

Models: Com-Tech 810 & 1610

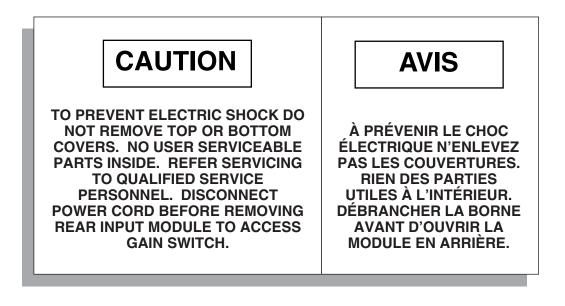
Some models may be exported under the name Amcron.®

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The information furnished in this manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact the Crown Technical Support Group.

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WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

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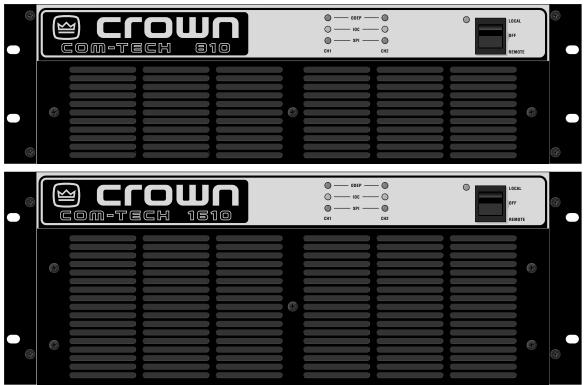


Figure 1.1 Com-Tech 810 and 1610 front panels

1 Introduction

This manual contains service information for the Crown *Com-Tech–10 Series* power amplifiers. It is designed to be used in conjunction with the *Com-Tech* Reference Manual. Some important information is, however, duplicated in this Service Manual in case the Reference Manual is not readily available.

NOTE: THE INFORMATION IN THIS MANUAL IS IN-TENDED FOR USE BY AN EXPERIENCED TECHNI-CIAN ONLY!

1.1 The Com-Tech Series

The *Com-Tech* series is a complete family of amplifiers with a wide range of power output capabilities. *Com-Tech* amplifiers can directly drive "constant voltage" lines, so you can avoid the expense, distortion and insertion loss associated with step-up transformers for distributed loudspeaker systems. *Com-Tech* amplifiers also utilize Crown's patented *ODEP®* protection circuitry, which keeps the amplifier working under severe conditions that would shut down a lesser amplifier. All *Com-Tech* amplifiers feature Crown's exclusive *P.I.P.®* (Programmable Input Processor) expansion system. The *P.I.P.* expansion system makes it easy to tailor your amplifier to a specific application or to add future technology as it develops.

1.2 Warranty

Each Reference Manual contains basic policies as related to the customer. For further assistance please contact the Crown Technical Support Group at:

> Crown International, Inc. Mailing: PO Box 1000 Elkhart, IN 46515-1000 or Shipping: Plant 2 S.W. 1718 W. Mishawaka Rd. Elkhart, IN 46517

Toll Free: (800) 342-6939 Phone: (219) 294-8200 FAX: (219) 294-8301 Web: www.crownaudio.com This page intentionally left blank.

2 Specifications

The following specifications apply to all models in Dual mode with 8-ohm loads and an input sensitivity of 26 dB unless otherwise specified.

MAP at 1 kHz: This term refers to maximum average power in watts at 1 kHz with 0.1% THD.

Full Bandwidth Power: This term refers to maximum average power in watts from 20 Hz to 20 kHz with 0.1% THD.

120 VAC, 60 Hz Units: These North American units have dedicated transformers for 120 VAC, 60 Hz power mains.

100/120 VAC Units: These units have two-tap transformers that accept a 50- or 60-Hz AC line, and can be configured for 100 or 120 VAC mains.

220/240 VAC Units: These units have two-tap transformers that accept a 50- or 60-Hz AC line, and can be configured for 220 or 240 VAC mains.

2.1 Performance

Frequency Response: ±0.1 dB from 20 Hz to 20 kHz at 1 Watt (See Figure 2.1).

Phase Response: ±10 degrees from 10 Hz to 20 kHz at 1 Watt (See Figure 2.4).

Hum and Noise: A-weighted, 105 dB below full bandwidth power; No weighting, 100 dB below full bandwidth power.

Total Harmonic Distortion (THD): Less than 0.05% at full power from 20 Hz to 1 kHz increasing linearly to 0.1% at 20 kHz.

Intermodulation Distortion (IMD): (60 Hz and 7 kHz 4:1) Less than 0.05% from -35 dB to full power bandwidth.

Damping Factor: Greater than 1000 from 10 Hz to 400 Hz (See Figure 2.2).

Crosstalk: Greater than 70 dB down at 10 kHz. (See Figure 2.5).

Common Mode Rejection Ration (CMRR): Better than 70 dB.

Slew Rate: Greater than 17 volts per microsecond.

Voltage Gain: (At the maximum level setting) $20:1 \pm 3\%$ or 26 dB ± 0.25 dB. $90:1 \pm 12\%$ or 39 dB ± 1 dB with the input sensitivity set to 0.775 volts for 70 volt output. The following

voltage gain specifications are for units with the input sensitivity set to 0.775 volts for 8/4 ohm output:

> Com-Tech <u>810</u>: 64:1 \pm 12% or 36 dB \pm 1 dB. Com-Tech <u>1610</u>: 85:1 \pm 12% or 39 dB \pm 1 dB.

2.2 Power

Output Power: See the minimum Guaranteed Power table in Figures 2.6-7 for the output power specifications under a variety of conditions.

It is extremely important to supply the amplifier with adequate AC power. Power amplifiers cannot add power-they need the required voltage and current to deliver the undistorted rated wattages you expect.

Load Impedance: Safe with all types of loads. With 8/4 ohm output, all *Com-Techs* are rated for 4 to 8 ohms in Dual mode, 8 to 16 ohms in Bridge-Mono mode, and 2 to 4 ohms in Parallel-Mono mode. With a 70 volt output, rated loads vary among the different models for each dual/mono mode (see the power matrices that follow).

AC Power Requirements: All units require less than 90 watts at idle. See Section 3 for detailed information on AC power requirements and thermal dissipation.

Low-Voltage Power Supply: ± 15 VDC regulated supplies are provided by a winding on the power transformer.

Power Cord: An appropriate AC line cord is provided with a nominal cable length of 3 feet.

2.3 Controls

Enable: A front panel rocker switch used to turn the amplifier on and off, and to enable the remote feature.

Input Attenuation: A detented 21-position back panel Input Attenuation control for each channel.

Output Mode: A back panel switch for each channel used to select 8/4-ohm or 70-volt output.

Dual/Mono: A 3-position back panel switch used to select Dual, Bridge-Mono or Parallel-Mono operation.

Reset: A back panel push button used to reset the amplifier's AC mains breaker.

Input Sensitivity: A three-position switch inside the *P.I.P.* compartment used to select an input sensitivity for both channels: 0.775 volts for MAP at 1 kHz in 8/4 ohm mode, 0.775 volts for MAP at 1 kHz in 70-volt mode, or a voltage gain of 26 dB.

2.4 Indicators

Enable: This amber indicator shows the on/off status of the unit's low-voltage power supply and the activation of the energy-saving mode.

SPI (Signal Presence Indicator): Each channel has a green indicator that flashes to show audio output.

IOC (Input/Output Comparator): Each channel has a yellow indicator that flashes if the output waveform differs from the input waveform by 0.05% or more. The LEDs act as sensitive distortion indicators to provide proof of distortion-free performance.

ODEP(Output Device Emulation Protection): Each channel has a green multifunction indicator that shows the channel's reserve energy status. Normally, the LEDs are brightly lit to show that reserve energy is available. In the rare event that a channel has no reserve, its indicator will dim in proportion to ODEP limiting.

2.5 Input/Output

Input Connector: A barrier block on the standard PIP2-BB with three-terminal balanced connections for input to each channel and test points for a DVM.

Input Impedance: Nominally 20 K ohms, balanced. Nominally 10 K ohms, unbalanced.

Input Sensitivity: Settings include 0.775 volts for 8/4-ohm output, 0.775 volts for 70-volt output, and a voltage gain of 26 dB.

Output Connector: A back panel barrier block with two-terminal connections for each output channel.

Output Impedance: Less than 10 milliohms in series with less than 2 microhenries (see Figure 2.3).

DC Output Offset: Less than ±10 millivolts.

RSVP: An RJ11 modular connector on the back panel interfaces with an RSVP to provide remote control of amplifier power on/off functions.

2.6 Output Signal

Dual: Unbalanced, two-channel.

Bridge-Mono: Balanced, single-channel. Channel 1 controls are active; Channel 2 should be turned down. Channel 1 red terminal is positive, referenced to ground, when the input is positive.

Parallel-Mono: Unbalanced, single-channel. Channel 1 controls are active; Channel 2 is bypassed.

2.7 Protection

Com-Tech amplifiers are protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature, chain destruction phenomena, input overload damage and high-frequency blowups. It also protects loudspeakers from input/output DC and turn-on/turn-off transients.

If unreasonable operating conditions occur, the patented *ODEP* circuitry proportionally limits the drive level to protect the output devices, particularly in the case of elevated temperature. Transformer overheating results in a temporary shutdown of both channels. The transformer automatically resets itself when it has cooled to a safe temperature. Controlled by slew rate, voltage amplifiers protect against RF burnouts, and input overload protection is provided by current-limiting resistance at the input.

Turn On: The four-second turn on delay prevents dangerous turn-on transients. "Soft-start" circuitry provides low inrush so power sequencers are rarely needed with multiple units. *Note: The turn-on delay time may be changed. Contact Crown's Technical Support Group for details.*

Circuit Breaker: Circuit breaker current ratings vary based on the *Com-Tech* model and AC mains voltage.

All 100/120 VAC Units: *Com-Tech<u>810</u>*: 20 amperes. *Com-Tech*1610:30 amperes.

All 220/240 VAC Units: *Com-Tech<u>810</u>*: 10 amperes. *Com-Tech<u>1610</u>: 20 amperes.*

2.8 Construction

Durable black powdercoat finish on the steel chassis, front panel Lexan overlay, and specially-designed flow-through ventilation from front to side panels.

Cooling: Internal heat exchangers with on-demand forced air cooling (fan is optional for the North American *ComTech 210*).

Dimensions: 19 inch (48.3 cm) standard rack mount width (EIA RS-310-B), 16 inch (40.6 cm) depth behind mounting surface, and 0.25 inches (0.6 cm) infront of mounting surface. Amplifier height varies among the available models and with different AC power requirements (see Figure 2.10).

Height A: 3.5 inches (8.9 cm) Models: Com-Tech 210 (All) Com-Tech 410 (North American)

Rev. 0

Height B:	5.25 inches (13.3 cm)
Models:	<i>Com-Tech</i> 410 (100/120 VAC, 50/60 Hz)
	<i>Com-Tech</i> 410 (220/240 VAC, 50/60 Hz)
	Com-Tech810 (All)
Height C:	7 inches (17.8 cm)

Model: Com-Tech 1610 (All)

Approximate Weight: Center of gravity is 6 inches (15.2 cm) behind the front mounting surface.

120 VAC, 60 Hz North American Units: *Com-Tech <u>810</u>*: 47 pounds, 4 ounces (21.5 kg) net; 50 pounds, 8 ounces (22.9 kg) shipping weight.

Com-Tech<u>1610</u>:57 pounds, 14 ounces (26.3 kg) net; 66 pounds, 10 ounces (30.2 kg) shipping weight.

100/120 VAC, 50/60 Hz Units: Com-Tech 810: 45 pounds

Com-Tech <u>810</u>: 45 pounds, 1 ounce (20.5 kg) net; 49 pounds, 10 ounces (22.5 kg) shipping weight.

Com-Tech <u>1610</u>: 54 pounds, 11 ounces (24.8 kg) net; 64 pounds, 3 ounces (29.1 kg) shipping weight.

220-240 VAC, 50/60 Hz Units: *Com-Tech <u>810</u>*: 45 pounds, 4 ounces (20.5 kg) net; 49 pounds, 13 ounces (22.6 kg) shipping weight.

Com-Tech <u>1610</u>: 55 pounds, 2 ounces (25.0 kg) net; 64 pounds, 10 ounces (29.3 kg) shipping weight.

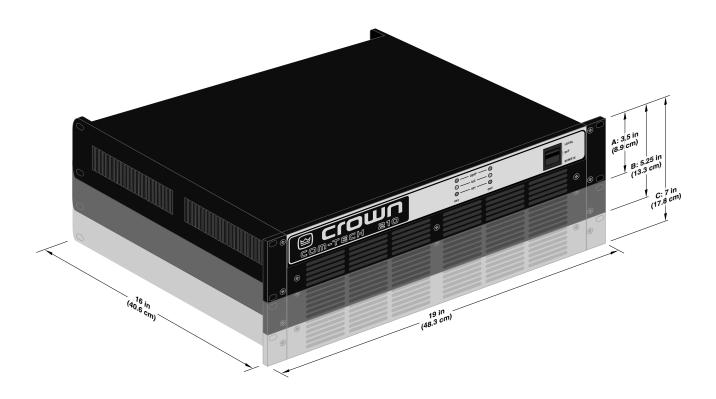


Figure 2.10 Mounting Dimensions

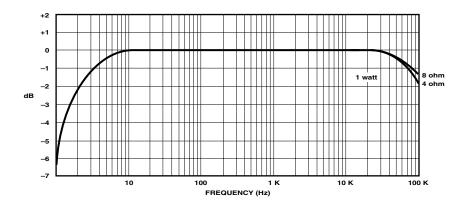


Figure 2.1 Typical Frequency Response

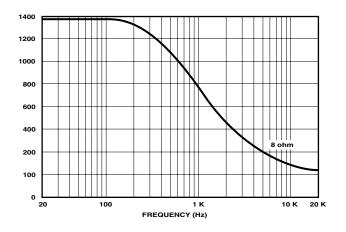


Figure 2.2 Typical Damping Factor

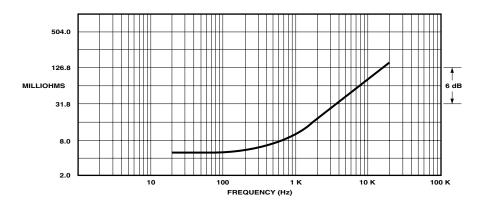
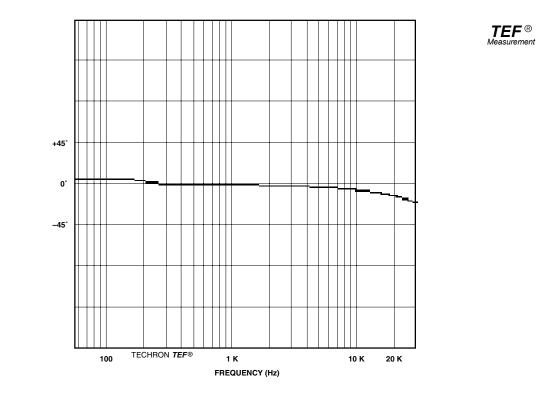
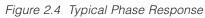


Figure 2.3 Typical Output Impedance

TEF® Measurement





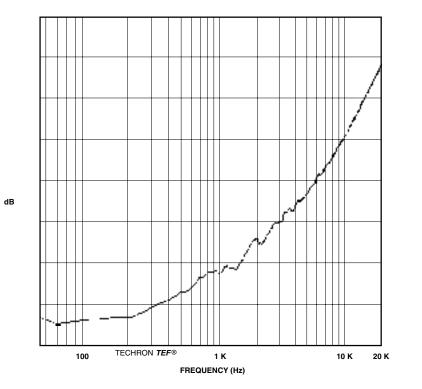


Figure 2.5 Typical Crosstalk

Crown specifications are guaranteed for three years.

In an effort to provide you with as much information as possible about the high power-producing capabilities of your amplifier, we have created the following power matrices.

Minimum Guaranteed Power Specifications

Crown's minimum power specifications represent the absolute smallest amount of output power you can expect from your amplifier when it is driven to full output under the given conditions. Some spaces in each matrix may be left blank because the same guarantee is not provided for those conditions—however, your amplifier will perform well under <u>all</u> conditions listed in each matrix.

When measuring power, 0.1% THD appears to be the industry standard for distortion. Two of the maximum average power specifications shown in each minimum power matrix are measured at 0.1% THD so you can easily compare Crown specifications to those of other manufacturers. But this high level of distortion actually allows for some clipping which is undesirable. Because of this, a maximum average power specification at 0.05% THD is included in each minimum power matrix which represents non-clipped conditions. Although most manufacturers do not give you power specifications at 0.05% THD, we encourage them to provide these specifications so you will have a more realistic representation of the way amplifiers should be used in the real world—without a clipped output signal.

Many manufacturers publish power specs with a tolerance of ±1 dB or worse. This means their amplifier can deviate more than 20% in output! A 100 watt amplifier would meet their specification if it only produced 79.4 watts. Other manufacturers qualify their specs by saying

	Com-Tech 810 – Minimum Guaranteed Power (Watts)									
AC Mains	Dual/Mono Mode	Load in Ohms (Constant Voltage)	Open Term Maximum Average At 0.1% THD (See note 1) At 0.1% THD (See note 2) At 0.05% THD (See note 3)			FTC Continuous Average At 0.1% THD (See note 4)				
1		Coi (Coi	1 kHz	20Hz-20kHz	1 kHz	1 kHz	20Hz-20kHz			
	Dual	4	490	460	480	470	455			
	(both channels	8	305	295	300	300	290			
z	driven)	12.5 (70V)	460	455	455	450	445			
60 Hz	.	8	975	935	965	950	905			
120 VAC, 60	Bridge-Mono (balanced output)	16	610	600	605	605	600			
120 V	,	25 (140V)	920	905	905	905	880			
-		2	965		950	950				
	Parallel-Mono	4	610		600	605				
		6.25 (70V)	915		905	910				
	Dual	4	460	440	460	445	425			
	(both channels	8	300	290	295	295	290			
0 Hz	driven)	12.5 (70V)	425	415	420	410	400			
50/6	Duidus Maus	8	925	885	915	890	840			
VAC,	Bridge-Mono (balanced output)	16	600	580	595	595	575			
100/120 VAC, 50/60 Hz		25 (140V)	855	825	850	830	800			
100/		2	925		920	895				
	Parallel-Mono	4	600		595	595				
		6.25 (70V)	855		845	830				
	Dual	4	485	470	485	465	450			
	(both channels driven)	8	310	305	310	310	300			
O Hz	unvenj	12.5 (70V)	440	430	435	425	420			
50/6	Duidus Maus	8	965	920	955	930	875			
VAC,	Bridge-Mono (balanced output)	16	620	605	615	615	600			
220/240 VAC, 50/60 Hz		25 (140V)	885	855	875	865	840			
220/		2	940		930	920				
	Parallel-Mono	4	615		610	600				
		6.25 (70V)	875		870	855				

Figure 2.6 Com-Tech 810 Minimum Power Matrix

they are "typical," "subject to manufacturing tolerances," "single channel driven" or that they are specified with "fuses bypassed." Each of these statements effectively removes any performance guarantee. In fact, some manufacturers use these tactics to generate large power numbers, and they don't even print a disclaimer. We take a different approach at Crown—our amplifiers are *guaranteed* to meet or exceed their specifications for three years. Further, because our published specs are set below our "in-house" measurements, you can expect <u>every Crown amplifier to meet or exceed</u> its published minimum power <u>specs</u>. We believe you should get what you pay for.

Minimum Power Notes:

All minimum power specifications are based on 0.5% regulated AC mains with THD of less than 1.0% and an ambient room temperature of 70° F (21° C). Standard EIA power (RS-490) is not shown here because it is identical to FTC Continuous Average Power.

- A 1 kHz sine wave is presented to the amplifier and the output monitored for nonlinear distortion. The level is increased until THD reaches 0.1%. At this point, average power per channel is reported.
- A sine wave is presented to the amplifier over the range from 20 Hz to 20 kHz and the output monitored for nonlinear distortion. The level at each frequency is increased until THD reaches 0.1%. At this point, average power per channel is reported.
- A 1 kHz sine wave is presented to the amplifier and the output monitored for nonlinear distortion. The level is increased until THD reaches 0.05%. At this point, average power per channel is reported.
- 4. Continuous power in the context of Federal Trade Commission testing is understood to be a minimum of five minutes of operation. Harmonic distortion is measured as the RMS sum total and given as a percentage of the fundamental output voltage. This applies for all wattages greater than 0.25 watts.

	Com-Tech 1610 – Minimum Guaranteed Power (Watts)									
AC Mains	Dual/Mono Mode	Load in Ohms (Constant Voltage)	At 0.1% THD At 0.1% THD At 0.05% THD (See note 1) (See note 2) (See note 3)			FTC Continuous Average At 0.1% THD (See note 4)				
A		Los (Cor	1 kHz	20Hz-20kHz	1 kHz	1 kHz	20Hz-20kHz			
	Dual	4	870	810	860	850				
	(both channels	8	540	520	535	540	510			
	driven)	6.25 (70V)	960	910	955	960				
120 VAC, 60 Hz		8	1745	1595	1725	1700				
AC, (Bridge-Mono (balanced output)	16	1080	1040	1070	1075	1040			
20 V	· · · /	12.5 (140V)	1805	1725	1795	1770				
		2	1745		1720	1690				
	Parallel-Mono	4	1080		1070	1075				
		3.13 (70V)	1780		1760	1745				
	Dual	4	815	775	805					
	(both channels	8	535	515	530	530	510			
100/120 VAC, 50/60 Hz	driven)	6.25 (70V)	860	830	850	815				
50/6		8	1625	1545	1615					
IAC,	Bridge-Mono (balanced output)	16	1070	1035	1060	1055	1020			
120 \	· · · /	12.5 (140V)	1700	1640	1695	1625				
100/		2	1660		1640					
	Parallel-Mono	4	1080		1070	1060				
		3.13 (70V)	1700		1690	1620				
	Dual	4	840	785	840					
	(both channels	8	545	525	540	540	505			
ZH 0	driven)	6.25 (70V)	875	755	870	850				
50/6		8	1675	1550	1665					
IAC,	(balanced output)	16	1090	910	1075	1070	900			
220/240 VAC, 50/6		12.5 (140V)	1755	1315	1745	1710				
220/2		2	1650		1635					
	Parallel-Mono	4	1075		1065	1065				
		3.13 (70V)	1745		1735	1715				

Figure 2.7 Com-Tech 1610 Minimum Power Matrix

Maximum Power Specifications

Crown's maximum power specifications represent the largest amount of output power you can expect from your amplifier when it is driven to full output under the given conditions. These specifications can be used to prevent loudspeaker and hearing damage.

The maximum power matrices include specifications for single cycle and 40-millisecond burst sine waves. Burst signals act like large transient peaks that are present in common source signals. Loudspeakers can respond to a single cycle burst, so the single cycle burst specifications should be used to help you protect your loudspeakers. In contrast, a 40 millisecond burst represents the typical response time of the human ear. Your ear will not respond to the entire dynamic change of a burst that lasts less than 40 milliseconds.

The burst power specifications are provided at 0.05% THD which is a practical low distortion condition. Operating the amplifier at levels higher than 0.05% THD can result in output power levels that are higher than those listed in the maximum power matrices.

	Com-Tech 810 – Maximum Power (Watts)											
AC Mains	Dual/Mono Mode	Load in Ohms (Constant Voltage)	Single Cycle Tone Burst O true to the stand 0.05% THD C true to th					40 Millisecond Tone Burst At 0.05% THD (See note 2)				
		(Co	20 Hz	50 Hz	1 kHz	7 kHz	50 Hz	1 kHz	7 kHz			
	Dual	4	515	575	695	690	545	470	495			
	(both channels	8	320	340	385	375	320	300	310			
2	driven)	12.5 (70V)	480	530	590	575	480	455	475			
60 H	D 11	8	1010	1120	1405	1385	1060	945	995			
IAC,	Bridge-Mono (balanced output)	16	640	680	770	755	650	595	620			
120 VAC, 60 Hz		25 (140V)	980	1045	1185	1145	960	910	955			
		2	1060	1160	1390	1380	1100	950	985			
	Parallel-Mono	4	645	685	765	755	650	590	615			
		6.25 (70V)	975	1045	1170	1135	985	910	945			
	Dual	4	460	605	750	730	555	470	490			
	(both channels	8	230	295	375	370	275	235	245			
50/60 Hz		12.5 (70V)	475	545	610	595	510	470	490			
, 50/	D 11	8	915	1195	1500	1480	1110	935	980			
100/120 VAC,	Bridge-Mono (balanced output)	16	600	705	810	790	665	600	630			
/120	,	25 (140V)	920	1085	1230	1190	990	910	955			
100		2	900	1195	1485	1450	1075	920	960			
	Parallel-Mono	4	600	700	805	780	660	600	625			
		6.25 (70V)	915	1070	1210	1185	975	905	945			
	Dual	4	475	610	755	740	570	485	500			
	(both channels	8	305	360	405	395	340	305	320			
50/60 Hz	driven)	12.5 (70V)	475	545	615	590	505	475	490			
50/		8	930	1190	1530	1470	1095	945	985			
VAC,	Bridge-Mono (balanced output)	16	605	705	815	785	675	605	635			
220/240 VAC,		25 (140V)	920	1085	1225	1180	980	910	945			
220)		2	910	1185	1475	1415	1085	920	955			
	Parallel-Mono	4	600	710	790	770	665	595	620			
		6.25 (70V)	915	1080	1225	1175	985	910	940			

Maximum Power Notes:

All maximum power specifications are based on 0.5% regulated AC mains with THD of less than 1.0% and an ambient room temperature of 70° F (21° C). Although it is an unusual condition, your amplifier can function well with AC mains voltages up to 10% over the specified line voltage. With overvoltage conditions, your amplifier may be capable of delivering instantaneous power levels up to 20% greater than the specifications in the matrix.

- A single cycle sine wave is presented to the amplifier and monitored for nonlinear distortion. The average power during the burst is reported. Loudspeakers must be able to withstand this level if they are to be safely used with this amplifier.
- 2. A 40 millisecond sine wave burst (10 percent duty cycle) is presented to the amplifier and monitored for nonlinear distortion. Average power during the burst is reported. This power level is a measurement of the amplifier's maximum transient power that can be perceived by the human ear.

Figure 2.8 Com-Tech 810 Maximum Power Matrix

	Com-Tech 1610 – Maximum Power (Watts)										
AC Mains	Dual/Mono Mode	Load in Ohms Constant Voltage)	Single Cycle Tone Burst At less than 0.05% THD (See note 1)					40 Millisecond Tone Burst At 0.05% THD (See note 2)			
A		Los (Cor	20 Hz	50 Hz	1 kHz	7 kHz	50 Hz	1 kHz	7 kHz		
	Dual	4	780	1000	1245	1215	915	840	870		
	(both channels	8	525	600	670	655	555	525	545		
2	driven)	6.25 (70V)	950	1035	1205	1170	925	875	905		
60 H		8	1600	1995	2480	2420	1875	1670	1745		
120 VAC, 60 Hz	Bridge-Mono (balanced output)	16	1050	1185	1330	1285	1145	1050	1090		
20 V	、	12.5 (140V)	1770	1980	2315	2225	1785	1675	1735		
		2	1590	1985	2465	2390	1830	1665	1715		
	Parallel-Mono	4	1140	1170	1330	1300	1130	1045	1080		
		3.13 (70V)	1895	2015	2375	2280	1880	1715	1780		
	Dual	4	820	1060	1370	1335	1005	835	870		
	(both channels	8	555	655	750	720	610	550	570		
50/60 Hz	driven)	6.25 (70V)	955	1100	1295	1255	1025	895	930		
		8	1635	2095	2700	2680	1930	1650	1735		
VAC,	Bridge-Mono (balanced output)	16	1090	1285	1475	1440	1200	1080	1130		
100/120 VAC,		12.5 (140V)	1895	2165	2550	2490	1985	1760	1825		
100		2	1640	2105	2715	2630	1955	1655	1725		
	Parallel-Mono	4	1090	1300	1470	1425	1195	1080	1120		
		3.13 (70V)	1845	2110	2530	2430	1965	1745	1810		
	Dual	4	800	1060	1295	1245	955	820	850		
	(both channels	8	535	630	700	685	590	530	550		
60 Hz	driven)	6.25 (70V)	885	1025	1210	1165	960	845	875		
, 50/		8	1600	2060	2580	2520	1915	1630	1695		
VAC	Bridge-Mono (balanced output)	16	1055	1225	1410	1365	1155	1050	1095		
220/240 VAC, 50/		12.5 (140V)	1800	2115	2475	2395	1935	1720	1800		
220		2	1615	2100	2585	2525	1920	1635	1700		
	Parallel-Mono	4	1065	1230	1415	1380	1175	1055	1095		
		3.13 (70V)	1855	2080	2450	2315	1940	1720	1785		

Figure 2.9 Com-Tech 1610 Maximum Power Matrix

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3 AC Power Draw and Thermal Dissipation

"Soft-Start" inrush current limiting protects the house circuit breaker when several amps are turned on simultaneously.

This section provides detailed information about the amount of power and current drawn from the AC mains by the *Com-Tech* amplifiers and the amount of heat produced under various conditions. The calculations presented here are intended to provide a realistic and reliable depiction of the amplifier. The following assumptions or approximations were made:

- The amplifier's available channels are loaded, and full power is being delivered.
- Amplifier efficiency at standard 1 kHz power is estimated to be 65%.
- In 8/4 ohm mode, typical quiescent power draw is 55 watts for the *Com-Tech 810* and 70 watts for the *Com-Tech 1610*.
- In 70 volt mode, typical quiescent power draw is 90 watts for the *Com-Tech 810* and *1610*.
- When running at full speed, typical power draw for the internal fan is 11 watts for the *Com-Tech 810* and 17 watts for the *Com-Tech 1610*.
- Quiescent thermal dissipation is related .
- The estimated duty cycles take into account the typical crest factor for each type of source material.
- Duty cycle of pink noise is 50%.
- Duty cycle of highly compressed rock 'n' roll midrange is 40%.
- Duty cycle of rock 'n' roll is 30%.

- Duty cycle of background music is 20%.
- Duty cycle of continuous speech is 10%.
- Duty cycle of infrequent paging is 1%.

Here are the equations used to calculate the data presented in Figures 3.1 and 3.2:

The value used for quiescent power draw includes both the amplifier's quiescent power draw for the selected output mode <u>and</u> the power drawn by the fan if one is installed (these values are listed in the previous column). The following equation converts power draw in watts to current draw in amperes:

The power factor of 0.83 is needed to compensate for the difference in phase between the AC mains voltage and current. The following equation is used to calculate thermal dissipation:

The constant 0.35 is inefficiency (1.00–0.65) and the factor 3.415 converts watts to btu/hr. Thermal dissipation in btu is divided by the constant 3.968 to get kcal. If you plan to measure output power under real-world conditions, the following equation may also be helpful:

Com-Tech 810

		L O A D													
	8 Ohm Dual / 16 Ohm Bridge-Mono / 4 Ohm Parallel-Mono					4 Ohm Dua	l / 8 Ohm Br	idge-Mono /	2 Ohm Par	allel-Mono	70 V				
Duty	AC Mains Power Current Draw (Amps) Thermal Dissipation		AC Mains Power	Current Dr	aw (Amps)	Thermal D	Dissipation	AC Mains Power Current Draw (Amps)		Thermal Dissipation					
Cycle	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr
50%	535	6.4	2.9	785	200	820	9.9	4.5	1125	285	810	9.7	4.4	1190	300
40%	440	5.3	2.4	670	170	670	8.0	3.7	945	240	670	8.0	3.6	1020	260
30%	350	4.2	1.9	560	140	520	6.2	2.8	765	195	525	6.3	2.9	850	215
20%	255	3.0	1.4	450	115	370	4.4	2.0	585	150	385	4.6	2.1	680	170
10%	160	1.9	0.9	335	85	220	2.6	1.2	405	100	245	2.9	1.3	510	130

Figure 3.1 Com-Tech 810 Power Draw, Current Draw and Thermal Dissipation at Various Duty Cycles Com-Tech 1610

		L O A D													
	8 Ohm Dua	/ 16 Ohm B	ridge-Mono	/ 4 Ohm Par	allel-Mono	4 Ohm Dual / 8 Ohm Bridge-Mono / 2 Ohm Parallel-Mono				allel-Mono	70 V				
Duty	AC Mains Power	Current Dr	aw (Amps)	Thermal D	issipation	AC Mains Power	Current Dr	aw (Amps)	Thermal D	Dissipation	AC Mains Power	Current Dr	raw (Amps)	Thermal D	lissipation
Cycle	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr	Draw (Watts)	100-120 V	220-240 V	btu/hr	kcal/hr
50%	920	11.1	5.0	1300	330	1435	17.3	7.8	1915	485	1590	19.1	8.7	2140	540
40%	755	9.1	4.1	1100	280	1165	14.0	6.4	1590	400	1295	15.6	7.1	1790	450
30%	590	7.1	3.2	905	230	895	10.8	4.9	1270	320	1000	12.0	5.5	1435	365
20%	425	5.1	2.3	705	180	630	7.6	3.4	950	240	700	8.4	3.8	1085	275
10%	260	3.1	1.4	510	130	360	4.3	2.0	630	160	405	4.9	2.2	730	185

Figure 3.2 Com-Tech 1610 Power Draw, Current Draw and Thermal Dissipation at Various Duty Cycles

4 AC Mains Voltage Conversion

4.1 Com-Tech Voltage Conversion

Due to Crown's distribution of *Com-Tech* amplifiers all over the world, not all of these amplifiers are built with the same power supply components. Refer to the following text to see if your unit is compatible with the voltage you need. See figure 4.1 for Control PCA layout.

4.1.1 120 VAC, 60 Hz Units

These North American units have dedicated transformers for 120 VAC, 60 Hz power mains. These units are not convertable for use at any other voltage or frequency.

4.1.2 100/120 VAC Export Units

These units have two-tap transformers that accept a 50 or 60 Hz AC line, and can be configured for 100 or 120 VAC. To convert from one voltage to another, switch

the BLK/RED and BLK/WHT wires. Refer to the following chart.

Control Board Wiring							
Line	e Wiring Connections						
Voltage	BLK/RED	BLK/WHT					
100V	W9	W2					
120V	W2	W9					

4.1.3 220/240 VAC Export Units

These units have two-tap transformers that accept a 50 or 60 Hz line, and can be configured for 220 or 240 VAC. To convert from one voltage to another, switch the BLK/YEL and BLK/WHT wires. Refer to the following chart.

Control Board Wiring							
Line Wiring Connections							
Voltage	BLK/YEL	BLK/WHT					
220V	W9	W2					
240V	W2	W9					

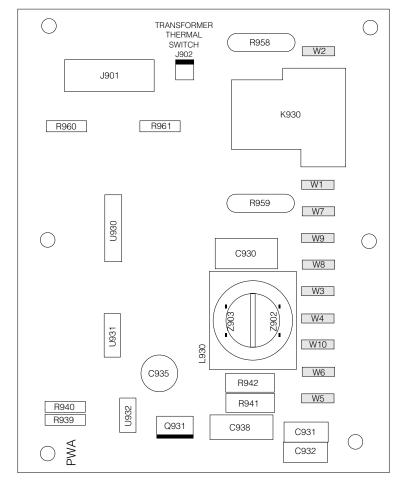


Figure 4.1 Control PCA Layout

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5 Theory

5.1 Overview

Com-Tech amplifiers incorporate several new technological advancements, including real-time computer simulation, low-stress output stages, an advanced heat sink embodiment and the Programmable Input Processor (*P.I.P.*) expansion system.

Custom circuitry is incorporated to limit temperature and current to safe levels, making it highly reliable and tolerant of faults. Unlike many lesser amplifiers, it can operate at its voltage and current limits without self-destructing.

Real-time computer simulation is used to create an analog of the junction temperature of the output transistors (hereafter referred to as the output devices). Current is limited only when the device temperature becomes excessive (and by the minimum amount required). This patented approach, called Output Device Emulation Protection (or *ODEP*) maximizes the available output power and protects against overheating—the major cause of device failure.

The amplifier is protected from all common hazards that plague high-power amplifiers, including shorted, open or mismatched loads; overloaded power supplies; excessive temperature and chain-destruction phenomenon; input overload; high-frequency blowups, internal faults; and input and output DC.

The four-quadrant topology used in a *Com-Tech* amplifier's output stages is called the *grounded bridge*. This patented topology makes full use of the power supply, providing peak-to-peak voltages to the load that are twice the voltage seen by the output devices.

As its name suggests, the *grounded bridge* topology is referenced to ground. Composite devices are constructed to function as large NPN and PNP devices to handle currents which exceed the limits of available devices. Each output stage has two composite NPN devices and two composite PNP devices.

The devices connected to the load are referred to as "high-side NPN and PNP" and the devices connected to ground are referred to as "low-side NPN and PNP." Positive current is delivered to the load by increasing conductance simultaneously in the high-side NPN and low-side PNP stage, while synchronously decreasing conductance of the high-side PNP and low-side NPN. The two channels may be used together to double the voltage (Bridge-Mono) or current (Parallel-Mono) presented to the load. This feature gives you flexibility to maximize power available to the load.

A wide bandwidth, multiloop design is used for state-ofthe-art compensation. This produces ideal behavior and results in ultra-low distortion values.

Aluminum extrusions have been widely used for heat sinks in power amplifiers due to their low cost and reasonable performance. However, measured on a wattsper-pound or watts-per-volume basis, the extrusion technology doesn't perform nearly as well as the heat exchangers developed for *Com-Tech* amplifiers.

Our heat exchangers are fabricated from custom convoluted fin stock that provides an extremely high ratio of area to volume, and area to weight. All power devices are mounted directly to massive heat spreaders that are electrically at the Vcc potential. Electrifying the heat spreaders improves thermal performance by eliminating an insulating interface underneath each power device. The chassis itself is used as part of the thermal circuit to maximize utilization of the available cooling resources.

5.2 Front End Operation

The front end is comprised of three stages: Balanced Gain Stage (BGS), Variable Gain Stage (VGS), and the Error Amp. Figure 5.1 shows a simplified diagram of a typical front end with voltage amplification stages.

5.2.1 Balanced Gain Stage (BGS)

Input to the amplifier is balanced. The shield is isolated from chassis ground by an RC network to interrupt ground loops. The non-inverting (+) side of the balanced input is fed to the non-inverting input of the first op-amp stage. The inverting (-) side of the balanced input is fed to the inverting input of the first opamp stage. A potentiometer (R103) is provided for common mode rejection adjustment. Electrically, the BGS is at unity gain. (From an audio perspective, however, this stage actually provides +6dB gain if a fully balanced signal is placed on its input.) The BGS is a noninverting stage. Its output is delivered to the Variable Gain Stage.

5.2.2 Variable Gain Stage (VGS)

From the output of the BGS, the signal goes to the VGS, where gain is determined by the position of the Sensitivity Switch, and level is determined by the level control. VGS is an inverting stage with the input being

fed to its op-amp stage. Because gain after this stage is fixed at 26 dB (factor of 20), greater amplifier sensitivity is achieved by controlling the ratio of feedback to input resistance. The Sensitivity Switch sets the input impedance to this stage and varies the gain such that the overall amplifier gain is 26 dB, or is adjusted appropriately for 0.775V input to attain rated output.

5.2.3 Error Amp

The inverted output from the VGS is fed to the noninverting input of the Error Amp op-amp stage through an AC coupling capacitor (C107) and input resistor (R113). Amplifier output is fed back via the negative feedback (NFb) loop resistor (R114). The ratio of feedback resistor to input resistor fixes gain from the Error Amp input to the output of the amplifier at 26 dB. Diodes prevent overdriving the Error Amp. Because the Error Amp amplifies the difference between input and output signals, any difference in the two waveforms will produce a near open loop gain condition, which in turn results in high peak output voltage. The output of the Error Amp, called the Error Signal (ES) drives the Voltage Translators.

5.3 Voltage Amplification

The Voltage Translator stage separates the output of the Error Amp into balanced positive and negative drive voltages for the Last Voltage Amplifiers (LVAs), translating the signal from ground referenced $\pm 15V$ to $\pm Vcc$ reference. LVAs provide the main voltage amplification and drive the High Side output stages. Gain from Voltage Translator input to amplifier output is a factor of 25.2.

5.3.1 Voltage Translators

A voltage divider network splits the Error Signal (ES)

into positive and negative drive signals for the balanced voltage translator stage. These offset reference voltages drive the input to the Voltage Translator transistors (Q104/Q105). A nested NFb loop from the output of the amplifier mixes with the inverted signal riding on the offset references. This negative feedback fixes gain at the offset reference points (and the output of the Error Amp) at a factor of -25.2 with respect to the amplifier output. The Voltage Translators are arranged in a common base configuration for non-inverting voltage gain with equal gain. They shift the audio from the \pm 15V reference to VCC reference. Their outputs drive their respective LVA.

Also tied into the Voltage Translator inputs are the limiting transistors (Q102/Q103). These transistors steal drive as dictated by the *ODEP* circuitry (discussed later), or act as switches totally shunting audio to ground during the turn-on delay, or during a DC/LF or Fault protective action.

5.3.2 Last Voltage Amplifiers (LVAs)

The Voltage Translator stage channels the signal to the Last Voltage Amplifiers (LVAs) in a balanced configuration. The +LVA (Q106) and -LVA (Q109), with their push-pull effect through the Bias Servo, drive the fully complementary output stage. The LVAs are configured as common emitter amplifiers. This configuration provides sufficient voltage gain and inverts the audio. The polarity inversion is necessary to avoid an overall polarity inversion from input jack to output jack, and it allows the NFb loop to control Error Amp gain by feeding back to its non-inverting input (with its polarity opposite to the output of the VGS). With the added voltage swing provided by the LVAs, the signal then gains

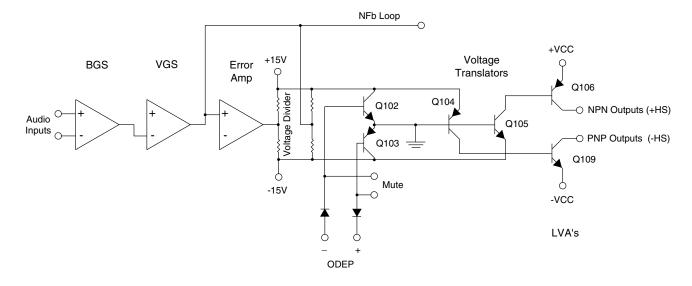


Figure 5.1 Typical Amplifier Front End and Voltage Amplification Stages.

current amplification through the Darlington emitter-follower output stage.

5.4 Grounded Bridge Topology

Figure 5.2 is a simplified example of the grounded bridge output topology. Grounded Bridge Topology consists of four quadrants of Darlington emitter-follower stages per channel: one NPN and one PNP on the High Side of the bridge (driving the load), and one NPN and one PNP on the Low Side of the bridge (controlling the ground reference for the rails). The output stages are biased to operate class AB+B, allowing for ultra low distortion in the signal zero-crossing region, as well as for high efficiency.

5.4.1 High Side (HS)

The High Side (HS) of the bridge operates much like a conventional bipolar push-pull output configuration. As the input drive voltage becomes more positive, the HS NPN conducts and delivers positive voltage to the load. Eventually the NPN devices reach full conduction and +Vcc is across the load. At this time the HS PNP is biased off. When the drive signal is negative going, the HS PNP conducts to deliver -Vcc to the load and the HS NPN stage is off.

The output of the +LVA drives the base of predriver device. Together, the predriver and driver form the first two parts of the three-deep Darlington. They are biased class AB. They provide output drive through the bias resistor, bypassing the output devices, at levels below about 100mW. An RLC network between the predriver and driver provide phase shift compensation and limit driver base current to safe levels. Output devices are biased class B, just below cutoff. At about 100mW output they switch on to conduct high current to the load. Together with predriver and driver, the output device provides an overall class AB+B output.

The negative half of the HS is almost identical to the positive half, except that the devices are PNP. One difference is that the PNP bias resistor is slightly greater in value so that the PNP output devices run closer to the cutoff level under static (no signal) conditions. This is because PNP devices require greater drive current.

HS bias is regulated by Q18, the Bias Servo. Q18 is a Vbe multiplier which maintains approximately 3.2V Vce under static conditions. The positive and negative halves of the HS output are in parallel with this 3.2V. With a full base-emitter on voltage drop across predrivers and drivers, the balance of voltage results in approximately .32V drop across the bias resistors in the positive half, and about .46V across the bias resistor in the negative half. Q18 conduction (and thus bias) is adjustable.

A diode string prevents excessive charge build up within the high conduction output devices when off. Flyback diodes shunt back-EMF pulses from reactive

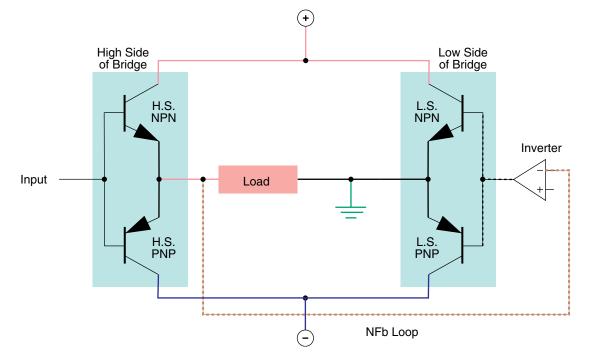


Figure 5.2 Crown's Patented Grounded Bridge Topology

loads to the power supply to protect output devices from dangerous reverse voltage levels. An output terminating circuit blocks RF on output lines from entering the amplifier through the amp's output connectors.

5.4.2 Low Side (LS)

The Low Side (LS) operates quite differently from the High Side. The power supply bridge rectifier is not ground referenced, nor is the secondary of the main transformer. In other words, the high voltage power supply floats with respect to ground, but ±Vcc remain constant with respect to each other. This allows the power supply to deliver +Vcc and -Vcc from the same bridge rectifier and filter as a total difference in potential, regardless of their voltages with respect to ground. The LS uses inverted feedback from the HS output to control the ground reference for the rails (±Vcc). Both LS quadrants are arranged in a three-deep Darlington and are biased AB+B in the same manner as the HS.

When the amplifier output swings positive, the audio is fed to an op-amp stage where it is inverted. This inverted signal is delivered directly to the bases of the positive (NPN) and negative (PNP) LS predrivers. The negative drive forces the LS PNP devices on (NPN off). As the PNP devices conduct, Vce of the PNP Darlington drops. With LS device emitters tied to ground, -Vcc is pulled toward ground reference. Since the power supply is not ground referenced (and the total voltage from +Vcc to -Vcc is constant) +Vcc is forced higher above ground potential. This continues until, at the positive amplifier output peak, -Vcc = 0Vand +Vcc equals the total power supply potential with a positive polarity. If, for example, the power supply produced a total of 70V from rail to rail (±35VDC measured from ground with no signal), the amplifier output would reach a positive peak of +70V.

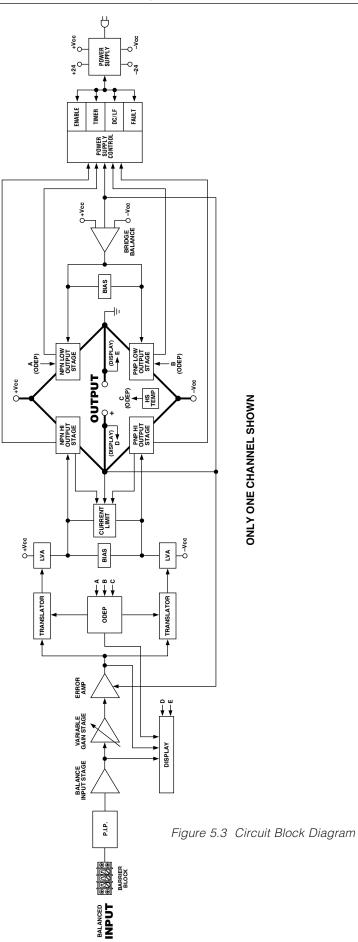
Conversely, during a negative swing of the HS output where HS PNP devices conduct, the op-amp would output a positive voltage forcing LS NPN devices to conduct. This would result in +Vcc swinging toward ground potential and -Vcc swinging further from ground potential. At the negative amplifier output peak, +Vcc = 0V and -Vcc equals the total power supply potential with a negative polarity. Using the same example as above, a 70V supply would allow a negative output peak of -70V. In summary, a power supply which produces a total of 70VDC rail to rail (or \pm 35VDC statically) is capable of producing 140V peak-to-peak at the amplifier output when the grounded bridge topology is used. The voltages used in this example are relatively close to the voltages of the PB-1/460CSL. The total effect is to deliver a peak to peak voltage to the speaker load which is twice the voltage produced by the power supply. Benefits include full utilization of the power supply (it conducts current during both halves of the output signal; conventional designs require two power supplies per channel, one positive and one negative), and never exposing any output device to more than half of the peak to peak output voltage (which does occur in conventional designs).

Low side bias is established by a diode string which also shunts built up charges on the output devices. Bias is adjustable via potentiometer. Flyback diodes perform the same function as the HS flybacks. The output of the LS is tied directly to chassis ground via ground strap.

5.5 Output Device Emulation Protection (*ODEP*)

To further protect the output stages, a specially developed *ODEP* circuit is used. It produces a complex analog output signal. This signal is proportional to the always changing safe-operating-area margin of the output transistors. The *ODEP* signal controls the Voltage Translator stage by removing drive that may exceed the safe-operating-area of the output stage.

ODEP senses output current by measuring the voltage dropped across LS emitter resistors. LS NPN current (negative amplifier output) and +Vcc are sensed, then multiplied to obtain a signal proportional to output power. Positive and negative ODEP voltages are adjustable via two potentiometers. Across ±ODEP is a thermal sense (current source). The thermal sense causes the differential between +ODEP and -ODEP to decrease as heatsink temperature increases. An increase in positive output voltage and current into a load will result in -ODEP voltage dropping; an increase in negative output voltage and current will cause + ODEP voltage to drop. A complex RC network between the ±ODEP circuitry is used to simulate the thermal barriers between the interior of the output device die (immeasurable by normal means) and the time delay from heat generation at the die until heat dissipates to the thermal sensor. The combined effects of thermal history and instantaneous dynamic power level result in an accurate simulation of the actual thermal condition of the output transistors.



5.6 Dual Operation

For simplicity, the discussion of Dual operation will refer to one channel only. Mono operation will be discussed in Sections 5.8 and 5.9 Please refer to the block diagram in Figure 5.3.

The signal at the *P.I.P.* barrier block passes directly into the balanced input stage. The balanced input stage causes balanced to single-ended conversion using a difference amplifier. Next the variable gain stage amplifies or attenuates the signal. The gain of this stage is set by the position of the input sensitivity switch and the back panel Input Attenuation control. The error amp amplifies the difference between the output signal and the input signal from the gain pot, and drives the voltage translator stage.

From the error amp, the voltage translator stage channels the signal to the Last Voltage Amplifiers (LVAs), depending on the signal polarity. The +LVA and the – LVA, with their push-pull effect through the bias servo, and drive the fully complementary output stage.

The bias servo is thermally coupled to the heat sink, and sets the quiescent bias current in the output stage to lower the distortion in the crossover region of the output signal.

With the voltage swing provided by the LVAs, the signal then gains current amplification through the Darlington emitter-follower output stage.

The bridge-balanced circuit receives a signal from the output of the amplifier and detects the difference between it and the signal at the Vcc supply. The bridgebalanced circuit then develops a voltage to drive the bridge-balanced output stage. This results in the Vcc supply having exactly one half of the output voltage added to the quiescent voltage.

The protection mechanisms that affect the signal path are implemented to protect the amplifier under real-world conditions. These conditions are high instantaneous current, excessive temperature, and output device operation outside safe conditions.

Two transistors act as a conventional current limiter, sensing current in the output stage. If current exceeds safe levels, the limiters remove the drive from the LVAs, limiting current in the output stage to a safe level.

To further protect the output stages, the patented *ODEP* circuitry is used. It produces an analog output proportional to the always changing *safe operating area* of the output transistor. This output controls the translator stage previously mentioned, removing any further drive that may exceed the *safe operating area* of the output stage.

A thermal sensor supplies the *ODEP* circuits with information on the operating temperature of the heat sink on which the output devices are mounted.

Should the amplifier fail in a way that would cause DC across the output lead, the DC protection circuit senses this on the negative feedback loop and shuts down the output stages until the DC is removed.

5.7 Bridge-Mono Operation

By setting the dual/mono switch on the back panel to Bridge-Mono, the user can convert the *Com-Tech* amplifier into a bridge-mono amplifier. With a signal applied to the Channel 1 input jack, and the load between the positive (+) output terminals on the back panel, twice the voltage can be output.

The Channel 1 output feeds the Channel 2 error amp. Because there is a net inversion, the Channel 2 output is out of polarity with Channel 1. This produces twice as much voltage across the load. Each of the channel's protection mechanisms work independently if a fault occurs.

5.8 Parallel-Mono Operation

With the dual/mono switch set to Parallel-Mono, the output of Channel 2 is paralleled with the output of Channel 1. A suitable high current-handling jumper must be connected across the positive (+) output terminals to gain the benefits of this operating mode.

The signal path for Channel 1 is the same as previously discussed, except that Channel 1 also drives the output stage of Channel 2. The Channel 2 balanced input, error amp, translators and LVAs are disconnected and no longer control the Channel 2 output stage. The Channel 2 output stage and protection mechanisms are also coupled through S1 and function as one.*

In Parallel-Mono mode, twice the current of a single channel is available. Because the Channel 2 *ODEP* circuit is coupled to Channel 1, you have added protection if a fault occurs in the Channel 2 output stage. The Channel 2 *ODEP* circuit limits the output of both output stages by removing the drive from the Channel 1 translator stages.

^{*} Note: When the amplifier's dual/mono switch is moved to the Parallel/ Mono position, the Channel 2 IOC indicator will illuminate. This is a normal condition in this configuration.

6 Electrical Checkout Procedures

6.1 General Information

The following test procedures are to be used to verify operation of this amplifier. DO NOT connect a load or inject a signal unless directed to do so by the procedure. These tests, though meant for verification and alignment of the amplifier, may also be very helpful in troubleshooting. For best results, tests should be performed in order.

All tests assume that AC power is from a regulated source. Test equipment includes an oscilloscope, a DMM, a signal generator, loads, and I.M.D. and T.H.D. noise test equipment.

6.2 Test Procedures

6.2.1 Standard Initial Conditions

Level controls fully clockwise. Stereo/Mono switch in Stereo. Sensitivity switch in 26 dB fixed gain position. 70-V mode switches in the 8/4 ohm position.

Place a jumper across pins 3 and 4 of both TP100 and TP200. This will keep the amplifier out of auto standby.

It is assumed, in each step, that conditions of the amplifier are per these initial conditions unless otherwise specified.

6.2.2 Turn On Delay

Spec: 4 seconds ± 2 seconds.

Procedure: Up to 1 second after turn-on, the current path to the primary is through an NTC. After 1 second a relay closes that shorts out the NTC. Three seconds later bias is applied to the output section of the amplifier.

6.2.3 Output Bias Adjustment

Spec: 320 to 340 mVDC.

Procedure: While the heatsink temperature is less than

40° C measure the DC voltage on the output module across R37 (15 ohm), adjust R02 if necessary. Measure the DC voltage on the output module across R39 (15 ohm), adjust R33 if necessary. Repeat for the second channel.

6.2.4 ODEP Voltage Adjustment

Spec: See chart

Procedure: Measure the heatsink temperature. If unable to do so, note the room temperature and do this procedure while the heatsink temperature is still at room temperature.

Measure the voltage on TP100-5 and adjust R186 for the voltage per the chart. This voltage will be a negative voltage. Measure the voltage on TP100-10 and adjust R300 for the voltage per the chart. This voltage will be a positive voltage. For channel 2 the designations are TP200-5, TP200-10, R286, and R400.

		oltage Chart nce ±0.1V
°F	<u>°C</u>	Voltage
66	<u> </u>	10.55
68	20.0	10.48
70	21.1	10.41
72	22.2	10.34
74	23.3	10.26
76	24.4	10.19
78	25.6	10.12
80	26.7	10.05
82	27.8	9.97
84	28.9	9.90
86	30.0	9.83
88	31.1	9.75
90	32.2	9.68
92	33.3	9.61
94	34.4	9.54

6.2.5 DC Offset

Spec: 0 VDC, ±10 mV.

Procedure: Measure DC voltage at the output connectors (rear panel). There is no adjustment for output offset. If spec is not met, there is an electrical malfunction. Slightly out of spec measurement is usually due to U104/U204 out of tolorance.

6.2.6 Quiescent Power Draw

Spec: 60 watts maximum

Procedure: With no input signal the amplifier should draw no more than 60 watts from the power source. Slightly high readings may be due to out of tolerance Output Bias Adjustment.

6.2.7 Voltage Gain

- Spec *CT-810*: 26 dB Gain of 20 ±3% .775V for 8/4 Ohm – Gain of 64 ±12% .775V for 70V – Gain of 90 ±12%
- Spec *CT-1610*: 26 dB Gain of 20 ±3% .775V for 8/4 Ohm – Gain of 64 ±12% .775V for 70V – Gain of 90 ±12%

Procedure: With the switch in the 26 dB position, inject a 0.775 VAC 1 kHz sine wave into the input. Measure 15.5 VAC \pm 0.5 VAC at the output. With the switch in the .775V 8/4 Ohm position, inject a 0.775 VAC 1 kHz sine wave into the input. Measure 29.45 VAC \pm 3.5 VAC at the output. With the switch in the .775V 70V position, inject a 0.775 VAC 1 kHz sine wave into the input. Measure 70 VAC \pm 8.4 VAC at the output. Return the Input Sensitivity Switch to 26 dB.

6.2.8 Current Sense Calibration

Spec: 2 amps = .665V at sense point.

Procedure: Load each channel to 8 ohms. Inject a 1 kHz sine wave into each input and adjust the level such that 16.0 Vrms appears on the outputs. For channel 1 measure Vrms at pin 9 of TP100 and adjust R361 until voltage at pin 9 is between 0.66 and 0.67 Vrms. For channel 2 measure pin 9 of TP200 and adjust R461.

6.2.9 Common Mode Rejection

Spec: >70 dB @ 1 kHz.

Procedure: Using a cable with the inverting and noninverting inputs shorted together inject a 0 dBu (0.775 Vrms) 1 kHz sine wave into each channel, one channel at a time. At the output measure less than 4.9 mVrms. For channel 1 adjust R103 for the greatest rejection. For channel 2 adjust R203 for the greatest rejection.

6.2.10 Current Limit

Spec CT-810: 39 ±6 Amps Spec CT-1610: 39 ±6 Amps

Procedure: Load the channel under test to 1 ohm. Inject a 1 kHz differentiated (10% duty cycle) square wave. See Figure 6.1 for differentiator circuit. Increase output level until current limit occurs. Current limit should occur at 39 \pm 6 amps (39 Vpk) on *CT-810*s and *CT-1610*s. Observe clean (no oscillations) current clipping. See Figure 6.2 for differentiated wave form at current limit.

6.2.11 10 kHz Square Wave Response

Spec: No overshoot, ringing, or oscillations. Slew rate 17 - 25 V/ μ S into 8 ohm load.

Procedure: Load the channel under test to 8 ohms. Inject a 10 kHz square wave to obtain 35 volts zero-topeak at the output. Observe the wave form. It must not include overshoot, ringing, or any type of oscillation. Rise time should be between 17 and 25 volts per microsecond. See Figure 6.3 for typical 10 kHz square wave response.

6.2.12 20 kHz Crosstalk

Spec: 60 dB below 8 ohm 20-20kHz power.

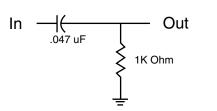


Figure 6.1 Differentiator Circuit

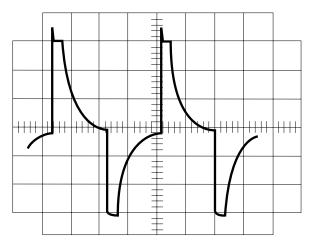


Figure 6.2 Differentiated wave form at current limit

Procedure: Load each channel to 8 ohms. Inject a 20 kHz sine wave into channel 1 and, if the amp is a *CT*-810, increase the level to 48 VAC at the output. If the amp is a *CT*-1610 increase the level to 64 VAC. Terminate the channel 2 input with 600 ohms. Measure less than 48 millivolts AC at the output of channel 2 on a *CT*-810 (less than 64 millivolts for a *CT*-1610). Repeat for channel 2 by driving channel 2 and terminating channel 1. Measure less than 48 millivolts for a *CT*-810 (less than 64 millivolts for a *CT*-1610).

6.2.13 Output Power

Spec: Maximum Average Power at 0.05% THD. Both channels driven.

Com-Tech 810:

8 ohm = 300 watts/channel maximum 4 ohm = 480 watts/channel maximum 12.5 ohm (70V mode) = 455 watts/channel maximum

Com-Tech 1610:

8 ohm = 535 watts/channel maximum 4 ohm = 860 watts/channel maximum 6.25 ohm (70V mode) = 955 watts/channel maximum

Procedure: Load each channel to 8 ohms. Inject a 1 kHz sine wave and, on a *CT-810*, measure at least 49.0 VAC at the output of each channel with less than 0.05% THD. With a *CT-1610*, the VAC measurement should be 65.4. Load each channel to 4 ohms. Inject a 1 kHz sine wave and, on a *CT-810*, measure at least 43.8 VAC at the output of each channel with less than 0.05% THD. On a *CT-1610* the VAC reading should be 58.7. Switch the output mode switches to 70V. If working on a *CT-410*, load each channel to 12.5 ohms, on a *CT-1610* the load should be 6.25 ohms. Inject a 1 kHz sine wave

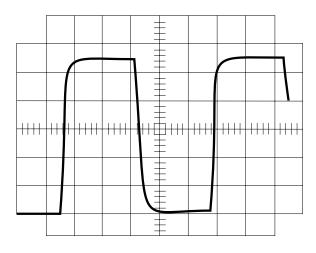


Figure 6.3 10 kHz square wave response

and, on the *CT-810*, measure at least 75.4 VAC at the output of each channel with less than 0.05% THD. On the *CT-1610*, you should measure at least 77.3 VAC.

6.2.14 ODEP Limiting

Spec: Clean limiting into a resistive load (see Figure 6.4).

Procedure: Load each channel to 4 ohms. Set the mode switches to 70V. Inject a 50 Hz sine wave into each channel and increase the level for 20 VAC at the output. If the unit is equipped with a fan, stuff a rag into it, preventing the fan from turning. Observe the wave form on an oscilloscope. After about 1 minute *ODEP* limiting will occur (see Figure 6.4). Once limiting occurs the wave form will collapse at a rapid rate. Make sure both channels limit. Remove the load and signal, remove the rag from the fan, and allow the amp to cool. Put each channel back into the 8/4 ohm mode.

6.2.15 Fan Operation

Spec: Continuously variable. Varies with *ODEP* voltage.

6.2.16 LF Protection

Spec: Amplifier channel will cycle into protect with .5 Hz 6Vp-p or 2 Hz 6 Vrms sine wave at the output.

Procedure: Inject a 2 Hz sine wave into the input of the channel under test. Increase the level until the amplifier cycles on and off. It should cycle on and off when the output reaches approximately 6 Vrms. 20kHz power

0 dB < .01%

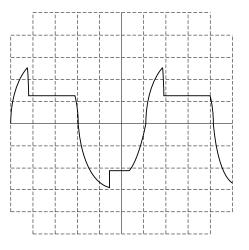


Figure 6.4 ODEP limiting wave form

6.2.16 LF Protection

Spec: Amplifier channel will cycle into protect with .5 Hz 6Vp-p or 2 Hz 6 Vrms sine wave at the output.

Procedure: Inject a 2 Hz sine wave into the input of the channel under test. Increase the level until the amplifier cycles on and off. It should cycle on and off when the output reaches approximately 6 Vrms.

6.2.17 Signal to Noise

Spec *CT-810*: 100 dB below 295 watts into 8 ohms. 20Hz-20kHz unweighted.

Spec *CT-1610*: 100 dB below 520 watts into 8 ohms. 20Hz-20kHz unweighted.

Procedure: Short inputs. Load each channel to 8 ohms. On a *CT-810*, measure less than 486μ Vrms at the output of each channel. For the *CT-1610*, the measurement should be less than 645μ Vrms.

6.2.18 Intermodulation Distortion (IMD)

Spec: 8 ohms, 0dB = FTC continuous average 20Hz-20kHz power

0 dB < .01% -35 dB < .05%

Procedure: Load each channel to 8 ohms. Inject a SMPTE standard IM signal (60 Hz and 7 kHz sine wave mixed at 4:1 ratio). Set the 60 Hz portion of the signal for 23 Vrms output. Set the 7 kHz portion to 25%. With the IM analyzer measure less than 0.01% IMD. Repeat the test at -35 dB and measure less than 0.05% IMD.

6.2.19 Displays

Spec:

Enable - On when low voltage supply is on. *ODEP* - Dims in proportion to *ODEP* limiting. IOC - On with error amp clip (distortion). SPI - Flash in sync with amplifier output.

Procedure: Verify indicators per above specifications.

6.2.20 Auto Standby Operation

Spec: Amp goes into standby after 30 minutes of no input signal.

Procedure: Remove the jumpers on TP100 and TP200 pins 3 & 4. Apply 1 volt of a 1 kHz sine wave signal to both channels. Turn off or remove the signal. After 30 seconds verify that voltage across R37 and R39 (15 ohm on output assembly) decreases to less than 20 mVrms. Any noise generated by auto standby must be equal to or less than the residual noise of the amplifier. To test this use one 8 ohm speaker per channel.

6.2.21 Post Testing

After completion of testing, if all tests are satisfactory, the amplifier controls should be returned to the positions required by the customer. If conditions are unknown or unspecified, factory settings are as follows:

On CT810A and 1610A, remove the jumpers across pins 3 & 4 of TP100 and TP200.

Level Controls: 9 to 11 O'Clock. Sensitivity Switch: .775V 8/4 Ohm.

7 Exploded Views

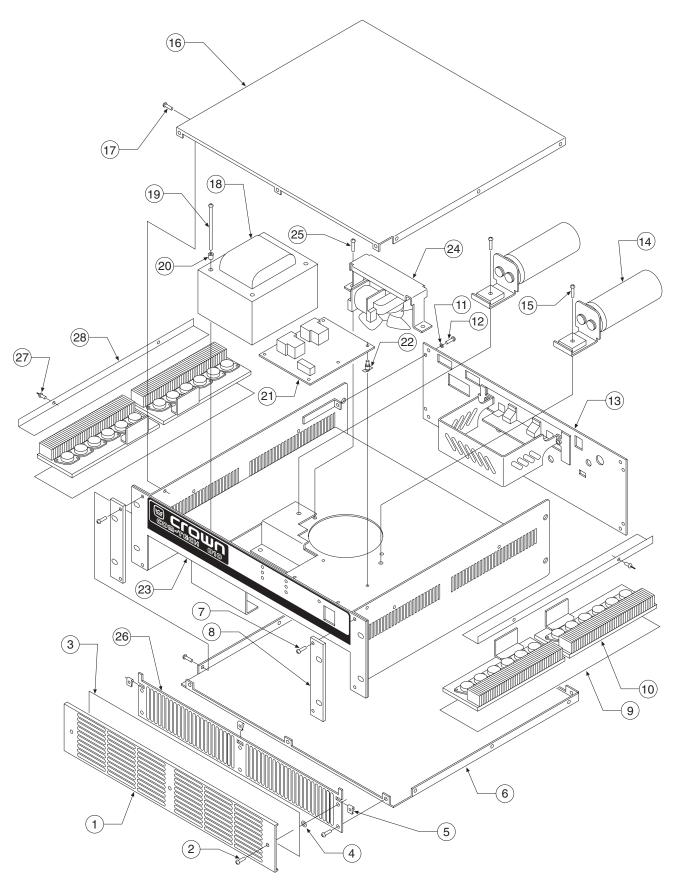
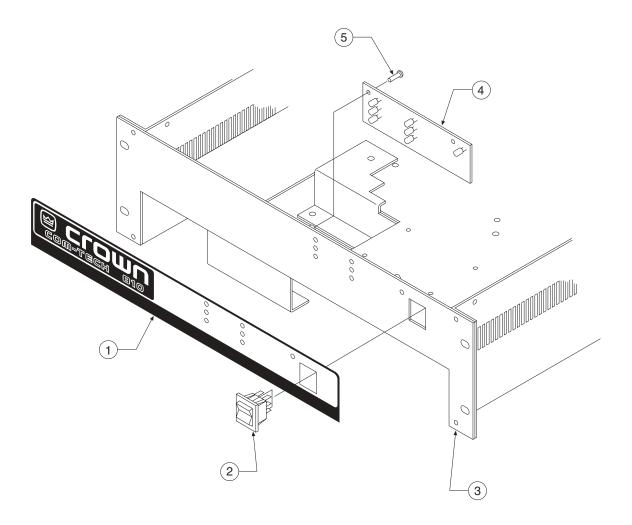


Figure 7.1 Com-Tech 810 Main Chassis

Item	Qty.	Description	CPN
1	1	GUARD, 2.4" FINGER BLK	F11572J8
2	3	8-32 X.5 OVAL HD PH MSCR BZ	A10090-70808
3	1	FILTER, FR AIR 3.15 X 16.23 X .13	D 7118-9
4	3	.5 X .136 X .02 NYLON WASHER	A10101-5
5	3	CLIP, CT/MA/MT/PB FIL GRILLE	A10173-1
6	1	CVR, MA MT PB CT TOP PC	D 8501-5
7	4	8-32 X .5 PNHD PH TAPTITE BLK	A10110-70808
8	2	END CAP, 3.5" BLK PC	F12706-2
9	1(per channel)	SILPAD, 2.87X14.57 7 MIL	D 7796-2
10	2(per channel)	HEAT SINK ASSEMBLY	See Fig. 7.9
11	3	#6 INT STAR WASHER BLACK	A10094-3
12	3	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
13	1	BACK PANEL ASSEMBLY	See Fig. 7.3
14	2	CAPACITOR ASSEMBLY	See Fig. 7.10
15	2	10-32 X .50 RDHD PH MSCR Z	A10086-11008
16	1	CVR, MA MT PB CT TOP PC	D 8501-5
17	8	SCREW, 6-32X.312 TORX PNHD SEM	103415-70605
18	1	XFMR, CT810/A 120V 60HZ	102779-1
18	1	XFMR,CT810/A 100/120V 50/60HZ	102780-1
18	1	XFMR, CT810/A 220/240V 50/60HZ	102781-1
19	4	10-32 X 1.75 TRHD PH MSCR Z	A10087-11028
20	4	#10 NYL SHLDR WASHER #10-375-A	A10099-7
21	1	PWA, CT'10A CONTROL 220/240V CE	125235-1
21	1	PWA, CT'10A CONTROL 120V	125416-1
21	1	PWA, CT'10A CONTROL 220/240V	125419-1
21	1	PWA, CT'10A CONTROL 100V	125420-1
22	5	4 PC BOARD SUPPORT	C6032-4
23	1	CHASSIS, CT'10A 3U CE (810A)	125302-1
24	1	TRANSMOTOR ASSEMBLY	See Fig. 7.11
25	2	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
26	1	GRILLE, 3.35" FILTER BLK PC	F12711-2
27	4	PLASTI-RIVET, .156 2 PRONG BLK	C 9387-9
28	2	SHROUD, 1.75X14.45 PAPER	D 8197-2



Item	Qty.	Description	CPN
1	1	OVERLAY, CT810 REM FP	101741-1
2	1	SWITCH, DPDT CENTER OFF 16A	101843-1*
3	1	CHASSIS, CT'10A 3U CE	125302-1
4	1	PWA, CT10A DISPLAY	125402-1
5	2	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9

*Com-Tech 810A only.

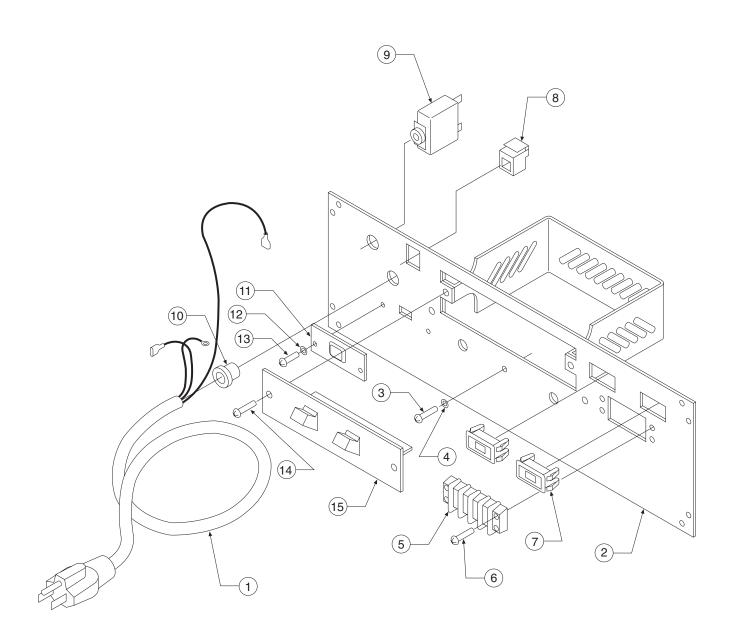


Figure 7.3 Com-Tech 810 Rear Panel

Item	Qtv.	Description	CPN
	_	•	
1	1	PWR CORD, 14-3 SJT NEON 39 IN, 120V DOMESTIC	A11793-0109N
1	1	PWR CORD, 14-3 SJT 5-15 39 IN, 100V, 220V, 120 EXP.	A11793-0308N
1	1	PWR CORD, EUR PLUG 39 IN, 220 V CE	A10793-0507R
1	1	PWR CORD, INDIA PLUG 39 IN, 240V	A10793-0707R
1	1	PWR CORD, AUSTRALIA PLUG 39 IN, 240v	A10793-0807R
2	1	BP, CT810A REM PIP2 3U DOMESTIC	102398-1*
3	3	8-32 X .5 PNHD PH TAPTITE BLK	A10110-70808
4	3	#8 INT STAR LOCKWASHER BLACK	A10094-5
5	1	4-141-Y #6 BARRIER BLOCK	C 5990-4
6	4	8-32 X .37 RDHD BZ MSCR	A10086-70806
7	2	DPDT 15A SLIDE SW PNL MT	C 7957-1
8	1	JACK, RJ11 PANEL MOUNT	102686-1
9	1	BRKR, 1 POLE 10A SNAP-IN VDE 810A, 220V, 240V	C10170-6
9	1	BRKR, 1 POLE 20A SNAP-IN VDE 810A, 100V, 120V	C10177-1
10	1	STRAIN RELIEF SR7N-2 BLACK (14-3)	A10214-7
10	1	STRAIN RELIEF, EUR SR-6P30-CE	C10187-0
11	1	COVER, DUAL/MONO SWITCH PC	100454-1
12	2	#6 INT STAR WASHER BLACK	A10094-3
13	2	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
14	2	8-32 X .37 RDHD BZ MSCR	A10086-70806
15	1	ASM, PIP2BB	100450-1

*Com-Tech 810A only.

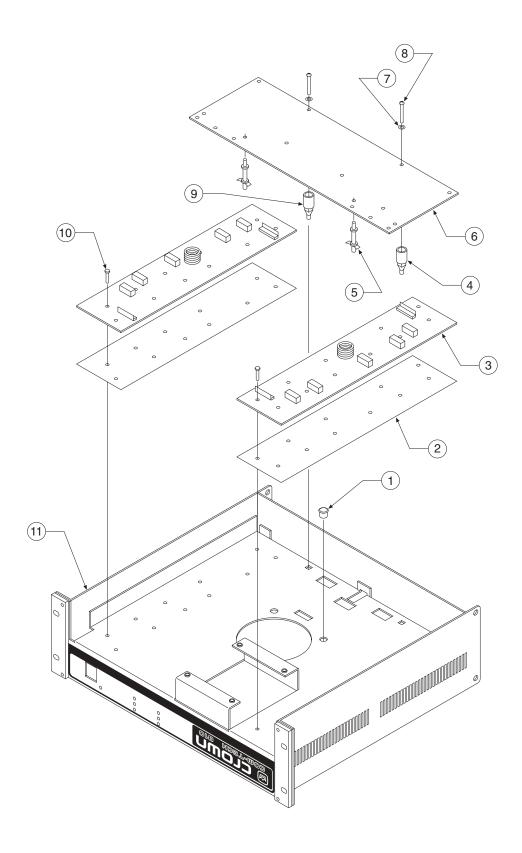


Figure 7.4 Com-Tech 810 Chassis Bottom

<u>Item</u>	<u>Qty.</u>	Description	<u>CPN</u>
1 2 3 4 5 6 7 8 9 10 11	2 2(per channel) 1(per channel) 2 2 1 2 2 2 2 2 2 12(per channel) 1	OCB.500 SNAP BUSHING INSULATOR, THROUGH HOLE OUTPUT PWA, CT810A/1610A OUTPUT 1" SPACER TOGGLE NUT, PLASTIC TENSION RETAINING BD SUPPORTS PWA, CT810A MAIN DUAL POT NYL THUMBSCREW WASHER 8-18X1.375 PH PNHD ST SCR Z .75" SPACER TOGGLE NUT PLASTIC 6-32 X .56 HEX WSHR HD W/T15 CHASSIS, CT'10A 3U CE (810A)	A10192-1 125547-1 102774-1 C 6913-5 C 6912-7 125412-3 D 4137-2 A10109-10822 C 6914-3 A10315-1 125302-1

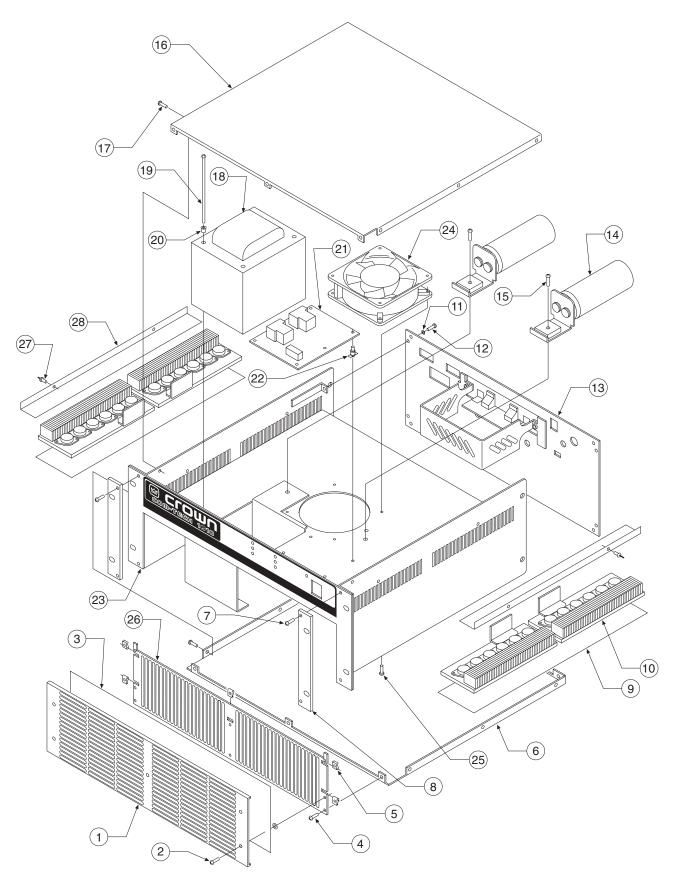


Figure 7.5 Com-Tech 1610 Main Chassis

Item	Qty.	Description	CPN
1	1	GUARD, 4.024: FINGER BLK	F11577J7
2	3	8-32 X.5 OVAL HD PH MSCR BZ	A10090-70808
3	1	FILTER, FR AIR 16.23 X 4.9	D 7119-7
4	3	.5 X .136 X .02 NYLON WASHER	A10101-5
5	3	CLIP, CT/MA/MT/PB FIL GRILLE	A10173-1
6	1	CVR, MA MT PB CT TOP PC	D 8501-5
7	4	8-32 X .5 PNHD PH TAPTITE BLK	A10110-70808
8	2	END CAP, 7" BLK PC	F12708-8
9	1(per channel)	SILPAD, 2.87X14.57 7 MIL	D 7796-2
10	2(per channel)	HEAT SINK ASSEMBLY	See Fig. 7.9
11	3	#6 INT STAR WASHER BLACK	A10094-3
12	3	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
13	1	BACK PANEL ASSEMBLY	See Fig. 7.7
14	2	CAPACITOR ASSEMBLY	See Fig. 7.10
15	2	10-32 X .50 RDHD PH MSCR Z	A10086-11008
16	1	CVR, MA MT PB CT TOP PC	D 8501-5
17	8	SCREW, 6-32X.312 TORX PNHD SEM	103415-70605
18	1	XFMR, CT1610/A 120V 60HZ	102782-1
18	1	XFMR, CT1610/A 100/120V 50/60HZ	102783-1
18	1	XFMR, CT1610/A 220/240V 50/60HZ	102784-1
19	4	10-32 X 1.75 TRHD PH MSCR Z	A10087-11028
20	4	#10 NYL SHLDR WASHER #10-375-A	A10099-7
21	1	PWA, CT'10A CONTROL 220/240V CE	125235-1
21	1	PWA, CT1610A CONTROL 100V	125417-1
21	1	PWA, CT1610A CONTROL 120V	125418-1
21	1	PWA, CT'10A CONTROL 220/240V	125419-1
22	5	4 PC BOARD SUPPORT	C6032-4
23	1	CHASSIS, CT'10A 4U CE (1610A)	125303-1
24	1	FAN, 4.7" BALL BEARING 4715-FS	C 7858-1
25	2	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
26	1	GRILLE, 5.1" FILTER BLK PC	F12712-0
27	4	PLASTI-RIVET, .156 2 PRONG BLK	C 9387-9
28	2	SHROUD, 1.75X14.45 PAPER	D 8197-2

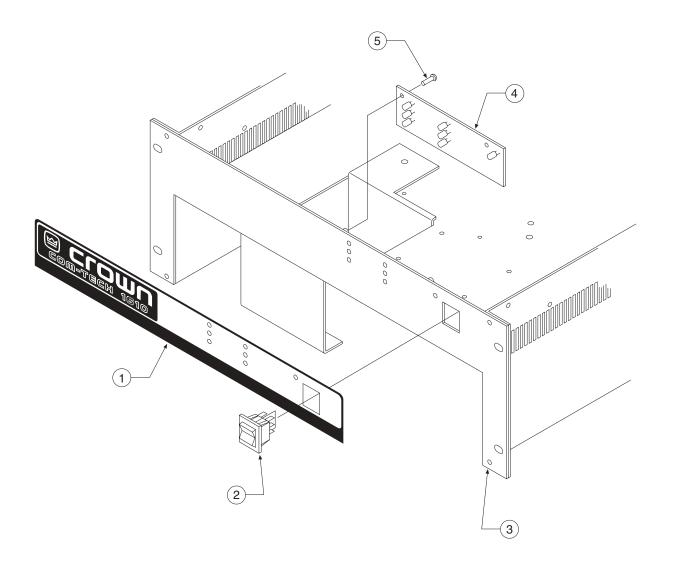


Figure 7.6 Com-Tech 1610 Front Panel

Item	Qty.	Description	CPN
1 2 3 4 5	1 1 1 1 2	OVERLAY, CT1610 REM FP SWITCH, DPDT CENTER OFF 16A CHASSIS, CT'10A 4U CE PWA, CT10A DISPLAY 6-32X.312 PAN HD T15 TT TYPE W	101743-1 101843-1* 125303-1 125402-1 C 9491-9
4 5	1 2		

* Com-Tech 1610A only.

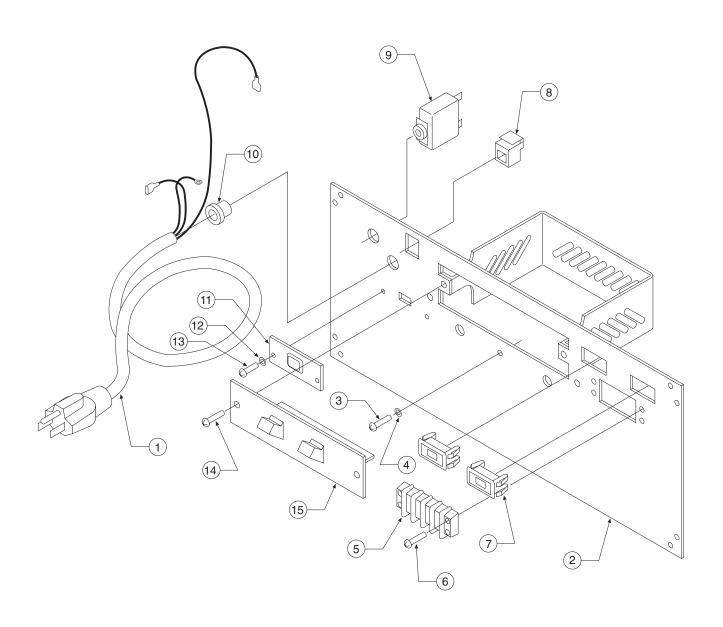


Figure 7.7 Com-Tech 1610 Rear Panel

<u>Item</u>	<u>Qty.</u>	Description	CPN
1 1 1 2 3 4 5 6 7 8 9 9 10	Qty. 1 1 1 1 1 1 3 3 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1	PWR CORD, 14-3 SJT NEON 39 IN, 120V DOMESTIC PWR CORD, 14-3 SJT 5-15 39 IN, 100V, 220V, 120 EXP. PWR CORD, EUR PLUG 39 IN, 220V CE PWR CORD, INDIA PLUG 39 IN, 240V PWR CORD, AUSTRALIA PLUG 39 IN, 240V BP, CT1610A REM PIP2 4U DOMESTIC 8-32 X .5 PNHD PH TAPTITE BLK #8 INT STAR LOCKWASHER BLACK 4-141-Y #6 BARRIER BLOCK 8-32 X .37 RDHD BZ MSCR DPDT 15A SLIDE SW PNL MT JACK, RJ11 PANEL MOUNT BRKR, 1 POLE 20A SNAP-IN VDE 1610A, 220V, 240V BRKR, 30A 250VAC SNAP-IN THERM1610A, 100V, 120V STRAIN RELIEF SR7N-2 BLACK (14-3)	A11793-0108N A11793-0308N A10793-0507R A10793-0707R A10793-0807R 102542-1* A10110-70808 A10094-5 C 5990-4 A10086-70806 C 7957-1 102686-1 C10177-1 C 9837-3 A10214-7
11	1 1	STRAIN RELIEF, EUR SR-6P30-CEE COVER, DUAL/MONO SWITCH PC	100454-1
10	1 1 2	STRAIN RELIEF, EUR SR-6P30-CEE COVER, DUAL/MONO SWITCH PC	C10187-0
13 14 15	2 2 1	#6 INT STAR WASHER BLACK 6-32X.312 PAN HD T15 TT TYPE W 8-32 X .37 RDHD BZ MSCR ASM, PIP2BB	C 9491-9 A10086-70806 100450-1

* Com-Tech 1610A only.

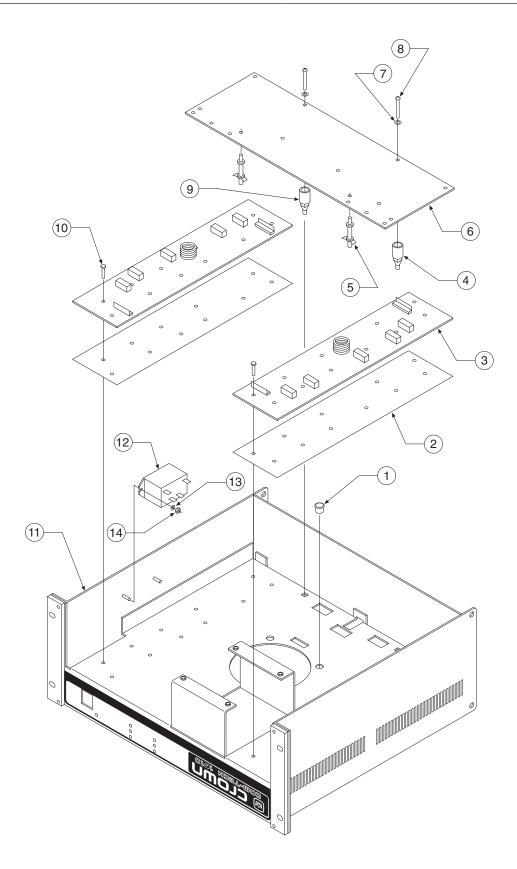


Figure 7.8 Com-Tech 1610 Bottom Chassis

Item	<u>Qty.</u>	Description	<u>CPN</u>
	0		
1	2	OCB.500 SNAP BUSHING	A10192-1
2	1(per channel)	INSULATOR, THROUGH HOLE OUTPUT	125547-1
3	1(per channel)	PWA, CT810A/1610A OUTPUT	102774-1
4	2	1" SPACER TOGGLE NUT, PLASTIC	C 6913-5
5	2	TENSION RETAINING BD SUPPORTS	C 6912-7
6	1	PWA, CT1610A MAIN DUAL POT	125413-2
7	2	NYL THUMBSCREW WASHER	D 4137-2
8	2	8-18X1.375 PH PNHD ST SCR Z	A10109-10822
9	2	.75" SPACER TOGGLE NUT PLASTIC	C 6914-3
10	12(per channel)	6-32 X .56 HEX WSHR HD W/T15	A10315-1
11	1	CHASSIS, CT'10A 4U CE (1610A)	125303-1
12	1	30A 120VAC SPST RELAY	C 7859-9
13	2	#6 INT STAR WASHER ZINC	A10094-4
14	2	6 X 32 HEX NUT	A10102-5

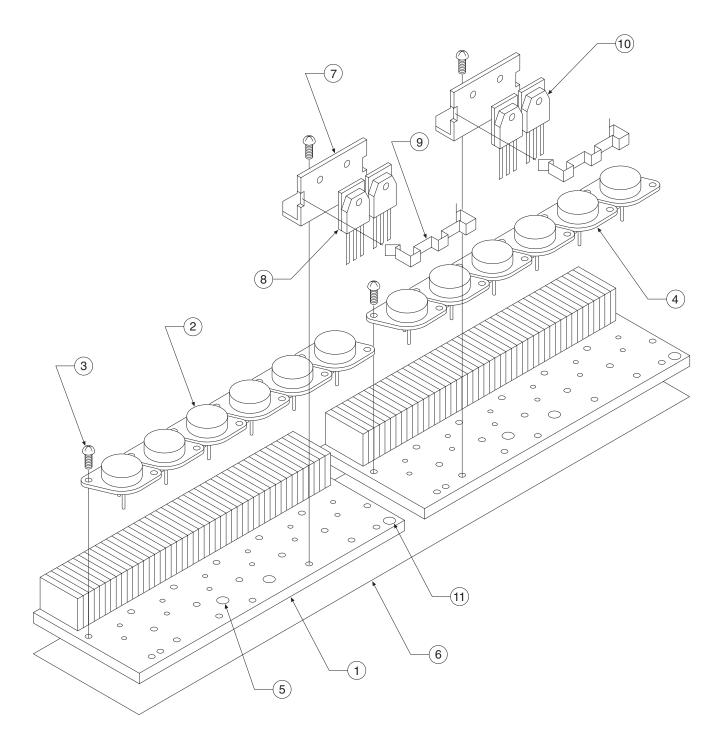


Figure 7.9 Com-Tech 810 & 1610 Heatsink Assembly

Item	Qty.	Description	CPN
1	2(per channel)	HS, ALUM 3/4" FINS ADH #7	M21324-5
2	6(per channel)	SJ7148 NPN PWR XSISTOR	C 8187-4
3	28(per channel)	6-32X.312 PAN HD T15 TT TYPE W	C 9491-9
4	6(per channel)	TRANSISTOR, PNP SELECT C 8188-2	D 9213-6
5	1(per channel)	ASM, THERMAL SENSE	H42902-9
6	1(per channel)	SILPAD, 2.87X14.57 7 MIL	D 7796-2
7	2(per channel)	BRKT, TO3P HEATSINK	D 7666-7
8	2(per channel)	2SC2837 PWR NPN T03P SANKEN, DRIVER	C 8574-3
9	2(per channel)	CLIP, T03P MOUNTING	D 7665-9
10	2(per channel)	2SA1186 PWR PNP T03P SANKEN, DRIVER	C 8573-5
11	1(per channel)	ASM, BIAS XSISTOR	H42901-1

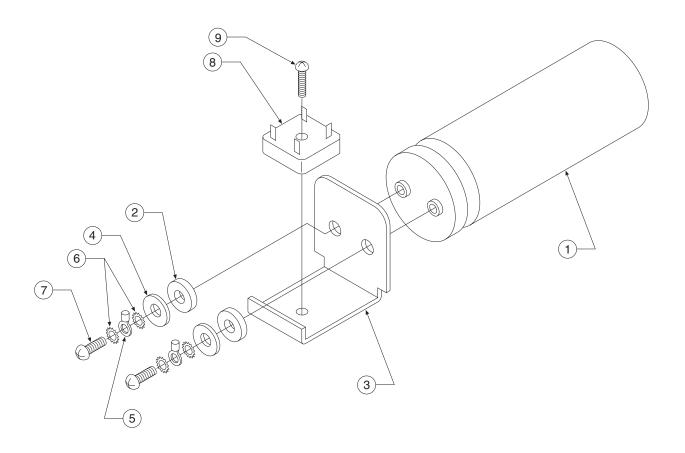


Figure 7.10 Com-Tech 810 & 1610 Capacitor Assembly

Item	Qty.	Dty. Description					
1 2 3 4 5	1(per channel) 2(per channel) 1(per channel) 2(per channel) 2(per channel)	6300UF 150V ELECTROLYTIC CAP WSHR, SHOULDER CAP ASM BRACKET, CAPACITOR 1/4" BELLEVILLE SPRING WSHR #8 RING TERM 16-22 AWG PIDG	CPN D 8639-3 D6764-1 D 8438-0 A10098-5 C 7897-9*				
6 7 8 8 9	4(per channel) 2(per channel) 1(per channel) 1(per channel) 2(per channel)	#10 INT TOOTH LOCKWASHER ZINC 10-32 X .50 RDHD PH MSCR Z 35A 400V BRIDGE RECTIFIER RECTIFIER, 35A W/.1UF CAP WELD (export) 10-32 X .50 RDHD PH MSCR Z	A10094-8 A10086-11008 C 8752-5 H43603-2 A10086-11008				

* Also part of wire assemblies H43469-8 and H43470-6.

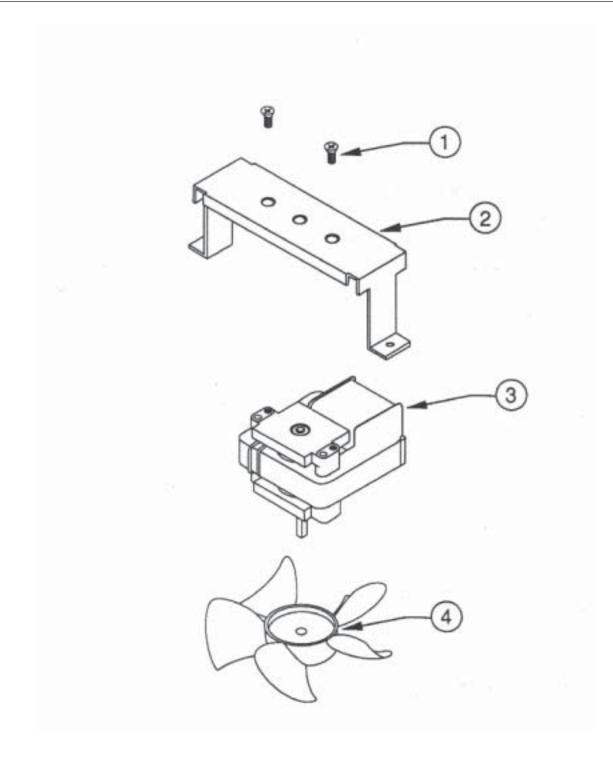


Figure 7.11 Com-Tech 810 Transmotor Assembly

ltem	<u>Qty.</u>	Description	<u>CPN</u>
1	2	6-32 X5/16 UNDERCUT FLTHD MSCR	C 7062-0
2	1	BRACKET, FAN	D 8439-8
3	1	MOTOR, CT FAN PREP CE	101399-1
4	1	FAN BLADE, 4.0 INCH CCW	C 9939-7

8 Schematics and Module Documentation

MODULE HISTORY

The Com Tech 10A can be distinguished from the Com Tech 10 by the addition of an RJ11 jack located on the back panel. The Com Tech 10 amplifiers do NOT have this jack, only the 10As do. There have been several revisions, some which call for new modules. The following is a list of all modules used up to August 1998. (NLA is No Longer Available.)

DISPLAY MODULES:

<u>Q43468-0</u>

Built on D9001-5 board. NLA. Original PIP2, CT10 module. Replace with 125402-1.

<u>100281-1</u>

Built on 100280-1 board. NLA. CT10 module. Replace with 102682-1.

<u>102682-1</u>

Built on 102683-1 board. Original CT10A module. Replace with 125402-1.

<u>125402</u>

Built on 125403-1 board. Current Production.

OUTPUT MODULES CT-810(A)/1610(A):

<u>Q43471-4</u> Built on D9139-3 board. NLA. Original CT10 module. Replace with 102774-1. <u>100289-1</u> Built on 100286-1 board. NLA. Replace with 102774-1. <u>100289-2</u> Built on 100286-1 board. NLA. Replace with 102774-1. <u>102774-1</u> Built on 102770-2 board. Original CT10A module. Current Production.

NOTE: For Control Board replacement instructions, refer to page 8-3.

CONTROL MODULES: 220/240V:

<u>101057-1</u> Built on 100283-1 board. NLA. Original CT10 module. Replace with 102831-1. <u>101057-2</u>

Built on 100283-1 board. NLA. Added remote turn-on, removed extra fan circuitry and added cap for turn on/ off transients. Replace with 102831-1.

<u>102831-1</u>

Built on 102824-1 board. NLA. Original CT10A module. Replace with 125419-1.

<u>125235-1</u>

Built on 125235-1 board. CE version, for use on amplifiers that carry the CE rating. Current Production. <u>125419-1</u>

Built on 125415-1 board. Current Production.

120V:

<u>Q43474-8</u>

Built on D9140-1 board. NLA. Replace with 102825-1. <u>100284-1</u>

Built on 100283-2 board. NLA. Replace with 102825-1. 100284-2

Built on 100283-2 board. NLA. Replace with 102825-1. <u>101531-1</u>

Built on 100283-2 board. Used on CT-1610 only. Added remote turn-on, removed extra fan circuitry and added cap for turn on/off transients. Replace with 125418-1.

<u>102825-1</u>

Built on 102824-1 board. If unit is a CT-1610A, replace with 125418-1. Otherwise use 125416-1.

<u>102829-1</u>

Built on 102824-1 board. NLA. Used in CT-1610A only. Replace with 125418-1.

<u>125416-1</u>

Built on 125415-1 board. Used in CT-210A/410A/810A. Current Production.

<u>125418-1</u>

Built on 125415-1 board. Used in CT-1610A only. Current Production.

100V:

<u>101130-1</u> Built on 100283-1 board. NLA. Replace with 102833-1. <u>101130-2</u> Built on 100283-2 board. NLA. Replace with 125420-1. <u>101530-1</u> Built on 100283-2 board. NLA. Used in CT-1610 only. Replace with 125417-1.

102827-1

Built on 102824-1 board. NLA. Used in CT-1610A only. Replace with 125417-1.

102829-1 Built on 102824-1 board. NLA. Used in CT-1610A only. Replace with 125417-1. 102833-1 Built on 102824-2 board. NLA. Replace with 125420-1. 125148-1 Built on 125415-1 board. NLA. Used in CT-1610A only. Replace with 125417-1. 125417-1 Built on 125415-1 board. NLA. Used in CT-1610A only. Replace with 125417-1. 125420-1 Built on 125415-1 board. Used in CT-1610A only. Current Production. 125420-1 Built on 125415-1 board. Current Production. 125420-1 Built on 125415-1 board. Current Production. MAIN MODULE: CT-810(A) Q43472-2 Built on D9000-7 board. NLA. Replace with 100296-3. 100296-1 Built on 100291 board. NLA. Replace with 100296-3. 100296-2 Built on 100291 board. NLA. Replace with 100296-3. 100296-3 Built on 100291 board. NLA. Replace with 100296-3. 100296-3 Built on 100291-2 board. NLA. Replace with 102755-1.	125412-1 Built on 125414 board. Dual Pot. Replace with 125412-3. 125412-2 Built on 125414-3 board. NLA. Dual Pot. Replace with 125412-3. 125412-3 Built on 125414-3 board. Current Production. CT-1610(A) Q43473-0 Built on 100291 board. NLA. Replace with 100298-3. 100298-1 Built on 100291 board. NLA. Replace with 100298-3. 100298-2 Built on 100291 board. Replace with 100298-3. 100298-3 Built on 100291-2 board. NLA. Replace with 102789-1. 102789-1 Built on 102756-1 board. Replace with 125275-1. 125275-1 Built on 125266-1 board. Dual Pot. Replace with 125413-2. 125413-1 Built on 125414 board Dual Pot. Replace with 125413-2.

SCHEMATIC INFORMATION:

The schematics provided are representative only. There may be slight variations from amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only.

Module	<u>Schematic</u>
Com-Tech 10 Main	100294
Com-Tech 810 Main	100297
Com-Tech 810A Main	125408
Com-Tech 810A Main	102768
Com-Tech 810A Main (Dual Pot)	102768
Com-Tech 1610 Main	100299
Com-Tech 1610A Main	125409
Com-Tech 1610A Main	102769
Com-Tech 1610A Main (Dual Pot)	102769
Com-Tech 10 Display	100281
Com-Tech 10A Display	125402
Com-Tech 10A Display	102682
Com-Tech 10 Control 120	100284
Com-Tech 10 Control 220/240	101057
Com-Tech 10A Control 220/240 C	125419
Com-Tech 10A Control 220/240 C	E 125235
Com-Tech 1610 Control 120V	101529
Com-Tech 1610A Control 120V	125423
Com-Tech 1610A Control 120V	102830
Com-Tech 1610A Control 100V	101528
Com-Tech 1610A Control 100V	125422
Com-Tech 1610A Control 100V	102828
Com-Tech 810/1610 Output	100290
Com-Tech 810A/1610A Output	102773

CONTROL MODULE REPLACEMENT MODIFICATION INFORMATION:

The newer replacement control modules must have a connection directly to chassis ground. If the old amplifier control module was attached with five plastic standoffs and one metal pem, then no modification is required. If the old amplifier control module was attached with six plastic stand-offs, then a ground wire must be added to the new control module.

The grounding wire should be at least 14 AWG wire and approximately 14 inches (35 cm) in length. One end of the wire should have a #8 ring terminal, which can be attached to the chassis ground lug used by the AC power cord. The other end of the grounding wire can be soldered to the control board at the ground pad. The grounding pad is located at the corner of the board around the mounting hole (it is also labeled "chassis ground"). The Crown part number for this wire is A11544-4140G.

All other wires and cables connecting to the control module should use the same location on the new control module as was used on the old module.

The older CT10 series amplifiers use a 2 position on/ off switch with no remote position. This switch has only one wire that should be connected to tab W1 on the new control board. This page intentionally left blank.

CT810 Main Module Information On Following Pages Documentation, Component Map, Schematic

CROV	VN I	NTE	RN	ATI	ONA	۱L	INAC For Reference	TIVE ce Use Only	10	302	96
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PAT W		1-24 1-4, 8,15,17	А В	INITIAL RELEASE INITIAL RELEASE OF 100295-2. RESORTED PART NUMBERS TO MATCH AS400 R107 AND R207 WERE C 9785-4.	0 BILL.		
TOM SZERENCSE 1-24 C INITIAL RELEASE OF 100295-3. C155 & C255 WERE 22MF 50V. R115 & R215 WERE 274K, R116 & R216 WERE 9.53K, R333 & R433 WERE 665, R335 & R435 WERE 1MOHM, C1 WAS C 3913 R336 & R436 WERE 220, J800 WAS D 8681-5, J801 WAS D8680-7, C170 & C270 WERE 0.0047. C155 & C255 WERE 4.7 63V LYTIC U100 & U200 WERE C 7558-7. ADDED C171, C172, C271, C272 100MFD 25V ELECTROLYTICS. ADDED C173 AND C273 10MFD 15V ELECTROLYTICS. ADDED R371 & R471 10KOHM 1/4W. ADDED D135 & D235 1N9618. ADDED D133, D134, D233 AND D234 1N4148.						6 C 3913-8, 1680-7, .YTIC CS.	

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 100297.
- 2. PWB PART NUMBER 100291-2.
- 3. PWA PART NUMBER 100296-3.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- B. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701. J800 AND J801.
 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD.
 THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. U102A, U104A, U202A AND U204A ARE ALTERNATE COMPONENT PARTS.
- 11. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



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	PARTS LIS	Т	
C. P. N.	DESCRIPTION	ατγ	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359, R362, R459, R462
A10265-10001	100. OHM .25W 1 MF T/R	8	R181, R184, R195, R198, R281,
			R284, R295, R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	6	R159, R259, R336, R367, R436,
		1	R467
A10265-10021	10. KOHM .25W 1 MF T/R	20	R100, R101, R102, R104, R160,
		<u> </u>	R163, R178, R191, R200, R201,
			R202, R204, R260, R263, R278,
			R291, R337, R371, R437, R471,
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
410203-10031		10	R219, R230, R231, R4, R7
	10.5KOHM .25W 1% MF T/R	<u> </u>	R118, R218
A10265-10521		2	
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-11821	11.8 KOHM .25W 1% MF T/R	2	R108, R208
A10265-14321	14.3 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM . 25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
			R280, R292, R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
			R274, R5, R6
A10265-27401	274. OHM 25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-28701	287. OHM . 25W 1% MF T/R	2	R333, R433
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-32421	32.4KOHM .25 1% MF T/R	4	R188, R288, R302, R402
A10265-332421	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35711			
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305, R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304, R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-49931	499KOHM .25W 1% MF T/R	2	R332, R432
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM .25W 1 MF T/R	8	R142, R145, R146, R147, R242,
			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
		1	R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
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	PARTS LIS		
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10266-1031	10. KOHM .25W 5% CF T/R	18	R153, R156, R253, R256, R343,
			R345, R347, R348, R349, R352,
			R357, R443, R445, R447, R448,
			R449, R452, R457
A10266-1041	100. KOHM .25W 5% CF25 T/R	10	R148, R151, R248, R251, R308,
			R325, R338, R408, R425, R438,
A10266-1051	1.0 MOHM .25W 5 CF T/R	3	R10, R8, R9
A10266-1211	120. OHM .25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307,R323,R407,R423
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272
A10266-1831	18. KOHM .25W 5% CF T/R	4	R334,R370,R434,R470
A10266-2031	20. KOHM .25W 5 CF T/R	6	R341,R351,R358,R441,R451,
			R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	4	R322, R335, R422, R435
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235,
			R238
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227, R254, R257
A10266-2731	27. KOHM.25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	2	R342,R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315, R316, R317, R324, R368,
			R369, R410, R411, R413, R415,
			R416, R417, R424, R468, R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339,R344,R346,R353,R354,
			R355,R356,R439,R444,R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM .25W 5% CF T/R	2	R330,R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326,R340,R426,R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271
A10266-6831	68. KOHM .25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327, R427
A10266-8211	820. OHM .25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM . 25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
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	PARTS LIS		
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10434-104JD	.1UF 250V 5% MTL POLY FILM T		C164, C264
2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	52	D100, D101, D102, D103, D104,
			D105, D106, D107, D108, D109,
		ļ	D111, D112, D115, D116, D118,
			D119, D121, D122, D123, D124,
			D125, D127, D130, D131, D133,
			D134, D200, D201, D202, D203,
			D204, D205, D206, D207, D208,
			D209, D211, D212, D215, D216,
			D218, D219, D221, D222, D223,
			D224, D225, D227, D230, D231,
			D233, D234
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3549-0	DIODE, 1N961B 10V ZENER T/R	2	D135, D235
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			Q230
C 3625-8	2N4125 30V PNP T/R	22	0100,0101,0114,0116,0118,
			0120,0122,0123,0124,0125,
		1	Q129,Q200,Q201,Q214,Q216,
			Q218,Q220,Q222,Q223,Q224,
······			0225,0229
C 3786-8	MPS4250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
L 3/80-0	MF34230A 40V 111 1711		Q208, Q211, Q215
C 2010 C	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
C 3810-6	MF3A42 300V NFN 17A	+	0227
	A THE DEV ARY TANT CAR	2	C155, C255
C 4019-3	4.7UF 35V 10% TANT CAP		
C 4303-1	1000UF 35V AXIAL CAP	2	
C 4345-2	LM339N VOLT COMPARATOR	2	U107,U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T		D8
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096-0	MC7915CT -15V. REG	1	U2
C 5215-6	22. MOHM .25W 5 THICK FILM T		R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107, C207
C 5362-6	2.2UF 50V VERT ELECT T/A	З	C151, C251, C4
C 5891-4	MTS105 THERMAL SENSE T/R	4	Q107,Q110,Q207,Q210
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
C 6411-0	H11C2 OPTO SCR	2	U106,U206
C 6564-6	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STEREO SWITCH	1	S2
C 6802-0	.47UF 50V AXIAL CER T/R 474	10	C141, C145, C152, C154, C169,
		1	
		1	
			<u></u>
I	For Reference Use Only	II	NTERNATIONAL INC
	1718 WEST MISHAWAKA	ROAD	ELKHART, INDIANA 46517 PHONE (219) 294-6
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		PAH	S LIS	l	
C. P. N.	DESCRIPTION			QTY	REFERENCE DESIGNATION
					C241,C245,C252,C254,C269,
C 6804-6	.1UF 50V AXI	AL CER T/	R 104	20	C134, C135, C136, C137, C138,
					C139, C144, C160, C161, C234,
					C235,C236,C237,C238,C239,
					C244,C267,C268,C3,C5
C 6805-3	.022UF 100V AX	IALCER T/	R 223	8	C103, C104, C115, C116, C215,
					C216,C265,C266
C 6806-1	.01UF 100V AXI	AL CER T/	R 103	6	C117, C124, C131, C217, C224,
					C231
C 6807-9	.001UF 100V 10	% AXL CER	T/R	4	C122, C123, C222, C223
C 6808-7	470.PF 100V 5%	NPO AXL	CER T	2	C120,C220
C 6810-3	180PF 100V AXI	AL CER T/	R 181	2	C121, C221
C 6811-1	100PF 200V 10%	NPO AXL	CER T	10	C126, C158, C159, C162, C163,
					C226,C258,C259,C262,C263,
C 6812-9	47PF 200V 10%	NPO AXL C	ER	16	C106,C110,C111,C112,C113,
		· · · · · · · · · · · · · · · · · · ·			C114, C128, C133, C206, C210,
					C211, C212, C213, C214, C228,
					C233
C 6813-7	27PF 200V 10%	NPO AXIAL	CER	8	C100,C101,C102,C130,C200,
					C201,C202,C230
C 6814-5	12PF 200V AXIA	L CER T/F	120	6	C118, C119, C129, C218, C219,
					C229
C 6910-1	UPA74HA/UPA76H	A NPN XSI	STOR	2	U104, U204
C 6911-9					U102, U202
C 6950-7	82PF 200V 5% N				C127, C227
C 7444-0	LM393 DUAL COM			4	U101, U108, U201, U208
C 7458-0	2N4123 30V NPN			12	Q113,Q117,Q119,Q121,Q126,
		1711		12	Q128, Q213, Q217, Q219, Q221,
					Q226, Q228
C 7526-4	3POS . 1 CENTER			1	J1
C 7558-7	MC33079P QUAD				U103, U203
<u> </u>	J202 N-CHANNEL			2	0131,0231
C 7636-1	MC33078P DUAL			2	U109, U209
C 7779-9		W 5% FU/F		8	R309, R312, R314, R318, R409,
		W 3/ 10/1	1 1711	<u> </u>	R412, R414, R418
C 7960-5	DPDT 3POS PC S		.сп	1	S1
	1N753A 6.2V .5			2	D120, D220
<u>C 8182-5</u>				6	C105, C149, C150, C205, C249,
C 8576-8	100UF 35V 10%	ALUM ELEL	.1 1/A		
0.0750.0			<u> </u>		C250 C173, C273
<u>C 8750-9</u>	10UF 16V NP EL	·· · · · · · · · · · · · · · · · · · ·		2	
<u>C 8812-7</u>	5.5" CABLE TIE			4	HW10, HW7, HW8, HW9
<u>C 8836-6</u>		5% FU/FF		4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20%	250 RAD L	ER I/	9	C109, C125, C132, C153, C209,
					C225, C232, C253, C6
<u>C 9079-2</u>	200.0HM TOP AD			2	R103, R203
C 9238-4	.0027UF 100V A			2	C170, C270
C 9464-6	10PF 100V 5% N			2	C108, C208
C 9494-3	HEATSINK, TØ22			2	U1X, U2X
C 9857-1	LED, RED T1 .1	LEAD SPA	CE T/	4	E100,E101,E200,E201
				L	<u>I</u>
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C. P. N.	DESCRIPTION			QTY	REFERENCE DESIGNATION
210208-4	100.UF 25V 20%	RAD ELEC	T T/R	4	C171, C172, C271, C272
210570-7	20 PIN HDR PICO	FLEX TIN	l	1	J2A
C10571-5	18 PIN HDR PICO	FLEX TIN	l	1	J2B
C10587-1	220UF 25V 20% N	P RAD EL	ECT T	4	C143, C148, C243, C248
C10588-9	15UF 35V 20% NP	RAD ELE	CT T/	4	C142, C147, C242, C247
D 2961-7	SPS8010 60V NPN	T/R		2	Q102,Q202
D 2962-5	MPSA18 45V NPN	T/R		2	Q112,Q212
D 6082-8	RESISTOR NETWOR	K-C		2	N100, N200
D 8680-7	CABLE, 6 INCH 1	2 PIN MT	A	2	J701, J800
D 8681-5	CABLE, 10 INCH	12 PIN N	1TA	2	J700, J801
100291-2	PWB, CT10 MAIN,			1	1
100375-1	HDR, 14PIN, VER	T, DOUBL	E	1	J901X
101051-1	5KOHM 10% LNR 2	1 DNT PC)T.1	2	R107, R207
101651-1	MC33079N QUAD O	PAMP SGS	ONLY	2	U100,U200
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		PARTS LIST	
	SC.P.N.	DESCRIPTION	MAP LOC.
1	100291-2	PWB, CT10 MAIN, , ,	
<u>C1</u>	C 4303-1 C 4303-1	1000UF 35V AXIAL CAP 1000UF 35V AXIAL CAP	<u> </u>
C2 C3		.1UF 50V AXIAL CER T/R 104	J_5
<u>C4</u>	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
C5	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
<u>C6</u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
C100	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 3
C101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
C104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	К 1
C108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
C109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
C110	C 6812-9	47PF 200V 10% NPO AXL CER	<u>K 2</u>
C111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3 L 2
C112	C 6812-9 C 6812-9	47PF 200V 10% NPO AXL CER 47PF 200V 10% NPO AXL CER	L 2
C113 C114	C 6812-9	47PF 200V 10% NPO AXL CER	
C115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
C116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
C117	C 6806-1	.01UF 100V AXIAL CER T/R 103	м з
C118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
C119	C 6814-5	12PF 200V AXIAL CER T/R 120	МЗ
C120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
C121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
C122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
C123	C 6807-9	.001UF 100V 10% AXL CER T/R	05
C124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
C125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 4
C126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u>K 4</u>
C127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	<u>K 4</u>
C128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C129	C 6814-5 C 6813-7	12PF 200V AXIAL CER T/R 120 27PF 200V 10% NPO AXIAL CER	<u> </u>
C130 C131	C 6806-1	.01UF 100V AXIAL CER T/R 103	К З
C132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К З
C133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C134	C 6804-6	.1UF SØV AXIAL CER T/R 104	P 3
C135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
C136	C 6804-6	.1UF 50V AXIAL CER T/R 104	0 2
C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
C138	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
C139	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
	***************************************		NAL INC
		1718 WEST MISHAWAKA BOAD ELKHART, INDIANA 46517	PHONE (219) 294-8
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C140		DO NOT INSTALL	04
C141	C 6802-0	.47UF 50V AXIAL CER T/R 474	04
C142	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
C144	C 6804-6	.1UF 50V AXIAL CER T/R 104	Р 3
C145	C 6802-0	.47UF 50V AXIAL CER T/R 474	P 4
C146		DO NOT INSTALL	P 4
C147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
C148	C10587-1	220UF 25V 20% NP RAD ELECT T/R	P 5
C149	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 5
C150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
C152	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 5
C153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
C154	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 6
C155	C 4019-3	4.7UF 35V 10% TANT CAP	J 5
C156		DO NOT INSTALL	M 4
C157		DO NOT INSTALL	M 4
C158	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 4
C159	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 3
C160	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 4
C161	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 3
C162	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C163	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C164	A10434-104JD	1UF 250V 5% MTL POLY FILM T/A	0 6
C169	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 6
C170	C 9238-4	.0027UF 100V AXIAL CER T/R	L 6
C171	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C173	C 8750-9	10UF 16V NP ELECTROLYTIC	J 5
C200	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 3
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C202	C 6813-7	27PF 200V 10% NPO AXIAL CER	<u> </u>
C205	C 8576-8	100UF 35V 10% ALUM ELECT T/A	н 1
C205	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
C207	C 5311-3	22UF 50V 20% NP VERT T/A	F 1
C208	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 2
C200	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	G 2
C210	C 6812-9	47PF 200V 10% NPO AXL CER	F 2
C210	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C214	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
C217	C 6806-1	.01UF 100V AXIAL CER T/R 103	
C218	C 6814-5	12PF 200V AXIAL CER T/R 120	D 3
		1411 2007 ANIAL LEN 1/N 120	
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	PRODUCED CORTED OR	AND USED DRAWN TLM 02-24-97 DWG. NO. SALE ISSION. PROJ. D360 1 0 2 9 6	SHEET 10 CONT. ON SHEET 11

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C219	C 6814-5	12PF 200V AXIAL CER T/R 120	D 3
C220	C 6808-7	470. PF 100V 5% NPO AXL CER T/R	A 5
C221	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222	C 6807-9	.001UF 100V 10% AXL CER T/R	A 5
C223	C 6807-9	.001UF 100V 10% AXL CER T/R	B 5
C224	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
C225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1	100PF 200V 10% NPO AXL CER T/R	F 4
C227	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	F 3
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C234	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>B3</u>
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C237	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>B 4</u>
C240		DO NOT INSTALL	A 4
C241	C 6802-0	.47UF 50V AXIAL CER T/R 474	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	A 4
C244	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u> </u>
C245	C 6802-0	.47UF 50V AXIAL CER T/R 474	<u>B 4</u>
C246	C18588 8	DO NOT INSTALL 15UF 35V 20% NP RAD ELECT T/R	B 4
C247	C10588-9	220UF 25V 20% NP RAD ELECT T/R	
C248	C10587-1 C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C249 C250	C 8576-8	1000F 35V 10% ALUM ELECT T/A	D 5
C250	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C253	C 6802-0	. 47UF 50V AXIAL CER T/R 474	E 6
C255	C 4019-3	4.7UF 35V 10% TANT CAP	<u> </u>
C255		DO NOT INSTALL	D 4
C257		DO NOT INSTALL	D 4
C258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	
C262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	B 6
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	
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	INACT For Reference		AL INC
		1718 WEST MISHAWAKA BOAD ELKHART INDIANA 46517	PHONE (219) 294-6
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	THE MANUEACTURE OR	ISSION. PROJ. D360 100296	CONT. ON SHEET 12

<u></u>		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u> </u>
C269	C 6802-0	.47UF 50V AXIAL CER T/R 474	<u> </u>
C270	C 9238-4	.0027UF 100V AXIAL CER	E 6
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	
C273	C 8750-9	10UF 16V NP ELECTROLYTIC	G 6
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
DG	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
D8	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	<u>I 2</u>
D100	<u>C 3181-2</u>	DIODE, 1N4148 T/R	К 2
D101	C 3181-2	DIODE, 1N4148 T/R	К 2
D102	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 3
D103	C 3181-2	DIODE, 1N4148 T/R	L 2
D104	C 3181-2	DIODE, 1N4148 T/R	М З
D105	C 3181-2	DIODE, 1N4148 T/R	М З
D106	C 3181-2	DIODE, 1N4148 T/R	М З
D107	C 3181-2	DIODE, 1N4148 T/R	МЗ
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
D109	C 3181-2	DIODE, 1N4148 T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	05
D112	C 3181-2	DIODE, 1N4148 T/R	P 5
D113	C 5061-4	DIODE, 1N3070 10K/T&R	МЗ
D114	C 5061-4	DIODE, 1N3070 10K/T&R	K 4
D115	C 3181-2	DIODE, 1N4148 T/R	K 4
D116	C 3181-2	DIODE, 1N4148 T/R	КЗ
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	J 3
D119	C 3181-2	DIODE, 1N4148 T/R	13
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	C 3181-2	DIODE, 1N4148 T/R	L 5
D123	C 3181-2	DIODE, 1N4148 T/R	L 6
D124	C 3181-2	DIODE, 1N4148 T/R	L 6
D125	C 3181-2	DIODE, 1N4148 T/R	L 6
D127	C 3181-2	DIODE, 1N4148 T/R	L 6
D128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
D129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D130	C 3181-2	DIODE, 1N4148 T/R	K 4
D131	C 3181-2	DIODE, 1N4148 T/R	КЗ
D132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D133	C 3181-2	DIODE, 1N4148 T/R	j 1
			1
	***************************************		AL INC
EDRAWINGS	AND SPECIFICATIONS MN INTERNATIONAL, PRODUCED, COPIED, THE MANUFACTURE DEVICES WITHOUT P		PHONE (219) 294-8
CHIY OF CHO	MN INTERNATIONAL,	INC. AND DRAWN TLM 02-24-97 DWG. NO. OR SALE ERMISSION. PROJ. D360 102296	SHEET 12 CONT. ON

		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D134	C 3181-2	DIODE, 1N4148 T/R	J 2
D135	C 3549-0	DIODE, 1N961B 10V ZENER T/R	J 5
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D201	C 3181-2	DIODE, 1N4148 T/R	F 2
D202	C 3181-2	DIODE, 1N4148 T/R	E 3
D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D204	C 3181-2	DIODE, 1N4148 T/R	DЗ
D205	C 3181-2	DIODE, 1N4148 T/R	DЗ
D206	C 3181-2	DIODE, 1N4148 T/R	DЗ
D207	C 3181-2	DIODE, 1N4148 T/R	DЗ
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	C 3181-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	C 3181-2	DIODE, 1N4148 T/R	B 5
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D213	C 5061-4	DIODE, 1N3070 10K/T&R	DЗ
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D217	C 5061-4	DIODE, 1N3070 10K/T&R	F 3
D218	C 3181-2	DIODE, 1N4148 T/R	G 3
D219	C 3181-2	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	АЗ
D221	C 3181-2	DIODE, 1N4148 T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N9668 16V ZENER T/R	E 5
D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	C 3181-2	DIODE, 1N4148 T/R	G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
D235	C 3549-0	DIODE, 1N961B 10V ZENER T/R	G 5
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	М 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
E201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	5.5" CABLE TIE	A 6
HW8	C 8812-7	5.5" CABLE TIE	C 6
нw9	C 8812-7	5.5" CABLE TIE	N 6
HW1 Ø	C 8812-7	5.5" CABLE TIE	P 6
J 1	C 7526-4	3POS . 1 CENTER MTA HEADER	I G
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
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	INACT		
			AL INC.
E DRAWINGS ERTY OF CRO L NOT RF PF	AND SPECIFICATIONS WN INTERNATIONAL, I PRODUCED, COPIED, O R THE MANUFACTURE O DEVICES WITHOUT PE	ARE THE NC. AND R USED DRAWN TLM 02-24-97 DWG. NO.	SHEET 13
HE BASIS FO	R THE MANUFACTURE O		CONT. ON SHEET 14

		PARTS LIST			
REF DES	C. P. N.	DESCRIPTION	MAP LOC.		
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2		
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6		
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6		
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	B 6		
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6		
J901X	100375-1	HDR, 14PIN, VERT, DOUBLE ROW	H 4		
N100	D 6082-8	RESISTOR NETWORK-C	L 3		
N200	D 6082-8	RESISTOR NETWORK-C	E 3		
Q100	C 3625-8	2N4125 30V PNP T/R	K 2		
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	К 2		
Q102	D 2961-7	SP58010 60V NPN T/R	M 4		
Q1Ø3	C 3786-8	MPS4250A 40V PNP T/R	M 2		
Q1Ø4	C 3578-9	MPSA93 200V PNP T/R	МЗ		
Q105	C 3810-6	MPSA42 300V NPN T/R	M 2		
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2		
Q107	C 5891-4	MTS105 THERMAL SENSE T/R	05		
0108	C 3786-8	MPS4250A 40V PNP T/R	05		
Q109	C 3810-6	MPSA42 300V NPN T/R	M 4		
Q110	C 5891-4	MTS105 THERMAL SENSE T/R	05		
Q111	C 3786-8	MPS4250A 40V PNP T/R	05		
0112	D 2962-5	MPSA18 45V NPN T/R	К 4		
Q113	C 7458-0	2N4123 30V NPN T/R	J 4		
Q114	C 3625-8	2N4125 30V PNP T/R	JЗ		
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ		
0116	C 3625-8	2N4125 30V PNP T/R			
0117	C 7458-0	2N4123 30V NPN T/R			
0118	C 3625-8	2N4125 30V PNP T/R	M 5		
0119	C 7458-0	2N4123 30V NPN T/R	M 5		
0120	C 3625-8	2N4125 30V PNP T/R	M 4		
<u>q121</u>	C 7458-0	2N4123 30V NPN T/R	M 4		
0122	C 3625-8	2N4125 30V PNP T/R	M 4		
0123	C 3625-8	2N4125 30V PNP T/R	M 5		
0124	C 3625-8	2N4125 30V PNP T/R	M 4		
Q125	C 3625-8	2N4125 30V PNP T/R	M 4		
0126	C 7458-0	2N4123 30V NPN T/R	L 4		
0127	C 3810-6	MPSA42 300V NPN T/R	К 4		
0128	C 7458-0	2N4123 30V NPN T/R	M 4		
0129	C 3625-8	2N4125 30V PNP T/R	M 4		
0130	C 3578-9	MPSA93 200V PNP T/R			
0131	C 7597-5	J202 N-CHANNEL JFET	L 4 		
0200	C 3625-8	2N4125 30V PNP T/R	F 2		
0201	C 3625-8	2N4125 30V PNP T/R	F 2		
0202	D 2961-7	SPS8010 60V NPN T/R	D 4		
0203	C 3786-8	MPS4250A 40V PNP T/R	D 4		
<u>u203</u> 0204	C 3578-9	MPS4250A 40V PNP 1/R MPSA93 200V PNP T/R	D 2		
0205	C 3810-6	MPSA93 200V PNP 1/R MPSA42 300V NPN T/R	3		
	C 3578-9				
0206	L 33/0-9	MPSA93 200V PNP T/R	<u> </u>		
	INAC				
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ENIT OF CROV	MN INIERNATIONAL, I	NC. AND DRAWN TLM 02-24-97 DWG. NO.	SHEET 14		

		PARTS LIST	<u> </u>
REF DES		DESCRIPTION	MAP LOC.
0207	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0208	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	D 4
0210	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0211	C 3786-8	MPS4250A 40V PNP T/R	85
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	<u> </u>
0214	C 3625-8	2N4125 30V PNP T/R	<u> </u>
Q215 Q216	C 3786-8 C 3625-8	MPS4250A 40V PNP T/R 2N4125 30V PNP T/R	F 3 B 1
Q217	C 7458-0	2N4125 30V PNP 1/R 2N4123 30V NPN T/R	B 1
0218	C 3625-8	2N4125 30V NFN 17R	
Q218 Q219	C 7458-0	2N4123 30V PNP 1/R	
	C 3625-8	2N4125 30V NFN 17R	
0220			
Q221 Q222	C 7458-0 C 3625-8	2N4123 30V NPN T/R 2N4125 30V PNP T/R	
0223	C 3625-8	2N4125 30V PNP 1/R 2N4125 30V PNP T/R	D 5
<u>uzza</u>	C 3625-8	2N4125 30V PNP 1/R 2N4125 30V PNP T/R	D 5
0225	C 3625-8	2N4125 30V PNP 1/R 2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4125 30V PNP 1/R 2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
Q228	C 7458-0	2N4123 300 NPN T/R	D 4
0229	C 3625-8	2N4123 30V NPN 1/H 2N4125 30V PNP T/R	D 4 D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
Q231	C 7597-5	J202 N-CHANNEL JFET	<u> </u>
Q231 R1	A10265-46421		E 2
R2	A10265-53621		F 2
R4	A10265-10031	100. KOHM .25W 1 MF T/R	G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	G 5
R6	A10265-24921		F 5
R7	A10265-10031		F 5
R8	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MOHM . 25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM . 25W 5 CF T/R	H 2
R11	A10266-9111	910. OHM .25W 5 CF T/R	I 2
R12	A1Ø124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	Нб
R100	A10265-10021	10. KOHM .25W 1 MF T/R	J 3
R101	A10265-10021	10. KOHM . 25W 1 MF T/R	J3
R102	A10265-10021	10. KOHM . 25W 1 MF T/R	L J J
R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
R104	A10265-10021	10. KOHM .25W 1 MF T/R	J 2
R105	A10265-49911	4.99KOHM .25W 1 MF T/R	I 3
R106	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
R107	101051-1	5K, , 10%, LINEAR W/21 DETENT	J 2
R108	A10265-11821	11.8 KOHM .25W 1% MF T/R	I 1
			1
			1
	INACT For Reference		
E DRAWINGS		THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-E
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		PARTS LIST	
	SC.P.N.	DESCRIPTION	MAP LOC.
R109		24.9 KOHM .25W 1% MF T/R	<u>I</u> 1
R110		6.98 KOHM .25W 1% MF T/R	<u>I 1</u>
R111	A10265-24921		К 2
R112	A10266-2201	22.0 OHM .25W 5 CF T/R	J 2
R113	A10265-49911		К 2
R114	A10265-10031		К 2
R115	A10265-15031		J 4
R116		10.7KOHM .25W 1% MF T/R	I 4
R117		200.KOHM . 25W 1 MF T/R	I 3
R118		10.5KOHM .25W 1% MF T/R	I 3
R119		100. KOHM . 25W 1 MF T/R	<u>K 2</u>
R120	A10266-5111	510. OHM .25W 5 CF T/R	К 2
R121	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	К 2
R122	A10266-1321	1.3 KOHM .25W 5 CF T/R	К 2
R123	A10265-49911		К 2
R124	A10266-1231	12.KOHM .25W 5% CF T/R	
R125	A10266-1231	12.KOHM .25W 5% CF T/R	
R126	A10266-2721	2.7 KOHM . 25W 5 CF T/R	
R127	A10266-2721	2.7 KOHM . 25W 5 CF T/R	L 2
R128	A10266-6831	68. KOHM .25W 5% CF T/R	
R129	A10266-6831	68. KOHM . 25W 5% CF T/R	L 3
R130	A10265-10031		
R131	A10265-10031		L 2
R132	A10266-4701	47.0 OHM .25W 5 CF T/R	
R133	A10266-4701	47.0 OHM .25W 5 CF T/R	L 2
R134	A10266-4711	470. OHM . 25W 5% CF T/R	<u>M 3</u>
R135	A10266-2201	22.0 OHM .25W 5 CF T/R	<u>M 3</u>
R136	A10266-8211	820. OHM . 25W 5% CF T/R	М З
R137	A10266-8211	820. OHM . 25W 5% CF T/R	M 2 M 2
R138	A10266-2201	22.0 OHM .25W 5 CF T/R	M 2 M 2
R139	A10266-5601	56.0 OHM .25W 5% CF T/R 4.7 KOHM .25W 5% CF T/R	P 5
R140	A10266-4721 A10266-5601		M 4
R141		56.0 OHM .25W 5% CF T/R	05
R142	A10265-66501	665. OHM .25W 1 MF T/R 274. OHM .25W 1% MF T/R	P 5
R143	A10265-27401 A10265-27401	274. OHM . 25W 1% MF T/R	05
R144			05
R145	A10265-66501 A10265-66501	665. OHM .25W 1 MF T/R 665. OHM .25W 1 MF T/R	05
R146	A10265-66501	665. OHM . 25W 1 MF T/R	05
R147		100. KOHM .25W 1 MF 1/R	P 5
R148	A10266-1041 A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
R149	A10265-35711	3.57KOHM .25W 1 MF 1/R	0 5
R150	A10265-35711 A10266-1041	100. KOHM .25W 1 MF 1/H 100. KOHM .25W 5% CF25 T/R	05
R151 R152	C 8836-6	100 OHM .5W 5% FU/FP T/R	K 4
	A10266-1031	10. KOHM .25W 5% CF T/R	K 4
R153			К 3
R154	A10266-2721		К З
R155	C 8836-6	100 OHM .5W 5% FU/FP T/R	
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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R156	A10266-1031	10. KOHM .25W 5% CF T/R	КЗ
R157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
R158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
R159	A10265-10011	1.0 KOHM .25W 1 MF T/R	КЗ
R160	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
R161	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
R162	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
7163	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
R164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
R165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
R166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
3169	A10265-27431	274.KOHM .25W 1% MF T/R	J 2
R170	A10265-95311	9.53KOHM .25W 1% MF T/R	J 2
R171	A10266-5621	5.6 KOHM .25W 5% CF T/R	Р 3
R172	A10266-1541	150. KOHM .25W 5% CF T/R	03
R173	A10265-17821	17.8KOHM .25W 1% MF T/R	03
R174	A10265-24921	24.9 KOHM .25W 1% MF T/R	03
R175	A10265-49911	4.99KOHM .25W 1 MF T/R	03
R176	A10265-68111	6.81KOHM .25W 1% MF T/R	03
7177	A10265-33221	33.2KOHM .25W 1% MF T/R	04
3178	A10265-10021	10. KOHM .25W 1 MF T/R	04
R179	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
7180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R181	A10265-10001	100. OHM .25W 1 MF T/R	0 2
7182	A10265-51121	51.1 KOHM .25W 1% MF T/R	02
R183	A10265-68111	6.81KOHM .25W 1% MF T/R	02
R184	A10265-10001	100. OHM .25W 1 MF T/R	02
R185	A10266-2741	270. KOHM .25W 5% CF25 T/R	0 2
7186	C 5062-2	100KOHM LINEAR TRIMPOT	02
R187	A10265-14321	14.3 KOHM .25W 1% MF T/R	04
R188	A10265-32421	32.4KOHM .25 1% MF T/R	04
R189	A10265-19121	19.1KOHM .25W 1% MF T/R	04
R190	A10265-33221	33.2KOHM .25W 1% MF T/R	Р 3
7191	A10265-10021	10. KOHM .25W 1 MF T/R	Р 3
R192	A10265-20011	2.0 KOHM .25W 1% MF T/R	Р 3
7193	A10265-20011	2.0 KOHM .25W 1% MF T/R	P 4
R194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
7195	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
7197	A10265-68111	6.81KOHM .25W 1% MF T/R	P 2
R198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R199	A10266-2741	270. KOHM . 25W 5% CF25 T/R	P 2
7200	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
7202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
	INACTIV	E	
	For Reference Use		NAL INC. PHONE (219) 294-80
:OTV OE COO!	ND SPECIFICATIONS AR		SHEET 17
NOT BE REP	PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	$\begin{array}{c c} \text{SED} \\ \text{ALE} \\ \text{SSION.} \\ \text{PROJ.} \\ \text{D360} \\ 1 \\ 0 \\ 2 \\ 9 \\ 1 \\ 0 \\ 2 \\ 9 \\ 1 \\ 0 \\ 2 \\ 9 \\ 1 \\ 0 \\ 0 \\ 2 \\ 9 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	

		PARTS LIST	
	SC.P.N.	DESCRIPTION	MAP LOC.
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	<u>H 1</u>
R204	A10265-10021		G 2
R205	A10265-49911		НЗ
R206	A10265-49911		НЗ
R207	101051-1	5K, , 10%, LINEAR W/21 DETENT	F 2
R208	A10265-11821		<u>H 1</u>
R209	A10265-24921		H 1
R210		6.98 KOHM .25W 1% MF T/R	<u>H 1</u>
R211	A10265-24921		F 2
R212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
R213	A10265-49911		F 2
R214	A10265-10031		F 2
R215	A10265-15031		G 4
R216	the second s	10.7KOHM .25W 1% MF T/R	H 4
R217		200.KOHM .25W 1 MF T/R	НЗ
R218	A10265-10521		НЗ
R219	A10265-10031	100. KOHM . 25W 1 MF T/R	F 2
R220	A10266-5111	510. OHM . 25W 5 CF T/R	F 2
R221	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	F 2
R222	A10266-1321	1.3 KOHM . 25W 5 CF T/R	F 2
R223	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R224	A10266-1231	12.KOHM .25W 5% CF T/R	E 3
R225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
R226	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
R227	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 2
R228	A10266-6831	68. KOHM . 25W 5% CF T/R	E 3 E 3
R229	A10266-6831	68. KOHM . 25W 5% CF T/R	E 3
R230	A10265-10031 A10265-10031		E 2
R231			E 4
R232	A10266-4701	47.0 OHM .25W 5 CF T/R 47.0 OHM .25W 5 CF T/R	E 2
R233 R234	A10266-4711	470. OHM .25W 5% CF T/R	D 3
		22.0 OHM .25W 5 CF T/R	D 3
R235 R236	A10266-2201 A10266-8211	820. OHM .25W 5% CF T/R	D 3
R236	A10266-8211	820. OHM .25W 5% CF T/R	D 3
	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
R238 R239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
R239 R240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
R241 R242	A10265-66501	665. OHM .25W 1 MF T/R	85
R242	A10265-27401	274. OHM .25W 1 MF T/R	A 5
R243	A10265-27401	274. OHM .25W 1% MF T/R	B 5
R244 R245	A10265-66501	665. OHM . 25W 1 MF T/R	B 5
R245	A10265-66501	665. OHM . 25W 1 MF T/R	B 5
R246 R247	A10265-66501	665. OHM .25W 1 MF T/R	85
R247	A10265-00501	100. KOHM .25W 1 MF 1/H	A 5
	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5 A 5
R249	A10203-33/11		
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	For Referen		AL INC
SE DRAWING	S AND SPECIFICATIONS AF ROWN INTERNATIONAL, INC REPRODUCED, COPIED, OR FOR THE MANUFACTURE OR OR DEVICES WITHOUT PERM OR DEVICES WITHOUT PERM	ITIB WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8 SHEET 18
		DRAWN TLM 02-24-97 DWG. NO.	

		PARTS LIST DESCRIPTION	MAP LOC.
REF DES	L.P.N. A10265-35711	3.57KOHM .25W 1 MF T/R	B 5
R250 R251	A10265-33711 A10266-1041	100. KOHM .25W 5% CF25 T/R	B 5
	C 8836-6	100. CHM . 25W 5% CF25 1/R 100 OHM . 5W 5% FU/FP T/R	F 4
R252		10. KOHM . 25W 5% CF T/R	E 4
R253	A10266-1031		E 3
R254	A10266-2721		<u> </u>
R255	C 8836-6	100 OHM .5W 5% FU/FP T/R	E 3
R256	A10266-1031	10. KOHM .25W 5% CF T/R	
R257	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
R258	A10266-3021	3.0 KOHM .25W 5 CF T/R	G 4
R259	A10265-10011	1.0 KOHM .25W 1 MF T/R	F 3
R260	A10265-10021		<u>G 3</u>
R261	A10266-4721	4.7 KOHM .25W 5% CF T/R	<u>G3</u>
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R263	A10265-10021		G 3
R264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 3
R265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
R266	A10265-95311	9.53KOHM .25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
R270	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
R271	A10266-5621	5.6 KOHM .25W 5% CF T/R	В 3
R272	A10266-1541	150. KOHM .25W 5% CF T/R	АЗ
R273	A10265-17821	17.8KOHM .25W 1% MF T/R	A 3
R274	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 3
R275	A10265-49911	4.99KOHM .25W 1 MF T/R	АЗ
R276	A10265-68111	6.81KOHM .25W 1% MF T/R	A 3
R277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
R278	A10265-10021		A 4
R279	A10265-20011		АЗ
R280		2.0 KOHM .25W 1% MF T/R	A 3
R281	A10265-10001		A 2
R282	A10265-51121		A 2
R283	A10265-68111		A 2
R284	A10265-10001		A 2
		270. KOHM .25W 5% CF25 T/R	A 2
R285	A10266-2741		
R286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
R287	A10265-14321		A 4
R288	A10265-32421	32.4KOHM .25 1% MF T/R	A 4
R289	A10265-19121	19.1KOHM .25W 1% MF T/R	A 4
R290	A10265-33221	33.2KOHM .25W 1% MF T/R	B 3
R291	A10265-10021	10. KOHM .25W 1 MF T/R	<u> </u>
R292	A10265-20011	2.0 KOHM .25W 1% MF T/R	B 4
R293	A10265-20011	2.0 KOHM .25W 1% MF T/R	B 4
R294	A10265-68111	6.81KOHM .25W 1% MF T/R	В 3
R295	A10265-10001	100. OHM .25W 1 MF T/R	B 2
R296	A10265-51121	51.1 KOHM .25W 1% MF T/R	B 2
		CTIVE nce Use Only CROWN INTERNATION	AL INC
		1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
SE DRAWINGS	AND SPECIFICATIONS AF WN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM		SHEET 19
LL NUI BE HEI	R THE MANUEACTURE OR	SALE $PROJ.$ D360 100296	CONT. ON Sheet 20

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R297	A10265-68111	6.81KOHM .25W 1% MF T/R	<u>B 2</u>
R298	A10265-10001		B 2
R299	A10266-2741	270. KOHM .25W 5% CF25 T/R	82
R300	C 5062-2	100KOHM LINEAR TRIMPOT	P 2
R301	A10265-14321	14.3 KOHM .25W 1% MF T/R	P 4
R302		32.4KOHM .25 1% MF T/R	P 4
R303	A10265-19121	19.1KOHM .25W 1% MF T/R	P 4
R304	A10265-39221		P 4
R305	A10265-35731		P 4
R306	A10266-3021	3.0 KOHM .25W 5 CF T/R	0 1
R307	A10266-1521	1.5 KOHM .25W 5% CF T/R	0 1
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R	0 1
R309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R312	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R319	A10266-2731	27. KOHM .25W 5 CF T/R	N 5
R320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R322	A10266-2051	2.0 MOHM .25W 5 CF T/R	К 5
R323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
R324	A10266-4711	470. OHM .25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM .25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
R327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
R328	A10266-8231	82. KOHM .25W 5% CF T/R	L 5
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R330	A10266-4741	470. KOHM .25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM .25W 5% CF T/R	L 5
R332	A10265-49931	499KOHM .25W 1% MF T/R	L 6
R333	A10265-28701	287. OHM .25W 1% MF T/R	L 6
R334	A10266-1831	18. KOHM .25W 5% CF T/R	L 6
R335	A10266-2051	2.0 MOHM .25W 5 CF T/R	J 6
R336	A10265-10011	1.0 KOHM .25W 1 MF T/R	К 6
R337	A10265-10021	10. KOHM .25W 1 MF T/R	J 6
R338	A10266-1041	100. KOHM .25W 5% CF25 T/R	J 6
R339	A10266-4731	47. KOHM .25W 5% CF25 T/R	JG
R340	A10266-5121	5.1 KOHM .25W 5 CF T/R	L 6
R341	A10266-2031	20. KOHM .25W 5 CF T/R	L 6
R342	A10266-3921	3.9 KOHM .25W 5% CF T/R	L 5
R343	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
	INACTI For Reference U		
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-80 SHEET 20

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R345	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
R346	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R347	A10266-1031	10. KOHM . 25W 5% CF T/R	<u>L 4</u>
R348	A10266-1031	10. KOHM . 25W 5% CF T/R	L 4
R349	A10266-1031	10. KOHM .25W 5% CF T/R 47.0 OHM .25W 5 CF T/R	
R350	A10266-4701		L 5
R351	A10266-2031	20. KOHM . 25W 5 CF T/R	<u>K 4</u>
R352	A10266-1031	10. KOHM . 25W 5% CF T/R	
R353	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R354	A10266-4731	47. KOHM .25W 5% CF25 T/R	
R355	A10266-4731	47. KOHM .25W 5% CF25 T/R	
R356	A10266-4731 A10266-1031	47. KOHM . 25W 5% CF25 T/R	
		10. KOHM . 25W 5% CF T/R	L 5
R358	A10266-2031	20. KOHM . 25W 5 CF T/R	
R359	A10265-10R01	10.0 OHM .25W 1 MF T/R 120. OHM .25W 5 CF T/R	N 4
R360	A10266-1211		
R361	C 6048-0	500 OHM PIHER TRIM	<u>N 4</u>
R362	A10265-10R01		<u>N 4</u>
R363	A10265-30111		<u>N 3</u>
R364		18.2KOHM .25W 1% MF T/R	<u>N 3</u>
R365	A10265-30111	3.01KOHM .25W 1 MF T/R	<u>N 3</u>
R366		18.2KOHM .25W 1% MF T/R	<u>N 3</u>
R367	A10265-10011		<u>N 3</u>
R368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R369 R370	A10266-4711 A10266-1831	470. OHM .25W 5% CF T/R 18. KOHM .25W 5% CF T/R	<u> </u>
R370			L 6 J 5
R400	A10265-10021 C 5062-2	10. KOHM25W 1_MF_T/R 100KOHM_LINEAR_TRIMPOT	82
R401	A10265-14321		B 4
R402		32.4KOHM . 25 1% MF T/R	B 4
R403		19.1KOHM . 25W 1% MF T/R	B 4
R404		39.2KOHM .25W 1% MF T/R	B 4
R405	A10265-35731	357.KOHM . 25W 1 MF T/R	85
R406	A10265-3021	3.0 KOHM . 25W 5 CF T/R	B 1
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	B 1
R408	A10266-1041	100. KOHM . 25W 5% CF25 T/R	B 1
R409	C 7779-9	22. OHM . 25W 5% EU/EP T/R	
R410	A10266-4711	470. OHM . 25W 5% CF T/R	
R410	A10266-4711	470. OHM .25W 5% CF T/R	<u> </u>
R412	C 7779-9	22. OHM . 25W 5% CF 1/R	<u> </u>
R412	A10266-4711	470. OHM . 25W 5% CF T/R	
R414	C 7779-9	22. OHM . 25W 5% FU/FP T/R	
R414	A10266-4711	470. OHM .25W 5% CF T/R	
R415	A10266-4711	470. OHM .25W 5% CF T/R	
R410	A10266-4711	470. OHM .25W 5% CF T/R	
R417	C 7779-9	22. OHM .25W 5% FU/FP T/R	
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	For Reference Us		AL INC.
E DRAWINGS	AND SPECIFICATIONS AR MN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
EBTY OF CON	INTERNATIONAL INC	DRAWN TLM 02-24-97 DWG. NO.	SHEET 21

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM . 25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM . 25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM . 25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM . 25W 5% CF T/R	E 5
R429	A10265-51121		E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R432		499KOHM .25W 1% MF T/R	E 6
R433	A10265-28701		E 6
R434	A10266-1831	18. KOHM . 25W 5% CF T/R	E 6
R435	A10266-2051	2.0 MOHM . 25W 5 CF T/R	G 6
R436	A10265-10011		F 6
R437	A10265-10021	10. KOHM . 25W 1 MF T/R	G 6
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM . 25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-2031	20. KOHM . 25W 5 CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
R458	A10266-2031	20. KOHM . 25W 5 CF T/R	E 4
R459	A10265-10R01	10.0 OHM .25W 1 MF T/R	С 3
R460	A10266-1211	120. OHM . 25W 5 CF T/R	СЗ
R461	C 6048-0	500 OHM PIHER TRIM	
R462	A10265-10R01	10.0 OHM .25W 1 MF T/R	
R463	A10265-30111	3.01K0HM .25W 1 MF T/R	СЗ
R464	A10265-18221	18.2KOHM . 25W 1% MF T/R	С 3
R465	A10265-30111	3.01K0HM .25W 1 MF T/R	СЗ
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	INACT For Reference		JAL INC
		1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
E DRAWINGS	AND SPECIFICATIONS AR		SHEET 22

REF DES		PARTS LIST DESCRIPTION	MAP LOC.
R466		18.2KOHM .25W 1% MF T/R	C 3
R467	A10265-10011	1.0 KOHM . 25W 1 MF T/R	
R468	A10265-4711	470. OHM .25W 5% CF T/R	<u> </u>
R469	A10266-4711	470. OHM . 25W 5% CF T/R	G 4
R470	A10266-1831	18. KOHM . 25W 5% CF T/R	E 6
R471	A10265-10021	10. KOHM . 25W 1 MF T/R	Нб
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	I 1
52	C 6781-6	6P3T MONO/STEREO SWITCH	
J2 TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	Кб
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
U1	C 5095-2	MC7815CT +15V. REG	НБ
U1 X	C 9494-3	HEATSINK, TØ220 PLUG IN	Н 5
U2	C 5096-0	MC7915CT -15V. REG	I 5
U2X	C 9494-3	HEATSINK, TØ220 PLUG IN	I 5
U3		INSTALLED ON NEXT ASSEMBLY	H 2
изх	C 3451-9	IC SOCKET, 8PIN DIP 2-640463-3	H 2
U100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J 3
U101	C 7444-0	LM393 DUAL COMPARATOR	03
U102A	C 6911-9	UPA75HA/UPA77HA DUAL XSISTOR	0 2
U103	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	04
U104A	C 6910-1	UPA74HA/UPA76HA NPN XSISTOR	P 2
U106	C 6411-0	H11C2 OPTO SCR	M 5
U107	C 4345-2	LM339N VOLT COMPARATOR	К 5
U108	C 7444-0	LM393 DUAL COMPARATOR	КБ
U109	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	N 3
U200	101651-1	MC33079N QUAD OP AMP SGS ONLY	G 3
U201	C 7444-0	LM393 DUAL COMPARATOR	A 3
U202A	C 6911-9	UPA75HA/UPA77HA DUAL XSISTOR	A 2
U203	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	A 4
U204A	C 6910-1	UPA74HA/UPA76HA NPN XSISTOR	B 2
U206	C 6411-0	H11C2 OPTO SCR	D 5
U207	C 4345-2	LM339N VOLT COMPARATOR	F 5
U208	C 7444-0	LM393 DUAL COMPARATOR	F 6
U209	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В 3
U102		SEE NOTE 10	02
U104		SEE NOTE 10	P 2
U202		SEE NOTE 10	A 2
U204		SEE NOTE 10	B 2
Z1		DO NOT INSTALL	C 1
Z2		DO NOT INSTALL	D 1
Z3		DO NOT INSTALL	D 1
Z4		DO NOT INSTALL	D 2
Z5		DO NOT INSTALL	D 2
	INACT		
	For Reference		
EDRAWINGS	AND SPECIFICATIONS AF		PHONE (219) 294-6
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COMPONENT MAP (component side view)
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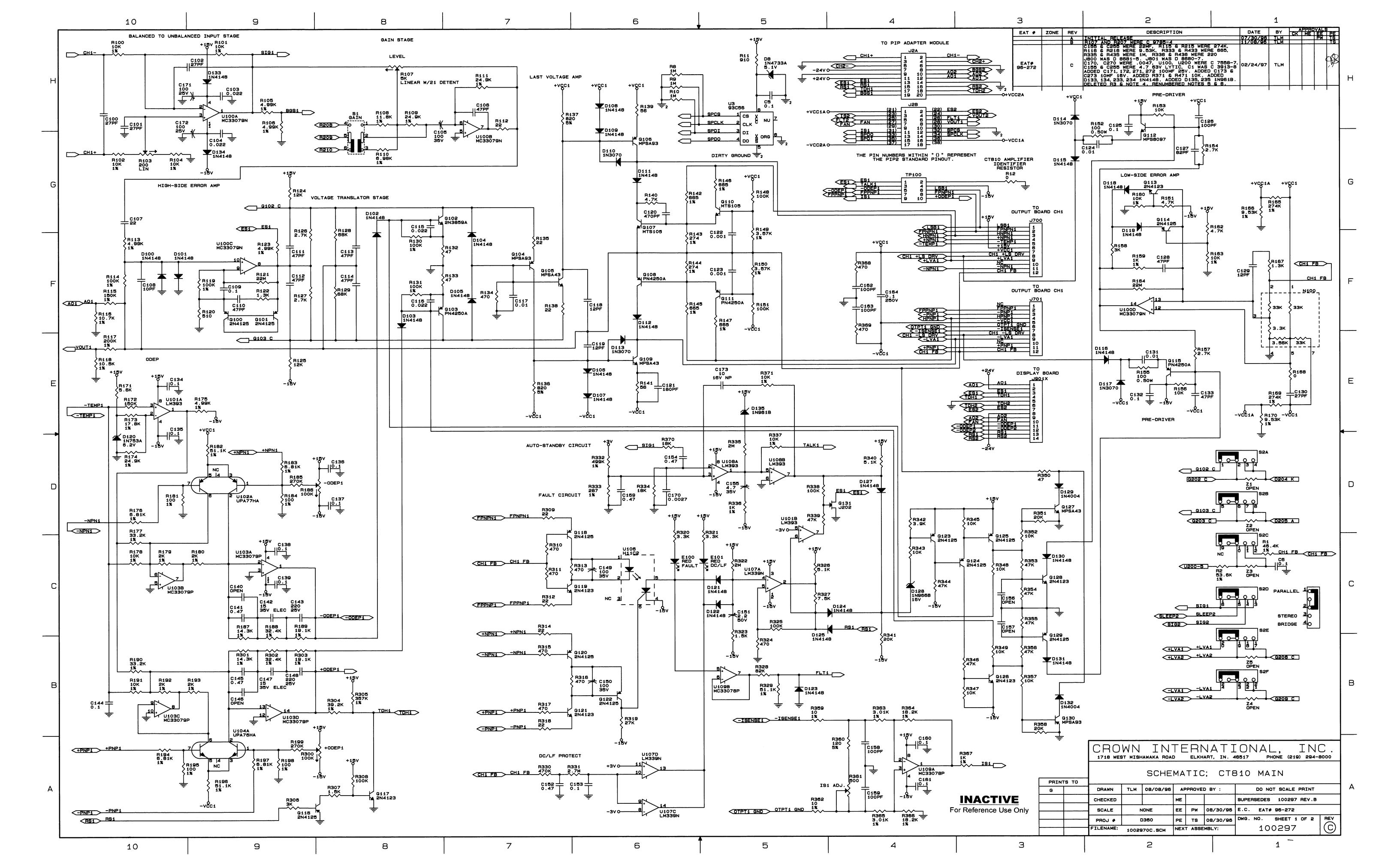
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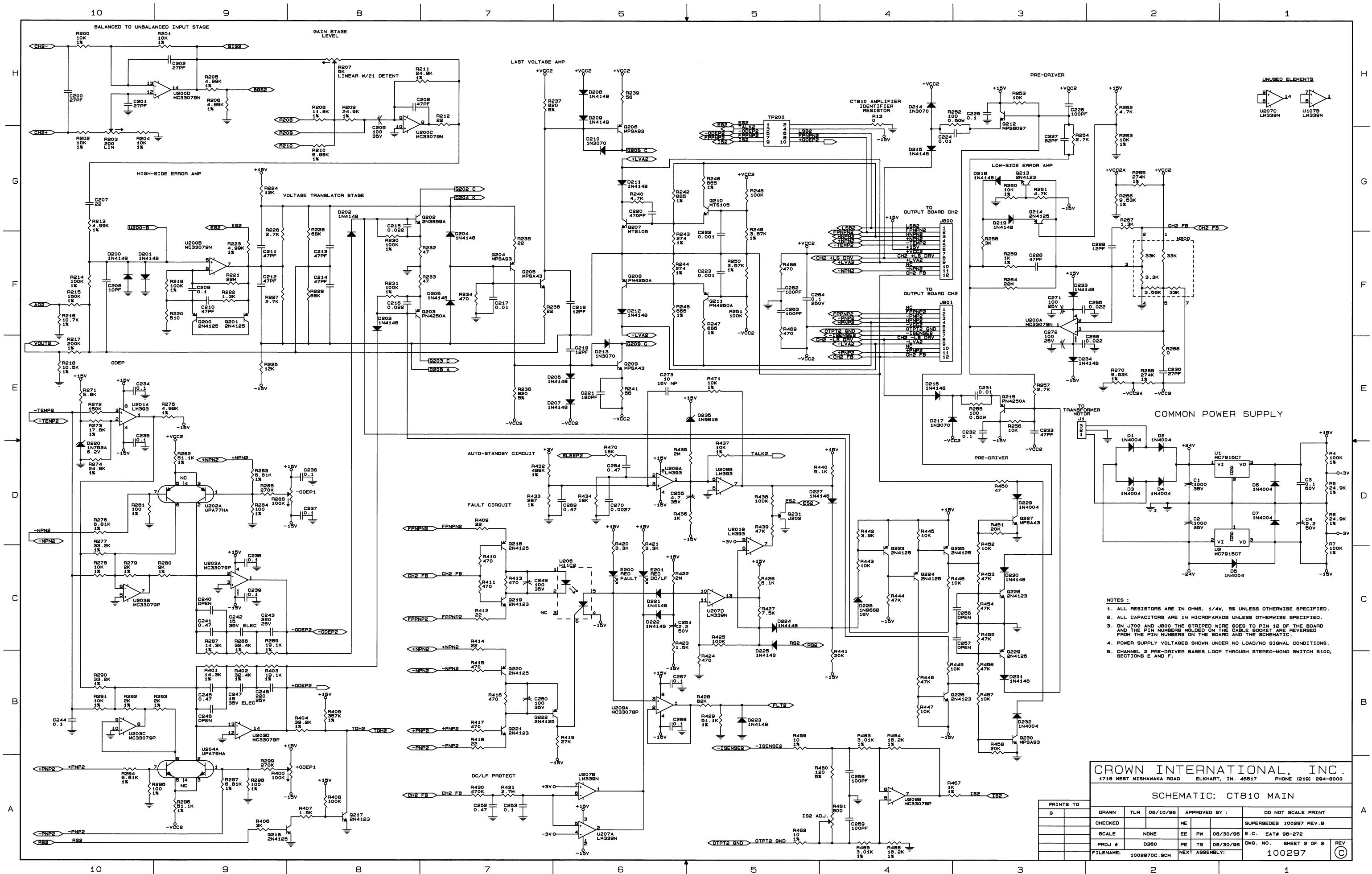
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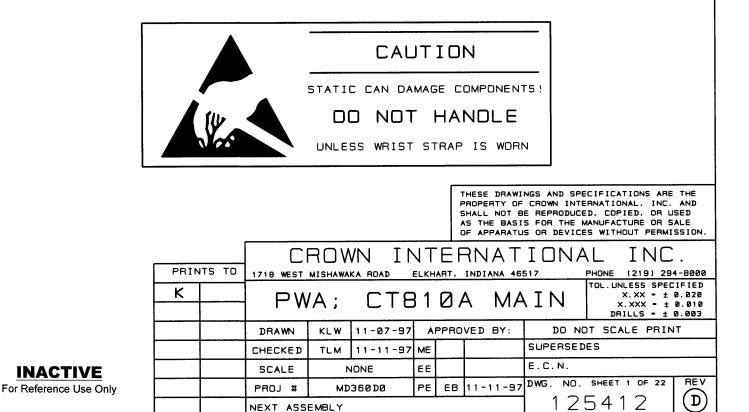
CT810A Main Module 125412 Information On Following Pages Documentation, Component Map, Schematic

	C.N. ZONE REV			DATE		APPROVALS			
E.C.N.			DNE REV. DESCRIPTION		BY	СНК	ME	EE	PE
		A	INITIAL RELEASE 125412-1.	11-07-97	KLW	TLM			EB
		B	NOTE 2 WAS 125414-1. NOTE 3 WAS 125412-1 ADDED C175,C176,C275 AND C276. C122,C123,C222 AND C223 WERE 0.001UF.	12-16-97	JAW	ĸw			EB
EAD3921		С	REMOVED NOTE 9. RE-NUMBERED NOTES.	01-12-98	JAW	кw			EB
98EØ129	1	D	R107 AND R207 WERE P/N 101051-1.	03-04-98	KLW	Jin			EB

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125408.
- 2. PRINTED WIRING BOARD PART NUMBER 125414-3.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125412-2.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT B PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- B. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES. ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



	PARTS LIS	ST	
. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
10265-10001	100. OHM .25W 1 MF T/R	9	R181, R184, R195, R198, R281,
			R284,R295,R298,R332
10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467
10265-10021	10. KOHM .25W 1 MF T/R	16	R100,R101,R102,R104,R160,
			R163,R178,R191,R200,R201,
			R202,R204,R260,R263,R278,
			R291
10265-10031	100. KOHM .25W 1 MF T/R	10	R114,R119,R130,R131,R214,
			R219, R230, R231, R4, R7
10265-10211	1.02K OHM 0.25W 1% MF T/R	4	R363,R365,R463,R465
10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
10265-10R01	10.0 OHM .25W 1 MF T/R	6	R359, R362, R367, R459, R462, R46
10265-11821	11.8K OHM 0.25W 1% MF T/R	2	R108, R208
A10265-14321	14.3K OHM 0.25W 1% MF T/R	4	R187, R287, R301, R401
10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2K OHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1K OHM 0.25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
			R280,R292,R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
410265-24921	24.9 KOHM .25W 1% MF T/R	8	R109,R111,R174,R209,R211,
			R274,R5,R6
410265-27401	274. OHM . 25W 1% MF T/R	4	R143, R144, R243, R244
410265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-32421	32.4K OHM 0.25W 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305, R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665 OHM 0.25W 1% MF T/R	8	R142, R145, R146, R147, R242,
			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
·····			R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-95311	9.53KOHM . 25W 1% MF T/R	4	R166, R170, R266, R270
A10266-1031	10. KOHM . 25W 5% CF T/R	19	R153, R156, R24, R253, R256,
			R343, R345, R347, R348, R349,
		_	R352, R357, R443, R445, R447,
			R448,R449,R452,R457
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	1718 WEST	MISHAWAKA ROAD	ELKHART, INDIANA 46517	PHONE	(219) 294-8000
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	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10266-1041	100. KOHM . 25W 5% CF25 T/R	12	R148,R151,R20,R21,R248,
			R251,R308,R325,R338,R408,
			R425, R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10, R17, R22, R8, R9
A10266-1211	120. OHM . 25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307,R323,R407,R423
A10266-1531	15. KOHM .25W 5% CF T/R	2	R341,R441
A10266-1541	150. KOHM 25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	4	R351,R358,R451,R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	3	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227, R254, R257
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320,R321,R420,R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315,R316,R317,R324,R368,
<u> </u>			R369, R410, R411, R413, R415,
			R416, R417, R424, R468, R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339,R344,R346,R353,R354,
			R355, R356, R439, R444, R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM . 25W 5% CF T/R	2	R330, R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326,R340,R426,R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271
A10266-5641	560. KOHM . 25W 5% CF T/R		R16
A10266-6831	68. KOHM . 25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM . 25W 5% CF T/R	2	R327, R427
A10266-8211	B20. OHM . 25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM . 25W 5% CF T/R	2	R328, R428
A10266-8231	910. OHM . 25W 5 CF T/R	1	R11
	.1UF 250V 5% MTL POLY FILM T		C164, C264
A10434-104JD	2200PF 100 10% POLY FILM T/A		C175, C176, C275, C276
A10579-222KC	2200FF 100 10% FULL FILM 1/A	+	
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		I TI	NTERNATIONAL INC.
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	PARTS LIS		
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
<u>C 3181-2</u>	DIODE, 1N4148 T/R	59	D10, D100, D101, D102, D103,
			D104, D105, D106, D107, D108,
			D109, D11, D111, D112, D115,
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134, D135
			D200, D201, D202, D203, D204,
			D205, D206, D207, D208, D209,
, · · · · · · · · · · · · · · · ·			D211, D212, D215, D216, D218,
·····			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234, D235, D9
C 3451-9	IC SOCKET, BPIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			Q230
C 3625-8	2N4125 30V PNP T/R	22	Q100,Q101,Q114,Q116,Q118,
			Q120,Q122,Q123,Q124,Q125,
			Q129,Q200,Q201,Q214,Q216,
			Q218,Q220,Q222,Q223,Q224,
			0225,0229
C 3786-8	MPS4250A 40V PNP T/R	8	<u>0103,0108,0111,0115,0203,</u>
		<u> </u>	Q208,Q211,Q215
C 3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			Q227
C 4303-1	1000UF 35V AXIAL CAP	2	C1,C2
C 4345-2	LM339N VOLT COMPARATOR	2	U107,U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T	1	DB
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096-0	MC7915CT -15V. REG	1	U2
C 5215-6	22. MOHM . 25W 5 THICK FILM T	4	R121,R164,R221,R264
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	2	C107,C207
C 5362-6	2.2UF 50V VERT ELECT T/A	3	C151,C251,C4
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
C 6411-0	H11C2 OPTO SCR	2	U106,U206
C 6564-6	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STEREO SWITCH	1	52
C 6802-0	. 47UF 50V AXIAL CER T/R 474	6	C141,C145,C152,C241,C245,C25
<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	20	C134,C135,C136,C137,C138,
			C139,C144,C160,C161,C234,
		ļ	C235,C236,C237,C238,C239,
			C244,C267,C268,C3,C5
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	PARTS LIS	T	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 6805-3	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
			C216, C265, C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117, C124, C131, C217, C224,
			C231
C 6808-7	470.PF 100V 5% NPO AXL CER T	2	C120,C220
C 6810-3	180PF 100V AXIAL CER T/R 181	2	C121,C221
C 6811-1	100PF 200V 10% NPO AXL CER T	14	C126,C158,C159,C162,C163,
			C173,C174,C226,C258,C259,
			C262, C263, C273, C274
C 6812-9	47PF 200V 10% NPD AXL CER	16	C106,C110,C111,C112,C113,
			C114,C128,C133,C206,C210,
			C211, C212, C213, C214, C228,
		1	C233
C 6813-7	27PF 200V 10% NPD AXIAL CER	8	C100,C101,C102,C130,C200.
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118, C119, C129, C218, C219,
			C229
C 6950-7	B2PF 200V 5% NPD AXIAL CER T	2	C127, C227
C 7417-6	3300PF 100V 10% CAP	4	C122, C123, C222, C223
C 7444-0	LM393 DUAL COMPARATOR	2	U101, U201
C 7458-0	2N4123 30V NPN T/R	16	Q107,Q110,Q113,Q117,Q119,
			Q121,Q126,Q128,Q207,Q210,
		<u> </u>	Q213, Q217, Q219, Q221, Q226,
		<u> </u>	0228
C 7526-4	3POS .1 CENTER MTA HEADER	1	J1
C 7597-5	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1	MC33078P DUAL LOW NOISE OP A		U109, U209, U4
C 7779-9	22. OHM . 25W 5% FU/FP T/R		R309, R312, R314, R318, R409,
			R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	51
C 8182-5	1N753A 6.2V .5W ZENER DIODE		D120, D220
C 8576-8	100UF 35V 10% ALUM ELECT T/A	· · · ·	C105, C149, C150, C205, C249,
	TEELF 35V TEM ALOM ELECT TA		C250
C 8803-6	.047UF 50V 10%X7R AXL CER T/	4	C141, C145, C241, C245
C 8812-7	5.5" CABLE TIE	4	HW10, HW7, HW8, HW9
C 8836-6	100 OHM 0.50W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/		C10, C109, C125, C132, C153,
	10F 100V 20% 200 HAD CEA 17	<u> </u>	
· · · · · · · · · · · · · · · · · · ·			C209,C225,C232,C253,C6, C9
C 9079-2	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
L 90/9-2 C 9464-6	10PF 100V 5% NPO RAD CER T/R	2	C108, C208
<u>C 9494-3</u>		2	
C 9615-3	680PF 100V 5% AXL CER NPO T/		
<u>C 9857-1</u>	LED, RED T1 .1 LEAD SPACE T/	4	E100, E101, E200, E201
C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>	C171, C172, C271, C272, C7,
C10570-7	20 PIN HDR PICOFLEX TIN	1	J2A
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	PARTS LIS	6T	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C10571-5	18 PIN HDR PICOFLEX TIN	1	J2B
C10587-1	220UF 25V 20% NP RAD ELEC	4	C143,C148,C243,C248
C10588-9	15UF 35V 20% NP RAD ELECT T/	4	C142, C147, C242, C247
D 2961-7	SP58010 60V NPN T/R	2	0102,0202
D 2962-5	MPSA18 45V NPN T/R	2	Q112,Q212
D 6082-8	RESISTOR NETWORK-C	2	N100, N200
D 8680-7	CABLE, 6 INCH 12 PIN MTA	2	J701, J800
D 8681-5	CABLE, 10 INCH 12 PIN MTA	2	J700, J801
100375-1	HDR, 14PIN, VERT, DOUBLE	1	J901X
101374-1	2SA1349 DUAL PNP 80V SIP	2	U102A, U202A
101375-1	2SC3381 DUAL NPN 80V SIP	2	U104A, U204A
101651-1	MC33079N QUAD OP AMP SGS ONL	-	L100, L103, L200, L203
102754-1	CD4060 14 STAGE BIN CNTR/OSC	-	U5
125414-3	PWB, CT'10A MAIN, , ,	1	1
125931-1	POT, 5KOHM 10% LNR 21 DNT	2	R107, R207
120301 1			11107,11207
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		I TL	NTERNATIONAL INC
E DRAWINGS AND SP	ECIFICATIONS ARE THE		ELKHART, INDIANA 46517 PHONE (219) 294
ERTY OF CROWN INT	ECIFICATIONS ARE THE ERNATIONAL, INC. AND ED. COPIED. OR USED MANUFACTURE OR SALE ES WITHOUT PERMISSION. PROJ. MD36	-07-97	DWG. NO. SHEET 6 OF 22 125412

	S C.P.N.	PARTS LIST	MAP LDC.
<u>165 DE</u>	125414-3	PWB, CT'10A MAIN, , ,	
21	C 4303-1	1000UF 35V AXIAL CAP	Н 4
22	C 4303-1	1000UF 35V AXIAL CAP	I 4
22	C 6804-6	.1UF 50V AXIAL CER T/R 104	J 5
2 <u>0</u> 24	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
25	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
26	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
27	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 5
28	C 9615-3	680PF 100V 5% AXL CER NPO T/R	É 6
29	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	I 6
 _10	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Н 5
2100	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 3
2101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J Z
2102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
2103	C 6805-3	.022UF 100V AXIALCER T/R 223	J Z
2104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
2105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
2106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
2107	C 5311-3	22UF 50V 20% NP VERT T/A	К 1
108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
2109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	JZ
2110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
2111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
2113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
2116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
2117	C 6806-1	.01UF 100V AXIAL CER T/R 103	М З
2118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
2119	C 6814-5	12PF 200V AXIAL CER T/R 120	МЗ
2120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
2121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
2122	C 7417-6	3300PF 100V 10% CAP	P 5
2123	C 7417-6	3300PF 100V 10% CAP	05
2124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
2125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 4
2126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	К 4
2127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	К 4
2128	C 6812-9	47PF 200V 10% NPO AXL CER	КЭ
2129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЗ
2130	C 6813-7	27PF 200V 10% NPO AXL CER	КЭ
2131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЗ
2132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЗ
2133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
2134	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
2135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
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		CROWN INTERNATI	
DRAWING	S AND SPECIFICATIONS	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 4651	7 PHONE (219) 294-
RTY OF C	ROWN INTERNATIONAL, REPRODUCED, COPIED,	ARE THE INC. AND DRAWN KLW 11-07-97 DWG. NO.	SHEET 7 OF 22

	C. P. N.	PARTS LIST	MAP LOC.
		.1UF 50V AXIAL CER T/R 104	
	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
	C 6804-6	.1UF 50V AXIAL CER T/R 104	
		.1UF 50V AXIAL CER T/R 104	P 4
2139 2140	C 6804-6	OPEN	0 4
2140	C 6802-0	.47UF 50V AXIAL CER T/R 474	0 4
2141	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
 _143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
 _144	C 6804-6	.1UF 50V AXIAL CER T/R 104	РЗ
 _145	C 6802-0	. 47UF 50V AXIAL CER T/R 474	P 4
2146	0 0002 0	OPEN	P 4
2147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
2148	C10587-1	220UF 25V 20% NP RAD ELEC T/R	P 5
2149	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 5
2150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
2151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
2152	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 5
2153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
2158	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 4
2159	C 6811-1	100PF 200V 10% NPD AXL CER T/R	N 3
2160	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 4
2161	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 3
2162	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
2163	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
2164	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	06
C171	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
2173	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 3
E174	C 6811-1	100PF 200V 10% NPD AXL CER T/R	N 3
C175	A10579-222KC	2200PF 100 10% POLY FILM T/A	N 2
C176	A10579-222KC	2200PF 100 10% POLY FILM T/A	P 2
C200	C 6813-7	27PF 200V 10% NPO AXIAL CER	GЗ
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
202	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C205	C 8576-8	100UF 35V 10% ALUM ELECT T/A	H 1
C206	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
C207	C 5311-3	22UF 50V 20% NP VERT T/A	F 1
C208	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 2
C209	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	G 2
C210	C 6812-9	47PF 200V 10% NPO AXL CER	F 2
C211	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
C213	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C214	<u>C 6812-9</u>	47PF 200V 10% NPO AXL CER	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
C216	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
C217	C 6806-1	.01UF 100V AXIAL CER T/R 103	DЗ
218	C 6814-5	12PF 200V AXIAL CER T/R 120	D 2
2219	C 6814-5	12PF 200V AXIAL CER T/R 120	DЗ
		CROWN INTERNATION	
		1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517	PHONE (219) 294-
DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR		SHEET B OF 22

	C.P.N.	PARTS LIST	MAP LOC.
12F DES	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	A 5
2220	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
2221	C 7417-6	3300PF 100V 10% CAP	A 5
2223	C 7417-6	3300PF 100V 10% CAP	B5
2223	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
2225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
2226	C 6811-1	100PF 200V 10% NPD AXL CER T/R	F 4
2220	C 6950-7	B2PF 200V 5% NPD AXIAL CER T/R	F 4
2228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
2229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
2230	C 6813-7	27PF 200V 10% NPO AXL CER	F 3
2231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
2232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
2233	C 6812-9	47PF 200V 10% NPO AXL CER	FЗ
2234	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
2235	C 6804-6	.1UF 50V AXIAL CER T/R 104	А З
2236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
2237	C 6804-6	.1UF 50V AXIAL CER T/R 104	82
238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2239	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 4
2240		OPEN	A 4
2241	C 6802-0	.47UF 50V AXIAL CER T/R 474	A 4
2242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
2243	C10587-1	220UF 25V 20% NP RAD ELEC T/R	A 4
2244	C 6804-6	.1UF 50V AXIAL CER T/R 104	83
2245	C 6802-0	.47UF 50V AXIAL CER T/R 474	B 4
246		OPEN	B 4
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	C 4
C248	C10587-1	220UF 25V 20% NP RAD ELEC T/R	C 5
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u> </u>
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	С 3
C262	C 6811-1	100PF 200V 10% NPD AXL CER T/R	<u> </u>
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u> </u>
C264		.1UF 250V 5% MTL POLY FILM T/A	86
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	С 3
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	С 3
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
C273	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	С 3
	C 6811-1	100PF 200V 10% NPD AXL CER T/R	C 2
C275		2200PF 100 10% POLY FILM T/A	A 2
C276	A10579-222KC	2200PF 100 10% POLY FILM T/A	82
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			NATIONAL INC
DRAWINGS	AND SPECIFICATIONS AR	THE	DIANA 46517 PHONE (219) 294- Sheet P OF 22
PRTY OF CRO	WN INTERNATIONAL, INC PRODUCED, COPIED, OR I R THE MANUFACTURE OR S DEVICES WITHOUT PERM		SHEET 9 OF 22

REF DES	C.P.N	PARTS LIST	MAP LOC.
)1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
)2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
)3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
)4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
05	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	4 ل
06	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	4 ل
)7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
08	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
09	C 3181-2	DIODE, 1N4148 T/R	НБ
010	C 3181-2	DIODE, 1N4148 T/R	НБ
D11	C 3181-2	DIODE, 1N4148 T/R	НБ
012	C 3181-2	DIODE, 1N4148 T/R	НБ
013	C 3181-2	DIODE, 1N4148 T/R	I G
0100	C 3181-2	DIODE, 1N4148 T/R	К 2
0101	C 3181-2	DIODE, 1N4148 T/R	К 2
0102	C 3181-2	DIODE, 1N4148 T/R	L 3
0103	C 3181-2	DIODE, 1N4148 T/R	L 2
0104	C 3181-2	DIODE, 1N4148 T/R	М З
D105	C 3181-2	DIODE, 1N4148 T/R	М З
D106	C 3181-2	DIODE, 1N4148 T/R	<u>M 3</u>
D107	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u>M 3</u>
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
D109	<u>C 3181-2</u>	DIODE, 1N4148 T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	05 P5
D112	C 3181-2	DIODE, 1N4148 T/R	M 3
D113	C 5061-4	DIODE, 1N3070 10K/T&R DIODE, 1N3070 10K/T&R	K 4
D114	C 5061-4	DIODE, 1N3070 10K/T&R DIODE, 1N4148 T/R	K 4
D115	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	КЗ
D116	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	
D119	C 3181-2	DIODE, 1N4148 T/R	J 3
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	C 3181-2	DIODE, 1N4148 T/R	L 5
D123	C 3181-2	DIODE, 1N4148 T/R	L 6
D124	C 3181-2	DIODE, 1N4148 T/R	L 6
D125	C 3181-2	DIODE, 1N4148 T/R	L 6
D127	C 3181-2	DIODE, 1N4148 T/R	L 6
D128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
D129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D130	C 3181-2	DIODE, 1N4148 T/R	К 4
D131	C 3181-2	DIODE, 1N4148 T/R	КЗ
D132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D133	C 3181-2	DIODE, 1N4148 T/R	J 1
D134	C 3181-2	DIODE, 1N4148 T/R	J Z
D135	C 3181-2	DIODE, 1N4148 T/R	К 5
		CROWN INTERNAT	
DRAWINGS	AND SPECIFICATIONS WN INTERNATIONAL, PRODUCED, COPIED, R THE MANUFACTURE DEVICES WITHOUT F	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 48 INC. AND DRAWN KLW 11-07-97 DWG. NO.	SHEET 10 OF 22

D200 C 3181-2 DIODE. 1N4148 T/R F 2 D201 C 3181-2 DIODE. 1N4148 T/R F 2 D202 C 3181-2 DIODE. 1N4148 T/R E 3 D203 C 3181-2 DIODE. 1N4148 T/R D 3 D204 C 3181-2 DIODE. 1N4148 T/R D 3 D205 C 3181-2 DIODE. 1N4148 T/R D 3 D206 C 3181-2 DIODE. 1N4148 T/R D 3 D207 C 3181-2 DIODE. 1N4148 T/R D 2 D208 C 3181-2 DIODE. 1N4148 T/R D 2 D210 C 5061-4 DIODE. 1N4148 T/R D 2 D211 C 3181-2 DIODE. 1N4148 T/R D 2 D213 C 5061-4 DIODE. 1N3070 10K/T&R D 3 D214 C 5061-4 DIODE. 1N3070 10K/T&R D 3 D214 C 5061-4 DIODE. 1N3070 10K/T&R D 3 D214 C 5061-4 DIO			PARTS LIST DESCRIPTION	MAP LDC.
D221 C D10DE 1N4148 T/R F 2 D222 C S181-2 D10DE 1N4148 T/R E 3 D223 C S181-2 D10DE 1N4148 T/R D 3 D226 C S181-2 D10DE 1N4148 T/R D 3 D205 C S181-2 D10DE 1N4148 T/R D 3 D206 C S181-2 D10DE 1N4148 T/R D 3 D207 C S181-2 D10DE 1N4148 T/R D 2 D216 C S181-2 D10DE 1N4148 T/R D 2 D211 C S181-2 D10DE 1N4148 T/R A 5 D212 C S181-2 D10DE 1N4148 T/R A 5 D217 C S181-2 D10DE 1N4148 T/R F				
D202 C 3181-2 D10DE 1N4148 T/R E 3 D203 C 3181-2 D10DE IN4148 T/R D 3 D205 C 3181-2 D10DE IN4148 T/R D 3 D205 C 3181-2 D10DE IN4148 T/R D 3 D207 C 3181-2 D10DE IN4148 T/R D 3 D207 C 3181-2 D10DE IN4148 T/R D 3 D208 C 3181-2 D10DE IN4148 T/R D 2 D218 C 3181-2 D10DE IN3070 18K/T&R D 2 D211 C 3181-2 D10DE IN3070 18K/T&R D 3 D214 C 5861-4 D10DE IN3070 18K/T <r< td=""> F 4 D215 C 3181-2 D10DE IN3070 18K/T F 3 D217 C 5861-4 D10DE IN3070 18K/T F 3 D217 C 5861-4 D10DE IN3070 18K/T F 3 <td></td><td>and a first state of the second state of the s</td><td></td><td></td></r<>		and a first state of the second state of the s		
D2033 C 3161-2 D10DE 1N4148 T/R E 2 D2264 C 3161-2 D10DE 1N4148 T/R D 3 D2265 C 3161-2 D10DE 1N4148 T/R D 3 D2267 C 3161-2 D10DE 1N4148 T/R D 3 D2268 C 3161-2 D10DE 1N4148 T/R D 2 D2269 C 3161-2 D10DE 1N4148 T/R D 2 D216 C 3161-2 D10DE 1N4148 T/R A 5 D212 C 3161-2 D10DE 1N4148 T/R A 5 D214 C S161-4 D10DE 1N4148 T/R F 4 D215 C 3161-2 D10DE 1N4148 T/R E 5 D216 C 3161-2 D10DE 1N4148 T/R </td <td></td> <td></td> <td></td> <td></td>				
D2284 C D10DE IN4148 T/R D 3 D285 C 3181-2 D10DE IN4148 T/R D 3 D286 C 3181-2 D10DE IN4148 T/R D 3 D287 C 3181-2 D10DE IN4148 T/R D 2 D288 C 3181-2 D10DE IN4148 T/R D 2 D218 C 5861-4 D10DE IN4148 T/R B 5 D213 C 5861-4 D10DE IN3270 18K/TAR D 3 D214 C 5861-4 D10DE IN3270 18K/TAR F 4 D215 C 3181-2 D10DE IN4148 T/R G 3 D216 C 3181-2 D10DE IN4148 T/R G 3 D2217 C 3181-2 D10DE IN4148 T/R E <td></td> <td></td> <td></td> <td></td>				
D285 C 3181-2 D10DE 1N4148 T/R D 3 D286 C 3181-2 D10DE IN4148 T/R D 3 D286 C 3181-2 D10DE IN4148 T/R D 2 D286 C 3181-2 D10DE IN4148 T/R D 2 D216 C 5861-4 D10DE IN4148 T/R A 5 D211 C 3181-2 D10DE IN4148 T/R A 5 D212 C 3181-2 D10DE IN4148 T/R A 5 D213 C 5861-4 D10DE IN3878 16K/T&R F 4 D216 C 3181-2 D10DE IN4148 T/R F 3 D217 C 3181-2 D10DE IN4148 T/R G 3 D216 C 3181-2 D10DE IN4148 T/R <td></td> <td></td> <td></td> <td></td>				
D286 C 3161-2 D10DE 1N4148 T/R D 3 D207 C 3161-2 D10DE 1N4148 T/R D 3 D208 C 3161-2 D10DE IN4148 T/R D 2 D208 C 3161-2 D10DE IN4148 T/R D 2 D211 C 3161-2 D10DE IN4148 T/R D 2 D211 C 3161-2 D10DE IN3070 16K/T&R D 3 D213 C 3161-2 D10DE IN3170 16K/T&R F 4 D214 C 5661-4 D10DE IN4148 T/R F 4 D215 C 3161-2 D10DE IN4148 T/R F 3 D216 C 3181-2 D10DE IN4148 T/R E 5 D2218 C 3181-2 D10DE IN4148 T/		the second s		
D227 C 3181-2 D10DE 1N4148 T/R D 3 D288 C 3181-2 D10DE IN4146 T/R D D 2 D210 C 5061-4 D10DE IN3270 16K/T&R D Z D211 C 3181-2 D10DE IN3270 16K/T&R D Z D211 C 3181-2 D10DE IN3148 T/R A 5 D212 C 3181-2 D10DE IN3148 T/R A 5 D213 C 5651-4 D10DE IN3170 16K/T&R F 4 D216 C 3181-2 D10DE IN4148 T/R G 3 D219 C 3181-2 D10DE IN4148 T/R E 5 D221 C 3181-2 D10DE IN4148 T/R E 5 D222 C 3181-2 D10DE IN41				
D288 C 3181-2 D10DE, 1N4148 T/R D 2 D299 C 3181-2 D10DE, IN376 I&X/T&R D D D211 C 3181-2 D10DE, IN376 I&X/T&R D D D211 C 3181-2 D10DE, IN3148 T/R D A D212 C 3181-2 D10DE, IN3178 I&X/T&R D 3 D214 C 5661-4 D10DE, IN3178 I&X/T&R F 4 D215 C 3181-2 D10DE, IN4148 T/R F 3 D217 C 5661-4 D10DE, IN4148 T/R G 3 D218 C 3181-2 D10DE, IN4148 T/R G 3 D220 C 3181-2 D10DE, IN4148 T/R E 5 D221 C 3181-2 D10DE, IN4148 <td></td> <td></td> <td></td> <td></td>				
D289 C 3181-2 D10DE 1N3878 J D218 C 5861-4 D10DE 1N3878 D 2 D211 C 3181-2 D10DE IN3148 T/R B 5 D212 C 3181-2 D10DE IN3148 T/R A 5 D213 C 5861-4 D10DE IN3878 18K/T&R P 4 D215 C 3181-2 D10DE IN3878 18K/T&R F 4 D216 C 3181-2 D10DE IN3148 T/R C 5 3 D219 C 3181-2 D10DE IN3148 T/R C 5 3 D2210 C 9180-2 D10DE IN4148 T/R E 5 D2222 C 3181-2 D10DE IN4148 T/R E 6 D2224 C 3181-2 D10DE IN4148 T/R E 6 D2224 C 3181-2 D10DE IN4148 T/R E 6 </td <td></td> <td></td> <td></td> <td></td>				
D218 C 5861-4 DIODE. 1N3070 18K/T&R D 2 D211 C 3181-2 DIODE. 1N4148 T/R B 5 D211 C 3181-2 DIODE. 1N4148 T/R B 5 D213 C 5061-4 DIODE. 1N3070 18K/T&R D 3 D214 C 5661-4 DIODE. 1N3070 18K/T&R F 4 D215 C 3181-2 DIODE. 1N3170 18K/T&R F 4 D216 C 3181-2 DIODE. 1N4148 T/R F 3 D217 C 5861-4 DIODE. 1N4148 T/R G 3 D218 C 3181-2 DIODE. 1N4148 T/R G 3 D220 C 3181-2 DIODE. 1N4148 T/R E 5 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 </td <td></td> <td></td> <td></td> <td></td>				
2211 C 3181-2 DIDDE. 1N4148 T/R A 2213 C S261-4 DIDDE. 1N3078 18K/TAR D J D214 C S261-4 DIDDE. 1N3078 18K/TAR F 4 D215 C 3181-2 DIDDE. 1N4148 T/R F 4 D216 C 3181-2 DIDDE. 1N4148 T/R F 3 D217 C S261-4 DIDDE. 1N4148 T/R F 3 D217 C S181-2 DIDDE. 1N4148 T/R G 3 D219 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 6 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148				
D212 C 3181-2 DIODE. 1N4148 T/R A 5 D213 C 5061-4 DIODE. 1N3070 10K/T&R D 3 D214 C 5061-4 DIODE. 1N3070 10K/T&R F 4 D215 C 3181-2 DIODE. 1N4148 T/R F 4 D216 C 3181-2 DIODE. 1N4148 T/R F 3 D217 C 5861-4 DIODE. 1N4148 T/R G 3 D219 C 3181-2 DIODE. 1N4148 T/R G 3 D219 C 3181-2 DIODE. 1N4148 T/R G 3 D220 C 9182-5 1N753A 5.2V.5W ZENER DIODE A 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 5 D224 C 3181-2 DIODE. 1N4148 T/R E 5 D229 C 2851-1 RECTIFIER. 1N4004 SILICON T/R E 5 D230 C 3181-2 <td></td> <td></td> <td></td> <td></td>				
2213 C 5061-4 DIODE. 1N3070 10K/T&R D 3 D214 C 5061-4 DIODE. 1N31070 10K/T&R F 4 D215 C 3181-2 DIODE. 1N4148 T/R F 3 D217 C 5061-4 DIODE. 1N4148 T/R F 3 D218 C 3181-2 DIODE. 1N4148 T/R F 3 D219 C 3181-2 DIODE. 1N4148 T/R G 3 D221 C 3181-2 DIODE. 1N4148 T/R G 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 6 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D226 C 3503-4 DIODE. 1N4148 T/R E 5 D227 C 3181-2 DIODE. 1N4148 T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R E 5 D231 C 3181-2 DIODE.				
D214 C 5061-4 DIODE 1N3070 10K/T&R F D215 C 3181-2 DIODE IN4148 T/R F 3 D216 C 3181-2 DIODE IN4148 T/R F 3 D217 C 5051-4 DIODE IN3070 10K/T&R F 3 D218 C 3181-2 DIODE INA148 T/R G 3 D219 C 3181-2 DIODE INA148 T/R E 5 D222 C 3181-2 DIODE INA148 T/R E 6 D223 C 3181-2 DIODE INA148 T/R E 6 D224 C 3181-2 DIODE INA148 T/R E 6 D224 C 3181-2 DIODE INA148 T/R E 6 D225 C 3181-2 DIODE INA148 T/R E 5 D228 C 3533-4 DIODE INA148 T/R E				
D215 C 3181-2 DIODE, 1N4148 T/R F D216 C 3181-2 DIODE, 1N4148 T/R F 3 D217 C 5861-4 DIODE, 1N4148 T/R G 3 D218 C 3181-2 DIODE, 1N4148 T/R G 3 D219 C 3181-2 DIODE, 1N4148 T/R G 3 D220 C 8182-2 DIODE, 1N4148 T/R E 5 D221 C 3181-2 DIODE, 1N4148 T/R E 5 D222 C 3181-2 DIODE, 1N4148 T/R E 6 D224 C 3181-2 DIODE, 1N4148 T/R E 6 D225 C 3181-2 DIODE, 1N4148 T/R E 6 D227 C 3181-2 DIODE, 1N4148 T/R E 5 D228 C 3533-4 DIODE, 1N4148 T/R E 5 D230 C 2851-1 RECTIFIER, 1N4064 SILICON T/R E		C 5061-4		F 4
D216 C 3181-2 DIODE, 1N4148 T/R F 3 D217 C 5661-4 DIODE, 1N4148 T/R F 3 D218 C 3181-2 DIODE, 1N4148 T/R G 3 D229 C 8181-2 DIODE, 1N4148 T/R G 3 D221 C 3181-2 DIODE, 1N4148 T/R E 5 D223 C 3181-2 DIODE, 1N4148 T/R E 6 D224 C 3181-2 DIODE, 1N4148 T/R E 6 D224 C 3181-2 DIODE, 1N4148 T/R E 6 D224 C 3181-2 DIODE, 1N4148 T/R E 6 D227 C 3181-2 DIODE, 1N4148 T/R E 5 D228 C 2851-1 RECTIFIER, 1N4084 SILICON T/R E 5 D230 C 3181-2 DIODE, 1N4148 T/R <				
D217 C 5061-4 DIODE. 1N3070 10K/T&R F 3 D218 C 3181-2 DIODE. 1N4148 T/R G 3 D220 C 8182-5 1N753A 6.2V.5W ZENER DIODE A 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 5 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D226 C 3533-4 DIODE. 1N4148 T/R E 5 D229 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R F 4 D231 C 3181-2 DIODE. 1N4148 T/R G 1 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE. 1N4148 T/R G 2 D235				F 3
D218 C 3181-2 DIODE. 1N4148 T/R G 3 D219 C 3181-2 DIODE. 1N4148 T/R G 3 D220 C 8182-5 1N753A 6.2V. SW ZENER DIODE A 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 5 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D226 C 3533-4 DIODE. 1N4148 T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R E 5 D231 C 3181-2 DIODE. 1N4148 T/R E 5 D232 C 2851-1 RECTIFIER. 1N4004 SILICON T/R E 5 D231 C 3181-2 DIODE. 1N4148 T/R G 2 D234 C 3181-2 DIODE. 1N4148				
D219 C 3181-2 DIODE. 1N4148 T/R G 3 D220 C 9182-5 1N753A 6.2V .5W ZENER DIODE A 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D227 C 3181-2 DIODE. 1N4148 T/R E 6 D227 C 3181-2 DIODE. 1N4148 T/R E 6 D227 C 3181-2 DIODE. 1N4148 T/R E 6 D228 C 353-4 DIODE. 1N4148 T/R E 5 D290 C 3181-2 DIODE. 1N4148 T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R F 4 D231 C 3181-2 DIODE. 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER. 1N4084 SILICON T/R E 5 D233 C 3181-2 DIODE. 1N4148 T/R G 1 D234 C 3181-2 DIODE. 1N4148 T/R G 2 D235 C 3181-2 DIODE. 1N4148 T/R G 2 D235 C 3181-2				G 3
D220 C 8182-5 1N753A 6.2V.SW ZENER DIODE A 3 D221 C 3181-2 DIODE. 1N4148 T/R E 5 D222 C 3181-2 DIODE. 1N4148 T/R E 6 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D227 C 3181-2 DIODE. 1N4148 T/R E 6 D228 C 3181-2 DIODE. 1N4148 T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R E 5 D231 C 3181-2 DIODE. 1N4148 T/R E 5 D233 C 3181-2 DIODE. 1N4148 T/R E 5 D234 C 3181-2 DIODE. 1N4148 T/R G 1 D234 C 3181-2 DIODE. 1N4148 T/R G 6 D235 C 3181-2 DIODE. 1N4148				G 3
D221 C 3181-2 DIODE. 1N4148 T/R E 5 D223 C 3181-2 DIODE. 1N4148 T/R E 6 D224 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D225 C 3181-2 DIODE. 1N4148 T/R E 6 D226 C 3181-2 DIODE. 1N4148 T/R E 6 D227 C 3181-2 DIODE. 1N4148 T/R E 6 D228 C 3533-4 DIODE. 1N4568 ISV ZENER T/R E 5 D230 C 3181-2 DIODE. 1N4148 T/R F 4 D231 C 3181-2 DIODE. 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER. 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE. 1N4148 T/R G 1 D234 C 3181-2 DIODE. 1N4148 T/R G 2 D233 C 3181-2 DIODE. 1N4148 T/R G 2 D234 C 3181-2 DIODE. 1N4148 T/R G 6 E100 C 9857-1 LED. RED T1 <td>D220</td> <td></td> <td>1N753A 6.2V .5W ZENER DIODE</td> <td>А З</td>	D220		1N753A 6.2V .5W ZENER DIODE	А З
D223 C 3181-2 DIODE, 1N4148 T/R E 6 D224 C 3181-2 DIODE, 1N4148 T/R E 6 D225 C 3181-2 DIODE, 1N4148 T/R E 6 D227 C 3181-2 DIODE, 1N4148 T/R E 6 D228 C 3533-4 DIODE, 1N4148 T/R E 5 D229 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D230 C 3181-2 DIODE, 1N4148 T/R F 4 D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 <td>D221</td> <td></td> <td>DIODE, 1N4148 T/R</td> <td>E 5</td>	D221		DIODE, 1N4148 T/R	E 5
D224 C 3181-2 DIDDE, 1N4148 T/R E 6 D225 C 3181-2 DIDDE, 1N4148 T/R E 6 D227 C 3181-2 DIDDE, 1N4148 T/R E 6 D228 C 3533-4 DIDDE, 1N4148 T/R E 6 D229 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D230 C 3181-2 DIDDE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIDDE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 2 D234 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 5.5" CABLE TIE C 6<	D222			E 5
D225 C 3181-2 DIDDE, 1N4148 T/R E 6 D227 C 3181-2 DIDDE, 1N4148 T/R E 6 D228 C 3533-4 DIODE, 1N4148 T/R E 5 D229 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D230 C 3181-2 DIODE, 1N4148 T/R F 4 D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R F 3 D234 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 2 D234 C 3181-2 DIODE, 1N4148 T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E201 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6	D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D227 C 3181-2 DIODE, 1N4148 T/R E 6 D228 C 3533-4 DIODE, 1N9568 16V ZENER T/R E 5 D229 C 2851-1 RECTIFIER, 1N4084 SILICON T/R E 5 D230 C 3181-2 DIODE, 1N4148 T/R F 4 D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 D234 C 3181-2 DIODE, 1N4148 T/R G 6 D235 C 3181-2 DIODE, 1N4148 T/R M 5 E100 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 HW7 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 HW7 C 9812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5"	D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D228 C 3533-4 DIODE, IN966B 16V ZENER T/R E 5 D229 C 2851-1 RECTIFIER, IN4004 SILICON T/R E 5 D230 C 3181-2 DIODE, IN4148 T/R F 4 D231 C 3181-2 DIODE, IN4148 T/R F 3 D232 C 2851-1 RECTIFIER, IN4004 SILICON T/R E 5 D233 C 3181-2 DIODE, IN4148 T/R G 1 D234 C 3181-2 DIODE, IN4148 T/R G 2 D235 C 3181-2 DIODE, IN4148 T/R G 6 D235 C 3181-2 DIODE, IN4148 T/R G 6 E100 C 9857-1 LED, RED T1.1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1.1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1.1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE A 6 L L L L L L L L L L L L L L L L	D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D229 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D230 C 3181-2 DIODE, 1N4148 T/R F 4 D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E101 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 Image: Comparison of the state	D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D230 C 3181-2 DIDDE, 1N4148 T/R F 4 D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E101 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 HW7 C 8812-7 5.5" CABLE TIE A 6 HW8 C 8812-7 5.5" CABLE TIE C 6 Image: Comparison of the second	D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D231 C 3181-2 DIODE, 1N4148 T/R F 3 D232 C 2851-1 RECTIFIER, 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 D235 C 3181-2 DIODE, 1N4148 T/R G 6 D235 C 3181-2 DIODE, NED TI .1 LEAD SPACE T/R M 5 E100 C 9857-1 LED, RED TI .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED TI .1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED TI .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 Image: Comparison of the second sec	D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D232 C 2851-1 RECTIFIER. 1N4004 SILICON T/R E 5 D233 C 3181-2 DIODE. 1N4148 T/R G 1 D234 C 3181-2 DIODE. 1N4148 T/R G 2 D235 C 3181-2 DIODE. 1N4148 T/R G 6 D100 C 9857-1 LED. RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED. RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D233 C 3181-2 DIODE, 1N4148 T/R G 1 D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E101 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State trip Image: State t	D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D234 C 3181-2 DIODE, 1N4148 T/R G 2 D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E101 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 1 LEAD SPACE T/R M 5 E201 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 HW8 C 8812-7 S.5" CABLE TIE C 6 D D D D D L D D D D L D D D D L D D D D L D D D D L D D D D L D D D D	D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D235 C 3181-2 DIODE, 1N4148 T/R G 6 E100 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E101 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8812-7 5.5" CABLE TIE A 6 HW8 C 8812-7 5.5" CABLE TIE C 6 Image: Comparison of the state of the	D233	C 3181-2	DIODE, 1N4148 T/R	G 1
2200 C 000 C 9057-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E101 C 9057-1 LED, RED T1 .1 LEAD SPACE T/R M 5 E200 C 9057-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9057-1 LED, RED T1 .1 LEAD SPACE T/R D 5 E201 C 9057-1 LED, RED T1 .1 LEAD SPACE T/R D 5 HW7 C 8012-7 5.5" CABLE TIE A 6 HW8 C 8012-7 5.5" CABLE TIE C 6 HW9 C 8012-7 FORMONINTERNATIONAL INCONCONCONCONCONCONCONCONCONCONCONCONCON	D234	C 3181-2	DIODE, 1N4148 T/R	G 2
E100 C 9857-1 LED, RED TI. 1 LEAD SPACE T/R M 5 E200 C 9857-1 LED, RED TI. 1 LEAD SPACE T/R D 5 E201 C 9857-1 LED, RED TI. 1 LEAD SPACE T/R D 5 HW7 C 8812-7 S.5" CABLE TIE A 6 HW8 C 8812-7 S.5" CABLE TIE C 6 Image: State of the s	D235	C 3181-2	DIODE, 1N4148 T/R	G 6
CTO District of the second secon	E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
CROWN INTERNATIONAL INC 118 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-5	E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
	E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
	E201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
CROWN INTERNATIONAL INC	HW7	C 8812-7	5.5" CABLE TIE	A 6
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6	нwв	C 8812-7	5.5" CABLE TIE	С 6
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				i
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
S DOAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-8				
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
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S DOAWINGS AND SPECIEICATIONS ARE THE 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
	EDRAWING	S AND SPECIFICATIONS		

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
HW9	C 8812-7	5.5" CABLE TIE	N 6
HW10	C 8812-7	5.5" CABLE TIE	P 6
J 1	C 7526-4	3POS .1 CENTER MTA HEADER	I G
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	86
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	Α 6
J901X	100375-1	HDR, , 14PIN,	Н 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	E 3
	C 3625-8	2N4125 30V PNP T/R	К 2
0100			K 2
0101	C 3625-8	2N4125 30V PNP T/R	
Q102	D 2961-7	SPS8010 60V NPN T/R	M 4
0103	C 3786-8	MPS4250A 40V PNP T/R	<u>M 2</u>
Q104	C 3578-9	MPSA93 200V PNP T/R	М З
0105	C 3810-6	MPSA42 300V NPN T/R	M 2
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2
Q107	C 7458-0	2N4123 30V NPN T/R	05
Q108	C 3786-8	MPS4250A 40V PNP T/R	05
Q109	C 3810-6	MPSA42 300V NPN T/R	M 4
Q110	C 7458-0	2N4123 30V NPN T/R	05
0111	C 3786-8	MPS4250A 40V PNP T/R	05
0112	D 2962-5	MPSA18 45V NPN T/R	К 4
0113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	J3
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
0116	C 3625-8	2N4125 30V PNP T/R	
	C 7458-0	2N4123 30V NPN T/R	0 1
0117			M 5
Q118	C 3625-8	2N4125 30V PNP T/R	
0119	<u>C 7458-0</u>	2N4123 30V NPN T/R	<u>M 5</u>
Q120	C 3625-8	2N4125 30V PNP T/R	M 4
Q121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
Q123	C 3625-8	2N4125 30V PNP T/R	M 5
Q124	C 3625-8	2N4125 30V PNP T/R	M 4
Q125	C 3625-8	2N4125 30V PNP T/R	M 4
Q126	C 7458-0	2N4123 30V NPN T/R	L 4
Q127	C 3810-6	MPSA42 300V NPN T/R	К 4
Q128	C 7458-0	2N4123 30V NPN T/R	M 4
0129	C 3625-8	2N4125 30V PNP T/R	M 4
0130	C 3578-9	MPSA93 200V PNP T/R	L 4
0131	C 7597-5	J202 N-CHANNEL JFET	J_6
0200	C 3625-8	2N4125 30V PNP T/R	F_2
			F 2
0201	C 3625-8	2N4125 30V PNP T/R	
0202	D 2961-7	SPS8010 60V NPN T/R	D 4
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HE BASIS FO	R THE MANUFACTURE DEVICES WITHOUT P	ERMISSION PROJ. MD360D0 1254	

REF DES		DESCRIPTION MPS4250A 40V PNP T/R	MAP LOC. D 2
0203	C 3786-8		
Q204	C 3578-9	MPSA93 200V PNP T/R	
Q205 Q206	C 3810-6 C 3578-9	MPSA42 300V NPN T/R MPSA93 200V PNP T/R	
	C 7458-0	2N4123 30V NPN T/R	A 5
0207		MPS4250A 40V PNP T/R	A 5
0208	C 3786-8 C 3810-6	MPS4230A 40V FNF 1/R	D 4
0209	C 7458-0	2N4123 30V NPN T/R	A 5
0210	C 3786-8	MPS4250A 40V PNP T/R	B 5
0211	D 2962-5	MPSA18 45V NPN T/R	F 4
0212 0213	D 2982-5 C 7458-0	2N4123 30V NPN T/R	G 4
0214	C 3625-8	2N4125 30V PNP T/R	G 3
Q214	C 3786-8	MPS4250A 40V PNP T/R	F 3
0216	C 3625-8	2N4125 30V PNP T/R	B 1
Q218	C 7458-0	2N4123 30V PNP T/R	B 1
Q217 Q218	C 3625-8	2N4125 30V PNP T/R	
Q219	C 7458-0	2N4123 30V PNF 1/R	C 5
0220	C 3625-8	2N4125 30V NPN T/R	
0220	C 7458-0	2N4123 30V PNP T/R	
0222	C 3625-8	2N4125 30V PNP T/R	
0223	C 3625-8	2N4125 30V PNP T/R	D 5
0224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
Q228	C 7458-0	2N4123 30V NPN T/R	D 4
0229	C 3625-8	2N4125 30V PNP T/R	D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
Q231	C 7597-5	J202 N-CHANNEL JFET	G 6
R1	A10265-46421		E 2
R2	A10265-53621		F 2
R4	A10265-10031		G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	G 5
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031	100. KOHM .25W 1 MF T/R	F 5
RB	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MOHM . 25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R11	A10266-9111	910. OHM . 25W 5 CF T/R	I 2
R12	A10124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	НБ
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 5
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 6
R16	A10266-5641	560. KOHM .25W 5% CF T/R	GG
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	ЕБ
R18	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
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R22 A10266-1051 1.0 MOHM. 25W 5 CF T/R H 5 R23 A10286-2051 2.0 MOHM. 25W 5% CF T/R I 6 R24 A10265-10011 1.0 KOHM. 25W 1% F T/R I 6 R161 A10265-10021 10 KOHM. 25W 1% F/R J 3 R101 A10265-10021 10 KOHM. 25W 1% F/R J 3 R102 A10265-10021 10 KOHM. 25W 1% MF T/R J 3 R102 A10265-10021 10 KOHM. 25W 1 MF T/R J 3 R102 A10265-10021 10 KOHM. 25W 1% MF T/R I 3 R108 A10265-49911 4.99KOHM. 25W 1% MF T/R I 1 1 R109 A10265-24921 24.9 KOHM. 25W 1% MF T/R I 1 1 R109 A10265-24921 24.9 KOHM. 25W 1% MF T/R I 1 1 R110 A10265-24921 24.	REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R21 A10266-1041 100. KOPM. 25W 5X CF25 T/R H R22 A10266-1051 1.0 MOHM. 25W 5X CF T/R H R23 A10266-2051 2.0 MOHM. 25W 5X CF T/R H R24 A10266-1031 10. KOHM. 25W 5X CF T/R I R36 A10265-10021 10. KOHM. 25W 1 MF T/R I R100 A10265-10021 10. KOHM. 25W 1 MF T/R J J R101 A10265-10021 10. KOHM. 25W 1 MF T/R J J R103 C 9079-2 200. CHM. 25W 1 MF T/R J J R104 A10265-10021 10. KOHM. 25W 1 MF T/R J J R104 A10265-10021 10. KOHM. 25W 1 MF T/R J J R105 A10265-10021 4.98XOHM. 25W 1 MF T/R I J R R105 A10265-10021 4.98XOHM. 25W 1 MF T/R I J L R R J L R R105 A10265-10021 1			100. KOHM .25W 5% CF25 T/R	E 6
R33 A10265-2051 2.0 MOHM. 25W 5 CF T/R H 5 R34 A10255-10021 10. KDHM. 25W 1 MF T/R I 5 R100 A10255-10021 10. KDHM. 25W 1 MF T/R J 3 R101 A10255-10021 10. KDHM. 25W 1 MF T/R J 3 R102 A10255-10021 10. KDHM. 25W 1 MF T/R J 3 R103 C 979-2 200.0HM. 25W 1 MF T/R J 3 R104 A10255-10021 10. KDHM. 25W 1 MF T/R J 2 R105 A10255-10021 11. KDHM. 25W 1 MF T/R I 1 R106 A10255-10021 11.8 SDHM. 25W 1 MF T/R I 1 R107 125231-1 POT. SDHM. 25W 1 MF T/R I 1 R116 A10255-10021 10.8 SDHM. 25W 1 MF T/R I 1 R110 A10255-1002	R21	A10266-1041	100. KOHM .25W 5% CF25 T/R	E 6
R24 A19265-1031 10. KOHM25W 5% CF T/R I 6 R25 A19265-10811 1.0. KOHM25W 1 MF T/R J 3 R101 A10265-10821 10. KOHM25W 1 MF T/R J 3 R102 A10265-10821 10. KOHM25W 1 MF T/R J 3 R103 C 9079-2 200. OHM. TOP ADJ. CERMET TRIMMER I 2 R104 A10265-49311 499KOHM25W 1 MF T/R I 3 R105 A10265-49311 499KOHM25W 1 MF T/R I 3 R106 A10265-49311 POT. SCOHM. 12% VI. MF T/R I 1 1 R107 12531-1 POT. SCOHM. 12% VI. MF T/R I 1 1 1 R108 A10265-24921 2.4.9 KOHM25W 1% MF T/R I 1 1 R111 A10265-1031 16.0 NCHM25W 1% MF T/R J 2 1 1 1 1 1 1 <	R22	A10266-1051	1.0 MOHM .25W 5 CF T/R	Н 5
A19255-19011 1.0 KOHM 25% 1 MF T/R I 6 A19265-10021 10 KOHM 25% 1 MF T/R J 3 R101 A19265-10021 10 KOHM 25% 1 MF T/R J 3 R102 A19265-10021 10 KOHM 25% 1 MF T/R J 3 R103 C 9079-2 200 OHM DERMET TRIMMER I 2 R105 A19265-10021 10 KOHM Z5% 1 MF T/R I 3 R105 A19265-10021 10 KOHM Z5% 1 MF T/R I 3 R106 A19265-10021 11 SOHM Z5% 1 MF T/R I 1 R108 A19265-24921 24.9 SOHM Z5% 12 MF MF I 1 1 R110 A19265-22031 10.8 SOHM Z5% 12 MF T/R I 1 1 1 1 1 1 1 1 1	R23	A10266-2051	2.0 MDHM .25W 5 CF T/R	Н 5
A10265-10021 10. KOHM25W 1 MF T/R J 3 R101 A10265-10021 10. KOHM25W 1 MF T/R J 3 R102 A10265-10021 10. KOHM25W 1 MF T/R J 3 R103 C 9079-2 200.0HM TOP ADJ CEMET TIMMER I 2 R104 A10265-10021 10. KOHM.25W 1 MF T/R J 3 R105 A10265-49911 4.99KOHM.25W 1 MF T/R I 3 R106 A10265-49911 4.99KOHM.25W 12.MF T/R I 1 R108 A10265-49911 2.4.9 KOHM.25W 12.MF T/R I 1 R109 A10265-49911 2.4.9 KOHM.25W 12.MF T/R I 1 R110 A10265-2091 2.4.9 KOHM.25W 12.MF T/R K 2 R111 A10265-1031 150. KOHM.25W 12.MF T/R K 2 R114 A10265-1031 150. KOHM.25W 12.MF T/R K 2 R1	R24	A10266-1031	10. KOHM .25W 5% CF T/R	I 6
R181 A18265-18621 18. KDHM .25W 1 MF T/R J 3 R102 A18265-18621 18. KDHM .25W 1 MF T/R J 3 R104 A18265-18621 18. KDHM TOP ADJ CERMET TRIMMER J 2 R104 A18265-18621 18. KDHM TOP ADJ CERMET TRIMMER J 2 R105 A18265-18621 18. KDHM .25W 1 MF T/R J 3 R106 A18265-1921 14. 99KOHM .25W 1 MF T/R I 3 R107 125931-1 POT. SKOHM .25W 1 MF T/R I 1 R108 A18255-1921 14. 99KOHM .25W 12 MF T/R I 1 R109 A18255-24921 24.9 KDHM .25W 12 MF T/R I 1 R111 A18255-24921 24.9 KDHM .25W 12 MF T/R K 2 R112 A18255-24921 24.9 KDHM .25W 12 MF T/R K 2 R114 A18255-18031 198. KDHM .25W 12 MF T/R K 2 R114 A18255-18031 198. KDHM .25W 12 MF T/R J 4 R114 A18255-18031 198. KDHM .25W 12 MF T/R I 3 R115 A18255-18031 198. KDHM .25W 12 MF T/R I 3 R116 A18255-18031 198. KDHM .25W 12 MF T/R I 3	R25	A10265-10011	1.0 KOHM .25W 1 MF T/R	I 6
A10225 - 10021 10. KOHM .25W 1 MF T/R J 3 A1024 A10255 - 10221 10. KOHM .25W 1 MF T/R J 2 A10255 - 10221 10. KOHM .25W 1 MF T/R J 2 A10255 - 419211 4.99KOHM .25W 1 MF T/R I 3 A10255 - 41921 1.99KOHM .25W 1 MF T/R I 3 A10255 - 41921 1.99KOHM .25W 1 MF T/R I 1 A10255 - 11921 1.19KOHM .25W 12 MF T/R I 1 1 A10255 - 11921 24.9 KOHM .25W 12 MF T/R I 1 1 A10255 - 10221 24.9 KOHM .25W 12 MF T/R K 2 1 1 1 A112 A10255 - 10321 120. KOHM .25W 12 MF T/R K 2 1 <	R100	A10265-10021	10. KOHM.25W1 MF T/R	JЗ
R1183 C 9879-2 200.0HM TOP ADJ CERNET TRIMMER I 2 R104 A18285-18821 182.KOHM .25W 1 MF T/R J 2 R105 A18265-49911 4.99KOHM .25W 1 MF T/R I 3 R106 A18265-49911 4.99KOHM .25W 1 MF T/R I 3 R107 I25931-1 POT, SKOHM .25W 1 MF T/R I 1 R108 A18265-49911 6.98 KOHM .25W 1 MF T/R I 1 R110 A18265-24921 24.9 KOHM .25W 1 X MF T/R I 1 R111 A18265-24921 24.9 KOHM .25W 1 X MF T/R I 1 R111 A18265-24921 24.9 KOHM .25W 1 X MF T/R K 2 R113 A18265-18031 180. KOHM .25W 1 X MF T/R K 2 R114 A18265-18031 180. KOHM .25W 1 MF T/R K 2 R115 A18265-18031 180. KOHM .25W 1 MF T/R I 4 R116 A18265-18031 180. KOHM .25W 1 MF T/R I 3 R116 A18265-18031 180. KOHM .25W 1 MF T/R I 3 R116 A18265-18031 180. KOHM .25W 1 MF T/R K 2 R116 A18265-18031 180. KOHM .25W 5 CF T/R I 3 R120	R101	A10265-10021	10. KOHM .25W 1 MF T/R	ЪЗ
R184 A10265-10021 10. KOHM.25W 1 MF T/R J 2 R105 A10265-49911 4.99KOHM.25W 1 MF T/R I 3 R106 A10265-49911 4.99KOHM.25W 1 MF T/R I 3 R107 125931-1 POT.5KOHM 10X LIN 21 DNT J 2 R108 A10265-24921 24.9 KOHM 25W 1X MF T/R I 1 R109 A10265-24921 24.9 KOHM 25W 1X MF T/R I 1 R110 A10265-59811 6.98 KOHM 25W 1X MF T/R K 2 R111 A10265-19031 100. KOHM 25W 1X MF T/R K 2 R113 A10265-19031 100. KOHM 25W 1X MF T/R K 2 R114 A10265-19031 100. KOHM 25W 1X MF T/R I 4 R117 A10265-19031 100. KOHM 25W 1X MF T/R I 4 R115 A10265-19031 100. KOHM 25W 1 MF T/R I 3 R116 A10265-19031 100. KOHM 25W 1 MF T/R I 4	R102	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
R185 A10285-49911 4.99KOHM.25W 1 MF T/R 1.3 R105 A10265-49911 4.99KOHM.25W 1 MF T/R 1.3 R106 A10265-49911 PDT.SKOHM 102 KIN 21 IN 1 DNT J.2 R108 A10265-11821 D11.8 KOHM 0.25W 1% MF T/R I.1 R109 A10265-24921 24.9 KOHM.25W 1% MF T/R I.1 R111 A10265-24921 24.9 KOHM.25W 1% MF T/R I.1 R111 A10265-24921 24.9 KOHM.25W 1% MF T/R K.2 R111 A10265-24921 24.9 KOHM.25W 1% MF T/R K.2 R111 A10265-14931 100 KOHM.25W 1% MF T/R K.2 R1113 A10265-10031 100 KOHM.25W 1% MF T/R I.3 R116 A10265-10631 100.5KOHM.25W 1% MF T/R I.3 R117 A10265-10631 100.5KOHM.25W 1% MF T/R I.3 R118 A10265-10831 100.5KOHM.25W 1% MF T/R K.2 R122 A10265-10831 100.5KOH	R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
R108 A10265-49911 4.99KOHM.25W 1 MF T/R 1.3 R107 125931-1 POT.5KOHM.10% LIN 21 DNT J.2 R108 A10265-11821 11.8 KOHM.25W 1% MF T/R I.1 R109 A10265-24921 24.9 KOHM.25W 1% MF T/R I.1 R110 A10265-24921 24.9 KOHM.25W 1% MF T/R I.1 R111 A10265-24921 24.9 KOHM.25W 1% MF T/R I.1 R112 A10265-24921 24.9 KOHM.25W 1% MF T/R K.2 R111 A10265-2001 22.0 OHM.25W 1% MF T/R K.2 R113 A10265-10031 100. KOHM.25W 1% MF T/R K.2 R114 A10265-10031 100. KOHM.25W 1% MF T/R I.4 R115 A10265-10031 200. KOHM.25W 1% MF T/R I.4 R116 A10265-10031 200. KOHM.25W 1% MF T/R I.4 R117 A10265-10031 100. KOHM.25W 1% MF T/R K.2 R114 A10265-1011 510. OHM.25W 5% CF T/R K.2 R120 A10265-1021 1.3 KOHM.25W 1% MF T/R K.2 R121 C.5215-6 22. MOHM.25W 5% CF T/R K.2 R121	R104	A10265-10021	10. KOHM .25W 1 MF T/R	J 2
R187 125931-1 POT. 5K0HM 10% LIN 21 DNT J 2 R108 A10265-11821 II.8 K0HM 0.25W 1X MF T/R II R109 A10265-24921 24.9 K0HM.25W 1X MF T/R II R111 A10265-24921 24.9 K0HM.25W 1X MF T/R II R111 A10265-24921 24.9 K0HM.25W 1X MF T/R K R111 A10265-24921 24.9 K0HM.25W 1X MF T/R K R111 A10265-24931 4.99K0HM.25W 1X MF T/R K R113 A10265-10931 100. K0HM.25W 1 MF T/R K R116 A10265-10931 100. K0HM.25W 1 MF T/R I R116 A10265-10931 100. K0HM.25W 1 MF T/R I R117 A10265-10931 100. K0HM.25W 1 MF T/R I R118 A10265-10931 100. K0HM.25W 1 MF T/R K R120 A10265-10931 100. K0HM.25W 1 MF T/R K R121 C 5215-6 22. M0HM.25W 5 CF T/R K R122 A10265-131 51.0 CHM.25W 5 CF T/R K R122 A10265-131 1.2 K0HM.25W 5 CF T/R L R124 A10265-2721 2.7 K0HM.25W 5 C	R105	A10265-49911	4.99KOHM .25W 1 MF T/R	
R108 A10255-11821 11.8 KOHM 0.25W 1% MF T/R I R109 A10255-24921 24.9 KOHM .25W 1% MF T/R I R111 A10255-24921 24.9 KOHM .25W 1% MF T/R I R111 A10255-24921 24.9 KOHM .25W 1% MF T/R K R111 A10255-24921 22.0 OHM .25W 1% MF T/R K Z R112 A10255-10921 102.0 OHM .25W 1 MF T/R K Z R113 A10255-10031 100. KOHM .25W 1 MF T/R K Z R115 A10255-10031 100. KOHM .25W 1 MF T/R J 4 R116 A10255-10721 10.7KOHM .25W 1 MF T/R J 4 R117 A10255-10721 10.7KOHM .25W 1 MF T/R I 3 R118 A10255-10721 10.7KOHM .25W 1 MF T/R I 3 R119 A10255-10721 10.7KOHM .25W 1 MF T/R K 2 R121 C 5215-6 22. MOHM .25W 5 CF T/R K 2 R122 A10256-1321 1.3 KOHM .25W 5 CF T/R L 2 R122 A10256-6431 12. KOHM .25W 5% CF T/R L 3	R106	A10265-49911	4.99KOHM .25W 1 MF T/R	
A10255-24921 24.9 KDHM.25W 1% MF T/R 1 R110 A10255-24921 24.9 KDHM.25W 1% MF T/R 1 R111 A10255-24921 24.9 KDHM.25W 1% MF T/R 1 R112 A10255-2921 22.0 DHM.25W 1% MF T/R J R113 A10255-49311 4.99KDHM.25W 1 MF T/R K R114 A10255-10031 100. KOHM.25W 1 MF T/R K R115 A10255-10031 100. KOHM.25W 1 MF T/R J R116 A10255-10031 100. KOHM.25W 1 MF T/R I R117 A10255-10031 100. KOHM.25W 1 MF T/R I R118 A10255-10031 100. KOHM.25W 1 MF T/R I R119 A10255-10031 100. KOHM.25W 1 MF T/R I R120 A10256-10031 100. KOHM.25W 5 CF T/R I R121 C 5215-6 22. MOHM.25W 5 CF T/R K R122 A10256-1231 12. KOHM.25W 5% CF T/R K R123 A10256-1231 12. KOHM.25W 5% CF T/R L R124 A10256-1231 12. KOHM.25W 5% CF T/R L R125 A10256-1231 12. KOHM.25W 5% CF T/R L <td>R107</td> <td></td> <td></td> <td>J Z</td>	R107			J Z
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R130 A10265-10031 100. KDHM.25W 1 MF T/R L 3 R131 A10265-10031 100. KDHM.25W 1 MF T/R L 2 R132 A10266-4701 47.0 DHM.25W 5 CF T/R L 4 R133 A10266-4701 47.0 DHM.25W 5 CF T/R L 2 R134 A10266-4701 47.0 DHM.25W 5 CF T/R L 2 R134 A10266-4701 47.0 DHM.25W 5% CF T/R M 3 R135 A10266-2201 22.0 DHM.25W 5% CF T/R M 3 R136 A10266-8211 B20. DHM.25W 5% CF T/R M 2 R137 A10266-8211 B20. DHM.25W 5% CF T/R M 2 R138 A10266-5201 22.0 DHM.25W 5% CF T/R M 2 R139 A10266-5601 56.0 DHM.25W 5% CF T/R M 2 R140 A10266-5601 56.0 DHM.25W 5% CF T/R M 2 R140 A10266-4721 4.7 KDHM.25W 5% CF T/R M 2 R140 A10266-4721 4.7 KDHM.25W 5% CF T/R P 5 I218 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	R128	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R131 A10265-10031 100. KOHM25W 1 MF T/R L 2 R132 A10266-4701 47.0 OHM25W 5 CF T/R L 2 R133 A10266-4701 47.0 OHM25W 5 CF T/R L 2 R134 A10266-4701 470.0 OHM25W 5% CF T/R M 3 R135 A10266-2201 22.0 OHM25W 5% CF T/R M 3 R135 A10266-2201 22.0 OHM25W 5% CF T/R M 3 R136 A10266-8211 B20. OHM25W 5% CF T/R M 2 R137 A10266-8211 B20. OHM25W 5% CF T/R M 2 R138 A10266-2201 22.0 OHM25W 5% CF T/R M 2 R138 A10266-5601 56.0 OHM25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM25W 5% CF T/R P 5 CCROWN INTERNATIONAL INC.	R129	A10266-6831	68. KOHM .25W 5% CF T/R	LЗ
R132 A10256-4701 47.0 OHM .25W 5 CF T/R L 4 R133 A10256-4701 47.0 OHM .25W 5 CF T/R L 2 R134 A10256-4701 470. OHM .25W 5% CF T/R M 3 R135 A10256-201 22.0 OHM .25W 5% CF T/R M 3 R135 A10256-201 820. OHM .25W 5% CF T/R M 3 R136 A10256-8211 820. OHM .25W 5% CF T/R M 3 R137 A10256-8211 820. OHM .25W 5% CF T/R M 2 R138 A10256-501 56.0 OHM .25W 5% CF T/R M 2 R139 A10256-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10256-4721 4.7 KOHM .25W 5% CF T/R M 2 R140 A10256-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC	R130	A10265-10031	100. KOHM .25W 1 MF T/R	L 3
R133 A10256-4701 47.0 OHM .25W 5 CF T/R L 2 R134 A10256-4711 470 OHM .25W 5% CF T/R M 3 R135 A10266-2201 22.0 OHM .25W 5% CF T/R M 3 R135 A10266-2201 22.0 OHM .25W 5% CF T/R M 3 R135 A10266-8211 B20 OHM .25W 5% CF T/R M 3 R137 A10266-8211 B20 OHM .25W 5% CF T/R M 2 R138 A10266-2201 22.0 OHM .25W 5% CF T/R M 2 R139 A10266-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC INC 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 46517 PHONE <	R131	A10265-10031	100. KOHM .25W 1 MF T/R	L 2
R134 A10266-4711 470. DHM .25W 5% CF T/R M 3 R135 A10266-2201 22.0 DHM .25W 5% CF T/R M 3 R136 A10266-8211 820. DHM .25W 5% CF T/R M 2 R137 A10266-8211 820. DHM .25W 5% CF T/R M 2 R138 A10266-2201 22.0 DHM .25W 5% CF T/R M 2 R139 A10266-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KDHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KDHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KDHM .25W 5% CF T/R M 5 CROWN INTERNATIONAL INC	R132	A10266-4701	47.0 OHM .25W 5 CF T/R	L 4
R135 A10266-2201 22.0 OHM .25W 5 CF T/R M 3 R136 A10266-8211 B20 OHM .25W 5% CF T/R M 2 R137 A10266-8211 B20 OHM .25W 5% CF T/R M 2 R138 A10266-8211 B20 OHM .25W 5% CF T/R M 2 R138 A10266-2201 22.0 OHM .25W 5% CF T/R M 2 R139 A10266-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC INTERNATIONAL INC	R133	A10266-4701	47.0 OHM .25W 5 CF T/R	L 2
R135 A10256-8211 820. DHM . 25W 5% CF T/R M 3 R137 A10266-8211 820. DHM . 25W 5% CF T/R M 2 R138 A10266-2201 22.0 DHM . 25W 5% CF T/R M 2 R139 A10266-5601 56.0 OHM . 25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R P 5 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R P 5	R134	A10266-4711		МЗ
R137 A10266-8211 820. DHM . 25W 5% CF T/R M 2 R138 A10266-2201 22.0 DHM . 25W 5 CF T/R M 2 R139 A10266-5601 56.0 OHM . 25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R P 5 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R P 5 R140 A10266-4721 4.7 KOHM . 25W 5% CF T/R P 5	R135	A10266-2201	22.0 OHM .25W 5 CF T/R	МЭ
R138 A10266-2201 22.0 DHM 25W 5 CF T/R M 2 R139 A10266-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC INTERNATIONAL INC 1718 WEST MISHAWAKA RDAD ELKHART, INDIANA 45517 PHONE (219) 294-E	R136	A10266-8211		
R139 A10266-5601 56.0 OHM .25W 5% CF T/R M 2 R140 A10266-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC INTERNATIONAL INC 1218 WEST MISHAWAKA ROAD ELKHART, INDIANA 45517 PHONE (219) 294-F	R137	A10266-8211		M 2
R140 A10266-4721 4.7 KOHM .25W 5% CF T/R P 5 CROWN INTERNATIONAL INC 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 45517 PHONE (219) 294-5	R138			M 2
E DRAWINGS AND SPECIE ICATIONS ARE THE CROWN INTERNATIONAL INC	R139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
E DRAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-6	R140	A10266-4721	4.7 KOHM .25W 5% CF T/R	P 5
E DRAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
E DRAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-6				ļ
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E DRAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-6				
E DRAWINGS AND SPECIFICATIONS ARE THE				
	E DRAWINGS	AND SPECIFICATIONS AR		PHONE (219) 294-8 HEET 14 OF 22

REE DES	C. P. N.	PARTS LIST	MAP LOC.
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
7142	A10265-66501	665. OHM .25W 1 MF T/R	05
7143	A10265-27401	274. OHM . 25W 1% MF T/R	P 5
7144	A10265-27401	274. DHM . 25W 1% MF T/R	05
7145	A10265-66501	665. OHM .25W 1 MF T/R	05
3146	A10265-66501	665 OHM 0.25W 1% MF T/R	05
7147	A10265-66501	665 OHM 0.25W 1% MF T/R	05
3148	A10266-1041	100. KOHM .25W 5% CF25 T/R	P 5
3149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
150	A10265-35711	3.57KOHM .25W 1 MF T/R	05
7151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
7152	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	K 4
7153	A10266-1031	10. KOHM .25W 5% CF T/R	K 4
7154	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
7155	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	КЗ
7156	A10266-1031	10. KOHM .25W 5% CF T/R	КЗ
7157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
7158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
7159	A10265-10011	1.0 KOHM .25W 1 MF T/R	КЗ
7160	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
7161	A10266-4721	4.7 KOHM .25W 5% CF T/R	JЗ
R162	A10266-4721	4.7 KOHM .25W 5% CF T/R	ЪЗ
7163	A10265-10021	10. KOHM.25W 1 MF T/R	JЗ
R164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
R165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
7166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
7167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
7169	A10265-27431		JZ
7170	A10265-95311	9.53KOHM .25W 1% MF T/R	J 2
7171	A10266-5621	5.6 KOHM .25W 5% CF T/R	P 3
7172	A10266-1541	150. KOHM .25W 5% CF T/R	03
7173		17.8KOHM .25W 1% MF T/R	03
7174	A10265-24921		03
7175	A10265-49911	4.99KOHM .25W 1 MF T/R	03
7176	A10265-68111		03
R177	A10265-33221	33.2KDHM .25W 1% MF T/R	0 4
7178	A10265-10021	10. KOHM .25W 1 MF T/R	0 4
R179	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
7180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
<u>7181</u>	A10265-10001	100. OHM .25W 1 MF T/R	0 2
182	A10265-51121	51.1 KOHM .25W 1% MF T/R	0 2
183	A10265-68111	6.81KOHM .25W 1% MF T/R	0 2
7184	A10265-10001	100. OHM .25W 1 MF T/R	0 2
7185	A10266-2741	270. KOHM . 25W 5% CF25 T/R	02
7186	C 5062-2	100KOHM LINEAR TRIMPOT	0 2
7187	A10265-14321	14.3 KOHM 0.25W 1% MF T/R	04
		E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
RTY OF CRO	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR	AND DRAWN KLW 11-07-97 DWG. NO. S	HEET 15 OF 22

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R188	A10265-32421		04
R189	A10265-19121		04
R190	A10265-33221	33.2KOHM .25W 1% MF T/R	РЗ
R191	A10265-10021	10. KOHM.25W1 MF T/R	Р 3
R192	A10265-20011	2.0 KOHM .25W 1% MF T/R	P 3
R193		2.0 KOHM .25W 1% MF T/R	P 4
R194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
R195	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
R197	A10265-68111	6.81KOHM .25W 1% MF T/R	P 2
R198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
R200	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	Н 1
R204	A10265-10021	10. KOHM .25W 1 MF T/R	G 2
R205	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R206	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R207	125931-1	POT, 5KOHM 10% LIN 21 DNT	F 2
R208	A10265-11821	11.8K OHM 0.25W 1% MF T/R	H 1
R209	A10265-24921	24.9 KOHM .25W 1% MF T/R	H 1
R210	A10265-69811	6.98 KOHM .25W 1% MF T/R	H 1
R211	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 2
R212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
R213	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R214	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R215	A10265-15031	150 KOHM .25 1% MF T/R	G 4
R216	A10265-10721	10.7KOHM .25W 1% MF T/R	H 4
R217	A10265-20031	200.KOHM .25W 1 MF T/R	НЗ
R218	A10265-10521	10.5KDHM .25W 1% MF T/R	НЗ
R219	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
R221	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
R222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
R223	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R224	A10266-1231	12.KOHM .25W 5% CF T/R	EЗ
R225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
R226	A10266-2721	2.7 KOHM .25W 5 CF T/R	<u>E 3</u>
R227	A10266-2721	2.7 KOHM .25W 5 CF T/R	<u>E 2</u>
R228	A10266-6831	68. KOHM .25W 5% CF T/R	E 3
R229	A10266-6831	68. KOHM .25W 5% CF T/R	<u>E 3</u>
R230	A10265-10031	100. KOHM .25W 1 MF T/R	E 3
R231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
R232	A10266-4701	47.0 OHM .25W 5 CF T/R	<u> </u>
R233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
R234	A10266-4711	470. OHM .25W 5% CF T/R	D 3
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		CROWN INTERNATION	PHONE (219) 294-
	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM		SHEET 16 OF 22

REF DES	C.P.N	PARTS LIST	MAP LOC.
R235	A10266-2201	22.0 OHM .25W 5 CF T/R	D 3
R236	A10266-8211	820. DHM . 25W 5% CF T/R	D 3
R237	A10266-8211	820. OHM . 25W 5% CF T/R	D 2
R238	A10266-2201	22.0 DHM .25W 5 CF T/R	D 2
R239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
R240	A10266-4721	4.7 KDHM .25W 5% CF T/R	A 5
R241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
R242	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R243	A10265-27401	274. OHM .25W 1% MF T/R	A 5
R244	A10265-27401	274. DHM .25W 1% MF T/R	85
R245	A10265-66501	665. OHM .25W 1 MF T/R	85
R246	A10265-66501	665 OHM 0.25W 1% MF T/R	85
R247	A10265-66501	665 OHM 0.25W 1% MF T/R	В 5
R248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
R249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
R250	A10265-35711	3.57KDHM .25W 1 MF T/R	85
R251	A10266-1041	100. KOHM .25W 5% CF25 T/R	85
R252	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	F 4
R253	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R254	A10266-2721	2.7 KOHM .25W 5 CF T/R	EЗ
R255	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	FЗ
R256	A10266-1031	10. KOHM .25W 5% CF T/R	E 3
R257	A10266-2721	2.7 KOHM .25W 5 CF T/R	Е З
R258	A10266-3021	3.0 KOHM .25W 5 CF T/R	G 4
R259	A10265-10011	1.0 KOHM .25W 1 MF T/R	F 3
R260	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R261	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R263	A10265-10021	10. KOHM 25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	FЭ
R265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
R266	A10265-95311	9.53KOHM .25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
R270	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
R271	A10266-5621	5.6 KOHM .25W 5% CF T/R	83
R272	A10266-1541	150. KOHM .25W 5% CF T/R	А Э
R273	A10265-17821	17.8KOHM .25W 1% MF T/R	А З
R274	A10265-24921	24.9 KOHM .25W 1% MF T/R	А З
R275	A10265-49911	4.99KOHM .25W 1 MF T/R	АЗ
R276	A10265-68111	6.81KOHM .25W 1% MF T/R	А З
R277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
R278	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
R279	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
R280	A10265-20011	2.0 KOHM .25W 1% MF T/R	А З
R2B1	A10265-10001	100. OHM .25W 1 MF T/R	A 2
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		CROWN INTERNATION	
		1718 WEET MICHAWAKA POAD ELVHART INDIANA 46617	
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICE WITHOUT BERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 DRAWN KLW 11-07-97 DWG. NO.	PHDNE (219) 294-0 SHEET 17 OF 22

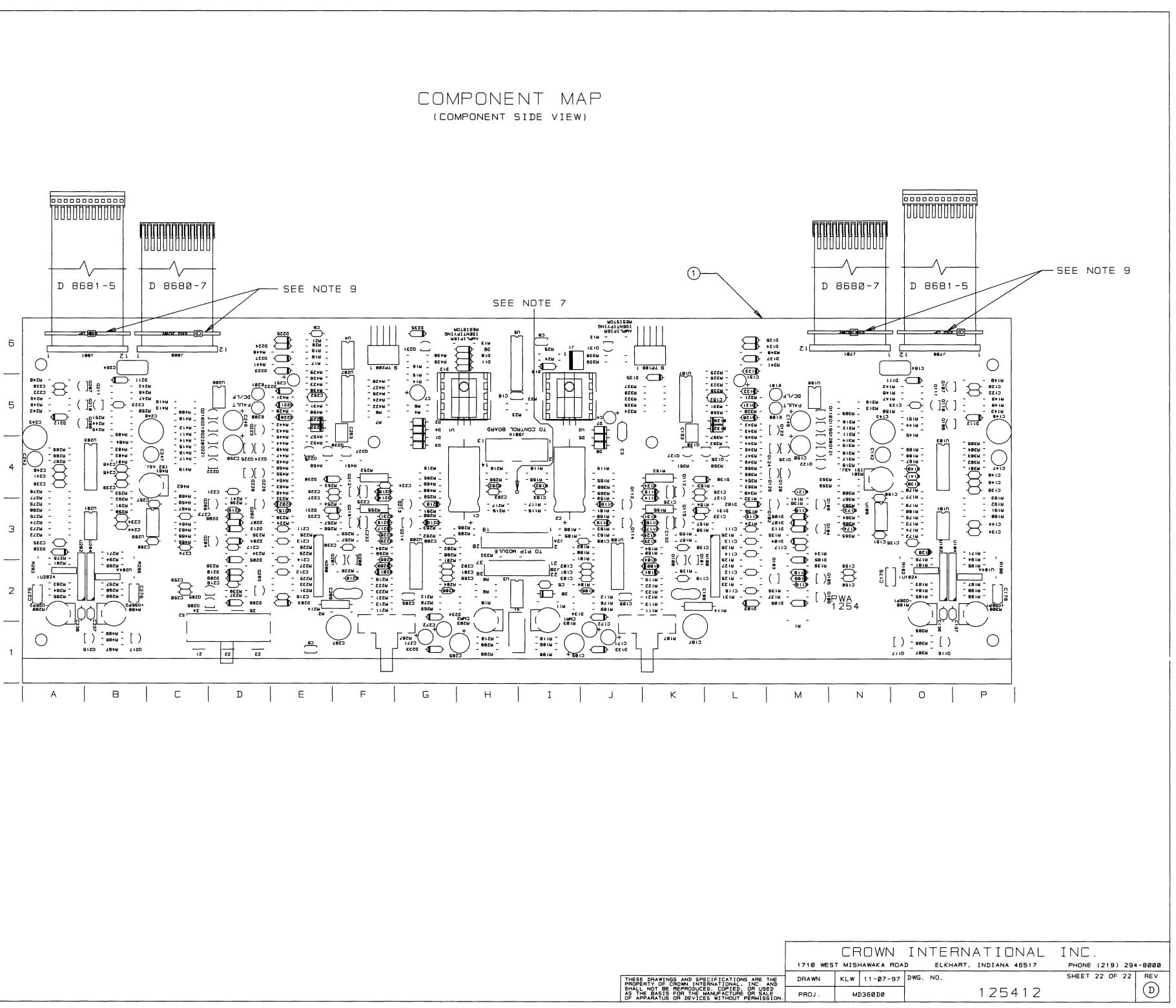
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
7282		51.1 KOHM .25W 1% MF T/R	A 2
7283		6.81K0HM .25W 1% MF T/R	A Z
7284	A10265-10001		A 2
7285	A10266-2741	270. KOHM . 25W 5% CF25 T/R	A Z
7286		100KOHM LINEAR TRIMPOT	A 2
7287	A10265-14321	14.3K OHM 0.25W 1% MF T/R	A 4
7288	A10265-32421	32.4K OHM 0.25W 1% MF T/R	A 4
7289	A10265-19121	19.1K OHM 0.25W 1% MF T/R	A 4
7290	A10265-33221	33.2KOHM .25W 1% MF T/R	В 3
7291	A10265-10021	10. KOHM .25W 1 MF T/R	83
7292	A10265-20011	2.0 KOHM .25W 1% MF T/R	84
7293	A10265-20011	2.0 KOHM .25W 1% MF T/R	B 4
7294	A10265-68111	6.81KOHM .25W 1% MF T/R	В 3
7295	A10265-10001	100. OHM .25W 1 MF T/R	B 2
7296	A10265-51121	51.1 KOHM .25W 1% MF T/R	B 2
7297	A10265-68111	6.81KOHM .25W 1% MF T/R	B 2
R298	A10265-10001	100. OHM .25W 1 MF T/R	B 2
7299	A10266-2741	270. KOHM .25W 5% CF25 T/R	B 2
R300	C 5062-2	100KOHM LINEAR TRIMPOT	ΡZ
301	A10265-14321	14.3K OHM 0.25W 1% MF T/R	P 4
302	A10265-32421	32.4K OHM 0.25W 1% MF T/R	P 4
303	A10265-19121	19.1K OHM 0.25W 1% MF T/R	P 4
7304	A10265-39221	39.2KOHM .25W 1% MF T/R	P 4
7305	A10265-35731	357.KOHM .25W 1 MF T/R	P 4
7306	A10266-3021	3.0 KOHM .25W 5 CF T/R	0 1
7307	A10266-1521	1.5 KOHM .25W 5% CF T/R	0 1
308	A10266-1041	100. KOHM .25W 5% CF25 T/R	0 1
7309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
7310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
312	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
7314	C 7779-9	22. DHM .25W 5% FU/FP T/R	N 4
315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
7316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
318	C 7779-9	22. OHM . 25W 5% FU/FP T/R	N 4
7319	A10266-2731	27. KOHM . 25W 5 CF T/R	N 5
7320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
7321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
7322	A10266-2051	2.0 MDHM .25W 5 CF T/R	К 5
7323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
7324	A10266-4711	470. OHM .25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM .25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
7327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
7328	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
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		CROWN INTERNATION	AL INC
		1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
DRAWINGS	AND SPECIFICATIONS AR		HEET 18 OF 22

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R330	A10266-4741	470. KOHM . 25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM .25W 5% CF T/R	L 5
R332	A10265-10001	100 OHM 0.25W 1% MF T/R	
R338	A10266-1041	100. KOHM .25W 5% CF25 T/R	JБ
R339	A10266-4731	47. KOHM .25W 5% CF25 T/R	J 6
R340	A10266-5121	5.1 KOHM .25W 5 CF T/R	L 6
R341	A10266-1531	15. KOHM .25W 5% CF T/R	L 6
R342	A10266-3921	3.9 KOHM .25W 5% CF T/R	L 5
R343	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R344	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
R345	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R346	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
R347	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R348	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R349	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R350	A10266-4701	47.0 OHM .25W 5 CF T/R	L 5
R351	A10266-2031	20. KOHM . 25W 5 CF T/R	K 4
R352	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R353	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
R354	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
R355	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R356	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R357	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
R358	A10266-2031	20. KOHM . 25W 5 CF T/R	
R359	A10265-10R01	10.0 DHM .25W 1 MF T/R	<u>N 4</u>
R360	A10266-1211	120. OHM .25W 5 CF T/R	<u>N 4</u>
R361 R362	C 6048-0	500 OHM PIHER TRIM	N 4
R363	A10265-10R01	10.0 DHM .25W 1 MF T/R 1.02K DHM 0.25W 1% MF T/R	N 4
R364		18.2K OHM Ø.25W 1% MF 1/R	N 3 N 3
R365		1.02K OHM 0.25W 1% MF T/R	N 3
R366		18.2K OHM Ø.25W 1% MF T/R	N 3
R367	A10265-10R01	10 OHM 0.25W 1% MF T/R	N 3
R368	A10266-4711	470. DHM .25W 5% CF T/R	
R369	A10266-4711	470. OHM . 25W 5% CF T/R	J 4
R400	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
R401	A10265-14321		84
R402	A10265-32421	32.4K OHM 0.25W 1% MF T/R	B 4
R403	A10265-19121	19.1K OHM 0.25W 1% MF T/R	B 4
R404	A10265-39221	39.2KOHM .25W 1% MF T/R	B 4
R405	A10265-35731	357.KOHM .25W 1 MF T/R	B 5
R406	A10266-3021	3.0 KOHM .25W 5 CF T/R	B 1
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	B 1
R408	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 1
R409	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
R410	A10266-4711	470. OHM .25W 5% CF T/R	C 5
		CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 DRAWN KLW 11-07-97 DWG. NO.	PHONE (219) 294-6 HEET 19 OF 22

REE DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R411	A10266-4711	470. OHM . 25W 5% CF T/R	C 5
R412	C 7779-9	22. DHM . 25W 5% FU/FP T/R	C 5
R413	A10266-4711	470. OHM . 25W 5% CF T/R	C 5
R414	C 7779-9	22. OHM . 25W 5% FU/FP T/R	C 4
R415	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R416	A10266-4711	470. DHM .25W 5% CF T/R	C 4
R417	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R418	C 7779-9	22. DHM .25W 5% FU/FP T/R	C 4
R419	A10266-2731	27. KOHM.25W 5 CF T/R	С 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM .25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM .25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM .25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-1531	15. KOHM .25W 5% CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R458	A10266-2031	20. KOHM .25W 5 CF T/R	E 4
R459	A10265-10R01	10.0 DHM .25W 1 MF T/R	СЗ
R460	A10266-1211	120. OHM .25W 5 CF T/R	СЗ
R461	C 6048-0	500 OHM PIHER TRIM	C 4
R462	A10265-10R01	10.0 OHM .25W 1 MF T/R	C 4
R463	A10265-10211	1.02K OHM 0.25W 1% MF T/R	С 3
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		CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS AR	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN KLW 11-07-97 DWG. NO. St	PHONE (219) 294- HEET 20 OF 22

PARAGE A10265-10221 15.2X OHM 0.25W 1X. MF T/R C 3 RAGES A10255-10211 1.02X OHM 0.25W 1X. MF T/R C 3 RAGE A10255-10211 1.02X OHM 0.25W 1X. MF T/R C 3 RAGE A10256-10801 120 OHM 0.25W 1X. MF T/R C 3 RAGE A10256-1711 470. OHM 0.25W 5X. CF T/R C 3 RAGE A10256-4711 470. OHM 0.25W 5X. CF T/R C 4 RAGE A10256-4711 470. OHM .25W SX. CF T/R C 4 S2 C 5781-6 BPD 3.POS PC SLIDE SWITCH I 1 1 S2 C 5781-6 BPD 3.POS PC SLIDE SWITCH I 1 1 S2 C 5864-6 10P DELROW UNSHER PLAB 2720-5 K K 5 U1X C 9494-3 HEATSINK. T0220 PLUG IN H 5 1 5		C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
A465 A10265-10211 1.02.X OHM 0.25W 1X. MF T/R C 3 A466 A10265-10221 18.2X OHM 0.25W 1X. MF T/R C 3 A467 A10265-10211 10.0HM 0.25W 1X. MF T/R C 3 A468 A10266-4711 470. OHM .25W 5X. CF T/R C 4 A51 C 7560-5 DPDT 3PD5 PC SLIDE SWITCH C 1 S1 C 7560-5 DPDT 3PD5 PC SLIDE SWITCH C 1 TP100 C 6564-6 10P DELROW UNSHED HDR 97239-5 K 6 TP202 C 6564-6 10P DELROW UNSHED HDR 97239-5 K 6 U1 C 5095-2 MC7815CT +15V. REG H 5 U12 C 5095-4 MC7815CT +15V. REG I 5 U2 C 5095-4 MC7815CT +15V. REG I 5 U2 C 5495-5 J 7 H 6 A1520 PLUG IN I 5 U2 C 5495-6 I 6 S000KET.8P1N DIP 2-540463-3 H 2 U2 C 5451-5 J 7 K 6 S00KET.8P1N DIP 2-5404663-3 H 2 U3				
A+66 A10265-10221 18.2K OHM 0.25W 1% MF T/R C 3 A467 A10255-10201 10 OHM 0.25W 1% MF T/R C 3 A468 A10256-4711 470. OHM .25W 5% CF T/R G 4 A168 A10256-4711 470. OHM .25W 5% CF T/R G 4 S1 C 7960-5 DPD 3 PDP SP CS LIDE SWITCH I 1 S2 C 5781-5 SP31 MONO/STERED SWITCH I 1 S2 C 5634-6 10P DELROW UNSHED HDR 37230-5 K 5 T1200 C 5634-6 10P DELROW UNSHED HDR 37230-5 F 8 U1 C 5494-3 He17SINK, T0220 PLUE IN H 5 U2 C 5985-0 MC791SCT -15V, RE6 I 1 U2 C 594-3 H 4 I 1 U2 C 3451-9 IC SOCKET, BPIN DIN EXT A55EMELY H 2 U3 INSTALLED ON NEXT A55EMELY H 2 U U3 STALLED ON NEXT A55EMELY H 2 U3 I 02754-1 CD4665 14 STAGE BIN CNTR/OSC H 6 U3 102714 C 363078P DUAL LOW MARSO ONLY J 3 U100 C 3445-1 LM33079N OUAD OP AMP SGS ONLY				
A18265 A18265-4711 478. OHM. 25W 5% CF T/R C 3 A486 A18265-4711 478. OHM. 25W 5% CF T/R C 4 A51 C 7968-5 DPDT 3P05 PC SLIDE SWITCH C 1 S1 C 7968-5 DPDT 3P05 PC SLIDE SWITCH C 1 TP100 C 6584-6 10P DBLROW UNSHRD HDB 7230-5 F 6 U1 C 5095-2 MC7815CT +15V, REG H 5 U2 C 5095-4 MC7815CT +15V, REG I 5 U2 C 5095-4 MC7815CT +15V, REG I 5 U2 C 9494-3 HEATSINK, T0228 PLUG IN H 5 U3				
A19256 -4711 478. DHM. 25W 5% CF T/R G 4 A468 A19256 -4711 478. DHM. 25W 5% CF T/R G 4 S1 C 7580 -5 DPD 3905 PC 5LIDE SWITCH I 1 S2 C 6781 -6 6P3T MONO/STEREO SWITCH I 1 S2 C 6781 -6 6P3T MONO/STEREO SWITCH C 1 T1802 C 5544 -6 18P DBLROW UNSHAD HDR 87238 -5 K 6 TF2080 C 5545 -6 18P DBLROW UNSHAD HDR 87238 -5 F 6 UX C 9494 -3 HEATSINK. T0228 PLUG IN H 5 UZ C 5955 -0 MC7915CT -15V. REG I 5 U2 C 5954 -6 102 TSTALLED ON NEXT ASSEMBLY H 2 U303 C 3451 -9 IC SOCKET. BPIN DIP 2-640463 -3 H 2 U4 C 7536 -1 MC3307BP DUAL LOW NOISE OP AMP F 6 U310 I 1651 -1 MC33079N QUAD OP AMP SGS ONLY J 3 U102 I 1651 -1 MC33079N QUAD OP AMP SGS ONLY J 3 U102 I 16151 -1 MC33079N QUAD OP AMP SGS ONLY D 4 U102 I 16157 -1 Z50311 DUAL NPN 80V SIP D 2 U102 I 16177 -1 </td <td></td> <td></td> <td></td> <td></td>				
R488 A18255-4711 476. DHW. 25W 5% CF T/R G 4 S1 C 7868-5 DPDT 3P05 PC SLIDE SWITCH I S2 C 5781-6 BP3T MON/STEREO SWITCH C 1 TP100 C 6554-6 10P DELROW UNSHAD HDB 87230-5 K 6 TP208 C 5654-6 10P DELROW UNSHAD HDB 87230-5 K 6 U1 C 5095-2 MC7915CT +15V. REG H 5 U2 C 5995-4 MC7915CT -15V. REG I 5 U2 C 995-7 HEATSINK. T0228 PLUE IN H 5 U2 C 9494-3 HEATSINK. T0228 PLUE IN I 5 U3				
SI C 7969-5 DPD1 3P05 PC SLIDE SWITCH I S2 C 6781-6 BP31 MONO/STERED SWITCH C 1 S2 C 6554-6 14P DELROW UNSHRD HDR 97230-5 K 6 TP200 C 6554-6 14P DELROW UNSHRD HDR 97230-5 K 6 U1 C 5055-2 MC7015CT +15V, REG H 5 U1X C 9494-3 HEATSINK, T0220 PLUG IN H 5 U2X C 9494-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 5 U3X C 9454-3 HEATSINK, T0220 PLUG IN 1 3 U3X C 7535-1 MC303079P DUAL LOW NOISE OP AMP F 6 U3X C 7444-0 LM33079P DUAL COMPARATOR 0 3 U102A 101374-1 25A1349 DUAL PNP 80X SIP 0 2 U103A 101575-1 25C3361 DUAL OW PAMP 565 ONLY 0 3 U104A 101375-1 25C3361 DU				
52 C 6781-6 673T MONO/STERED SWITCH C 1 TP180 C 6564-6 10P DBLROW UNSHRD HDR 87230-5 K 6 TP200 C 5564-6 10P DBLROW UNSHRD HDR 87230-5 F 5 U1 C 5095-2 MC7815CT +15V, REG H 5 U1X C 9494-3 HEATSINK, T0220 PLUG IN H 5 U2 C 5096-0 MC7915CT +15V, REG I 5 U2 C 5444-3 HEATSINK, T0220 PLUG IN I 5 U3 INSTALLED ON NEXT ASSEMBLY H 2 U4 C 7636-1 MC33078P DUAL LOW NOISE DP AMP F 6 U3 INSTALLED ON NEXT ASSEMBLY H 2 U4 C 7636-1 MC33078P DUAL LOW NOISE DP AMP F 6 U3 10161 C 7444-0 LM33079N DUAD OP AMP 5GS ONLY J 3 U103 101651-1 MC33079N OUAD OP AMP 5GS ONLY O 4 U103 101651-1 MC33079N OUAD OP AMP 5GS ONLY O 4 U103 101651-1 MC33079N OUAD OP AMP 5GS ONLY O 4 U103 101651-1 MC33079N OUAD OP AMP 5GS ONLY O 4 U104 C 7444-0				
TP100 C 6564-6 10P DBLROW UNSHRD HDR 87230-5 K 6 TP200 C 6505-2 MC7815CT 15% REG H 5 U1 C 5905-2 MC7815CT 15% REG H 5 U2 C 5905-0 MC7915CT 15% 76220 PLUG IN H 5 U2 C 5905-0 MC7915CT 15% 76220 PLUG IN H 5 U2 C 5905-0 MC7915CT 15% 76220 PLUG IN H 5 U3 C 3451-3 HEATSINK T0220 PLUG IN H 2 U3 I C 7635-1 MC330780 DUAL DOW NET ASSEMBLY H 2 U10 101651-1 MC330780 DUAL DOW AMP SCS ONLY J 3 3 10102 101374-1 2503313 DUAL DOW SIP P 2 10103 101651-1 MC330780 DUAD OP AMP SCS ONLY O 4 10102 101651-1 MC330780 DUAD OP AMP SCS ONLY				
TP2209 C E554-6 10P DBLROW UNSHRD HDR B7230-5 F 6 U1x C S895-2 MC7815CT +15V, REG H 5 U1x C S494-3 HEATSINK, T0228 PLUG IN H 5 U2x C S494-3 HEATSINK, T0228 PLUG IN H 5 U2x C S494-3 HEATSINK, T0228 PLUG IN H 7 U3x C S494-3 HEATSINK, T0228 PLUG IN H 7 U3x C S494-3 HEATSINK, T0220 PLUAL LOW ND15E OP AMP F 6 U3x C 7454-1 CD4060 14 STAEE BIN CNTR/OSC H 6 U1a 101651-1 MC33078P DUAL COM NAR SES ONLY J J U1a 11374-1 2541345 DUAL PN 804 S1P O 2 U1a 11375-1 25C3381 DUAL NPN 804 S1P P 2 U1a 11651-1 MC33078P DUAL OW PAMP S5S ONLY Q A U204 16151-1 MC33078P DUAL COM PARATOR K S U104 C 7434-9 DUAL NPN 804 S1P				
U1 C 5095-2 MC7015CT +15V, REG H 5 U1X C 9494-3 HEATSINK, T0220 PLUG IN H 5 U2 C 5095-0 MC7015CT -15V, REG I 5 U2X C 9494-3 HEATSINK, T0220 PLUG IN I 5 U3 INSTALLED ON NEXT ASSEMBLY H 2 U4 C 7535-1 MC33072P DUAL LOW NOISE OP AMP F 6 U5 102754-1 CD4060 14 STASE BIN CNTR/OSC H 6 U101 101651-1 MC33073P DUAL COW NOISE OP AMP F 6 U102 101651-1 MC33073N QUAD OP AMP 565 DNLY J 3 U102 101374-1 25A1349 DUAL PNP 80V S1P O 2 U103 101651-1 MC33073N QUAD OP AMP 565 DNLY O 4 U104A 101375-1 25C3301 DUAL NOW NOISE OP AMP N 5 U105 C 6411-0 H1122 OPTO SCR M 5 U107 C 4345-2 LM33072P DUAL COMPARATOR A 2 U204 101374-1 25A1345 DUAL PNP 80V S1P A 2 U204 101374-1 25A1345 DUAL PNP 80V S1P A 2 U204 101375-1 MC33072P NUAL COMPARAT				
DIX C 9494-3 HEATSINK. T0220 PLUG IN H 5 U2X C 5095-0 MC7915CT -15V. REG 1 5 U3X INSTALLED ON NEXT ASSEMBLY H 2 U3X C 3451-9 IC 50CKET. 8PIN DIP 2-640463-3 H 2 U4 C 7636-1 MC33078P DUAL LOW NOISE DP AMP F 6 U5 102754-1 CD4060 14 STAGE BIN CNTR/OSC H 6 U101 C 7444-8 LM393 DUAL COMPARATOR 0 3 U1021 101551-1 MC33079N DUAD OP AMP SGS ONLY 0 4 U103 101551-1 MC33079N DUAD OP AMP SGS ONLY 0 4 U103 101551-1 MC33079N DUAD OP AMP SGS ONLY 0 4 U103 101551-1 MC33079N DUAD OP AMP SGS ONLY 0 4 U104 101515-1 MC33079N DUAD OP AMP SGS ONLY 0 4 U107 C 4345-2 LM339N VOLT COMPARATOR K 5 U108 101551-1 MC33079N DUAD OP AMP SGS ONLY 6 3 U201 C 7444-0 LM330 JUAL COMPARATOR K 5 U203 101551-1 MC33079N DUAD OP AMP SGS ONLY A 4 U203 101551-1 MC3				
12 C 5095-0 MC7915CT -15V. REG 1 5 12x C 9494-3 HEATSINK. T0220 PLUG IN 1 5 13 INSTALLED ON NEXT ASSEMBLY H 2 13x C 3451-3 IC SOCKET. 0PIN DIP 2-640403-3 H 2 14 C 7636-1 MC3070P DUAL LOW NOISE OP AMP F 6 14 C 7636-1 MC3070P DUAL LOW NOISE OP AMP F 6 1010 101651-1 MC3070P DUAL COMPARATOR 0 3 10101 C 7444-0 LM393 DUAL COMPARATOR 0 3 10102A 101374-1 2SA1349 DUAL PNP 80V SIP 0 2 10103 101651-1 MC30079N OUAD OP AMP 5GS DNLY 0 4 10104 101374-1 2SA1349 DUAL COMPARATOR M 5 10107 C 4345-2 LM339N VOLT COMPARATOR K 5 10107 C 4345-2 LM393 DUAL COM PARTOR K 5 10201 101651-1 MC33079N OUAD OP AMP 5GS ONLY G 3 12201 C 7444-0 LM393 DUAL COM PARTOR A 2 12020 101374-1 2SA1349 DUAL PN 80V SIP A 2 12204 101374-1 ZSA1349 DUAL PN 80V SIP <td></td> <td></td> <td></td> <td></td>				
U2X C 9494-3 HEATSINK, TØ22Ø PLUG IN I 5 U3 INSTALLED ON NEXT ASSEMBLY H 2 U3X C 3451-9 IC SOCKET, BPIN DIP 2-640463-3 H 2 U4 C 7636-1 MC33078P DUAL LOW NOISE OP AMP F 6 U5 102754-1 CD4060 14 STAGE BIN CNTR/OSC H 6 U101 C 7444-0 LM393 DUAL COMPARATOR 0 3 U102.1 C 7444-0 LM393 DUAL COMPARATOR 0 4 U103.10155-1 MC33078P DUAL OP AMP SGS ONLY 0 4 U103.10155-1 MC33078P DUAL COMPARATOR M 5 U103.101651-1 MC33078P DUAL OP AMP SGS ONLY 0 4 U104.101375-1 2SC3381 DUAL NPN 80V SIP P 2 U103 101651-1 MC33078P DUAL LOW NOISE OP AMP N 3 U208 101651-1 MC33078P DUAL DOP AMP SGS ONLY G 3 U208 101651-1 MC33078P DUAD OP AMP SGS ONLY G 3 U208 101651-1 MC33078P DUAD OP AMP SGS ONLY G 3 U208 101651-1 MC33078P DUAD OP AMP SGS ONLY A 4 U203 101651-1 MC33078P DUAL COMPARATOR P 5 </td <td></td> <td></td> <td></td> <td></td>				
U3 INSTALLED ON NEXT ASSEMBLY H 2 U3X C 3451-9 IC SOCKET. BFIN DIP 2-640463-3 H 2 U4 C 7535-1 MC33078P DUAL LOW NOISE OP AMP F 5 U5 102754-1 CD4060 14 STAGE BIN CNTR/OSC H 6 U100 101851-1 MC33079P DUAL OP AMP SC5 ONLY J 3 U101 C 7444-0 LM393 DUAL COMPARATOR O 3 U102A 101375-1 2SC3301 DUAL OP AMP SC5 ONLY O 4 U103A 101375-1 2SC3301 DUAL OP AMP SC5 ONLY O 4 U104A 101375-1 2SC3301 DUAL DP AMP SC5 ONLY O 4 U105 C 6411-0 H11C2 OPTO SCR M 5 U107 C 4345-2 LM33078P DUAL LOW NOISE OP AMP N 3 U202A 101374-1 Z5A1349 DUAL COMPARATOR A 3 U202A 101374-1 Z5A1349 DUAL PNP 80V SIP A 2 U202A 101374-1 Z5A1349 DUAL PNP 80V SIP A 2 U202A 101374-1 Z5A1349 DUAL PNP 80V SIP A 2 U202A 101374-1 Z5C381 DUAL NPN 80V SIP B 2 U202A C 7365-1 MC3307	<u></u> U2X			
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1718 WEST MISHAWAKA ROAD FIKHART INDIANA 46517 PHONE (219) 204-	Z5		OPEN	D 2
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DRAWINGS AND SPECIFICATIONS ARE THE				
ERTY OF CROWN INTERNATIONAL, INC. AND DRAWN KLW 11-07-97 DWG. NO. SHEET 21 OF 22	EDRAWINGS	AND SPECIFICATIONS AR	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 45517 E THE DRAWN KLW 11-07-97 DWG. NO.	PHONE (219) 294- CHEET 21 OF 22

(COMPONENT SIDE VIEW)



			DECODICTION	DATE	ΠV	Α	PPR	JVAL	.S
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UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125408.
- 2. PRINTED WIRING BOARD PART NUMBER 125414-3.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125412-3.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- 8. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.

CAUTION STATIC CAN DAMAGE COMPONENTS!								ACTIVE erence Use Only
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PRIN	TS TO	1718 WEST				ĒF	DF APPARATU	IONAL INC. 517 PHONE (219) 294-8000
ĸ		PW	/A;	СТЕ	1	ØA	A MA	IN DRILLS SPECIFIED X.XX - ± 0.020 X.XX - ± 0.010 DRILLS - ± 0.003
		DRAWN		03/30/98	A	PPRO	VED BY:	DO NOT SCALE PRINT
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		PROJ #	MD	360D0	PE	EB	3-31-98	DWG. NO. SHEET 1 OF 22 REV
		NEXT ASS	EMBLY					125412-3 (A)

	PARTS LI			
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION	
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268	
A10265-10001	100. OHM .25W 1 MF T/R	9	R181, R184, R195, R198, R281,	
			R284, R295, R298, R332	
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467	
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100,R101,R102,R104,R160,	
			R163, R178, R191, R200, R201,	
			R202,R204,R260,R263,R278,	
			R291	
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,	
			R219, R230, R231, R4, R7	
A10265-10211	1.02K OHM 0.25W 1% MF T/R	4	R363,R365,R463,R465	
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218	
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216	
A10265-10R01	10.0 OHM .25W 1 MF T/R	6	R359, R362, R367, R459, R462, R46	
A10265-11821	11.8K OHM 0.25W 1% MF T/R	2	R108, R208	
A10265-14321	14.3K OHM 0.25W 1% MF T/R	4	R187, R287, R301, R401	
A10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215	
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273	
A10265-18221	18.2K OHM .25W 1% MF T/R	4	R364,R366,R464,R466	
A10265-19121	19.1K OHM 0.25W 1% MF T/R	4	R189, R289, R303, R403	
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,	
			R280, R292, R293	
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217	
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,	
			R274,R5,R6	
A10265-27401	274. OHM .25W 1% MF T/R	4	R143, R144, R243, R244	
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269	
A10265-32421	32.4K OHM 0.25W 1% MF T/R	4	R188, R288, R302, R402	
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290	
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250	
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305, R405	
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304, R404	
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1	
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,	
			R205, R206, R213, R223, R275,	
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,	
- ""			R429	
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2	
A10265-66501	665 OHM 0.25W 1% MF T/R	8	R142, R145, R146, R147, R242,	
			R245, R246, R247	
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,	
			R283, R294, R297	
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210	
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270	
A10266-1031	10. KOHM .25W 5% CF T/R	19	R153, R156, R24, R253, R256,	
			R343, R345, R347, R348, R349,	
			R352, R357, R443, R445, R447,	
			R448, R449, R452, R457	
		1 I N	NTERNATIONAL INC.	
	FICATIONS ARE THE 1718 WEST MISHAWAKA IATIONAL, INC. AND DRAWN JAW 03 COPIED, OR USED DRAWN JAW 03 INFACTURE OR SALE WITHOUT PERMISSION. PROJ. MD36		ELKHART, INDIANA 46517 PHONE (219) 294-8	
SE DRAWINGS AND SPECT			DWG. NO. SHEET 2 OF 22	

	PARTS LIS	т	
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10266-1041	100. KOHM . 25W 5% CF25 T/R		R148, R151, R20, R21, R248,
<u> </u>			R251, R308, R325, R338, R408,
			R425, R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10, R17, R22, R8, R9
A10266-1211	120. OHM . 25W 5 CF T/R	2	R360, R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307, R323, R407, R423
A10266-1531	15. KOHM .25W 5% CF T/R	2	R341, R441
A10266-1541	150. KOHM . 25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	4	R351, R358, R451, R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	3	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
		İ –	R227, R254, R257
A10266-2731	27. KOHM.25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM . 25W 5% CF25 T/R		R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315, R316, R317, R324, R368,
······			R369, R410, R411, R413, R415,
			R416, R417, R424, R468, R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339, R344, R346, R353, R354,
			R355, R356, R439, R444, R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM .25W 5% CF T/R	2	R330, R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326, R340, R426, R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271
A10266-5641	560. KOHM .25W 5% CF T/R	1	R16
A10266-6831	68. KOHM .25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327, R427
A10266-8211	820. OHM .25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM .25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164,C264
A10579-222KC	2200PF 100 10% POLY FILM T/A	4	C175, C176, C275, C276
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		IN	NTERNATIONAL INC.
			ELKHART, INDIANA 46517 PHONE (219) 294-80
SE DRAWINGS AND SPECIF			DWG. NO. SHEET 3 OF 22
PERTY OF CROWN INTERNA	TIONAL, INC. AND DRAWN JAW 03	20/30	

	PARTS LIS	Т	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232.
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	59	D10,D100,D101,D102,D103,
			D104,D105,D106,D107,D108,
			D109,D11,D111,D112,D115,
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134, D135
			D200, D201, D202, D203, D204,
			D205, D206, D207, D208, D209,
			D211,D212,D215,D216,D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234, D235, D9
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104.Q106.Q130.Q204.Q206.
			Q230
C 3625-8	2N4125 30V PNP T/R	22	0100,0101,0114,0116,0118,
			0120,0122,0123,0124,0125,
			0129,0200,0201,0214,0216,
			Q218,Q220,Q222,Q223,Q224,
			Q225,Q229
C 3786-8	MP54250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
		1	Q208,Q211,Q215
C 3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			Q227
C 4303-1	1000UF 35V AXIAL CAP	2	C1, C2
C 4345-2	LM339N VOLT COMPARATOR	2	U107, U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T	1	DB
C 5095-2	MC7815CT +15V. REG	1 1	
C 5096-0	MC7915CT -15V, REG	1	U2
C 5215-6	22. MOHM .25W 5 THICK FILM T	4	R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107,C207
C 5362-6	2.2UF 50V VERT ELECT T/A	3	C151, C251, C4
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
C 6411-0	H11C2 OPTO SCR	2	U106,U206
C 6564-6	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STEREO SWITCH	1	52
C 6802-0	.47UF 50V AXIAL CER T/R 474	2	C152, C252
C 6804-6	.1UF 50V AXIAL CER T/R 104	24	C3, C5, C134, C135, C136, C137,
		1	C138, C139, C141, C144, C145,
·····		1	C160, C161, C234, C235, C236,
		1	C237, C238, C239, C241, C244,
		1	C245, C267, C268
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	For Reference Use Only	١١	NTERNATIONAL INC
E DRAWINGS AND SPE	ECIFICATIONS ARE THE 1718 WEST MISHAWAKA F ERNATIONAL, INC. AND DRAWN JAW 03 ANUFACTURE OR SALE ES WITHOUT PERMISSION. PROJ. MD366		ELKHART, INDIANA 46517 PHONE (219) 294-6 DWG. NO. SHEET 4 OF 22

	PARTS LIS	т	
C. P. N.	DESCRIPTION	ΙΟΤΥ	REFERENCE DESIGNATION
C 6805-3	.022UF 100V AXIALCER T/R 223		C103, C104, C115, C116, C215,
2 0003 3			C216, C265, C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117, C124, C131, C217, C224,
			C231
C C000 7	470, PF 100V 5% NPO AXL CER T	2	C120, C220
C 6808-7			
C 6810-3	180PF 100V AXIAL CER T/R 181	2	
<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T	14	C126, C158, C159, C162, C163,
			C173, C174, C226, C258, C259,
			C262, C263, C273, C274
C 6812-9	47PF 200V 10% NPO AXL CER	16	C106,C110,C111,C112,C113,
			C114,C128,C133,C206,C210,
			C211,C212,C213,C214,C228,
			C233
C 6813-7	27PF 200V 10% NPO AXIAL CER	8	C100,C101,C102,C130,C200,
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118,C119,C129,C218,C219,
			C229
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127,C227
C 7417-6	3300PF 100V 10% CAP	4	C122, C123, C222, C223
C 7444-0	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	16	Q107,Q110,Q113,Q117,Q119,
		<u> </u>	Q121,Q126,Q128,Q207,Q210,
			Q213, Q217, Q219, Q221, Q226,
			Q228
C 7526-4	3POS .1 CENTER MTA HEADER	1	J1
C 7597-5	J202 N-CHANNEL JFET		Q131, Q231
		2	
C 7636-1	MC33078P DUAL LOW NOISE OP A		
C 7779-9	22. OHM . 25W 5% FU/FP T/R	8	R309, R312, R314, R318, R409,
			R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	S1
C 7964-7	.22UF 100V AXIAL CER CAP T/R		C140,C146,C240,C246
C 8182-5	1N753A 6.2V .5W ZENER DIODE		D120, D220
C 8576-8	100UF 35V 10% ALUM ELECT T/A	6	C105,C149,C150,C205,C249,
			C250
C 8803-6	.047UF 50V 10%X7R AXL CER T/	4	C141,C145,C241,C245
C 8812-7	5.5" CABLE TIE	4	HW10,HW7,HW8,HW9
C 8836-6	100 OHM 0.50W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/	11	C10,C109,C125,C132,C153,
			C209,C225,C232,C253,C6,
			C9
C 9079-2	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
C 9464-6	10PF 100V 5% NPO RAD CER T/R	2	C108, C208
C 9494-3	HEATSINK, TØ220 PLUG IN	2	U1X, U2X
C 9615-3	680PF 100V 5% AXL CER NPO T/	1	C8
C 9857-1	LED, RED T1 .1 LEAD SPACE T/	4	E100,E101,E200,E201
C10208-4	100.UF 25V 20% RAD ELECT T/R	5	C171, C172, C271, C272, C7,
C10570-7	20 PIN HDR PICOFLEX TIN		J2A
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For Re	eference Use Only	TN	NTERNATIONAL INC.
	ILIZIG WEDI MIDBAWAKA B		ELKHART, INDIANA 46517 PHONE (219) 294-80
SE DRAWINGS AND SPECI DPERTY OF CROWN INTERN NLL NOT BE REPRODUCED THE BASIS FOR THE MAN APPARATUS OR DEVICES	ATIONAL, INC. AND DRAWN JAW 03		DWG. NO. SHEET 5 OF 22

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	REFERENCE DESIGNATION	ΩΤΥ		DESCRIPTION	C.P.N.
	J2B	1	IN	18 PIN HDR PICOFLEX	C10571-5
	C143, C148, C243, C248	4		220UF 25V 20% NP RAD	C10587-1
	C142, C147, C242, C247	4		15UF 35V 20% NP RAD 1	210588-9
	Q102,Q202	2		SPS8010 60V NPN T/R	D 2961-7
	Q112,Q212	2		MPSA18 45V NPN T/R	D 2962-5
	N100, N200	2		RESISTOR NETWORK-C	D 6082-8
	J701, J800	2	МТА	CABLE, 6 INCH 12 PIN	D 8680-7
	J700, J801	2		CABLE, 10 INCH 12 PI	D 8681-5
	J901X	1		HDR, 14PIN, VERT, DO	100375-1
	U102A, U202A	2		2SA1349 DUAL PNP 80V	101374-1
	U104A, U204A	2		2SC3381 DUAL NPN 80V	101375-1
	U100, U103, U200, U203	4		MC33079N QUAD OP AMP	101651-1
	U5	1		CD4060 14 STAGE BIN	102754-1
	1	1		PWB, CT'10A MAIN	125414-3
	R107, R207	2	DNT	POT, 5KOHM 10% LNR 2	125931-1
			2111		
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<u>۲</u> ۳ 22		30/98	JAW 03/	COPIED, OR USED	NOT BE REPRODUCED,
1 9	ITERNATIONAL 21 SLKHART, INDIANA 46517 PHONE (21) DWG. NO. SHEET 6 125412-3	0AD 130/98	MISHAWAKA R	ce Use Only	INAC For Reference PRAWINGS AND SPECIF ATY OF CROWN INTERNA NOT BE REPRODUCED, BASIS FOR THE MANL ARATUS OR DEVICES V ARATUS OR DEVICES V

	C.P.N.	DESCRIPTION	MAP LOC.
	125414-3	PWB, CT'10A MAIN, , ,	
1	C 4303-1	1000UF 35V AXIAL CAP	H 4
	C 4303-1	1000UF 35V AXIAL CAP	I 4
	C 6804-6	, 1UF 50V AXIAL CER T/R 104	
	C 5362-6	2.2UF 50V VERT ELECT T/A	J_5
	C 6804-6	.1UF 50V AXIAL CER T/R 104	J
C5 C6	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
C7	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 5
C8	C 9615-3	680PF 100V 5% AXL CER NPO T/R	E 6
C9	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	IG
	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Н 5
C100	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 3
C101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
C104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	
C107	C 5311-3	22UF 50V 20% NP VERT T/A	<u>к 1</u>
C108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
C109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	
C110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
C111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
C112	C 6812-9	47PF 200V 10% NPO AXL CER	<u>L</u> 2
C113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
C114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
C115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
C116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
C117	C 6806-1	.01UF 100V AXIAL CER T/R 103	М 3
C118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
C119	C 6814-5	12PF 200V AXIAL CER T/R 120	М З
C120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
C121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
C122	C 7417-6	3300PF 100V 10% CAP	P 5
C123	C 7417-6	3300PF 100V 10% CAP	05
C124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
C125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 4
C126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	К 4
C127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	К 4
C128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЗ
C130	C 6813-7	27PF 200V 10% NPO AXL CER	КЗ
C131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЗ
C132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЗ
C133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C134	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
C135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
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E DRAWINGS	AND SPECIFICATIONS DWN INTERNATIONAL, EPRODUCED, COPIED,		PHONE (219) 294-

	C. P. N.	PARTS LIST	MAP LOC.
	C 6804-6	.1UF 50V AXIAL CER T/R 104	
<u>C136</u> C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
	C 6804-6	.1UF 50V AXIAL CER T/R 104	0 4
C138	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
C139 C140	C 7964-7	.22UF 100V AXIAL CER CAP T/R	
C140	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C141	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
<u>C145</u>	C 7964-7	.22UF 100V AXIAL CER CAP T/R	P 4
C146	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
<u>C147</u>		220UF 25V 20% NP RAD ELEC T/R	P 5
C148	C10587-1 C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 5
<u>C149</u>	C 8576-8	100UF 35V 10% ALUM ELECT 1/A	M 5
C150		2.2UF 50V VERT ELECT T/A	L 5
C151	C 5362-6		
C152	C 6802-0	47UF 50V AXIAL CER T/R 474	L 5
C153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	K 5
C158	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 4
<u>C159</u>	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 3
<u>C160</u>	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	N 4
<u>C161</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>N 3</u>
C162	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R 100PF 200V 10% NPO AXL CER T/R	
<u>C163</u>	C 6811-1		<u>I 4</u>
<u>C164</u>		.1UF 250V 5% MTL POLY FILM T/A	06
<u>C171</u>	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1 N 3
C173	C 6811-1	100PF 200V 10% NPO AXL CER T/R	
C174	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 3
<u>C175</u>		2200PF 100 10% POLY FILM T/A	P 2
C176		2200PF 100 10% POLY FILM T/A 27PF 200V 10% NPO AXIAL CER	
C200	C 6813-7 C 6813-7	27PF 200V 10% NPO AXIAL CER	G 3
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C202	C 8576-8	100UF 35V 10% ALUM ELECT T/A	H 1
C205	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
C206 C207	C 5311-3	22UF 50V 20% NP VERT T/A	F 1
	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 2
C208 C209	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	<u> </u>
	C 6812-9	47PF 200V 10% NPO AXL CER	<u>G_2</u>
C210	C 6812-9		E 3
C211	C 6812-9	47PF 200V 10% NPO AXL CER 47PF 200V 10% NPO AXL CER	E 2
C212 C213	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
C214	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
C216	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
	C 6806-1	.01UF 100V AXIAL CER T/R 103	D 3
C217	C 6814-5	12PF 200V AXIAL CER T/R 120	D 3
C218	C 6814-5		
C219	L 0014-3	12PF 200V AXIAL CER T/R 120	DЗ
1	NACTIVE		
	Reference Use Only	CROWN INTERNATION	IAL INC
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC		SHEET 8 OF 22

	C.P.N.	DESCRIPTION	MAP LOC.
	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	A 5
220	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
2221	C 7417-6	3300PF 100V 10% CAP	A 5
C222 C223	<u>C</u> 7417-6	3300PF 100V 10% CAP	B 5
C224	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
C225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1	100PF 200V 10% NPO AXL CER T/R	F 4
C227	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXL CER	F 3
C230	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C233	C 6804-6	.1UF 50V AXIAL CER T/R 104	ВЗ
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C230	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 4
C240	C 7964-7	.22UF 100V AXIAL CER CAP T/R	A 4
C241	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELEC T/R	A 4
C244	C 6804-6	.1UF 50V AXIAL CER T/R 104	в 3
C245	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 4
C246	C 7964-7	.22UF 100V AXIAL CER CAP T/R	В 4
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	C 4
C248	C10587-1	220UF 25V 20% NP RAD ELEC T/R	С 5
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	C 4
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	СЗ
C262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	B 6
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	С 3
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЗ
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
C273	C 6811-1	100PF 200V 10% NPO AXL CER T/R	СЗ
C274	C 6811-1	100PF 200V 10% NPO AXL CER T/R	C 2
C275	A10579-222KC	2200PF 100 10% POLY FILM T/A	A 2
C276	A10579-222KC	2200PF 100 10% POLY FILM T/A	B 2
	INACTIVE For Reference Use Only	CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS AR	E THE DEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
EDTY OF CR	OWN INTERNATIONAL, INC EPRODUCED, COPIED, OR OR THE MANUFACTURE OR R DEVICES WITHOUT PERM		SHEET 9 OF 22

	C.P.N.	DESCRIPTION	MAP LOC.
$\frac{1}{2}$	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
)2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
)3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	 G 4
)4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
)5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
)6)6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
)7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J_5
)8	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
99	C 3181-2	DIODE, 1N4148 T/R	Нб
010	C 3181-2	DIODE, 1N4148 T/R	Нб
011	C 3181-2	DIODE, 1N4148 T/R	Нб
012	C 3181-2	DIODE, 1N4148 T/R	Нб
013	C 3181-2	DIODE, 1N4148 T/R	I 6
0100	C 3181-2	DIODE, 1N4148 T/R	К 2
0101	C 3181-2	DIODE, 1N4148 T/R	К 2
0102	C 3181-2	DIODE, 1N4148 T/R	L 3
0103	C 3181-2	DIODE, 1N4148 T/R	L 2
0104	C 3181-2	DIODE, 1N4148 T/R	
0105	C 3181-2	DIODE, 1N4148 T/R	М З
0106	C 3181-2	DIODE, 1N4148 T/R	М З
0107	C 3181-2	DIODE, 1N4148 T/R	МЗ
0108	C 3181-2	DIODE, 1N4148 T/R	M 2
0109	C 3181-2	DIODE, 1N4148 T/R	M 2
0110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	0 5
0112	C 3181-2	DIODE, 1N4148 T/R	P 5
0113	C 5061-4	DIODE, 1N3070 10K/T&R	М З
0114	C 5061-4	DIODE, 1N3070 10K/T&R	К 4
0115	C 3181-2	DIODE, 1N4148 T/R	К 4
0116	C 3181-2	DIODE, 1N4148 T/R	КЗ
0117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
0118	C 3181-2	DIODE, 1N4148 T/R	J 3
0119	C 3181-2	DIODE, 1N4148 T/R	E L
0120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
0121	C 3181-2	DIODE, 1N4148 T/R	L 5
0122	C 3181-2	DIODE, 1N4148 T/R	L 5
0123	C 3181-2	DIODE, 1N4148 T/R	L 6
0124	C 3181-2	DIODE, 1N4148 T/R	L 6
0125	C 3181-2	DIODE, 1N4148 T/R	L 6
0127	C 3181-2	DIODE, 1N4148 T/R	L 6
0128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
0129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
0130	C 3181-2	DIODE, 1N4148 T/R	K 4
0131	C 3181-2	DIODE, 1N4148 T/R	КЗ
0132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
0133	C 3181-2	DIODE, 1N4148 T/R	J 1
0134	C 3181-2	DIODE, 1N4148 T/R	J 2
0135	C 3181-2	DIODE, 1N4148 T/R	К 5
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	For Reference L AND SPECIFICATIONS DWN INTERNATIONAL, EPRODUCED, COPIED, OR THE WANUFACTURE R DEVICES WITHOUT P		

REF DES		PARTS LIST DESCRIPTION	MAP LOC.
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D202	C 3181-2	DIODE, 1N4148 T/R	E 3
D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D204	C 3181-2	DIODE, 1N4148 T/R	D 3
D205	C 3181-2	DIODE, 1N4148 T/R	D 3
D206	C 3181-2	DIODE, 1N4148 T/R	D 3
D207	C 3181-2	DIODE, 1N4148 T/R	DЗ
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	C 3181-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	C 3181-2	DIODE, 1N4148 T/R	В 5
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D213	C 5061-4	DIODE, 1N3070 10K/T&R	D 3
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D217	C 5061-4	DIODE, 1N3070 10K/T&R	F 3
D218	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 3
D219	C 3181-2	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	A 3
D221	C 3181-2	DIODE, 1N4148 T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u> </u>
D224	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D228	C 3533-4 C 2851-1	DIODE, 1N966B 16V ZENER T/R	<u> </u>
D229 D230	C 3181-2	RECTIFIER, 1N4004 SILICON T/R DIODE, 1N4148 T/R	<u> </u>
D230 D231	C 3181-2	DIODE, $1N4148$ T/R	F3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	C 3181-2	DIODE, 1N4148 T/R	G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
D235	C 3181-2	DIODE, 1N4148 T/R	G 6
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
E201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	5.5" CABLE TIE	A 6
HW8	C 8812-7	5.5" CABLE TIE	C 6
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	INACTIN For Reference Us		ONAL INC
	AND SPECIFICATIONS WN INTERNATIONAL, PRODUCED, COPIED, R THE MANUFACTURE DEVICES WITHOUT F	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

	5 C. P. N.	PARTS LIST	MAP LOC.
HW9	C 8812-7	5.5" CABLE TIE	N 6
	C 8812-7	5.5" CABLE TIE	P 6
J 1	C 7526-4	3POS . 1 CENTER MTA HEADER	IG
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	I 3
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	В 6
1801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, , 14PIN,	Н 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	Е З
0100	C 3625-8	2N4125 30V PNP T/R	К 2
0101	C 3625-8	2N4125 30V PNP T/R	К 2
0102	D 2961-7	SP58010 60V NPN T/R	M 4
Q1Ø3	C 3786-8	MPS4250A 40V PNP T/R	M 2
0104	C 3578-9	MPSA93 200V PNP T/R	МЭ
0105	C 3810-6	MPSA42 300V NPN T/R	M 2
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2
Q107	C 7458-0	2N4123 30V NPN T/R	05
Q108	C 3786-8	MPS4250A 40V PNP T/R	05
Q109	C 3810-6	MPSA42 300V NPN T/R	M 4
Q110	C 7458-0	2N4123 30V NPN T/R	05
Q111	C 3786-8	MPS4250A 40V PNP T/R	0 5
Q112	D 2962-5	MPSA18 45V NPN T/R	К 4
0113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	J 3
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	01
0117	C 7458-0	2N4123 30V NPN T/R	01
Q118	C 3625-8	2N4125 30V PNP T/R	М 5
Q119	C 7458-0	2N4123 30V NPN T/R	М 5
Q120	C 3625-8	2N4125 30V PNP T/R	M 4
Q121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
Q123	C 3625-8	2N4125 30V PNP T/R	м 5
Q124	C 3625-8	2N4125 30V PNP T/R	M 4
Q125	C 3625-8	2N4125 30V PNP T/R	<u>M 4</u>
Q126	C 7458-0	2N4123 30V NPN T/R	L 4
Q127	C 3810-6	MPSA42 300V NPN T/R	К 4
Q128	C 7458-0	2N4123 30V NPN T/R	M 4
Q129	C 3625-8	2N4125 30V PNP T/R	M 4
Q130	C 3578-9	MPSA93 200V PNP T/R	L 4
Q131	C 7597-5	J202 N-CHANNEL JFET	J 6
0200	C 3625-8	2N4125 30V PNP T/R	F 2
Q2Ø1	C 3625-8	2N4125 30V PNP T/R	F 2
Q2Ø2	D 2961-7	SPS8010 60V NPN T/R	D 4
	INACT		
	For Reference	LRUWN INTERNATIU	NAL INC
	AND SPECIFICATIONS COMN INTERNATIONAL, EPRODUCED, COPIED, OR THE MANUFACTURE R DEVICES WITHOUT P	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 INC. AND DRAWN LAW 03/30/08 DWG. NO.	PHONE (219) 294- SHEET 12 OF 22

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
0203	C 3786-8	MPS4250A 40V PNP T/R	D 2
0204	C 3578-9	MPSA93 200V PNP T/R	DЭ
0205	C 3810-6	MPSA42 300V NPN T/R	C 2
0206	C 3578-9	MPSA93 200V PNP T/R	C 2
0207	C 7458-0	2N4123 30V NPN T/R	A 5
0208	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	D 4
0210	C 7458-0	2N4123 30V NPN T/R	A 5
0211	C 3786-8	MPS4250A 40V PNP T/R	B 5
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	G 4
0214	C 3625-8	2N4125 30V PNP T/R	G 3
0215	C 3786-8	MPS4250A 40V PNP T/R	F 3
0216	C 3625-8	2N4125 30V PNP T/R	B 1
0217	C 7458-0	2N4123 30V NPN T/R	B 1
0218	C 3625-8	2N4125 30V PNP T/R	С 5
0219	C 7458-0	2N4123 30V NPN T/R	C 5
0220	C 3625-8	2N4125 30V PNP T/R	C 4
0221	C 7458-0	2N4123 30V NPN T/R	C 4
0222	C 3625-8	2N4125 30V PNP T/R	C 4
0223	C 3625-8	2N4125 30V PNP T/R	D 5
0224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
Q228	C 7458-0	2N4123 30V NPN T/R	D 4
Q229	C 3625-8	2N4125 30V PNP T/R	D 4
Q230	C 3578-9	MPSA93 200V PNP T/R	E 4
0231	C 7597-5	J202 N-CHANNEL JFET	G 6
R1	A10265-46421	46.4 KOHM .25W 1% MF T/R	E 2
R2	A10265-53621	53.6 KOHM .25W 1% MF T/R	F 2
R4	A10265-10031	100. KOHM .25W 1 MF T/R	G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	G 5
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031	100. KOHM .25W 1 MF T/R	F 5
R8	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	Н 2
R11	A10266-9111	910. OHM .25W 5 CF T/R	I 2
R12	A10124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	Н 6
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 5
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 6
R16	A10266-5641	560. KOHM .25W 5% CF T/R	G 6
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 6
R18	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
	151407		
	For Reference		
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	THE THE DRAWN JAW 03/30/98 DWG. NO. 5	PHONE (219) 294- CHEET 13 OF 22

REF DES C. P. N. DESCRIPTION M. R20 A10266-1041 100. KOHM .25W 5% CF25 T/R M. R21 A10266-1041 100. KOHM .25W 5% CF25 T/R R R22 A10266-1031 10. KOHM .25W 5% CF T/R R R23 A10266-1031 10. KOHM .25W 5% CF T/R R R24 A10265-10021 10. KOHM .25W 1 MF T/R R R101 A10265-10021 10. KOHM .25W 1 MF T/R R R102 A10265-10021 10. KOHM .25W 1 MF T/R R R102 A10265-10021 10. KOHM .25W 1 MF T/R R R102 A10265-10021 10. KOHM .25W 1 MF T/R R R102 A10265-49311 4.98KOHM .25W 1 MF T/R R R105 A10265-49311 4.98KOHM .25W 1 MF T/R R R106 A10265-24921 24.9 KOHM .25W 1 X MF T/R R R107 12265-49311 5.08 KOHM .25W 1 X MF T/R R R110 A10265-49311 5.08 KOHM .25W 1 X MF T/R R R111 A10265-49311 5.08 KOHM .25W 1 X MF T/R	P LOC.
R21 A10266-1041 100. KOHM .25W 5% CF25 T/R R22 A10266-2051 2.0 MOHM .25W 5% CF T/R R23 A10266-1031 10. KOHM .25W 5% CF T/R R24 A10265-1031 10. KOHM .25W 1% CF T/R R25 A10265-10021 10. KOHM .25W 1 MF T/R R100 A10265-10021 10. KOHM .25W 1 MF T/R R101 A10265-10021 10. KOHM .25W 1 MF T/R R102 A10265-10021 10. KOHM .25W 1 MF T/R R102 A10265-10021 10. KOHM .25W 1 MF T/R R102 A10265-10021 10. KOHM .25W 1 MF T/R R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-10021 10. KOHM .25W 1 MF T/R R106 A10265-10031 10. KOHM .25W 1 MF T/R R107 125931-1 POT. SKOHM .25W 1 XF T/R R108 A10265-24921 24. 9 KOHM .25W 1 XF T/R R109 A10265-24921 24. 9 KOHM .25W 1 XF T/R R111 A10265-24921 24. 9 KOHM .25W 1 XF T/R R112 A10265-10031 100. KOHM .25W 1 MF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114	E 6
R22 A10256-1051 1.0 MOHM 25W 5 CF T/R R23 A10256-2051 2.0 MOHM 25W 5 CF T/R R24 A10256-1021 10 KOHM 25W 5% CF T/R R102 A10255-10221 10 KOHM 25W 1 MF T/R R101 A10255-10221 10 KOHM 25W 1 MF T/R R102 A10255-10221 10 KOHM 25W 1 MF T/R R102 A10255-10221 10 KOHM 25W 1 MF T/R R104 A10255-10221 10 KOHM 25W 1 MF T/R R104 A10255-10221 14 .980OHM 25W 1 MF T/R R107 125931-1 POT SKOHM 25W 1 MF T/R R107 125931-1 POT SKOHM 25W 1% MF T/R R107 125931-1 POT SKOHM 25W 1% MF T/R R107 A10255-1021 10.5KOHM	E 6
R23 A10256-2051 2.0 MOHM .25W 5% CF T/R R24 A10256-1031 10 KOHM .25W 1 MF T/R R102 A10255-10021 10 KOHM .25W 1 MF T/R R101 A10255-10021 10 KOHM .25W 1 MF T/R R102 A10255-10021 10 KOHM .25W 1 MF T/R R102 A10255-10021 10 KOHM .25W 1 MF T/R R102 A10255-10021 10 KOHM .25W 1 MF T/R R103 C 9079-2 200 OHM TOP ADJ CERMET TRIMMER R102 A10255-10021 NE NE R104 A10255-10021 10 KOHM .25W 1 MF T/R R10 A10255-24921 24.9 KOHM .25W 1% MF T/R R10 R102 A10255-24921 24.9 KOHM .25W 1% MF T/R R111 A10255-20911 4.98KOHM .25W 1% MF T/R R111 A10255-10931 100 KOHM .25W 1% MF T/R R111 A10255-1	<u>н 5</u>
R24 A10266-1031 10. KOHM .25W 5% CF T/R R25 A10265-10011 1.0 KOHM .25W 1 MF T/R R100 A10265-10021 10. KOHM .25W 1 MF T/R R111 A10265-10021 10. KOHM .25W 1 MF T/R R102 A10265-10021 10. KOHM .25W 1 MF T/R R103 C 9079-2 200.OHM TOP ADJ CERMET TRIMMER R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-49911 4.99KOHM .25W 1 MF T/R R106 A10265-19911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-24921 24.9 KOHM .25W 1 X MF T/R R110 A10265-69811 6.98 KOHM .25W 1 X MF T/R R111 A10265-24921 24.9 KOHM .25W 1 X MF T/R R111 A10265-24921 24.9 KOHM .25W 1 MF T/R R111 A10265-10031 108. KOHM .25W 1 MF T/R R111 A10265-1031 108. KOHM .25W 1 MF T/R R112 <td>Н 5</td>	Н 5
R125 A10265-10011 1.0 KOHM 25W 1 MF T/R R100 A10265-10021 10 KOHM 25W 1 MF T/R R101 A10265-10021 10 KOHM 25W 1 MF T/R R102 A10265-10021 10 KOHM 25W 1 MF T/R R105 A10265-10021 10 KOHM 25W 1 MF T/R R104 A10265-49911 4.99KOHM 25W 1 MF T/R R105 A10265-49911 4.99KOHM 25W 1 MF T/R R106 A10265-49911 4.99KOHM 25W 1 MF T/R R107 125931-1 POT SKOHM 25W 1% MF T/R R108 A10265-24921 24.9 KOHM 25W 1% MF T/R R110 A10265-24921 24.9 KOHM 25W 1% MF T/R R111 A10265-10921 100 KOHM 25W 1% MF T/R R111 A10265-10921 100 KOHM 25W 1%	I 6
R100 A10265-10021 10. KOHM.25W 1 MF T/R R101 A10265-10021 10. KOHM.25W 1 MF T/R R102 A10265-10021 10. KOHM.25W 1 MF T/R R103 C 9079-2 200.0HM TOP ADJ CERMET TRIMMER R R104 A10265-10021 10. KOHM.25W 1 MF T/R R105 A10265-10021 10. KOHM.25W 1 MF T/R R106 A10265-10021 10. KOHM.25W 1 MF T/R R106 A10265-10021 118. KOHM 25W 12. MF T/R R109 A10265-24921 24.9 KOHM 25W 12. MF T/R R110 A10265-24921 24.9 KOHM 25W 12. MF T/R R111 A10265-2001 22.0 OHM 25W 12. MF T/R R111 A10265-10721 10.7KOHM 25W 12. MF T/R R1114 A10265-10721 10.7KOHM 25W 12. MF T/R R1115 A10265-10721 10.7KOHM 25W 12. MF T/	I 6
R102 A10265-10021 10. KOHM .25W 1 MF T/R R103 C 9079-2 200.0HM TOP ADJ CERMET TRIMMER R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-49911 4.99KOHM .25W 1 MF T/R R106 A10265-49911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-24921 24.9 KOHM .25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 1% MF T/R R112 A10265-16031 150 KOHM .25W 1% MF T/R R113 A10265-16031 160 KOHM .25W 1% MF T/R R114 A10265-10031 100 KOHM .25W 1% MF T/R R115 A10265-10231 120 KOHM .25W 1% MF T/R R116 A10265-10231 100 KOHM .25W 1% MF T/R R117 A10265-10231 100 KOHM .25W 1% MF T/R R116 A10265-10231 120 KOHM .25W 5% CF T/R R117 A10265-12031 120 KOHM .25W 5% CF T/R R120 <	J 3
R102 A10265-10021 10. KOHM .25W 1 MF T/R R103 C 9079-2 200.0HM TOP ADJ CERMET TRIMMER R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-49911 4.99KOHM .25W 1 MF T/R R106 A10265-49911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. SKOHM 10% LIN 21 DNT R108 A10265-24921 24.9 KOHM .25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 1% MF T/R R111 A10265-16031 150 KOHM .25W 1% MF T/R R114 A10265-10031 160 KOHM .25W 1% MF T/R R115 A10265-10231 10.5KOHM .25W 1% MF T/R R116 A10265-10231 10.5KOHM .25W 1% MF T/R R117 A10265-10231 10.5KOHM .25W 5% CF T/R R118 A10265-1321 1.3 KOHM .25W 5% CF T/R R120 A10266-1321 12.KOHM .25W 5% CF T/R R12	 J 3
R103 C 9079-2 200.0HM TOP ADJ CERMET TRIMMER R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-10021 4.99KOHM .25W 1 MF T/R R106 A10265-49911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-24921 24.9 SOHM .25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1 MF T/R R111 A10265-49911 4.99KOHM .25W 1 MF T/R R111 A10265-10031 100. KOHM .25W 5 CF T/R R112 C 5215-6 22. MOHM .25W 5 CF T/R R112	J 3
R104 A10265-10021 10. KOHM .25W 1 MF T/R R105 A10265-49911 4.99KOHM .25W 1 MF T/R R106 A10265-49911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R112 A10265-10031 100. KOHM .25W 1 MF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1% MF T/R R117 R116 A10265-10031 100. KOHM .25W 1% MF T/R R117 R117 A10265-10031 100. KOHM .25W 1% MF T/R R117 R114 A10265-10031 100. KOHM .25W 1 MF T/R R117 A10265-10	I 2
R105 A10265-49911 4.99KDHM .25W 1 MF T/R R106 A10265-49911 4.99KDHM .25W 1 MF T/R R107 125931-1 POT. 5KDHM 10% LIN 21 DNT R108 A10265-11921 11.8 KOHM 0.25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 1% MF T/R R111 A10265-2011 22.0 OHM .25W 1% MF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1 MF T/R R116 A10265-10031 100. KOHM .25W 1 MF T/R R117 A10265-10031 100. KOHM .25W 1 MF T/R R118 A10265-10031 100. KOHM .25W 1 MF T/R R119 A10266-51031 100. KOHM .25W 5 CF T/R	 J 2
R106 A10265-49911 4.99KOHM .25W 1 MF T/R R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-11821 11.8 KOHM 0.25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1 MF T/R R111 A10265-10031 100. KOHM .25W 1 MF T/R R113 A10265-10031 100. KOHM .25W 1% MF T/R R114 A10265-10031 100. KOHM .25W 1% MF T/R R117 A10265-10031 100. KOHM .25W 1% MF T/R R118 A10265-10031 100. KOHM .25W 1% MF T/R R119 A10265-10031 100. KOHM .25W 1% MF T/R R120 A10265-10031 100. KOHM .25W 1% MF T/R R121 C 5215-6 22. MOHM .25W 1 MF T/R R122 A10266-1321 1.3 KOHM .25W 5% CF T/R	IЗ
R107 125931-1 POT. 5KOHM 10% LIN 21 DNT R108 A10265-11021 11.8 KOHM 0.25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 1 MF T/R R112 A10265-24921 22.0 OHM .25W 1 MF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1 MF T/R R116 A10265-10031 100. KOHM .25W 1 MF T/R R117 A10265-10521 10.5KOHM .25W 1 MF T/R R118 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10521 10.5KOHM .25W 1 MF T/R R120 A10266-10511 510.0HM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1231 12.KOHM .25W 5% CF T/R R123 A10266-1231 12.KOHM .25W 5% CF T/R R124 A10266-2721 2.7 KOHM .25W 5% CF T/R R125	I 3
R108 A10265-11821 11.8 KOHM 0.25W 1% MF T/R R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R111 A10265-24921 22.0 OHM .25W 5 CF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114 A10265-10021 10.7KOHM .25W 1% MF T/R R115 A10265-10021 10.7KOHM .25W 1% MF T/R R116 A10265-10021 10.7KOHM .25W 1% MF T/R R117 A10265-10021 10.7KOHM .25W 1% MF T/R R118 A10265-10021 10.7KOHM .25W 1 MF T/R R119 A10265-10021 10.7KOHM .25W 5 CF T/R R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1231 1.2.KOHM .25W 5 CF T/R R123 A10266-1231 1.2.KOHM .25W 5% CF T/R R124 A10266-2721 2.7 KOHM .25W 5% CF T/R R125 A10266-2721 2.7 KOHM .25W 5% CF T/R R126	J 2
R109 A10265-24921 24.9 KOHM .25W 1% MF T/R R110 A10265-69811 6.98 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R112 A10265-24921 22.0 OHM .25W 1 % MF T/R R113 A10265-24921 22.0 OHM .25W 1 MF T/R R114 A10265-49911 4.98KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1 MF T/R R116 A10265-10031 100. KOHM .25W 1 MF T/R R117 A10265-10031 100. KOHM .25W 1 MF T/R R118 A10265-10031 100. KOHM .25W 1 MF T/R R119 A10265-10031 100. KOHM .25W 1 MF T/R R119 A10266-1031 10.5KOHM .25W 5 CF T/R R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 X CF T/R R122 A10266-1231 12.KOHM .25W 5 X CF T/R R123 A10266-1231 12.KOHM .25W 5 X CF T/R R124 A10266-1231 12.KOHM .25W 5 X CF T/R R125 A10266-2721 2.7 KOHM .25W 5 X CF T/R R126	<u> </u>
R110 A10265-69811 6.98 KOHM .25W 1% MF T/R R111 A10265-24921 24.9 KOHM .25W 1% MF T/R R112 A10266-2201 22.0 OHM .25W 5 CF T/R R113 A10265-10031 100. KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1 MF T/R R116 A10265-100721 10.7KOHM .25W 1% MF T/R R117 A10265-100721 10.7KOHM .25W 1 MF T/R R118 A10265-100721 10.7KOHM .25W 1 MF T/R R119 A10265-10031 200. KOHM .25W 1 MF T/R R119 A10265-10031 100. KOHM .25W 1 MF T/R R119 A10265-10031 100. KOHM .25W 5 THICK FILM T/R R120 A10266-1321 1.3 KOHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10266-1321 1.2.KOHM .25W 5 CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-2721 2.7 KOHM .25W 5% CF T/R R126 A10266-6831 68. KOHM .25W 5% CF T/R R126 <td> </td>	
R1111 A10265-24921 24.9 KOHM .25W 1% MF T/R R112 A10265-2001 22.0 OHM .25W 5 CF T/R R113 A10265-49911 4.99KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-10031 100. KOHM .25W 1 MF T/R R116 A10265-10721 10.7KOHM .25W 1% MF T/R R117 A10265-10721 10.7KOHM .25W 1% MF T/R R118 A10265-10521 10.5KOHM .25W 1% MF T/R R119 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10521 10.5KOHM .25W 5 CF T/R R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1321 1.3 KOHM .25W 5% CF T/R R123 A10265-1231 12.KOHM .25W 5% CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-2721 2.7 KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130	I 1
R112 A10266-2201 22.0 OHM .25W 5 CF T/R R113 A10265-2001 4.99KOHM .25W 1 MF T/R R114 A10265-10031 100 KOHM .25W 1 MF T/R R115 A10265-10031 100 KOHM .25W 1 MF T/R R116 A10265-10031 100 KOHM .25W 1% MF T/R R117 A10265-10031 100 KOHM .25W 1% MF T/R R118 A10265-1021 10.7KOHM .25W 1% MF T/R R119 A10265-1031 100 KOHM .25W 1% MF T/R R119 A10265-1031 10.5KOHM .25W 1% MF T/R R R110 A10265-1031 10.5KOHM .25W 1 MF T/R R R120 A10266-1321 1.3 KOHM .25W 5 CF T/R R R121 C 5215-6 22 MOHM .25W 5 CF T/R R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R R123 A10266-1231 12.KOHM .25W 5% CF T/R R R124 A10266-2721 2.7 KOHM .25W 5% CF T/R R	<u>к 2</u>
R113 A10265-49911 4.99KOHM .25W 1 MF T/R R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-15031 150 KOHM .25W 1% MF T/R R116 A10265-1021 10.7KOHM .25W 1% MF T/R R R117 A10265-20031 200.KOHM .25W 1% MF T/R R R118 A10265-10221 10.5KOHM .25W 1 MF T/R R R119 A10265-10231 100.KOHM .25W 1 MF T/R R R119 A10265-10231 100.KOHM .25W 1 MF T/R R R120 A10266-51021 10.SKOHM .25W 5 CF T/R R R121 C 5215-6 22.MOHM .25W 5 CF T/R R R122 A10266-1321 1.3KOHM .25W 5% CF T/R R R123 A10266-1321 1.2.KOHM .25W 5% CF T/R R R124 A10266-1231 12.KOHM .25W 5% CF T/R R R125 A10266-2721 2.7KOHM .25W 5% CF T/R R R126 A10266-6831 68.KOHM .25W 5% CF T/R R R	<u> </u>
R114 A10265-10031 100. KOHM .25W 1 MF T/R R115 A10265-1031 150 KOHM .25 1% MF T/R R116 A10265-10721 10.7KOHM .25W 1% MF T/R R117 A10265-20031 200.KOHM .25W 1% MF T/R R118 A10265-10521 10.5KOHM .25W 1% MF T/R R119 A10265-10031 100.KOHM .25W 1 MF T/R R119 A10265-10031 100.KOHM .25W 1 MF T/R R120 A10266-10521 10.5KOHM .25W 1 MF T/R R121 C 5215-6 22.MOHM .25W 5 CF T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10266-1231 12.KOHM .25W 5% CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-6831 68.KOHM .25W 5% CF T/R </td <td>K 2</td>	K 2
R115 A10265-15031 150 KOHM .25 1% MF T/R R116 A10265-10721 10.7KOHM .25W 1% MF T/R R117 A10265-20031 200.KOHM .25W 1 MF T/R R118 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10031 100.KOHM .25W 1 MF T/R R119 A10266-5111 510.OHM .25W 5 CF T/R R120 A10266-5121 1.3 KOHM .25W 5 CF T/R R121 C S215-6 22.MOHM .25W 5 CF T/R R122 A10266-131 1.3 KOHM .25W 5 CF T/R R123 A10266-1231 12.KOHM .25W 5% CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R124 A10266-2721 2.7 KOHM .25W 5% CF T/R	K 2
R116 A10265-10721 10.7KOHM .25W 1% MF T/R R117 A10265-20031 200.KOHM .25W 1 MF T/R R118 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10031 100.KOHM .25W 1 MF T/R R119 A10266-10031 100.KOHM .25W 5 CF T/R R120 A10266-5111 510.OHM .25W 5 CF T/R R121 C 5215-6 22.MOHM .25W 5 THICK FILM T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10266-1231 12.KOHM .25W 5 CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5% CF T/R R128 A10266-6831 68.KOHM .25W 5% CF T/R R129 A10266-6831 68.KOHM .25W 5% CF T/R R130 A10266-4701 47.0 0HM .25W 5% CF T/R R131 A10266-4701 47.0 0HM .25W 5% CF T/R	<u> </u>
R117 A10265-20031 200.KOHM .25W 1 MF T/R R118 A10265-10521 10.5KOHM .25W 1 MF T/R R119 A10265-10031 100.KOHM .25W 1 MF T/R R119 A10265-10031 100.KOHM .25W 5 CF T/R R120 A10266-5111 510.OHM .25W 5 CF T/R R121 C 5215-6 22.MOHM .25W 5 CF T/R R122 A10266-1321 1.3KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 5 CF T/R R124 A10266-1321 12.KOHM .25W 5% CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-2721 2.7KOHM .25W 5% CF T/R R126 A10266-2721 2.7KOHM .25W 5% CF T/R R127 A10266-6831 68.KOHM .25W 5% CF T/R R128 A10266-6831 68.KOHM .25W 5% </td <td></td>	
R118 A10265-10521 10.5KOHM .25W 1% MF T/R R119 A10265-10031 100. KOHM .25W 1 MF T/R R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 5 CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5% CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10266-61031 100. KOHM .25W 5% CF T/R R131 A10266-10031 100. KOHM .25W 5% CF T/R R133 A10266-4701 47.0 OHM .25W 5% CF T/R R133 A10266-4701 47.0 OHM .25W 5% CF T/R R133 A10266-4701 47.0 OHM .25W 5% CF T/R R134 A10266-4701 47.0 OHM .25W 5% CF T/R R135 A1	
R119 A10265-10031 100. KOHM .25W 1 MF T/R R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 CF T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 5 CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5% CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10266-10031 100. KOHM .25W 5% CF T/R R131 A10266-10031 100. KOHM .25W 5 CF T/R R132 A10266-4701 47.0 0HM .25W 5 CF T/R R133 A10266-4701 47.0 0HM .25W 5 CF T/R R134 A10266-2201	<u>I 3</u>
R120 A10266-5111 510. OHM .25W 5 CF T/R R121 C 5215-6 22. MOHM .25W 5 THICK FILM T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 5% CF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5% CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10266-6831 68. KOHM .25W 5% CF T/R R131 A10266-6831 68. KOHM .25W 5% CF T/R R132 A10266-6431 100. KOHM .25W 5% CF T/R R131 A10266-10031 100. KOHM .25W 5% CF T/R R132 A10266-4701 47.0 OHM .25W 5% CF T/R R133 A10266-4701 47.0 OHM .25W 5% CF T/R R133 A10266-2201 22.0 OHM .25W 5% CF T/R R134 A10266-2201 22.0 OHM .25W 5% CF T/R R135 A10266-8211 820. OHM .25W 5% CF T/R R136	<u>I 3</u>
R121 C 5215-6 22. MOHM .25W 5 THICK FILM T/R R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 1 MF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-2721 2.7 KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5% CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10266-6831 68. KOHM .25W 5% CF T/R R131 A10266-6831 68. KOHM .25W 5% CF T/R R132 A10266-6831 68. KOHM .25W 1 MF T/R R131 A10266-10031 100. KOHM .25W 1 MF T/R R132 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-2201 22.0 OHM .25W 5% CF T/R 1 R134 A10266-8211 820. OHM .25W 5% CF T/R 1 R135 A10266-8211 820. OHM .25W 5% CF T/R 1 R136 A10266-8211 <	<u>K 2</u>
R122 A10266-1321 1.3 KOHM .25W 5 CF T/R R123 A10265-49911 4.99KOHM .25W 1 MF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5% CF T/R R127 A10266-2721 2.7 KOHM .25W 5 CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10265-10031 100. KOHM .25W 1 MF T/R R131 A10266-4701 47.0 OHM .25W 5 CF T/R R132 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5% CF T/R R134 A10266-4701 47.0 OHM .25W 5% CF T/R R135 A10266-2201 22.0 OHM .25W 5% CF T/R R136 A10266-8211 820. OHM .25W 5% CF T/R R137 A10266-8211 820. OHM .25W 5% CF T/R R138 A10266-201 22.0 OHM .25W 5% CF T/R R139 A10266-5601 56.0 OHM .25W 5% CF T/R	<u>K 2</u>
R123 A10265-49911 4.99KOHM .25W 1 MF T/R R124 A10266-1231 12.KOHM .25W 5% CF T/R R125 A10266-1231 12.KOHM .25W 5% CF T/R R126 A10266-2721 2.7 KOHM .25W 5 CF T/R R127 A10266-2721 2.7 KOHM .25W 5 CF T/R R128 A10266-6831 68. KOHM .25W 5% CF T/R R R129 A10266-6831 68. KOHM .25W 5% CF T/R R R130 A10265-10031 100. KOHM .25W 1 MF T/R R131 A10265-10031 100. KOHM .25W 1 MF T/R R132 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5 CF T/R R134 A10266-4701 47.0 OHM .25W 5% CF T/R R R135 A10266-2201 22.0 OHM .25W 5% CF T/R R R136 A10266-8211 820. OHM .25W 5% CF T/R R R137 A10266-8211 820. OHM .25W 5% CF T/R R R138 A10266-5601 56.0 OHM .25W 5% CF T/R R	К 2
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R128 A10266-6831 68. KOHM .25W 5% CF T/R R129 A10266-6831 68. KOHM .25W 5% CF T/R R130 A10265-10031 100. KOHM .25W 1 MF T/R R131 A10265-10031 100. KOHM .25W 1 MF T/R R132 A10266-4701 47.0 OHM .25W 5 CF T/R R133 A10266-4701 47.0 OHM .25W 5 CF T/R R134 A10266-4701 47.0 OHM .25W 5% CF T/R R135 A10266-2201 22.0 OHM .25W 5% CF T/R R136 A10266-2201 22.0 OHM .25W 5% CF T/R R137 A10266-8211 820. OHM .25W 5% CF T/R R138 A10266-2201 22.0 OHM .25W 5% CF T/R R139 A10266-5601 56.0 OHM .25W 5% CF T/R	L 3
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R135 A10266-2201 22.0 OHM 25W 5 CF T/R R136 A10266-8211 820 OHM 25W 5% CF T/R Image: CF T/R R137 A10266-8211 820 OHM 25W 5% CF T/R Image: CF T/R R138 A10266-2201 22.0 OHM 25W 5% CF T/R Image: CF T/R R139 A10266-5601 56.0 OHM 25W 5% CF T/R Image: CF T/R	L 2
R136 A10266-8211 B20. OHM .25W 5% CF T/R R137 A10266-8211 B20. OHM .25W 5% CF T/R R138 A10266-2201 22.0 OHM .25W 5% CF T/R R139 A10266-5601 56.0 OHM .25W 5% CF T/R	М З
R137 A10266-8211 B20. OHM . 25W 5% CF T/R R138 A10266-2201 22.0 OHM . 25W 5 CF T/R R139 A10266-5601 56.0 OHM . 25W 5% CF T/R Image: CF T/R	В
R138 A10266-2201 22.0 OHM 25W 5 CF T/R R139 A10266-5601 56.0 OHM 25W 5% CF T/R	МЗ
R139 A10266-5601 56.0 OHM .25W 5% CF T/R	M 2
	M 2
R140 A10266-4721 4.7 KOHM .25W 5% CF T/R	М 2
	P 5
INACTIVE	
For Reference Use Only , CROWN INTERNATIONAL	INC
TTIB WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHON	(219) 294-0 14 DF 22

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
R142		665. OHM .25W 1 MF T/R	05
R143	A10265-27401	274. OHM .25W 1% MF T/R	P 5
R144	A10265-27401	274. OHM .25W 1% MF T/R	05
R145	A10265-66501	665. OHM .25W 1 MF T/R	05
R146	A10265-66501	665 OHM 0.25W 1% MF T/R	05
R147	A10265-66501	665 OHM 0.25W 1% MF T/R	05
R148	A10266-1041	100. KOHM .25W 5% CF25 T/R	P 5
R149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
R150	A10265-35711	3.57KOHM .25W 1 MF T/R	05
R151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
R152	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	K 4
R153	A10266-1031	10. KOHM .25W 5% CF T/R	К 4
R154	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
R155	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	КЗ
R156	A10266-1031	10. KOHM .25W 5% CF T/R	КЗ
R157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЭ
R158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
R159	A10265-10011	1.0 KOHM .25W 1 MF T/R	КЗ
R160	A10265-10021		ΓL
R161	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
R162	A1026 <u>6-4721</u>	4.7 KOHM .25W 5% CF T/R	L J
R163	A10265-10021	10. KOHM .25W 1 MF T/R	L J
R164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
R165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
R166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
R169		274.KOHM .25W 1% MF T/R	J 2
R170		9.53KOHM .25W 1% MF T/R	J 2
R171	A10266-5621	5.6 KOHM .25W 5% CF T/R	P 3
R172	A10266-1541	150. KOHM . 25W 5% CF T/R	03
R173	A10265-17821	17.8KOHM .25W 1% MF T/R	03
R174	A10265-24921	24.9 KOHM .25W 1% MF T/R	03
R175	A10265-49911 A10265-68111	4.99KOHM .25W 1 MF T/R	03
R176	A10265-33221	6.81KOHM .25W 1% MF T/R 33.2KOHM .25W 1% MF T/R	03
R177	A10265-33221		
R178 R179	A10265-20011	10. KOHM .25W 1 MF T/R 2.0 KOHM .25W 1% MF T/R	
R180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R181	A10265-20011	100. OHM .25W 1 MF T/R	
R182	A10205-10001	51.1 KOHM . 25W 1% MF T/R	0 2
R183	A10265-68111	6.81KOHM .25W 1% MF T/R	
R184	A10265-10001	100. OHM .25W 1 MF T/R	0 2
R185	A10266-2741	270. KOHM . 25W 5% CF25 T/R	0 2
R186	C 5062-2	100KOHM LINEAR TRIMPOT	0 2
R187	A10265-14321	14.3 KOHM 0.25W 1% MF T/R	0 4
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		CROWN INTERNATION	PHONE (219) 294-

189 A1 190 A1 191 A1 192 A1 193 A1 195 A1 196 A1 197 A1 198 A1 200 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 210 A1	0265-32421 0265-19121 0265-33221 0265-20011 0265-20011 0265-20011 0265-68111 0265-68111 0265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821 10265-24921	51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 200. OHM TOP ADJ CERMET TRIMMER	0 4 0 4 P 3 P 3 P 3 P 3 P 4 P 3 P 4 P 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 3 G 3 G 3 G 3 G 3 G 3 H 3 H 3 H 3 F 2
189 A1 190 A1 191 A1 192 A1 193 A1 195 A1 196 A1 197 A1 198 A1 200 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 210 A1	0265-19121 0265-33221 0265-20011 0265-20011 0265-20011 0265-68111 0265-68111 10265-68111 10265-68111 10265-68111 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821 10265-24921	19.1K OHM 0.25W 1% MF T/R 33.2KOHM .25W 1% MF T/R 10. KOHM .25W 1 MF T/R 2.0 KOHM .25W 1% MF T/R 2.0 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 100. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	P 3 P 3 P 3 P 4 P 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 G 3 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3
A190 A1 A191 A1 A192 A1 A193 A1 A193 A1 A193 A1 A193 A1 A193 A1 A195 A1 A195 A1 A195 A1 A196 A1 A197 A1 A198 A1 A200 A1 A201 A1 A202 A1 A203 C A204 A1 A205 A1 A206 A1 A207 12 A208 A1 A209 A1	0265-33221 0265-10021 0265-20011 0265-20011 0265-68111 0265-68111 0265-51121 0265-68111 0265-68111 0265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821	33.2KOHM .25W 1% MF T/R 10. KOHM .25W 1 MF T/R 2.0 KOHM .25W 1% MF T/R 2.0 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 100. OHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	P 3 P 3 P 4 P 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 G 3 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3
191 A1 192 A1 193 A1 193 A1 193 A1 193 A1 193 A1 195 A1 195 A1 196 A1 197 A1 198 A1 199 A1 200 A1 201 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 209 A1	0265-10021 0265-20011 0265-20011 0265-68111 0265-51121 0265-51121 0265-68111 0265-68111 0265-10001 0265-10021 0265-10021 0265-10021 0265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821	10. KOHM .25W 1 MF T/R 2.0 KOHM .25W 1% MF T/R 2.0 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 100. OHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 100. OHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	P 3 P 4 P 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 3 G 3 G 3 G 3 H 1 G 2 H 3
192 A1 193 A1 193 A1 194 A1 195 A1 196 A1 197 A1 198 A1 199 A1 199 A1 200 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 209 A1	10265-20011 10265-68111 10265-51121 10265-68111 10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821 10265-24921	2.0 KOHM .25W 1% MF T/R 2.0 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 100. OHM .25W 1% MF T/R 270. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 4 P 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 G 3 G 3 G 3 H 1 G 2 H 3 H 3
A193 A1 A194 A1 A195 A1 A195 A1 A196 A1 A197 A1 A198 A1 A199 A1 A198 A1 A199 A1 A200 A1 A202 A1 A203 C A204 A1 A205 A1 A206 A1 A208 A1 A209 A1 A209 A1	10265-20011 10265-68111 10265-51121 10265-68111 10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821 10265-24921	2.0 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 3 P 2 P 2 P 2 P 2 P 2 P 2 G 3 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3 H 3
194 A1 195 A1 196 A1 197 A1 198 A1 199 A1 199 A1 200 A1 201 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1	10265-68111 10265-10001 10265-68111 10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-11821 10265-24921	6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 2 P 2 P 2 P 2 P 2 P 2 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3
1196 A1 1197 A1 1198 A1 1198 A1 1200 A1 1201 A1 1202 A1 1203 C 1203 C 1204 A1 1205 A1 1206 A1 1207 12 1208 A1 1209 A1 1208 A1 1209 A1	10265-51121 10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821	51.1 KOHM .25W 1% MF T/R 6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 2 P 2 P 2 P 2 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3
197 A1 198 A1 199 A1 199 A1 200 A1 201 A1 202 A1 203 C 204 A1 205 A1 206 A1 208 A1 209 A1 208 A1 209 A1 210 A1	10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-11821 10265-11821	6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 2 P 2 P 2 G 3 G 3 G 3 G 3 H 1 G 2 H 3 H 3
197 A1 198 A1 199 A1 199 A1 200 A1 201 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1	10265-68111 10265-10001 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-49911 10265-49911 10265-11821 10265-11821	6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R 270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 2 P 2 G 3 G 3 G 3 H 1 G 2 H 3 H 3
199 A1 1200 A1 1201 A1 1202 A1 1203 C 1203 C 1204 A1 1205 A1 1206 A1 1207 12 1208 A1 1209 A1 1210 A1	10266-2741 10265-10021 10265-10021 10265-10021 9079-2 10265-10021 10265-49911 10265-49911 10265-49911 10265-11821 10265-24921	270. KOHM .25W 5% CF25 T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	P 2 G 3 G 3 G 3 H 1 G 2 H 3 H 3
200 A1 201 A1 202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1	10265-10021 10265-10021 10265-10021 9079-2 10265-10021 10265-49911 10265-49911 25931-1 10265-11821 10265-24921	10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	G 3 G 3 G 3 H 1 G 2 H 3 H 3
R201 A1 R202 A1 R203 C R204 A1 R205 A1 R206 A1 R206 A1 R206 A1 R207 12 R208 A1 R209 A1 R209 A1	10265-10021 10265-10021 9079-2 10265-10021 10265-49911 10265-49911 25931-1 10265-11821 10265-24921	10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	G 3 G 3 H 1 G 2 H 3 H 3
202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 207 12 208 A1 209 A1 209 A1	10265-10021 9079-2 10265-10021 10265-49911 10265-49911 25931-1 10265-11821 10265-24921	10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	G 3 H 1 G 2 H 3 H 3
202 A1 203 C 204 A1 205 A1 206 A1 207 12 208 A1 209 A1 207 12 208 A1 209 A1 209 A1	10265-10021 9079-2 10265-10021 10265-49911 10265-49911 25931-1 10265-11821 10265-24921	10. KOHM .25W 1 MF T/R 200.OHM TOP ADJ CERMET TRIMMER 10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	H 1 G 2 H 3 H 3
1204 A1 1205 A1 1206 A1 1207 12 1208 A1 1209 A1 1208 A1 1208 A1 1208 A1 1209 A1 1210 A1	10265-10021 10265-49911 10265-49911 25931-1 10265-11821 10265-24921	10. KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	G 2 H 3 H 3
R205 A1 R206 A1 R207 12 R208 A1 R209 A1 R209 A1	10265-49911 10265-49911 25931-1 10265-11821 10265-24921	4.99KOHM .25W 1 MF T/R 4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	Н З Н З
2206 A1 2207 12 2208 A1 2209 A1 2210 A1	10265-49911 25931-1 10265-11821 10265-24921	4.99KOHM .25W 1 MF T/R POT, 5KOHM 10% LIN 21 DNT	НЗ
2206 A1 2207 12 2208 A1 2209 A1 2210 A1	25931-1 10265-11821 10265-24921	POT, 5KOHM 10% LIN 21 DNT	
A208 A1 A209 A1 A210 A1	10265-11821 10265-24921		F 2
A1 A1 A1	10265-24921	11.8K OHM 0.25W 1% MF T/R	
R210 A1			H 1
		24.9 KOHM .25W 1% MF T/R	H 1
	10265-69811	6.98 KOHM .25W 1% MF T/R	H 1
R211 A1	10265-24921	24.9 KOHM .25W 1% MF T/R	F 2
R212 A1	10266-2201	22.0 OHM .25W 5 CF T/R	G 2
R213 A1	10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R214 A1	10265-10031	100. KOHM .25W 1 MF T/R	F 2
R215 A1	10265-15031	150 KOHM . 25 1% MF T/R	G 4
R216 A1	10265-10721	10.7KOHM .25W 1% MF T/R	H 4
R217 A1	10265-20031	200.KOHM .25W 1 MF T/R	НЗ
		10.5KOHM .25W 1% MF T/R	НЗ
R219 A1	10265-10031	100. KOHM .25W 1 MF T/R	F 2
R220 A1	10266-5111	510. OHM .25W 5 CF T/R	F 2
R221 C	5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
R222 A1	10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
R223 A1	10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R224 A1	10266-1231	12.KOHM .25W 5% CF T/R	Е З
R225 A1	10266-1231	12.KOHM .25W 5% CF T/R	E 2
R226 A1	10266-2721	2.7 KOHM .25W 5 CF T/R	EЗ
R227 A1	10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
R228 A1	10266-6831	68. KOHM .25W 5% CF T/R	Е З
R229 A1	10266-6831	68. KOHM .25W 5% CF T/R	Е З
R230 A1	10265-10031	100. KOHM .25W 1 MF T/R	Е З
R231 A1	10265-10031	100. KOHM .25W 1 MF T/R	E 2
R232 A1	10266-4701	47.0 OHM .25W 5 CF T/R	E 4
R233 A1	10266-4701	47.0 OHM .25W 5 CF T/R	E 2
R234 A1	10266-4711	470. OHM .25W 5% CF T/R	DЭ
IN	IACTIVE		
	SPECIFICATIONS ARE NTERNATIONAL, INC. DUCED, COPIED, OR L MANUFACTURE OR S ICES WITHOUT PERMI	CROWN INTERNATION	PHONE (219) 294

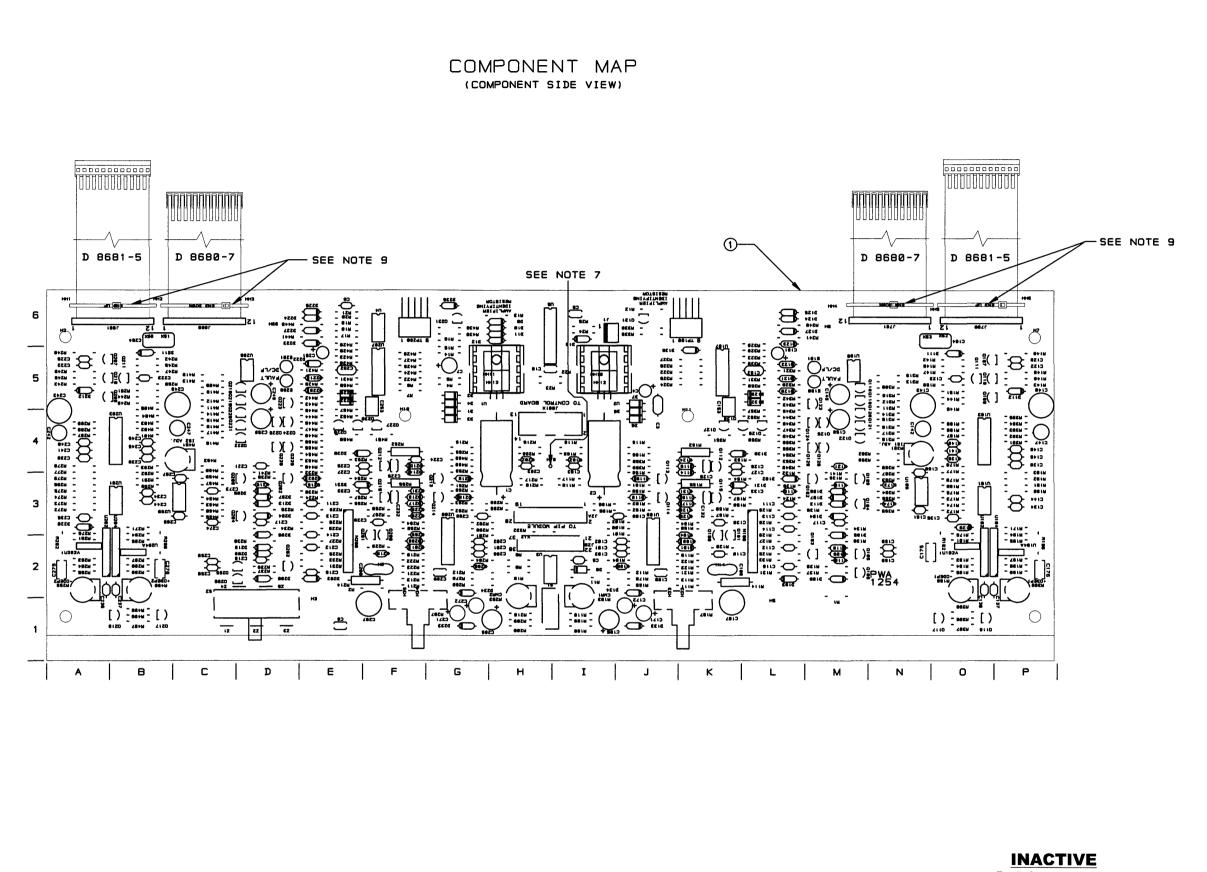
REE DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R235	A10266-2201	22.0 OHM .25W 5 CF T/R	D 3
R235	A10266-8211	820. OHM . 25W 5% CF T/R	D 3
R230	A10266-8211	820. OHM . 25W 5% CF T/R	D 2
R238	A10266-2201	22.0 OHM . 25W 5 CF T/R	D 2
R239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
R240	A10266-4721	4.7 KOHM . 25W 5% CF T/R	A 5
R241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
R242	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R243	A10265-27401	274. OHM .25W 1% MF T/R	A 5
R244	A10265-27401	274. OHM .25W 1% MF T/R	85
R245	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R246	A10265-66501	665 OHM 0.25W 1% MF T/R	85
R247	A10265-66501	665 OHM 0.25W 1% MF T/R	85
R248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
R249		3.57KOHM .25W 1 MF T/R	A 5
R250		3.57KOHM .25W 1 MF T/R	B 5
R251	A10266-1041	100. KOHM .25W 5% CF25 T/R	В 5
R251	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	F 4
R252	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R254	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 3
	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	F 3
R255	A10266-1031	10. KOHM .25W 5% CF T/R	E 3
R256	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 3
R257	A10266-3021	3.0 KOHM .25W 5 CF T/R	<u> </u>
R258		1.0 KOHM .25W 1 MF T/R	F 3
R259	A10265-10011	10. KOHM . 25W 1 MF T/R	G 3
R260 R261	A10265-10021	4.7 KOHM . 25W 5% CF T/R	G 3
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R263	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 3
R265	A10265-27431		G 4
R266	A10265-95311		<u>H</u> 4
R267	A10265-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
R270	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
R270	A10265-5621	5.6 KOHM .25W 5% CF T/R	B 3
R272	A10266-1541	150. KOHM . 25W 5% CF T/R	A 3
R272	A10265-17821	17.8KOHM .25W 1% MF T/R	<u> </u>
R274	A10265-24921	24.9 KOHM . 25W 1% MF T/R	A 3
R274	A10265-49911	4.99KOHM .25W 1 MF T/R	A 3
R276	A10265-68111	6.81KOHM .25W 1% MF T/R	A 3
R276	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
R278	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
R278	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
R280	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
R280	A10265-10001	100. OHM .25W 1 MF T/R	A 2
11201	1710203 10001	100. OTIM 120W 1 WE 1711	
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E DRAWINGS	AND SPECIFICATIONS AF WAN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR R DEVICES WITHOUT PERN	THE THE DRAWN JAW 03/30/98 DWG. NO.	PHONE (219) 294- SHEET 17 OF 22

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R282	A10265-51121	51.1 KOHM .25W 1% MF T/R	A 2
R283	A10265-68111	6.81KOHM .25W 1% MF T/R	A 2
R284	A10265-10001		A 2
R285	A10266-2741	270. KOHM . 25W 5% CF25 T/R	A 2
R286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
R287	A10265-14321	14.3K OHM 0.25W 1% MF T/R	A 4
R288	A10265-32421	32.4K OHM 0.25W 1% MF T/R	A 4
R289	A10265-19121	19.1K OHM 0.25W 1% MF T/R	A 4
R290	A10265-33221	33.2KOHM .25W 1% MF T/R	В 3
R291	A10265-10021	10. KOHM .25W 1 MF T/R	83
R292	A10265-20011	2.0 KOHM .25W 1% MF T/R	B 4
R293	A10265-20011	2.0 KOHM .25W 1% MF T/R	B 4
R294	A10265-68111	6.81KOHM .25W 1% MF T/R	В 3
R295	A10265-10001	100. OHM .25W 1 MF T/R	В 2
R296	A10265-51121	51.1 KOHM .25W 1% MF T/R	B 2
R297	A10265-68111	6.81KOHM .25W 1% MF T/R	B 2
R298	A10265-10001	100. OHM .25W 1 MF T/R	B 2
R299	A10266-2741	270. KOHM . 25W 5% CF25 T/R	B 2
R300	C 5062-2	100KOHM LINEAR TRIMPOT	P 2
R301	A10265-14321	14.3K OHM 0.25W 1% MF T/R	P 4
R302	A10265-32421	32.4K OHM 0.25W 1% MF T/R	P 4
R303	A10265-19121	19.1K OHM 0.25W 1% MF T/R	P 4
R304	A10265-39221	39.2KOHM .25W 1% MF T/R	P 4
R305	A10265-35731	357.KOHM .25W 1 MF T/R	P 4
R306	A10266-3021	3.0 KOHM .25W 5 CF T/R	0 1
R307	A10266-1521	1.5 KOHM .25W 5% CF T/R	O 1
R308	A10266-1041	100. KOHM . 25W 5% CF25 T/R	0 1
7309 	C 7779-9	22. OHM . 25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
7311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
7312	<u>C 7779-9</u>	22. OHM .25W 5% FU/FP T/R	N 5
313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	<u>C 7779-9</u>	22. OHM .25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
7316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
7317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
7318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
7319	A10266-2731	27. KOHM .25W 5 CF T/R	N 5
7320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
7321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
322	A10266-2051	2.0 MOHM . 25W 5 CF T/R	К 5
323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
7324	A10266-4711	470. OHM . 25W 5% CF T/R	К 5
7325	A10266-1041	100. KOHM . 25W 5% CF25 T/R	<u> </u>
326	A10266-5121	5.1 KOHM . 25W 5 CF T/R	К 5
327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
328	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
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REF DES		PARTS LIST DESCRIPTION	MAP LOC.
		51.1 KOHM .25W 1% MF T/R	
R329		470. KOHM .25W 5% CF T/R	
R330	A10266-4741 A10266-2751	2.7 MOHM . 25W 5% CF T/R	
R331	A10265-10001	100 OHM 0.25W 1% MF T/R	
R332 R338	A10265-10001	100. KOHM .25W 5% CF25 T/R	J 6
R338	A10266-4731	47. KOHM . 25W 5% CF25 T/R	J 6
R340	A10266-5121	5.1 KOHM .25W 5 CF T/R	L 6
R340	A10266-1531	15. KOHM .25W 5% CF T/R	
R342	A10266-3921	3.9 KOHM . 25W 5% CF T/R	L 5
R343	A10200-3321	10. KOHM . 25W 5% CF T/R	L 5
R344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R344	A10266-1031	10. KOHM .25W 5% CF T/R	
	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R346	A10266-1031	10. KOHM .25W 5% CF T/R	
R347		10. KOHM . 25W 5% CF T/R	
R348	A10266-1031		
R349	A10266-1031		<u> </u>
R350	A10266-4701		<u> </u>
R351	A10266-2031		
R352	A10266-1031	10. KOHM . 25W 5% CF T/R	
R353	A10266-4731	47. KOHM .25W 5% CF25 T/R	
R354	A10266-4731	47. KOHM . 25W 5% CF25 T/R	<u> </u>
R355	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
R356	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
R357	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
R358	A10266-2031	20. KOHM .25W 5 CF T/R	L 4
R359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R360	A10266-1211	120. OHM .25W 5 CF T/R	N 4
R361	C 6048-0	500 OHM PIHER TRIM	N 4
R362		10.0 OHM .25W 1 MF T/R	N 4
R363	A10265-10211	1.02K OHM 0.25W 1% MF T/R	N З
R364	A10265-18221	18.2K OHM 0.25W 1% MF T/R	N Э
R365		1.02K OHM 0.25W 1% MF T/R	N 3
R366	A10265-18221		N 3
R367	A10265-10R01	10 OHM 0.25W 1% MF T/R	N 3
R368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R369	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R400	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
R401	A10265-14321	14.3K_OHM 0.25W 1% MF T/R	B 4
R402	A10265-32421	32.4K OHM 0.25W 1% MF T/R	B 4
R403	A10265-19121	19.1K OHM 0.25W 1% MF T/R	B 4
R404	A10265-39221	39.2KOHM .25W 1% MF T/R	B 4
R405	A10265-35731	357.KOHM .25W 1 MF T/R	В 5
R406	A10266-3021	3.0 KOHM .25W 5 CF T/R	B 1
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	B 1
R408	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 1
R409	C 7779-9	22. OHM .25W 5% FU/FP T/R	С 5
R410	A10266-4711	470. OHM .25W 5% CF T/R	C 5
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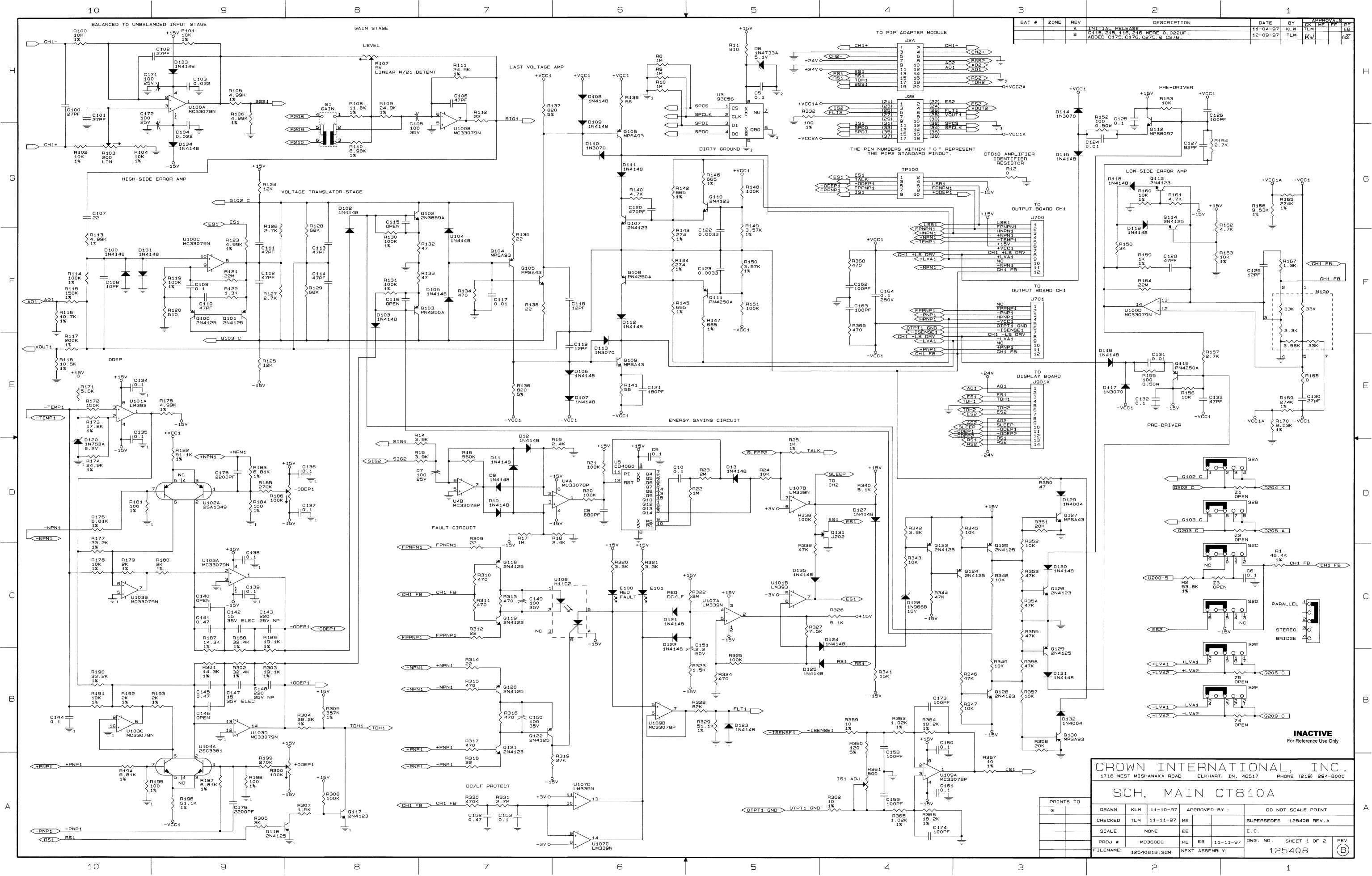
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R411	A10266-4711	470. OHM .25W 5% CF T/R	С 5
R412	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
R413	A10266-4711	470. OHM .25W 5% CF T/R	С 5
R414	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
R415	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R416	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R417	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R418	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
R419	A10266-2731	27. KOHM .25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM .25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM .25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM .25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-1531	15. KOHM .25W 5% CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R458	A10266-2031	20. KOHM . 25W 5 CF T/R	E 4
R459	A10265-10R01	10.0 OHM .25W 1 MF T/R	СЗ
R460	A10266-1211	120. OHM .25W 5 CF T/R	СЗ
R461	C 6048-0	500 OHM PIHER TRIM	
R462	A10265-10R01	10.0 OHM .25W 1 MF T/R	
R463	A10265-10211	1.02K OHM 0.25W 1% MF T/R	СЗ
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		L	J
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	AND SPECIFICATIONS AR MN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

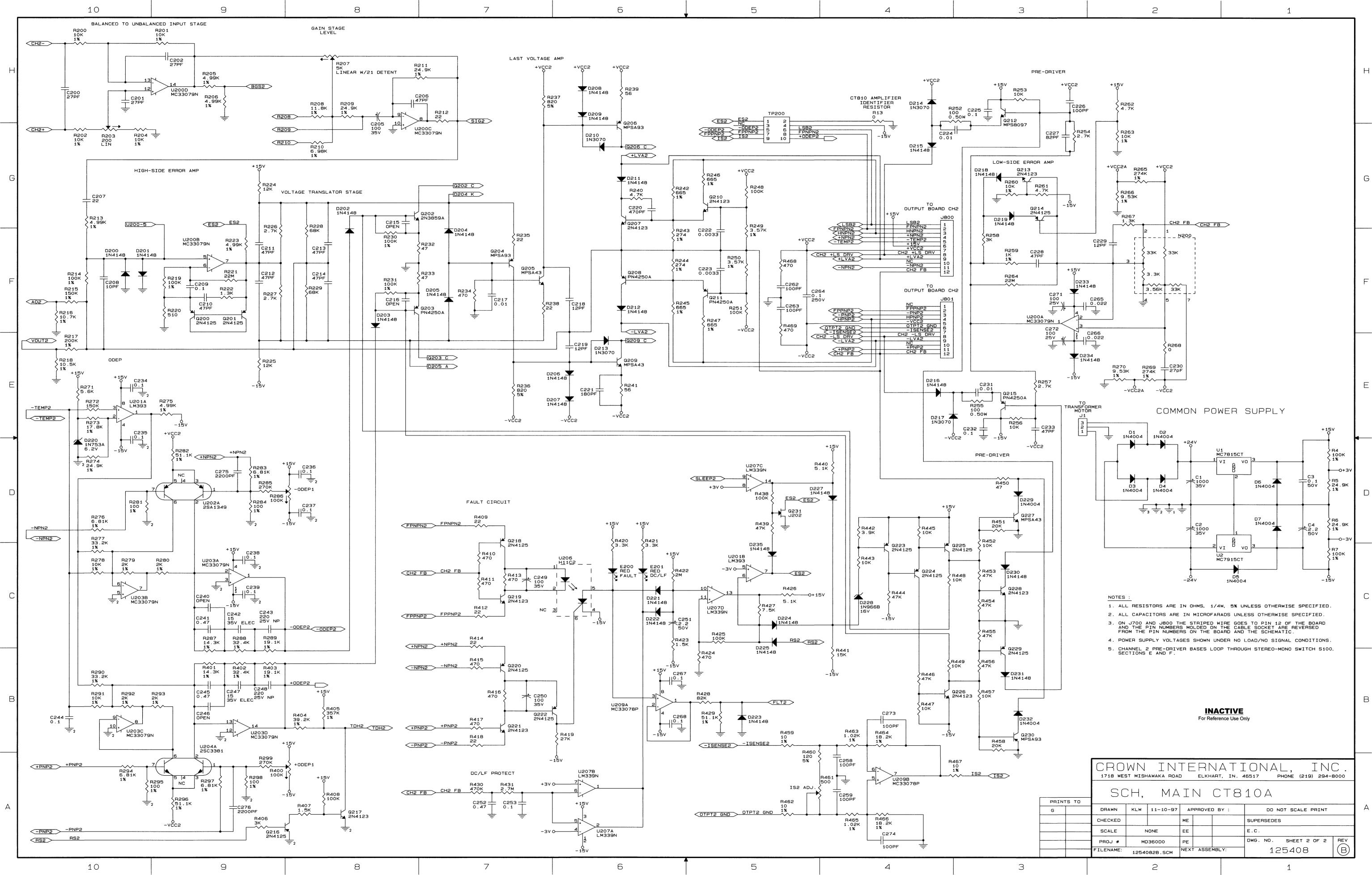
	C.P.N.	PARTS LIST	MAP LOC.
		18.2K OHM Ø.25W 1% MF T/R	С 3
7464		1.02K OHM 0.25W 1% MF T/R	С З
<u>1465</u>		18.2K OHM Ø.25W 1% MF T/R	С 3
7466		10 OHM 0.25W 1% MF T/R	СЗ
7467	A10265-10R01		<u>G 4</u>
7468	A10266-4711	470. OHM .25W 5% CF T/R	<u>G</u> 4
7469	A10266-4711	470. OHM .25W 5% CF T/R	
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	
52	C 6781-6	6P3T MONO/STEREO SWITCH	
TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	К 6
FP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F6
J1	C 5095-2	MC7815CT +15V. REG	H 5
J1X	C 9494-3	HEATSINK, TØ220 PLUG IN	<u>H 5</u>
J2	C 5096-0	MC7915CT -15V. REG	I 5
J2X	C 9494-3	HEATSINK, TØ220 PLUG IN	<u> </u>
13		INSTALLED ON NEXT ASSEMBLY	H 2
ЦЗХ	C 3451-9	IC SOCKET, 8PIN DIP 2-640463-3	H 2
_ 4	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	F 6
J5	102754-1	CD4060 14 STAGE BIN CNTR/OSC	Нб
J100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J 3
J101	C 7444-0	LM393 DUAL COMPARATOR	03
J102A	101374-1	2SA1349 DUAL PNP 80V SIP	0 2
J103	101651-1	MC33079N QUAD OP AMP SGS ONLY	04
J104A	101375-1	2SC3381 DUAL NPN 80V SIP	P 2
106	C 6411-0	H11C2 OPTO SCR	M 5
U107	C 4345-2	LM339N VOLT COMPARATOR	К 5
J109	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В И
1200	101651-1	MC33079N QUAD OP AMP SGS ONLY	G 3
1201	C 7444-0	LM393 DUAL COMPARATOR	А З
U202A	101374-1	2SA1349 DUAL PNP 80V SIP	A 2
U203	101651-1	MC33079N QUAD OP AMP SGS ONLY	A 4
U204A	101375-1	2SC3381 DUAL NPN BØV SIP	В 2
U206	C 6411-0	H11C2 OPTO SCR	D 5
U207	C 4345-2	LM339N VOLT COMPARATOR	F 5
U209	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В 3
U102		OPEN	0 2
U102		OPEN	P 2
U202	+	OPEN	A 2
U202 U204		OPEN	B 2
<u>uz04</u> Z1		OPEN	<u> </u>
		OPEN	D 1
Z2		OPEN	D 1
Z3		OPEN	
Z4			<u>D 2</u>
Z5		OPEN	<u> </u>
		<u> </u>	
	INACTIVE		
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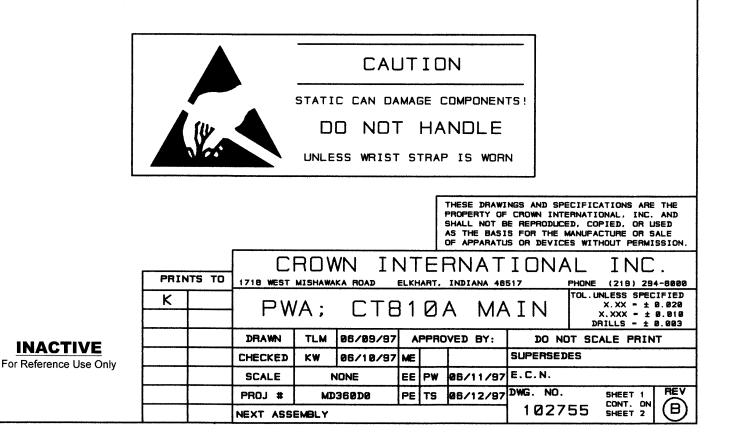
CT810A Main Module 102755 Information On Following Pages Documentation, Component Map, Schematic

E.C.N.	ZONE	REV.	DESCRIPTION	DATE	BY		DVAL	
		•	INITIAL RELEASE	06/09/97			 PW	
		B	CHG. WATT. ON R327,R427 FROM 1W TO .25W.	08/04/97	DWW	ilm		B

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102768.
- 2. PWB PART NUMBER 102756-1.
- 3. PWA PART NUMBER 102755-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- 8. INSTALL HEATSINK (C 8484-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 0812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. U102, U104, U202 AND U204 ARE ALTERNATE COMPONENT PARTS.
- 11. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



	PARTS LIS	бт	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10001	100. OHM .25W 1 MF T/R	8	R181, R184, R195, R198, R281,
			R284,R295,R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467,
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100.R101.R102.R104.R160.
			R163, R178, R191, R200, R201,
,			R202,R204,R260,R263,R278,
			R291
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219, R230, R231, R4, R7
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359, R362, R459, R462
A10265-11821	11.8 KOHM .25W 1% MF T/R	2	R108, R208
A10265-14321	14.3 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
			R280, R292, R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
			R274,R5,R6
A10265-27401	274. OHM . 25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-32421	32.4KOHM .25 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305, R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304, R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM . 25W 1 MF T/R	8	R142, R145, R146, R147, R242,
			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
			R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-95311	9.53KOHM . 25W 1% MF T/R	4	R166, R170, R266, R270
A10266-1031	10. KOHM .25W 5% CF T/R	19	R153, R156, R24, R253, R256,
			R343, R345, R347, R348, R349,
			R352, R357, R443, R445, R447,
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E DRAWINGS AND SPECIF		······	LKHART, INDIANA 46517 PHONE (219) 294-8 DWG. NO. SHEET 2
ERIY OF CROWN INTERNA	TIONAL, INC. AND DRAWN TLM 06-		DWG. NO. SHEET 2

	PARTS LIS	Т	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
			R448, R449, R452, R457
A10266-1041	100. KOHM .25W 5% CF25 T/R	12	R148, R151, R20, R21, R248,
			R251,R308,R325,R338,R408,
•			R425, R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10, R17, R22, R8, R9
A10266-1211	120. OHM .25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307, R323, R407, R423
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	6	R341,R351,R358,R441,R451,
			R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	З	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227,R254,R257
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM .25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331,R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315,R316,R317,R324,R368,
			R369, R410, R411, R413, R415,
			R416, R417, R424, R468, R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
			R262
A10266-4731	47. KOHM . 25W 5% CF25 T/R	14	R339,R344,R346,R353,R354,
			R355,R356,R439,R444,R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM . 25W 5% CF T/R	2	R330,R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326,R340,R426,R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171,R271
A10266-5641	560. KOHM .25W 5% CF T/R	1	R16
A10266-6831	68. KOHM .25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327,R427
A10266-8211	820. OHM .25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM .25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164,C264
INAC	TIVE		
For Reference		.	
		ΙŅ	NTERNATIONAL INC
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA L NOT BE REPRODUCED. HE BASIS FOR THE MANU PPARATUS OR DEVICES W	ICATIONS ARE THE 1718 WEST MISHAWAKA RO	DAD E	LKHART, INDIANA 46517 PHONE (219) 294-8
	TIONAL, INC. AND DRAWN TLM 26-	09-97	DWG. NO. SHEET 3

	PARTS LIS	1	
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	57	D10, D100, D101, D102, D103,
			D104.D105.D106.D107.D108.
			D109, D11, D111, D112, D115,
			D116.D118.D119.D12.D121.
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134,
			D200, D201, D202, D203, D204,
			D205, D206, D207, D208, D209,
			D211, D212, D215, D216, D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234.D9
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	ИЗХ
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			Q230
C 3625-8	2N4125 30V PNP T/R	22	0100,0101,0114,0116,0118,
			0120,0122,0123,0124,0125,
			0129,0200,0201,0214,0216,
			0218,0220,0222,0223,0224,
			Q225,Q229
C 3786-8	MP54250A 40V PNP T/R	B	0103,0108,0111,0115,0203,
			0208,0211,0215
C 3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			Q227
<u>C 4303-1</u>	1000UF 35V AXIAL CAP	2	C1,C2
<u>C 4345-2</u>	LM339N VOLT COMPARATOR	2	U107,U207
<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
<u>C 5062-2</u>	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
<u> </u>	DIODE, 1N4733A 5.1V ZENER T	1	D8
C 5095-2	MC7815CT +15V. REG	1	U1
<u>C 5096-0</u>	MC7915CT -15V. REG	1	U2
5215-6	22. MOHM .25W 5 THICK FILM T	4	R121, R164, R221, R264
<u> </u>	22UF 50V 20% NP VERT T/A	2	Ċ107,C207
<u> </u>	2.2UF 50V VERT ELECT T/A	3	C151,C251,C4
5891-4	MTS105 THERMAL SENSE T/R	4	Q107,Q110,Q207,Q210
	500 OHM PIHER TRIM	2	R361,R461
	H11C2 OPTO SCR	2	U106,U206
<u> </u>	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
<u> </u>	6P3T MONO/STEREO SWITCH	1	52
C 6802-0	.47UF 50V AXIAL CER T/R 474	6	C141,C145,C152,C241,C245,
			C252
C 6804-6	.1UF 50V AXIAL CER T/R 104	20	C134, C135, C136, C137, C138,
			C139,C144,C160,C161,C234,
· · · · · · · · · · · · · · · · · · ·			
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			TERNATIONAL INC
DRAWINGS AND SPEC	IFICATIONS ARE THE 1718 WEST MISHAWAKA ROA NATIONAL, INC. AND DRAWN TLM 06-0 , COPIED. OR USED DRAWN TLM 06-0 NUFACTURE OR SALE FULL OF THOUT PERMISSION. PROJ. MD36000		LKHART, INDIANA 46517 PHONE (219) 294-
NOT BE DEDDONICET	CORTER OF USED DRAWN TLM 26-2	9-97	DWG. NO. SHEET 4

	PARTS LIS	6T	
<u>C.P.N.</u>	DESCRIPTION	ΔΤΥ	REFERENCE DESIGNATION
			C235,C236,C237.C238,C239,
			C244,C267,C268,C3,C5
<u>C 6805-3</u>	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
			C216,C265,C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117, C124, C131, C217, C224,
			C231
<u>C 6807-9</u>	.001UF 100V 10% AXL CER T/R	4	C122, C123, C222, C223
<u>C 6808-7</u>	470.PF 100V 5% NPO AXL CER T	2	C120.C220
<u>C 6810-3</u>	180PF 100V AXIAL CER T/R 181	2	C121,C221
<u>C 6811-1</u>	100PF 200V 10% NPD AXL CER T	11	C126, C158, C159, C162, C163,
			C226,C258,C259,C262,C263,
			C8
<u>C 6812-9</u>	47PF 200V 10% NPO AXL CER	16	C106,C110,C111,C112,C113,
			C114, C128, C133, C206, C210,
			C211,C212,C213,C214,C228,
			C233
C 6813-7	27PF 200V 10% NPO AXIAL CER	8	C100.C101.C102.C130.C200.
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118, C119, C129, C218, C219,
			C229
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127,C227
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	12	Q113,Q117,Q119,Q121,Q126,
			0128,0213,0217,0219,0221,
			Q226,Q228
C 7526-4	3POS .1 CENTER MTA HEADER	1	J1
<u>C 7558-7</u>	MC33079P QUAD LOW NOISE OP A	2	U103,U203
<u>C 7597-5</u>	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1	MC33078P DUAL LOW NOISE OP A	Э	U109,U209,U4
C 7779-9	22. OHM .25W 5% FU/FP T/R	8	R309,R312,R314,R318,R409,
			R412,R414,R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	S1
C 8182-5	1N753A 6.2V .5W ZENER DIODE	2	D120, D220
<u>C 8576-8</u>	100UF 35V 10% ALUM ELECT T/A	6	C105,C149,C150,C205,C249,
			C250
C 8812-7	5.5" CABLE TIE	4	HW10, HW7, HWB, HW9
C 8836-6	100 OHM .5W 5% FU/FP T/R	4	R152, R155, R252, R255
<u>C 8897-8</u>	.1UF 100V 20% Z5U RAD CER T/	11	C10,C109,C125,C132,C153,
		Į	C209,C225,C232,C253,C6,
		<u> </u>	C9
<u>C 9079-2</u>	200. OHM TOP ADJ CERMET TRIMM	2	R103, R203
C 9464-6	10PF 100V 5% NPO RAD CER T/R	2	C108,C208
<u>C 9494-3</u>	HEATSINK, TØ220 PLUG IN	2	U1X, U2X
<u>C 9857-1</u>	LED, RED T1 .1 LEAD SPACE T/	4	E100,E101,E200,E201
C10208-4	100.UF 25V 20% RAD ELECT T/R	5	C171,C172,C271,C272,C7,
<u>C10570-7</u>	20 PIN HDR PICOFLEX TIN	1	JZA
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Fc	INACTIVE or Reference Use Only CROWN	IN	NTERNATIONAL INC.
	CIFICATIONS ARE THE INATIONAL, INC. AND D. COPIED, OR USED NUFACTURE OR SALE WITHOUT PERMISSION. PROJ. MD360	OAD E	ELKHART, INDIANA 46517 PHONE (219) 294-80 DWG. NO. SHEET 5
E DINATION AND SEED			

PARTS LIST .P.N. DESCRIPTION Q 10571-5 18 PIN HDR PICOFLEX TIN 10587-1 10587-1 220UF 25V 20% NP RAD ELECT T 10588-9 15UF 35V 20% NP RAD ELECT T/ 2961-7 SPS0010 60V NPN T/R 2962-5 MPSA18 45V NPN T/R 6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 60375-1 HDR, 14PIN, VERT, DOUBLE 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21554-1 CD4060 14 STAGE BIN CNTR/OSC 2756-1 PWB, CT'10A MAIN, , .	2 1 2 2 2 2 1	REFERENCE DESIGNATION J2B C143, C148, C243, C248 C142, C147, C242, C247 Q102, Q202 Q112, Q212 N100, N200 J701, J800 J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5 1
10571-5 18 PIN HDR PICOFLEX TIN 10587-1 220UF 25V 20% NP RAD ELECT T 10588-9 15UF 35V 20% NP RAD ELECT T/ 2961-7 SPS8010 60V NPN T/R 2962-5 MPSA18 45V NPN T/R 6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21375-1 2SC3381 DUAL PNP 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	J2B C143, C148, C243, C248 C142, C147, C242, C247 Q102, Q202 Q112, Q212 N100, N200 J701, J800 J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5
10587-1 220UF 25V 20% NP RAD ELECT T 10588-9 15UF 35V 20% NP RAD ELECT T/ 2961-7 SPS8010 60V NPN T/R 2962-5 MPSA18 45V NPN T/R 6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR. 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	4 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 1	C143, C148, C243, C248 C142, C147, C242, C247 Q102, Q202 Q112, Q212 N100, N200 J701, J800 J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5
10588-9 15UF 35V 20% NP RAD ELECT T/ 2961-7 SPS8010 60V NPN T/R 2962-5 MPSA18 45V NPN T/R 6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 2 2 1 2 2 2 2 2 2 2 2 2 1	C142, C147, C242, C247 Q102, Q202 Q112, Q212 N100, N200 J701, J800 J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5
2962-5 MPSA18 45V NPN T/R 6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 80375-1 HDR, 14PIN, VERT, DOUBLE 81051-1 5KOHM 10% LNR 21 DNT POT 1 81374-1 2SA1349 DUAL PNP 80V SIP 81651-1 MC33079N QUAD OPAMP SGS ONLY 82754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 2 1 2 2 2 2 2 2 2 2 1	Q102.Q202 Q112.Q212 N100.N200 J701.J800 J700.J801 J901X R107.R207 U102A.U202A U104A.U204A U100.U200 U5
6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21375-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 2 1 2 2 2 2 2 2 2 2 1	Q112.Q212 N100.N200 J701.J800 J700.J801 J901X R107.R207 U102A.U202A U104A.U204A U100.U200 U5
6082-8 RESISTOR NETWORK-C 8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 00375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 1 2 2 2 2 2 2 2 1	N100.N200 J701.J800 J700.J801 J901X R107.R207 U102A.U202A U104A.U204A U100.U200 U5
8680-7 CABLE, 6 INCH 12 PIN MTA 8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 1 2 2 2 2 2 1	J701, J800 J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5
8681-5 CABLE, 10 INCH 12 PIN MTA 20375-1 HDR, 14PIN, VERT, DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 1 2 2 2 2 1	J700, J801 J901X R107, R207 U102A, U202A U104A, U204A U100, U200 U5
20375-1 HDR. 14PIN. VERT. DOUBLE 21051-1 5KOHM 10% LNR 21 DNT POT 1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	1 2 2 2 2 1	J901X R107,R207 U102A,U202A U104A,U204A U100,U200 U5
21051-1 5KOHM 10% LNR 21 DNT POT .1 21374-1 2SA1349 DUAL PNP 80V SIP 21375-1 2SC3381 DUAL NPN 80V SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 2 2 2 1	R107,R207 U102A,U202A U104A,U204A U100,U200 U5
21374-1 2SA1349 DUAL PNP BØV SIP 21375-1 2SC33B1 DUAL NPN BØV SIP 21651-1 MC33079N QUAD OPAMP SGS ONLY 22754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 2 1	U102A, U202A U104A, U204A U100, U200 U5
01375-1 2SC33B1 DUAL NPN BØV SIP 01651-1 MC33079N QUAD OPAMP SGS ONLY 02754-1 CD4060 14 STAGE BIN CNTR/OSC	2 2 1	U104A, U204A U100, U200 U5
MC33079N QUAD OPAMP SGS ONLY 02754-1 CD4060 14 STAGE BIN CNTR/OSC	2 1	U100,U200 U5
22754-1 CD4060 14 STAGE BIN CNTR/OSC	1	U5
	1	
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	SC.P.N.	DESCRIPTION	MAP LOC.
	102756-1	PWB, CT'10A MAIN,	
21	C 4303-1	1000UF 35V AXIAL CAP	Н 4
22	C 4303-1	1000UF 35V AXIAL CAP	I 4
23	C 6804-6	.1UF 50V AXIAL CER T/R 104	
24	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
25	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
C6	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
:7	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 5
:8	C 6811-1	100PF 200V 10% NPO AXL CER T/R	E 6
:9	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	I 6
C10	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Н 5
C100	C 6813-7	27PF 200V 10% NPO AXIAL CER	JЭ
C1Ø1	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
:104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	K 1
108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
2110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
<u> </u>	C 6812-9	47PF 200V 10% NPO AXL CER	<u> </u>
2112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
2113	<u>C 6812-9</u>	47PF 200V 10% NPO AXL CER	<u> </u>
	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
2116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
117	C 6806-1	.01UF 100V AXIAL CER T/R 103	МЗ
<u>2118</u> 2119	C 6814-5	12PF 200V AXIAL CER T/R 120	<u>M 2</u>
.119	C 6814-5 C 6808-7	12PF 200V AXIAL CER T/R 120 470.PF 100V 5% NPO AXL CER T/R	<u>M3</u>
120	C 6810-3	180PF 100V AXIAL CER T/R 181	P 5 M 4
122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
122	C 6807-9	.001UF 100V 10% AXL CER T/R	
123	C 6806-1	.01UF 100V AXIAL CER T/R 103	<u> </u>
125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	K 4
126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	K 4
127	C 6950-7	B2PF 200V 5% NPO AXIAL CER T/R	K 4
128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЭ
130	C 6813-7	27PF 200V 10% NPO AXIAL CER	КЗ
:131	C 6806-1	.01UF 100V AXIAL CER T/R 103	кз
132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЭ
:133	C 6812-9	47PF 200V 10% NPO AXL CER	КЭ
:134	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
:135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
	INACTIVI		
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				ARTS LIST			
EF DE	SC.P.N.	DESCRIPT					MAP LOC.
136	C 6804-6			AL CER T/R			0 2
137	C 6804-6		and the second s	AL CER T/R			P 2
138	C 6804-6			AL CER T/R			04
C1 3 9	C 6804-6	.1UF 5	SØV AXI	AL CER T/R	104		P 4
C140		DO NOT 1	NSTALL				04
2141	C 6802-0	.47UF 5	SOV AXI	AL CER T/R	474		04
C1 4 2	C10588-9	15UF 351	/ 20% N	P RAD ELECT	T/R		N 4
2143	C10587-1	220UF 25	5V 20%	NP RAD ELEC	T T/R		<u>N 5</u>
2144	C 6804-6	.1UF 5	50V AXI	AL CER T/R	104		РЭ
C145	C 6802-0	.47UF 5	50V AXI	AL CER T/R	474		P 4
2146		DO NOT 1	INSTALL				P 4
2147	C10588-9	15UF 35\	/ 20% N	P RAD ELECT	T/R		P 4
C1 4 B	C10587-1	220UF 25	SV 20%	NP RAD ELEC	T T/R		P 5
C149	C 8576-8	100UF 35	5V 10%	ALUM ELECT	T/A		М 5
2150	C 8576-8	100UF 35	5V 10%	ALUM ELECT	T/A		M 4
C151	C 5362-6	2.2UF	50V VE	RT ELECT T/	A		L 5
C152	C 6802-0	.47UF 5	50V AXI	AL CER T/R	474		L 5
C153	C 8897-8			Z5U RAD CER			κ 5
C156		DO NOT					M 4
C157		DO NOT					M 4
C158	C 6811-1			NPO AXL CE	R T/R		N 4
C159	C 6811-1			NPO AXL CE			NЭ
2160	C 6804-6			AL CER T/R			N 4
C161	C 6804-6			AL CER T/R			NЭ
2162	C 6811-1			NPO AXL CE			I 4
2163	C 6811-1		and the second	NPO AXL CE			I 4
C164	A10434-104JD					1	0 6
C171	C10208-4			RAD ELECT			<u>J</u> 1
C172	C10208-4			RAD ELECT			J_1
200	C 6813-7			NPO AXIAL C	and the second		<u> </u>
C200	C 6813-7		فيستبين بالمستقف المتقاربين	NPO AXIAL C			<u> </u>
C202	C 6813-7			NPO AXIAL C			<u> </u>
202	C 8576-8			ALUM ELECT			<u> </u>
205	C 6812-9			NPO AXL CER			G 2
200	C 5311-3						<u> </u>
			· · · · · · · · · · · · · · · · · · ·	P VERT T/A	T /D		F 2
C208	<u>C 9464-6</u>			PO RAD CER	an a		
C209	C 8897-8			Z5U RAD CER			<u> </u>
C210	C 6812-9		<u>3V 10%</u>				F 2
C211	C 6812-9	47PF 200					<u>E 3</u>
C212	C 6812-9	47PF 200			,		<u>E 2</u>
C213	C 6812-9	47PF 200					Е Э
214	C 6812-9			NPO AXL CER			E 3
215	C 6805-3			IALCER T/R			E 3
216	C 6805-3				223		E 2
217	C 6806-1			AL CER T/R			DЭ
218	C 6814-5			L CER T/R 1			D 2
219	C 6814-5	12PF 200	AIXA VE	L CER T/R 1	20		DЭ
					·····		
	INACTI\	/E					
	For Reference Us		С	ROWN I	NTERN	ATIONA	AL INC
	5 AND SPECIFICATIONS AR	E THE	1718 WEST	MISHAWAKA ROAD	ELKHART, INDI	ANA 46517 Pł	HONE (219) 294
NOT BE	S AND SPECIFICATIONS AR ROWN INTERNATIONAL, INC REPRODUCED, COPIED, OR For THE MANUFACTURE OR DR DEVICES WITHOUT PERM	. AND USED	DRAWN	TLM 06-09-9		~ ~ – –	SHEET 8 CONT. ON
HE BASIS F	FOR THE MANUFACTURE OR	SALE	PROJ.	MD360D0	п 1 <i>I</i> /	2755	SHEET 9

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
C220	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	A 5
C221	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222	C 6807-9	.001UF 100V 10% AXL CER T/R	A 5
C223	C 6807-9	.001UF 100V 10% AXL CER T/R	B 5
C224	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
C225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1	100PF 200V 10% NPD AXL CER T/R	F 4
C227	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	F 3
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	FЭ
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C234	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	AЭ
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C237	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 4
C240		DO NOT INSTALL	A 4
C241	C 6802-0	.47UF 50V AXIAL CER T/R 474	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	A 4
C244	C 6804-6	.1UF 50V AXIAL CER T/R 104	ВЭ
C245	C 6802-0	.47UF 50V AXIAL CER T/R 474	B 4
C246		DO NOT INSTALL	<u>B 4</u>
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	C 4
C248	C10587-1	220UF 25V 20% NP RAD ELECT T/R	<u>C 5</u>
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250 C251	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C252	<u>C 5362-6</u> C 6802-0	2.2UF 50V VERT ELECT T/A	<u>E 5</u>
C253	C 8897-8	.47UF 50V AXIAL CER T/R 474	E 5
C256		.1UF 100V 20% Z5U RAD CER T/R DO NOT INSTALL	F 5
2257		DO NOT INSTALL	D 4
2258	C 6811-1		D 4
2250	C 6811-1	100PF 200V 10% NPO AXL CER T/R 100PF 200V 10% NPO AXL CER T/R	
262	C 6811-1		СЭ
263	C 6811-1	100PF 200V 10% NPO AXL CER T/R 100PF 200V 10% NPO AXL CER T/R	
264	A10434-104JD		
265	C 6805-3	.022UF 100V AXIALCER T/R 223	<u> </u>
266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
267	C 6804-6	.1UF 50V AXIAL CER T/R 104	
268	C 6804-6	.1UF 50V AXIAL CER T/R 104	
271	C10208-4	100.UF 25V 20% RAD ELECT T/R	
272	C10208-4	100. UF 25V 20% RAD ELECT T/R	<u> </u>
	INACTIVE		
	For Reference Use On		AL INC
RTY_OF_CROW	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	AND DRAWN TLM 06-09-97 DWG. NO.	SHEET 9

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
DЭ	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
D5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
DB	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
D9	<u>C 3181-2</u>	DIODE, 1N4148 T/R	Н 6
D10	<u>C 3181-2</u>	DIODE, 1N414B T/R	НБ
D11	<u>C 3181-2</u>	DIODE, 1N4148 T/R	H 6
D12	<u>C 3181-2</u>	DIODE, 1N4148 T/R	H 6
D13	<u>C 3181-2</u>	DIODE, 1N4148 T/R	I 6
D100	C 3181-2	DIODE, 1N4148 T/R	К 2
D101	C 3181-2	DIODE, 1N4148 T/R	К 2
D102	<u>C 3181-2</u>	DIODE, 1N4148 T/R	LЗ
D103	C 3181-2	DIODE, 1N414B T/R	L 2
D104	C 3181-2	DIODE, 1N4148 T/R	МЭ
D105	C 3181-2	DIODE, 1N4148 T/R	МЭ
D106	C 3181-2	DIODE, 1N4148 T/R	ЕМ
D107	C 3181-2	DIODE, 1N4148 T/R	Е М
D108	<u>C 3181-2</u>	DIODE, 1N414B T/R	M 2
D109	<u>C 3181-2</u>	DIODE, 1N414B T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	<u>C 3181-2</u>	DIODE, 1N4148 T/R	05
D112	C 3181-2	DIODE, 1N414B T/R	P 5
D113	<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	ЕМ
D114	<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	К 4
D115	C 3181-2	DIODE, 1N4148 T/R	К 4
D116	<u>C 3181-2</u>	DIODE, 1N4148 T/R	КЗ
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	<u>C 3181-2</u>	DIODE, 1N4148 T/R	J 3
D119	C 3181-2	DIODE, 1N4148 T/R	J3
D120	<u>C 8182-5</u>	1N753A 6.2V .5W ZENER DIODE	03
D121	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u> </u>
D122	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 5
D123 D124	<u>C 3181-2</u>	DIODE, 1N4148 T/R	LG
D124 D125	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	
D125 D127	C 3181-2	DIODE, 1N4148 T/R	
D127 D128	C 3533-4	DIODE, 1N4148 T/R	
D128 D129	C 2851-1	DIODE, 1N966B 16V ZENER T/R	
D129 D130	C 3181-2	RECTIFIER, 1N4004 SILICON T/R	L 5
D130 D131	C 3181-2	DIODE, 1N414B T/R	<u>K 4</u>
D132	C 2851-1	DIODE, 1N4148 T/R	КЗ
D132 D133	C 3181-2	RECTIFIER, 1N4004 SILICON T/R	L 5
D133	C 3181-2	DIODE, 1N414B T/R	J 1
		DIODE, 1N4148 T/R	J 2
	INACTI	 VE	
	For Reference U	CROWN INTERNATION	
DRAWINGS A	ND SPECIFICATIONS A N INTERNATIONAL, IN RODUCED, COPIED, OF THE MANUFACTURE OF DEVICES WITHOUT PER	RE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 IC. AND DRAWN TLM 26-29-97 DWG. NO.	PHONE (219) 294-0
NOT BE REP	RODUCED, COPIED, OF	LISED DHAWN TLM 05-29-97 DWS. NO. 102755 MISSION. PROJ. M036000 102755	SHEET 10 CONT. ON

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D201	C 3181-2	DIODE, 1N4148 T/R	F 2
D202	C 3181-2	DIODE, 1N414B T/R	ЕЗ
D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D204	C 3181-2	DIODE, 1N4148 T/R	DЭ
D205	C 3181-2	DIODE, 1N4148 T/R	DЭ
D206	C 3181-2	DIODE, 1N414B T/R	DЭ
D207	<u>C 3181-2</u>	DIODE, 1N414B T/R	DЭ
D208	<u>C 3181-2</u>	DIODE, 1N4148 T/R	D 2
D209	<u>C 3181-2</u>	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211 D212	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	<u>B5</u>
D212 D213	C 5061-4	DIODE, 1N4148 T/R	<u>A 5</u>
D213	C 5061-4	DIODE, 1N3070 10K/T&R DIODE, 1N3070 10K/T&R	<u>D3</u>
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D217	C 5061-4	DIODE, 1N3070 10K/T&R	F 3
D218	C 3181-2	DIODE, 1N4148 T/R	G G G
D219	C 3181-2	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	A 3
D221	C 3181-2	DIODE, 1N4148 T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	<u>C 3181-2</u>	DIODE, 1N4148 T/R	E 6
D225	<u>C 3181-2</u>	DIODE, 1N4148 T/R	E 6
D227	<u>C 3181-2</u>	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229 D230	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2 C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	F 4
D232	C 2851-1	DIODE, 1N4148 T/R RECTIFIER, 1N4004 SILICON T/R	F 3
D233	C 3181-2	DIODE, 1N4148 T/R	E 5 G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
-1W7	C 8812-7	5.5" CABLE TIE	АБ
HWB	C 8812-7	5.5" CABLE TIE	С 6
-IW9	C 8812-7	5.5" CABLE TIE	N 6
-1W1 Ø	C 8812-7	5.5" CABLE TIE	P 6
J1	C 7526-4	3POS . 1 CENTER MTA HEADER	Ι6
JZA	C10570-7	20 PIN HDR PICOFLEX TIN	ІЭ
128	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
1700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
1701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
	INACTIV For Reference Use		AL INC
DRAWINGS /	ND SPECIFICATIONS IN INTERNATIONAL, I PRODUCED, COPIED, C	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 NC. AND DRAWN TLM 26-09-97 DWG. NO.	PHONE (219) 294-

REF DES	C.P.N	DESCRIPTION	
1800	D 8680-7		MAP LOC.
J801	D 8681-5	CABLE, 6 INCH 12 PIN MTA	86
J901X	100375-1	CABLE, 10 INCH 12 PIN MTA	<u> </u>
N100	D 6082-8	HDR, 14PIN, VERT, DOUBLE ROW RESISTOR NETWORK-C	<u>H 4</u>
N200	D 6082-8	RESISTOR NETWORK-C	L 3
Q100	C 3625-8	2N4125 30V PNP T/R	<u>E 3</u>
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	<u> </u>
Q102	D 2961-7	5P58010 60V NPN T/R	<u> </u>
Q103	C 3786-8	MPS4250A 40V PNP T/R	M 4
Q104	C 3578-9	MPSA93 200V PNP T/R	M 2
Q105	C 3810-6	MP5A42 300V NPN T/R	МЗ
0106	C 3578-9		M 2
0107	C 5891-4	MPSA93 200V PNP T/R	MZ
Q108	C 3786-8	MTS105 THERMAL SENSE T/R	05
0109	C 3810-6	MP54250A 40V PNP T/R	05
Q110	C 5891-4	MPSA42 300V NPN T/R	M 4
0111	C 3786-8	MTS105 THERMAL SENSE T/R	05
0112	D 2962-5	MPS4250A 40V PNP T/R	05
Q112 Q113	D 2962-5 C 7458-0	MP5A18 45V NPN T/R	К 4
Q114	C 3625-8	2N4123 30V NPN T/R	J 4
Q115	C 3786-8	2N4125 30V PNP T/R	ΕĽ
Q116	C 3625-8	MPS4250A 40V PNP T/R	КЗ
Q117		2N4125 30V PNP T/R	0 1
0118	C 7458-0 C 3625-8	2N4123 30V NPN T/R	0 1
0119	C 7458-0	2N4125 30V PNP T/R	M 5
Q120	C 3625-8	2N4123 30V NPN T/R	M 5
	C 7458-0	2N4125 30V PNP T/R	M 4
0122	C 3625-8	2N4123 30V NPN T/R	M 4
D123	C 3625-8	2N4125 30V PNP T/R	M 4
	C 3625-8	2N4125 30V PNP T/R	M 5
	C 3625-8	2N4125 30V PNP T/R	M 4
	C 7458-0	2N4125 30V PNP T/R	M 4
2127	C 3810-6	2N4123 30V NPN T/R	L 4
2128	C 7458-0	MPSA42 300V NPN T/R	К 4
2129	C 3625-8	2N4123 30V NPN T/R	M 4
2130	C 3578-9	2N4125 30V PNP T/R	M 4
2131	C 7597-5	MPSA93 200V PNP T/R	<u> </u>
	C 3625-8	J202 N-CHANNEL JFET	<u> </u>
200	C 3625-8	2N4125 30V PNP T/R	F 2
	D 2961-7	2N4125 30V PNP T/R	F 2
	C 3786-8	SP58010 60V NPN T/R	D 4
	C 3578-9	MPS4250A 40V PNP T/R MPSA93 200V PNP T/R	D 2
	C 3810-6		DЗ
	C 3578-9	MPSA42 300V NPN T/R	C 2
	C 5891-4	MPSA93 200V PNP T/R	C 2
	C 3786-8	MTS105 THERMAL SENSE T/R	A 5
	C 3810-6	MPS4250A 40V PNP T/R	A 5
		MPSA42 300V NPN T/R	D 4
<u> </u>			
	INACTIN For Reference Us	e Only	
DRAWINGS AN	D SPECIFICATIONS A INTERNATIONAL, IN DDUCED, COPIED, OR THE MANUFACTURE OR EVICES WITHOUT PER	RE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 F	AL INC
ILY OF CROWN	INTERNATIONAL. IN	C. AND DRAWN TLM 86-89-97 DWG. NO.	SHEET 12

REF DES			
Q210	C 5891-4	DESCRIPTION	MAP LOC.
0211	C 3786-8	MTS105 THERMAL SENSE T/R MPS4250A 40V PNP T/R	A 5
0212	D 2962-5	MPSA18 45V NPN T/R	B 5
0212	C 7458-0	2N4123 30V NPN T/R	F 4
0214	C 3625-8		<u> </u>
0215	C 3786-8	2N4125 30V PNP T/R MPS4250A 40V PNP T/R	<u> </u>
0216	C 3625-8	2N4125 30V PNP T/R	F 3
0217	C 7458-0	2N4123 30V PNP T/R	<u>B 1</u>
Q218	C 3625-8	2N4125 30V PNP T/R	B 1 C 5
0219	C 7458-0	2N4123 30V NPN T/R	
0220	C 3625-8	2N4125 30V PNP T/R	
0221	C 7458-0	2N4123 30V NPN T/R	
Q222	C 3625-8	2N4125 30V PNP T/R	
0223	C 3625-8	2N4125 30V PNP T/R	
Q224	C 3625-8	2N4125 30V PNP T/R	D 5
0225	C 3625-8	2N4125 30V PNP 1/R 2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V PNP 1/R 2N4123 30V NPN T/R	
0227	C 3810-6	MPSA42 300V NPN T/R	E 4 F 4
0228	C 7458-0	2N4123 30V NPN T/R	
0229	C 3625-8	2N4125 30V NPN 1/R 2N4125 30V PNP T/R	
0230	C 3578-9	MPSA93 200V PNP T/R	
0230	C 7597-5	J202 N-CHANNEL JFET	E 4
R1			G 6
R2	A10265-53621		E 2
R4	A10265-10031		F 2
R5	A10265-24921		G 5
R6	A10265-24921		G 5
R7	A10265-10031		F 5
RB	A10265-1051		F 5
R9	A10266-1051	1.0 MOHM .25W 5 CF T/R 1.0 MOHM .25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2 H 2
R11	A10266-9111	910. OHM .25W 5 CF T/R	I 2
R12	A10124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	Нб
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 5
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R	<u> </u>
R16	A10266-5641	560. KOHM . 25W 5% CF T/R	G 6
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 6
R18	A10266-2421	2.4 KOHM . 25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM . 25W 5 CF T/R	E 6
R20	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R21	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R22	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u> </u>
R23	A10266-2051	2.0 MOHM . 25W 5 CF T/R	H 5
R24	A10266-1031	10. KOHM . 25W 5% CF T/R	
R25	A10265-10011	1.0 KOHM .25W 1 MF T/R	
R100	A10265-10021	10. KOHM . 25W 1 MF T/R	J 3
<u> </u>	LILLESS TOULT		J
			+
	INACTIVE		1
Fa	or Reference Use Only		
		CROWN INTERNATION	
E DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL. INC. RODUCED, COPIED, OR L	THE 1718 WEST MISHAWAKA ROAD ELKHART. INDIANA 46517	PHONE (219) 294-8

R101 R102 R103 R104 R105 R106 R107	C.P.N. A10265-10021 A10265-10021 C 9079-2 A10265-10021	DESCRIPTION 10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	MAP LOC. J 3
R102 R103 R104 R105 R106 R107	A10265-10021 C 9079-2		
R103 R104 R105 R106 R107	C 9079-2		J J
R104 R105 R106 R107		200.0HM TOP ADJ CERMET TRIMMER	I 2
R105 R106 R107		10. KOHM .25W 1 MF T/R	J 2
R106 R107	A10265-49911		I 3
R107	A10265-49911		IЭ
24.00	101051-1	5K, , 10%, LINEAR W/21 DETENT	J 2
R108	A10265-11821	11.8 KOHM .25W 1% MF T/R	I 1
R109	A10265-24921		I I
R110	A10265-69811		I 1
R111	A10265-24921	24.9 KDHM .25W 1% MF T/R	К 2
R112	A10265-2201	22.0 OHM .25W 5 CF T/R	J 2
R113	A10265-49911		К 2
R114	A10265-10031		К 2
R115	A10265-15031		J 4
R116		10.7KOHM .25W 1% MF T/R	I 4
R117	A10265-20031		I J
R118	A10265-10521		IЗ
R119	A10265-10031	100. KOHM .25W 1 MF T/R	К 2
R120	A10266-5111	510. OHM .25W 5 CF T/R	К 2
7121	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	К 2
7122	A10266-1321	1.3 KOHM .25W 5 CF T/R	K 2
3123	A10265-49911		K 2
7124	A10266-1231	12.KOHM .25W 5% CF T/R	L 3
7125	A10266-1231	12.KOHM .25W 5% CF T/R	L 2
7126	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 3
7127	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 2
7128	A10266-6831	68. KOHM . 25W 5% CF T/R	L 3
7129	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R130	A10265-10031		L 3
7131	A10265-10031	100. KOHM .25W 1 MF T/R	L 2
3132	A10266-4701	47.0 OHM .25W 5 CF T/R	L 4
7133	A10266-4701	47.0 OHM .25W 5 CF T/R	L 2
7134	A10266-4711	470. OHM .25W 5% CF T/R	МЗ
7135	A10266-2201	22.0 OHM .25W 5 CF T/R	МЭ
R136	A10266-8211	820. OHM . 25W 5% CF T/R	МЗ
3137	A10266-8211	820. OHM .25W 5% CF T/R	M 2
7138	A10266-2201	22.0 OHM .25W 5 CF T/R	M 2
139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
R140	A10266-4721	4.7 KOHM .25W 5% CF T/R	P 5
2141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
R142	A10265-66501	665. OHM .25W 1 MF T/R	05
R143	A10265-27401	274. OHM . 25W 1% MF T/R	P 5
8144	A10265-27401	274. OHM .25W 1% MF T/R	05
145	A10265-66501	665. OHM .25W 1 MF T/R	05
8146	A10265-66501	665. OHM .25W 1 MF T/R	05
147	A10265-66501	665. OHM .25W 1 MF T/R	05
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	For Reference Use Onl	CROWN INTERNATION	AL INC
DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC.		HONE (219) 294

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R148		100. KOHM .25W 5% CF25 T/R	P 5
R149		3.57KOHM .25W 1 MF T/R	P 5
R150		3.57KOHM .25W 1 MF T/R	05
R151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
R152	C 8836-6	100 OHM .5W 5% FU/FP T/R	<u>к 4</u>
R153	A10266-1031	10. KOHM . 25W 5% CF T/R	Κ 4
R154	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
R155	C 8836-6	100 OHM .5W 5% FU/FP T/R	КЗ
R156	A10266-1031	10. KOHM .25W 5% CF T/R	КЭ
R157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЭ
R158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
R159	A10265-10011	1.0 KOHM .25W 1 MF T/R	КЭ
R160	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
R161	A10266-4721	4.7 KOHM .25W 5% CF T/R	JЗ
R162	A10266-4721	4.7 KOHM .25W 5% CF T/R	JЗ
R163	A10265-10021	10. KOHM .25W 1 MF T/R	JЭ
7164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
R165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
R166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЭ
7168	A10124-24	WIRE, #24 SOLID BUS	КЗ
7169	A10265-27431	274.KOHM .25W 1% MF T/R	J 2
R170	A10265-95311	9.53KOHM .25W 1% MF T/R	J 2
R171	A10266-5621	5.6 KOHM .25W 5% CF T/R	P 3
R172	A10266-1541	150. KOHM .25W 5% CF T/R	03
R173		17.8KOHM .25W 1% MF T/R	03
7174		24.9 KOHM .25W 1% MF T/R	03
R175	A10265-49911	4.99KOHM .25W 1 MF T/R	03
R176	A10265-68111	6.81KOHM .25W 1% MF T/R	03
7177	A10265-33221	33.2KOHM .25W 1% MF T/R	04
7178	A10265-10021		D 4
7179		2.0 KOHM .25W 1% MF T/R	03
7180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
7181	A10265-10001	100. OHM .25W 1 MF T/R	02
7182	A10265-51121	51.1 KOHM .25W 1% MF T/R	02
3183	A10265-68111	6.81KOHM .25W 1% MF T/R	02
R184	A10265-10001	100. OHM .25W 1 MF T/R	02
R185	A10266-2741	270. KOHM .25W 5% CF25 T/R	02
<u> 186</u>	C 5062-2	100KOHM LINEAR TRIMPOT	02
187	A10265-14321	14.3 KOHM .25W 1% MF T/R	04
R188	A10265-32421	32.4KOHM .25 1% MF T/R	04
189	A10265-19121	19.1KOHM .25W 1% MF T/R	04
190	A10265-33221	33.2KOHM .25W 1% MF T/R	РЗ
191	A10265-10021	10. KOHM .25W 1 MF T/R	РЗ
192	A10265-20011	2.0 KOHM . 25W 1% MF T/R	Р 3
193	A10265-20011	2.0 KOHM . 25W 1% MF T/R	P 4
7194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
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REF DES	5 C.P.N.	DESCRIPTION	MAP LOC.
R195	A10265-10001	100. OHM.25W.1 MFT/R	P 2
R196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
R197		6.81KOHM .25W 1% MF T/R	P 2
R198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
R200	A10265-10021	10. KOHM.25W1 MF T/R	G 3
R201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R202	A10265-10021	10. KDHM.25W 1 MF T/R	G 3
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	H 1
R204	A10265-10021	10. KOHM.25W 1 MF T/R	G 2
R205	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R206	A10265-49911	4.99KOHM .25W 1 MF T/R	НЭ
R207	101051-1	5K, , 10%, LINEAR W/21 DETENT	F 2
R208	A10265-11821	11.8 KOHM .25W 1% MF T/R	H 1
R2Ø9	A10265-24921		H 1
R210	A10265-69811		H 1
R211	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 2
R212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
R213	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R214	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R215	A10265-15031	150 KOHM .25 1% MF T/R	G 4
R216		10.7KOHM .25W 1% MF T/R	H 4
R217		200.KOHM .25W 1 MF T/R	НЭ
R218	A10265-10521	10.5KOHM .25W 1% MF T/R	НЗ
R219	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
R221	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
R222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
R223	A10265-49911		F 2
R224	A10266-1231	12.KOHM .25W 5% CF T/R	Е З
7225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
7226	A10266-2721	2.7 KOHM .25W 5 CF T/R	Е Э
7227	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
7228	A10266-6831	68. KOHM .25W 5% CF T/R	Е З
7229	A10266-6831	68. KOHM .25W 5% CF T/R	Е Э
7230	A10265-10031	100. KOHM .25W 1 MF T/R	Е З
7231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
1232	A10266-4701	47.0 OHM .25W 5 CF T/R	E 4
1233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
7234	A10266-4711	470. OHM .25W 5% CF T/R	DЗ
1235	A10266-2201	22.0 OHM .25W 5 CF T/R	DЭ
1236	A10266-B211	820. OHM .25W 5% CF T/R	DЭ
7237	A10266-0211	820. OHM .25W 5% CF T/R	D 2
7238	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
1239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
1240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
7241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
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REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R242	A10265-66501		B 5
R243	A10265-27401	274. OHM .25W 1% MF T/R	A 5
R244	A10265-27401	274. OHM .25W 1% MF T/R	85
R245	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R246	A10265-66501	665. OHM .25W 1 MF T/R	85
R247	A10265-66501		B 5
R248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
R249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
R250	A10265-35711		B 5
R251	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 5
R252	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 4
R253	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R254	A10266-2721	2.7 KOHM .25W 5 CF T/R	E3
R255	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 3
R256	A10266-1031		E 3
R257	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
R258	A10266-3021	3.0 KOHM .25W 5 CF T/R	<u> </u>
R259	A10265-10011		F 3
R260	A10265-10021		G 3
R261	A10266-4721	4.7 KOHM .25W 5% CF T/R	<u> </u>
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	<u> </u>
R263	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 3
R265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
R266	A10265-95311	9.53KOHM .25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
R27Ø	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
R271	A10266-5621	5.6 KOHM .25W 5% CF T/R	вз
R272	A10266-1541	150. KOHM .25W 5% CF T/R	E A
R273	A10265-17821	17.8KOHM .25W 1% MF T/R	A 3
7274	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 3
7275	A10265-49911	4.99KOHM .25W 1 MF T/R	A 3
7276	A10265-68111	6.81KOHM .25W 1% MF T/R	E A
	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
	A10265-20011	2.0 KOHM . 25W 1% MF T/R	E A
	A10265-10001	100. OHM .25W 1 MF T/R	A 2
	A10265-51121	51.1 KOHM .25W 1% MF T/R	A 2
		6.81KOHM .25W 1% MF T/R	A 2
	A10265-10001	100. OHM .25W 1 MF T/R	A 2
	A10266-2741	270. KOHM . 25W 5% CF25 T/R	A 2
	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
	A10265-14321	14.3 KOHM .25W 1% MF T/R	A 4
1288	A10265-32421	32.4KOHM .25 1% MF T/R	A 4
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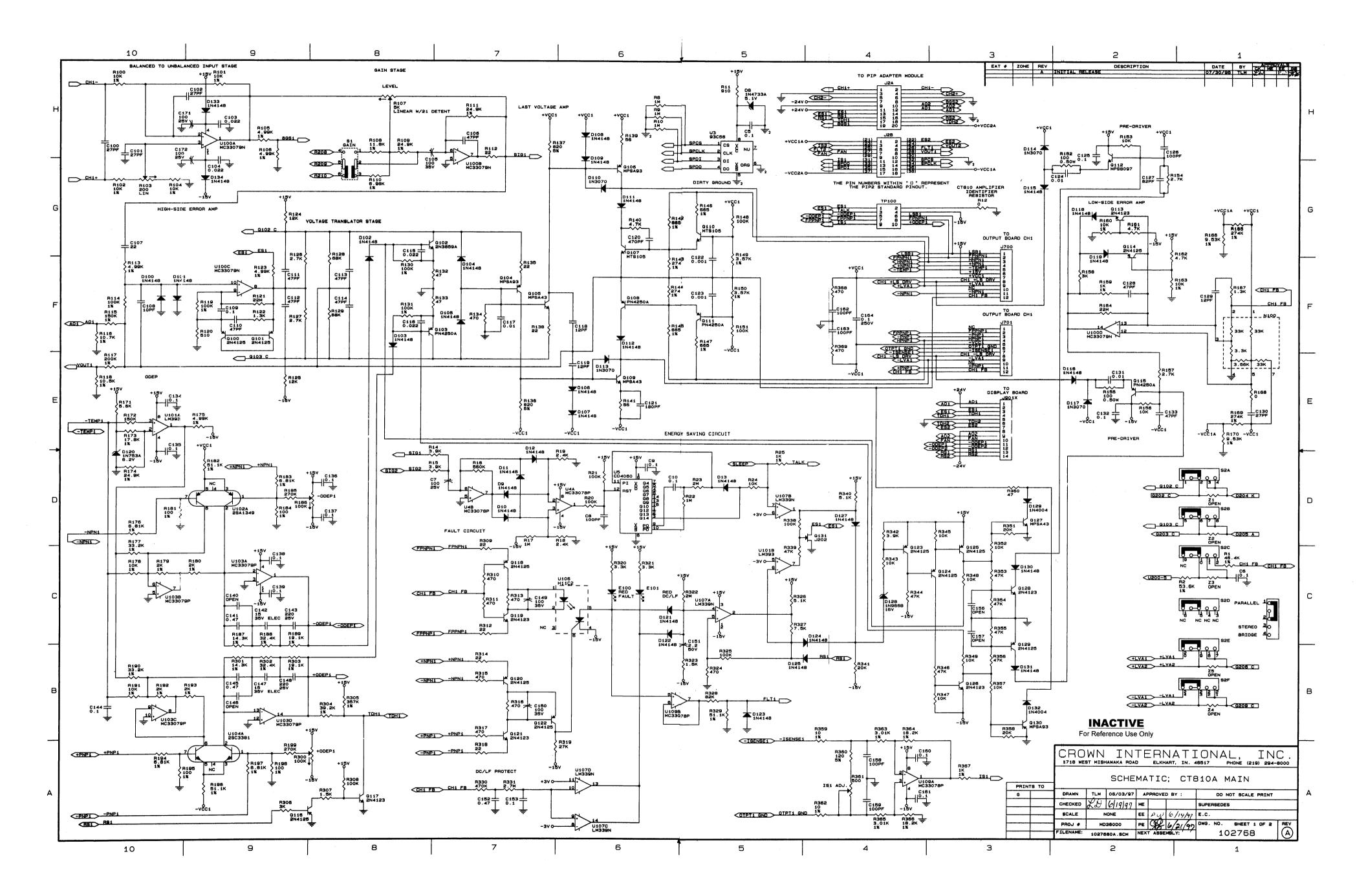
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	C. P. N.	DESCRIPTION	MAP LOC.
R289 R290		19.1KOHM .25W 1% MF T/R	<u>A 4</u>
R291	A10265-10021	33.2KOHM .25W 1% MF T/R	ВЗ
R292			<u>B3</u>
R293	A10265-20011		<u>B4</u>
R294	A10265-68111		
R295	A10265-10001		B 3 B 2
R296		51.1 KOHM .25W 1% MF T/R	B 2
R297		6.81KOHM .25W 1% MF T/R	B 2
R298	A10265-10001		B 2
R299	A10266-2741	270. KOHM . 25W 5% CF25 T/R	B 2
R300	C 5062-2	100KOHM LINEAR TRIMPOT	P 2
R301		14.3 KOHM .25W 1% MF T/R	P 4
R302		32.4KOHM .25 1% MF T/R	P 4
R3Ø3		19.1KOHM .25W 1% MF T/R	P 4
R304		39.2KOHM .25W 1% MF T/R	P 4
R305		357.KOHM .25W 1 MF T/R	P 4
R306	A10266-3021	3.0 KOHM .25W 5 CF T/R	D 1
R307	A10266-1521	1.5 KOHM .25W 5% CF T/R	0 1
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R	
R309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R312	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R319	A10266-2731	27. KOHM .25W 5 CF T/R	N 5
R320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R322	A10266-2051	2.0 MOHM .25W 5 CF T/R	К 5
R323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
R324	A10266-4711	470. OHM .25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM .25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
R327	A10266-7521	7.5 KOHM .25W 5% CF T/R	K 5
R328	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R330	A10266-4741	470. KOHM . 25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM .25W 5% CF T/R	L 5
R338	A10266-1041	100. KOHM .25W 5% CF25 T/R	JG
R339	A10266-4731	47. KOHM . 25W 5% CF25 T/R	JG
R340	A10266-5121	5.1 KOHM . 25W 5 CF T/R	L G
R341	A10266-2031	20. KOHM .25W 5 CF T/R	L 6
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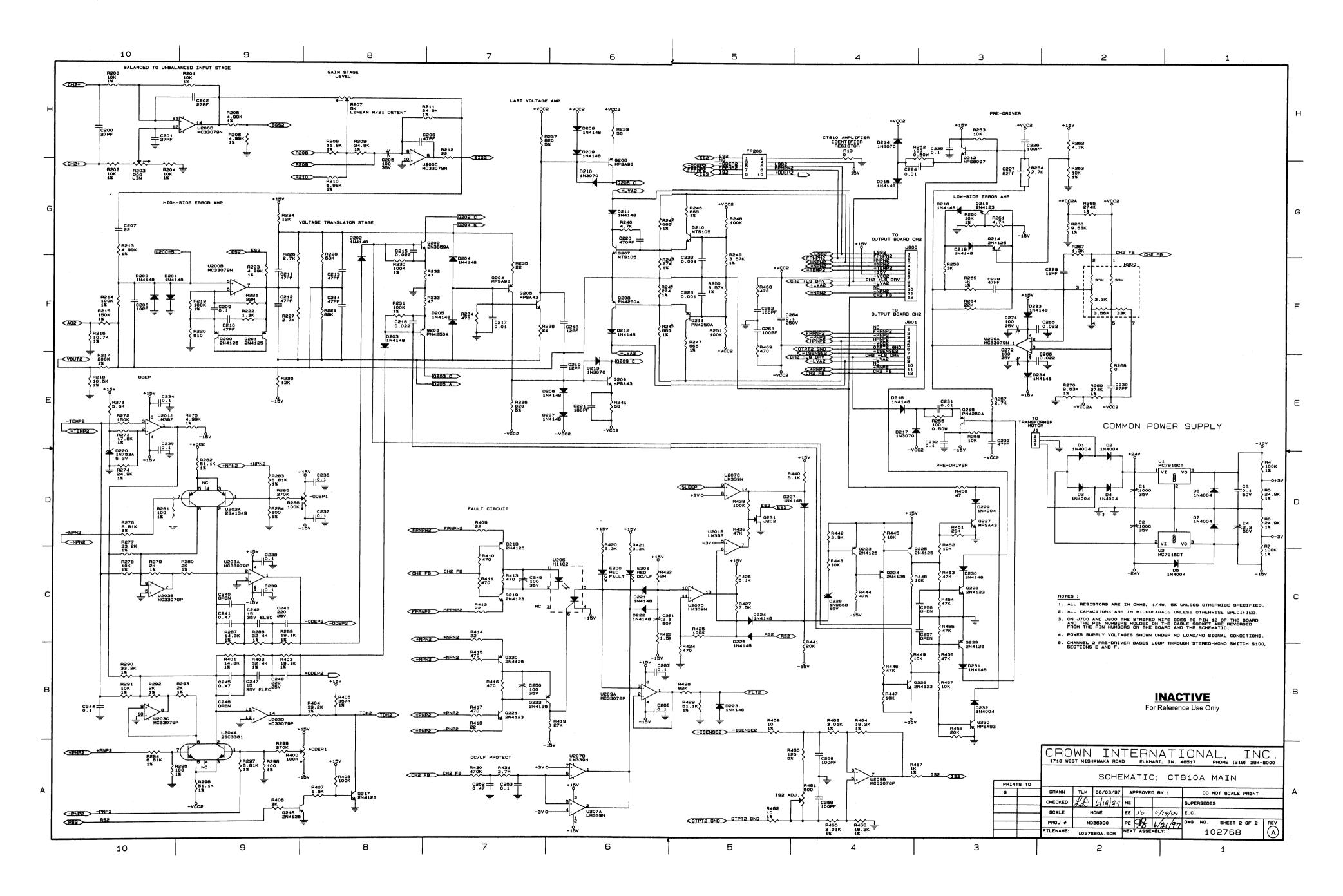
REF DES	C.P.N.	PARTS LIST	MAP LOC.
R342	A10266-3921	3.9 KOHM .25W 5% CF T/R	L 5
R343	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
R344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
R345	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
R346	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R347			L 4
R348	A10266-1031		L 4
R349	A10266-1031	10. KOHM .25W 5% CF T/R 47.0 OHM .25W 5 CF T/R	L 5
R350	A10266-4701		<u>к</u> 4
R351	A10266-2031		L 4
R352	A10266-1031	10. KOHM . 25W 5% CF T/R	L 4
R353	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R354	A10266-4731	47. KOHM . 25W 5% CF25 T/R	<u>L 4</u>
R355	A10266-4731	47. KOHM .25W 5% CF25 T/R	
R356	A10266-4731	47. KOHM .25W 5% CF25 T/R	<u> </u>
R357	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R358	A10266-2031	20. KOHM .25W 5 CF T/R	L 4
R359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R360	A10266-1211	120. OHM .25W 5 CF T/R	<u>N 4</u>
R361	C 6048-0	500 OHM PIHER TRIM	N 4
R362	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R363	A10265-30111	3.01KOHM .25W 1 MF T/R	NЭ
R364	A10265-18221		ΝЭ
R365	A10265-30111	3.01KOHM .25W 1 MF T/R	N 3
R366	A10265-18221		N 3
R367	A10265-10011	1.0 KOHM .25W 1 MF T/R	N 3
R368	A10265-4711	470. OHM .25W 5% CF T/R	J 4
	A10266-4711	470. OHM . 25W 5% CF T/R	J 4
R369	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
R400		14.3 KOHM .25W 1% MF T/R	B 4
R401	A10265-14321		B 4
R402	A10265-32421		B 4
R403		19.1KOHM .25W 1% MF T/R	B 4
R404	A10265-39221		B 5
R405	A10265-35731	357.KOHM . 25W 1 MF T/R	
R406	A10266-3021	3.0 KOHM .25W 5 CF T/R	<u> </u>
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	<u> </u>
R408	A10266-1041	100. KOHM . 25W 5% CF25 T/R	<u>B 1</u>
R409	C 7779-9	22. OHM .25W 5% FU/FP T/R	<u>C 5</u>
R410	A10266-4711	470. OHM .25W 5% CF T/R	<u>C 5</u>
R411	A10266-4711	470. OHM .25W 5% CF T/R	C 5
R412	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
R413	A10266-4711	470. OHM .25W 5% CF T/R	C 5
R414	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
R415	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R416	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R417	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R418	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
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REF DE	SC.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM . 25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM .25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM .25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM .25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-2031	20. KOHM .25W 5 CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM .25W 5% CF25 T/R	<u> </u>
R456 R457	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
	A10266-1031	10. KOHM . 25W 5% CF T/R	<u> </u>
R458	A10266-2031	20. KOHM . 25W 5 CF T/R	E 4
R459 R460	A10265-10R01	10.0 OHM .25W 1 MF T/R	СЭ
R461	A10266-1211 C 6048-0	120. OHM .25W 5 CF T/R	СЗ
R462		500 OHM PIHER TRIM	
7463	A10265-10R01 A10265-30111	10.0 OHM .25W 1 MF T/R 3.01KOHM .25W 1 MF T/R	
7464	A10265-18221		СЭ
7465	A10265-30111		
R466	A10265-18221		С 3
3467	A10265-10011	18.2KOHM .25W 1% MF T/R 1.0 KOHM .25W 1 MF T/R	
7468	A10265-4711	470. OHM .25W 5% CF T/R	
7469	A10266-4711	470. OHM .25W 5% CF T/R	<u> </u>
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	<u> </u>
52	C 6781-6	6P3T MONO/STEREO SWITCH	
		STOR MONO/STENED SWITCH	
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U203 C 7558-7 MC33079P QUAD LOW NOISE OP AMP U204A 101375-1 2SC3381 DUAL NPN 80V SIP U206 C 6411-0 H11C2 OPTO SCR U207 C 4345-2 LM339N VOLT COMPARATOR U209 C 7636-1 MC33078P DUAL LOW NOISE OP AMP U102 SEE NOTE 10 U202 SEE NOTE 10 U203 SEE NOTE 10 U204 SEE NOTE 10 U204 SEE NOTE 10 U204 DO NOT INSTALL Z2 DO NOT INSTALL Z3 DO NOT INSTALL Z4 DO NOT INSTALL	MAP LOC. K 6 F 6 H 5 H 5 I 5 I 5 H 2 H 2 H 2 H 2 H 2 H 2 H 3 O 3 O 3 O 3 O 2 O 4 P 2 M 5 K 5
P100 C 6564-6 10P DBLROW UNSHRD HDR 87230-5 P200 C 6564-6 10P DBLROW UNSHRD HDR 87230-5 11X C 5095-2 MC7815CT +15V. REG 11X C 9494-3 HEATSINK. 70220 PLUG IN 2 C 5095-0 MC7915CT -15V. REG 12X C 9494-3 HEATSINK. 70220 PLUG IN 33 INSTALLED ON NEXT ASSEMBLY 13X C 3451-9 IC SOCKET. 8PIN DIP 2-640463-3 14 C 7636-1 MC33078P DUAL LOW NOISE OP AMP 15 102754-1 CD4060 14 STAGE BIN CNTR/OSC 1101 C 7444-0 LM393 DUAL COMPARATOR 1102 101374-1 2SA1349 DUAL PNP 80V SIP 1103 C 7558-7 MC33079P QUAD LOW NOISE OP AMP 1104 101375-1 2SC3381 DUAL NPN 80V SIP 1105 C 6411-0 H1122 OPTO SCR 1107 C 7444-0 LM393 DUAL COMPARATOR 1108 C 7558-7 MC33079P QUAD LOW NOISE OP AMP 1204 101375-1 2SC3381 DUAL NPN 80V SIP	F 6 H 5 H 5 I 5 I 5 H 2 H 2 H 2 F 6 H 6 J 3 O 3 O 3 O 2 O 4 P 2 M 5
1 C 5095-2 MC7815CT +15V. REG 1X C 9494-3 HEATSINK, T0220 PLUG IN 2 C 5096-0 MC7915CT -15V. REG 2X C 9494-3 HEATSINK, T0220 PLUG IN 3 INSTALLED ON NEXT ASSEMBLY 3X C 3451-9 IC SOCKET, 8PIN DIP 2-640463-3 4 C 7636-1 MC33078P DUAL LOW NOISE OP AMP 5 102754-1 CD4060 14 STAGE BIN CNTR/OSC 100 101651-1 MC33079N QUAD OP AMP SGS ONLY 1101 C 7444-0 LM393 DUAL COMPARATOR 1102A 101374-1 2SA1349 DUAL PNP 80V SIP 1103 C 7558-7 MC33079P QUAD LOW NOISE OP AMP 1104 101375-1 2SC3381 DUAL NPN 80V SIP 1105 C 4345-2 LM339N VOLT COMPARATOR 1109 C 7636-1 MC33078P DUAL LOW NOISE OP AMP 1200 101651-1 MC33079P QUAD LOW NOISE OP AMP 1200 101651-1 MC33079P QUAD LOW NOISE OP AMP 1201 C 7444-0 LM393 DUAL COMPARATOR 12020 I01375-1 2SC3381 DUAL NPN 80V SIP	H 5 H 5 I 5 I 5 H 2 H 2 F 6 H 6 J 3 O 3 O 2 O 4 P 2 M 5
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U104 SEE NOTE 10 U202 SEE NOTE 10 U204 SEE NOTE 10 Z1 DO NOT INSTALL Z2 DO NOT INSTALL Z3 DO NOT INSTALL Z4 DO NOT INSTALL	02
U202 SEE NOTE 10 U204 SEE NOTE 10 Z1 DO NOT INSTALL Z2 DO NOT INSTALL Z3 DO NOT INSTALL Z4 DO NOT INSTALL	P 2
U204SEE NOTE 10Z1DO NOT INSTALLZ2DO NOT INSTALLZ3DO NOT INSTALLZ4DO NOT INSTALL	A 2
Z1 DO NOT INSTALL Z2 DO NOT INSTALL Z3 DO NOT INSTALL Z4 DO NOT INSTALL	B 2
Z2 DO NOT INSTALL Z3 DO NOT INSTALL Z4 DO NOT INSTALL	C 1
Z3 DO NOT INSTALL Z4 DO NOT INSTALL	D 1
Z4 DO NOT INSTALL	D 1
	D 2
	D 2
For Reference Use Only CROWN INTERNATION 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	NAL INC

F	COMPONENT MAP (component side view)	F
E	BBB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 BB1-5 <td< th=""><th>E</th></td<>	E
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A	INACTIVE For Reference Use Only CROWN INTERNATIONAL INC. 1718 WEST MISHAWAKA ROAD ELKHART. INDIANA 46517 PHONE (219) 294-8888 PHONE (219) 294-8888 CONT. ON BUEST 22 8 7 6 5 4 3 2 1	v





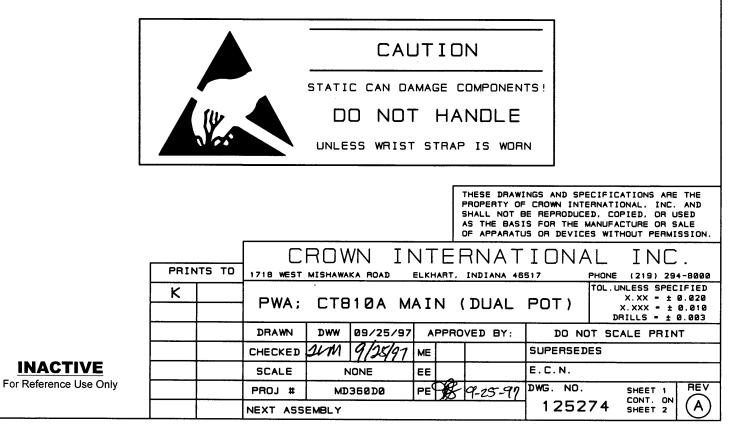
. . CT810A Main Module (Dual Pot) Information On Following Pages Documentation, Component Map

E.C.N.	ZONE	REV.	DESCRIPTION	DATE	BY	A CHK	PPR	DVAL	S PE
		A	INITIAL RELEASE	09/25/97	DWW	UM		6	R
<u> </u>									

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102768.
- 2. PWB PART NUMBER 125266-1.
- 3. PWA PART NUMBER 125274-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- 8. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 - 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES. ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. U102, U104, U202 AND U204 ARE ALTERNATE COMPONENT PARTS.
- 11. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



	PARTS LIS	5 T	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10001	100. OHM .25W 1 MF T/R	8	R181, R184, R195, R198, R281,
			R284, R295, R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467,
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100, R101, R102, R104, R160,
			R163, R178, R191, R200, R201,
			R202,R204,R260,R263,R278,
			R291
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219, R230, R231, R4, R7
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359, R362, R459, R462
A10265-11821	11.8 KOHM .25W 1% MF T/R	2	R108, R208
A10265-14321	14.3 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
		<u> </u>	R280, R292, R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
A40305 37404			R274, R5, R6
A10265-27401	274. OHM .25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-32421	32.4KOHM .25 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
<u>A10265-35711</u> A10265-35731	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-39731	357.KOHM .25W 1 MF T/R	2	R305, R405
A10265-46421	39.2KOHM .25W 1% MF T/R 46.4 KOHM .25W 1% MF T/R	2	R304, R404
A10265-49911			
A10205-45511	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
A10265-51121	51.1 KOHM .25W 1% MF T/R		R205, R206, R213, R223, R275,
A10203-51121	ST. I KUHM . 23W 1% MF 1/R	6	R182, R196, R282, R296, R329, R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM .25W 1 MF T/R	8	R142, R145, R146, R147, R242,
<u> </u>			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
A18265 60111			R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
A10265-1031	10. KOHM . 25W 5% CF T/R	19	R153, R156, R24, R253, R256,
X10200 1051	TE. KUTIWI . ZUW UZ CE TZA		
			R343, R345, R347, R348, R349, R352, R357, R443, R445, R447,
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	For Reference Use Only		NTERNATIONAL INC
E DRAWINGS AND SPECIF ERTY OF CROWN INTERN L NOT BE REPRODUCED. HE BASIS FOR THE MANN PPARATUS OR DEVICES N	ICATIONS ARE THE 1718 WEST MISHAWAKA F		ELKHART, INDIANA 46517 PHONE (219) 294-6 DWG. NO.
I NOT BE REPRODUCED	DRAWN DWW 09	/25/97	125274 SHEET 2 125374 SHEET 3

PARTS LIST					
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION		
			R448, R449, R452, R457		
A10266-1041	100. KOHM .25W 5% CF25 T/R	12	R148, R151, R20, R21, R248,		
			R251, R308, R325, R338, R408,		
			R425, R438		
A10266-1051	1.0 MOHM . 25W 5 CF T/R	5	R10, R17, R22, R8, R9		
A10266-1211	120. OHM . 25W 5 CF T/R	2	R360, R460		
A10266-1231	12.KOHM . 25W 5% CF T/R	4	R124, R125, R224, R225		
A10266-1321	1.3 KOHM . 25W 5 CF T/R	4	R122, R167, R222, R267		
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307, R323, R407, R423		
		f			
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272		
A10266-2031	20. KOHM .25W 5 CF T/R	6	R341, R351, R358, R441, R451,		
			R458		
A10266-2051	2.0 MOHM .25W 5 CF T/R	3	R23, R322, R422		
A10266-2201	_ 22.0 _ OHM .25W 5 CF T/R	6	R112,R135,R138,R212,R235,		
			R238		
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19		
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,		
			R227, R254, R257		
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419		
A10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299		
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431		
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406		
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421		
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442		
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,		
A10200 4701			R450		
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,		
A10200 4711	470. OHM . 25W 3% CF 17H	20			
			R315, R316, R317, R324, R368,		
			R369, R410, R411, R413, R415,		
		<u> </u>	R416, R417, R424, R468, R469,		
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,		
			R262		
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339, R344, R346, R353, R354,		
			R355,R356,R439,R444,R446,		
			R453, R454, R455, R456		
A10266-4741	470. KOHM .25W 5% CF T/R	2	R330, R430		
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220		
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326, R340, R426, R440		
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241		
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271		
A10266~5641	560. KOHM . 25W 5% CF T/R	1	R16		
A10266-6831	68. KOHM . 25W 5% CF T/R	4	R128, R129, R228, R229		
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327, R427		
		4	R136, R137, R236, R237		
A10266-8211					
A10266-8231	82. KOHM . 25W 5% CF T/R	2	R328, R428		
A10266-9111	910. OHM . 25W 5 CF T/R	1	R11		
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164, C264		
		 			
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			NTERNATIONAL INC.		
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	PARTS LIS	1	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
2 3181-2	DIODE, 1N4148 T/R	57	D10, D100, D101, D102, D103,
			D104, D105, D106, D107, D108,
			D109, D11, D111, D112, D115,
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134,
			D200, D201, D202, D203, D204,
			D205, D206, D207, D208, D209,
			D211, D212, D215, D216, D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234,D9
2 3451-9	IC SOCKET, BPIN DIP 2-640463	1	U3X
2 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
2 3578-9	MPSA93 200V PNP T/R	6	0104,0106,0130,0204,0206,
			0230
2 3625-8	2N4125 30V PNP T/R	22	0100.0101.0114.0116.0118.
			0120,0122,0123,0124,0125,
			0129,0200,0201,0214,0216,
			Q218,Q220,Q222,Q223,Q224,
			0225,0229
2 3786-8	MPS4250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
			0208,0211,0215
2 3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
- 4383-1			0227
	1000UF 35V AXIAL CAP	2	
C 4345-2 C 5061-4	LM339N VOLT COMPARATOR	2	U107, U207
- 5001-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
5062-2			D213, D214, D217
C 5082-0	DIODE, 1N4733A 5.1V ZENER T	4	
C 5095-2	MC7815CT +15V. REG	1	DB
C 5096-0	MC7915CT -15V. REG	1	
C 5215-6	22. MOHM .25W 5 THICK FILM T	1	
C 5311-3	22UF 50V 20% NP VERT T/A	4	R121, R164, R221, R264
		2	
C 5362-6 C 5891-4	2.2UF 50V VERT ELECT T/A MTS105 THERMAL SENSE T/R	3	
<u> 5891-4</u> 5 6048-0	500 OHM PIHER TRIM	4	Q107, Q110, Q207, Q210
- 6048-0 - 6411-0	H11C2 OPTO SCR	2	R361, R461
2 6564-6		2	
	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STERED SWITCH	1	S2
2 6802-0	.47UF 50V AXIAL CER T/R 474	6	C141, C145, C152, C241, C245,
2 6804-6	.1UF 50V AXIAL CER T/R 104	20	C134, C135, C136, C137, C138,
			C139,C144,C160,C161,C234,
	l		
		TN	TERNATIONAL INC
	1718 WEET MICHAWAKA D		
	CIFICATIONS ARE THE DRAWN DWW 09/ D. COPIED. OR USED ANUFACTURE OR SALE ANUFACTURE OR SALE S WITHOUT PERMISSION. PROJ. MD3601		LKHART, INDIANA 46517 PHONE (219) 294

	PARTS LIS	-	
C.P.N.	DESCRIPTION	ΩΤΥ	
		.	C235,C236,C237,C238,C239,
			C244,C267,C268,C3,C5
C 6805-3	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
			C216,C265,C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117,C124,C131,C217,C224,
			C231
C 6807-9	.001UF 100V 10% AXL CER T/R	4	C122, C123, C222, C223
C 6808-7	470.PF 100V 5% NPO AXL CER T	2	C120,C220
C 6810-3	180PF 100V AXIAL CER T/R 181	2	C121,C221
<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T	11	C126,C158,C159,C162,C163,
		<u> </u>	C226,C258,C259,C262,C263,
· · · · · · · · · · · · · · · · · · ·			C8
C 6812-9	47PF 200V 10% NPO AXL CER	16	C106,C110,C111,C112,C113,
			C114,C128,C133,C206,C210,
			C211,C212,C213,C214,C228,
			C233
C 6813-7	27PF 200V 10% NPO AXIAL CER	8	C100,C101,C102,C130,C200,
			C201,C202,C230
<u>C 6814-5</u>	12PF 200V AXIAL CER T/R 120	6	C118,C119,C129,C218,C219,
· · · · · · · · · · · · · · · · · · ·			C229
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127,C227
C 7444-0	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	12	Q113,Q117,Q119,Q121,Q126,
n 1			Q128,Q213,Q217,Q219,Q221,
			Q226,Q228
C 7526-4	3POS . 1 CENTER MTA HEADER	1	J1
C 7558-7	MC33079P QUAD LOW NOISE OP A	2	U103, U203
C 7597-5	J202 N-CHANNEL JFET	2	Q131,Q231
<u>C 7636-1</u>	MC33078P DUAL LOW NOISE OP A		U109,U209,U4
C 7779-9	22. OHM . 25W 5% FU/FP T/R	8	R309, R312, R314, R318, R409,
			R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	51
C 8182-5	1N753A 6.2V .5W ZENER DIODE	2	D120, D220
C 8576-8	100UF 35V 10% ALUM ELECT T/A	6	C105,C149,C150,C205,C249,
			C250
<u>C 8812-7</u>	5.5" CABLE TIE	4	HW10,HW7,HW8,HW9
<u>C 8836-6</u>	100 OHM .5W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/	11	C10,C109,C125,C132,C153,
			C209,C225,C232,C253,C6,
		ļ	C9
C 9079-2	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
C 9464-6	10PF 100V 5% NPO RAD CER T/R	2	C108,C208
<u>C 9494-3</u>	HEATSINK, TØ220 PLUG IN	2	U1X, U2X
<u>C 9857-1</u>	LED, RED T1 .1 LEAD SPACE T/	4	E100,E101,E200,E201
C10208-4	100.UF 25V 20% RAD ELECT T/R	5	С171,С172,С271,С272,С7,
<u>C10570-7</u>	20 PIN HDR PICOFLEX TIN	1	J2A
<u></u>			
		TN	
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CRIT OF CRUWN INTE	RNATIONAL INC. AND DRAWN DWW 109	25/97	DWG. NO. SHEET 5

		PA	ARTS LIS	ļ	
C. P. N.	DESCRIPTION			ΩΤΥ	REFERENCE DESIGNATION
C10571-5	18 PIN HDR PIC	OFLEX T	IN	1	J2B
C10587-1	220UF 25V 20%	NP RAD	ELECT T	4	C143, C148, C243, C248
C10588-9	15UF 35V 20% N	P RAD E	LECT T/	4	C142, C147, C242, C247
D 2961-7	SPS8010 60V NP	N T/R		2	Q102,Q202
D 2962-5	MPSA18 45V NPN	T/R		2	Q112,Q212
D 6082-8	RESISTOR NETWO	RK-C		2	N100, N200
D 8680-7	CABLE, 6 INCH	12 PIN	MTA	2	J701, J800
D 8681-5	CABLE, 10 INCH	12 PIN	MTA	2	J700, J801
100375-1	HDR, 14PIN, VE	····		1	X100L
101374-1	2SA1349 DUAL P		<u>ctp</u>	2	U102A, U202A
101375-1	25C3381 DUAL N			2	U104A, U204A
101651-1	MC33079N QUAD			2	
102754-1	CD4060 14 STAG			_	U100, U200
125263-1				1	U5
	5KOHM 10% LNR			2	R107, R207
125266-1	PWB, CT'10A MA	IN (DUA	L PUI)	1	1
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RTY OF CROWN INTE	RNATIONAL, INC. AND	DRAWN	DWW 09/		DWG. NO. SHEET 6

	T	PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
1	125266-1	PWB, CT'10A MAIN (DUAL POT)	
<u>C1</u>	C 4303-1	1000UF 35V AXIAL CAP	H 4
C2	C 4303-1	1000UF 35V AXIAL CAP	I 4
<u>C3</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	J 5
	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
C5	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
<u>C6</u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	<u>E 1</u>
<u>C7</u>	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
<u>C8</u>	C 6811-1	100PF 200V 10% NPO AXL CER T/R	E 6
<u>C9</u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	I 6
<u>C10</u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Н 5
<u>C100</u>	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 3
<u>C101</u>	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
C104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	<u>K 1</u>
C108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
<u>C109</u> C110	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
C111	C 6812-9 C 6812-9	47PF 200V 10% NPO AXL CER	К 2
		47PF 200V 10% NPO AXL CER	L 3
<u>C112</u> C113	C 6812-9 C 6812-9	47PF 200V 10% NPO AXL CER	L 2
C114	C 6812-9	47PF 200V 10% NPO AXL CER 47PF 200V 10% NPO AXL CER	L 3
C115	C 6805-3	.022UF 100V AXIALCER T/R 223	<u> </u>
C116	C 6805-3	.022UF 100V AXIALCER T/R 223	<u> </u>
C117	C 6806-1	.01UF 100V AXIAL CER T/R 103	L 2
C118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
C119	C 6814-5	12PF 200V AXIAL CER T/R 120	M 3
C120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
C121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
C122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
C123	C 6807-9	.001UF 100V 10% AXL CER T/R	0 5
C124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
C125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	κ 4
C126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	κ 4
C127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	<u>к 4</u>
C128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЗ
C130	C 6813-7	27PF 200V 10% NPO AXIAL CER	кз
C131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЗ
C132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЗ
C133	C 6812-9	47PF 200V 10% NPO AXL CER	кз
C134	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
C135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
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		CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS WN INTERNATIONAL, PRODUCED, COPIED, (THE MANUFACTURE (DEVICES WITHOUT PE		PHONE (219) 294- SHEET 7

		PARTS LIST	
REF DES	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION	MAP LOC.
C136	C 6804-6	.1UF 50V AXIAL CER T/R 104	02
C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
C138	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
C139	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
C140		DO NOT INSTALL	04
C141	C 6802-0	.47UF 50V AXIAL CER T/R 474	04
C142	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
<u>C144</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	Р3
<u>C145</u>	C 6802-0	.47UF 50V AXIAL CER T/R 474	P 4
C146		DO NOT INSTALL	P 4
C147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
C148	C10587-1	220UF 25V 20% NP RAD ELECT T/R	P 5
<u>C149</u>	C 8576-8	100UF 35V 10% ALUM ELECT T/A	М 5
C150	<u>C 8576-8</u>	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
C152	C 6802-0	. 47UF 50V AXIAL CER T/R 474	L 5
C153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
C156		DO NOT INSTALL	M 4
C157		DO NOT INSTALL	M 4
C158	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	N 4
C159	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	NЗ
C160	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 4
C161	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 3
C162	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	I 4
C163	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C164		.1UF 250V 5% MTL POLY FILM T/A	06
C171	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C200	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 3
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C202	<u>C 6813-7</u>	27PF 200V 10% NPO AXIAL CER	G 2
C205	C 8576-8	100UF 35V 10% ALUM ELECT T/A	<u>H 1</u>
C206	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
C207	<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	F 1
C208	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 2
C209	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	G 2
C210	C 6812-9	47PF 200V 10% NPO AXL CER	F 2
C211	C 6812-9	47PF 200V 10% NPO AXL CER	Е З
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
C213	C 6812-9	47PF 200V 10% NPO AXL CER	Е З
C214	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
C216	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
C217	C 6806-1	.01UF 100V AXIAL CER T/R 103	DЗ
C218	<u>C 6814-5</u>	12PF 200V AXIAL CER T/R 120	D 2
C219	C 6814-5	12PF 200V AXIAL CER T/R 120	DЗ
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	C.P.N.	DESCRIPTION	MAP LOC.
C220	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	<u>A 5</u>
C221	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222 C223	C 6807-9	.001UF 100V 10% AXL CER T/R	A 5
C224	C 6807-9 C 6806-1	.001UF 100V 10% AXL CER T/R .01UF 100V AXIAL CER T/R 103	85
C225	C 8897-8		F 4
C226	C 6811-1	.1UF 100V 20% Z5U RAD CER T/R 100PF 200V 10% NPO AXL CER T/R	F 4
C220	C 6950-7	B2PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	F 3
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C234	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 3
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C237	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 4
C240		DO NOT INSTALL	A 4
C241	C 6802-0	.47UF 50V AXIAL CER T/R 474	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	A 4
C244	C 6804-6	.1UF 50V AXIAL CER T/R 104	ВЗ
C245	C 6802-0	.47UF 50V AXIAL CER T/R 474	B 4
C246		DO NOT INSTALL	B 4
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	
C248	C10587-1	220UF 25V 20% NP RAD ELECT T/R	C 5
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C256		DO NOT INSTALL	D 4
C257		DO NOT INSTALL	D 4
C258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	C 4
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	СЗ
C262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	B 6
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	С З
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЗ
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
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REF DE	SC.P.N.	DESCRIPTION	MAP LOC.
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
DЭ	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
05	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
57	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
28	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
pa	C 3181-2	DIODE, 1N4148 T/R	Н 6
D10	C 3181-2	DIODE, 1N4148 T/R	Нб
D11	C 3181-2	DIODE, 1N4148 T/R	Н 6
012	C 3181-2	DIODE, 1N4148 T/R	Н 6
013	C 3181-2	DIODE, 1N4148 T/R	I 6
0100	C 3181-2	DIODE, 1N4148 T/R	К 2
D101	C 3181-2	DIODE, 1N4148 T/R	К 2
0102	C 3181-2	DIODE, 1N4148 T/R	L 3
0103	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 2
0104	<u>C 3181-2</u>	DIODE, 1N4148 T/R	М З
0105	<u>C 3181-2</u>	DIODE, 1N4148 T/R	М З
0106	<u>C 3181-2</u>	DIODE, 1N4148 T/R	M 3
0107	<u>C 3181-2</u>	DIODE, 1N4148 T/R	Е М
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
0109	<u>C 3181-2</u>	DIODE, 1N4148 T/R	M 2
D110 D111	C 5061-4 C 3181-2	DIODE, 1N3070 10K/T&R	<u>M 2</u>
$\frac{5111}{5112}$	C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	05 P5
D113	C 5061-4	DIODE, 1N4148 T/R DIODE, 1N3070 10K/T&R	<u> </u>
D114	C 5061-4	DIODE, 1N3070 10K/T&R	<u> </u>
D115	C 3181-2	DIODE, 1N4148 T/R	K 4
D116	C 3181-2	DIODE, 1N4148 T/R	КЭ
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	L L L
D119	C 3181-2	DIODE, 1N4148 T/R	J 3
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	C 3181-2	DIODE, 1N4148 T/R	L 5
D123	C 3181-2	DIODE, 1N4148 T/R	L 6
D124	C 3181-2	DIODE, 1N4148 T/R	L 6
D125	C 3181-2	DIODE, 1N4148 T/R	L 6
0127	C 3181-2	DIODE, 1N4148 T/R	L 6
0128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
0129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
0130	C 3181-2	DIODE, 1N4148 T/R	К 4
0131	C 3181-2	DIODE, 1N4148 T/R	КЗ
0132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D133	C 3181-2	DIODE, 1N4148 T/R	J 1
0134	C 3181-2	DIODE, 1N4148 T/R	J 2
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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
D200 D201	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	F 2
D201	C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	F 2
D202 D203	C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	E 3
D203	C 3181-2	DIODE, 1N4148 T/R	E 2 D 3
D201	C 3181-2	DIODE, 1N4148 T/R	
D206	C 3181-2	DIODE, 1N4148 T/R	DЭ
D207	C 3181-2	DIODE, 1N4148 T/R	<u>р</u> з рз
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	C 3181-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	C 3181-2	DIODE, 1N4148 T/R	B 5
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D213	C 5061-4	DIODE, 1N3070 10K/T&R	DЗ
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D217	<u>C 5061-4</u>	DIODE. 1N3070 10K/T&R	FЗ
D218	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 3
D219 D220	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D220 D221	C 8182-5 C 3181-2	1N753A 6.2V .5W ZENER DIODE DIODE, 1N4148 T/R	<u> </u>
D227	C 3181-2	DIODE, 1N4148 T/R	E 5 E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 1
D234	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 2
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E200 E201	C 9857-1 C 9857-1	LED, RED T1 .1 LEAD SPACE T/R LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	LED, RED T1 .1 LEAD SPACE T/R 5.5" CABLE TIE	D 5
HW8	C 8812-7	5.5" CABLE TIE	
HW9	C 8812-7	5.5" CABLE TIE	N 6
HW10	C 8812-7	5.5" CABLE TIE	P 6
J 1	C 7526-4	3POS .1 CENTER MTA HEADER	IG
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	Р 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6

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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	B 6
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, 14PIN, VERT, DOUBLE ROW	H 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	Е З
Q100	C 3625-8	2N4125 30V PNP T/R	К 2
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	K 2
Q102	D 2961-7	SPS8010 60V NPN T/R	M 4
Q103	C 3786-8	MPS4250A 40V PNP T/R	M 2
Q104	C 3578-9	MPSA93 200V PNP T/R	МЗ
Q105	C 3810-6	MPSA42 300V NPN T/R	M 2
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2
Q107	C 5891-4	MTS105 THERMAL SENSE T/R	05
Q108	C 3786-8	MPS4250A 40V PNP T/R	05
0109	C 3810-6	MPSA42 300V NPN T/R	M 4
Q110	C 5891-4	MTS105 THERMAL SENSE T/R	05
Q111	C 3786-8	MPS4250A 40V PNP T/R	05
Q112	D 2962-5	MPSA18 45V NPN T/R	K 4
Q113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	JЗ
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	0 1
Q117	C 7458-0	2N4123 30V NPN T/R	0 1
Q118	C 3625-8	2N4125 30V PNP T/R	М 5
Q119	C 7458-0	2N4123 30V NPN T/R	M 5
Q120	C 3625-8	2N4125 30V PNP T/R	M 4
Q121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
Q123	C 3625-8	2N4125 30V PNP T/R	M 5
0124	C 3625-8	2N4125 30V PNP T/R	M 4
Q125	C 3625-8	2N4125 30V PNP T/R	M 4
Q126	C 7458-0	2N4123 30V NPN T/R	L 4
Q127	C 3810-6	MPSA42 300V NPN T/R	K 4
Q128	C 7458-0	2N4123 30V NPN T/R	M 4
0129	C 3625-8	2N4125 30V PNP T/R	M 4
0130 0131	C 3578-9	MPSA93 200V PNP T/R	
	C 7597-5	J202 N-CHANNEL JFET	JG
0200 0201	C 3625-8	2N4125 30V PNP T/R	F 2
0202	C 3625-8	2N4125 30V PNP T/R	F 2
U202 0203	D 2961-7 C 3786-8	SPS8010 60V NPN T/R	D 4
u203 Q204	C 3578-9	MPS4250A 40V PNP T/R	D 2
u204 0205	C 3810-6	MPSA93 200V PNP T/R	DЗ
0206	C 3578-9	MPSA42 300V NPN T/R	
0207		MPSA93 200V PNP T/R	C 2
	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0208	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	D 4
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		PARTS LIST	·
REF DES		DESCRIPTION	MAP LOC.
0210	<u>C 5891-4</u>	MTS105 THERMAL SENSE T/R	A 5
0211	C 3786-8	MPS4250A 40V PNP T/R	85
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	<u> </u>
Q214	C 3625-8	2N4125 30V PNP T/R	G 3
Q215	C 3786-8	MPS4250A 40V PNP T/R	F 3
0216	C 3625-8	2N4125 30V PNP T/R	B 1
Q217	C 7458-0	2N4123 30V NPN T/R	B 1
Q218	C 3625-8	2N4125 30V PNP T/R	C 5
Q219	C 7458-0	2N4123 30V NPN T/R	C 5
0220	C 3625-8	2N4125 30V PNP T/R	C 4
0221	C 7458-0	2N4123 30V NPN T/R	C 4
0222	C 3625-8	2N4125 30V PNP T/R	C 4
0223	C 3625-8	2N4125 30V PNP T/R	D 5
0224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	<u>C 3810-6</u>	MPSA42 300V NPN T/R	F 4
0228	C 7458-0	2N4123 30V NPN T/R	D 4
0229	C 3625-8	2N4125 30V PNP T/R	D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
Q231	C 7597-5	J202 N-CHANNEL JFET	G 6
<u>R1</u>	A10265-46421		E 2
R2	A10265-53621		F 2
R4	A10265-10031	100. KOHM .25W 1 MF T/R	G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	<u>G 5</u>
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031	100. KOHM . 25W 1 MF T/R	F 5
RB	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R10 R11	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u>H 2</u>
		910. OHM . 25W 5 CF T/R	I 2
R12	A10124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	Нб
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 5
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 6
R16	A10266-5641	560. KOHM . 25W 5% CF T/R	G 6
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 6
R18 R19	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
R19 R20	A10266-2421 A10266-1041	2.4 KOHM .25W 5 CF T/R	E 6
R20 R21		100. KOHM .25W 5% CF25 T/R	E 6
R21	A10266-1041	100. KOHM .25W 5% CF25 T/R	E 6
R22	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u>н 5</u>
	A10266-2051	2.0 MOHM .25W 5 CF T/R	Н 5
R24	A10266-1031	10. KOHM . 25W 5% CF T/R	I 6
R25	A10265-10011	1.0 KOHM .25W 1 MF T/R	I 6
R100	A10265-10021	10. KOHM .25W 1 MF T/R	E L
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			ヘム エミヘム PHONE (219) 294-1
E DRAWINGS	ND SPECIFICATIONS AR MN INTERNATIONAL, INC PRODUCED, COPIED, OR U A THE MANUFACTURE OR DEVICES WITHOUT PERM	AND DRAWN DWW 09/25/97 DWG. NO.	SHEET 13

A102 A10265-10021 10. KOHM.25W 1 MF T/R J 3 A103 C 9079-2 200.OHM TOP ADJ CERMET TRIMMER I 2 A104 A10265-10021 10. KOHM.25W 1 MF T/R J 2 A105 A10265-49911 4.99KOHM.25W 1 MF T/R I 3 A106 A10265-49911 4.99KOHM.25W 1 MF T/R I 3 A106 A10265-49911 4.99KOHM.25W 1 MF T/R I 1 A109 A10265-49911 4.99KOHM.25W 1% MF T/R I 1 A109 A10265-24921 24.9 KOHM.25W 1% MF T/R I 1 A10265-24921 24.9 KOHM.25W 1% MF T/R I 1 A10265-24921 22.0 OHM.25W 1% MF T/R I 1 A110 A10265-24921 22.0 OHM.25W 1% MF T/R K 2 A112 A10265-10031 160. KOHM.25W 1 MF T/R K 2 A113 A10265-10031 160. KOHM.25W 1 MF T/R K 2 A114 A10265-10031 160. KOHM.25W 1 MF T/R I 4 A115 A10265-10031 100. KOHM.25W 1 MF T/R I 3 A116 A10265-10031 100. KOHM.25W 1 MF T/R I 3 A118 A10265-10231 10.7KOHM.25W 1 MF T/R<	REF DES	C.P.N.	DESCRIPTION	MAP LOC.
1103 C 9079-2 200. OHM TOP ADJ CERMET TRIMMER 1 1104 A10265-10021 10. KOHM. 25W 1 MF T/R J 1105 A10265-49911 4.99KOHM. 25W 1 MF T/R I 1107 125263-1 13. ISK. J.102. LINEAR W/21 DETENT J 1108 A10265-49911 4.99KOHM. 25W 12. MF T/R I I 1109 A10265-24921 24.9 KOHM. 25W 12. MF T/R I I 1110 A10265-24921 24.9 KOHM. 25W 12. MF T/R I I 1111 A10265-24921 24.9 KOHM. 25W 12. MF T/R K 2 112 A10265-24921 24.9 KOHM. 25W 12. MF T/R K 2 113 A10265-24921 24.9 KOHM. 25W 11. MF T/R K 2 114 A10265-12031 100. KOHM. 25W 11. MF T/R K 2 115 A10265-12031 100. KOHM. 25W 11. MF T/R K 2 116 A10265-12031 100. KOHM. 25W 11. MF T/R K 2 117 A10265-12031 100. KOHM. 25W 11. MF T/R K 2 118 A10265-12031 100. KOHM. 25W 11. MF T/R <t< td=""><td>R101</td><td>A10265-10021</td><td>10. KOHM.25W 1 MF T/R</td><td></td></t<>	R101	A10265-10021	10. KOHM.25W 1 MF T/R	
1104 A10265-10021 10. KOHM25W 1 MF T/R J 1105 A10265-49911 4.99KOHM25W 1 MF T/R I 1106 A10265-19911 4.99KOHM25W 1 MF T/R I 1108 A10265-1921 11.8 KOHM25W 1X MF T/R I I 1108 A10265-524921 24.9 KOHM25W 1X MF T/R I I 1111 A10265-524921 24.9 KOHM25W 1X MF T/R I I 1111 A10265-524921 22.4 9 KOHM25W 1X MF T/R I I 1111 A10265-524921 22.8 KOHM25W 1X MF T/R I I 1111 A10265-10031 160. KOHM25W 1X MF T/R I <t< td=""><td>R102</td><td>A10265-10021</td><td>10. KOHM.25W1 MF T/R</td><td>J 3</td></t<>	R102	A10265-10021	10. KOHM.25W1 MF T/R	J 3
1105 A10265-49911 4.99KOHM25W 1 MF T/R 1 1106 A10265-49911 4.99KOHM25W 1 MF T/R 1 1107 125263-1 13 1108 A10265-49911 1.9 SCHM25W 1X MF T/R 1 111 A10265-211021 11.9 KOHM25W 1X MF T/R 1 1110 A10265-24921 24.9 KOHM25W 1X MF T/R 1 1111 A10265-24921 24.9 KOHM25W 1X MF T/R X 1112 A10265-24921 24.9 KOHM25W 1X MF T/R X 1111 A10265-24921 24.9 KOHM25W 11 MF T/R K 112 A10265-24921 24.9 KOHM25W 11 MF T/R K 1131 A10265-16921 100. KOHM25W 11 MF T/R K 114 A10265-10621 100. KOHM25W 11 MF T/R K 117 A10265-10621 100. KOHM25W 11 MF T/R K 118 A10265-10621 100. KOHM.25W 51 CF T/R K 1122 A10265-10621 100. KOHM.25W 51 CF T/R K 1122 A10265-10621 100. KOHM.25W 51 CF T/R K 1122 A10265-10621 10.0 KOH	R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
1186 A18255-49911 4.99KDHM.25W1 MF T/R I 3 1187 125283-1 5K182X.LINEAR W/21 DETENT J 2 1188 A18255-18921 24.9 KOHM.25W1X MF T/R I 1 1199 A18255-524921 24.9 KOHM.25W1X MF T/R I 1 1111 A18255-524921 24.9 KOHM.25W1X MF T/R K 2 1112 A18255-24921 24.9 KOHM.25W1X MF T/R K 2 1111 A18255-24921 24.9 KOHM.25W1X MF T/R K 2 1112 A18265-24921 24.9 KOHM.25W1 MF T/R K 2 1114 A18265-18231 160. KOHM.25W1 MF T/R K 2 1115 A18265-18021 10.7KOHM.25W1X MF T/R I 3 1117 A18265-18021 10.7KOHM.25W5 CF T/R K 2 1120 A18265-18021 10.7KOHM.25W5 CF T/R K 2 1121 C 5215-6 22. MOHM.25W5 CF T/R K 2 1121 C 5215-6 22. MOHM.25W5 CF T/R K <td>R104</td> <td>A10265-10021</td> <td>10. KOHM.25W 1 MF T/R</td> <td>J 2</td>	R104	A10265-10021	10. KOHM.25W 1 MF T/R	J 2
A107 125263-1 5K. 108. LINEAR W/21 DETENT J 2 A108 A10265-11821 11.8 KOHM25W 1X.MF T/R I A108 A10265-2021 24.9 KOHM25W 1X.MF T/R I I A111 A10265-2021 24.9 KOHM25W 1X.MF T/R K Z A111 A10265-2031 22.0 OHM25W 1X.MF T/R K Z A112 A10265-19031 150 KOHM25W 1X.MF T/R K Z A114 A10265-19021 10.7 KOHM25W 1X.MF T/R K Z A114 A10265-19021 10.7 KOHM25W 1.MF T/R I 3 A115 A10265-19021 10.7 KOHM25W 1.MF T/R I 3 A117 A10265-10321 10.8 KOHM25W 1.MF T/R K 2 A118 A10265-10321 10.8 KOHM25W 5.CF T/R K 2 A1122 A10266-1321 1.3 KOHM25W 5.CF T/R K 2 A10266-	R105	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
110B A10265-11621 11.8 COHM. 25W 12. MF T/R I 110B A10255-56911 5.95 KOHM. 25W 12. MF T/R I I 1111 A10255-56921 24.9 KOHM. 25W 12. MF T/R K 2 1111 A10265-24921 24.9 KOHM. 25W 12. MF T/R K 2 1113 A10265-24921 24.9 KOHM. 25W 12. MF T/R K 2 1113 A10265-24921 24.9 KOHM. 25W 12. MF T/R K 2 1114 A10265-10031 100. KOHM. 25W 12. MF T/R K 2 115 A10265-10031 100. KOHM. 25W 12. MF T/R I 4 117 A10265-10221 10.7KOHM. 25W 12. MF T/R I 3 118 A10265-10231 100. KOHM. 25W 5 CF T/R K 2 1210 A10265-1321 11.8 KOHM. 25W 5 CF T/R K 2 1221 C 5215-6 22. MOHM. 25W 5 CF T/R K	7106	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
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A1102 A10265-69811 6.98 KOHM25W 1X MF T/R I A111 A10265-24921 24.9 KOHM25W 1X MF T/R K A112 A10265-24921 22.0 OHM25W MF T/R K 2 A113 A10265-10831 100 KOHM25W MF T/R K 2 A115 A10265-10831 100 KOHM25W MF T/R J 4 A115 A10265-10831 100 KOHM25W MF T/R J 4 A117 A10265-10831 100 KOHM25W MF T/R I 3 A118 A10265-10831 100 KOHM25W MF T/R K 2 A122 A10265-10831 100 KOHM25W MF T/R K 2 A121 C.521-56 22 MOHM25W MF T/R K 2 A122 A10265-1321 1.5 KOHM25W CF T/R K 2 A122	7108	A10265-11821		I 1
A1111 A10265-24921 24.9 KOHM25W 1% MF T/R K.2 A112 A10266-2201 22.0 OHM25W 15 CF T/R J 2 A113 A10265-49911 4.99KOHM25W 1 MF T/R K 2 A114 A10265-49031 100. KOHM25W 1 MF T/R K 2 A115 A10265-10031 100. KOHM25W 1 MF T/R I 4 A117 A10265-20031 200. KOHM25W 1 MF T/R I 4 A117 A10265-10031 100. KOHM25W 1 MF T/R I 3 A118 A10265-10031 100. KOHM25W 5 CF T/R K 2 A112 A10265-10031 100. KOHM25W 5 CF T/R K 2 A1122 A10266-1321 1.3 KOHM25W 5 CF T/R K 2 A122 A10266-1321 1.3 KOHM25W 5 CF T/R K 2 A122 A10266-131 12. KOHM25W 5 CF T/R L 3 A122 A10266-1231 12. KOHM25W 5 CF T/R L 2 A10266-1231 12. KOHM25W 5% CF T/R L 2 3 A10266-61231 12. KOHM25W 5% CF T/R L 3 3 A10266-61231 12. KOHM25W 5% CF T/R L 3 3 A10266-61231 12. K	7109			I 1
A112 A10266-2201 22.0 OHM. 25W 5 CF T/R J 2 A113 A10265-149311 4.99KOHM. 25W 1 MF T/R K 2 A114 A10265-15031 100. KOHM. 25W 1 MF T/R J 4 A115 A10265-16031 100. KOHM. 25W 1 MF T/R J 4 A115 A10265-10721 10.7KOHM. 25W 1 MF T/R J 4 A117 A10265-10031 100. KOHM. 25W 1 MF T/R J 4 A118 A10265-10031 100. KOHM. 25W 1 MF T/R K 2 A112 A10265-10031 100. KOHM. 25W 5 CF T/R K 2 A122 A10265-1321 1.3 SKOHM. 25W 5 CF T/R K 2 A121 C 5215-6 32. MOHM. 25W 5% CF T/R K 2 A122 A10265-1321 1.3 SOHM. 25W 5% CF T/R K 2 A122 A10265-1231 1.2 KOHM. 25W 5% CF T/R L 3 A122 A10265-1231 1.2 KOHM. 25W 5%	7110			I 1
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R114 A10265-10031 100. KOHM25W 1 MF T/R J R115 A10265-1021 10. KOHM25W 1X MF T/R J 4 R117 A10265-1021 10. KOHM25W 1X MF T/R I 3 R118 A10265-10221 10. KOHM25W 1X MF T/R I 3 R119 A10265-10221 10. KOHM25W 1X MF T/R I 3 R119 A10265-10221 10. KOHM25W 5 CF T/R K 2 R120 A10266-51021 10. KOHM25W 5 CF T/R K 2 R121 C 5215-6 22. MOHM25W 5 CF T/R K 2 R123 A10266-1321 1. KOHM25W 5% CF T/R L 2 R124 A10266-1321 12. KOHM25W 5% CF T/R L 2 R125 A10266-1231 12. KOHM25W 5% CF T/R L 2 R126 A10266-631 68. KOHM25W 5% CF T/R L 2 R126 A10266-631 68. KOHM25W 5% CF T/R L 2				
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A116 A10265-10721 10.7KOHM25W 1X.MF T/R 1 A117 A10265-20031 200.KOHM25W 1 MF T/R I 3 A119 A10265-10031 120.KOHM25W 1 MF T/R I 3 A119 A10265-10031 120.KOHM25W 1 MF T/R K 2 A10266-510031 120.KOHM25W 5 CF T/R K 2 A102265-1321 1.3 KOHM25W 5 CF T/R K 2 A102265-43911 4.99KOHM25W 5 CF T/R K 2 A10266-1321 1.2.KOHM25W 5% CF T/R L 2 A10266-1231 12.KOHM25W 5% CF T/R L 2 A10266-621 2.7 KOHM25W 5% CF T/R L 2 A10266-631 68.KOHM25W 5% CF T/R L 2 3 A10266-6431 68.KOHM.25W 5% CF T/R L 2 3 A10266-6431 108.KOHM.25W 5% CF T/R L 2				
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A118 A10265-10521 10.5K0HM25W 1X MF T/R 1.3 A119 A10265-10031 100. K0HM25W 1 MF T/R K.2 A120 A10266-13031 100. K0HM25W 5 CF T/R K.2 A121 C.5215-6 22. M0HM25W 5 CF T/R K.2 A122 A10266-1321 1.3 K0HM25W 5 CF T/R K.2 A122 A10266-1231 1.4.99K0HM25W 5 CF T/R L.3 A122 A10266-1231 12.K0HM25W 5% CF T/R L.3 A122 A10266-1231 12.K0HM25W 5% CF T/R L.3 A122 A10266-1231 12.K0HM25W 5% CF T/R L.3 A122 A10266-6831 68. K0HM.25W 5% CF T/R L.2 A123 A10266-6831 68. K0HM.25W 5% CF T/R L.3 A132 A10266-6131 108. K0HM.25W 5% CF T/R L.2 A133 A10266-6131 108. K0HM.25W 5% CF T/R L.2 A132 A10266-6101 <td></td> <td>······</td> <td></td> <td></td>		······		
A119 A10265-10031 100. KOHM .25W 1 MF T/R K 2 A120 A10266-5111 510. OHM .25W 5 CF T/R K 2 A121 C 5215-6 22. MOHM .25W 5 CF T/R K 2 A122 A10266-1321 1.3 KOHM .25W 5 CF T/R K 2 A123 A10265-49911 4.99KOHM .25W 5 CF T/R L 3 A124 A10266-1231 12. KOHM .25W 5% CF T/R L 3 A125 A10266-2721 2.7 KOHM .25W 5% CF T/R L 3 A129 A10266-6831 68. KOHM .25W 5% CF T/R L 3 A129 A10266-6831 100. KOHM .25W 5% CF T/R L 3 A130 A10266-4031 100. KOHM .25W 5% CF T/R L 2 A131 A10266-4701 47.0 OHM .25W 5% CF T/R L 2 A133 A102				
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REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R148	A10266-1041	100. KOHM .25W 5% CF25 T/R	P 5
R149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
R150	A10265-35711	3.57KOHM .25W 1 MF T/R	05
R151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
R152	C 8836-6	100 OHM .5W 5% FU/FP T/R	К 4
R153	A10266-1031	10. KOHM . 25W 5% CF T/R	К 4
R154	A10266-2721	2.7 KOHM . 25W 5 CF T/R	КЗ
R155	C 8836-6	100 OHM .5W 5% FU/FP T/R	КЗ
R156 R157	A10266-1031 A10266-2721	10. KOHM . 25W 5% CF T/R	КЗ
R158	A10266-3021	2.7 KOHM .25W 5 CF T/R 3.0 KOHM .25W 5 CF T/R	КЗ
R159	A10265-10011		ј 4 К З
R160	A10265-10021	10. KOHM . 25W 1 MF T/R	
R161	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
7162	A10266-4721	4.7 KOHM .25W 5% CF T/R	J3
3163	A10265-10021		L J 3
7164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
7165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
7166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
7168	A10124-24	WIRE, #24 SOLID BUS	КЗ
R169		274.KOHM .25W 1% MF T/R	J 2
7170		9.53KOHM .25W 1% MF T/R	J 2
<u>7171</u>	A10266-5621	5.6 KOHM .25W 5% CF T/R	Р 3
<u>7172</u>	A10266-1541	150. KOHM . 25W 5% CF T/R	03
7173 7174		17.8KOHM .25W 1% MF T/R 24.9 KOHM .25W 1% MF T/R	03
7174	A10265-49911		03
R176		6.81KOHM .25W 1% MF T/R	
7177		33.2KOHM .25W 1% MF T/R	04
7178		10. KOHM .25W 1 MF T/R	0 4
7179		2.0 KOHM .25W 1% MF T/R	03
7180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R181	A10265-10001	100. OHM .25W 1 MF T/R	02
7182	A10265-51121	51.1 KOHM .25W 1% MF T/R	02
7183	A10265-68111	6.81KOHM .25W 1% MF T/R	02
7184	A10265-10001	100. OHM .25W 1 MF T/R	02
7185	A10266-2741	270. KOHM .25W 5% CF25 T/R	02
7186	C 5062-2	100KOHM LINEAR TRIMPOT	02
R187	A10265-14321	14.3 KOHM .25W 1% MF T/R	04
7188 7189	A10265-32421	32.4KOHM .25 1% MF T/R	04
-190	A10265-19121 A10265-33221	19.1KOHM .25W 1% MF T/R 33.2KOHM .25W 1% MF T/R	
190 7191	A10265-10021		P 3
192	A10265-20011	10. KOHM .25W 1 MF T/R 2.0 KOHM .25W 1% MF T/R	<u>РЗ</u> РЗ
1193	A10265-20011	2.0 KOHM . 25W 1% MF T/R	P 4
7194	A10265-68111	6.81KOHM .25W 1% MF T/R	P 3
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- <u>11</u>	INAC		L
	For Reference	e Use Only CROWN INTERNATION	
DRAWINGS	AND SPECIFICATIONS ARE WN INTERNATIONAL, INC. PRODUCED, COPIED, OR L R THE MANUFACTURE OR S DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 I AND DRAWN DWW 09/25/97 DWG. NO.	PHONE (219) 294-

REE DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R195	A10265-10001		P 2
R196		51.1 KOHM .25W 1% MF T/R	P 2
R197		6.81K0HM .25W 1% MF T/R	P 2
R198	A10265-10001		P 2
R199	A10266-2741	270. KOHM . 25W 5% CF25 T/R	P 2
R200	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	H 1
R204	A10265-10021	10. KOHM.25W 1 MF T/R	G 2
R205	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R206	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R207	125263-1	5K, , 10%, LINEAR W/21 DETENT	F 2
R208	A10265-11821	11.8 KOHM .25W 1% MF T/R	Н 1
R209	A10265-24921	24.9 KOHM .25W 1% MF T/R	Н 1
R210	A10265-69811	6.98 KOHM .25W 1% MF T/R	H 1
7211	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 2
7212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
7213	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
7214	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
7215	A10265-15031	150 KOHM .25 1% MF T/R	G 4
7216	A10265-10721	10.7KOHM .25W 1% MF T/R	H 4
7217	A10265-20031	200.KOHM .25W 1 MF T/R	НЗ
7218	A10265-10521	10.5KOHM .25W 1% MF T/R	НЗ
7219	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
7220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
7221	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
7222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
7223	A10265-49911		F 2
7224	A10266-1231	12.KOHM .25W 5% CF T/R	Е З
7225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
7226	A10266-2721	2.7 KOHM .25W 5 CF T/R	Е З
7227	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
7228	A10266-6831	68. KOHM .25W 5% CF T/R	E 3
7229	A10266-6831	68. KOHM .25W 5% CF T/R	<u>E 3</u>
7230	A10265-10031	100. KOHM .25W 1 MF T/R	E 3
7231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
7232	A10266-4701	47.0 OHM .25W 5 CF T/R	E 4
7233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
7234	A10266-4711	470. OHM .25W 5% CF T/R	DЗ
7235	A10266-2201	22.0 OHM .25W 5 CF T/R	D 3
7236	A10266-8211	820. OHM . 25W 5% CF T/R	DЗ
7237	A10266-8211	820. OHM . 25W 5% CF T/R	D 2
7238	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
7239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
7240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
7241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
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	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR I R THE MANUFACTURE OR S DEVICES WITHOUT PERMI		PHONE (219) 294-

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R242		665. OHM .25W 1 MF T/R	B 5
R243	A10265-27401		A 5
R244	A10265-27401		85
R245	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R246	A10265-66501		B 5
R247	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
R249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
R250	A10265-35711	3.57KOHM .25W 1 MF T/R	B 5
R251	A10266-1041	100. KOHM .25W 5% CF25 T/R	В 5
R252	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 4
R253	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R254	A10266-2721	2.7 KOHM .25W 5 CF T/R	ЕЗ
R255	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 3
R256	A10266-1031	10. KOHM .25W 5% CF T/R	EЗ
R257	A10266-2721	2.7 KOHM .25W 5 CF T/R	EЗ
R258	A10266-3021	3.0 KOHM .25W 5 CF T/R	G 4
R259	A10265-10011	1.0 KOHM .25W 1 MF T/R	F 3
R260	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R261	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R263	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 3
R265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
R266	A10265-95311	9.53KOHM .25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
R270	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
7271	A10266-5621	5.6 KOHM .25W 5% CF T/R	В 3
7272		150. KOHM .25W 5% CF T/R	А Э
7273	A10265-17821	17.8KOHM .25W 1% MF T/R	A 3
7274	A10265-24921	24.9 KOHM .25W 1% MF T/R	AЗ
R275	A10265-49911	4.99KOHM .25W 1 MF T/R	A 3
7276	A10265-68111	6.81KOHM .25W 1% MF T/R	E A
7277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
7278	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
7279	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
7280	A10265-20011	2.0 KOHM . 25W 1% MF T/R	E A
7281	A10265-10001	100. OHM .25W 1 MF T/R	A 2
7282	A10265-51121	51.1 KOHM .25W 1% MF T/R	A 2
7283	A10265-68111	6.81KOHM .25W 1% MF T/R	A 2
7284	A10265-10001	100. OHM .25W 1 MF T/R	A 2
7285	A10266-2741	270. KOHM .25W 5% CF25 T/R	A 2
7286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
7287	A10265-14321	14.3 KOHM .25W 1% MF T/R	A 4
7288	A10265-32421	32.4KOHM .25 1% MF T/R	A 4
	INACT For Reference		
DRAWINGS	ND SPECIFICATIONS AR N INTERNATIONAL, INC PRODUCED, COPIED, OR		AL INL PHONE (219) 294-

		PARTS LIST	
	C.P.N.	DESCRIPTION	MAP LOC.
R289		19.1KOHM .25W 1% MF T/R	A 4
R290		33.2KOHM .25W 1% MF T/R	В 3
R291	A10265-10021		В 3
R292		2.0 KOHM .25W 1% MF T/R	B 4
R293		2.0 KOHM .25W 1% MF T/R	B 4
R294		6.81KOHM .25W 1% MF T/R	В 3
R295		100. OHM .25W 1 MF T/R	B 2
R296		51.1 KOHM .25W 1% MF T/R	B 2
R297		6.81KOHM .25W 1% MF T/R	B 2
R298		100. OHM .25W 1 MF T/R	B 2
R299	A10266-2741	270. KOHM .25W 5% CF25 T/R	B 2
R300		100KOHM LINEAR TRIMPOT	P 2
R301		14.3 KOHM .25W 1% MF T/R	P 4
R302		32.4KOHM .25 1% MF T/R	P 4
R303		19.1KOHM .25W 1% MF T/R	P 4
R304		39.2KOHM .25W 1% MF T/R	P 4
R305		357.KOHM .25W 1 MF T/R	P 4
R306		3.0 KOHM .25W 5 CF T/R	0 1
R307		1.5 KOHM .25W 5% CF T/R	0 1
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R	0 1
R309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R311	A10266-4711	470. OHM . 25W 5% CF T/R	N 5
R312	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM . 25W 5% CF T/R	N 4
R316	A10266-4711	470. OHM . 25W 5% CF T/R	N 4
R317	A10266-4711	470. OHM . 25W 5% CF T/R	N 4
R318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R319	A10266-2731		N 5
		3.3 KOHM .25W 5% CF T/R	L 5
R321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R322 R323	A10266-2051	2.0 MOHM .25W 5 CF T/R	к 5
	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
R324	A10266-4711	470. OHM . 25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM .25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
R327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
R328	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R330	A10266-4741	470. KOHM . 25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM .25W 5% CF T/R	L 5
R338	A10266-1041	100. KOHM . 25W 5% CF25 T/R	JG
R339	A10266-4731	47. KOHM . 25W 5% CF25 T/R	J 6
R340	A10266-5121	5.1 KOHM . 25W 5 CF T/R	L 6
R341	A10266-2031	20. KOHM .25W 5 CF T/R	L 6
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REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
7342	A10266-3921	3.9 KOHM .25W 5% CF T/R	L 5
7343	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
7344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	L 4
7345	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7346	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7347	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7348	A10266-1031	10. KOHM .25W 5% CF T/R	
7349	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7350	A10266-4701	47.0 OHM .25W 5 CF T/R	L 5
7351	A10266-2031	20. KOHM .25W 5 CF T/R	К 4
7352	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7353	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7354	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
355	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7356	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7357	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7358	A10266-2031	20. KOHM .25W 5 CF T/R	L 4
7359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
7360	A10266-1211	120. OHM .25W 5 CF T/R	N 4
7361	C 6048-0	500 OHM PIHER TRIM	N 4
7362	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
7363	A10265-30111	3.01KOHM .25W 1 MF T/R	N 3
7364	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
365	A10265-30111	3.01KOHM .25W 1 MF T/R	N 3
7366	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
7367	A10265-10011		N Э
7368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
7369	A10266-4711	470. OHM .25W 5% CF T/R	J 4
7400	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
7401		14.3 KOHM .25W 1% MF T/R	<u> </u>
7402		32.4KOHM .25 1% MF T/R	<u>B 4</u>
7403		19.1KOHM .25W 1% MF T/R	<u>B 4</u>
7404	A10265-39221	39.2KOHM .25W 1% MF T/R	<u>B 4</u>
7405	A10265-35731	357.KOHM .25W 1 MF T/R	<u> </u>
7406	A10266-3021 A10266-1521	3.0 KOHM .25W 5 CF T/R	<u>B 1</u>
7407 7408	A10266-1041	1.5 KOHM .25W 5% CF T/R 100. KOHM .25W 5% CF25 T/R	<u>B 1</u>
7409	C 7779-9	100. KOHM .25W 5% CF25 T/R 22. OHM .25W 5% FU/FP T/R	
7410	A10266-4711	470. OHM .25W 5% CF T/R	
7410 7411	A10266-4711	470. OHM .25W 5% CF T/R	C 5
7412	C 7779-9	22. OHM .25W 5% EU/FP T/R	
7413	A10266-4711	470. OHM .25W 5% CF T/R	
7414	C 7779-9	22. OHM .25W 5% FU/FP T/R	
3415	A10266-4711	470. OHM .25W 5% CF T/R	
7416	A10266-4711	470. OHM . 25W 5% CF T/R	
7417	A10266-4711	470. OHM . 25W 5% CF T/R	
7418	C 7779-9	22. OHM .25W 5% FU/FP T/R	
	INACTIV For Reference Use		
DRAWINGS	ND SPECIFICATIONS ARE NO INTERNATIONAL, INC. PRODUCED, COPIED, OR L THE MANUFACTURE OR S		PHONE (219) 294

REF DE	5 C.P.N.	DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM . 25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM . 25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM .25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM . 25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM .25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-2031	20. KOHM .25W 5 CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
7456	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
7458	A10266-2031	20. KOHM . 25W 5 CF T/R	<u>E 4</u>
7459	A10265-10R01	10.0 OHM .25W 1 MF T/R	СЗ
7460	A10266-1211	120. OHM .25W 5 CF T/R	СЗ
<u>7461</u>	C 6048-0	500 OHM PIHER TRIM	<u> </u>
7462	A10265-10R01	10.0 OHM .25W 1 MF T/R	<u> </u>
7463	A10265-30111	3.01KOHM .25W 1 MF T/R	СЗ
7464	A10265-18221	18.2KOHM .25W 1% MF T/R	<u>сз</u>
7465	A10265-30111	3.01KOHM .25W 1 MF T/R	<u>сз</u>
7466	A10265-18221	18.2KOHM . 25W 1% MF T/R	СЗ
R467	A10265-10011	1.0 KOHM .25W 1 MF T/R	СЗ
7468	A10266-4711	470. OHM .25W 5% CF T/R	G 4
7469	A10266-4711	470. OHM . 25W 5% CF T/R	<u> </u>
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	<u>I 1</u>
52	C 6781-6	6P3T MONO/STEREO SWITCH	<u>C 1</u>
			L
	***************************************	CROWN INTERNATION	AL INC
DRAWINGS	AND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 F	

REF DES	C.P.N	DESCRIPTION	MAP LOC.
TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	K 6
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
U1	C 5095-2	MC7815CT +15V. REG	Н 5
	C 9494-3	HEATSINK, TØ22Ø PLUG IN	H 5
U2	C 5096-0	MC7915CT -15V. REG	I 5
U2X	C 9494-3	HEATSINK, TØ22Ø PLUG IN	I_5
U3		INSTALLED ON NEXT ASSEMBLY	Н 2
U3X	C 3451-9	IC SOCKET, BPIN DIP 2-640463-3	H 2
U4	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	F 6
U5	102754-1	CD4060 14 STAGE BIN CNTR/OSC	н б
U100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J_3
U101	C 7444-0	LM393 DUAL COMPARATOR	03
U102A	101374-1	2SA1349 DUAL PNP 80V SIP	0 2
U103	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	
U104A	101375-1	2SC3381 DUAL NPN 80V SIP	
U104A U106	C 6411-0		P 2
		H11C2 OPTO SCR	<u>M 5</u>
U107 U109	C 4345-2 C 7636-1	LM339N VOLT COMPARATOR	<u> </u>
		MC33078P DUAL LOW NOISE OP AMP	<u>N 3</u>
U200	101651-1	MC33079N QUAD OP AMP SGS ONLY	<u> </u>
U201	C 7444-0	LM393 DUAL COMPARATOR	<u> </u>
U202A	101374-1	2SA1349 DUAL PNP 80V SIP	A 2
U203	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	A 4
U204A	101375-1	2SC3381 DUAL NPN 80V SIP	B 2
U206	C 6411-0	H11C2 OPTO SCR	D 5
U207	C 4345-2	LM339N VOLT COMPARATOR	F 5
U209	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В 3
U102		SEE NOTE 10	0 2
U104		SEE NOTE 10	P 2
U202		SEE NOTE 10	A 2
U204		SEE NOTE 10	B 2
Z1		DO NOT INSTALL	<u> </u>
Z2		DO NOT INSTALL	D 1
Z3		DO NOT INSTALL	D 1
Z4		DO NOT INSTALL	D 2
Z5		DO NOT INSTALL	D 2
	101/	ACTIVE	
		rence Use Only CROWN INTERNATION	JNAL INC
	ND SPECIFICATIONS	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

8	7	6	5	DWG. NO. 125274
				INENT MAP ent side view)
	D 8681-5 D 8680	-7 SEE NOTE 9		SEE NOTE 7
	$\begin{array}{c ccccc} & & & & & & & & & & \\ \hline & & & & & & & &$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		СТВ - R22 - - R23 - - R23 - - R23 - - R23 - - R371 - - R37
3 2 	$\begin{array}{c} C241 \\ \hline C238 \\ - R278 \\ - R277 \\ - R279 \\ - R274 \\ - R273 \\ - R274 \\ - R298 \\ - \\ - R294 \\ - \\ - R295 \\ - \\ - \\ - R294 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $	$ \begin{array}{c} \left[\begin{matrix} \ddot{a} \\ \ddot{b} \end{matrix} \right] - R236 - \left[\begin{matrix} \ddot{b} \\ \ddot{b} \end{matrix} \right] \\ - C219 \\ - C219 \\ - C215 \\ - C215 \\ - R238 - C233 \\ - R224 - R224 \\ - R224 - R257 \\ - R225 \\ - C211 \\ - R256 \\ - R255 \\ - R226 \\ - R256 \\ $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
1	$\left(\begin{array}{c} \left[\begin{matrix} \overline{x} \\ \overline{x} \end{matrix}\right] - \frac{R485}{R487} - \left[\begin{matrix} \overline{x} \\ \overline{x} \end{matrix}\right]\right) - \frac{R485}{R487} - \left[\begin{matrix} \overline{x} \\ \overline{x} \end{matrix}\right]$		+ C2271 (C205) - R2	218 - 51 - R118 - 289 R189 - C185 - C171 288 R188 - C185 - C171 - R188 D-D133

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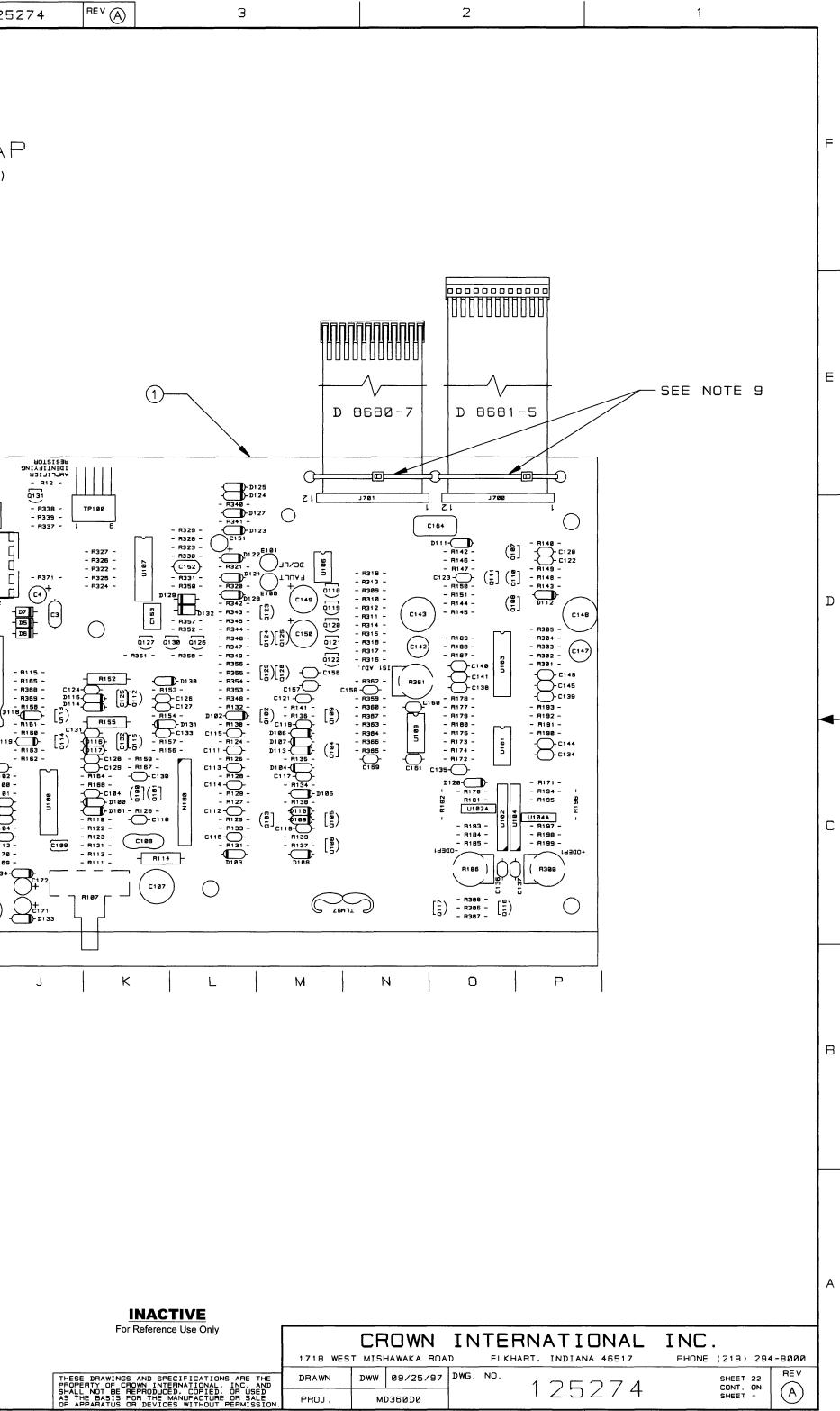
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CT1610 Main Module Information On Following Pages Documentation, Component Map, Schematic

CROV	VN I	NTE	RN	ATI	ON		Reference l	Jse Only	10	302	98
REVISION				C TITLE: PWA; CT1610 MAIN		N	PRINT	S	к		
MADE BY	TOM S	ZERENC	SE						SHEET	NO.	1
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PROJ.	I	0360		FIRST N	ADE FO	R: CT1	Ø SER	IES	DRAWN		TLM
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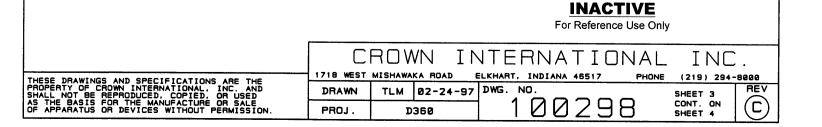
CROV	VN I	NTER	NATI	DNAL INACTIVE For Reference Use Only	1002	98
REVISION		С	TITLE: PV	VA; CT1610 MAIN	PRINTS	к
MADE BY	том 9	6ZERENCSE			SHEET NO.	2
DATE	02	24-97			CONT.ON SH	3
PROJ.		D360	FIRST MA	DE FOR: CT10 SERIES	DRAWN	TLM
NAM	ΛE		SION CON	ACTION		
PAT W	IERS	1-24	Α	INITIAL RELEASE		
TOM SZE	RENCSE	1-4, 8,15,17	В	INITIAL RELEASE OF 100298-2. Resorted Part Numbers to Match As40 R107 and R207 were C 9785-4.	Ø BILL.	
TOM SZE	RENCSE	1-24	C	INITIAL RELEASE OF 100298-3. C155 & R115 & R215 WERE 274K, R116 & R216 R333 & R433 WERE 665, R335 & R435 W R336 & R436 WERE 220, J000 WAS D BE C170 & C270 WERE 0.0047, C155 & C2E U100 & U200 WERE C 7558-7. ADDED C171, C172, C271, C272 100MFI ADDED C173 AND C273 10MFD 16V ELECT ADDED R371 & R471 10KOHM 1/4W. ADDE ADDED D133, D134, D233 AND D234 1N4	WERE 9.53K, WERE 1MOHM, C1 WAS 181-5, J801 WAS D8 15 WERE 4.7 63V LY 0 25V ELECTROLYTIC ROLYTICS. D D135 & D235 1N9	C 3913-8, 580-7, TIC, 5.

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 100299.
- 2. PWB PART NUMBER 100291-2.
- 3. PWA PART NUMBER 100298-3.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- 8. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. U102A, U104A, U202A AND U204A ARE ALTERNATE COMPONENT PARTS.
- 11. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.





	PARTS LIS	<u>5 T</u>	
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359, R362, R459, R462
A10265-10001	100. OHM .25W 1 MF T/R	8	R181, R184, R195, R198, R281,
			R284, R295, R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	6	R159, R259, R336, R367, R436,
			R467
A10265-10021	10. KOHM .25W 1 MF T/R	20	R100, R101, R102, R104, R160,
			R163, R178, R191, R200, R201,
			R202, R204, R260, R263, R278,
			R291,R337,R371,R437,R471,
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219, R230, R231, R4, R7
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-14721	14.7 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM 25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364, R366, R464, R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
			R280,R292,R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
			R274,R5,R6
A10265-27401	274. OHM . 25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-28701	287. OHM .25W 1% MF T/R	2	R333, R433
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-30921	30.9 KOHM .25W 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305,R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304, R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-49931	499KOHM .25W 1% MF T/R	2	R332, R432
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM .25W 1 MF T/R	8	R142, R145, R146, R147, R242,
			R245,R246,R247
410265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
			R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-76811	7.68 KOHM .25W 1% MF T/R	2	R108, R208
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
		TN	TERNATIONAL INC
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CRIT OF LROWN INTERNA			

	PARTS LIS	T	
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10434-104JD	.1UF 250V 5% MTL POLY FILM T		C164, C264
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	52	D100, D101, D102, D103, D104,
·····			D105, D106, D107, D108, D109,
			D111, D112, D115, D116, D118,
			D119, D121, D122, D123, D124,
			D125, D127, D130, D131, D133,
			D134, D200, D201, D202, D203,
			D204, D205, D206, D207, D208,
			D209, D211, D212, D215, D216,
			D218, D219, D221, D222, D223,
			D224, D225, D227, D230, D231,
			D233, D234
<u>C 3451-9</u>	IC SOCKET, 8PIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3549-0	DIODE, 1N961B 10V ZENER T/R	2	D135, D235
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			Q230
C 3625-8	2N4125 30V PNP T/R	22	Q100,Q101,Q114,Q116,Q118,
			Q120,Q122,Q123,Q124,Q125,
			Q129,Q200,Q201,Q214,Q216,
			Q218,Q220,Q222,Q223,Q224,
			Q225,Q229
<u>C 3786-8</u>	MPS4250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
			Q208,Q211,Q215
C_3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			Q227
C 4019-3	4.7UF 35V 10% TANT CAP	2	C155, C255
C 4303-1	1000UF 35V AXIAL CAP	2	C1, C2
C 4345-2	LM339N VOLT COMPARATOR	2	U107,U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T	1	DB
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096-0	MC7915CT -15V. REG	1	U2
C 5215-6	22. MOHM .25W 5 THICK FILM T	4	R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107,C207
C 5362-6	2.2UF 50V VERT ELECT T/A	З	C151,C251,C4
C 5891-4	MTS105 THERMAL SENSE T/R	4	0107,0110,0207,0210
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
C 6411-0	H11C2 OPTO SCR	2	U106,U206
C 6564-6	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STEREO SWITCH	1	52
C 6802-0	.47UF 50V AXIAL CER T/R 474	6	C152, C154, C169, C252, C254,

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OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	D360	I IUUZ38	SHEET 7 (D)

	PARTS LIS	Ť	
. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
10266-1031	10. KOHM .25W 5% CF T/R	18	R153, R156, R253, R256, R343
			R345, R347, R348, R349, R352
			R357, R443, R445, R447, R448
			R449, R452, R457
10266-1041	100. KOHM . 25W 5% CF25 T/R	10	R148, R151, R248, R251, R308
			R325, R338, R408, R425, R438
10266-1051	1.0 MOHM .25W 5 CF T/R	3	R10, R8, R9
10266-1211	120. OHM .25W 5 CF T/R	2	R360, R460
10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307, R323, R407, R423
10266-1541	150. KOHM . 25W 5% CF T/R	2	R172, R272
10266-1831	18. KOHM . 25W 5% CF T/R	4	R334,R370,R434,R470
10266-2031	20. KOHM .25W 5 CF T/R	6	R341, R351, R358, R441, R451
			R458
10266-2051	2.0 MOHM .25W 5 CF T/R	4	R322, R335, R422, R435
10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235
			R238
10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226
			R227, R254, R257
10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299
10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431
10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
10266-3921	3.9 KOHM . 25W 5% CF T/R	2	R342, R442
10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350
			R450
10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313
		0	R315, R316, R317, R324, R368
			R369, R410, R411, R413, R415
			R416, R417, R424, R468, R469
10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261
		0	R262
10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339, R344, R346, R353, R354
			R355, R356, R439, R444, R446
			R453, R454, R455, R456
10266-4741	470. KOHM .25W 5% CF T/R	2	R330, R430
10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
10266-5121	5.1 KOHM . 25W 5 CF T/R	4	R326, R340, R426, R440
10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
10266-5621	5.6 KOHM . 25W 5% CF T/R	2	R171, R271
10266-6831	68. KOHM .25W 5% CF T/R	 	
10266-7521	7.5 KOHM .25W 5% CF T/R	4	R128, R129, R228, R229
10266-8211	820. OHM .25W 5% CF T/R		R327, R427
10266-8231		4	R136, R137, R236, R237
10266-9111	82. KOHM .25W 5% CF T/R 910. OHM .25W 5 CF T/R		R328, R428
10200 3111	JID. UHMI. ZUW D LE I/R	1	<u>R11</u>

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AS THE BASIS FOR THE MANUFACTURE OR SALE of Apparatus or devices without permission.	PROJ.	D360	7 100	CONT. ON B

	PARTS LIS		
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
		1	C269
C 6804-6	.1UF 50V AXIAL CER T/R 104	24	C134, C135, C136, C137, C138,
			C139, C141, C144, C145, C160,
			C161, C234, C235, C236, C237,
· · · · · · · · · · · · · · · · · · ·			C238, C239, C241, C244, C245,
C 6805-3		<u> </u>	C267, C268, C3, C5
6 689-3	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
			C216,C265,C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117,C124,C131,C217,C224,
			C231
C 6807-9	.001UF 100V 10% AXL CER T/R	4	C122, C123, C222, C223
C 6808-7	470.PF 100V 5% NPO AXL CER T	2	C120, C220
<u>C 6810-3</u>	180PF 100V AXIAL CER T/R 181	2	C121, C221
C 6811-1	100PF 200V 10% NPO AXL CER T	10	C126, C158, C159, C162, C163,
			C226, C258, C259, C262, C263,
C 6812-9	47PF 200V 10% NPO AXL CER	16	C106, C110, C111, C112, C113,
			C114, C128, C133, C206, C210,
			C211, C212, C213, C214, C228,
C CO12 7			C233
<u>C 6813-7</u>	27PF 200V 10% NPO AXIAL CER	8	C100,C101,C102,C130,C200,
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118, C119, C129, C218, C219,
			C229
C 6910-1	UPA74HA/UPA76HA NPN XSISTOR	2	U104, U204
C 6911-9	UPA75HA/UPA77HA DUAL XSISTOR		U102, U202
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127, C227
C 7444-0	LM393 DUAL COMPARATOR		
C 7458-0	2N4123 30V NPN T/R	4	U101,U108,U201,U208
	2N4123 30V NPN 17R	12	Q113,Q117,Q119,Q121,Q126,
		ļ	Q128,Q213,Q217,Q219,Q221,
		ļ	Q226,Q228
C 7526-4	3POS .1 CENTER MTA HEADER	1	J 1
C 7558-7	MC33079P QUAD LOW NOISE OP A	2	U103,U203
<u>C 7597-5</u>	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1	MC33078P DUAL LOW NOISE OP A	2	U109,U209
C 7779-9	22. OHM . 25W 5% FU/FP T/R	8	R309, R312, R314, R318, R409,
			R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	S1
C 7964-7	.22UF 100V AXIAL CER CAP T/R		
C 8182-5	1N753A 6.2V .5W ZENER DIODE	4	C140, C146, C240, C246
C 8576-8		2	D120, D220
L 03/0-8	100UF 35V 10% ALUM ELECT T/A	6	C105,C149,C150,C205,C249,
		 	C250
C 8750-9	10UF 16V NP ELECTROLYTIC	2	C173,C273
C 8812-7	5.5" CABLE TIE	4	HW10, HW7, HW8, HW9
C 8836-6	100 OHM .5W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/	9	C109, C125, C132, C153, C209,
			C225, C232, C253, C6
C 9079-2	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
C 9238-4	.0027UF 100V AXIAL CER T/R	2	
C 9464-6			C170, C270
	10PF 100V 5% NPO RAD CER T/R	2	C108, C208
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	PARTS LIS	ST.	
C. P. N.	DESCRIPTION	ατγ	REFERENCE DESIGNATION
C 9494-3	HEATSINK, TØ220 PLUG IN	2	
C 9857-1	LED, RED T1 .1 LEAD SPACE T/		E100,E101,E200,E201
C10208-4	100.UF 25V 20% RAD ELECT T/R		
			C171, C172, C271, C272
C10570-7	20 PIN HDR PICOFLEX TIN	1	JZA
C10571-5	18 PIN HDR PICOFLEX TIN	1	J2B
C10587-1	220UF 25V 20% NP RAD ELECT T	_	C143, C148, C243, C248
C10588-9	15UF 35V 20% NP RAD ELECT T/	4	C142,C147,C242,C247
D 2961-7	SPS8010 60V NPN T/R	2	0102,0202
D 2962-5	MPSA18 45V NPN T/R	2	0112,0212
D 6082-8	RESISTOR NETWORK-C	2	N100, N200
D 8680-7	CABLE, 6 INCH 12 PIN MTA	2	J701, J800
D 8681-5	CABLE, 10 INCH 12 PIN MTA	2	J700, J801
100291-2	PWB, CT10 MAIN, , ,		
		1	1
100375-1	HDR, 14PIN, VERT, DOUBLE	1	J901X
101051-1	5KOHM 10% LNR 21 DNT POT .1	2	R107, R207
101651-1	MC33079N QUAD OPAMP SGS ONLY	2	U100,U200
		1	
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REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
1	100291-2	PWB; CT10 MAIN, , ,	
C1	C 4303-1	1000UF 35V AXIAL CAP	Н 4
C2	C 4303-1	1000UF 35V AXIAL CAP	I 4
СЗ	C 6804-6	.1UF 50V AXIAL CER T/R 104	J 5
C4	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
C5	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
C6	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
C100	C 6813-7	27PF 200V 10% NPO AXIAL CER	E L
C101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
C104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	К 1
C108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
C109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
C110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
C111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
C112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
2113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
2116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
2117	C 6806-1	.01UF 100V AXIAL CER T/R 103	МЗ
2118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
2119	C 6814-5	12PF 200V AXIAL CER T/R 120	МЗ
2120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
2121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
2122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
2123	C 6807-9	.001UF 100V 10% AXL CER T/R	05
2124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
2125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 4
2126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	К 4
2127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	К 4
2128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
2129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЗ
2130	C 6813-7	27PF 200V 10% NPO AXIAL CER	КЗ
2131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЗ
2132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЗ
2133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
2134	C 6804-6	.1UF 50V AXIAL CER T/R 104	Р 3
2135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
2136	C 6804-6	.1UF 50V AXIAL CER T/R 104	02
2137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
2138	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
2139	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
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			1
	INA		
		INCE USE ONLY CROWN INTERNATION	PHONE (219) 294-
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	C.P.N.	PARTS LIST DESCRIPTION	
1140	C 7964-7	.22UF 100V AXIAL CER CAP T/R	MAP LOC.
2140 2141	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2142	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
2143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
2144	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
2145	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
C146	C 7964-7	.22UF 100V AXIAL CER CAP T/R	P 4
2147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
2148	C10587-1	220UF 25V 20% NP RAD ELECT T/R	P 5
2149	C 8576~8	100UF 35V 10% ALUM ELECT T/A	М 5
2150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
2152	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 5
2153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
2154	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 6
2155	C 4019-3	4.7UF 35V 10% TANT CAP	J 5
2156		DO NOT INSTALL	M 4
C157		DO NOT INSTALL	M 4
2158	C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 4
C159	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	N 3
2160	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 4
	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 3
<u>162</u>	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	<u> </u>
	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	<u>I 4</u>
		.1UF 250V 5% MTL POLY FILM T/A	0.6
	C 6802-0	.47UF 50V AXIAL CER T/R 474	<u> </u>
C170	C 9238-4 C10208-4	.0027UF 100V AXIAL CER T/R 100.UF 25V 20% RAD ELECT T/R	
2172	C10208-4	100.UF 25V 20% RAD ELECT T/R 100.UF 25V 20% RAD ELECT T/R	J_1
2172	C 8750-9	10UF 16V NP ELECTROLYTIC	J_1
200	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 5 G 3
200	C 6813-7	27PF 200V 10% NPO AXIAL CER	<u> </u>
202	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
205	C 8576-8	100UF 35V 10% ALUM ELECT T/A	H 1
206	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
207	C 5311-3	22UF 50V 20% NP VERT T/A	F 1
208	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 2
209	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	G 2
210	C 6812-9	47PF 200V 10% NPO AXL CER	F 2
2211	C 6812-9	47PF 200V 10% NPO AXL CER	Е З
212	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
213	C 6812-9	47PF 200V 10% NPO AXL CER	Е З
214	C 6812-9	47PF 200V 10% NPO AXL CER	Е З
215	C 6805-3	.022UF 100V AXIALCER T/R 223	Е З
216	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
2217	C 6806-1	.01UF 100V AXIAL CER T/R 103	DЗ
218	C 6814-5	12PF 200V AXIAL CER T/R 120	D 2
	INACT		
· • • • • • • • • • • • • • • • • • • •	For Reference	CROWN INTERNATION	
DRAWINGS	AND SPECIFICATIONS AR	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

REF DES		PARTS LIST	
REF DES C219	L.P.N. C 6814-5	DESCRIPTION	MAP LOC.
219	C 6808-7	12PF 200V AXIAL CER T/R 120	D 3
C221	C 6810-3	470.PF 100V 5% NPO AXL CER T/R	A 5
2221	C 6807-9	180PF 100V AXIAL CER T/R 181	D 4
C223	C 6807-9	.001UF 100V 10% AXL CER T/R .001UF 100V 10% AXL CER T/R	A 5
_ <u></u> 	C 6806-1	.01UF 100V 10% AXL LER 1/R	<u> </u>
_ <u></u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1		F 4
C227	C 6950-7	100PF 200V 10% NPO AXL CER T/R 82PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 4
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3 F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	F 3
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	
233	C 6804-6	.1UF SØV AXIAL CER T/R 104	F 3
235	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 3 A 3
2236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3 A 2
2230	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
2237	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2230	C 6804-6	.1UF 50V AXIAL CER T/R 104	1
2233	C 7964-7	.22UF 100V AXIAL CER CAP T/R	
241	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	A 4
244	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2245	C 6804-6	. 1UF 50V AXIAL CER T/R 104	B 3 B 4
246	C 7964-7	. 22UF 100V AXIAL CER CAP T/R	B 4
2247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	
2248	C10587-1	220UF 25V 20% NP RAD ELECT T/R	C 5
249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D_5
2250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D_5 D_4
2251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
2252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
2253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
2254	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 6
2255	C 4019-3	4.7UF 35V 10% TANT CAP	G 5
2256		DO NOT INSTALL	D 4
257		DO NOT INSTALL	D 4
258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	
259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	
262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	86
265	C 6805-3	.022UF 100V AXIALCER T/R 223	<u> </u>
266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
267	C 6804-6	. 1UF 50V AXIAL CER T/R 104	C 3
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	·	PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C268	C 6804-6	. 1UF 50V AXIAL CER T/R 104	СЗ
C269	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 6
C270	C 9238-4	.0027UF 100V AXIAL CER T/R	E 6
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
C273	C 8750-9	10UF 16V NP ELECTROLYTIC	G 6
D1	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D2	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
D5	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	J 4
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
D8	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
D100	<u>C 3181-2</u>	DIODE, 1N4148 T/R	К 2
D101	<u>C 3181-2</u>	DIODE, 1N4148 T/R	K 2
D102	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 3
D103	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 2
D104	<u>C 3181-2</u>	DIODE, 1N4148 T/R	М З
D105	<u>C 3181-2</u>	DIODE, 1N414B T/R	М З
D106	<u>C 3181-2</u>	DIODE, 1N4148 T/R	М З
D107	<u>C 3181-2</u>	DIODE, 1N4148 T/R	М З
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
D109	C 3181-2	DIODE, 1N4148 T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	05
D112	<u>C 3181-2</u>	DIODE, 1N4148 T/R	P 5
D113	C 5061-4	DIODE, 1N3070 10K/T&R	МЗ
D114	C 5061-4	DIODE, 1N3070 10K/T&R	<u> </u>
D115	C 3181-2	DIODE, 1N4148 T/R	K 4
D116	C 3181-2	DIODE, 1N4148 T/R	КЗ
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	J 3
D119	C 3181-2	DIODE, 1N4148 T/R	J 3
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	C 3181-2	DIODE, 1N4148 T/R	L 5
D123	C 3181-2	DIODE, 1N4148 T/R	L 6
D124	C 3181-2	DIODE, 1N4148 T/R	L 6
D125	C 3181-2	DIODE, 1N4148 T/R	L 6
D127	C 3181-2	DIODE, 1N4148 T/R	L 6
D128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
D129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D130	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D131	C 3181-2	DIODE, 1N4148 T/R	КЗ
D132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D133	C 3181-2	DIODE, 1N4148 T/R	J 1
	INAC		
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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
D134	C 3181-2	DIODE, 1N4148 T/R	J 2
D135	C 3549-0	DIODE, 1N961B 10V ZENER T/R	J 5
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D201	<u>C 3181-2</u>	DIODE, 1N4148 T/R	F 2
D202	C 3181-2	DIODE, 1N4148 T/R	E 3
D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D204	C 3181-2	DIODE, 1N4148 T/R	DЗ
D205	C 3181-2	DIODE, 1N4148 T/R	D 3
D206	C 3181-2	DIODE, 1N4148 T/R	DЗ
D207	C 3181-2	DIODE, 1N4148 T/R	DЗ
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	<u>C 3181-2</u>	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	<u>C 3181-2</u>	DIODE, 1N4148 T/R	85
D212	<u>C 3181-2</u>	DIODE, 1N4148 T/R	A 5
D213	<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	DЗ
D214	<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	F 4
D215	<u>C 3181-2</u>	DIODE, 1N4148 T/R	F 4
D216	<u>C 3181-2</u>	DIODE, 1N4148 T/R	F 3
D217	<u>C 5061-4</u>	DIODE, 1N3070 10K/T&R	F 3
D218	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 3
D219	<u>C 3181-2</u>	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	A 3
D221	<u>C 3181-2</u>	DIODE, 1N4148 T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	<u>C 3181-2</u>	DIODE, 1N4148 T/R	E 6
D225 D227	C 3181-2	DIODE, 1N4148 T/R	E 6
	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232 D233	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233 D234	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	<u>G 1</u>
D234 D235		DIODE, 1N4148 T/R	<u> </u>
	C 3549-0	DIODE, 1N961B 10V ZENER T/R	G 5
E100 E101	C 9857-1 C 9857-1	LED, RED T1 . 1 LEAD SPACE T/R	<u>M5</u>
		LED, RED T1 .1 LEAD SPACE T/R	M 5
E200	C 9857-1	LED, RED T1 . 1 LEAD SPACE T/R	D 5
E201 HW7	C 9857-1 C 8812-7	LED, RED T1 .1 LEAD SPACE T/R	D 5
		5.5" CABLE TIE	<u>A 6</u>
	C 8812-7 C 8812-7	5.5" CABLE TIE	<u>C 6</u>
		5.5" CABLE TIE	<u>N 6</u>
HW10	C 8812-7	5.5" CABLE TIE	P 6
J1	C 7526-4	3POS .1 CENTER MTA HEADER	I 6
JZA	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
E DRAWINGS A	FOR Reference ND SPECIFICATIONS WI INTERNATIONAL, PRODUCED, COPIED, A THE MANUFACTURE (DEVICES WITHOUT PA		AL INC PHONE (219) 294-8 SHEET 13

	r	PARTS LIST	····
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
1800	D 8680-7	CABLE, 10 INCH 12 PIN MTA	B 6
J 801	D 8681-5	CABLE, 6 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, 14PIN, VERT, DOUBLE ROW	H 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	E 3
Q100	C 3625-8	2N4125 30V PNP T/R	К 2
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	К 2
Q102	D 2961-7	SPS8010 60V NPN T/R	M 4
Q1Ø3	C 3786-8	MPS4250A 40V PNP T/R	M 2
Q104	C 3578-9	MPSA93 200V PNP T/R	МЗ
Q105	C 3810-6	MPSA42 300V NPN T/R	M 2
0106	C 3578-9	MPSA93 200V PNP T/R	M 2
0107	C 5891-4	MTS105 THERMAL SENSE T/R	05
0108	C 3786-8	MPS4250A 40V PNP T/R	05
0109	C 3810-6	MPSA42 300V NPN T/R	M 4
0110	<u>C 5891-4</u>	MTS105 THERMAL SENSE T/R	05
0111	C 3786-8	MPS4250A 40V PNP T/R	05
0112	D 2962-5	MPSA18 45V NPN T/R	K 4
0113	<u>C 7458-0</u>	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	J3
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	0 1
Q117	C 7458-0	2N4123 30V NPN T/R	0 1
Q118	C 3625-8	2N4125 30V PNP T/R	М 5
Q119	C 7458-0	2N4123 30V NPN T/R	M 5
0120	C 3625-8	2N4125 30V PNP T/R	M 4
Q121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
Q123	C 3625-8	2N4125 30V PNP T/R	M 5
Q124	C 3625-8	2N4125 30V PNP T/R	M 4
0125	C 3625-8	2N4125 30V PNP T/R	M 4
Q126	C 7458-0	2N4123 30V NPN T/R	L 4
Q127	C 3810-6	MPSA42 300V NPN T/R	K 4
Q128	C 7458-0	2N4123 30V NPN T/R	M 4
Q129	C 3625-8	2N4125 30V PNP T/R	M 4
Q130	C 3578-9	MPSA93 200V PNP T/R	L 4
Q131	C 7597-5	J202 N-CHANNEL JFET	JG
0200	C 3625-8	2N4125 30V PNP T/R	F 2
0201	C 3625-8	2N4125 30V PNP T/R	F 2
0202	D 2961-7	SPS8010 60V NPN T/R	D 4
0203	C 3786-8	MPS4250A 40V PNP T/R	D 2
0204	C 3578-9	MPSA93 200V PNP T/R	DЗ
0205	C 3810-6	MPSA42 300V NPN T/R	C 2
0206	C 3578-9	MPSA93 200V PNP T/R	C 2
	INACTI For Reference U		AL INC.
E DRAWINGS A	ND SPECIFICATIONS NN INTERNATIONAL, PRODUCED, COPIED, THE MANUFACTURE	1718 WEST MISHAWAKA BOAD EI KHART INDIANA 46617	PHONE (219) 294-6 SHEET 14
NOT BE REF	RODUCED, COPIED,	OR USED R SALE ERMISSION. PROJ. D360 100298	

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
Q207	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0208	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	D 4
0210	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0211	C 3786-8	MPS4250A 40V PNP T/R	85
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	<u> </u>
0214	C 3625-8	2N4125 30V PNP T/R	G 3
0215	C 3786-8	MPS4250A 40V PNP T/R	F 3
Q216	C 3625-8	2N4125 30V PNP T/R	<u> </u>
0217	C 7458-0	2N4123 30V NPN T/R	<u>B 1</u>
0218	C 3625-8	2N4125 30V PNP T/R	<u>C5</u>
0219	C 7458-0	2N4123 30V NPN T/R	<u>C 5</u>
0220	C 3625-8	2N4125 30V PNP T/R	C 4
0221	C 7458-0	2N4123 30V NPN T/R	<u> </u>
0222	C 3625-8	2N4125 30V PNP T/R	<u>C 4</u>
0223	C 3625-8	2N4125 30V PNP T/R	D 5
0224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
0228	<u>C 7458-0</u>	2N4123 30V NPN T/R	D 4
Q229	C 3625-8	2N4125 30V PNP T/R	D 4
0230	C 3578-9	MPSA93 200V PNP T/R	<u>E 4</u>
Q231	C 7597-5	J202 N-CHANNEL JFET	G 6
R1		46.4 KOHM . 25W 1% MF T/R	E 2
R2	A10265-53621	53.6 KOHM . 25W 1% MF T/R	F 2
R4	A10265-10031	100. KOHM . 25W 1 MF T/R	G 5
R5	A10265-24921	24.9 KOHM . 25W 1% MF T/R	<u> </u>
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031		F 5
R8	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051 A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R10		1.0 MOHM .25W 5 CF T/R	<u>H 2</u>
R11	A10266-9111	910. OHM . 25W 5 CF T/R	I 2
R12	A10124-24 A10124-24	WIRE, #24 SOLID BUS	<u> </u>
R13		WIRE, #24 SOLID BUS	Нб
R100	A10265-10021	10. KOHM .25W 1 MF T/R	J 3
R101	A10265-10021	10. KOHM .25W 1 MF T/R	L J 3
R102	A10265-10021	10. KOHM .25W 1 MF T/R	J3
R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
R104	A10265-10021	10. KOHM . 25W 1 MF T/R	J 2
R105	A10265-49911	4.99KOHM .25W 1 MF T/R	<u> </u>
R106	A10265-49911	4.99KOHM .25W 1 MF T/R	I 3
R107	101051-1	5K, , 10%, LINEAR W/21 DETENT	J 2
R108	A10265-76811	7.68 KOHM .25W 1% MF T/R	<u> </u>
	· · · · · · · · · · · · · · · · · · ·		
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E DRAWINGS A	ND SPECIFICATIONS AR N INTERNATIONAL, INC PRODUCED, COPIED, OR I	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN TLM 02-24-97 DWG. NO.	PHONE (219) 294-8
NOT DE DE	RODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	$\begin{array}{c c} \hline \\ \hline $	SHEET 15 CONT. ON SHEET 16

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R109	A10265-24921	24.9 KOHM .25W 1% MF T/R	I 1
R110	A10265-69811	6.98 KOHM .25W 1% MF T/R	I 1
R111	A10265-24921	24.9 KOHM .25W 1% MF T/R	К 2
R112	A10266-2201	22.0 OHM .25W 5 CF T/R	J 2
7113	A10265-49911	4.99KOHM .25W 1 MF T/R	К 2
7114	A10265-10031	100. KOHM .25W 1 MF T/R	К 2
R115	A10265-15031	150 KOHM .25 1% MF T/R	J 4
R116	A10265-10721	10.7KOHM .25W 1% MF T/R	I 4
7117	A10265-20031	200.KOHM .25W 1 MF T/R	ΙЗ
R118	A10265-10521	10.5KOHM .25W 1% MF T/R	IЗ
3119	A10265-10031	100. KOHM .25W 1 MF T/R	K 2
7120	A10266-5111	510. OHM .25W 5 CF T/R	K 2
7121	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	К 2
R122	A10266-1321	1.3 KOHM .25W 5 CF T/R	К 2
7123	A10265-49911	4.99KOHM .25W 1 MF T/R	К 2
R124	A10266-1231	12.KOHM .25W 5% CF T/R	L 3
7125	A10266-1231	12.KOHM .25W 5% CF T/R	L 2
7126	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 3
7127	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 2
R128	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
7129	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R130	A10265-10031	100. KOHM .25W 1 MF T/R	L 3
7131	A10265-10031		L 2
7132	A10266-4701	47.0 OHM .25W 5 CF T/R	L 4
3133	A10266-4701	47.0 OHM .25W 5 CF T/R	L 2
7134	A10266-4711	470. OHM .25W 5% CF T/R	МЗ
7135	A10266-2201	22.0 OHM .25W 5 CF T/R	МЗ
7136	A10266-8211	820. OHM .25W 5% CF T/R	МЭ
7137	A10266-8211	820. OHM .25W 5% CF T/R	M 2
7138	A10266-2201	22.0 OHM .25W 5 CF T/R	M 2
7139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
R140	A10266-4721	4.7 KOHM .25W 5% CF T/R	P 5
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
7142	A10265-66501	665. OHM .25W 1 MF T/R	05
R143	A10265-27401	274. OHM . 25W 1% MF T/R	P 5
R144	A10265-27401	274. OHM . 25W 1% MF T/R	05
7145	A10265-66501	665. OHM .25W 1 MF T/R	05
7146	A10265-66501	665. OHM .25W 1 MF T/R	05
R147	A10265-66501	665. OHM .25W 1 MF T/R	05
3148	A10266-1041	100. KOHM .25W 5% CF25 T/R	P 5
7149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
7150	A10265-35711	3.57KOHM .25W 1 MF T/R	05
7151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
7152	C 8836-6	100 OHM .5W 5% FU/FP T/R	К 4
7153	A10266-1031	10. KOHM .25W 5% CF T/R	К 4
7154	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
7155	C 8836-6	100 OHM .5W 5% FU/FP T/R	КЭ
	INACT		
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REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R156	A10266-1031	10. KOHM . 25W 5% CF T/R	К З
R157	A10266-2721	2.7 KOHM . 25W 5 CF T/R	
R158	A10266-3021	3.0 KOHM .25W 5 CF T/R	<u>кз</u>
R159	A10265-10011		J 4
R160	A10265-10021	10. KOHM . 25W 1 MF T/R	К 3
R161	A10266-4721	4.7 KOHM . 25W 5% CF T/R	J 3
R162	A10266-4721	4.7 KOHM . 25W 5% CF T/R	J 3
R163	A10265-10021		J 3
R164	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	КЗ
R165	A10265-27431	274.KOHM . 25W 1% MF T/R	<u>N 3</u>
R166	A10265-95311		I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	К З
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
R169	A10265-27431	274.KOHM .25W 1% MF T/R	
R170		9.53KOHM .25W 1% MF T/R	J 2
R171	A10266-5621	5.6 KOHM .25W 5% CF T/R	P 3
R172	A10266-1541	150. KOHM . 25W 5% CF T/R	03
R173	A10265-17821	17.8KOHM .25W 1% MF T/R	03
R174		24.9 KOHM .25W 1% MF T/R	03
R175	A10265-49911		03
R176		6.81KOHM .25W 1% MF T/R	03
R177		33.2KOHM .25W 1% MF T/R	0 4
R178	A10265-10021		0 4
R179	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R180	A10265-20011		03
R181	A10265-10001		0 2
R182	A10265-51121	51.1 KOHM .25W 1% MF T/R	0 2
7183	A10265-68111	6.81KOHM .25W 1% MF T/R	0 2
7184	A10265-10001	100. OHM .25W 1 MF T/R	0 2
R185	A10266-2741	270. KOHM .25W 5% CF25 T/R	0 2
R186		100KOHM LINEAR TRIMPOT	02
7187	A10265-14721	14.7 KOHM .25W 1% MF T/R	04
R188	A10265-30921		04
R189	A10265-19121	19.1KOHM .25W 1% MF T/R	04
R190	A10265-33221	33.2KOHM .25W 1% MF T/R	РЗ
7191	A10265-10021	10. KOHM .25W 1 MF T/R	Р 3
R192	A10265-20011	2.0 KOHM .25W 1% MF T/R	Р 3
7193	A10265-20011	2.0 KOHM .25W 1% MF T/R	P 4
7194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
7195	A10265-10001	100. OHM .25W 1 MF T/R	P 2
7196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
9197	A10265-68111	6.81KOHM .25W 1% MF T/R	P 2
198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
9199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
1200	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
120	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
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REF DES	C. P. N	PARTS LIST DESCRIPTION	MAP LOC.
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	
R204		10. KOHM 25W 1 MF T/R	H 1
R205	A10265-49911		G 2
7205	A10265-49911		НЗ
7200	101051-1	5K, , 10%, LINEAR W/21 DETENT	H 3 F 2
7208		7.68 KOHM .25W 1% MF T/R	
7209		24.9 KOHM .25W 1% MF T/R	<u>H 1</u>
7210		6.98 KOHM .25W 1% MF T/R	<u>H 1</u>
7211	A10265-24921		H 1 F 2
7212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
7213	A10265-49911		F 2
7214	A10265-10031		F 2
7215	A10265-15031		G 4
7216		10.7KOHM . 25W 1% MF T/R	H 4
7217		200.KOHM . 25W 1 MF T/R	НЗ
1217 7218		10.5KOHM .25W 1% MF T/R	H 3
7219	A10265-10031		F 2
7220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
7221	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	F 2
7222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
7223	A10265-49911		F 2
7224	A10266-1231	12.KOHM .25W 5% CF T/R	E 3
7225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
7226	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
7227	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 2
7228	A10266-6831	68. KOHM . 25W 5% CF T/R	E 3
7229	A10266-6831	68. KOHM . 25W 5% CF T/R	E 3
1230	A10265-10031		E 3
7231		100. KOHM .25W 1 MF T/R	E 2
7232	A10266-4701	47.0 OHM .25W 5 CF T/R	E 4
7233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
7234	A10266-4711	470. OHM .25W 5% CF T/R	D 3
7235	A10266-2201	22.0 OHM .25W 5 CF T/R	D 3
7236	A10266-8211	820. OHM . 25W 5% CF T/R	<u>р</u> з рз
7237	A10266-8211	820. OHM . 25W 5% CF T/R	D 2
7238	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
7239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
7240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
7241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
7242	A10265-66501	665. OHM .25W 1 MF T/R	85
7243	A10265-27401	274. OHM . 25W 1% MF T/R	A 5
7244	A10265-27401	274. OHM . 25W 1% MF T/R	B 5
7245	A10265-66501	665. OHM . 25W 1 MF T/R	85
3246	A10265-66501	665. OHM .25W 1 MF T/R	B 5
7247	A10265-66501	665. OHM . 25W 1 MF T/R	85
7248	A10266-1041	100. KOHM . 25W 5% CF25 T/R	A 5
7249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
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			1
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	For Reference Use		AL INC
RTY OF CROW	NND SPECIFICATIONS ARE NN INTERNATIONAL, INC. PRODUCED, COPIED, OR U 3 THE MANUFACTURE OR S DEVICES WITHOUT PERMI	THE AND DRAWN TLM 02-24-97 DWG. NO.	SHEET 18

			1
REF DES		DESCRIPTION	MAP LOC.
R250		3.57KOHM .25W 1 MF T/R	<u> </u>
R251	A10266-1041	100. KOHM .25W 5% CF25 T/R	<u> </u>
R252	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 4
R253	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
R254	A10266-2721	2.7 KOHM . 25W 5 CF T/R	<u>E 3</u>
R255	C 8836-6	100 OHM . 5W 5% FU/FP T/R	F 3
R256	A10266-1031	10. KOHM . 25W 5% CF T/R	<u>E 3</u>
R257	A10266-2721	2.7 KOHM . 25W 5 CF T/R	Е 3
R258	A10266-3021	3.0 KOHM . 25W 5 CF T/R	G 4
R259	A10265-10011	1.0 KOHM . 25W 1 MF T/R	F 3
R260	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R261	A10266-4721	4.7 KOHM . 25W 5% CF T/R	G 3
R262	A10266-4721	4.7 KOHM . 25W 5% CF T/R	G 3
R263	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	F 3
R265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
R266		9.53KOHM .25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269		274.KOHM .25W 1% MF T/R	G 2
R270		9.53KOHM .25W 1% MF T/R	G 2
R271	A10266-5621	5.6 KOHM .25W 5% CF T/R	<u>B3</u>
R272	A10266-1541	150. KOHM . 25W 5% CF T/R	<u> </u>
R273		17.8KOHM .25W 1% MF T/R	<u>A 3</u>
R274	A10265-24921		A 3
R275	A10265-49911	4.99KOHM .25W 1 MF T/R	<u> </u>
R276		6.81KOHM .25W 1% MF T/R	<u> </u>
R277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
R278	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
R279		2.0 KOHM .25W 1% MF T/R	<u> </u>
R280		2.0 KOHM .25W 1% MF T/R	<u>A 3</u>
R281	A10265-10001		A 2
R282	A10265-51121		A 2
R283	A10265-68111	6.81KOHM .25W 1% MF T/R	A 2
R284	A10265-10001	100. OHM . 25W 1 MF T/R	A 2
R285	A10266-2741	270. KOHM . 25W 5% CF25 T/R	A 2
R286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
R287	A10265-14721	14.7 KOHM .25W 1% MF T/R	A 4
R288	A10265-30921	30.9 KOHM .25W 1% MF T/R	A 4
R289	A10265-19121	19.1KOHM .25W 1% MF T/R	<u>A 4</u>
R290	A10265-33221	33.2KOHM .25W 1% MF T/R	<u>B3</u>
R291	A10265-10021	10. KOHM .25W 1 MF T/R	<u> </u>
R292	A10265-20011	2.0 KOHM .25W 1% MF T/R	<u>B 4</u>
R293	A10265-20011	2.0 KOHM .25W 1% MF T/R	<u>B 4</u>
R294	A10265-68111	6.81KOHM .25W 1% MF T/R	В 3
R295	A10265-10001	100. OHM .25W 1 MF T/R	B 2
R296	A10265-51121	51.1 KOHM .25W 1% MF T/R	<u>B 2</u>
	INACI	LIVE	
	For Reference	CROWN INTERNATION	AL INC
DRAWINGS /	ND SPECIFICATIONS AR NN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
HTY OF CRO	WN INTERNATIONAL, INC.	DRAWN TLM 02-24-97 DWG. NO.	SHEET 19

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R297	and the second se	6.81KOHM .25W 1% MF T/R	B 2
R298	A10265-10001	100. OHM .25W 1 MF T/R	B 2
R299	A10266-2741	270. KOHM .25W 5% CF25 T/R	B 2
R300	C 5062-2	100KOHM LINEAR TRIMPOT	P 2
R301		14.7 KOHM .25W 1% MF T/R	P 4
R302		30.9 KOHM .25W 1% MF T/R	P 4
R303	A10265-19121		P 4
R304		39.2KOHM .25W 1% MF T/R	P 4
R305	1	357.KOHM .25W 1 MF T/R	P 4
R306	A10266-3021	3.0 KOHM .25W 5 CF T/R	0 1
R307	A10266-1521	1.5 KOHM .25W 5% CF T/R	0 1
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R	0 1
R309	C 7779-9	22. OHM . 25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R312	C 7779-9	22. OHM . 25W 5% FU/FP T/R	N 5
R313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	<u>C 7779-9</u>	22. OHM . 25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R319	A10266-2731	27. KOHM .25W 5 CF T/R	N 5
R320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R322	A10266-2051	2.0 MOHM . 25W 5 CF T/R	К 5
R323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
R324	A10266-4711	470. OHM .25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM . 25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
R327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
R328	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R330	A10266-4741	470. KOHM .25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM . 25W 5% CF T/R	L 5
R332 R333	A10265-49931 A10265-28701	499KOHM .25W 1% MF T/R 287. OHM .25W 1% MF T/R	
R333 R334	A10265-28701 A10266-1831		
R334 R335	A10266-2051		L 6
R336	A10265-10011		J 6
R336 R337	A10265-10011		К 6
R337	A10265-10021		JG
R338	A10266-4731		JG
R340	A10266-5121	47. KOHM .25W 5% CF25 T/R 5.1 KOHM .25W 5 CF T/R	JG
R340	A10266-2031		
	a mar data data and a subscription and a subscription of the subsc		LG
R342	A10266-3921	3.9 KOHM .25W 5% CF T/R	
R343	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
			<u> </u>
	I		J
	INACTI For Reference U	Jse Only CROWN INTERNATION	···-
E DRAWINGS	AND SPECIFICATIONS ARI MN INTERNATIONAL, INC PRODUCED, COPIED, OR I THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN TLM 02-24-97 DWG. NO.	PHONE (219) 294-E
	MALINIEGNALLUNAL, INC	DRAWN TLM 02-24-97 DWG. NO.	SHEET 20

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R345	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R346	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R347	A10266-1031	10. KOHM . 25W 5% CF T/R	L 4
R348	A10266-1031	10. KOHM . 25W 5% CF T/R	
R349	A10266-1031	10. KOHM . 25W 5% CF T/R	
R350	A10266-4701	47.0 OHM . 25W 5 CF T/R	L 5
R351	A10266-2031	20. KOHM . 25W 5 CF T/R	K 4
R352	A10266-1031	10. KOHM . 25W 5% CF T/R	
R353	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R354	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R355	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R356	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R357	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R358	A10266-2031	20. KOHM .25W 5 CF T/R	
R359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R360	A10266-1211	120. OHM .25W 5 CF T/R	N 4
R361	C 6048-0	500 OHM PIHER TRIM	N 4
R362	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R363	A10265-30111	3.01KOHM .25W 1 MF T/R	N 3
R364	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
R365	A10265-30111	3.01KOHM .25W 1 MF T/R	N 3
R366	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
R367	A10265-10011	1.0 KOHM .25W 1 MF T/R	N 3
R368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R369	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R370	A10266-1831	18. KOHM .25W 5% CF T/R	LG
R371	A10265-10021	10. KOHM .25W 1 MF T/R	J 5
7400	C 5062-2	100KOHM LINEAR TRIMPOT	82
R401	A10265-14721	14.7 KOHM .25W 1% MF T/R	B 4
7402	A10265-30921	30.9 KOHM .25W 1% MF T/R	B 4
R403	A10265-19121	19.1KOHM .25W 1% MF T/R	B 4
R404	A10265-39221	39.2KOHM .25W 1% MF T/R	B 4
7405	A10265-35731	357.KOHM .25W 1 MF T/R	85
R406	A10266-3021	3.0 KOHM .25W 5 CF T/R	B 1
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	B 1
7408	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 1
7409	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
7410	A10266-4711	470. OHM .25W 5% CF T/R	C 5
7411	A10266-4711	470. OHM .25W 5% CF T/R	C 5
7412	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
7413	A10266-4711	470. OHM .25W 5% CF T/R	C 5
7414	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
7415	A10266-4711	470. OHM .25W 5% CF T/R	C 4
7416	A10266-4711	470. OHM .25W 5% CF T/R	C 4
7417	A10266-4711	470. OHM .25W 5% CF T/R	C 4
7418	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
	INACTI For Reference L		AL INC
DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
RTY OF CROW	N INTERNATIONAL, INC.	AND DRAWN TLM 02-24-97 DWG. NO.	SHEET 21

		PARTS LIST	
REF DES	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM . 25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM .25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424 R425	A10266-4711 A10266-1041	470. OHM .25W 5% CF T/R	F 5
		100. KOHM .25W 5% CF25 T/R	F 5
R426 R427	A10266-5121 A10266-7521	5.1 KOHM .25W 5 CF T/R 7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231		F 5
R429	A10265-51121	82. KOHM .25W 5% CF T/R 51.1 KOHM .25W 1% MF T/R	E 5
R430	A10265-4741		<u> </u>
R431	A10266-2751	470. KOHM .25W 5% CF T/R 2.7 MOHM .25W 5% CF T/R	E 5 E 5
R432	A10265-49931		E 6
R433	A10265-28701	287. OHM .25W 1% MF T/R	
R434	A10265-1831	18. KOHM . 25W 5% CF T/R	
R435	A10266-2051	2.0 MOHM .25W 5 CF T/R	E 6 G 6
R436	A10208-2051		F 6
R437	A10265-10021	10. KOHM .25W 1 MF T/R	G 6
R438	A10265-1041	100. KOHM . 25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM . 25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM . 25W 5 CF T/R	E 6
R441	A10266-2031	20. KOHM . 25W 5 CF T/R	E 6
R442	A10266-3921	3.9 KOHM . 25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R458	A10266-2031	20. KOHM .25W 5 CF T/R	E 4
R459	A10265-10R01	10.0 OHM .25W 1 MF T/R	СЗ
R460	A10266-1211	120. OHM .25W 5 CF T/R	С 3
R461	C 6048-0	500 OHM PIHER TRIM	C 4
R462	A10265-10R01	10.0 OHM .25W 1 MF T/R	C 4
R463	A10265-30111	3.01KOHM .25W 1 MF T/R	СЗ
R464	A10265-18221	18.2KOHM .25W 1% MF T/R	СЗ
R465	A10265-30111	3.01KOHM .25W 1 MF T/R	СЗ
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	INAC1 For Reference		AL INC
E DRAWINGS	ND SPECIFICATIONS AR	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
EDTY OF COOL	MN INTERNATIONS AN PRODUCED, COPIED, OR I THE MANUFACTURE OR S DEVICES WITHOUT PERM		SHEET 22

000		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R466		18.2KOHM .25W 1% MF T/R	СЗ
R467		1.0 KOHM .25W 1 MF T/R	СЗ
R468	A10266-4711	470. OHM .25W 5% CF T/R	G 4
R469	A10266-4711	470. OHM .25W 5% CF T/R	G 4
R470	A10266-1831	18. KOHM . 25W 5% CF T/R	E 6
R471	A10265-10021		H 6
<u>S1</u>	C 7960-5	DPDT 3POS PC SLIDE SWITCH	I 1
52	<u>C 6781-6</u>	6P3T MONO/STEREO SWITCH	<u>C 1</u>
TP100	<u>C 6564-6</u>	10P DBLROW UNSHRD HDR 87230-5	Кб
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
	C 5095-2	MC7815CT +15V. REG	H 5
U1X	<u>C 9494-3</u>	HEATSINK, TØ220 PLUG IN	Н 5
U2	C 5096-0	MC7915CT -15V. REG	I 5
	C 9494-3	HEATSINK, TØ220 PLUG IN	I 5
		INSTALLED ON NEXT ASSEMBLY	H 2
	<u>C 3451-9</u>	IC SOCKET, BPIN DIP 2-640463-3	H 2
U100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J3
<u>U101</u>	<u>C 7444-0</u>	LM393 DUAL COMPARATOR	03
U102A	C 6911-9	UPA75HA/UPA77HA DUAL XSISTOR	0 2
<u>U103</u>	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	04
U104A	C 6910-1	UPA74HA/UPA76HA NPN XSISTOR	P 2
U106	<u>C 6411-0</u>	H11C2 OPTO SCR	M 5
U107	C 4345-2	LM339N VOLT COMPARATOR	К 5
U108	C 7444-0	LM393 DUAL COMPARATOR	К 6
U109 U200	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	N 3
	101651-1 C 7444-0	MC33079N QUAD OP AMP SGS ONLY	G 3
		LM393 DUAL COMPARATOR	A 3
U202A	C 6911-9	UPA75HA/UPA77HA DUAL XSISTOR	A 2
	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	A 4
U204A	C 6910-1	UPA74HA/UPA76HA NPN XSISTOR	B 2
U206 U207	C 6411-0 C 4345-2	H11C2 OPTO SCR	D 5
U207	C 7444-0	LM339N VOLT COMPARATOR	F 5
U208	C 7636-1	LM393 DUAL COMPARATOR	F 6
U102		MC33078P DUAL LOW NOISE OP AMP SEE NOTE 10	<u> </u>
			0 2
			P 2
U204		SEE NOTE 10 SEE NOTE 10	A 2
Z1		DO NOT INSTALL	B 2
Z1 Z2		DO NOT INSTALL	
Z2 Z3		DO NOT INSTALL	D 1
Z3 Z4		DO NOT INSTALL	D 1
Z5		DO NOT INSTALL	D 2
		DO NOT INSTALL	D 2
E DRAWINGS /	For Reference U		AL INC PHONE (219) 294-E
RTY OF CRO	NND SPECIFICATIONS ARE MN INTERNATIONAL, INC. PRODUCED, COPIED, OR I A THE MANUFACTURE OR S DEVICES WITHOUT PERM	AND JSED DRAWN TLM Ø2-24-97 DWG. NO. JSED SSION. PROJ. D360 100298	SHEET 23

	8	7	6	5	₩5. NO. 100298
				COMPONE (component	
		D 8681-5 D 8680-			NOTE 7
	6		C284 - R478 - D226 R434 - D224	HOLSIS3H HULSIS3H U231 HULSIS3H HULSISAH HULSISA	HOLSISH SNIJAILMAGI HIJI-HWY - R12 - 0131 - R338 - J1 - R338 - - R337 -
	5	$\begin{array}{c} - R248 - \\ C220 - \\ - R248 - \\ - R243 - \\ - R243 - \\ - R243 - \\ - R243 - \\ - R244 - \\ - R248 - \\ - R418 - \\ - R418 - \\ - R418 - \\ - R418 - \\ - R411 - \\ - R41 - \\ - R4$	$\begin{array}{c cccc} C281 & - R428 - \\ - R423 - \\ - R423 - \\ - R423 - \\ - R423 - \\ - R421 - (C282) \\ - C282 - \\ - R431 - \\ - R428 - \\ - R431 - \\ - R428 - \\ - R458 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	D13971- C173 C173 C173 C173 C173 C173 C173 C173
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		BB1X
Υ	Э	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} - R117 - \\ - R118 - \\ - R118 - \\ + D119 - \\ - R188 - \\ + D119 - \\ - R188 - \\ - R188 - \\ - R188 - \\ - R182 - \\ - R181 - \\ - \\ - R181 - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - $
	2	$\begin{array}{c} & & & \\$	D288- - - R225 - C218 C218 - - R233 - C285 - R237 - - C268 0285 - - - C218 224 - 225 - - 52 - R1 - - R214 52 - - R2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	JZZ C183 -CB- - R184 - -CB- - R184 - -129 C188 - R111 - - R178 - - R118 - - R168 - - R188 - - C1772 + + - R118 - +
	1	z1-			- R188 - C186 - C171 - R188 - D-D133
		А В С	D E	F G H	I J

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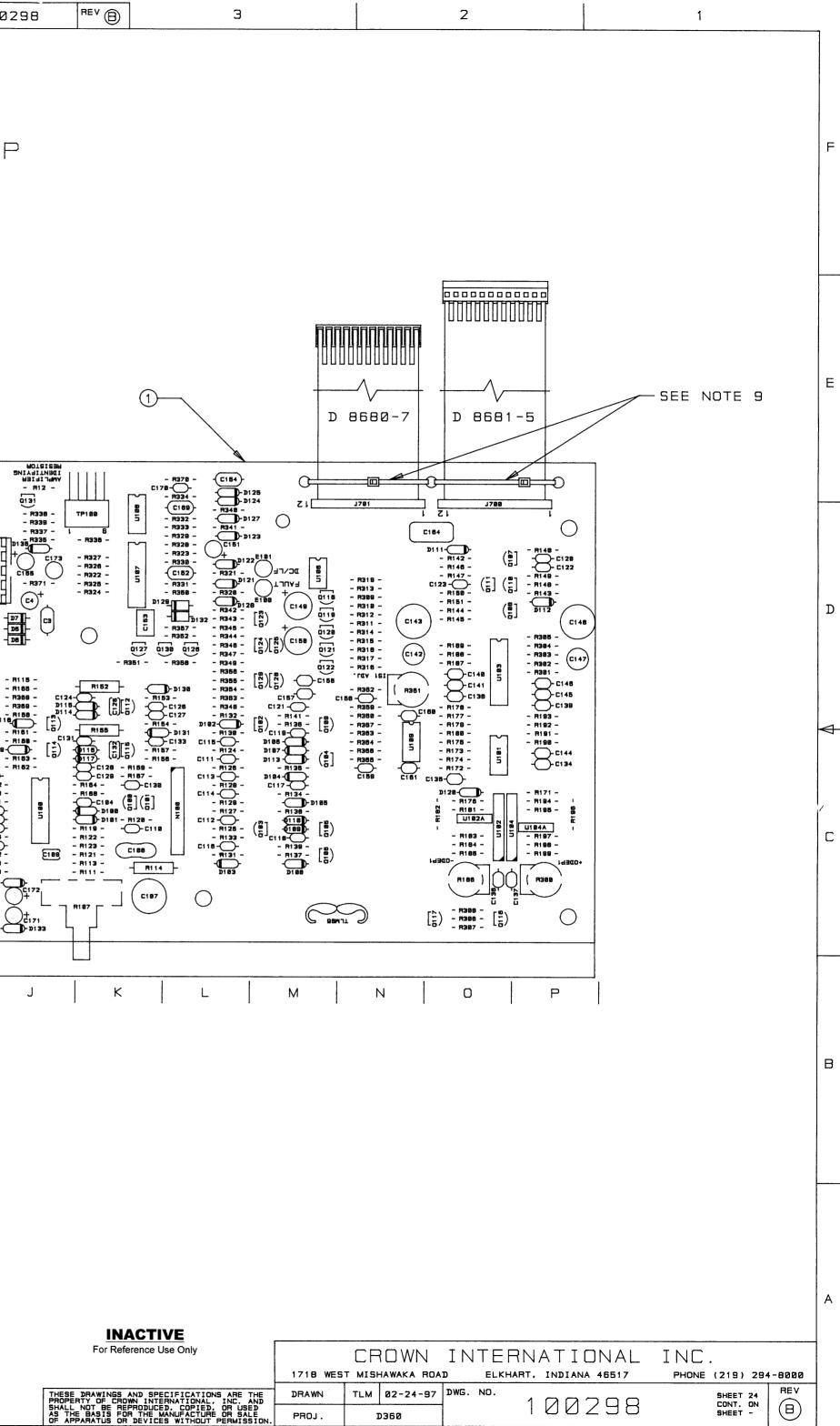
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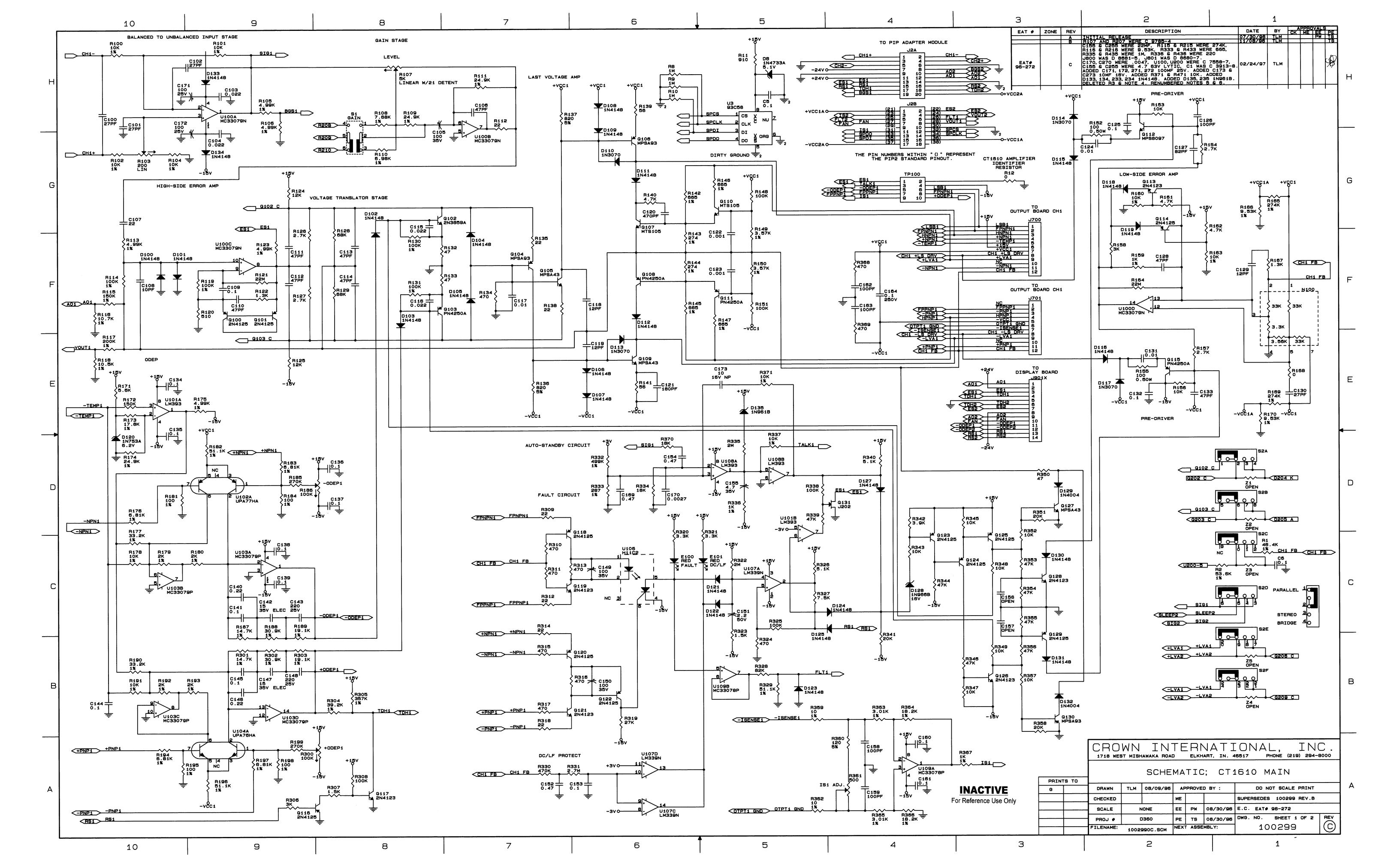
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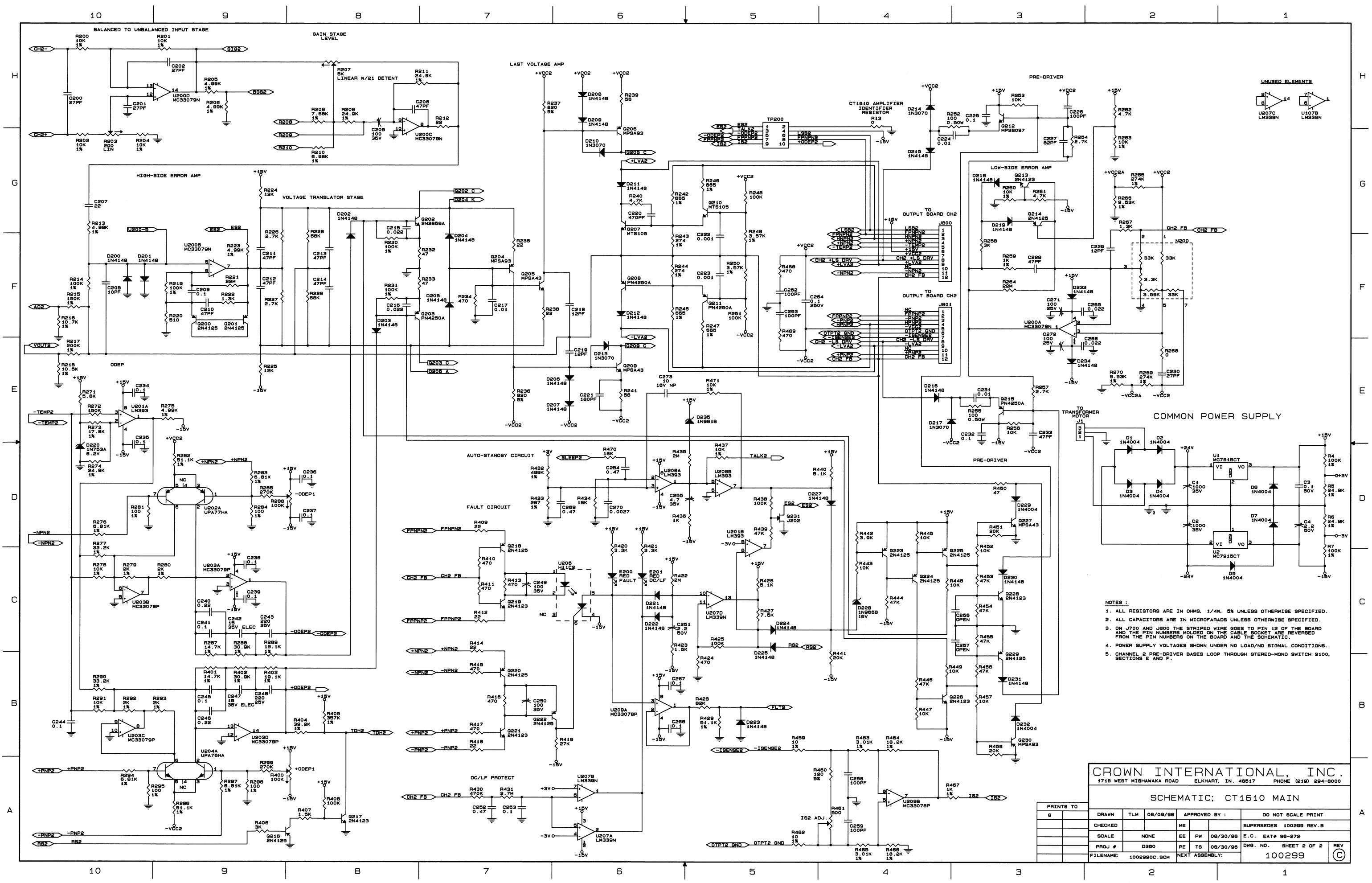


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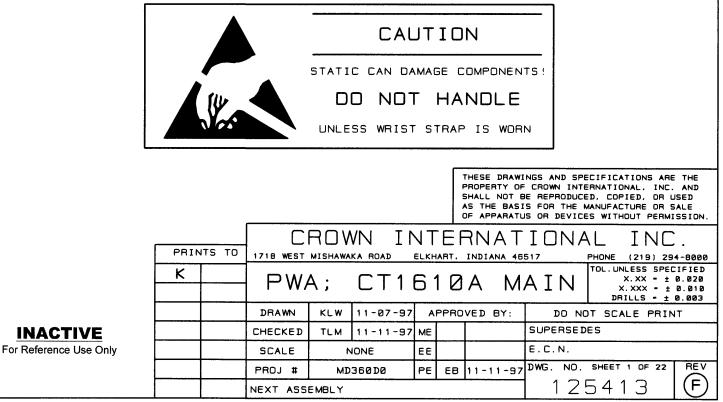
CT1610A Main Module 125413 Information On Following Pages Documentation, Component Map, Schematic

E.C.N. ZONE						APPROVALS			
E.U.N.	ZUNE	REV.	DESCRIPTION	DATE	BY	СНК	ME	EE	PE
		A	INITIAL RELEASE 125413-1.	11-07-97	KLW	TLM			EB
		B	NDTE 2 WAS 125414-1. NDTE 3 WAS 125413-1 ADDED C175,C176,C275 AND C276. C122,C123,C222 AND C223 WERE 0.001UF.	12-16-97	JAW	ĸw			ЕВ
EAD3922		С	REMOVED NOTE 9. RE-NUMBERED NOTES.	01-12-98	WA L	κw			EB
		D	CORRECTED CPN FOR C241 & C245 ON SH. 9.	01-26-98	JAW	ĸw			E8
		E	CORRECTED CPN FOR C240 & C246 ON SH. 9.	02-02-98	JAW	ĸw			EB
98E0129		F	R107 AND R207 WERE P/N 101051-1.	03-04-98	KLW	AM			B

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125409.
- 2. PRINTED WIRING BOARD PART NUMBER 125414-3.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125413-2.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- B. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



	PARTS_LIS		
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10001	100. OHM . 25W 1 MF T/R	9	R181, R184, R195, R198, R281,
			R284, R295, R298, R332
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100, R101, R102, R104, R160,
			R163, R178, R191, R200, R201,
			R202,R204,R260,R263,R278,
			R291
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219,R230,R231,R4,R7
A10265-10211	1.02K OHM 0.25W 1% MF T/R	4	R363,R365,R463,R465
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-10R01	10.0 OHM .25W 1 MF T/R	6	R359, R362, R367, R459, R462, R46
A10265-14721	14.7K OHM 0.25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2K OHM .25W 1% MF T/R	4	R364, R366, R464, R466
A10265-19121	19.1K OHM 0.25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179,R180,R192,R193,R279,
			R280, R292, R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
			R274,R5,R6
A10265-27401	274. OHM .25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-30921	30.9K OHM 0.25W 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305,R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304,R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665 OHM 0.25W 1% MF T/R	8	R142, R145, R146, R147, R242,
			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
			R283, R294, R297
A10265-69811	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-76811	7.68K OHM 0.25W 1% MF T/R	2	R108, R208
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
A10266-1031	10. KOHM .25W 5% CF T/R	19	R153, R156, R24, R253, R256,
			R343,R345,R347,R348,R349,
			R352, R357, R443, R445, R447,
			R448, R449, R452, R457
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E DRAWINGS AND SPECIF	ICATIONS ARE THE 1718 WEST MISHAWAKA	ROAD E	LKHART, INDIANA 46517 PHONE (219) 294-80 DWG. NO. SHEET 2 OF 22

	PARTS LIS		
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10266-1041	100. KOHM .25W 5% CF25 T/R	12	R148,R151,R20,R21,R248,
			R251,R308,R325,R338,R408,
			R425,R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10, R17, R22, R8, R9
A10266-1211	120. OHM .25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307,R323,R407,R423
A10266-1531	15. KOHM .25W 5% CF T/R	2	R341,R441
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	4	R351,R358,R451,R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	3	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112,R135,R138,R212,R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227, R254, R257
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM .25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331,R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320,R321,R420,R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132,R133,R232,R233,R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134,R234,R310,R311,R313,
			R315,R316,R317,R324,R368,
			R369, R410, R411, R413, R415,
			R416,R417,R424,R468,R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140,R161,R162,R240,R261,
			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339,R344,R346,R353,R354,
			R355, R356, R439, R444, R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM .25W 5% CF T/R	2	R330, R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120, R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326, R340, R426, R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271
A10266-5641	560. KOHM . 25W 5% CF T/R	1	R16
A10266-6831	68. KOHM . 25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327,R427
A10266-8211	820. OHM .25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM . 25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164,C264
A10579-222KC	2200PF 100 10% POLY FILM T/A	4	C175, C176, C275, C276
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	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	59	D10. D100, D101, D102, D103,
0 0 0 0 1 2			D104, D105, D106, D107, D108,
			D109, D11, D111, D112, D115,
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
		ļ	D13, D130, D131, D133, D134, D13
		ļ	D200, D201, D202, D203, D204,
			D205,D206,D207,D208,D209,
			D211, D212, D215, D216, D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234, D235, D9
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			0230
C 3625-8	2N4125 30V PNP T/R	22	Q100,Q101,Q114,Q116,Q118,
0 0020 0		22	
			0120,0122,0123,0124,0125,
			Q129,Q200,Q201,Q214,Q216,
· · · · · ·			Q218,Q220,Q222,Q223,Q224,
			Q225,Q229
C 3786-8	MPS4250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
			Q208,Q211,Q215
<u>C 3810-6</u>	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			Q227
C 4303-1	1000UF 35V AXIAL CAP	2	C1, C2
C 4345-2	LM339N VOLT COMPARATOR	2	U107,U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T		DB
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096+0	MC7915CT -15V. REG		U2
		1	
<u>C 5215-6</u>	22. MOHM . 25W 5 THICK FILM T	4	R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107, C207
C 5362-6	2.2UF 50V VERT ELECT T/A	Э	C151,C251,C4
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
C 6411-0	H11C2 OPTO SCR	2	U106,U206
C 6564-6	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
<u>C 6781-6</u>	6P3T MONO/STERED SWITCH	1	52
C 6802-0	.47UF 50V AXIAL CER T/R 474	2	C152, C252
C 6804-6	.1UF 50V AXIAL CER T/R 104	24	C134, C135, C136, C137, C138,
			C139, C141, C144, C145, C160,
			C161, C234, C235, C236, C237,
			C238, C239, C241, C244, C245,
			C267, C268, C3, C5
· ·· · · · · · ·			C2U/, C2UU, C3, C3
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	PARTS LIS	<u> </u>	
<u>C.P.N.</u>	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 6805-3	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
			C216,C265,C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117,C124,C131,C217,C224,
			C231
C 6808-7	470.PF 100V 5% NPO AXL CER T	2	C120,C220
C 6810-3	180PF 100V AXIAL CER T/R 181	2	C121, C221
<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T	14	C126,C158,C159,C162,C163,
			C173,C174,C226,C258,C259,
· · · · · · · · · · · · · · · · · · ·			C262,C263,C273,C274
C 6812-9	47PF 200V 10% NPD AXL CER	16	C106,C110,C111,C112,C113,
			C114,C128,C133,C206,C210,
			C211, C212, C213, C214, C228,
			C233
C 6813-7	27PF 200V 10% NPD AXIAL CER	8	C100,C101,C102,C130,C200.
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118, C119, C129, C218, C219,
			C229
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127, C227
C 7417-6	3300PF 100V 10% CAP	4	C122, C123, C222, C223
C 7444-0	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	16	Q107,Q110,Q113,Q117,Q119,
			0121,0126,0128,0207,0210,
			0213,0217,0219,0221,0226,
······			0228
C 7526-4	3POS .1 CENTER MTA HEADER	1	J1
C 7597-5	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1	MC33078P DUAL LOW NOISE OP A	3	U109, U209, U4
C 7779-9	22. OHM . 25W 5% FU/FP T/R	_	R309, R312, R314, R318, R409,
<u> </u>		<u> </u>	R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	51
C 7964-7	.22UF 100V AXIAL CER CAP T/R	4	C140, C146, C240, C246
C 8182-5	1N753A 6.2V .5W ZENER DIODE	2	D120, D220
C 8576-8	100UF 35V 10% ALUM ELECT T/A		C105, C149, C150, C205, C249,
<u> </u>			C250
C 8803-6	.047UF 50V 10%X7R AXL CER T/	4	C141, C145, C241, C245
C 8812-7	5.5" CABLE TIE	4	HW10, HW7, HW8, HW9
C 8836-6	100 OHM 0.50W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/	11	C10, C109, C125, C132, C153,
	101 100 20% 200 HAD CENT 17	<u> ' '</u>	C209, C225, C232, C253, C6,
			C9
C 9079-2	200.0HM TOP ADJ CERMET TRIMM		
		2	R103, R203
<u>C 9464-6</u>	10PF 100V 5% NPO RAD CER T/R	2	
<u>C 9494-3</u>	HEATSINK, TØ220 PLUG IN	2	
<u>C 9615-3</u>	680PF 100V 5% AXL CER NPO T/		
C 9857-1	LED, RED T1 .1 LEAD SPACE T/	4	E100,E101,E200,E201
C10208-4	100.UF 25V 20% RAD ELECT T/R	5	C171,C172,C271,C272,C7,
		 	
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	PARTS LIS	1	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C10570-7	20 PIN HDR PICOFLEX TIN	1	JZA
210571-5	18 PIN HDR PICOFLEX TIN	1	J2B
C10587-1	220UF 25V 20% NP RAD ELEC	4	C143, C148, C243, C248
210588-9	15UF 35V 20% NP RAD ELECT T/	4	C142, C147, C242, C247
2961-7	SP58010 60V NPN T/R	2	Q102,Q202
2962-5	MPSA18 45V NPN T/R	2	0112,0212
0 6082-8	RESISTOR NETWORK-C	2	N100, N200
0 8680-7	CABLE, 6 INCH 12 PIN MTA	2	J701, J800
0 8681-5	CABLE, 10 INCH 12 PIN MTA	2	J700, J801
00375-1	HDR. 14PIN. VERT. DOUBLE	1	J901X
01374-1	2SA1349 DUAL PNP 80V SIP	2	U102A, U202A
01375-1	2SC3381 DUAL NPN 80V SIP	2	U104A, U204A
01651-1	MC33079N QUAD OP AMP SGS ONL	4	U100, U103, U200, U203
02754-1	CD4060 14 STAGE BIN CNTR/OSC	1	US
25414-3	PWB, CT'10A MAIN, , ,	1	1 1
25931-1	POT, 5KOHM 10% LNR 21 DNT	2	R107, R207
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REF DES	C.P.N.	DESCRIPTION	
HEF DES	L.P.N. 125414-3	PWB, CT'10A MAIN, , ,	MAP LOC.
 21	125414-3 C 4303-1	1000UF 35V AXIAL CAP	
 	C 4303-1	1000UF 35V AXIAL CAP	<u>H 4</u> I 4
_ <u></u> _3	C 6804-6	.1UF 50V AXIAL CAP	
_3 C4	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5 J 5
25	C 6804-6	.1UF 50V AXIAL CER T/R 104	J_5 I_2
 _6	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
20	C10208-4	100.UF 25V 20% RAD ELECT T/R	65
св	C 9615-3	680PF 100V 5% AXL CER NPO T/R	E 6
.9	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	I 6
 _10	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	НБ
2100	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 3
2101	C 6813-7	27PF 200V 10% NPO AXIAL CER	JZ
2102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
2104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
2106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	K 1
2108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
C109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
2110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
2111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
2113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
2116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
2117	C 6806-1	.01UF 100V AXIAL CER T/R 103	М З
2118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
2119	C 6814-5	12PF 200V AXIAL CER T/R 120	мз
2120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
2121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
2122	<u>C 7417-6</u>	3300PF 100V 10% CAP	P 5
123	<u>C 7417-6</u>	3300PF 100V 10% CAP	05
124	C 6806-1	.01UF 100V AXIAL CER T/R 103	Κ 4
2125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	<u>K 4</u>
2126	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	<u>K 4</u>
	C 6950-7	82PF 200V 5% NPD AXIAL CER T/R	<u>K 4</u>
	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
129 130	C 6814-5 C 6813-7	12PF 200V AXIAL CER T/R 120	К З
.130	C 6806-1	27PF 200V 10% NPO AXL CER	КЗ
	C 8897-8	.01UF 100V AXIAL CER T/R 103	КЗ
C132 C133	C 6812-9	.1UF 100V 20% Z5U RAD CER T/R	КЗ
_13 <u>3</u>	C 6804-6	47PF 200V 10% NPO AXL CER	КЗ
134	C 6804-6	.1UF 50V AXIAL CER T/R 104 .1UF 50V AXIAL CER T/R 104	P 3
		. 101 DUY ANIAL LER 1/R 104	03
	INACTI	/E	<u> </u>
	For Reference Us	CROWN INTERNATION	
DRAWINGS	ND SPECIFICATIONS N INTERNATIONAL, 1 RODUCED, COPIED, 0	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294
NOT DE DEC	WN INTERNATIONAL, 1 PRODUCED, COPIED, 0	DRAWN KLW 11-07-97 DWG. NO. DR SALE EMISSION. PROJ. MD360D0 125413	SHEET 7 OF 22

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C136	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	02
C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
<u>C138</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	0 4
<u>C139</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
<u>C140</u>	<u>C 7964-7</u>	.22UF 100V AXIAL CER CAP T/R	04
<u>C141</u>	C 6804-6	.1 UF 50V AXIAL CER T/R 104	04
<u>C142</u>	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
C144	C 6804-6	.1UF 50V AXIAL CER T/R 104	Р 3
C145	C 6804-6	.1 UF 50V AXIAL CER T/R 104	P 4
C146	C 7964-7	.22UF 100V AXIAL CER CAP T/R	P 4
C147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
C148	<u>C10587-1</u>	220UF 25V 20% NP RAD ELEC T/R	P 5
C149	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 5
C150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
C152	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 5
C153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
C158	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	N 4
C159	C 6811-1	100PF 200V 10% NPD AXL CER T/R	ЕИ
C160	C 6804-6	.1UF 50V AXIAL CER T/R 104	N 4
C161	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	NЗ
C162	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C163	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	I 4
C164		.1UF 250V 5% MTL POLY FILM T/A	06
C171	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
E172	C10208-4	100. UF 25V 20% RAD ELECT T/R	J 1
C173	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	NЭ
C174	C 6811-1	100PF 200V 10% NPD AXL CER T/R	N 3
C175		2200PF 100 10% POLY FILM T/A	N 2
C176		2200PF 100 10% POLY FILM T/A	P 2
200	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 3
201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C202	C 6813-7	27PF 200V 10% NPO AXIAL CER	<u> </u>
205 2206	C 8576-8 C 6812-9	100UF 35V 10% ALUM ELECT T/A	<u>H 1</u>
	C 5311-3	47PF 200V 10% NPO AXL CER	G 2
207 2208	C 9464-6	22UF 50V 20% NP VERT T/A	F 1
208	C 8897-8	10PF 100V 5% NPO RAD CER T/R	F 2
209	C 6812-9	.1UF 100V 20% Z5U RAD CER T/R 47PF 200V 10% NPO AXL CER	G 2
210	C 6812-9	47PF 200V 10% NPO AXL CER 47PF 200V 10% NPO AXL CER	F 2
211	C 6812-9		E 3
212	C 6812-9		<u>E 2</u>
213	C 6812-9		E 3
214	C 6805-3	47PF 200V 10% NPO AXL CER	E 3
215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
215	C 6806-1	.022UF 100V AXIALCER T/R 223	E 2
_217 C218		.01UF 100V AXIAL CER T/R 103	D 3
218	C 6814-5	12PF 200V AXIAL CER T/R 120	D 2
-213	C 6814-5	12PF 200V AXIAL CER T/R 120	DЗ
	INACTIV For Reference Use		AL INC
DRAWINGS A	ND SPECIFICATIONS ARE M INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI DEVICES WITHOUT PERMI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	HONE (219) 294-

REE DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C220	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	A 5
C220	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222	C 7417-6	3300PF 100V 10% CAP	A 5
2223	C 7417-6	3300PF 100V 10% CAP	B 5
2223	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
2225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
2226	C 6811-1	100PF 200V 10% NPO AXL CER T/R	F 4
2227	C 6950-7	82PF 200V 5% NPD AXIAL CER T/R	F 4
2228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
2229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
2230	C 6813-7	27PF 200V 10% NPO AXL CER	F 3
2231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
2232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
2233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
2234	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
2235	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
2237	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
2238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2239	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 4
2240	C 7964-7	.22UF 100V AXIAL CER CAP T/R	A 4
2241	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
2242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
2243	C10587-1	220UF 25V 20% NP RAD ELEC T/R	A 4
2244	C 6804-6	.1UF 50V AXIAL CER T/R 104	ВЗ
2245	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 4
2246	C 7964-7	.22UF 100V AXIAL CER CAP T/R	B 4
2247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	C 4
2248	C10587-1	220UF 25V 20% NP RAD ELEC T/R	C 5
2249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
2250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
2251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
2252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
2253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
2258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	C 4
2259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	СЗ
262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	86
265	C 6805-3	.022UF 100V AXIALCER T/R 223	FЗ
266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
267	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЗ
268	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЗ
2271	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
2272	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
273	C 6811-1	100PF 200V 10% NPO AXL CER T/R	С 3
2274	C 6811-1	100PF 200V 10% NPO AXL CER T/R	C 2
275	A10579-222KC	2200PF 100 10% POLY FILM T/A	A 2
276	A10579-222KC	2200PF 100 10% POLY FILM T/A	<u> </u>
DRAWINGS	For Reference AND SPECIFICATIONS AR MN INTERNATIONAL INC PRODUCED, COPIED, OR I R THE MANUFACTURE OR S DEVICES WITHOUT PERM	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 45517	

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
DЭ	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
D5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	، ج 4 ل
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
DB	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	
D9	C 3181-2	DIODE, 1N4148 T/R	НБ
D10	C 3181-2	DIODE, 1N4148 T/R	НБ
D11	C 3181-2	DIODE, 1N4148 T/R	Нб
D12	C 3181-2	DIODE, 1N414B T/R	НБ
D13	C 3181-2	DIODE, 1N4148 T/R	I G
D100	C 3181-2	DIODE, 1N4148 T/R	<u>к 2</u>
D101	C 3181-2	DIODE, 1N4148 T/R	К 2
D102	C 3181-2	DIODE, 1N4148 T/R	L 3
D103	C 3181-2	DIODE, 1N4148 T/R	L 2
D104	C 3181-2	DIODE, 1N4148 T/R	M 3
D105	C 3181-2	DIODE, 1N4148 T/R	M 3
D106	C 3181-2	DIODE, 1N4148 T/R	М З
D107	C 3181-2	DIODE, 1N4148 T/R	M 3
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
D109	C 3181-2	DIODE, 1N4148 T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	0 5
D112	C 3181-2	DIODE, 1N4148 T/R	P 5
D113	C 5061-4	DIODE, 1N3070 10K/T&R	МЗ
D114	C 5061-4	DIODE, 1N3070 10K/T&R	K 4
D115	C 3181-2	DIODE, 1N4148 T/R	К 4
D116	C 3181-2	DIODE, 1N4148 T/R	КЗ
0117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	J 3
D119	C 3181-2	DIODE, 1N4148 T/R	J 3
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
0122	C 3181-2	DIODE, 1N4148 T/R	L 5
0123	C 3181-2	DIODE, 1N4148 T/R	L 6
0124	C 3181-2	DIODE, 1N4148 T/R	L 6
0125	C 3181-2	DIODE, 1N4148 T/R	L 6
0127	C 3181-2	DIODE, 1N4148 T/R	L 6
0128	C 3533-4	DIODE, 1N9668 16V ZENER T/R	L 5
0129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
0130	C 3181-2	DIODE, 1N4148 T/R	К 4
0131	C 3181-2	DIODE, 1N4148 T/R	КЗ
0132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
0133	C 3181-2	DIODE, 1N4148 T/R	J 1
0134	C 3181-2	DIODE, 1N4148 T/R	JZ
0135	C 3181-2	DIODE, 1N4148 T/R	K 5
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		ICE USE ONLY 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 45	
DRAWINGS A	ND SPECIFICATIONS N INTERNATIONAL, RODUCED, COPIED,	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46 INC. AND DRAWN KLW 11-07-97 DWG. NO.	517 PHONE (219) 294 SHEET 10 OF 22

		DESCRIPTION	
REF DES			MAP LDC.
D200	C 3181-2 C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	F 2
D201 D202	C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	E 3
	C 3181-2		
D203		DIODE, 1N4148 T/R	E 2
D204	<u>C 3181-2</u>	DIODE, 1N4148 T/R	DЭ
D205	C 3181-2	DIODE, 1N4148 T/R	<u>D3</u>
D206	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u>D3</u>
D207	C 3181-2	DIODE, 1N4148 T/R	D 3
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	C 31B1-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	C 3181-2	DIODE, 1N4148 T/R	85
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D213	C 5061-4	DIODE, 1N3070 10K/T&R	DЗ
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D217	C 5061-4	DIODE, 1N3070 10K/T&R	<u>F 3</u>
D218	C 3181-2	DIODE, 1N4148 T/R	G 3
D219	C 3181-2	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	АЗ
D221	C 3181-2	DIODE, 1N414B T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	C 3181-2	DIODE, 1N4148 T/R	G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
D235	C 3181-2	DIODE, 1N4148 T/R	G 6
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E1Ø1	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	М 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
E201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	5.5" CABLE TIE	АБ
нwв	C 8812-7	5.5" CABLE TIE	С б
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		PARTS LIST	
REF DES	6 C.P.N.	DESCRIPTION	MAP LOC.
HW9	C 8812-7	5.5" CABLE TIE	N 6
HW10	C 8812-7	5.5" CABLE TIE	P 6
J1	C 7526-4	3POS . 1 CENTER MTA HEADER	I 6
JZA	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
1800 1	D 8680-7	CABLE, 6 INCH 12 PIN MTA	B 6
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, , 14PIN.	H 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	E 3
Q100	C 3625-8	2N4125 30V PNP T/R	К 2
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	К 2
Q102	D 2961-7	SP58010 60V NPN T/R	M 4
0103	C 3786-8	MPS4250A 40V PNP T/R	M 2
Q104	C 3578-9	MPSA93 200V PNP T/R	М З
Q105	C 3810-6	MPSA42 300V NPN T/R	M 2
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2
0107	C 7458-0	2N4123 30V NPN T/R	05
Q108	C 3786-8	MPS4250A 40V PNP T/R	05
0109	C 3810-6	MPSA42 300V NPN T/R	M_4
0110	C 7458-0	2N4123 30V NPN T/R	05
<u>Q111</u>	C 3786-8	MPS4250A 40V PNP T/R	05
<u>0112</u>	D 2962-5	MPSA18 45V NPN T/R	K 4
0113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	J 3
0115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	0 1
0117	C 7458-0	2N4123 30V NPN T/R	0 1
Q118	C 3625-8	2N4125 30V PNP T/R	M 5
0119	C 7458-0	2N4123 30V NPN T/R	M 5
Q120	C 3625-8	2N4125 30V PNP T/R	M 4
0121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
Q123	C 3625-8	2N4125 30V PNP T/R	M 5
Q124	C 3625-8	2N4125 30V PNP T/R	M 4
0125	C 3625-8	2N4125 30V PNP T/R	M 4
Q126	C 7458-0	2N4123 30V NPN T/R	L 4
0127	C 3810-6	MPSA42 300V NPN T/R	<u>K 4</u>
Q128	C 7458-0	2N4123 30V NPN T/R	M 4
0129	C 3625-8	2N4125 30V PNP T/R	M 4
0130	C 3578-9	MPSA93 200V PNP T/R	L 4
<u>0131</u>	C 7597-5	J202 N-CHANNEL JFET	J 6
0200	C 3625-8	2N4125 30V PNP T/R	F 2
0201	C 3625-8	2N4125 30V PNP T/R	F 2
0202	D 2961-7	SP58010 60V NPN T/R	D 4
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DRAWINGS	AND SPECIFICATIONS	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIA	
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	C.P.N.	PARTS LIST DESCRIPTION	
0203	C 3786-8		MAP LOC.
Q203	C 3578-9	MPS4250A 40V PNP T/R MPSA93 200V PNP T/R	<u> </u>
0205	C 3810-6	MPSA42 300V NPN T/R	
0205	C 3578-9	MPSA93 200V PNP T/R	
0207	C 7458-0	2N4123 30V NPN T/R	A 5
0208	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	A S
0210	C 7458-0	2N4123 30V NPN T/R	A 5
0211 0211	C 3786-8	MPS4250A 40V PNP T/R	85
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
Q213	C 7458-0	2N4123 30V NPN T/R	G 4
0214	C 3625-8	2N4125 30V PNP T/R	G 3
0215	C 3786-8	MPS4250A 40V PNP T/R	F 3
0216	C 3625-8	2N4125 30V PNP T/R	в 1
0217	C 7458-0	2N4123 30V NPN T/R	B 1
0218	C 3625-8	2N4125 30V PNP T/R	C 5
0219	C 7458-0	2N4123 30V NPN T/R	C 5
0220	C 3625-8	2N4125 30V PNP T/R	C 4
0221	 C 7458-0	2N4123 30V NPN T/R	C 4
0222	C 3625-8	2N4125 30V PNP T/R	C 4
Q223	C 3625-8	2N4125 30V PNP T/R	D 5
Q224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
Q226	C 7458-0	2N4123 30V NPN T/R	E 4
Q227	C 3810-6	MPSA42 300V NPN T/R	F 4
Q228	C 7458-0	2N4123 30V NPN T/R	D 4
Q229	C 3625-8	2N4125 30V PNP T/R	 D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
Q231	C 7597-5	J202 N-CHANNEL JFET	G 6
R1	A10265-46421	46.4 KOHM .25W 1% MF T/R	E 2
R2	A10265-53621	53.6 KOHM .25W 1% MF T/R	F 2
R4	A10265-10031	100. KOHM .25W 1 MF T/R	G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	G 5
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031	100. KOHM .25W 1 MF T/R	F 5
R8	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	H 2
R11	A10266-9111	910. OHM .25W 5 CF T/R	ΙZ
R12	A10124-24	WIRE, #24 SOLID BUS	J 6
R13	A10124-24	WIRE, #24 SOLID BUS	НБ
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 5
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R	G 6
R16	A10266-5641	560. KOHM .25W 5% CF T/R	G 6
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 6
R18	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
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DRAWINGS	AND SPECIFICATIONS ARE MN INTERNATIONAL, INC	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294- SHEET 13 OF 22

BEE DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R20	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R21	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R22	A10266-1051	1.0 MOHM .25W 5 CF T/R	Н 5
R23	A10266-2051	2.0 MDHM .25W 5 CF T/R	Н 5
R24	A10266-1031	10. KOHM . 25W 5% CF T/R	I 6
725	A10265-10011	1.0 KOHM .25W 1 MF T/R	I 6
7100	A10265-10021		
7101	A10265-10021	10. KOHM .25W 1 MF T/R	J 3
7102	A10265-10021	10. KOHM.25W1 MF T/R	JJ
R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
7104	A10265-10021	10. KOHM .25W 1 MF T/R	J 2
7105	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
7106	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
7107	125931-1	POT, 5KOHM 10% LIN 21 DNT	J 2
7108	A10265-76811	7.68 KOHM 0.25W 1% MF T/R	I 1
7109	A10265-24921	24.9 KOHM .25W 1% MF T/R	I 1
7110	A10265-69811	6.98 KOHM .25W 1% MF T/R	I 1
7111	A10265-24921	24.9 KOHM .25W 1% MF T/R	К 2
7112	A10266-2201	22.0 OHM .25W 5 CF T/R	J 2
3113	A10265-49911	4.99KOHM .25W 1 MF T/R	К 2
7114	A10265-10031	100. KOHM .25W 1 MF T/R	К 2
3115	A10265-15031	150 KOHM .25 1% MF T/R	J 4
7116	A10265-10721	10.7KOHM .25W 1% MF T/R	I 4
7117		200.KOHM .25W 1 MF T/R	IЗ
7118	A10265-10521	10.5KOHM .25W 1% MF T/R	IЗ
7119	A10265-10031	100. KOHM .25W 1 MF T/R	К 2
7120	A10266-5111	510. OHM .25W 5 CF T/R	K Z
7121	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	К 2
7122	A10266-1321	1.3 KOHM .25W 5 CF T/R	К 2
123	A10265-49911	4.99KOHM .25W 1 MF T/R	K 2
7124	A10266-1231	12.KOHM . 25W 5% CF T/R	<u> </u>
7125	A10266-1231	12.KOHM .25W 5% CF T/R	L 2
7126	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 3
127	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 2
7128	A10266-6831	68. KOHM . 25W 5% CF T/R	L 3
129	A10266-6831	68. KOHM . 25W 5% CF T/R	L 3
7130	A10265-10031	100. KOHM .25W 1 MF T/R	L 3
131	A10265-10031	100. KOHM . 25W 1 MF T/R	L 2
7132 7133	A10266-4701	47.0 DHM .25W 5 CF T/R	
7133	A10266-4701 A10266-4711	47.0 OHM .25W 5 CF T/R 470. DHM .25W 5% CF T/R	
1134	A10266-2201	470. DHM .25W 5% CF T/R 22.0 DHM .25W 5 CF T/R	<u>M 3</u>
7136	A10266-8211		<u>M 3</u>
7137	A10266-8211		<u>M 3</u>
R138	A10266-2201	820. OHM .25W 5% CF T/R 22.0 OHM .25W 5 CF T/R	M 2
138 139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
R140	A10266-4721		<u>M 2</u>
1140	A10200 4721	4.7 KOHM .25W 5% CF T/R	P 5
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DRAWINGS	AND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN KLW 11-07-97 DWG. NO.	PHONE (219) 294- SHEET 14 OF 22

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
R142	A10265-66501	665. OHM .25W 1 MF T/R	0 5
R143	A10265-27401	274. OHM .25W 1% MF T/R	P 5
R144	A10265-27401	274. OHM .25W 1% MF T/R	0 5
R145	A10265-66501		05
R146	A10265-66501	665 OHM 0.25W 1% MF T/R	05
R147	A10265-66501	665 OHM 0.25W 1% MF T/R	05
R148	A10266-1041	100. KOHM .25W 5% CF25 T/R	Ρ5
R149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
R150	A10265-35711	3.57KOHM .25W 1 MF T/R	05
7151	A10266-1041	100. KOHM .25W 5% CF25 T/R	05
R152	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	K 4
7153	A10266-1031	10. KOHM .25W 5% CF T/R	K 4
7154	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
7155	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	КЗ
R156	A10266-1031	10. KOHM .25W 5% CF T/R	КЗ
7157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
7158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
7159	A10265-10011		КЗ
7160	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
7161	A10266-4721	4.7 KOHM .25W 5% CF T/R	J3
7162	A10266-4721	4.7 KOHM .25W 5% CF T/R	_J 3
R163	A10265-10021	10. KOHM .25W 1 MF T/R	JЗ
7164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
7165	A10265-27431	274.KOHM .25W 1% MF T/R	J 4
R166	A10265-95311	9.53KOHM .25W 1% MF T/R	I 4
7167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
7168	A10124-24	WIRE, #24 SOLID BUS	КЗ
7169		274.KOHM .25W 1% MF T/R	J Z
<u>7170</u>		9.53KOHM .25W 1% MF T/R	J 2
7171 7172	A10266-5621 A10266-1541	5.6 KOHM .25W 5% CF T/R 150. KOHM .25W 5% CF T/R	P 3
-172 			03
R174	A10265-24921	17.BKOHM .25W 1% MF T/R 24.9 KOHM .25W 1% MF T/R	03
R175	A10265-49911	4.99KOHM .25W 1 MF T/R	03
3176	A10265-68111	6.81KOHM .25W 1% MF T/R	03
177	A10265-33221	33.2KOHM .25W 1% MF T/R	03
3178	A10265-10021	10. KOHM .25W 1 MF T/R	04
179	A10265-20011	2.0 KOHM . 25W 1% MF T/R	
R180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
181	A10265-10001	100. DHM .25W 1 MF T/R	
182	A10265-51121	51.1 KOHM .25W 1% MF T/R	0 2
183	A10265-68111	6.81KOHM .25W 1% MF T/R	0 2
R184	A10265-10001	100. OHM .25W 1 MF T/R	0 2
7185	A10266-2741	270. KOHM . 25W 5% CF25 T/R	0 2
3186	C 5062-2	100KOHM LINEAR TRIMPOT	0 2
187	A10265-14721	14.7 KOHM 0.25W 1% MF T/R	0 2
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DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC.	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
7188	A10265-30921		0.4
7189	A10265-19121		0 4
R190	A10265-33221		P 3
7191	A10265-10021	10. KOHM.25W1 MF T/R	P 3
3192	A10265-20011	2.0 KOHM .25W 1% MF T/R	Р 3
3193	A10265-20011		P 4
7194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
3195	A10265-10001	100. OHM .25W 1 MF T/R	P 2
7196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
7197	A10265-68111	6.81KOHM .25W 1% MF T/R	P 2
7198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
7199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
7200	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
7201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
7202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
7203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	H 1
7204	A10265-10021	10. KOHM .25W 1 MF T/R	G Z
7205	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
7206	A10265-49911		нз
7207	125931-1	POT, 5KOHM 10% LIN 21 DNT	F 2
7208	A10265-76811		H 1
7209	A10265-24921	24.9 KOHM .25W 1% MF T/R	H 1
7210		6.98 KOHM .25W 1% MF T/R	H 1
7211	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 2
7212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
7213	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
7214	A10265-10031		F 2
7215	A10265-15031		<u> </u>
7216		10.7KOHM .25W 1% MF T/R	H 4
7217		200.KOHM .25W 1 MF T/R	НЗ
7218	<u> </u>	10.5KOHM .25W 1% MF T/R	НЗ
1219	A10265-10031		F 2
1220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
1221	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	F 2
1222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
1223	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
7224	A10266-1231	12.KOHM .25W 5% CF T/R	E 3
7225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
7226	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
1227	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
7228	A10266-6831 A10266-6831	68. KOHM .25W 5% CF T/R	<u> </u>
7229 7230		68. KOHM .25W 5% CF T/R	<u>E 3</u>
	A10265-10031	100. KOHM .25W 1 MF T/R	E 3
1231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
1232	A10266-4701	47.0 DHM .25W 5 CF T/R	E 4
1233	A10266-4701	47.0 OHM .25W 5 CF T/R	<u>E 2</u>
7234	A10266-4711	470. OHM .25W 5% CF T/R	DЗ
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DRAWINGS	ND SPECIFICATIONS ARE		PHONE (219) 294

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R235	A10266-2201	22.0 OHM .25W 5 CF T/R	DЗ
R236	A10266-8211	820. OHM .25W 5% CF T/R	DЗ
R237	A10266-8211	820. OHM .25W 5% CF T/R	D 2
R238	A10266-2201	22.0 DHM .25W 5 CF T/R	D 2
R239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
R240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
R241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
R242	A10265-66501	665. OHM .25W 1 MF T/R	B 5
R243	A10265-27401	274. OHM .25W 1% MF T/R	A 5
7244	A10265-27401		В 5
R245	A10265-66501		B 5
R246	A10265-66501		85
R247	A10265-66501		B 5
7248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
7249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
7250	A10265-35711	3.57KDHM .25W 1 MF T/R	85
7251	A10266-1041	100. KOHM .25W 5% CF25 T/R	85
7252	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	F 4
7253	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
7254	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
7255	C 8836-6	100 OHM 0.50W 5% FU/FP T/R	F 3
7256	A10266-1031	10. KOHM . 25W 5% CF T/R	E 3
7257	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 3
7258	A10266-3021	3.0 KOHM .25W 5 CF T/R	G 4
7259	A10265-10011	1.0 KOHM .25W 1 MF T/R	F 3
7260	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R261	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
7262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
7263	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
7264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 3
7265	A10265-27431	274.KOHM .25W 1% MF T/R	G 4
7266	A10265-95311	9.53KOHM .25W 1% MF T/R	H 4
7267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
7268	A10124-24	WIRE, #24 SOLID BUS	F 3
7269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
7270	A10265-95311	9.53KOHM .25W 1% MF T/R	G 2
7271	A10266-5621	5.6 KOHM .25W 5% CF T/R	В 3
1272	A10266-1541	150. KOHM . 25W 5% CF T/R	A 3
1273	A10265-17821	17.8KOHM .25W 1% MF T/R	A 3
7274	A10265-24921	24.9 KDHM .25W 1% MF T/R	A 3
1275	A10265-49911	4.99KDHM .25W 1 MF T/R	A 3
1276	A10265-68111	6.81KOHM .25W 1% MF T/R	А З
1277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
1278	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
1279	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
1280	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
1281	A10265-10001	100. OHM .25W 1 MF T/R	A 2
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	AND SPECIFICATIONS ARE MN INTERNATIONAL, INC. PRODUCED, COPIED, OR L		

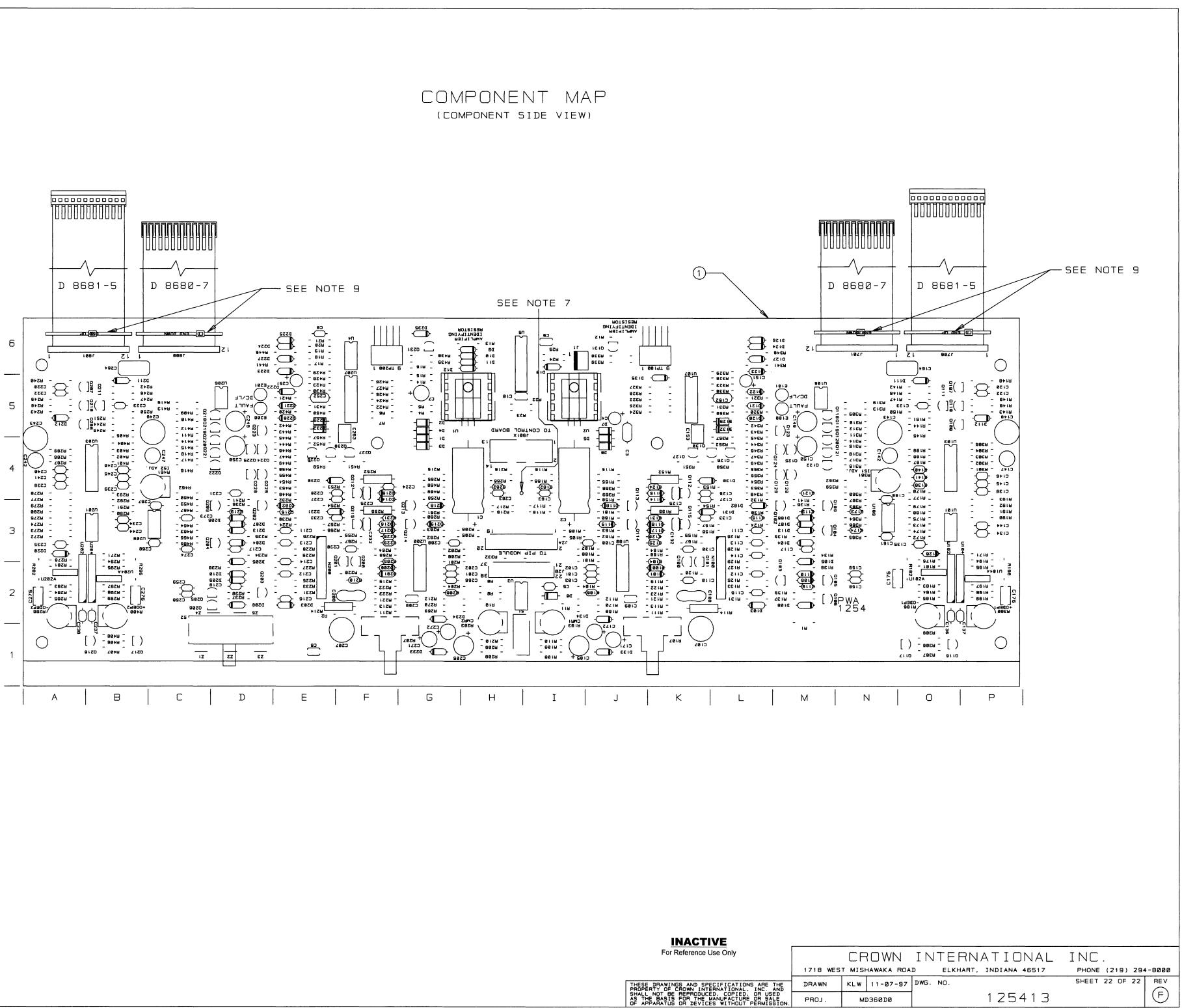
DEE DEE	C.P.N.	PARTS LIST DESCRIPTION	
R282		51.1 KOHM .25W 1% MF T/R	MAP LOC.
R283		6.81KOHM .25W 1% MF T/R	A 2 A 2
R284	······································	100. OHM .25W 1 MF T/R	A 2
R285	A10266-2741	270. KOHM . 25W 5% CF25 T/R	A 2
R286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
R287		14.7K OHM 0.25W 1% MF T/R	A 4
R288		30.9K OHM 0.25W 1% MF T/R	A 4
R289	· · · · · · · · · · · · · · · · · · ·	19.1K OHM 0.25W 1% MF T/R	A 4
R290		33.2KOHM .25W 1% MF T/R	ВЗ
R291	A10265-10021	10. KOHM .25W 1 MF T/R	в 3
R292	A10265-20011		B 4
R293		2.0 KOHM .25W 1% MF T/R	B 4
R294		6.81K0HM .25W 1% MF T/R	ВЗ
R295		100. OHM .25W 1 MF T/R	B 2
R296	A10265-51121		B 2
R297		6.81KOHM .25W 1% MF T/R	B 2
R298		100. OHM .25W 1 MF T/R	B 2
R299	A10266-2741	270. KOHM . 25W 5% CF25 T/R	B 2
R300	C 5062-2	100KOHM LINEAR TRIMPOT	P 2
R301	••••••••••••••••••••••••••••••••••••••	14.7K OHM 0.25W 1% MF T/R	P 4
R302	A10265-30921		P 4
R3Ø3		19.1K OHM 0.25W 1% MF T/R	P 4
R304	i	39.2KOHM .25W 1% MF T/R	P 4
7305		357.KOHM .25W 1 MF T/R	P 4
7306	A10266-3021	3.0 KOHM .25W 5 CF T/R	0 1
7307	A10266-1521	1.5 KOHM .25W 5% CF T/R	0 1
308	A10266-1041	100. KOHM .25W 5% CF25 T/R	0 1
R309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
7310	A10266-4711	470. DHM .25W 5% CF T/R	N 5
7311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
7312	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
314	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
7315	A10266-4711	470. OHM .25W 5% CF T/R	N 4
316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
7317	A10266-4711	470. OHM .25W 5% CF T/R	N 4
318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
319	A10266-2731	27. KOHM .25W 5 CF T/R	N 5
7320	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
7321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
7322	A10266-2051	2.0 MOHM .25W 5 CF T/R	к 5
7323	A10266-1521	1.5 KOHM .25W 5% CF T/R	L 5
7324	A10266-4711	470. DHM .25W 5% CF T/R	к 5
7325	A10266-1041	100. KOHM .25W 5% CF25 T/R	К 5
7326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
7327	A10266-7521	7.5 KOHM .25W 5% CF T/R	К 5
328	A10266-8231	82. KOHM .25W 5% CF T/R	L 5
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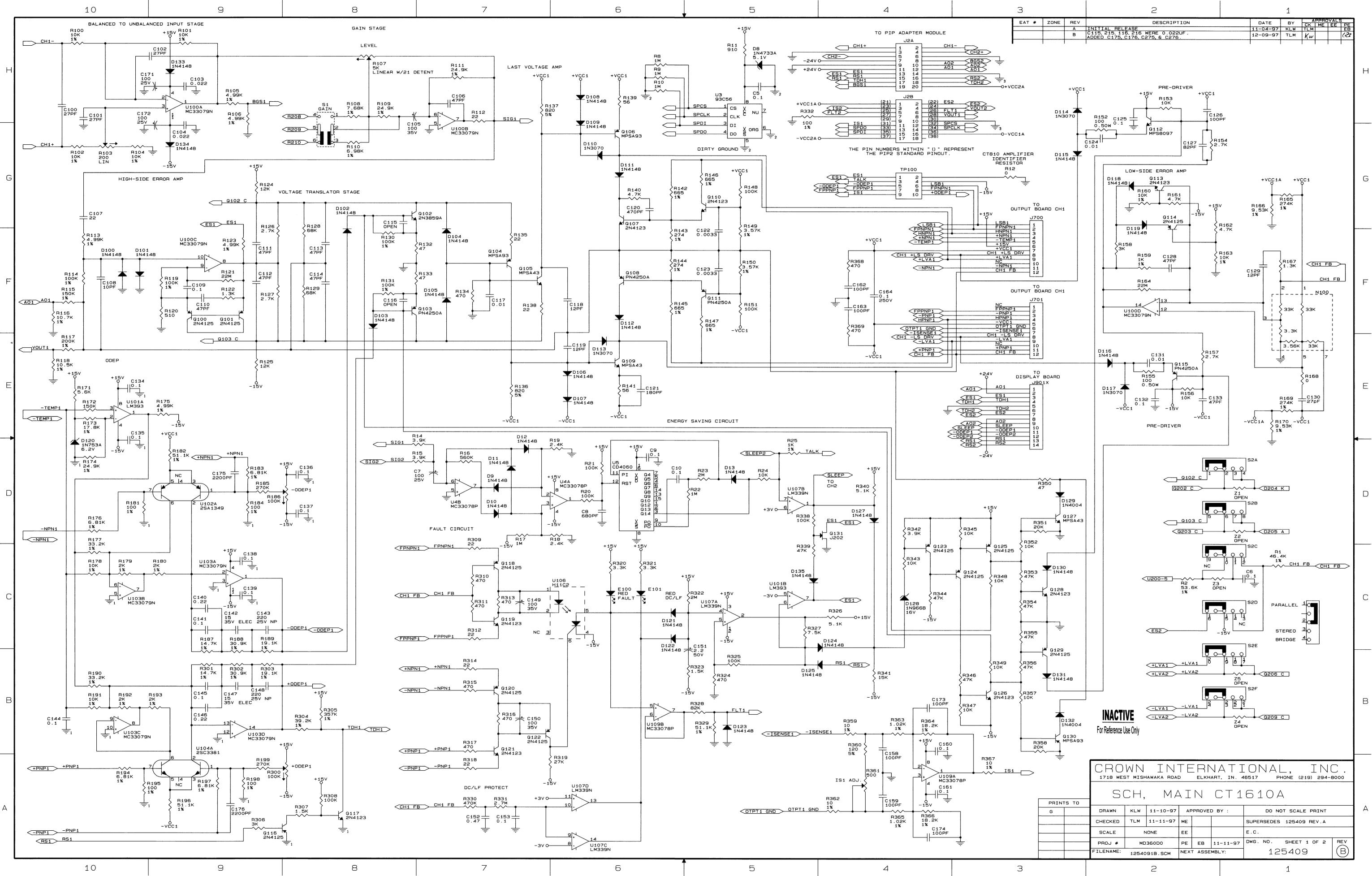
REF DE	5 C.P.N.	DESCRIPTION	MAP LOC.
7329	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
9330	A10266-4741	470. KOHM .25W 5% CF T/R	L 5
7331	A10266-2751	2.7 MOHM .25W 5% CF T/R	L 5
332	A10265-10001	100 OHM 0.25W 1% MF T/R	
8338	A10266-1041	100. KOHM .25W 5% CF25 T/R	J 6
9339	A10266-4731	47. KOHM .25W 5% CF25 T/R	J 6
7340	A10266-5121	5.1 KOHM .25W 5 CF T/R	L 6
7341	A10266-1531	15. KOHM .25W 5% CF T/R	L 6
7342	A10266-3921	3.9 KOHM .25W 5% CF T/R	L 5
343	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7344	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7345	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7346	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7347	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7348	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7349	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
3350	A10266-4701	47.0 OHM .25W 5 CF T/R	L 5
351	A10266-2031	20. KOHM.25W 5 CF T/R	K 4
7352	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
7353	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7354	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7355	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7356	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7357	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7358	A10266-2031	20. KOHM . 25W 5 CF T/R	L 4
7359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
360	A10266-1211	120. DHM .25W 5 CF T/R	N 4
7361	C 6048-0	500 OHM PIHER TRIM	N 4
7362	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
363	A10265-10211	1.02K OHM 0.25W 1% MF T/R	N 3
7364	A10265-18221		N 3
7365		1.02K OHM 0.25W 1% MF T/R	N 3
366	·····	18.2K OHM 0.25W 1% MF T/R	N 3
7367	A10265-10R01	10 OHM 0.25W 1% MF T/R	NЭ
7368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
7369	A10266-4711	470. OHM . 25W 5% CF T/R	J 4
7400	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
7401	A10265-14721	14.7K OHM 0.25W 1% MF T/R	<u> </u>
7402	A10265-30921	30.9K OHM 0.25W 1% MF T/R	<u> </u>
7403	A10265-19121	19.1K OHM 0.25W 1% MF T/R	<u> </u>
7404	A10265-39221	39.2KOHM .25W 1% MF T/R	<u> </u>
1405	A10265-35731	357.KOHM .25W 1 MF T/R	B 5
7406	A10266-3021	3.0 KDHM .25W 5 CF T/R	<u>B 1</u>
1407	A10266-1521	1.5 KOHM .25W 5% CF T/R	
3408	A10266-1041	100. KOHM .25W 5% CF25 T/R	<u>B 1</u>
7409	C 7779-9	22. OHM .25W 5% FU/FP T/R	<u> </u>
7410	A10266-4711	470. DHM .25W 5% CF T/R	C 5
	INACT		
	For Reference	Use Only CROWN INTERNAT	IONAL INC
DRAWINCE	AND SPECIFICATIONS ARE	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 465	17 PHONE (219) 294

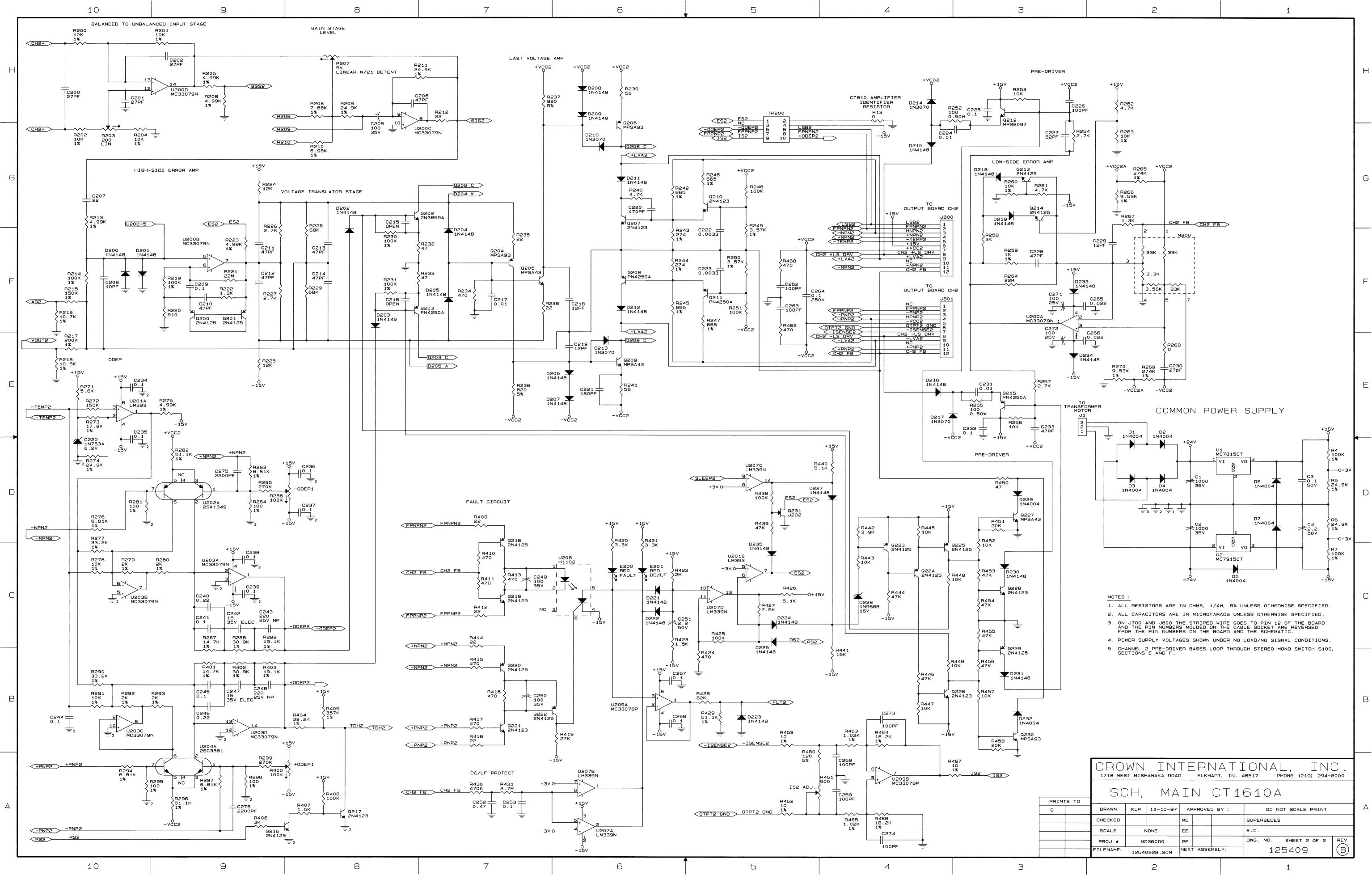
		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R411	A10266-4711	470. OHM .25W 5% CF T/R	C 5
R412	C 7779-9	22. OHM .25W 5% FU/FP T/R	С 5
R413	A10266-4711	470. OHM .25W 5% CF T/R	С 5
R414	C 7779-9	22. DHM .25W 5% FU/FP T/R	C 4
R415	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R416	A10266-4711	470. OHM .25W 5% CF T/R	C 4
R417	A10266-4711	470. OHM .25W 5% CF T/R	<u>C 4</u>
R418	C 7779-9	22. DHM .25W 5% FU/FP T/R	C 4
R419	A10266-2731	27. KOHM .25W 5 CF T/R	С 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM .25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM .25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM . 25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM . 25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM . 25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM . 25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM . 25W 5 CF T/R	E 6
R441	A10266-1531	15. KOHM . 25W 5% CF T/R	E 6
R442	A10266-3921	3.9 KOHM . 25W 5% CF T/R	E S
R443	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM . 25W 5% CF T/R	<u>E 4</u>
R448	A10266-1031	10. KOHM . 25W 5% CF T/R	<u>E 4</u>
R449	A10266-1031	10. KOHM .25W 5% CF T/R	<u>E 4</u>
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	ES
R451	A10266-2031	20. KDHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM . 25W 5% CF T/R	<u>E 4</u>
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R457	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
R458	A10266-2031	20. KOHM .25W 5 CF T/R	E 4
R459	A10265-10R01	10.0 DHM .25W 1 MF T/R	СЗ
R460	A10266-1211	120. OHM .25W 5 CF T/R	СЗ
R461	C 6048-0	500 OHM PIHER TRIM	<u>C 4</u>
R462	A10265-10R01	10.0 OHM .25W 1 MF T/R	C 4
R463	A10265-10211	1.02K OHM 0.25W 1% MF T/R	СЗ
	INACTIVE	CROWN INTERNATION	
E DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	1718 WEET MICHAWAYA BOAD - CLYMART INDIANA 48542	PHONE (219) 294- TEET 20 OF 22

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
7464	A10265-18221	18.2K OHM 0.25W 1% MF T/R	СЗ
7465	A10265-10211	1.02K OHM 0.25W 1% MF T/R	СЗ
R466	A10265-18221	18.2K OHM 0.25W 1% MF T/R	СЗ
7467	A10265-10R01	10 OHM 0.25W 1% MF T/R	СЗ
7468	A10266-4711	470. OHM .25W 5% CF T/R	G 4
7469	A10266-4711	470. OHM .25W 5% CF T/R	G 4
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	I 1
52	C 6781-6	6P3T MONO/STERED SWITCH	C 1
TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	КБ
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
1	C 5095-2	MC7815CT +15V. REG	Н 5
11X	C 9494-3	HEATSINK, TØ220 PLUG IN	Н 5
J2	C 5096-0	MC7915CT -15V. REG	I 5
J2X	C 9494-3	HEATSINK, TØ220 PLUG IN	15
13		INSTALLED ON NEXT ASSEMBLY	H 2
XEL	C 3451-9	IC SOCKET, BPIN DIP 2-640463-3	H 2
<u> </u>	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	<u> </u>
15	102754-1	CD4060 14 STAGE BIN CNTR/OSC	НБ
J100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J 3
101	C 7444-0	LM393 DUAL COMPARATOR	03
J102A	101374-1	25A1349 DUAL PNP BØV SIP	02
<u>1103</u>	101651-1	MC33079N QUAD OP AMP SGS ONLY	0 4
<u>104A</u>	101375-1	25C3381 DUAL NPN 80V SIP	P 2
<u>_106</u>	<u>C 6411-0</u>	H11C2 OPTO SCR	M 5
<u>107</u>	C 4345-2 C 7636-1	LM339N VOLT COMPARATOR	К 5
J109 J200	101651-1	MC33078P DUAL LOW NOISE OP AMP MC33079N QUAD OP AMP SGS ONLY	<u>N 3</u>
J200	C 7444-0	LM393 DUAL COMPARATOR	<u> </u>
J202A	101374-1	25A1349 DUAL PNP 80V SIP	A 3 A 2
J2027	101651-1	MC33079N QUAD OP AMP SGS ONLY	A 2
J204A	101375-1	25C3381 DUAL NPN 80V SIP	B 2
J206	C 6411-0	H11C2 OPTO SCR	D 5
J207	C 4345-2	LM339N VOLT COMPARATOR	F 5
J209	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В 3
J102		OPEN	0 2
J104		OPEN	P 2
J202		OPEN	A 2
J204		OPEN	B 2
Z1		OPEN	C 1
22		OPEN	D 1
Z3		OPEN	D 1
24		OPEN	D 2
25		OPEN	D 2
	INACTIVE For Reference Use Only	CROWN INTERNATION	
DRAWINGS	ND SPECIFICATIONS ARE	1718 WEET MICHAWAYA BOAD - ELVIART TARTANA 45517	PHONE (219) 294

(COMPONENT SIDE VIEW)







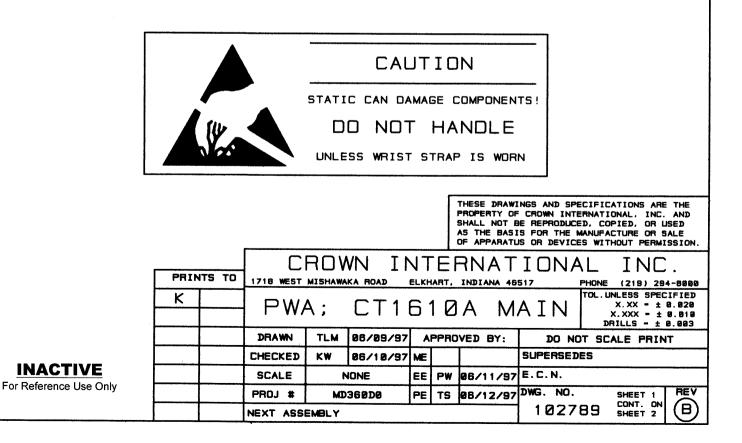
CT1610A Main Module 102789 Information On Following Pages Documentation, Component Map, Schematic

E.C.N.	ZONE	REV.	DESCRIPTION	DATE BY	BY	APPROVALS					
				2/112		CHK	ME	EE	PE	Ĺ	
		•	INITIAL RELEASE	06/09/97	TLM	ĸw		PW	TS		
		B	CHG. WATT. ON R327, R427 FROM 1W TO .25W.	08/04/97	DWW	Jun			R	ł	
_											

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102769.
- 2. PWB PART NUMBER 102756-1.
- 3. PWA PART NUMBER 102789-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. INSERT 8 PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- 8. INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION LOCATIONS U1 AND U2.
- 9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801.
 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.
 OF THE CABLES.
 ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD, THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- 10. U102, U104, U202 AND U204 ARE ALTERNATE COMPONENT PARTS.
- 11. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE P.C. BOARD AND SHALL BE PERMANENT.



	PARTS LIS	6T	
C. P. N.	DESCRIPTION	DTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10001	100. OHM .25W 1 MF T/R		R181, R184, R195, R198, R281,
		† – –	R284, R295, R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467,
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100, R101, R102, R104, R160,
A10203 10021			
		+	R163, R178, R191, R200, R201, R202, R204, R260, R263, R278,
A10005 10001			R291
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219, R230, R231, R4, R7
A10265-10521	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116,R216
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359,R362,R459,R462
A10265-14721	14.7 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM . 25 1% MF T/R	2	R115,R215
A10265-17821	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179, R180, R192, R193, R279,
		1	R280, R292, R293
A10265-20031	200.KOHM . 25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	B	R109, R111, R174, R209, R211,
A10200 21021	24:3 KOTWI : 23W 1/2 WI 1/1		R274, R5, R6
A10265-27401	274. OHM .25W 1% MF T/R		
		4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-30921	30.9 KOHM .25W 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177,R190,R277,R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305,R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304,R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM . 25W 1 MF T/R	8	R142, R145, R146, R147, R242,
			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R		
	C. GTROHME, 20W FA ME IZA	8	R176,R183,R194,R197,R276,
A10265-69811			R283, R294, R297
	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-76811	7.68 KOHM .25W 1% MF T/R	2	R108, R208
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
A10266-1031	10. KOHM .25W 5% CF T/R	19	R153, R156, R24, R253, R256,
			R343,R345,R347,R348,R349,
			R352.R357,R443,R445,R447,
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		4	
For			NTERNATIONAL INC.
SE DRAWINGS AND SPECIF	ICATIONS ARE THE 1718 WEST MISHAWAKA F		LKHART, INDIANA 46517 PHONE (219) 294-80
SE DRAWINGS AND SPECIF Perty of Crown Intern/ LL Not be Reproduced. The Basis for the Manu Apparatus or Devices V	TIONAL, INC. AND DRAWN TLM 05	-09-97	DWG. NO. SHEET 2
LOC DANIS FOR THE MANE	IN ALL LUM SALES		102789 Sheet 3 (

	PARTS LIS	1	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
			R448, R449, R452, R457
A10266-1041	100. KOHM .25W 5% CF25 T/R	12	R148, R151, R20, R21, R248,
			R251,R308,R325,R338,R408,
			R425,R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10, R17, R22, R8, R9
A10266-1211	120. OHM .25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307,R323,R407,R423
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	6	R341,R351,R358,R441,R451,
			R458
A10266-2051	2.0 MOHM . 25W 5 CF T/R	Э	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112,R135,R138,R212,R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227,R254,R257
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331, R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315, R316, R317, R324, R368,
			R369, R410, R411, R413, R415,
			R416, R417, R424, R468, R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
A10200 4721			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339, R344, R346, R353, R354,
			R355, R356, R439, R444, R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM . 25W 5% CF T/R	2	R330, R430
A10266-5111	510. OHM . 25W 5 CF T/R	2	R120.R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326, R340, R426, R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R		
		2	R171, R271
A10266-5641	560. KOHM .25W 5% CF T/R	1	R16
A10266-6831	68. KOHM . 25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327, R427
A10266-8211	820. OHM . 25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM . 25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164,C264
-		TA	
F			NTERNATIONAL INC
	1718 WEST MISHAWAKA R	DAD E	ELKHART, INDIANA 46517 PHONE (219) 294-8
E DRAWINGS AND SPECIF ERTY OF CROWN INTERN L NOT BE REPRODUCED. THE BASIS FOR THE MANU PPARATUS OR DEVICES V	TICATIONS ARE THE DRAWN TLM 08-	09-97	DWG. NO. SHEET 3

	PARTS LIS	бт	
C. P. N.	DESCRIPTION	Ιατγ	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/		D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	57	D10, D100, D101, D102, D103.
		+	D104. D105, D106, D107, D108.
			D109.D11.D111.D112.D115.
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134,
			D200, D201, D202, D203, D204,
		ļ	D205, D206, D207, D208, D209,
			D211, D212, D215, D216, D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234, D9
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	ИЗХ
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
		1	0230
C 3625-8	2N4125 30V PNP T/R	22	Q100,Q101,Q114,Q116,Q118,
			Q120, Q122, Q123, Q124, Q125,
		+	Q129, Q200, Q201, Q214, Q216,
			0218,0220,0222,0223,0224,
			0225,0229
C 3786-8	MPS4250A 40V PNP T/R	8	0103,0108,0111,0115,0203,
			Q208,Q211,Q215
C 3810-6	MPSA42 300V NPN T/R	6	Q105,Q109,Q127,Q205,Q209,
			0227
C 4303-1	1000UF 35V AXIAL CAP	2	C1,C2
<u>C 4345-2</u>	LM339N VOLT COMPARATOR	2	L107,L207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T	1	D8
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096-0	MC7915CT -15V. REG	1 1	U2
C 5215-6	22. MOHM .25W 5 THICK FILM T	4	R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107, C207
C 5362-6	2.2UF 50V VERT ELECT T/A	3	C151, C251, C4
C 5891-4	MTS105 THERMAL SENSE T/R	$\frac{3}{4}$	Q107,Q110,Q207,Q210
C 6048-0	500 OHM PIHER TRIM		
		$\frac{2}{2}$	R361, R461
<u>C 6411-0</u>	H11C2 OPTO SCR	2	U106,U206
<u>C 6564-6</u>	10P DBLROW UNSHRD HDR 87230-	2	TP100, TP200
<u>C 6781-6</u>	6P3T MONO/STEREO SWITCH	1	52
C 6802-0	. 47UF 50V AXIAL CER T/R 474	2	C152,C252
C 6804-6	.1UF 50V AXIAL CER T/R 104	24	C134, C135, C136, C137, C138,
			C139, C141, C144, C145, C160,
			C161,C234,C235,C236,C237,
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	For Reference Use Only	٦N	NTERNATIONAL INC.
			ELKHART, INDIANA 46517 PHONE (219) 294-800
E DRAWINGS AND SPE		-00-07	DWG. NO. SHEET 4
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	PARTS LIS		
C. P. N.	DESCRIPTION	QTY	
		·	C238, C239, C241, C244, C245,
<u> </u>		ļ	C267,C268,C3,C5
<u>C 6805-3</u>	.022UF 100V AXIALCER T/R 223	8	C103,C104,C115,C116,C215,
<u> </u>		<u> </u>	C216, C265, C266
C 6806-1	.01UF 100V AXIAL CER T/R 103	6	C117, C124, C131, C217, C224,
C CO07 0		<u> </u>	C231
<u>C 6807-9</u>	.001UF 100V 10% AXL CER T/R	4	C122, C123, C222, C223
<u>C 6808-7</u>	470. PF 100V 5% NPO AXL CER T		C120, C220
<u>C 6810-3</u> C 6811-1	180PF 100V AXIAL CER T/R 181	2	C121, C221
	100PF 200V 10% NPO AXL CER T	11	C126, C158, C159, C162, C163,
			C226, C258, C259, C262, C263,
C 6012.0			
C 6812-9	47PF 200V 10% NPO AXL CER	16	C106, C110, C111, C112, C113,
		ļ	C114, C128, C133, C206, C210,
			C211, C212, C213, C214, C228,
		<u> </u>	C233
C 6813-7	27PF 200V 10% NPO AXIAL CER	8	C100, C101, C102, C130, C200,
			C201,C202,C230
C 6814-5	12PF 200V AXIAL CER T/R 120	6	C118,C119,C129,C218,C219,
		<u> </u>	C229
<u>C 6950-7</u> C 7444-0	82PF 200V 5% NPO AXIAL CER T		C127, C227
	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	12	0113,0117,0119,0121,0126,
			0128,0213,0217,0219,0221,
			0226,0228
	3POS . 1 CENTER MTA HEADER	1	J1
C 7558-7	MC33079P QUAD LOW NOISE OP A	2	U103.U203
<u>C 7597-5</u>	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1 C 7779-9	MC33078P DUAL LOW NOISE OP A	3	U109, U209, U4
	22. OHM . 25W 5% FU/FP T/R	8	R309, R312, R314, R318, R409,
7060-5	DEDT 2000 DD CLADE OWNTON		R412, R414, R418
C 7960-5 C 7964-7	DPDT 3POS PC SLIDE SWITCH	1	S1
	.22UF 100V AXIAL CER CAP T/R	1	C140, C146, C240, C246
C 8182-5 C 8576-8	1N753A 6.2V .5W ZENER DIODE		D120, D220
L 03/0-0	100UF 35V 10% ALUM ELECT T/A	6	C105, C149, C150, C205, C249,
C 8812-7			C250
	5.5" CABLE TIE	4	HW10, HW7, HW8, HW9
C 8836-6 C 8897-8	100 OHM .5W 5% FU/FP T/R	4	R152, R155, R252, R255
_ 003/-0	.1UF 100V 20% Z5U RAD CER T/	11	C10, C109, C125, C132, C153,
			C209,C225,C232,C253,C6,
	200 OHN TOD ADL OFDIGT TOTAL		
<u> </u>	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
<u> </u>	10PF 100V 5% NPO RAD CER T/R	2	C108, C208
<u> </u>	HEATSINK, TØ220 PLUG IN	2	U1X,U2X
<u> </u>	LED, RED T1 .1 LEAD SPACE T/	4	E100, E101, E200, E201
	100.UF 25V 20% RAD ELECT T/R	5	C171, C172, C271, C272, C7,
210570-7	20 PIN HDR PICOFLEX TIN	1	J2A
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E		TN	TERNATIONAL INC.
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ant or CROWN INTE	RNATIONAL, INC. AND DRAWN TLM 26-	·09-97	DWG. NO. SHEET 5

		PAF	RTS LIS	Т	· · · · · · · · · · · · · · · · · · ·
C.P.N.	DESCRIPTION			QTY	REFERENCE DESIGNATION
210571-5	18 PIN HDR PIC	OFLEX TI	N	1	J2B
210587-1	220UF 25V 20%			4	C143, C148, C243, C248
C10588-9	15UF 35V 20% N			4	C142, C147, C242, C247
2961-7	SP58010 60V NPI			2	Q102.Q202
2962-5	MPSA18 45V NPN	_		2	Q112,Q212
6082-8	RESISTOR NETWO			2	N100, N200
0 8680-7	CABLE, 6 INCH		ITA	2	J701, J800
0 8681-5	CABLE, 10 INCH			2	J700, J801
00375-1	HDR, 14PIN, VE	RT, DOUB	ILE	1	J901X
01051-1	5KOHM 10% LNR	21 DNT P	OT .1	2	R107, R207
01374-1	25A1349 DUAL PI	NP 80V S	IP	2	U102A, U202A
101375-1	25C3381 DUAL N			2	U104A, U204A
01651-1	MC33079N QUAD			2	U100, U200
102754-1	CD4060 14 STAG			1	U5
02756-1	PWB, CT'10A MA			1	1
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		1718 WEST			ELKHART, INDIANA 46517 PHONE (219) 294-80
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ERTY DE CHOMM INTE		DRAWN	TLM 08		

REE DEG	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
	102756-1	PWB; CT'10A MAIN ,	MAF LUC.
<u> </u>	C 4303-1	1000UF 35V AXIAL CAP	H 4
C2	C 4303-1	1000UF 35V AXIAL CAP	I 4
C3	C 6804-6	.1UF 50V AXIAL CER T/R 104	J 5
2 <u>4</u>	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
25	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
26	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
 _7	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
28	C 6811-1	100PF 200V 10% NPO AXL CER T/R	E 6
29	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	I G
210	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	H 5
2100	C 6813-7	27PF 200V 10% NPO AXIAL CER	JJ
2101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
2102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
2103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
2104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
2105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
2106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	К 1
2108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
2109	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	J 2
C110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
2111	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
2113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
2115	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
2116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
2117	C 6806-1	.01UF 100V AXIAL CER T/R 103	МЗ
C118	C 6814-5	12PF 200V AXIAL CER T/R 120	M 2
2119	C 6814-5	12PF 200V AXIAL CER T/R 120	МЗ
C120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
2121	C 6810-3	180PF 100V AXIAL CER T/R 181	M 4
2122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
2123	C 6807-9	.001UF 100V 10% AXL CER T/R	05
2124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
2125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	K 4
2126	C 6811-1	100PF 200V 10% NPO AXL CER T/R	К 4
C127	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	К 4
2128	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
2129	C 6814-5	12PF 200V AXIAL CER T/R 120	КЭ
2130	C 6813-7	27PF 200V 10% NPO AXIAL CER	КЗ
2131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЭ
2132	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	КЭ
2133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C134	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
2135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
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	INAC For Reference		NAL INC
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		PARTS LIST	
REF DE	SC.P.N.	DESCRIPTION	MAP LOC.
C136	C 6804-6	.1UF 50V AXIAL CER T/R 104	02
C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
C138	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
C139	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
Ç140	C 7964-7	.22UF 100V AXIAL CER CAP T/R	04
C141	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
C142	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
C144	C 6804-6	.1UF 50V AXIAL CER T/R 104	РЭ
C145	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
<u>C146</u>	C 7964-7	.22UF 100V AXIAL CER CAP T/R	P 4
C147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
C148	C10587-1	220UF 25V 20% NP RAD ELECT T/R	P 5
<u>C149</u>	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 5
C150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
C152	C 6802-0	.47UF 50V AXIAL CER T/R 474	L 5
C153	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
C156		DO NOT INSTALL	<u>M 4</u>
C157		DO NOT INSTALL	M 4
C158	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	N 4
C159	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	<u>N 3</u>
C160	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	N 4
C161	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	ЕИ
C162	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u>I 4</u>
	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C164 C171	C10208-4	.1UF 250V 5% MTL POLY FILM T/A	06
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
C200	C 6813-7	100.UF 25V 20% RAD ELECT T/R	J 1
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	63
C202	C 6813-7	27PF 200V 10% NPO AXIAL CER 27PF 200V 10% NPO AXIAL CER	<u> </u>
C202	C 8576-8	100UF 35V 10% ALUM ELECT T/A	<u> </u>
C205	C 6812-9	47PF 200V 10% NPO AXL CER	<u>H 1</u> G 2
C207	C 5311-3	22UF 50V 20% NP VERT T/A	
C208	C 9464-6	10PF 100V 5% NPO RAD CER T/R	F 1 F 2
C209	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	<u> </u>
C210	C 6812-9	47PF 200V 10% NPO AXL CER	F 2
C211	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C213	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
213 2214	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
215	C 6805-3	.022UF 100V AXIALCER T/R 223	E3
215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
2217	C 6806-1	.01UF 100V AXIAL CER T/R 103	<u> </u>
2218	C 6814-5	12PF 200V AXIAL CER T/R 120	
219	C 6814-5	12PF 200V AXIAL CER T/R 120	D 2
	1	LET ADDY WATNE DER 1/11 120	
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RTY OF CR	OWN INTERNATIONAL, INC.	AND DRAWN TLM 06-09-97 DWG, NO.	SHEET 8

		PARTS LIST	Lun : a=
REF DES		DESCRIPTION	MAP LOC.
C220	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	A 5
C221	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222	C 6807-9	.001UF 100V 10% AXL CER T/R	A 5
C223	C 6807-9	.001UF 100V 10% AXL CER T/R	<u>B5</u>
C224	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
C225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1	100PF 200V 10% NPO AXL CER T/R	F 4
C227	C 6950-7	B2PF 200V 5% NPO AXIAL CER T/R	F 3
C228	C 6812-9	47PF 200V 10% NPO AXL CER	<u>F 3</u> F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3 F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	<u> </u>
C234	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C237	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C240	C 7964-7	.22UF 100V AXIAL CER CAP T/R	A 4
C241	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	B 3
C244	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104 .1UF 50V AXIAL CER T/R 104	B 4
C245 C246	C 7964-7	.22UF 100V AXIAL CER CAP T/R	B 4
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	
C248	C10587-1	220UF 25V 20% NP RAD ELECT T/R	C 5
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C250	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C256	2 003/ 0	DO NOT INSTALL	D 4
C257		DO NOT INSTALL	D 4
C258	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u> </u>
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	СЭ
C262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	86
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	G 2
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЭ
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	СЗ
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 1
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
DЭ	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u>G 4</u>
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
D5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
<u>D8</u>	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
D9	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u>H 6</u>
D10	C 3181-2	DIODE, 1N414B T/R	НБ
D11	C 3181-2	DIODE, 1N414B T/R	Нб
D12	C 3181-2	DIODE, 1N414B T/R	Нб
D13	<u>C 3181-2</u>	DIODE, 1N414B T/R	<u> </u>
D100	<u>C 3181-2</u>	DIODE, 1N4148 T/R	К 2
D101	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u>K 2</u>
D102	C 3181-2	DIODE, 1N4148 T/R	
D103	C 3181-2	DIODE, 1N414B T/R	
D104	<u>C 3181-2</u>	DIODE, 1N414B T/R	МЗ
D105 D106	<u>C 3181-2</u>	DIODE, 1N414B T/R	<u>M 3</u>
D106	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	ЕМ
		DIODE, 1N414B T/R	Е М
D108	<u>C 3181-2</u>	DIODE, 1N414B T/R	<u>M 2</u>
D109	<u>C 3181-2</u>	DIODE, 1N414B T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	<u>M 2</u>
D111 D112	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	05
D112 D113	C 5061-4	DIODE, 1N4148 T/R	P 5
D114	C 5061-4	DIODE, 1N3070 10K/T&R	ЕМ
D114 D115	C 3181-2	DIODE, 1N3070 10K/T&R	<u>K 4</u>
D116	C 3181-2	DIODE, 1N4148 T/R DIODE, 1N4148 T/R	<u>K 4</u>
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	К З Ј З
D119	C 3181-2	DIODE, 1N4148 T/R	L J J
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	C 3181-2	DIODE, 1N4148 T/R	
D123	C 3181-2	DIODE, 1N4148 T/R	
D124	C 3181-2	DIODE, 1N4148 T/R	
D125	C 3181-2	DIODE, 1N4148 T/R	
D127	C 3181-2	DIODE, 1N4148 T/R	
D128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
D129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D130	C 3181-2	DIODE, 1N4148 T/R	К 4
D131	C 3181-2	DIODE, 1N4148 T/R	КЭ
D132	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D133	C 3181-2	DIODE, 1N4148 T/R	
D134	C 3181-2	DIODE, 1N4148 T/R	J Z
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E DRAWINGS	For Reference		AL INC
ERTY_OF_CRO	WN INTERNATIONAL, I	NC. AND DRAWN TLM 06-09-97 DWG. NO.	SHEET 10

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
D200	C 3181-2	DIODE, 1N4148 T/R	F 2
D2Ø1	C 3181-2	DIODE, 1N4148 T/R	F 2
D202	C 3181-2	DIODE, 1N4148 T/R	EЭ
D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D204	C 3181-2	DIODE, 1N4148 T/R	DЗ
D205	C 3181-2	DIODE, 1N4148 T/R	DЭ
D206	C 3181-2	DIODE, 1N4148 T/R	DЭ
D207	C 3181-2	DIODE, 1N4148 T/R	DЗ
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D209	C 3181-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D211	C 3181-2	DIODE, 1N4148 T/R	B 5
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D213	C 5061-4	DIODE, 1N3070 10K/T&R	DЗ
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
		DIODE, 1N4148 T/R	F 3
D216	C 3181-2		F 3
D217	C 5061-4		G 3
D218	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u> </u>
D219	<u>C 3181-2</u>	DIODE, 1N4148 T/R	
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	E A
D221	C 3181-2	DIODE, 1N414B T/R	<u>E 5</u>
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	C 3181-2	DIODE, 1N4148 T/R	G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	М 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	5.5" CABLE TIE	A 6
HWB	C 8812-7		
HW9	C 8812-7	5.5" CABLE TIE	N 6
HW10	C 8812-7	5.5" CABLE TIE	P 6
J1	C 7526-4	3POS .1 CENTER MTA HEADER	I 6
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J7Ø1	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
	For Reference Us		HONE (219) 294-8888
PERTY OF CRO LL NOT BE RE THE BASIS FO APPARATUS DR	AND SPECIFICATIONS AF WN INTERNATIONAL, ING PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	DRAWN TLM 06-09-97 DWG. NO. SALE ISSSION. PROJ. MD360D6 102789	SHEET 11 RE CONT. ON SHEET 12

<u></u>		PARTS LIST	
REF DES	6 C.P.N.	DESCRIPTION	MAP LOC.
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	86
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, 14PIN, VERT, DOUBLE ROW	H 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	E 3
Q100	C 3625-8	2N4125 30V PNP T/R	К 2
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	К 2
0102	D 2961-7	5P58010 60V NPN T/R	M 4
0103	C 3786-8	MPS4250A 40V PNP T/R	M 2
Q1Ø4	C 3578-9	MPSA93 200V PNP T/R	МЗ
0105	C 3810-6	MPSA42 300V NPN T/R	M 2
0106	C 3578-9	MPSA93 200V PNP T/R	M 2
Q107	C 5891-4	MTS105 THERMAL SENSE T/R	05
0108	C 3786-8	MPS4250A 40V PNP T/R	05
0109	C 3810-6	MPSA42 300V NPN T/R	M 4
Q110	C 5891-4	MTS105 THERMAL SENSE T/R	05
Q111	C 3786-8	MPS4250A 40V PNP T/R	05
0112	D 2962-5	MPSA18 45V NPN T/R	К 4
0113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	J 3
0115	C 3786-8	MP54250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	0 1
Q117	C 7458-0	2N4123 30V NPN T/R	0 1
Q118	C 3625-8	2N4125 30V PNP T/R	M 5
Q119	C 7458-0	2N1123 30V NPN T/R	M 5
0120	C 3625-8	2N4125 30V PNP T/R	M 4
	C 7458-0	2N4123 30V NPN T/R	M 4
0121	C 3625-8	2N4125 30V PNP T/R	M 4
0122	C 3625-8	2N4125 30V PNP T/R	M 5
Q123	and the second	2N4125 30V PNP T/R	M 4
0124	C 3625-8	2N4125 30V PNP T/R	M 4
0125	C 3625-8	2N4123 30V NPN T/R	L 4
0126	C 7458-0 C 3810-6	MPSA42 300V NPN T/R	К 4
0127		2N4123 30V NPN T/R	M 4
0128	C 7458-0	2N4125 30V NPN T/R	M 4
0129	C 3625-8	MPSA93 200V PNP T/R	L 4
0130	C 3578-9	J202 N-CHANNEL JFET	J 6
0131	C 7597-5		F 2
0200	C 3625-8	2N4125 30V PNP T/R	F 2
0201	C 3625-8	2N4125 30V PNP T/R	D 4
0202	D 2961-7	SPS8010 60V NPN T/R	D 4
0203	C 3786-8	MPS4250A 40V PNP T/R	D 2
Q204	C 3578-9	MPSA93 200V PNP T/R	
0205	C 3810-6	MPSA42 300V NPN T/R	
0206	C 3578-9	MPSA93 200V PNP T/R	
Q2Ø7	C 5891-4	MTS105 THERMAL SENSE T/R	<u>A 5</u>
Q2Ø8	C 3786-8	MPS4250A 40V PNP T/R	A 5
Q2Ø9	C 3810-6	MPSA42 300V NPN T/R	D 4
	***************************************	CROWN INTERNATIO	
SE DRAWINGS PERTY OF CI	5 AND SPECIFICATIONS ROWN INTERNATIONAL, REPRODUCED, COPIED, FOR THE MANUFACTURE OR DEVICES WITHOUT P	ARE THE INC. AND OR USED OR SALE EMMISSION, PROJ. MD360D8 10278	PHONE (219) 294-80 SHEET 12 CONT. ON SHEET 13

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
Q211	C 3786-8	MPS4250A 40V PNP T/R	B 5
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	G 4
0214	C 3625-8	2N4125 30V PNP T/R	G 3
0215	C 3786-8	MPS4250A 40V PNP T/R	F 3
0216	C 3625-8	2N4125 30V PNP T/R	B 1
0217	C 7458-0	2N4123 30V NPN T/R	B 1
0218	C 3625-8	2N4125 30V PNP T/R	C 5
0219	C 7458-0	2N4123 30V NPN T/R	C 5
0220	C 3625-8	2N4125 30V PNP T/R	C 4
Q221	C 7458-0	2N4123 30V NPN T/R	C 4
0222	C 3625-8	2N4125 30V PNP T/R	C 4
0223	C 3625-8	2N4125 30V PNP T/R	D 5
Q224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	<u>C 3625-8</u>	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
0228	C 7458-0	2N4123 30V NPN T/R	D 4
0229	C 3625-8	2N4125 30V PNP T/R	D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
Q231	C 7597-5	J202 N-CHANNEL JFET	G 6
R1	A10265-46421	46.4 KOHM .25W 1% MF T/R	E 2
R2	A10265-53621	53.6 KOHM .25W 1% MF T/R	F 2
R4	A10265-10031		G 5
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	<u> </u>
R6	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R7	A10265-10031		F 5
RB	A10266-1051	1.0 MOHM . 25W 5 CF T/R	H 2
R9	A10266-1051	1.0 MDHM .25W 5 CF T/R	H 2
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u>H 2</u>
R11 R12	A10266-9111	910. OHM .25W 5 CF T/R	I 2
R12	A10124-24 A10124-24	WIRE, #24 SOLID BUS	J 6
R14	A10124-24 A10266-3921	WIRE, #24 SOLID BUS 3.9 KOHM .25W 5% CF T/R	H 6
R15	A10266-3921	3.9 KOHM .25W 5% CF T/R 3.9 KOHM .25W 5% CF T/R	G 5 G 6
R16	A10266-5641	560. KOHM .25W 5% CF T/R	<u> </u>
R17	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 6
R18	A10266-2421	2.4 KOHM .25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM .25W 5 CF T/R	<u> </u>
R20	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R21	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R22	A10266-1051	1.0 MDHM .25W 5 CF T/R	H 5
R23	A10266-2051	2.0 MOHM .25W 5 CF T/R	H 5
R24	A10266-1031	10. KOHM . 25W 5% CF T/R	IG
R25	A10265-10011	1.0 KOHM .25W 1 MF T/R	IG
R100	A10265-10021	10. KOHM . 25W 1 MF T/R	J 3
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	INACTIVE		
DRAWINGS	ND SPECIFICATIONS AR N INTERNATIONAL, INC RODUCED, COPIED, OR I THE MANUFACTURE OR S DEVICES WITHOUT PERMI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	AL INL PHONE (219) 294-8 ELEET 13

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R101	A10265-10021	10. KOHM .25W 1 MF T/R	L J
R102	A10265-10021	10. KOHM .25W 1 MF T/R	ЪЗ
R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
R104	A10265-10021	10. KOHM .25W 1 MF T/R	J 2
R105	A10265-49911	4.99KOHM .25W 1 MF T/R	IЗ
R106	A10265-49911	4.99KOHM .25W 1 MF T/R	IЭ
R107	101051-1	5K, , 10%, LINEAR W/21 DETENT	J 2
R108	A10265-76811	7.68 KOHM .25W 1% MF T/R	I 1
R109	A10265-24921	24.9 KOHM .25W 1% MF T/R	I 1
R110	A10265-69811	6.98 KOHM .25W 1% MF T/R	I 1
R111	A10265-24921	24.9 KOHM .25W 1% MF T/R	K 2
R112	A10266-2201	22.0 OHM .25W 5 CF T/R	J 2
R113	A10265-49911	4.99KOHM .25W 1 MF T/R	К 2
R114	A10265-10031	100. KOHM .25W 1 MF T/R	K 2
R115	A10265-15031	150 KOHM .25 1% MF T/R	J 4
R116	A10265-10721	10.7KOHM .25W 1% MF T/R	I 4
R117	A10265-20031	200.KOHM .25W 1 MF T/R	IЭ
R118	A10265-10521	10.5KOHM .25W 1% MF T/R	IЗ
R119	A10265-10031	100. KOHM .25W 1 MF T/R	К 2
R120	A10266-5111	510. OHM .25W 5 CF T/R	K 2
R121	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	K 2
R122	A10266-1321	1.3 KOHM .25W 5 CF T/R	K 2
R123	A10265-49911	4.99KOHM .25W 1 MF T/R	K 2
R124	A10266-1231	12.KOHM .25W 5% CF T/R	L 3
R125	A10266-1231	12.KOHM .25W 5% CF T/R	L 2
R126	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 3
R127	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 2
R128	A10266-6831	68. KOHM.25W 5% CF T/R	L 3
R129	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R130	A10265-10031	100. KOHM .25W 1 MF T/R	L 3
R131	A10265-10031	100. KOHM .25W 1 MF T/R	L 2
R132	A10266-4701	47.0 OHM .25W 5 CF T/R	L 4
R133	A10266-4701	47.0 OHM .25W 5 CF T/R	Ļ 2
R134	A10266-4711	470. OHM .25W 5% CF T/R	МЭ
R135	A10266-2201	22.0 OHM .25W 5 CF T/R	МЭ
R1 36	A10266-8211	820. OHM .25W 5% CF T/R	МЭ
R137	A10266-8211	820. OHM .25W 5% CF T/R	M 2
R138	A10266-2201	22.0 OHM .25W 5 CF T/R	M 2
R139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
R140	A10266-4721	4.7 KOHM .25W 5% CF T/R	P 5
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
R142	A10265-66501	665. OHM .25W 1 MF T/R	05
R143	A10265-27401	274. OHM .25W 1% MF T/R	P 5
R144	A10265-27401	274. OHM .25W 1% MF T/R	05
R145	A10265-66501	665. OHM .25W 1 MF T/R	05
R146	A10265-66501	665. OHM .25W 1 MF T/R	05
R147	A10265-66501	665. OHM .25W 1 MF T/R	05
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	For Reference U		
			AL INC.
DRAWINGS /	ND SPECIFICATIONS AR NN INTERNATIONAL, INC PRODUCED, COPIED, OR I THE MANUFACTURE OR S DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 F	PHONE (219) 294-801
DTV OF ODO	IN THTEDNATTONAL THE	AND DRAWN TLM 06-09-97 DWG. NO.	SHEET 14

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R148	A10266-1041	100. KOHM .25W 5% CF25 T/R	P 5
R149	A10265-35711	3.57KOHM .25W 1 MF T/R	P 5
R150	A10265-35711		05
R151	A10266-1041	100. KOHM . 25W 5% CF25 T/R	05
R152	C 8836-6	100 OHM .5W 5% FU/FP T/R	К 4
R153	A10266-1031	10. KOHM .25W 5% CF T/R	К 4
R154	A10266-2721	2.7 KOHM . 25W 5 CF T/R	КЗ
R155	C 8836-6	100 OHM .5W 5% FU/FP T/R	КЗ
R156	A10266-1031	10. KOHM.25W 5% CF T/R	КЭ
R157	A10266-2721	2.7 KOHM .25W 5 CF T/R	КЗ
R158	A10266-3021	3.0 KOHM .25W 5 CF T/R	J 4
R159	A10265-10011	1.0 KOHM .25W 1 MF T/R	КЭ
R160	A10265-10021	10. KOHM . 25W 1 MF T/R	JЗ
R161	A10266-4721	4.7 KOHM .25W 5% CF T/R	ΕL
R162	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
R163	A10265-10021	10. KOHM . 25W 1 MF T/R	J 3
R164	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	КЗ
R165	A10265-27431		J 4
R166	A10265-95311		I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
R169	A10265-27431		J 2
R170	A10265-95311		J 2
R171	A10266-5621	5.6 KOHM .25W 5% CF T/R	Р 3
R172	A10266-1541	150. KOHM .25W 5% CF T/R	ОЗ
R173		17.8KOHM .25W 1% MF T/R	03
R174	A10265-24921		03
R175	A10265-49911		03
R176		6.81KOHM .25W 1% MF T/R	03
R177	A10265-33221	33.2KOHM .25W 1% MF T/R	04
R178	A10265-10021	10. KOHM .25W 1 MF T/R	D 4
R179	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R180	A10265-20011	2.0 KOHM .25W 1% MF T/R	03
R181	A10265-10001	100. OHM .25W 1 MF T/R	02
R182	A10265-51121	51.1 KOHM .25W 1% MF T/R	02
R183	A10265-68111	6.81KOHM .25W 1% MF T/R	02
R184	A10265-10001	100. OHM .25W 1 MF T/R	02
R185	A10266-2741	270. KOHM .25W 5% CF25 T/R	02
R186	C 5062-2	100KOHM LINEAR TRIMPOT	02
R187	A10265-14721	14.7 KOHM .25W 1% MF T/R	04
R188	A10265-30921	30.9 KOHM .25W 1% MF T/R	04
R189	A10265-19121	19.1KOHM .25W 1% MF T/R	04
R190	A10265-33221	33.2KOHM .25W 1% MF T/R	P 3
R191	A10265-10021	10. KOHM.25W1 MF T/R	РЭ
R192	A10265-20011	2.0 KOHM .25W 1% MF T/R	Р 3
R193	A10265-20011	2.0 KOHM .25W 1% MF T/R	P 4
R194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
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	For Reference		AL INC.
SE DRAWINGS	AND SPECIFICATIONS AR WAN INTERNATIONAL. INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART. INDIANA 46517 F	SHEET 15

REF DE	SC.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R195	A10265-10001		P 2
R196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
R197	A10265-68111		P 2
R198	A10265-10001		P 2
R199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
R200	A10265-10021		G G G
R201	A10265-10021		G 3
R202	A10265-10021		G 3
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	Н 1
R204	A10265-10021		G 2
R205	A10265-49911		НЗ
R206	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
7207	101051-1	5K, , 10%, LINEAR W/21 DETENT	F 2
7208	A10265-76811	7.68 KOHM .25W 1% MF T/R	H 1
7209	A10265-24921		Н 1
7210	A10265-69811	6.98 KOHM .25W 1% MF T/R	H 1
7211	A10265-24921		F 2
7212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
7213	A10265-49911		F 2
7214	A10265-10031	100. KOHM . 25W 1 MF T/R	F 2
7215	A10265-15031	150 KOHM .25 1% MF T/R	<u> </u>
7216	A10265-10721	10.7KOHM .25W 1% MF T/R	H 4
7217	A10265-20031	200.KOHM . 25W 1 MF T/R	НЗ
7218	A10265-10521	10.5KOHM .25W 1% MF T/R	НЗ
7219	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
1220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
7221	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
1222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
7223	A10265-49911		F 2
7224	A10266-1231	12.KOHM .25W 5% CF T/R	E 3
1225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
R226	A10266-2721	2.7 KOHM .25W 5 CF T/R	ЕЗ
1227	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
1228	A10266-6831	68. KOHM .25W 5% CF T/R	E3
1229	A10266-6831	68. KOHM .25W 5% CF T/R	EЭ
230	A10265-10031	100. KOHM .25W 1 MF T/R	ЕЗ
1231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
232	A10266-4701	47.0 OHM .25W 5 CF T/R	E 4
233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
234	A10266-4711	470. OHM .25W 5% CF T/R	D 3
235	A10266-2201	22.0 OHM .25W 5 CF T/R	D 3
236	A10266-8211	820. OHM . 25W 5% CF T/R	DЗ
237	A10266-8211	820. OHM . 25W 5% CF T/R	D 2
238	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
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	INACT For Reference		AL TAIC
DRAWINGS	AND SPECIFICATIONS ARE MN INTERNATIONAL, INC. PRODUCED, COPIED, OR U 7 THE MANUFACTURE OR S DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 F	HONE (219) 294

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
7242		665. OHM .25W 1 MF T/R	85
7243	A10265-27401		A 5
7244	A10265-27401		B 5
7245	A10265-66501		B 5
7246	A10265-66501	665. OHM .25W 1 MF T/R	B 5
7247	A10265-66501	665. OHM .25W 1 MF T/R	85
7248	A10266-1041	100. KOHM .25W 5% CF25 T/R	A 5
7249	A10265-35711	3.57KOHM .25W 1 MF T/R	A 5
7250	A10265-35711	3.57KOHM .25W 1 MF T/R	B 5
7251	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 5
7252	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 4
7253	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
7254	A10266-2721	2.7 KOHM .25W 5 CF T/R	Е З
7255	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 3
7256	A10266-1031	10. KOHM .25W 5% CF T/R	Е З
7257	A10266-2721	2.7 KOHM .25W 5 CF T/R	EЗ
7258	A10266-3021	3.0 KOHM .25W 5 CF T/R	G 4
7259	A10265-10011	1.0 KOHM .25W 1 MF T/R	F 3
R260	A10265-10021	10. KOHM.25W1 MF T/R	GЭ
7261	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
7262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
7263	A10265-10021	10. KOHM.25W1 MF T/R	. G 3
7264	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	FЗ
7265		274.KOHM .25W 1% MF T/R	G 4
7266		9.53KOHM .25W 1% MF T/R	H 4
7267	A10266-1321	1.3 KOHM .25W 5 CF T/R	FЭ
7268	A10124-24	WIRE, #24 SOLID BUS	F 3
7269	A10265-27431	274.KOHM .25W 1% MF T/R	G 2
7270		9.53KOHM .25W 1% MF T/R	<u> </u>
7271	A10266-5621	5.6 KOHM .25W 5% CF T/R	ВЗ
7272	A10266-1541	150. KOHM . 25W 5% CF T/R	<u>A 3</u>
7273		17.8KOHM .25W 1% MF T/R	<u> </u>
7274	A10265-24921	24.9 KOHM .25W 1% MF T/R	E A
7275	A10265-49911	4.99KOHM .25W 1 MF T/R	A 3
7276	A10265-68111	6.81KOHM .25W 1% MF T/R	<u> </u>
277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
7278	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
279	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
280	A10265-20011 A10265-10001	2.0 KOHM .25W 1% MF T/R	E A
7281		100. OHM .25W 1 MF T/R	A 2
7282 7283	A10265-51121 A10265-68111	51.1 KOHM .25W 1% MF T/R	A 2 A 2
7283	A10265-10001	6.81KOHM .25W 1% MF T/R 100. OHM .25W 1 MF T/R	
7285	A10265-10001		A 2
7286	C 5062-2	270. KOHM .25W 5% CF25 T/R 100KOHM LINEAR TRIMPOT	A 2 A 2
1287	A10265-14721	14.7 KOHM .25W 1% MF T/R	
7288	A10265-30921	30.9 KOHM .25W 1% MF T/R	A 4
1200	A10203-30321	JU.J NUMM . 20W 1/6 MF 1/M	A 4
			<u> </u>
	For Reference I		AL INC
DRAWINGS	AND SPECIFICATIONS AR OWN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR 1 DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-6

		PARTS LIST DESCRIPTION	MAP LOC.
		19.1KOHM .25W 1% MF T/R	A 4
289		33.2KOHM .25W 1% MF T/R	ВЗ
7290		10. KOHM . 25W 1 MF T/R	ВЭ
R291	A10265-10021	2.0 KOHM .25W 1% MF T/R	B 4
R292		2.0 KOHM .25W 1% MF T/R	B 4
R293		6.81KOHM .25W 1% MF T/R	вэ
R294	A10265-60111 A10265-10001		B 2
R295		51.1 KOHM . 25W 1% MF T/R	B 2
R296	A10265-51121	6.81KOHM .25W 1% MF T/R	B 2
R297		100. OHM . 25W 1 MF T/R	B 2
R298		270. KOHM . 25W 5% CF25 T/R	B 2
R299	A10266-2741	100KOHM LINEAR TRIMPOT	P 2
R300	C 5062-2	14.7 KOHM .25W 1% MF T/R	P 4
R301	A10265-14721 A10265-30921	30,9 KOHM .25W 1% MF T/R	P 4
R302		19.1KOHM .25W 1% MF T/R	P 4
R303			P 4
R304	A10265-39221		P 4
R305		357.KOHM .25W 1 MF T/R 3.0 KOHM .25W 5 CF T/R	0 1
R306	A10266-3021		0 1
R307	A10266-1521		0 1
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R 22. OHM .25W 5% FU/FP T/R	N 5
R309	C 7779-9		N 5
R310	A10266-4711		N 5
R311	A10266-4711	470. OHM .25W 5% CF T/R 22. OHM .25W 5% FU/FP T/R	N 5
R312	C 7779-9	470. OHM .25W 5% CF T/R	N 5
R313	A10266-4711 C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R314		470. OHM .25W 5% CF T/R	N 4
R315	A10266-4711 A10266-4711	470. OHM .25W 5% CF T/R	N 4
R316	A10266-4711	470. OHM .25W 5% CF T/R	N 4
R317	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R318	A10266-2731	27. KOHM . 25W 5 CF T/R	N 5
R319	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R320 R321	A10266-3321	3.3 KOHM .25W 5% CF T/R	L 5
R321	A10266-2051	2.0 MDHM . 25W 5 CF T/R	К 5
R322	A10266-1521	1.5 KOHM . 25W 5% CF T/R	L 5
R323	A10266-4711	470. OHM . 25W 5% CF T/R	К 5
	A10266-1041	100. KOHM . 25W 5% CF25 T/R	К 5
R325 R326	A10266-5121	5.1 KOHM .25W 5 CF T/R	К 5
R326	A10266-7521	7.5 KOHM .25W 5% CF T/R	K 5
R327	A10266-8231	82. KOHM . 25W 5% CF T/R	L 5
R328	A10265-51121	51.1 KOHM .25W 1% MF T/R	L 6
R329	A10265-51121	470. KOHM . 25W 5% CF T/R	L 5
R330	A10266-2751	2.7 MDHM .25W 5% CF T/R	L 5
R331	A10266-1041	100. KOHM .25W 5% CF25 T/R	JG
R338	A10266-1041	47. KOHM . 25W 5% CF25 T/R	JG
		5.1 KOHM .25W 5 CF T/R	L 6
R340	A10266-5121	20. KOHM .25W 5 CF T/R	L 6
R341	A10266-2031	20. KURM . 23W 3 CF 17H	
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	INACT		
	For Reference		NAL INC
		1710 WEST MISHAWAKA BOAD ELKHART, INDIANA 46517	PHONE (219) 294-
	S AND SPECIFICATIONS AR ROWN INTERNATIONAL, INC Reproduced, copied, or For the Manufacture or or devices without perm	DRAWN TLM 26-29-97 DWG. NO.	SHEET 18 CONT. ON SHEET 19

REF DES	C. P. N.	PARTS LIST DESCRIPTION	
R342	A10266-3921	3.9 KOHM .25W 5% CF T/R	MAP LOC.
R343	A10266-1031	10. KOHM .25W 5% CF T/R	<u> </u>
R344	A10266-4731		L 5
R345	A10266-1031	47. KOHM .25W 5% CF25 T/R 10. KOHM .25W 5% CF T/R	
R346	A10266-4731		L 5
R347	A10266-1031		
7348	A10266-1031		
7349	A10266-1031	10. KOHM .25W 5% CF T/R 10. KOHM .25W 5% CF T/R	
7350	A10266-4701	47.0 OHM .25W 5 CF T/R	
7351	A10266-2031		L 5
7352	A10266-1031		<u>K 4</u>
7353	A10266-4731		
7354	A10266-4731		L 4
7355	A10266-4731		
356	A10266-4731		
R350 R357	A10266-1031		
3358	A10266-2031		L 5
7359	A10265-10R01		
7360	A10266-1211	120. OHM .25W 5 CF T/R	N 4
361	C 6048-0	500 OHM PIHER TRIM	N 4
362	A10265-10R01		N 4
363	A10265-30111		N 4
R364		18.2KOHM .25W 1% MF T/R	E N
365	A10205-10221 A10265-30111		<u>N 3</u>
7366			N 3
367	A10205-10221		N 3
1368	A10265-4711	1.0 KOHM .25W 1 MF T/R 470. OHM .25W 5% CF T/R	ВЗ
369	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R400	C 5062-2	100KOHM LINEAR TRIMPOT	J 4
7401		14.7 KDHM .25W 1% MF T/R	B 2
7402		30,9 KOHM .25W 1% MF T/R	<u>B4</u>
R403		19.1KOHM .25W 1% MF T/R	B 4
1403		39.2KOHM .25W 1% MF T/R	<u>B 4</u>
1405		357.KOHM .25W 1 MF T/R	B 4
R406	A10266-3021	3.0 KOHM .25W 5 CF T/R	B 5
1100	A10266-1521	1.5 KOHM .25W 5% CF T/R	
1408	A10266-1041	100. KOHM .25W 5% CF25 T/R	
1400	C 7779-9	22. OHM .25W 5% FU/FP T/R	
R410	A10266-4711	470. OHM .25W 5% CF T/R	C 5 C 5
1411	A10266-4711	470. OHM .25W 5% CF T/R	
1412	C 7779-9	22. OHM .25W 5% FU/FP T/R	
1413	A10266-4711	470. OHM .25W 5% CF T/R	
1414	C 7779-9	22. OHM .25W 5% FU/FP T/R	
1415	A10266-4711	470. OHM .25W 5% CF T/R	
1415	A10266-4711	470. OHM .25W 5% CF T/R	
1417	A10266-4711	470. OHM .25W 5% CF T/R	
1418	C 7779-9	22. OHM .25W 5% FU/FP T/R	
		22. UIM . 23W 3% FU/FF 1/H	<u> </u>
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RTY OF CROW	N INTERNATIONAL, INC.	AND DRAWN TLM 08-09-97 DWG. NO.	SHEET 19

REF DE	SC.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM .25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
7422	A10266-2051	2.0 MOHM . 25W 5 CF T/R	F 5
7423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
7424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
7425	A10266-1041	100. KOHM . 25W 5% CF25 T/R	F 5
7426	A10266-5121	5.1 KDHM .25W 5 CF T/R	F 5
7427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
7428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
7429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
7430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
7431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
7438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
7439	A10266-4731	47. KOHM .25W 5% CF25 T/R	GG
7440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
7441	A10266-2031	20. KOHM .25W 5 CF T/R	E 6
7442	A10266-3921	3.9 KOHM . 25W 5% CF T/R	E 5
7443	A10266-1031	10. KOHM . 25W 5% CF T/R	E 5
7444	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
7445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
1446	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
7447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
7448	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
1449	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
1450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
1451	A10266-2031	20. KOHM . 25W 5 CF T/R	F 4
1452	A10266-1031	10. KOHM . 25W 5% CF T/R	E 4
1453	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
1454	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
1455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
8456	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
1457	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
1458	A10266-2031	20. KOHM . 25W 5 CF T/R	E 4
1459	A10265-10R01	10.0 OHM .25W 1 MF T/R	С Э
460	A10266-1211	120. OHM .25W 5 CF T/R	
461	C 6048-0	500 OHM PIHER TRIM	
462	A10265-10R01	10.0 OHM . 25W 1 MF T/R	
463	A10265-30111	3.01KOHM .25W 1 MF T/R	
464	A10265-18221	18.2KOHM .25W 1% MF T/R	
465	A10265-30111	3.01KOHM .25W 1 MF T/R	
466	A10265-18221	18.2KOHM .25W 1% MF T/R	
467	A10265-10011	1.0 KOHM . 25W 1 MF T/R	
468	A10266-4711	470. OHM . 25W 5% CF T/R	
469	A10266-4711	470. OHM .25W 5% CF T/R	<u> </u>
1	C 7960-5	DPDT 3POS PC SLIDE SWITCH	
2	C 6781-6	6P3T MOND/STEREO SWITCH	
-		C. C. MONO/ DILILO DWIILD	<u> </u>
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	For Reference Use Only	LRUWN INTERNATION	
DRAWINGS	AND SPECIFICATIONS ARE WN INTERNATIONAL, INC.	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 45517 AND DRAWN TLM 26-29-97 DWG. NO.	PHONE (219) 294

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	C.P.N.	DESCRIPTION	MAP LOC.
TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	К б
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
	C 5095-2	MC7815CT +15V. REG	Н 5
 X 1L	C 9494-3	HEATSINK, TØ22Ø PLUG IN	НБ
	C 5096-0	MC7915CT -15V. REG	I 5
	C 9494-3	HEATSINK, TØ22Ø PLUG IN	I 5
		INSTALLED ON NEXT ASSEMBLY	H 2
J3X	C 3451-9	IC SOCKET, BPIN DIP 2-640463-3	H 2
	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	F 6
 J5	102754-1	CD4060 14 STAGE BIN CNTR/OSC	НБ
100	101651-1	MC33079N QUAD OP AMP SGS ONLY	<u> </u>
101	C 7444-0	LM393 DUAL COMPARATOR	03
U102A	101374-1	2SA1349 DUAL PNP 80V SIP	0 2
	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	0 4
J104A	101375-1	25C33B1 DUAL NPN BØV SIP	P 2
U106	C 6411-0	H11C2 OPTO SCR	M 5
	C 4345-2	LM339N VOLT COMPARATOR	K 5
U109	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	N 3
U200	101651-1	MC33079N QUAD OP AMP SGS ONLY	<u> </u>
U200	C 7444-0	LM393 DUAL COMPARATOR	A 3
U202A	101374-1	25A1349 DUAL PNP 80V SIP	A 2
U202A	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	A 4
U203	101375-1	2SC3381 DUAL NPN 80V SIP	B 2
U204A	C 6411-0	H11C2 OPTO SCR	B 2
U208	C 4345-2	LM339N VOLT COMPARATOR	F 5
U207	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	<u> </u>
U102	12 /030-1	SEE NOTE 10	0 2
		SEE NOTE 10	P 2
		SEE NOTE 10	A 2
U202		SEE NOTE 10	B 2
Z1		DO NOT INSTALL	<u>C 1</u>
Z2		DO NOT INSTALL	D 1
Z3		DO NOT INSTALL	D 1
Z4			D 7
Z5		DO NOT INSTALL DO NOT INSTALL	D 2
23		DO NOT INSTALL	<u> </u>

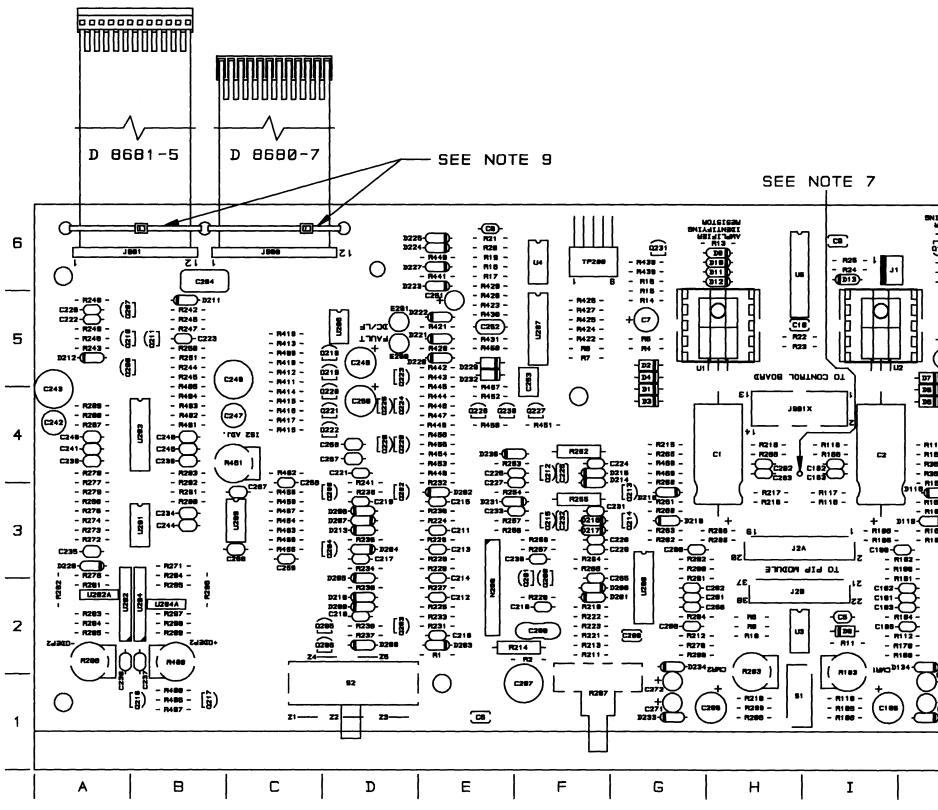
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DRAWTNER	AND SPECIFICATIONS WWN INTERNATIONAL, 1 PRODUCED, COPIED, (M THE MANUFACTURE (DEVICES WITHOUT PE	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 4651 INC. AND DRAWN TLM 06-09-97 DWG. NO.	7 PHONE (219) 294-88

COMPONENT MAP

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DWG. NO.

102789



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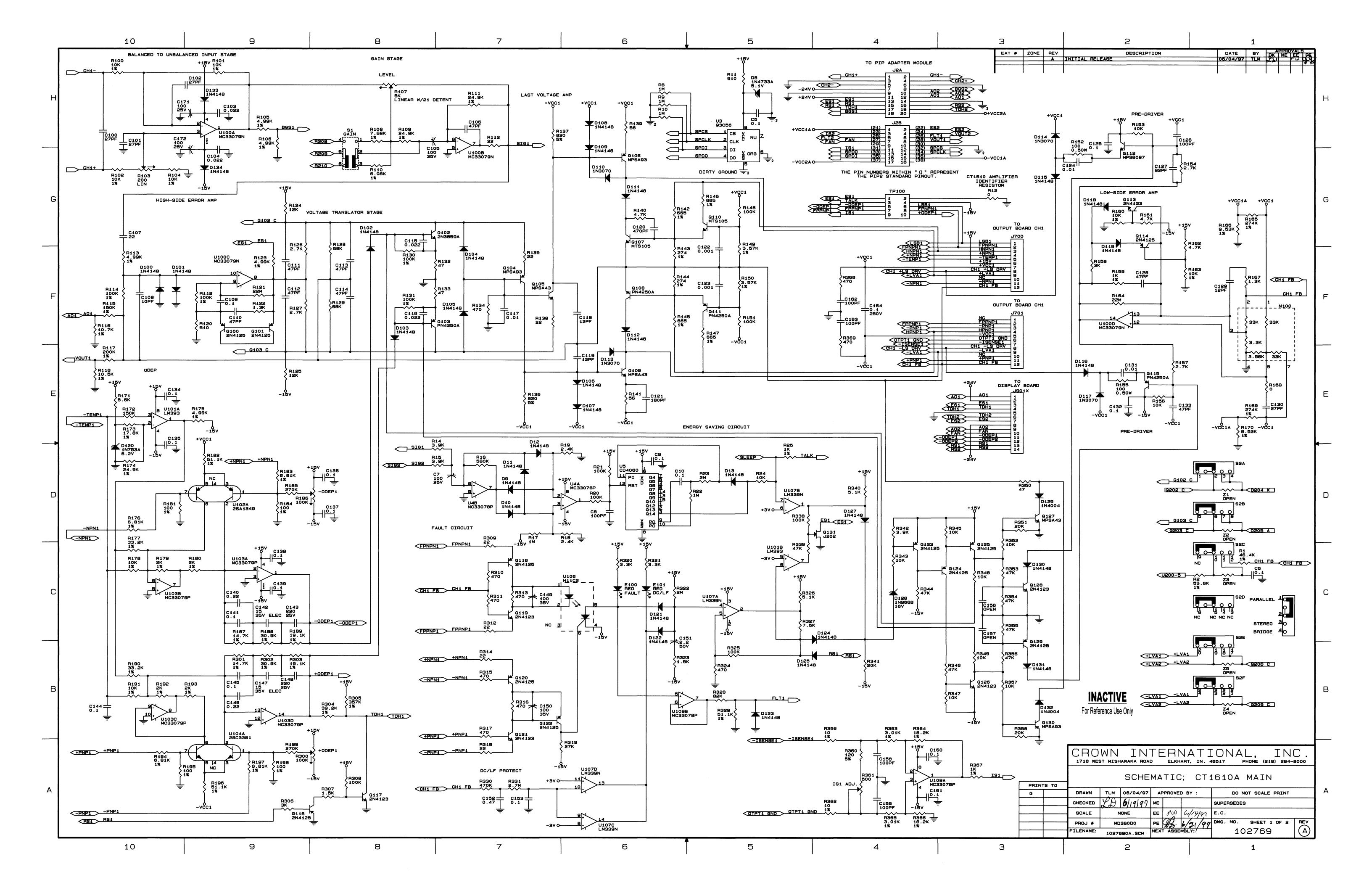
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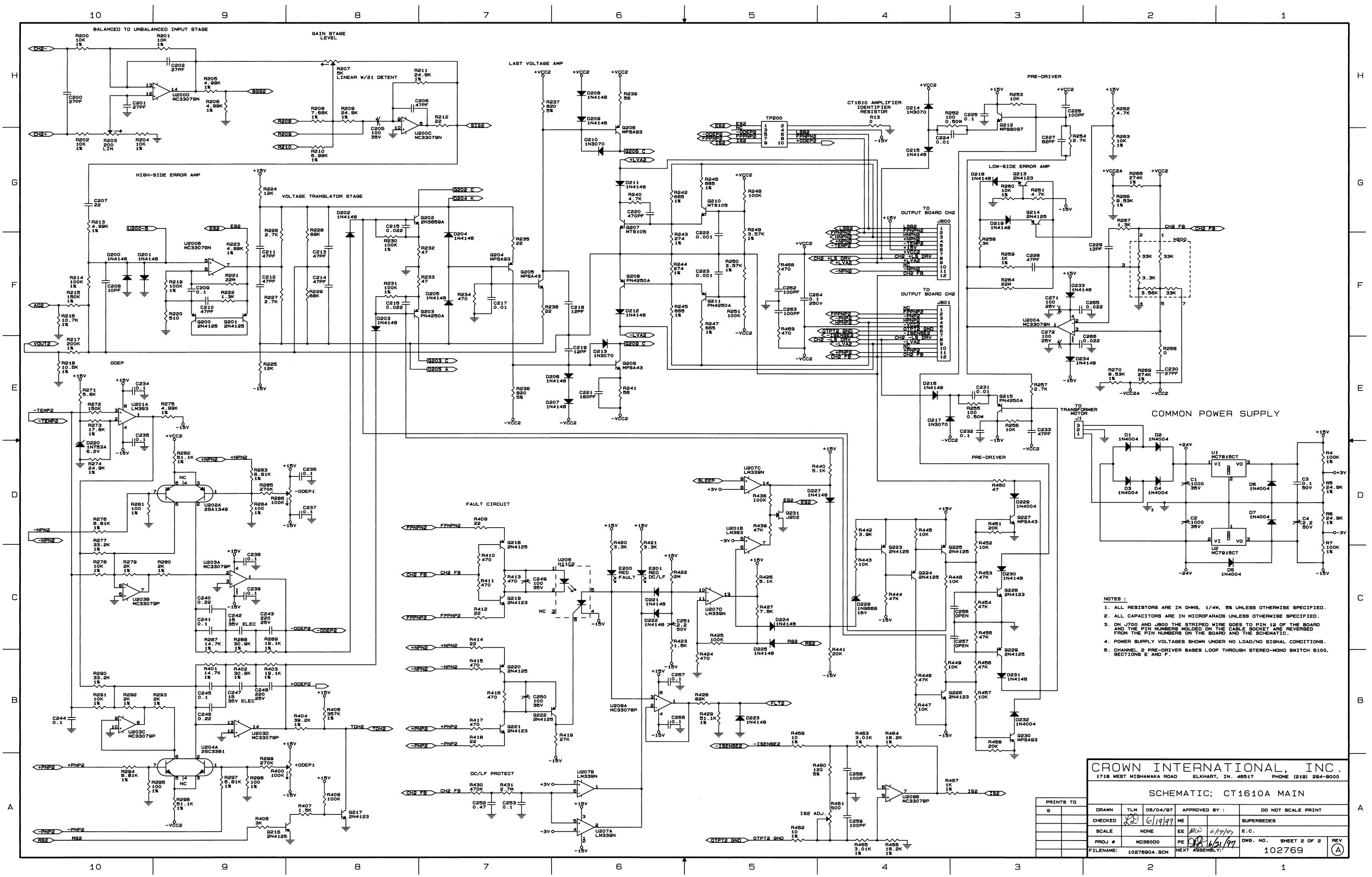
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D 8580-7 D 8581-5 D 8580-7 D 8581-5	E
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CT1610A Main Module (Dual Pot) Information On Following Pages Documentation, Component Map

E.C.N.	ZONE	REV.	DESCRIPTION	DATE	BY		DVAL	5 4
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UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

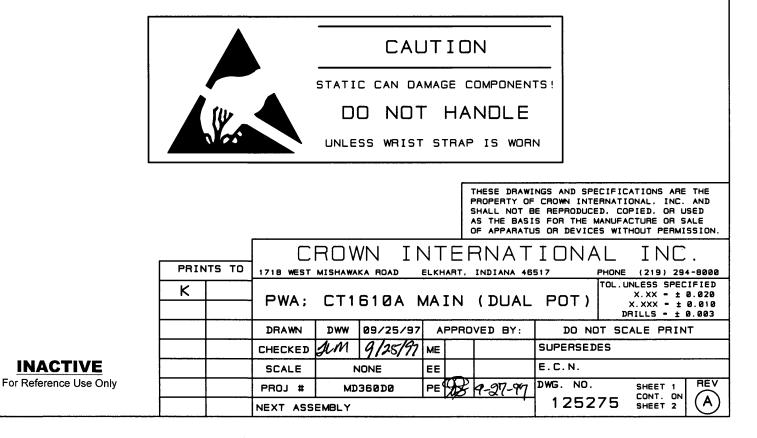
NOTES:

INACTIVE

- 1. SCHEMATIC DRAWING NUMBER 102769.
- 2. PWB PART NUMBER 125266-1.
- PWA PART NUMBER 125275-1. З.
- ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS. 4.
- POSITION COMPONENTS AS SHOWN ON COMPONENT MAP. 5.
- INSERT B PIN IC SOCKET (C 3451-9) AT REFERENCE DESIGNATION 6 LOCATION U3. IC IS INSTALLED ON A LATER ASSEMBLY.
- 7. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES INDICATED ON THE COMPONENT MAP.
- INSTALL HEATSINK (C 9494-3) AT REFERENCE DESIGNATION 8. LOCATIONS U1 AND U2.

9. INSTALL CABLE TIE (C 8812-7) AT REFERENCE DESIGNATION LOCATIONS J700, J701, J800 AND J801. 9A. USE A 0.25" DIAMETER ROD AS A GAUGE TO CHECK THE TIGHTNESS OF THE CABLES.

- ON THE COMPONENT SIDE PRESS THE CABLE AGAINST THE BOARD. THE GAUGE SHOULD NOT FIT UNDER THE CABLE TIE.
- U102, U104, U202 AND U204 ARE ALTERNATE COMPONENT PARTS. 10.
- THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE 11. P.C. BOARD AND SHALL BE PERMANENT.



	PARTS LI		
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	8"	R12, R13, R168, R268
A10265-10001	100. OHM .25W 1 MF T/R	8	R181, R184, R195, R198, R281,
			R284, R295, R298
A10265-10011	1.0 KOHM .25W 1 MF T/R	5	R159, R25, R259, R367, R467,
A10265-10021	10. KOHM .25W 1 MF T/R	16	R100,R101,R102,R104,R160,
			R163, R178, R191, R200, R201,
			R202,R204,R260,R263,R278,
			R291
A10265-10031	100. KOHM .25W 1 MF T/R	10	R114, R119, R130, R131, R214,
			R219, R230, R231, R4, R7
<u>A10265-10521</u>	10.5KOHM .25W 1% MF T/R	2	R118, R218
A10265-10721	10.7KOHM .25W 1% MF T/R	2	R116, R216
A10265-10R01	10.0 OHM .25W 1 MF T/R	4	R359,R362,R459,R462
A10265-14721	14.7 KOHM .25W 1% MF T/R	4	R187, R287, R301, R401
A10265-15031	150 KOHM .25 1% MF T/R	2	R115, R215
<u>A10265-17821</u>	17.8KOHM .25W 1% MF T/R	2	R173, R273
A10265-18221	18.2KOHM .25W 1% MF T/R	4	R364,R366,R464,R466
A10265-19121	19.1KOHM .25W 1% MF T/R	4	R189, R289, R303, R403
A10265-20011	2.0 KOHM .25W 1% MF T/R	8	R179,R180,R192,R193,R279,
			R280, R292, R293
A10265-20031	200.KOHM .25W 1 MF T/R	2	R117, R217
A10265-24921	24.9 KOHM .25W 1% MF T/R	8	R109, R111, R174, R209, R211,
			R274,R5,R6
A10265-27401	274. OHM . 25W 1% MF T/R	4	R143, R144, R243, R244
A10265-27431	274.KOHM .25W 1% MF T/R	4	R165, R169, R265, R269
A10265-30111	3.01KOHM .25W 1 MF T/R	4	R363, R365, R463, R465
A10265-30921	30.9 KOHM .25W 1% MF T/R	4	R188, R288, R302, R402
A10265-33221	33.2KOHM .25W 1% MF T/R	4	R177, R190, R277, R290
A10265-35711	3.57KOHM .25W 1 MF T/R	4	R149, R150, R249, R250
A10265-35731	357.KOHM .25W 1 MF T/R	2	R305, R405
A10265-39221	39.2KOHM .25W 1% MF T/R	2	R304, R404
A10265-46421	46.4 KOHM .25W 1% MF T/R	1	R1
A10265-49911	4.99KOHM .25W 1 MF T/R	10	R105, R106, R113, R123, R175,
			R205, R206, R213, R223, R275,
A10265-51121	51.1 KOHM .25W 1% MF T/R	6	R182, R196, R282, R296, R329,
<u> </u>			R429
A10265-53621	53.6 KOHM .25W 1% MF T/R	1	R2
A10265-66501	665. OHM . 25W 1 MF T/R	8	R142, R145, R146, R147, R242,
A10203 00301			R245, R246, R247
A10265-68111	6.81KOHM .25W 1% MF T/R	8	R176, R183, R194, R197, R276,
A10203-00111	U. UTROHME, 20W 17. ME 17.4		R283, R294, R297
A10265-60011	6.98 KOHM .25W 1% MF T/R	2	R110, R210
A10265-69811			
A10265-76811	7.68 KOHM .25W 1% MF T/R	2	R108, R208
A10265-95311	9.53KOHM .25W 1% MF T/R	4	R166, R170, R266, R270
A10266-1031	10. KOHM .25W 5% CF T/R	19	R153, R156, R24, R253, R256,
			R343, R345, R347, R348, R349,
		_	R352,R357,R443,R445,R447,
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	For Reference Use Only	I TN	NTERNATIONAL INC
	1710 WEST MICHAWAKA		
E DRAWINGS AND SPECI PERTY OF CROWN INTERN L NOT BE REPRODUCED, HE BASIS FOR THE MAN PPARATUS OR DEVICES	FICATIONS ARE THE 1718 WEST MISHAWAKA		DWG. NO. SHEET 2
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	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
			R448,R449,R452,R457
A10266-1041	100. KOHM .25W 5% CF25 T/R	12	R148,R151,R20,R21,R248,
			R251,R308,R325,R338,R408,
			R425, R438
A10266-1051	1.0 MOHM .25W 5 CF T/R	5	R10,R17,R22,R8,R9
A10266-1211	120. OHM .25W 5 CF T/R	2	R360,R460
A10266-1231	12.KOHM .25W 5% CF T/R	4	R124, R125, R224, R225
A10266-1321	1.3 KOHM .25W 5 CF T/R	4	R122, R167, R222, R267
A10266-1521	1.5 KOHM .25W 5% CF T/R	4	R307,R323,R407,R423
A10266-1541	150. KOHM .25W 5% CF T/R	2	R172, R272
A10266-2031	20. KOHM .25W 5 CF T/R	6	R341,R351,R358,R441,R451,
			R458
A10266-2051	2.0 MOHM .25W 5 CF T/R	3	R23, R322, R422
A10266-2201	22.0 OHM .25W 5 CF T/R	6	R112, R135, R138, R212, R235,
			R238
A10266-2421	2.4 KOHM .25W 5 CF T/R	2	R18, R19
A10266-2721	2.7 KOHM .25W 5 CF T/R	8	R126, R127, R154, R157, R226,
			R227, R254, R257
A10266-2731	27. KOHM .25W 5 CF T/R	2	R319, R419
A10266-2741	270. KOHM . 25W 5% CF25 T/R	4	R185, R199, R285, R299
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R331,R431
A10266-3021	3.0 KOHM .25W 5 CF T/R	4	R158, R258, R306, R406
A10266-3321	3.3 KOHM .25W 5% CF T/R	4	R320, R321, R420, R421
A10266-3921	3.9 KOHM .25W 5% CF T/R	4	R14, R15, R342, R442
A10266-4701	47.0 OHM .25W 5 CF T/R	6	R132, R133, R232, R233, R350,
			R450
A10266-4711	470. OHM .25W 5% CF T/R	20	R134, R234, R310, R311, R313,
			R315,R316,R317,R324,R368,
			R369,R410,R411,R413,R415,
			R416,R417,R424,R468,R469,
A10266-4721	4.7 KOHM .25W 5% CF T/R	6	R140, R161, R162, R240, R261,
			R262
A10266-4731	47. KOHM .25W 5% CF25 T/R	14	R339,R344,R346,R353,R354,
			R355,R356,R439,R444,R446,
			R453, R454, R455, R456
A10266-4741	470. KOHM .25W 5% CF T/R	2	R330,R430
A10266-5111	510. OHM .25W 5 CF T/R	2	R120,R220
A10266-5121	5.1 KOHM .25W 5 CF T/R	4	R326,R340,R426,R440
A10266-5601	56.0 OHM .25W 5% CF T/R	4	R139, R141, R239, R241
A10266-5621	5.6 KOHM .25W 5% CF T/R	2	R171, R271
A10266-5641	560. KOHM .25W 5% CF T/R	1	R16
A10266-6831	68. KOHM .25W 5% CF T/R	4	R128, R129, R228, R229
A10266-7521	7.5 KOHM .25W 5% CF T/R	2	R327, R427
A10266-8211	820. OHM .25W 5% CF T/R	4	R136, R137, R236, R237
A10266-8231	82. KOHM .25W 5% CF T/R	2	R328, R428
A10266-9111	910. OHM .25W 5 CF T/R	1	R11
A10434-104JD	.1UF 250V 5% MTL POLY FILM T	2	C164, C264
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F	or Reference Use Only	11	NTERNATIONAL INC
E DRAWINGS AND SPECIF	ICATIONS ARE THE		ELKHART, INDIANA 46517 PHONE (219) 294-6
E DRAWINGS AND SPECIF PERTY OF CROWN INTERNA L NOT BE REPRODUCED, HE BASIS FOR THE MANU PPARATUS OR DEVICES V	COPIED OR USED DRAWN DWW 09/	25/97	DWG. NO. SHEET 3 125275 CONT. ON SHEET 4

	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
C 2851-1	RECTIFIER, 1N4004 SILICON T/	11	D1, D129, D132, D2, D229, D232,
			D3, D4, D5, D6, D7
C 3181-2	DIODE, 1N4148 T/R	57	D10, D100, D101, D102, D103,
			D104, D105, D106, D107, D108,
			D109, D11, D111, D112, D115,
			D116, D118, D119, D12, D121,
			D122, D123, D124, D125, D127,
			D13, D130, D131, D133, D134,
			D200,D201,D202,D203,D204,
			D205,D206,D207,D208,D209,
			D211,D212,D215,D216,D218,
			D219, D221, D222, D223, D224,
			D225, D227, D230, D231, D233,
			D234, D9
C 3451-9	IC SOCKET, 8PIN DIP 2-640463	1	U3X
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D128, D228
C 3578-9	MPSA93 200V PNP T/R	6	Q104,Q106,Q130,Q204,Q206,
			Q230
C 3625-8	2N4125 30V PNP T/R	22	Q100,Q101,Q114,Q116,Q118,
			0120,0122,0123,0124,0125,
			0129,0200,0201,0214,0216,
			Q218,Q220,Q222,Q223,Q224,
		1	0225,0229
C 3786-8	MPS4250A 40V PNP T/R	8	Q103,Q108,Q111,Q115,Q203,
			Q208, Q211, Q215
C 3810-6	MPSA42 300V NPN T/R	6	Q105, Q109, Q127, Q205, Q209,
			0227
C 4303-1	1000UF 35V AXIAL CAP	2	C1, C2
C 4345-2	LM339N VOLT COMPARATOR	2	U107, U207
C 5061-4	DIODE, 1N3070 10K/T&R	8	D110, D113, D114, D117, D210,
			D213, D214, D217
C 5062-2	100KOHM LINEAR TRIMPOT	4	R186, R286, R300, R400
C 5082-0	DIODE, 1N4733A 5.1V ZENER T		D8
C 5095-2	MC7815CT +15V. REG	1	U1
C 5096-0	MC7915CT -15V. REG	1	U2
C 5215-6	22. MOHM .25W 5 THICK FILM T	4	R121, R164, R221, R264
C 5311-3	22UF 50V 20% NP VERT T/A	2	C107, C207
C 5362-6	2.2UF 50V VERT ELECT T/A	3	C151, C251, C4
C 5891-4	MTS105 THERMAL SENSE T/R	4	Q107,Q110,Q207,Q210
C 6048-0	500 OHM PIHER TRIM	2	R361, R461
	H11C2 OPTO SCR	2	U106, U206
<u>C 6411-0</u> C 6564-6	10P DELROW UNSHRD HDR 87230-	2	TP100, TP200
C 6781-6	6P3T MONO/STEREO SWITCH	2	S2
		<u> </u>	
C 6802-0	. 47UF 50V AXIAL CER T/R 474	+	
C 6804-6	.1UF 50V AXIAL CER T/R 104	24	C134, C135, C136, C137, C138,
			C139, C141, C144, C145, C160,
			C161,C234,C235,C236,C237,
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	1718 WEST MISHAWAKA		NIEMINAIIUNAE INC ELKHART, INDIANA 46517 PHONE (219) 294-6
E DRAWINGS AND SPI PERTY OF CROWN INT			DWG. NO. SHEET 4

	PARTS LIS	· · · · ·	
C.P.N.	DESCRIPTION	ΔΤΥ	REFERENCE DESIGNATION
			C238, C239, C241, C244, C245,
<u> </u>			C267, C268, C3, C5
C 6805-3	.022UF 100V AXIALCER T/R 223	8	C103, C104, C115, C116, C215,
<u> </u>			C216,C265,C266
<u>C 6806-1</u>	.01UF 100V AXIAL CER T/R 103	6	<u>C117, C124, C131, C217, C224,</u>
0.0007.0			C231
C 6807-9	.001UF 100V 10% AXL CER T/R	4	C122, C123, C222, C223
C 6808-7	470. PF 100V 5% NPO AXL CER T		C120, C220
<u>C 6810-3</u>	180PF 100V AXIAL CER T/R 181		C121, C221
C 6811-1	100PF 200V 10% NPO AXL CER T	11	C126, C158, C159, C162, C163,
			C226,C258,C259,C262,C263,
6 6848 8			CB
C 6812-9	47PF 200V 10% NPO AXL CER	16	C106,C110,C111,C112,C113,
			C114,C128,C133,C206,C210,
			C211,C212,C213,C214,C228,
<u> </u>			C233
<u>C 6813-7</u>	27PF 200V 10% NPO AXIAL CER	8	C100,C101,C102,C130,C200,
			C201,C202,C230
<u>C 6814-5</u>	12PF 200V AXIAL CER T/R 120	6	C118, C119, C129, C218, C219,
			C229
C 6950-7	82PF 200V 5% NPO AXIAL CER T	2	C127, C227
C 7444-0	LM393 DUAL COMPARATOR	2	U101,U201
C 7458-0	2N4123 30V NPN T/R	12	Q113,Q117,Q119,Q121,Q126,
			Q128,Q213,Q217,Q219,Q221,
			Q226,Q228
<u>C 7526-4</u>	3POS .1 CENTER MTA HEADER	1	J 1
<u>C 7558-7</u>	MC33079P QUAD LOW NOISE OP A	2	L103, L203
C 7597-5	J202 N-CHANNEL JFET	2	Q131,Q231
C 7636-1	MC33078P DUAL LOW NOISE OP A	З	U109,U209,U4
C 7779-9	22. OHM . 25W 5% FU/FP T/R	8	R309, R312, R314, R318, R409,
			R412, R414, R418
C 7960-5	DPDT 3POS PC SLIDE SWITCH	1	S1
C 7964-7	.22UF 100V AXIAL CER CAP T/R	4	C140,C146,C240,C246
C 8182-5	1N753A 6.2V .5W ZENER DIODE	2	D120, D220
C 8576-8	100UF 35V 10% ALUM ELECT T/A	6	C105,C149,C150,C205,C249,
			C250
C 8812-7	5.5" CABLE TIE	4	HW10, HW7, HW8, HW9
C 8836-6	100 OHM .5W 5% FU/FP T/R	4	R152, R155, R252, R255
C 8897-8	.1UF 100V 20% Z5U RAD CER T/	11	C10, C109, C125, C132, C153,
			C209, C225, C232, C253, C6,
			C9
2 9079-2	200.0HM TOP ADJ CERMET TRIMM	2	R103, R203
2 9464-6	10PF 100V 5% NPO RAD CER T/R	2	C108, C208
2 9494-3	HEATSINK, TØ220 PLUG IN	2	U1X, U2X
2 9857-1	LED, RED T1 .1 LEAD SPACE T/	4	
210208-4	100. UF 25V 20% RAD ELECT T/R	5	E100, E101, E200, E201
210570-7	20 PIN HDR PICOFLEX TIN		<u>C171, C172, C271, C272, C7,</u>
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	INACTIVE For Reference Use Only	IN	ITERNATIONAL INC
DRAWINGS AND SPE	CIFICATIONS ARE THE 1718 WEST MISHAWAKA R	DAD E	LKHART, INDIANA 46517 PHONE (219) 294-
BTY OF CROWNI THITE	RNATIONAL, INC. AND DRAWN DWW 09/		DWG. NO. SHEET 5

		PA	RTS LIS	<u>ST</u>	
C.P.N.	DESCRIPTION			ΩΤΥ	REFERENCE DESIGNATION
C10571-5	18 PIN HDR PIC	OFLEX T	IN	1	J2B
C10587-1	220UF 25V 20%	NP RAD B	ELECT T	4	C143,C148,C243,C248
C10588-9	15UF 35V 20% N	IP RAD EL	_ECT T/	4	C142, C147, C242, C247
D 2961-7	SPS8010 60V NP	N T/R		2	Q102,Q202
D 2962-5	MPSA18 45V NPN	I T/R		2	Q112,Q212
D 6082-8	RESISTOR NETWO	RK-C		2	N100, N200
D 8680-7	CABLE, 6 INCH	12 PIN 1	MTA	2	J701,J800
D 8681-5	CABLE, 10 INCH	12 PIN	MTA	2	J700, J801
100375-1	HDR, 14PIN, VE	RT, DOU	BLE	1	J901X
101374-1	25A1349 DUAL P	NP 80V 9	SIP	2	U102A, U202A
101375-1	2SC3381 DUAL N	IPN 80V 9	SIP	2	U104A, U204A
101651-1	MC33079N QUAD	OPAMP S	GS ONLY	2	U100,U200
102754-1	CD4060 14 STAG	E BIN C	NTR/OSC	1	U5
125263-1	5KOHM 10% LNR	21 DNT F	POT .1	2	R107, R207
125266-1	PWB, CT'10A MA	IN (DUAL	_ POT)	1	1
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			MISHAWAKA		ELKHART, INDIANA 46517 PHONE (219) 294-6
E DHAWINGS AND SPE ERTY OF CROWN INTE	CIFICATIONS ARE THE RNATIONAL, INC. AND D. COPIED. OR USED INNUFACTURE OR SALE S WITHOUT PERMISSION.	DRAWN	DWW Ø9		DWG. NO. SHEET 6
- NOT DE NEFRUDULE	S, COLICS, ON USCN				

		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
1	125266-1	PWB; CT'10A MAIN (DUAL POT)	
C1	C 4303-1	1000UF 35V AXIAL CAP	H 4
C2	C 4303-1	1000UF 35V AXIAL CAP	I 4
С3	C 6804-6	.1UF 50V AXIAL CER T/R 104	J 5
<u>C4</u>	C 5362-6	2.2UF 50V VERT ELECT T/A	J 5
C5	C 6804-6	.1UF 50V AXIAL CER T/R 104	I 2
C6	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	E 1
C7	C10208-4	100.UF 25V 20% RAD ELECT T/R	G 5
C8	C 6811-1	100PF 200V 10% NPO AXL CER T/R	E 6
C9	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Ι6
C10	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	Н 5
C100	C 6813-7	27PF 200V 10% NPO AXIAL CER	JЗ
C101	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C102	C 6813-7	27PF 200V 10% NPO AXIAL CER	J 2
C103	C 6805-3	.022UF 100V AXIALCER T/R 223	J 2
C104	C 6805-3	.022UF 100V AXIALCER T/R 223	КЗ
C105	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 1
C106	C 6812-9	47PF 200V 10% NPO AXL CER	J 2
C107	C 5311-3	22UF 50V 20% NP VERT T/A	K 1
C108	C 9464-6	10PF 100V 5% NPO RAD CER T/R	К 2
C109	C 8897-8	1UF 100V 20% Z5U RAD CER T/R	J 2
C110	C 6812-9	47PF 200V 10% NPO AXL CER	К 2
C111	C 6812-9	47PF 200V 10% NPO AXL CER	LЗ
C112	C 6812-9	47PF 200V 10% NPO AXL CER	L 2
C113	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
C114	C 6812-9	47PF 200V 10% NPO AXL CER	L 3
<u>C115</u>	C 6805-3	.022UF 100V AXIALCER T/R 223	L 3
C116	C 6805-3	.022UF 100V AXIALCER T/R 223	L 2
<u>C117</u>	C 6806-1	.01UF 100V AXIAL CER T/R 103	МЗ
C118	<u>C 6814-5</u>	12PF 200V AXIAL CER T/R 120	M 2
C119	C 6814-5	12PF 200V AXIAL CER T/R 120	МЗ
C120	C 6808-7	470.PF 100V 5% NPO AXL CER T/R	P 5
C121	<u>C 6810-3</u>	180PF 100V AXIAL CER T/R 181	M 4
C122	C 6807-9	.001UF 100V 10% AXL CER T/R	P 5
C123	C 6807-9	.001UF 100V 10% AXL CER T/R	05
C124	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
C125	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 4
C126	C 6811-1 C 6950-7	100PF 200V 10% NPO AXL CER T/R	К 4
C127	C 6812-9	82PF 200V 5% NPO AXIAL CER T/R	K 4
C128	C 6814-5	47PF 200V 10% NPO AXL CER	к з
C129		12PF 200V AXIAL CER T/R 120	КЗ
C130	C 6813-7	27PF 200V 10% NPO AXIAL CER	КЗ
C131	C 6806-1	.01UF 100V AXIAL CER T/R 103	КЗ
C132	C 8897-8	1UF 100V 20% Z5U RAD CER T/R	КЗ
C133	C 6812-9	47PF 200V 10% NPO AXL CER	КЗ
C134	C 6804-6	. 1UF 50V AXIAL CER T/R 104	P 3
C135	C 6804-6	.1UF 50V AXIAL CER T/R 104	03
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	***************************************	CROWN INTERNATION	AL INC
E DRAWINGS	ND SPECIFICATIONS		PHONE (219) 294-8
	THE MANUFACTURE O DEVICES WITHOUT PE	NC. AND DRAWN DWW 09/25/97 DWG. NO.	SHEET 7

		PARTS LIST	T
	C.P.N.	DESCRIPTION	MAP LOC.
C136	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C137	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 2
C138 C139	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104 .1UF 50V AXIAL CER T/R 104	0 4 P 4
C140	C 7964-7	.22UF 100V AXIAL CER CAP T/R	
<u>C140</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	04
C142	C10588-9	15UF 35V 20% NP RAD ELECT T/R	N 4
C143	C10587-1	220UF 25V 20% NP RAD ELECT T/R	N 5
C144	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 3
C145	C 6804-6	.1UF 50V AXIAL CER T/R 104	P 4
C146	C 7964-7	.22UF 100V AXIAL CER CAP T/R	P 4
C147	C10588-9	15UF 35V 20% NP RAD ELECT T/R	P 4
C148	C10587-1	220UF 25V 20% NP RAD ELECT T/R	P 5
C149	C 8576-8	100UF 35V 10% ALUM ELECT T/A	М 5
C150	C 8576-8	100UF 35V 10% ALUM ELECT T/A	M 4
C151	C 5362-6	2.2UF 50V VERT ELECT T/A	L 5
C152	C 6802-0	. 47UF 50V AXIAL CER T/R 474	L 5
<u>C153</u>	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	К 5
C156		DO NOT INSTALL	M 4
C157 C158	C 6011 1	DO NOT INSTALL	M 4
C159	C 6811-1 C 6811-1	100PF 200V 10% NPO AXL CER T/R	N 4
C160	C 6804-6	100PF 200V 10% NPO AXL CER T/R .1UF 50V AXIAL CER T/R 104	N 3
C161	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C162	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C163	C 6811-1	100PF 200V 10% NPO AXL CER T/R	I 4
C164	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	0 6
C171	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C172	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 1
C200	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 3
C201	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C202	C 6813-7	27PF 200V 10% NPO AXIAL CER	G 2
C205	C 8576-8	100UF 35V 10% ALUM ELECT T/A	H 1
C206	C 6812-9	47PF 200V 10% NPO AXL CER	G 2
C207	C 5311-3	22UF 50V 20% NP VERT T/A	F 1
C208 C209	C 9464-6 C 8897-8	10PF 100V 5% NPO RAD CER T/R	F 2
C210	C 6812-9	.1UF 100V 20% Z5U RAD CER T/R 47PF 200V 10% NPO AXL CER	G 2 F 2
C210	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C212	C 6812-9	47PF 200V 10% NPO AXL CER	E 2
C213	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C214	C 6812-9	47PF 200V 10% NPO AXL CER	E 3
C215	C 6805-3	.022UF 100V AXIALCER T/R 223	E 3
C216	C 6805-3	.022UF 100V AXIALCER T/R 223	E 2
C217	C 6806-1	.01UF 100V AXIAL CER T/R 103	DЗ
C218	C 6814-5	12PF 200V AXIAL CER T/R 120	D 2
C219	C 6814-5	12PF 200V AXIAL CER T/R 120	DЭ
	INAC1 For Reference		
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR I R THE MANUFACTURE OR S DEVICES WITHOUT PERM		AL INL PHONE (219) 294-E SHEET B

REE DE	S.C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C220	C 6808-7	470. PF 100V 5% NPO AXL CER T/R	A 5
C220	C 6810-3	180PF 100V AXIAL CER T/R 181	D 4
C222	C 6807-9	.001UF 100V 10% AXL CER T/R	A 5
C223	C 6807-9	.001UF 100V 10% AXL CER T/R	В 5
C224	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 4
C225	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 4
C226	C 6811-1	100PF 200V 10% NPO AXL CER T/R	F 4
C227	C 6950-7	82PF 200V 5% NPO AXIAL CER T/R	F 4
C228	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C229	C 6814-5	12PF 200V AXIAL CER T/R 120	F 3
C230	C 6813-7	27PF 200V 10% NPO AXIAL CER	F 3
C231	C 6806-1	.01UF 100V AXIAL CER T/R 103	F 3
C232	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 3
C233	C 6812-9	47PF 200V 10% NPO AXL CER	F 3
C234	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
C235	C 6804-6	.1UF 50V AXIAL CER T/R 104	А З
C236	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C237	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C238	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C239	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 4
C240	C 7964-7	.22UF 100V AXIAL CER CAP T/R	A 4
C241	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 4
C242	C10588-9	15UF 35V 20% NP RAD ELECT T/R	A 4
C243	C10587-1	220UF 25V 20% NP RAD ELECT T/R	A 4
C244	C 6804-6	.1UF 50V AXIAL CER T/R 104	83
C245	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 4
C246	C 7964-7	.22UF 100V AXIAL CER CAP T/R	В 4
C247	C10588-9	15UF 35V 20% NP RAD ELECT T/R	C 4
C248	C10587-1	220UF 25V 20% NP RAD ELECT T/R	C 5
C249	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 5
C250	C 8576-8	100UF 35V 10% ALUM ELECT T/A	D 4
C251	C 5362-6	2.2UF 50V VERT ELECT T/A	E 5
C252	C 6802-0	.47UF 50V AXIAL CER T/R 474	E 5
C253	C 8897-8	.1UF 100V 20% Z5U RAD CER T/R	F 5
C256	10.1 00.01	DO NOT INSTALL	D 4
C257		DO NOT INSTALL	D 4
C258	<u>C 6811-1</u>	100PF 200V 10% NPO AXL CER T/R	C 4
C259	C 6811-1	100PF 200V 10% NPO AXL CER T/R	С 3
C262	C 6811-1	100PF 200V 10% NPO AXL CER T/R	H 4
C263	C 6811-1	100PF 200V 10% NPO AXL CER T/R	<u>H 4</u>
C264	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	B 6
C265	C 6805-3	.022UF 100V AXIALCER T/R 223	F 3
C266	C 6805-3	.022UF 100V AXIALCER T/R 223	<u> </u>
C267	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C268	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>C 3</u>
C271	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
C272	C10208-4	100.UF 25V 20% RAD ELECT T/R	<u> </u>
	INAC ⁻	「IVE	
	For Reference		
		1710 WEST MISHAWAKA DOAD - SI KHART INDIANA 46517	PHONE (219) 294-8
E DRAWING	S AND SPECIFICATIONS AR ROWN INTERNATIONAL, INC REPRODUCED, COPIED, OR FOR THE MANUFACTURE OR DR DEVICES WITHOUT PERM	DRAWN DWW 09/25/97 DWG. NO.	SHEET 9

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
<u></u> DЭ	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 5
D5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 4
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 5
D8	C 5082-0	DIODE, 1N4733A 5.1V ZENER T/R	I 2
D9	C 3181-2	DIODE, 1N4148 T/R	Н 6
D10	C 3181-2	DIODE, 1N4148 T/R	Н 6
D11	C 3181-2	DIODE, 1N4148 T/R	Н 6
D12	C 3181-2	DIODE, 1N4148 T/R	Н 6
D13	C 3181-2	DIODE, 1N4148 T/R	Ι6
D100	C 3181-2	DIODE, 1N4148 T/R	К 2
D101	C 3181-2	DIODE, 1N4148 T/R	К 2
D102	C 3181-2	DIODE, 1N4148 T/R	L 3
D103	C 3181-2	DIODE, 1N4148 T/R	L 2
D104	C 3181-2	DIODE, 1N4148 T/R	МЗ
D105	C 3181-2	DIODE, 1N4148 T/R	МЗ
D106	C 3181-2	DIODE, 1N4148 T/R	м з
D107	C 3181-2	DIODE, 1N4148 T/R	М З
D108	C 3181-2	DIODE, 1N4148 T/R	M 2
D109	C 3181-2	DIODE, 1N4148 T/R	M 2
D110	C 5061-4	DIODE, 1N3070 10K/T&R	M 2
D111	C 3181-2	DIODE, 1N4148 T/R	05
D112	C 3181-2	DIODE, 1N4148 T/R	P 5
D113	C 5061-4	DIODE, 1N3070 10K/T&R	МЭ
D114	C 5061-4	DIODE, 1N3070 10K/T&R	К 4
D115	C 3181-2	DIODE, 1N4148 T/R	К 4
D116	C 3181-2	DIODE, 1N4148 T/R	к <u>з</u>
D117	C 5061-4	DIODE, 1N3070 10K/T&R	КЗ
D118	C 3181-2	DIODE, 1N4148 T/R	J 3
D119	C 3181-2	DIODE, 1N4148 T/R	J 3
D120	C 8182-5	1N753A 6.2V .5W ZENER DIODE	03
D121	C 3181-2	DIODE, 1N4148 T/R	L 5
D122	<u>C 3181-2</u>	DIODE, 1N4148 T/R	L 5
D123	C 3181-2	DIODE, 1N4148 T/R	L 6
D124	C 3181-2	DIODE, 1N4148 T/R	L 6
D125	C 3181-2	DIODE, 1N4148 T/R	
D127	C 3181-2	DIODE, 1N4148 T/R	
D128	C 3533-4	DIODE, 1N966B 16V ZENER T/R	L 5
D129	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	L 5
D130	C 3181-2 C 3181-2	DIODE, 1N4148 T/R	K 4
D131	C 2851-1	DIODE, 1N4148 T/R RECTIFIER, 1N4004 SILICON T/R	<u>КЗ</u> L5
D132	C 3181-2		
D133	C 3181-2	DIODE, 1N4148 T/R	<u> </u>
D134		DIODE, 1N4148 T/R	J Z
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		CTIVE ence Use Only CROWN INTERNATION	AL INC
	AND SPECIFICATIONS WN INTERNATIONAL, I PRODUCED, COPIED, O THE MANUFACTURE O DEVICES WITHOUT PE	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-6

REF DES		DESCRIPTION	MAP LOC.
D200	L.P.N. C 3181-2	DIODE, 1N4148 T/R	F 2
D200 D201	C 3181-2	DIODE, 1N4148 T/R	F 2
D201 D202	C 3181-2	DIODE, 1N4148 T/R	E 3
D202 D203	C 3181-2	DIODE, 1N4148 T/R	E 2
D203	C 3181-2	DIODE, $1N4148$ T/R	D 3
D204 D205	C 3181-2	DIODE, $1N4148$ T/R	D 3
D205 D206	C 3181-2	DIODE, 1N4148 T/R	D 3
D200	C 3181-2	DIODE, 1N4148 T/R	D 3
D208	C 3181-2	DIODE, 1N4148 T/R	D 2
D200 D209	C 3181-2	DIODE, 1N4148 T/R	D 2
D210	C 5061-4	DIODE, 1N3070 10K/T&R	D 2
D210	C 3181-2	DIODE, 1N4148 T/R	85
D212	C 3181-2	DIODE, 1N4148 T/R	A 5
D212	C 5061-4	DIODE, 1N3070 10K/T&R	D 3
D214	C 5061-4	DIODE, 1N3070 10K/T&R	F 4
D215	C 3181-2	DIODE, 1N4148 T/R	F 4
D216	C 3181-2	DIODE, 1N4148 T/R	F 3
D210 D217	C 5061-4	DIODE, 1N3070 10K/T&R	F 3
D218	C 3181-2	DIODE, 1N4148 T/R	G 3
D219	C 3181-2	DIODE, 1N4148 T/R	G 3
D220	C 8182-5	1N753A 6.2V .5W ZENER DIODE	A 3
D221	C 3181-2	DIODE, 1N4148 T/R	E 5
D222	C 3181-2	DIODE, 1N4148 T/R	E 5
D223	C 3181-2	DIODE, 1N4148 T/R	E 6
D224	C 3181-2	DIODE, 1N4148 T/R	E 6
D225	C 3181-2	DIODE, 1N4148 T/R	E 6
D227	C 3181-2	DIODE, 1N4148 T/R	E 6
D228	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 5
D229	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D230	C 3181-2	DIODE, 1N4148 T/R	F 4
D231	C 3181-2	DIODE, 1N4148 T/R	F 3
D232	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 5
D233	C 3181-2	DIODE, 1N4148 T/R	G 1
D234	C 3181-2	DIODE, 1N4148 T/R	G 2
E100	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	M 5
E101	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	М 5
E200	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
E201	C 9857-1	LED, RED T1 .1 LEAD SPACE T/R	D 5
HW7	C 8812-7	5.5" CABLE TIE	A 6
HW8	C 8812-7	5.5" CABLE TIE	C 6
HW9	C 8812-7	5.5" CABLE TIE	NБ
HW1 Ø	C 8812-7	5.5" CABLE TIE	P 6
J 1	C 7526-4	3POS . 1 CENTER MTA HEADER	I 6
J2A	C10570-7	20 PIN HDR PICOFLEX TIN	IЗ
J2B	C10571-5	18 PIN HDR PICOFLEX TIN	I 2
J700	D 8681-5	CABLE, 10 INCH 12 PIN MTA	P 6
J701	D 8680-7	CABLE, 6 INCH 12 PIN MTA	N 6
		CTIVE nce Use Only CROWN INTERNATION	
EDRAWINGS	ND SPECIFICATIONS	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
ENTY OF CRO	MN INTERNATIONAL, 1 PRODUCED, COPIED, 0 R THE MANUFACTURE 0 DEVICES WITHOUT PE	ARE INE NC. AND DRAWN DWW 09/25/97 DWG. NO. I 25275 RMISSION. PROJ. MD360D0 125275	SHEET 11

REE DES	C. P. N.	PARTS LIST	MAP LOC.
1800	D 8680-7	CABLE, 6 INCH 12 PIN MTA	B 6
J801	D 8681-5	CABLE, 10 INCH 12 PIN MTA	A 6
J901X	100375-1	HDR, 14PIN, VERT, DOUBLE ROW	H 4
N100	D 6082-8	RESISTOR NETWORK-C	L 3
N200	D 6082-8	RESISTOR NETWORK-C	E 3
0100	C 3625-8	2N4125 30V PNP T/R	К 2
Q1Ø1	C 3625-8	2N4125 30V PNP T/R	K 2
Q1Ø2	D 2961-7	SPS8010 60V NPN T/R	M 4
Q103	C 3786-8	MPS4250A 40V PNP T/R	M 2
Q104	C 3578-9	MPSA93 200V PNP T/R	мз
Q105	C 3810-6	MPSA42 300V NPN T/R	M 2
Q106	C 3578-9	MPSA93 200V PNP T/R	M 2
0107	C 5891-4	MTS105 THERMAL SENSE T/R	05
Q108	C 3786-8	MPS4250A 40V PNP T/R	05
Q109	C 3810-6	MPSA42 300V NPN T/R	M 4
Q110	C 5891-4	MTS105 THERMAL SENSE T/R	05
Q111	C 3786-8	MPS4250A 40V PNP T/R	05
Q112	D 2962-5	MPSA18 45V NPN T/R	K 4
Q113	C 7458-0	2N4123 30V NPN T/R	J 4
Q114	C 3625-8	2N4125 30V PNP T/R	JЗ
Q115	C 3786-8	MPS4250A 40V PNP T/R	КЗ
Q116	C 3625-8	2N4125 30V PNP T/R	0 1
Q117	C 7458-0	2N4123 30V NPN T/R	0 1
Q118	C 3625-8	2N4125 30V PNP T/R	М 5
Q119	C 7458-0	2N4123 30V NPN T/R	м 5
Q120	C 3625-8	2N4125 30V PNP T/R	M 4
Q121	C 7458-0	2N4123 30V NPN T/R	M 4
Q122	C 3625-8	2N4125 30V PNP T/R	M 4
0123	C 3625-8	2N4125 30V PNP T/R	M 5
0124	C 3625-8	2N4125 30V PNP T/R	<u>M 4</u>
0125	C 3625-8 C 7458-0	2N4125 30V PNP T/R	M 4
Q126 Q127		2N4123 30V NPN T/R	L 4
0128	C 3810-6 C 7458-0	MPSA42 300V NPN T/R 2N4123 30V NPN T/R	K 4 M 4
0129	C 3625-8	2N4125 30V NPN T/R	M 4
0130	C 3578-9	MPSA93 200V PNP T/R	
0131	C 7597-5	J202 N-CHANNEL JFET	
0200	C 3625-8	2N4125 30V PNP T/R	F 2
0201	C 3625-8	2N4125 30V PNP T/R	F 2
0202	D 2961-7	SPS8010 60V NPN T/R	D 4
0203	C 3786-8	MPS4250A 40V PNP T/R	D 2
Q204	C 3578-9	MPSA93 200V PNP T/R	D 3
0205	C 3810-6	MPSA42 300V NPN T/R	C 2
Q206	C 3578-9	MPSA93 200V PNP T/R	C 2
Q207	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
Q2Ø8	C 3786-8	MPS4250A 40V PNP T/R	A 5
0209	C 3810-6	MPSA42 300V NPN T/R	D 4
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	***************************************	CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS WN INTERNATIONAL, I PRODUCED, COPIED, C R THE MANUFACTURE C DEVICES WITHOUT PE		PHONE (219) 294-6

		PARTS LIST	_
REF DES		DESCRIPTION	MAP LOC.
0210	C 5891-4	MTS105 THERMAL SENSE T/R	A 5
0211	C 3786-8	MPS4250A 40V PNP T/R	85
0212	D 2962-5	MPSA18 45V NPN T/R	F 4
0213	C 7458-0	2N4123 30V NPN T/R	G 4
Q214	C 3625-8	2N4125 30V PNP T/R	G 3
0215	C 3786-8	MPS4250A 40V PNP T/R	F 3
Q216	C 3625-8	2N4125 30V PNP T/R	B 1
0217	C 7458-0	2N4123 30V NPN T/R	B 1
Q218	C 3625-8	2N4125 30V PNP T/R	C 5
Q219	C 7458-0	2N4123 30V NPN T/R	С 5
0220	C 3625-8	2N4125 30V PNP T/R	C 4
0221	C 7458-0	2N4123 30V NPN T/R	C 4
0222	C 3625-8	2N4125 30V PNP T/R	C 4
0223	C 3625-8	2N4125 30V PNP T/R	D 5
0224	C 3625-8	2N4125 30V PNP T/R	D 4
0225	C 3625-8	2N4125 30V PNP T/R	D 4
0226	C 7458-0	2N4123 30V NPN T/R	E 4
0227	C 3810-6	MPSA42 300V NPN T/R	F 4
0228	C 7458-0	2N4123 30V NPN T/R	D 4
0229	C 3625-8	2N4125 30V PNP T/R	D 4
0230	C 3578-9	MPSA93 200V PNP T/R	E 4
0231	C 7597-5	J202 N-CHANNEL JFET	<u> </u>
R1	A10265-46421	46.4 KOHM .25W 1% MF T/R	E 2
R2	A10265-53621	53.6 KOHM .25W 1% MF T/R	F 2
R4	A10265-10031	100. KOHM . 25W 1 MF T/R	<u> </u>
R5	A10265-24921	24.9 KOHM .25W 1% MF T/R	<u>G 5</u>
R6 R7	A10265-24921	24.9 KOHM .25W 1% MF T/R	F 5
R8	A10265-10031	100. KOHM . 25W 1 MF T/R	<u>F 5</u>
R9	A10266-1051 A10266-1051	1.0 MOHM . 25W 5 CF T/R	<u>H 2</u>
R10	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u>H 2</u>
R11	A10266-9111	1.0 MOHM .25W 5 CF T/R 910. OHM .25W 5 CF T/R	<u>H 2</u>
R12	A10200 3111	WIRE, #24 SOLID BUS	I 2
R13	A10124-24	WIRE, #24 SOLID BUS	J 6
R14	A10266-3921	3.9 KOHM .25W 5% CF T/R	H 6 G 5
R15	A10266-3921	3.9 KOHM . 25W 5% CF T/R	G G G
R16	A10266-5641	560. KOHM . 25W 5% CF T/R	G 6
R17	A10266-1051	1.0 MOHM . 25W 5 CF T/R	E 6
R18	A10266-2421	2.4 KOHM . 25W 5 CF T/R	E 6
R19	A10266-2421	2.4 KOHM . 25W 5 CF T/R	E 6
R20	A10266-1041	100. KOHM .25W 5% CF25 T/R	E 6
R21	A10266-1041	100. KOHM . 25W 5% CF25 T/R	E 6
R22	A10266-1051	1.0 MOHM . 25W 5 CF T/R	<u> </u>
R23	A10266-2051	2.0 MOHM . 25W 5 CF T/R	н 5
R24	A10266-1031	10. KOHM . 25W 5% CF T/R	IG
R25	A10265-10011	1.0 KOHM . 25W 1 MF T/R	IG
R100	A10265-10021	10. KOHM . 25W 1 MF T/R	
	A10203 10021		J 3
	INAC For Reference		
E DRAWINGS A	ND SPECIFICATIONS ARE NN INTERNATIONAL, INC. PRODUCED, COPIED, OR L 3 THE MANUFACTURE OR S DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN DWW 09/25/97 DWG. NO.	PHONE (219) 294-6
		AND DRAWN DWW 09/25/97 DWG. NO.	SHEET 13

REF DE	SC.P.N.	DESCRIPTION	MAP LOC.
R101	A10265-10021		J 3
R102	A10265-10021	10. KOHM.25W1 MF T/R	J 3
R103	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	I 2
R104	A10265-10021	10. KOHM.25W1 MF T/R	J 2
R105	A10265-49911		I 3
R106	A10265-49911	4.99KOHM .25W 1 MF T/R	I 3
R107	125263-1	5K, , 10%, LINEAR W/21 DETENT	<u>J</u> _2
R108	A10265-76811	7.68 KOHM .25W 1% MF T/R	I 1
R109	A10265-24921		I 1
R110	A10265-69811		I 1
R111	A10265-24921		К 2
R112	A10266-2201	22.0 OHM .25W 5 CF T/R	J 2
R113	A10265-49911		<u>к 2</u>
R114	A10265-10031	100. KOHM .25W 1 MF T/R	K 2
R115	A10265-15031	150 KOHM .25 1% MF T/R	J 4
R116	A10265-10721	10.7KOHM .25W 1% MF T/R	<u> </u>
R117		200.KOHM .25W 1 MF T/R	IЗ
R118	A10265-10521	10.5KOHM .25W 1% MF T/R	IЗ
R119	A10265-10031		К 2
R120	A10266-5111	510. OHM .25W 5 CF T/R	К 2
R121	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	К 2
R122	A10266-1321	1.3 KOHM .25W 5 CF T/R	К 2
R123	A10265-49911	4.99KOHM .25W 1 MF T/R	К 2
R124	A10266-1231	12.KOHM .25W 5% CF T/R	L 3
R125	A10266-1231	12.KOHM .25W 5% CF T/R	L 2
R126	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 3
R127	A10266-2721	2.7 KOHM .25W 5 CF T/R	L 2
R128	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R129	A10266-6831	68. KOHM .25W 5% CF T/R	L 3
R130	A10265-10031	100. KOHM .25W 1 MF T/R	L 3
R131	A10265-10031	100. KOHM .25W 1 MF T/R	L 2
R132		47.0 OHM .25W 5 CF T/R	L 4
R133	A10266-4701	47.0 OHM .25W 5 CF T/R	L 2
R134	A10266-4711	470. OHM .25W 5% CF T/R	М З
R135	A10266-2201	22.0 OHM .25W 5 CF T/R	М З
R136	A10266-8211	820. OHM .25W 5% CF T/R	М З
R137	A10266-8211	820. OHM .25W 5% CF T/R	M 2
R138	A10266-2201	22.0 OHM .25W 5 CF T/R	M 2
R139	A10266-5601	56.0 OHM .25W 5% CF T/R	M 2
R140	A10266-4721	4.7 KOHM .25W 5% CF T/R	P 5
R141	A10266-5601	56.0 OHM .25W 5% CF T/R	M 4
7142	A10265-66501	665. OHM . 25W 1 MF T/R	05
7143	A10265-27401	274. OHM . 25W 1% MF T/R	P 5
7144	A10265-27401	274. OHM . 25W 1% MF T/R	05
7145	A10265-66501	665. OHM . 25W 1 MF T/R	05
7146	A10265-66501	665. OHM . 25W 1 MF T/R	05
7147	A10265-66501	665. OHM .25W 1 MF T/R	05
	INACT		
	For Reference	Use Only CROWN INTERNATION	AL INC
DRAWINGS	AND SPECIFICATIONS ARE OWN INTERNATIONAL, INC. EPRODUCED, COPIED, OR U OR THE MANUFACTURE OR S R DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 F	PHONE (219) 294-

	SC.P.N.	PARTS LIST DESCRIPTION	
R148		100. KOHM . 25W 5% CF25 T/R	MAP LOC.
R149		3.57KOHM .25W 1 MF T/R	P 5
3150		3.57KOHM .25W 1 MF T/R	0 5
1151	A10266-1041	100. KOHM . 25W 5% CF25 T/R	05
7152	C 8836-6	100	
7153	A10266-1031	100 OHM .5W 5% FU/FP T/R 10. KOHM .25W 5% CF T/R	<u>K 4</u>
7154	A10266-2721	2.7 KOHM . 25W 5 CF T/R	К 4
3155	C 8836-6	100 OHM .5W 5% FU/FP T/R	К З
R156	A10266-1031	10. KOHM .25W 5% CF T/R	К Э
7157	A10266-2721	2.7 KOHM . 25W 5 CF T/R	КЗ
7158	A10266-3021	3.0 KOHM .25W 5 CF T/R	
7159	A10265-10011		КЗ
R160	A10265-10021	10. KOHM .25W 1 MF T/R	J 3
7161	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
7162	A10266-4721	4.7 KOHM .25W 5% CF T/R	J 3
R163	A10265-10021	10. KOHM.25W1 MF T/R	J 3
R164	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	КЗ
7165		274.KOHM .25W 1% MF T/R	J 4
R166		9.53KOHM .25W 1% MF T/R	I 4
R167	A10266-1321	1.3 KOHM .25W 5 CF T/R	КЗ
R168	A10124-24	WIRE, #24 SOLID BUS	КЗ
169		274.KOHM .25W 1% MF T/R	J 2
170		9.53KOHM .25W 1% MF T/R	J 2
7171	A10266-5621	5.6 KOHM . 25W 5% CF T/R	Р 3
172	A10266-1541	150. KOHM . 25W 5% CF T/R	03
7173 7174		17.8KOHM .25W 1% MF T/R	03
7174 7175	A10265-24921 A10265-49911		03
175		4.99KOHM .25W 1 MF T/R 6.81KOHM .25W 1% MF T/R	03
177		33.2KOHM .25W 1% MF T/R	
178	A10265-10021	10. KOHM . 25W 1 MF T/R	04
7179		2.0 KOHM . 25W 1% MF T/R	
180	A10265-20011	2.0 KOHM . 25W 1% MF T/R	03
181	A10265-10001	100. OHM .25W 1 MF T/R	
182	A10265-51121	51.1 KOHM .25W 1% MF T/R	0 2
3183	A10265-68111	6.81KOHM .25W 1% MF T/R	0 2
3184	A10265-10001	100. OHM .25W 1 MF T/R	0 2
R185	A10266-2741	270. KOHM . 25W 5% CF25 T/R	0 2
R186	C 5062-2	100KOHM LINEAR TRIMPOT	02
187	A10265-14721	14.7 KOHM .25W 1% MF T/R	04
188	A10265-30921	30.9 KOHM .25W 1% MF T/R	04
189	A10265-19121	19.1KOHM .25W 1% MF T/R	04
190	A10265-33221	33.2KOHM .25W 1% MF T/R	Р 3
191	A10265-10021	10. KOHM.25W1 MF T/R	РЭ
192	A10265-20011	2.0 KOHM .25W 1% MF T/R	Р 3
193	A10265-20011	2.0 KOHM .25W 1% MF T/R	P 4
8194	A10265-68111	6.81KOHM .25W 1% MF T/R	Р 3
		CROWN INTERNATION	AL INC
	AND SPECIFICATIONS ARE	1718 WEST MISHAWAKA BOAD ELYHART INDIANA 45517	PHONE (219) 294-

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R195	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R196	A10265-51121	51.1 KOHM .25W 1% MF T/R	P 2
R197	A10265-68111	6.81KOHM .25W 1% MF T/R	P 2
R198	A10265-10001	100. OHM .25W 1 MF T/R	P 2
R199	A10266-2741	270. KOHM .25W 5% CF25 T/R	P 2
R200	A10265-10021	10. KOHM.25W1 MF T/R	G G G
R201	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R202	A10265-10021	10. KOHM .25W 1 MF T/R	G 3
R203	C 9079-2	200.0HM TOP ADJ CERMET TRIMMER	Н 1
R204	A10265-10021	10. KOHM .25W 1 MF T/R	G 2
R205	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R206	A10265-49911	4.99KOHM .25W 1 MF T/R	НЗ
R207	125263-1	5K, , 10%, LINEAR W/21 DETENT	F 2
R208	A10265-76811		Н 1
R209	A10265-24921	24.9 KOHM .25W 1% MF T/R	Н 1
R210	A10265-69811		Н 1
R211	A10265-24921		F 2
R212	A10266-2201	22.0 OHM .25W 5 CF T/R	G 2
R213	A10265-49911	4.99KOHM .25W 1 MF T/R	F 2
R214	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R215	A10265-15031	150 KOHM .25 1% MF T/R	G 4
R216	A10265-10721	10.7KOHM .25W 1% MF T/R	H 4
R217	A10265-20031		НЗ
R218	A10265-10521	10.5KOHM .25W 1% MF T/R	НЗ
R219	A10265-10031	100. KOHM .25W 1 MF T/R	F 2
R220	A10266-5111	510. OHM .25W 5 CF T/R	F 2
R221	C 5215-6	22. MOHM .25W 5 THICK FILM T/R	F 2
R222	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 2
R223	A10265-49911		F 2
R224	A10266-1231	12.KOHM .25W 5% CF T/R	EЗ
R225	A10266-1231	12.KOHM .25W 5% CF T/R	E 2
R226	A10266-2721	2.7 KOHM .25W 5 CF T/R	Е З
R227	A10266-2721	2.7 KOHM .25W 5 CF T/R	E 2
R228	A10266-6831	68. KOHM .25W 5% CF T/R	E 3
R229	A10266-6831	68. KOHM .25W 5% CF T/R	Е З
R230	A10265-10031	100. KOHM .25W 1 MF T/R	Е З
7231	A10265-10031	100. KOHM .25W 1 MF T/R	E 2
7232	A10266-4701	47.0 OHM .25W 5 CF T/R	E 4
7233	A10266-4701	47.0 OHM .25W 5 CF T/R	E 2
7234	A10266-4711	470. OHM .25W 5% CF T/R	DЗ
7235	A10266-2201	22.0 OHM .25W 5 CF T/R	DЗ
7236	A10266-8211	820. OHM .25W 5% CF T/R	D 3
7237	A10266-8211	820. OHM .25W 5% CF T/R	D 2
7238	A10266-2201	22.0 OHM .25W 5 CF T/R	D 2
7239	A10266-5601	56.0 OHM .25W 5% CF T/R	D 2
7240	A10266-4721	4.7 KOHM .25W 5% CF T/R	A 5
7241	A10266-5601	56.0 OHM .25W 5% CF T/R	D 4
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	For Reference	CROWN INTERNATION	AL INC
	AND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R242		665. OHM . 25W 1 MF T/R	B 5
R243	A10205-00501		A 5
R244	A10265-27401	274. OHM . 25W 1% MF T/R	B 5
R245	A10265-66501	665. OHM . 25W 1 MF T/R	B 5
R246	A10265-66501	665. OHM . 25W 1 MF T/R	B 5
R247	A10265-66501		
R248	A10265-1041		85
R249			A 5
R250		3.57KOHM .25W 1 MF T/R 3.57KOHM .25W 1 MF T/R	A 5
R251	A10265-1041	100. KOHM . 25W 5% CF25 T/R	<u> </u>
R252	C 8836-6	100 OHM .5W 5% FU/FP T/R	85
R253	A10266-1031	10. KOHM .25W 5% CF T/R	F 4 E 4
R254	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 4
R255	C 8836-6	100 OHM .5W 5% FU/FP T/R	F 3
R256	A10266-1031	10. KOHM . 25W 5% CF T/R	E 3
R257	A10266-2721	2.7 KOHM . 25W 5 CF T/R	E 3
R258	A10266-3021	3.0 KOHM .25W 5 CF T/R	<u> </u>
R259	A10265-10011		F 3
R260	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R261	A10265-4721	4.7 KOHM .25W 5% CF T/R	G 3
R262	A10266-4721	4.7 KOHM .25W 5% CF T/R	G 3
R263	A10265-10021	10. KOHM . 25W 1 MF T/R	G 3
R264	C 5215-6	22. MOHM . 25W 5 THICK FILM T/R	F 3
R265	A10265-27431	274.KOHM . 25W 1% MF T/R	G 4
R266		9.53KOHM . 25W 1% MF T/R	H 4
R267	A10266-1321	1.3 KOHM .25W 5 CF T/R	F 3
R268	A10124-24	WIRE, #24 SOLID BUS	F 3
R269		274.KOHM .25W 1% MF T/R	G 2
R270		9.53KOHM .25W 1% MF T/R	G 2
R271	A10266-5621	5.6 KOHM .25W 5% CF T/R	B 3
R272	A10266-1541	150. KOHM .25W 5% CF T/R	A 3
R273	A10265-17821	17.8KOHM .25W 1% MF T/R	A 3
R274	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 3
R275	A10265-49911	4.99KOHM .25W 1 MF T/R	A 3
R276	A10265-68111	6.81KOHM .25W 1% MF T/R	A 3
R277	A10265-33221	33.2KOHM .25W 1% MF T/R	A 4
R278	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
R279	A10265-20011	2.0 KOHM .25W 1% MF T/R	E A
R280	A10265-20011	2.0 KOHM .25W 1% MF T/R	A 3
R281	A10265-10001	100. OHM .25W 1 MF T/R	A 2
R282	A10265-51121	51.1 KOHM .25W 1% MF T/R	A 2
R283	A10265-68111	6.81KOHM .25W 1% MF T/R	A 2
R284	A10265-10001	100. OHM .25W 1 MF T/R	A 2
R285	A10266-2741	270. KOHM .25W 5% CF25 T/R	A 2
R286	C 5062-2	100KOHM LINEAR TRIMPOT	A 2
R287	A10265-14721	14.7 KOHM .25W 1% MF T/R	A 4
R288	A10265-30921	30.9 KOHM .25W 1% MF T/R	A 4
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		PARTS LIST	
	C. P. N.	DESCRIPTION	MAP LOC.
R289		19.1KOHM .25W 1% MF T/R	A 4
R290	A10265-33221	33.2KOHM .25W 1% MF T/R	В 3
R291	A10265-10021		В 3
R292		2.0 KOHM .25W 1% MF T/R	B 4
R293		2.0 KOHM .25W 1% MF T/R	B 4
R294		6.81KOHM .25W 1% MF T/R	B 3
R295	A10265-10001		B 2
R296		51.1 KOHM .25W 1% MF T/R	B 2
R297		6.81KOHM .25W 1% MF T/R	B 2
R298		100. OHM .25W 1 MF T/R	B 2
R299	A10266-2741	270. KOHM .25W 5% CF25 T/R	<u>B 2</u>
R300		100KOHM LINEAR TRIMPOT	P 2
R301		14.7 KOHM .25W 1% MF T/R	P 4
R302		30.9 KOHM .25W 1% MF T/R	P 4
R303		19.1KOHM .25W 1% MF T/R	P 4
R304		39.2KOHM .25W 1% MF T/R	P 4
R305		357.KOHM .25W 1 MF T/R	P 4
R306	A10266-3021		
R307	A10266-1521	1.5 KOHM .25W 5% CF T/R	
R308	A10266-1041	100. KOHM .25W 5% CF25 T/R	
R309	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 5
R310	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R311	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R312	C 7779-9	22. OHM . 25W 5% FU/FP T/R	N 5
R313	A10266-4711	470. OHM .25W 5% CF T/R	N 5
R314	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R315	A10266-4711	470. OHM .25W 5% CF T/R 470. OHM .25W 5% CF T/R	N 4
R316	A10266-4711 A10266-4711	470. OHM .25W 5% CF T/R 470. OHM .25W 5% CF T/R	N 4
R317 R318	C 7779-9	22. OHM .25W 5% FU/FP T/R	N 4
R319	A10266-2731		N 5
R320		3.3 KOHM .25W 5% CF T/R	
R320	A10200-3321	3.3 KOHM .25W 5% CF T/R	L 5
R322	A10266-2051	2.0 MOHM . 25W 5 CF T/R	К 5
R323	A10266-1521	1.5 KOHM .25W 5% CF T/R	
R324	A10266-4711	470. OHM .25W 5% CF T/R	К 5
R325	A10266-1041	100. KOHM . 25W 5% CF25 T/R	К 5
R326	A10266-5121	5.1 KOHM . 25W 5 CF T/R	K 5
R320	A10266-7521	7.5 KOHM .25W 5% CF T/R	к 5 К 5
R328	A10266-8231	82. KOHM .25W 5% CF T/R	
R329	A10265-51121	51.1 KOHM .25W 1% MF T/R	
R330	A10266-4741	470. KOHM . 25W 5% CF T/R	L 5
R331	A10266-2751	2.7 MOHM . 25W 5% CF T/R	
R338	A10266-1041	100. KOHM . 25W 5% CF25 T/R	J 6
R339	A10266-4731	47. KOHM . 25W 5% CF25 T/R	JG
R340	A10266-5121	5.1 KOHM .25W 5 CF T/R	
R341	A10266-2031	20. KOHM . 25W 5 CF T/R	
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E DRAWINGS	AND SPECIFICATIONS AR MN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE THE NOT THE THE THE THE THE THE THE THE THE TH	PHONE (219) 294-8
ERTY OF CRO	MN INTERNATIONAL, INC	DRAWN DWW Ø9/25/97 DWG. NO. USED SALE PROJ. MD360D0 125275	SHEET 18

REF DE	SC.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R342	A10266-3921	3.9 KOHM . 25W 5% CF T/R	L 5
R343	A10266-1031	10. KOHM . 25W 5% CF T/R	L 5
R344	A10266-4731	47. KOHM . 25W 5% CF25 T/R	
R345	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
R346	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
R347	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R348	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R349	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R350	A10266-4701	47.0 OHM .25W 5 CF T/R	L 5
R351	A10266-2031	20. KOHM .25W 5 CF T/R	К 4
R352	A10266-1031	10. KOHM .25W 5% CF T/R	L 4
R353	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
R354	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7355	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7356	A10266-4731	47. KOHM .25W 5% CF25 T/R	L 4
7357	A10266-1031	10. KOHM .25W 5% CF T/R	L 5
7358	A10266-2031	20. KOHM .25W 5 CF T/R	L 4
7359	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
7360	A10266-1211	120. OHM .25W 5 CF T/R	N 4
7361	C 6048-0	500 OHM PIHER TRIM	N 4
7362	A10265-10R01	10.0 OHM .25W 1 MF T/R	N 4
R363	A10265-30111		N 3
7364	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
R365	A10265-30111	3.01KOHM .25W 1 MF T/R	NЗ
7366	A10265-18221	18.2KOHM .25W 1% MF T/R	N 3
7367	A10265-10011	1.0 KOHM .25W 1 MF T/R	N 3
R368	A10266-4711	470. OHM .25W 5% CF T/R	J 4
7369	A10266-4711	470. OHM .25W 5% CF T/R	J 4
R400	C 5062-2	100KOHM LINEAR TRIMPOT	B 2
7401		14.7 KOHM . 25W 1% MF T/R	B 4
7402	A10265-30921		<u>B 4</u>
R403	Î	19.1KOHM .25W 1% MF T/R	B 4
7404 7405	A10265-39221 A10265-35731	<u>39.2КОНМ .25W 1% MF T/R</u> 357.КОНМ .25W 1 MF T/R	<u> </u>
7405	A10266-3021	357.KOHM .25W 1 MF T/R 3.0 KOHM .25W 5 CF T/R	<u> </u>
R407	A10266-1521	1.5 KOHM .25W 5% CF T/R	B 1
7408	A10266-1041	100. KOHM .25W 5% CF25 T/R	B 1
7409	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
7410	A10266-4711	470. OHM . 25W 5% CF T/R	C 5
R411	A10266-4711	470. OHM . 25W 5% CF T/R	<u> </u>
7412	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 5
7413	A10266-4711	470. OHM . 25W 5% CF T/R	C 5
7414	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
3415	A10266-4711	470. OHM . 25W 5% CF T/R	
7416	A10266-4711	470. OHM . 25W 5% CF T/R	
7417	A10266-4711	470. OHM . 25W 5% CF T/R	
7418	C 7779-9	22. OHM .25W 5% FU/FP T/R	C 4
			<u> </u>
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	INACTIV For Reference Us		IAL INC
DRAWINGS	AND SPECIFICATIONS AR OWN INTERNATIONAL, INC EPRODUCED, COPIED, OR	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
HTYOFCH	UWN INTERNATIONAL, INC	DRAWN DWW 09/25/97 DWG. NO.	SHEET 19

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R419	A10266-2731	27. KOHM.25W 5 CF T/R	C 5
R420	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R421	A10266-3321	3.3 KOHM .25W 5% CF T/R	E 5
R422	A10266-2051	2.0 MOHM . 25W 5 CF T/R	F 5
R423	A10266-1521	1.5 KOHM .25W 5% CF T/R	E 5
R424	A10266-4711	470. OHM .25W 5% CF T/R	F 5
R425	A10266-1041	100. KOHM 25W 5% CF25 T/R	F 5
R426	A10266-5121	5.1 KOHM .25W 5 CF T/R	F 5
R427	A10266-7521	7.5 KOHM .25W 5% CF T/R	F 5
R428	A10266-8231	82. KOHM .25W 5% CF T/R	E 5
R429	A10265-51121	51.1 KOHM .25W 1% MF T/R	E 6
R430	A10266-4741	470. KOHM .25W 5% CF T/R	E 5
R431	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 5
R438	A10266-1041	100. KOHM .25W 5% CF25 T/R	G 6
R439	A10266-4731	47. KOHM .25W 5% CF25 T/R	G 6
R440	A10266-5121	5.1 KOHM .25W 5 CF T/R	E 6
R441	A10266-2031	20. KOHM .25W 5 CF T/R	E 6
R442	A10266-3921	3.9 KOHM .25W 5% CF T/R	E 5
R443	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R444	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R445	A10266-1031	10. KOHM .25W 5% CF T/R	E 5
R446	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R447	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R448	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R449	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R450	A10266-4701	47.0 OHM .25W 5 CF T/R	E 5
R451	A10266-2031	20. KOHM .25W 5 CF T/R	F 4
R452	A10266-1031	10. KOHM .25W 5% CF T/R	E 4
R453	A10266-4731	47. KOHM .25W 5% CF25 T/R	E 4
R454	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R455	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R456	A10266-4731	47. KOHM . 25W 5% CF25 T/R	E 4
R457 R458	A10266-1031 A10266-2031	10. KOHM . 25W 5% CF T/R	E 5
R459	A10265-10R01	20. KOHM .25W 5 CF T/R 10.0 OHM .25W 1 MF T/R	<u>E 4</u>
R460	A10265-10R01		СЗ
R461	C 6048-0	120. OHM .25W 5 CF T/R 500 OHM PIHER TRIM	СЗ
R462	A10265-10R01		
R463	A10265-30111		
R464	A10265-18221	3.01KOHM .25W 1 MF T/R 18.2KOHM .25W 1% MF T/R	
7465	A10265-30111	3.01KOHM .25W 1 MF T/R	
7466	A10265-18221	18.2KOHM .25W 1% MF T/R	
R467	A10265-10011	1.0 KOHM .25W 1 MF T/R	
7468	A10265-4711	470. OHM .25W 5% CF T/R	
7469	A10266-4711	470. OHM .25W 5% CF T/R	<u> </u>
51	C 7960-5	DPDT 3POS PC SLIDE SWITCH	
52	C 6781-6	6P3T MONO/STEREO SWITCH	
			
	For Reference ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI DEVICES WITHOUT PERMI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	AL INC

		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
TP100	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	Кб
TP200	C 6564-6	10P DBLROW UNSHRD HDR 87230-5	F 6
U1	C 5095-2	MC7815CT +15V. REG	Н 5
U1X	C 9494-3	HEATSINK, TØ220 PLUG IN	Н 5
U2	C 5096-0	MC7915CT -15V. REG	I 5
U2X	C 9494-3	HEATSINK, TØ220 PLUG IN	I 5
U3		INSTALLED ON NEXT ASSEMBLY	Н 2
ИЗХ	C 3451-9	IC SOCKET, 8PIN DIP 2-640463-3	Н 2
U4	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	F 6
U5	102754-1	CD4060 14 STAGE BIN CNTR/OSC	Нб
U100	101651-1	MC33079N QUAD OP AMP SGS ONLY	J 3
U101	C 7444-0	LM393 DUAL COMPARATOR	03
U102A	101374-1	2SA1349 DUAL PNP 80V SIP	0 2
U103	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	0 4
U104A	101375-1	2SC33B1 DUAL NPN 80V SIP	P 2
U106	C 6411-0	H11C2 OPTO SCR	
U107	C 4345-2	LM339N VOLT COMPARATOR	K 5
U109	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	N 3
U200	101651-1	MC33079N QUAD OP AMP SGS ONLY	G 3
	C 7444-0	LM393 DUAL COMPARATOR	G 3
U201			
U202A	101374-1	25A1349 DUAL PNP 80V SIP	A 2
U203	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	A 4
U204A	101375-1	25C3381 DUAL NPN 80V SIP	<u> </u>
U206	<u>C 6411-0</u>	H11C2 OPTO SCR	D 5
U207	C 4345-2	LM339N VOLT COMPARATOR	F 5
U209	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	В 3
U102		SEE NOTE 10	0 2
U104		SEE NOTE 10	P 2
U202		SEE NOTE 10	A 2
U204		SEE NOTE 10	B 2
Z1		DO NOT INSTALL	C 1
Z2		DO NOT INSTALL	D 1
Z3		DO NOT INSTALL	D 1
Z4		DO NOT INSTALL	D 2
Z5		DO NOT INSTALL	D 2
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			ATIONAL INC
E DRAWINGS	AND SPECIFICATIONS WN INTERNATIONAL, PRODUCED, COPIED, R THE MANUFACTURE DEVICES WITHOUT P	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDI NC. AND DRAWN DWW 09/25/97 DWG. NO.	ANA 46517 PHONE (219) 294- SHEET 21 5275 SHEET 21 CONT. ON SHEET 22

COMPONENT MAP (COMPONENT SIDE VIEW)	8	7		6	5	DWG. ND. 125275
SEE NOTE 7	5 4 3 2 	$ \begin{array}{c} $	J800 Z I - R419 - R413 - - R413 - - R419 - R418 - C227 - R461 - R465 - C256 - C257 - R465 - R465 - C259 - R465 - C259 - R465 - C259 - R465 - C218 -	$\begin{array}{c} D225 \\ D224 \\ - R449 \\ - R39 \\ - R429 \\ - R423 \\ - R433 \\ - R441 \\ - R452 \\ - R455 \\ - R444 \\ - R455 \\ - R456 \\ - R458 \\ - R258 \\ - R458 \\ - R258 \\ -$	$ \begin{array}{c ccccc} HO15153H\\ DN1J311M301\\ H3131M301\\ H3231M301\\ H3231M3$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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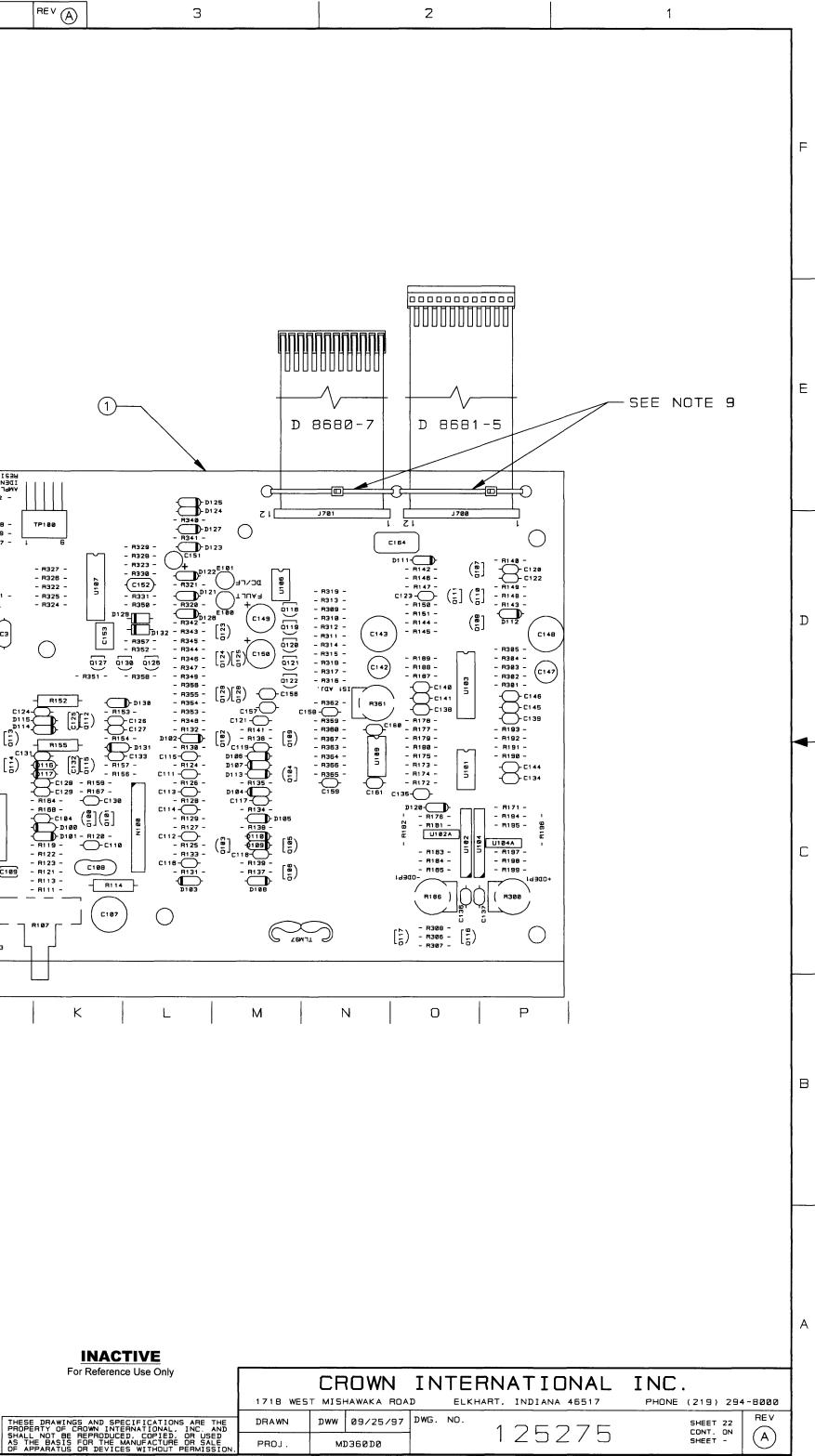
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CT810 Control Module 100V Information On Following Pages Documentation, Component Map, Schematic

CROV	VN I	NTE	RN	ATI	ONA	۱L	INAC For Reference	EIVE Use Only	10	311	30
REVISION		В	-	TITLE: F			CONTRO)L	PRINT	S	к
MADE BY	TOM S	ZERENCS	5E		1	00v			SHEET	NO.	1
DATE	02-	12-97							CONT.	ON SH	2
PROJ.	I	D36Ø F		IRST M	ADE FOF	R: CT	10 SER	IES	DRAWN		KLW
	REVISI			SHEE		KAL II	TI-SUE			TC	·
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REFERENCE											
	□ 10/29/96	02-12-97									
SHEET NO.								ļ			
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	SHALL	NDT BE R BASIS F	EPRODUC	ED, COPIE MANUFACTL	D, OR US	ED LE	PE	<u> </u>	8	2	-19-97
CROWN INTER	OF APP			ES WITHOL		1	MFG	PHONE: 21	9-794-80	200	

CROWN INTERNATIONAL 101130										
REVISION	REVISION B TITLE: PWA, CT10 CONTROL PRINTS K									
MADE BY	том	SZERENCSE	-	100∨	SHEET NO. 2					
DATE	02	2-12-97			CONT.ON SH 3					
PROJ.	ROJ. D360 FIRST MADE FOR: CT10 SERIES				DRAWN KLW					
	REVISION CONTROL INFORMATION									
N/	NAME SHEET NO. SHEET REV. ACTION									
PAT V	WIERS	1-8	A	INITIAL RELEASE						
		З	в	INITIAL RELEASE OF 101130 NOTE 1 WAS 100285, NOTE 2	2 WAS 100283-1,					
		4	В	NOTE 3 WAS 101130-1, DELE NOTE 8 ADDED K931. 100283-2 WAS 100283-1,A10 A10265-10021 QTY WAS 11,C C 7817-7 QTY WAS 10, C103	1124-24 OTY WAS 8", 7873-0 OTY WAS 1,					
TOM SZ	TOM SZERENCSE		B	101031-1 WERE C 7817-7. A DELETED A10265-15011 AND DELETED C930, C931, HW1, C932 WAS NOT INSTALLED, A	NDDED C 9592-4. C 8982-8, AND L930.					
		6	В	DELETED R954-R956, Z900, ADDED Z930-Z935, W11-W13, V	Z902, Z903.					
		7 8	8	DELETED FIGURE 1. REPLACED COMPONENT MAP WI						
CROWN INTE	RNATIONAL I	NC., 1718 W. M	MISHAWAKA RD.	ELKHART IN. 46517 PHONE: 2	19-294-8000					

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 101526.
- 2. PWB PART NUMBER 100283-2.
- 3. PWA PART NUMBER 101130-2.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6.
- 7.
- 8. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 9. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.



	C	ROWN IN	ITERNAT:	IONAL	INC.	
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	PROJ.	D360	1 1011	30	CONT. ON ((B)

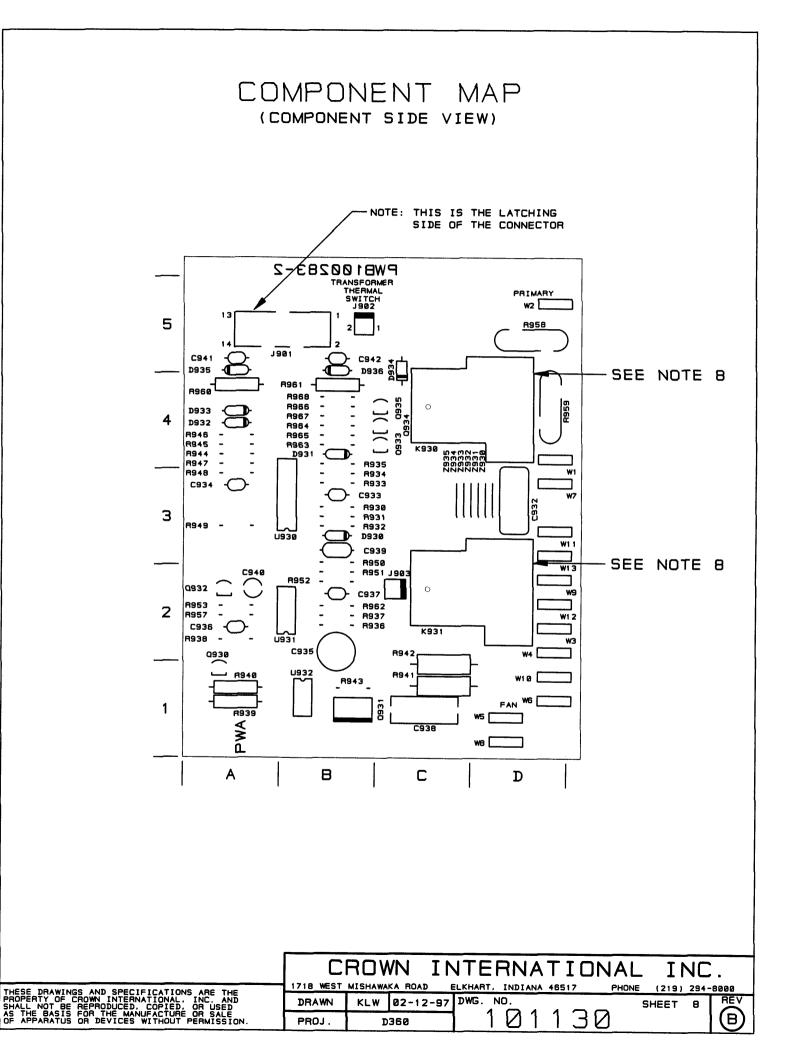
	PARTS LIS	Т	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
100283-2	PWB, CT10 CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1,W10,W2,W3,W4,W5,W6,W7,
			W8, W9, W11, W12, W13
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958
A10124-24	WIRE, #24 SOLID BUS	16"	R937, R959, Z930, Z931, Z932, Z93
			Z934, Z935
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938, R945, R947, R948, R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM . 25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM . 25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM . 25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM .25W 5% CF T/R	З	R932, R935, R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM .25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM . 25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	1	D934
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
С 3625-8	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	<u>C939</u>
C 6804-6	.1UF 50V AXIAL CER T/R 104	6	C933, C934, C936, C937, C941,
			C942
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
<u>C 7662-7</u>	MAC218A6 BAMP 400V TRIAC	1	Q931
<u>C 7664-3</u>	MOC3031 ZERO OPTO TRIAC	1	U932
<u>C 7873-0</u>	2POS . 1 CENTER MTA HEADER TI	2	J902, J903
<u>C 8369-8</u>	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	. 22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941,R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930,K931
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			NTERNATIONAL INC
E DRAWINGS AND SPECIA ERTY OF CROWN INTERNA L NOT BE REPRODUCED. HE BASIS FOR THE MAN PPARATUS OR DEVICES	FICATIONS ARE THE		ELKHART, INDIANA 46517 PHONE (219) 294-E
CONT OF LRUWN INTERNA	ATIONAL, INC. AND DRAWN KLW 02	-12-97	DWG. NU. SHEET 4

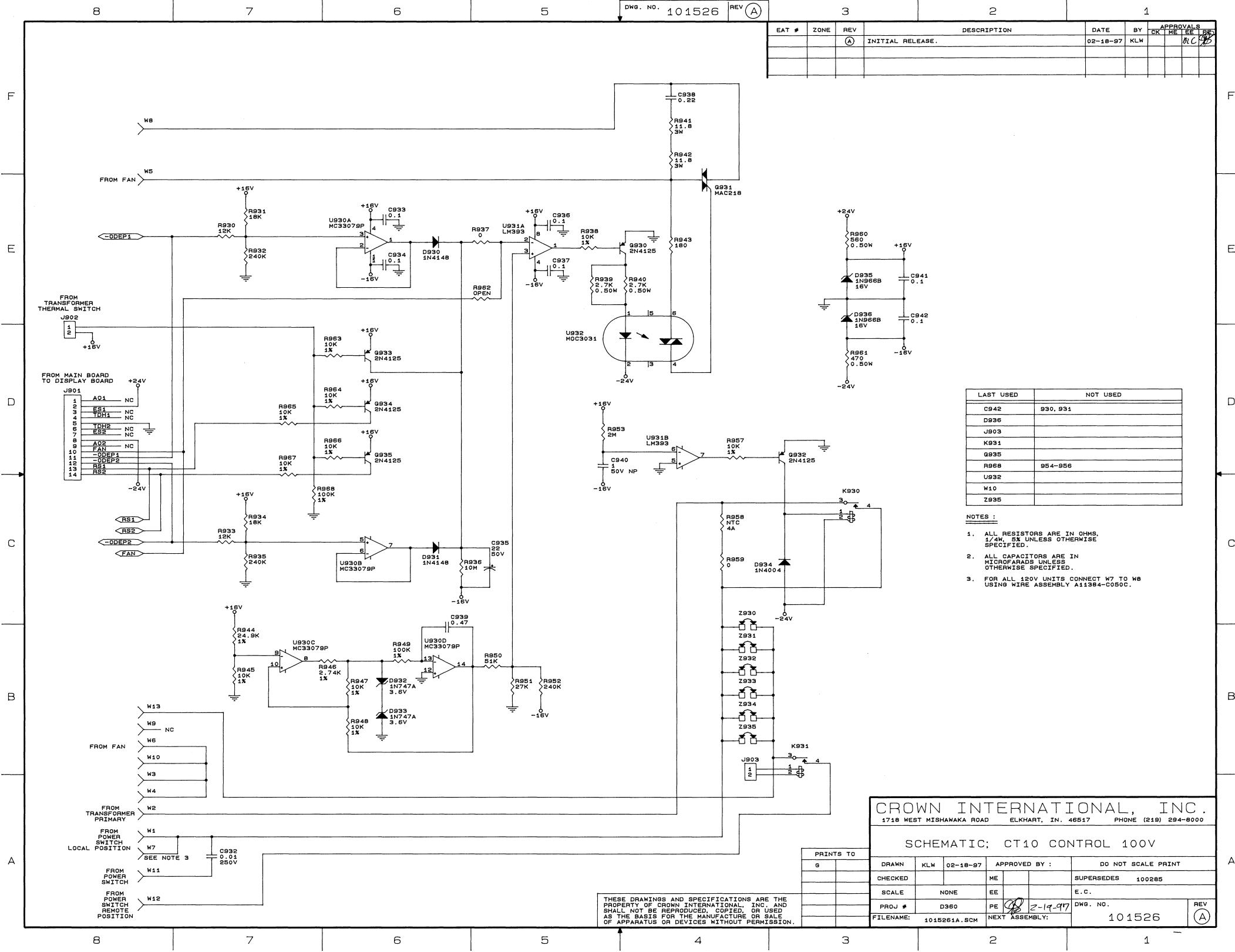
	C.P.N.	DESCRIPTION	
	100283-2		MAP LOC.
1		PWB, CT10 CONTROL, , ,	
2932	C 9592-4	.01 250VAC UL/CSA 20% FILM	DЗ
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
2935	<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	B 2
2936 2937	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
_ <u></u> _938	C 8554-5	.1UF 50V AXIAL CER T/R 104	B 2
_ <u></u>	C 6802-0	.22UF 250V 10% POLYESTER .47UF 50V AXIAL CER T/R 474	
 	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	B 3
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
 	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5 B 5
_ <u></u>	C 3181-2	DIODE, 1N4148 T/R	
D931	C 3181-2	DIODE, 1N4148 T/R	<u>B3</u>
0932	C 8369-8	1N747A 3.6V 5% ZENER .5W	B 4
0933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D933	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	A 4
D934	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	C 3533-4	DIODE, INSEE IEV ZENER I/R	A 5
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	85
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	B 5
903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	B 5
(930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
(930 <u>–</u>	C10335-5	RELAY, 30A 24V T90 SEALED CE	
2930	C 3625-8	2N4125 30V PNP T/R	
2931	C 7662-7	MAC218A6 BAMP 400V TRIAC	<u>A 1</u>
1937 1932	C 3625-8	2N4125 30V PNP T/R	<u>B 1</u>
1932	C 3625-8	2N4125 30V PNP T/R	A 2
1933 1934	C 3625-8	2N4125 30V PNP T/R	<u>B 4</u>
1935 1935	C 3625-8	2N4125 30V PNP T/R	B 4
1930	A10266-1231	12.KOHM .25W 5% CF T/R	83
1 <u>931</u>	A10266-1831	18. KOHM . 25W 5% CF T/R	<u> </u>
1932	A10266-2441	240. KOHM . 25W 5% CF T/R	
1933	A10266-1231	12.KOHM . 25W 5% CF T/R	<u> </u>
1934	A10266-1831	18. KOHM . 25W 5% CF T/R	83
1935	A10266-2441	240. KOHM . 25W 5% CF T/R	B 4
1936	A10266-1061	10. MOHM . 25W 5 CF25 T/R	B 2
1937	A10124-24	WIRE, #24 SOLID BUS	B 2
1938	A10265-10021	10. KOHM . 25W 1 MF T/R	A 2
1939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 2 A 1
1933	A10266-2722	2.7 KOHM .5W 5% CF T/R	
3941	C 9930-6	11.8 OHM 3W 5% WW T/R	
1942	C 9930-6	11.8 OHM 3W 5% WW T/R	
1942	A10266-1811	180. OHM .25W 5% CF25 T/R	
343	A10265-24921	24.9 KOHM . 25W 1% MF T/R	
			<u>A 4</u>
			+
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		CROWN INTERNATION	AL INC
DRAWINGS A	ND SPECIFICATIONS AR		PHONE (219) 294-
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REF DES	C. P. N.	PARTS LIST	MAP LOC.
7945	A10265-10021		A 4
7946	A10265-27411	2.74KOHM .25W 1% MF T/R	A 4
7947	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
7948	A10265-10021	10. KOHM . 25W 1 MF T/R	A 3
7949	A10265-10031	100. KOHM .25W 1 MF T/R	A 3
7950	A10266-5131	51. KOHM . 25W 5 CF25 T/R	В 3
7951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
7952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
7953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	D 5
7959	A10124-24	WIRE, #24 SOLID BUSS	D 4
3960	A10266-5612	56 <u>0. OHM .5W 5% CF T/R</u>	A 4
7961	A10266-4712	47 <u>0, 0.50W, 5%, CF</u>	B 4
7962		DO NOT INSTALL	B 2
R963	A10265-10021	1 <u>0. KOHM.25W1 MF T/R</u>	B 4
7964	A10265-10021	10. KOHM.25W 1 MF T/R	84
7965	A10265-10021	10. KOHM.25W 1 MF T/R	B 4
7966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
1968	A10265-10031		B 4
1930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	<u>B3</u>
J931	C 7444-0	LM393 DUAL COMPARATOR	<u>B 2</u>
1932	<u>C 7664-3</u>	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
N2	101031-1	FASTON, TAB . 250 PC MNT	D 5
NЭ	101031-1	FASTON, TAB . 250 PC MNT	D 2
N4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB . 250 PC MNT	D 1
N6	101031-1	FASTON, TAB . 250 PC MNT	D 1
N7	101031-1	FASTON, TAB . 250 PC MNT	D 3
WB	101031-1	FASTON, TAB . 250 PC MNT	D 1
N9	101031-1	FASTON, TAB . 250 PC MNT	D 2
N10	101031-1	FASTON, TAB . 250 PC MNT	<u>D 1</u>
W1 1	101031-1	FASTON, TAB 250 PC MNT	D 3
W1 2 W1 3	<u>101031-1</u> 101031-1	FASTON, TAB 250 PC MNT FASTON, TAB 250 PC MNT	D 2
2930	A10124-24	FASTON, TAB .250 PC MNT WIRE, #24 SOLID BUSS	<u>D3</u>
2930 2931	A10124-24	WIRE, #24 SOLID BUSS	D 3
2931	A10124-24	WIRE, #24 SOLID BUSS	D 3 D 3
2932 2933	A10124-24	WIRE, #24 SOLID BUSS	E U
2934	A10124-24	WIRE, #24 SOLID BUSS	D 3
2935	A10124-24	WIRE, #24 SOLID BUSS	D 3
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FIGURE 1

	С		 TERNA		- 1110.	
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CT810 Control Module 120V Information On Following Pages Documentation, Component Map, Schematic

CROW	/N I	NTE	RN	ATI	ONA	۱L	INACT	IVE Use Only	10	02	284
REVISION		С	т	ITLE: F	WA, C	T10	CONTRO	DL.	PRINTS	6	к
MADE BY	TOM S	ZERENC	5E		1	20V			SHEET	NO.	1
DATE	02-	12-97				CONT.C	N SH	2			
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CROWN INTERNA								PHONE: 21	9-294-800	10	

CROV	VN 1	NTER	NATI	ONAL <u>INACTIVE</u> For Reference Use Only	1002	84			
REVISION		С	TITLE: P	WA, CT10 CONTROL	PRINTS	к			
MADE BY	том	SZERENCSE		120V	SHEET NO.	2			
DATE	02	2-12-97			CONT.ON SH	З			
PROJ.		D360	FIRST MA	DE FOR: CT10 SERIES	DRAWN	KLW			
REVISION CONTROL INFORMATION									
NAN	ЛЕ	SHEET NO.	SHEET REV.	ACTION	· · · · · · · · · · · · · · · · · · ·				
PAT WIERS 1-8 A INITIAL RELEASE									
TOM SZE	RENCSE	1	В	TITLE CHANGE AND REV CHANGE					
TOM SZE	TOM SZERENCSE 2			TITLE CHANGE AND REV CHANGE					
TOM SZE	RENCSE	З	B	CHANGE NOTE 3, INITIAL RELEASE 100284-2					
TOM SZE	RENCSE	4	В	DELETE Z900, A10265-10031 QTY. WAS 3, K930 WAS C 9787-0 R959 WAS NTC 100445-1					
TOM SZE	RENCSE	5	в	K930 WAS C 9787-0					
TOM SZE	RENCSE	6	В	R956 DO NOT INSTALL R959 WAS NTC 100445-1 ZS	100 DO NOT I	NSTALL			
		З	С	INITIAL RELEASE OF 100284-3. NOTE 1 WAS 100285, NOTE 2 WAS 100283-1, NOTE 3 WAS 100284-2, DELETED NOTE 6 & 7,					
		4	C	NOTE 8 ADDED K931. 100283-2 WAS 100283-1,A10 A10265-10021 QTY WAS 11,C C 7817-7 QTY WAS 10, C103	124-24 GTY 7873-0 GTY 35-5 GTY WA	WAS 8", WAS 1, 5 1.			
TOM SZE	TOM SZERENCSE 5			101031-1 WAS C 7817-7. ADDED C 9592-4. DELETED A10265-15011 AND C 8982-8, DELETED C930, C931, HW1, AND L930. C932 WAS NOT INSTALLED, ADDED J903 & K931					
		6 7	C B	DELETED R954-R956, Z900, ADDED Z930-Z935,W11-W13,W DELETED FIGURE 1.	1-W10 WERE				
		8	<u>B</u>	REPLACED COMPONENT MAP WI	TH 100283C-	TOPSILK			

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 101527.
- 2. PWB PART NUMBER 100283-2.
- 3. PWA PART NUMBER 100284-3.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- Б.
- 7.
- 8. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 9. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.



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NS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	D	360	100	28	4	CONT. ON SHEET 4	(C)

	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
100283-2	PWB, CT10 CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1,W10,W2,W3,W4,W5,W6,W7,
			W8, W9, W11, W12, W13
100445-1	NTC, INRUSH CURR LIMITER 3A	1	R958
A10124-24	WIRE, #24 SOLID BUS	16"	R937, R959, Z930, Z931, Z932, Z93
			Z934, Z935
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938, R945, R947, R948, R957,
		1	R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM . 25W 5% CF T/R	1	R936
A10266-1231	12.KOHM . 25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM .25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM . 25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM . 25W 5% CF T/R	3	R932, R935, R952
A10266-2722	2.7 KOHM . 5W 5% CF T/R	2	R939, R940
A10266-2731		· · · · · · · · · · · · · · · · · · ·	
A10266-4712		1	R951
	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM . 25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/	1	D934
<u>C 3181-2</u>	DIODE, 1N4148 T/R	2	D930, D931
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
<u>C 3625-8</u>	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	C939
C 6804-6	1UF 50V AXIAL CER T/R 104	6	C933,C934,C936,C937,C941,
			C942
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
<u>C 7662-7</u>	MAC218A6 BAMP 400V TRIAC	1	Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC	1	U932
C 7873-0	2POS . 1 CENTER MTA HEADER TI	2	J902, J903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
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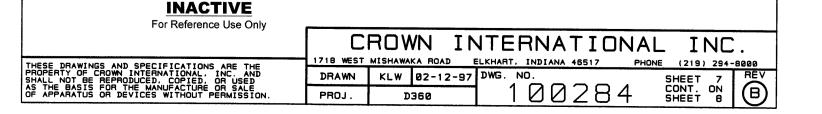
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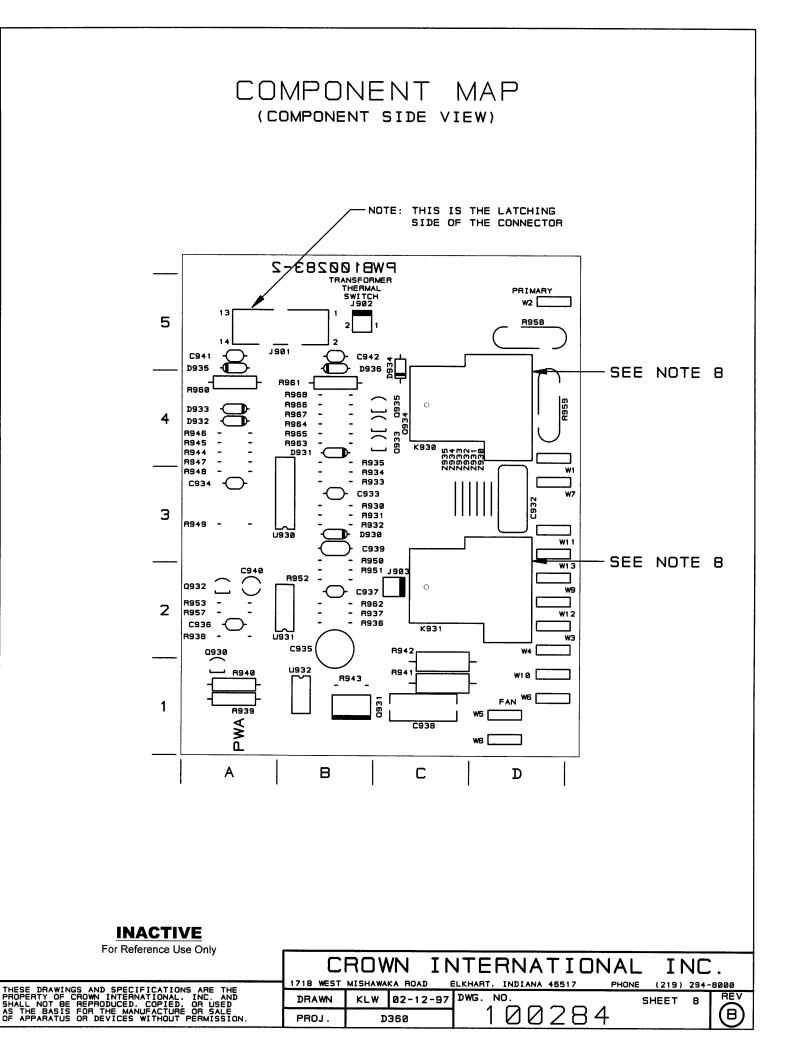
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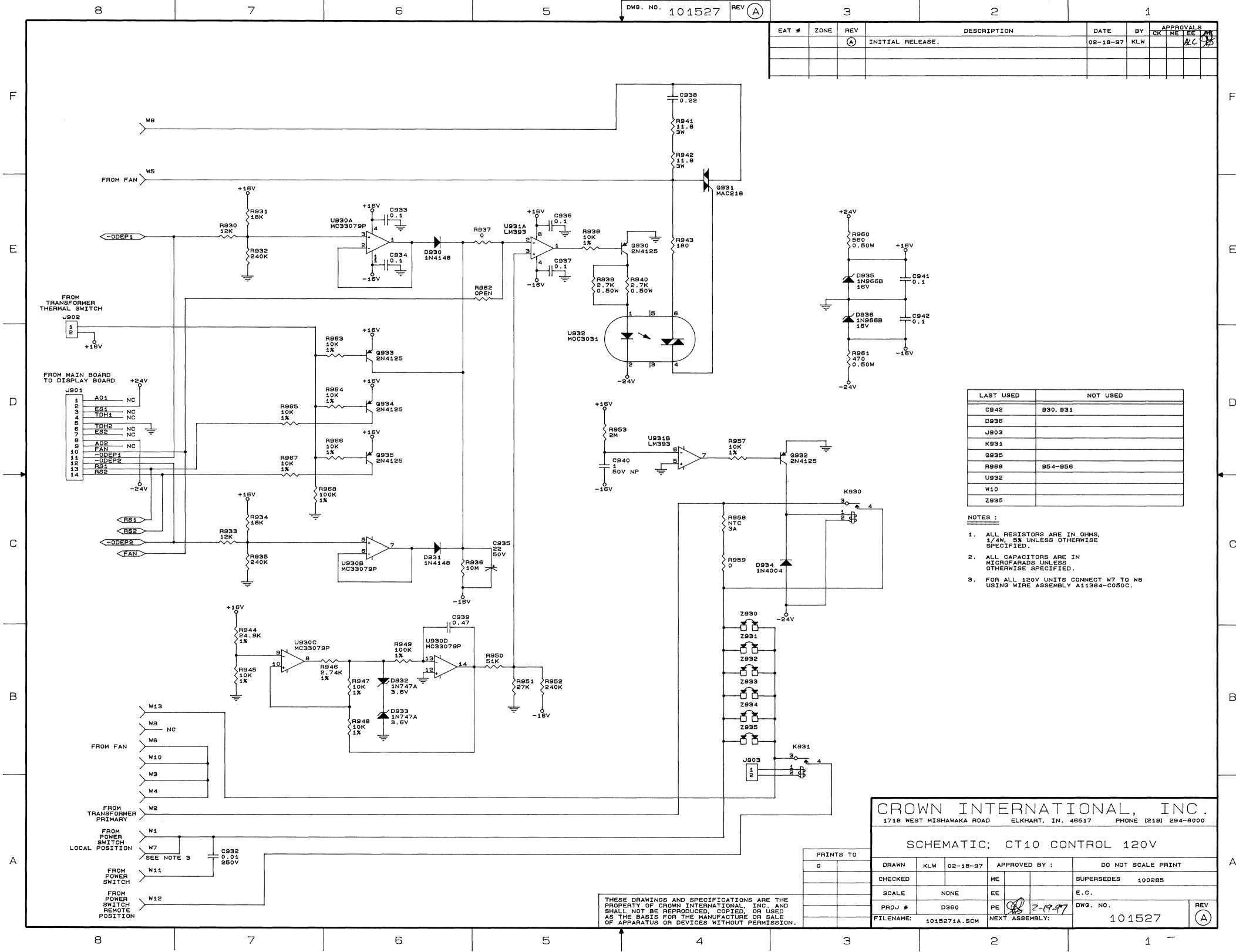
REE DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
1	100283-2	PWB, CT10 CONTROL, , ,	MAF LUL.
.932	C 9592-4	.01 250VAC UL/CSA 20% FILM	 D 3
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>B</u> 3
2934 2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
2935	C 5311-3	22UF 50V 20% NP VERT T/A	B 2
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
2937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
2938	C 8554-5	.22UF 250V 10% POLYESTER	C 1
2939	C 6802-0	. 47UF 50V AXIAL CER T/R 474	В 3
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	85
0930	C 3181-2	DIODE, 1N4148 T/R	B 3
0931	C 3181-2	DIODE, 1N4148 T/R	B 4
0932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
0933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
0934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 5
0935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
0936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	B 5
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	85
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
(930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
(931	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 2
0930	C 3625-8	2N4125 30V PNP T/R	A 1
0931	C 7662-7	MAC218A6 8AMP 400V TRIAC	B 1
1932	C 3625-8	2N4125 30V PNP T/R	A 2
1933	C 3625-8	2N4125 30V PNP T/R	B 4
1934	C 3625-8	2N4125 30V PNP T/R	B 4
1935	C 3625-8	2N4125 30V PNP T/R	B 4
1930	A10266-1231	12.KOHM .25W 5% CF T/R	83
R931	A10266-1831	18. KOHM .25W 5% CF T/R	вз
R932	A10266-2441	240. KOHM .25W 5% CF T/R	в 3
1933	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
1934	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
1935	A10266-2441	240. KOHM .25W 5% CF T/R	B 4
1936	A10266-1061	10. MOHM .25W 5 CF25 T/R	B 2
1937	A10124-24	WIRE, #24 SOLID BUS	B 2
R938	A10265-10021	10. KOHM.25W 1 MF T/R	A 2
1939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
8940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
8941	C 9930-6	11.8 OHM 3W 5% WW T/R	
8942	C 9930-6	11.8 OHM 3W 5% WW T/R	
8943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
8944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
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REF DES			
	L.P.N. A10265-10021	DESCRIPTION 10. KOHM.25W 1 MF T/R	MAP LOC.
R945	A10265-27411		A 4
R946	A10265-27411	2.74KOHM .25W 1% MF T/R 10. KOHM .25W 1 MF T/R	A 4
R947 R948	A10265-10021	10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	A 4 A 3
R949	A10265-10031	100. KOHM .25W 1 MF 1/R	A 3 A 3
R950	A10266-5131	51. KOHM . 25W 5 CF25 T/R	B 3
R951	A10266-2731	27. KOHM . 25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D 5
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962	A10200 4/12	DO NOT INSTALL	B 4
R963	A10265-10021	10. KOHM . 25W 1 MF T/R	B 4
R964	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R965	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R966	A10205-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R968	A10265-10031		B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	B 3
U931	C 7444-0	LM393 DUAL COMPARATOR	B 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB 250 PC MNT	D 4
W2	101031-1	FASTON, TAB . 250 PC MNT	D 5
W3	101031-1	FASTON, TAB . 250 PC MNT	D 2
W4	101031-1	FASTON, TAB . 250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1	FASTON, TAB . 250 PC MNT	D 1
W7	101031-1	FASTON, TAB . 250 PC MNT	DЗ
W8	101031-1	FASTON, TAB . 250 PC MNT	D 1
W9	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 Ø	101031-1	FASTON, TAB . 250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB .250 PC MNT	DЗ
W1 2	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 3	101031-1	FASTON, TAB .250 PC MNT	DЗ
Z930	A10124-24	WIRE, #24 SOLID BUSS	<u> </u>
Z931	A10124-24	WIRE, #24 SOLID BUSS	<u> </u>
Z932	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z933	A10124-24	WIRE, #24 SOLID BUSS	DЗ
Z934	A10124-24	WIRE, #24 SOLID BUSS	DЗ
Z935	A10124-24	WIRE, #24 SOLID BUSS	<u> </u>
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FIGURE 1







CT10 Control Module 220V/240V Information On Following Pages Documentation, Component Map, Schematic

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REVISION	8	TITLE: P	NA, CT10 CONTROL	PRINTS	к
MADE BY TOM	SZERENCSE		220/240	SHEET NO.	2
DATE Ø:	2-12-97			CONT.ON SH	3
PROJ.	D360	FIRST MA	DE FOR: CT10 SERIES	DRAWN	KLW
	REVIS	SION CON	TROL INFORMATION		
NAME	SHEET NO. S	HEET REV.	ACTION		
PAT WIERS	1-8	Α	INITIAL RELEASE		
	3 4	B	INITIAL RELEASE OF 101057 NOTE 2 WAS 100283-1,NOTE 3 DELETED NOTE 6 & 7, NOTE 8 100283-2 WAS 100283-1,A101 A10265-10021 OTY WAS 11,C C_7817-7 OTY WAS 10, C1033	3 WAS 10105 3 ADDED K93 124-24 QTY 7873-0 QTY 35-5 QTY WAS	1. WAS 6", WAS 1, 5 1.
TOM SZERENCSE	5	B	101031-1 WAS C 7871-7. AD DELETED A10265-15011 AND C DELETED C930, C931, HW1, A C932 WAS NOT INSTALLED, AD DELETED R954-R956, Z900, Z ADDED Z930-Z935, W11-W13, W	C 8982-8, AND L930. DDED J903 & 2902. 7903.	K931.
	7 8	8 8	DELETED FIGURE 1. REPLACED COMPONENT MAP WIT	FH 100283C-	TOPSILK

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 101058.
- 2. PWB PART NUMBER 100283-2.
- 3. PWA PART NUMBER 101057-2.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6.
- 7.

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- 8. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 9. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.



CROWN

D360

DRAWN

PROJ.

1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517

KLW 02-12-97 DWG. NO.

INTERNATIONAL

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INC

(219) 294-8000

SHEET 3 CONT. ON SHEET 4 REV

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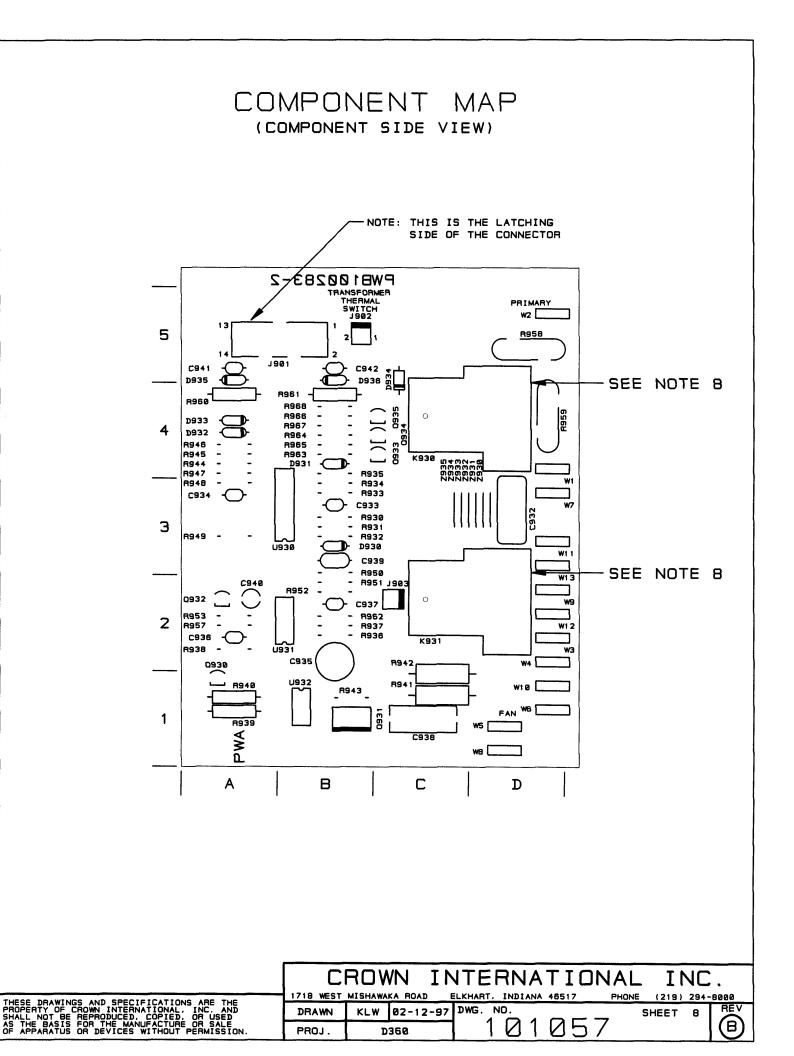
	PARTS LIS	Т	
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
100283-2	PWB, CT10 CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1, W10, W2, W3, W4, W5, W6, W7,
			W8, W9, W11, W12, W13
100445-1	NTC, INRUSH CURR LIMITER 3A	2	R958, R959
A10124-24	WIRE, #24 SOLID BUS	14"	R937, Z930, Z931, Z932, Z933, Z93
			Z935
A10265-10021	10. KOHM.25W1 MF T/R	10	R938, R945, R947, R948, R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM .25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM .25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM .25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM .25W 5% CF T/R	3	R932, R935, R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM .25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM .25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	1	D934
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
C 3625-8	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	C939
C 6804-6	.1UF 50V AXIAL CER T/R 104	6	C933, C934, C936, C937, C941,
			C942
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
C 7662-7	MAC218A6 8AMP 400V TRIAC	1	Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC	1	U932
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	1902, 1903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
		TN	TERNATIONAL INC
	1710 WEST MICHAWAKA D		NIEMINALIUNAL INL ELKHART, INDIANA 46517 PHONE (219) 294-6
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA L NOT BE REPRODUCED, HE BASIS FOR THE MANU PPARATUS OR DEVICES W	ICATIONS ARE THE TIONAL, INC. AND DRAWN KLW 02-	12-97	DWG. NO. SHEET 4
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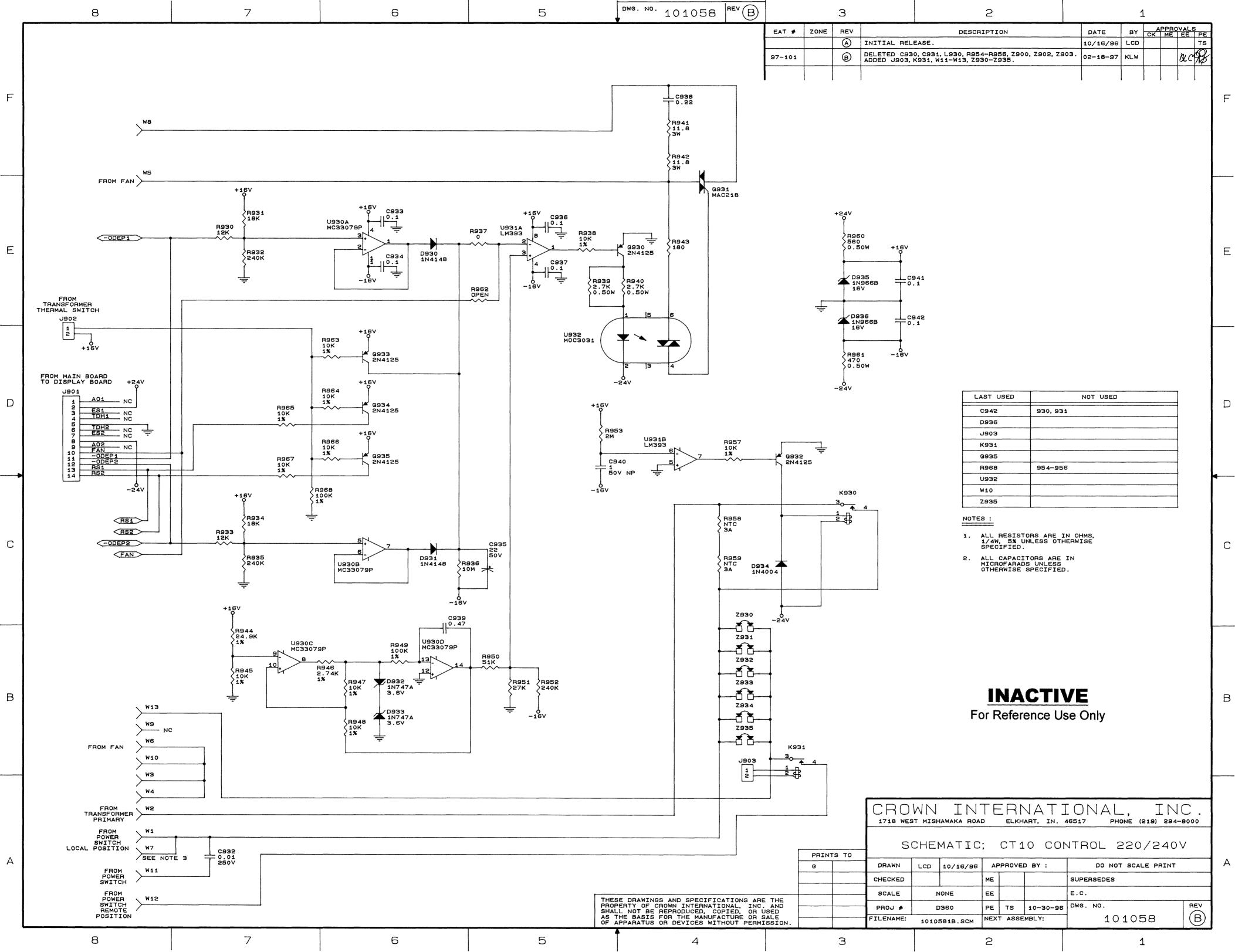
	C. P. N.		
			MAP LOC.
1	100283-2	PWB, CT10 CONTROL, , ,	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	<u>D3</u>
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u> </u>
C934	C 6804-6 C 5311-3	.1UF 50V AXIAL CER T/R 104	A 3
		22UF 50V 20% NP VERT T/A	B 2
2936 2937	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
	C 8554-5	.1UF 50V AXIAL CER T/R 104	B 2
2938		.22UF 250V 10% POLYESTER	
2939 2940	C 6802-0 C 8894-5	.47UF 50V AXIAL CER T/R 474	<u>B3</u>
_940 _941		1UF 50V VERT 10% NP ELECT T/R	A 2
_941 _942	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104 .1UF 50V AXIAL CER T/R 104	A 5
			85
D930	<u>C 3181-2</u>	DIODE, 1N4148 T/R	ВЗ
D931	<u>C 3181-2</u>	DIODE, 1N4148 T/R	<u>B4</u>
D932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D933	C 8369-8	1N747A 3.6V 5% ZENER .5W	<u>A 4</u>
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u>C5</u>
0935	<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	<u>A 5</u>
0936	<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	<u>B5</u>
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	<u>B5</u>
1902	<u>C 7873-0</u>	2POS .1 CENTER MTA HEADER TIN	85
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	<u>C 2</u>
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	<u>C 4</u>
<931	<u>C10335-5</u>	RELAY, 30A 24V T90 SEALED CE	<u>C 2</u>
2930	C 3625-8	2N4125 30V PNP T/R	<u>A 1</u>
2931	C 7662-7	MAC218A6 BAMP 400V TRIAC	B 1
2932	C 3625-8 C 3625-8	2N4125 30V PNP T/R 2N4125 30V PNP T/R	A 2
2933 2934	C 3625-8	2N4125 30V PNP 1/R 2N4125 30V PNP T/R	<u>B 4</u>
193 7 1935	C 3625-8	2N4125 30V PNP T/R	
1930	A10266-1231	12.KOHM .25W 5% CF T/R	B 4 B 3
7931	A10266-1831	18. KOHM . 25W 5% CF T/R	B 3
1932	A10266-2441	240. KOHM . 25W 5% CF T/R	B 3
1933	A10266-1231	12.KOHM .25W 5% CF T/R	83
1933 7934	A10266-1831	18. KOHM . 25W 5% CF T/R	83
1935	A10266-2441	240. KOHM . 25W 5% CF T/R	B 4
1936	A10266-1061	10. MOHM . 25W 5 CF25 T/R	B 4 B 2
1990 1937	A10124-24	WIRE, #24 SOLID BUS	B 2
1938	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
1939	A10266-2722	2.7 KOHM .5W 5% CF T/R	
1999	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	A 1
341	C 9930-6	11.8 OHM 3W 5% WW T/R	
1942	A10266-1811	180. OHM .25W 5% CF25 T/R	
1943	A10265-24921	24.9 KOHM . 25W 1% MF T/R	<u>B 1</u>
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		CROWN INTERNATION	AL INC
DRAWINGS A	ND SPECIFICATIONS AR		PHONE (219) 294-
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REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R945	A10265-10021	10. KOHM.25W1 MF T/R	A 4
R946	A10265-27411	2.74KOHM .25W 1% MF T/R	A 4
R947	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
R948	A10265-10021	10. KOHM .25W 1 MF T/R	A 3
R949	A10265-10031	100. KOHM .25W 1 MF T/R	AЗ
R950	A10266-5131	51. KOHM .25W 5 CF25 T/R	В 3
R951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 5
R959	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962 R963	A10265-10021	DO NOT INSTALL 10. KOHM .25W 1 MF T/R	<u>B 2</u>
R964	A10265-10021	10. KOHM .25W 1 MF T/R 10. KOHM .25W 1 MF T/R	<u>B4</u>
R965	A10265-10021	10. KOHM .25W 1 MF 1/R 10. KOHM .25W 1 MF T/R	B 4 B 4
R966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R968	A10265-10031		B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	B 3
U931	C 7444-0	LM393 DUAL COMPARATOR	B 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D 5
WЗ	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1	FASTON, TAB .250 PC MNT	D 1
W7	101031-1	FASTON, TAB . 250 PC MNT	DЗ
WB	101031-1	FASTON, TAB . 250 PC MNT	D 1
W9	101031-1	FASTON, TAB . 250 PC MNT	D 2
W1 Ø	101031-1	FASTON, TAB 250 PC MNT	D 1
W1 1 W1 2	101031-1 101031-1	FASTON, TAB 250 PC MNT	D 3
W12 W13	101031-1	FASTON, TAB .250 PC MNT FASTON, TAB .250 PC MNT	D 2
Z930	A10124-24	WIRE, #24 SOLID BUSS	D 3 D 3
Z931	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z932	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z933	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z934	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z935	A10124-24	WIRE, #24 SOLID BUSS	D 3
		CROWN INTERNATION	AL INC
			PHONE (219) 294-8
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FIGURE 1

	С	ROWN IN	ITERNA	TIONAL	_ INC	
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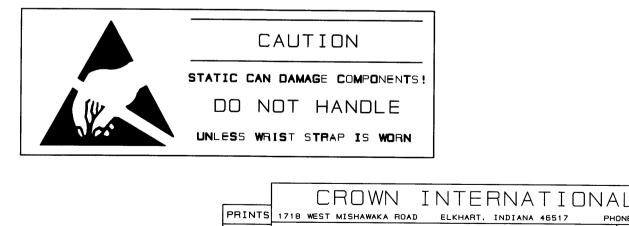


CT810A Control Module 100V 102833 Information On Following Pages Documentation, Component Map, Schematic

	E.C.N.	ZONE	REV.	DESCRIPTION	DATE		A	S		
					DATE	BY	СНК	ME	EE	PE
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NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102834.
- 2. PWB PART NUMBER 102824-1.
- 3. PWA PART NUMBER 102833-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

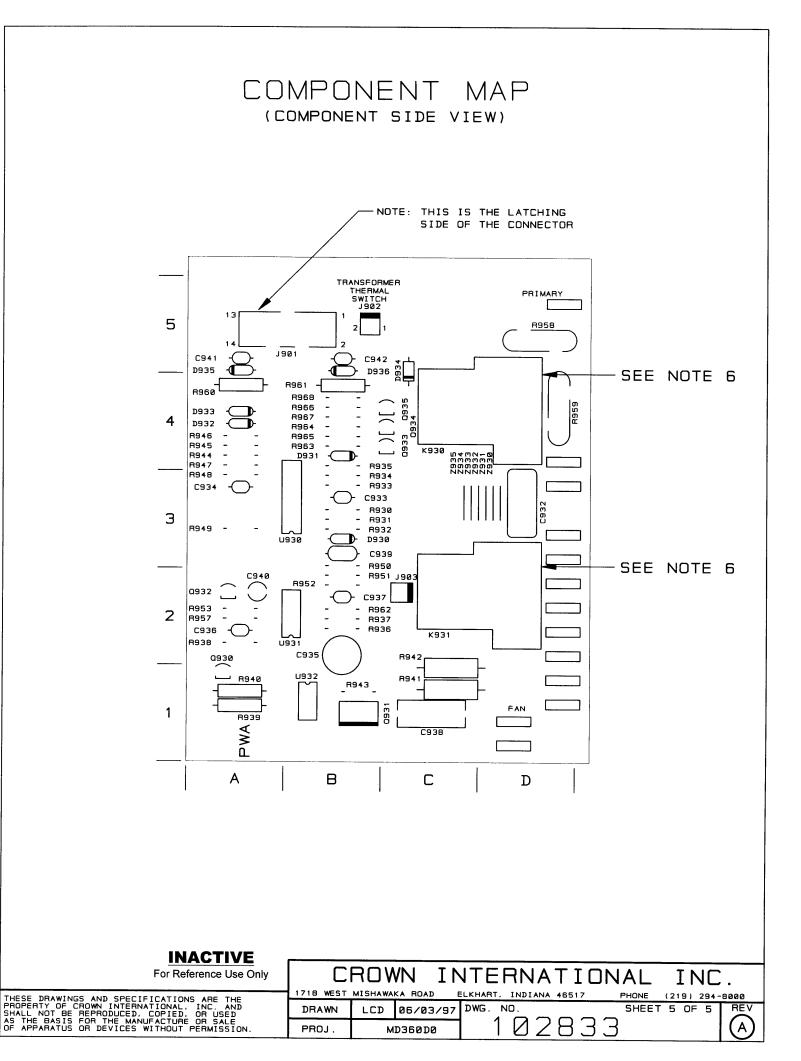


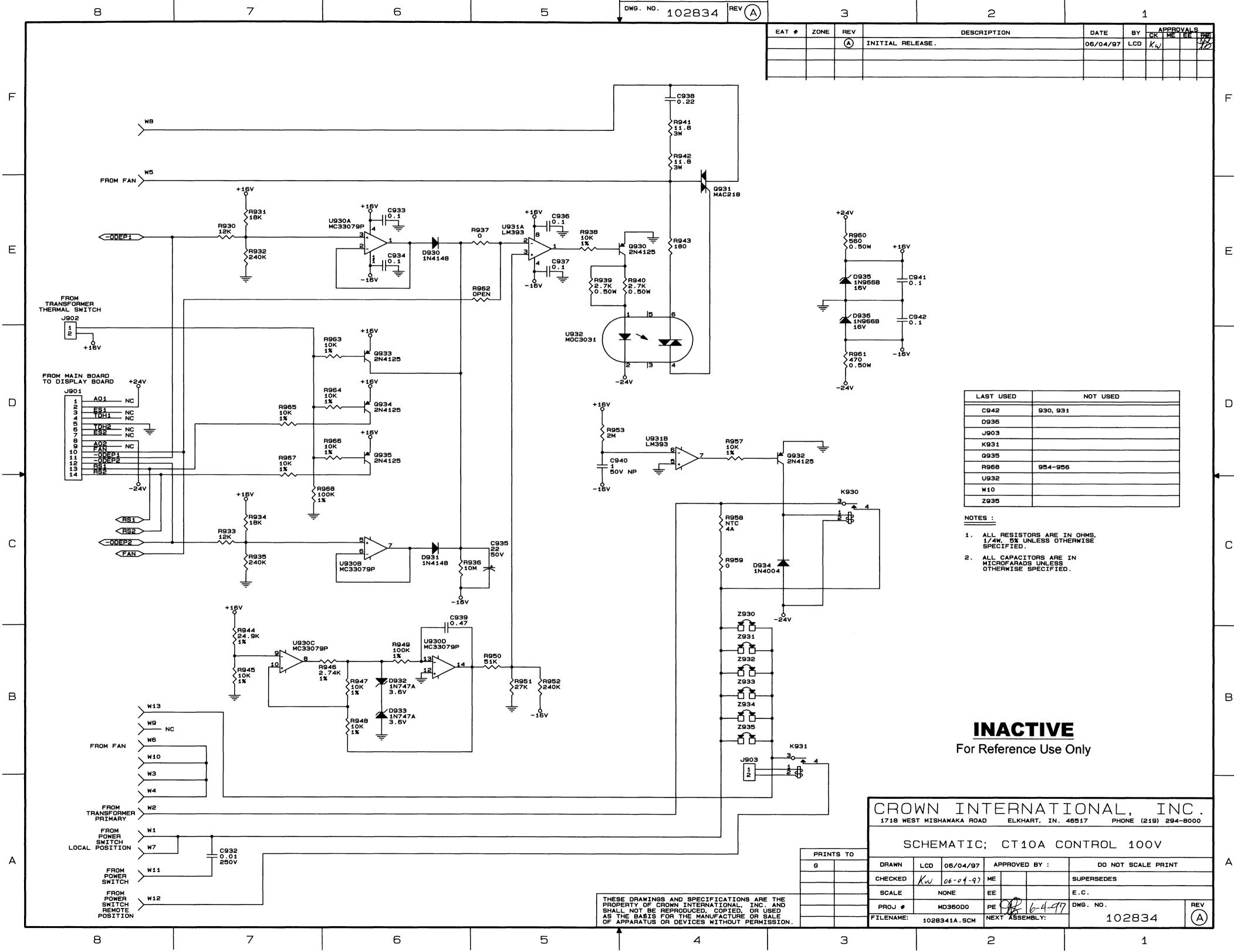
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	PRINTS	1718 WEST	MISHAWA	KA ROAD	ELKH	ART,	INDIANA 465	517 PH	IONE (219) 294-	8000	
	К	PW	PWA CT10A CONTROL 100V								
INACTIVE		DRAWN	LCD	06/03/97	AF	PRO	VED BY:	DO NOT SCALE PRINT			
For Reference Use Only		CHECKED	Κw	06-04-97	ME			SUPERSED	DES		
		SCALE	NONE EE					E.C.N.			
THESE DRAWINGS AND SPECIFICATIONS ARE PROPERTY OF CROWN INTERNATIONAL, INC.	PROJ #	ROJ # MD360D0 PE 6-4-9				6-4-97	DWG. NO.	SHEET 1 OF 5	REV		
SHALL NOT BE REPRODUCED, COPIED, OR USE AS THE BASIS FOR THE MANUFACTURE OR SAU OF APPARATUS OR DEVICES WITHOUT PERMISS	NEXT ASSEMBLY						102833				

· · · · · · 	PARTS LIS	<u> </u>	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
102824-1	PWB, CT10A CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1,W10,W2,W3,W4,W5,W6,W7,
			W8, W9, W11, W12, W13
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958
A10124-24	WIRE, #24 SOLID BUS	16"	R937, R959, Z930, Z931, Z932, Z93
			Z934, Z935
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938, R945, R947, R948, R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM . 25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM . 25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM . 25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM . 25W 5% CF T/R	3	R932, R935, R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM . 25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	· · · · ·	
		1	R961
A10266-5131	51. KOHM . 25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	1	D934
<u>C 3181-2</u>	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
C 3625-8	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	C939
C 6804-6	.1UF 50V AXIAL CER T/R 104	6	C933, C934, C936, C937, C941,
			C942
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
C 7662-7	MAC218A6 8AMP 400V TRIAC	1	Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC	1	U932
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
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		ΤN	ITERNATIONAL INC
	OF Reference Use Offiy		NIEMINAIIUINAL INL ELKHART, INDIANA 46517 PHONE (219) 294-8
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REF DES	C.P.N.	PARTS LIST	MAP LOC.
1	102824-1	PWB, CT10 CONTROL, , ,	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	DЭ
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	ВЗ
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
C935	C 5311-3	22UF 50V 20% NP VERT T/A	В 2
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C938	C 8554-5	.22UF 250V 10% POLYESTER	C 1
C939	C 6802-0	.47UF 50V AXIAL CER T/R 474	В 3
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 5
D930	C 3181-2	DIODE, 1N4148 T/R	ВЗ
D931	C 3181-2	DIODE, 1N4148 T/R	B 4
D932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	С 5
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	85
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
J902	C 7873-0	2POS . 1 CENTER MTA HEADER TIN	85
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
K930	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 4
K931	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 2
0930	C 3625-8	2N4125 30V PNP T/R	A 1
0931	C 7662-7	MAC218A6 BAMP 400V TRIAC	B 1
0932	C 3625-8	2N4125 30V PNP T/R	A 2
<u>0933</u>	C 3625-8	2N4125 30V PNP T/R	В 4
Q934	C 3625-8	2N4125 30V PNP T/R	B 4
0935	C 3625-8	2N4125 30V PNP T/R	B 4
R930		12.KOHM .25W 5% CF T/R	В 3
R931	A10266-1831	18. KOHM . 25W 5% CF T/R	В 3
R932	A10266-2441	240. KOHM 25W 5% CF T/R	В 3
R933	A10266-1231	12.KOHM .25W 5% CF T/R	ВЗ
R934	A10266-1831	18. KOHM . 25W 5% CF T/R	В 3
R935	A10266-2441	240. KOHM . 25W 5% CF T/R	B 4
R936	A10266-1061	10. MOHM . 25W 5 CF25 T/R	B 2
R937	A10124-24	WIRE, #24 SOLID BUS	B 2
R938	A10265-10021	10. KOHM . 25W 1 MF T/R	A 2
R939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
R940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
R942	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
R943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
R944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
			1
	INAC For Reference		
		E THE	PHONE (219) 294-E

REE DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R945	A10265-10021		A 4
R946	A10265-27411		A 4
R947	A10265-10021		A 4
R948	A10265-10021	10. KOHM . 25W 1 MF T/R	A 3
R949	A10265-10031		A 3
R950	A10266-5131	51. KOHM .25W 5 CF25 T/R	В 3
R951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM .25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962		DO NOT INSTALL	B 2
R963	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R964	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R965	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R966	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R967	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R968	A10265-10031	100. KOHM .25W 1 MF T/R	B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	В 3
U931	C 7444-0	LM393 DUAL COMPARATOR	B 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D 5
WЗ	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1	FASTON, TAB .250 PC MNT	D 1
W7	101031-1	FASTON, TAB .250 PC MNT	DЗ
W8	101031-1	FASTON, TAB .250 PC MNT	D 1
W9	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 Ø	101031-1	FASTON, TAB .250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB .250 PC MNT	DЗ
W12	101031-1	FASTON, TAB .250 PC MNT	D 2
W13	101031-1	FASTON, TAB . 250 PC MNT	D 3
Z930	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z931	A10124-24	WIRE, #24 SOLID BUSS	DЗ
Z932	A10124-24	WIRE, #24 SOLID BUSS	DЗ
Z933	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z934	A10124-24	WIRE, #24 SOLID BUSS	<u>D3</u>
Z935	A10124-24	WIRE, #24 SOLID BUSS	DЗ
	I		
	INAC For Reference		AL INC
		1718 WEST MISHAWAKA BOAD ELKHART, INDIANA 46517	PHONE (219) 294-8
ERTY OF CROU	AND SPECIFICATIONS ARE MN INTERNATIONAL, INC	AND DRAWN LCD 06/03/97 DWG. NO.	SHEET 4 OF 5





CT810A Control Module 100V 125420 Information On Following Pages Documentation, Component Map, Schematic

E.C.N.	ZONE	DEV	DESCRIPTION	DATE	D V	A	.s		
E.L.N.	ZUNE		DESCRIPTION	DATE	8Y	СНК	ME	EE	PE
		A	INITIAL RELEASE	11-04-97	KLW	IM			B

NOTES:

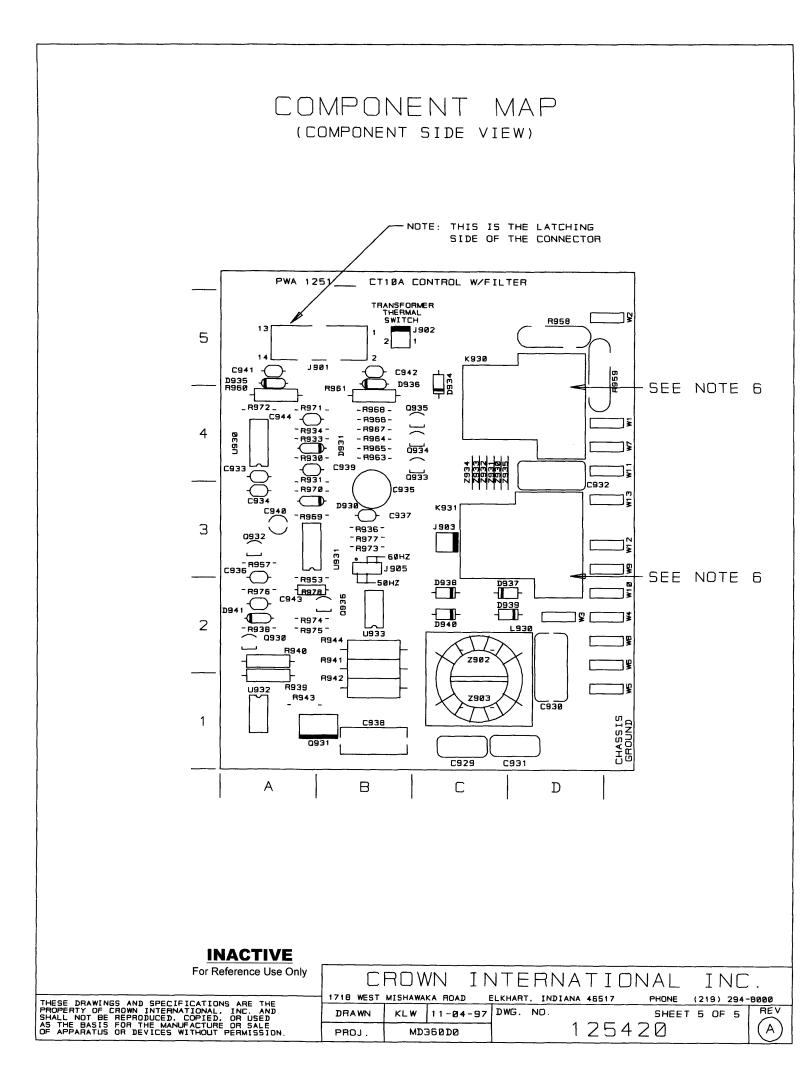
- 1. SCHEMATIC DRAWING NUMBER 125425.
- 2. PRINTED WIRING BOARD PART NUMBER 125415-1.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125420-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

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STAT	IC CAN	DAMAGE	сомро	NENTS !							
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	r		ROV		NΤ	ĒF	RNAT	IONAL INC.			
	PRINTS	1718 WEST	MISHAWA	KA ROAD	ELKH	IART,	INDIANA 46				
	К	PW	А СТ	10A C	DN.	TRC	IL 100	V TOL.UNLESS SPECIFIED X.XX = ± 0.020 X.XXX = ± 0.010 DRILLS = ± 0.003			
		DRAWN	KLW	11-04-97	A	PPRO	VED BY:	DO NOT SCALE PRINT			
								SUPERSEDES			
i of Reference Ose Only	For Reference Use Only							E.C.N.			
PROPERTY OF CROWN INTERNATIONAL, INC.	THE	PROJ #	MD	360D0	PE	EB	11-11-97	DWG. NO. SHEET 1 OF 5 REV			
SHALL NOT BE REPRODUCED, COPIED, OR US AS THE BASIS FOR THE MANUFACTURE OR SA OF APPARATUS OR DEVICES WITHOUT PERMIS:	D E SION.	NEXT ASS	EMBLY		L	<u> </u>	<u> </u>	125420			

	PARTS LIS	Т	· · · · · · · · · · · · · · · · · · ·
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	18"	R959,Z902,Z903,Z930,Z931,
<u></u>			Z932, Z933, Z934, Z935
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,
			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974,R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
<u>C 3549-0</u>	DIODE, ZENER 10V 1N5240B T/R	1	D941
<u>C 3625-8</u>	2N4125 30V PNP T/R	6	Q930,Q932,Q933,Q934,Q935,
			Q936
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	7	C933, C934, C936, C937, C941,
			C942,C943
C 6812-9	47PF 200V 10% NPO AXL CER	2	C939, C944
C 7444-0	LM393 DUAL COMPARATOR	1	U931
<u>C 7636-1</u>	MC33078P DUAL LOW NOISE OP A	1	U930
<u>C 7665-0</u>	MOC3011 OPTO TRIAC	1	U932
C 7746-8	3POS SGLROW HDR .025 POST G	1	J905
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	1	U933
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10325-6	2200.PF 250VAC 20% FILM Y2	2	C929, C931
C10326-4	.1UF 250VAC 20% FILM X2	1	C930
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930,K931
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
			W10,W11,W12,W13
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958
125106-1	MAC9D 8A 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1	
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REF DES		PARTS LIST DESCRIPTION	
C929	C10325-6	2200.PF 250VAC 20% FILM Y2	MAP LOC.
C930	C10325-6	.1UF 250VAC 20% FILM X2	
C931	C10325-6	2200.PF 250VAC 20% FILM Y2	· · · · · · · · · · · · · · · · · · ·
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C935	C 5311-3	22UF 50V 20% NP VERT T/A	
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	·····
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C938	C 8554-5	.22UF 250V 10% POLYESTER	
C939	C 6812-9	47PF 200V 10% NPO AXL CER	
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C943	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C944	C 6812-9	47PF 200V 10% NPO AXL CER	
D930	C 3181-2	DIODE, 1N4148 T/R	
D931	C 3181-2	DIODE, 1N4148 T/R	
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
J902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
J905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
K930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
K931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
L930 Q930	C 3625-8	OPEN 2N4125 30V PNP T/R	
Q931	125106-1	MAC9D 8AMP 400V TRIAC	
0932	C 3625-8	2N4125 30V PNP T/R	
0933	C 3625-8	2N4125 30V PNP T/R	
Q934	C 3625-8	2N4125 30V PNP T/R	
Q935	C 3625-8	2N4125 30V PNP T/R	
0936	C 3625-8	2N4125 30V PNP T/R	
R930	A10265-10021	10K OHM 0.25W 1% MF T/R	
R931	A10265-20021	20K OHM 0.25W 1% MF T/R	
R933	A10265-10021	10K OHM 0.25W 1% MF T/R	
R934	A10265-20021	20K OHM 0.25W 1% MF T/R	
R936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
R938	A10265-10021	10K OHM 0.25W 1% MF T/R	
R939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
R940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	
R942	C 9930-6	11.8 OHM 3W 5% WW T/R	
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E DRAWINGS	ND SPECIFICATIONS AR	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-E
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R944 12 R953 A1 R957 A1 R958 10 R959 A1 R959 A1 R959 A1 R959 A1 R960 A1 R961 A1 R963 A1 R964 A1 R965 A1 R966 A1 R967 A1 R968 A1 R969 A1 R969 A1 R970 A1 R971 A1 R973 A1 R974 A1 R975 A1 R976 A1 R977 A1 R978 C J930 C J933 C W1 10 W2 10	10266 - 1811 25158 - 1 10266 - 2051 10265 - 10021 01131 - 1 10124 - 24 10266 - 5612 10266 - 4712 10265 - 10021 10265 - 10021 10265 - 10021 10265 - 10021 10265 - 12121 10265 - 12121 10265 - 12121 10265 - 1221 10265 - 1221	2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 100K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12K OHM 0.25W 1% MF T/R 120K OHM 0.25W 5% CF T/R 4.3K OHM 0.25W 5% CF T/R 4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
R944 12 R953 A1 R957 A1 R958 10 R959 A1 R959 A1 R959 A1 R959 A1 R960 A1 R961 A1 R963 A1 R964 A1 R965 A1 R966 A1 R967 A1 R968 A1 R969 A1 R969 A1 R970 A1 R971 A1 R973 A1 R974 A1 R975 A1 R976 A1 R977 A1 R978 C J930 C J933 C W1 10 W2 10	25158-1 10266-2051 10265-10021 01131-1 10124-24 10266-5612 10266-4712 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-12121 10265-12121 10265-12121 10265-12121 10265-1241 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-20011	6.8K OHM 3W 5% MF T/R 2M OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R NTC. INRUSH CURRENT LIMITER 4A WIRE. #24 SOLID BUSS 560 OHM 0.50W 5% CF T/R 470 OHM 0.50W 5% CF T/R 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% MF T/R 120K OHM 0.25W 1% MF T/R 120K OHM 0.25W 1% MF T/R 120K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R	
R953 A1 R957 A1 R958 10 R959 A1 R959 A1 R960 A1 R961 A1 R963 A1 R963 A1 R963 A1 R963 A1 R963 A1 R963 A1 R964 A1 R965 A1 R966 A1 R967 A1 R969 A1 R970 A1 R971 A1 R973 A1 R973 A1 R975 A1 R976 A1 R977 A1 R978 A1 R978 C J930 C J931 C J933 C W1 10 W2 10 W3 10	10266-2051 10265-10021 01131-1 10124-24 10266-5612 10266-4712 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-12121 10265-12121 10265-12121 10265-12121 10265-12121 10265-12121 10265-12121 10265-10021 10265-10021 10265-10021 10265-20011	2M OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R NTC. INRUSH CURRENT LIMITER 4A WIRE. #24 SOLID BUSS 560 OHM 0.50W 5% CF T/R 470 OHM 0.50W 5% CF 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% MF T/R 120K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R	
R957 A1 R958 10 R959 A1 R960 A1 R961 A1 R963 A1 R964 A1 R965 A1 R966 A1 R967 A1 R968 A1 R969 A1 R967 A1 R968 A1 R969 A1 R970 A1 R971 A1 R972 A1 R973 A1 R974 A1 R975 A1 R976 A1 R977 A1 R978 A1 R978 A1 R978 C J930 C J931 C J933 C W1 10 W2 10 W3 10	10265 - 10021 01131 - 1 10124 - 24 10266 - 5612 10266 - 4712 10265 - 10021 10265 - 10021 10265 - 10021 10265 - 10021 10265 - 10021 10265 - 12121 10265 - 12021 10265 - 10021 10265 - 10021 10265 - 60431 10265 - 20011	10K OHM 0.25W 1% MF T/R NTC. INRUSH CURRENT LIMITER 4A WIRE. #24 SOLID BUSS 560 OHM 0.50W 5% CF T/R 470 OHM 0.50W 5% CF 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 100K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% MF T/R 120K OHM 0.25W 5% CF T/R 120K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R	
R958 10 R959 A1 R960 A1 R961 A1 R963 A1 R964 A1 R965 A1 R966 A1 R966 A1 R966 A1 R966 A1 R967 A1 R968 A1 R969 A1 R967 A1 R967 A1 R970 A1 R971 A1 R973 A1 R973 A1 R973 A1 R975 A1 R976 A1 R978 A1 R978 A1 R978 A1 R978 C J930 C J933 C W1 10 W2 10 W3 10	01131-1 10124-24 10266-5612 10266-4712 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-10021 10265-12121 10265-12121 10265-1241 10265-10021 10265-10021 10265-10021 10265-10021 10265-20011	NTC. INRUSH CURRENT LIMITER 4A WIRE. #24 SOLID BUSS 560 OHM 0.50W 5% CF T/R 470 OHM 0.50W 5% CF 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 100K OHM 0.25W 5% CF T/R 100K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 120K OHM 0.25W 1% MF T/R 120K OHM 0.25W 1% MF T/R 120K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R	
R959 A1 R960 A1 R961 A1 R963 A1 R964 A1 R965 A1 R966 A1 R967 A1 R966 A1 R966 A1 R967 A1 R968 A1 R969 A1 R967 A1 R970 A1 R971 A1 R972 A1 R973 A1 R974 A1 R975 A1 R976 A1 R977 A1 R978 A1 R978 A1 R978 A1 R978 C J930 C J931 C J933 C W1 10 W2 10 W3 10	10124-24 10266-5612 10265-10021 10265-10021 10265-10021 10265-2721 10265-2721 10265-10021 10265-10021 10265-12121 10265-12121 10265-1241 10265-10021 10265-10021 10265-20011	WIRE. #24 SOLID BUSS 560 OHM 0.50W 5% CF T/R 470 OHM 0.50W 5% CF 10K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R 2.7K OHM 0.25W 5% CF T/R 10K OHM 0.25W 5% CF T/R 100K OHM 0.25W 5% CF T/R 100K OHM 0.25W 1% MF T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12.1K OHM 0.25W 1% CF25 T/R 12K OHM 0.25W 1% CF25 T/R 12K OHM 0.25W 5% CF T/R 4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
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R973 A1 R974 A1 R975 A1 R976 A1 R977 A1 R978 A1 J930 C J931 C J933 C W1 10 W2 10 W3 10	10266-1241 10266-4321 10265-10021 10266-4321 10265-60431 10265-20011	120K OHM 0.25W 5% CF T/R 4.3K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
R974 A1 R975 A1 R976 A1 R977 A1 R978 A1 J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10	10266-4321 10265-10021 10266-4321 10265-60431 10265-20011	4.3K OHM 0.25W 5% CF T/R 10K OHM 0.25W 1% MF T/R 4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
R975 A1 R976 A1 R977 A1 R978 A1 J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10	10265-10021 10266-4321 10265-60431 10265-20011	10K OHM 0.25W 1% MF T/R 4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
R976 A1 R977 A1 R978 A1 J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10	10266-4321 10265-60431 10265-20011	4.3K OHM 0.25W 5% CF T/R 604K OHM 0.25W 1% MF T/R	
R977 A1 R978 A1 J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10	10265-60431 10265-20011	604K OHM 0.25W 1% MF T/R	
R978 A1 J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10	10265-20011		
J930 C J931 C J932 C J933 C W1 10 W2 10 W3 10			
J931 C J932 C J933 C W1 10 W2 10 W3 10	,,	2K OHM 0.25W 1% MF T/R MC33078P DUAL LOW NOISE OP AMP	
U932 C U933 C W1 10 W2 10 W3 10	7444-0	LM393 DUAL COMPARATOR	
U933 C W1 10 W2 10 W3 10	7665-0	MOC3011 OPTO TRIAC	
W1 1 @ W2 1 @ W3 1 @	9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W2 10 W3 10	9255-8	FASTON, TAB . 250 PC MNT	
W3 10	01031-1		
	01031-1	FASTON, TAB . 250 PC MNT FASTON, TAB . 250 PC MNT	
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12	25415-1	PWB, CT10A CONTROL, ,	
	INACT For Reference	Use Only CROWN INTERNATION	IAL INC
DRAWINGS AND S	SPECIFICATIONS ARE NTERNATIONAL, INC. UCED, COPIED, OR U E MANUFACTURE OR S	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN KLW 11-04-97 DWG. NO.	PHONE (219) 294- SHEET 4 OF 5



E.C.N.	ZONE	DEV	DESCRIPTION	DATE	BY	APPROVALS				
E. C. N.	ZUNE	HEV.				СНК	-	EE	PE	
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NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125425.
- 2. PRINTED WIRING BOARD PART NUMBER 125415-1.
- 3. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 4. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 6. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.
- 7. SOLDER C945 (C 6806-1) ACROSS R976 AS SHOWN ON THE COMPONENT MAP.



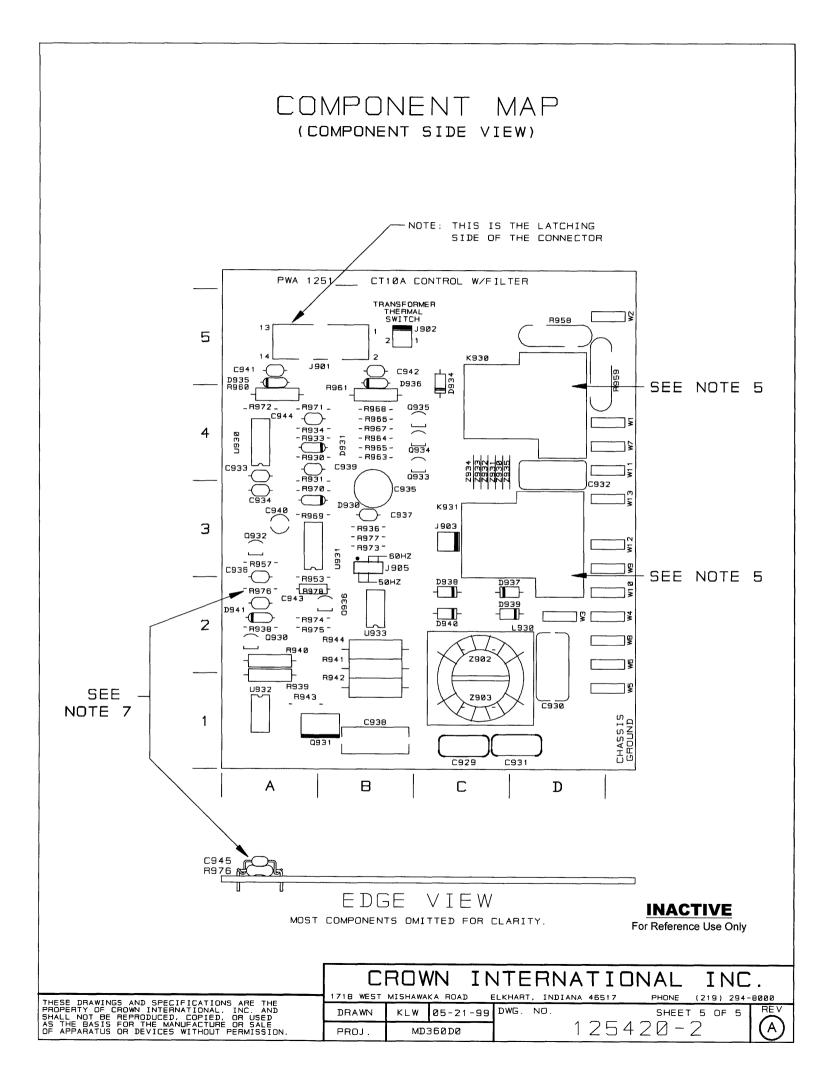
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THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AN	PROJ # MD360D0 PE EB 5-21-99					5-21-99	DWG. NO.	SHEET 1 OF 5	REV			
SHALL NOT BE REPRODUCED, COPIED, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSI	NEXT ASSEMBLY							125	420-2	(A)		

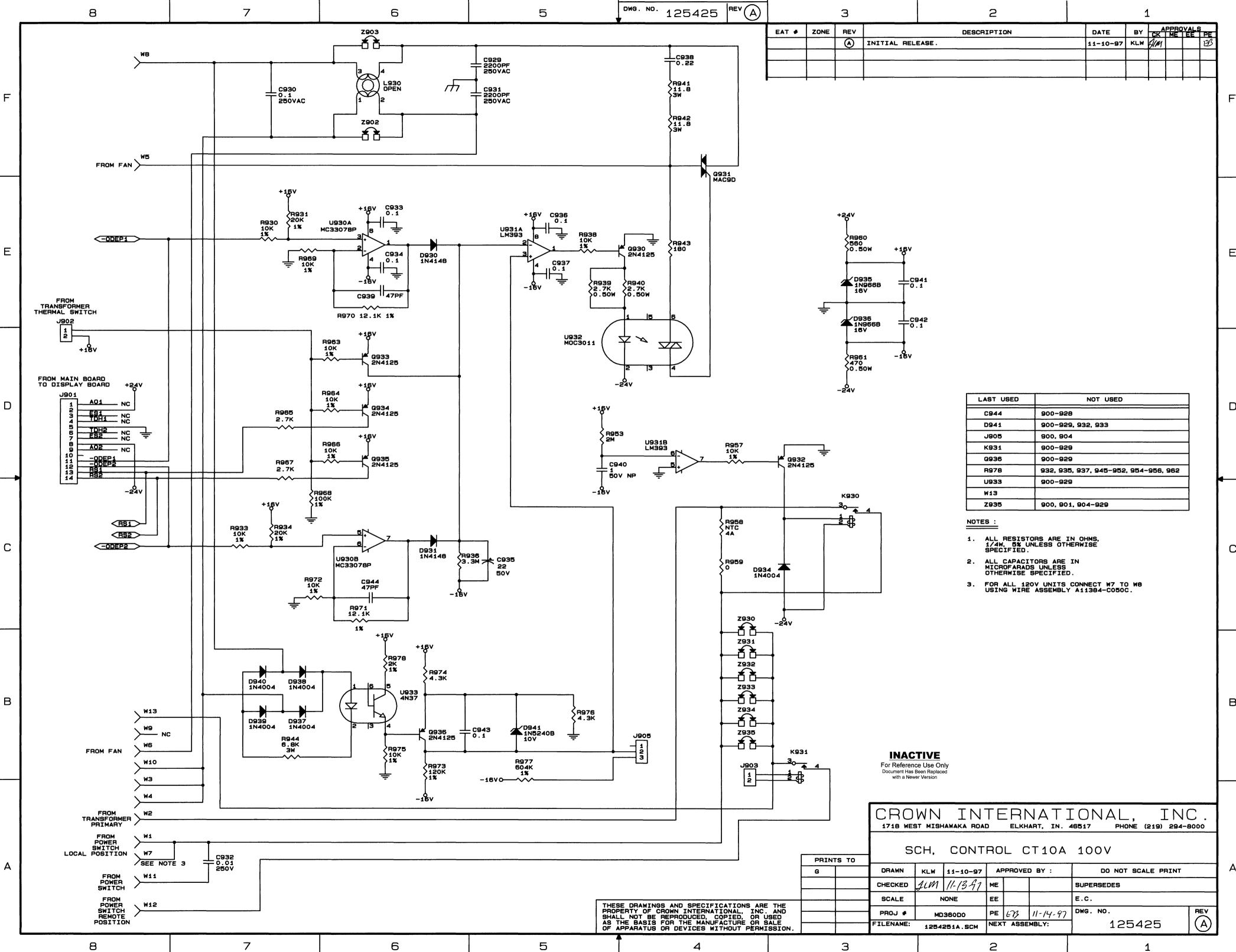
For Reference Use Only

	PARTS LIS	I		
C. P. N.	DESCRIPTION	ατγ	REFERENCE DESIGNATION	
A10124-24	WIRE, #24 SOLID BUS	18"	R959, Z902, Z903, Z930, Z931,	
			Z932, Z933, Z934, Z935	
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,	
			R964, R966, R969, R972, R975	
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968	
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971	
A10265-20011	2K OHM 0.25W 1% MF T/R		R978	
A10265-20021	20K OHM 0.25W 1% MF T/R		R931, R934	
A10265-60431			R977	
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973	
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943	
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953	
A10266-2721	2.7K OHM 0.25W 5% CF T/R		R965, R967	
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940	
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936	
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	8974,8976	
A10266-4712	470 OHM 0.50W 5% CF	1	R961	
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960	
C 2851-1	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940	
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931	
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936	
C 3549-0	DIODE, ZENER 10V 1N5240B T/R	1	D941	
C 3625-8	2N4125 30V PNP T/R		Q930, Q932, Q933, Q934, Q935,	
			Q936	
C 5311-3	22UF 50V 20% NP VERT T/A			
C 6804-6	.1UF 50V 20% NF VERT T/A	1		
	TOP SOV AXIAL CER 17A 104		C933, C934, C936, C937, C941,	
C 6806-1	.01UF 100V AXIAL CER T/R	1	C942, C943	
C 6812-9	47PF 200V 10% NPO AXL CER	1	C945 C939, C944	
C 7444-0	LM393 DUAL COMPARATOR	1	U931	
C 7636-1		1	U930	
C 7665-0	MC33078P DUAL LOW NOISE OP A MOC3011 OPTO TRIAC		U932	
C 7746-8		1		
C 7873-0	3POS SGLROW HDR .025 POST G 2POS .1 CENTER MTA HEADER TI		J905	
C 8554-5		2	J902, J903	
C 8894-5	.22UF 250V 10% POLYESTER		C938	
C 9255-8	1UF 50V VERT 10% NP ELECT T/			
C 9592-4	4N37 PHOTOXSISTOR OPTO ISOLR	1	U933	
C 9885-2	.01 250VAC UL/CSA 20% FILM	1	C932	
C 9930-6	14PIN DUAL ROW HDR .1 X.1 CT		J901	
	11.8 OHM 3W 5% WW T/R	2	R941, R942	
C10325-6	2200.PF 250VAC 20% FILM Y2	2	C929, C931	
C10326-4	.1UF 250VAC 20% FILM X2	1	C930	
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931	
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,	
181124 1			W10, W11, W12, W13	
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958	
125106-1	MAC9D 8A 400V TRIAC		Q931	
125158-1	6.8K OHM 3W 5% WW T/R		R944	
125415-1	PWB, CT10A CONTROL, , ,	1		
-	Reference Use Only	IN	ITERNATIONAL INC	
	1718 WEST MISHAWAKA RO		LKHART, INDIANA 46517 PHONE (219) 294-8	
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA L NOT BE REPRODUCED. HE BASIS FOR THE MANU PPARATUS OR DEVICES W	ICATIONS ARE THE TIONAL, INC. AND DRAWN KLW 05-		DWG. NO. SHEET 2 OF 5	

	· · · · · · · · · · · · · · · · · · ·	PARTS LIST		
REF DES	6 C.P.N.	DESCRIPTION	MAP LOC.	
C929	C10325-6	2200.PF 250VAC 20% FILM Y2		
C930	C10326-4	.1UF 250VAC 20% FILM X2		
C931	C10325-6	2200.PF 250VAC 20% FILM Y2		
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM		
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C935	C 5311-3	22UF 50V 20% NP VERT T/A		
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C938	C 8554-5	. 22UF 250V 10% POLYESTER		
C939	C 6812-9	47PF 200V 10% NPO AXL CER		
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R		
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C943	C 6804-6	.1UF 50V AXIAL CER T/R 104		
C944	C 6812-9	47PF 200V 10% NPO AXL CER		
C945	C 6806-1	.01UF 100V AXIAL CER T/R		
D930	C 3181-2	DIODE, 1N4148 T/R		
D931	C 3181-2	DIODE, 1N4148 T/R		
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R		
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	· · · · · · · · · · · · · · · · · · ·	
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R		
D937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R		
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R		
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R		
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R		
D941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R		
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR		
J902	C 7873-0	2POS .1 CENTER MTA HEADER TIN		
1903	C 7873-0	2POS . 1 CENTER MTA HEADER TIN		
J905	C 7746-8	3POS SGLROW HDR .025 POST GOLD		
к930	C10335-5	RELAY, 30A 24V T90 SEALED CE		
K931	C10335-5	RELAY, 30A 24V T90 SEALED CE		
L930		OPEN		
Q930	C 3625-8	2N4125 30V PNP T/R		
Q931	125106-1	MAC9D BAMP 400V TRIAC		
0932	C 3625-8	2N4125 30V PNP T/R		
0933	C 3625-8	2N4125 30V PNP T/R		
Q934	C 3625-8	2N4125 30V PNP T/R		
Q935	C 3625-8	2N4125 30V PNP T/R		
Q936	C 3625-8	2N4125 30V PNP T/R		
R930	A10265-10021	10K OHM 0.25W 1% MF T/R		
R931	A10265-20021	20K OHM 0.25W 1% MF T/R		
R933	A10265-10021	10K OHM 0.25W 1% MF T/R		
R934	A10265-20021	20K OHM 0.25W 1% MF T/R		
R936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R		
R938	A10265-10021	10K OHM 0.25W 1% MF T/R		
R939	A10266-2722	2.7K OHM 0.50W 5% CF T/R		
R940	A10266-2722	2.7K OHM 0.50W 5% CF T/R		
R941	C 9930-6	11.8 OHM 3W 5% WW T/R		
R942	C 9930-6	11.8 OHM 3W 5% WW T/R		
	INACTIN For Reference Us			
E DRAWINGS AND SPECIFICATIONS ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-80 ERTY OF CROWN INTERNATIONAL, INC. AND DRAWN KLW 05-21-99 DWG. NO. SHEET 3 OF 5 L NOT BE REPRODUCED, COPIED, OR USED DRAWN KLW 05-21-99 DWG. NO. SHEET 3 OF 5 PPARATUS OR DEVICES WITHOUT PERMISSION. PROJ. MD360D0 125420-2 0				
enir UP L'HO	WIN INTERNATIONAL, INC.	AND DRAWN KLW 05-21-99 DWG. NO.	SHEET 3 OF 5	

REF DES		PARTS LIST DESCRIPTION	
R943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	MAP LOC.
R944	125158-1	6.8K OHM 3W 5% MF T/R	
R953	A10266-2051	2M OHM 0.25W 5% CF T/R	
R957		10K OHM 0.25W 1% MF T/R	
R958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	
R959	A10124-24	WIRE, #24 SOLID BUSS	
R960	A10266-5612		
	A10266-4712	560 OHM 0.50W 5% CF T/R	
<u>R961</u> R963		470 OHM 0.50W 5% CF	
R964		10K OHM 0.25W 1% MF T/R	
R965	A10266-2721	10K OHM 0.25W 1% MF T/R	,
R966		2.7K OHM 0.25W 5% CF T/R	
		10K OHM 0.25W 1% MF T/R	
R967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R968		100K OHM 0.25W 1% MF T/R	
R969		10K OHM 0.25W 1% MF T/R	
R970		12.1K OHM 0.25W 1% CF25 T/R	
R971		12.1K OHM 0.25W 1% CF25 T/R	
R972		10K OHM 0.25W 1% MF T/R	
R973	A10266-1241	120K OHM 0.25W 5% CF T/R	
R974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R975		10K OHM 0.25W 1% MF T/R	
R976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R977	A10265-60431	604K OHM 0.25W 1% MF T/R	
R978	A10265-20011	2K OHM 0.25W 1% MF T/R	
U930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
U931	C 7444-0	LM393 DUAL COMPARATOR	
U932	C 7665-0	MOC3011 OPTO TRIAC	
U933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W1	101031-1	FASTON, TAB .250 PC MNT	
W2	101031-1	FASTON, TAB .250 PC MNT	
EW	101031-1	FASTON, TAB .250 PC MNT	
W4	101031-1	FASTON, TAB .250 PC MNT	
W5	101031-1	FASTON, TAB .250 PC MNT	
W6	101031-1	FASTON, TAB .250 PC MNT	
W7	101031-1	FASTON, TAB .250 PC MNT	
W8	101031-1	FASTON, TAB .250 PC MNT	
W9	101031-1	FASTON, TAB .250 PC MNT	
W1 Ø	101031-1	FASTON, TAB .250 PC MNT	
W1 1	101031-1	FASTON, TAB .250 PC MNT	
W1 2	101031-1	FASTON, TAB .250 PC MNT	
W1 3	101031-1	FASTON, TAB .250 PC MNT	
Z902	A10124-24	WIRE, #24 SOLID BUSS	
Z903	A10124-24	WIRE, #24 SOLID BUSS	
Z930	A10124-24	WIRE, #24 SOLID BUSS	
Z931	A10124-24	WIRE, #24 SOLID BUSS	
Z932	A10124-24	WIRE, #24 SOLID BUSS	
Z933	A10124-24	WIRE, #24 SOLID BUSS	
Z934			
2934 Z935	A10124-24 A10124-24	WIRE, #24 SOLID BUSS	
2333		WIRE, #24 SOLID BUSS	
	125415-1	PWB, CT10A CONTROL, ,	
	INACT For Reference		ONAL INC
DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI		· — · · · —





CT10A Control Module 120V 125416 Information On Following Pages Documentation, Component Map, Schematic

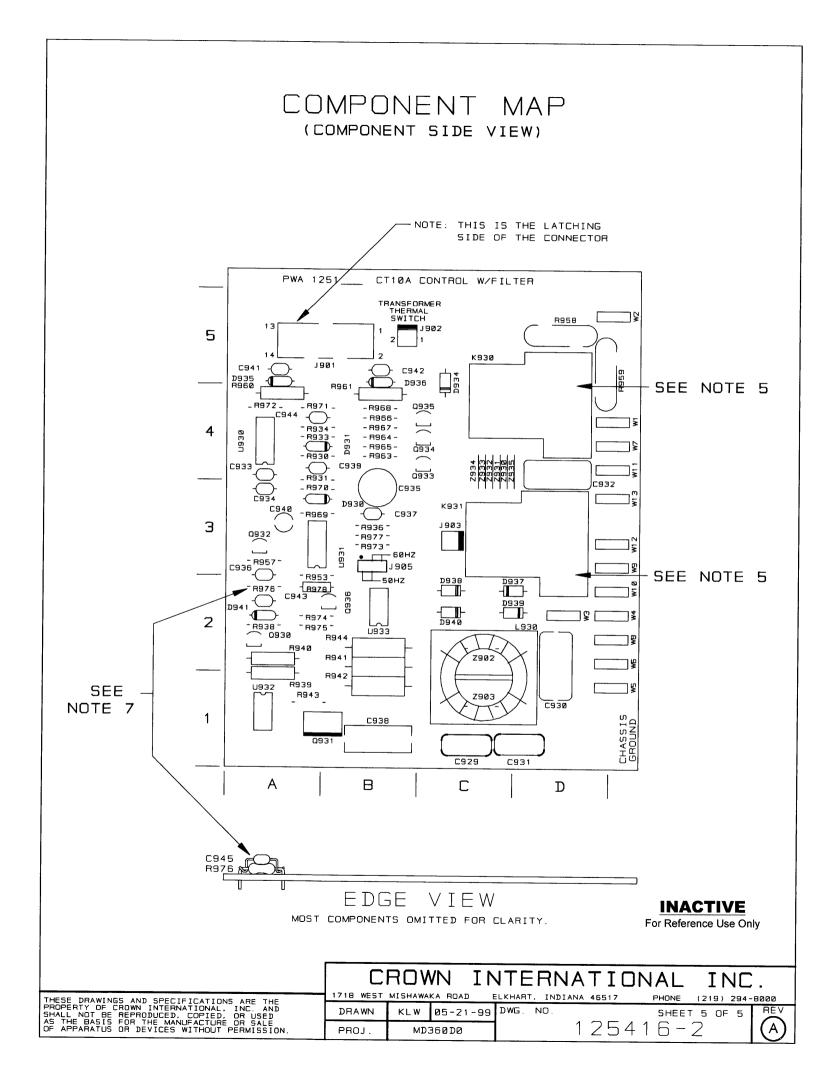
	E.C.N.	ZONE					PROVA	LS
	99E0216	ZUNE	A	DESCRIPTION INITIAL RELEASE FOR PRODUCTION.	DATE 05-21-99		EE Se NII	
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		1	I		1		I	1
UNLESS OTHEF	WISE S	SPEC	IFIE	D, THE FINISHED PWA SHALL MEET	:			
IPC-A-610_ C								
NOTES:								
1. SCHEMAT	IC DRA	WIN	S NU	MBER 125421.				
2. PRINTED	WIRIN	1G 8(DARD	PART NUMBER 125415-1.				
3. ALL LEA	DS SHA	NLL E	ЗЕ Т	RIMMED TO 0.093" OR LESS.				
4. POSITIC	N COMP	PONE	NTS	AS SHOWN ON COMPONENT MAP.				
				OF THE RELAY K930 AND K931 MUS				
				ROCESS, BY EITHER REMOVING THE THE CIRCULAR TAB WITH AN "EXAC"				
				OOL. WARNING, THIS STEP MUST BE				
THE CLE	ANING	PRO	CESS	NOT BEFORE!!! WATER OR CLEANIN	NG SOLV	ENTS		
				ENT HOLE WILL DAMAGE THE RELAY				
				R FOR THIS MODULE SHALL BE MARK D AND SHALL BE PERMANENT.	ED ON	THE		
				1) ACROSS R976 AS SHOWN ON THE				
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r								
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			L	CAUTION				
		STATI	C CA	N DAMAGE COMPONENTS!				
		D	υľ	NOT HANDLE	IN	ACTIV	Ξ	
		UNLE	SS W	RIST STRAP IS WORN		erence Use		
						, т.		-
		Г	PRINT	S 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 465			VC. 294-80	00
		ŀ	ĸ		т	OL.UNLESS		IED
		ŀ		- PWA CT10A CONTROL 120			- ± 0.	010
		Ī		DRAWN KLW 05-21-99 APPROVED BY:	DO NOT	SCALE F		
		ļ		CHECKED XX W WITH THE BAN STOTTI	SUPERSEDE	S]
THESE DRAWINGS AND SPEC	IFICATIONS		HE		E.C.N. DWG. NO.	SHEET 1 OF	<u> </u>	REV
THESE DRAWINGS AND SPEC PROPERTY OF CROWN INTER SHALL NOT BE REPRODUCED AS THE BASIS FOR THE MAN	NATIONAL, COPIED,	INC. A		PRUJ # MU36000 PE CJ 5-21-97				Â
AS THE BASIS FOR THE MAN OF APPARATUS OR DEVICES	WITHOUT	ËRMISS	ÎON.	NEXT ASSEMBLY	<u>1254</u>	- 10 -	<u> </u>	$\underline{\bigcirc}$

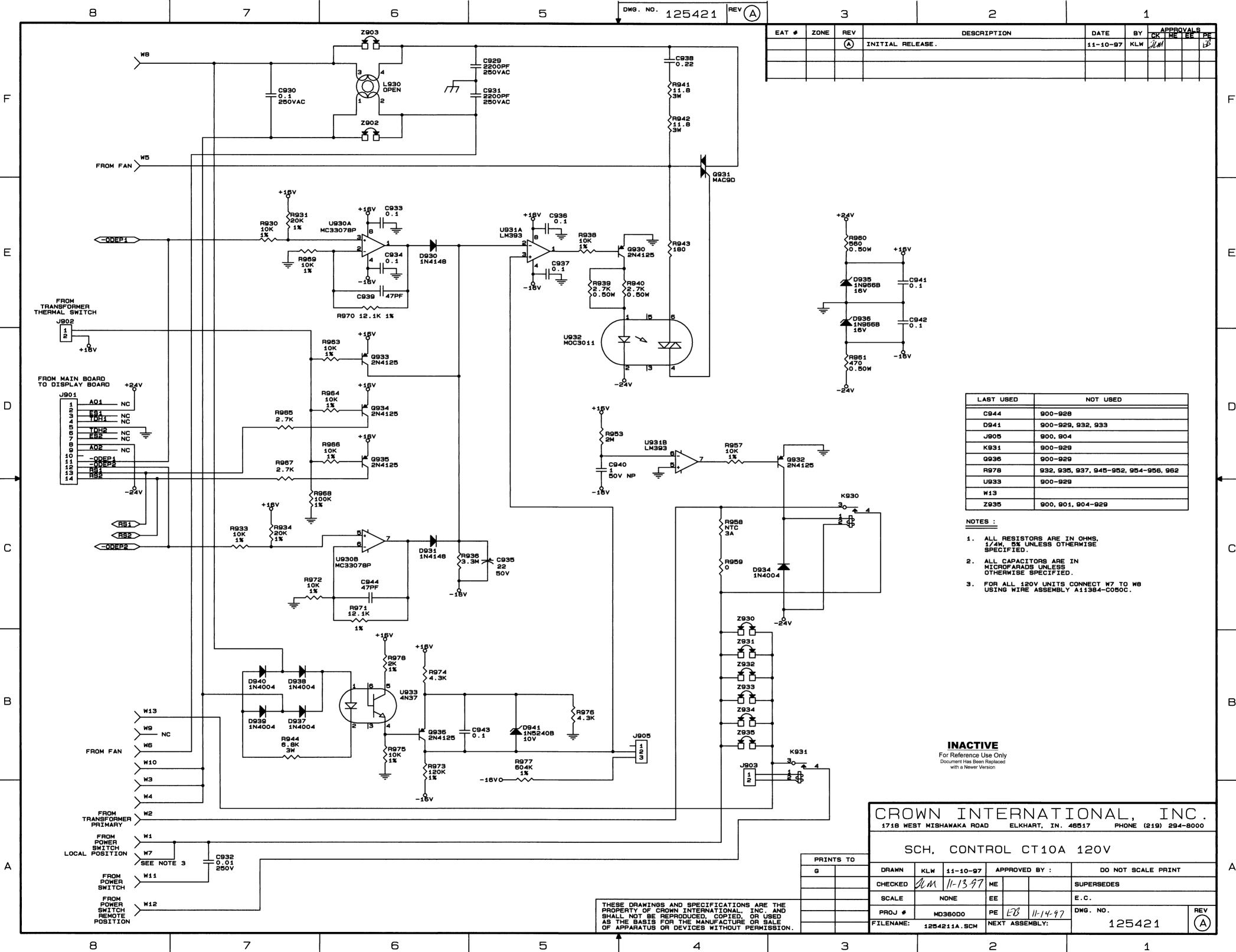
. P. N.			
	DESCRIPTION		REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	18"	R959, Z902, Z903, Z930, Z931,
448365 48834			Z932, Z933, Z934, Z935
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,
440005 40004			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939,R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974,R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	5	D934,D937,D938,D939,D940
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935,D936
C 3549-0	DIODE, ZENER 10V 1N5240B T/R	1	D941
C 3625-8	2N4125 30V PNP T/R	6	Q930,Q932,Q933,Q934,Q935,
			Q936
C 5311-3	22UF 50V 20% NP VERT T/A		C935
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	C933,C934,C936,C937,C941,
			C942,C943
C 6806-1	.01UF 100V AXIAL CER T/R	1	C945
C 6812-9	47PF 200V 10% NPO AXL CER	2	C939,C944
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7636-1	MC33078P DUAL LOW NOISE OP A	1	U930
C 7665-0	MOC3011 OPTO TRIAC	1	U932
C 7746-8	3POS SGLROW HDR .025 POST G	1	J905
C 7873-0	2POS . 1 CENTER MTA HEADER TI	2	J902, J903
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	1	_U933
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10325-6	2200.PF 250VAC 20% FILM Y2	2	C929, C931
C10326-4	.1UF 250VAC 20% FILM X2	1	C930
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930,K931
100445-1	NTC, INRUSH CURR LIMITER 3A	1	R958
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
			W10,W11,W12,W13
125106-1	MAC9D BA 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1	

For Reference Use Only	C	ROW	VN IN	ITERNAT	IONAL IN	IC.
	1718 WEST	MISHAWA	KA ROAD	ELKHART, INDIANA 40	5517 PHONE (219) 2	94-8000
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED, COPIED. OR USED	DRAWN	KLW	05-21-99	DWG. NO.	SHEET 2 OF	5 REV
SHALL NOT BE REPRODUCED, COPIED, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	MD	360D0	1 17	(A)	
OF AFFARATUS ON DEVICES WITHOUT FERMISSION.	11105.	IVID .	10000	' ~		

REF DF	SC.P.N.	PARTS LIST	MAP LOC.
C929	C10325-6	2200.PF 250VAC 20% FILM Y2	
C930	C10326-4	.1UF 250VAC 20% FILM X2	
2931	C10325-6	2200.PF 250VAC 20% FILM Y2	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2935	C 5311-3	22UF 50V 20% NP VERT T/A	
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2938	C 8554-5	.22UF 250V 10% POLYESTER	
2939	C 6812-9	47PF 200V 10% NPO AXL CER	
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2943	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2944	C 6812-9	47PF 200V 10% NPO AXL CER	
2945	C 6806-1	.01UF 100V AXIAL CER T/R	
D930	C 3181-2	DIODE, 1N4148 T/R	
D931	C 3181-2	DIODE, 1N4148 T/R	
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	
D937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D941	<u>C 3549-0</u>	DIODE, ZENER 10V 1N52408 T/R	
1901 1902	<u>C 9885-2</u> C 7873-0	14PIN DUAL ROW HDR .1 X.1 CTR 2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
930		OPEN	
	C 3625-8	2N4125 30V PNP T/R	
2931	125106-1	MAC9D 8AMP 400V TRIAC	
2932	C 3625-8	2N4125 30V PNP T/R	
2933	C 3625-8	2N4125 30V PNP T/R	
2934	C 3625-8	2N4125 30V PNP T/R	
2935	C 3625-8	2N4125 30V PNP T/R	
2936	C 3625-8	2N4125 30V PNP T/R	·····
930	A10265-10021	10K OHM 0.25W 1% MF T/R	
7931	A10265-20021	20K OHM 0.25W 1% MF T/R	
1933	A10265-10021	10K OHM 0.25W 1% MF T/R	
7934	A10265-20021	20K OHM 0.25W 1% MF T/R	
7936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
8565	A10265-10021	10K OHM 0.25W 1% MF T/R	
939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7941	C 9930-6	11.8 OHM 3W 5% WW T/R	
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	
	INACTI		
	For Reference Us		JNAL INC
	S AND SPECIFICATIONS AR ROWN INTERNATIONAL, INC REPRODUCED, COPIED, OR FOR THE MANUFACTURE OR OR DEVICES WITHOUT PERM	1718 WEST MISHAWAYA BOAD - ELYHART INDIANA 46617	PHONE (219) 294-

REF DES			
		DESCRIPTION	MAP LOC.
R943		180 OHM 0.25W 5% CF25 T/R 6.8K OHM 3W 5% MF T/R	
R944	125158-1		
R953	A10266-2051	2M OHM 0.25W 5% CF T/R	
R957		10K OHM 0.25W 1% MF T/R NTC, INRUSH CURRENT LIMITER 3A	
R958 R959	100445-1 A10124-24	WIRE, #24 SOLID BUSS	
R960	A10266-5612	560 OHM 0.50W 5% CF T/R	
R961	A10266-4712	470 OHM 0.50W 5% CF	
R963		10K OHM 0.25W 1% MF T/R	
R964		10K OHM 0.25W 1% MF T/R	
R965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R966		10K OHM 0.25W 1% MF T/R	
R967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R968		100K OHM 0.25W 1% MF T/R	
R969		10K OHM 0.25W 1% MF T/R	
R970		12.1K OHM 0.25W 1% CF25 T/R	
R971		12.1K OHM 0.25W 1% CF25 T/R	
R972		10K OHM 0.25W 1% MF T/R	
R973		120K OHM 0.25W 5% CF T/R	
R974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R975		10K OHM 0.25W 1% MF T/R	
R976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	· · · · · · · · · · · · · · · · · · ·
R977		604K OHM 0.25W 1% MF T/R	
R978	A10265-20011		
U930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
U931	C 7444-0	LM393 DUAL COMPARATOR	
U932	C 7665-0	MOC3011 OPTO TRIAC	
U933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
<u></u> W1	101031-1	FASTON, TAB .250 PC MNT	
W2	101031-1	FASTON, TAB .250 PC MNT	
WЭ	101031-1	FASTON, TAB .250 PC MNT	
W4	101031-1	FASTON, TAB .250 PC MNT	******
W5	101031-1	FASTON, TAB .250 PC MNT	
W6	101031-1	FASTON, TAB .250 PC MNT	
W7	101031-1	FASTON, TAB .250 PC MNT	
W8	101031-1	FASTON, TAB .250 PC MNT	
W9	101031-1	FASTON, TAB .250 PC MNT	
W1 Ø	101031-1	FASTON, TAB .250 PC MNT	
W1 1	101031-1	FASTON, TAB .250 PC MNT	
W1 2	101031-1	FASTON, TAB .250 PC MNT	
W1 3	101031-1	FASTON, TAB .250 PC MNT	
Z902	A10124-24	WIRE, #24 SOLID BUSS	
Z903	A10124-24	WIRE, #24 SOLID BUSS	
Z930	A10124-24	WIRE, #24 SOLID BUSS	
Z931	A10124-24	WIRE, #24 SOLID BUSS	
Z932	A10124-24	WIRE, #24 SOLID BUSS	
Z933	A10124-24	WIRE, #24 SOLID BUSS	
Z934	A10124-24	WIRE, #24 SOLID BUSS	
Z935	A10124-24	WIRE, #24 SOLID BUSS	
	125415-1	PWB, CT10A CONTROL, ,	
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CT10A Control Module 220V/240V 102831 Information On Following Pages Documentation, Component Map, Schematic

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DATE	01	СНК	ME	EE	PE
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				103/97 LCD Kw	

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102832.
- 2. PWB PART NUMBER 102824-1.
- 3. PWA PART NUMBER 102831-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

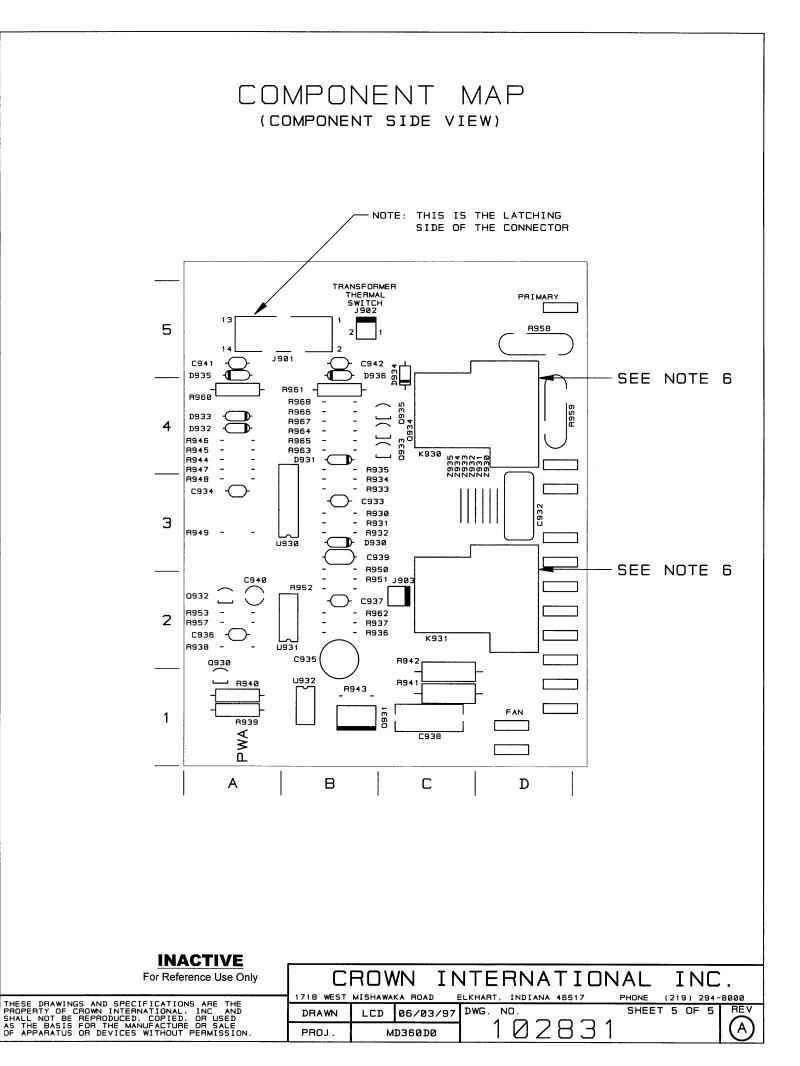


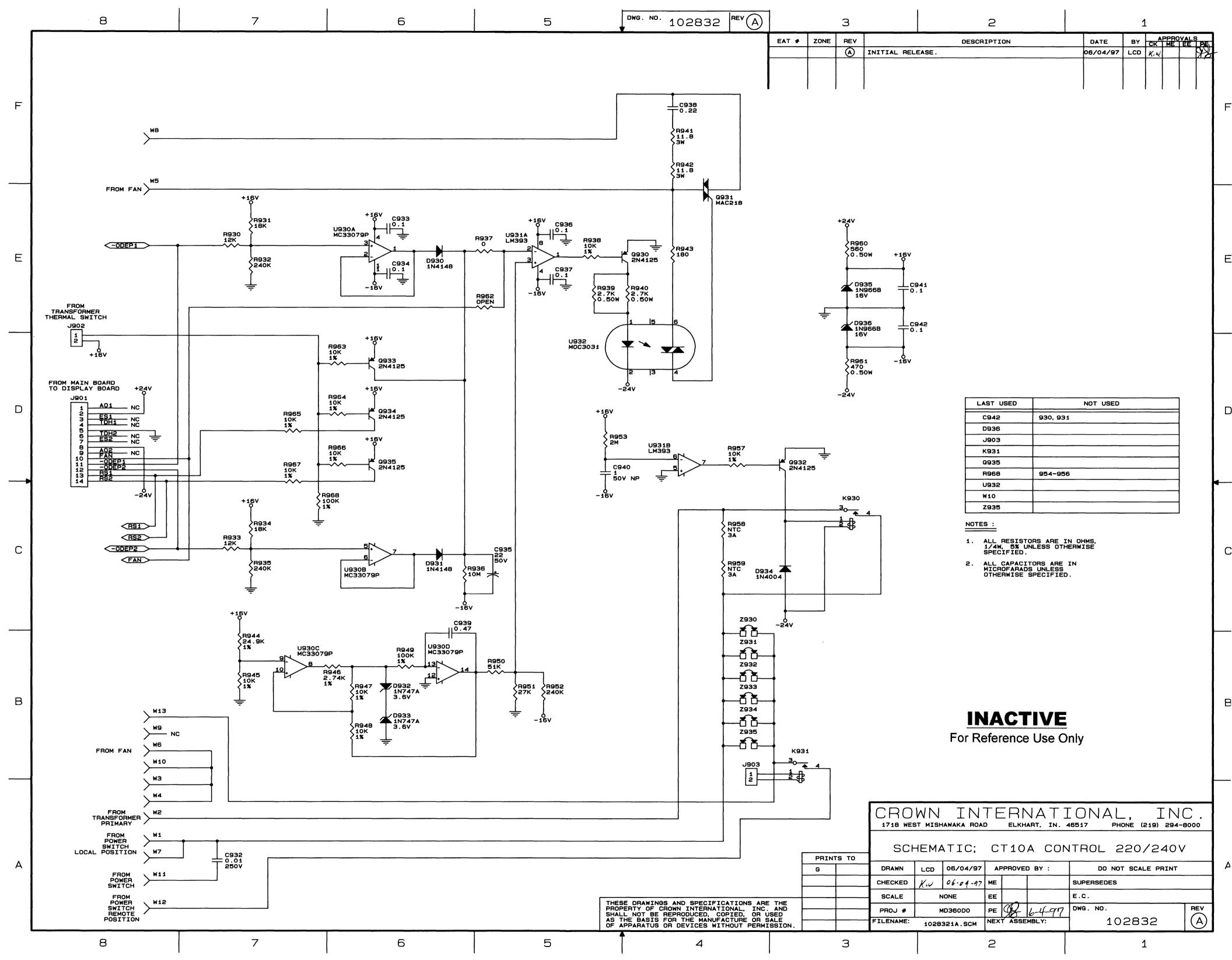
	PRINTS K	DI718 WEST			8000 IFIED 0.020 0.010						
INACTIVE		DRAWN LCD 06/03/97 APPROVED BY:					DO NOT SCALE PRINT				
For Reference Use Only		CHECKED	Kw	06.04.97	ME		SUPERSED	ES			
		SCALE NONE EE				E.C.N.					
THESE DRAWINGS AND SPECIFICATIONS ARE PROPERTY OF CROWN INTERNATIONAL, INC.	AND	PROJ # MD360D0		1D360D0	PE	1-4-97	DWG. NO.	SHEET 1 OF 5	REV		
SHALL NOT BE REPRODUCED, COPIED, OR US AS THE BASIS FOR THE MANUFACTURE OR SAL OF APPARATUS OR DEVICES WITHOUT PERMISS	NEXT ASSEMBLY				1028	(A)					

22824-1 PWB. CT10A CONTROL. 1 1 01031-1 FASTON, TAB.250 PC MNT 13 V 00445-1 NTC. INRUSH CURR LIMITER 3A 2 F 10124-24 WIRE. #24 SOLID BUS 14" F 10265-10021 10. KOHM.25W 1 MF T/R 10 F 10265-10031 100. KOHM.25W 1 MF T/R 10 F 10265-24921 24.9 KOHM.25W 1 X MF T/R 1 F 10265-24921 24.9 KOHM.25W 1X MF T/R 1 F 10265-24921 24.9 KOHM.25W 5X CF T/R 1 F 10266-1061 10. MOHM.25W 5X CF T/R 1 F 10266-1231 12.KOHM.25W 5X CF T/R 1 F 10266-2441 240. KOHM.25W 5X CF T/R 1 F 10266-2712 2.7 KOHM.5W 5X CF T/R 1 F 10266-2712 2.7 KOHM .25W 5X CF T/R 1 F 10266-2712 2.7 KOHM .25W 5X CF T/R 1 F 10266-2712 2.7 KOHM .25W 5X CF T/R 1 F 10266-2731	REFERENCE DESIGNATION
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ØØ445-1 NTC. INRUSH CURR LIMITER 3A Z F 10124-24 WIRE. #24 SOLID BUS 14" F 10265-10021 10. KOHM .25W 1 MF T/R 10 F 10265-10031 100. KOHM .25W 1 MF T/R 10 F 10265-24921 24.9 KOHM .25W 1% MF T/R 1 F 10265-24921 24.9 KOHM .25W 1% MF T/R 1 F 10265-24921 24.9 KOHM .25W 5% CF T/R 1 F 10265-1231 12.KOHM .25W 5% CF T/R 1 F 10266-1831 18. KOHM .25W 5% CF T/R 2 F 10266-2492 2.7 KOHM .25W 5% CF T/R 1 F 10266-2721 2.7 KOHM .25W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5% CF T/R 1 F 10266-5131 51. KOHM .25W 5% CF T/R 1 F 10266-5131 51. KOHM .25W 5% CF T/R 1 F 10266-5131 51. KOHM .25W 5% CF T/R 1 C 31	1
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10265-10021 10. KOHM .25W 1 MF T/R 10 F 10265-10031 100. KOHM .25W 1 MF T/R 10 F 10265-24921 24.9 KOHM .25W 1 MF T/R 1 F 10265-24921 24.9 KOHM .25W 1% MF T/R 1 F 10265-24921 24.9 KOHM .25W 1% MF T/R 1 F 10265-12401 12. XOHM .25W 5% CF T/R 1 F 10266-1231 12. KOHM .25W 5% CF T/R 2 F 10266-1811 180. OHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5% CF T/R 2 F 10266-2731 27. KOHM .25W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5% CF T/R 1 F 10266-512 560. OHM .5W 5% CF T/R 1 F 10266-5131 51. KOHM .25W 5 CF T/R 1 F 10266-512 560. OHM .5W 5% CF T/R 1 F 10266-513 51. KOHM .25W 5 K CF T/R 1 C	R958, R959
10265-10021 10. KOHM.25W 1 MF T/R 10 F 10265-10031 100. KOHM.25W 1 MF T/R 2 F 10265-24921 24.9 KOHM.25W 1% MF T/R 1 F 10265-27411 2.74KOHM.25W 1% MF T/R 1 F 10266-1061 10. MOHM.25W 5% CF T/R 2 F 10266-1061 10. MOHM.25W 5% CF T/R 2 F 10266-1811 180. OHM.25W 5% CF T/R 2 F 10266-2051 2 MOHM.25W 5% CF T/R 1 F 10266-2051 2 MOHM.25W 5% CF T/R 1 F 10266-2722 2.7 KOHM.5W 5% CF T/R 3 F 10266-2731 27. KOHM.25W 5 CF T/R 1 F 10266-5131 51. KOHM.25W 5% CF T/R 1 F 10265-513 51. KOHM.25W 5% CF T/R 1 F 3181-2	R937, Z930, Z931, Z932, Z933, Z93
Image: Note of the system of the sy	Z935
Image: Note of the system of the sy	R938, R945, R947, R948, R957,
10265-24921 24.9 KOHM .25W 1% MF T/R 1 10265-27411 2.74KOHM .25W 1% MF T/R 1 10266-1061 10. MOHM .25W 5% CF T/R 1 10266-1231 12.KOHM .25W 5% CF T/R 2 10266-1831 180. OHM .25W 5% CF T/R 2 10266-2051 2 MOHM .25W 5% CF T/R 1 10266-2051 2 MOHM .25W 5% CF T/R 1 10266-2722 2.7 KOHM .25W 5% CF T/R 2 10266-2731 27. KOHM .25W 5% CF T/R 3 10266-2731 27. KOHM .25W 5% CF T/R 1 10266-2731 27. KOHM .25W 5% CF T/R 1 10266-2731 27. KOHM .25W 5 CF T/R 1 10266-5131 51. KOHM .25W 5 CF T/R 1 10266-5131 51. KOHM .25W 5% CF T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 10266-5613 51. KOHM .25W 5% CF T/R 1 F 10266-5614 DIODE. 1N4148 T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C <t< td=""><td>R963, R964, R965, R966, R967</td></t<>	R963, R964, R965, R966, R967
10265-27411 2.74KOHM .25W 1% MF T/R 1 F 10266-1061 10. MOHM .25W 5% CF T/R 1 F 10266-1231 12.KOHM .25W 5% CF T/R 2 F 10266-1811 180. OHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 3 F 10266-2072 2.7 KOHM .5W 5% CF T/R 3 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-5131 51.KOHM .25W 5 CF T/R 1 F 10266-5612 560.OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER.1N4004 SILICON T/ 1 1 3181-2 DIODE, 1N4148 T/R 2 1 3625-8 2N4125 30V PNP T/R 5 0 5311-3 22UF 50V 20% NP VERT T/A 1 0 6802-0 .47UF 50V AXIAL CER T/R 474 1 0 <t< td=""><td>R949, R968</td></t<>	R949, R968
10265-27411 2.74KOHM .25W 1% MF T/R 1 F 10266-1061 10. MOHM .25W 5% CF T/R 1 F 10266-1231 12.KOHM .25W 5% CF T/R 2 F 10266-1811 180. OHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 3 F 10266-2072 2.7 KOHM .5W 5% CF T/R 3 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-2731 27.KOHM .25W 5% CF T/R 1 F 10266-5131 51.KOHM .25W 5 CF T/R 1 F 10266-5612 560.OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER.1N4004 SILICON T/ 1 1 3181-2 DIODE, 1N4148 T/R 2 1 3625-8 2N4125 30V PNP T/R 5 0 5311-3 22UF 50V 20% NP VERT T/A 1 0 6802-0 .47UF 50V AXIAL CER T/R 474 1 0 <t< td=""><td>R944</td></t<>	R944
10266-1061 10. MOHM .25W 5% CF T/R 1 F 10266-1231 12.KOHM .25W 5% CF T/R 2 F 10266-1811 180. OHM .25W 5% CF T/R 1 F 10266-1831 18.KOHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 1 F 10266-2051 2 MOHM .25W 5% CF T/R 3 F 10266-2722 2.7 KOHM .5W 5% CF T/R 3 F 10266-2731 27.KOHM .5W 5% CF T/R 1 F 10266-2731 27.KOHM .5W 5% CF T/R 1 F 10266-2731 27.KOHM .5W 5% CF T/R 1 F 10266-5131 51.KOHM .25W 5 CF T/R 1 F 10266-5612 560.OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER.1N4004 SILICON T/ 1 I 3181-2 DIODE.1N4148 T/R 2 I 3533-4 DIODE, 1N9668 16V ZENER T/R 1 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 5404-6 .1UF 50V AXIAL CER T/R 474 1 C 7444-0 LM393 DUAL COMPARAT	R946
10266-1231 12.KOHM.25W 5% CF T/R 2 7 10266-1811 180.OHM.25W 5% CF25 T/R 1 F 10266-1831 18.KOHM.25W 5% CF T/R 2 F 10266-2051 2 MOHM.25W 5% CF T/R 1 F 10266-2051 2 MOHM.25W 5% CF T/R 3 F 10266-2051 2 MOHM.25W 5% CF T/R 3 F 10266-2722 2.7 KOHM.5W 5% CF T/R 2 F 10266-2731 27.KOHM.25W 5 CF T/R 1 F 10266-4712 470.050W.5%.CF 1 F 10266-5612 560.OHM.5W 5% CF T/R 1 F 10266-5612 560.OHM.5W 5% CF T/R 1 F 2851-1 RECTIFIER.1N4004 SILICON T/ 1 D 3181-2 DIODE.1N4148 T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 7444-0 LM393 DUAL COMPARATOR 1 L 7558-7	R936
10266-1811 180. OHM .25W 5% CF25 T/R 1 F 10266-1831 18. KOHM .25W 5% CF T/R 2 F 10266-2051 2 MOHM .25W 5% CF T/R 1 F 10266-20722 2.7 KOHM .5W 5% CF T/R 3 F 10266-2731 27. KOHM .5W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5 CF T/R 1 F 10266-4712 470, 0.50W, 5%, CF 1 F 10266-5131 51. KOHM .25W 5 CF25 T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER, 1N4004 SILICON T/ 1 T 3181-2 DIODE, 1N4148 T/R 2 T 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 7544-0 LM393 DUAL COMPARATOR 1 L 7662-7 MC33079P QUAD LOW NOISE OP A 1 L 7664-3 MOC3031 ZERO OPTO TRI	R930, R933
10266-1831 18. KOHM .25W 5% CF T/R 2 10266-2051 2 MOHM .25W 5 CF T/R 1 10266-2441 240. KOHM .25W 5% CF T/R 3 10266-2722 2.7 KOHM .5W 5% CF T/R 3 10266-2731 27. KOHM .5W 5% CF T/R 1 10266-2731 27. KOHM .25W 5 CF T/R 1 10266-2731 27. KOHM .25W 5 CF T/R 1 10266-5131 51. KOHM .25W 5 CF T/R 1 10266-5612 560. OHM .5W 5% CF T/R 1 10266-5612 560. OHM .5W 5% CF T/R 1 110266-5612 560. OHM .5W 5% CF T/R 1 110266-5612 560. OHM .5W 5% CF T/R 1 1 111 RECTIFIER. 1N4004 SILICON T/ 1 1 111 RECTIFIER. 1N4004 SILICON T/ 1 1 111 3181-2 DIODE. 1N4148 T/R 2 1 111 3181-2 DIODE. 1N966B 16V ZENER T/R 2 1 111 3625-8 2N4125 30V PNP T/R 5 0 111 50V AXIAL CER T/R 474 1 0 111 602-0 .47UF 50V AXIAL CER T/	R943
10266-2051 2 MOHM .25W 5 CF T/R 1 F 10266-2441 240. KOHM .25W 5% CF T/R 3 F 10266-2722 2.7 KOHM .5W 5% CF T/R 2 F 10266-2731 27. KOHM .5W 5% CF T/R 1 F 10266-2731 27. KOHM .25W 5 CF T/R 1 F 10266-2731 51. KOHM .25W 5 CF T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER. 1N4004 SILICON T/ 1 F 3181-2 DIODE. 1N4148 T/R 2 F 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 758-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 BAMP 400V TRIAC 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 78369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER	R931, R934
10266-2441 240. KOHM .25W 5% CF T/R 3 F 10266-2722 2.7 KOHM .5W 5% CF T/R 2 F 10266-2731 27. KOHM .25W 5 CF T/R 1 F 10266-2731 27. KOHM .25W 5 CF T/R 1 F 10266-2731 51. KOHM .25W 5 CF T/R 1 F 10266-5131 51. KOHM .25W 5 CF T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER. 1N4004 SILICON T/ 1 I 3181-2 DIODE. 1N4148 T/R 2 I 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 5311-3 22UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 7662-7 MAC218A6 BAMP 400V TRIAC 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7839-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER	
10266-2722 2.7 KOHM .5W 5% CF T/R 2 10266-2731 27. KOHM .25W 5 CF T/R 1 10266-4712 470, 0.50W, 5%, CF 1 10266-5131 51. KOHM .25W 5 CF25 T/R 1 10266-5612 560. OHM .5W 5% CF T/R 1 10266-5612 560. OHM .5W 5% CF T/R 1 10266-5612 560. OHM .5W 5% CF T/R 1 11 RECTIFIER. 1N4004 SILICON T/ 1 11 RECTIFIER. 1N4004 SILICON T/ 1 11 JIODE. 1N4148 T/R 2 1 3181-2 DIODE. 1N966B 16V ZENER T/R 2 1 3625-8 2N4125 30V PNP T/R 5 0 5311-3 22UF 50V 20% NP VERT T/A 1 0 6802-0 .47UF 50V AXIAL CER T/R 474 1 0 6804-6 .1UF 50V AXIAL CER T/R 104 6 0 7444-0 LM393 DUAL COMPARATOR 1 0 7662-7 MAC218A6 8AMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 0 7664-3 1N747A 3.6V 5% ZENER .5W 2 0	R953
10266-2731 27. KOHM .25W 5 CF T/R 1 F 10266-4712 470, 0.50W, 5%, CF 1 F 10266-5131 51. KOHM .25W 5 CF25 T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER, 1N4004 SILICON T/ 1 D 3181-2 DIODE, 1N4148 T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 7444-0 LM393 DUAL COMPARATOR 1 U 7558-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7839-8 1N747A 3.6V 5% ZENER .5W 2 D 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/	R932, R935, R952
10266-4712 470, 0.50W, 5%, CF 1 F 10266-5131 51. KOHM .25W 5 CF25 T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER, 1N4004 SILICON T/ 1 D 3181-2 DIODE, 1N4148 T/R 2 D 3533-4 DIODE, 1N966B 16V ZENER T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 7444-0 LM393 DUAL COMPARATOR 1 U 7558-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 854-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9895-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R <td>R939, R940</td>	R939, R940
10266-5131 51. KOHM .25W 5 CF25 T/R 1 F 10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER, 1N4004 SILICON T/ 1 D 3181-2 DIODE, 1N4148 T/R 2 D 3533-4 DIODE, 1N966B 16V ZENER T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R	7951
10266-5612 560. OHM .5W 5% CF T/R 1 F 2851-1 RECTIFIER. 1N4004 SILICON T/ 1 D 3181-2 DIODE. 1N4148 T/R 2 D 3533-4 DIODE. 1N966B 16V ZENER T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 7662-7 MC33079P QUAD LOW NOISE OP A 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	7961
2851-1 RECTIFIER. 1N4004 SILICON T/ 1 D 3181-2 DIODE. 1N4148 T/R 2 D 3533-4 DIODE. 1N966B 16V ZENER T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 7558-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	7950
3181-2 DIODE, 1N4148 T/R 2 D 3533-4 DIODE, 1N966B 16V ZENER T/R 2 D 3625-8 2N4125 30V PNP T/R 5 C 5311-3 22UF 50V 20% NP VERT T/A 1 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 C 7558-7 MC33079P QUAD LOW NOISE OP A 1 C 7662-7 MAC218A6 8AMP 400V TRIAC 1 C 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	R960
3533-4 DIODE, 1N966B 16V ZENER T/R 2 DIODE, 1N966B 16V ZENER T/R 1 C 5311-3 22UF 50V 20% NP VERT T/A 1 C C 0 C 6802-0 .47UF 50V AXIAL CER T/R 474 1 C C C C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C C C C 7444-0 LM393 DUAL COMPARATOR 1 U C C C C 7444-0 LM393 DUAL COMPARATOR 1 U C C C C 7662-7 MC30079P QUAD LOW NOISE OP A 1 U C C C C 7664-3 MOC3031 ZERO OPTO TRIAC 1 U C D C D 8569-8 1N747A 3.6V 5% ZENER .5W 2 D D D D D 85	D934
3625-8 2N4125 30V PNP T/R 5 5311-3 22UF 50V 20% NP VERT T/A 1 6802-0 .47UF 50V AXIAL CER T/R 474 1 6804-6 .1UF 50V AXIAL CER T/R 104 6 7444-0 LM393 DUAL COMPARATOR 1 7558-7 MC33079P QUAD LOW NOISE OP A 1 7662-7 MAC218A6 8AMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 0 7873-0 2POS .1 CENTER MTA HEADER TI 2 0 8554-5 .22UF 250V 10% POLYESTER 1 0 8894-5 1UF 50V VERT 10% NP ELECT T/ 1 0 9592-4 .01 250VAC UL/CSA 20% FILM 1 0 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 0	D930, D931
5311-3 22UF 50V 20% NP VERT T/A 1 0 6802-0 .47UF 50V AXIAL CER T/R 474 1 0 6804-6 .1UF 50V AXIAL CER T/R 104 6 0 7444-0 LM393 DUAL COMPARATOR 1 0 7558-7 MC33079P QUAD LOW NOISE OP A 1 0 7662-7 MAC218A6 8AMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 0 7873-0 2POS .1 CENTER MTA HEADER TI 2 0 8369-8 1N747A 3.6V 5% ZENER .5W 2 0 8554-5 .22UF 250V 10% POLYESTER 1 0 9592-4 .01 250VAC UL/CSA 20% FILM 1 0 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 0 9930-6 11.8 OHM 3W 5% WW T/R 2 R	D935, D936
6802-0 .47UF 50V AXIAL CER T/R 474 1 C 6804-6 .1UF 50V AXIAL CER T/R 104 6 C 7444-0 LM393 DUAL COMPARATOR 1 U 7558-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 U 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	<u>1930, Q932, Q933, Q934, Q935,</u>
6804-6 .1UF 50V AXIAL CER T/R 104 6 0 7444-0 LM393 DUAL COMPARATOR 1 0 7558-7 MC33079P QUAD LOW NOISE OP A 1 0 7662-7 MAC218A6 BAMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 0 7873-0 2POS .1 CENTER MTA HEADER TI 2 0 8369-8 1N747A 3.6V 5% ZENER .5W 2 0 8554-5 .22UF 250V 10% POLYESTER 1 0 9592-4 .01 250V AC UL/CSA 20% FILM 1 0 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 0 9930-6 11.8 OHM 3W 5% WW T/R 2 R	2935
7444-0 LM393 DUAL COMPARATOR 1 L 7558-7 MC33079P QUAD LOW NOISE OP A 1 L 7662-7 MAC218A6 8AMP 400V TRIAC 1 L 7664-3 MOC3031 ZERO OPTO TRIAC 1 L 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	2939
7444-0 LM393 DUAL COMPARATOR 1 L 7558-7 MC33079P QUAD LOW NOISE OP A 1 L 7662-7 MAC218A6 8AMP 400V TRIAC 1 L 7664-3 MOC3031 ZERO OPTO TRIAC 1 L 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	C933, C934, C936, C937, C941,
7444-0 LM393 DUAL COMPARATOR 1 L 7558-7 MC33079P QUAD LOW NOISE OP A 1 L 7662-7 MAC218A6 8AMP 400V TRIAC 1 L 7664-3 MOC3031 ZERO OPTO TRIAC 1 L 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	C942
7558-7 MC33079P QUAD LOW NOISE OP A 1 U 7662-7 MAC218A6 8AMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 U 7873-0 2POS .1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 9894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	J931
7662-7 MAC218A6 8AMP 400V TRIAC 1 0 7664-3 MOC3031 ZERO OPTO TRIAC 1 0 7873-0 2POS .1 CENTER MTA HEADER TI 2 0 8369-8 1N747A 3.6V 5% ZENER .5W 2 0 8554-5 .22UF 250V 10% POLYESTER 1 0 8894-5 1UF 50V VERT 10% NP ELECT T/ 1 0 9592-4 .01 250VAC UL/CSA 20% FILM 1 0 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 0 9930-6 11.8 OHM 3W 5% WW T/R 2 R	
7664-3 MOC3Ø31 ZERO OPTO TRIAC 1 L 7873-Ø 2POS 1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 25ØV 10% POLYESTER 1 C 8894-5 1UF 5ØV VERT 10% NP ELECT T/ 1 C 9592-4 .01 25ØVAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	2931
7873-0 2POS.1 CENTER MTA HEADER TI 2 J 8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 8894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	J932
8369-8 1N747A 3.6V 5% ZENER .5W 2 D 8554-5 .22UF 250V 10% POLYESTER 1 C 8894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	
8554-5 .22UF 250V 10% POLYESTER 1 C 8894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	1902, 1903
8894-5 1UF 50V VERT 10% NP ELECT T/ 1 C 9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR 1 X 1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	D932, D933
9592-4 .01 250VAC UL/CSA 20% FILM 1 C 9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	2938
9885-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J 9930-6 11.8 OHM 3W 5% WW T/R 2 R	
9930-6 11.8 OHM 3W 5% WW T/R 2 R	0932
	J 90 1
10335-5 RELAY, 30A 24V T90 SEALED CE 2 K	R941, R942
	<930, K931
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	HART, INDIANA 46517 PHONE (219) 294-8
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REF DES	C.P.N.	DESCRIPTION	MAP LOC.
1	102824-1	PWB, CT10A CONTROL, ,	
2932	C 9592-4	.01 250VAC UL/CSA 20% FILM	DЗ
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 3
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
2935	C 5311-3	22UF 50V 20% NP VERT T/A	B 2
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
2937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
2938	C 8554-5	.22UF 250V 10% POLYESTER	C 1
2939	C 6802-0	.47UF 50V AXIAL CER T/R 474	В 3
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	В 5
0590	C 3181-2	DIODE, 1N4148 T/R	В 3
0931	C 3181-2	DIODE, 1N4148 T/R	B 4
0932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
2933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
0934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	С 5
0935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
0936	C 3533-4	DIODE, 1N9668 16V ZENER T/R	B 5
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	B 5
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
(930	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 4
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 2
0590	C 3625-8	2N4125 30V PNP T/R	A 1
2931	C 7662-7	MAC218A6 8AMP 400V TRIAC	B 1
2932	C 3625-8	2N4125 30V PNP T/R	A 2
2933	C 3625-8	2N4125 30V PNP T/R	B 4
2934	C 3625-8	2N4125 30V PNP T/R	B 4
2935	C 3625-8	2N4125 30V PNP T/R	B 4
0Eer		12.KOHM .25W 5% CF T/R	B 3
1931	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
1932	A10266-2441	240. KOHM .25W 5% CF T/R	В 3
2933	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
7934	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
7935	A10266-2441	240. KOHM .25W 5% CF T/R	B 4
7936	A10266-1061	10. MOHM .25W 5 CF25 T/R	B 2
7937	A10124-24	WIRE, #24 SOLID BUS	<u>B 2</u>
828	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
7940	A10266-2722	2.7 KOHM .5W 5% CF T/R	<u>A</u> 1
7941	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
7943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
7944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
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REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R945	A10265-10021		A 4
R946	A10265-27411		A 4
R947	A10265-10021		A 4
R948	A10265-10021		A 3
R949	A10265-10031	100. KOHM.25W 1 MF T/R	E A
R950	A10266-5131	51. KOHM .25W 5 CF25 T/R	ВЗ
R951	A10266-2731	27. KOHM .25W 5 CF T/R	В 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 5
R959	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962		DO NOT INSTALL	B 2
R963	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R964	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R965	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021	10. KOHM .25W 1 MF T/R	日 4
R968	A10265-10031		B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	В 3
U931	C 7444-0	LM393 DUAL COMPARATOR	В 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB . 250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D 5
EW	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1	FASTON, TAB . 250 PC MNT	D 1
W7	101031-1	FASTON, TAB . 250 PC MNT	D 3
W8	101031-1	FASTON, TAB . 250 PC MNT	D 1
<u>8</u>	101031-1	FASTON, TAB . 250 PC MNT	D 2
W10	101031-1	FASTON, TAB . 250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB . 250 PC MNT	D 3
W12	101031-1	FASTON, TAB . 250 PC MNT	D 2
W13 Z930	101031-1	FASTON, TAB . 250 PC MNT	D 3
	A10124-24	WIRE, #24 SOLID BUSS	<u> </u>
Z931 Z932	A10124-24 A10124-24	WIRE, #24 SOLID BUSS	D 3
Z933 Z933	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z934	A10124-24	WIRE, #24 SOLID BUSS	D 3
Z934 Z935	A10124-24	WIRE, #24 SOLID BUSS	D 3
2333	A10124-24	WIRE, #24 SOLID BUSS	D 3
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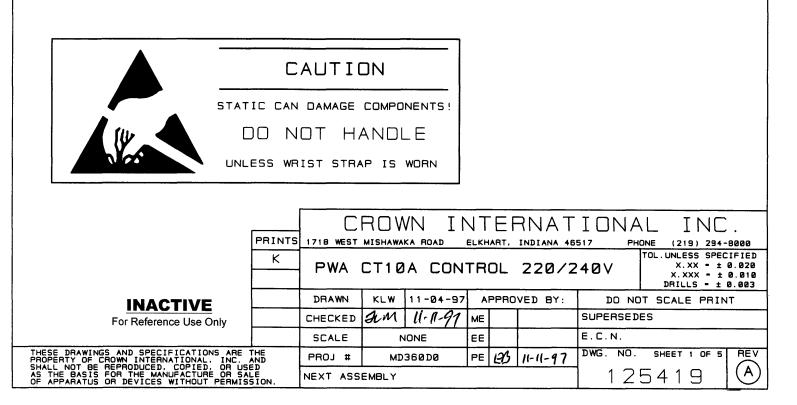
CT10A Control Module 220V/240V 125419 Information On Following Pages Documentation, Component Map, Schematic

		DEV	DESCRIPTION	DA	TE	BY	APPROVA			
E.C.N. ZO	ZUNE HE	ZUNE HEV.			DATE	81	СНК	ME	EE	PE
		A	INITIAL RELEASE	11-0	4-97	KLW	ЯM			Ð

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

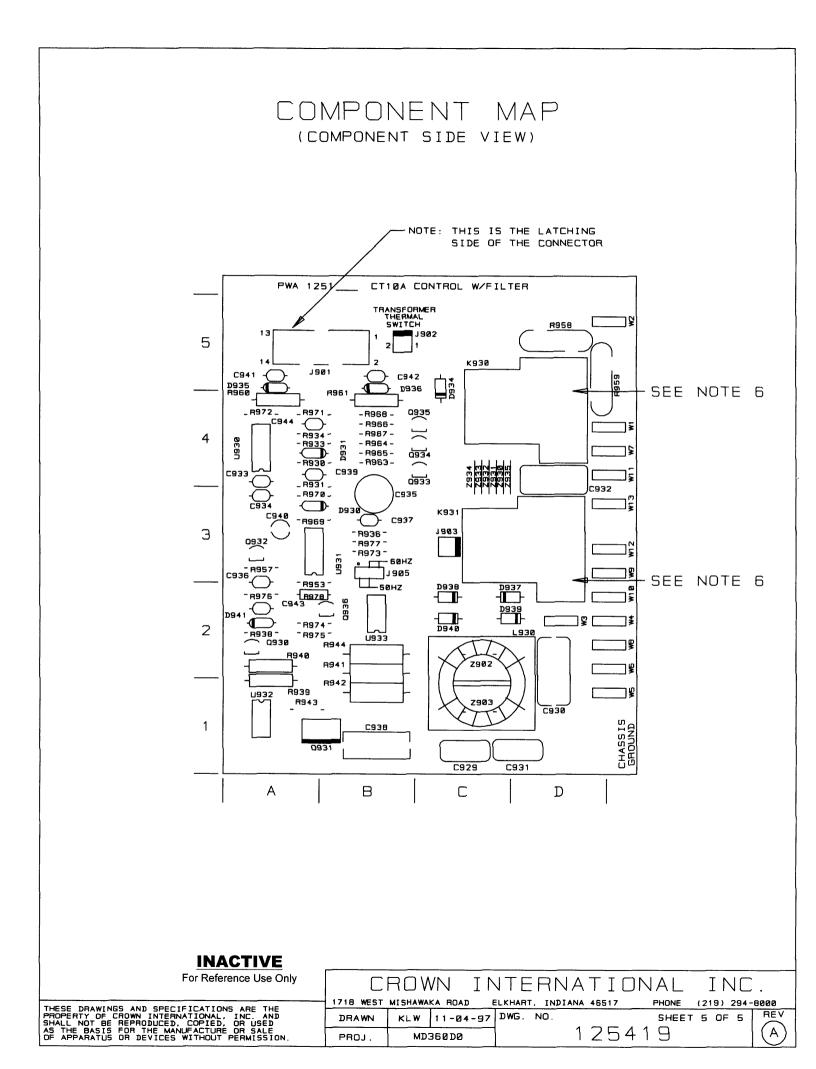
- 1. SCHEMATIC DRAWING NUMBER 125424.
- 2. PRINTED WIRING BOARD PART NUMBER 125415-1.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125419-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.



	PARTS LIS	<u> </u>	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	16"	Z902, Z903, Z930, Z931,
			Z932, Z933, Z934, Z935
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930,R933,R938,R957,R963,
			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974,R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935,D936
C 3549-0	DIODE, ZENER 10V 1N5240B T/R	1	D941
C 3625-8	2N4125 30V PNP T/R	6	Q930,Q932,Q933,Q934,Q935,
			Q936
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	C933,C934,C936,C937,C941,
			C942,C943
C 6812-9	47PF 200V 10% NPO AXL CER	2	C939, C944
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	U931
C 7636-1	MC33078P DUAL LOW NOISE OP A	1	U930
C 7665-0	MOC3011 OPTO TRIAC	1	U932
C 7746-8	3POS SGLROW HDR .025 POST G	1	J905
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8554-5	22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	1	U933
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10325-6	2200.PF 250VAC 20% FILM Y2	2	C929, C931
C10326-4	.1UF 250VAC 20% FILM X2	1	C930
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
100445-1	NTC, INRUSH CURR LIMITER 3A	2	R958, R959
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
			W10,W11,W12,W13
125106-1	MAC9D BA 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1	
······			
	Reference Use Only		ITERNATIONAL INC
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA NOT BE REPRODUCED, HE BASIS FOR THE MANL PARATUS OR DEVICES Y	ICATIONS ARE THE 1718 WEST MISHAWAKA R		LKHART, INDIANA 46517 PHONE (219) 294-
ERTY OF CROWN INTERNA	TIONAL, INC. AND DRAWN KLW 11-	A4-07	DWG. NO. SHEET 2 OF 5

	I	PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C929	C10325-6	2200.PF 250VAC 20% FILM Y2	
C930	C10326-4	.1UF 250VAC 20% FILM X2	
C931	C10325-6	2200.PF 250VAC 20% FILM Y2	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
C933	C 6804-6	. 1UF 50V AXIAL CER T/R 104	
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C935	C 5311-3	22UF 50V 20% NP VERT T/A	
C936	C 6804-6	. 1UF 50V AXIAL CER T/R 104	
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
<u>C938</u>	C 8554-5	. 22UF 250V 10% POLYESTER	
<u>C939</u>	C 6812-9	47PF 200V 10% NPO AXL CER	
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
C941	C 6804-6	. 1UF 50V AXIAL CER T/R 104	
<u>C942</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	
<u>C943</u>	<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	
C944	C 6812-9	47PF 200V 10% NPO AXL CER	
D930	C 3181-2	DIODE, 1N4148 T/R	
D931	<u>C 3181-2</u>	DIODE, 1N4148 T/R	
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	
D937	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
<u>J901</u>	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
<u>1902</u>	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
K930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
K931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
L930		OPEN	
0930	C 3625-8	2N4125 30V PNP T/R	
0931	125106-1	MAC9D BAMP 400V TRIAC	
<u>0932</u> 0933	C 3625-8 C 3625-8	2N4125 30V PNP T/R 2N4125 30V PNP T/R	
Q933 Q934	C 3625-8		
Q934 Q935	C 3625-8	2N4125 30V PNP T/R 2N4125 30V PNP T/R	
Q936	C 3625-8		
4936 R930	A10265-10021	2N4125 30V PNP T/R 10K OHM 0.25W 1% MF T/R	
	A10265-20021		
R931			
R933	A10265-10021 A10265-20021	10K OHM 0.25W 1% MF T/R 20K OHM 0.25W 1% MF T/R	
R934			
R936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
R938	A10265-10021	10K OHM 0.25W 1% MF T/R	
R939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
R940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	
R942	C 9930-6	11.8 OHM 3W 5% WW T/R	I
	For Reference	Use Only CROWN INTERNATIO	
E DRAWINGS / ERTY OF CROW	ND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 DRAWN KLW 11-04-97 DWG. NO.	PHONE (219) 294-6 SHEET 3 OF 5
L NOT BE REP	RODUCED, COPIED, OR	DRAWN KLW 11-04-97 2003. 100. SALE ISSION. PROJ. MD350D0 1254	

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	
R944	125158-1	6.8K OHM 3W 5% MF T/R	
R953	A10266-2051	2M_OHM 0.25W 5% CF T/R	
R957	A10265-10021	10K OHM 0.25W 1% MF T/R	
7958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
R959	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
R960	A10266-5612	560 OHM 0.50W 5% CF T/R	
7961	A10266-4712	470 OHM 0.50W 5% CF	
R963	A10265-10021	10K OHM 0.25W 1% MF T/R	
R964	A10265-10021	10K OHM 0.25W 1% MF T/R	
R965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R966	A10265-10021	10K OHM 0.25W 1% MF T/R	
R967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
7968	A10265-10031	100K OHM 0.25W 1% MF T/R	
7969		10K OHM 0.25W 1% MF T/R	
797Ø	A10265-12121	12.1K OHM 0.25W 1% CF25 T/R	
7971		12.1K OHM 0.25W 1% CF25 T/R	
7972	A10265-10021		
7973	A10266-1241	120K OHM 0.25W 5% CF T/R	
7974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
7975	A10265-10021	10K OHM 0.25W 1% MF T/R	
7976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
7977	A10265-60431	604K OHM 0.25W 1% MF T/R	
R978	A10265-20011	2K OHM 0.25W 1% MF T/R	
1930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
J931	C 7444-0	LM393 DUAL COMPARATOR	
J932	C 7665-0	MOC3011 OPTO TRIAC	
1933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W 1	101031-1	FASTON, TAB .250 PC MNT	
N2	101031-1	FASTON, TAB .250 PC MNT	
NЭ	101031-1	FASTON, TAB .250 PC MNT	
N4	101031-1	FASTON, TAB .250 PC MNT	
<i>N</i> 5	101031-1	FASTON, TAB .250 PC MNT	· · · · · · · · · · · · · · · · · · ·
<i>N</i> 6	101031-1	FASTON, TAB .250 PC MNT	
N7	101031-1	FASTON, TAB .250 PC MNT	
N8	101031-1	FASTON, TAB .250 PC MNT	
N9	101031-1	FASTON, TAB .250 PC MNT	
W1 Ø	101031-1	FASTON, TAB .250 PC MNT	
W1 1	101031-1	FASTON, TAB . 250 PC MNT	
W1 2	101031-1	FASTON, TAB .250 PC MNT	
V1 3	101031-1	FASTON, TAB .250 PC MNT	
2902	A10124-24	WIRE, #24 SOLID BUSS	
Z903	A10124-24	WIRE, #24 SOLID BUSS	
Z930	A10124-24	WIRE, #24 SOLID BUSS	
Z931	A10124-24	WIRE, #24 SOLID BUSS	
2932	A10124-24	WIRE, #24 SOLID BUSS	
2933	A10124-24	WIRE, #24 SOLID BUSS	
2934	A10124-24	WIRE, #24 SOLID BUSS	
Z935	A10124-24	WIRE, #24 SOLID BUSS	
	125415-1	PWB, CT10A CONTROL, ,	
			I
	For Reference Us	CROWN INTERNATIO	
DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN KIW 11-04-97 DWG, NO.	PHONE (219) 294-



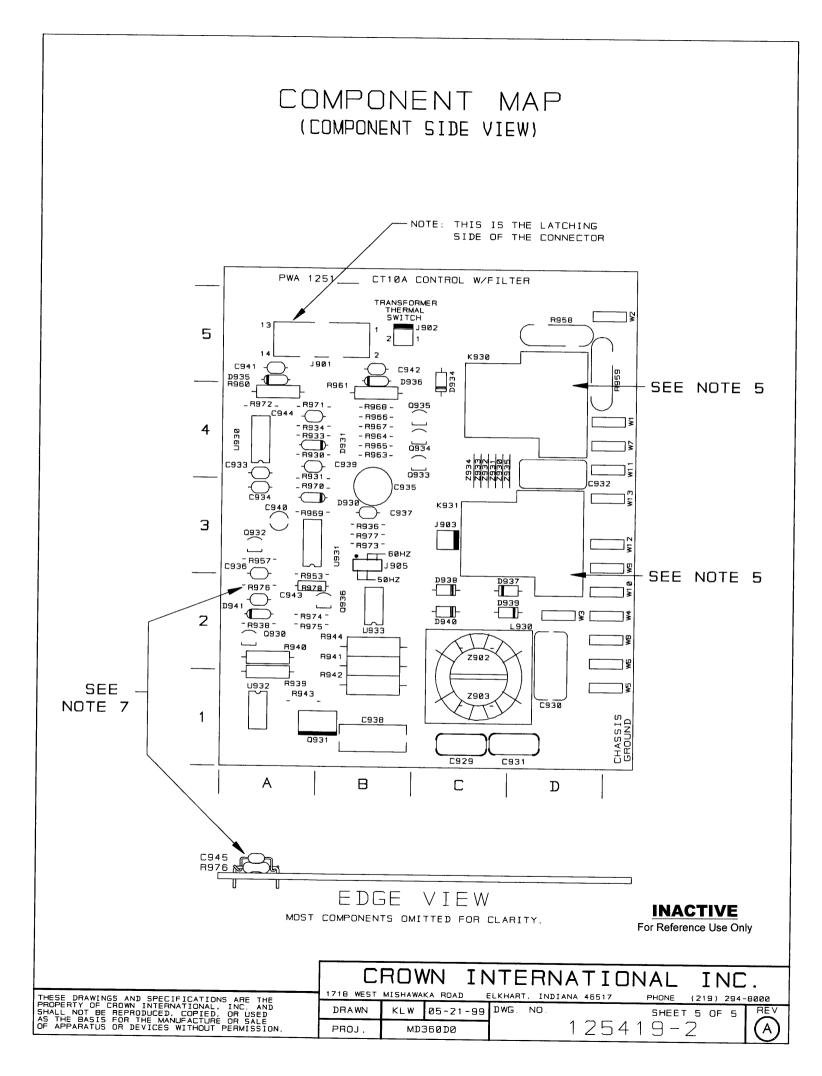
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	99EØ213		A	INITIAL RELEASE FOR PRO	DDUCTION.	05-21-99			
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NLESS OTH	ERWISE	SPE	CIFI	ED, THE FINISHED	PWA SHALL MEE	Г:			
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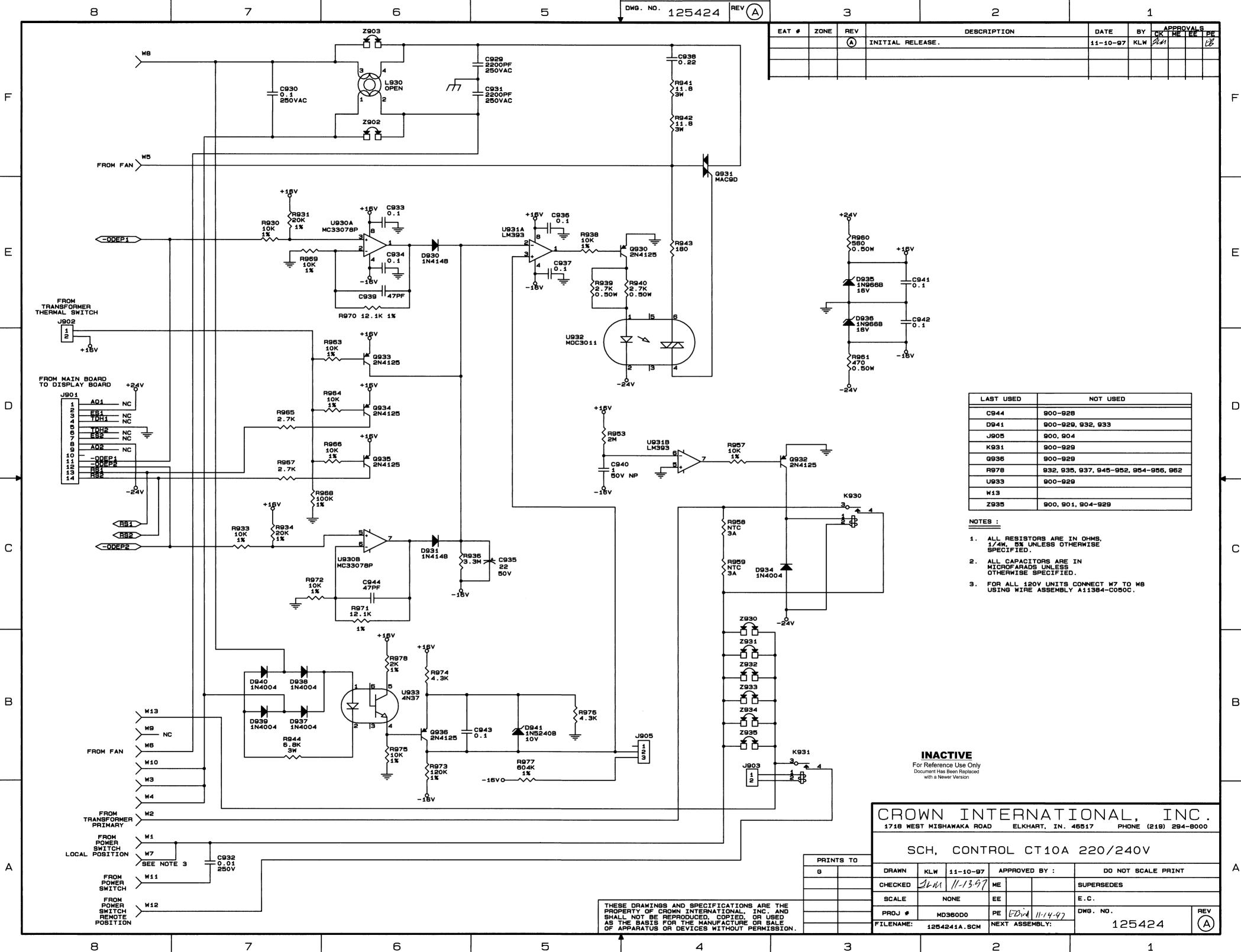
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PROPERTY OF CROWN INTERNATIONAL, INC. A		PROJ #	и MD		PE		5-21-99	DWG. NO.	SHEET 1 OF 5	REV
SHALL NOT BE REPRODUCED, COPIED, OR USE As the basis for the manufacture or sal of apparatus or devices without permiss	Ē	NEXT ASS	EMBLY					125	419-2	

	PARTS LIS	т	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	16"	Z902, Z903, Z930, Z931,
A10124 21			Z932, Z933, Z934, Z935
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,
A10203 10021			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10205-10031	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20011	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-20021	604K OHM 0.25W 1% MF T/R	1	R977
A10265-60431			R973
A10266-1241	120K OHM 0.25W 5% CF T/R	<u> </u>	R943
A10266-1811	180 OHM 0.25W 5% CF25 T/R		
A10266-2051	2M OHM Ø.25W 5% CF T/R		R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R		R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974, R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
C 3549-0	DIODE, ZENER 10V 1N5240B T/R	1	D941
C 3625-8	2N4125 30V PNP T/R	6	Q930, Q932, Q933, Q934, Q935,
			Q936
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	C933, C934, C936, C937, C941,
			C942, C943
C 6806-1	.01UF 100V AXIAL CER T/R	1	C945
C 6812-9	47PF 200V 10% NPO AXL CER	2	C939, C944
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7636-1	MC33078P DUAL LOW NOISE OP A	1	U930
C 7665-0	MOC3011 OPTO TRIAC	1	U932
C 7746-8	3POS SGLROW HDR . 025 POST G	1	J905
C 7873-0	2POS 1 CENTER MTA HEADER TI	2	J902, J903
C 8554-5	. 22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/		C940
	4N37 PHOTOXSISTOR OPTO ISOLR	-1	U933
C 9255-8	.01 250VAC UL/CSA 20% FILM		C932
C 9592-4	14PIN DUAL ROW HDR .1 X.1 CT		J901
C 9885-2		2	R941, R942
C 9930-6	11.8 OHM 3W 5% WW T/R	2	C929, C931
C10325-6	2200. PF 250VAC 20% FILM Y2		
C10326-4	.1UF 250VAC 20% FILM X2		
C10335-5	RELAY, 30A 24V T90 SEALED CE		K930, K931
100445-1	NTC, INRUSH CURR LIMITER 3A	2	R958, R959
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
		4	W10, W11, W12, W13
125106-1	MAC9D 8A 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1	
IN			I
			NTERNATIONAL INC.
			ELKHART, INDIANA 46517 PHONE (219) 294-80
SE DRAWINGS AND SPECI DPERTY OF CROWN INTERN NLL NOT BE REPRODUCED. The BASIS FOR THE MAN APPARATUS OR DEVICES	FICATIONS ARE THE DRAWN KLW 05		DWG. NO. SHEET 2 OF 5

REF DES	C.P.N.	PARTS LIST	MAP LOC.
2929	C10325-6	2200.PF 250VAC 20% FILM Y2	
2930	C10326-4	.1UF 250VAC 20% FILM X2	
2931	C10325-6	2200.PF 250VAC 20% FILM Y2	
:932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2935	C 5311-3	22UF 50V 20% NP VERT T/A	
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	
.937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2938	C 8554-5	. 22UF 250V 10% POLYESTER	
2939	C 6812-9	47PF 200V 10% NPO AXL CER	
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2943	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2944	C 6812-9	47PF 200V 10% NPO AXL CER	
2945	C 6806-1	.01UF 100V AXIAL CER T/R	
0930	C 3181-2	DIODE, 1N4148 T/R	
0931	C 3181-2	DIODE, 1N4148 T/R	
0934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
936	C 3533-4	DIODE, 1N9668 16V ZENER T/R	
937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
(930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
(931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
930		OPEN	
2930	C 3625-8	2N4125 30V PNP T/R	
2931	125106-1	MAC9D BAMP 400V TRIAC	
1932	C 3625-8	2N4125 30V PNP T/R	
2933	C 3625-8	2N4125 30V PNP T/R	
2934	C 3625-8	2N4125 30V PNP T/R	
1935	C 3625-8	2N4125 30V PNP T/R	
1936	C 3625-8	2N4125 30V PNP T/R	
930	A10265-10021	10K OHM 0.25W 1% MF T/R	
7931	A10265-20021	20K OHM 0.25W 1% MF T/R	
1933	A10265-10021	10K OHM 0.25W 1% MF T/R	
7934	A10265-20021	20K OHM 0.25W 1% MF T/R	
1936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
1938	A10265-10021	10K OHM 0.25W 1% MF T/R	
1939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	
3942	C 9930-6	11.8 OHM 3W 5% WW T/R	
	INACT		
	For Reference		
DRAWINGS	AND SPECIFICATIONS AR WAN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 48517	PHONE (219) 294 SHEET 3 OF 5

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	
3944	125158-1	6.8K OHM 3W 5% MF T/R	
3953	A10266-2051	2M OHM 0.25W 5% CF T/R	
1957		10K OHM 0.25W 1% MF T/R	
1958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
1959	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
R960	A10266-5612	560 OHM 0.50W 5% CF T/R	
R961	A10266-4712	470 OHM 0.50W 5% CF	
1963	A10265-10021	10K OHM 0.25W 1% MF T/R	
3964	A10265-10021	10K OHM 0.25W 1% MF T/R	
1965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R966	A10265-10021	10K OHM 0.25W 1% MF T/R	
R967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
8968	A10265-10031	100K OHM 0.25W 1% MF T/R	
969	A10265-10021	10K OHM 0.25W 1% MF T/R	
1970		12.1K OHM 0.25W 1% CF25 T/R	
7971	A10265-12121	12.1K OHM 0.25W 1% CF25 T/R	
3972	A10265-10021	10K OHM 0.25W 1% MF T/R	
1973	A10266-1241	120K OHM 0.25W 5% CF T/R	
R974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R975	A10265-10021	10K OHM 0.25W 1% MF T/R	
R976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R977	A10265-60431	604K OHM 0.25W 1% MF T/R	
R978	A10265-20011	2K OHM 0.25W 1% MF T/R	
1930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
J931	C 7444-0	LM393 DUAL COMPARATOR	
J932 <u></u>	C 7665-0	MOC3011 OPTO TRIAC	
1933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W1	101031-1	FASTON, TAB .250 PC MNT	
N2	101031-1	FASTON, TAB .250 PC MNT	
N3	101031-1	FASTON, TAB .250 PC MNT	
N4	101031-1	FASTON, TAB .250 PC MNT	
<i>w</i> 5	101031-1	FASTON, TAB .250 PC MNT	
NG	101031-1	FASTON, TAB .250 PC MNT	
N7	101031-1	FASTON, TAB .250 PC MNT	
N8	101031-1	FASTON, TAB .250 PC MNT	
9	101031-1	FASTON, TAB .250 PC MNT	
W10	101031-1	FASTON, TAB .250 PC MNT	
W1 1	101031-1	FASTON, TAB .250 PC MNT	
N12	101031-1	FASTON, TAB .250 PC MNT	
V1 3	101031-1	FASTON, TAB .250 PC MNT	
2902	A10124-24	WIRE, #24 SOLID BUSS	
2903	A10124-24	WIRE, #24 SOLID BUSS	
2930	A10124-24	WIRE, #24 SOLID BUSS	
2931	A10124-24	WIRE, #24 SOLID BUSS	
2932	A10124-24	WIRE, #24 SOLID BUSS	
2933	A10124-24	WIRE, #24 SOLID BUSS	
Z934	A10124-24	WIRE, #24 SOLID BUSS	
Z935	A10124-24	WIRE, #24 SOLID BUSS	
	125415-1	PWB, CT10A CONTROL, ,	
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	INACTIVI For Reference Use		NAL INC
		THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294
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CT1610 Control Module 100V Information On Following Pages Documentation, Component Map, Schematic

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REVISION		A	TITLE: P	WA, C	T1610	CONT	ROL	PRINT	5	к
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PROJ.	D	360	FIRST M	ADE FOR:	CT16	610		DRAWN		KLW
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PROJ.		D360	FIRST MAI	DE FOR: CT1610		DRAWN	KLW
		REVI	SION CON	TROL INFORMATI	ON		
NAN		1	SHEET REV.				
TOM SZEF	RENCSE	1-7	A	INITIAL RELEASE.			
CROWN INTER	NATIONAL I	NC., 1718 W. N	IISHAWAKA RD.	ELKHART IN. 46517	PHONE: 2	19-294-8000	

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 101528.
- 2. PWB PART NUMBER 100283-2.
- 3. PWA PART NUMBER 101530-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS. BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

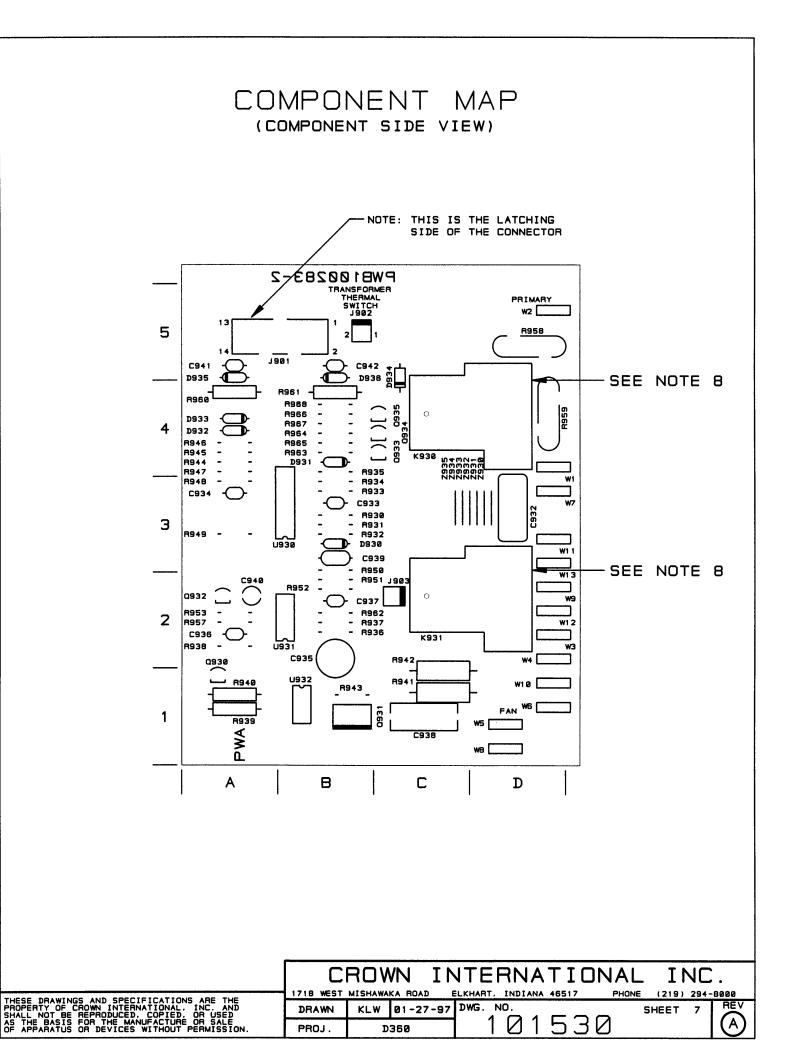


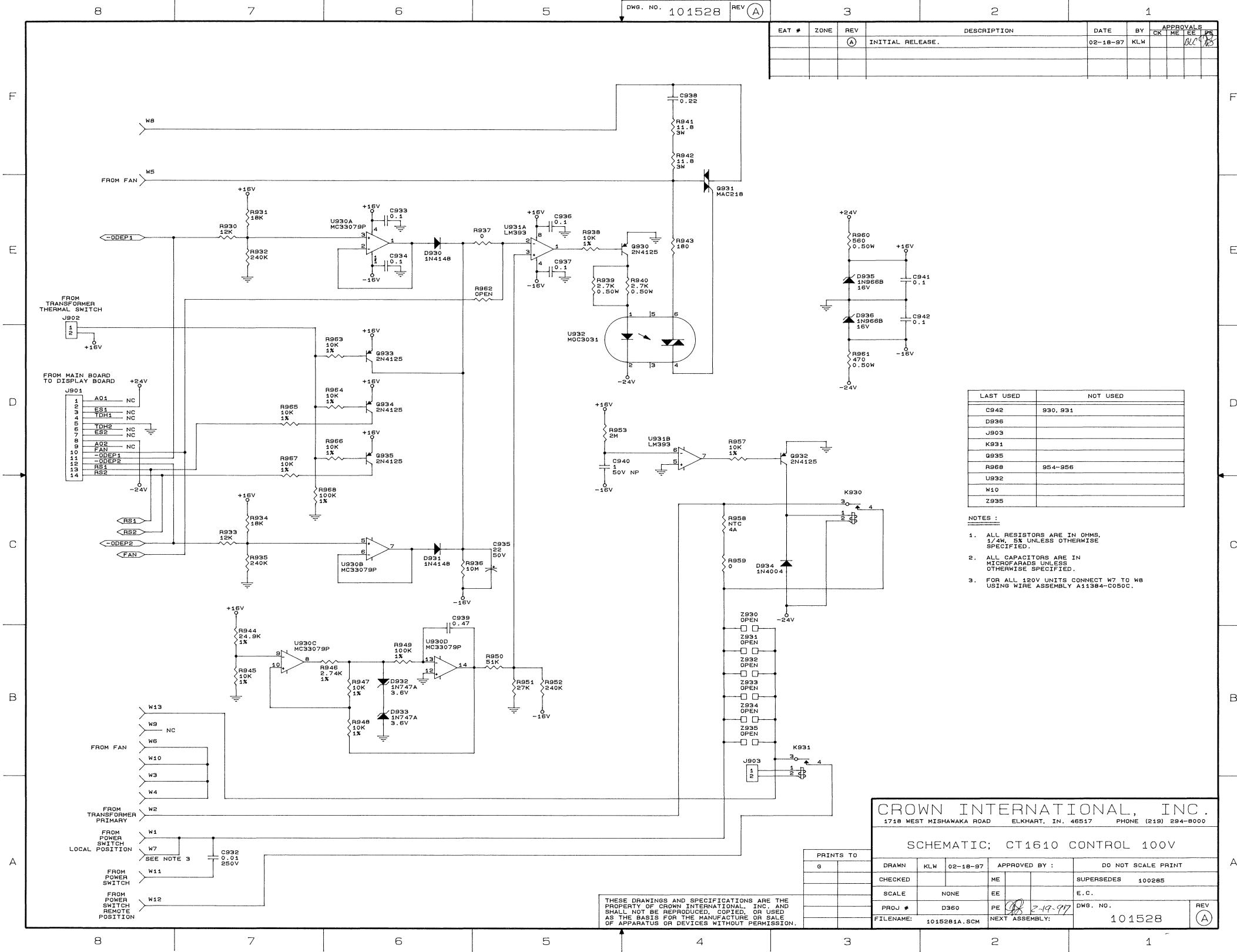
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THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED, COPIED, OR USED	DRAWN	KLW 01-27-97	ELKHART, INDIANA 46517 PHONE	SHEET 3 REV
AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	D360	1 101530	CONT. ON A

	PARTS LIS	Т	
C. P. N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
100283-2	PWB, CT10 CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1, W10, W2, W3, W4, W5, W6, W7,
			W8, W9, W11, W12, W13
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958
A10124-24	WIRE, #24 SOLID BUS	4 ''	R937,R959
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938,R945,R947,R948,R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM .25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930,R933
A10266-1811	180. OHM .25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM .25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM .25W 5% CF T/R	3	R932,R935,R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM .25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM .25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/	1	D934
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
C 3625-8	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	C939
<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	6	C933,C934,C936,C937,C941,
			C942
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
C 7662-7	MAC218A6 8AMP 400V TRIAC	1	Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC	1	U932
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941,R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930,K931
	CROWN	11 1	NTERNATIONAL INC
	1718 WEST MISHAWAKA (ELKHART, INDIANA 46517 PHONE (219) 294-8
E DRAWINGS AND SPECI PERTY OF CROWN INTERN L NOT BE REPRODUCED,	FICATIONS ARE THE DRAWN KLW 01	-27-97	

REF DES	C.P.N.	PARTS LIST	MAP LOC.
1	100283-2	PWB, CT10 CONTROL, , ,	
2932	C 9592-4	.01 250VAC UL/CSA 20% FILM	DЗ
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	в 3
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 3
2935	C 5311-3	22UF 50V 20% NP VERT T/A	B 2
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
2937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
2938	C 8554-5	.22UF 250V 10% POLYESTER	
2939	C 6802-0	.47UF 50V AXIAL CER T/R 474	83
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 5
D930	C 3181-2	DIODE, 1N4148 T/R	В 3
0931	C 3181-2	DIODE, 1N4148 T/R	В 4
0932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
0933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
0934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 5
0935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
0936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	B 5
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	В 5
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	в 5
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
(930	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 4
(931	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 2
1930	C 3625-8	2N4125 30V PNP T/R	A 1
1931	C 7662-7	MAC218A6 BAMP 400V TRIAC	B 1
1932	C 3625-8	2N4125 30V PNP T/R	A 2
1933	C 3625-8	2N4125 30V PNP T/R	В 4
2934	C 3625-8	2N4125 30V PNP T/R	B 4
1935	C 3625-8	2N4125 30V PNP T/R	B 4
930	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
8931	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
1932	A10266-2441	240. KOHM .25W 5% CF T/R	83
EEPF	A10266-1231	12.KOHM .25W 5% CF T/R	83
934	A10266-1831	18. KOHM . 25W 5% CF T/R	83
1935	A10266-2441	240. KOHM .25W 5% CF T/R	B 4
1936	A10266-1061	10. MOHM .25W 5 CF25 T/R	82
1937	A10124-24	WIRE, #24 SOLID BUS	B 2
938	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
1939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
R940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
3941	C_9930-6	11.8 OHM 3W 5% WW T/R	C 1
R942	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
1943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
1944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
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	ND SPECIFICATIONS AR	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 DRAWN KLW 01-27-97 DWG. NO.	AL INC PHONE (219) 294-

REE DES	C.P.N.	DESCRIPTION	MAP LOC.
R945	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
R946	A10265-27411	2,74KOHM ,25W 1% MF T/R	A 4
R947	A10265-10021	10. KOHM . 25W 1 MF T/R	A 4
R948	A10265-10021	10. KOHM.25W 1 MF T/R	АЗ
R949	A10265-10031	100. KOHM . 25W 1 MF T/R	АЗ
R950	A10266-5131	51. KOHM .25W 5 CF25 T/R	В 3
R951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	<u>B4</u>
R962		DO NOT INSTALL	<u>B 2</u>
R963	A10265-10021	10. KOHM . 25W 1 MF T/R	<u>B4</u>
R964	A10265-10021	10. KOHM . 25W 1 MF T/R	<u>B 4</u>
R965	A10265~10021	10. KOHM .25W 1 MF T/R	<u>B4</u>
R966	A10265~10021	10. KOHM .25W 1 MF T/R	<u>B 4</u>
R967	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R968	A10265~10031		B 4
0930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	83
U931	C 7444-0	LM393 DUAL COMPARATOR	82
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	<u>B 1</u>
W1	101031-1	FASTON, TAB . 250 PC MNT	D 4
W2	101031-1	FASTON, TAB . 250 PC MNT	D 5
<u>EW</u>	101031-1	FASTON, TAB . 250 PC MNT	D 2
W4	101031-1	FASTON, TAB 250 PC MNT	D 2 D 1
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1 101031-1	FASTON, TAB .250 PC MNT FASTON, TAB .250 PC MNT	D 3
W8	101031-1	FASTON, TAB 250 PC MNT	D 1
WB	101031-1	FASTON, TAB . 250 PC MNT	D 2
w10	101031-1	FASTON, TAB . 250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB . 250 PC MNT	DЗ
W1 2	101031-1	FASTON, TAB . 250 PC MNT	D 2
W13	101031-1	FASTON, TAB . 250 PC MNT	DЗ
Z930		NOT USED	D3
Z931		NOT USED	DЗ
Z932		NOT USED	DЗ
Z933		NOT USED	DЗ
Z934		NOT USED	DЗ
Z935		NOT USED	DЭ
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CT1610 Control Module 120V Information On Following Pages Documentation, Component Map, Schematic

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REVISION		A	TITLE: P	NA, CT	1610	CONT	ROL	PRINT	s	к
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	AS TH	E BASIS FOR THE PARATUS OR DEV	E MANUFACTU	RE OR SALE		MFG		42		
CROWN INTER	NATIONAL IN	NC., 1718 W. MI	SHAWAKA RD.	ELKHART			PHONE: 21	9-294-8	000	

CROV	VN I	NTERN	NATIO	DNAL	101531
REVISION		A	TITLE: PW	A, CT1610 CONTROL	PRINTS K
MADE BY	том	SZERENCSE		120V	SHEET NO. 2
DATE	Ø 1	-27-97			CONT.ON SH 3
PROJ.		D360	FIRST MAI	DE FOR: CT1610	DRAWN KLW
		REVIS	SION CON	TROL INFORMATION	
NAM	ИЕ	SHEET NO. S	HEET REV.	ACTION	
TOM SZE	RENCSE	1 - 7	A	INITIAL RELEASE.	
I I					

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 101529.
- 2. PWB PART NUMBER 100283-2.
- 3. PWA PART NUMBER 101531-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

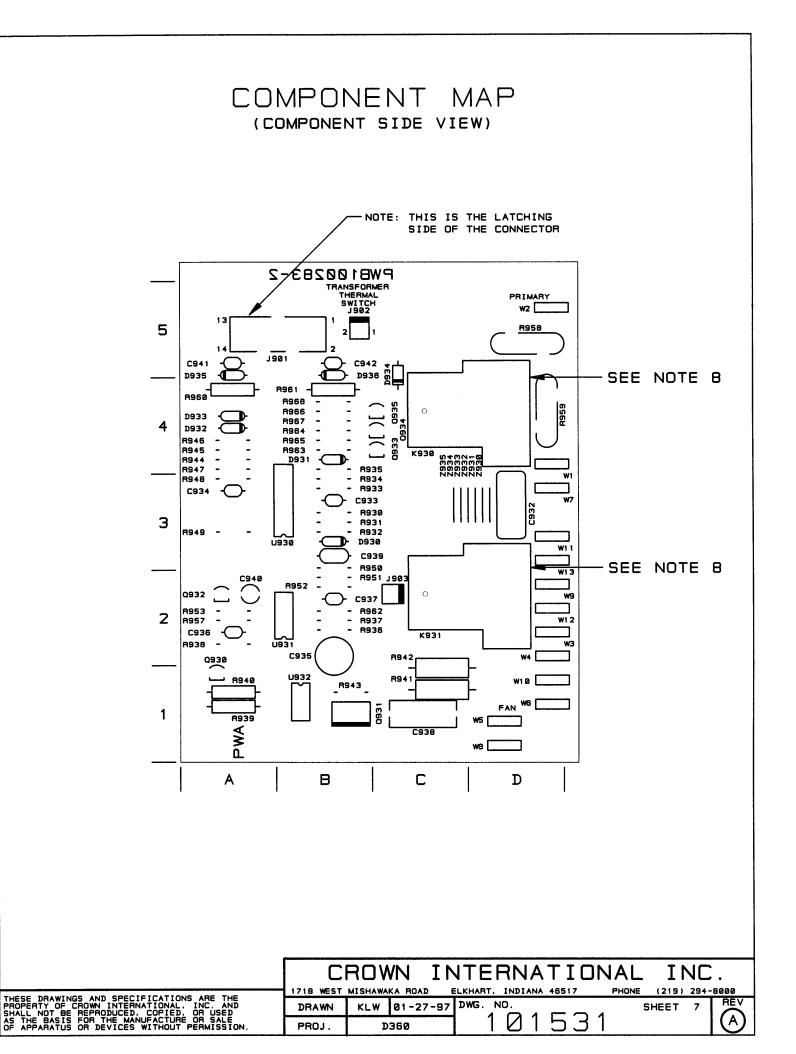


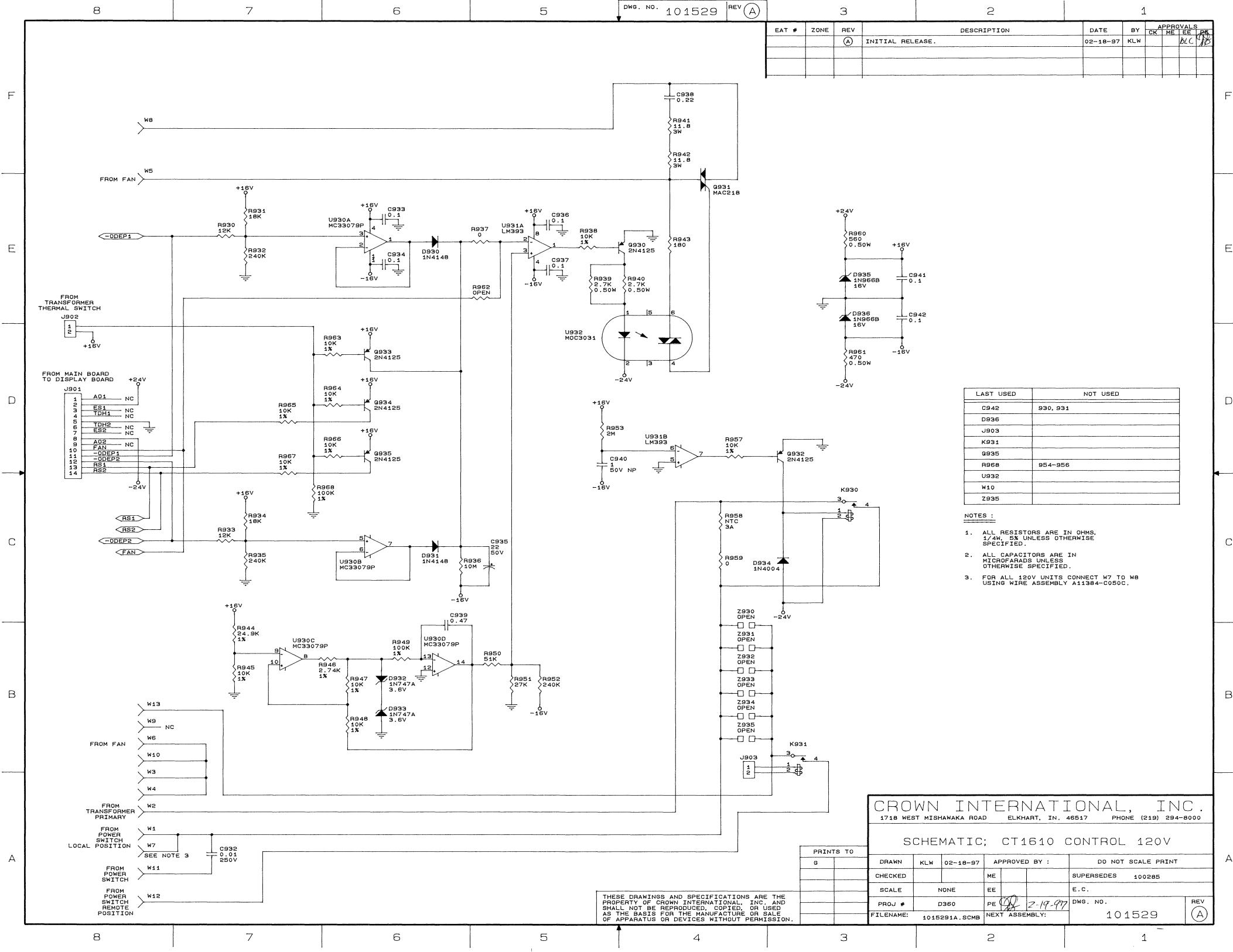
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 DWG. NO.
 SHEET 3 CONT. ON SHEET 4
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	PARTS LIS		
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
100283-2	PWB, CT10 CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1,W10,W2,W3,W4,W5,W6,W7,
			W8, W9, W11, W12, W13
100445-1	NTC, INRUSH CURR LIMITER 3A	1	R958
A10124-24	WIRE, #24 SOLID BUS	4 ''	R937,R959
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938, R945, R947, R948, R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM . 25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM .25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM . 25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM . 25W 5% CF T/R	3	R932, R935, R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM . 25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM . 25W 5 CF25 T/R		R950
A10266-5612	560. OHM .5W 5% CF T/R		R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/		D934
	DIODE, 1N4148 T/R	2	D930, D931
<u>C 3181-2</u>			
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R		D935, D936
C 3625-8	2N4125 30V PNP T/R	5	Q930,Q932,Q933,Q934,Q935,
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474		C939
C 6804-6	.1UF 50V AXIAL CER T/R 104	6	C933, C934, C936, C937, C941,
		<u> </u>	C942
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	U931
C 7558-7	MC33079P QUAD LOW NOISE OP A	1	U930
C 7662-7	MAC218A6 BAMP 400V TRIAC	1	Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC	1 1	U932
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	. 22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
<u>C 9885-2</u>	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
<u>C 9930-6</u>	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930,K931
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<u></u>		<u> </u>	•
			NTERNATIONAL INC
E DRAWINGS AND SPECI ERTY OF CROWN INTERN L NOT BE REPRODUCED, HE BASIS FOR THE MAN PPARATUS OR DEVICES	FICATIONS ARE THE		ELKHART, INDIANA 46517 PHONE (219) 294-E DWG. NO. SHEET 4
ERIT OF LHOWN INTERN	ATIONAL, INC. AND DRAWN KLW 01	-27-97	101531 SHEET 4 CONT. ON SHEET 5

REF DES			MAP LOC.
1	100283-2	PWB, CT10 CONTROL, , ,	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	D 3
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>B3</u>
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104 22UF 50V 20% NP VERT T/A	A 3 B 2
C935	C 5311-3	.1UF 50V AXIAL CER T/R 104	A 2
C936	C 6804-6 C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C937	C 8554-5	. 22UF 250V 10% POLYESTER	C 1
C938	C 6802-0	.47UF 50V AXIAL CER T/R 474	ВЗ
	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
C940	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C941 C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 5
	C 3181-2	DIODE, 1N4148 T/R	B 3
D930	C 3181-2		B 4
D931		DIODE, 1N4148 T/R 1N747A 3.6V 5% ZENER .5W	A 4
D932	C 8369-8		
D933	C 8369-8 C 2851-1	1N747A 3.6V 5% ZENER .5W RECTIFIER, 1N4004 SILICON T/R	A 4 C 5
D934 D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
		DIODE, INSEE ISV ZENER I/R	B 5
D936	C 3533-4	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
J901	C 9885-2		85
1902	C 7873-0	2POS 1 CENTER MTA HEADER TIN	
1903	C 7873-0 C10335-5	2POS .1 CENTER MTA HEADER TIN RELAY, 30A 24V T90 SEALED CE	
K930			
K931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
0930	C 3625-8 C 7662-7	2N4125 30V PNP T/R MAC218A6 8AMP 400V TRIAC	A 1 B 1
Q931 Q932	C 3625-8	2N4125 30V PNP T/R	A 2
0933	C 3625-8	2N4125 30V PNP T/R	B 4
0934	C 3625-8	2N4125 30V PNP T/R	B 4
0935	C 3625-8	2N4125 30V PNP T/R	B 4
R930	A10266-1231	12.KOHM .25W 5% CF T/R	B 3
R931	A10266-1831	18. KOHM . 25W 5% CF T/R	83
R932	A10266-2441	240. KOHM . 25W 5% CF T/R	83
R933	A10266-1231	12.KOHM . 25W 5% CF T/R	83
8934	A10266-1831	18. KOHM . 25W 5% CF T/R	83
R935	A10266-2441	240. KOHM . 25W 5% CF T/R	B 4
R936	A10266-1061	10. MOHM . 25W 5 CF25 T/R	B 2
R937	A10124-24	WIRE, #24 SOLID BUS	B 2
R938	A10265-10021	10. KOHM . 25W 1 MF T/R	A 2
R939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
R940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1 A 1
R941	C 9930-6	11.8 OHM 3W 5% WW T/R	
R942	C 9930-6	11.8 OHM 3W 5% WW T/R	
R943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
R944	A10265-24921	24.9 KOHM . 25W 1% MF T/R	A 4
11344	A10203 24321		
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		L	L
		CROWN INTERNATION	AL INC
		1718 WEST MISHAWAKA BOAD ELKHART, INDIANA 46517	PHONE (219) 294-6
E DRAWINGS	AND SPECIFICATIONS AR WA INTERNATIONAL. INC PRODUCED, COPIED, OR 7 THE MANUFACTURE OR DEVICES WITHOUT PERM	DRAWN KLW 01-27-97 DWG. NO.	SHEET 5

		PARTS LIST	T
	SC.P.N.	DESCRIPTION	MAP LOC.
R945	A10265-10021		A 4
R946	A10265-27411		A 4
R947	A10265-10021		A 4
R948	A10265-10021	10. KOHM .25W 1 MF T/R	A 3
R949	A10265-10031		A 3
R950	A10266-5131	51. KOHM .25W 5 CF25 T/R	B 3
R951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962		DO NOT INSTALL	<u>B 2</u>
R963	A10265-10021		<u>B4</u>
R964	A10265-10021		B 4
R965	A10265-10021		B 4
R966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021		B 4
R968	A10265-10031		B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	В 3
U931	C 7444-0	LM393 DUAL COMPARATOR	B 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D 5
W3	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB . 250 PC MNT	D 1
W6	101031-1	FASTON, TAB . 250 PC MNT	D 1
W7	101031-1	FASTON, TAB . 250 PC MNT	D 3
WB	101031-1	FASTON, TAB .250 PC MNT	D 1
<u>8</u>	101031-1	FASTON, TAB . 250 PC MNT	D 2
W10	101031-1	FASTON, TAB . 250 PC MNT	<u>D 1</u>
<u>W1 1</u>	101031-1	FASTON, TAB . 250 PC MNT	D 3
W12	101031-1	FASTON, TAB . 250 PC MNT	D 2
W13	101031-1	FASTON, TAB . 250 PC MNT	D 3
<u>Z930</u>		NOT USED	D 3
Z931		NOT USED	D 3
Z932		NOT USED	D 3
Z933		NOT USED	DЗ
Z934		NOT USED	D 3
Z935		NOT USED	DЗ
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		CROWN INTERNATION	
E DRAWING	S AND SPECIFICATIONS AR ROWN INTERNATIONAL, INC REPRODUCED, COPIED, OR FOR THE MANUFACTURE OR OR DEVICES WITHOUT PERM	IT IE THE IT IE WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-80 SHEET 6
CHIT_UP_L	ACORODUCED CORIED OR	AND DRAWN KLW 01-27-97 DWG. ND. USED SALE NISSION. PROJ. D360 101531	SHEET 6 CONT. ON





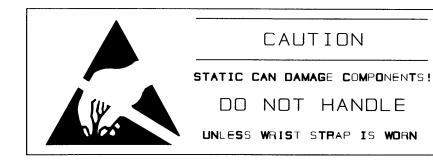
CT1610A Control Module 100V 102827 Information On Following Pages Documentation, Component Map, Schematic

	E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	A	PPR	DVAL	.S
	L. C. N.	ZONL	TIL V.		DATE	DI	СНК	ME	EE	PĘ
			A	INITIAL RELEASE	06/03/97	LCD	10			13
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UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102828.
- 2. PWB PART NUMBER 102824-1.
- 3. PWA PART NUMBER 102827-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.



	PRINTS					RNAT	- U I I	L INC	· ·
	К	PWA	CT16	10A C	DNTF	ROL 100		TOL.UNLESS SPEC X.XX - ± X.XXX - ± DRILLS - ±	0.020 0.010
		DRAWN	LCD	06/03/97	APPF	ROVED BY:	DO NO	T SCALE PRIN	11
INACTIVE		СНЕСКЕД	Kio	01-14-11-	ME		SUPERSED	ES	
For Reference Use Only		SCALE	N	IONE	EE		E.C.N.		
THESE DRAWINGS AND SPECIFICATIONS ARE PROPERTY OF CROWN INTERNATIONAL, INC.	AND	PROJ #	N	1D360D0	PE	564.99	DWG. NO.	SHEET 1 OF 5	
SHALL NOT BE REPRODUCED, COPIED, OR USS AS THE BASIS FOR THE MANUFACTURE OR SAN OF APPARATUS OR DEVICES WITHOUT PERMISS	_E	NEXT ASS	EMBLY			<u> </u>	1028	27	(A)

PWB. CT10A CONTROL. PWB. CT10A CONTROL. 01031-1 FASTON. TAB.250 PC MNT 01131-1 NTC. INRUSH CURR LIMITER 4A 0124-24 WIRE. #24 SOLID BUS 0265-10021 10. KOHM.25W 1 MF T/R 0265-24921 24.9 KOHM.25W 1 MF T/R 0265-24921 24.9 KOHM.25W 1% MF T/R 0265-24921 24.9 KOHM.25W 1% MF T/R 0265-24921 24.9 KOHM.25W 5% CF T/R 0266-1061 10. MOHM.25W 5% CF T/R 0266-1081 12.KOHM.25W 5% CF T/R 0266-1831 18. KOHM.25W 5% CF T/R 0266-2441 240. KOHM.25W 5% CF T/R 0266-2441 240. KOHM.25W 5% CF T/R 0266-2721 27. KOHM.25W 5% CF T/R 0266-2731 27. KOHM.25W 5% CF T/R 0266-2731 27. KOHM.25W 5% CF T/R 0266-5612 560. OHM.5W 5% CF T/R 0266-5612 560. OHM.5W 5% CF T/R 0266-5612 560. OHM.5W 5% CF T/R 0311-2 DIODE.1N4148 T/R 3533-4 DIODE.1N4148 T/R 3625-8 224F 50V 20% NP VERT T/A 6802-0 .474F 50V AXIAL CER T/R 474	QTY 1 13 1 4 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 W1, W10, W2, W3, W4, W5, W6, W7 W8, W9, W11, W12, W13 R958 R937, R959 R938, R945, R947, R948, R957 R963, R964, R965, R966, R967 R949, R968 R944 R946 R936 R936, R933 R930, R933 R931, R934 R931, R934 R953 R932, R935, R952 R939, R940 R951
11031-1 FASTON. TAB .250 PC MNT 01131-1 NTC. INRUSH CURR LIMITER 4A 0124-24 WIRE, #24 SOLID BUS 0265-10021 100. KOHM .25W 1 MF T/R 0265-10031 100. KOHM .25W 1 MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-24921 24.9 KOHM .25W 5% CF T/R 0265-1001 10. MOHM .25W 5% CF T/R 0265-1231 12.KOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2731 27. KOHM .25W 5% CF T/R 0266-2731 27. KOHM .25W 5% CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-2731 51. KOHM .25W 5 CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 3625-8 2N4125 30V PNP T/R 5311-2 DIODE, 1N4148 T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A <	1 3 1 4 " 10 2 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 3 2 1 1 1 1 1 1 1	W1, W10, W2, W3, W4, W5, W6, W7 W8, W9, W11, W12, W13 R958 R937, R959 R938, R945, R947, R948, R957 R963, R964, R965, R966, R967 R949, R968 R944 R946 R936 R936 R930, R933 R931, R934 R931, R934 R953 R932, R935, R952 R939, R940 R951
Image: Section of the sectio	1 4" 10 2 1 1 1 2 1 1 2 1 2 1 3 2 1 1 1 1 1 1 1	W8, W9, W11, W12, W13 R958 R937, R959 R938, R945, R947, R948, R957 R963, R964, R965, R966, R967 R949, R968 R944 R946 R936 R930, R933 R931, R934 R931, R934 R953 R932, R935, R952 R939, R940 R951
0124-24 WIRE, #24 SOLID BUS 0265-10021 10. KOHM .25W 1 MF T/R 0265-10031 100. KOHM .25W 1 MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-27411 2.74KOHM .25W 1% MF T/R 0266-1061 10. MOHM .25W 5% CF T/R 0266-1231 12.KOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-5612 560.OHM .5W 5% CF T/R 0266-5613 51.KOHM .25W 5 0266-5614 560.OHM .5W 5% CF T/R 0265-5615 560.OHM .5W 5% CF T/R 0265-617 70.050% AXIAL CER T/R 353-4 DIODE, 1N4148 T/R 3511-3 22UF 50V 20% NP VERT T/A 6802-0	4 " 1 Ø 2 1 1 1 1 2 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1	R958 R937,R959 R938,R945,R947,R948,R957 R963,R964,R965,R966,R967 R949,R968 R944 R946 R936 R930,R933 R930,R933 R943 R931,R934 R953 R932,R935,R952 R939,R940 R951
0124-24 WIRE, #24 SOLID BUS 0265-10021 10. KOHM .25W 1 MF T/R 0265-10031 100. KOHM .25W 1 MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-27411 2.74KOHM .25W 1% MF T/R 0266-1061 10. MOHM .25W 5% CF T/R 0266-1231 12.KOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-2731 27.KOHM .25W 5 0266-5612 560.OHM .5W 5% CF T/R 0266-5613 51.KOHM .25W 5 0266-5614 560.OHM .5W 5% CF T/R 0265-5615 560.OHM .5W 5% CF T/R 0265-617 70.050% AXIAL CER T/R 353-4 DIODE, 1N4148 T/R 3511-3 22UF 50V 20% NP VERT T/A 6802-0	4 " 1 Ø 2 1 1 1 1 2 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1	R937,R959 R938,R945,R947,R948,R957 R963,R964,R965,R966,R967 R949,R968 R944 R946 R936 R930,R933 R930,R933 R931,R934 R953 R932,R935,R952 R939,R940 R951
0265-10021 10. KOHM .25W 1 MF T/R 0265-10031 100. KOHM .25W 1 MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-27411 2.74KOHM .25W 1% MF T/R 0265-1061 10. MOHM .25W 5% CF T/R 0266-1231 12.KOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27. KOHM .25W 5 0266-5131 51. KOHM .25W 5 0266-5131 51. KOHM .25W 5 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 3181-2 DIODE. 1N4148 T/R 3533-4 DIODE. 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 3531-3 22UF 50V 20% NP VERT T/A 6804-6 .1UF 50V AXIAL CER T/R 104 T	10 2 1 1 2 1 2 1 2 1 3 2 1 1 1 1 1 1 1	R938, R945, R947, R948, R957 R963, R964, R965, R966, R967 R949, R968 R944 R946 R936 R930, R933 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951
0265-10031 100. KOHM .25W 1 MF T/R 0265-24921 24.9 KOHM .25W 1% MF T/R 0265-27411 2.74KOHM .25W 1% MF T/R 0265-1061 10. MOHM .25W 5% CF T/R 0266-1061 10. MOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5613 51. KOHM .25W 5 CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 0353-4 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6804-6 .1UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7558-7 MC33079P OUAD LOW NOISE O	2 1 1 2 1 2 1 3 2 1 1 1 1 1 1	R963, R964, R965, R966, R967 R949, R968 R944 R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951
0265-24921 24.9 KOHM 25W 1% MF T/R 0265-27411 2.74KOHM 25W 1% MF T/R 0266-1061 10 MOHM 25W 5% CF T/R 0266-1231 12.KOHM 25W 5% CF T/R 0266-1811 180 OHM 25W 5% CF T/R 0266-1831 18.KOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5W 5% CF T/R 0266-2731 27.KOHM 5W 5% CF T/R 0266-2731 27.KOHM 25W 5% CF T/R 0266-4712 470.0 50W.5% CF 0266-5131 51.KOHM 25W 5% CF T/R 0266-5612 560.OHM 5W 5% CF T/R 0266-5612 560.OHM 5W 5% CF T/R 0265-8 2N4125 30V PNP T/R 2333-4 010DE. 1N4004 SILICON T/ 3181-2 DIODE. 1N4148 T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 <td>1 1 2 1 2 1 3 2 1 1 1 1 1</td> <td>R949, R968 R944 R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951</td>	1 1 2 1 2 1 3 2 1 1 1 1 1	R949, R968 R944 R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951
0265-24921 24.9 KOHM 25W 1% MF T/R 0265-27411 2.74KOHM 25W 1% MF T/R 0266-1061 10 MOHM 25W 5% CF T/R 0266-1231 12.KOHM 25W 5% CF T/R 0266-1811 180 OHM 25W 5% CF T/R 0266-1831 18.KOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5W 5% CF T/R 0266-2731 27.KOHM 5W 5% CF T/R 0266-2731 27.KOHM 25W 5% CF T/R 0266-4712 470.0 50W.5% CF 0266-5131 51.KOHM 25W 5% CF T/R 0266-5612 560.OHM 5W 5% CF T/R 0266-5612 560.OHM 5W 5% CF T/R 0265-8 2N4125 30V PNP T/R 2333-4 010DE. 1N4004 SILICON T/ 3181-2 DIODE. 1N4148 T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 <td>1 1 2 1 2 1 3 2 1 1 1 1 1</td> <td>R944 R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951</td>	1 1 2 1 2 1 3 2 1 1 1 1 1	R944 R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951
0265-27411 2.74KOHM 25W 1% MF T/R 0266-1061 10. MOHM 25W 5% CF T/R 0266-1231 12.KOHM 25W 5% CF T/R 0266-1811 180. OHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2441 240. KOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5% CF T/R 0266-2731 27. KOHM 25W 5% CF T/R 0266-2731 27.KOHM 25W 5% CF T/R 0266-5131 51.KOHM 25W 5% CF T/R 0266-5612 560.OHM 5% 5% CF T/R 0265-581 50.OHM 5% 5% CF T/R 3181-2 DIODE, 1N4148 T/R 3533-4 310DE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 3311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 7444-0 LM393 DUAL COMPARATOR 7558-7 <td>1 1 2 1 3 2 1 1 1 1 1 1</td> <td>R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951</td>	1 1 2 1 3 2 1 1 1 1 1 1	R946 R936 R930, R933 R943 R931, R934 R953 R932, R935, R952 R939, R940 R951
0266-1061 10. MOHM .25W 5% CF T/R 0266-1231 12.KOHM .25W 5% CF T/R 0266-1811 180. OHM .25W 5% CF T/R 0266-1831 18.KOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27.KOHM .25W 5 CF T/R 0266-2731 27.KOHM .25W 5 CF T/R 0266-5131 51.KOHM .25W 5 CF T/R 0266-5612 560.OHM .5W 5% CF T/R 0265-8 2N4125 30V PNP T/R 3181-2 DIODE. 1N4148 T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC30031 ZERO OPTO TRIAC 7	1 2 1 2 1 3 2 1 1 1 1 1	R936 R930,R933 R943 R931,R934 R953 R932,R935,R952 R939,R940 R951
0266-1231 12.KOHM 25W 5% CF T/R 0266-1811 180.OHM 25W 5% CF Z5 T/R 0266-1831 18.KOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5W 5% CF T/R 0266-2731 27.KOHM 25W 5% CF T/R 0266-5131 51.KOHM 25W 5% CF T/R 0266-5612 560.OHM 5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE.1N4148 T/R 3533-4 DIODE.1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7558-7	2 1 2 1 3 2 1 1 1 1 1	R930,R933 R943 R931,R934 R953 R932,R935,R952 R939,R940 R951
0266-1811 180. OHM 25W 5% CF25 T/R 0266-1831 18. KOHM 25W 5% CF T/R 0266-2051 2 MOHM 25W 5 CF T/R 0266-2441 240. KOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5W 5% CF T/R 0266-2731 27. KOHM 25W 5% CF T/R 0266-2731 27. KOHM 25W 5% CF T/R 0266-2731 27. KOHM 25W 5% CF T/R 0266-5131 51. KOHM 25W 5% CF T/R 0266-5612 560. OHM 5W 5% CF T/R 0265-8 2N4125 30V PN 7/R 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI	1 2 1 3 2 1 1 1 1 1	R943 R931,R934 R953 R932,R935,R952 R939,R940 R951
0266-1831 18. KOHM .25W 5% CF T/R 0266-2051 2 MOHM .25W 5% CF T/R 0266-2441 240. KOHM .25W 5% CF T/R 0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-4712 470, 0.50W, 5% CF T/R 0266-5131 51. KOHM .25W 5 CF T/R 0266-5612 560. OHM .5W 5% CF T/R 181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 78369-8 1N747A 3.6V 5% ZENER .5W	2 1 3 2 1 1 1 1 1	R931,R934 R953 R932,R935,R952 R939,R940 R951
0266-2051 2 MOHM 25W 5 CF T/R 0266-2441 240 KOHM 25W 5% CF T/R 0266-2722 2.7 KOHM 5W 5% CF T/R 0266-2731 27. KOHM 25W 5 CF T/R 0266-4712 470, 0.50W, 5% CF T/R 0266-5131 51. KOHM 25W 5 CF T/R 0266-5612 560. OHM 5W 5% CF T/R 0266-5612 560. OHM 5W 5% CF T/R 0266-5612 560. OHM 5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC30031 ZERO OPTO TRIAC 7662-7 MAC218A6 BAMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1 3 2 1 1 1 1	R953 R932,R935,R952 R939,R940 R951
0266-2441 240 KOHM 25W 5% CF T/R 0266-2722 2.7 KOHM SW 5% CF T/R 0266-2731 27. KOHM 25W 5% CF T/R 0266-4712 470, 0.50W, 5% CF T/R 0266-5131 51. KOHM 25W 5 CF 7/R 0266-5612 560. OHM SW 5% CF 7/R 2 3181-2 DIODE, 1N4148 T/R 3 3533-4 DIODE, 1N966B 16V ZENER 7/R 3 3625-8 2N4125 30V PNP 7/R 3 5311-3 22UF 50V 20% NP VERT 7/A 6 6802-0 .47UF 50V AXIAL CER 7/R 474 6 6804-6 .1UF 50V AXIAL CER 7/R 104 7 7444-0 LM393 DUAL COMPARATOR 7 758-7 MC33079P OUAD LOW NOISE OP A 7 7662-7 MAC218A6 8AMP 400V TRIAC 7 7	3 2 1 1 1 1	R932,R935,R952 R939,R940 R951
0266-2722 2.7 KOHM .5W 5% CF T/R 0266-2731 27. KOHM .25W 5 CF T/R 0266-4712 470, 0.50W, 5%, CF 0266-5131 51. KOHM .25W 5 CF 25 T/R 0266-5612 560. OHM .5W 5% CF T/R 0266-5612 560. OHM .5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	2 1 1 1 1	R939, R940 R951
0266-2731 27. KOHM 25W 5 CF T/R 0266-4712 470, 0.50W, 5%, CF 0266-5131 51. KOHM 25W 5 CF25 T/R 0266-5612 560. OHM 5W 5% CF T/R 0266-5612 560. OHM 5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 BAMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1 1 1 1	R951
0266-4712 470, 0.50W, 5%, CF 0266-5131 51. KOHM .25W 5 CF25 T/R 0266-5612 560. OHM .5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1 1 1	
Ø266-5131 51. KOHM .25W 5 CF25 T/R Ø266-5612 560. OHM .5W 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	
0266-5612 560. OHM 5% 5% CF T/R 2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	R961
2851-1 RECTIFIER, 1N4004 SILICON T/ 3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 BAMP 400V TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM		R950
3181-2 DIODE, 1N4148 T/R 3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	R960
3533-4 DIODE, 1N966B 16V ZENER T/R 3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	•	D934
3625-8 2N4125 30V PNP T/R 5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	2	D930, D931
5311-3 22UF 50V 20% NP VERT T/A 6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P QUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	2	D935,D936
6802-0 .47UF 50V AXIAL CER T/R 474 6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 BAMP 400V TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	5	Q930,Q932,Q933,Q934,Q935
6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	C935
6804-6 .1UF 50V AXIAL CER T/R 104 7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	C939
7444-0 LM393 DUAL COMPARATOR 7558-7 MC33079P QUAD LOW NOISE OP A 7662-7 MAC218A6 BAMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	6	C933, C934, C936, C937, C941
7558-7 MC33079P OUAD LOW NOISE OP A 7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM		C942
7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	U931
7662-7 MAC218A6 8AMP 400V TRIAC 7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS .1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	U930
7664-3 MOC3031 ZERO OPTO TRIAC 7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM		Q931
7873-0 2POS 1 CENTER MTA HEADER TI 8369-8 1N747A 3.6V 5% ZENER 5W 8554-5 .22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	U932
8369-8 1N747A 3.6V 5% ZENER .5W 8554-5 22UF 250V 10% POLYESTER 8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 01 250VAC UL/CSA 20% FILM	2	1902, 1903
8554-5 .22UF 25ØV 10% POLYESTER 8894-5 1UF 5ØV VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	2	D932, D933
8894-5 1UF 50V VERT 10% NP ELECT T/ 9592-4 .01 250VAC UL/CSA 20% FILM	1	C938
9592-4 .01 250VAC UL/CSA 20% FILM	- '	C94Ø
		C932
9885-2 14PIN DUAL ROW HDR . 1 X.1 CT	1	J901
9930-6 11.8 OHM 3W 5% WW T/R	2	 R941, R942
0335-5 RELAY, 30A 24V T90 SEALED CE	2	K930, K931
LECT SURVEY SURVEY SURVEY LE		1001
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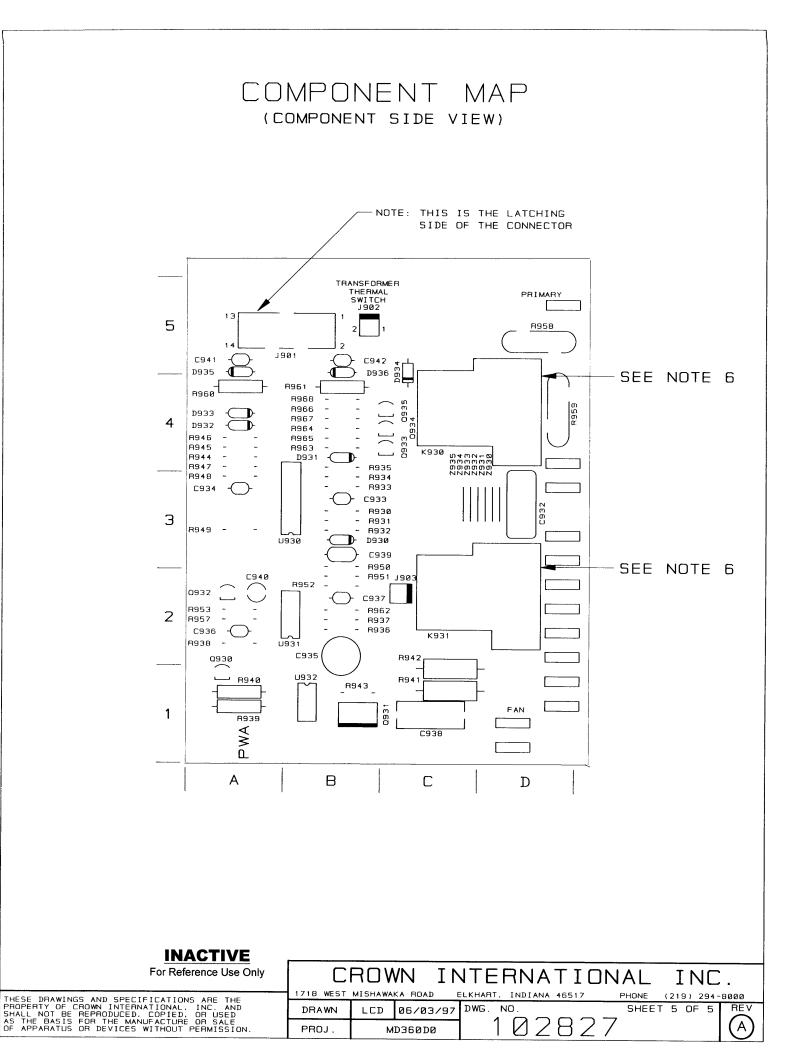
INC. INTERNATIONAL ELKHART, INDIANA 46517 PHONE (219) 294-8000 7 DWG. ND. SHEET 2 0F 5 RE 27

REV

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REF DES	C.P.N.	PARTS LIST	MAP LOC.
1	102824-1	PWB, CT10 CONTROL, , ,	MAP LUL.
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	D З
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 3
<u>C934</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	B3A3
C935	C 5311-3	22UF 50V 20% NP VERT T/A	B 2
 C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
 C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C938	C 8554-5	. 22UF 250V 10% POLYESTER	C 1
C939	C 6802-0	.47UF 50V AXIAL CER T/R 474	B 3
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 5
D930	C 3181-2	DIODE, 1N4148 T/R	В 3
D931	C 3181-2	DIODE, 1N4148 T/R	B 4
D932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 5
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
D936	С 3533-4	DIODE, 1N966B 16V ZENER T/R	85
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
J902	C 7873-0	2POS . 1 CENTER MTA HEADER TIN	B 5
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 4
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	С 2
2930	C 3625-8	2N4125 30V PNP T/R	A 1
2931	C 7662-7	MAC218A6 BAMP 400V TRIAC	B 1
2932	C 3625-8	2N4125 30V PNP T/R	A 2
2933	C 3625-8	2N4125 30V PNP T/R	В 4
2934	C 3625-8	2N4125 30V PNP T/R	B 4
2935	C 3625-8	2N4125 30V PNP T/R	B 4
7930	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
7931	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
7932	A10266-2441	240. KOHM .25W 5% CF T/R	В 3
EEPF	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
7934	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
7935	A10266-2441	240. KOHM .25W 5% CF T/R	B 4
R936	A10266-1061	10. MOHM .25W 5 CF25 T/R	B 2
7937	A10124-24	WIRE, #24 SOLID BUS	B 2
8565	A10265-10021	10. KOHM.25W 1 MF T/R	A 2
939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
7940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
7941	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
R942	С 9930-6	11.8 OHM 3W 5% WW T/R	C 1
7943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
7944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
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	6 C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R945	A10265-10021		A 4
R946	A10265-27411		A 4
R947	A10265-10021		A 4
R948	A10265-10021	10. KOHM .25W 1 MF T/R	A 3
R949	A10265-10031	100. KOHM .25W 1 MF T/R	A 3
R950	A10266-5131	51. KOHM . 25W 5 CF25 T/R	B 3
R951	A10266-2731	27. KOHM .25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM.25W.1 MF T/R	A 2
R958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D 4
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962		DO NOT INSTALL	B 2
R963	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R964	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R965	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021	10. KOHM.25W1 MF T/R	B 4
R968	A10265-10031	100. KOHM .25W 1 MF T/R	B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	В 3
U931	C 7444-0	LM393 DUAL COMPARATOR	В 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D 5
WЭ	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	D 1
W6	101031-1	FASTON, TAB .250 PC MNT	D 1
W7	101031-1	FASTON, TAB .250 PC MNT	DЗ
W8	101031-1	FASTON, TAB .250 PC MNT	D 1
W9	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 Ø	101031-1	FASTON, TAB .250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB .250 PC MNT	DЭ
W12	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 3	101031-1	FASTON, TAB .250 PC MNT	DЗ
Z930		NOT USED	DЗ
Z931		NOT USED	DЗ
Z932		NOT USED	DЗ
Z933		NOT USED	DЗ
Z934		NOT USED	DЗ
Z935		NOT USED	DЗ
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	AND SPECIFICATIONS AR	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
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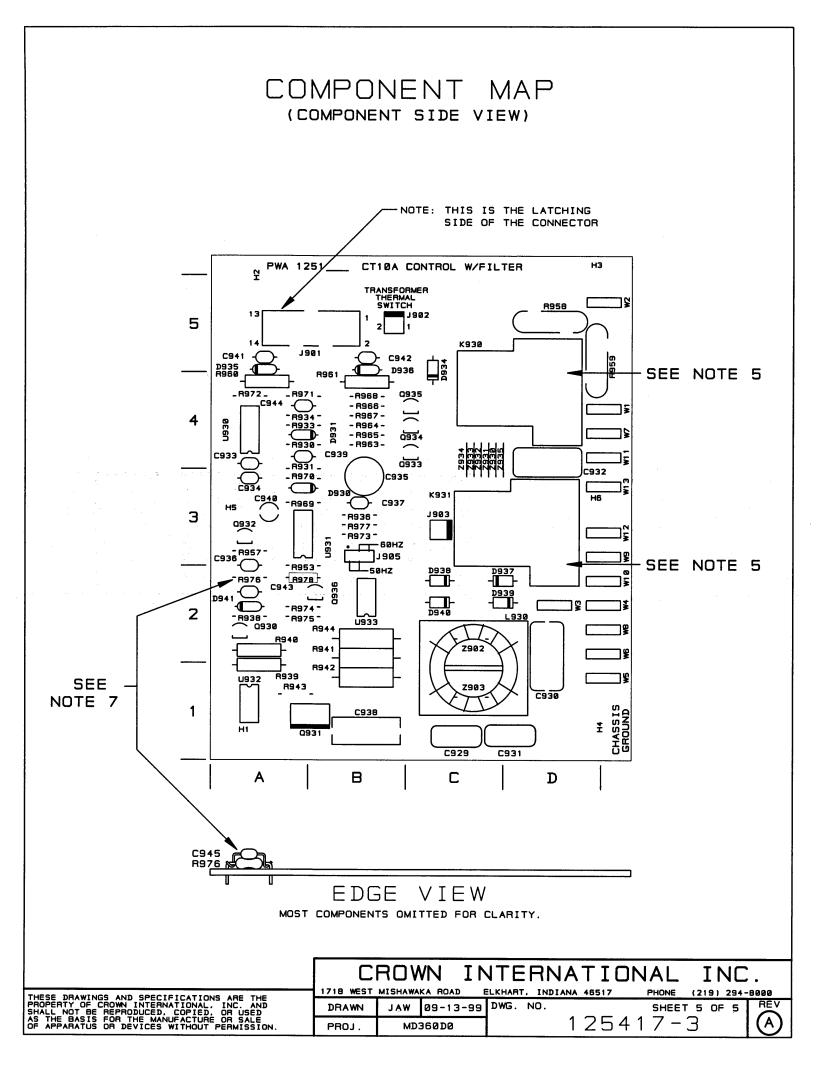
CT1610A Control Module 100V 125417 Information On Following Pages Documentation, Component Map, Schematic

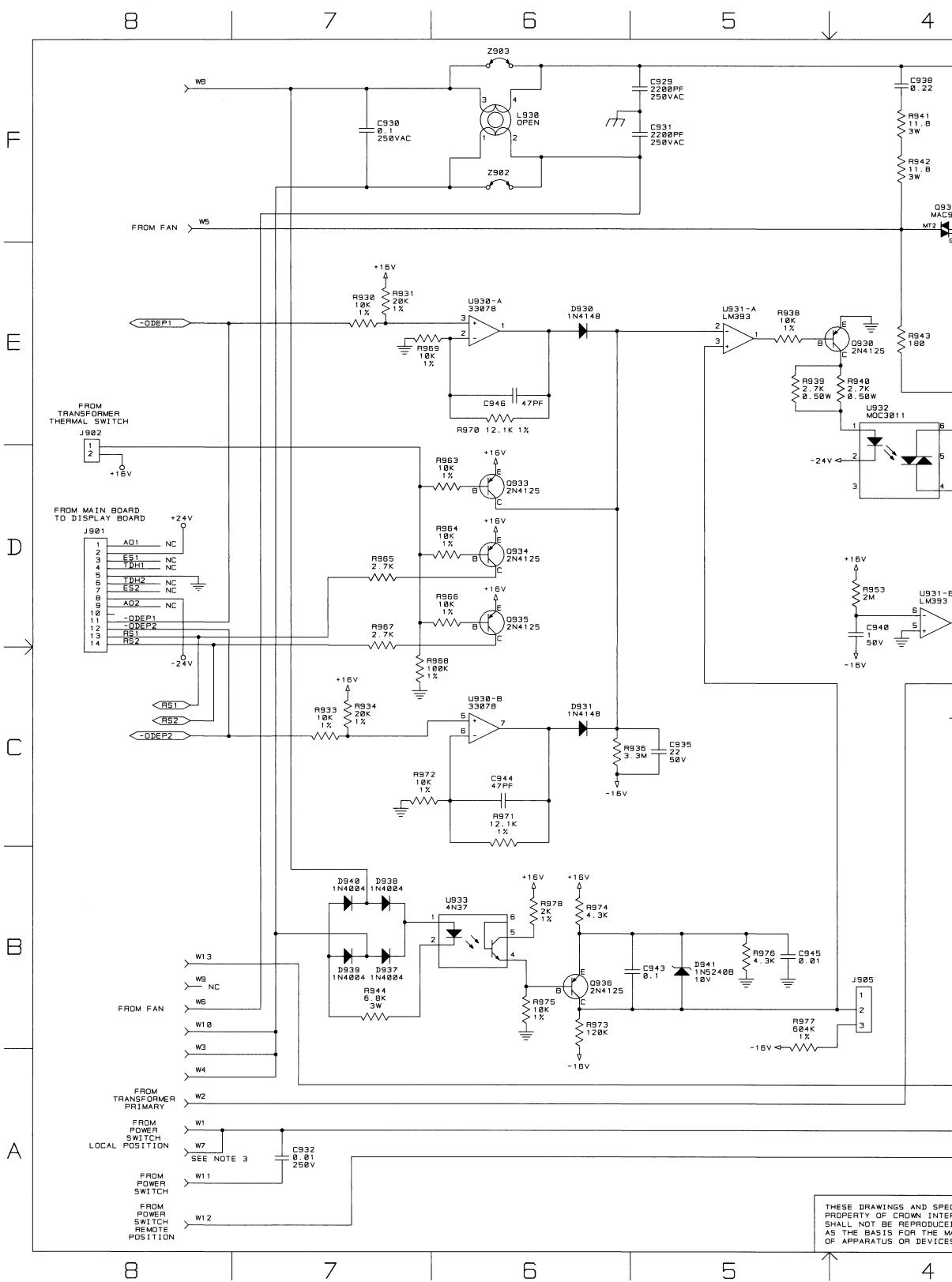
	E.C.N.	ZONE	REV.	DESCRIPTION	DATE	BY	СНК	CM	EE	-3 TPE
	T991758		A	RELEASE FOR PRODUCTION.	09-13-99					
	•	•				•	•	•	•	•
			TETE	D, THE FINISHED PWA SHALL MEET						
IPC-A-610_ (, 11 16	D, THE FINISHED FWA SHALL MEET						
NOTES:										
	ישת חוד			IMBER 125422.						
				PART NUMBER 125415-1.						
				RIMMED TO 0.093" OR LESS.						
				AS SHOWN ON COMPONENT MAP.						
				OF THE RELAY K930 AND K931 MU			NED	I		
				ROCESS, BY EITHER REMOVING THE THE CIRCULAR TAB WITH AN "EXAC"						
				OOL. WARNING, THIS STEP MUST BE			TER			
				NOT BEFORE!!! WATER OR CLEANIN						
				ENT HOLE WILL DAMAGE THE RELAY			. –			
6. THE CRC	WN PAF		UMBE	R FOR THIS MODULE SHALL BE MARK	ED ON	тне				
PRINTE	D CIRCU	TIL	BOAF	D AND SHALL BE PERMANENT.						
7. SOLDER	C945 (C 68	806-	1) ACROSS R976 AS SHOWN ON THE	COMPON	ENT	- м	AP.		
			C	CAUTION						
	•	STATI	IC CA	N DAMAGE COMPONENTS!						
/ 110 4				NOT HANDLE						
		UNLE	:55 W	RIST STRAP IS WORN						
								N 1 C		
		Г	00.1	_ CROWN INTERNAT:			_	NC		
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		ŀ		PWA CT1610A CONTROL 100				(= ±	: Ø. Ø	20
		┝				DF	RILLS	; - ±	0.0	
		┝		DRAWN JAW 09-13-99 APPROVED BY:	DO NOT		ALE	PRI	NT	
		ŀ			. C. N.					
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	PARTS LI		
C.P.N.	DESCRIPTION	ατγ	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	4 ''	R959, Z902
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930,R933,R938,R957,R963,
		<u> </u>	R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974, R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON TA		D934, D937, D938, D939, D940
<u>C 3181-2</u>	DIODE, 1N4148 T/R	2	D930, D931
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	2	D935.D936
<u>C 3549-0</u>	DIODE, ZENER 10V 1N52408 T/F		D941
C 3625-8	2N4125 30V PNP T/R	6	<u>Q930,Q932,Q933,Q934,Q935,</u>
<u> </u>			Q936
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	C935
<u>C 5868-2</u>	O OHM 0.25W 20MILOHM MAX T/F		
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	<u>C933, C934, C936, C937, C941,</u>
	.01UF 100V AXIAL CER T/R	+	C942, C943
<u>C 6806-1</u> C 6812-9	47PF 200V 10% NPO AXL CER	2	C945 C939, C944
C 7444-0	LM393 DUAL COMPARATOR	$\frac{2}{1}$	U931
C 7636-1	MC33078P DUAL LOW NOISE OP A		U930
C 7665-0	MC3011 OPTO TRIAC		U932
C 7746-8	3POS SGLROW HDR . 025 POST G	$\frac{1}{1}$	J 905
C 7873-0	2POS .1 CENTER MTA HEADER TI		J902.J903
C 8554-5	.22UF 250V 10% POLYESTER	1 1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/		C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLE		U933
<u>C 9592-4</u>	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT		J901
<u>C 9930-6</u>	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10325-6	2200 PF 250VAC 20% FILM Y2	2	C929, C931
C10326-4	1UF 250VAC 20% FILM X2	1	C930
C10335-5	RELAY, 30A 24V T90 SEALED CE		K930, K931
101031-1	FASTON, TAB . 250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
			W10, W11, W12, W13
101131-1	NTC, INRUSH CURR LIMITER 4A	1	R958
125106-1	MAC9D BA 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1 1	
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REF DES	C P N	PARTS LIST DESCRIPTION	MAP LOC.
	C10325-6	2200.PF 250VAC 20% FILM Y2	MAP LUL.
2930	C10326-4	.1UF 250VAC 20% FILM X2	
2930 2931	C10325-6	2200.PF 250VAC 20% FILM X2	
2932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
 	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C935	C 5311-3	22UF 50V 20% NP VERT T/A	
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	
 	C 6804-6	.1UF 50V AXIAL CER T/R 104	
 _938	C 8554-5	.22UF 250V 10% POLYESTER	
 _939	C 6812-9	47PF 200V 10% NPO AXL CER	
 _940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
 	C 6804-6	.1UF 50V AXIAL CER T/R 104	
_ <u>943</u>	C 6804-6	.1UF 50V AXIAL CER T/R 104	
 	C 6812-9		
_ <u></u>	C 6806-1	47PF 200V 10% NPO AXL CER	
		.01UF 100V AXIAL CER T/R	
D930	C 3181-2	DIODE, 1N4148 T/R	
	<u>C 3181-2</u>	DIODE, 1N4148 T/R	
0934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
0937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
0941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
1901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
930		OPEN	
2930	C 3625-8	2N4125 30V PNP T/R	
1931	125106-1	MAC9D BAMP 400V TRIAC	
1932	C 3625-8	2N4125 30V PNP T/R	
2933	C 3625-8	2N4125 30V PNP T/R	
2934	C 3625-8	2N4125 30V PNP T/R	
1935	C 3625-8	2N4125 30V PNP T/R	
2936	C 3625-8	2N4125 30V PNP T/R	
0286	A10265-10021	10K OHM 0.25W 1% MF T/R	
1593	A10265-20021	20K OHM 0.25W 1% MF T/R	
2933	A10265-10021	10K OHM 0.25W 1% MF T/R	
7934	A10265-20021	20K OHM 0.25W 1% MF T/R	
7936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
1938	A10265-10021	10K OHM 0.25W 1% MF T/R	
1939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7941	C 9930-6	11.8 OHM 3W 5% WW T/R	
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	
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REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	
R944	125158-1	6.8K OHM 3W 5% MF T/R	_
R953	A10266-2051	2M OHM Ø.25W 5% CF T/R	
R957	A10265-10021		
R958	101131-1	NTC, INRUSH CURRENT LIMITER 4A	
R959	A10124-24	WIRE, #24 SOLID BUSS	
R960	A10266-5612	560 OHM 0.50W 5% CF T/R	
R961	A10266-4712	470 OHM 0.50W 5% CF	
R963	A10265-10021	10K OHM 0.25W 1% MF T/R	
R964		10K OHM 0.25W 1% MF T/R	
R965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R966	A10265-10021		
R967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
R968	A10265-10031	100K OHM 0.25W 1% MF T/R	
R969	A10265-10021	10K OHM 0.25W 1% MF T/R	
R970		12.1K OHM 0.25W 1% CF25 T/R	
R971		12.1K OHM 0.25W 1% CF25 T/R	
R972		10K OHM 0.25W 1% MF T/R	
R973	A10266-1241	120K OHM 0.25W 5% CF T/R	
R974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R975	A10265-10021	10K OHM 0.25W 1% MF T/R	
7976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
7977	A10265-60431	604K OHM 0.25W 1% MF T/R	
R978	A10265-20011	2K OHM 0.25W 1% MF T/R	
1930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
J931	C 7444-0	LM393 DUAL COMPARATOR	
J932	C 7665-0	MOC3011 OPTO TRIAC	
1933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W1	101031-1	FASTON, TAB .250 PC MNT	
N2	101031-1	FASTON, TAB .250 PC MNT	
NЭ	101031-1	FASTON, TAB .250 PC MNT	
N4	101031-1	FASTON, TAB .250 PC MNT	
<i>N</i> 5	101031-1	FASTON, TAB .250 PC MNT	
W6	101031-1	FASTON, TAB .250 PC MNT	
N7	101031-1	FASTON, TAB .250 PC MNT	
W8	101031-1	FASTON, TAB .250 PC MNT	
N9	101031-1	FASTON, TAB .250 PC MNT	
W10	101031-1	FASTON, TAB .250 PC MNT	
W1 1	101031-1	FASTON, TAB .250 PC MNT	
W1 2	101031-1	FASTON, TAB .250 PC MNT	
V13	101031-1	FASTON, TAB .250 PC MNT	
2902	A10124-24	WIRE, #24 SOLID BUSS	
2903	C 5868-2	O OHM 0.25W 20MILOHM MAX T/R	
Z930		OPEN	
Z931		OPEN	
Z932		OPEN	
Z933		OPEN	
Z934		OPEN	
2935		OPEN	
	125415-1	PWB, CT10A CONTROL, ,	
DRAWINGS A	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	CROWN INTERNATION THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 DRAWN JAW 09-13-99 DWG. NO.	NAL INC <u>PHONE (219) 294-</u> SHEET 4 OF 5





			3	2	1	
	E.C.N.	ZONE	REV DESCRIPTION		DATE BY APPROVAL 11-10-97 KLW TLM EB	
931 C9D G	9960235		B ADDED C945. CONVE	RTED SCH FROM ORCAD TO CADSTAR.	05-27-99 KLW	F
6		-		E941 2.1 E942 2.1		E
5 4 13 10K 7 1% 7 1%	E	0992 2N4125	H961 -16V 470 0.50W -24V			D
-т• 4A R959 Ø Z930		D934 1 N4004	к932	NOTES : TITTITI 1. ALL RESISTORS ARE I 1/4W, 5% UNLESS OTH SPECIFIED. 2. ALL CAPACITORS ARE MICROFARADS UNLESS OTHERWISE SPECIFIED 3. FOR ALL 120V UNITS USING WIRE ASSEMBLY	HERWISE IN D. CONNECT W7 TO WB	
2931 		К931 О			C933 Ø.1 U930-C 3307B C934 Ø.1	В
PECIFICATIONS TERNATIONAL, II CED, COPIED, OI MANUFACTURE OI CES WITHOUT PER	NC. AND R USED R SALE	G	INTS TO DRAWN BY CHECKED SCALE PROJ. #	NN INTERNAT W. MISHAWAKA RD. ELKHART IN, 465 CT1610A CONTROL KLW 11-10-97 APPROVED BY: TLM 11-13-97 ME N/A NONE EE N/A MD360D0 PE EB 11-14-97 125422_B.SCM NEXT ASSEMBLY: 2	17 PHONE (219) 294-8000 TOL. UNLESS SPECIFIED	A

CT1610A Control Module 120V 102829 Information On Following Pages Documentation, Component Map, Schematic

E.C.N. ZO	C.N. ZONE REV.		DNE REV. DESCRIPTION	DATE	BY	APPROVALS			
C. C. N.	20142	··· L V .	DESCRIPTION	DATE		СНК	ME	EE	PE.
		A	INITIAL RELEASE	06/03/97	LCD	kω			B
_								1	

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102830.
- 2. PWB PART NUMBER 102824-1.
- 3. PWA PART NUMBER 102829-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

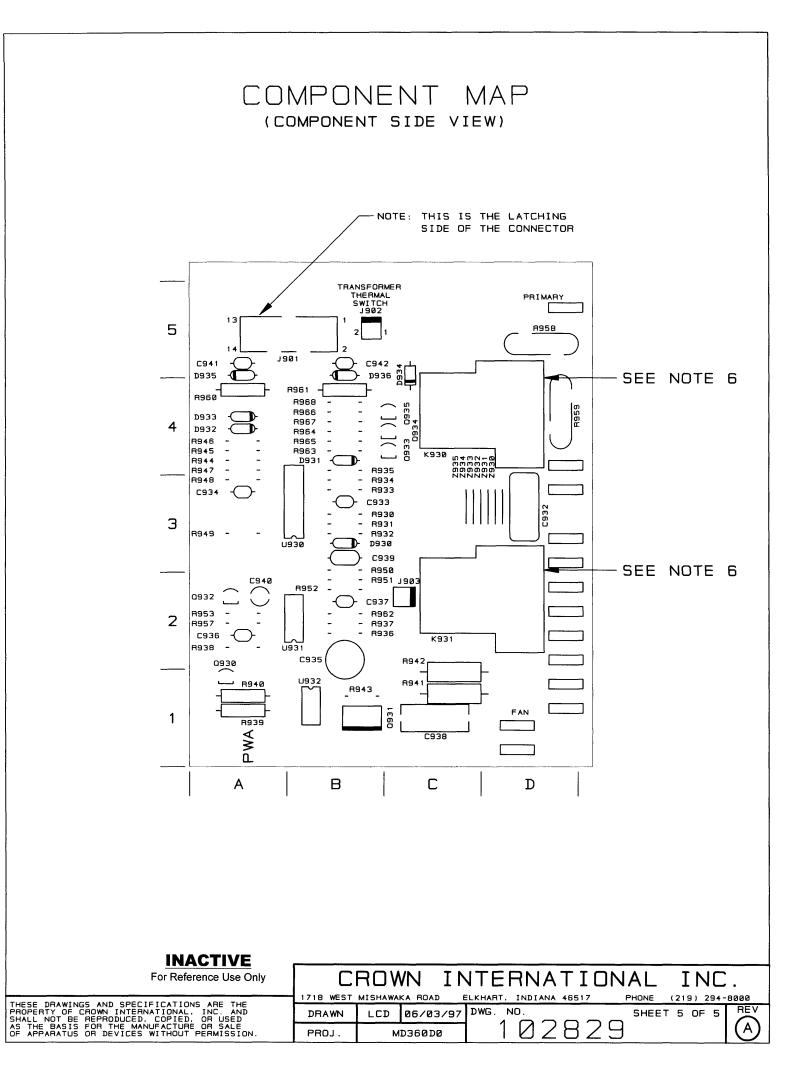


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	PRINTS						RNAT		L INC	
	К	PWA	СТ16	10A C	JN.	TRC)L 120		TOL.UNLESS SPEC X.XX = ± X.XXX = ± DRILLS = ±	0.020 0.010
INACTIVE		DRAWN	LCD	06/03/97	AF	PRO	VED BY:	DO NO	T SCALE PRIN	ŧΤ
For Reference Use Only		CHECKED	KW	06.04-97	ME			SUPERSED	ES	
		SCALE	N	IONE	EE	a		E.C.N.		
THESE DRAWINGS AND SPECIFICATIONS ARE 1 PROPERTY OF CROWN INTERNATIONAL, INC. A SHALL NOT BE REPRODUCED, COPIED, OR USE		PROJ #	N	D360D0	PE	B	6-4-97	DWG. NO.	SHEET 1 OF 5	REV
AS THE BASIS FOR THE MANUFACTURE OR SAL OF APPARATUS OR DEVICES WITHOUT PERMISS	E	NEXT ASS	EMBLY			,		1028	29	(A)

	PARTS LIS	Т	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
102824-1	PWB, CT10A CONTROL, , ,	1	1
101031-1	FASTON, TAB .250 PC MNT	13	W1,W10,W2,W3,W4,W5,W6,W7,
			W8, W9, W11, W12, W13
100445-1	NTC, INRUSH CURR LIMITER 3A	1	R958
A10124-24	WIRE, #24 SOLID BUS	4 ''	R937, R959
A10265-10021	10. KOHM .25W 1 MF T/R	10	R938, R945, R947, R948, R957,
			R963, R964, R965, R966, R967
A10265-10031	100. KOHM .25W 1 MF T/R	2	R949, R968
A10265-24921	24.9 KOHM .25W 1% MF T/R	1	R944
A10265-27411	2.74KOHM .25W 1% MF T/R	1	R946
A10266-1061	10. MOHM . 25W 5% CF T/R	1	R936
A10266-1231	12.KOHM .25W 5% CF T/R	2	R930, R933
A10266-1811	180. OHM .25W 5% CF25 T/R	1	R943
A10266-1831	18. KOHM .25W 5% CF T/R	2	R931, R934
A10266-2051	2 MOHM . 25W 5 CF T/R	1	R953
A10266-2441	240. KOHM .25W 5% CF T/R	3	R932, R935, R952
A10266-2722	2.7 KOHM .5W 5% CF T/R	2	R939, R940
A10266-2731	27. KOHM . 25W 5 CF T/R	1	R951
A10266-4712	470, 0.50W, 5%, CF	1	R961
A10266-5131	51. KOHM . 25W 5 CF25 T/R	1	R950
A10266-5612	560. OHM .5W 5% CF T/R	1	R960
C 2851-1	RECTIFIER, 1N4004 SILICON T/	1	D934
C 3181-2	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
C 3625-8	2N4125 30V PNP T/R	5	Q930, Q932, Q933, Q934, Q935,
C 5311-3	22UF 50V 20% NP VERT T/A	1	C935
C 6802-0	.47UF 50V AXIAL CER T/R 474	1	C939
C 6804-6	.1UF 50V AXIAL CER T/R 104	6	C933.C934.C936.C937.C941.
	THI SEV ANIAL CERTINITE		C942
C 7444-0	LM393 DUAL COMPARATOR		U931
C 7558-7	MC33079P QUAD LOW NOISE OP A		U930
C 7662-7	MAC218A6 BAMP 400V TRIAC		Q931
C 7664-3	MOC3031 ZERO OPTO TRIAC		U932
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8369-8	1N747A 3.6V 5% ZENER .5W	2	D932, D933
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10335-5	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
L 1033575	HELAI, JUA 24V IDU DEALED LE	<u> </u>	
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L NOT BE REPRODUCED,			102829

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
1	102824-1	PWB, CT10A CONTROL, , ,	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	DЗ
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	в 3
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u>Б А</u>
C935	C 5311-3	22UF 50V 20% NP VERT T/A	B 2
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 2
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C938	C 8554-5	.22UF 250V 10% POLYESTER	C 1
C939	C 6802-0	.47UF 50V AXIAL CER T/R 474	В 3
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	A 2
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	A 5
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 5
D930	C 3181-2	DIODE, 1N4148 T/R	ВЗ
D931	C 3181-2	DIODE, 1N4148 T/R	B 4
D932	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D933	C 8369-8	1N747A 3.6V 5% ZENER .5W	A 4
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 5
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	A 5
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	B 5
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	B 5
J902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	В 5
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	C 2
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 4
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	C 2
2930	C 3625-8	2N4125 30V PNP T/R	A 1
2931	C 7662-7	MAC218A6 BAMP 400V TRIAC	B 1
2932	C 3625-8	2N4125 30V PNP T/R	A 2
2933	C 3625-8	2N4125 30V PNP T/R	B 4
2934	C 3625-8	2N4125 30V PNP T/R	B 4
2935	C 3625-8	2N4125 30V PNP T/R	B 4
930		12.KOHM .25W 5% CF T/R	В 3
7931	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
7932	A10266-2441	240. KOHM . 25W 5% CF T/R	В З
2933	A10266-1231	12.KOHM .25W 5% CF T/R	В 3
7934	A10266-1831	18. KOHM .25W 5% CF T/R	В 3
7935	A10266-2441	240. KOHM .25W 5% CF T/R	B 4
7936	A10266-1061	10. MOHM .25W 5 CF25 T/R	B 2
7937	A10124-24	WIRE, #24 SOLID BUS	B 2
8565	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
939	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
7940	A10266-2722	2.7 KOHM .5W 5% CF T/R	A 1
941	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	C 1
7943	A10266-1811	180. OHM .25W 5% CF25 T/R	B 1
7944	A10265-24921	24.9 KOHM .25W 1% MF T/R	A 4
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DRAWINGS A	ND SPECIFICATIONS AR N INTERNATIONAL, INC RODUCED, COPIED, OR U THE MANUFACTURE OR S DEVICES WITHOUT PERM		PHONE (219) 294- SHEET 3 OF 5

REE DEG	6 C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R945	A10265-10021	10. KOHM . 25W 1 MF T/R	
R946	A10265-27411		A 4
R947	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
R948	A10265-10021	10. KOHM .25W 1 MF T/R	A 4
R949	A10265-10031	100. KOHM .25W 1 MF T/R	E A
R950	A10266-5131	51. KOHM . 25W 5 CF25 T/R	A_3 B_3
R951	A10266-2731	27. KOHM . 25W 5 CF T/R	B 2
R952	A10266-2441	240. KOHM .25W 5% CF T/R	B 2
R953	A10266-2051	2 MOHM . 25W 5 CF T/R	A 2
R957	A10265-10021	10. KOHM .25W 1 MF T/R	A 2
R958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	D 5
R959	A10124-24	WIRE, #24 SOLID BUSS	D
R960	A10266-5612	560. OHM .5W 5% CF T/R	A 4
R961	A10266-4712	470, 0.50W, 5%, CF	B 4
R962		DO NOT INSTALL	B 2
R963	A10265-10021		84
R964	A10265-10021	10. KOHM .25W 1 MF T/R	<u>B</u> 4
R965	A10265-10021	10. KOHM .25W 1 MF T/R	<u>B 4</u>
R966	A10265-10021	10. KOHM .25W 1 MF T/R	B 4
R967	A10265-10021		B 4
R968	A10265-10031	100. KOHM .25W 1 MF T/R	B 4
U930	C 7558-7	MC33079P QUAD LOW NOISE OP AMP	83
U931	C 7444-0	LM393 DUAL COMPARATOR	B 2
U932	C 7664-3	MOC3031 ZERO OPTO TRIAC	B 1
W1	101031-1	FASTON, TAB .250 PC MNT	D 4
W2	101031-1	FASTON, TAB .250 PC MNT	D_5
EW	101031-1	FASTON, TAB .250 PC MNT	D 2
W4	101031-1	FASTON, TAB .250 PC MNT	D 2
W5	101031-1	FASTON, TAB .250 PC MNT	 D 1
W6	101031-1	FASTON, TAB .250 PC MNT	D 1
W7	101031-1	FASTON, TAB .250 PC MNT	D 3
W8	101031-1	FASTON, TAB .250 PC MNT	D 1
9W9	101031-1	FASTON, TAB .250 PC MNT	D 2
W10	101031-1	FASTON, TAB .250 PC MNT	D 1
W1 1	101031-1	FASTON, TAB .250 PC MNT	DЭ
W12	101031-1	FASTON, TAB .250 PC MNT	D 2
W1 3	101031-1	FASTON, TAB .250 PC MNT	D 3
Z930		NOT USED	D 3
Z931		NOT USED	D 3
Z932		NOT USED	D 3
Z933		NOT USED	DЭ
Z934		NOT USED	DЗ
Z935		NOT USED	D 3
	INACT For Reference		
		CROWN INTERNATIO	PHONE (219) 294-
DRAWINGS	AND SPECIFICATIONS ARE WN INTERNATIONAL, INC. PRODUCED, COPIED, OR L R THE MANUFACTURE OR S DEVICES WITHOUT PERMI	AND DRAWN LCD 06/03/97 DWG. NO.	SHEET 4 OF 5



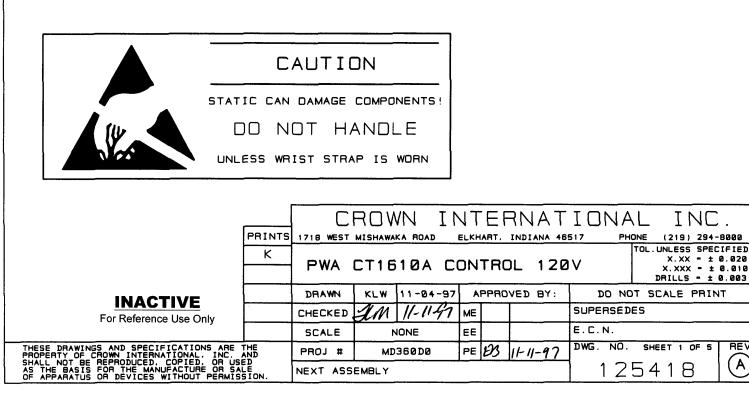
CT1610A Control Module 120V 125418 Information On Following Pages Documentation, Component Map, Schematic

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E.C.N.	ZUNE	HEV.	DESCRIPTION	DATE	BY	СНК	ME	ÊĒ	PE
		A	INITIAL RELEASE	11-04-97	KLW	JU			B
-									

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125423.
- 2. PRINTED WIRING BOARD PART NUMBER 125415-1.
- 3. PRINTED WIRING ASSEMBLY PART NUMBER 125418-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 7. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.

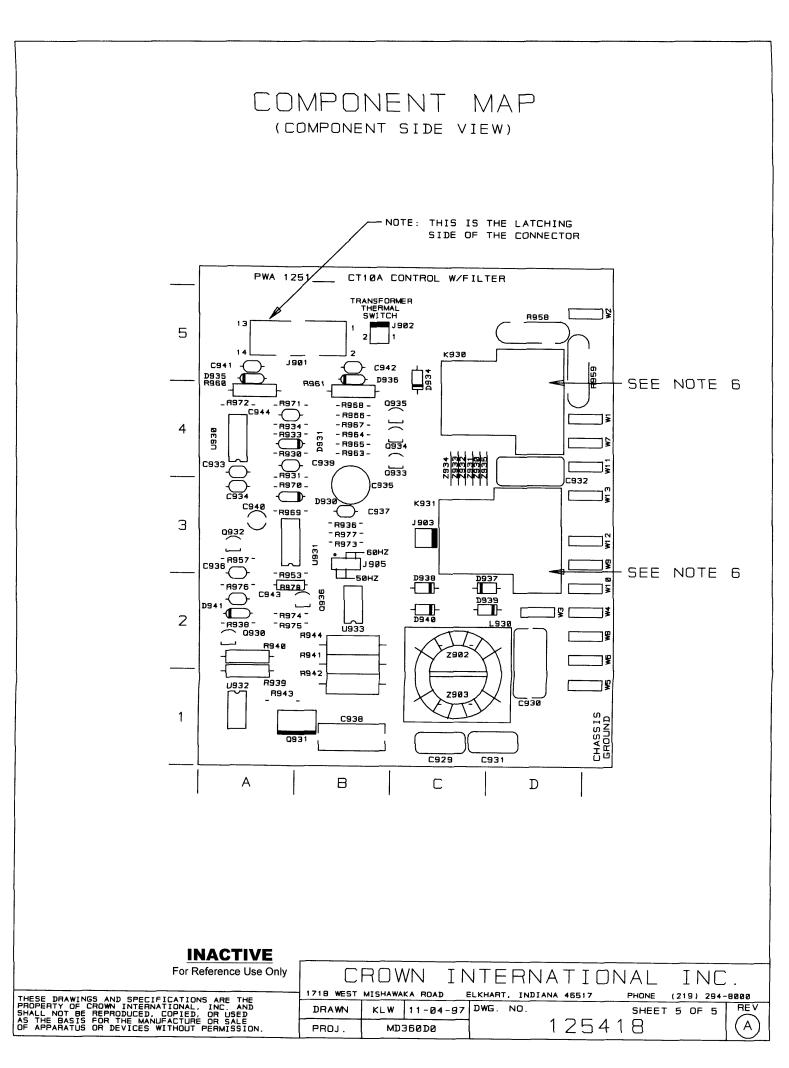


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	PARTS LIS	1	
<u>C.P.N.</u>	DESCRIPTION		REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	6"	R959, Z902, Z903
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,
A18265 12221			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM 0.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974, R976
A10266-4712	470 OHM 0.50W 5% CF	1	R961
A10266-5612	560 OHM 0.50W 5% CF T/R	1	R960
<u>C 2851-1</u> C 3181-2	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940
	DIODE, 1N4148 T/R	2	D930, D931
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D935, D936
<u>C 3549-0</u>	DIODE, ZENER 10V 1N5240B T/R	1	D941
C 3625-8	2N4125 30V PNP T/R	6	Q930,Q932,Q933,Q934,Q935,
	2016 FOV 204 NO VEDT T (Q936
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	<u>C933,C934,C936,C937,C941,</u>
	4785 200V 404 NDO 414 055		C942, C943
C 6812-9 C 7444-0	47PF 200V 10% NPO AXL CER	2	
	LM393 DUAL COMPARATOR		
<u>C 7636-1</u>	MC33078P DUAL LOW NOISE OP A		
<u>C 7665-0</u> C 7746-8	MOC3011 OPTO TRIAC 3POS SGLROW HDR .025 POST G	1	U932
<u> </u>	2POS 1 CENTER MTA HEADER TI	1	J905
C 8554-5	.22UF 250V 10% POLYESTER	2	1902, 1903 C928
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C938 C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR		U933
C 9592-4	.01 250VAC UL/CSA 20% FILM	4	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	
C 9930-6	11.8 OHM 3W 5% WW T/R	· · · ·	
C10325-6	2200.PF 250VAC 20% FILM Y2	2	R941, R942
C10325-8	1UF 250VAC 20% FILM Y2	2	C929, C931 C930
C10320-4	RELAY, 30A 24V T90 SEALED CE	1	
100445-1	NTC, INRUSH CURR LIMITER 3A	2	K930, K931
101031-1	FASTON, TAB .250 PC MNT	1	R958
101021-1	LAJION, TAD . 200 ML MNI	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
125106-1	MAC9D 8A 400V TRIAC		W10, W11, W12, W13
125158-1		1	Q931
125415-1	6.8K OHM 3W 5% WW T/R PWB, CT10A CONTROL.	1	R944
	PWB, CT10A CONTROL, , ,	1	
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E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA - NOT BE REPRODUCED. 4E BASIS FOR THE MANL PARATUS OR DEVICES W			LKHART, INDIANA 46517 PHONE (219) 294-E
- DHAWINGS AND SPECIF	ICATIONS ARE THE DRAWN KLW 11-		DWG. NO. SHEET 2 OF 5

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C929	C10325-6	2200.PF 250VAC 20% FILM Y2	
C930	C10326-4	.1UF 250VAC 20% FILM X2	
C931	C10325-6	2200.PF 250VAC 20% FILM Y2	
C932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
C933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C935	C 5311-3	22UF 50V 20% NP VERT T/A	
C936	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C938	C 8554-5	. 22UF 250V 10% POLYESTER	
C939	C 6812-9	47PF 200V 10% NPO AXL CER	
C940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
C941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C942	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C943	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C944	C 6812-9	47PF 200V 10% NPO AXL CER	
D930	C 3181-2	DIODE, 1N4148 T/R	
D931	C 3181-2	DIODE, 1N4148 T/R	
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
1902	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS .1 CENTER MTA HEADER TIN	
J905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
K930	C10335-5 C10335-5	RELAY, 30A 24V T90 SEALED CE	
K931		RELAY, 30A 24V T90 SEALED CE	
L930 0930	C 3625-8	OPEN	
		2N4125 30V PNP T/R	
2931 2932	125106-1 C 3625-8	MAC9D BAMP 400V TRIAC	
1932 2933	C 3625-8	2N4125 30V PNP T/R 2N4125 30V PNP T/R	
1933 1934	C 3625-8		
1934 1935	C 3625-8		
1935 0936	C 3625-8	2N4125 30V PNP T/R	
1930	A10265-10021	2N4125 30V PNP T/R	
1930 1931	A10265-20021	10K OHM 0.25W 1% MF T/R	
	A10265-10021	20K OHM 0.25W 1% MF T/R 10K OHM 0.25W 1% MF T/R	
7934 7936	A10265-20021 A10266-3351	20K OHM 0.25W 1% MF T/R	
		3.3M OHM 0.25W 5% CF25 T/R	
7938 7939	A10265-10021	10K OHM 0.25W 1% MF T/R	
7939 7940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
	A10266-2722 C 9930-6	2.7K OHM 0.50W 5% CF T/R	_
7941		11.8 OHM 3W 5% WW T/R	
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	
	For Reference		
DRAWINGS A	ND SPECIFICATIONS AR N INTERNATIONAL, INC RODUCED, COPIED, OR I THE MANUFACTURE OR DEVICES WITHOUT PERM	DRAWN KLW 11-04-97 DWG. NO.	PHONE (219) 294- SHEET 3 OF 5
NOT BE REP	RODUCED, COPIED, OR		0

REF DES	C. P. N	PARTS LIST DESCRIPTION	
R943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	MAP LOC.
R944	125158-1	6.8K OHM 3W 5% MF T/R	
7953	A10266-2051	2M OHM Ø.25W 5% CF T/R	
7957	A10265-10021	10K OHM 0.25W 1% MF T/R	
7958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
7959	A10124-24	WIRE, #24 SOLID BUSS	
7960	A10266-5612	560 OHM 0.50W 5% CF T/R	
R961	A10266-4712	470 OHM 0.50W 5% CF	
363		10K OHM 0.25W 1% MF T/R	
R964		10K OHM 0.25W 1% MF T/R	
7965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
7966		10K OHM 0.25W 1% MF T/R	
1967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
367 7968		100K OHM 0.25W 1% MF T/R	
R969		10K OHM 0.25W 1% MF T/R	-
1909 1970		12.1K OHM 0.25W 1% CF25 T/R	
1970 7971		12.1K OHM 0.25W 1% CF25 1/R	
1972	A10265-10021	10K OHM 0.25W 1% OF T/R	
1 <u>372</u> 7973	A10265-1241	120K OHM 0.25W 5% CF T/R	
373 3974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
374 7975		10K OHM 0.25W 1% MF T/R	
R976	A10266-4321	4.3K OHM Ø.25W 5% CF T/R	
1 <u>970</u> 1977	A10265-60431	604K OHM 0.25W 1% MF T/R	
1978	A10265-20011		
1930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
J931	C 7444-0	LM393 DUAL COMPARATOR	
J932	C 7665-0	MOC3011 OPTO TRIAC	
J933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W1	101031-1	FASTON, TAB . 250 PC MNT	
N2	101031-1	FASTON, TAB . 250 PC MNT	
м <u>а</u>	101031-1	FASTON, TAB . 250 PC MNT	
N4	101031-1	FASTON, TAB . 250 PC MNT	
N5	101031-1	FASTON, TAB . 250 PC MNT	-
W6	101031-1	FASTON, TAB . 250 PC MNT	
N7	101031-1	FASTON, TAB . 250 PC MNT	
W8	101031-1	FASTON, TAB . 250 PC MNT	
N9	101031-1	FASTON, TAB . 250 PC MNT	
W1 Ø	101031-1	FASTON, TAB . 250 PC MNT	
V1 1	101031-1	FASTON, TAB . 250 PC MNT	
V1 2	101031-1	FASTON, TAB . 250 PC MNT	
V1 3	101031-1	FASTON, TAB . 250 PC MNT	
2902	A10124-24	WIRE, #24 SOLID BUSS	
2903	A10124-24	WIRE, #24 SOLID BUSS	
2930		OPEN	
2931		OPEN	
2932		OPEN	
2933		OPEN	
2934		OPEN	
2935		OPEN	
	125415-1	PWB, CT10A CONTROL, ,	
	For Reference		
DRAWINGS A RTY OF CROW	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR U THE MANUFACTURE OR S DEVICES WITHOUT PERMI		PHONE (219) 294- SHEET 4 OF 5

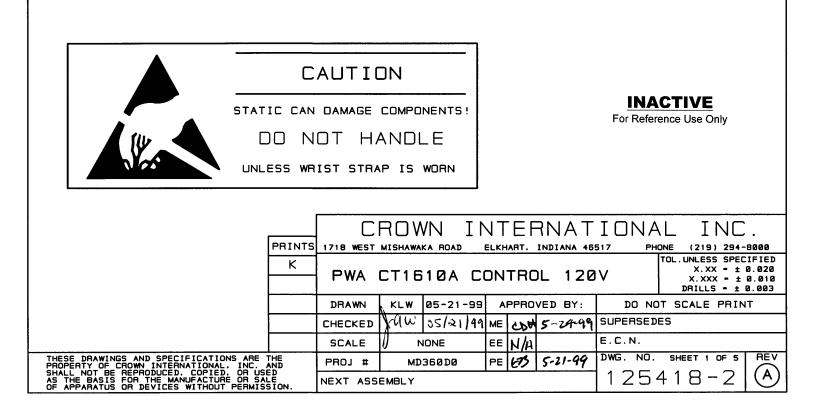


TRANE			DATE		A	PPR	JVAL	S
. ZUNE	HEV.	DESCRIPTION	DATE	61	СНК	СМ	EE	PE
4	A	INITIAL RELEASE FOR PRODUCTION.	05-21-99	KLW	jau	JmL	NA	Ø
					V			
	4 ZONE	4 A				. ZONE REV. DESCRIPTION DATE BY CHK	. ZONE REV. DESCRIPTION DATE BY CHK/CM	

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 125423.
- 2. PRINTED WIRING BOARD PART NUMBER 125415-1.
- 3. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 4. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 5. THE VENT HOLE ON TOP OF THE RELAY K930 AND K931 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.
- 6. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL BE PERMANENT.
- 7. SOLDER C945 (C 6806-1) ACROSS R976 AS SHOWN ON THE COMPONENT MAP.

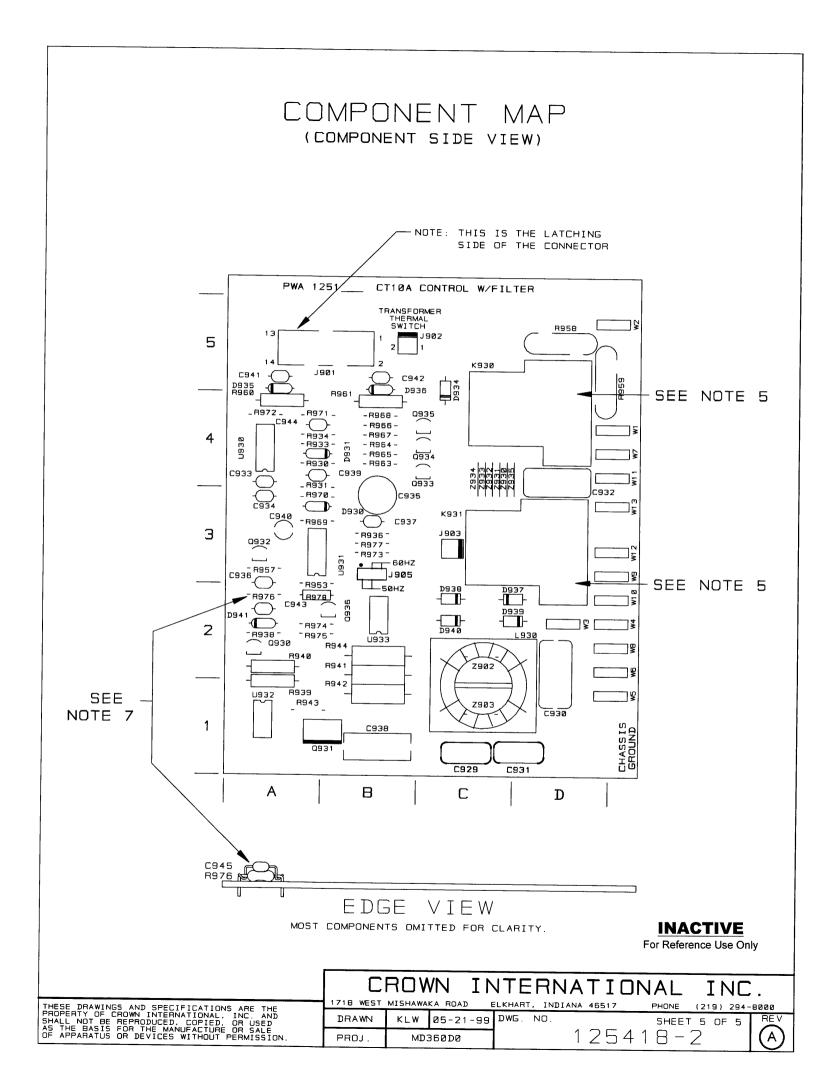


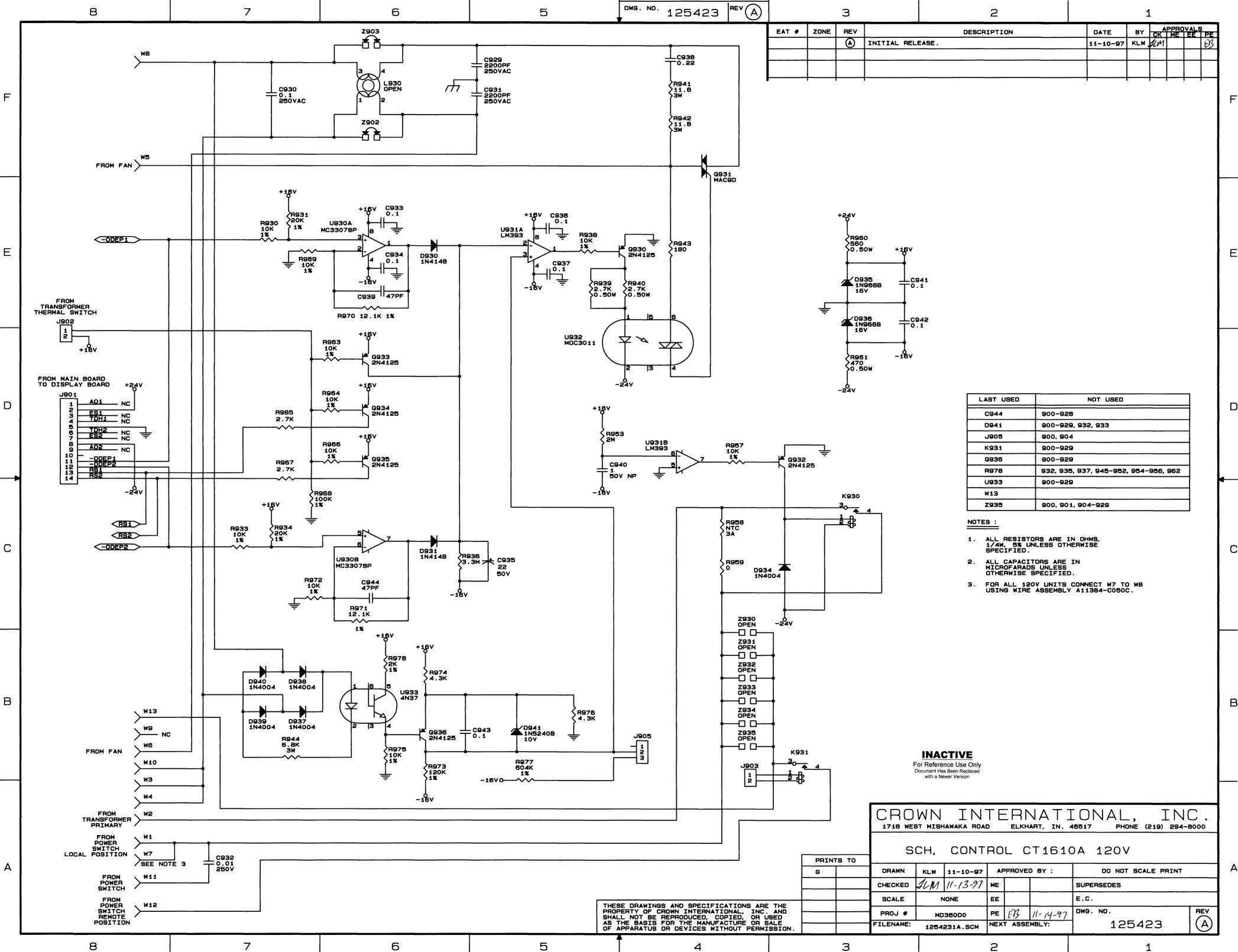
	PARTS LIS	<u> </u>	
C.P.N.	DESCRIPTION	QTY	REFERENCE DESIGNATION
A10124-24	WIRE, #24 SOLID BUS	6"	R959,Z902,Z903
A10265-10021	10K OHM 0.25W 1% MF T/R	10	R930, R933, R938, R957, R963,
			R964, R966, R969, R972, R975
A10265-10031	100K OHM 0.25W 1% MF T/R	1	R968
A10265-12121	12.1K OHM 0.25W 1% MF T/R	2	R970, R971
A10265-20011	2K OHM 0.25W 1% MF T/R	1	R978
A10265-20021	20K OHM 0.25W 1% MF T/R	2	R931, R934
A10265-60431	604K OHM 0.25W 1% MF T/R	1	R977
A10266-1241	120K OHM 0.25W 5% CF T/R	1	R973
A10266-1811	180 OHM 0.25W 5% CF25 T/R	1	R943
A10266-2051	2M OHM Ø.25W 5% CF T/R	1	R953
A10266-2721	2.7K OHM 0.25W 5% CF T/R	2	R965, R967
A10266-2722	2.7K OHM 0.50W 5% CF T/R	2	R939, R940
A10266-3351	3.3M OHM 0.25W 5% CF T/R	1	R936
A10266-4321	4.3K OHM 0.25W 5% CF T/R	2	R974, R976
A10266-4712	470 OHM 0.50W 5% CF		R961
A10266-5612	560 OHM 0.50W 5% CF T/R		R960
<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/	5	D934, D937, D938, D939, D940
<u>C 3181-2</u>	DIODE, 1N4148 T/R	2	D930, D931
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	2	D935,D936
C 3549-0	DIODE, ZENER 10V 1N5240B T/R		D941
C 3625-8	2N4125 30V PNP T/R	6	Q930,Q932,Q933,Q934,Q935,
			Q936
<u>C 5311-3</u>	22UF 50V 20% NP VERT T/A	1	C935
C 6804-6	.1UF 50V AXIAL CER T/R 104	7	C933,C934,C936,C937,C941,
			C942,C943
C 6806-1	.01UF 100V AXIAL CER T/R	1	C945
C 6812-9	47PF 200V 10% NPO AXL CER	2	C939, C944
C 7444-0	LM393 DUAL COMPARATOR	1	U931
C 7636-1	MC33078P DUAL LOW NOISE OP A	1	U930
C 7665-0	MOC3011 OPTO TRIAC	1	U932
C 7746-8	3POS SGLROW HDR .025 POST G	1	J905
C 7873-0	2POS .1 CENTER MTA HEADER TI	2	J902, J903
C 8554-5	.22UF 250V 10% POLYESTER	1	C938
C 8894-5	1UF 50V VERT 10% NP ELECT T/	1	C940
C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	1	U933
C 9592-4	.01 250VAC UL/CSA 20% FILM	1	C932
C 9885-2	14PIN DUAL ROW HDR .1 X.1 CT	1	J901
C 9930-6	11.8 OHM 3W 5% WW T/R	2	R941, R942
C10325-6	2200.PF 250VAC 20% FILM Y2	2	C929, C931
C10326-4	.1UF 250VAC 20% FILM 12		
<u>C10335-5</u>	RELAY, 30A 24V T90 SEALED CE	2	K930, K931
100445-1	NTC, INRUSH CURR LIMITER 3A	1	R958
101031-1	FASTON, TAB .250 PC MNT	13	W1, W2, W3, W4, W5, W6, W7, W8, W9,
			W10,W11,W12,W13
125106-1	MAC9D 8A 400V TRIAC	1	Q931
125158-1	6.8K OHM 3W 5% WW T/R	1	R944
125415-1	PWB, CT10A CONTROL, , ,	1	

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	1718 WEST	MISHAWA	KA ROAD	ELKHART. IN	DIANA 46517	PHONE	(219) 294-	-8000
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED. COPIED. OR USED	DRAWN	KLW	05-21-99	DWG. NO.		SHEET	2 OF 5	REV
AN THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	MD	360D0		1254	18-2	2	(A)

REF DES	SC.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C929	C10325-6	2200.PF 250VAC 20% FILM Y2	
2930	C10326-4	.1UF 250VAC 20% FILM X2	
2931	C10325-6	2200.PF 250VAC 20% FILM Y2	
2932	C 9592-4	.01 250VAC UL/CSA 20% FILM	
2933	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2934	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2935	C 5311-3	22UF 50V 20% NP VERT T/A	
2936	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2937	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2938	C 8554-5	.22UF 250V 10% POLYESTER	
2939	C 6812-9	47PF 200V 10% NPO AXL CER	
2940	C 8894-5	1UF 50V VERT 10% NP ELECT T/R	
2941	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2942	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2943	C 6804-6	.1UF 50V AXIAL CER T/R 104	
2944	C 6812-9	47PF 200V 10% NPO AXL CER	
2945	C 6806-1	.01UF 100V AXIAL CER T/R	
0550	C 3181-2	DIODE, 1N4148 T/R	
D931	C 3181-2	DIODE, 1N4148 T/R	
D934	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D935	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D936	C 3533-4	DIODE, 1N966B 16V ZENER T/R	
D937	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D938	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D939	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D940	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D941	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	
J901	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	
J902	C 7873-0	2POS . 1 CENTER MTA HEADER TIN	
1903	C 7873-0	2POS . 1 CENTER MTA HEADER TIN	
1905	C 7746-8	3POS SGLROW HDR .025 POST GOLD	
<930	C10335-5	RELAY, 30A 24V T90 SEALED CE	
<931	C10335-5	RELAY, 30A 24V T90 SEALED CE	
_930		OPEN	
2930	C 3625-8	2N4125 30V PNP T/R	
2931	125106-1	MAC9D BAMP 400V TRIAC	
2932	C 3625-8	2N4125 30V PNP T/R	
2933	C 3625-8	2N4125 30V PNP T/R	
2934	C 3625-8	2N4125 30V PNP T/R	
1935	C 3625-8	2N4125 30V PNP T/R	
2936	C 3625-8	2N4125 30V PNP T/R	
930	A10265-10021	10K OHM 0.25W 1% MF T/R	
7931	A10265-20021	20K OHM 0.25W 1% MF T/R	
2933	A10265-10021	10K OHM 0.25W 1% MF T/R	
7934	A10265-20021	20K OHM 0.25W 1% MF T/R	
7936	A10266-3351	3.3M OHM 0.25W 5% CF25 T/R	
8562	A10265-10021	10K OHM 0.25W 1% MF T/R	
939	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7940	A10266-2722	2.7K OHM 0.50W 5% CF T/R	
7941	C 9930-6	11.8 OHM 3W 5% WW T/R	
7942	C 9930-6	11.8 OHM 3W 5% WW T/R	
	For Reference Use AND SPECIFICATIONS AR OWN INTERNATIONAL, INC EPRODUCED, COPIED, OR OR THE MANUFACTURE OR R DEVICES WITHOUT PERM		PHONE (219) 294-

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
7943	A10266-1811	180 OHM 0.25W 5% CF25 T/R	
7944	125158-1	6.8K OHM 3W 5% MF T/R	
7953	A10266-2051	2M OHM 0.25W 5% CF T/R	
7957	A10265-10021	10K OHM 0.25W 1% MF T/R	
7958	100445-1	NTC, INRUSH CURRENT LIMITER 3A	
7959	A10124-24	WIRE, #24 SOLID BUSS	
7960	A10266-5612	560 OHM 0.50W 5% CF T/R	
7961	A10266-4712	470 OHM 0.50W 5% CF	
7963	A10265-10021	10K OHM 0.25W 1% MF T/R	
7964	A10265-10021	10K OHM 0.25W 1% MF T/R	
R965	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
7966	A10265-10021	10K OHM 0.25W 1% MF T/R	
7967	A10266-2721	2.7K OHM 0.25W 5% CF T/R	
7968	A10265-10031	100K OHM 0.25W 1% MF T/R	
969		10K OHM 0.25W 1% MF T/R	
7970	A10265-12121		
7971		12.1K OHM 0.25W 1% CF25 T/R	
7972		10K OHM 0.25W 1% MF T/R	
7973	A10266-1241	120K OHM 0.25W 5% CF T/R	
7974	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
R975	A10265-10021	10K OHM 0.25W 1% MF T/R	
R976	A10266-4321	4.3K OHM 0.25W 5% CF T/R	
<u> 7977</u>		604K OHM 0.25W 1% MF T/R	
R978	A10265-20011		
1930	C 7636-1	MC33078P DUAL LOW NOISE OP AMP	
J931	C 7444-0	LM393 DUAL COMPARATOR	
1932	C 7665-0	MOC3011 OPTO TRIAC	
1933	C 9255-8	4N37 PHOTOXSISTOR OPTO ISOLR	
W1	101031-1	FASTON, TAB . 250 PC MNT	
N2 N3	101031-1	FASTON, TAB .250 PC MNT FASTON, TAB .250 PC MNT	
N4	101031-1	FASTON, TAB . 250 PC MNT	·
N5	101031-1	FASTON, TAB . 250 PC MNT	
N6	101031-1	FASTON, TAB . 250 PC MNT	
N7	101031-1	FASTON, TAB . 250 PC MNT	
N8	101031-1	FASTON, TAB . 250 PC MNT	
N9	101031-1	FASTON, TAB . 250 PC MNT	
N10	101031-1	FASTON, TAB . 250 PC MNT	
W1 1	101031-1	FASTON, TAB .250 PC MNT	
W12	101031-1	FASTON, TAB . 250 PC MNT	
W1 3	101031-1	FASTON, TAB . 250 PC MNT	-
Z902	A10124-24	WIRE, #24 SOLID BUSS	-
Z903	A10124-24	WIRE, #24 SOLID BUSS	
Z930		OPEN	
Z931		OPEN	
Z932		OPEN	
z933		OPEN	
Z934		OPEN	
Z935		OPEN	-1
	125415-1	PWB, CT10A CONTROL, ,	
	INACTI		
	For Reference Us ND SPECIFICATIONS ARE ND INTERNATIONAL, INC. PRODUCED, COPIED, OR L R THE MANUFACTURE OR S DEVICES WITHOUT PERMI		PHONE (219) 294-





CT10 Display Module Information On Following Pages Documentation, Component Map, Schematic

CROV	VN I	NTE	RN	ATI	ON/	ЧL	INAC For Reference	TIVE ce Use Only	100	281
REVISION		A		TITLE:	PWA, (CT10	DISPLA	Y	PRINTS	к
MADE BY	TOM S	ZERENCS	E						SHEET NO.	1
DATE	08-	07-96							CONT.ON S	H 2
PROJ.	D	360		FIRST N	ADE FO	R: CT1	Ø SER	IES	DRAWN	TLM
									CUMENTS	
REFERENCE				NER OF T	HIS SHEE	T IS THE	REVISION	FOR THE	ENTIRE DOCUM	ENT
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CROWN INTERN	OF APP/	ARATUS OR	DEVICE	S WITHOU	IT PERMIS	SION.	MFG			
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CROV	VN I	INTER	NATI	DNAL INACTIVE For Reference Use Only	1002	81
REVISION		Α	TITLE: PV	VA, CT10 DISPLAY	PRINTS	к
MADE BY	том	SZERENCSE			SHEET NO.	2
DATE	ØE	3-07-96	_		CONT.ON SH	3
PROJ.		D360	FIRST MAD	DE FOR: CT10 SERIES	DRAWN	TLM
		REVI		ITROL INFORMATION		<u> </u>
NAN PAT WI		SHEET NO. 1-7	SHEET REV.	INITIAL RELEASE		
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UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 100282.
- 2. PWB PART NUMBER 100280-1.
- 3. PWA PART NUMBER 100281-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES AT REFERENCE DESIGNATION LOCATIONS J900. SEE COMPONENT MAP.
- 7. INSTALL J900 ON THE SOLDER SIDE OF THE BOARD. SEE COMPONENT MAP.



N	A	C.	ΓI	V	Έ	
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For Reference Use Only

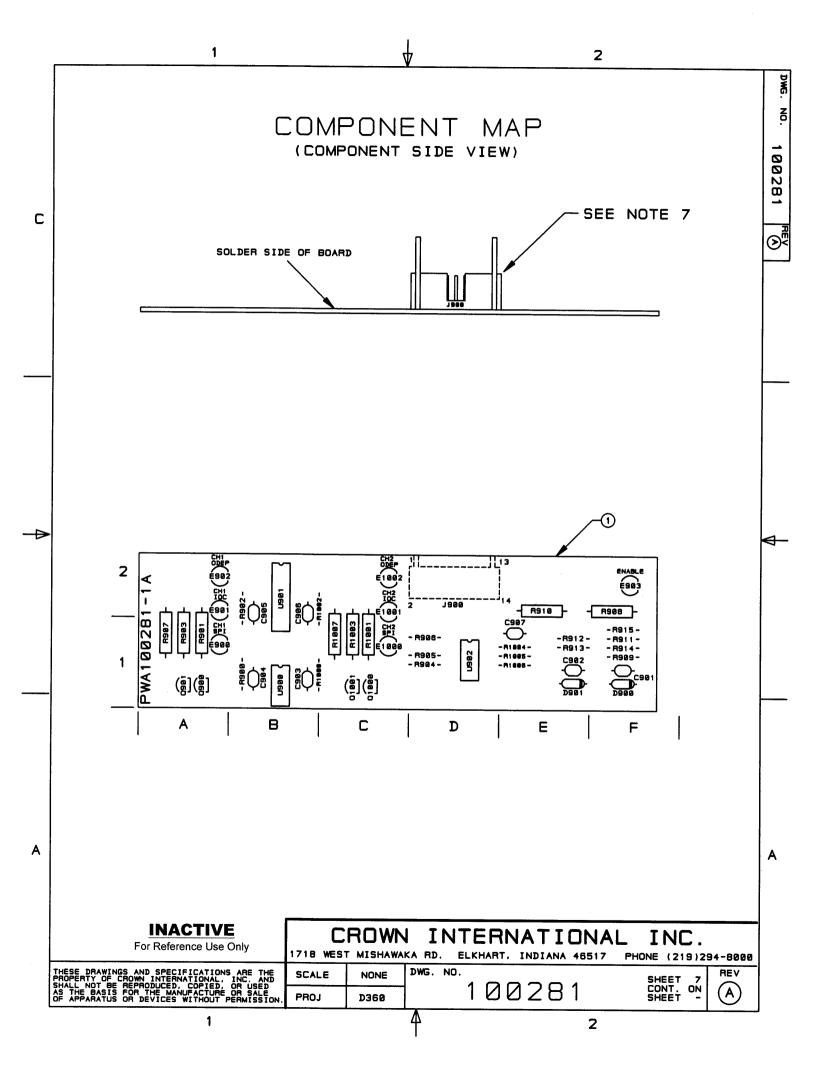
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AND Shall Not be reproduced. Copied, or used	DRA
AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PRC

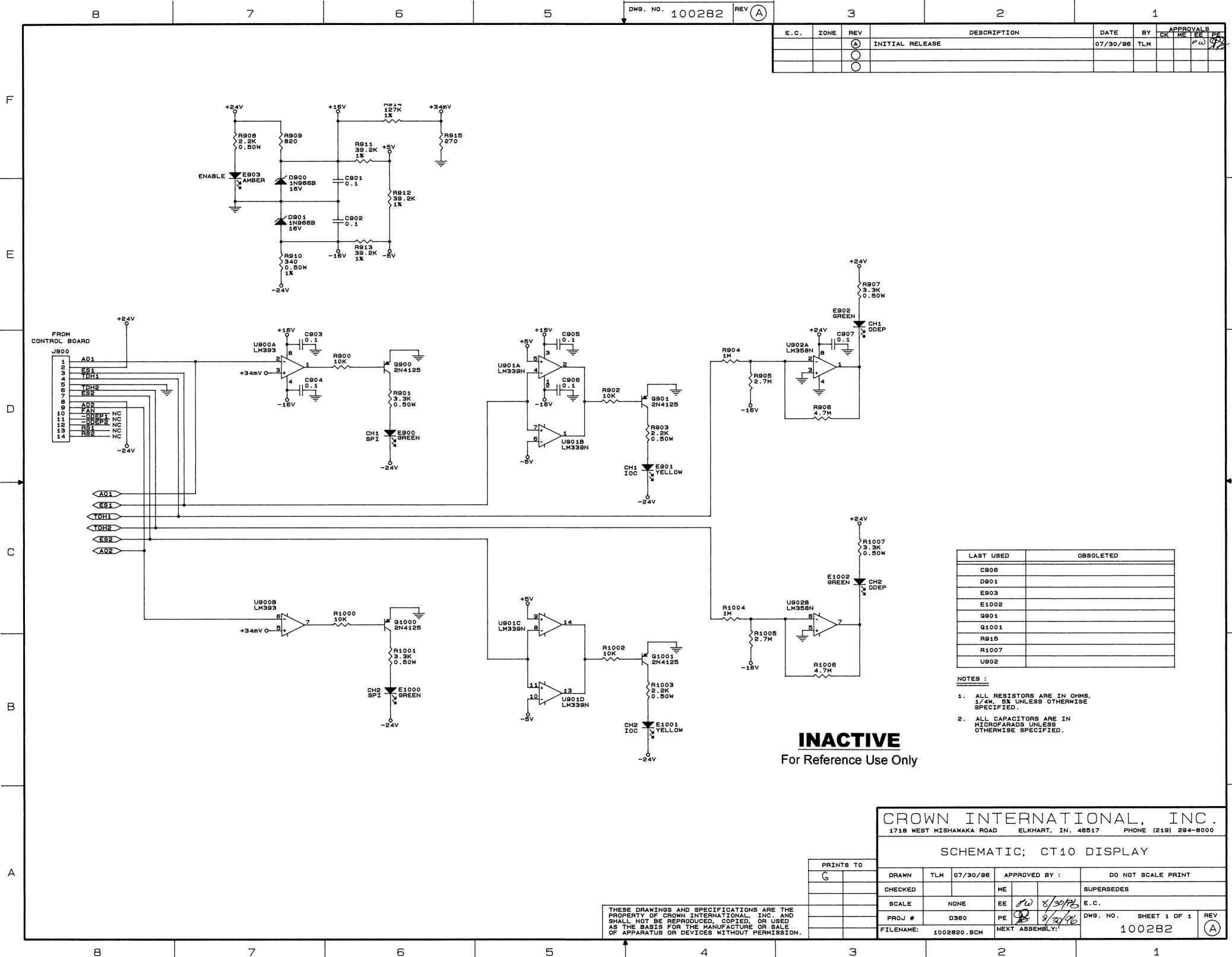
CROWN INTERNATIONAL INC. 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-8000 DRAWN TLM 08-06-96 DWG. NO. PROJ. D360 100281 SHEET 3 CONT. ON SHEET 4 A

	PARTS LIS	Т	
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
100282-1	PWB, CT10 DISPLAY, , ,	1	1
A10265-12731		1	R914
A10265-34002	340. OHM .5W 1% MF T/R	1	R910
A10265-39221	39.2KOHM .25W 1% MF T/R	3	R911,R912,R913
A10266-1031	10. KOHM 25W 5% CF T/R	4	R1000,R1002,R900,R902
A10266-1051	1.0 MOHM .25W 5 CF T/R	2	R1004, R904
A10266-2222	2.2 KOHM .5W 5% CF T/R	3	R1003, R903, R908
A10266-2711	270. OHM .25W 5% CF T/R		R915
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R1005, R905
A10266-3322	3.3 KOHM .5W 5% CF T/R	4	R1001,R1007,R901,R907
A10266-4751	4.7 MOHM .25W 5 CF T/R	2	R1006, R906
A10266-8211	820. OHM .25W 5% CF T/R	1	R909
<u>C 3533-4</u>	DIODE, 1N966B 16V ZENER T/R	2	D900, D901
C 3625-8	2N4125 30V PNP T/R	4	Q1000,Q1001,Q900,Q901
<u>C 4345-2</u>	LM339N VOLT COMPARATOR	1	U901
<u>C 6804-6</u>	.1UF 50V AXIAL CER T/R 104	7	C901,C902,C903,C904,C905,
<u> </u>			C906, C907
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	U900
<u>C 7661-9</u>	LM358N DUAL OP AMP	1	U902
C 9885-2	14PIN DUAL ROW HDR . 1 X.1 CT	1	00eL
D 9117-9	LED, T 1.75 GREEN T/R	4	
D 9118-7 D 9119-5	LED, T 1.75 YELLOW T/R		
	LED, T 1.75 ORANGE T/R	1	E903
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	For Reference Use Only	IN	NTERNATIONAL INC
	1718 WEET MICHAWAKA D		ELKHART, INDIANA 46517 PHONE (219) 294-8
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA L NOT BE REPRODUCED. HE BASIS FOR THE MANU PPARATUS OR DEVICES W	TIONAL, INC. AND DRAWN TLM 08- COPIED, OR USED	06-96	DWG. NO. SHEET 4

	C.P.N.	PARTS LIST DESCRIPTION	
<u>ner des</u> 1	100282-1	PWB, CT10 DISPLAY, , ,	MAP LOC.
, C901	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C902	C 6804-6	.1UF 50V AXIAL CER T/R 104	<u> </u>
C903	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C904	C 6804-6	.1UF 50V AXIAL CER T/R 104	
C905	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C906	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
 C907	C 6804-6	.1UF 50V AXIAL CER T/R 104	E 1
D900	C 3533-4	DIODE, 1N966B 16V ZENER T/R	F 1
D901	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 1
E900	D 9117-9	LED, T 1.75 GREEN T/R	A 1
E901	D 9118-7	LED, T 1.75 YELLOW T/R	A 2
E902	D 9117-9	LED, T 1.75 GREEN T/R	A 2
E903	D 9119-5	LED, T 1.75 ORANGE T/R	F 2
E1000	D 9117-9	LED, T 1.75 GREEN T/R	
E1001	D 9118-7	LED, T 1.75 YELLOW T/R	C 2
E1002	D 9117-9	LED, T 1.75 GREEN T/R	C 2
1900	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	D 2
0900	C 3625-8	2N4125 30V PNP T/R	A 1
Q901	C 3625-8	2N4125 30V PNP T/R	A 1
01000	C 3625-8	2N4125 30V PNP T/R	C 1
01001	C 3625-8	2N4125 30V PNP T/R	C 1
R900	A10266-1031	10. KOHM .25W 5% CF T/R	B 1
R901	A10266-3322	3.3 KOHM .5W 5% CF T/R	A 1
R902	A10266-1031	10. KOHM .25W 5% CF T/R	B 2
2903	A10266-2222	2.2 KOHM .5W 5% CF T/R	A 1
7904	A10266-1051	1.0 MOHM .25W 5 CF T/R	D 1
7905	A10266-2751	2.7 MOHM .25W 5% CF T/R	D 1
7906	A10266-4751	4.7 MOHM .25W 5 CF T/R	D 1
7907	A10266-3322	3.3 KOHM .5W 5% CF T/R	A 1
3908	A10266-2222	2.2 KOHM .5W 5% CF T/R	F 2
909	A10266-8211	820. OHM .25W 5% CF T/R	F 1
7910	A10265-34002	340. OHM .5W 1% MF T/R	E 2
7911	A10265-39221	39.2KOHM .25W 1% MF T/R	F 1
7912	A10265-39221	39.2KOHM .25W 1% MF T/R	E 1
7913	A10265-39221	39.2KOHM .25W 1% MF T/R	E 1
7914	A10265-12731	127 KOHM . 25W 1 MF T/R	F 1
7915	A10266-2711	270. OHM .25W 5% CF T/R	F 1
R1000	A10266-1031	10. KOHM .25W 5% CF T/R	C 1
1001	A10266-3322	3.3 KOHM .5W 5% CF T/R	C 1
1002	A10266-1031	10. KOHM .25W 5% CF T/R	С 2
1003	A10266-2222	2.2 KOHM .5W 5% CF T/R	C 1
R1004	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 1
1005	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 1
71006	A10266-4751	4.7 MOHM .25W 5 CF T/R	E 1
1007	A10266-3322	3.3 KOHM .5W 5% CF T/R	C 1
1900	C 7444-0	LM393 DUAL COMPARATOR	B 1
	INACTI For Reference U		AL INC
DRAWINGS	FOR Reference C IND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294- SHEET 5

REF DES		DESCRIF		ARTS LIST			1	
								MAP LOC.
J901	C 4345-2			MPARATOR				B 2
J902	C 7661-9	LM358N	DUAL OP	AMP				D 1
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E903	
E1002	
Q901	
G1001	
R915	
R1007	
0902	

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CT10A Display Module 102682 Information On Following Pages Documentation, Component Map, Schematic

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ATE	···· · · · · · · · · · · · · · · · · ·	Α	TITLE: PV	A, CT'10A DI	SPLAY	PRINTS	κ
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ROJ.	05·	-27-97				CONT. ON SH	З
	MD	360D0	FIRST MAI	E FOR: CT'10A	DRAWN	TLM	
		REVI	SION CON	TROL INFORMA	TION	·	
NAM	E	SHEET NO.	SHEET REV.	ACTION			·
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UNLESS OTHERWISE SPECIFIED. THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102684.
- 2. PWB PART NUMBER 102683-1.
- 3. PWA PART NUMBER 102682-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES AT REFERENCE DESIGNATION LOCATIONS J900. SEE COMPONENT MAP.
- 7. INSTALL J900 ON THE SOLDER SIDE OF THE BOARD. SEE COMPONENT MAP.

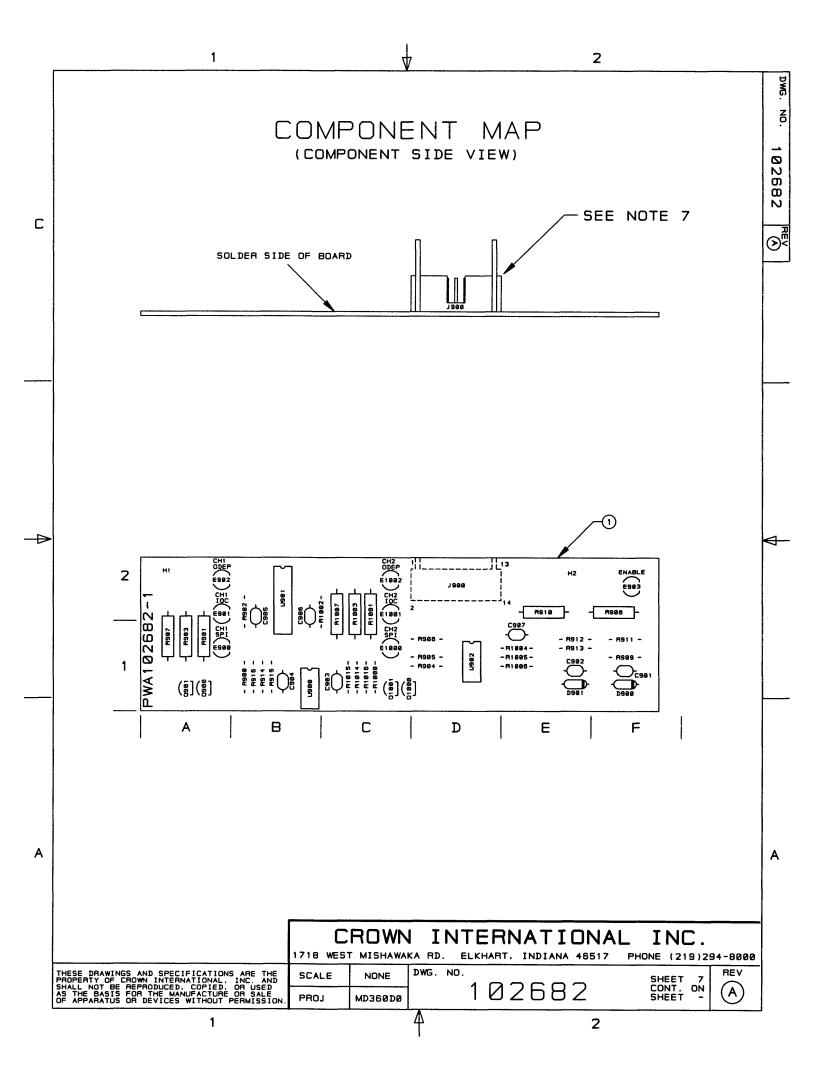


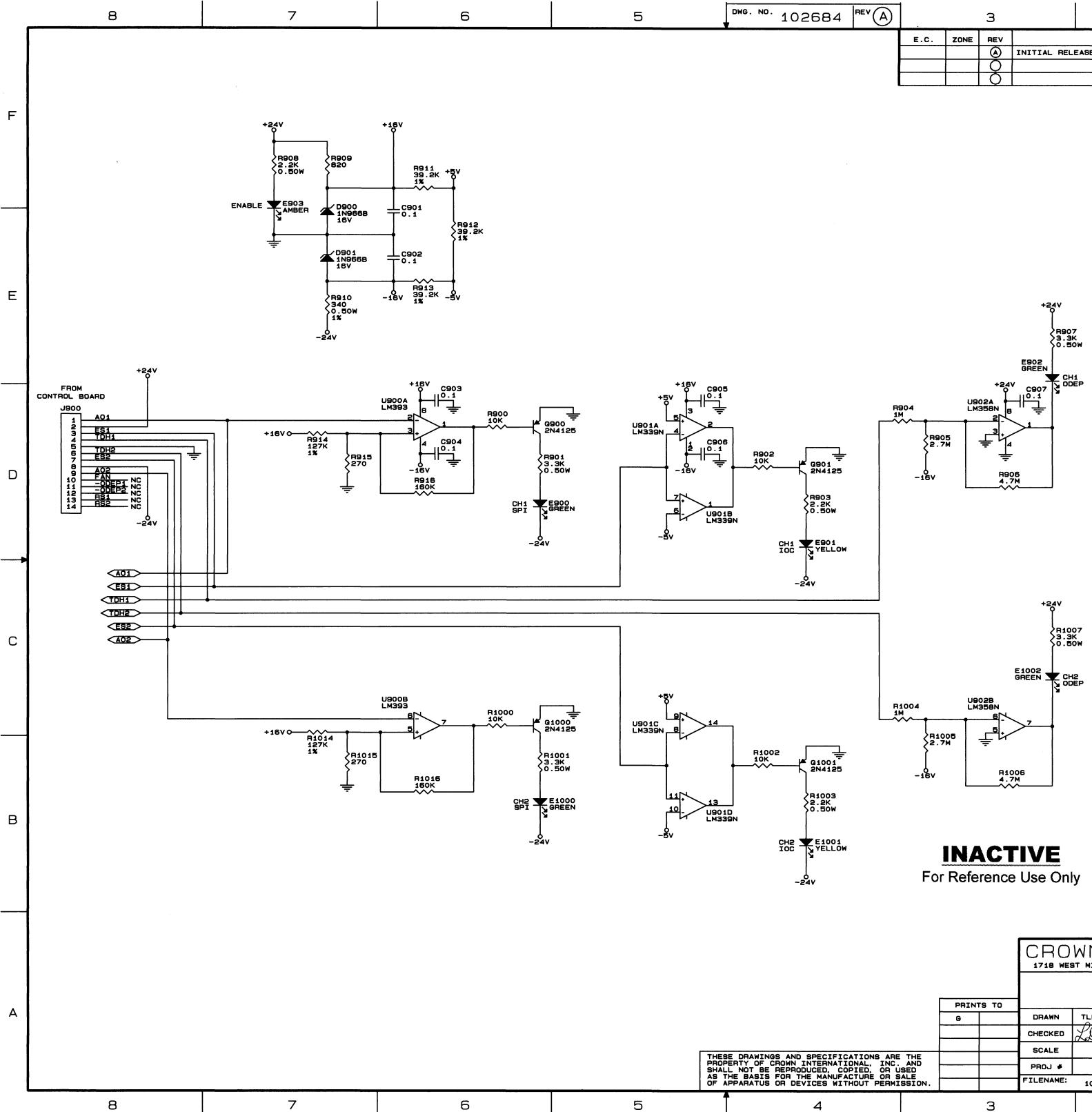
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THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED, COPIED, OR USED	1718 WEST DRAWN	MISHAWA TLM	T	DWG. NO.	46517 PHONE	(219) 294- SHEET 3	-8000 REV
AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	MD	360D0	102	682	CONT. ON SHEET 4	(A) $ $

<u> </u>	PARTS LIS	1	
C.P.N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
102683-1	PWB, CT'10A DISPLAY, , ,	1	1
A10265-12731		2	R1014, R914
A10265-34002	340. OHM .5W 1% MF T/R	1	R910
A10265-39221	39.2KOHM .25W 1% MF T/R	3	R911, R912, R913
A10266-1031	10. KOHM 25W 5% CF T/R	4	R1000, R1002, R900, R902
A10266-1051	1.0 MOHM .25W 5 CF T/R	2	R1004, R904
A10266-1641	160.KOHM .25W 5% CF T/R	2	R1016, R916
A10266-2222	2.2 KOHM .5W 5% CF T/R	3	R1003, R903, R908
A10266-2711	270. OHM . 25W 5% CF T/R	2	R1015, R915
A10266-2751	2.7 MOHM .25W 5% CF T/R	2	R1005, R905
A10266-3322	3.3 KOHM .5W 5% CF T/R	4	R1001, R1007, R901, R907
A10266-4751	4.7 MOHM .25W 5 CF T/R	2	R1006, R906
A10266-8211	820. OHM .25W 5% CF T/R	1	R909
C 3533-4	DIODE, 1N966B 16V ZENER T/R	2	D900, D901
C 3625-8	2N4125 30V PNP T/R	4	Q1000,Q1001,Q900,Q901
C 4345-2	LM339N VOLT COMPARATOR	1	U901
C 6804-6	1UF 50V AXIAL CER T/R 104	7	C901,C902,C903,C904,C905,
			C906, C907
<u>C 7444-0</u>	LM393 DUAL COMPARATOR	1	0900
<u>C 7661-9</u>	LM358N DUAL OP AMP	1	U902
C 9885-2	14PIN DUAL ROW HDR . 1 X.1 CT	1	00et
D 9117-9	LED, T 1.75 GREEN T/R	4	E1000,E1002,E900,E902
D 9118-7	LED, T 1.75 YELLOW T/R	2	E1001,E901
D 9119-5	LED, T 1.75 ORANGE T/R	1	E903
E DRAWINGS AND SPECIF ERTY OF CROWN INTERNA L NOT BE REPRODUCED. HE BASIS FOR THE MANU PPARATUS OR DEVICES W	ICATIONS ARE THE		NTERNATIONAL INC. LKHART. INDIANA 46517 PHONE (219) 294-B DWG. NO. 102682 SHEET 4 CONT. ON SHEET 5

REF DES	C. P. N.	DESCRIPTION	MAP LOC.
1	102683-1	PWB, CT ⁷ 10A DISPLAY, , ,	
C901	C 6804-6	.1UF 50V AXIAL CER T/R 104	F 1
C902	C 6804-6	.1UF 50V AXIAL CER T/R 104	E 1
C903	C 6804-6	.1UF 50V AXIAL CER T/R 104	C 1
C904	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 1
C905	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C906	C 6804-6	.1UF 50V AXIAL CER T/R 104	B 2
C907	C 6804-6	.1UF 50V AXIAL CER T/R 104	E 1
D900	C 3533-4	DIODE, 1N966B 16V ZENER T/R	F 1
D901	C 3533-4	DIODE, 1N966B 16V ZENER T/R	E 1
E900	D 9117-9	LED, T 1.75 GREEN T/R	A 1
E901	D 9118-7	LED, T 1.75 YELLOW T/R	A 2
E902	D 9117-9	LED, T 1.75 GREEN T/R	A 2
E903	D 9119-5	LED, T 1.75 ORANGE T/R	F 2
E1000	D 9117-9	LED, T 1.75 GREEN T/R	C 1
E1001	D 9118-7	LED, T 1.75 YELLOW T/R	C 2
E1002	D 9117-9	LED, T 1.75 GREEN T/R	C 2
1900 1900	C 9885-2	14PIN DUAL ROW HDR .1 X.1 CTR	D 2
Q900	C 3625-8	2N4125 30V PNP T/R	A 1
0901	C 3625-8	2N4125 30V PNP T/R	A 1
Q1000	C 3625-8	2N4125 30V PNP T/R	C 1
01001	C 3625-8	2N4125 30V PNP T/R	C 1
R900	A10266-1031	10. KOHM .25W 5% CF T/R	B 1
R901	A10266-3322	3.3 KOHM .5W 5% CF T/R	A 1
R902	A10266-1031	10. KOHM .25W 5% CF T/R	B 2
R903	A10266-2222	2.2 KOHM .5W 5% CF T/R	A 1
R904	A10266-1051	1.0 MOHM .25W 5 CF T/R	D 1
R905	A10266-2751	2.7 MOHM .25W 5% CF T/R	D 1
R906	A10266-4751	4.7 MOHM .25W 5 CF T/R	D 1
R907	A10266-3322	3.3 KOHM .5W 5% CF T/R	A 1
7908 7908	A10266-2222	2.2 KOHM .5W 5% CF T/R	F 2
R909	A10266-8211		F 1
R910	A10265-34002		E 2
R911	A10265-39221	39.2KOHM .25W 1% MF T/R	F 1
R912	A10265-39221	39.2KOHM .25W 1% MF T/R	E 1
R913	A10265-39221	39.2KOHM .25W 1% MF T/R	E 1
R914	A10265-12731	127 KOHM . 25W 1 MF T/R	B 1
R915	A10266-2711	270. OHM . 25W 5% CF T/R	<u>B 1</u>
7916	A10266-1641	160.KOHM .25W 5% CF T/R	81
1000	A10266-1031	10. KOHM . 25W 5% CF T/R	<u> </u>
71001	A10266-3322	3.3 KOHM .5W 5% CF T/R	C 2
1002	A10266-1031	10. KOHM . 25W 5% CF T/R	C 2
1003	A10266-2222	2.2 KOHM .5W 5% CF T/R	С 2
R1004	A10266-1051	1.0 MOHM .25W 5 CF T/R	<u>E 1</u>
1005	A10266-2751	2.7 MOHM . 25W 5% CF T/R	<u>E 1</u>
R1006	A10266-4751	4.7 MOHM . 25W 5 CF T/R	<u>E 1</u>
71007	A10266-3322	3.3 KOHM .5W 5% CF T/R	C 2
			<u> </u>
		CROWN INTERNATION	AL INC
DRAWINGS A	ND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-

		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R1014	A10265-12731	127 KOHM .25W 1 MF T/R	C 1
R1015	A10266-2711	270. OHM .25W 5% CF T/R	C 1
R1016	A10266-1641	160.KOHM . 25W 5% CF T/R	C 1
U900	C 7444-0	LM393 DUAL COMPARATOR	B 1
U901	C 4345-2	LM339N VOLT COMPARATOR	B 2
U902	C 7661-9	LM358N DUAL OP AMP	
0302			D 1
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<u>_</u>		1718 WEST MISHAWAKA ROAD ELKHART, INDIANA	
DRAWINGS AN	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR U THE MANUFACTURE OR S DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART. INDIANA AND DRAWN TLM 05-27-97 DWG. NO.	
NOT BE BEP	BODUCED COPTED OP U	AND SED ALE SSION. PROJ. MD360D0 102	SHEET 6





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E.C.	ZONE	REV		DESCRIPTION	DATE	BY		ROVALS			
	_		INITIAL RELE	ASE	05/23/97	TLM	LA				
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	E.C.	E.C. ZONE	E.C. ZONE REV	E.C. ZONE REV	E.C. ZONE REV DESCRIPTION	E.C. ZONE REV DESCRIPTION DATE	E.C. ZONE REV DESCRIPTION DATE BY	E.C. ZONE REV DESCRIPTION DATE BY APPE			

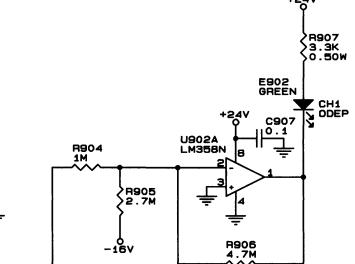
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Γ	D901	
	E903	
ſ	E1002	
ſ	G901	
	Q1001	
ſ	R916	
ſ	R1016	1008, 1009, 1010, 1011, 1012, 1013
	U902	

ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.

2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

				1						NAL, phone	IN((219) 294-8	- ·		
	I	PRINT	IS TO		SCHEMATIC: CT'10A DISPLAY									
		G	i4	DRAWN	TLM	05/23/97	APPROVE	D BY :		DO NOT SCALE PRINT				
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NOTES :

CT10A Display Module 125402 Information On Following Pages Documentation, Component Map, Schematic

٦	E.C.	ZONE	BEV	DESCRIPTION	DA	re		A	PPR	DVAL	.s
	E.C.	ZUNE	HEV.	DESCRIPTION	DA	-	BY	CHK	ME	EE	PE
			•	INITIAL RELEASE	10/26	3/97	TLM	Kw			EB
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UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

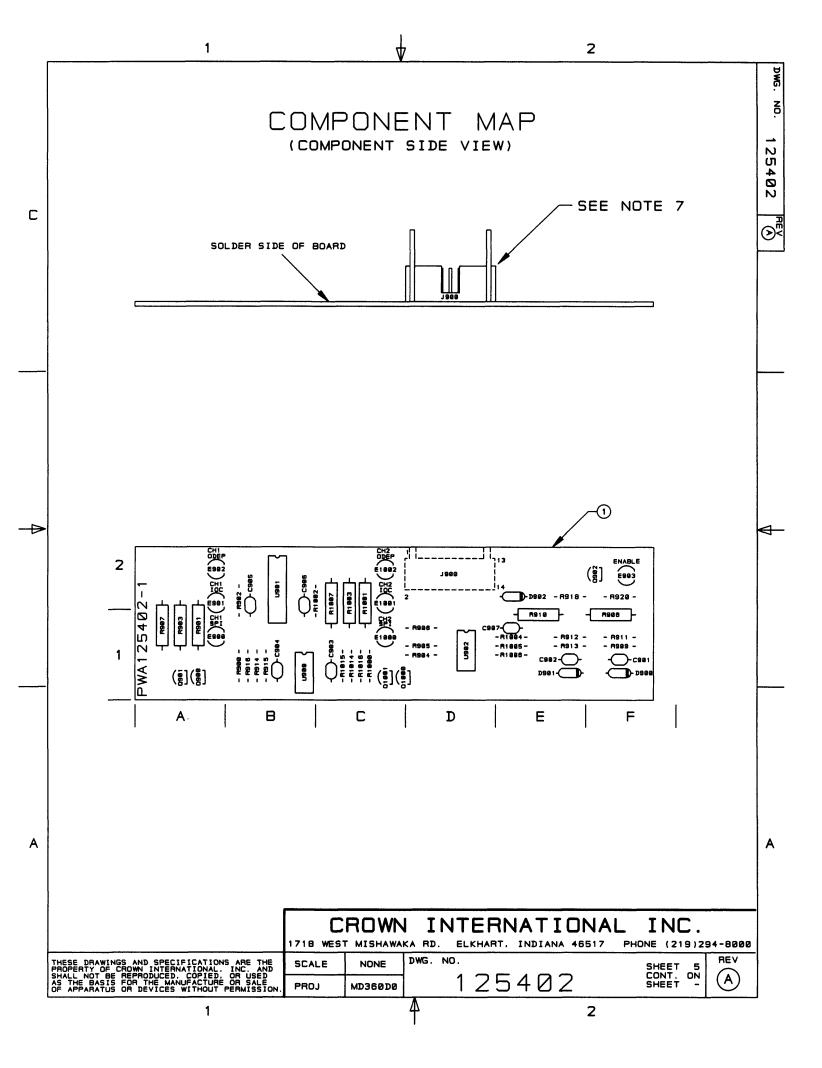
- 1. SCHEMATIC DRAWING NUMBER 125404.
- 2. PWB PART NUMBER 125403-1.
- 3. PWA PART NUMBER 125402-1.
- 4. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES AT REFERENCE DESIGNATION LOCATIONS J900. SEE COMPONENT MAP.
- 7. INSTALL J900 ON THE SOLDER SIDE OF THE BOARD. SEE COMPONENT MAP.

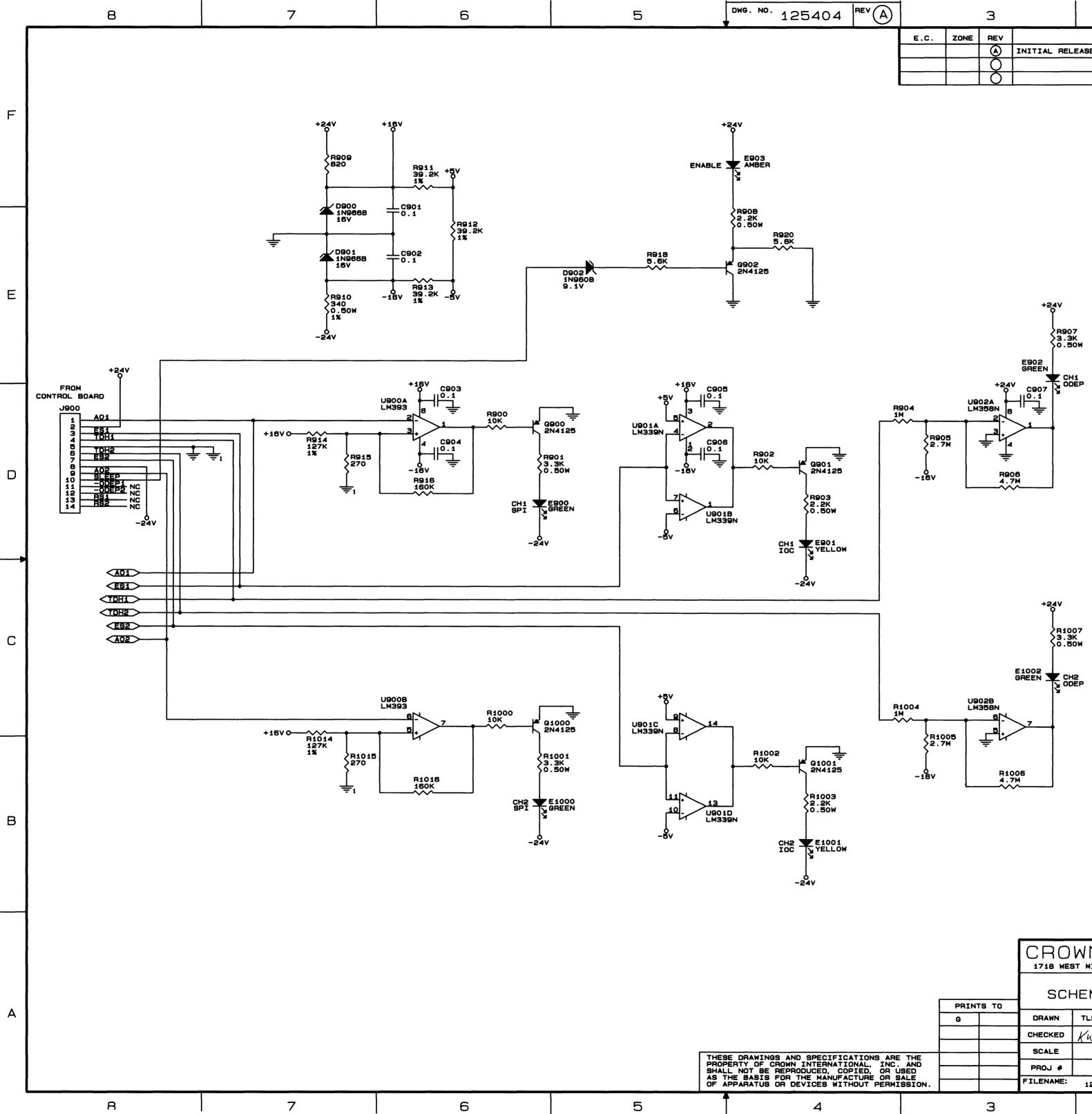
			CAU	<u> </u>				INACTIVE			
	_						announcedar	ference Use Only			
	S	TATIC	CAN DAM	AGE	CON	PONENTS	!				
14		DO	NOT	Н	AN	DLE					
		UNLESS	6 WRIST	STR	AP	IS WORN					
						······································					
					F	PROPERTY OF SHALL NOT B NS THE BASI	CROWN INTERN E REPRODUCED, S FOR THE MAN	FICATIONS ARE THE NATIONAL, INC. AND COPIED, OR USED NUFACTURE OR SALE WITHOUT PERMISSION.			
PRINTS TO	1718 WEST					RNAT		_ INC.			
К	PWA	, (CT10	A	Ι	DISP		DL.UNLESS SPECIFIED X.XX = ± 0.020 X.XXX = ± 0.010 DRILLS = ± 0.003			
	DRAWN	TLM	10-28-97	A	PPRO	VED BY:	DO NOT	SCALE PRINT			
	CHECKED	KW	10-28-97	ME			SUPERSEDES	5			
	SCALE	N	IONE	EE			E.C.				
	PROJ #	MD	390D0	PE	EB	10-28-97	DWG. NO.	SHEET 1 REV			
	FILENAME	: 1254	02A.001	NE>	KT AS	5M:	125402	SHEET 2 (A)			

A 10 265 - 127 31 1 27 KOHM . 25W 1 ME T/R 2 R914 .R1014 A1 0265 - 3092 340. OHM .5W 1X ME T/R 1 R910 A1 0265 - 1301 10. KOHM .25W 5X CF T/R 2 R1020. R102, R300. R902 A1 0265 - 1631 10. KOHM .25W 5X CF T/R 2 R1020. R1020, R300. R902 A1 0265 - 1641 150 KOHM .25W 5X CF T/R 2 R1020. R1020, R300. R300 A1 0265 - 221 2. Z. KOHM .5W SX CF T/R 2 R1020. R303. R308 A1 0265 - 271 2. Z. MOHM .25W 5X CF T/R 2 R1020. R303. R309 A1 0265 - 322 3. 3. KOHM .5W 5X CF T/R 2 R1020. R303. R309 A1 0265 - 322 3. 3. KOHM .5W 5X CF T/R 2 R1020. R301. R307 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R1020. R301. R307 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R1020. R301. R307 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R1020. R301. R307 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 2 R918, R320 A1 0266 - 231 5. 6. KOHM .25W 5X CF T/R 1 R309 C 3533 -4. D10DE. 1N9686 15V ZENER T/R 1 D302 C 3533 -4. D10DE. 1N9686 15V ZENER T/R 1 D302 C 3682 -4 D10DE. 1N9686 9. 1V ZENER T/R 1 D302 C 3682 -2 ZN125 30V PNP T/R 5 0. 0302. C1001. C302. C903. C904. C305. C 744 -610F 50V AXIAL CFR T/R 104 7 C306. C307 C 744 -610F 50V AXIAL CFR T/R 104 7 C306. C307 C 744 -610F 50V AXIAL CFR T/R 104 7 C306. C307 C 744 -610F 50V AXIAL CFR T/R 1 U392 C 9865 -2 14PTN DUAL C0 MAPR .1 X.1 CT 1 J300 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 4 F1000.E1002.E308.E302 D 3117 -5 LED. T 1.75 GREEN T/R 1 F100000 C 7661 -5 0000000000000000		PARTS LIS	· · · · · · · · · · · · · · · · · · ·	
A 10265-34022 349. OHM SW 12 ME T/R 1 R910 A 10265-30221 39.2KOHM .2SW 12 ME T/R 3 R911, R912, R913 A 10265-1051 1.0 KOHM .2SW 52 CF T/R 4 R1040, R1022, R900, R902 A 10265-1051 1.0 MOHM .2SW 52 CF T/R 2 R1044, R904 A 10265-2222 2.2 KOHM .SW 52 CF T/R 2 R1015, R915 A 10265-2211 270. OHM .2SW 52 CF T/R 2 R1015, R915 A 10265-2711 270. OHM .2SW 52 CF T/R 2 R1020, R902, R907 A 10265-2711 270. OHM .2SW 52 CF T/R 2 R1020, R907 A 10265-2721 2.7 MOHM .2SW 52 CF T/R 2 R1020, R907 A 10265-2711 4.7 MOHM .2SW 52 CF T/R 2 R1020, R907 A 10265-521 5.6 KOHM .2SW 52 CF T/R 1 R909 A 10265-521 5.6 KOHM .2SW 52 CF T/R 1 R909 A 10265-521 8.26 KOHM .2SW 52 CF T/R 1 R909 A 10266-121 820. OHM .2SW 52 CF T/R 1 R909 A 10266-121 820. OHM .2SW 52 CF T/R 1 R909 A 10266-121 820. OHM .2SW 52 CF T/R 1 R909 A 10266-121 820. OHM .2SW 52 CF T/R 1 R909 C 3525-6 2 N14125 30V PN T/R 5 0 10800. O1001.0900.0901.0902 C 4345-2 LM338N VOLT COMPARATOR 1 U901 C 5980-3 DIODE. 1N9680 ISV ZENER T/R 1 D902 C 6984-6 .1UF S9V AXIAL CER T/R 104 7 C901.0902.0901.0902 C 5980-3 DIODE. 1N9680 FIV ZENER T/R 1 U902 C 5980-3 L10F S0V AXIAL COMPARATOR 1 U902 C 5980-3 L10F S0V AXIAL COMPARATOR 1 U902 C 7444-0 LM358 DUAL COMPARATOR 1 U902 C 7444-0 LM358 DUAL COMPARATOR 1 U902 C 9035-1 HPIN DUAL ROW HR .1 X.1 CT 1 J900 D 9119-7 LED. T 1.75 CREEN T/R 4 F1020.E1002.E900.E902 D 9119-7 LED. T 1.75 CREEN T/R 4 F1020.E1002.E900.E902 D 9119-7 LED. T 1.75 CREEN T/R 4 F1020.E1002.E900.E902 D 9119-7 LED. T 1.75 CREEN T/R 1 E903 D 9119-7 LED. T 1.75 CREEN T/R 1 E703 D 9119-7 LED. T 1.75 CREEN T/R 1 E703 D 9119-7 LED. T 1.75 CREEN T/R 1 E703		DESCRIPTION		
A 12265-39221 39. 2KOHM. 25W 12 MF T/R 3 R911, 1912, 1913 A12266-1831 1.0. KOHM. 25W 52 CF T/R 4 R1800, R1002, R300, R300 A12266-1831 1.0. KOHM. 25W 52 CF T/R 2 R1016, R916 A12266-1821 1.00 KOHM. 25W 52 CF T/R 3 R10803, R303, R300 A12266-221 2.7. KOHM. 5W 52 CF T/R 2 R1015, R315 A12266-221 2.7. KOHM. 5W 52 CF T/R 2 R1025, R305 A12266-3222 3.3 KOHM. 5W 52 CF T/R 2 R1025, R305 A12266-3221 5.6 KOHM. 25W 52 CF T/R 2 R1025, R305 A12266-321 5.6 KOHM. 25W 52 CF T/R 2 R1026, R306 A12266-621 5.6 KOHM. 25W 52 CF T/R 2 R1086, R306 A12266-621 5.6 KOHM. 25W 52 CF T/R 2 R1086, R306 A12266-621 5.6 KOHM. 25W 52 CF T/R 1 R309 C 3533-4 D10DE, 1N9568 15V ZENER T/R 2 R1086, R306 A12266-621 L623 302 VNP T/R 7 C 3532-4 D10DE, 1N9568 9.1V ZENER T/R 1 D961 C 3502-50 2N1125 30V PNP T/R C 3604-6 .10F 50V AXIAL CER T/R 14 9080, D001, 0908, 0901, 0902 C 4345-2 LM339N VOLT COMPARATOR 1 U993 C 5800-3 D10DE, 1N9568 9.1V ZENER T/R 1 D962 C 7444-0 LM393 NUAL COMPARATOR 1 U930 C 5805-2 14PTN DUAL COMPARATOR 1 U930 C 3605-102, 175 GRENE T/R 1 J 3080 D 9117-9 LED, T 1.75 GRENE T/R 2 E1801, E901 D 9117-9 LED, T 1.75 GRENE T/R 4 E1800, E1002, E302, E302, E302 D 9119-5 LED, T 1.75 GRENE T/R 1 L930 D 9119-7 L00000000000000				
A 10 265-1031 10. KOHM. 25W 5% CF T/R 4 Pt 000, F1002, R000, P002 A10 255-1051 1.8 MOHM. 25W 5% CF T/R 2 R1004, R003, R				
A10266-1051				
A10266-1641 150 KOHM .25W 5 CF T/R 2 R1016.R916 A10265-2222 2.2 KOHM .5W 5% CF T/R 2 R1015.R915 A10266-2751 2.7 MOHM .25W 5% CF T/R 2 R1005.R905 A10266-2751 2.7 MOHM .25W 5% CF T/R 2 R1007.R901.R907 A10266-4751 4.7 MOHM .25W 5% CF T/R 2 R1006.R906 A10265-4751 4.7 MOHM .25W 5% CF T/R 1 R309 C 3525-8 21 5.6 KOHM .5W 5% CF T/R 1 R309 C 3525-8 21 1000. 19868 16V ZENER T/R 1 2 B900 .9901 C 3525-8 2N4125 30V PM T/R 5 01000.0901.0902 C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5500-3 D1000. 19868 10V ZENER T/R 10 1002 C 5600-3 D1000. 19869 91V ZENER T/R 10902 C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5500-3 D1000. 19869 91V ZENER T/R 10 4902 C 5600-3 D1000. 19869 91V ZENER T/R 10 4902 C 7444-0 LM393 DUAL COMPARATOR 1 U902 C 7444-0 LM393 DUAL COMPARATOR 1 U902 C 9865-2 14PTN DUAL R00 MPR .1 X.1 CT 1 J902 D 9117-9 LED. T 1.75 GREEN T/R 14 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GREEN T/R 1 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GREEN T/R 1 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GREEN T/R 1 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GRANGE T/R 1 E903 D 9117-9 LED. T 1.75 GRANGE T/R 1 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GRANGE T/R 1 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GRANGE T/R 1 E903 D 9107-1 LF 10 D15PLAY. 1 11 D 000000000000000000000000000000000000				
A10266-2222 2. 2 KOHM .5W 5X CF T/R 3 A10266-2711 270. OHM .25W 5X CF T/R 2 A10266-2751 2. 7 MOHM .25W 5X CF T/R 2 A10266-3322 3. 3 KOHM .5W 5X CF T/R 4 A10266-3322 5. 3 KOHM .5W 5X CF T/R 7 A10266-551 4. 7 MOHM .25W 5X CF T/R 2 A10266-5621 5. 6 KOHM .25W 5X CF T/R 2 A10266-6211 820. OHM .25W 5X CF T/R 2 A10266-6211 820. OHM .25W 5X CF T/R 1 A10266-6211 820. OHM .25W 5X CF T/R 1 A10266-7502 2 A10266-7502 2 A10266 2 A1026 2 A10266 2 A10266 2 A10266 2 A10260 2				
A10265-2711 270. OHM .25W 5% CF T/R 2 R1015, R915 A10265-2751 2. 7 MOHM .25W 5% CF T/R 2 R1005, R907 A10265-4751 4. 7 MOHM .25W 5% CF T/R 4 R1001, R1007, R901, R907 A10265-4751 4. 7 MOHM .25W 5% CF T/R 2 R100, R906 A10265-621 5. 6 KOHM .25W 5% CF T/R 1 R909 C 3533-4 D10DE, IN9660 16V ZENER T/R 2 D900, D901 C 3625-8 2N4125 30V PNP T/R 5 01020, C1001, C902, C903, C901, C902 C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5900-3 D10DE, IN9660 18 .1V ZENER T/R 10 U901 C 5900-3 D10DE, IN9660 18 .1V ZENER T/R 10 U901 C 5900-3 D10DE, IN9660 18 .1V ZENER T/R 10 U902 C 6804-6 .1UF 50V AXIAL CER T/R 104 7 C901, C902, C903, C904, C905, C 7444-2 LM393 DUAL COMPARATOR 1 U902 C 7444-2 LM393 DUAL COMPARATOR 1 U902 C 9805-2 144710 DUAL R0W H/R .1 X.1 CT 1 J900 D 9117-9 LED, T 1.75 GREEN T/R 2 E1001, E902, E900, E902 D 9118-7 LED, T 1.75 GREEN T/R 1 4 E1000, E1002, E900, E902 D 9118-7 LED, T 1.75 GREEN T/R 1 4 E1000, E1002, E900, E902 D 9118-7 LED, T 1.75 GREEN T/R 1 4 E1001, E903 125403-1 PWB, CT10 DISPLAY, , 1 1				
A18266-2751 2.7 MOHM .25W 5% CF T/R 2 R1005, R905 A18266-3322 3.3 KOHM .5W 5% CF T/R 4 R1001, R1007, R901, R907 A18266-4751 4.7 MOHM .25W 5% CF T/R 2 R1086, R906 A18266-5621 5.5 KOHM .25W 5% CF T/R 2 R918, R920 A18266-5621 820 OHM .25W 5% CF T/R 1 R909 C 3533-4 DIODE, IN9668 16V ZENER T/R 2 D980, D981 C 3525-8 2N4125 38V PNP T/R 5 D1400, 01001, 0980, 0901, 0902 C 4345-2 LM339N VOLT COMPARATOR 1 U980 C 5980-3 DIODE, IN9668 9.1V ZENER T/R 10 D982 C 5980-3 DIODE, IN9668 9.1V ZENER T/R 11 D982 C 6884-6 .1UF 58V AXIAL CER T/R 104 7 C 5901, C992, C993, C994, C995, C 7444-0 LM393 DUAL COMPARATOR 1 U980 C 7661-9 LM358N DUAL OP AMP 1 U980 C 9885-2 14PIN DUAL R0W HDR.1 X.1 CT 1 J980 D 9117-9 LED, T 1.75 GREN T/R 4 E1802, E1802, E980, E982 D 9118-7 LED, T 1.75 JELOW T/R 2 E1801, E993 D 9119-5 LED, T 1.75 JEANGE T/R 1 E983 125403-1 PWB, CT10 DISPLAY, . 11 1 25403-1 PWB, CT10 DISPLAY, . 11 25403-1 PWB, CT10 DISPLAY, . 120 25403-1 PWB, CT10 DISPLAY, . 120 25403-1 PWB, CT10				
A18266-3322 3.3 KOHM .5W 5% CF T/R 4 R1001.R1007.R901.R907 A10266-5621 5.5 KOHM .25W 5% CF T/R 2 R10.6.R906 A10266-6211 820. OHM .25W 5% CF T/R 2 R918.R920 A10266-6211 820. OHM .25W 5% CF T/R 1 R909 C 3533-4 DIODE. IN9668 I6V ZENER T/R 2 D900.D901 C 3535-8 Z144125 38V PNP T/R 5 D10802.01081.0980.0901.0982 C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5980-3 DIODE. IN9608 9.1V ZENER T/R 104 7 C901.C902.C903.C904.C905. C 5980-3 DIODE. IN9608 9.1V ZENER T/R 104 7 C901.C902.C903.C904.C905. C 7444-8 LM393 DUAL COMPARATOR 1 U902 C 7581-9 LM35N VULA COMPARATOR 1 U902 C 7581-9 LED. T 1.75 GREEN T/R 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GREEN T/R 4 E1000.E1002.E900.E902 D 9117-9 LED. T 1.75 GREEN T/R 1 1903 125403-1 PW6. CT10 DISPLAY 1 1 C 900 C 7500-1 PU6D. CT10 DISPLAY 1 1 C CROWN INTERNATIONAL INC C 100 MERCINE COMPARATOR 2 E1001.E901 C CROWN INTERNATIONAL INC C CROWN INTERNATIONAL INC C CROWN INTERNATIONAL INC C CROWN INTERNATIONAL INC C CROWN EXAMPLES AND REFERENCE TO CALL TO C				
A18266-4751 4.7 MOHM .25W 5 CF T/R 2 R1986, R996 A18266-5621 5.6 KOHM .25W 5X CF T/R 2 R519, R926 A18266-5621 820, OHM .25W 5X CF T/R 1 R989 C 3533-4 DIODE. IN9568 16V ZENER T/R 2 D988, D981 C 3533-4 DIODE. IN9568 16V ZENER T/R 2 D988, D981 C 3625-8 ZN4125 39V PNP T/R 5 O1888, O1881, O982, C983, C984, C982, C C 4345-2 LM339N VOLT COMPARATOR 1 U981 C 5986-3 DIODE. IN9568 9.1V ZENER T/R 10 P982 C 6384-6 .1UF 58V AXIA CER T/R 104 7 C 581, C982, C983, C984, C985, C C 7444-0 LM393 DUAL COMPARATOR 1 U998 C 7661-9 LM393N DUAL COMPARATOR 1 U988 C 7661-9 LM393N DUAL COMPARATOR 1 U988 C 9885-2 14PIN DUAL ROW HDR.1 X.1 CT 1 J986 D 9117-9 LED. T 1.75 ORANGE T/R 1 E1808, E1802, E980, E982 D 9118-7 LED. T 1.75 ORANGE T/R 1 E993 D 9119-5 LED. T 1.75 ORANGE T/R 1 E903 D 9119-5 LED. T 1.75 ORANGE T/R 1 E904 D 9100 C 1 000 C 1				
A18266-5621 5.6 KOHM .25W 5% CF T/R 2 R318,R920 A18266-8211 820. OHM .25W 5% CF T/R 1 R893 C 3533-4 DIODE. INSEGB 16V ZENER T/R 2 D980,D901 C 3625-8 2N4125 30V PNP T/R 5 01808.01801.0900.0901.0902. C 4345-2 LM339N VOLT COMPARATOR 1 U981 C 5980-3 DIODE. INSEGB 9.1V ZENER T/R 1 D902 C 6884-6 .1UF 50V AXIAL CER T/R 104 7 C591.C902.C903,C904.C905. C 7444-0 LM393 DUAL COMPARATOR 1 U980 C 7661-8 LM356N DUAL OP AMP 1 U980 C 7661-9 LED. T 1.75 GREEN T/R 4 E1808.E1802.E902. D 9117-9 LED. T 1.75 GREEN T/R 4 E1808.E1802.E902. D 9117-9 LED. T 1.75 GREEN T/R 1 E903 D 9119-5 LED. T 1.75 GREEN T/R 1 E903 D 9119-5 LED. T 1.75 ORANGE T/R 1 E903 125403-1 PWB, CT10 DISPLAY 1 1			· · · ·	
A 10 2 66 - 821 1 820. OHM .2 5W 5X CF T/R 1 R989 C 3533-4 DIODE. IN9668 16V ZENER T/R 2 D980, D981 C 3825-8 2N4125 38V PNP T/R 5 01080.01001.0980.0981.0982 C 4345-2 LM339N VOLT COMPARATOR 1 U981 C 5980-3 DIODE. IN9668 9.1V ZENER T/R 1 D982 C 6884-6 .1UF 58V AXIAL CER T/R 184 7 C981.C982.C983.C904.C985. C 7444-8 LM393 DUAL COMPARATOR 1 U980 C 7661-9 LM393 DUAL COMPARATOR 1 U980 C 9885-2 14PIN DUAL ROW HDR.1 X.1 CT 1 J980 D 9117-9 LED. T 1.75 FELED YT/R 2 E1801.E901 D 9119-5 LED. T 1.75 ORANGE T/R 1 E903 125483-1 PWB. CT10 DISPLAY 1 1				
C 3533-4 DIDDE, 1N966B 16V ZENER T/R 2 D980, D901 C 3525-8 2N4125 30V PNP T/R 5 01080, 0301, 0300, 0301, 0302 C 4345-2 L, M339N VOLT COMPARATOR 1 U991 C 5909-3 DIDDE, IN960B 9, IV ZENER T/R 10 D982 C 6804-61UF 50V AXIAL CER T/R 104 7 C901, C902, C903, C904, C905, C 7444-0 L, M353 DUAL COMPARATOR 1 U992 C 7651-9 L, M358N DUAL OP AMP 1 U992 C 9805-2 144PIN DUAL ROW HDR.1 X.1 CT 1 J960 D 9117-9 LED, T 1.75 GREEN T/R 4 E1080, E1002, E900, E902 D 9119-5 LED, T 1.75 GREEN T/R 1 E903 125403-1 PWB, CT10 DISPLAY, 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
C 3625-8 2N4125 38V PNP T/R 5 01808.01801.0882.0981.0802 C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5980-3 DIODE. 1N96089 9.1V 22NER T/R 1 D902 C 6884-61UF 58V AXIAL CER T/R 124 7 C901.C902.C903.C904.C905. C 7444-8 LM393 DUAL COMPARATOR 1 U902 C 7661-9 LM358N DUAL OP AMP 1 U902 C 9885-2 14PIN DUAL ROW HDR.1 X.1 CT 1 J908 D 9117-9 LED. T 1.75 GREEN T/R 4 E1808.E1802.E980.E992 D 9118-7 LED. T 1.75 GREEN T/R 1 E903 125403-1 PWB, CT10 DISPLAY 1 1			·	
C 4345-2 LM339N VOLT COMPARATOR 1 U901 C 5900-3 DIODE. IN9608 9.1V ZENER T/R 1 D902 C 6904-61UF 50V AXIAL CER T/R 104 7 C901.C902.C903.C904.C905. C 7444-0 LM393 DUAL COMPARATOR 1 U902 C 7661-9 LM39SN DUAL OP AMP 1 U902 C 9865-2 14PIN DUAL ROW HDR .1 X.1 CT 1 J900 D 9117-9 LED. T 1.75 GREEN T/R 4 E1001.E901 D 9119-5 LED. T 1.75 ORANGE T/R 1 E903 125403-1 PWB. CT10 DISPLAY 1 1 			<u> </u>	
C 5900-3 DIODE. 1N9608 9.1V ZENER T/R 1 D902 C 6804-6 1UF 50V AXIAL CER T/R 104 7 C901. C902. C903, C904. C905, C 7444-0 LM393 DUAL COMPARATOR 1 U900 C 7661-9 LM358N DUAL OP AMP 1 U902 C 9805-2 14PIN DUAL AC WHOR, 1 X.1 CT 1 J900 D 9117-9 LED, T 1.75 GREEN T/R 4 E1000.E1002.E900.E902 D 9118-7 LED, T 1.75 GREEN T/R 1 E903 125403-1 PWB, CT10 DISPLAY, 1 1 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 125403-1 PWB, CT10 DISPLAY, 1 1 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 1 E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 1 E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 1 E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 1 E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E901 D 9119-5 LED, T 1.75 VELLOW T/R 1 E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 D 9119-7 LED, T 1.75 VELLOW T/R 2 E1001.E903 S 200 S 200			<u> </u>	
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11 A10265-39221 39.2KOHM .25W 1% MF T/R F 1 1912 A10265-39221 39.2KOHM .25W 1% MF T/R E 1 1913 A10265-39221 39.2KOHM .25W 1% MF T/R E 1 1914 A10265-39221 39.2KOHM .25W 1% MF T/R E 1 1914 A10265-12731 127 KOHM .25W 1% MF T/R B 1 1915 A10266-2711 270. OHM .25W 5% CF T/R B 1 1915 A10266-2621 5.6 KOHM .25W 5% CF T/R B 1 1918 A10266-5621 5.6 KOHM .25W 5% CF T/R E 2 1920 A10266-5621 5.6 KOHM .25W 5% CF T/R E 2 1920 A10266-1031 10. KOHM .25W 5% CF T/R C 1 10001 A10266-3322 3.3 KOHM .5W 5% CF T/R C 1 1002 A10266-1031 10. KOHM .25W 5% CF T/R C 1 11002 A10266-1031 10. KOHM .5W 5% CF T/R C 1 11002 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1 11003 A10266-2222 2.2 KOHM	909			F 1
N912 A10265-39221 39.2KOHM25W 1% MF T/R E 1 N913 A10265-39221 39.2KOHM25W 1% MF T/R E 1 N914 A10265-12731 127 KOHM25W 1% MF T/R B 1 N915 A10266-2711 270. OHM25W 5% CF T/R B 1 N916 A10266-1641 160 KOHM25W 5% CF T/R B 1 N918 A10266-5621 5.6 KOHM25W 5% CF T/R E 2 N920 A10266-5621 5.6 KOHM25W 5% CF T/R E 2 N920 A10266-1031 10. KOHM25W 5% CF T/R E 2 N1000 A10266-1031 10. KOHM25W 5% CF T/R C 1 N1001 A10266-1031 10. KOHM25W 5% CF T/R C 1 N1002 A10266-1031 10. KOHM25W 5% CF T/R C 1 N1003 A10266-2222 2.2 KOHM5W 5% CF T/R C 1 N1003 A10266-2222 2.2 KOHM5W 5% CF T/R C 1 N1003 A10266-2222 2.2 KOHM5W 5% CF T/R C 1 N1003 A10266-2222 2.2 KOHM5W 5% CF T/R C 1	910			E 1
13 A10265-39221 39.2KOHM.25W 1% MF T/R E 1914 A10265-12731 127 KOHM.25W 1 MF T/R B 1915 A10266-2711 270.0HM.25W 5% CF T/R B 1 1916 A10266-1641 160 KOHM.25W 5% CF T/R B 1 1918 A10266-5621 5.6 KOHM.25W 5% CF T/R E 2 1920 A10266-5621 5.6 KOHM.25W 5% CF T/R F 2 1000 A10266-5621 5.6 KOHM.25W 5% CF T/R F 2 11000 A10266-3322 3.3 KOHM.25W 5% CF T/R C 1 11001 A10266-1031 10. KOHM.25W 5% CF T/R C 1 11002 A10266-1031 10. KOHM.25W 5% CF T/R C 1 11001 A10266-1031 10. KOHM.25W 5% CF T/R C 1 11002 A10266-1031 10. KOHM.25W 5% CF T/R C 1 11003 A10266-2222 2.2 KOHM.5W 5% CF T/R C 1 11003 A10266-2222 2.2 KOHM.5W 5% CF T/R C 1 11003 A10266-2222 2.2 KOHM.5W 5% CF T/R C <	7911			
14 A10265-12731 127 KOHM .25W 1 MF T/R B 1 1915 A10266-2711 270 OHM .25W 5% CF T/R B 1 1915 A10266-2711 270 OHM .25W 5% CF T/R B 1 1916 A10266-1641 160 KOHM .25W 5% CF T/R B 1 1918 A10266-5621 5.6 KOHM .25W 5% CF T/R E 2 1920 A10266-5621 5.6 KOHM .25W 5% CF T/R E 2 1000 A10266-1031 10 KOHM .25W 5% CF T/R C 1 1001 A10266-1031 10 KOHM .5W 5% CF T/R C 1 1002 A10266-1031 10 KOHM .5W 5% CF T/R C 1 1003 A10266-2222 2.2 KOHM .5W	7912	and the second se		
8915 A10266-2711 270. OHM .25W 5% CF T/R B 1 8916 A10266-1641 160 KOHM .25W 5% CF T/R B 1 8918 A10266-5621 5.6 KOHM .25W 5% CF T/R E 2 8920 A10266-5621 5.6 KOHM .25W 5% CF T/R F 2 81000 A10266-1031 10. KOHM .25W 5% CF T/R C 1 81001 A10266-3322 3.3 KOHM .5W 5% CF T/R C 1 81002 A10266-1031 10. KOHM .25W 5% CF T/R C 1 81002 A10266-2322 3.3 KOHM .5W 5% CF T/R C 1 81003 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1 81003 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1 81003 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1 81003 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1 81003 A10266-2222 2.2 KOHM .5W 5% CF T/R C 1	1913			
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1002 A10266-1031 10. КОНМ. 25W 5% СЕ Т/R С 2 1003 A10266-2222 2.2 КОНМ. 5W 5% СЕ Т/R С 1 СПОИЗ СПОИХ СЕ Т/R С 1 СПОИХ СЕ Т/R С 1 СПОИХ ІNTERNATIONAL INC				
А10266-2222 2.2 КОНМ .5W 5% СЕ Т/R С 1 С 1 С 1 С 1 С 1 С 1 С 1				
CROWN INTERNATIONAL INC				
	בשטור	A10200-2222	2.2 KUHM . DW D% LF I/H	
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DRAWINGS AND SPECIFICATIONS ARE THE				
TLM 10-28-97 DWG. NU. SHEET 3	DRAWINGS A	ND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN TLM 10-28-97 DWG. NO.	

<u> </u>	······	PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R1004	A10266-1051	1.0 MOHM .25W 5 CF T/R	E 1
R1005	A10266-2751	2.7 MOHM .25W 5% CF T/R	E 1
R1006	A10266-4751	4.7 MOHM . 25W 5 CF T/R	E 1
R1007	A10266-3322	3.3 KOHM .5W 5% CF T/R	C 1
R1014		127 KOHM . 25W 1 MF T/R	C 1
R1015	A10266-2711	270. OHM .25W 5% CF T/R	C 1
R1016	A10266-1641	160 KOHM . 25W 5% CF T/R	
U900	C 7444-0	LM393 DUAL COMPARATOR	B 1
U901	C 4345-2		
		LM339N VOLT COMPARATOR	B 2
U902	C 7661-9	LM358N DUAL OP AMP	D 1
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		E.C.	ZONE	REV		DES	CRIPTION	DATE	BY	CK		
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LAST USED	NOT USED
C907	
D902	
E903	
E1002	
0902	
Q1001	
R920	917, 919
R1016	1008, 1009, 1010, 1011, 1012, 1013
U902	

NOTES :

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE Specified.

2. ALL CAPACITORS ARE IN Microfarads unless Otherwise specified.

INACTIVE

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For Reference Use Only

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PRINTS TO			S TO	SCH	HEMA	ATIC;	С	Τ'1	OA DI	SPLAY	W/SLEEP		
		G			TLM	10/28/97	AF	PROVE	D BY :	DO NOT SCALE PRINT			
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ECIFICATIONS ARE				SCALE	NONE		EE		E.C.				
ERNATIONAL, INC. Ed, copied, or u	AND SED			PROJ #	PROJ # MD360D0		PE	EB	10-28-97	DWG. NO.	SHEET 1 OF 1	REV	
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CT810/1610 Output Module Information On Following Pages Documentation, Component map, Schematic

CROV	VN I	NTERI	NATI	ONA	ΥL '	INAC1	Use Only	10	02	89
REVISION	<u> </u>	A	TITLE:					PRINTS		к
MADE BY	TOM S	ZERENCSE	PWA;	CT810	3/161	Ø OUTF	PUT	SHEET	NO.	1
DATE	08-	-08-96	-					CONT. O	N SH	2
PROJ.)360	FIRST M	ADE FOR		Ø SERI	ES	DRAWN		TLM
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	OF APP	PARATUS OR DE	ICES WITHO	JT PERMIS	ŠĪON.	MFG				

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REVISION		A	TITLE:		PRINTS	ĸ
MADE BY	том	SZERENCSE		PWA; CT810/1610 OUTPUT		2
DATE	08	-08-96			SHEET NO. CONT.ON SH	3
PROJ.		D360	FIRST MAI	DE FOR: CT10 SERIES	DRAWN	TLM
				ITROL INFORMATION		
	_			-		
NAM PAT V		SHEET NO. 1-8	SHEET REV. A	ACTION INITIAL RELEASE		
		1-0	~	INITIAL RELEASE		

UNLESS OTHERWISE SPECIFIED. THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

PROPERT SHALL N AS THE DE APPA

- 1. SCHEMATIC DRAWING NUMBER 100290.
- 2. PWB PART NUMBER 100286-1.
- 3. PWA PART NUMBER 100289-1.
- 4. ALL LEADS SHALL BE TRIMMED ACCORDING TO ILLUSTRATION 2 OF DRAWING T10131-0 REV.A.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. AFTER WAVE SOLDERING REMOVE BREAK OUT OVAL. SEE COMPONENT MAP.
- 7. AFTER WAVE SOLDERING, INSTALL COMPONENTS Q01, Q02, Q01X AND Q02X AS FOLLOWS: - LAY THE CIRCUIT BOARD ON 0.032" SPACERS THAT ARE PLACED ON A FLAT SURFACE.
 - PLACE THE TRANSISTOR IN THE OPENING OF THE PWB. WITH THE TRANSISTOR LAYING AGAINST THE FLAT SURFACE, FORM THE TRANSISTOR LEADS TO THE PWB. THIS WILL REDUCE THE STRAIN ON THE COMPONENT LEADS.
 - SOLDER THE TRANSISTOR LEADS TO THE PADS ON THE BOARD.
 - SOLDER Q01X AND Q02X HOLD DOWN CLIPS (D 6414-3) TO THE PADS ON THE PWB AS SHOWN ON THE COMPONENT MAP TOP VIEW.
- 8. AFTER WAVE SOLDERING INSTALL COMPONENTS P00, P01 AND L02 AS SHOWN ON COMPONENT MAP SIDE VIEW. NOTE ORIENTATION OF THE COMPONENTS.
- 9. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD IN THE PROVIDED BOX AND SHALL BE PERMANENT.

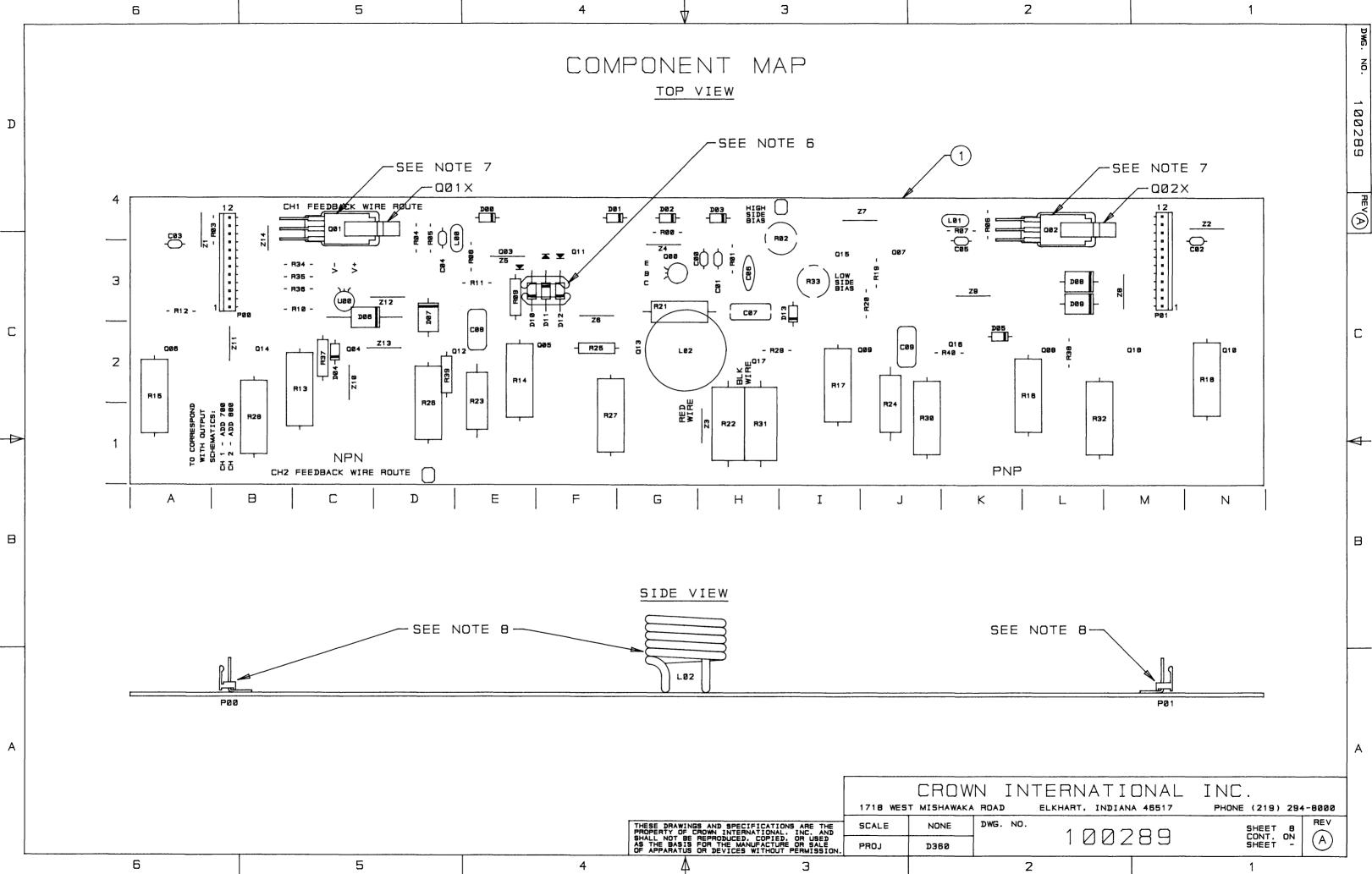
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	1718 WEST				, INDIANA		PHONE	(219) 294	
RAWINGS AND SPECIFICATIONS ARE THE OF CROWN INTERNATIONAL, INC. AND DI RE REPRODUCED. COPIED. OR USED	DRAWN	TLM	08-08-96	DWG.	NO.			SHEET 3	REV
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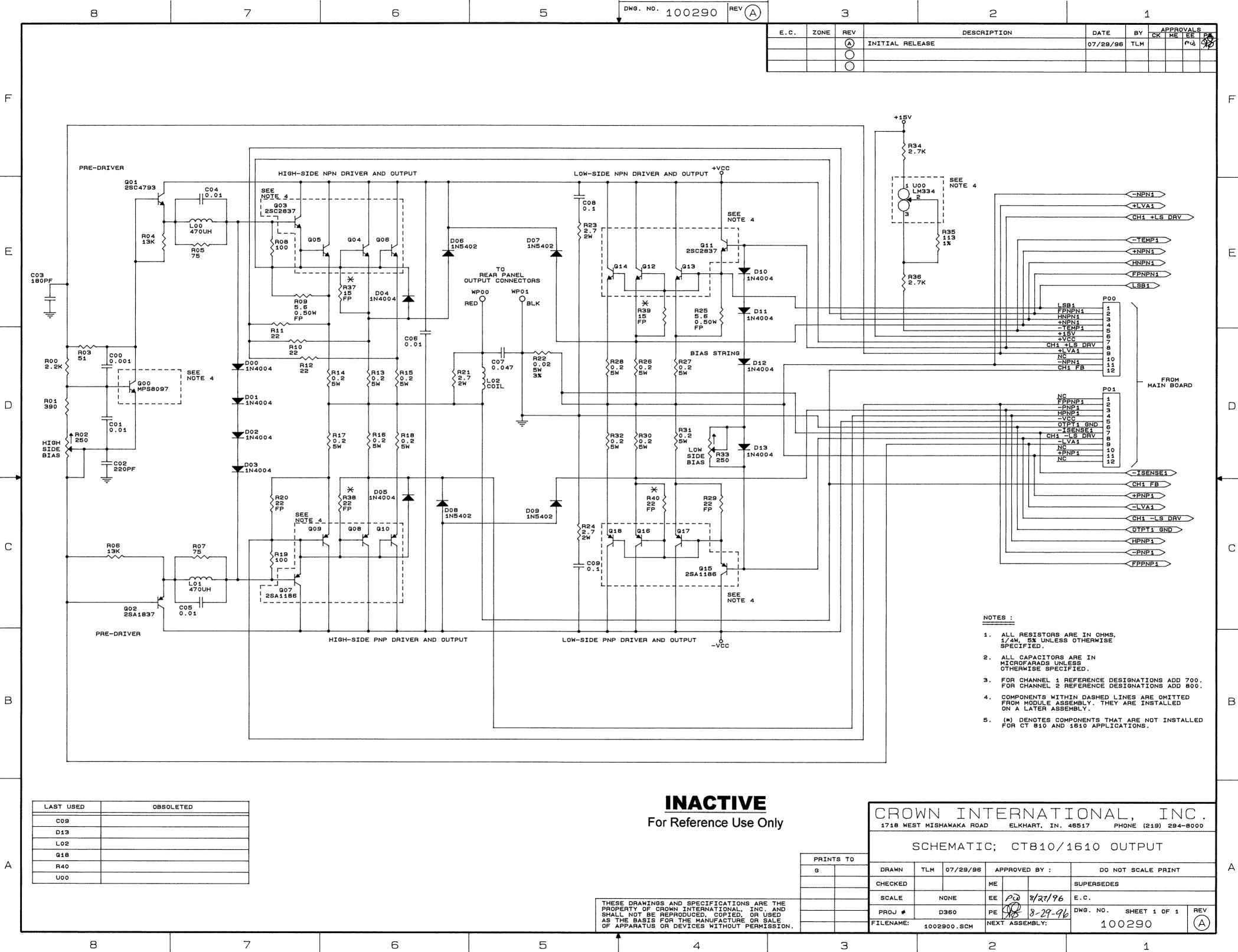
	PARTS LIS	1	
<u>C.P.N.</u>	DESCRIPTION	ΩΤΥ	
100286-1	PWB, CT10 OUTPUT, , ,		1
A10265-11301	113 OHM . 25W 1% MF T/R		R35
A10266-1011	100. OHM .25W 5% CF T/R	2	R08, R19
A10266-1331	13.0KOHM .25W 5% CF T/R	2	R04, R06
A10266-2201	22.0 OHM .25W 5 CF T/R	3	R10, R11, R12
A10266-2221	2.2 KOHM .25W 5% CF T/R		R00
A10266-2721	2.7 KOHM . 25W 5 CF T/R	2	R34, R36
A10266-2R74	2.7 OHM 2W 5% CF T/R	3	R21, R23, R24
A10266-3911	390. OHM . 25W 5% CF T/R		R01
A10266-5101	51.0 OHM .25W 5% CF T/R		R03
A10266-7501	75.0 OHM .25W 5 CF T/R	2	R05, R07
C 2851-1	RECTIFIER, 1N4004 SILICON T/	10	D00, D01, D02, D03, D04, D05,
0.0044.0		<u> </u>	D10, D11, D12, D13
<u>C 2941-0</u>	DIODE, 1N5402 3A 200V	4	D06, D07, D08, D09
<u>C 3510-2</u>	CHOKE, 10% AXIAL 470 UH TR	2	L00,L01
C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	14	Z1, Z10, Z11, Z12, Z13, Z14,
<u> </u>		12	Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9,
C 6486-2	0.2 OHM 5W 5% WIRE	12	R13, R14, R15, R16, R17, R18,
C 6006-1			R26, R27, R28, R30, R31, R32,
<u>C 6806-1</u> C 6807-9	.01UF 100V AXIAL CER T/R 103 .001UF 100V 10% AXL CER T/R		C01,C04,C05
	220PF 100V AXIAL CER T/R 221		
<u>C 6809-5</u> C 6810-3			C02
C 6844-2	180PF 100V AXIAL CER T/R 181 250 OHM LNR VERT ADJ TRIMPOT	1	
C 7697-3	.01 UF 500V 1.5" LEADS DISC	<u> </u>	R02, R33
C 7778-1			C06
C 7779-9		2	R09, R25
C 8426-6	22. OHM .25W 5% FU/FP T/R .1UF 250V 10% MET POLY RADIA		R20, R29
· · · · · · · · · · · · · · · · · · ·		2	C08, C09
<u>C 8511-5</u> C 9828-2	0.047UF 250V 5% FILM	1	
	12 PIN MTA HDR, R/A PC MNT T		P00, P01
<u>C10155-7</u> C10156-5	2SC4793 PWR NPN XSISTOR 2SA1837 PWR PNP XSISTOR	1	001
* * * *			QØ2
C10444-5	.02 OHM 5W 3% WW RES AXL MOU	1	R22
D 6414-3 D 6592-6	CLIP CT/MA/MT/PB PRED HOLDDO	2	Q01X,Q02X
D 0092-0	COIL, MICROTECH OUTPUT 414W1	1	L02
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	1718 WEST MISHAWAKA P		ELKHART, INDIANA 46517 PHONE (219) 294-6
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REF DES	6 C.P.N.	DESCRIPTION	MAP LOC.
1	100286-1	PWB, CT10 OUTPUT, , ,	
C00	C 6807-9	.001UF 100V 10% AXL CER T/R	нз
CØ1	C 6806-1	.01UF 100V AXIAL CER T/R 103	НЗ
CØ2	C 6809-5	220PF 100V AXIAL CER T/R 221	N 4
СØЗ	C 6810-3	180PF 100V AXIAL CER T/R 181	A 3
CØ4	C 6806-1	.01UF 100V AXIAL CER T/R 103	D 4
CØ5	C 6806-1	.01UF 100V AXIAL CER T/R 103	К 4
CØ6	C 7697-3	.01 UF 500V 1.5" LEADS DISC	НЗ
CØ7	C 8511-5	0.047UF 250V 5% FILM	НЗ
CØ8	C 8426-6	.1UF 250V 10% MET POLY RADIAL	E 2
CØ9	C 8426-6	.1UF 250V 10% MET POLY RADIAL	J 2
D00	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 4
DØ 1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 4
DØ2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D03	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	H 4
DØ4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 2
DØ5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	K 2
DØ6	C 2941-0	DIODE, 1N5402 3A 200V	С 3
DØ7	C 2941-0	DIODE, 1N5402 3A 200V	DЗ
DØ8	C 2941-0	DIODE, 1N5402 3A 200V	L 3
D09	C 2941-0	DIODE, 1N5402 3A 200V	L 3
D10	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	Е З
D11	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
D12	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
D13	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	IЗ
L00	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	E 4
LØ1	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	K 4
LØ2	D 6592-6	COIL, MICROTECH OUTPUT 414W1	G 2
P00	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	В 3
PØ1	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	М З
000		INSTALLED ON NEXT ASSEMBLY	<u> </u>
	C10155-7	25C4793 PWR NPN XSISTOR	<u> </u>
<u>001X</u>	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	84
002	C10156-5	2SA1837 PWR PNP XSISTOR	К 4
002X	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	К 4
003		INSTALLED ON NEXT ASSEMBLY	<u>E 3</u>
004		INSTALLED ON NEXT ASSEMBLY	<u> </u>
005		INSTALLED ON NEXT ASSEMBLY	<u> </u>
006		INSTALLED ON NEXT ASSEMBLY	A 2
007		INSTALLED ON NEXT ASSEMBLY INSTALLED ON NEXT ASSEMBLY	J_3
008 009		INSTALLED ON NEXT ASSEMBLY	
			<u> </u>
010 011		INSTALLED ON NEXT ASSEMBLY INSTALLED ON NEXT ASSEMBLY	<u>N 2</u> F 3
012		INSTALLED ON NEXT ASSEMBLY	
Q13		INSTALLED ON NEXT ASSEMBLY	D 2
Q14	1	INSTALLED ON NEXT ASSEMBLY	<u>G 2</u> B 2
		INSTALLED ON NEXT ASSEMBLT	
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		CROWN INTERNATIO	JNAL INC
	AND SPECIFICATIONS	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 INC. AND DRAWN TIM 08-08-95 DWG, NO.	PHONE (219) 294-

016 INSTALLED ON NEXT ASSEMBLY I 016 INSTALLED ON NEXT ASSEMBLY K 017 INSTALLED ON NEXT ASSEMBLY H 018 INSTALLED ON NEXT ASSEMBLY H 018 INSTALLED ON NEXT ASSEMBLY H 018 INSTALLED ON NEXT ASSEMBLY H 019 INSTALLED ON NEXT ASSEMBLY H 011 A10286-2201 2.2 KOHM .25W 5X CF T/R G 018 A10286-2301 390. OHM .25W 5X CF T/R D 018 A10286-7301 51.0 OHM .25W 5X CF T/R D 019 A10286-7501 13.0 KOHM .25W 5X CF T/R K 016 A10286-7501 51.0 OHM .25W 5X CF T/R K 017 A10286-7501 51.0 OHM .25W 5X CF T/R K 018 A10286-7201 22.0 OHM .25W 5X CF T/R K 019 A10266-2201 22.0 OHM .25W 5X CF T/R K A 010 A10266-2201 22.0 OHM .25W 5X WIFE C 2 11 A10266-2201 22.0 OHM .5W 5X WIFE L 2 12 A10266-2201 22.0 OHM .5W 5X WIFE <td< th=""><th>REF DES</th><th>C.P.N.</th><th>DESCRIPTION</th><th>MAP LOC.</th></td<>	REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D16 INSTALLED ON NEXT ASSEMBLY K 2 D17 INSTALLED ON NEXT ASSEMBLY H 2 D18 INSTALLED ON NEXT ASSEMBLY H 2 D18 INSTALLED ON NEXT ASSEMBLY M 2 D18 C 5824-221 2 K 0HM .25W 5X CF T/R H 3 D17 D14 D175.0 D14 D14 D265-131 D1.0 KOHM .25W 5X CF T/R D 4 D4 D17265-7201 D3.0 KOHM .25W 5X CF T/R K 4 A D265-1331 D3.0 KOHM .25W 5X CF T/R K 4 D265-1201 D2.0 OHM .25W 5X CF T/R E 3 D18 A10266-2201 D2.0 OHM .25W 5X CF T/R E 3 D11 A10266-2201 D2.0 OHM .25W 5X CF T/R C 3 D11 A10266-201 D2.0 OHM .25W 5X CF T/R C 2 D11 A10266-201 D2.0 OHM .25W 5X VIRE C 2 D11 A10266-201	Q15			
017 INSTALLED ON NEXT ASSEMBLY H 2 018 INSTALLED ON NEXT ASSEMBLY M 2 018 A10256-2221 2,2 KOHM25W 5% CF T/R G 4 019 A10256-3911 390. OHM25W 5% CF T/R H 3 018 A10256-5301 51.0 OHM25W 5% CF T/R H 4 018 A10256-5101 51.0 OHM25W 5% CF T/R D 4 019 A10256-5101 13.0 KOHM25W 5% CF T/R D 4 018 A10256-7501 75.0 OHM25W 5% CF T/R D 4 018 A10256-7501 75.0 OHM25W 5% CF T/R K 4 019 A10256-7501 75.0 OHM25W 5% CF T/R K 4 026 A10256-7201 75.0 OHM25W 5% CF T/R K 4 026 A10266-7201 22.0 OHM25W 5% CF T/R K 3 0310 A10266-2201 22.0 OHM.25W 5% UFF T/R K 4 040 A10266-2201 22.0 OHM.25W 5% WIRE E 2 R 041 A10266-2201 22.0 OHM.5W 5% WIRE L 2 R 112 A1026	Q16			
D18 INSTALLED DN NEXT ASSEMBLY M 2 R00 A10256-2221 2.2 KOHM 25W 52 CF T/R G 4 R01 A10256-221 2.2 KOHM 25W 52 CF T/R H 3 R02 C 6844-2 250 OHM LNR VERT ADJ TRIMPOT H 4 R03 A10256-5101 51.0 OHM 25W 52 CF T/R D 4 R04 A10256-1331 13.0KOHM 25W 52 CF T/R D 4 R05 A10256-1331 13.0KOHM 25W 52 CF T/R K 4 R06 A10256-7501 75.0 OHM 25W 52 CF T/R K 4 R07 A10256-1331 13.0KOHM 25W 52 CF T/R K 4 K 4 R08 A10256-1331 13.0KOHM 25W 52 CF T/R K 3 K 4 R08 A10256-1331 13.0KOHM 25W 52 CF T/R K 3 K 4 R07 A10256-2201 22.0 OHM 25W 52 CF T/R K 3 K 4 R08 C 7778-1 S.6 OHM 25W 52 CF T/R K 3 K 4 R11 A10256-201 2.2 OHM 5W 52 WIRE K 2 C R12 C 648	Q17			
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R36 A10266-2721 2.7 KOHM .25W 5 CF T/R C 3 R37 D0 NOT INSTALL C 2 R38 D0 NOT INSTALL L 2 R39 D0 NOT INSTALL D 2 R40 D0 NOT INSTALL K 2 J00 INSTALLED ON NEXT ASSEMBLY C 3 CROWN INTERNATIONAL INC	R34	A10266-2721	2.7 KOHM .25W 5 CF T/R	СЗ
R37 D0 NOT INSTALL C 2 R38 D0 NOT INSTALL L 2 R39 D0 NOT INSTALL D 2 R40 D0 NOT INSTALL K 2 J00 INSTALLED ON NEXT ASSEMBLY C 3 Image: Straight of the straight	R35	A10265-11301	113 OHM .25W 1% MF T/R	СЗ
R3B D0 NOT INSTALL L 2 R39 D0 NOT INSTALL D 2 R40 D0 NOT INSTALL K 2 J00 INSTALLED ON NEXT ASSEMBLY C 3 Image: State of the state of t	R36	A10266-2721	2.7 KOHM .25W 5 CF T/R	СЗ
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R39 D0 NOT INSTALL D 2 R40 D0 NOT INSTALL K 2 J00 INSTALLED ON NEXT ASSEMBLY C 3 Image: Straight of the straigh	R38			
R40 DO NOT INSTALL K 2 J00 INSTALLED ON NEXT ASSEMBLY C 3 CROWN INTERNATIONAL INC	R39		DO NOT INSTALL	
INSTALLED ON NEXT ASSEMBLY C 3	R40			
CROWN INTERNATIONAL INC	100		INSTALLED ON NEXT ASSEMBLY	
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DRAWINGS AND SPECIFICATIONS ARE THE TYTE WEST WITHWARK HOAD ERMANT, INDIANA 48517 PHONE (219) 294- RTY OF CROWN INTERNATIONAL, INC. AND DRAWN TLM Ø8-Ø8-96 DWG. NO. SHEET 6			1718 WEST MISHAWAYA DOAD ELVHART INDIANA 45517	AL INC

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
Z1	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	A 4
 Z2	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	N 4
 Z3	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	——————————————————————————————————————
<u>Z4</u>	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	G 3
 Z5	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	E 3
 Z6	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	F 3
Z7	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	J_4
Z8	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	M 3
Z9	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	КЗ
Z10	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	C 2
Z11	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	B_2
Z12	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	<u>р</u> з
Z13	C 5868-2	Ø OHM.25W 20 MILOHM MAX T/R	D 2
Z14	C 5868-2	Ø OHM.25W 20 MILOHM MAX T/R	B 4
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		CROWN INTERNA	
DRAWINGS	AND SPECIFICATIONS WN INTERNATIONAL, PRODUCED, COPIED, R THE MANUFACTURE DEVICES WITHOUT P	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIAN, INC. AND DRAWN TLM 08-08-95 DWG. NO.	46517 PHONE (219) 294-





CT810A/1610A Output Module Information On Following Pages Documentation, Component Map, Schematic

- F	E.C.N.	ZONE	REV	DESCRIPTION	DA	r¢.	BY	A	PPR	DVAL	.S
F								СНК	ME	EE	PĘ
L			A	INITIAL RELEASE	05/3	9/97	LCD	KW		(B
						,					[
[· ·

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES

- 1. SCHEMATIC DRAWING NUMBER 102773.
- 2 PWB PART NUMBER 102770-1.
- 3. PWA PART NUMBER 102774-1.
- 4 ALL LEADS SHALL BE TRIMMED ACCORDING TO ILLUSTRATION 2 OF DRAWING T10131-0 REV.A.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- б. AFTER WAVE SOLDERING REMOVE BREAK OUT OVAL. SEE COMPONENT MAP.
- AFTER WAVE SOLDERING, INSTALL COMPONENTS Q01, Q02, Q01X AND Q02X AS FOLLOWS: 7.
 - LAY THE CIRCUIT BOARD ON 0.032" SPACERS THAT ARE PLACED ON A FLAT SURFACE. - PLACE THE TRANSISTOR IN THE OPENING OF THE PWB. WITH THE TRANSISTOR LAYING AGAINST THE FLAT SURFACE, FORM THE TRANSISTOR LEADS TO THE PWB. THIS WILL REDUCE THE STRAIN ON THE COMPONENT LEADS.
 - SOLDER THE TRANSISTOR LEADS TO THE PADS ON THE BOARD.
 - SOLDER Q01X AND Q02X HOLD DOWN CLIPS (D 6414-3) TO THE PADS ON THE PWB AS SHOWN ON THE COMPONENT MAP TOP VIEW.
- AFTER WAVE SOLDERING INSTALL COMPONENTS P00, P01 AND L02 AS SHOWN ON В. COMPONENT MAP SIDE VIEW. NOTE ORIENTATION OF THE COMPONENTS.
- THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE 9. PRINTED CIRCUIT BOARD IN THE PROVIDED BOX AND SHALL BE PERMANENT.

CAUTION	
STATIC CAN DAMAGE COMPONENTS!	:
DO NOT HANDLE	
UNLESS WRIST STRAP IS WORN	INACTIVE For Reference Use Only Document Has Been Replaced

with a Newer Version

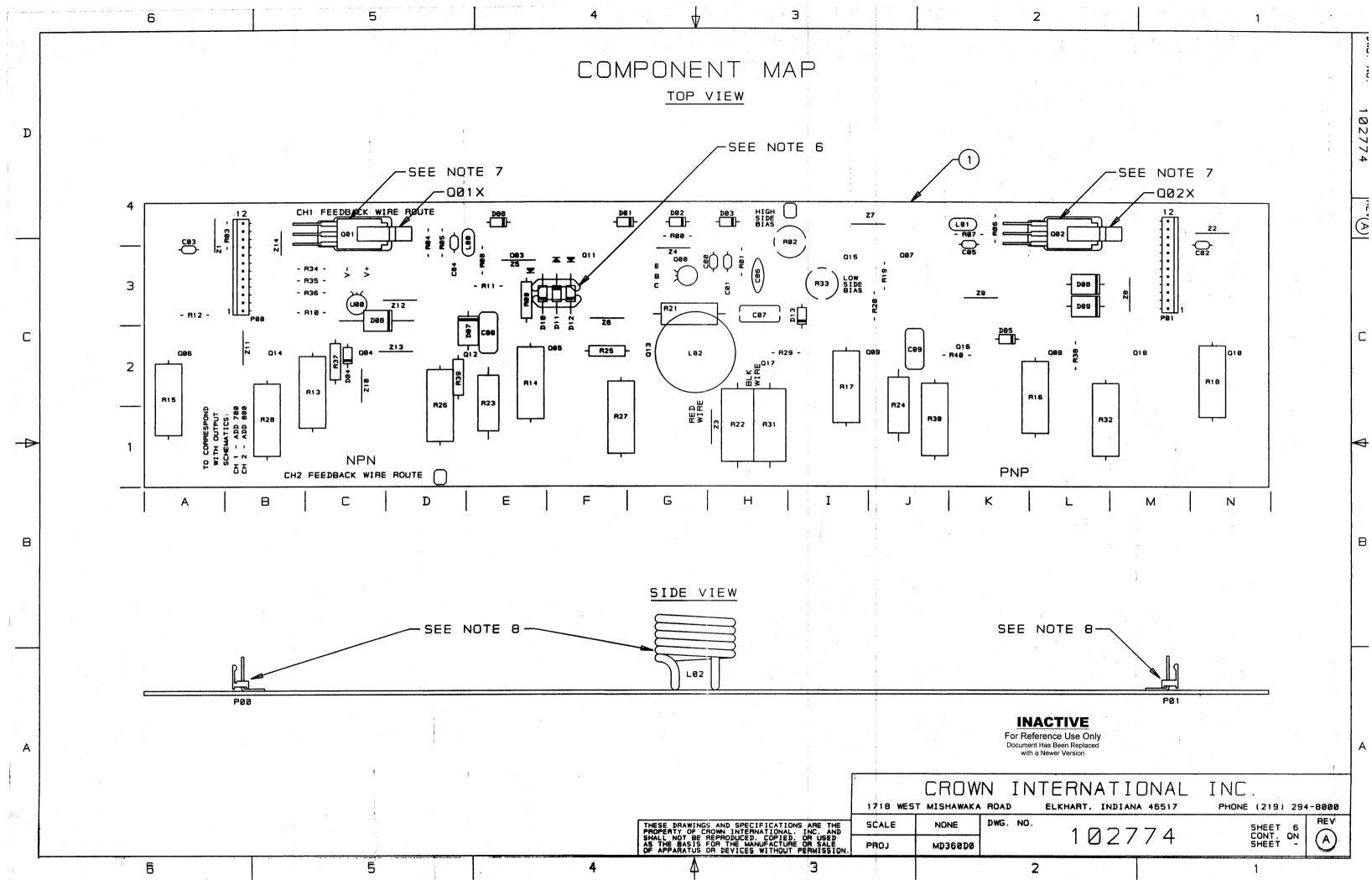
CROWN INTERNATIONAL INC PRINTS 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 PHONE (219) 294-8000 TOL. UNLESS SPECIFIED к X.XX - ± 0.020 PWA CT810A/1610A OUTPUT X.XXX = ± 0.010 DRILLS - ± 0.003 DRAWN 05/30/97 LCD APPROVED BY: DO NOT SCALE PRINT CHECKED SUPERSEDES Kw 05-30-97 ME SCALE NONE E.C.N. EE THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL. INC. AND SHALL NOT BE REPRODUCED. COPIED. OR USED AS THE BASIS FOR THE MANUFACTURE OF SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION DWG. NO. PROJ # REV MD360D0 PE -97 SHEET 1 CONT. ON Â NEXT ASSEMBLY 102774 SHEET 2

	PARTS LIS	Т	
C. P. N.	DESCRIPTION	ΩΤΥ	REFERENCE DESIGNATION
102770-1	PWB, CT10A OUTPUT, , ,	1	1
A10265-11301	113 OHM .25W 1% MF T/R	1	R35
A10266-1011	100. OHM .25W 5% CF T/R	2	R08, R19
A10266-1331	13.0KOHM .25W 5% CF T/R	2	RØ4, RØ6
A10266-2201	22.0 OHM .25W 5 CF T/R	З	R10, R11, R12
A10266-2221	2.2 KOHM .25W 5% CF T/R	1	R00
A10266-2721	2.7 KOHM .25W 5 CF T/R	2	R34,R36
A10266-2R74	2.7 OHM 2W 5% CF T/R	3	R21, R23, R24
A10266-3911	390. OHM .25W 5% CF T/R	1	RØ1
A10266-5101	51.0 OHM .25W 5% CF T/R	1	R03
A10266-7501	75.0 OHM .25W 5 CF T/R	2	R05, R07
C 2851-1	RECTIFIER, 1N4004 SILICON T/	10	D00,D01,D02,D03,D04,D05,
			D10, D11, D12, D13
C 2941-0	DIODE, 1N5402 3A 200V	4	D06,D07,D08,D09
<u>C 3510-2</u>	CHOKE, 10% AXIAL 470 UH TR	2	L00,L01
C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	14	Z1, Z10, Z11, Z12, Z13, Z14,
			Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9,
C 6486-2	0.2 OHM 5W 5% WIRE	12	R13, R14, R15, R16, R17, R18,
			R26, R27, R28, R30, R31, R32,
C 6806-1	.01UF 100V AXIAL CER T/R 103	З	C01,C04,C05
C 6807-9	.001UF 100V 10% AXL CER T/R	1	C00
C 6809-5	220PF 100V AXIAL CER T/R 221	1	CØ2
C 6810-3	180PF 100V AXIAL CER T/R 181	1	С03
C 6844-2	250 OHM LNR VERT ADJ TRIMPOT	2	RØ2,R33
C 7697-3	.01 UF 500V 1.5" LEADS DISC	1	CØ6
C 7778-1	5.6 OHM .5W 5% FU/ FP T/	2	RØ9, R25
C_7779-9	22. OHM . 25W 5% FU/FP T/R	2	R20, R29
C 8426-6	.1UF 250V 10% MET POLY RADIA	2	C08,C09
C 8511-5	0.047UF 250V 5% FILM	1	C07
C 9828-2	12 PIN MTA HDR, R/A PC MNT T	2	P00, P01
C10155-7	2SC4793 PWR NPN XSISTOR	1	QØ1
C10156-5	25A1837 PWR PNP XSISTOR	1	QØ2
C10444-5	.02 OHM 5W 3% WW RES AXL MOU	1	R22
D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDO	2	Q01X, Q02X
D 6592-6	COIL, MICROTECH OUTPUT 414W1	1	L02
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	1718 WEST MISHAWAKA RO		LKHART, INDIANA 46517 PHONE (219) 294-8
DRAWINGS AND SPECIF RTY OF CROWN INTERNA NOT BE REPRODUCED. IE BASIS FOR THE MANU PARATUS OR DEVICES W	ICATIONS ARE THE		DWG. NO.

REF DE	SC.P.N.	DESCRIPTION	MAP LOC.
1	102770-1	PWB, CT10A OUTPUT, ,	
C00	C 6807-9	.001UF 100V 10% AXL CER T/R	нз
CØ1	C 6806-1	.01UF 100V AXIAL CER T/R 103	НЗ
CØ2	C 6809-5	220PF 100V AXIAL CER T/R 221	N 4
СØЗ	C 6810-3	180PF 100V AXIAL CER T/R 181	АЭ
CØ4	C 6806-1	.01UF 100V AXIAL CER T/R 103	D 4
CØ5	C 6806-1	.01UF 100V AXIAL CER T/R 103	K 4
CØ6	C 7697-3	.01 UF 500V 1.5" LEADS DISC	НЗ
CØ7	C 8511-5	0.047UF 250V 5% FILM	НЗ
C08	C 8426-6	.1UF 250V 10% MET POLY RADIAL	E 2
CØ9	C 8426-6	.1UF 250V 10% MET POLY RADIAL	J 2
D00	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	E 4
DØ 1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 4
DØ2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 4
D03	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	H 4.
D04	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	C 2
DØ5	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	К 2
DØ6	C 2941-0	DIODE, 1N5402 3A 200V	С 3
DØ7	C 2941-0	DIODE, 1N5402 3A 200V	DЗ
D08	C 2941-0	DIODE, 1N5402 3A 200V	L 3
D09	C 2941-0	DIODE, 1N5402 3A 200V	L 3
D10	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	Е З
D11	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
D12	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
D1,3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	IЗ
L00	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	E 4
LØ1	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	K 4
L02	D 6592-6	COIL, MICROTECH OUTPUT 414W1	G 2
P00	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	В 3
PØ1	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	МЗ
000		INSTALLED ON NEXT ASSEMBLY	G 3
001	C10155-7	2SC4793 PWR NPN XSISTOR	B 4
QØ1X	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	B 4
002	C10156-5	25A1837 PWR PNP XSISTOR	K 4
002X	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	K 4
003		INSTALLED ON NEXT ASSEMBLY	Е З
004		INSTALLED ON NEXT ASSEMBLY	C 2
005		INSTALLED ON NEXT ASSEMBLY	E 2
006		INSTALLED ON NEXT ASSEMBLY	A 2
007		INSTALLED ON NEXT ASSEMBLY	L J 3
008		INSTALLED ON NEXT ASSEMBLY	L 2
209		INSTALLED ON NEXT ASSEMBLY	I 2
<u> 10</u>		INSTALLED ON NEXT ASSEMBLY	N 2
		INSTALLED ON NEXT ASSEMBLY	F 3
<u>12</u>		INSTALLED ON NEXT ASSEMBLY	F 3
<u> 13</u>		INSTALLED ON NEXT ASSEMBLY	G 2
214		INSTALLED ON NEXT ASSEMBLY	B 2
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DRAWINGS	AND SPECIFICATIONS	APE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-6

		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
015		INSTALLED ON NEXT ASSEMBLY	IЗ
016		INSTALLED ON NEXT ASSEMBLY	К 2
Q17		INSTALLED ON NEXT ASSEMBLY	H 2
Q18		INSTALLED ON NEXT ASSEMBLY	M 2
R00	A10266-2221	2.2 KOHM .25W 5% CF T/R	G 4
RØ1	A10266-3911	390. OHM .25W 5% CF T/R	НЗ
RØ2	C 6844-2	250 OHM LNR VERT ADJ TRIMPOT	H 4
RØ3	A10266-5101	51.0 OHM .25W 5% CF T/R	B 4
RØ4	A10266-1331	13.0KOHM .25W 5% CF T/R	D 4
RØ5	A10266-7501	75.0 OHM .25W 5 CF T/R	D 4
RØ6	A10266-1331	13.0KOHM .25W 5% CF T/R	K 4
RØ7	A10266-7501	75.0 OHM .25W 5 CF T/R	К 4
RØ8	A10266-1011	100. OHM .25W 5% CF T/R	EЗ
RØ9	C 7778-1	5.6 OHM .5W 5% FU/ FP T/R	Е З
R10	A10266-2201	22.0 OHM .25W 5 CF T/R	СЗ
R11	A10266-2201	22.0 OHM .25W 5 CF T/R	E 3
R12	A10266-2201	22.0 OHM .25W 5 CF T/R	A 3
R13	C 6486-2	0.2 OHM 5W 5% WIRE	
R14	C 6486-2	0.2 OHM 5W 5% WIRE	E 2
R15	C 6486-2	0.2 OHM 5W 5% WIRE	A 2
R16	C 6486-2	0.2 OHM 5W 5% WIRE	L 2
R17	C 6486-2	0.2 OHM 5W 5% WIRE	I 2
718	C 6486-2	0.2 OHM 5W 5% WIRE	
R19	A10266-1011	100. OHM . 25W 5% CF T/R	N 2
720	C 7779-9		J 3
721	A10266-2R74		J 3
121	C10444-5		G 3
722		.02 OHM 5W 3% WW RES AXL MOUNT	<u>H 1</u>
	A10266-2R74	2.7 OHM 2W 5% CF T/R	E 2
724	A10266-2R74	2 7 OHM 2W 5% CF T/R	J 1
725	C 7778-1	5.6 OHM .5W 5% FU/ FP T/R	F 2
726	C 6486-2	0.2 OHM 5W 5% WIRE	D 1
727	C 6486-2	0.2 OHM 5W 5% WIRE	F 1
R28	C 6486-2	0.2 OHM 5W 5% WIRE	B 1
729	C 7779-9	22. OHM .25W 5% FU/FP T/R	H 2
30 967	C 6486-2	0.2 OHM 5W 5% WIRE	J 1
731	C 6486-2	0.2 OHM '5W 5% WIRE	H 1
32	C 6486-2	0.2 OHM 5W 5% WIRE	L 1
233	<u>C 6844-2</u>	250 OHM LNR VERT ADJ TRIMPOT	IЗ
734	A10266-2721	2.7 KOHM .25W 5 CF T/R	СЗ
735	A10265-11301	113 OHM .25W 1% MF T/R	С 3
36	A10266-2721	2.7 KOHM .25W 5 CF T/R	С 3
37		DO NOT INSTALL	C 2
38 867		DO NOT INSTALL	
239 EEF		DO NOT INSTALL	D 2
740		DO NOT INSTALL	К 2
100		INSTALLED ON NEXT ASSEMBLY	
		FIVE	
	For Reference Document Has Be	een Replaced I CROWN INTERNATION	AL INC
	with a Newe		
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REF DES	C.P.N.	DESCRIPTION	MAP LOC.
Z1	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	A 4
 Z2	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	N 4
Z3	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	H 1
Z4	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	G 3
Z5	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	E 3
Z6	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	F3
Z7	C 5868-2	Ø OHM.25W 20 MILOHM MAX T/R	J 4
Z8	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	мз
Z9	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	КЗ
Z10	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	C 2
Z11	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	B 2
Z12	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	D 3
Z13	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	D 2
Z14	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	8 4
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	ND SPECIFICATIONS N INTERNATIONAL, I	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA	46517 PHONE (219) 294-



	70115	DEV		DATE	BY	A	PPR	JV AL	.s
E.C.N.	ZUNE	HEV.	DESCRIPTION	DATE	ы	CHK	ME	EE	PE
		•	INITIAL RELEASE	05/30/97	LCD	ĸw			тs
		B	ADDED Z16 AND Z17 0 OHM RESISTORS. NOTE 2 WAS 102770-1. NOTE 3 WAS 102774-1.	12/02/97	TLM	AU			KB
L									

UNLESS OTHERWISE SPECIFIED, THE FINISHED PWA SHALL MEET: IPC-A-610_ CLASS 2

NOTES:

- 1. SCHEMATIC DRAWING NUMBER 102773.
- 2. PWB PART NUMBER 102770-2.
- 3. PWA PART NUMBER 102774-2.
- 4. ALL LEADS SHALL BE TRIMMED ACCORDING TO ILLUSTRATION 2 OF DRAWING T10131-0 REV.A.
- 5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
- 6. AFTER WAVE SOLDERING REMOVE BREAK OUT OVAL. SEE COMPONENT MAP.
- 7. AFTER WAVE SOLDERING, INSTALL COMPONENTS Q01, Q02, Q01X AND Q02X AS FOLLOWS: - LAY THE CIRCUIT BOARD ON 0.032" SPACERS THAT ARE PLACED ON A FLAT SURFACE.
 - PLACE THE TRANSISTOR IN THE OPENING OF THE PWB. WITH THE TRANSISTOR LAYING AGAINST THE FLAT SURFACE, FORM THE TRANSISTOR LEADS TO THE PWB. THIS WILL REDUCE THE STRAIN ON THE COMPONENT LEADS.
 - SOLDER THE TRANSISTOR LEADS TO THE PADS ON THE BOARD.

SCALE

PROJ #

NEXT ASSEMBLY

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- SOLDER Q01X AND Q02X HOLD DOWN CLIPS (D 6414-3) TO THE PADS ON THE PWB AS SHOWN ON THE COMPONENT MAP TOP VIEW.
- 8. AFTER WAVE SOLDERING INSTALL COMPONENTS P00, P01 AND L02 AS SHOWN ON COMPONENT MAP SIDE VIEW. NOTE ORIENTATION OF THE COMPONENTS.
- 9. THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD IN THE PROVIDED BOX AND SHALL BE PERMANENT.

			CAI	JTIC	IN		
		STAT	IC CAN D	AMAGE (COMPONEN	TS!	
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		UNLE	ESS WRIS	T STRAF	P IS WOR	-	Reference Use Only
							Reference Ose Only
PRINTS				· · - ·	INDIANA 46		
K			81ØA/		*		TOL.UNLESS SPECIFIED X.XX = ± 0.020 X.XXX = ± 0.010 DRILLS = ± 0.003
	DRAWN	LCD	05/30/97	APPRO	VED BY:		T SCALE PRINT
	CHECKED	кw	05/30/97	ME		SUPERSED	5

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TS 06/02/97

NONE

MD360D0

E.C.N.

DWG. NO.

102774

REV

В

SHEET 1

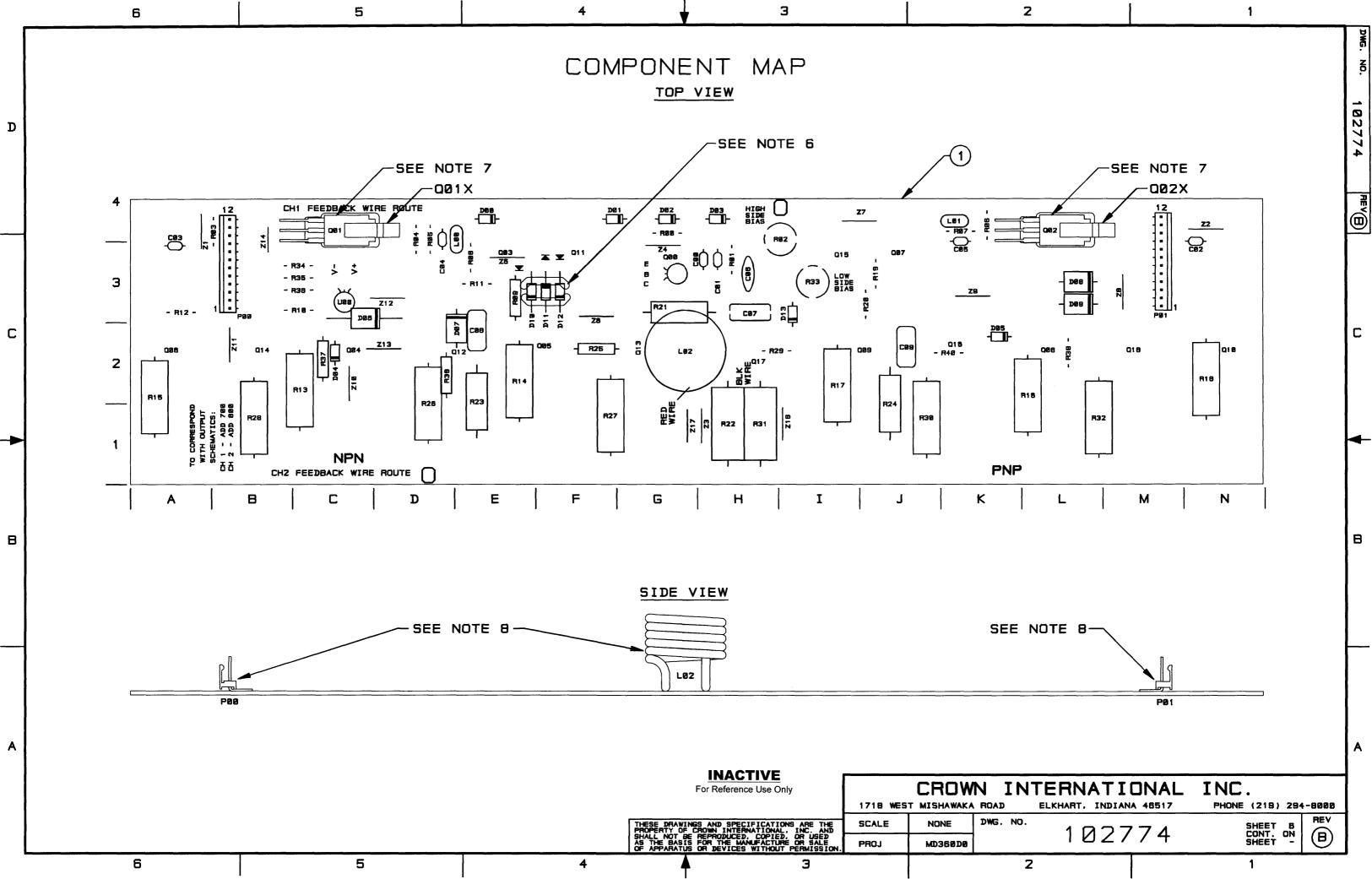
SHEET 2

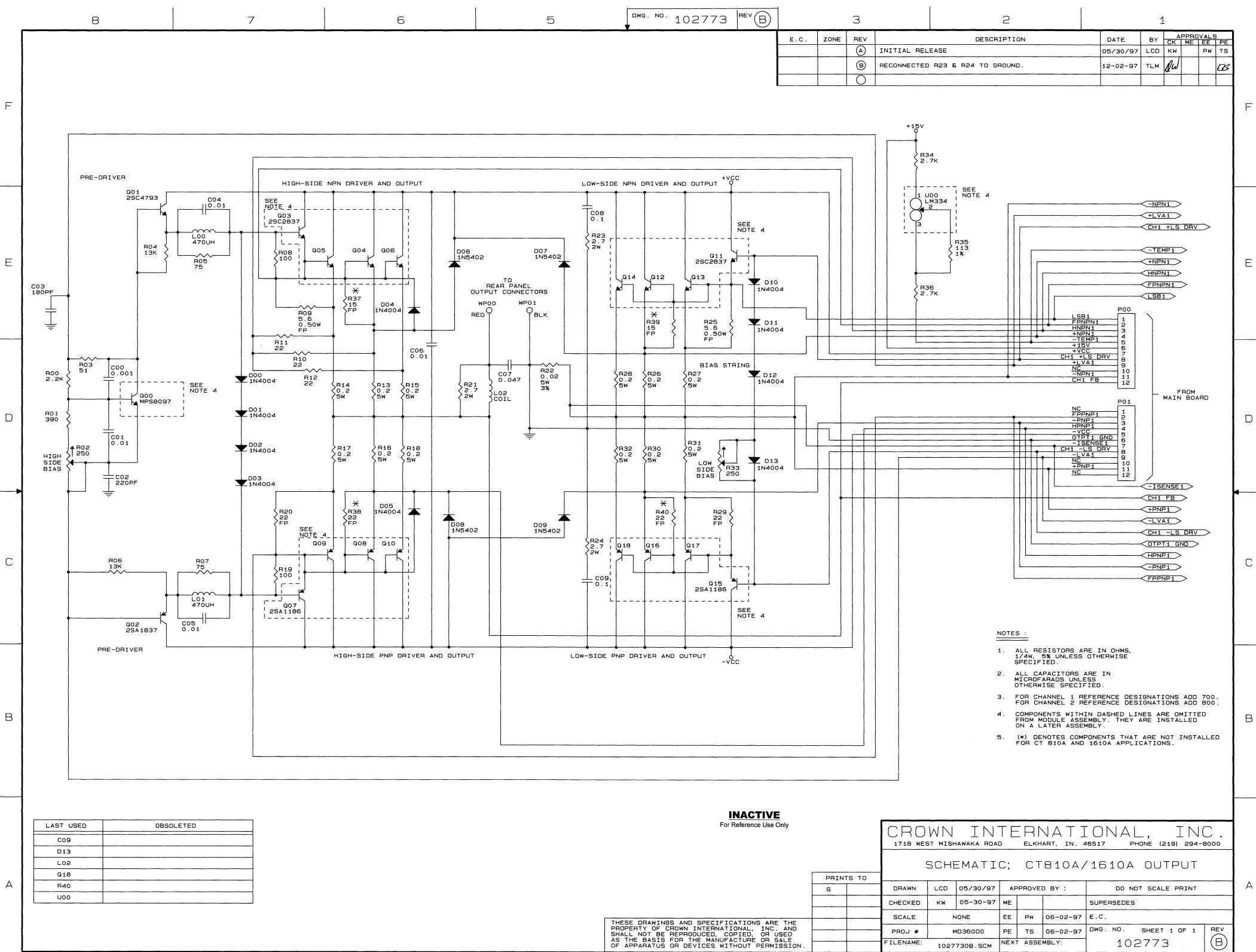
	PARTS LIS	т	
C. P. N.	DESCRIPTION	άτγ	REFERENCE DESIGNATION
102770-2	PWB, CT10A OUTPUT, , ,	1	1
A10265-11301	113 OHM .25W 1% MF T/R	1	R35
A10265-1011	100. OHM . 25W 5% CF T/R	2	R08, R19
A10266-1331	13.0KOHM .25W 5% CF T/R	2	R04, R06
A10266-2201	22.0 OHM . 25W 5 CF T/R	3	R10, R11, R12
A10266-2221	2.2 KOHM . 25W 5% CF T/R	1	R00
A10200-2221	2.7 KOHM . 25W 5 CF T/R	2	R34, R36
A10266-2721	2.7 OHM 2W 5% CF T/R	3	R21, R23, R24
A10266-3911	390. OHM .25W 5% CF T/R	1	RØ1
A10266-5101	51.0 OHM . 25W 5% CF T/R		RØ3
	75.0 OHM .25W 5 CF T/R	2	R05, R07
A10266-7501 C 2851-1	RECTIFIER, 1N4004 SILICON T/	10	D00, D01, D02, D03, D04, D05,
L 2851-1	RECTIFIER, IN4004 SILICON 17		D10, D11, D12, D13
C 2044 B			D06, D07, D08, D09
C 2941-0	DIODE, 1N5402 3A 200V	.4	
C 3510-2	CHOKE, 10% AXIAL 470 UH TR	2	
C 5868-2	Ø OHM.25W 20 MILOHM MAX T/R	16	Z1, Z10, Z11, Z12, Z13, Z14, Z16,
			Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z17
C 6486-2	0.2 OHM 5W 5% WIRE	12	R13, R14, R15, R16, R17, R18,
		<u> </u>	R26, R27, R28, R30, R31, R32,
<u>C 6806-1</u>	.01UF 100V AXIAL CER T/R 103	3	C01,C04,C05
C 6807-9	.001UF 100V 10% AXL CER T/R	1	C00
C 6809-5	220PF 100V AXIAL CER T/R 221	1	C02
C 6810-3	180PF 100V AXIAL CER T/R 181	1	СØЗ
C 6844-2	250 OHM LNR VERT ADJ TRIMPOT	2	RØ2,R33
C 7697-3	.01 UF 500V 1.5" LEADS DISC	1	C06
C 7778-1	5.6 OHM .5W 5% FU/ FP T/	2	R09, R25
C 7779-9	22. OHM .25W 5% FU/FP T/R		R20, R29
C 8426-6	.1UF 250V 10% MET POLY RADIA	2	C08,C09
C 8511-5	0.047UF 250V 5% FILM	1	C07
C 9828-2	12 PIN MTA HDR, R/A PC MNT T	2	P00, P01
C10155-7	2SC4793 PWR NPN XSISTOR	1	QØ1
C10156-5	2SA1837 PWR PNP XSISTOR	1	Q02
C10444-5	.02 OHM 5W 3% WW RES AXL MOU	1	R22
D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDO	2	Q01X,Q02X
D 6592-6	COIL, MICROTECH OUTPUT 414W1	1	L02
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	1718 WEST MICHAWAKA P		ELKHART, INDIANA 46517 PHONE (219) 294-80
E DRAWINGS AND SPECI PERTY OF CROWN INTERN L NOT BE REPRODUCED. THE BASIS FOR THE MAN NPPARATUS OR DEVICES	FICATIONS ARE THE ATIONAL, INC. AND DRAWN LCD 05.		DWG. NO. SHEET 2
			102774 CONT. ON SHEET 3

		PARTS LIST	
	5 C.P.N.	DESCRIPTION	MAP LOC.
1	102770-2	PWB, CT10A OUTPUT, ,	
	C 6807-9	.001UF 100V 10% AXL CER T/R	НЗ
	C 6806-1	.01UF 100V AXIAL CER T/R 103	НЗ
CØ2	C 6809-5	220PF 100V AXIAL CER T/R 221	N 4
CØ3	C 6810-3	180PF 100V AXIAL CER T/R 181	<u> </u>
	C 6806-1	.01UF 100V AXIAL CER T/R 103	D 4
C05	<u>C 6806-1</u>	.01UF 100V AXIAL CER T/R 103	<u>K 4</u>
CØ6	<u>C 7697-3</u>	.01 UF 500V 1.5" LEADS DISC	НЗ
	C 8511-5 C 8426-6	0.047UF 250V 5% FILM	<u>Н 3</u>
	· · · · · · · · · · · · · · · · · · ·	.1UF 250V 10% MET POLY RADIAL	E 2
	<u>C 8426-6</u>	.1UF 250V 10% MET POLY RADIAL	J 2
D00	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	<u>E 4</u>
DØ1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 4
DØ2	<u>C 2851-1</u>	RECTIFIER, 1N4004 SILICON T/R	<u> </u>
DØ3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u>H 4</u>
DØ4 DØ5	C 2851-1 C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
DØ6	C 2941-0	RECTIFIER, 1N4004 SILICON T/R DIODE, 1N5402 3A 200V	К 2
DØ8	C 2941-0	DIODE, 1N5402 3A 200V	<u>С 3</u>
DØ8	C 2941-0	DIODE, 1N5402 3A 200V	D 3
DØ9	C 2941-0	DIODE, 1N5402 3A 200V	
D03	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	
D10 D11	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	<u>E3</u>
D12	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
D13	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	F 3
	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	<u> </u>
LØ1	C 3510-2	CHOKE, 10% AXIAL 470 UH TR	
LØ2	D 6592-6	COIL, MICROTECH OUTPUT 414W1	<u> </u>
P00	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	<u> </u>
PØ1	C 9828-2	12 PIN MTA HDR, R/A PC MNT TIN	B_3
000		INSTALLED ON NEXT ASSEMBLY	M 3
 QØ1	C10155-7	2SC4793 PWR NPN XSISTOR	B 4
QØ1X	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	B 4
002	C10156-5	2SA1837 PWR PNP XSISTOR	К 4
002X	D 6414-3	CLIP CT/MA/MT/PB PRED HOLDDOWN	K 4
003		INSTALLED ON NEXT ASSEMBLY	E 3
QØ4		INSTALLED ON NEXT ASSEMBLY	
005	-	INSTALLED ON NEXT ASSEMBLY	E 2
006		INSTALLED ON NEXT ASSEMBLY	A 2
QØ7		INSTALLED ON NEXT ASSEMBLY	J_3
008		INSTALLED ON NEXT ASSEMBLY	L 2
009	-	INSTALLED ON NEXT ASSEMBLY	I 2
Q1Ø		INSTALLED ON NEXT ASSEMBLY	N 2
Q11		INSTALLED ON NEXT ASSEMBLY	F 3
Q12		INSTALLED ON NEXT ASSEMBLY	D 2
Q13		INSTALLED ON NEXT ASSEMBLY	G 2
Q14		INSTALLED ON NEXT ASSEMBLY	B 2
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	***************************************	CROWN INTERNATION	
DRAWINGS	AND SPECIFICATIONS DWN INTERNATIONAL, EPRODUCED, COPIED, DR THE MANUFACTURE R DEVICES WITHOUT P		PHONE (219) 294-1

REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
Q15		INSTALLED ON NEXT ASSEMBLY	I 3
Q16		INSTALLED ON NEXT ASSEMBLY	К 2
Q17		INSTALLED ON NEXT ASSEMBLY	Н 2
Q18		INSTALLED ON NEXT ASSEMBLY	M 2
RØØ	A10266-2221	2.2 KOHM .25W 5% CF T/R	G 4
RØ1	A10266-3911	390. OHM .25W 5% CF T/R	НЗ
RØ2	C 6844-2	250 OHM LNR VERT ADJ TRIMPOT	H 4
RØ3	A10266-5101	51.0 OHM .25W 5% CF T/R	B 4
RØ4	A10266-1331	13.0KOHM .25W 5% CF T/R	D 4
RØ5	A10266-7501	75.0 OHM .25W 5 CF T/R	D 4
R06	A10266-1331	13.0KOHM .25W 5% CF T/R	K 4
RØ7	A10266-7501	75.0 OHM .25W 5 CF T/R	K 4
R08	A10266-1011	100. OHM .25W 5% CF T/R	EЗ
RØ9	<u>C 7778-1</u>	5.6 OHM .5W 5% FU/ FP T/R	EЗ
R10	A10266-2201	22.0 OHM .25W 5 CF T/R	СЗ
R11	A10266-2201	22.0 OHM . 25W 5 CF T/R	<u>E 3</u>
R12 R13	A10266-2201	22.0 OHM .25W 5 CF T/R	<u>A 3</u>
R13 R14	C 6486-2	0.2 OHM 5W 5% WIRE	<u>C 2</u>
R15	C 6486-2 C 6486-2	0.2 OHM 5W 5% WIRE	E 2
R16	C 6486-2	0.2 OHM 5W 5% WIRE 0.2 OHM 5W 5% WIRE	A 2
R17	C 6486-2	0.2 OHM 5W 5% WIRE 0.2 OHM 5W 5% WIRE	L 2
R18	C 6486-2	0.2 OHM 5W 5% WIRE	I 2
R19	A10266-1011	100. OHM .25W 5% CF T/R	N 2
R20	C 7779-9	22. OHM .25W 5% FU/FP T/R	J3
R21	A10266-2R74	2.7 OHM 2W 5% CF T/R	J 3 G 3
R22	C10444-5	.02 OHM 5W 3% WW RES AXL MOUNT	H 1
R23	A10266-2R74	2.7 OHM 2W 5% CF T/R	E 2
R24	A10266-2R74	2.7 OHM 2W 5% CF T/R	
R25	C 7778-1	5.6 OHM .5W 5% FU/ FP T/R	F 2
R26	C 6486-2	0.2 OHM 5W 5% WIRE	D 1
R27	C 6486-2	0.2 OHM 5W 5% WIRE	F 1
R28	C 6486-2	0.2 OHM 5W 5% WIRE	B 1
R29	C 7779-9	22. OHM .25W 5% FU/FP T/R	H 2
R30	C 6486-2	0.2 OHM 5W 5% WIRE	J 1
R31	C 6486-2	0.2 OHM 5W 5% WIRE	Н 1
R32	C 6486-2	0.2 OHM 5W 5% WIRE	L 1
R33	C 6844-2	250 OHM LNR VERT ADJ TRIMPOT	IЗ
R34	A10266-2721	2.7 KOHM .25W 5 CF T/R	С 3
R35	A10265-11301	113 OHM . 25W 1% MF T/R	С 3
R36	A10266-2721	2.7 KOHM . 25W 5 CF T/R	СЗ
R37		DO NOT INSTALL	C 2
R38 R39		DO NOT INSTALL	L 2
R40		DO NOT INSTALL	D 2
U00		DO NOT INSTALL	К 2
		INSTALLED ON NEXT ASSEMBLY	СЗ
			+
			1
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DRAWINGS A	ND SPECIFICATIONS AR N INTERNATIONAL, INC RODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-
NOT BE REP	RODUCED, COPIED, OR	AND USED SALE ISSION. DRAWN LCD 05/30/97 DWG. NO. MD360D0 102774	SHEET 4

REF DES	C.P.N.	PARTS LIST	MAP LOC.
Z1	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	
Z2	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	N 4
 Z3	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	
Z4	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	<u>H 1</u>
Z5	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	<u> </u>
Z6	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	<u>E 3</u>
Z7	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	F 3
Z8	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	J 4
Z9	C 5868-2		М Э
Z10	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	КЭ
		0 OHM. 25W 20 MILOHM MAX T/R	C 2
Z11	C 5868-2	0 OHM. 25W 20 MILOHM MAX T/R	B 2
Z12	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	DЭ
Z13	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	D 2
Z14	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	B 4
Z16	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	I 1
Z17	C 5868-2	0 OHM.25W 20 MILOHM MAX T/R	G 1
			J
	For Reference Use C	CROWN INTERNAT	IONAL INC
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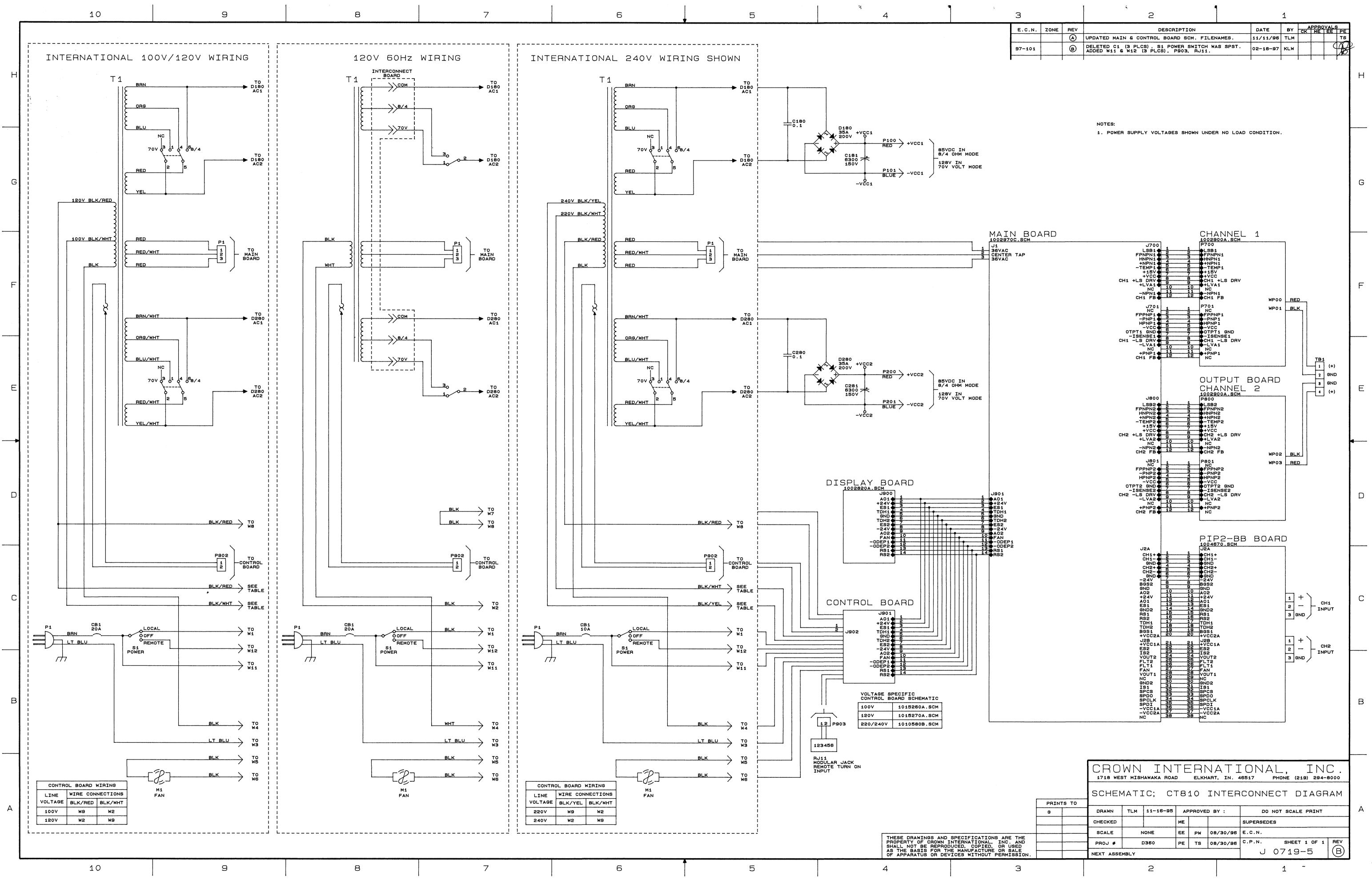


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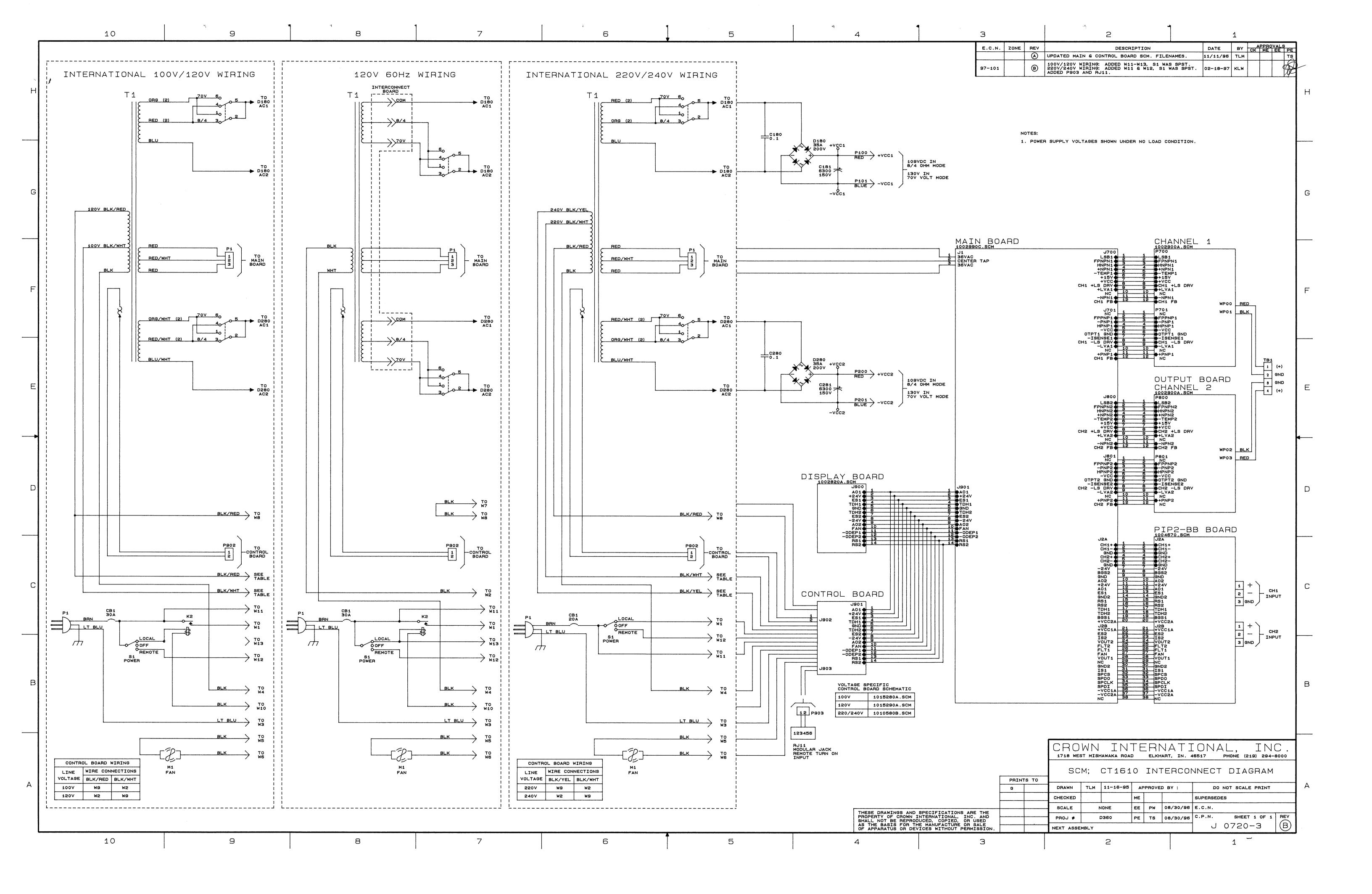
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CT810 Interconnect Diagram



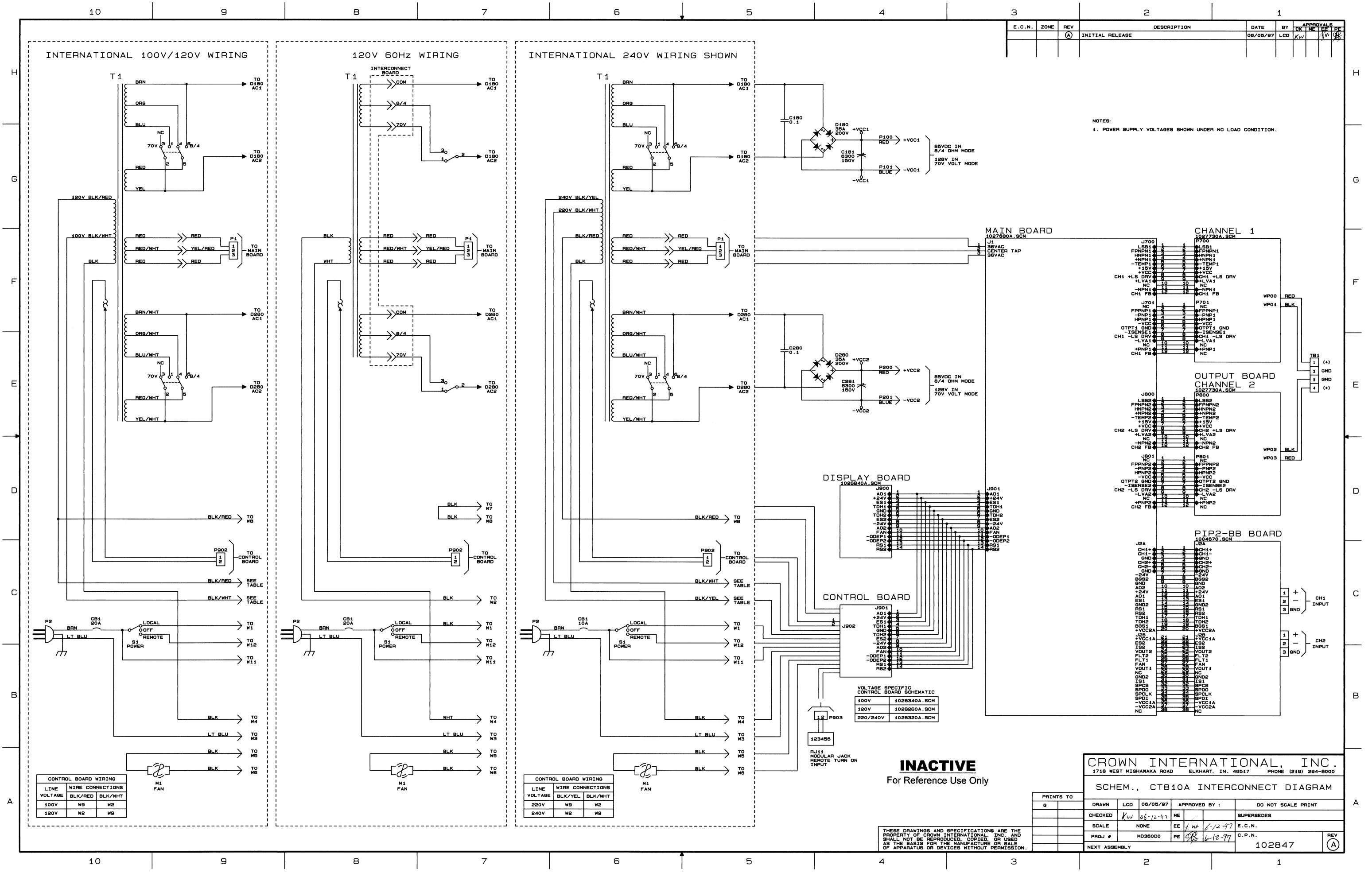


CT1610 Interconnect Diagram



CT810A Interconnect Diagram





CT1610A Interconnect Diagram



