

SERVICE MANUAL

IC-M700TY

HF TRANSCEIVER

ICOM INCORPORATED

INTRODUCTION

This service manual contains information relative to the theoretical, physical, mechanical and electrical characteristics of the IC-M700TY HF TRANSCEIVER.



ASSISTANCE

If you require assistance or further information regarding the operation and capabilities of the IC-M700TY, please contact your nearest authorized ICOM Dealer or ICOM Service Center.

ORDERING PARTS

For the fastest service, supply all of the following information when ordering parts from your dealer or ICOM Service Center:

- 1. Equipment model and serial number
- 2. Schematic part identifier (e.g., IC1012, Q801)
- 3. Printed circuit board name and number (e.g., FILTER UNIT/B-888C)
- 4. Part number and name (e.g., 2SC1971 Transistor)
- 5. Quantity required

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SECTION 1 SPECIFICATIONS

1-1 GENERAL

Frequency coverage : Receive : 1.6 MHz~23.9999 MHz

Transmit: 2.0 MHz~ 2.9999 MHz

4.0 MHz~ 4.9999 MHz 6.0 MHz~ 6.9999 MHz 8.0 MHz~ 8.9999 MHz 12.0 MHz~13.9999 MHz 16.0 MHz~17.9999 MHz

22.0 MHz~22.9999 MHz

Frequency control : CPU based 100 Hz step digital PLL synthesizer.

Independent transmit/receive frequency programmable on any band.

Frequency readout : 6 digit 100 Hz readout

Frequency stability : Less than \pm 10 Hz in the range -30° C \sim $+60^{\circ}$ C

Memory channel capacity : 64 simplex or semi-duplex channels

(owner programmable)

Power supply requirements : DC 13.6V±15% (negative ground)

Current drain 30A max.

AC power supply available for AC operation.

Current Drain : Receiving Standby : 1.2A

Max. audio output: 1.6A

Transmitting Maximum : 30A

Antenna impedance : 50 ohms unbalanced

Weight : 7.3kg (16.1 lb)

Dimensions : $287(297) \text{ mm}(W) \times 112(124) \text{ mm}(H) \times 356(376) \text{ mm}(D)$

Bracketed values include projections.

1-2 TRANSMITTER

Emission modes : J3E (A3J) USB, LSB

H3E (A3H) AM A1A (A1) CW F1A (F1) FSK

RF output power : 150W

Spurious emissions : 65dB below peak power output.

Carrier suppression : 50dB

Unwanted sideband : -55dB with 1000Hz AF input.

 $\mbox{Microphone} \qquad \qquad : \ \, 600\Omega, \ \, \mbox{noise cancelling microphone with push-to-talk switch}.$

1-3 RECEIVER

Receive system : Double conversion superheterodyne

Receive modes : J3E (A3J) USB, LSB

A3E (A3) AM A1A (A1) CW F1A (F1) FSK

Intermediate frequencies : SSB, CW, FSK 1st 70.4515MHz 2nd 9011.5kHz

AM 70,4500 MHz 9010.0 kHz

Sensitivity : SSB, CW, FSK 0.5 µV for 12dB SINAD

AM 2.0 μV for 12 dB SINAD

 $Selectivity \hspace{1.5cm} : SSB \hspace{1.5cm} 2.3\,kHz/-6\,dB, \hspace{1.5cm} 4.2\,kHz/-60\,dB$

AM 6.0 kHz/-6dB, 20.0 kHz/-60dB CW, FSK* 0.5 kHz/-6dB, 1.6 kHz/-60dB

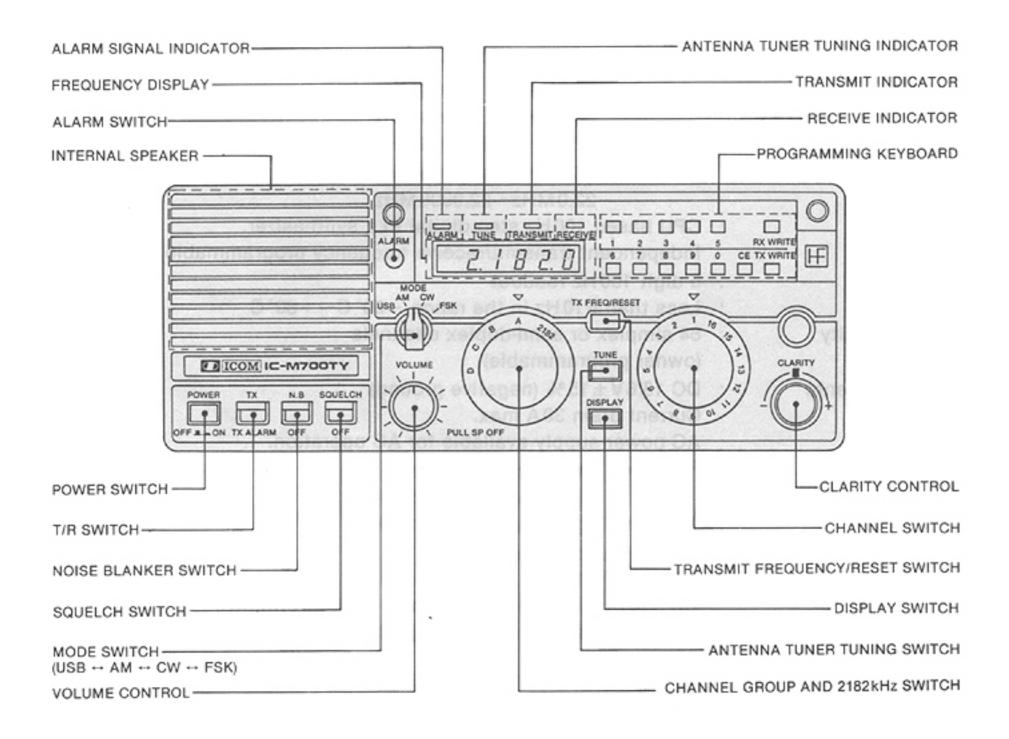
Spurious and image rejection : $70 \, \text{dB}$ Clarity control range : $\pm 150 \, \text{Hz}$

Audio output : 5W into 4Ω with 10% distortion

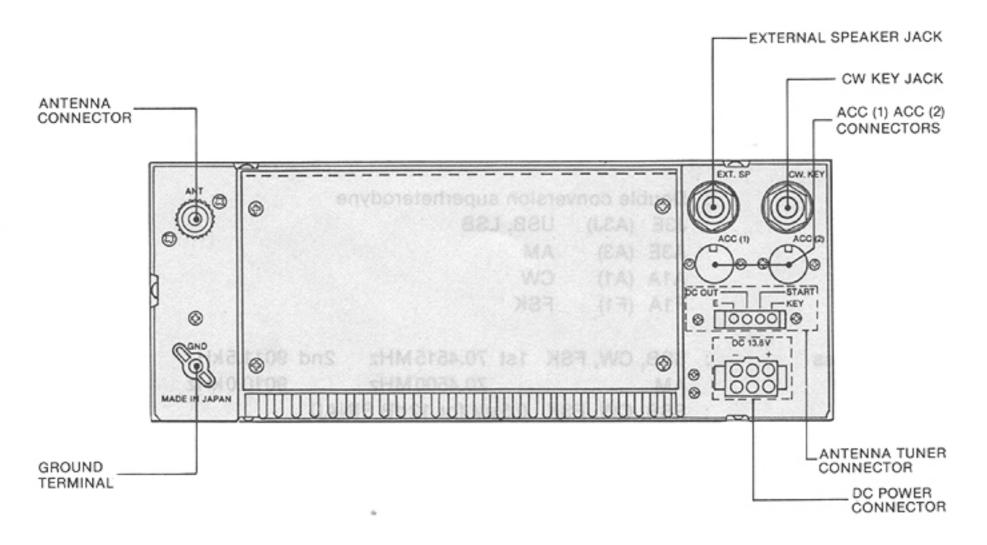
AF output impedance : $2\sim 8\Omega$

^{*}Bandwidth for 170Hz shift FSK operation. Internal switches available for 425Hz and 850Hz shift FSK operation.

2-1 FRONT PANEL

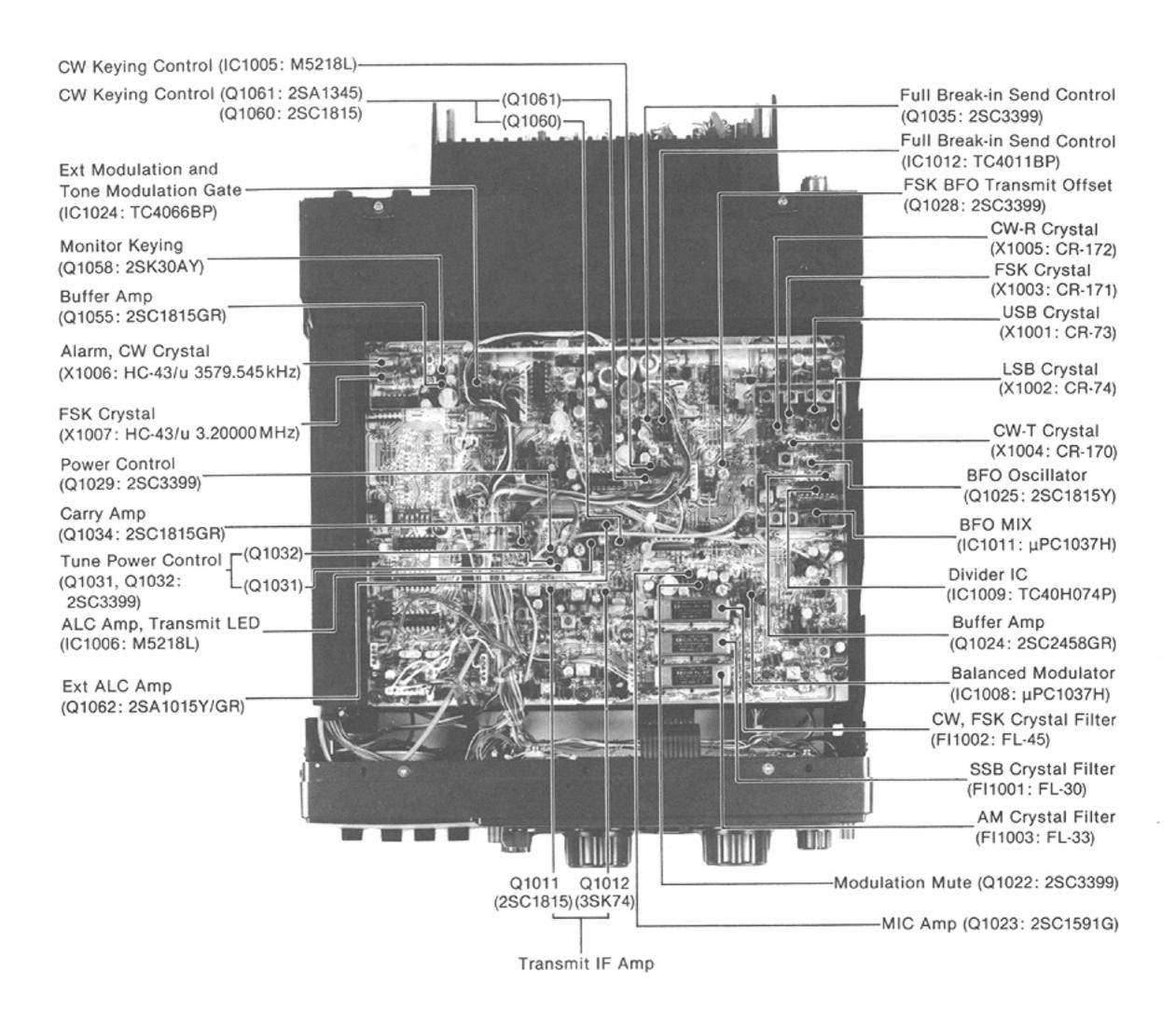


2-2 REAR PANEL



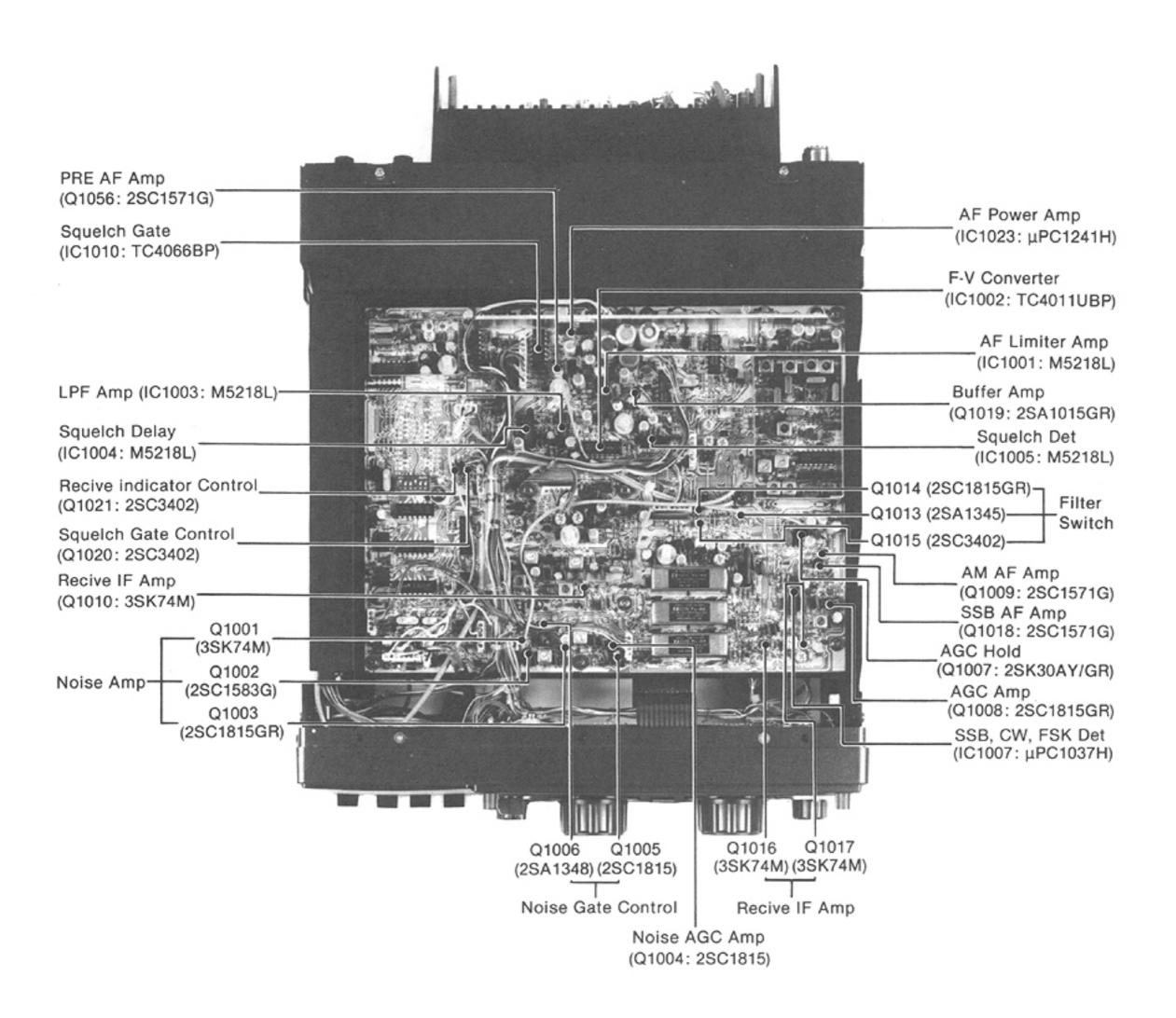
2-3 INSIDE TOP VIEW (MAIN UNIT)

TRANSMIT MODE



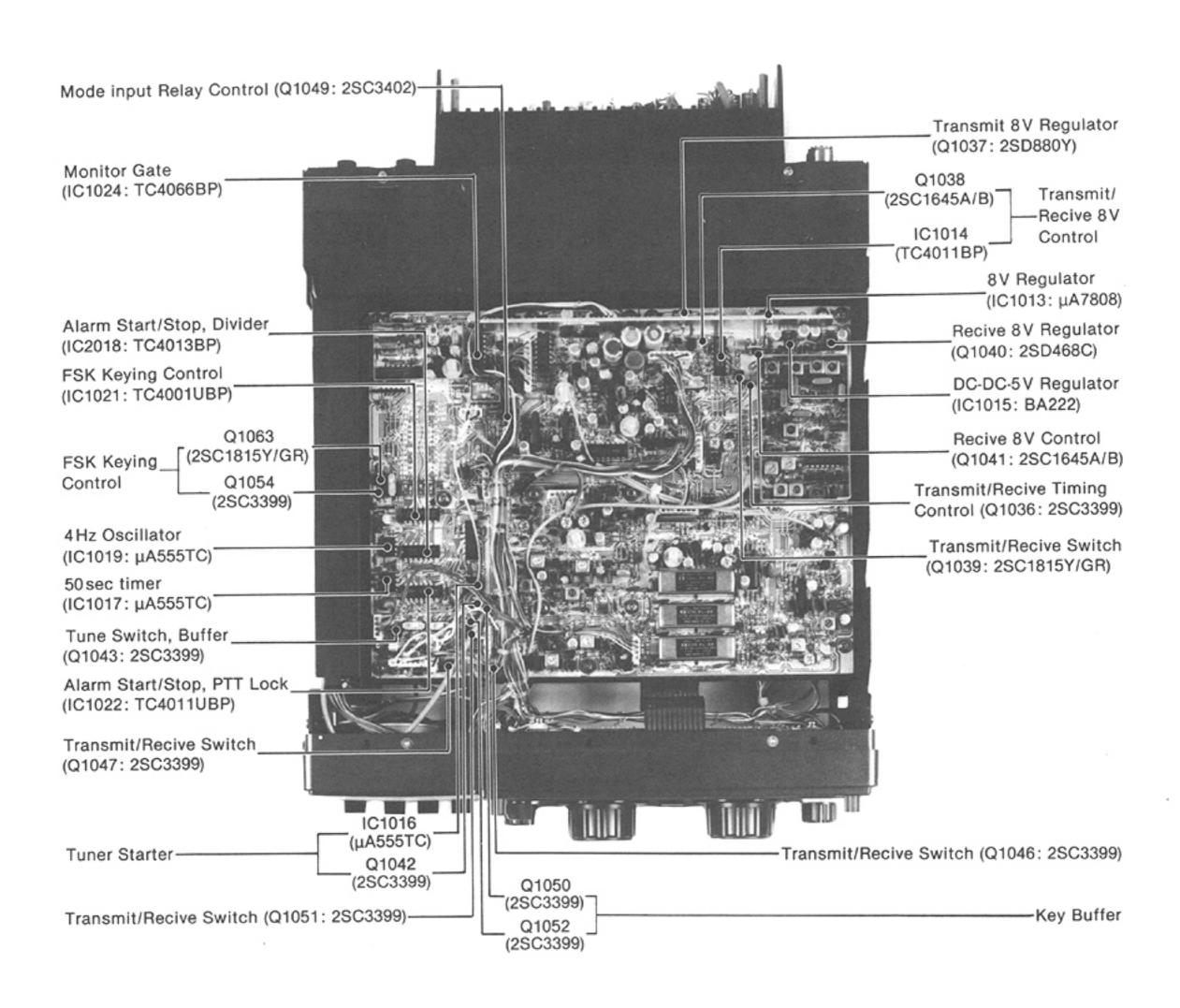
2-4 INSIDE TOP VIEW (MAIN UNIT)

RECIVE MODE

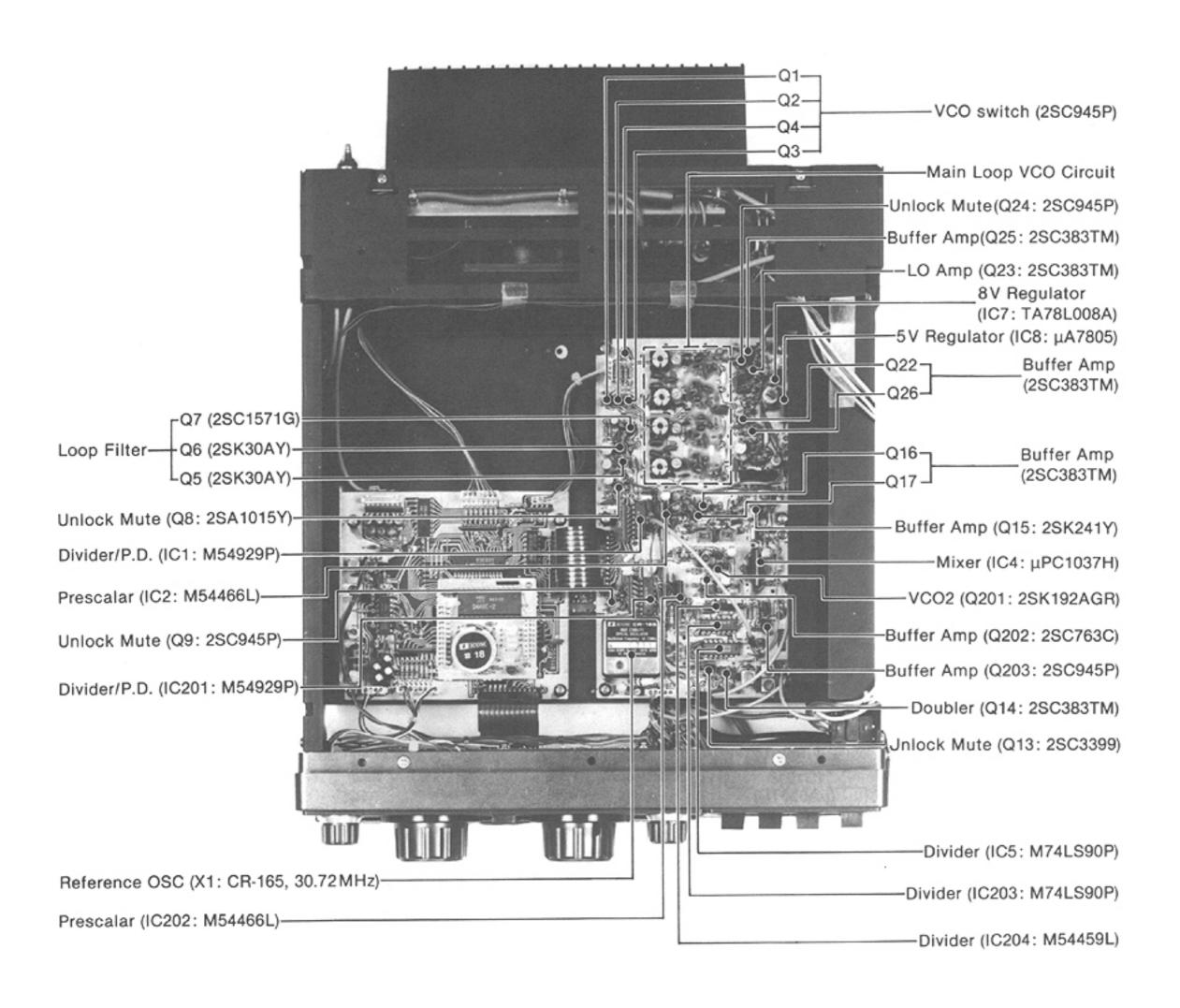


2-5 INSIDE TOP VIEW (MAIN UNIT)

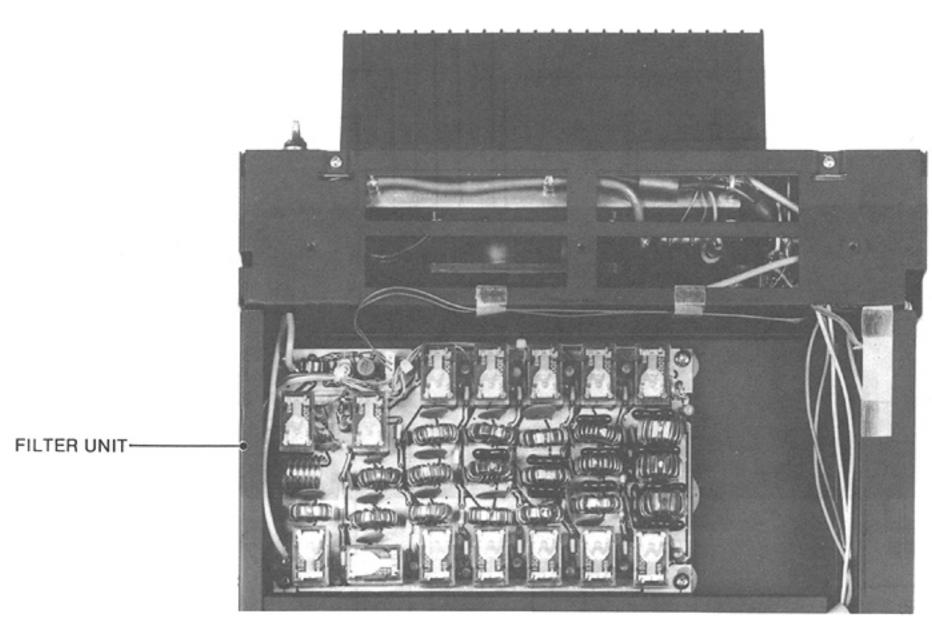
MISCELLANEOUS

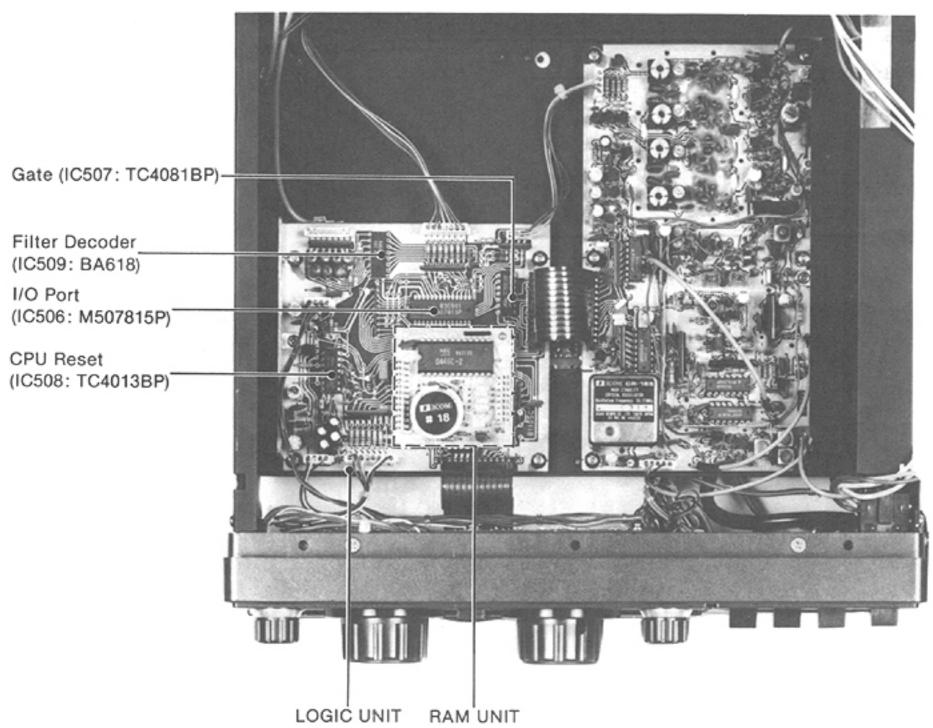


2-6 INSIDE BOTTOM VIEW (PLL UNIT)

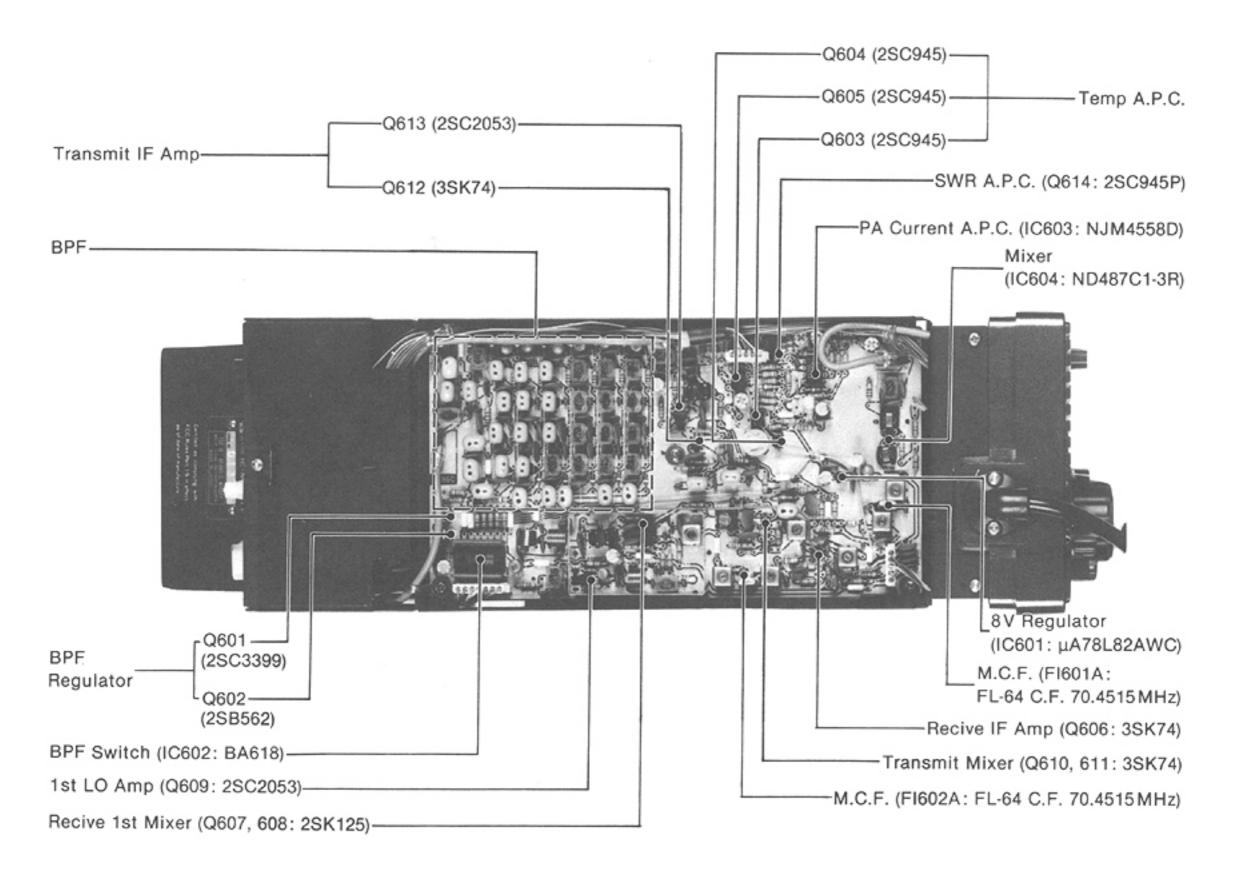


2-7 INSIDE BOTTOM VIEW (LOGIC UNIT AND FILTER UNIT)

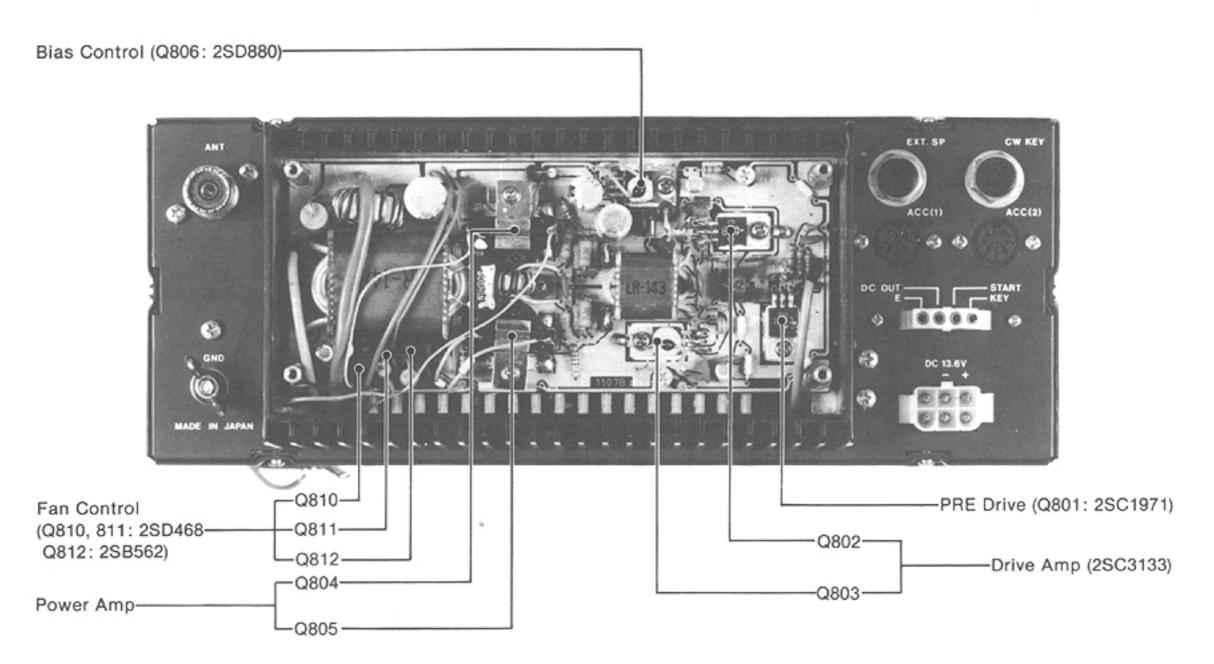


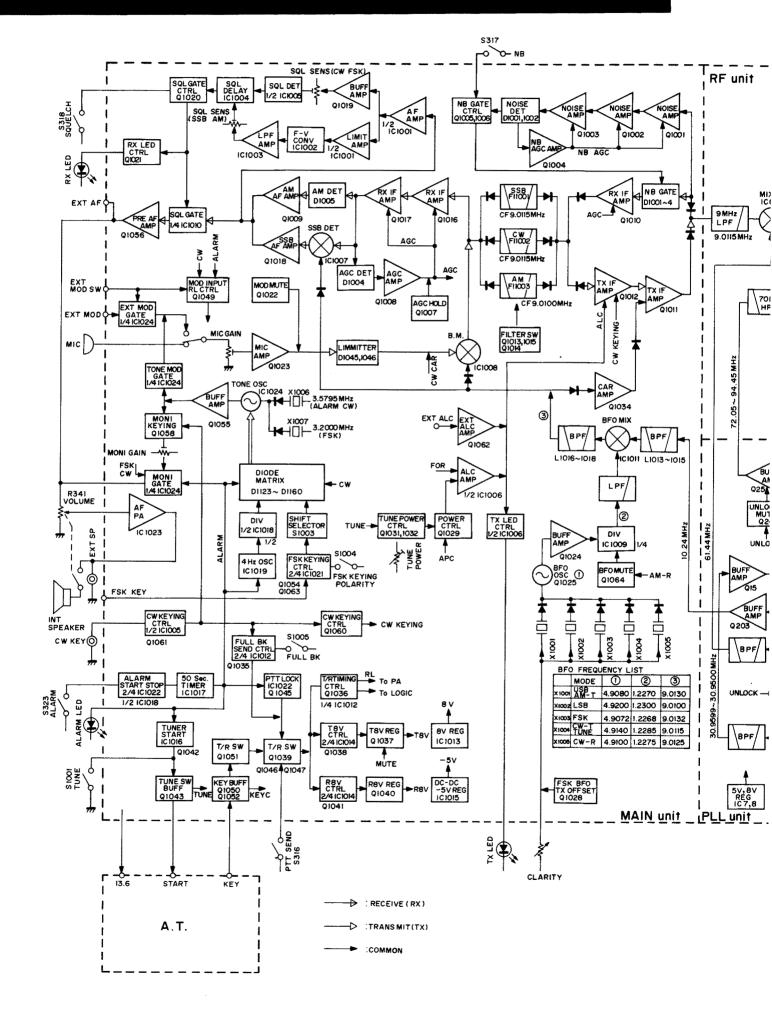


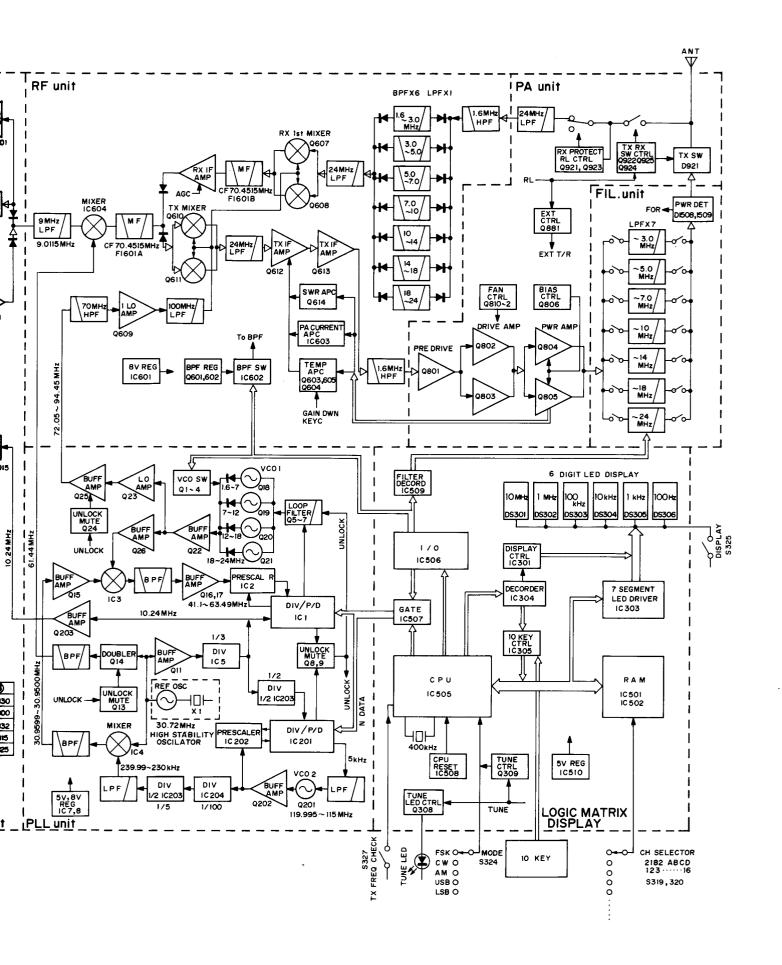
2-8 RF UNIT



2-9 PA UNIT







4-1 RECEIVER CIRCUITS

4-1-1 RF CIRCUITS (RF UNIT)

The received signal is passed from J606 through the 1.6 MHz high-pass filter consisting of L666 \sim L668 and C736 \sim C741. After the strong broadcast signals are removed, the signal passes the filter which is designed for passing the desired frequency. This filter is switched by D606 \sim D619 from among 6 bandpass filters and 1 low-pass filter.

These 7 filters are designed for the following bands:

BAND	FILTER
1.6MHz~3.0MHz	B1
3MHz∼ 5MHz	B2
5MHz∼ 7MHz	В3
7MHz∼ 10MHz	B4
10MHz~ 14MHz	B 5
14MHz~ 18MHz	В6
18 MHz~ 24 MHz	B7

Then the interference of image frequency is removed and the 1st and 2nd local oscillator frequencies leaking to the ANT terminal are suppressed by the low-pass filter consisting of L620, L621, C638~C641, and C743. The signal is then fed to the 1st mixer.

The 1st mixer, featuring low noise and high dynamic range, consists of JFETs Q607 and Q608, and converts the receiving signal into the 1st IF signal of 70.4515 MHz. The 1st local oscillator frequency (70.4515 MHz higher than the receiving frequency) from the PLL unit passes the high-pass filter, is amplified by Q609, has its harmonics removed by the low-pass filter, and is applied to the gates of Q607 and Q608.

The signal, converted to 70.4515 MHz, passes mechanical crystal filter FI601-B, is amplified by Q606, passes a receive/transmit switching diode D604 and a

mechanical crystal filter Fl601-A, and is fed to the 2nd mixer.

The total passband of both FI601-A and FI601-B is $70.4515\,\text{MHz}\pm\ 7.5\,\text{kHz}/-3\,\text{dB}$. The AGC voltage is applied to the 2nd gate of Q606.

The 2nd mixer is a diode DBM (double balanced mixer), IC604 and is injected with the 2nd local oscillator frequency of 61.44MHz from the PLL UNIT. The 70.4515MHz IF signal is converted to the 2nd IF signal (9.0115MHz) and is fed to the MAIN UNIT.

4-1-2 9.0115 MHz IF CIRCUIT (MAIN UNIT)

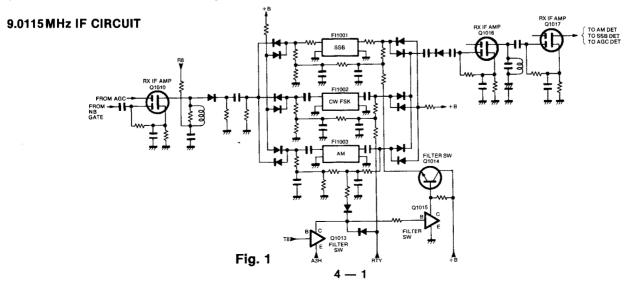
The signal, converted to 9.0115MHz by the 2nd mixer in the RF UNIT, is amplified by Q1010 after the mixer's spurious components are removed by the double tuned circuit of L1005 and L1006.

FI1001 (SSB), FI1002 (CW, FSK), and FI1003 (AM) are crystal filters and their passbands are $2.3\,\mathrm{kHz}/-6\,\mathrm{dB}$, $500\,\mathrm{Hz}/-6\,\mathrm{dB}$ and $6\,\mathrm{kHz}/-6\,\mathrm{dB}$, respectively. Q1013 \sim Q1015 switch among these three filters so that FI1001 (SSB) is selected when the mode switch is set to J3E (A3J), FI1002 (CW, FSK) is selected when the mode is A1A (A1) and FI1003 (AM) is selected when the mode is H3E (A3H).

Switching of filters during mode selection is carried out by Q1013 \sim Q1015. During FSK reception, the filters must be switched according to the shift width of the reception signal.

Switching of the filters is carried out by changing the position of jumper (J1015). FI1002 (CW, FSK) must be selected when the shift width of the FSK reception signal is 170Hz, and FI1001 (SSB) must be selected when the shift width of the FSK reception signal is 425Hz or 850Hz.

The 2nd IF signal, amplified by Q1016 and Q1017, is fed to the detector and the AGC circuits.



4-1-3 DETECTOR CIRCUIT AND AF PREAMPLIFIER

The J3E (A3J), A1A (A1) and F1A (F1) signals are converted to AF signals at IC1007 and amplified at the AF amplifier Q1018.

The H3E (A3H) signals are converted to an AF signal at the diode detector D1005 and amplified at the AF amplifier Q1009.

These outputs are fed to the audio controlled squelch circuit. During transmission the local oscillation signal applied to IC1007 from BFO is stopped by turning D1037 OFF. Also, during H3E (A3H) reception output of the signal from IC1007 is stopped by stopping the BFO oscillation.

4-1-4 NOISE BLANKER CIRCUIT (MAIN UNIT)

A portion of the 2nd IF signal (9.0115MHz) from L1005 and L1006 is fed to the noise amplifier, Q1001~Q1003. This signal is amplified by approximately 80dB at Q1001, Q1002 and Q1003 and then rectified by D1001 and D1002. Q1004 is the AGC amplifier for the noise amplifiers and adjusts the gain of the noise amplifiers approximately 50dB.

The gate control circuit consists of Q1005~Q1006. This circuit turns the balanced noise gate consisting of D1011~D1014 ON and OFF by the voltage obtained from D1001 and D1002.

4-1-5 AGC CIRCUIT (MAIN UNIT)

The reception signal amplified at Q1017 is rectified at D1004 and is then amplified at Q1008. When signals are not being received, the output voltage (AGC voltage) of Q1008 is set to approximately 4V by R1021 and R1022. During reception of signals, the output voltage (AGC voltage) of Q1008 drops.

The AGC time constant is set to the fast attack/slow release by R1027, R1026, C1019, and C1018.

When transmission is selected from reception, the AGC voltage output from Q1008 during reception is held by Q1007. This prevents AGC voltage fluctuation each time reception is selected when receive/transmit switching is carried out during a short time (for example, during full break-in operation).

4-1-6 BFO CIRCUIT (MAIN UNIT)

The 9MHz local oscillator signal output from IC1011 (BFO mixer) is generated by mixing the signal obtained by dividing the 30.72MHz output of the PLL UNIT reference oscillator circuit (X1) into 1/3 and the 1.2MHz signal obtained by dividing the 4.9MHz output of the BFO circuit into 1/4.

The BFO circuit consists of X1001~X1005 and Q1025, and uses the necessary crystals in X1001~X1005 to oscillate frequencies in accordance with the various modes, reception and transmission.

The BFO circuit output is divided by 4 at IC1009 and becomes a 1.2 MHz signal. This 1.2 MHz signal and the 10.24 MHz signal from the PLL UNIT are mixed at IC1011 to become the 9 MHz local oscillation signal which is fed to IC1007 (SSB detector), IC1008 (balanced modulator) and Q1034 (carrier amplifier).

Varicaps (D1051, D1053, D1055, D1057 and D1060) are connected respectively in series to X1001~X1005. The DC voltage applied across these varicaps can be adjusted by the CLARITY CONTROL (R342) on the FRONT PANEL. This enables clarifier operation during reception.

For H3E (A3H) reception, the dividing operation of IC1009 is stopped to prevent beat reception.

A low-pass filter and double tuned circuit is connected to IC1011 (pin 3) to remove spurious signals from the output signal of IC1011.

4-1-7 SQUELCH AND RECEIVE INDICATOR CIRCUITS (MAIN UNIT)

For A1A (A1) and F1A (F1) reception, the signal that has been detected and amplified is amplified at $IC1001^{1}/_{2}$, is further amplified at buffer amplifier (Q1019) and detected at $IC1005^{1}/_{2}$. A time constant is obtained at C1101 for holding the voltage detected at $IC1005^{1}/_{2}$. This detected voltage is then input to IC1004.

For J3E (A3J) and H3E (A3H) reception, the signal that has been detected and amplified is further amplified, oscillated and limited at IC1001¹/₂, and triggers the one shot multi vibrator comprising IC1002. The mean voltage of the output pulse signal of IC1002 is proportional to the number of pulses per unit time. (In other words, IC1002 operates as an F-V converter.)

The output signal from IC1002 passes through the low-pass filter (IC1003¹/₂) which filters frequencies approximately 3.5 Hz and below, is further inverseamplified (gain set at 0dB) at IC1003¹/₂, full-wave rectified at D1006 and D1007, and input to the comparator (IC1004). The output voltage of comparator (IC1004) is charged to C1101 and held.

The output signal of IC1005 is applied to the base of Q1020, and the output from the collector of Q1020 controls the squelch gate (IC1010). At the same time, illumination of the RECEIVE INDICATOR (DS307) is controlled by the output from the collector of Q1020.

4-1-8 AF POWER AMPLIFIER (MAIN UNIT)

After passing through the squelch gate (IC1010), the AF signal is amplified at Q1056, passed through the VOLUME CONTROL (R341) on the FRONT PANEL and applies to the AF power amplifier (IC1023). IC1023 is an audio power amplifier from which an output of 5W or more can be obtained. IC1023 has a low impedance output and has sufficient drive even if a 4Ω speaker is externally connected in parallel with the built-in 4Ω speaker.

4-2 TRANSMITTER CIRCUITS

4-2-1 9.0115 MHz IF CIRCUIT AND BALANCED MODULATOR (MAIN UNIT)

During H3E (A3H) and J3E (A3J) transmission, the AF signal from the microphone amplifier (Q1023) is modulated at the DBM (IC1008), passed through FI1001 (SSB) filter and becomes the J3E (A3J) signal.

During H3E (A3H) transmission, the output signal from BFO mixer (IC1011) is amplified at carrier amplifier (Q1034), passed through FI1001 (SSB) filter added to the signal amplified at Q1012 as the carrier signal to

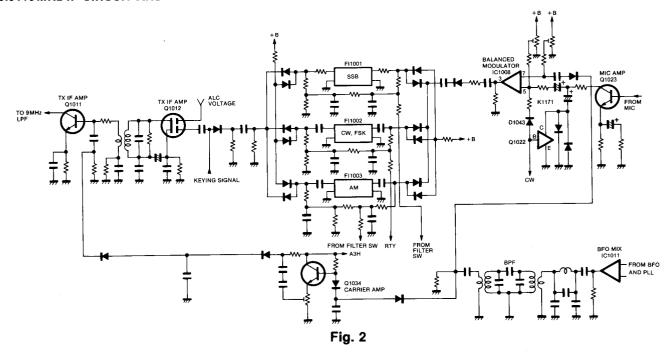
become the H3E (A3H) signal.

When the CW mode and the automatic tuning function are in operation, the "High" level signal is applied to the base of Q1022 to turn Q1022 ON. At the same time it mutes the signal from the microphone amplifier (Q1023), DC voltage is applied via D1043 and R1171 to IC1008 (pin 5) to change the DC balance between the input terminals of IC1008. By changing the DC balance between the input terminals of IC1008, the output signal of the BFO mixer (IC1011) is applied to IC1008 (pin 7) via D1047.

During A1A (A1) and F1A (F1) transmission, the signal passes through F11002 (CW and FSK) filter. (However, this is applicable to F1A (F1) when the frequency shift width is set to 170 Hz.)

After passing through filters FI1001 \sim 1003, the signal is amplified at Q1012 and Q1011, passed through P1001 and is sent to the RF UNIT. ALC voltage is applied to the 1st gate of Q1012, or the keying signal during the CW mode is applied to the 2nd gate from the keying circuit.

9.0115 MHz IF CIRCUIT AND BALANCED MODULATOR



4-2-2 RF CIRCUITS (RF UNIT)

The 9MHz transmitting output signal from the MAIN UNIT is mixed with the 61.44MHz local oscillator signal at L611~L612 and IC604, and converted to the 70.4515MHz IF signal. The spurious components are removed at the crystal filter FI601-A. The signal passes the transmit/receive switching diode D605 and attenuator R645~R647, then enters the transmitting mixer.

The attenuator acts as a matching network between

FI601-A and the mixer and improves the mixer's frequency characteristics.

The transmitting mixer of Q610 and Q611 is fed the local oscillator signal which goes into the 2nd gate. To improve the frequency characteristics, the output has a resistive load of approximately 500Ω so that the frequency characteristics are not affected at the output, and the signal is sent through the 25 MHz low-pass filter of L629, L630 and C664 \sim C668, then fed to Q612.

The FET amplifier Q612 has an input impedance of 470Ω to match the low-pass filter. The drain also has a resistive load. The 2nd gate of Q612 is applied with a control voltage for protection against overcurrents and high SWR, and to control output power.

The output of Q612 is amplified by Q613. To improve the frequency characteristics at Q613, the impedance between Q612 and Q613 is low so input capacitance can be ignored. Further, to compensate the frequency characteristics at the output, C673 is added to the emitter.

The output of Q613, after passing the 1.6 MHz high-pass filter, passes through the attenuator of R670 \sim R672 and is output to the PA UNIT. The attenuator acts as a buffer to the PA UNIT. This output is approximately +6dBm when the output is 150 W.

To get stable operation, the transmitting circuits are supplied with T8V regulated power supply from the MAIN UNIT. The local oscillator frequency amplifier circuit also is supplied with an 8V regulated power supply from IC601.

4-2-3 PA PROTECTION CIRCUIT (RF UNIT)

The voltage of the 2nd gate of Q612 is lowered and the gain is reduced for lower power to protect the final transistors from a temperature rise caused by increased collector loss of the final transistors and overcurrent due to high SWR. This is accomplished by the circuit of IC603, Q605, and Q614.

IC603B is a differential amplifier and amplifies the potential difference generated at R871 (located in the PA UNIT) due to the current flowing through the PA UNIT. Q614 buffers the reflected wave voltage from the SWR detector circuit in the FILTER UNIT. If either or both voltages exceed the voltage determined by R614 and R681, the inverted amplifier IC603A begins amplification. Normally, the output voltage of IC603B is determined by R614 and R681~R684. The voltage is lowered due to overcurrent or high SWR and the transmitting power is also lowered.

When the temperature rises, the voltage from J602 pin 4 (POL) turns Q605 ON. The output voltage from IC603B is divided by R620 and R621 to lower the voltage and the power is lowered.

Further, when the antenna tuner is connected, the key signal turns Q603 OFF and Q604 ON. The tuning power is set by the voltage divided by R620 and R619.

4-2-4 PA UNIT

This unit consists of 4 boards (PA, ANT SW, DIN and JACK) and the rear panel chassis to which they are attached.

The PA board is a linear amplifier with an output of 150W and amplifies the transmitting signal from the RF UNIT. The ANT SW board performs antenna switching for transmit/receive and has a protection circuit to prevent damage to the receiving unit caused by a strong input during receive when the output of an adjacent transmitter is induced by the antenna. The connector board and rear panel chassis holds the various boards and the wiring for the connectors mounted on the rear panel chassis.

4-2-5 PA CIRCUIT (RF UNIT) (See fig. 3)

The power amplifier is a 3-stage wide band linear amplifier and consists of a class A single amplifier for the input stage and class AB push-pull amplifiers for the driver and final stages. This unit produces an output of 150W PEP with an input of approximately $+6\,\mathrm{dBm}$ PEP. Further, each stage uses negative feedback and RC frequency compensation for a total gain variation of $\pm 1.5\,\mathrm{dB}$ or less (at an output of 55W).

4-2-6 BIAS CIRCUIT (PA UNIT) (See fig. 3)

Although the input stage has a fixed bias due to the class A operation, the driver and final stages have adjustable biases due to their class AB operation.

The bias of the driver stage is adjusted by varying the current flowing through D801 with R827. Further, D801 and Q803 are thermally coupled to minimize the variations of the idling current due to temperature changes.

The final stage is provided with emitter follower Q806 since the current flow is greater than in the driver stage. The bias of the final stage is adjusted by varying with R823 the current flowing through D802 and D804. D804 compensates for the voltage drop between the base and emitter of Q806. D802 and Q804 are thermally coupled with Q806 for stability.

4-2-7 THERMAL PROTECTION CIRCUIT (PA UNIT)

To prevent the final transistors (Q804, Q805) from excessive temperature rises and damage due to continuous transmitting, thermal switches S801 and S802 are thermally coupled to Q804 and Q805, respectively. When the temperature rises, the fan motor provided for the heat sink is turned on for forced air cooling. The fan motor rotates at intermediate speed during transmission.

S801 is a 80°C thermal switch and turns on the fan for high speed when Q804 reaches approximately 80°C. S802 is a 110°C thermal switch and turns on when Q804 reaches approximately 110°C. Then the HTP voltage is supplied to the RF UNIT to lower the transmitting output to approximately 60W.

Even when reception is selected from transmission, the fan motor continues rotating at low speed if the temperature of Q804 is at 80°C or more, namely when S801 is ON.

4-2-8 ANTENNA SWITCHING CIRCUIT (ANTENNA SWITCH UNIT)

D921 and RL922 carry out antenna switching for transmission and receive.

During transmission, the transmission signal supplied from the FILTER UNIT is input from P922 by turning ON of D921, passed through D921 and input to the antenna connector (J922).

During reception, the reception signal input from the antenna connector (J922) is passed through RL922, C924, RL921 and low-pass filter by turning ON of RL922, and input to the J606 of the RF UNIT from P921.

A low-pass filter with a cut-off frequency of approximately 30 Hz consisting of L921, L922, C921 and C922 operates to prevent incidental radiation from the antenna during reception.

The antenna connector (J922) is provided with a surge absorber to prevent damage to the transmitting and receiving circuits caused by high voltages such as from lightning induction.

If a reception signal of 1W or more is input to the antenna connector (J922) during reception, the

resultant voltage generated at D923 is applied to Q921 to control Q923 and Q924. This controls RL921, the connection between the antenna and the RF UNIT is not maintained, and the receiving circuits are protected.

4-2-9 FILTER CIRCUIT (FILTER UNIT)

This unit is located between the PA UNIT and the antenna connector and suppresses the harmonics found in the transmitting output from the PA UNIT to -65dB or below.

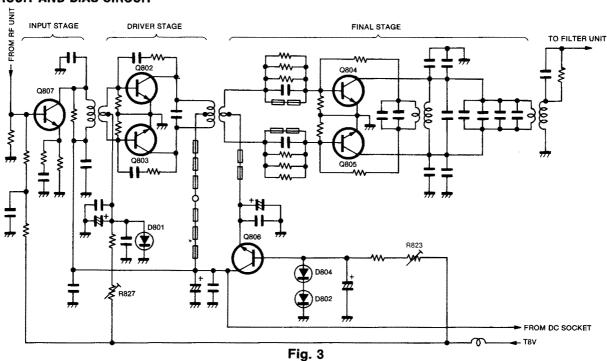
Chebyshev low-pass filters are used and 7 filters having different cutoff frequencies are switched depending on the transmitting frequency.

Filter switching is performed by driving the relay with the signal from the LOGIC UNIT.

At the output is an SWR detection circuit which uses a toroidal core. The detected traveling wave voltage is sent to the MAIN UNIT to control the ALC and the reflected wave voltage is sent to the RF unit as a control voltage for the protection circuit used to prevent an overload on the PA stage caused by a mismatched antenna.

FILTER	FREQUENCY		
L1	2∼ 3MHz		
L2	3∼ 5MHz		
L3	5∼ 7MHz		
L4	7∼10MHz		
L5	10~14 MHz		
L6	14~18MHz		
L7	18∼24 MHz		

PA CIRCUIT AND BIAS CIRCUIT



4-2-10 ALC CIRCUIT (MAIN UNIT)

A peak ALC circuit is provided so that the transmit peak level does not exceed the rated output. The traveling-wave voltage detected from the FILTER UNIT is amplified at operational amplifier IC1006 and compared with the reference voltage set by R1244 to generate the ALC voltage. This ALC voltage is applied to the 1st gate of Q1012 to control the output level of the transmit signal. The ALC voltage is also inverted and amplified by the same IC1006 to light up the TRANSMIT INDICATOR.

ALC CIRCUIT

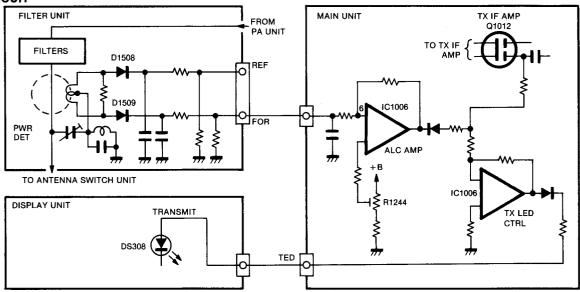


Fig. 4

4-2-11 KEYING CIRCUIT (MAIN UNIT)

Keying control in the CW mode is carried out by IC1005. In other modes and when the CW KEY is turned down, an "High" level signal is output from IC1005 (pin 7), and this causes the voltage of the 2nd gate of Q1012 to become approximately 4V.

When the CW KEY has been turned up, the output voltage from IC1005 (pin 7) becomes a minus voltage, and Q1012 is turned OFF. Also, bias voltage of D1018 is controlled as the CW KEY is turned up or down which improves isolation. The leading edge of the bias voltage applied to D1018 is the first attack and its trailing edge is the slow delay so as not to effect the transmission signal waveform during CW KEY operation.

4-2-12 POWER DOWN CIRCUIT (MAIN UNIT)

A power down circuit is provided to protect the circuits from overheating of the PA UNIT and to set the output signal power during tuning.

When the PA UNIT has overheated, the output signal power is lowered to 60W by lowering of the comparison voltage for setting the output signal power by R1245 and Q1029.

During tuning, the output signal power is lowered to 10W by lowering of the comparison voltage for setting the output signal power by R1247 and Q1031.

At the same time as the above operations are being executed, the RF UNIT gain is also controlled so that the ideal overall gain can be obtained.

4-3 OTHER CIRCUITS

4-3-1 ALARM CIRCUIT (MAIN UNIT)

When the ALARM SWITCH (S323) on the FRONT PANEL is pushed ON, IC1022 removes chattering generated at the ALARM SWITCH and triggers IC1017.

IC1017 is a monostable multivibrator whose one shot time is set at approximately 50 seconds. This determines the alarm time (30 \sim 60 seconds). During alarm transmission (full alarm), a signal of 4Hz frequency is generated from IC1019. This signal is further divided at IC1018 1 /₂ to become a signal of 2Hz frequency which is used for determining the cycle of the alarm tone.

1300 Hz and 2200 Hz AF signals are switched over every 250 milliseconds and generated as the alarm signal.

4-3-2 POWER SUPPLY CIRCUIT (+8V) (MAIN UNIT)

A constant voltage of approximately 8 V is produced by IC1013.

During transmission, this voltage is supplied by Q1037 to the circuits for transmission that require 8V.

During reception, this voltage is supplied by Q1040 to the circuits for reception that require 8V.

A circuit comprising CMOS gates that switch with high reliability and in a short time are employed for selecting between the above reception and transmission states. Also, the timing indication is output from all MAIN UNIT circuits (Q1036, IC1012) during switching over to circuits that require reception/transmission selection in each of the units.

4-3-3 POWER SUPPLY CIRCUIT (-5V) (MAIN UNIT)

Minus DC voltage of approximately -5 V is obtained by double voltage rectifying at D1090 and D1091 the oscillation signal output from IC1015 (pin 6) and applying this to constant-voltage diode (D1089).

This minus DC voltage (-5V) is used at ALC, AGC and keying circuit.

4-3-4 TONE GENERATOR CIRCUIT (MAIN UNIT)

A 1 kHz side tone for the CW mode, 1300 Hz and 2200 Hz emergency signal alarm tones and the TONE frequency

during the FSK mode are generated at IC1025.

IC1025 is an IC for TONE generation. By selecting any one of IC1025 pins $1\sim5$, the dividing ratio of the oscillation frequencies of X1006 and X1007 can be varied, and transmission output of stable frequency can be obtained.

To obtain the transmission output of the required frequency from IC1025, the input program to IC1025 pins $1\sim5$ is changed by the matrix circuit consisting of D1123 \sim D1160.

Keying of the monitor tone in the CW mode and ON/OFF switching of the monitor tone in the FSK mode are carried out by Q1058.

TONE GENERATOR CIRCUIT

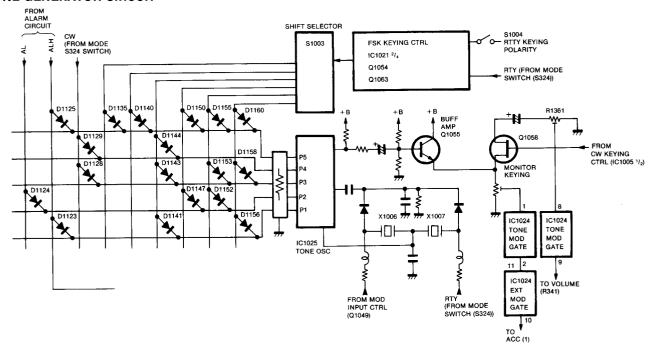


Fig. 5

4-3-5 MIC CIRCUITS (MAIN UNIT)

MAIN UNIT receives the signal from the MIC connector. MIC circuit is selectable according to the type of microphone and antenna tuner.

J1009 is a connector for the microphone. The use of each pin is as follows.

- AF1 Connected to the built-in speaker. When the SPEAKER SWITCH is turned ON while shorting pins 1 and 7, the built-in speaker is used.
- 2. PTT pin. Transmits when shorted with pin 3 and ground.
- 3. PTTE Ground pin for the PTT.
- 4. MIC MIC ground pin.
- 5. MICE MIC pin. When shipped from the factory, a DC voltage is applied but becomes input through a capacitor when W63 is cut.
- 6. NC No connection.
- 7. AF2 AF output from the MAIN UNIT.

4-4 PLL CIRCUITS

PLL UNIT generates 2 oscillating outputs (1st LO and 2nd LO signals) required by the RF UNIT and another oscillating output (3rd LO signal) used to produce the BFO frequency within the MAIN UNIT. Among these, the 1st LO is a frequency variable output in the 72~95MHz band and is generated by the PLL circuit having 2 locked loops. The 2nd and 3rd LO outputs are fixed and produced by multiplying or dividing the reference frequency signals.

The oscillating outputs produced within PLL UNIT are all determined by a single reference frequency. Adjusting this frequency corrects all the oscillating outputs.

4-4-1 REFERENCE OSCILLATOR CIRCUIT (PLL UNIT)

X1 is a reference oscillator circuit for oscillation of 30.72MHz frequency.

In X1, consisting of a temperature-compensating oven heater and crystal unit, an oscillation circuit and a power stabilizing circuit for protecting the oscillation circuit are contained in a single case which is of twolayer construction for thermal stability.

The output signal frequency of X1 used as the reference frequency is highly stable with a maximum error of ± 0.1 ppm in an ambient temperature of -30° C $\sim +60^{\circ}$ C.

4-4-2 2nd LO CIRCUIT (PLL UNIT)

The output of the reference oscillator circuit is doubled at Q14, has its spurious components removed by the band pass filter of L3 \sim L5, and fed to the RF UNIT. The output is $+3\,\text{dBm}$ with a 50Ω load at $61.44\,\text{MHz}$.

4-4-3 3rd LO CIRCUIT (PLL UNIT)

The output of the reference oscillator circuit is divided by 3 at IC5 to obtain 10.24 MHz. It is fed to the MAIN UNIT through emitter follower of Q203.

4-4-4 1st LO CIRCUIT (PLL UNIT)

The PLL circuit composed of 2 locked loops, a main loop and sub-loop are used. The sub-loop is used for the heterodyne signal within the main loop and the VCO output from the main loop is used for the 1st LO output.

The sub-loop causes VCO Q201 to oscillate at approximately 115~120 MHz. This signal passes buffer amplifier Q202 and is locked by PLL ICs IC201 and IC202. The phase comparator frequency of this loop is 5kHz and varies the dividing ratio of the programmable divider within IC201. A frequency variation of 5MHz in 50kHz steps is obtained. The locked VCO

CPU PORT ALLOCATIONS

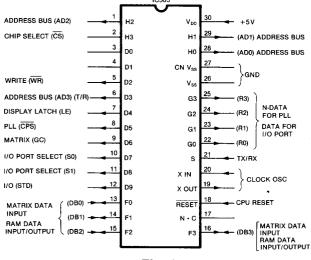


Fig. 6

output passes through IC204 and IC203, is divided into 1/500 to a frequency of $230\sim240\,\mathrm{kHz}$. This is mixed by IC4 with the frequency of the reference oscillator circuit and is applied to IC3 within the main loop as a signal having a $10\,\mathrm{kHz}$ variation in $100\,\mathrm{Hz}$ steps within $30.95\sim30.96\,\mathrm{MHz}$.

The main loop switches 4 VCOs to oscillate at a frequency within 72.053 MHz~94.4529 MHz, required by the 1st LO. The lock is accomplished by the loop consisting of IC1, IC2, IC3, etc. The phase comparator frequency is 10kHz and varies the dividing ratio of the programmable divider within IC1 to vary the frequency in 10kHz steps. Further, mixer IC3 is provided within the loop. The signal obtained from the sub-loop having a frequency variable in 100Hz steps is used as a heterodyne signal. This covers the frequency variation in 100Hz steps required by the 1st LO.

The comparator frequency for both the main and sub loops is produced by dividing the frequency of the reference oscillator circuit.

4-4-5 MUTE CIRCUIT (PLL CIRCUIT)

When the lock of the main or sub loop becomes "unlocked" or when the frequency is varied, the outputs of the 1st and 2nd LO are blocked to prevent transmitting or receiving on a frequency other than the desired one. The unlock signal output from IC1 and IC201 is given a suitable time constant by Q8 and Q9 and applied to Q24 and Q13 to stop the operation of the amplifiers in the 1st and 2nd LO, respectively, so that there are no outputs.

4-5 LOGIC CIRCUIT

All control of the receive and transmit frequencies of this equipment is performed by IC505.

INPUT/OUTPUT CONTROL IC PORT ALLOCATIONS

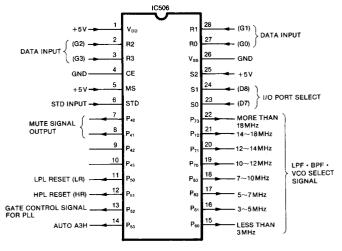


Fig. 7

When the power is turned on, the signal from IC508 (pin 12) resets IC505. The receiving and transmitting signal is fetched from the S input terminal and the frequency data stored in IC501 from the port F. (port H is for the control signal for IC501) Next, IC505 outputs, from port G, frequency data, PLL's N-data (PLL control data), and switching data for the band pass filter and low-pass filter.

As a result of the data from port G and control signals

D7 \sim D9, IC506 outputs band switching data to P60 \sim P73 (Table 1), PLL control signals to P50 \sim P52, and mute signals for outside the marine bands to P40 and P41.

IC507 buffers the outputs for the data from port G of IC505 and the control signal from P52 of IC506. IC509 is the buffer for the low-pass filter switching relay. IC510 is the power supply (5V) for LOGIC and MATRIX UNITS.

Port P	Band	BPF	LPF	vco	Transmit Enable Band
P60	1.6000∼ 2.9999 MHz	B1	L1	V1	2.0000∼ 2.9999 MHz
P61	3.0000∼ 4.9999 MHz	B2	L2	V1	4.0000∼ 4.9999 MHz
P62	5.0000∼ 6.9999 MHz	В3	L3	V1	6.0000∼ 6.9999MHz
P63	7.0000∼ 9.9999MHz	B4	L4	V2	8.0000~ 8.9999 MHz
P70	10.0000~11.9999 MHz	B5	L5	V2	
P71	12.0000~13.9999 MHz	B5	L5	V3	12.0000~13.9999 MHz
P72	14.0000~17.9999 MHz	В6	L6	V3	16.0000~17.9999 MHz
P73	18.0000~23.9999MHz	В7	L7	V4	22.0000~22.9999 MHz

Notes: The voltage supplied by the lithium backup battery installed in the RAM UNIT drops as the battery approaches its service life. This may cause the frequency data stored to the RAM (IC501) to be lost.

If the frequency data stored to the RAM (IC501) is lost, the transceiver can be used by inputting the desired frequency by the PROGRAMM-ING KEYBOARD on the FRONT PANEL. Further, the frequency data of 2182kHz will not be lost as it is written into the CPU memory.

Table 1

4-6 CIRCUITS ON THE FRONT PANEL (DISPLAY AND MATRIX UNITS)

LEDs (DS301~DS306) for frequency indication are lit by the 7-segment LED drive signal supplied from IC303. The 7-segment LED drive signal is obtained by conversion of the data supplied from the LOGIC UNIT at IC303 (BCD to 7-segment latch/decoder/driver). R301~R308 are resistors for limiting the capacity of the current flowing to the LEDs when the LEDs (DS301~DS306) for frequency indication are lit.

IC302a and Q302 are provided for lighting the segments for decimal point display on DS302 and DS305. (Each of the decimal points are for indicating 1 MHz and 100 kHz bands.)

IC302b and Q301 are provided for lighting the LEDs for indicating the 10MHz decimal point when 2182kHz is selected using the CHANNEL GROUP and 2182kHz SWITCH. (This 10MHz decimal point display is for indicating that the transceiver has automatically switched over to the H3E mode when 2182kHz has been selected using the CHANNEL GROUP and 2182kHz SWITCHES.)

IC304 (BCD to decimal decoder) converts the BCD signal supplied from the LOGIC UNIT to a decimal signal and sends this to the matrix circuit in the DISPLAY UNIT and IC301 (LED driver). IC301 buffer amplifies the signal supplied from IC304 and outputs this to LEDs (DS301~DS306) for frequency indication as the signal for lighting each of the digits.

IC305 (tri-state buffer) is used as a gate for sending data supplied from the matrix circuit in the DISPLAY UNIT to the LOGIC UNIT. IC305 (tri-state buffer) closes the gate except when data from the matrix circuit is being sent to the CPU (IC505) in the LOGIC UNIT. This prevents collision of output data sent from the RAM UNIT and output data from the matrix circuit.

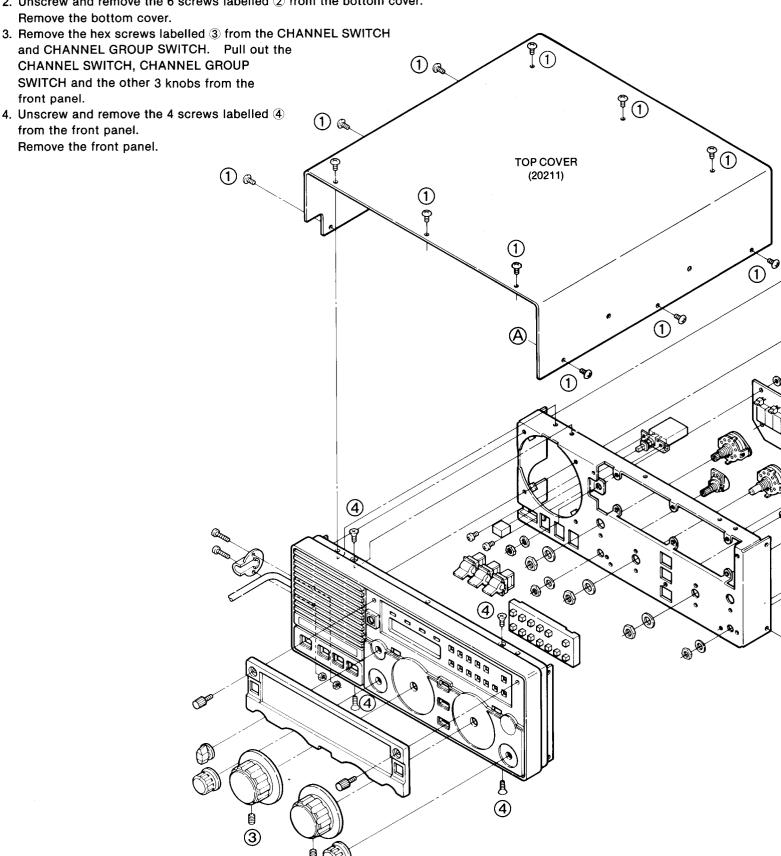
IC307 controls generation of the control signal for automatically setting the frequency to 2182kHz and the mode to the H3E mode when the transceiver has switched over to alarm operation. It is also controls generation of the control signal for cancelling these.

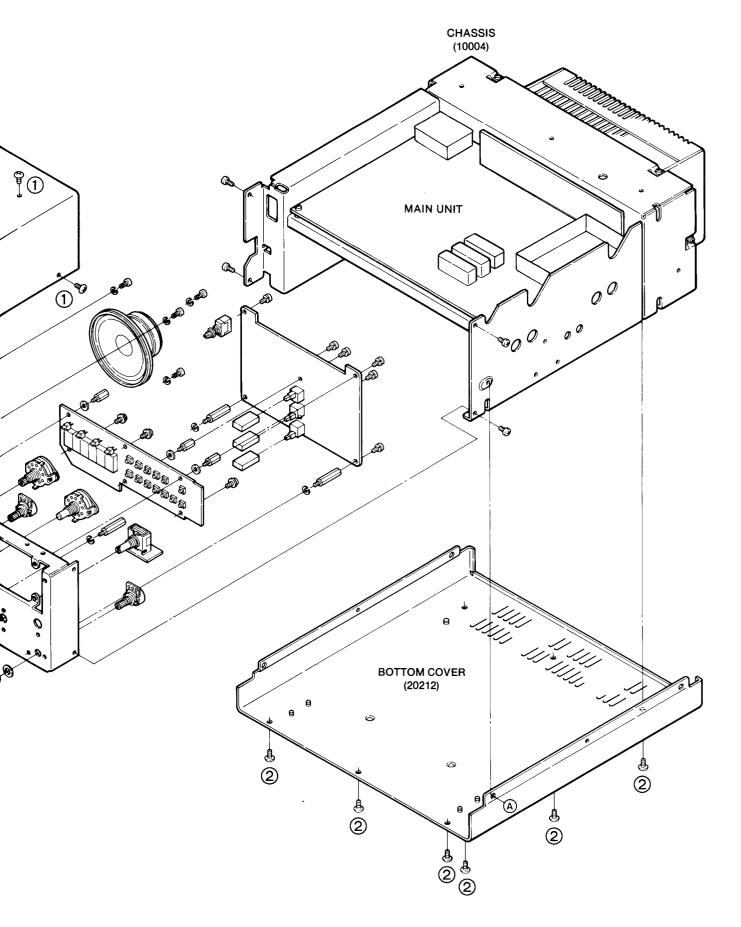
Q307~Q312 and Q304 buffer the signal for MODE SWITCH (S324) and outputs to MAIN UNIT. S328 is used to disable the key input and a key cannot be input in open state.

SECTION 5 MECHANICAL PARTS AND DISASSEMBLY

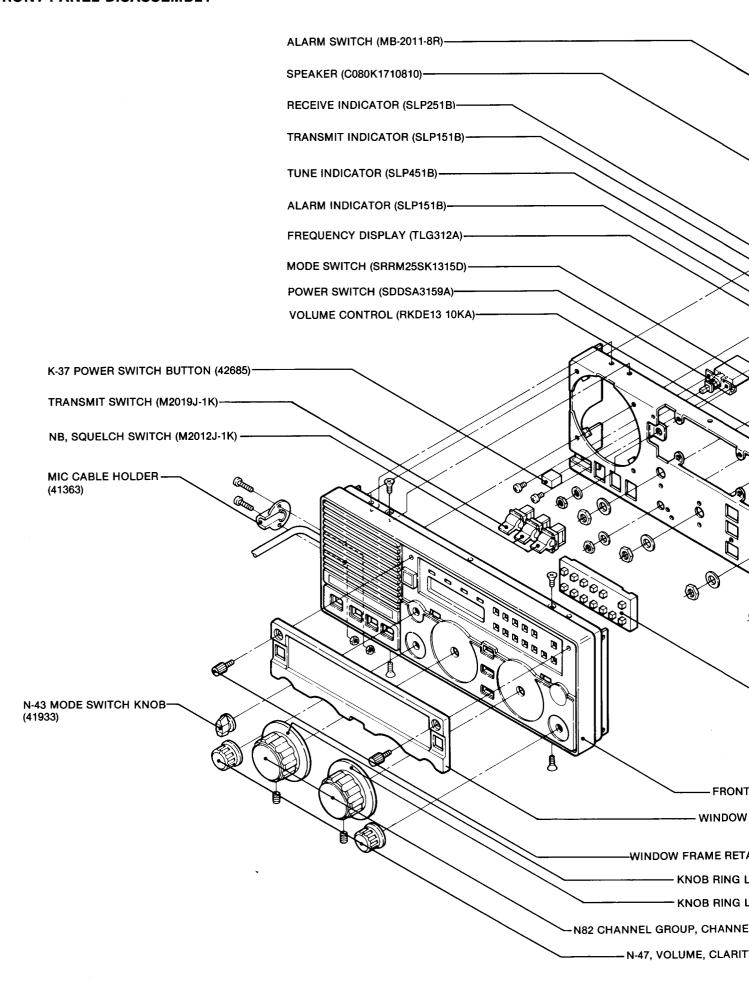
5-1 FRAME DISASSEMBLY

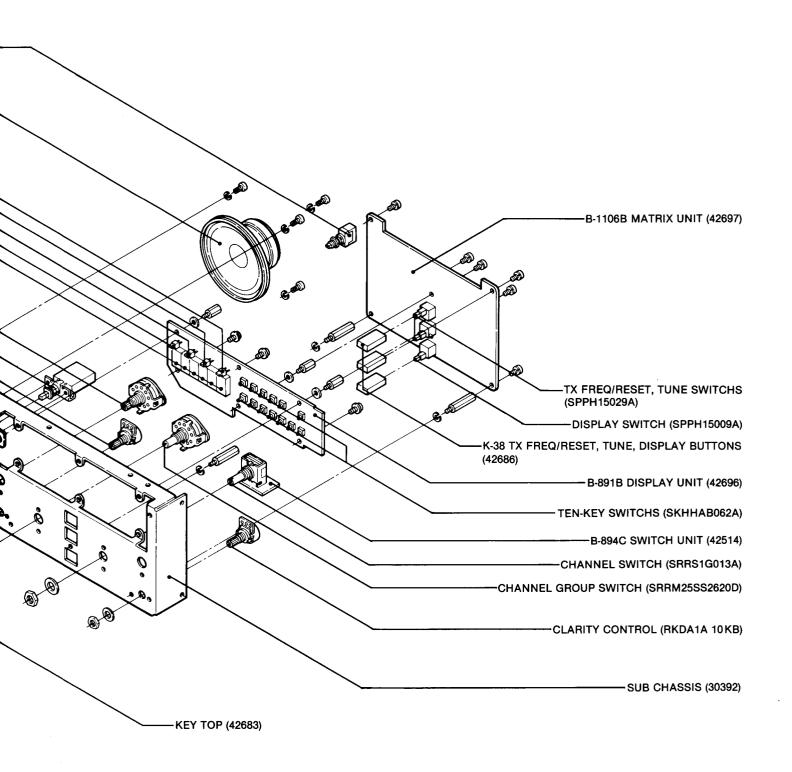
- 1. Unscrew and remove the 12 screws labelled ① from the top cover. Remove the top cover.
- 2. Unscrew and remove the 6 screws labelled 2 from the bottom cover.





5-2 FRONT PANEL DISASSEMBLY





FRONT PANEL (20210)

--- WINDOW FRAME (30391)

OW FRAME RETAINING SCREW

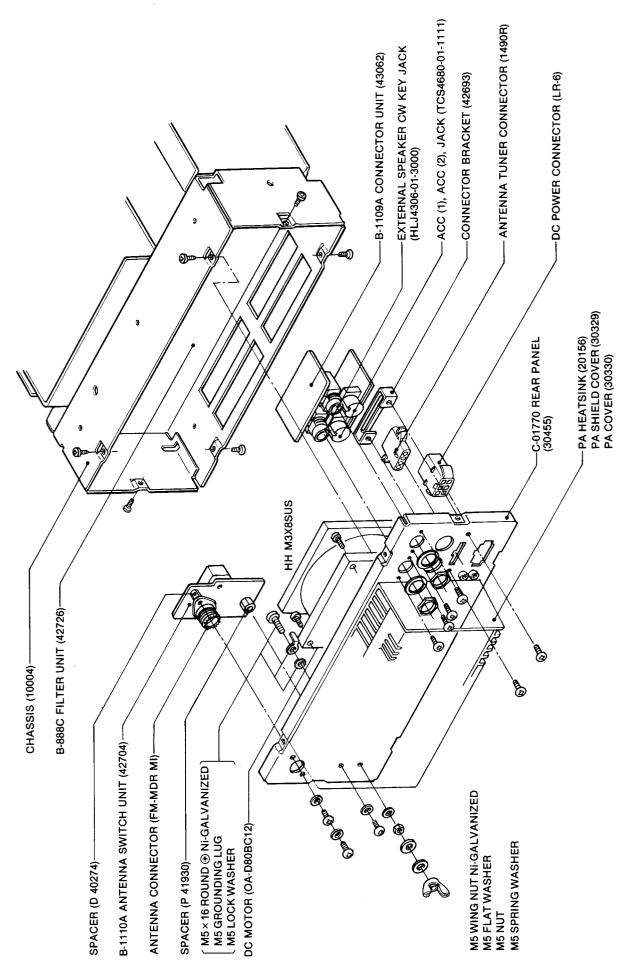
--- KNOB RING LABEL B (42684)

--- KNOB RING LABEL A (42684)

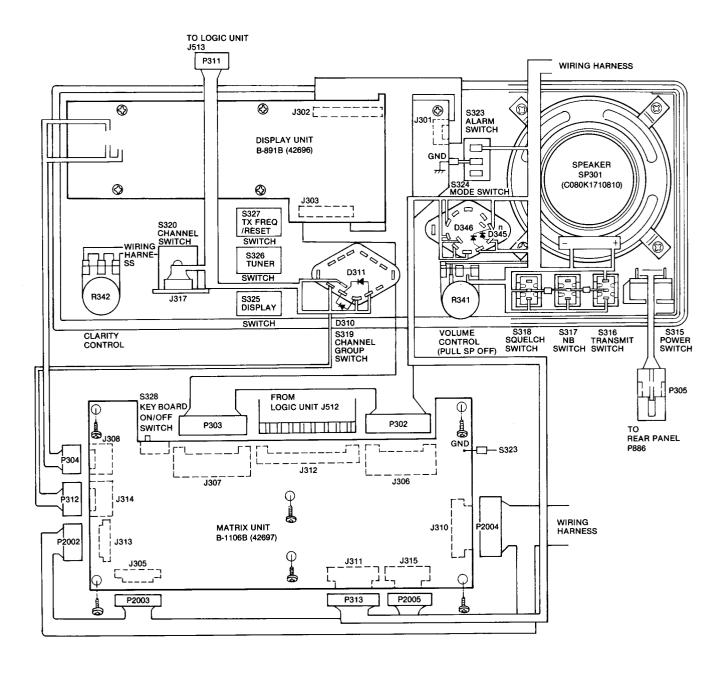
ROUP, CHANNEL KNOB (42676)

OLUME, CLARITY KNOB (41938)

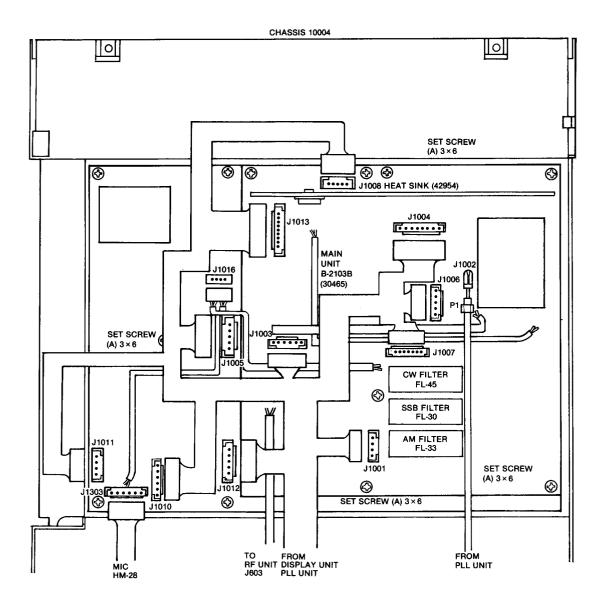
5-3 REAR PANEL DISASSEMBLY



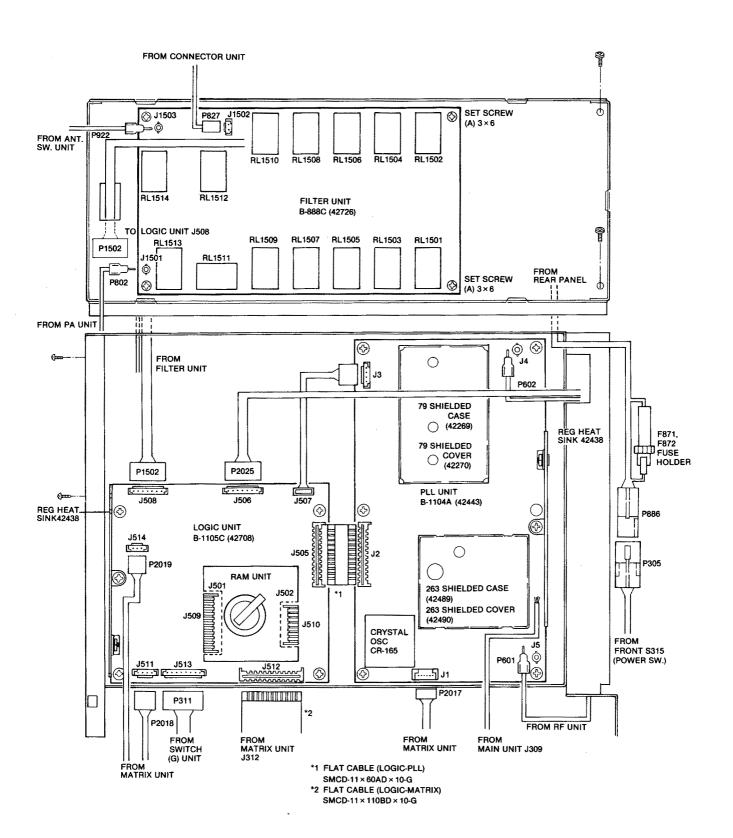
5-4 FRONT PANEL CONNECTOR CONNECTIONS (DISPLAY UNIT AND MATRIX UNIT)



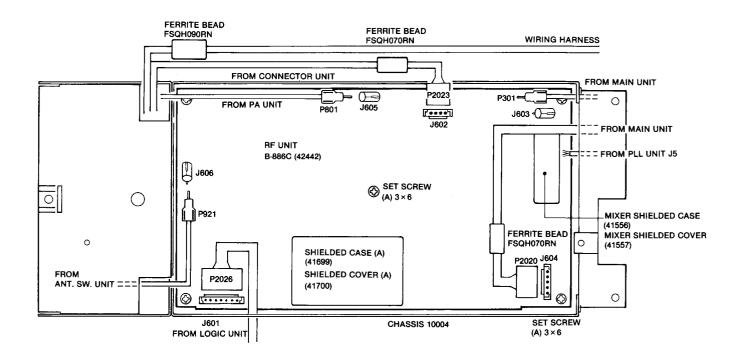
5-5 MAIN UNIT CONNECTOR CONNECTIONS



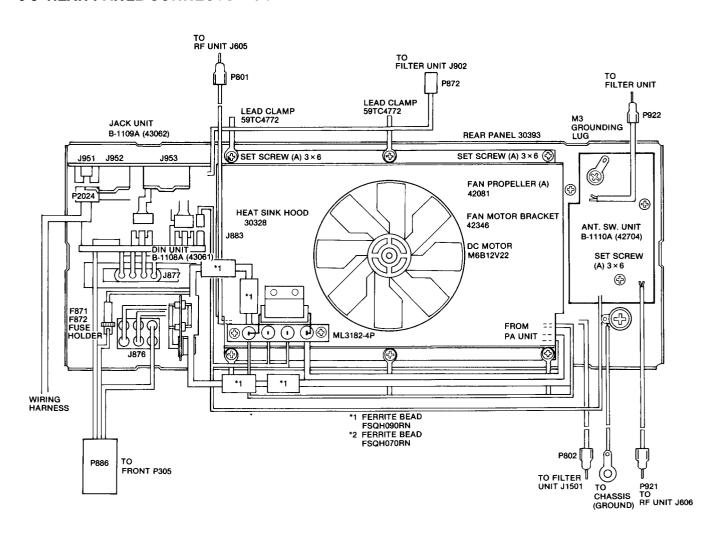
5-6 LOGIC-PLL UNIT AND FILTER UNIT CONNECTOR CONNECTIONS



5-7 RF UNIT CONNECTOR CONNECTIONS



5-8 REAR PANEL CONNECTOR CONNECTIONS

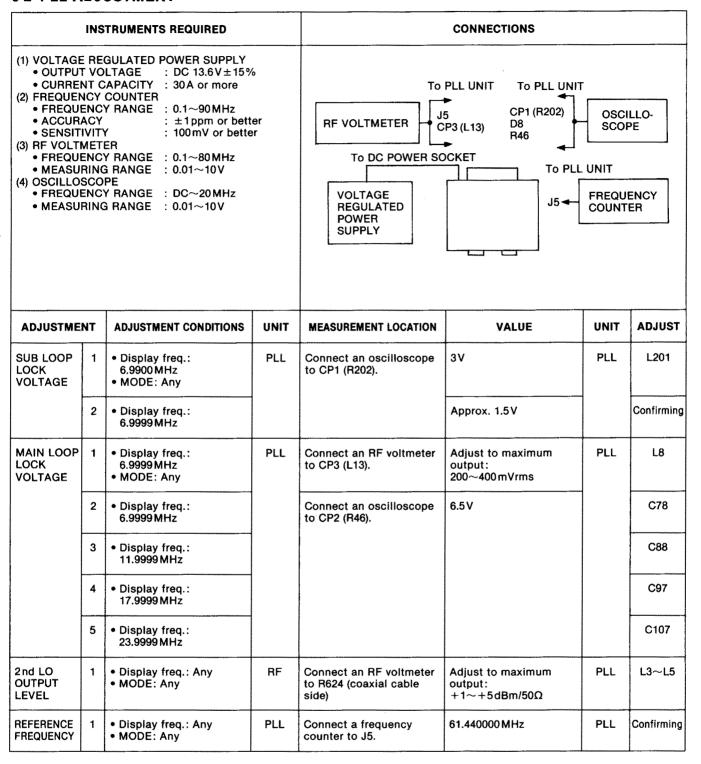


SECTION 6 MAINTENANCE AND ADJUSTMENT

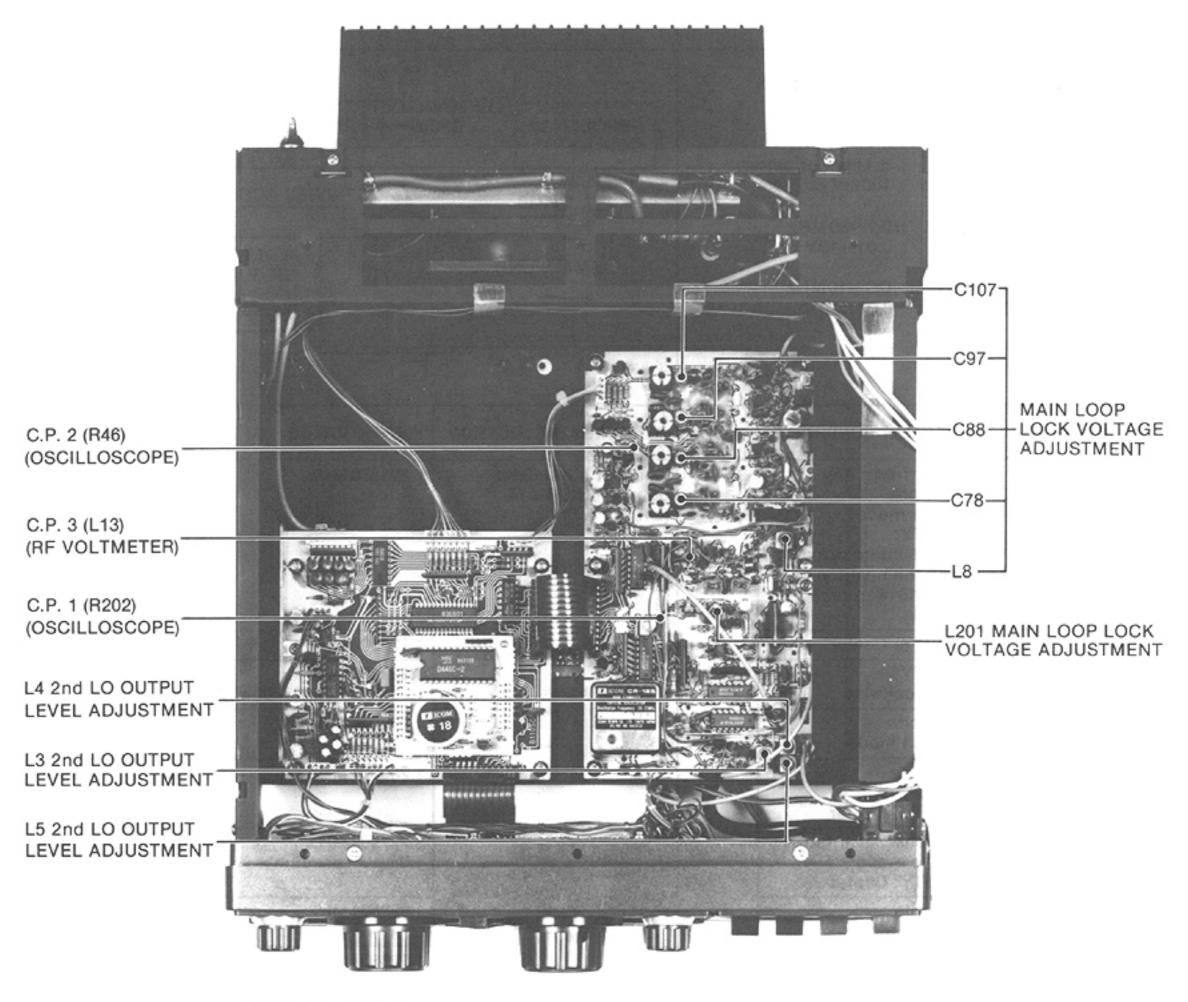
6-1 PREPARATION BEFORE SERVICING

- 1. Detach the power cord and turn OFF the POWER SWITCH before performing any work on the transceiver.
- 2. Do not short circuit components while making adjustments.
- 3. Use an insulated tuning tool for all adjustments.
- 4. Do not force any of the variable components. Tune them slowly and smoothly.
- 5. Follow the instructions exactly. If an indicated result is not obtained, repeat the instruction until the correct result is obtained.
- 6. Check the condition of connectors, solder joints and screws when adjustments are complete. Confirm that components do not touch each other.
- 7. Confirm defective operation of the transceiver first when checking an out-of-service unit. Verify that external sources do not cause the problem.
- 8. Use the correct tools and test equipment.
- 9. Remove the transceiver case as shown in SECTION 5-1.
- 10. Attach a 13.6V DC external power source to the power supply connector. Be sure to check the polarity.
- 11. For transmission problems, attach a dummy load to the ANTENNA CONNECTOR. For reception problems, attach an antenna or signal generator to the ANTENNA CONNECTOR. Do not transmit into the signal generator.
- 12. Recheck for the suspected malfunction with the POWER SWITCH ON.
- 13. Check the defective circuit. Measure the DC voltages of the collector, base and emitter of each transistor.

6-2 PLL ADJUSTMENT

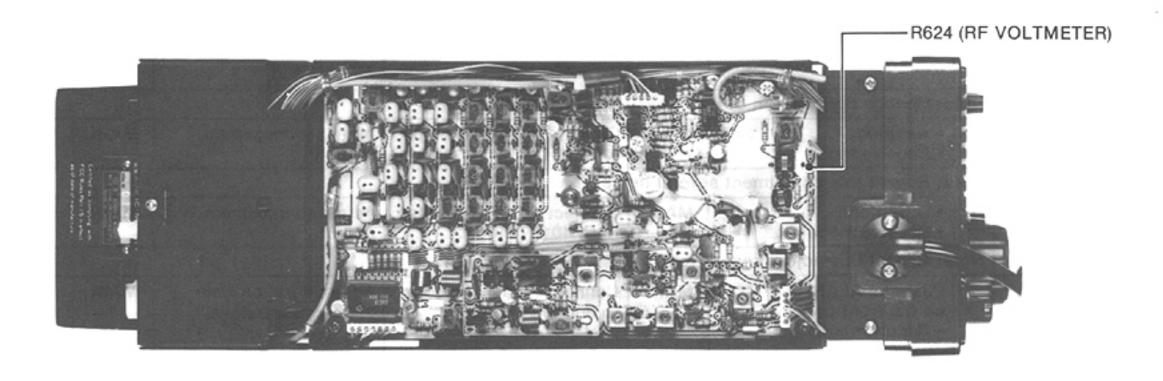


PLL UNIT



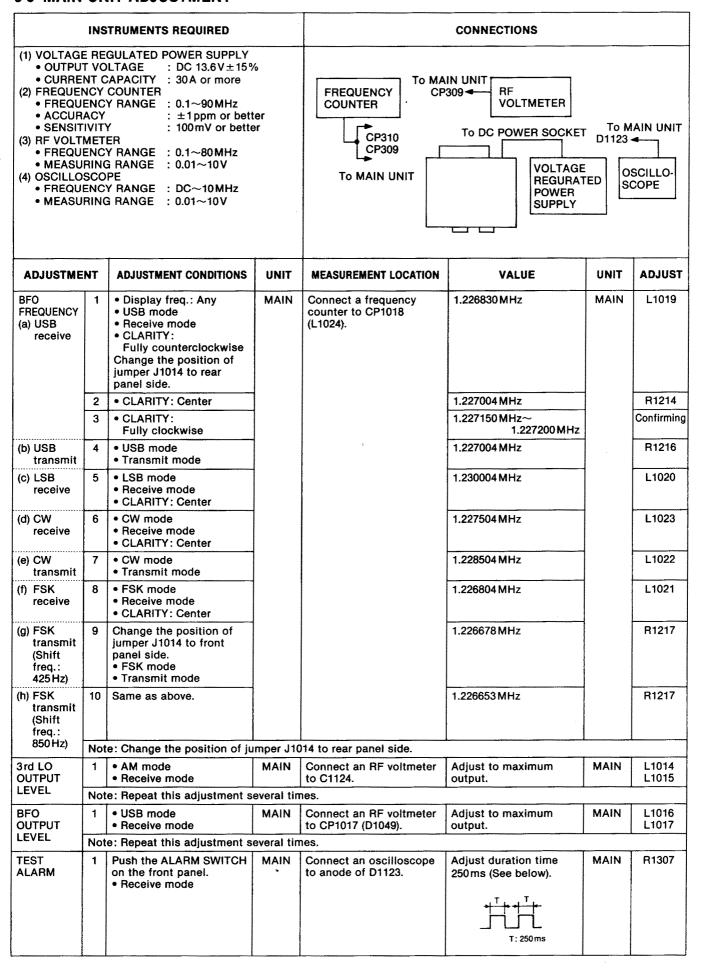
* C.P.: Check Point

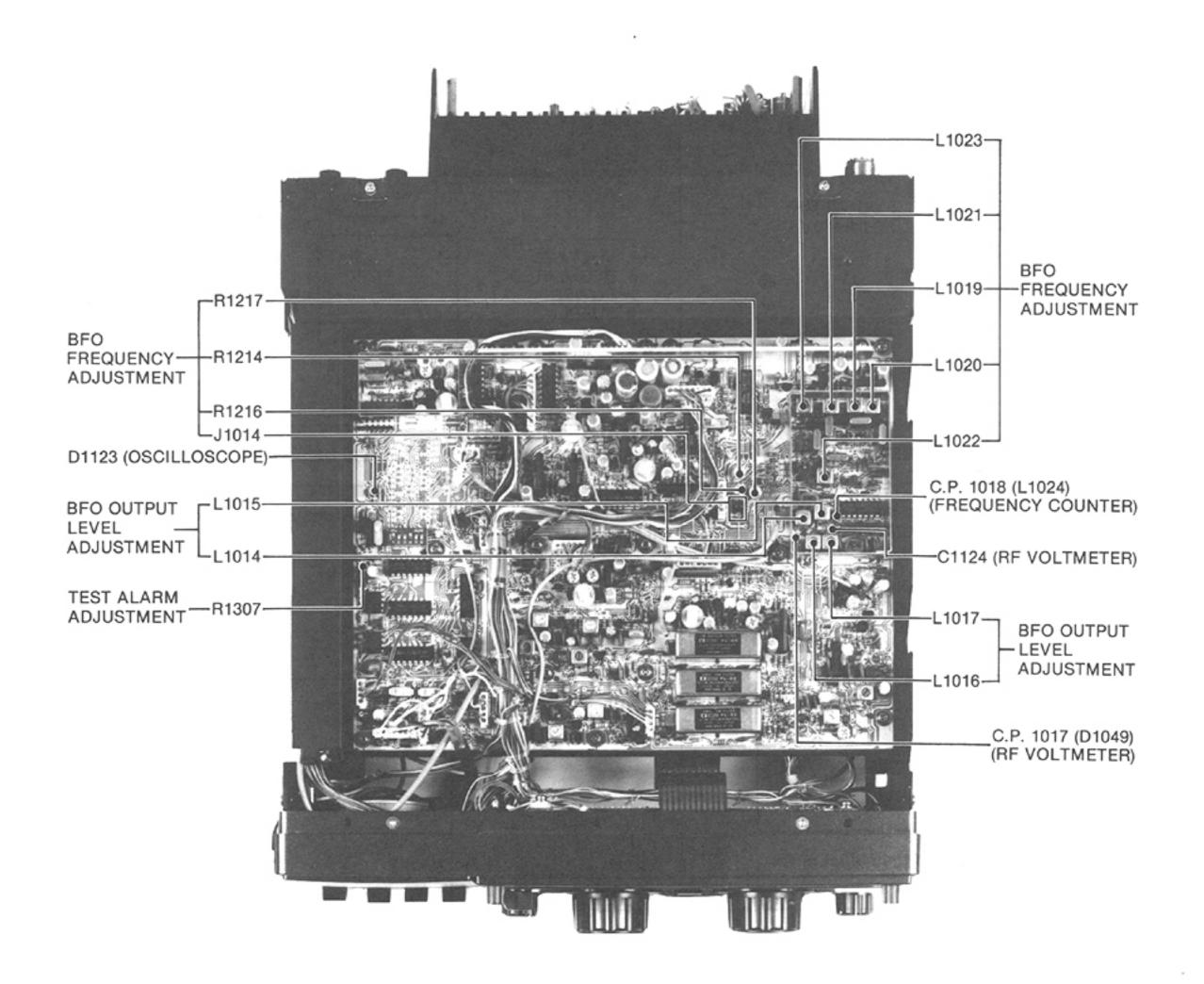
RF UNIT



NOTE: For complete parts number, "600" must be added to the binary numeral on RF UNIT.

6-3 MAIN UNIT ADJUSTMENT

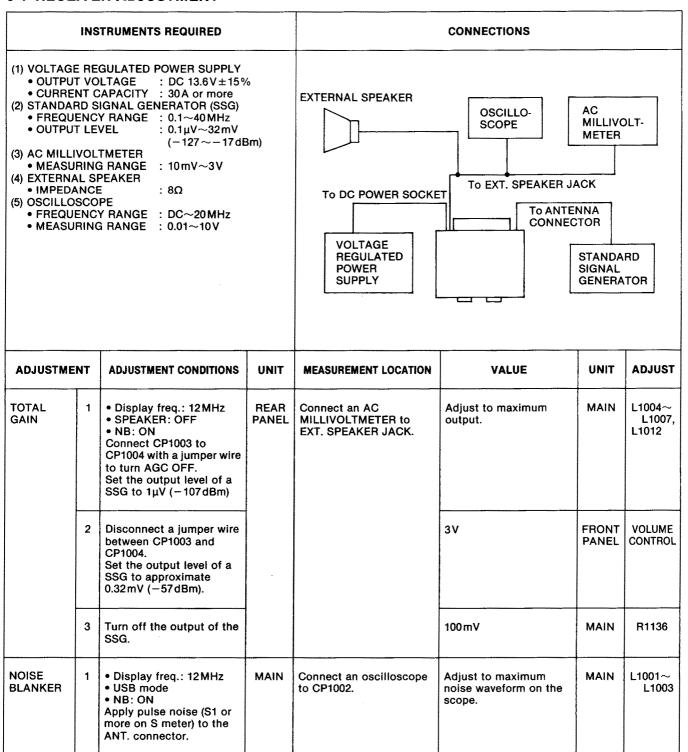




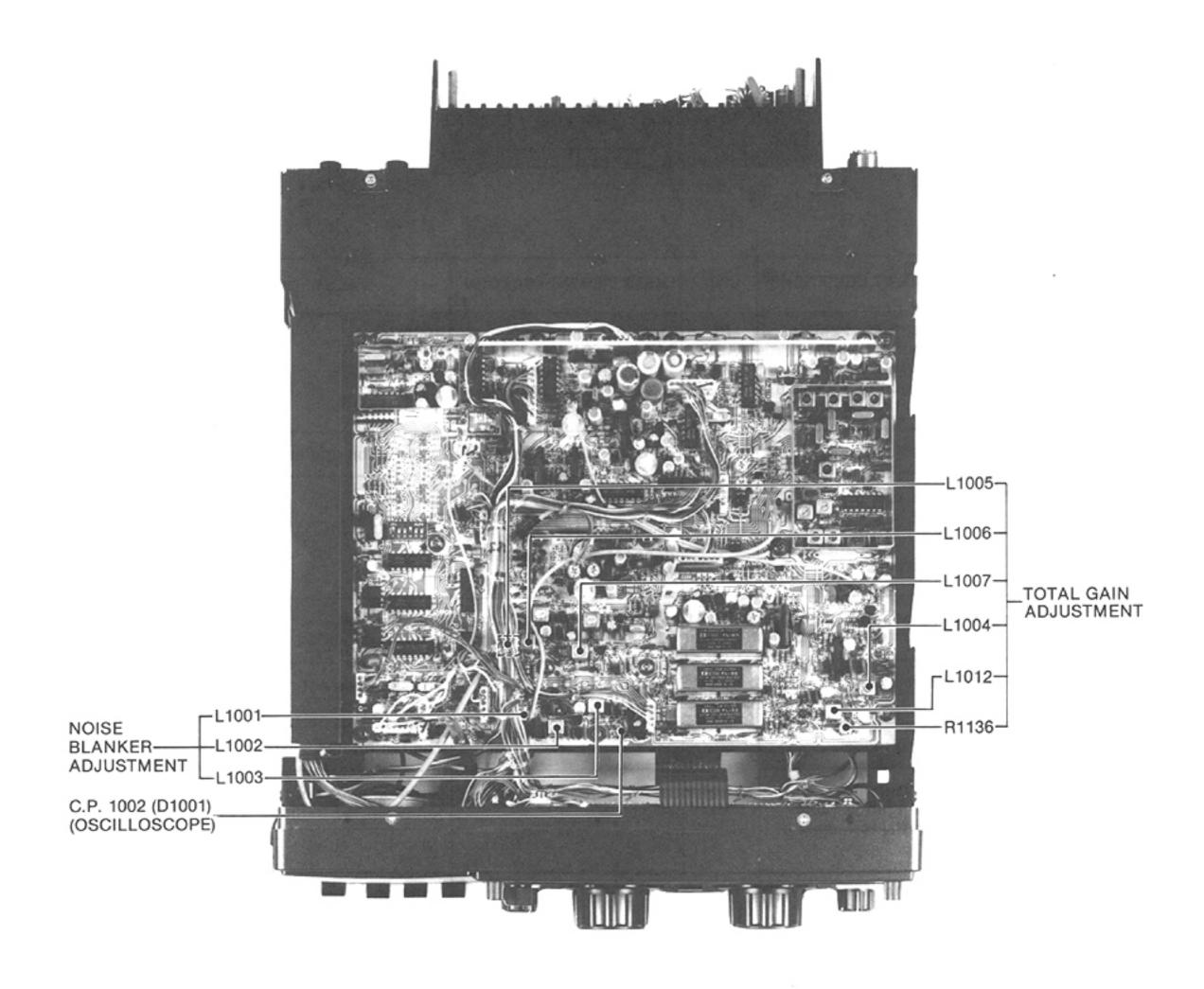
* C.P.: Check Point

NOTE: For complete parts number, "1000" must be added to the binary numeral on MAIN UNIT.

6-4 RECEIVER ADJUSTMENT



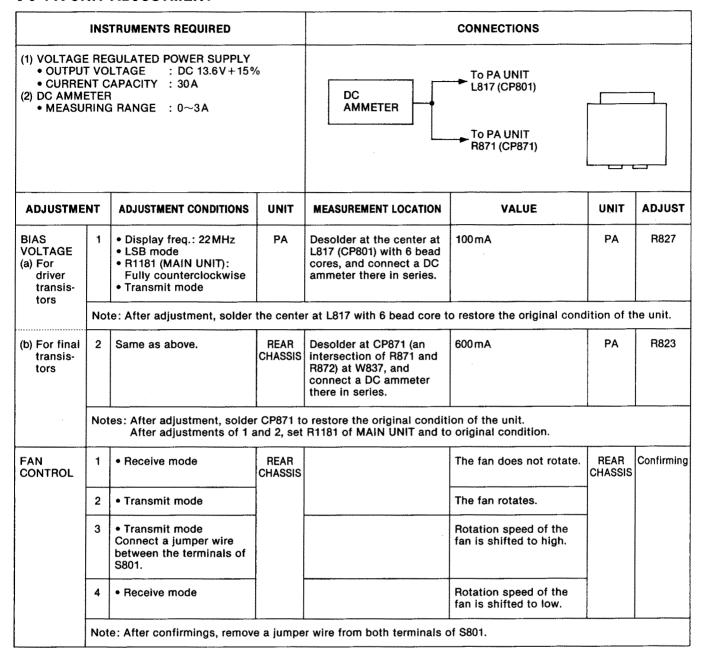
MAIN UNIT



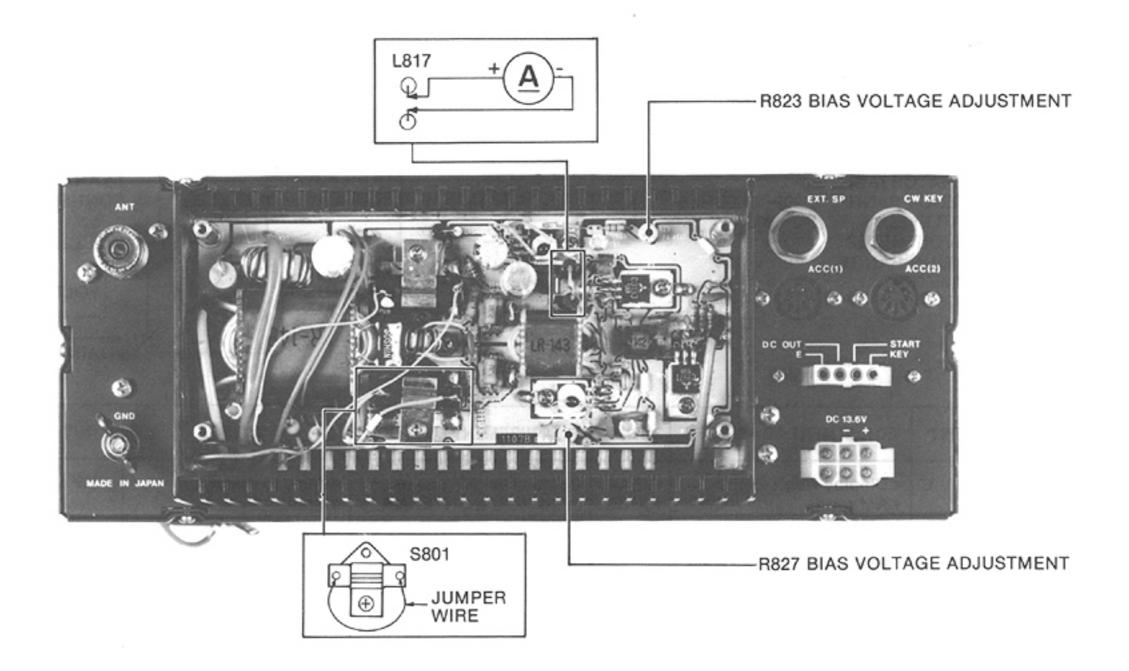
* C.P.: Check Point

NOTE: For complete parts number, "1000" must be added to the binary numeral on MAIN UNIT.

6-5 PA UNIT ADJUSTMENT

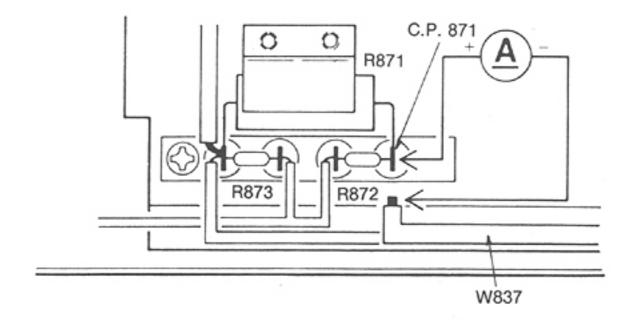


PA UNIT



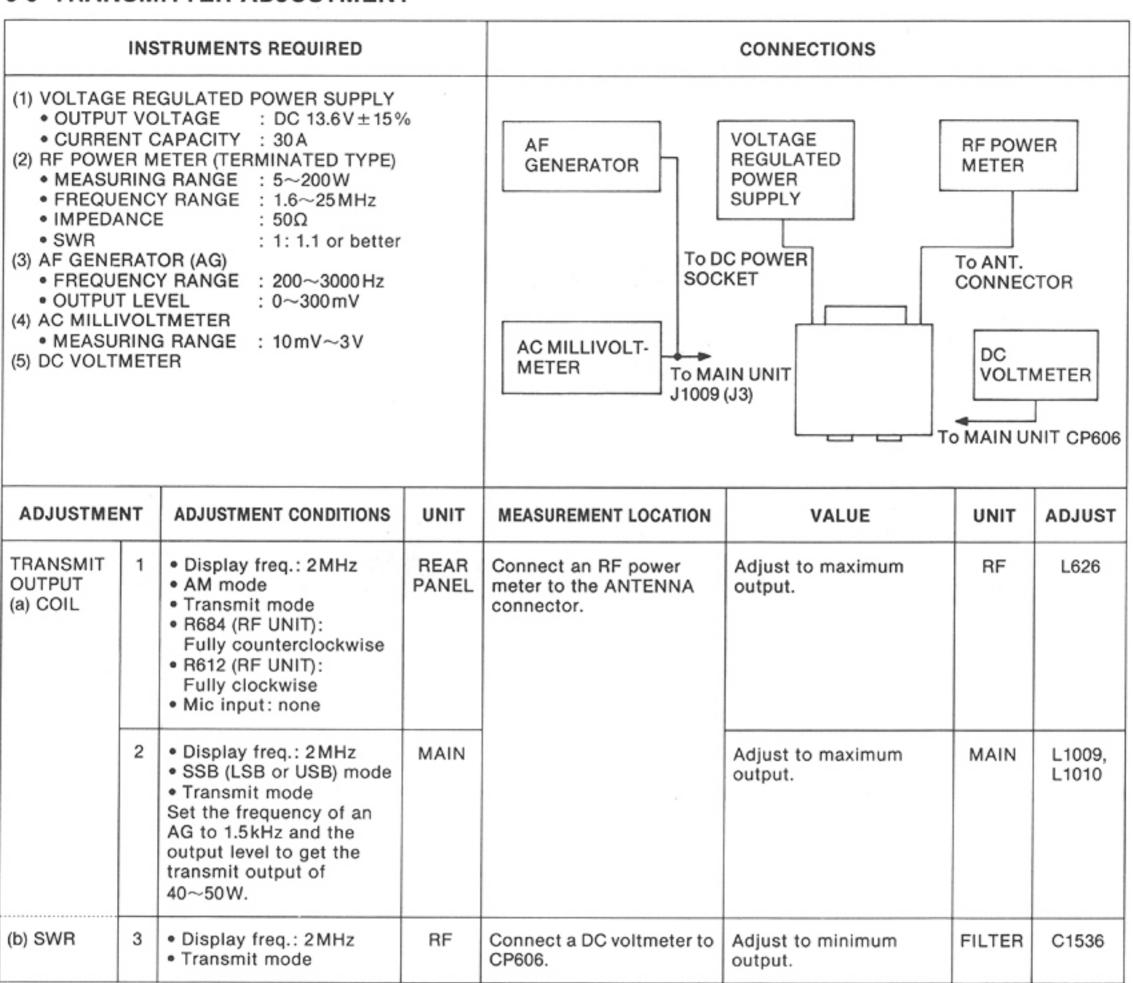
NOTE: For complete parts number, "800" must be added to the binary numeral on PA UNIT.

REAR CHASSIS

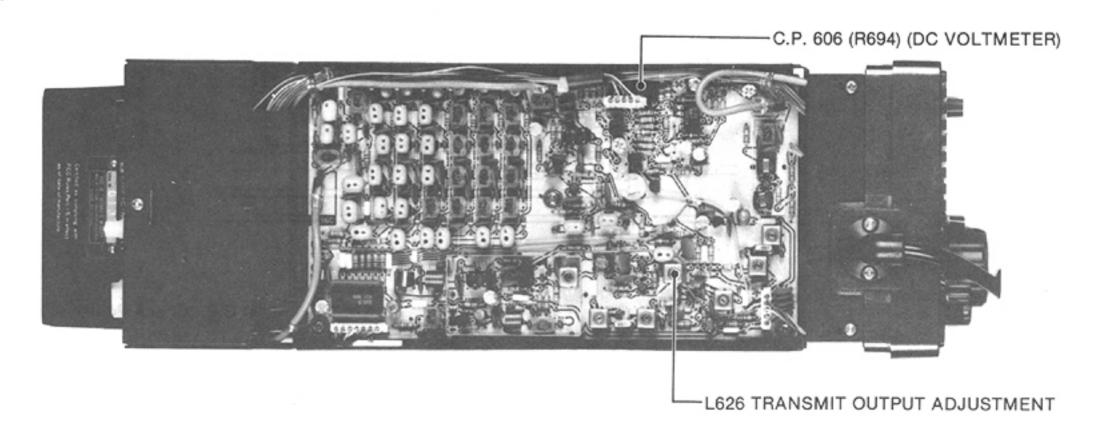


* C.P.: Check Point

6-6 TRANSMITTER ADJUSTMENT

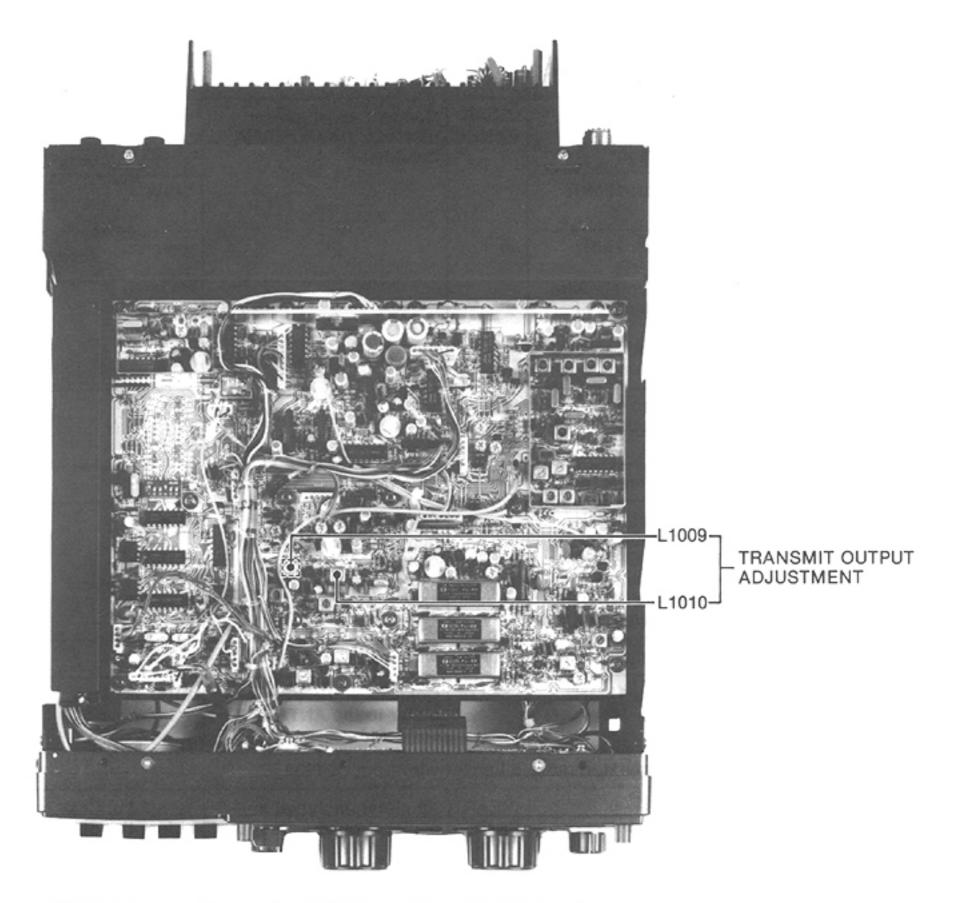


RF UNIT



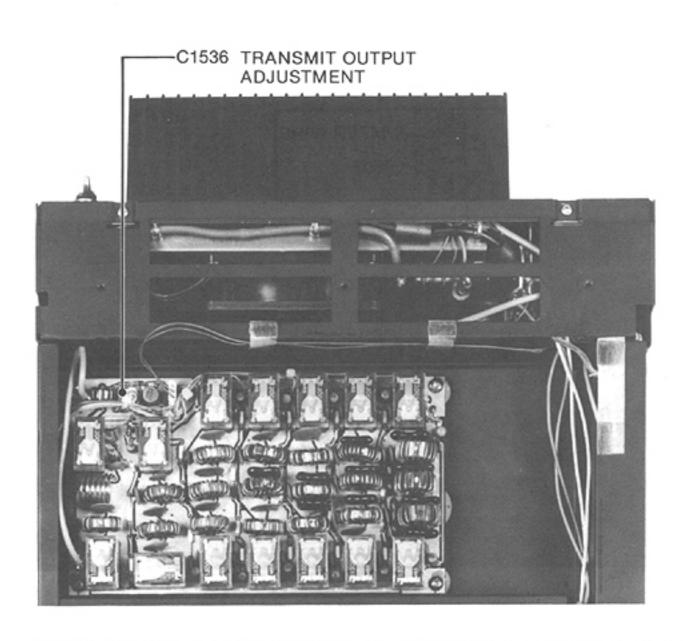
* C.P.: Check Point

MAIN UNIT



NOTE: For complete number, "1000" must be added to the binary numeral on MAIN UNIT.

FILTER UNIT

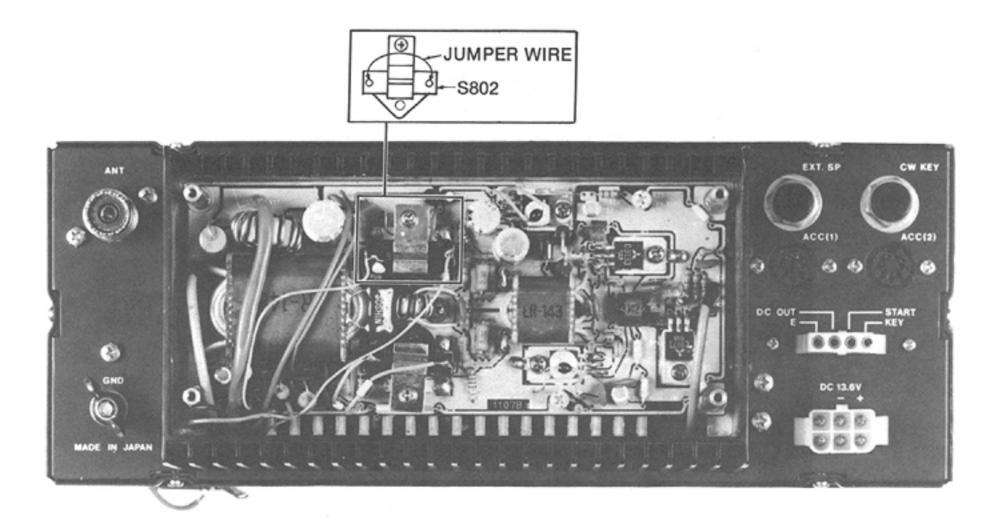


NOTE: For complete parts number, "1000" must be added to the binary numeral on FILTER UNIT.

TRANSMITTER ADJUSTMENT (Continued)

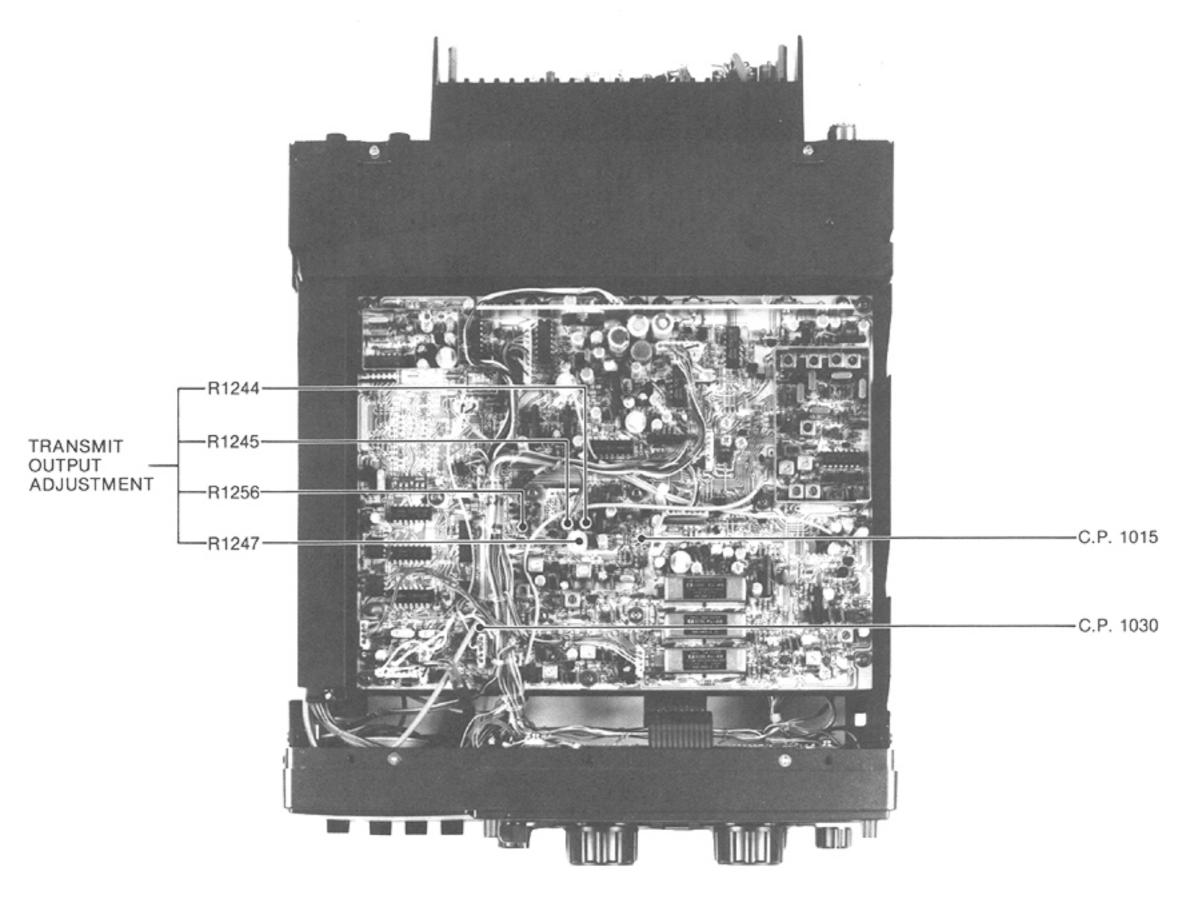
ADJUSTMENT		ADJUSTMENT CONDITIONS	UNIT	MEASUREMENT LOCATION	VALUE	UNIT	ADJUST		
TRANSMIT OUTPUT (c) OUTPUT POWER	4	Display freq.: 2MHz AM mode No moduration	REAR PANEL	Connect an RF power meter to the ANTENNA connector.	50 W	MAIN	R1256		
	5	Display freq.: 12MHz FSK mode			140W		R1244		
	6	Display freq.: 2MHz S802 (PA UNIT): Connect a jumper wire to both terminals of S802. Transmit mode No moduration			20W	RF	R621		
	7	Display freq.: 12MHz Transmit mode FSK mode			60 W	MAIN	R1245		
	Note: After adjustment, remove a jumper wire from S802.								
	8	Display freq.: 12MHz Connect ground to CP1015 and CP1030 with jumper wires. R1247 (MAIN UNIT): Fully clockwise		Connect an RF power meter to the ANTENNA connector.	40W	RF	R619		
	Note: After adjustment, remove a jumper wire from CP1015.								
	9	Display freq.: 12MHz		Connect an RF power meter to the ANTENNA connector.	10W	MAIN	R1247		
	Not	e: After adjustment, remove	a jumpe	r wire from CP1030.	×				
IC APC	1	FSK mode Transmit mode Display freq.: Choose a frequency (at 12MHz or 22MHz band) which makes maximum current.	REAR	Ammeter (included in a power supply)	Turn R612 CCW just before the output power drops.	RF	R612		

PA UNIT



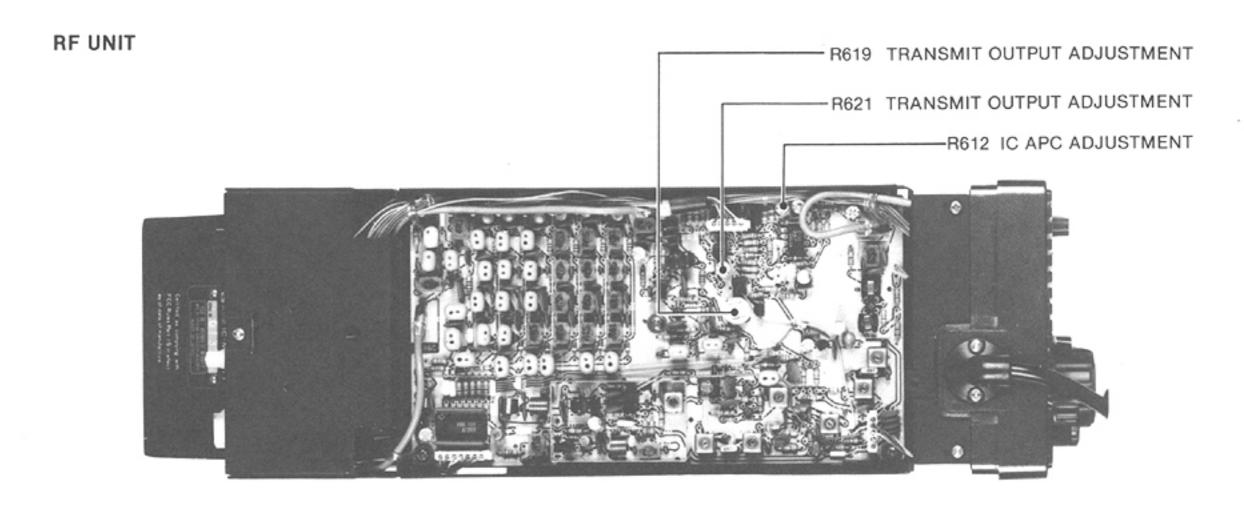
NOTE: For complete parts number, "800" must be added to the binary numeral on PA UNIT.

MAIN UNIT



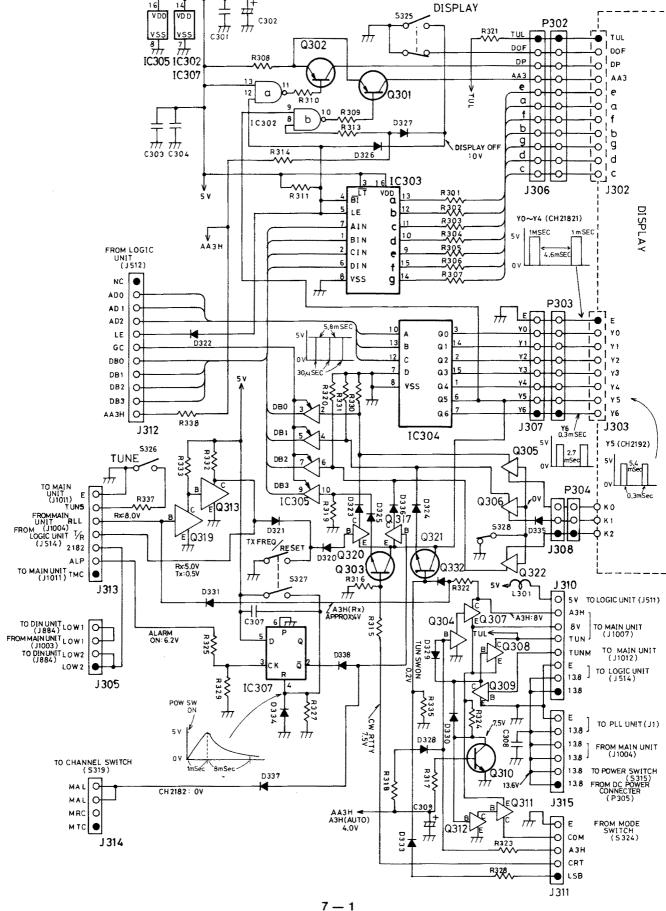
* C.P.: Check Point

NOTE: For complete parts number, "1000" must be added to the binary numeral on MAIN UNIT.

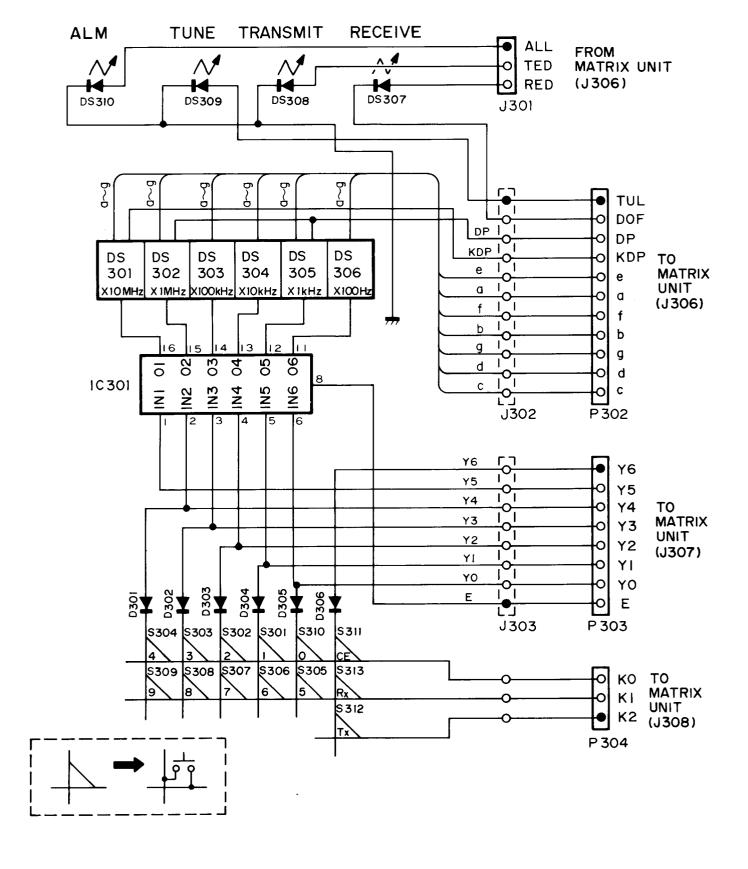


NOTE: For complete parts number, "600" must be added to the binary numeral on MAIN UNIT.

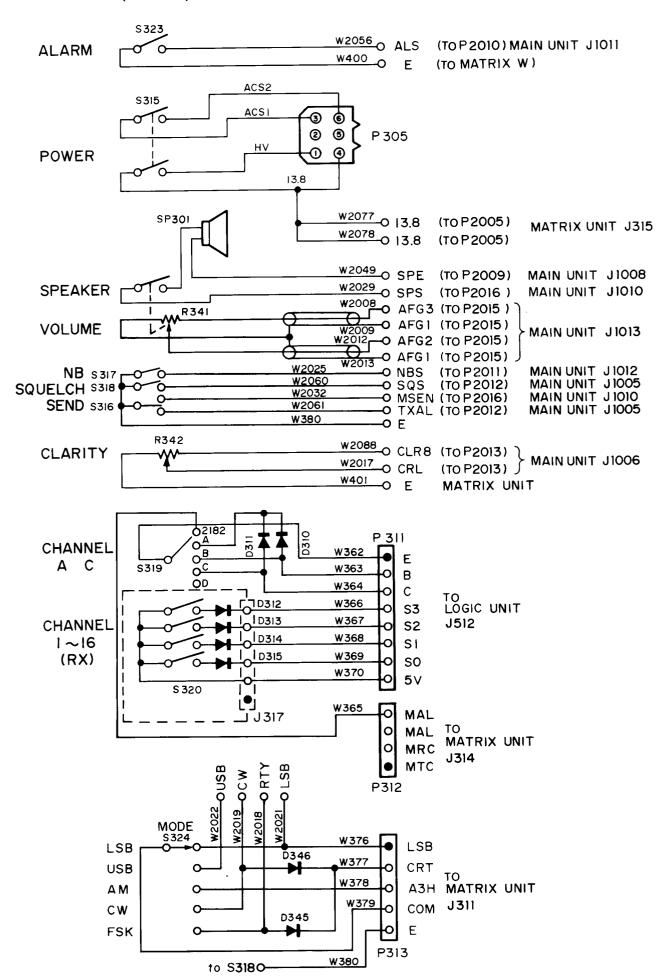
7-1 FRONT UNIT (MATRIX)



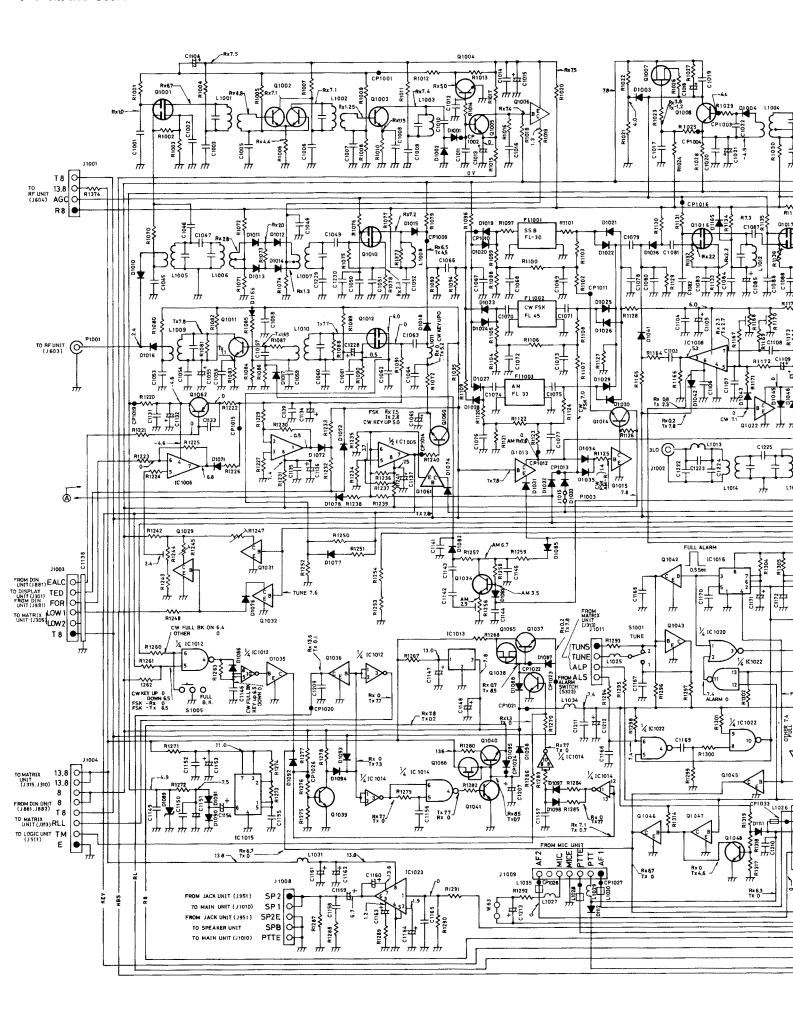
7-2 FRONT UNIT (DISPLAY)

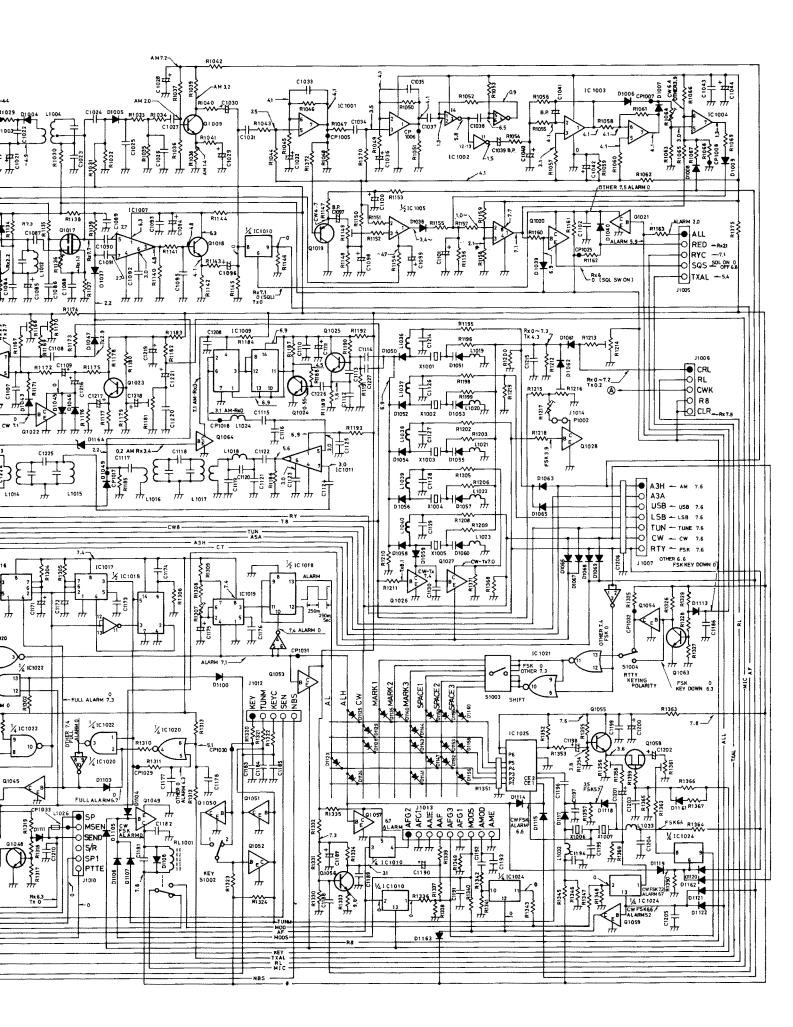


7-3 FRONT UNIT (SWITCH)

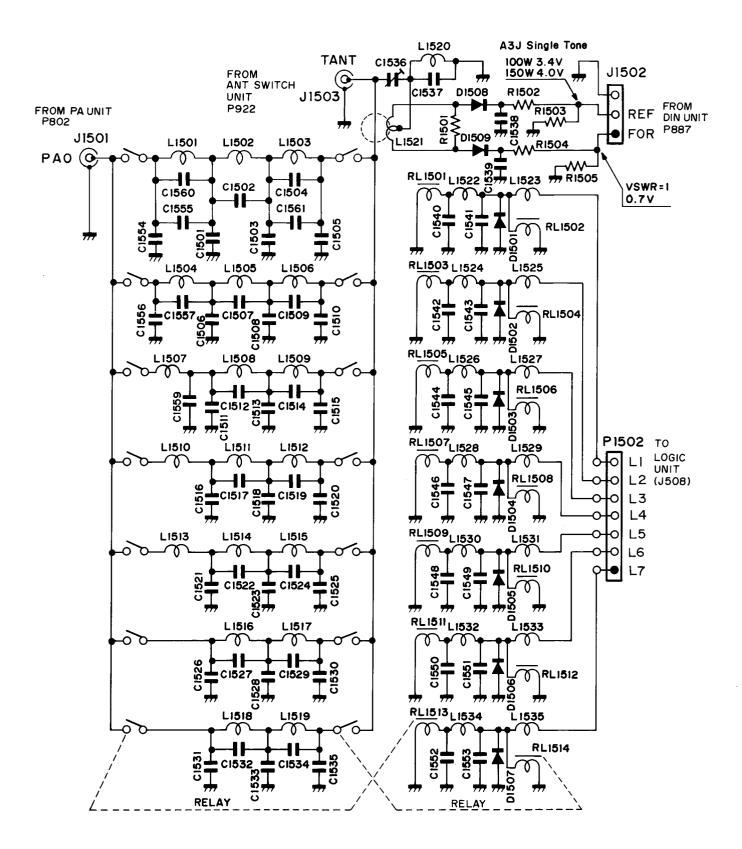


7-4 MAIN UNIT

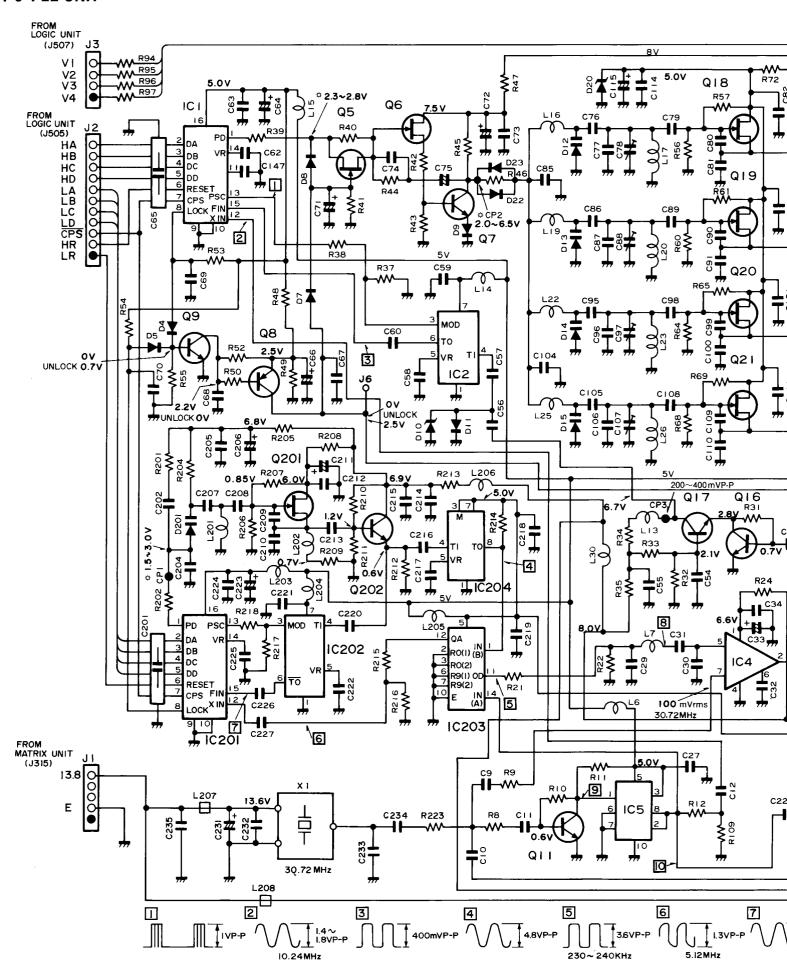


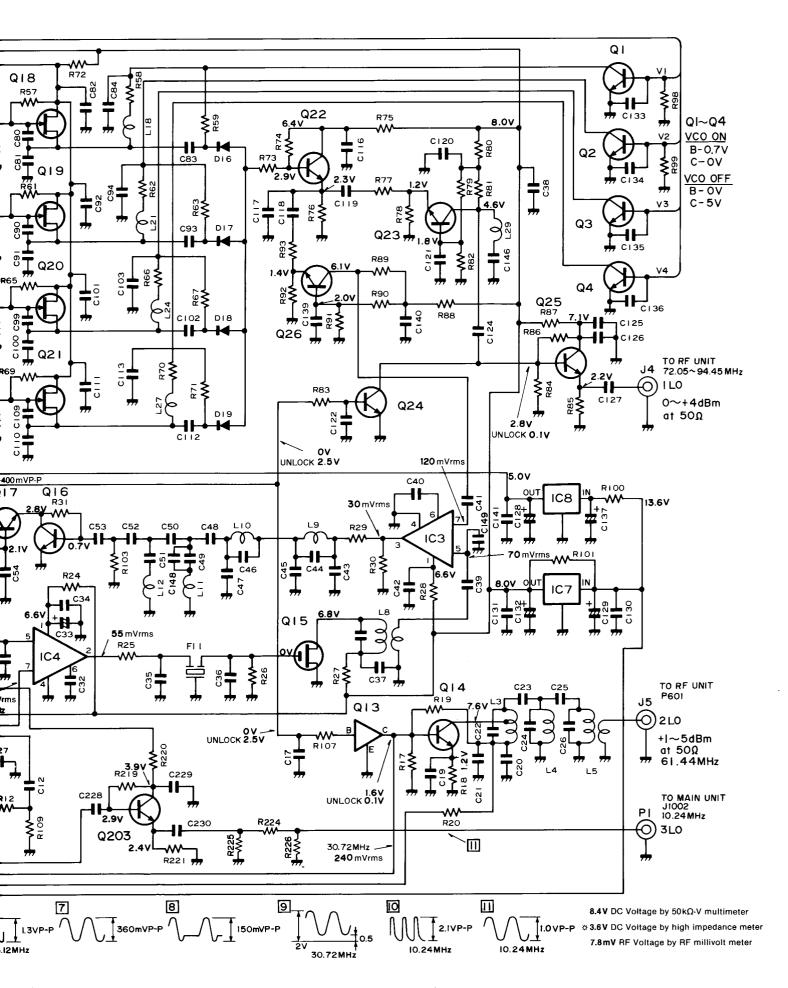


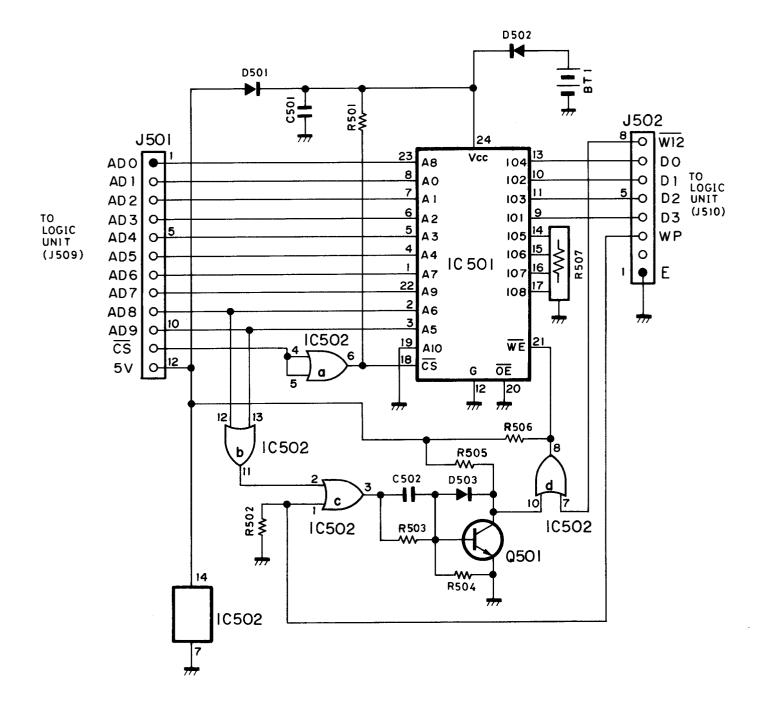
7-5 FILTER UNIT

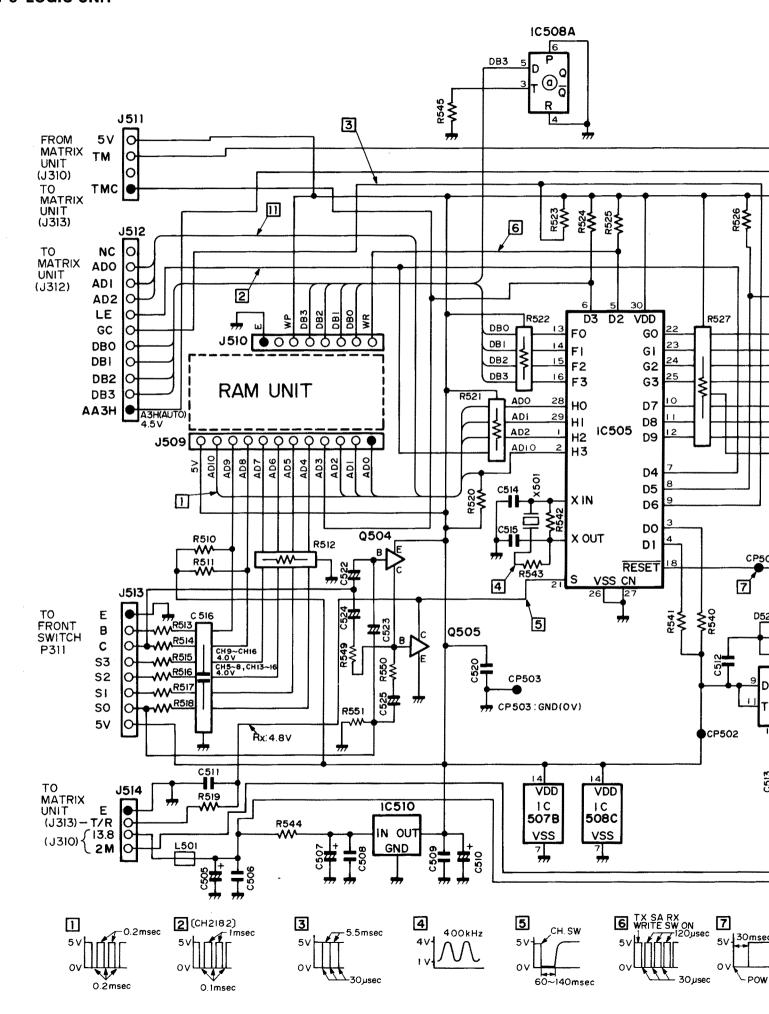


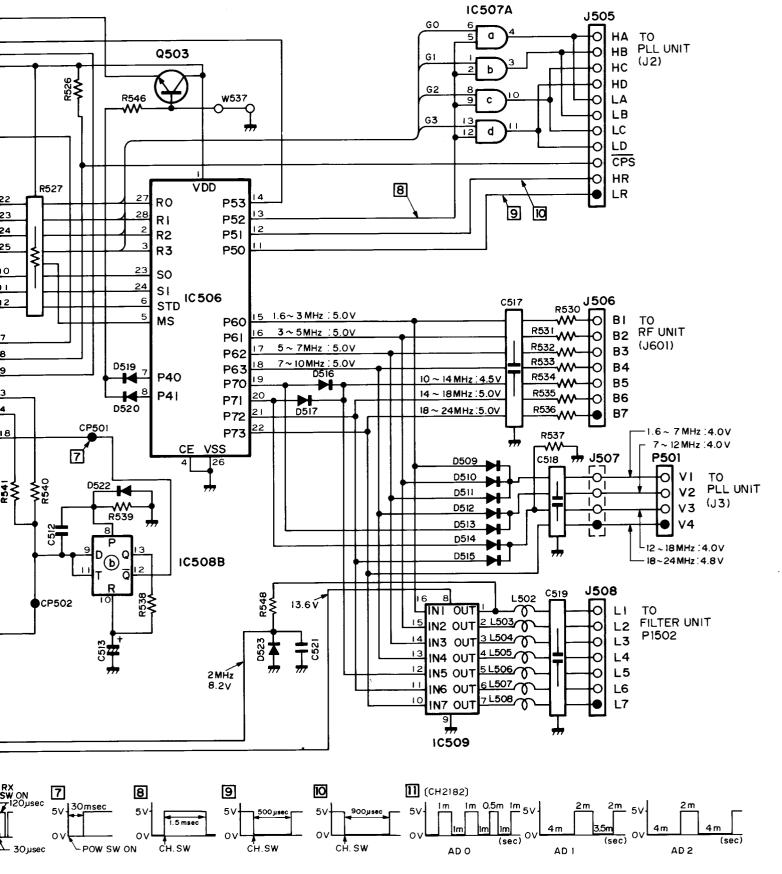
7-6 PLL UNIT

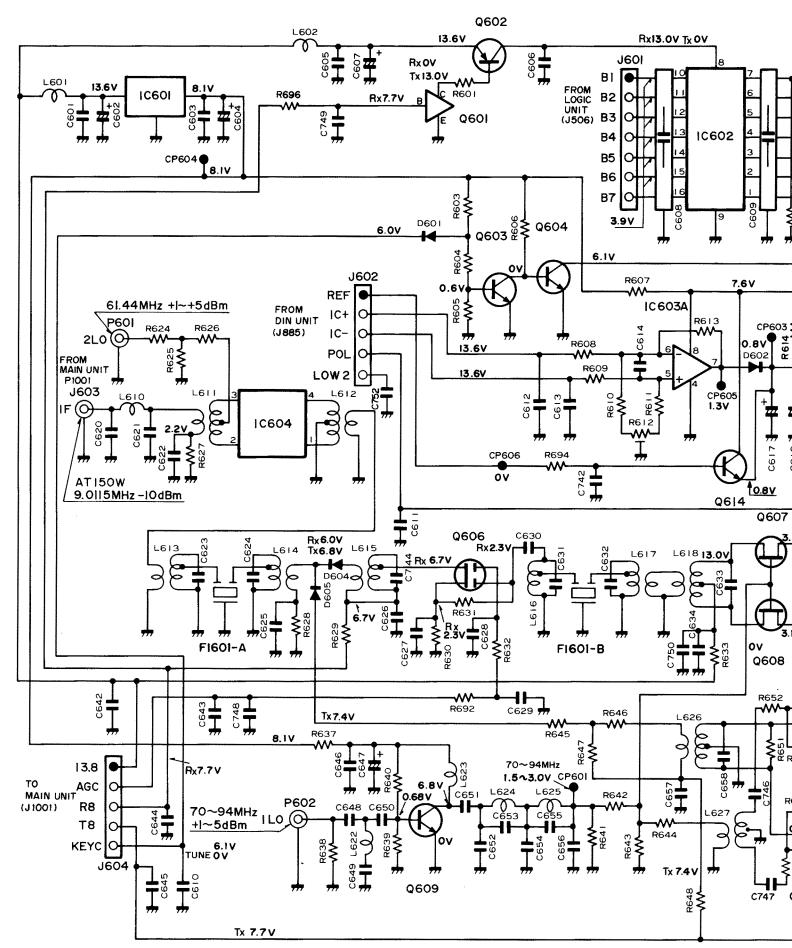




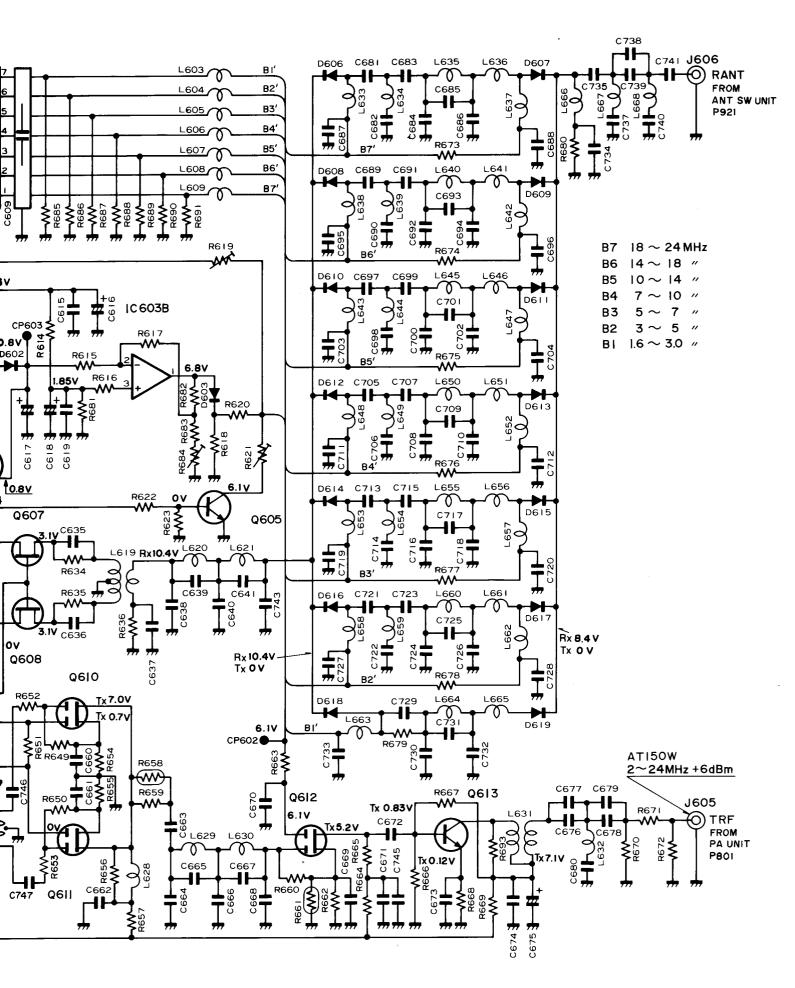




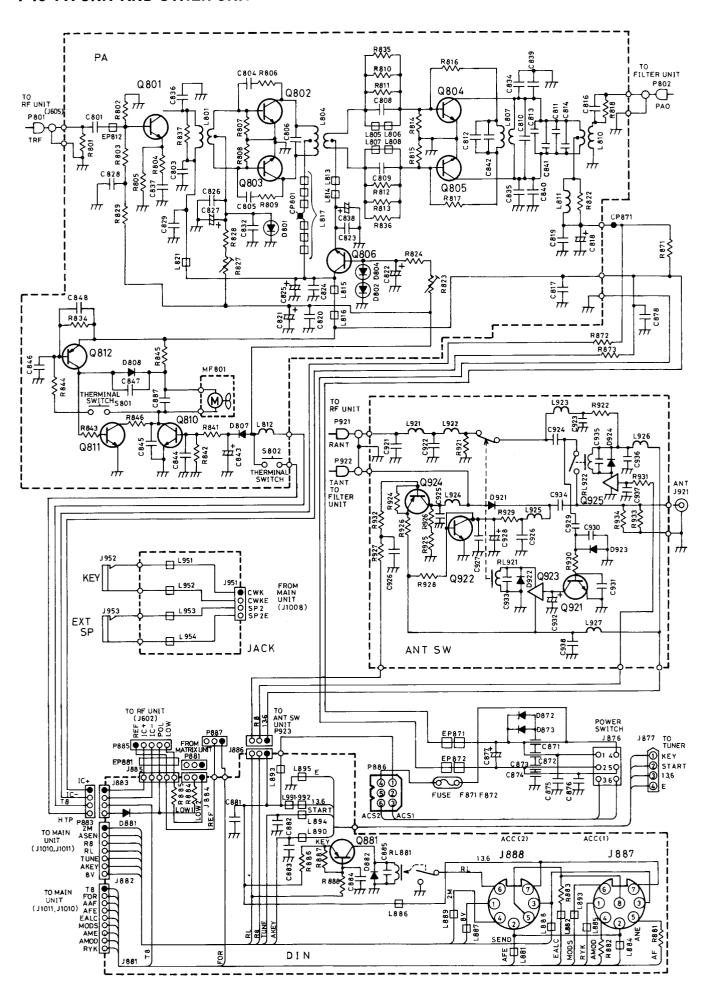




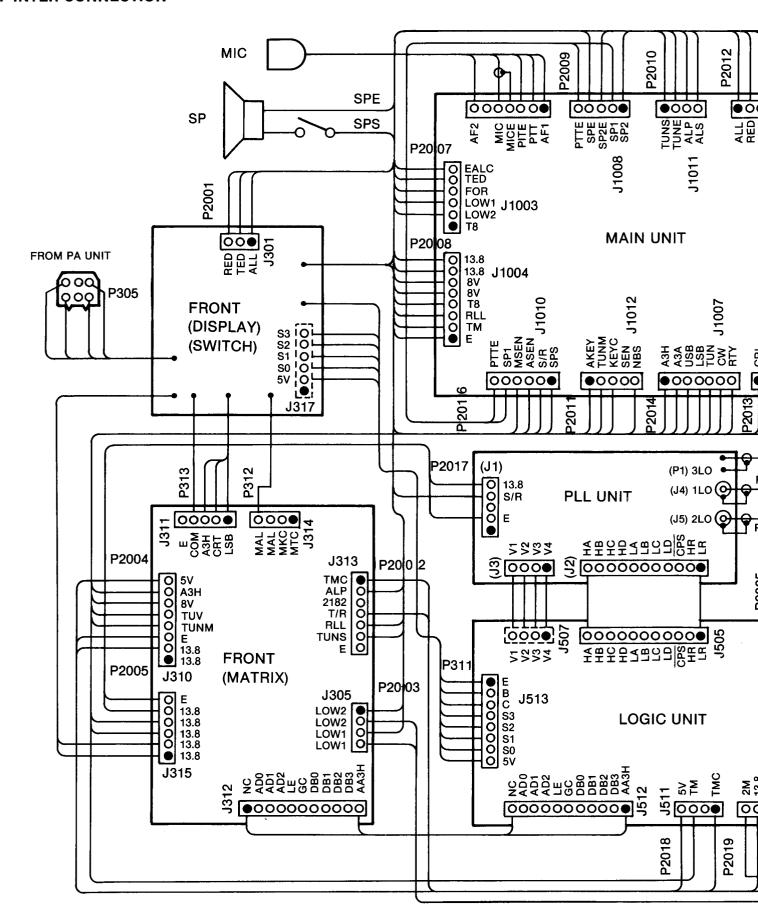
7.8 V DC Voltage by 50 K Ω -V multimeter

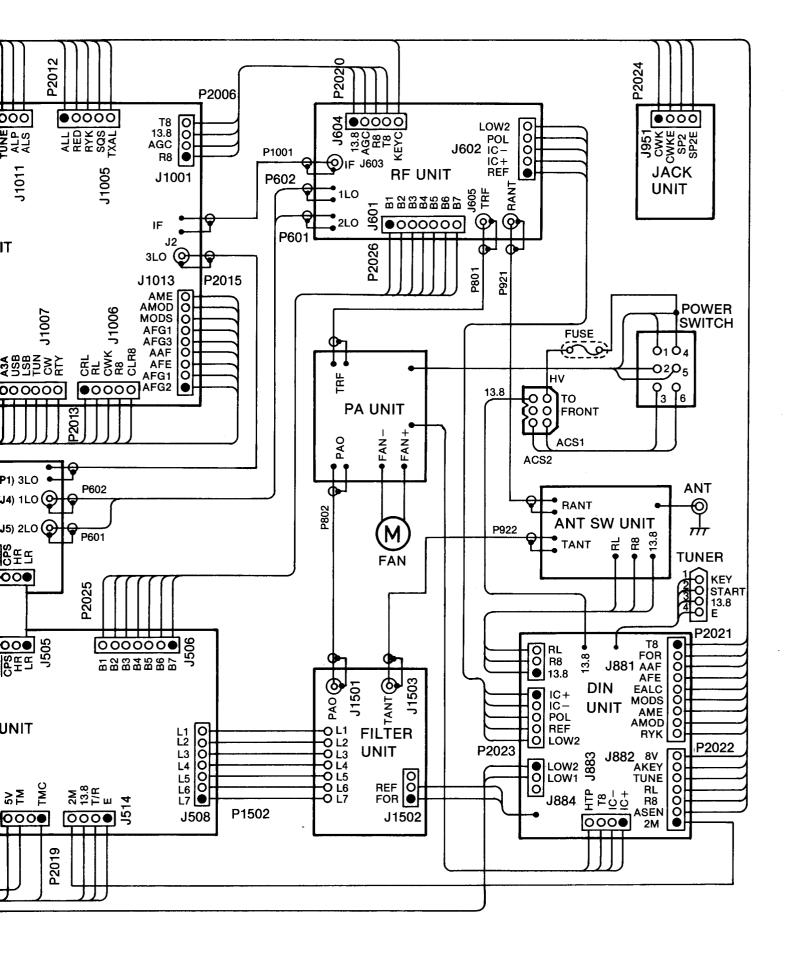


7-10 PA UNIT AND OTHER UNIT



8-1 INTER CONNECTION

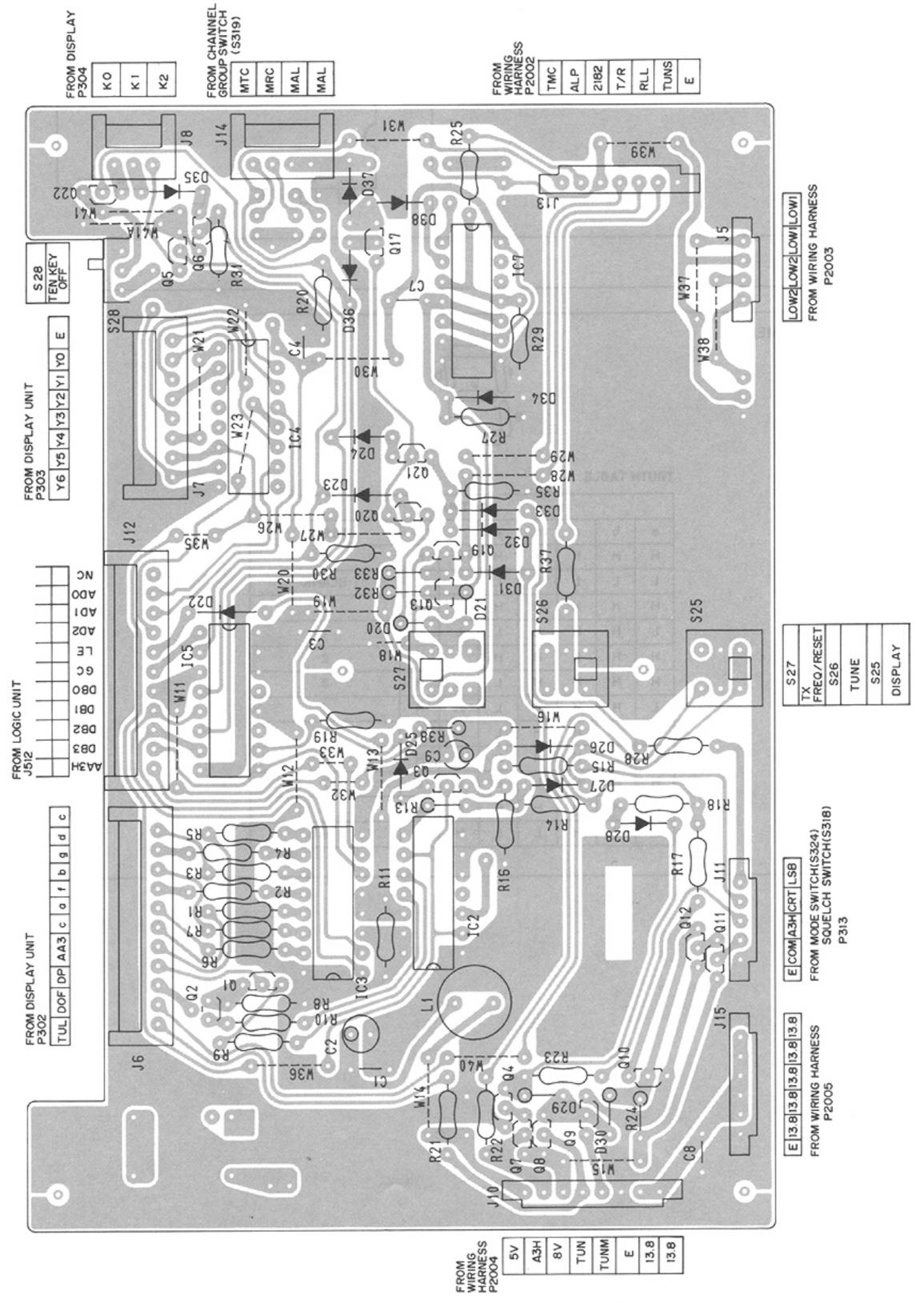




8-2 FRONT UNIT (MATRIX)

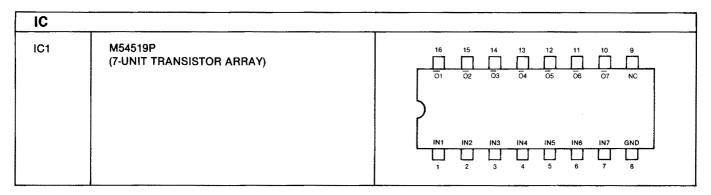
IC	Manufacture and the second sec				
IC2	TC4011BP (QUAD 2-INPUT POSITIV	E NAND GATE)	14 13 12 11 10 9 8 Voo Voo Vss 1 2 3 4 5 6 7		
IC3	TC4511BP (BCD TO 7-SEGMENT LATCH/DECODER/DRIVE	ER)	16 15 14 13 12 11 10 9 Voo f g a b c d e BIN CIN LT BI LE DIN AIN V _{SS} 1 2 3 4 5 6 7 8		
IC4	TC4028BP (BCD TO DECIMAL DECC	DDER)	16 15 14 13 12 11 10 9 V ₀₀ Q3 Q1 B C D A Q8 Q4 Q2 Q0 Q7 Q9 Q5 Q6 V _{SS} 1 1 2 3 4 5 6 7 8		
IC5	μPD4503BC (HEX NON-INVERTING 3-5	STATE BUFFER)	16 15 14 13 12 11 10 9 Voo Voo Voo Voo Voo Voo Voo Voo Voo Voo		
IC7	TC4013BP (DUAL "D" FLIP-FLOP WI CAPABILITY)	TH SET/RESET	14 13 12 11 10 9 8 V _{DD} Q CL CK Q PR D Q PR D V _{SS} V _{SS} 1 2 3 4 5 6 7		
	SIUR	02 040 004		Q4, Q9, Q12,	
Q1, Q2 2SA1048	BASE COLLECTOR EMITTER	Q3, Q10, Q21 2SC2458 BASE COLLECTOR EMITTER	B—C	Q13, Q19 2SC3399 2SC3399 BASE COLLECTOR EMITTER	
Q5, Q6, Q17 Q20, Q22 2SA1345	BASE COLLECTOR EMITTER	Q7, Q8, Q11 2SA1348 BASE COLLECTOR EMITTER	BW		

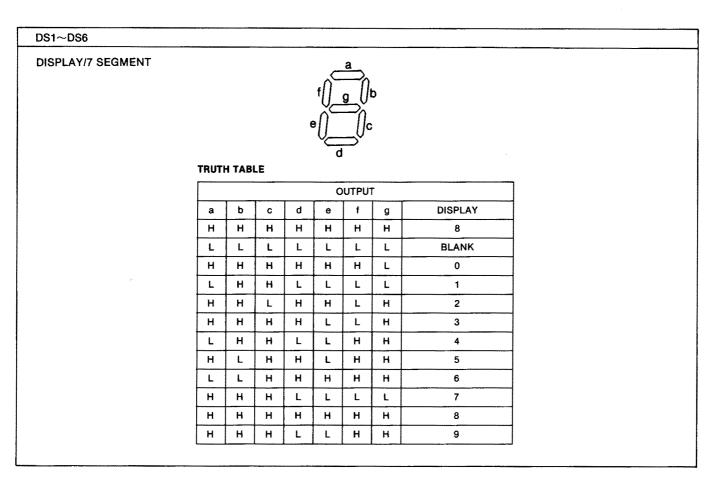
MATRIX UNIT



NOTE: Add "300" to the indicated number on the unit for actual part number respectively.

8-3 FRONT UNIT (DISPLAY AND CHANNEL SWITCH)





• DISPLAY UNIT CHANNEL SWITCH UNIT TO MATRIX (J308) UNIT TO LOGIC UNIT J512 DIS 5V SO SI S2 S3 SWITCH KO KI K2 P 304 **D14** S320 CHANNEL R X WRITE T X WRITE \$12 513 Θ 0 0 DID TENKEY 8 SI S 90 TENKEY 0 TENKEY 5 \$ 10 5 5 õ KEYBOARD) (PROGRAMMING KEYBOARD) TENKEY TENKEY 4 05 35 89 8 9 (PROGRAMMING 92 TENKEY 8 TENKEY 3 8 8 TENKEY 2 TENKEY 7 \$2 57 8 TENKEY 6 TENKEY 28 -S s 8 0 0 057 (RECEIVE) X I DOM'S 3 Y6 Y5 Y4 Y3 Y2 Y1 Y0 E TO MATRIX (J307) UNIT P303 XIKHZ 058 055 (TRANSMIT) TUL DOF DP KDP e a f b X10kHz TO MATRIX (J306) UNIT P302 X100 kHz 083 CTUNER W. 650 XIMHZ VI 052 DS10 XTOMHZ

P302

RED TED ALL

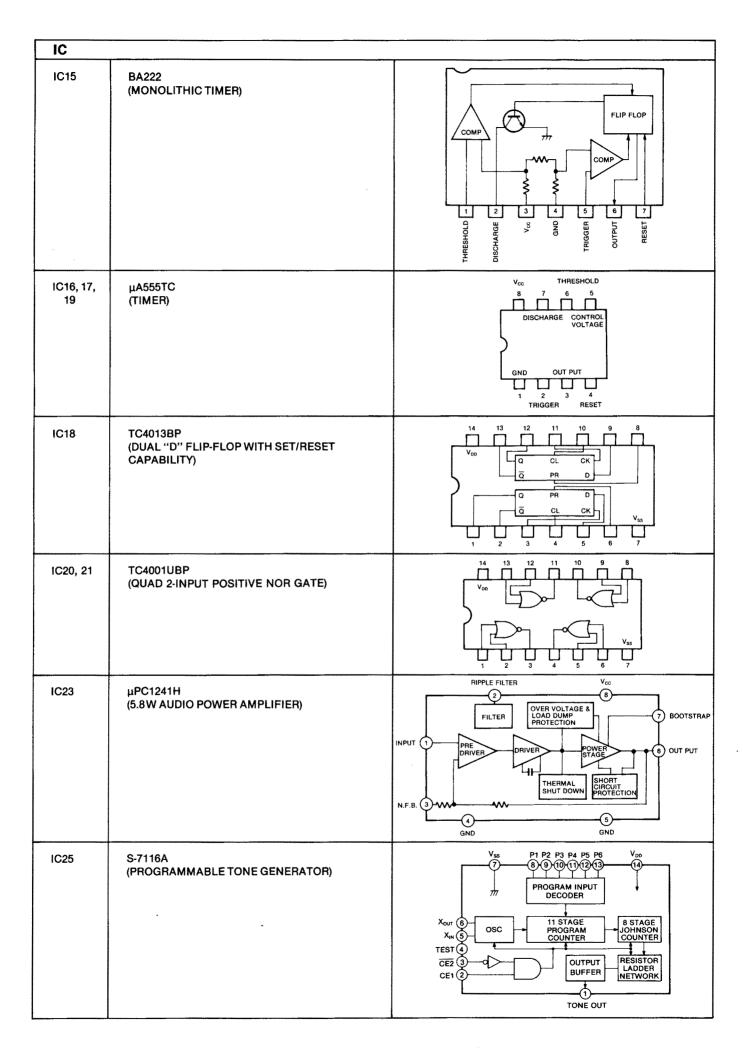
FROM MATRIX (J306) UNIT

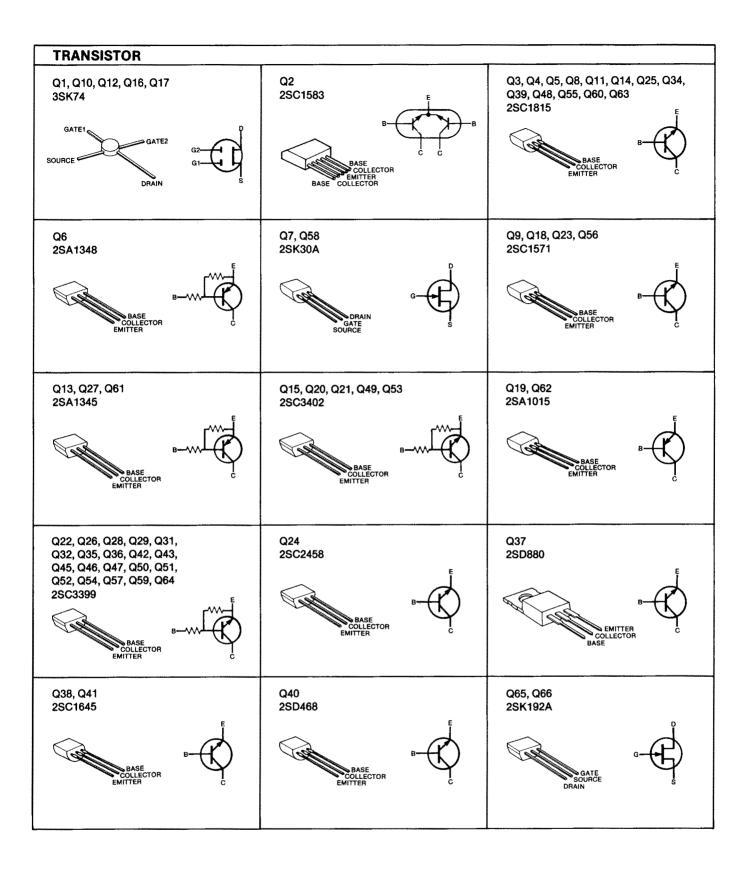
(ALM)

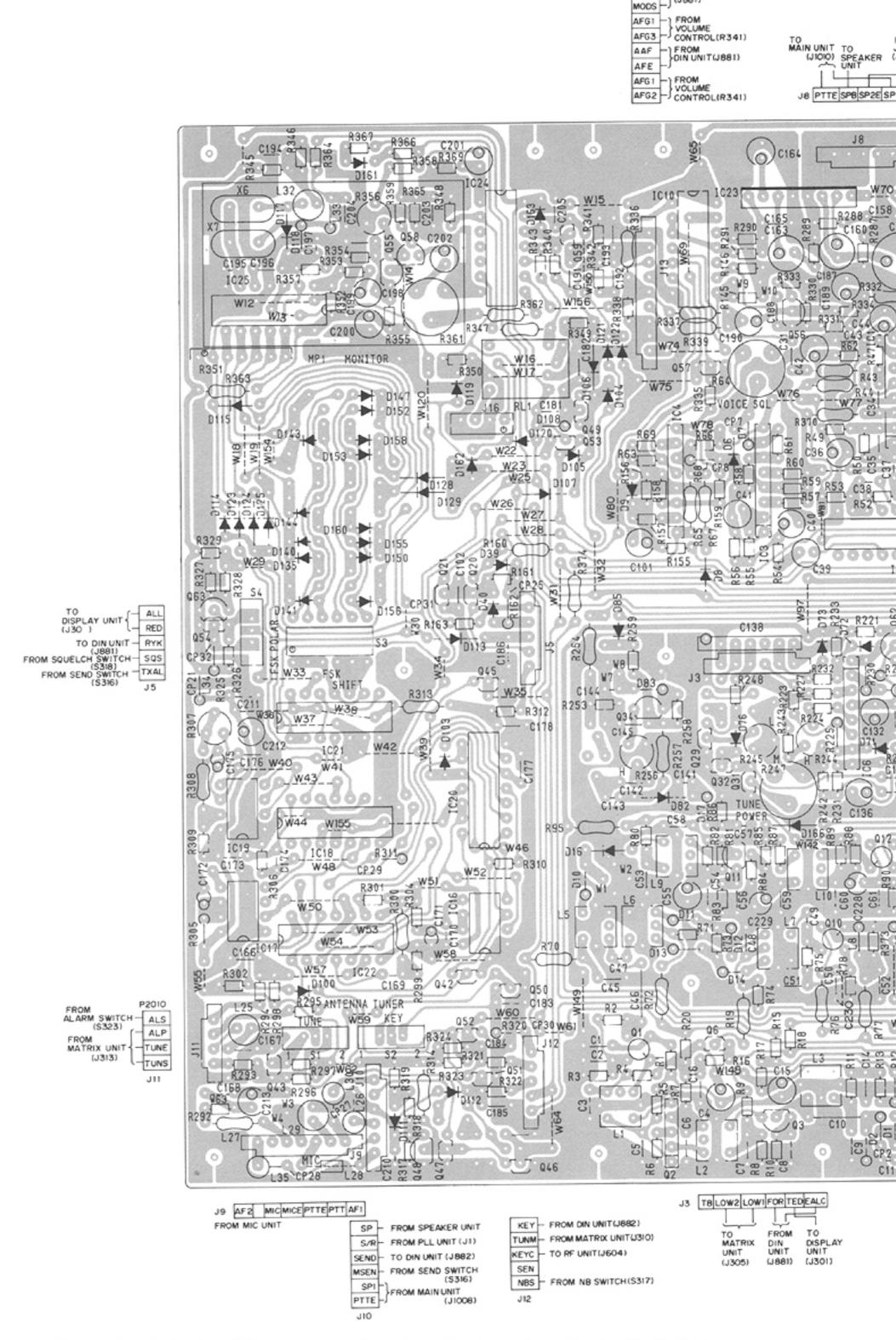
0

8-4 MAIN UNIT

IC		
IC1, 3, 4, 5, 6	M5218L (LOW NOISE DUAL OPERATIONAL AMPLIFIER)	1 2 3 4 5 6 7 8 OUT IN IN V- IN IN OUT V+
IC2, 22	TC4011UBP (QUAD 2-INPUT POSITIVE NAND GATE)	14 13 12 11 10 9 8 V ₀₀ V _{ss} V _{ss} 1 2 3 4 5 6 7
IC7, 8, 11	μPC1037H (DOUBLE BALANCED MODULATOR)	V _{CC} OUT1 OUT2 GND IN Bypass IN 1 2 3 4 5 6 7
IC9	TC40H074P (DUAL "D" TYPE FLIP FLOP)	14 13 12 11 10 9 8 Vcc CLR Q CLK CLR Q GND 1 2 3 4 5 6 7
IC10, 24	TC4066BP (QUAD BILATERAL SWITCH)	CONTROL IN IN/ OUT/ OUT/ IN/ IN/ OUT IN IN OUT IN IN OUT IN IN OUT IN IN OUT IN IN/ OUT/ CONTROL IN
IC12, 14	TC4011BP (QUAD 2-INPUT POSITIVE NAND GATE)	14 13 12 11 10 9 8 V _{0D} V _{SS} V _{SS} 1 2 3 4 5 6 7
IC13	μΑ7808 (3-TERMINAL 8 V REGULATOR)	1 OUTPUT 2 GND 3 INPUT





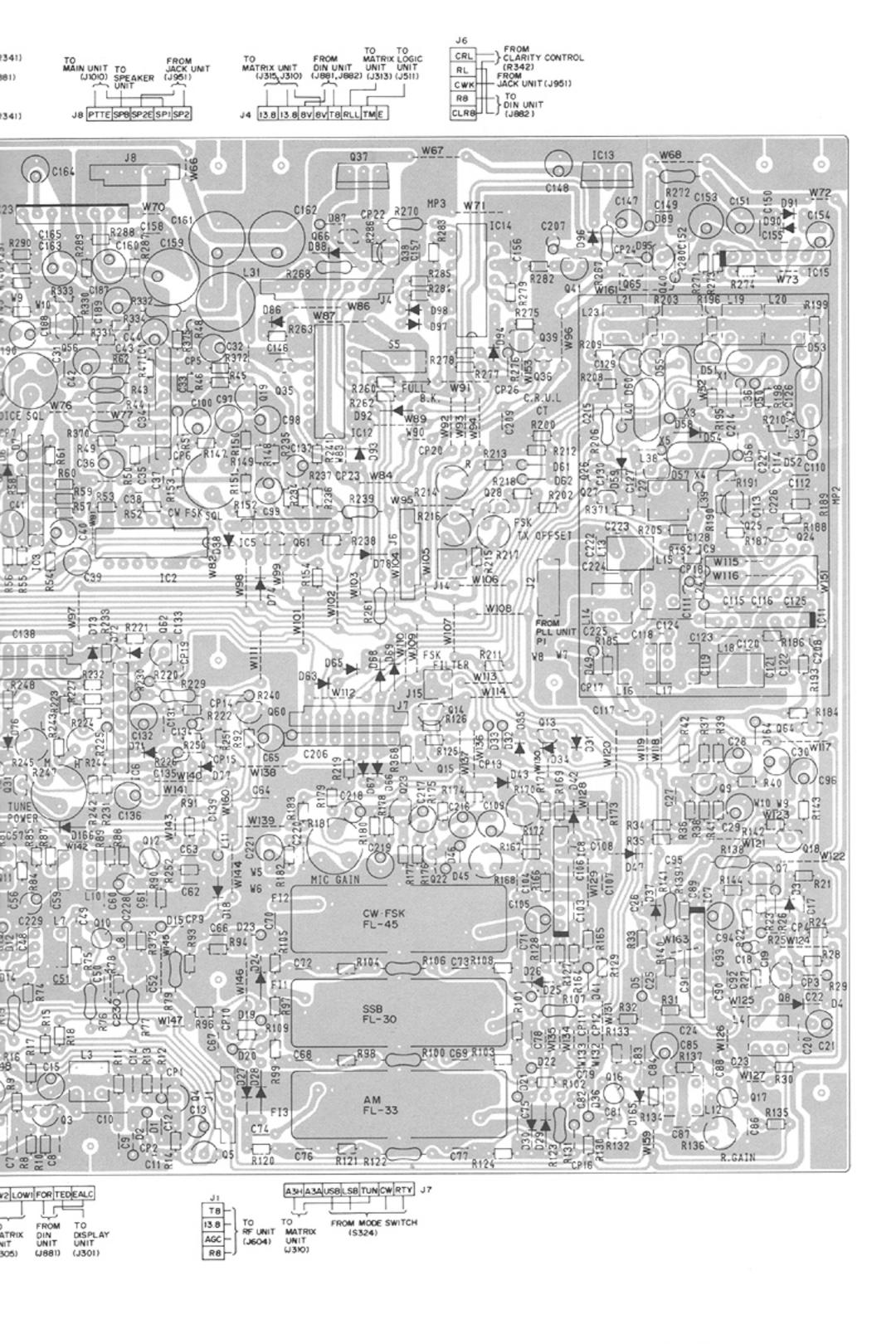


AME

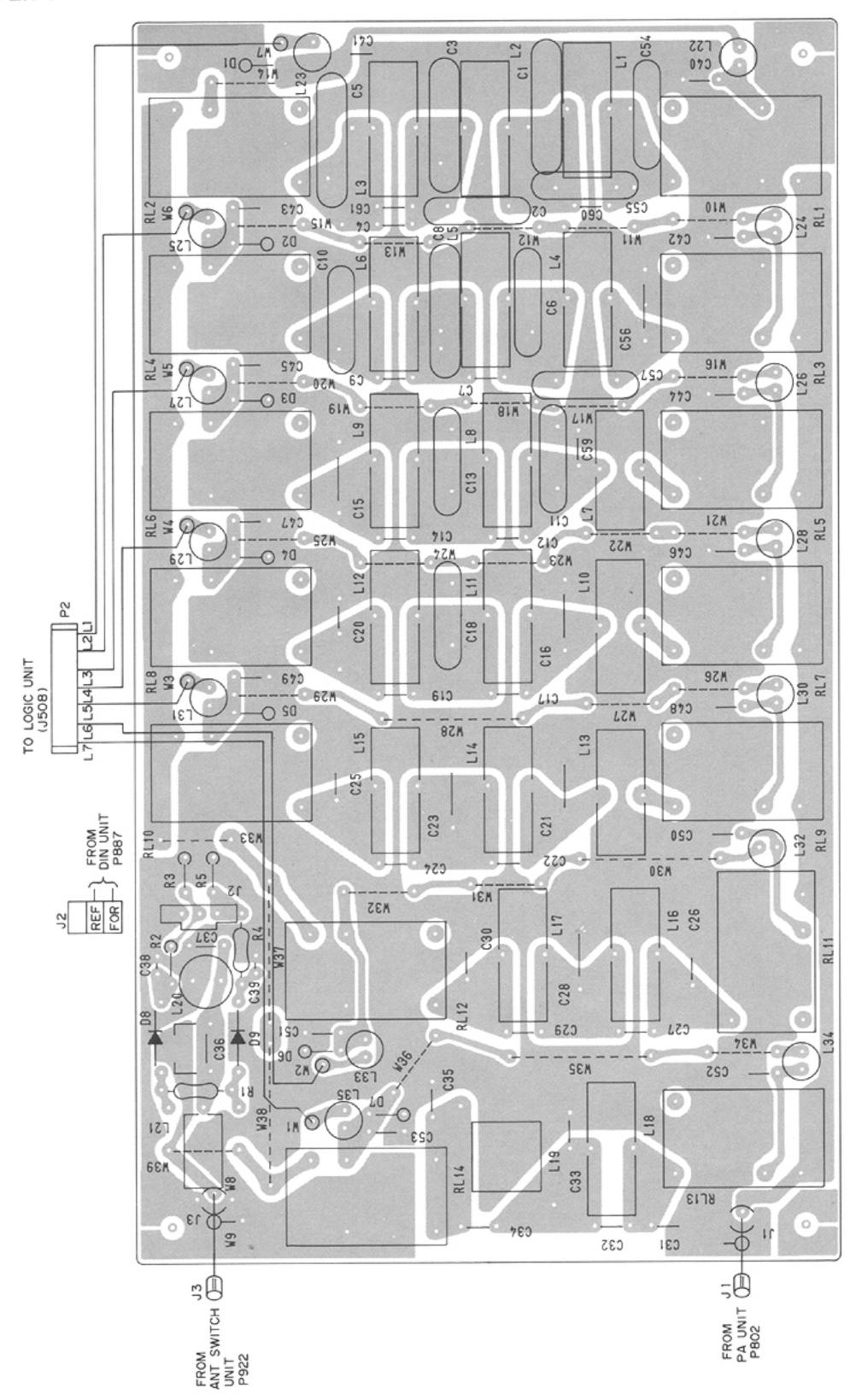
AMOD

FROM DIN UNIT

NOTE: Add "1000" to the indicated number on the unit for actual part number respectively.

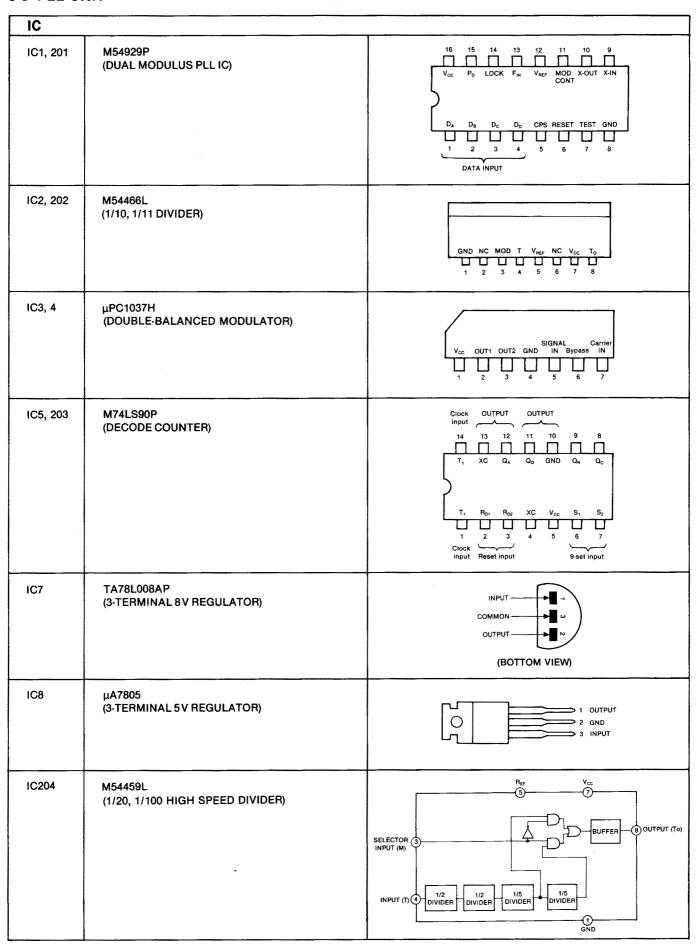


8-5 FILTER UNIT



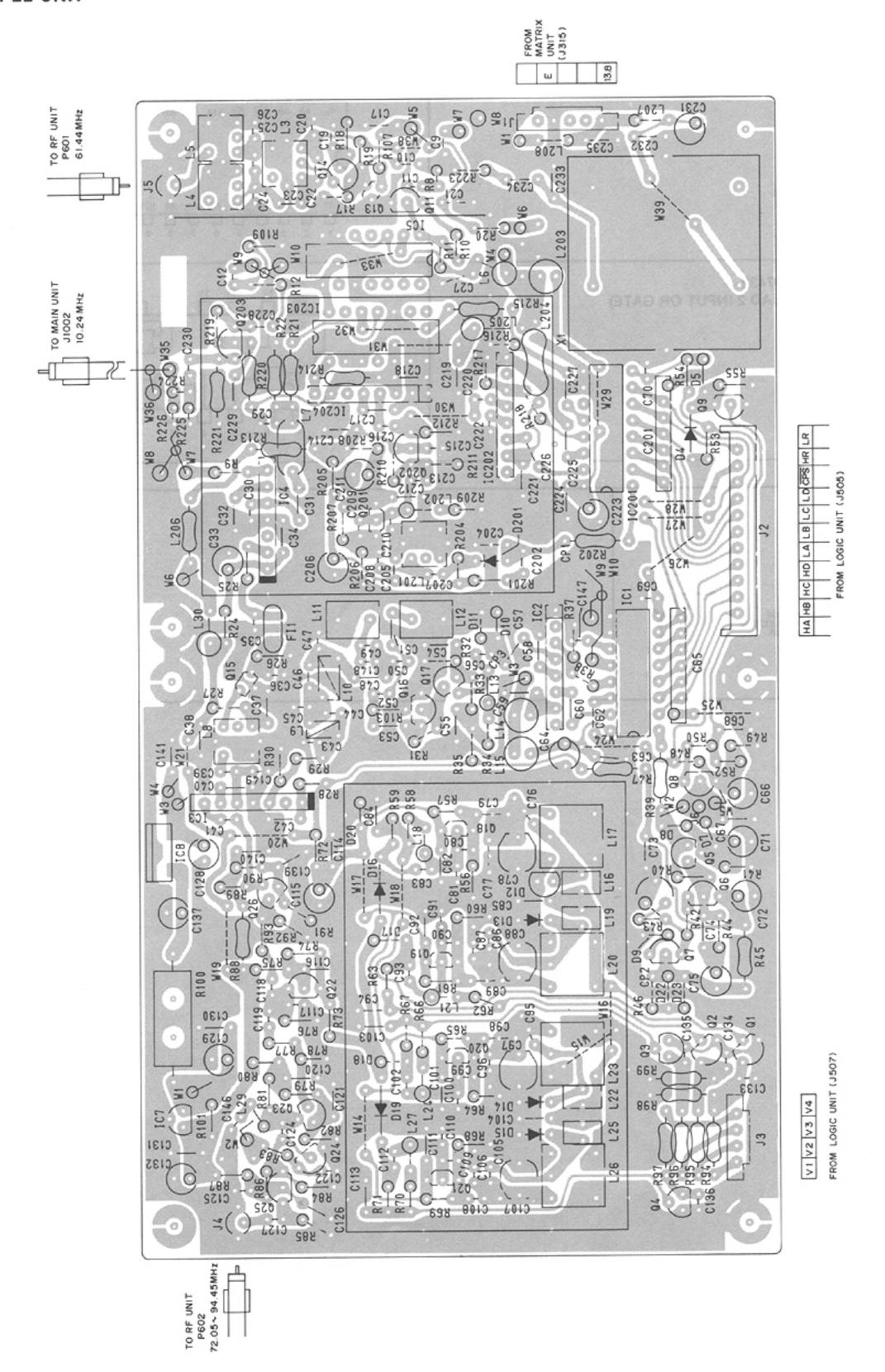
NOTE: Add "1500" to the indicated number on the unit for actual part number respectively.

8-6 PLL UNIT

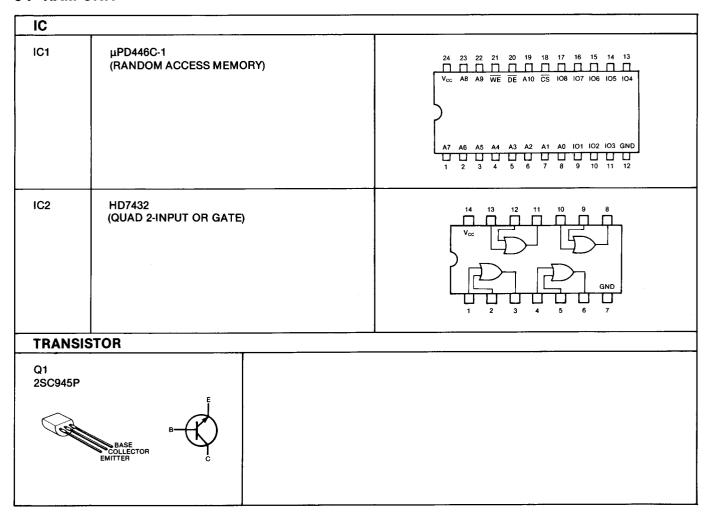


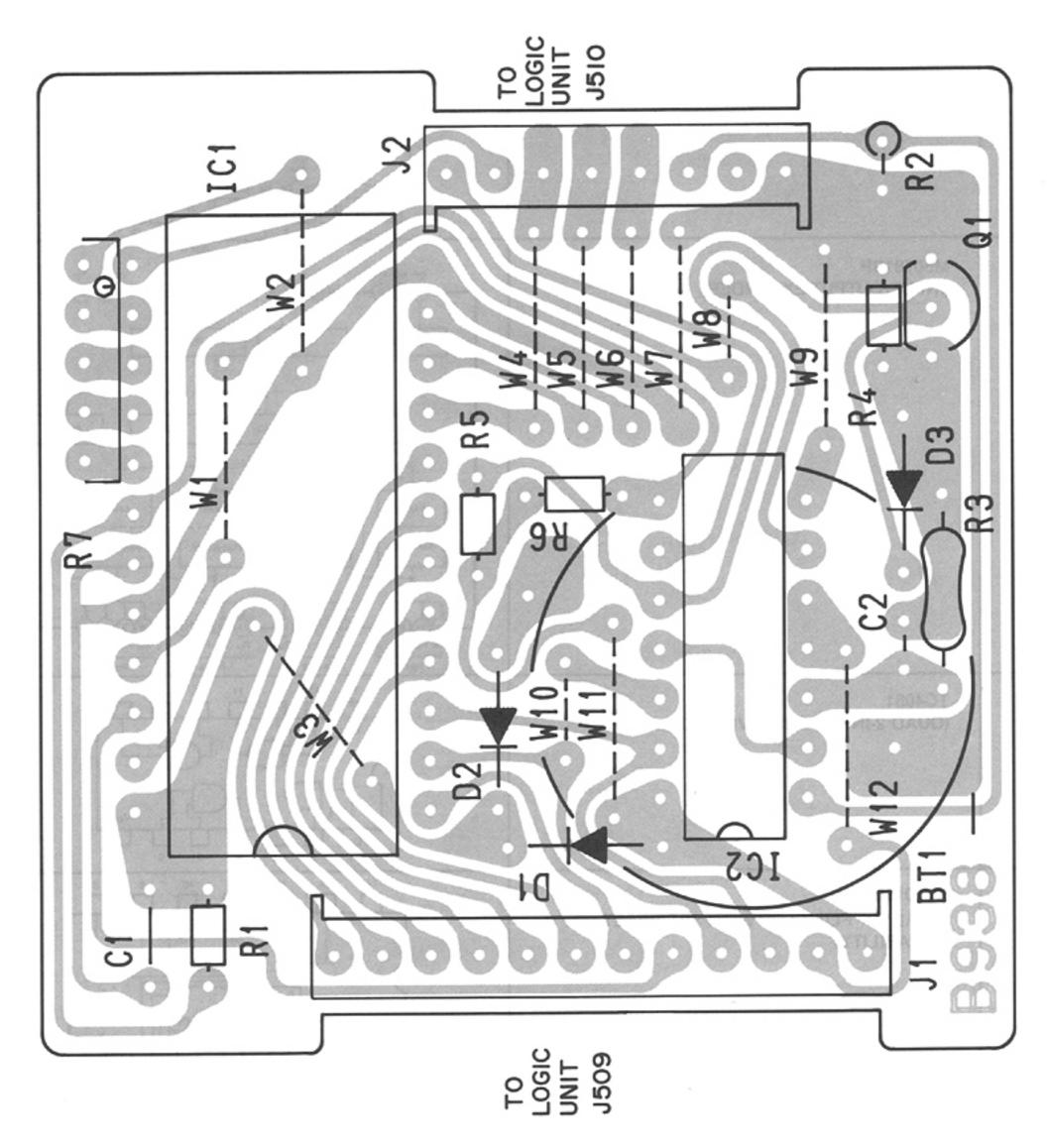
TRANSISTOR		
Q1, Q2, Q3, Q4, Q9, Q24, Q203 2SC945	Q5, Q6 2SK30A	Q7 2SC1571
BASE COLLECTOR EMITTER	DRAIN GATE SOURCE	BASE COLLECTOR EMITTER
Q8 2SA1015	Q11, Q24, Q16, Q17, Q22, Q23, Q25, Q26 2SC383TM	Q13 2SC3399
BASE COLLECTOR EMITTER	BASE COLLECTOR EMITTER	BASE COLLECTOR EMITTER
Q15 2SK241	Q18, Q19, Q20, Q21, Q201 2SK192A	Q202 2SC763
GATE SOURCE DRAIN	SOURCE GATE DRAIN	EMITTER COLLECTOR BASE

• PLL UNIT



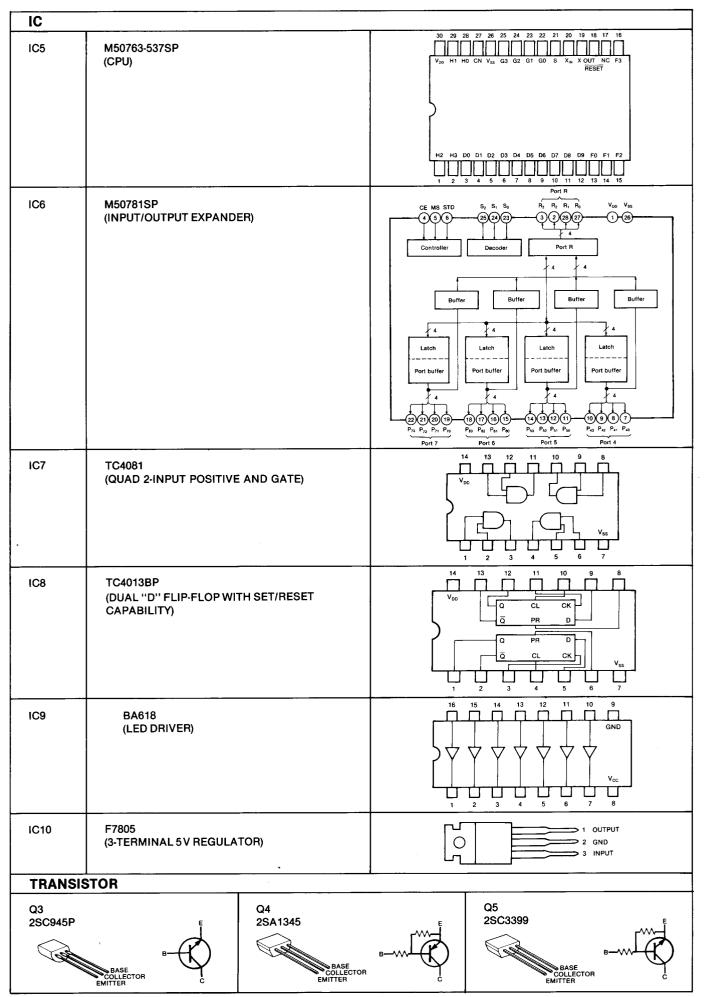
8-7 RAM UNIT



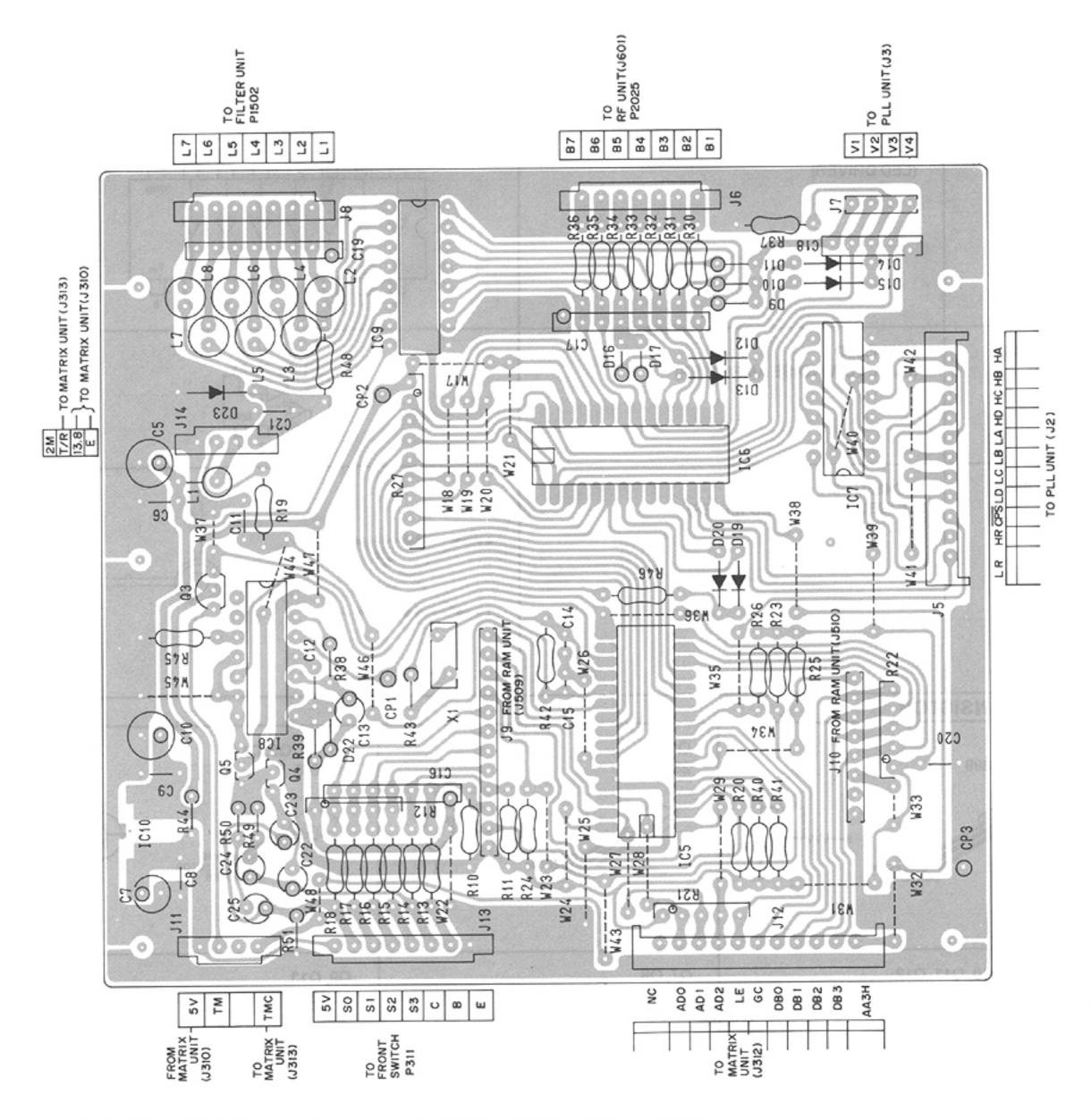


NOTE: Add "500" to the indicated number on the unit for actual part number respectively.

8-8 LOGIC UNIT

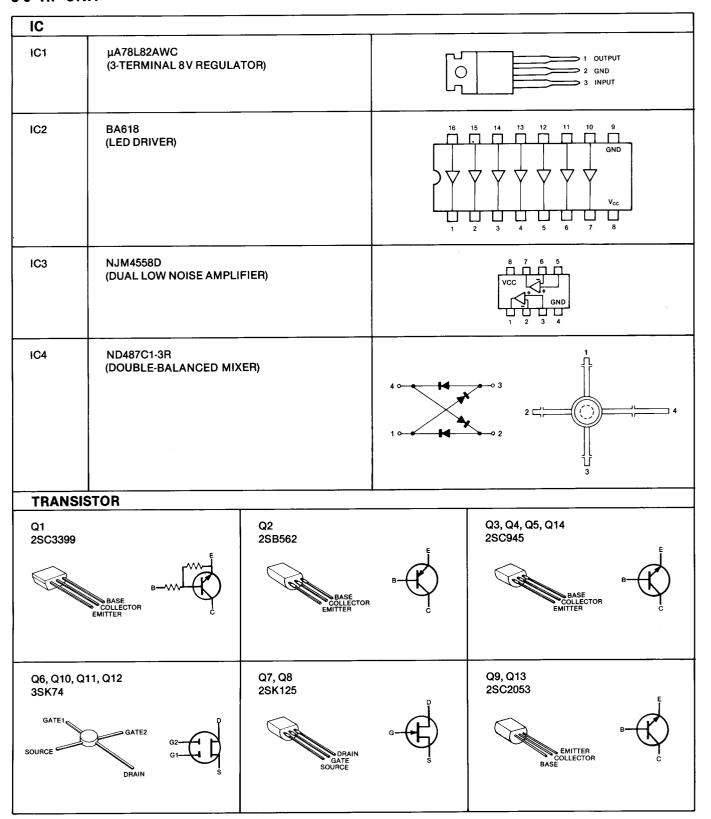


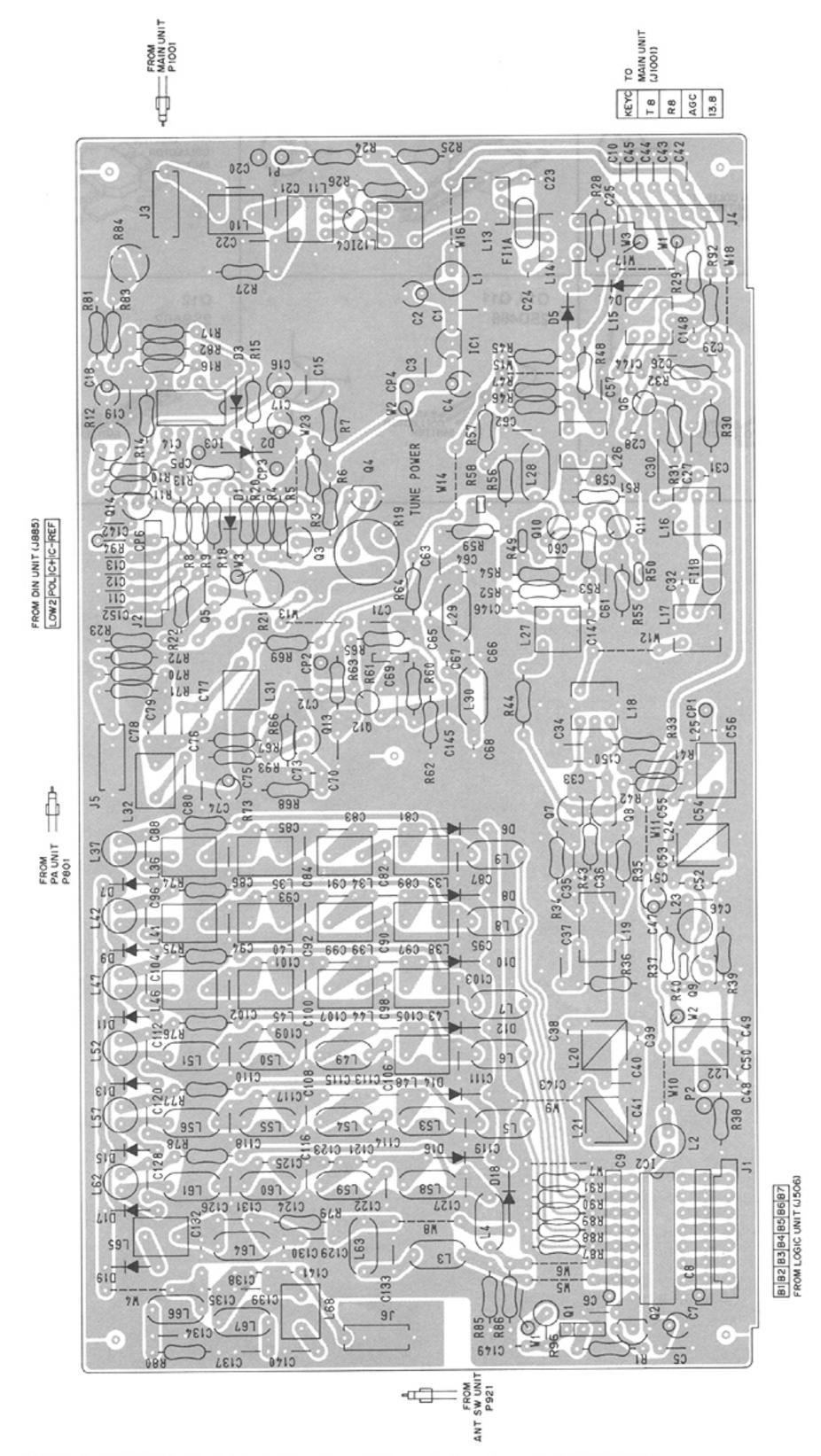
LOGIC UNIT



NOTE: Add "500" to the indicated on the unit for actual part number respectively.

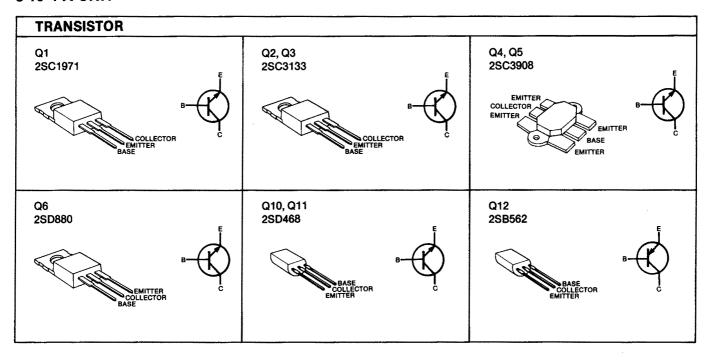
8-9 RF UNIT

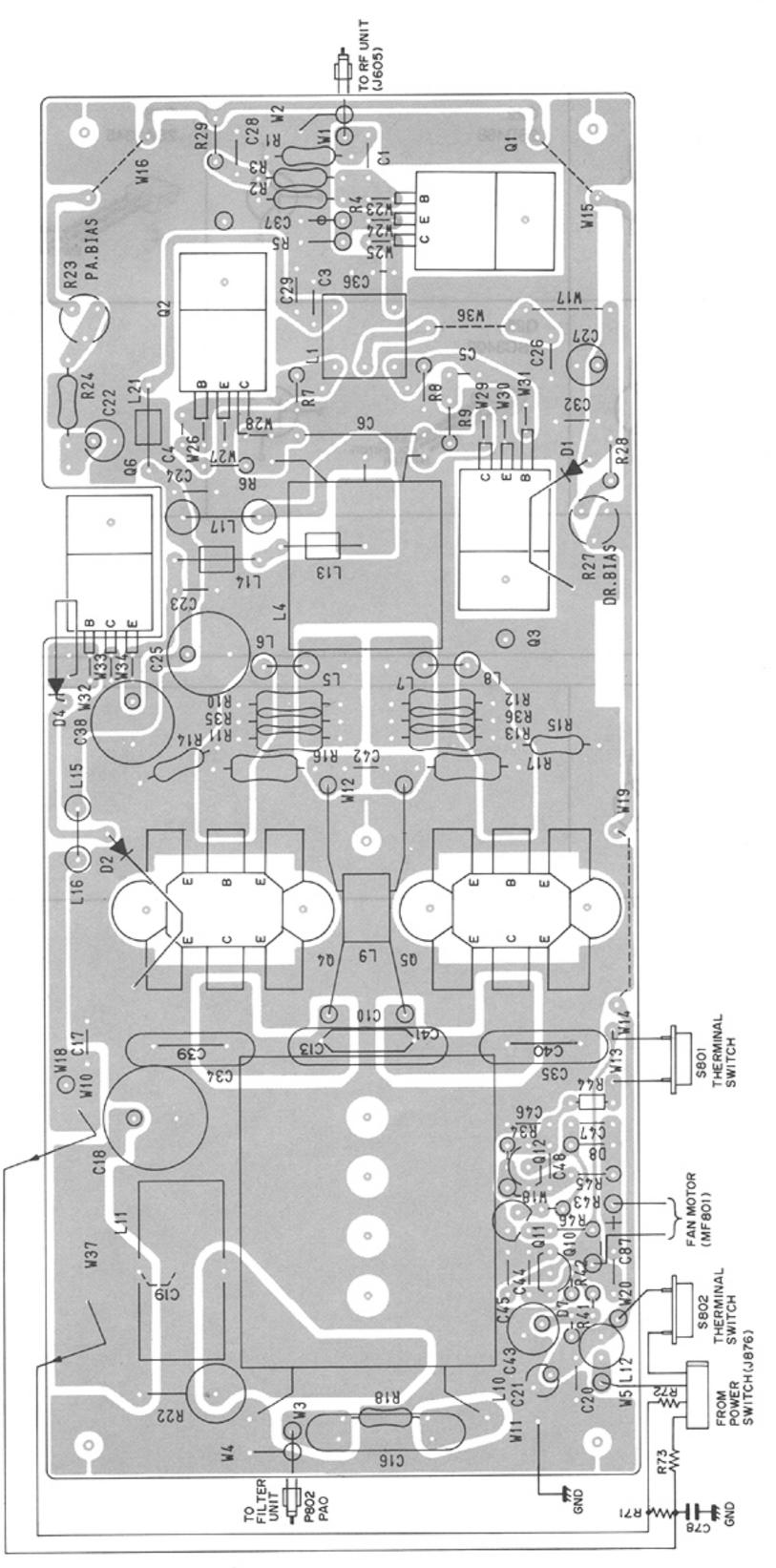




NOTE: Add "600" to the indicated on the unit for actual part number respectively.

8-10 PA UNIT





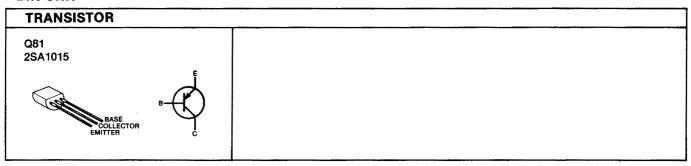
NOTE: Add "800" to the indicated on the unit for actual part number respectively.

8-11 OTHER UNITS

• ANT SW UNIT

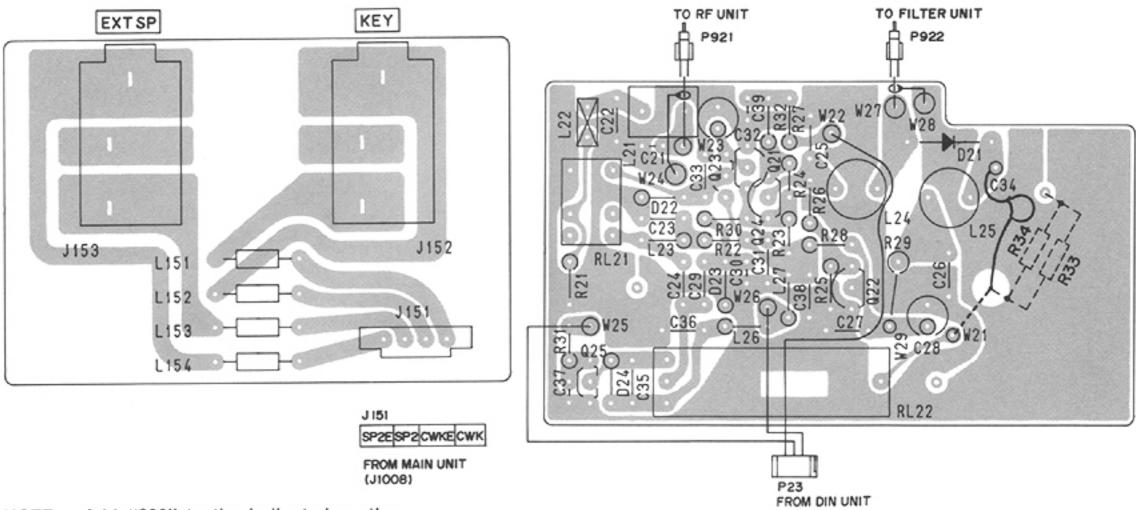
TRANSISTOR		
Q21 2SC945 BASE COLLECTOR EMITTER	Q22 2SD468 BASE COLLECTOR EMITTER	Q23 2SA1345 BASE COLLECTOR EMITTER
Q24 2SB562 BASE COLLECTOR EMITTER	Q25 2SC3402 BASE COLLECTOR EMITTER	

• DIN UNIT



JACK UNIT

ANT SW UNIT

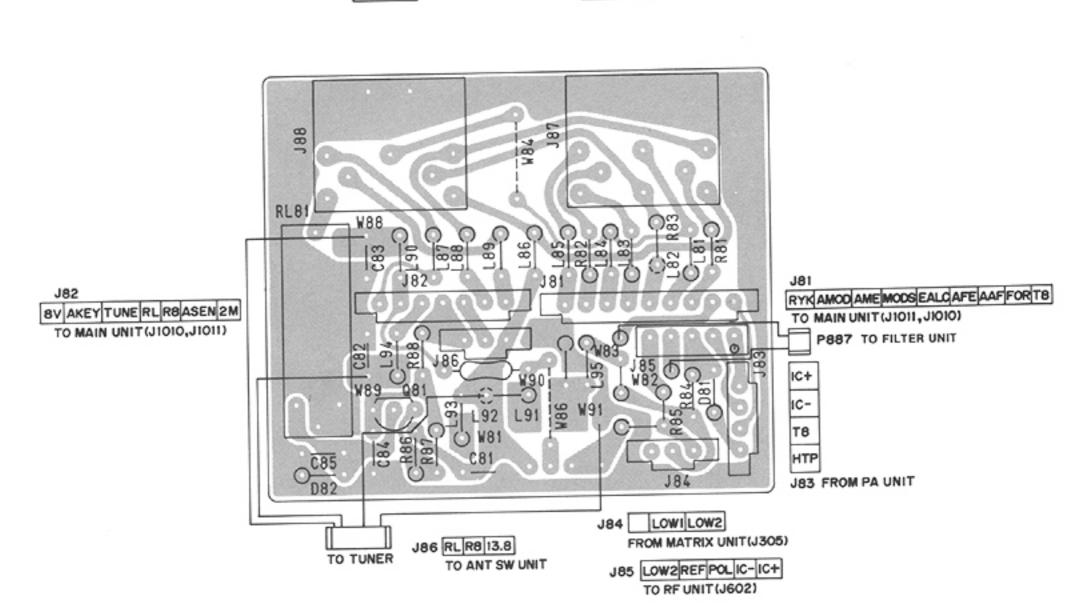


NOTE: Add "800" to the indicated on the unit for actual part number respectively.

NOTE: Add "900" to the indicated on the unit for actual part number respectively.

DIN UNIT

ACC(2) ACC(1)



NOTE: Add "800" to the indicated on the unit for actual part number respectively.

[FRONT UNIT]

REF. NO. **DESCRIPTION** PART NO. IC301 IC M54519P IC302 IC TC4011BP IC303 IC TC4511BP IC304 IC TC4028BP IC305 IC uPD4503BC IC307 IC TC4013BP Q301 **Transistor** 2SA1048 Y Q302 Transistor 2SA1048 Y Q303 **Transistor** 2SC2458 GR Q304 2SC3399 **Transistor** Q305 Transistor 2SA1345 Q306 **Transistor** 2SA1345 Q307 Transistor 2SA1348 Q308 Transistor 2SA1348 Q309 **Transistor** 2SC3399 Q310 Transistor 2SC2458 GR Q311 **Transistor** 2SA1348 Q312 Transistor 2SC3399 Q313 **Transistor** 2SC3399 Q317 **Transistor** 2SA1345 Q319 **Transistor** 2SC3399 Q320 Transistor 2SA1345 Q321 2SC2458 GR **Transistor** Q322 Transistor 2SA1345 D301 Diode 1S953 D302 Diode 1S953 D303 Diode 1S953 D304 Diode 1S953 D305 Diode 1S953 D306 Diode 1S953 D310 Diode 1S953 D311 1S953 Diode D312 Diode 1SS53 D313 Diode **1SS53** D314 Diode 18853 D315 Diode **1SS53** D320 Diode **1SS53** D321 Diode 1S953 D322 Diode 1S953 D323 Diode 18853 D324 Diode **1SS53** D325 Diode **1SS53** D326 Diode 1S953 D327 Diode 1S953 D328 Diode **1SS53** D329 Diode 1S953 D330 Diode 1S953 Diode D331 1SS53 D332 Diode 1SS53 D333 Diode **1SS53** D334 Diode 1S953 D335 Diode 1S953 D336 Diode **1SS53** D337 Diode **1SS53** D338 Diode **1S953** D345 Diode **1SS53**

[FRONT UNIT]

REF. NO.	DESCRIPTION	PART	NO.
D346	Diode	18853	
L301	Coil	FL9H	471K
R301 R302	Resistor Resistor	27 27	R25 R25
R303	Resistor	27	R25
R304	Resistor	27	R25
R305	Resistor	27	R25
R306	Resistor	27	R25
R307 R308	Resistor Resistor	27 27	R25 R25
R309	Resistor	8.2k	R25
R310	Resistor	33k	R25
R311	Resistor	47k	R25
R313	Resistor	1k	ELR25
R314	Resistor	47k	R25
R315 R316	Resistor Resistor	27k 47k	R25 R25
R317	Resistor	10k	R25
R318	Resistor	2.2k	R25
R319	Resistor	220k	R25
R320	Resistor	470k	R25
R321 R322	Resistor Resistor	1.2k 27k	R25 R25
R323	Resistor	4.7k	R25
R324	Resistor	4.7k	ELR25
R325	Resistor	27k	R25
R327	Resistor	470k	R25
R328 R329	Resistor	22k 47k	R25 R25
R329	Resistor Resistor	47K 470k	R25
R331		470k	R25
R332	Resistor	4.7k	ELR25
R333	Resistor	10k	ELR25
R335 R337	Resistor Resistor	47k 10	R25 R25
R338	Resistor	1.5k	ELR25
R341	Variable Resisto		
R342	Variable Resisto	r RKDA1	4 10kB
C301	Ceramic	0.0047	50V
C302	Electrolytic	100	10V MS7
C303	Barrier Lay	0.1	16V
C304	Barrier Lay	0.047	25V
C307	Mylar	0.022	50V
C308 C309	Ceramic Electrolytic	0.0047 4.7	50V 25V MS7
0003	Lieotrorytro	-T+1	251 11157
1301	Connector	TL-25P-0	2.1.1
J301 J302	Connector Connector	TLB-P11	
J303	Connector	TLB-P08	
J305	Connector	TL-25P-0	3
J306	Connector	TL-25P-1	
J307	Connector	TL-25P-0	
J308	Connector	TL-25P-0	o-∟1

[FRONT UNIT]

[FRONT UNIT]

REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DESCRIPTION	PART NO.
REF. NO.	DESCRIPTION	PARI NO.		DESCRIPTION	
J310	Connector	TL-25P-08-V1	S324	Switch	SRRM25SK1315D
J311	Connector	TL-25P-05-V1		.	(L=15mm) (MODE)
J312	Connector	5138-11APB	S325	Switch	SPPH15009A (DISPLAY)
J313	Connector	TL-25P-07-V1	S326	Switch	SPPH15029A (TUNER)
J314	Connector	TL-25P-04-L1	S327	Switch	SPPH15029A (TX FREQ)
J315	Connector	TL-25P-06-V1	S328	Switch	SSSS21148A TYPE (B)
J317	Connector	TLB-P06H-B1			
			SP301	Speaker	C080K1710810
P302	Connector	TL-25H-11-B1			
P303	Connector	TL-25H-08-B1			
P304	Connector	TL-25H-03-B1	EP301	P.C.B	B-1106C (42697)
P305	Connector	1261P1	EP302	P.C.B	B-891C (42696)
P311	Connector	TL-25H-08-B1	EP303	P.C.B	B-894C (42514)
P312	Connector	TL-25H-04-B1			
P313	Connector	TL-25H-05-B1			
1010	Comilector	1 E-2311-03-B1	W301	Jumper	IPS-1041-4
			W302	Jumper	IPS-1041-4
DS301	LED	TI C2424 (4014)	W303	Jumper	IPS-1041-4
	LED	TLG312A (10M)		•	
DS302	LED	TLG312A (1M)	W304	Jumper	IPS-1041-4
DS303	LED	TLG312A (100K)	W305	Jumper	IPS-1041-4
DS304	LED	TLG312A (10K)	W308	Jumper	IPS-1041-2
DS305	LED	TLG312A (1K)	W311	Jumper	IPS-1041-4
DS306	LED	TLG312A (100Hz)	W312	Jumper	IPS-1041-4
DS307	LED	SLP251B (Receive)	W313	Jumper	IPS-1041-4
DS308	LED	SLP151B (Transmit)	W314	Jumper	IPS-1041-4
DS309	LED	SLP451B (Tuner)	W315	Jumper	IPS-1041-4
DS310	LED	SLP151B (Alarm)	W316	Jumper	IPS-1041-4
		, ,	W318	Jumper	IPS-1041-2
			W319	Jumper	IPS-1041-4
S301	Switch	SKHHAB062A	W320	Jumper	IPS-1041-4
	OWNON	(TENKEY 1)	W321	Jumper	IPS-1041-4
S302	Switch	SKHHAB062A	W322	Jumper	IPS-1041-4
0002	OWITCH	(TENKEY 2)	W323	Jumper	IPS-1041-4
0000	Outland	-	W326	Jumper	IPS-1041-4
S303	Switch	SKHHAB062A	1 1	•	
	0 11 1	(TENKEY 3)	W327	Jumper	IPS-1041-4
S304	Switch	SKHHAB062A	W328	Jumper	IPS-1041-4
		(TENKEY 4)	W329	Jumper	IPS-1041-4
S305	Switch	SKHHAB062A	W330	Jumper	IPS-1041-4
		(TENKEY 5)	W332	Jumper	IPS-1041-2
S306	Switch	SKHHAB062A	W333	Jumper	IPS-1041-2
		(TENKEY 6)	W335	Jumper	IPS-1041-2
S307	Switch	SKHHAB062A	W336	Jumper	IPS-1041-4
i		(TENKEY 7)	W337	Jumper	JPW-02A
S308	Switch	SKHHAB062A	W338	Jumper	JPW-02A
		(TENKEY 8)	W339	Jumper	IPS-1041-4
S309	Switch	SKHHAB062A	W340	Jumper	IPS-1041-4
		(TENKEY 9)	W341	Jumper	JPW-02A
S310	Switch	SKHHAB062A	W345	Flat Cable	SMCD-11X100-BDX10G
00.0	5	(TENKEY 0)	W348	Jumper	23/00/125/C22/C01
S311	Switch	SKHHAB062A	W349	Jumper	23/01/125/C22/C01
3311	OWITCH	(TENKEY CE)	W350	Jumper	23/02/125/C22/C01
6242	Switch	•		•	23/03/125/C22/C01
S312	SWILCH	SKHHAB062A	W351	Jumper	
2010		(TENKEY TX)	W352	Jumper	23/04/125/C22/C01
S313	Switch	SKHHAB062A	W353	Jumper	23/05/125/C22/C01
		(TENKEY RX)	W354	Jumper	23/06/125/C22/C01
S315	Switch	SDDSA3159A (POWER)	W355	Jumper	23/07/125/C22/C01
S316	Switch	M2019J-1K (SEND)	W358	Jumper	23/01/060/W02/C01
S317	Switch	M2012J-1K (NB)	W359	Jumper	23/02/070/W02/C01
S318	Switch	M2012J-1K (SQUELCH)	W360	Jumper	23/03/070/W02/C01
S319	Switch	SRRM25SS2620D	W362	Jumper	23/00/230/W02/C01
		(L=20mm) (CH(A,B,C))	W363	Jumper	23/09/230/W02/C01
S320	Switch	SRRS1G013A (CH SW)	W364	Jumper	23/06/230/W02/C01
S323	Switch	MB-2011-8R (ALARM)	W365	Jumper	23/07/180/W02/C01
				- · · - ·	

[FRONT UNIT]

[FRONT	UNIT]	
REF. NO.	DESCRIPTION	PART NO.
W366	Jumper	23/08/180/C22/C01
W367	Jumper	23/04/180/C22/C01
W368	Jumper	23/02/180/C22/C01
W369	Jumper	23/01/180/C22/C01
W370	Jumper	23/05/180/C22/C01
W376	Jumper	23/01/100/W02/C01
W377	Jumper	23/02/100/W02/C01
W378	Jumper	23/03/100/W02/C01
W379	Jumper	23/04/100/W02/C01
W380	Jumper	23/00/100/W02/C01
W381 W382	Jumper Jumper	23/09/110/W02/W02 JPW-02A
W383	Jumper	JPW-02A JPW-02A
W384	Jumper	13/03/100/W02/A05
W385	Jumper	13/02/100/W02/A05
W386	Jumper	13/09/100/W02/A05
W387	Jumper	13/09/100/W02/A05
W389	Jumper	23/04/110/C22/C01
W390	Jumper	23/06/115/C22/C01
W391	Jumper	23/01/120/C22/C01
W392	Jumper	23/02/125/C22/C01
W393	Jumper	23/03/130/C22/C01
W394	Jumper	23/04/135/C22/C01
W395	Jumper	23/05/140/C22/C01
W396	Jumper	23/06/145/C22/C01
W397	Jumper	23/07/150/C22/C01
W398	Jumper	23/08/155/C22/C01
W399	Jumper	23/09/160/C22/C01
W400 W401	Jumper Jumper	JPW-02A JPW-02A
		*
I		
l		

REF. NO.	DESCRIPTION	PART NO.
IC1001	IC .	M5218L
IC1002	IC	TC4011UBP
IC1003	IC	M5218L
IC1004 IC1005	IC IC	M5218L M5218L
IC1005	IC	M5218L
IC1007	IC	μPC1037H
IC1008	IC	μPC1037H
IC1009	IC	TC40H074P
IC1010 IC1011	IC IC	TC4066BP μPC1037H
IC1011	IC	TC4011BP
IC1013	iC	μΑ7808
IC1014	IC	TC4011BP
IC1015	IC	BA222
IC1016	IC	μA555TC
IC1017 IC1018	IC IC	μΑ555TC TC4013BP
IC1019	IC	μA555TC
IC1020	iC	TC4001UBP
IC1021	IC	TC4001UBP
IC1022	IC	TC4011UBP
IC1023 IC1024	IC IC	μPC1241H TC4066BP
IC1024 IC1025	IC	S-7116A
101020		
Q1001	FET	3SK74 M
Q1002	Transistor	2SC1583 G
Q1003	Transistor	2SC1815 GR
Q1004	Transistor	2SC1815 GR
Q1005 Q1006	Transistor Transistor	2SC1815 GR 2SA1348
Q1000	FET	2SK30A Y/GR
Q1008	Transistor	2SC1815 GR
Q1009	Transistor	2SC1571 G
Q1010	FET	3SK74 M
Q1011 Q1012	Transistor FET	2SC1815 GR 3SK74 M
Q1012 Q1013	Transistor	2SA1345
Q1014	Transistor	2SC1815 GR
Q1015	Transistor	2SC3402
Q1016	FET	3SK74 M
Q1017	FET	3SK74 M 2SC1571 G
Q1018 Q1019	Transistor Transistor	2SA1015 GR
Q1010	Transistor	2SC3402
Q1021	Transistor	2SC3402
Q1022	Transistor	2SC3399
Q1023	Transistor	2SC1571 G
Q1024	Transistor Transistor	2SC2458 GR 2SC1815 Y
Q1025 Q1026	Transistor	2SC3399
Q1027	Transistor	2SA1345
Q1028	Transistor	2SC3399
Q1029	Transistor	2SC3399
Q1031	Transistor Transistor	2SC3399 2SC3399
Q1032 Q1034	Transistor Transistor	2SC1815 GR
Q1035	Transistor	2SC3399
Q1036	Transistor	2SC3399
Q1037	Transistor	2SD880 Y
Q1038	Transistor	2SC1645 A/B 2SC1815 Y/GR
Q1039	Transistor	2301010 1/UN

REF. NO.	DESCRIPTION	PART NO.
Q1040	Transistor	2SD468 C
Q1041	Transistor	2SC1645 A/B
Q1042	Transistor	2SC3399
Q1043	Transistor	2SC3399
Q1045 Q1046	Transistor Transistor	2SC3399 2SC3399
Q1047	Transistor	2SC3399
Q1048	Transistor	2SC1815 Y/GR
Q1049	Transistor	2SC3402
Q1050	Transistor	2SC3399
Q1051 Q1052	Transistor Transistor	2SC3399 2SC3399
Q1052	Transistor	2SC3402
Q1054	Transistor	2SC3399
Q1055	Transistor	2SC1815 GR
Q1056	Transistor	2SC1571 G
Q1057 Q1058	Transistor FET	2SC3399 2SK30A Y
Q1059	Transistor	2SC3399
Q1060	Transistor	2SC1815 Y/GR
Q1061	Transistor	2SA 1345
Q1062	Transistor	2SA1015 Y/GR
Q1063	Transistor	2SC1815 Y/GR
Q1064 Q1065	Transistor FET	2SC3399 2SK192A GR
Q1066	FET	2SK192A GR
D1001	Diode	1K60
D1002	Diode	1K60
D1003	Diode	188133
D1004	Diode	1K60
D1005 D1006	Diode Diode	1K60 1SS133
D1007	Diode	1SS53
D1008	Diode	1SS133
D1009	Diode	1SS133
D1010 D1011	Diode	1SS53 1SS53
D1011	Diode Diode	1SS53
D1013	Diode	1SS53
D1014	Diode	1SS53
D1015	Diode	18853
D1016	Diode Diode	1SS53
D1017 D1018	Diode Diode	1SS53 MI204
D1019	Diode	18853
D1020	Diode	1SS53
D1021	Diode	1SS53
D1022 D1023	Diode Diode	1SS53 1SS53
D1023	Diode	1SS53
D1025	Diode	1SS53
D1026	Diode	1SS53
D1027	Diode	1SS53
D1028 D1029	Diode Diode	1SS53 1SS53
D1029	Diode	1SS53
D1031	Diode	188133
D1032	Diode	1SS133
D1033	Diode	1SS53
D1034 D1035	Diode Diode	1SS133 1SS133
D1036	Diode	1SS53
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REF. NO.	DESCRIPTION	PART NO.
D1037	Diode	1SS53
D1038	Diode	1SS133
D1039	Diode	1SS133
D1040	Diode Diode	1SS133 1SS53
D1041 D1042	Diode	1SS133
D1042	Diode	1SS133
D1045	Diode	1SS99
D1046	Diode	18899
D1047	Diode	1SS53
D1049	Diode	1SS53
D1050	Diode	18853
D1051 D1052	Varicap Diode	FC51M 1SS53
D1052	Varicap	FC51M
D1054	Diode	18853
D1055	Varicap	FC51M
D1056	Diode	18853
D1057	Varicap	FC51M
D1058	Diode	1SS53
D1059	Diode	1SS53
D1060	Varicap	FC51M 1S953
D1061 D1062	Diode Diode	1S953
D1062	Diode	1SS133
D1065	Diode	1SS133
D1066	Diode	188133
D1067	Diode	1SS133
D1068	Diode	1SS133
D1069	Diode	1SS133
D1071 D1072	Diode Diode	1SS133 1SS133
D1072	Diode	1\$\$133
D1074	Diode	1SS133
D1076	Diode	1SS133
D1077	Diode	1SS133
D1078	Diode	1SS133
D1082	Diode	1SS53
D1083 D1085	Diode Diode	1SS53 1SS133
D1086	Diode	1SS133
D1087	Diode	1N4002
D1088	Diode	1SS133
D1089	Zener	RD5.1E B2
D1090	Diode	1SS133
D1091	Diode Diode	1SS133 1SS133
D1092 D1093	Diode	188133
D1094	Diode	1SS133
D1095	Diode	1N4002
D1096	Diode	15S133
D1097	Diode	1SS133
D1098	Diode	1SS133
D1100	Diode	1SS133 1SS133
D1103 D1104	Diode Diode	188133 188133
D1105	Diode	1SS133
D1106	Diode	1SS133
D1107	Diode	1SS133
D1108	Diode	1SS53
D1111	Diode	1SS133
D1112	Diode	1SS133
D1113 D1114	Diode Diode	1SS133 1SS133
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REF. NO.	DESCRIPTION	PART NO.
D1115	Diode	1SS133
D1117	Diode	1SS133
D1118	Diode	1SS133
D1119	Diode	1SS133
D1120	Diode	1SS133
D1121	Diode	1SS133
D1122 D1123	Diode Diode	1SS133 1SS133
D1123	Diode	1SS133
D1125	Diode	1SS133
D1128	Diode	188133
D1129	Diode	1SS133
D1135	Diode	1SS133
D1140	Diode	1SS133
D1141	Diode	1SS133
D1143	Diode	1SS133 1SS133
D1144 D1147	Diode Diode	1SS133
D1150	Diode	1SS133
D1152	Diode	1SS133
D1153	Diode	188133
D1155	Diode	1SS133
D1156	Diode	1SS133
D1158	Diode	1SS133
D1160	Diode	1SS133 1SS133
D1161 D1162	Diode Diode	188133
D1162	Diode	1SS133
D1164	Zener	RD5.1E B2
D1165	Diode	188133
D1166	Diode	1SS133
FI1001	Crystal Filter	FL-30 (SSB)
FI1001	Crystal Filter	FL-45 (CW FSK)
FI1003	Crystal Filter	FL-30 (SSB) FL-45 (CW. FSK) FL-33 (AM)
	•	, ,
V4004	0	OD 70 (UOD)
X1001 X1002	Crystal Crystal	CR-73 (USB) CR-74 (LSB)
X1002 X1003	Crystal	CR-171 (FSK)
X1004	Crystal	CR-170 (CW-T)
X1005	Crystal	CR-172 (CW-R)
X1006	Crystal	3579.545kHz HC-43/u
X1007	Crystal	3.20000MHz HC-43/u
L1001	Coil	LS-175
L1002	Coil	LS-175
L1003	Coil	LS-175
L1004	Coil	LS-137
L1005 L1006	Coil Coil	LS-163 LS-90A
L1000	Coil	LS-90A LS-90A
L1008	Coil	LAL03NA 101K (100μ)
L1009	Coil	LS-175
L1010	Coil	LS-175
L1011	Coil	LAL03NA 101K (100μ)
L1012	Coil	LS-175
L1013 L1014	Coil Coil	LB4 R50K (0.5μ) LS-66A
L1014	Coil	LS-66A
L1016	Coil	LS-163
L1017	Coil	LS-163
	<u> </u>	

REF. NO.	DESCRIPTION	PART NO.
L1018	Coil	LB4 R50K (0.5μ)
L1019	Coil	LS-267
L1020	Coil	LS-267
L1021	Coil	LS-267
L1022	Coil	LS-267
L1023 L1024	Coil Coil	LS-267 LAL03NA 101K
L1024 L1025	Coil	FL5H 101K (100µ)
L1026	Coil	BT01RN1-A61
L1027	Coil	LAL03NA 101K (100μ)
L1028	Coil	BT01RN1-A61
L1029	Coil	FL5H 101K (100µ)
L1030	Coil	BT01RN1-A61
L1031	Coil	LW-15
L1032	Coil	FL5H 102K
L1033 L1034	Coil Coil	LAL04NA 102K LAL04NA 102K
L1034 L1035	Coil	BT01RN1-A61
L1036	Coil	LAL03NA 681K (680μ)
L1037	Coil	LAL03NA 681K (680µ)
L1038	Coil	LAL03NA 681K (680μ)
L1039	Coil	LAL03NA 681K (680μ)
L1040	Coil	LAL03NA 681K (680μ)
R1001	Resistor	1M R20
R1002	Resistor	100k R20
R1003	Resistor	330 R20
R1004	Resistor	100 R20
R1005	Resistor	22k R20
R1006	Resistor	1k R20
R1007	Resistor	100 R20 100k R20
R1008 R1009	Resistor Resistor	150k R20
R1010	Resistor	1k R20
R1011	Resistor	100 R20
R1012	Resistor	6.8k R25
R1013	Resistor	68k R20
R1014	Resistor	47k R20
R1015	Resistor	330 R20
R1016 R1017	Resistor Resistor	22k R20 10k R20
R1017	Resistor	100k R20
R1019	Resistor	100 R25
R1020	Resistor	47 R20
R1021	Resistor	10k R20
R1022	Resistor	10k R20
R1023	Resistor	100k R20
R1024	Resistor	47k R20
R1025	Resistor	100k R25
R1026 R1027	Resistor Resistor	3.3M ELR25 22k R20
R1027	Resistor	220 R20
R1029	Resistor	10k R25
R1030	Resistor	47 R20
R1031	Resistor	100k R20
R1032	Resistor	4.7k R20
R1033	Resistor	4.7k R20
R1034	Resistor	47k R20
R1035	Resistor Resistor	47k R20 47k R20
R1036 R1037	Resistor	100k R20
R1038	Resistor	330 R20
R1039	Resistor	1k R20
	 	

REF. NO. DESCRIPTION PART NO. REF. NO. DESCRIPTION PART NO. Resistor 2.2k R20 R1104 Resistor 2.2k R20 R1105 Resistor 2.2k R20 R1106 Resistor 2.2k R20 R1106 Resistor 2.2k R20 R1043 Resistor 4.7k R25 R1107 Resistor 100 R25 R1044 Resistor 100k R25 R1106 Resistor 100 R25 R1046 Resistor 100k R25 R1106 Resistor 100k R25 R1046 Resistor 100k R20 R1109 Resistor 100k R20 R1120 Resistor 100k R20 R1120 Resistor 100k R20 R1120 Resistor 10k R20 R1121 Resistor 10k R20 R1122 Resistor 10k R25 R1048 Resistor 10k R25 R1048 Resistor 10k R25 R1048 Resistor 10k R25 R1122 Resistor 100k R25 R1052 R105	[INVIIA	T			٦ .	LINAIN	7,		
R1041	REF. NO.	DESCRIPTION	PART	NO.		REF. NO.	DESCRIPTION	PART	NO.
R1042	R1040	Resistor	2.2k	R20		R1104	Resistor	2.2k	R20
R1043	R1041	Resistor	22	R20	1	R1105	Resistor	2.2k	R20
R1044 Resistor 100k R25 R1108 Resistor 680 R20 R1046 Resistor 100k R20 R1120 Resistor 680 R20 R1047 Resistor 22k R20 R1121 Resistor 2.2k R20 R1121 Resistor 2.2k R20 R1121 Resistor 2.2k R20 R1121 Resistor 2.2k R20 R1122 Resistor 2.2k R20 R1049 Resistor 470 R20 R1123 Resistor 100 R25 R1050 Resistor 220k R20 R1123 Resistor 100 R25 R1050 Resistor 10k R25 R1125 Resistor 10k R20 R1052 R1052 Resistor 15k R20 R1126 Resistor 47k R20 R1052 Resistor 15k R20 R1126 Resistor 47k R20 R1053 Resistor 10k R20 R1054 Resistor 8.2k R20 R1128 Resistor 4.7k R20 R1054 Resistor 8.2k R20 R1129 Resistor 4.7k R20 R1055 Resistor 180k R20 R1139 Resistor 10k R20 R1056 Resistor 180k R20 R1131 Resistor 10k R20 R1057 Resistor 180k R20 R1131 Resistor 22k R25 R1059 Resistor 147k R20 R1131 Resistor 22k R25 R1059 Resistor 4.7k R20 R1131 Resistor 22k R25 R1059 Resistor 4.7k R20 R1133 Resistor 22k R25 R1060 R1051 Resistor 10k R20 R1131 Resistor 22k R20 R1060 Resistor 10k R20 R1134 Resistor 22k R20 R1061 Resistor 10k R20 R1134 Resistor 22k R20 R1062 Resistor 10k R20 R1134 Resistor 22k R20 R1064 Trimmer R143A140SA 10k R1138 Resistor 22k R20 R1065 Resistor 12k R25 R1139 Resistor 22k R20 R1067 Resistor 12k R25 R1139 Resistor 12k R25 R1141 Resistor 12k R25 R1141 Resistor 12k R25 R1141 Resistor 12k R25 R1141 Resistor 12k R25 R1144 Resistor 12k R25 R1144 Resistor 12k R25 R1144 Resistor 12k R20 R1067 Resistor 12k R25 R1144 Resistor 12k R20 R1067 Resistor 12k R25 R1144 Resistor 12k R20 R1077 Resistor 12k R20 R1148 Resistor 12k R20 R1077 Resistor 1	R1042	Resistor	220	R20	1	R1106	Resistor		
R1045 Resistor 470 R20 R1109 Resistor 680 R20 R1046 Resistor 100k R20 R1121 Resistor 1.5k R20 R1047 Resistor 2.2k R20 R1121 Resistor 1.2k R20 R1048 Resistor 470 R20 R1122 Resistor 100 R25 R1049 Resistor 100 R25 R1049 Resistor 100 R25 R1050 Resistor 220k R20 R1050 Resistor 220k R20 R1050 Resistor 2.2k R20 R1050 Resistor 15k R20 R1124 Resistor 2.2k R20 R1053 Resistor 15k R20 R1126 Resistor 4.7k R20 R1053 Resistor 15k R20 R1126 Resistor 10k R20 R1055 Resistor 8.2k R20 R1128 Resistor 10k R20 R1055 Resistor 8.2k R20 R1128 Resistor 4.7k R20 R1055 Resistor 180k R20 R1129 Resistor 4.7k R20 R1056 Resistor 180k R20 R1139 Resistor 4.7k R20 R1056 Resistor 10k R20 R1056 Resistor 10k R20 R1056 Resistor 10k R20 R1056 Resistor 10k R20 R1056 Resistor 4.7k R20 R1058 Resistor 4.7k R25 R1068 Resistor 4.7k R25 R1068 Resistor 4.7k R25 R1068 Resistor 4.7k R25 R1068 Resistor 4.7k R25 R1067 Resistor 4.7k R20 R1057 Resistor 4.7k R20 R1058 R10	R1043	Resistor	4.7k	R25		R1107	Resistor		
R1046 Resistor 100k R20						R1108	Resistor		
R1047 Resistor 10k R25 R1121 Resistor 2.2k R20 R1048 Resistor 10k R25 R1122 Resistor 100 R25 R1049 Resistor 470 R20 R1122 Resistor 100 R25 R1050 Resistor 220k R20 R1124 Resistor 2.2k R20 R1051 Resistor 10k R25 R1052 Resistor 15k R20 R1126 Resistor 4.7k R20 R1052 Resistor 15k R20 R1126 Resistor 10k R20 R1053 Resistor 8.2k R20 R1127 Resistor 4.7k R20 R1055 Resistor 8.2k R20 R1128 Resistor 4.7k R20 R1056 Resistor 180k R20 R1129 Resistor 4.7k R20 R1056 Resistor 180k R20 R1130 Resistor 2.2k R25 R1058 Resistor 10k R20 R1131 Resistor 2.2k R25 R1058 Resistor 4.7k R20 R1132 Resistor 2.2k R20 R1060 Resistor 4.7k R20 R1132 Resistor 2.2k R20 R1060 Resistor 4.7k R20 R1134 Resistor 2.2k R20 R1061 Resistor 2.2k R20 R1136 Resistor 2.2k R20 R1061 Resistor 2.2k R20 R1136 Resistor 2.2k R20 R1063 Resistor 2.2k R20 R1136 Resistor 2.2k R20 R1063 Resistor 2.2k R20 R1136 Resistor 2.2k R20 R1064 Resistor 2.2k R20 R1136 Resistor 2.2k R20 R1066 Resistor 4.7k R25 R1137 Resistor 2.2k R20 R1066 Resistor 4.7k R25 R1139 Resistor 3.3k R20 R1066 Resistor 1.2k R25 R1140 Resistor 3.3k R20 R1066 Resistor 1.2k R25 R1140 Resistor 3.3k R20 R1066 Resistor 1.2k R25 R1140 Resistor 1.2k R25 R1140 Resistor 1.2k R25 R1140 Resistor 1.2k R25 R1141 Resistor 1.2k R25 R1140 Resistor 1.2k R25 R1141 Resistor 1.2k R25 R1141 Resistor 1.2k R25 R1141 Resistor 1.2k R25 R1141 Resistor 1.2k R20 R1071 Resistor 2.2k R20 R1147 Resistor 1.2k R20 R1071 Resistor 2.2k R20 R1147 Resistor 1.2k R20 R1071 Resistor 4.7k R20 R1071 Resistor 4.7k R20 R1147 Resistor 4.7k R20 R1071 Resistor 4.7k R20 R1147 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1150 Resistor 4.7k R20 R1076 Resist	R1045	Resistor	470	R20		R1109	Resistor		R20
R1048	R1046	Resistor	100k			R1120	Resistor		
R1049	R1047	Resistor					Resistor		
R1050 Resistor 220k R20 R1124 Resistor 47k R20 R1051 Resistor 15k R20 R1126 Resistor 47k R20 R1052 Resistor 15k R20 R1126 Resistor 47k R20 R1053 Resistor 15k R20 R1127 Resistor 47k R20 R1054 Resistor 8.2k R20 R1127 Resistor 47k R20 R1055 Resistor 8.2k R20 R1129 Resistor 4.7k R20 R1056 Resistor 180k R20 R1130 Resistor 10k R20 R1056 Resistor 180k R20 R1131 Resistor 22k R25 R1058 Resistor 10k R20 R1131 Resistor 22k R25 R1059 Resistor 4.7k R20 R1132 Resistor 22k R20 R1069 Resistor 4.7k R20 R1133 Resistor 22k R20 R1061 Resistor 10k R20 R1134 Resistor 22k R20 R1061 Resistor 33k R20 R1135 Resistor 22k R20 R1062 Resistor 33k R20 R1136 Trimmer RHA3A140SA 10k R1138 Resistor 220 R25 R1065 Resistor 6.8k R20 R1138 Resistor 220 R25 R1066 Resistor 12k R25 R1067 Resistor 12k R25 R1141 Resistor 3.3k R20 R1067 Resistor 12k R25 R1141 Resistor 1.5k R20 R1070 Resistor 12k R25 R1141 Resistor 1.5k R20 R1070 Resistor 12k R25 R1144 Resistor 1.5k R20 R1070 Resistor 12k R25 R1144 Resistor 1.5k R20 R1070 Resistor 2.2k R25 R1146 Resistor 1.5k R20 R1073 Resistor 2.2k R25 R1146 Resistor 4.7k R26 R1073 Resistor 4.7k R20 R1073 Resistor 4.7k R20 R1073 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R		Resistor					1		
R1051 Resistor 10k R25 R1125 Resistor 47k R20 R1052 Resistor 15k R20 R1127 Resistor 10k R20 R1053 Resistor 15k R20 R1127 Resistor 10k R20 R1055 Resistor 8.2k R20 R1128 Resistor 47 R20 R1055 Resistor 180k R20 R1129 Resistor 10k R20 R1057 Resistor 180k R20 R1130 Resistor 10k R20 R1067 Resistor 180k R20 R1131 Resistor 22k R25 R1058 Resistor 4.7k R20 R1133 Resistor 2.2k R25 R1058 Resistor 4.7k R20 R1133 Resistor 2.2k R20 R1060 Resistor 4.7k R20 R1134 Resistor 220 R20 R1061 Resistor 2.2k R20 R1061 Resistor 2.2k R20 R1063 Resistor 2.2k R20 R1063 Resistor 33k R20 R1136 Trimmer RHB0CJ4014 22k R1063 Resistor 33k R20 R1137 Resistor 100 R20 R20 R1064 Trimmer RHA3A140SA 10k R1138 Resistor 220 R25 R1066 Resistor 4.7k R25 R1139 Resistor 2.2k R20 R1066 Resistor 6.8k R20 R1140 Resistor 3.3k R20 R1066 Resistor 12k R25 R1140 Resistor 4.7k R20 R1069 Resistor 12k R25 R1140 Resistor 1.5k R20 R1069 Resistor 12k R25 R1142 Resistor 1.5k R20 R1070 Resistor 2.2k R20 R1143 Resistor 1.5k R20 R1071 Resistor 2.2k R20 R1072 Resistor 2.2k R20 R1143 Resistor 1.5k R20 R1072 Resistor 2.2k R20 R1143 Resistor 1.5k R20 R1072 Resistor 2.2k R25 R1142 Resistor 1.5k R20 R1072 Resistor 2.2k R25 R1146 Resistor 1.5k R20 R1072 Resistor 2.2k R20 R1145 Resistor 1.5k R20 R1075 Resistor 2.2k R20 R1146 Resistor 1.5k R20 R1075 Resistor 2.2k R20 R1147 Resistor 1.5k R20 R1075 Resistor 2.2k R25 R1148 Resistor 1.5k R20 R1075 Resistor 2.2k R25 R1150 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1080 Resistor 4.7k R20	R1049	Resistor							
R1052 Resistor 15k R20 R1126 Resistor 4.7k R20 R1053 Resistor 8.2k R20 R1127 Resistor 4.7k R20 R1056 Resistor 8.2k R20 R1128 Resistor 4.7k R20 R1056 Resistor 180k R20 R1139 Resistor 10k R20 R1057 Resistor 180k R20 R1131 Resistor 22k R25 R1058 Resistor 4.7k R20 R1059 Resistor 4.7k R20 R1131 Resistor 22k R25 R1058 Resistor 4.7k R20 R1132 Resistor 100 R20 R1060 Resistor 4.7k R20 R1134 Resistor 100 R20 R1061 Resistor 33k R20 R1135 Resistor 100 R20 R1062 Resistor 33k R20 R1137 Resistor 100 R20 R1064 Trimmer RHA3A140SA 10k R1138 Resistor 4.7k R20 R1066 Resistor 6.8k R20 R1139 Resistor 4.7k R20 R1067 Resistor 12k R25 R1068 Resistor 12k R25 R1140 Resistor 4.7k R20 R1067 Resistor 12k R25 R1141 Resistor 4.7k R20 R1067 Resistor 12k R25 R1141 Resistor 4.7k R20 R1067 Resistor 12k R25 R1141 Resistor 4.7k R20 R1070 Resistor 4.7k R25 R1141 Resistor 4.7k R20 R1070 Resistor 4.7k R25 R1141 Resistor 4.7k R20 R1070 Resistor 4.7k R25 R1141 Resistor 4.7k R20 R1071 Resistor 2.2k R20 R1072 Resistor 2.2k R25 R1144 Resistor 1.5k R20 R1073 Resistor 2.2k R25 R1146 Resistor 1.5k R20 R1073 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1147 Resistor 4.7k R20 R1076 Resistor 4.7k R20 R1150 Resistor 4.7k R20 R1078 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1080		Resistor			l		1		
R1053		1			l		1		
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R1055 Resistor Resistor Resistor Resistor 180k R20 R1130 Resistor 10k R20 R1057 Resistor 180k R20 R1131 Resistor 22k R25 R1058 Resistor 4.7k R20 R1131 Resistor 2.2k R25 R1059 Resistor 4.7k R20 R1133 Resistor 2.2k R20 R1061 Resistor 4.7k R20 R1133 Resistor 220 R20 R1061 Resistor 10k R20 R1135 Resistor 22k R20 R1061 Resistor 10k R20 R1135 Resistor 22k R20 R1062 Resistor 2.2k R20 R1135 Resistor 22k R20 R1062 Resistor 33k R20 R1136 Trimmer RHB0CJ401A 22k R1063 Resistor 33k R20 R1137 Resistor 100 R20 R1064 Trimmer RHA3A140SA 10k R1138 Resistor 220 R25 R1065 Resistor 4.7k R25 R1139 Resistor 4.7k R20 R1066 Resistor 1k R25 R1140 Resistor 3.3k R20 R1068 Resistor 12k R25 R1141 Resistor 3.3k R20 R1068 Resistor 12k R25 R1141 Resistor 3.3k R20 R1069 Resistor 12k R25 R1142 Resistor 1.5k R20 R1071 Resistor 2.2k R20 R1143 Resistor 1.5k R20 R1071 Resistor 2.2k R25 R1144 Resistor 1.0k R20 R1072 Resistor 2.2k R25 R1146 Resistor 100 R20 R1072 Resistor 2.2k R25 R1146 Resistor 100 R20 R1074 Resistor 2.2k R25 R1146 Resistor 4.7k R20 R1075 Resistor 2.2k R25 R1146 Resistor 4.7k R20 R1077 Resistor 2.2k R25 R1148 Resistor 4.7k R20 R1077 Resistor 2.2k R25 R1150 Resistor 4.7k R20 R1077 Resistor 2.2k R25 R1150 Resistor 4.7k R20 R1077 Resistor 3.3k R25 R1150 Resistor 4.7k R20 R1078 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1151 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1152 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1152 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1155 Resistor 4.7k R20 R1080 Resistor 4.7k R20 R1156 Resistor 4.7k R20 R108									
R1056		í					1		
R1057		1			l		1		
R1058					1		1		
R1059									
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R1061 Resistor 10k R20 R1135 Resistor 22k R20 R1062 Resistor 2.2k R20 R1136 Trimmer RHB0CJ401A 22k R1063 Resistor 33k R20 R1137 Resistor 100 R20 R1064 Trimmer RHA3A140SA 10k R1138 Resistor 220 R25 R1065 Resistor 47k R25 R1139 Resistor 220 R25 R1066 Resistor 6.8k R20 R1140 Resistor 3.3k R20 R1067 Resistor 1k R25 R1140 Resistor 3.3k R20 R1068 Resistor 12k R25 R1141 Resistor 4.7k R25 R1068 Resistor 12k R25 R1142 Resistor 1.5k R20 R1069 Resistor 14 R20 R1143 Resistor 1.5k R20 R1070 Resistor 2.2k R20 R1144 Resistor 100 R20 R1071 Resistor 2.2k R25 R1144 Resistor 100 R20 R1072 Resistor 2.2k R25 R1146 Resistor 100k R20 R1073 Resistor 220 R20 R1147 Resistor 4.7k R20 R1074 Resistor 220 R20 R1148 Resistor 4.7k R20 R1075 Resistor 2.2k R25 R1148 Resistor 4.7k R20 R1076 Resistor 2.2k R25 R1150 Resistor 470 R20 R1077 Resistor 220 R20 R1150 Resistor 47k R20 R1077 Resistor 220 R20 R1151 Resistor 47k R20 R1078 Resistor 33k R25 R1150 Resistor 220 R20 R1081 Resistor 47k R20 R1153 Resistor 220 R20 R1081 Resistor 47k R20 R1153 Resistor 220 R20 R1081 Resistor 47k R20 R1154 Resistor 220 R20 R1081 Resistor 47k R20 R1155 Resistor 100 R20 R1081 Resistor 47k R20 R1156 Resistor 100 R20 R1084 Resistor 10k R20 R1156 Resistor 100k R20 R1086 Resistor 33k R20 R1159 Resistor 330k R20 R1086 Resistor 33k R20 R1159 Resistor 330k R20 R1086 Resistor 22k R20 R1150 Resistor 330k R20 R1086 Resistor 22k R20 R1150 Resistor 330k R20 R1086 Resistor 22k R20 R1156 Resistor 330k R20 R1086 Resistor 22k R20 R1150 R20 R20 R20 R20 R20 R20 R20 R20 R20 R							1		
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R1084 Resistor 10k R20 R1158 Resistor 150k R20 R1085 Resistor 33k R20 R1159 Resistor 330k R20 R1086 Resistor 2.2k R20 R1160 Resistor 10k R25	R1082	Resistor	100	R20		R1156	Resistor	1M	R20
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R1089 Resistor 100 R20 R1163 Resistor 470 R20									
R1090 Resistor 330 R20 R1164 Resistor 1k R20									
R1091 Resistor 1.5k R20 R1165 Resistor 10k R20									
R1092 Resistor 2.2k R20 R1166 Resistor 2.2k R20									
R1093 Resistor 10k R20 R1167 Resistor 100k R20									
R1094 Resistor 10k R20 R1168 Trimmer RHB0C1431A 10k									
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REF. NO.	DESCRIPTION	PART NO.
R1178	Resistor	3.3k R20
R1179	Resistor	47k R20
R1180	Resistor	100k R20
R1181	Trimmer	RHA3A140SA 10k
R1182	Resistor	3.3k R20
R1183	Resistor	100 R20
R1184	Resistor	47k R20
R1185	Resistor	2.2k R20
R1186	Resistor	1.5k R20 1k R20
R1187 R1188	Resistor Resistor	470k R20
R1189	Resistor	1k R20
R1190	Resistor	47k R20
R1191	Resistor	22k R20
R1192	Resistor	100 R20
R1193	Resistor	47 R20
R1195	Resistor	220 R20
R1196	Resistor	100k R20
R1198	Resistor	220 R20
R1199	Resistor	100k R20
R1200	Resistor	100k R20
R1202	Resistor	220 R20
R1203	Resistor	100k R20
R1205 R1206	Resistor Resistor	220 R20 100k R25
R1208	Resistor	220 R20
R1209	Resistor	100k R20
R1210	Resistor	10k R20
R1211	Resistor	68k R20
R1212	Resistor	1M R20
R1213	Resistor	4.7k R20
R1214	Trimmer	RHL0C141BA 10k
R1215	Resistor	4.7k R20
R1216	Trimmer	RHL0C141BA 10k
R1217	Trimmer	RHL0C141BA 10k
R1218 R1219	Resistor	47k R20 100k R20
R1219	Resistor Resistor	220 R25
R1221	Resistor	2.2k R20
R1222	Resistor	220 R20
R1223	Resistor	2.2M R20
R1224	Resistor	1.8M R20
R1225	Resistor	3.3M ELR25
R1226	Resistor	220 R25
R1227	Resistor	470k R20
R1229	Resistor	470k R25
R1230	Resistor	3.3M ELR25 220 R20
R1231 R1232	Resistor Resistor	470 R20
R1232	Resistor	10k R20
R1234	Resistor	10k R20
R1235	Resistor	10k R20
R1236	Resistor	10k R20
R1237	Resistor	10k R20
R1238	Resistor	2.2k R20
R1239	Resistor	10k R25
R1240	Resistor	18k R25
R1241	Resistor	220 R20
R1242 R1243	Resistor Resistor	33k R20 33k R20
R1243	Trimmer	RHB0C151 × A 100k
R1245	Trimmer	RHB0C151 × A 100k
R1247	Trimmer	RHA3A140SA 10k
R1248	Resistor	47k R20

REF. NO.	DESCRIPTION	PART NO.
REF. NO.	DESCRIPTION	PART NO.
R1250	Resistor	100k R20
R1251	Resistor	10k R20
R1252 R1253	Resistor Resistor	220k R20 10k R20
R1254	Resistor	10k R25
R1256	Trimmer	RHL0CJ31HA 2.2k
R1257	Resistor	10k R25
R1258	Resistor	47k R20
R1259	Resistor	220 R20 100k R20
R1260 R1261	Resistor Resistor	33k R25
R1262	Resistor	82k R20
R1263	Resistor	220k R20
R1267	Resistor	2.2 R25
R1268	Resistor	4.7 R25
R1270 R1271	Resistor Resistor	22k R25 100 R20
R1271	Resistor	150 R25
R1273	Resistor	47k R20
R1274	Resistor	10k R20
R1275	Resistor	15k R20
R1276	Resistor	47k R25
R1277 R1278	Resistor Resistor	4.7k R20 4.7k R20
R1279	Resistor	220k R20
R1280	Resistor	4.7 ELR25
R1282	Resistor	22k R20
R1283	Resistor	10k R20
R1284	Resistor	82k R20
R1285 R1286	Resistor Resistor	10k R20 22k R20
R1287	Resistor	10k R20
R1288	Resistor	1 R20
R1289	Resistor	47 R20
R1290	Resistor	10k R20
R1291	Resistor	22 R20
R1292 R1293	Resistor Resistor	220 R20 220 R20
R1294	Resistor	22 R20
R1295	Resistor	1k R20
R1296	Resistor	4.7k R20
R1297	Resistor	1k R20
R1298	Resistor Resistor	220k R20 100k R20
R1299 R1300	Resistor	100k R20
R1301	Resistor	47k R20
R1302	Resistor	47k R20
R1304	Resistor	470k R20
R1305	Resistor	4.7M ERC-14GJ
R1306 R1307	Resistor Trimmer	470k R20 RHM0A1505A 100k
R1308	Resistor	150k CRB25FX
R1309	Resistor	1k R20
R1310	Resistor	47k R20
R1311	Resistor	220k R25
R1312	Resistor	22 R20 220k R25
R1313 R1314	Resistor Resistor	220k R25 22k R25
R1317	Resistor	15k R20
R1318	Resistor	47k R20
R1319	Resistor	4.7k R20
R1320	Resistor	220 R25
R1321 R1322	Resistor Resistor	2.2k R20 220 R20
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REF. NO. DESCRIPTION PART NO. R1323 Resistor 3.3k R20 R1325 Resistor 22k R25 R1326 Resistor 4.7k R20 R1327 Resistor 15k R20 R1328 Resistor 47k R20 R1328 Resistor 47k R20 R1329 Resistor 22k R20 R1331 Resistor 22k R20 R1331 Resistor 22k R20 R1331 Resistor 220 R25 R1333 Resistor 220 R25 R1333 Resistor 220 R25 R1333 Resistor 22k R20 R1335 Resistor 47k R20 R1335 Resistor 47k R20 R1336 Resistor 12k R25 R1337 Resistor 12k R25 R1338 Resistor 10k R20 R1339 Resistor 10k R20 R1339 Resistor 4.7k R25 R1340 Resistor 2.2k R20 R1341 Resistor 2.2k R20 R1341 Resistor 2.2k R20 R1342 Resistor 2.2k R20 R1343 Resistor 4.7k R20 R1345 Resistor 4.7k R20 R1345 Resistor 4.7k R20 R1346 Resistor 4.7k R20 R1347 Resistor 4.7k R20 R1348 Resistor 10k R20 R1347 Resistor 4.7k R25 R1348 Resistor 10k R20 R1348 Resistor 10k R20 R1350 Resistor 100k R20 R1351 Array RMX-6 47k R20 R1351 Array RMX-6 47k R20 R1351 Array RMX-6 47k R20 R1355 Resistor 100k R20 R1356 Resistor 100k R20 R1356 Resistor 100k R20 R1356 Resistor 10k R20 R1356 Resistor 10k R20 R1356 Resistor 10k R20 R1356 Resistor 10k R20 R1366 Resistor 10k R20 R1366 Resistor 10k R20 R1367 Resistor 10k R20 R1368 Resistor 2.2k R20 R1368 Resistor 47k R20 R1366 Resistor 10k R20 R1366 Resistor 10k R20 R1367 Resistor 10k R20 R1366 Resistor 10k R20 R1370 Resistor 10k R20 R1371 Resistor 10k				
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R1325	R1323	Resistor	4.7k	R20
R1326	R1324	Resistor	3.3k	R20
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R1374 Resistor 2.2 R25 R1375 Resistor 47 R20 C1001 Barrier Lay 0.1 16V C1002 Ceramic 0.0047 50V C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V				
R1375 Resistor 47 R20 C1001 Barrier Lay 0.1 16V C1002 Ceramic 0.0047 50V C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V	B .	Resistor		
C1001 Barrier Lay 0.1 16V C1002 Ceramic 0.0047 50V C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V	R1374	Resistor		R25
C1002 Ceramic 0.0047 50V C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V	R1375	Resistor	47	R20
C1002 Ceramic 0.0047 50V C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V	C1001	Barrier I av	0.1	16V
C1003 Ceramic 0.0047 50V C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V		-	-	
C1004 Tantalum 3.3 16V C1005 Ceramic 0.0047 50V C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V				
C1006 Ceramic 0.0047 50V C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V				
C1007 Ceramic 0.0047 50V C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V	C1005	Ceramic		50V
C1008 Ceramic 0.0047 50V C1009 Ceramic 0.0047 50V				• • •
C1009 Ceramic 0.0047 50V				
I GIUIU GYINGRICAI - UP125X 4/2M				
C1011 Ceramic 47P 50V		,	+	
OTOTT OCTAINE 477 30V	01011	Geranno	711	

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REF. NO.	DESCRIPTION	PART NO.		
C1012	Barrier Lay	0.047 25V		
C1013	Electrolytic	10 16V MS7		
C1014	Ceramic	0.0047 50V		
C1015	Electrolytic	47 10V		
C1016	Barrier Lay	0.1 16V		
C1017	Ceramic	0.0047 50V		
C1018	Tantalum	2.2 16V		
C1019	Barrier Lay	0.1 16V		
C1020	Ceramic	0.0047 50V		
C1021	Electrolytic	47 10V		
C1022	Ceramic	330P 50V		
C1023	Ceramic	0.0047 50V		
C1024	Cylindrical	UP125X 472M 0.0047		
C1025	Ceramic	330P 50V		
C1026	Ceramic	0.001 50V		
C1027	Barrier Lay	0.1 16V		
C1028	Electrolytic	47 10V		
C1029	Electrolytic	22 10V		
C1030	Electrolytic	4.7 25V		
C1031	Mylar	0.0047 50V		
C1032	Electrolytic	2.2 50V		
C1033	Ceramic	DD109SL471J50V02		
		470P		
C1034	Barrier Lay	0.047 25V		
C1035	Ceramic	DD109SL471J50V02		
		470P		
C1036	Electrolytic	2.2 50V		
C1037	Mylar	0.01 50V		
C1038	Mylar	0.01 50V		
C1039	Electrolytic	10 16V BP		
C1040	Electrolytic	4.7 25V 0.47 50V BP		
C1041	Electrolytic	0.47 50V BP 100 10V		
C1042	Electrolytic	0.0047 50V		
C1043	Ceramic	47 10V		
C1044	Electrolytic Ceramic	0.0047 50V		
C1045 C1046	Cylindrical	UP125SL 010M 1P		
C1040	Ceramic	2P 50V		
C1048	Ceramic	0.0047 50V		
C1049	Ceramic	0.001 50V		
C1050	Mylar	0.033 50V		
C1051	Ceramic	0.0047 50V		
C1052	Ceramic	0.0047 50V		
C1053	Ceramic	0.0047 50V		
C1054	Ceramic	0.0047 50V		
C1055	Electrolytic	22 10V		
C1056	Ceramic	0.0047 50V		
C1057	Ceramic	100P 50V		
C1058	Ceramic	0.0047 50V		
C1059	Ceramic	0.0047 50V		
C1060	Ceramic	0.0047 50V		
C1061	Ceramic	0.0047 50V		
C1062	Mylar	0.047 50V		
C1063	Ceramic	0.0047 50V		
C1064	Ceramic	0.0047 50V		
C1065	Electrolytic	1 50V		
C1066	Ceramic	0.0047 50V		
C1067	Ceramic	0.0047 50V		
C1068	Ceramic	0.0047 50V		
C1069	Ceramic	0.0047 50V		
C1070	Ceramic	0.0047 50V		
C1071	Ceramic	0.0047 50V		
C1072	Ceramic	0.0047 50V 0.0047 50V		
C1073	Ceramic	U.UU47 5UV		

MAIN	-	DADTIO	IMAIN C		PART	NO	
REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DESCRIPTION			
C1074	Ceramic	0.0047 50V	C1137	Electrolytic	22	10V	0.01×6
C1075	Ceramic	0.0047 50V	C1138	Array	0.0047	50V	0.01 ^ 0
C1076	Ceramic	0.0047 50V	C1139	Ceramic Ceramic	100P	50V	
C1077	Ceramic	0.0047 50V	C1141	Ceramic	150P	50V	
C1078	Ceramic	0.0047 50V 0.0047 50V	C1142 C1143	Ceramic	0.001	50V	
C1079	Ceramic		C1143	Ceramic	47P	50V	
C1081	Ceramic	0.001 50V 0.01 25V	C1144	Ceramic	0.0047	50V	
C1082 C1083	Barrier Lay Ceramic	0.01 25V 0.0047 50V	C1146	Ceramic	0.022	50V	
C1083	Ceramic	0.0047 50V 0.0047 50V	C1147	Electrolytic	22	10V	
C1085	Electrolytic	47 10V	C1148	Electrolytic	47	10V	
C1085	Mylar	0.01 50V	C1149	Barrier Lay	0.047	25V	
C1087	Ceramic	0.0047 50V	C1150	Ceramic	0.0047	50V	
C1088	Ceramic	0.0047 50V	C1151	Electrolytic	47	10V	
C1089	Ceramic	0.0047 50V	C1152	Ceramic	0.0047	50V	
C1090	Ceramic	22P 50V	C1153	Electrolytic	47	16V	
C1091	Ceramic	0.0047 50V	C1154	Electrolytic	10	25V	
C1092	Ceramic	0.0047 50V	C1155	Mylar	0.001	50V	
C1093	Ceramic	0.0047 50V	C1156	Mylar	0.047	50V	
C1094	Electrolytic	47 10V	C1157	Mylar	0.047	50V	
C1095	Ceramic	0.001 50V	C1158	Mylar	0.1	50V	
C1096	Electrolytic	2.2 50V	C1159	Electrolytic	470	16V	
C1097	Electrolytic	0.47 50V BP	C1160	Electrolytic	47	16V	
C1098	Electrolytic	47 10V	C1161	Electrolytic	470	16V	
C1099	Electrolytic	10 25V	C1162	Electrolytic	470	16V	
C1100	Electrolytic	22 10V	C1163	Electrolytic	100	10V	
C1101	Electrolytic	2.2 25V	C1164	Electrolytic	47	16V	
C1102	Barrier Lay	0.1 16V	C1165	Mylar	0.033	50V	
C1103	Ceramic	0.0047 50V	C1166	Mylar	0.047	50V	
C1104	Ceramic	0.0047 50V	C1167	Ceramic	0.0047	50V	
C1105	Electrolytic	47 10V	C1168	Ceramic	0.0047	50V	
C1106	Barrier Lay	0.1 16V	C1169	Mylar	0.0022	50V	
C1107	Barrier Lay	0.047 25V	C1170	Mylar	0.01	50V	
C1108	Ceramic	47P 50V	C1171	Tantalum	1	35V	
C1109	Electrolytic	2.2 50V BP	C1172	Tantalum	10	10V	
C1110	Ceramic	0.0047 50V	C1173	Mylar	0.01 0.033	50V 50V	
C1111	Tantalum	10 10V	C1174	Mylar	1	35V	
C1112	Ceramic	200P 50V XL	C1175	Tantalum	0.01	50V	
C1113	Ceramic	200P 50V XL	C1176	Mylar	0.01	50V	
C1114	Ceramic	100P 50V CH 470P 50V	C1177 C1178	Mylar Mylar	0.022	50V	
C1115	Ceramic		C1176	Ceramic	0.022	50V	
C1116	Ceramic		C1182	Ceramic	0.0047	50V	
C1117 C1118	Ceramic	0.001 50V 2P 50V	C1182	Ceramic	0.0047	50V	
C1118 C1119	Ceramic Ceramic	DD109SL471J50V02	C1184	Ceramic	0.0047	50V	
Cilia	Ocialillo	470P	C1185	Ceramic	0.0047	50V	
C1120	Ceramic	51P 50V	C1186	Ceramic	0.0047	50V	
C1121	Ceramic	DD109SL471J50V02	C1187	Electrolytic	47	10V	
01121	Coranno	470P	C1188	Mylar	0.022	50V	
C1122	Ceramic	0.0047 50V	C1189	Mylar	0.033	50V	
C1123	Ceramic	0.0047 50V	C1190	Electrolytic	2.2	50V	
C1124	Cylindrical	UP125X 472M 0.0047	C1191	Ceramic	0.0047	50V	
C1125	Barrier Lay	0.047 25V	C1192	Barrier Lay	0.1	16V	
C1126	Ceramic	0.0047 50V	C1193	Ceramic	0.0047	50V	
C1127	Ceramic	0.0047 50V	C1194	Ceramic	0.0047	50V	
C1128	Ceramic	0.0047 50V	C1195	Ceramic	10P	50V	
C1129	Ceramic	0.0047 50V	C1196	Barrier Lay	0.047	25V	
C1130	Ceramic	0.001 50V	C1197	Ceramic	10P	50V	
C1131	Ceramic	0.0047 ^{50V}	C1198	Electrolytic	0.47	50V	BP
C1132	Electrolytic	10 25V	C1199	Ceramic	0.0047	50V	
C1133	Ceramic	0.0047 50V	C1200	Electrolytic	10	25V	
C1134	Tantalum	3.3 16V	C1201	Electrolytic	1	50V	
04405	Ceramic	0.0047 50V	C1202	Electrolytic	0.47	50V	
C1135 C1136	Electrolytic	47 10V	C1203	Mylar	0.047	50V	

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REF. NO.	DESCRIPTION	PART NO.
C1204	Ceramic	0.0047 50V
C1205	Ceramic	0.0047 50V
C1206	Arrav	B8ZC0111-32N
	, ,	0.0082×7
C1207	Tantalum	3.3 16V
C1208	Ceramic	0.001 50V
C1209	Ceramic	0.0047 50V
C1210	Ceramic	0.001 50V
C1211	Ceramic	0.0047 50V
C1212	Electrolytic	10 25V
C1213	Electrolytic	4.7 25V
C1214	Ceramic	0.0047 50V
C1215	Ceramic	0.0047 50V
C1216	Electrolytic	10 25V
C1217	Electrolytic	33 16V
C1218	Electrolytic	1 16V MS7
C1219	Electrolytic	47 10V
C1220	Ceramic	0.0047 50V
C1221	Electrolytic	2.2 50V
C1222	Ceramic	DD108SL391J50V02
		390P
C1223	Ceramic	22P 50V
C1224	Ceramic	DD108SL391J50V02
		390P
C1225	Ceramic	33P 50V
C1226	Ceramic	47P 50V
C1227	Ceramic	22P 50V CH 0.47 50V RC2
C1228 C1229	Electrolytic	0.47 50V RC2 0.33 50V RC2
C1229	Electrolytic Ceramic	0.0047 50V
1 01230	Ceramic	0.0047 304
RL1001	Relay	FBR211BD-009M
J1001	Connector	TL-25P-04-V1
J1002	Connector	TMP-J01X-A2
J1003	Connector	TL-25P-06-V1
J1004	Connector	TL-25P-08-V1
J1005	Connector	TL-25P-05-V1
J1006	Connector	TL-25P-05-V1
J1007	Connector	TL-25P-07-V1
J1008	Connector	TL-25P-05-V1
J1009	Connector	TL-25P-07-V1
J1010	Connector	TL-25P-06-V1
J1011	Connector	TL-25P-04-V1
J1012 J1013	Connector Connector	TL-25P-05-V1 TL-25P-09-V1
J1013 J1014	Connector	IMSA-9201B-2-04-T
J1014 J1015	Connector	IMSA-9201B-2-04-1
J1015 J1016	Connector	TLB-P04H-B1
0.010	20100.01	
D1004	Connecte	TMD DO4V A4
P1001 P1002	Connector	TMP-P01X-A1 IMSA-9201-HT
P1002	Connector Connector	IMSA-9201-HT
11003	Commedia	IMOA-ULU I-I I I
61004	Switch	CCC21124A
S1001 S1002	Switch Switch	SSSS31124A SSSS31124A
S1002 S1003	Switch	SSGK16012A
S1003 S1004	Switch	SSSS31124A
S1004 S1005	Switch	SSSS31124A
5,005	SWILON	55666 124A

## REF. NO. DESCRIPTION	DEE NO	DECODIBIION	DART NO
W1001 Wire 62/99/270/W13A/C31 W1003 51/09/175/W13A/C22 W1006 Wire 51/04/175/W13A/C22 W1006 Wire 51/04/175/W13A/C22 W1007 Wire 61/99/160/W13A/W13A W1008 00 A W1009 Wire 51/05/220/W13A/W13A W1010 Jumper IPS-1041-2 W1011 Jumper IPS-1041-4 W1012 Jumper IPS-1041-4 W1013 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1016 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1021 Jumper IPS-1041-4 W1022 Jumper IPS-1041-4 W1025 Jumper IPS-1041-4 W1026 Jumper <td< th=""><th>REF. NO.</th><th>DESCRIPTION</th><th>PART NO.</th></td<>	REF. NO.	DESCRIPTION	PART NO.
W1002	EP1001	P.C.B	B-1103B (30465)
W1002			
W1002	W1001	Wire	Γ62/99/270/W13Δ/C31
W1003 Wire S1/09/175/W13A/C22 08		VVIIC	
W1005 Wire 51/04/175/W13A/C22 W1006 Wire 61/99/160/W13A/W13A W1009 Wire 51/05/220/W13A/W13A W1010 Wire 51/05/220/W13A/W13A W1010 Wire 151/05/220/W13A/W13A W1010 Jumper IPS-1041-2 W1011 Jumper IPS-1041-4 W1013 Jumper IPS-1041-4 W1014 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1021 Jumper IPS-1041-4 W1022 Jumper IPS-1041-2 W1023 Jumper IPS-1041-2 W1026 Jumper IPS-1041-2 W1027 Jumper IPS-1041-2 W1030 Jumper IPS-1041-2 W1031			□51/09/175/W13A/C22
W1006	W1004		L 08 A
W1007 Wire 61/99/160/W13A/W13A W1008 Wire 51/05/220/W13A/W13A W1010 Wire 51/05/220/W13A/W13A W1011 Jumper IPS-1041-2 W1012 Jumper IPS-1041-4 W1013 Jumper IPS-1041-4 W1014 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1016 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1021 Jumper IPS-1041-4 W1022 Jumper IPS-1041-2 W1023 Jumper IPS-1041-2 W1026 Jumper IPS-1041-2 W1027 Jumper IPS-1041-2 W1030 Jumper IPS-1041-2 W1031 Jumper IPS-1041-2 W1032 Jumper IPS-1041-4 W1033 Jumpe		Wire	
W1008		AA#	
W1009 Wire 51/05/220W13A/W13A W1010 08 A W1011 Jumper IPS-1041-2 W1012 Jumper IPS-1041-4 W1013 Jumper IPS-1041-4 W1014 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1016 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1021 Jumper IPS-1041-4 W1022 Jumper IPS-1041-4 W1023 Jumper IPS-1041-4 W1025 Jumper IPS-1041-4 W1026 Jumper IPS-1041-4 W1027 Jumper IPS-1041-4 W1028 Jumper IPS-1041-4 W1030 Jumper IPS-1041-2 W1031 Jumper IPS-1041-4 W1032 Jumper IPS-1041-		vvire	
W1010 Description A A W1011 Jumper IPS-1041-2 A W1012 Jumper IPS-1041-4 W1014 W1014 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1016 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1021 Jumper IPS-1041-4 W1022 Jumper IPS-1041-4 W1023 Jumper IPS-1041-4 W1025 Jumper IPS-1041-4 W1027 Jumper IPS-1041-4 W1028 Jumper IPS-1041-4 W1030 Jumper IPS-1041-4 W1031 Jumper IPS-1041-4 W1032 Jumper IPS-1041-4 W1033 Jumper IPS-1041-4 W1034 Jumper IPS-1041-4		Wire	
W1012 Jumper IPS-1041-4 W1013 Jumper IPS-1041-2 W1014 Jumper IPS-1041-4 W1015 Jumper IPS-1041-4 W1016 Jumper IPS-1041-4 W1017 Jumper IPS-1041-4 W1018 Jumper IPS-1041-4 W1019 Jumper IPS-1041-4 W1020 Jumper IPS-1041-4 W1022 Jumper IPS-1041-4 W1023 Jumper IPS-1041-2 W1026 Jumper IPS-1041-2 W1027 Jumper IPS-1041-4 W1029 Jumper IPS-1041-4 W1029 Jumper IPS-1041-2 W1030 Jumper IPS-1041-2 W1031 Jumper IPS-1041-4 W1032 Jumper IPS-1041-4 W1033 Jumper IPS-1041-4 W1034 Jumper IPS-1041-4 W1035 Jumper IPS-1041-4 W1036 Jumper IPS-1041-4 W1037 Jumper IPS-1041-4 W1038 Jumper IPS-1041-4 W1039 Jumper IPS-1041-4 W1039 Jumper IPS-1041-4 W1039 Jumper IPS-1041-4 W1039 Jumper IPS-1041-4 W1040 Jumper IPS-1041-4 W1041 Jumper IPS-1041-4 W1042 Jumper IPS-1041-4 W1043 Jumper IPS-1041-2 W1044 Jumper IPS-1041-2 W1045 Jumper IPS-1041-2 W1045 Jumper IPS-1041-2 W1046 Jumper IPS-1041-2 W1047 Jumper IPS-1041-2 W1048 Jumper IPS-1041-2 W1049 Jumper IPS-1041-4 W1050 Jumper IPS-1041-4 W1051 Jumper IPS-1041-4 W1053 Jumper IPS-1041-4 W1054 Jumper IPS-1041-4 W1055 Jumper IPS-1041-4 W1055 Jumper IPS-1041-4 W1056 Jumper IPS-1041-4 W1057 Jumper IPS-1041-4 W1059 Jumper IPS-1041-2 W1060 Jumper IPS-1041-4 W1061 Jumper IPS-1041-2 W1060 Jumper IPS-1041-4 W1061 Jumper IPS-1041-4		******	
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W1059 Jumper IPS-1041-2 W1060 Jumper IPS-1041-4 W1061 Jumper IPS-1041-2 W1062 Jumper IPS-1041-2 W1063 Jumper JPW-02H W1064 Jumper IPS-1041-4		•	** = ** * * *
W1060 Jumper IPS-1041-4 W1061 Jumper IPS-1041-2 W1062 Jumper IPS-1041-2 W1063 Jumper JPW-02H W1064 Jumper IPS-1041-4	_	•	-
W1061 Jumper IPS-1041-2 W1062 Jumper IPS-1041-2 W1063 Jumper JPW-02H W1064 Jumper IPS-1041-4			
W1062 Jumper IPS-1041-2 W1063 Jumper JPW-02H W1064 Jumper IPS-1041-4		•	
W1063 Jumper JPW-02H W1064 Jumper IPS-1041-4		•	
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W1065 Jumper IPS-1041-2			
	W1065	Jumper	IPS-1041-2

[MAIN	UNIT]			[MAIN	JNIT]	
REF. NO.	DESCRIPTION	PART NO.		REF. NO.	DESCRIPTION	PART NO.
W1066	Jumper	IPS-1041-2		W1131	Jumper	IPS-1041-4
W1067	Jumper	IPS-1041-4		W1132	Jumper	JPW-02H
W1068	Jumper	IPS-1041-4		W1133	Jumper	JPW-02H
W1069	Jumper	IPS-1041-4		W1134	Jumper	IPS-1041-2
W1070	Jumper	IPS-1041-2		W1135	Jumper	IPS-1041-2 IPS-1041-4
W1071	Jumper	IPS-1041-4		W1136 W1137	Jumper	IPS-1041-4
W1072 W1073	Jumper Jumper	IPS-1041-2 IPS-1041-2		W1137 W1138	Jumper Jumper	IPS-1041-4
W1073	Jumper	IPS-1041-4		W1139	Jumper	IPS-1041-4
W1075	Jumper	IPS-1041-4		W1140	Jumper	IPS-1041-4
W1076	Jumper	IPS-1041-2		W1141	Jumper	IPS-1041-4
W1077	Jumper	IPS-1041-2		W1142	Jumper	IPS-1041-2
W1078	Jumper	IPS-1041-2		W1143	Jumper	IPS-1041-2
W1079	Jumper	IPS-1041-2		W1144	Jumper	IPS-1041-4
W1080	Jumper	IPS-1041-4		W1145	Jumper	IPS-1041-4
W1081	Jumper	IPS-1041-2		W1146	Jumper	IPS-1041-4
W1082	Jumper	IPS-1041-2		W1147	Jumper	IPS-1041-2
W1083	Jumper	JPW-02H		W1148	Jumper	IPS-1041-2
W1084	Jumper	IPS-1041-4		W1149	Jumper	IPS-1041-4
W1086	Jumper	IPS-1041-4		W1150	Jumper	IPS-1041-4 IPS-1041-2
W1087 W1088	Jumper Jumper	IPS-1041-4 IPS-1041-2		W1151 W1152	Jumper Jumper	IPS-1041-2
W1089	Jumper	IPS-1041-4		W1152 W1153	Jumper	IPS-1041-2
W1003	Jumper	JPW-02H		W1154	Jumper	IPS-1041-2
W1091	Jumper	IPS-1041-4		W1155	Jumper	IPS-1041-2
W1092	Jumper	IPS-1041-4		W1156	Jumper	IPS-1041-4
W1093	Jumper	IPS-1041-4		W1157	Jumper	IPS-1041-2
W1094	Jumper	IPS-1041-4		W1158	Jumper	JPW-02A
W1095	Jumper	IPS-1041-4		W1159	Jumper	IPS-1041-2
W1096	Jumper	IPS-1041-4		W1160	Jumper	IPS-1041-2
W1097	Jumper	IPS-1041-4		W1161	Jumper	JPW-02A
W1098	Jumper	IPS-1041-4		W1162 W1163	Jumper	JPW-02A JPW-02A
W1099 W1100	Jumper Jumper	IPS-1041-2 IPS-1041-2		VV 1103	Jumper	JE WYOZA
W1100 W1101	Jumper	IPS-1041-4				
W1101 W1102	Jumper	IPS-1041-4				
W1103	Jumper	IPS-1041-2				
W1104	Jumper	IPS-1041-2				
W1105	Jumper	IPS-1041-2				
W1106	Jumper	IPS-1041-4				
W1107	Jumper	IPS-1041-4				
W1108	Jumper	IPS-1041-4				
W1109	Jumper	IPS-1041-4				
W1110	Jumper	IPS-1041-4				
W1111 W1112	Jumper	IPS-1041-4 IPS-1041-4				
W1112 W1113	Jumper Jumper	IPS-1041-4				
W1113	Jumper	IPS-1041-4				
W1115	Jumper	IPS-1041-2				
W1116	Jumper	IPS-1041-4				
W1117	Jumper	IPS-1041-4				
W1118	Jumper	IPS-1041-4				
W1119	Jumper	IPS-1041-4				
W1120	Jumper	IPS-1041-4				
W1121	Jumper	IPS-1041-4				
W1122	Jumper	IPS-1041-4				
W1123	Jumper	IPS-1041-2				
W1124 W1125	Jumper	IPS-1041-4 IPS-1041-2				
W1125 W1126	Jumper Jumper	IPS-1041-2 IPS-1041-2				
W1126 W1127	Jumper	IPS-1041-2				
W1128	Jumper	IPS-1041-2				
W1129	Jumper	IPS-1041-4				
W1130	Jumper	IPS-1041-2				
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[FILTER UNIT]

[FIEIEN			(112121		
REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DESCRIPTION	PART NO.
D1501	Diode	1N4002	C1506	Dip Mica	DM19C681J51CR
D1502	Diode	1N4002			680P 500V
D1503	Diode	1N4002	C1507	Ceramic	150P 500V
D1504	Diode	1N4002	C1508	Dip Mica	DM19C821J51CR
D1505	Diode	1N4002			820P 500V
D1506	Diode	1N4002	C1509	Ceramic	120P 500V
D1507	Diode	1N4002	C1510	Dip Mica	DM19C471J51CR
D1508	Diode	1K60		•	470P 500V
D1509	Diode	1K60	C1511	Dip Mica	DM19C471J51CR 470P 500V
			C1512	Ceramic	120P 500V
L1501	Coil	LR-51	C1513	Dip Mica	DM19C561J51CR
L1502	Coil	LR-50		-	560P 500V
L1503	Coil	LR-49	C1514	Ceramic	68P 500V
L1504	Coil	LR-141	C1515	Ceramic	300P 500V
L1505	Coil	LR-138	C1516	Ceramic	330P 500V
L1506	Coil	LR-138	C1517	Ceramic	100P 500V
L1507	Coil	LR-140	C1518	Dip Mica	DM19C391J51CR
L1508	Coil	LR-149			390P 500V
L1509	Coil	LR-149	C1519	Ceramic	56P 500V
		LR-53	C1520	Ceramic	220P 500V
L1510	Coil	LR-140	C1521	Ceramic	270P 500V
L1511	Coil	1			39P 500V
L1512	Coil	LR-140	C1522	Ceramic Ceramic	330P 500V
L1513	Coil	LR-54	C1523		33P 500V
L1514	Coil	LR-91	C1524	Ceramic	
L1515	Coil	LR-91	C1525	Ceramic	180P 500V
L1516	Coil	LR-55	C1526	Ceramic	180P 500V
L1517	Coil	LR-56	C1527	Ceramic	22P 500V
L1518	Coil	LR-56	C1528	Ceramic	270P 500V
L1519	Coil	LA-168	C1529	Ceramic	56P 500V
L1520	Coil	L6 222 (2.2m)	C1530	Ceramic	100P 500V
L1521	Coil	LR-22A	C1531	Ceramic	100P 500V
L1522	Coil	FL5H 101K (100μ)	C1532	Ceramic	10P 500V
L1523	Coil	FL5H 101K (100µ)	C1533	Ceramic	200P 500V
L1524	Coil	FL5H 101K (100μ)	C1534	Ceramic	47P 500V
L1525	Coil	FL5H 101K (100μ)	C1535	Ceramic	100P 500V
L1526	Coil	FL5H 101K (100μ)	C1536	Trimmer	ECV-1ZW20 × 32E 20P
L1527	Coil	FL5H 101K (100µ)	C1537	Ceramic	220P 50V
L1528	Coil	FL5H 101K (100μ)	C1538	Ceramic	100P 50V
L1529	Coil	FL5H 101K (100µ)	C1539	Ceramic	100P 50V
L1530	Coil	FL4H 100K (10μ)	C1540	Barrier Lay	0.047 25V
L1531	Coil	FL4H 100K (10μ)	C1541	Barrier Lay	0.047 25V
L1532	Coil	FL4H 100K (10μ)	C1542	Barrier Lay	0.047 25V
L1533	Coil	FL4H 100K (10μ)	C1543	Barrier Lay	0.047 25V
L1534	Coil	FL4H 100K (10μ)	C1544	Barrier Lay	0.047 25V
L1535	Coil	FL4H 100K (10µ)	C1545	Barrier Lay	0.047 25V
			C1546	Barrier Lay	0.047 25V
		İ	C1547	Barrier Lay	0.047 25V
R1501	Resistor	68 R50X	C1548	Ceramic	0.0047 50V
R1502	Resistor	22k ELR25	C1549	Ceramic	0.0047 50V
R1503	Resistor	100k ELR25	C1550	Ceramic	0.0047 50V
R1504	Resistor	22k R25	C1551	Ceramic	0.0047 50V
R1505	Resistor	47k ELR25	C1552	Ceramic	0.0047 50V
			C1553	Ceramic	0.0047 50V
			C1554	Dip Mica	DM19C561J51CR
C1501	Dip Mica	DM20C122J51CR		•	560P 500V
	•	1200P 500V	C1555	Dip Mica	DM20C102J51CR
C1502	Dip Mica	DM19C561J51CR		-	1000P 500V
		560P 500V	C1556	Ceramic	270P 500V
C1503	Dip Mica	DM20C152J51CR	C1557	Ceramic	330P 500V
		1500P 500V	C1559	Ceramic	56P 500V
C1504	Ceramic	150P 500V	C1560	Ceramic	120P 500V
C1505	Dip Mica	DM20C122J51CR	C1561	Ceramic	100P 500V
5,555	pou	1200P 500V	0.55		
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	[FILTER	UNII		[PLL UN	AII]
	REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DES
	RL1501	Relay	FBR313D012-22	IC1	IC
	RL1502	Relay	FBR313D012-22	IC2	IC
	RL1503	Relay	FBR313D012-22	IC3	IC
	RL1504	Relay	FBR313D012-22	IC4	ic
	RL1505	Relay	FBR313D012-22	IC5	ic
	RL1505	Relay	FBR313D012-22	103 107	ic
				1C8	IC
	RL1507	Relay	FBR313D012-22		i
	RL1508	Relay	FBR313D012-22	IC201	IC
	RL1509	Relay	FBR313D012-22	IC202	IC
	RL1510	Relay	FBR313D012-22	IC203	IC
	RL1511	Relay	FBR313D012-22	IC204	IC
	RL1512	Relay	FBR313D012-22	i	
	RL1513	Relay	FBR313D012-22		
	RL1514	Relay	FBR313D012-22	Q1	Trans
				Q2	Trans
	14504	0	TMD 104V VO	Q3	Trans
	J1501	Connector	TMP-J01X-V2	Q4	Trans
	J1502	Connector	TL-25P-03-V1	Q5	FET
	J1503	Connector	TMP-J01X-V2	Q6	FET
				Q7	Trans
	P1502	Connector	TL-25H-07-B1	Q8	Trans
	F1302	Connector	1E-25(1-07-B)	Q9	Trans
				Q11	Trans
	EP1501	P.C.B	B-888C (42726)	Q13	Trans
	la.	***		Q14	Trans FET
	W1501	Wire	23/01/195/C01/C21	Q15	
	W1502	Wire	23/02/195/C01/C21	Q16	Trans
	W1503	Wire	23/03/245/C01/C21	Q17	Trans
	W1504	Wire	23/04/270/C01/C21	Q18	FET
	W1505	Wire	23/05/290/C01/C21	Q19	FET
	W1506	Wire	23/06/310/C01/C21	Q20	FET
	W1507	Wire	23/07/330/C01/C21	Q21	FET
	W1510	Jumper	JPW-02A	Q22	Trans
	W1511	Jumper	JPW-02A	Q23	Trans
	W1512	Jumper	JPW-02A	Q24	Trans
	W1513	Jumper	JPW-02A	Q25	Trans
	W1514	Jumper	JPW-02A	Q26	Trans
	W1515	Jumper	JPW-02A	Q201	FET
	W1516	Jumper	JPW-02A	Q202	Trans
	W1517	Jumper	JPW-02A	Q203	Trans
	W1518	Jumper	JPW-02A		
	W1519	Jumper	JPW-02A		
	W1520	Jumper	JPW-02A	D4	Diode
	W1521	Jumper	JPW-02A	D5	Diode
	W1522	Jumper	JPW-02A	D7	Diode
	W1523	Jumper	JPW-02A	D8	Diode
	W1523 W1524	Jumper	JPW-02A	D9	Diode
	W1525	Jumper	JPW-02A	D10	Diode
	W1525 W1526	Jumper	JPW-02A	D11	Diode
	W1520 W1527		JPW-02A	D112	Vario
		Jumper	JPW-02A	D12	Vario
	W1528	Jumper	** ** ***	D13	-
	W1529	Jumper	JPW-02A		Vario
	W1530	Jumper	JPW-02A	D15	Vario
	W1531	Jumper	JPW-02A	D16	Diode
	W1532	Jumper	JPW-02A	D17	Diode
	W1533	Jumper	74/98/040/X98/X98	D18	Diode
	W1534	Jumper	JPW-02A	D19	Diode
	W1535	Jumper	JPW-02A	D20	Zene
	W1536	Jumper	JPW-02H	D22	Diode
İ	W1537	Jumper	74/98/050/X98/X98	D23	Diode
į	W1538	Jumper	74/98/050/X98/X98	D201	Varic
	W1539	Jumper	JPW-02A		
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			1	FI1	Cryst
-				L	

REF. NO.	DESCRIPTION	PART NO.
IC1	IC	M54929P
IC2	IC	M54466L
IC3	IC	μPC1037H
IC4	IC	μPC1037H
IC5	IC	M74LS90P
IC7	IC	TA78L008AP
1C8	IC	μΑ7805
IC201	IC IC	M54929P M54466L
1C202 1C203	IC IC	M74LS90P
IC203	l ic	M54459L
10204		MOTTOOL
Q1	Transistor	2SC945 P
Q2	Transistor	2SC945 P
Q3	Transistor	2SC945 P
Q4	Transistor	2SC945 P
Q5	FET	2SK30A Y
Q6	FET	2SK30A Y
Q7	Transistor	2SC1571 G
Q8	Transistor	2SA1015 Y
Q9	Transistor	2SC945 P
Q11	Transistor	2SC383TM
Q13 Q14	Transistor Transistor	2SC3399 2SC383TM
Q14 Q15	FET	2SK241 Y
Q16	Transistor	2SC383TM
Q10 Q17	Transistor	2SC383TM
Q18	FET	2SK192A GR
Q19	FET	2SK192A GR
Q20	FET	2SK192A GR
Q21	FET	2SK192A GR
Q22	Transistor	2SC383TM
Q23	Transistor	2SC383TM
Q24	Transistor	2SC945 P
Q25	Transistor	2SC383TM 2SC383TM
Q26 Q201	Transistor FET	2SK192A GR
Q201	Transistor	2SC763 C
Q202 Q203	Transistor	2SC945 P
D4	Diode	1SS53
D5	Diode	1SS53
D7	Diode	1SS53
D8	Diode	1SS53
D9 D10	Diode Diode	1SS53 1SS53
D10 D11	Diode	1SS53
D11	Varicap	FC52M
D13	Varicap	1SV50E
D14	Varicap	1SV50E
D15	Varicap	1SV50E
D16	Diode	1SS53
D17	Diode	1SS53
D18	Diode	1SS53
D19	Diode	1SS53
D20	Zener	RD5.1E B2 1SS53
D22 D23	Diode Diode	1SS53
D23 D201	Varicap	1SV50E
FI1	Crystal Filter	FL-69 (30M15A)

REF. NO.	DESCRIPTION	PART NO.
X1	Crystal	CR-165 (30.72MHz)
L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L29 L30 L201 L202 L203 L204	Coil Coil Coil Coil Coil Coil Coil Coil	LS-114 LS-114 LS-114 LS-114 LAL04NA 102K EL0810SKI-101K (100µ) LS-162 LA-224 LA-254 LB4 R36 (0.36µ) LB4 R23 (0.23µ) LW-20 FL5H 101K (100µ) FL5H 101K (100µ) LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 FR-79 LB-135 LW-25 LR-79 LB-135 LW-25 FR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 LR-79 LB-135 LW-25 FR-79 LB-135 LW-25 LAL03NA R56M (0.56µ) LAL04NA 101K (100µ) LB-113 LW-25 FL5H 101K (100µ) LAL04NA 101K (100µ)
L205 L206 L207 L208	Coil Coil Coil Coil	LAL04NA 101K (100μ) LAL04NA 101K (100μ) BT01RN1-A61 BT01RN1-A61
R8 R9 R10 R11 R12 R17 R18 R19 R20 R21 R22 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R37	Resistor Resistor	47 ELR20 100 ELR25 15k ELR25 11k R25 470 ELR25 10k ELR25 220 ELR25 22k ELR25 100 ELR25 8.2k R25 11k R25 100 ELR25 220 ELR25 100 ELR25 220 ELR25 100 ELR25 220 ELR25 220 ELR25 22k ELR25 10k ELR25 22k ELR25 22k ELR25 22k ELR25 22k ELR25 22k ELR25 220 ELR25 220 ELR25 220 ELR25 220 ELR25 220 ELR25

REF. NO.	DESCRIPTION	PAI	RT NO.
R38	Resistor	390	ELR25
R39	Resistor	1k	R25
R40	Resistor	4.7k	ELR25
R41	Resistor	1.8M	ELR25
R42	Resistor	1k	ELR25
R43	Resistor	1k	ELR25
R44	Resistor	4.7k	ELR25
R45	Resistor	1k	R25
R46	Resistor	4.7k	R25
R47	Resistor	100	R25
R48 R49	Resistor Resistor	2.2k 2.2k	ELR25 ELR25
R50	Resistor	2.∠k 10k	ELR25
R52	Resistor	27k	ELR25
R53	Resistor	22k	ELR25
R54	Resistor	22k	ELR25
R55	Resistor	47k	ELR25
R56	Resistor	100k	ELR25
R57	Resistor	100k	ELR25
R58	Resistor	150	ELR25
R59	Resistor	3.3k	ELR25
R60	Resistor	100k	ELR25
R61	Resistor	100k	ELR25
R62	Resistor	150	ELR25
R63	Resistor	3.3k	ELR25
R64	Resistor	100k	ELR25
R65	Resistor	100k	ELR25
R66	Resistor Resistor	150 3.3k	ELR25 ELR25
R67 R68	Resistor	3.3k 100k	ELR25
R69	Resistor	100k	ELR25
R70	Resistor	150	ELR25
R71	Resistor	3.3k	ELR25
R72	Resistor	180	ELR25
R73	Resistor	33	ELR25
R74	Resistor	4.7k	ELR25
R75	Resistor	220	ELR25
R76	Resistor	330	ELR25
R77	Resistor	22	ELR25
R78	Resistor	220	ELR25
R79	Resistor	22k	ELR25
R80	Resistor	100	ELR25
R81	Resistor	560	ELR25 ELR25
R82 R83	Resistor Resistor	10k 47k	ELR25 ELR25
R84	Resistor	10k	ELR25
R85	Resistor	220	ELR25
R86	Resistor	10k	ELR25
R87	Resistor	100	ELR25
R88	Resistor	100	R25
R89	Resistor	220	ELR25
R90	Resistor	22k	ELR25
R91	Resistor	10k	ELR25
R92	Resistor	470	ELR25
R93	Resistor	47	ELR25
R94	Resistor	10k	R25
R95	Resistor	10k	R25
R96	Resistor	10k	R25
R97	Resistor	10k 47k	R25 R25
R98 R99	Resistor Resistor	47K 47k	R25
R100	Resistor		P10-J 101W
R101	Resistor	120	R50X
R103	Resistor	47	ELR25

REF. NO.	DESCRIPTION	PART	ΓNO.		REF. NO.	DESCRIPTION	PART NO.	
R107	Resistor	100	ELR25	1	C51	Ceramic	330P 50V	
R109	Resistor	3.3k	ELR25		C52	Ceramic	68P 50V	
R201	Resistor	33k	ELR25		C53	Ceramic	150P 50V	
R202	Resistor	1k	R25		C54	Ceramic	0.0047 50V	
R204	Resistor	33k	ELR25	l	C55	Ceramic	0.0047 50V	
R205	Resistor	10k	ELR25		C56	Ceramic	0.001 50V	
R206	Resistor	470k	ELR25	İ	C57	Ceramic	0.0047 50V	
R207	Resistor	470k	ELR25		C58	Ceramic	0.0022 50V	
R208	Resistor	180	ELR25		C59	Ceramic	0.0047 50V	
R209	Resistor	150	ELR25	j	C60	Ceramic	0.0047 50V	
R210	Resistor	1.2k	ELR25		C62	Ceramic	0.0047 50V	
R211	Resistor	1.2k	ELR25		C63	Ceramic	0.0047 50V	
R212	Resistor	330	ELR25		C64	Electrolytic	47 10V	
R213	Resistor	150	R25		C65	Array	B7ZC0717-32N 470	OP ×
R214	Resistor	4.7k	R25		C66	Electrolytic	47 10V	
R215	Resistor	2.2k	R25	1	C67	Barrier Lay	0.047 25V	
R216	Resistor	2.7k	ELR25	1	C68	Barrier Lay	0.1 16V	
R217	Resistor	2.7k	ELR25	1	C69	Ceramic	0.001 50V	
R218	Resistor	390	ELR25	1	C70	Ceramic	0.001 50V	
R219	Resistor	22k	ELR25		C71	Electrolytic	1 50V	
R220	Resistor	220	R25		C72	Electrolytic	100 10V	
R221	Resistor	470	R25		C73	Ceramic	0.0047 50V	
R223	Resistor	150	R20		C74	Barrier Lay	0.047 25V	
R224	Resistor	18	ELR20		C75	Electrolytic	0.47 50V BP	
R225	Resistor	270	ELR20		C76	Ceramic	30P 50V CH	
R226	Resistor	270	ELR20		C77	Ceramic	30P 50V CH	
					C78	Trimmer	VCT51C143A 10P	
					C79	Ceramic	47P 50V CH	
C9	Ceramic	10P	50V		C80	Ceramic	12P 50V CH	
C10	Ceramic	68P	50V		C81	Ceramic	12P 50V CH	
C11	Ceramic	47P	50V		C82	Ceramic	0.0047 50V	
C12	Ceramic	100P	50V		C83	Ceramic	1P 50V	
C17	Ceramic	0.0047	50V		C84	Ceramic	0.0047 50V	
C19	Ceramic	0.001	50V		C85	Barrier Lay	0.047 25V	
C20	Ceramic	0.001	50V		C86	Ceramic	51P 50V CH	
C21	Ceramic	0.0047	50V		C87	Ceramic	18P 50V CH	
C22	Ceramic	8P	50V		C88	Trimmer	VCT51C143A 10P	
C23	Ceramic	1P	50V		C89	Ceramic	51P 50V CH	
C24	Ceramic	8P	50V		C90	Ceramic	12P 50V CH	
C25	Ceramic	1P	50V		C91	Ceramic	12P 50V CH	
C26	Ceramic	8P	50V		C92	Ceramic	0.0047 50V	
C27	Barrier Lay	0.047	25V		C93	Ceramic	1P 50V	
C29	Ceramic	470P	50V		C94	Ceramic	0.0047 50V	
C30	Ceramic	470P	50V		C95	Ceramic	47P 50V CH	
C31	Ceramic	0.1	16V		C96	Ceramic	15P 50V CH	
C32	Ceramic	0.0047	50V		C97	Trimmer	VCT51A123A 6P	
C33	Electrolytic	47	10V		C98	Ceramic	47P 50V CH	
C34	Ceramic	0.0047	50V		C99	Ceramic	12P 50V CH	
C35	Ceramic	6P	50V		C100	Ceramic	8P 50V CH	
C36	Ceramic	6P	50V		C101	Ceramic	0.0047 50V	
C37	Ceramic	0.0047	50V		C102	Ceramic	1P 50V	
C38	Ceramic	0.0047	50V		C103	Ceramic	0.0047 50V	
C39	Ceramic	33P	50V		C104	Barrier Lay	0.047 25V	
C40	Ceramic	0.0047	50V		C105	Ceramic	39P 50V CH	
C41	Ceramic	0.001	50V		C106	Ceramic	10P 50V CH	
C42	Ceramic	0.0047	50V		C107	Trimmer	VCT51A123A 6P	
C43	Ceramic	43P	50V	, I	C108	Ceramic	47P 50V CH	
C44	Ceramic	51P	50V		C109	Ceramic	12P 50V CH	
C45	Ceramic	120P	50V		C110	Ceramic	6P 50V CH	
C46	Ceramic	22P	` 50V		C111	Ceramic	0.0047 50V	
C47	Ceramic	100P	50V		C112	Ceramic	1P 50V	
C48	Ceramic	150P	50V		C113	Ceramic	0.0047 50V	
C49	Ceramic	82P	50V		C114	Barrier Lay	0.047 25V	
	Ceramic	56P	50V		C115	Electrolytic	100 10V	

REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DESCRIPTION	PART NO.
REF. NO.	DESCRIPTION	PARI NO.	REF. NO.	DESCRIPTION	PART NO.
C116	Ceramic	0.0047 50V	J1	Connector	TL-25P-05-V1
C117	Ceramic	22P 50V	J2	Connector	5138-11CPB TL-25P-04-V1
C118	Ceramic	47P 50V	J3	Connector	TL-25P-04-VT TMP-J01X-V2
C119	Ceramic	47P 50V 0.0047 50V	J4 J5	Connector Connector	TMP-J01X-V2
C120 C121	Ceramic Ceramic	0.0047 50V 0.0047 50V	J6	Connector	IPS-1136
C121	Ceramic	0.0047 50V 0.001 50V	"	Oomector	11 0-1100
C124	Ceramic	47P 50V			
C125	Ceramic	0.001 50V	P1	Connector	(TMP-P01X-A1) W35
C126	Ceramic	0.0047 50V			
C127	Ceramic	47P 50V			
C128	Electrolytic	47 10V	EP1	P.C.B	B-1104B (42443)
C129	Electrolytic	100 16V			
C130	Ceramic	0.0047 50V	,,,,	142	00/04/050/004/004
C131	Ceramic	0.0047 50V	W1 W2	Wire Wire	23/01/250/C21/C21 23/02/165/C21/C21
C132	Electrolytic	47 10V 0.001 50V	W3	Wire	23/03/105/C21/C21
C133 C134	Ceramic Ceramic	0.001 50V 0.001 50V	W4	Wire	23/04/165/C21/C21
C134	Ceramic	0.001 50V 0.001 50V	W5	Wire	23/05/170/C21/C21
C136	Ceramic	0.001 50V 0.001 50V	W6	Wire	23/06/135/C21/C21
C137	Electrolytic	10 16V	W7	Wire	61/99/125/W13A/W13A
C139	Ceramic	0.0047 50V	W8	Wire	L 08 A A
C140	Ceramic	0.0047 50V	W9	Wire	61/99/140/W13A/W13A
C141	Ceramic	0.0047 50V	W10	Wire	L 08 A A
C146	Ceramic	100P 50V	W14	Jumper	JPW-02A
C147	Ceramic	5P 50V	W15	Jumper	IPS-1041-4
C148	Ceramic	10P 50V	W16	Jumper	JPW-02A
C149	Ceramic	120P 50V	W17 W18	Jumper	JPW-02A JPW-02A
C201 C202	Array Mylar	B7ZC0717-32N 470P×6 0.01 50V	W19	Jumper Jumper	JPW-02A
C202	Ceramic	0.0022 50V	W20	Jumper	JPW-02A
C204	Ceramic	0.0022 50V 0.001 50V	W21	Jumper	JPW-02H
C206	Electrolytic	47 10V	W24	Jumper	JPW-02A
C207	Ceramic	39P 50V UJ	W25	Jumper	JPW-02A
C208	Ceramic	22P 50V	W26	Jumper	JPW-02A
C209	Ceramic	4P 50V	W27	Jumper	JPW-02A
C210	Ceramic	4P 50V	W28	Jumper	JPW-02A
C211	Electrolytic	47 10V	W29	Jumper	IPS-1041-4 JPW-02A
C212	Ceramic	0.0022 50V 1P 50V	W30 W31	Jumper Jumper	IPS-1041-4
C213 C214	Ceramic Ceramic	0.0047 50V	W31	Jumper	IPS-1041-4
C215	Ceramic	0.0047 50V	W33	Jumper	IPS-1041-4
C216	Ceramic	47P 50V	W35	Wire	[61/99/350/W13A/C31
C217	Ceramic	0.0022 50V	W36	Wire	L 08 A
C218	Ceramic	0.0047 50V	W38	Jumper	IPS-1041-2
C219	Barrier Lay	0.047 25V	W39	Jumper	IPS-1041-4
C220	Ceramic	470P 50V	W40		73/98/020/X98/X98
C221	Ceramic	0.0047 50V			
C222 C223	Ceramic Electrolytic	0.001 50V 47 10V			
C223	Ceramic	0.0047 50V			
C225	Ceramic	0.0047 50V			
C226	Ceramic	0.0047 50V			
C227	Ceramic	0.0047 50V	1		
C228	Ceramic	330P 50V			
C229	Barrier Lay	0.047 25V			
C230	Ceramic	470P 50V			
C231	Electrolytic	10 25V			
C232	Ceramic	0.0047 50V 82P 50V CH			
C233 C234	Ceramic Ceramic	82P 50V CH 0.0047 50V			
C234	Ceramic	0.0047 50V 0.0047 50V			
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[RAM UNIT]

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REF. NO.	DESCRIPTION	PART NO.	REF. NO.	DESCRIPTION	PART NO.
P2001	Connector	TL-25H-03-B1	IC501	IC	μPD446C-1
P2002	Connector	TL-25H-07-B1	IC502	IC	HD7432
P2003	Connector	TL-25H-04-B1			
P2004	Connector	TL-25H-08-B1			
P2005	Connector	TL-25H-06-B1	Q501	Transistor	2SC945P
P2006	Connector	TL-25H-04-B1			
P2007	Connector	TL-25H-06-B1			
P2008	Connector	TL-25H-08-B1	D501	Diode	1S953
P2009	Connector	TL-25H-05-B1	D502	Diode	1\$953
P2010	Connector	TL-25H-04-B1	D503	Diode	1S953
P2011	Connector	TL-25H-05-B1			
P2012	Connector	TL-25H-05-B1			
P2013	Connector	TL-25H-05-B1	R501	Resistor	47k R20
P2014	Connector	TL-25H-07-B1	R502	Resistor	390 ELR20
P2015	Connector	TL-25H-09-B1	R503	Resistor	10k R25 4.7k R20
P2016	Connector	TL-25H-06-B1	R504	Resistor	
P2017	Connector	TL-25H-05-B1	R505	Resistor	1k R20
P2018	Connector	TL-25H-04-B1	R506	Resistor	47k R20
P2019	Connector	TL-25H-04-B1	R507	Array	RM4-473
P2020	Connector	TL-25H-05-B1		,	l
P2021	Connector	TL-25H-09-B1	0504	Barrier Lay	0.1 16V
P2022	Connector	TL-25H-07-B1	C501	Ceramic	47P 50V
P2023	Connector	TL-25H-03-B1	C502	Ceramic	71F 30V
P2024	Connector	TL-25H-04-B1			
P2025	Connector	TL-25H-07-B1	J501	Connector	5124-12BH
P2026	Connector	TL-25H-07-B1	J502	Connector	5124-08BH
			J502	Connector	5124-00BH
		LIM 00			·
MC2001	Microphone	HM-28	0.74	Lithium Battery	DD2225 1HM
			BT1	Lithium battery	BH2323-1HW
			EP1	P.C.B	B-938
			EFI	P.O.B	B-930
					;
			W1	Jumper	IPS-1041-4
			W2	Jumper	IPS-1041-4
			w3	Jumper	IPS-1041-4
			W4	Jumper	JPW-02A
			W5	Jumper	JPW-02A
			w ₆	Jumper	JPW-02A
			w ₇	Jumper	JPW-02A
			ws	Jumper	IPS-1041-2
			l we	Jumper	JPW-02A
			W10	Jumper	IPS-1041-2
			W11	Jumper	JPW-02A
			W12	Jumper	JPW-02A
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[LOGIC UNIT]

REF. NO.	DESCRIPTION	PART NO.	REF. NO
IC505	IC	M50763-537SP (SC-1042)	R535
IC506	IC	M50781SP	R536
IC507	IC	TC4081BP	R537
IC508	IC	TC4013BP	R538
IC509	IC	BA618	R539
IC510	IC	F7805	R540
			R541
			R542
Q503	Transistor	2SC945 P	R543
Q504	Transistor	2SA1345	R544
Q505	Transistor	2SC3399	R545
			R546
			R548
D509	Diode	18853	R549
D510	Diode	1SS53	R550
D511	Diode	1SS53	R551
D512	Diode	1SS53	
D513	Diode	1SS53	0505
D514	Diode	1SS53	C505
D515	Diode	1SS53	C506 C507
D516	Diode	1SS53	C507
D517	Diode	1SS53	C508
D519	Diode	1SS53 1SS53	C510
D520	Diode Diode	1S953 1S953	C510
D522 D523	Diode	RD8.2E B3	C512
D523	Diode	NUO.ZE BS	C512
			C514
X501	Ceralock	CSB400A	C515
7301	Ceralock	030400A	C516
			C517
L501	Coil	BT01RN1-A61	
L502	Coil	FL5H 101K (100μ)	C518
L503	Coil	FL5H 101K (100μ)	C519
L504	Coil	FL5H 101K (100µ)	1
L505	Coil	FL5H 101K (100µ)	C520
L506	Coil	FL5H 101K (100μ)	C521
L507	Coil	FL5H 101K (100µ)	C522
L508	Coil	FL5H 101K (100µ)	C523
			C524
			C525
R510	Resistor	10k R25	
R511	Resistor	5.6k R25	
R512	Array	RMX-4 47k	J505
R513	Resistor	1.5 R25	J506
R514	Resistor	1.5 R25 1k R25	J507 J508
R515	Resistor	1k R25 1k R25	J508 J509
R516	Resistor	1k R25 1k R25	J509 J510
R517	Resistor	1k R25 1k R25	J510 J511
R518	Resistor	1k R25 1k R25	J511
R519	Resistor	10k R25	J512
R520 R521	Resistor	RMX-4 10k	J513 J514
	Array	RMX-4 10k	1 0014
R522 R523	Array Resistor	10k R25	
R523	Resistor	10k R25	P501
R525	Resistor	10k R25	-301
R525 R526	Resistor	10k R25	
R526 R527	Hesistor Array	RMX-8 47k	EP501
R530	Resistor	1k R25	-: 551
R531	Resistor	1k R25	
R532	Resistor	1k R25	W517
R533	Resistor	1k R25	W518
R534	Resistor	1k R25	W519
	. 10010101		

REF. NO.	DESCRIPTION	PART	NO.
R535	Resistor	1k	R25
R536	Resistor	1k	R25
R537	Resistor	47k	R25
R538	Resistor	100k	ELR25
R539	Resistor	680k	ELR25
R540	Resistor	1k	R25
R541	Resistor	1k	R25
R542	Resistor	1M	R25
R543	Resistor	2.7k	R25
R544	Resistor	10	R50X
R545	Resistor	560k	R25
R546	Resistor	47k	R25
R548	Resistor	1k	R25
R549	Resistor	47k	ELR25
R550	Resistor	47k	ELR25
R551	Resistor	4.7k	ELR25
C505	Electrolytic	47	16V
C506	Ceramic	0.0047	50V
C507	Electrolytic	47	16V
C508	Ceramic	0.0047	50V
C509	Barrier Lay	0.1	16V
C510	Electrolytic	100	10V
C511	Ceramic	0.0047	50V
C512	Barrier Lay	0.047	25V
C513	Tantalum	1	35V
C514	Ceramic	120P	50V
C515	Ceramic	120P	50V
C516	Array	B7ZC07	17-32N 470P×6
C517	Array	B8ZC01	11-32N
00	, ,	0.0082×	7
C518	Array	B5RC01	24-32N 0.001×4
C519	Array	B8ZC01	
00.0	, ,	0.0082×	7
C520	Barrier Lay	0.1	16V
C521	Barrier Lay	0.047	25V
C522	Electrolytic	0.47	50V BP
C523	Electrolytic	0.47	50V BP
C524	Electrolytic	1	50V BP
C525	Electrolytic	1	50V BP
5525			
J505	Connector	5138-110	CPB
J506	Connector	TL-25P-0	
J507	Connector	TLB-P04	
J508	Connector	TL-25P-0	
J509	Connector	3022-12	3
J510	Connector	3022-08	3
J511	Connector	TL-25P-0	
J512	Connector	5138-110	CPB
J513	Connector	TL-25P-0	
J514	Connector	TL-25P-0	
P501	Connector	TL-25H-0)4-B1
EP501	P.C.B.	B-1105C	(42708)
W517	Jumper	IPS-1041	- 4
W518	Jumper	IPS-1041	-4
W519	Jumper	IPS-1041	l-4

[LOGIC UNIT]

[RF UNIT]

[LOGIC	UNIT]	
REF. NO.	DESCRIPTION	PART NO.
W520 W521 W522 W523 W524 W525 W526 W527 W528 W529 W531	Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper	IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4
W532 W533 W534 W535 W536 W537 W538 W539 W540 W541 W542	Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper Jumper	IPS-1041-4 JPW-02H IPS-1041-4 IPS-1041-4 IPS-1041-4 JPW-02H IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4
W544 W545 W546 W547 W548 W551 W552 W553 W554 W555	Jumper Jumper Jumper Jumper Jumper Wire Wire Wire Wire Wire Wire Wire	IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-4 IPS-1041-2 23/01/100/C22/C01 23/02/100/C22/C01 23/03/105/C22/C01 23/04/110/C22/C01 SMCD-11X60ADX10-G
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<u> </u>	1	
REF. NO.	DESCRIPTION	PART NO.
IC601	IC	μA78L82AWC
IC602	IC	BA618
IC603	IC	NJM4558D
IC604	IC	ND487C1-3R
Q601	Transistor	2SC3399
Q602	Transistor	2SB562
Q603 Q604	Transistor Transistor	2SC945 Q 2SC945 Q
Q605	Transistor	2SC945 Q
Q606	FET	3SK74 M
Q607	FET	2SK125
Q608	FET	2SK125
Q609	Transistor	2SC2053
Q610 Q611	FET FET	3SK74 K 3SK74 K
Q612	FET	3SK74 M
Q613	Transistor	2SC2053
Q614	Transistor	2SC945 P
D601	Diode	1SS53
D602	Diode	18853
D603	Diode	1SS53
D604	Diode	18853
D605 D606	Diode Diode	1SS53 1SS53
D607	Diode	1SS53
D608	Diode	1SS53
D609	Diode	1SS53
D610	Diode	18853
D611	Diode	1SS53 1SS53
D612 D613	Diode Diode	1SS53
D614	Diode	1SS53
D615	Diode	18853
D616	Diode	1SS53
D617	Diode	1SS53
D618 D619	Diode Diode	18853 18853
20,0	2,000	
FI601	Crystal Filter	FL-64 (70M15B)
L601	Coil	FL5H 102K (1m)
L602	Coil	FL5H 102K (1m)
L603 L604	Coil Coil	EL0810SKI-102K (1m) EL0810SKI-101K (100μ)
L604 L605	Coil	EL0810SKI-101K (100μ)
L606	Coil	EL0810SKI-101K (100μ)
L607	Coil	EL0810SKI-101K (100μ)
L608	Coil	EL0810SKI-101K (100μ)
L609	Coil	EL0810SKI-101K (100μ)
L610 L611	Coil Coil	LB4 R83K (0.83μ) LR-116
L612	Coil	LR-116
L613	Coil	LS-254
L614	Coil	LS-254
L615	Coil	LS-114
L616 L617	Coil Coil	LS-254 LS-254
L617 L618	Coil	LS-198
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[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.
L619	Coil	LR-18
L620	Coil	LA-258
L621	Coil	LA-257
L622	Coil	LB4 R15K (0.15μ)
L623	Coil	FL4H 100K (10μ)
L624	Coil	LA-267
L625	Coil	LB4 R30K (0.30μ)
L626	Coil	LS-198
L627	Coil	LR-145
L628	Coil	EL0810SKI-101K (100μ)
L629	Coil	EL0810SKI-3R3K (3.3μ)
L630	Coil	EL0810SKI-2R7K (2.7μ)
L631	Coil	LR-20
L632	Coil	LB4 6R2J (6.2μ)
L633	Coil	LB4 R41K (0.41μ)
L634	Coil	LB4 R41K (0.41μ)
L635	Coil	LB4 R45K (0.45μ)
L636	Coil	LB4 R50K (0.50μ)
L637	Coil	EL5H 101K (100μ)
L638	Coil	LB4 R45K (0.45μ)
L639	Coil	LB4 R50K (0.50μ)
L640	Coil	LB4 R54K (0.54μ)
L641	Coil	LB4 R65K (0.65μ)
L642	Coil	FL5H 101K (100μ)
L643	Coil	LB4 R65K (0.65μ)
L644	Coil	LB4 R70K (0.70μ)
L645	Coil	LB4 R70K (0.70μ)
L646	Coil	LB4 R83K (0.83μ)
L647	Coil	FL5H 101K (100μ)
L648	Coil	LB4 R83K (0.83μ)
L649	Coil	EL0810SKI-1R0K (1.0μ)
L650	Coil	EL0810SKI-1R0K (1.0μ)
L651	Coil	EL0810SKI-1R0K (1.0μ)
L652	Coil	FL5H 101K (100μ)
L653	Coil	EL0810SKI-1R2K (1.2μ)
L654	Coil	EL0810SKI-1R5K (1.5μ) EL0810SKI-1R5K (1.5μ)
L655 L656	Coil Coil	EL0810SKI-1R5K (1.5μ)
L657	Coil	FL5H 101K (100μ)
	Coil	EL0810SKI-1R8K (1.8μ)
L658 L659	Coil	EL0810SKI-1R6K (1.0μ)
L660	Coil	EL0810SKI-2R2K (2.2μ)
L661	Coil	EL0810SKI-2R2K (2.2μ)
L662	Coil	FL5H 101K (100μ)
L663	Coil	EL0810SKI-102K (1m)
L664	Coil	EL0810SKI-3R3K (3.3μ)
L665	Coil	LB4 4R3J (4.3µ)
L666	Coil	EL0810SKI-3R9K (3.9μ)
L667	Coil	EL0810SKI-3R9K (3.9μ)
L668	Coil	LB4 4R3J (4.3μ)
R601	Resistor	1k R25
R603	Resistor	15k R25
R604	Resistor	47k R25
R605	Resistor	15k R25
R606	Resistor	22k R25
R607	Resistor	100 R25
R608	Resistor	68k CRB25FX
R609	Resistor	68k CRB25FX
R610	Resistor	39k CRB25FX
R611	Resistor	39k CRB25FX
R612	Trimmer	RHL0CS3
R613	Resistor	1M R25
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REF. NO.	DESCRIPTION	PART NO.		
R614	Resistor	6.8k R25		
R615	Resistor	220k R25		
R616	Resistor	220k R25		
R617	Resistor	330k R25		
R618	Resistor	10k R25		
R619	Trimmer	RHA3A140SA 10k		
R620	Resistor	10k R25		
R621	Trimmer	RHB0CN40YA 33k		
R622	Resistor	47k R25 15k R25		
R623	Resistor	8.2 R25		
R624 R625	Resistor Resistor	150 R25		
R626	Resistor	8.2 R25		
R627	Resistor	2.2k R25		
R628	Resistor	4.7k R25		
R629	Resistor	100 R25		
R630	Resistor	270 R25		
R631	Resistor	3.9k R25		
R632	Resistor	10k R25		
R633	Resistor	47 R25		
R634	Resistor	470 R25		
R635	Resistor	470 R25		
R636	Resistor	560 R25		
R637	Resistor	47 R25		
R638	Resistor	100 R25 680 R25		
R639	Resistor	680 R25 4.7k R10		
R640 R641	Resistor Resistor	680 R25		
R642	Resistor	33 R25		
R643	Resistor	220 R25		
R644	Resistor	33 R25		
R645	Resistor	8.2 R25		
R646	Resistor	8.2 R25		
R647	Resistor	150 R25		
R648	Resistor	100 R25		
R649	Resistor	100k R10		
R650	Resistor	100k R10		
R651	Resistor	10k R25		
R652	Resistor	68 R25		
R653	Resistor	68 R25		
R654	Resistor	220 R25		
R655	Resistor	220 R25		
R656 R657	Resistor Resistor	390 R25 100 R25		
R658	Thermistor	23D29		
R659	Resistor	390 R25		
R660	Resistor	470 R25		
R661	Thermistor	33D28		
R662	Resistor	560 R25		
R663	Resistor	1k R25		
R664	Resistor	100 R25		
R665	Resistor	39 R25		
R666	Resistor	820 R25		
R667	Resistor	4.7k R25		
R668	Resistor	4.7k R25		
R669	Resistor	22 R25		
R670	Resistor	470 R25 12 R25		
R671	Resistor	12 R25 470 R25		
R672 R673	Resistor Resistor	100 R25		
R674	Resistor	100 R25		
R675	Resistor	100 R25		
R676	Resistor	100 R25		
R677	Resistor	100 R25		

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REF. NO.	DESCRIPTION	PART NO.		
R678	Resistor	100 R25		
R679	Resistor	100 R25		
R680	Resistor	470 R25		
R681	Resistor	2.2k R25		
R682	Resistor	33k R25		
R683	Resistor	12k R25		
R684	Trimmer	RHB0C1431A 10k		
R685	Resistor	10k R25		
R686	Resistor	10k R25		
R687	Resistor	10k R25		
R688	Resistor	10k R25		
R689	Resistor	10k R25		
R690	Resistor	10k R25		
R691	Resistor	10k R25		
R692	Resistor	1M R25		
R693	Resistor	220 R25		
R694	Resistor	100k R25		
R696	Resistor	33k ELR25		
C601	Ceramic	0.0047 50V		
C602	Electrolytic	4.7 50V		
C603	Ceramic	0.0047 50V		
C604	Electrolytic	10 16V		
C605	Ceramic	0.0047 50V		
C606	Barrier Lay	0.047 25V		
C607	Electrolytic	4.7 50V		
C608	Array	B8ZC0111N-32N		
		0.0082×7		
C609	Array	B8ZC0111N-32N		
		0.0082 × 7		
C610	Barrier Lay	0.047 25V		
C611	Barrier Lay	0.047 25V		
C612	Ceramic	0.0047 50V		
C613	Ceramic	0.0047 50V		
C614	Ceramic	100P 50V		
C615	Ceramic	0.0047 50V		
C616 C617	Electrolytic	10 16V 4.7 50V		
C617	Electrolytic Electrolytic	10 16V		
C619	Ceramic	0.0047 50V		
C620	Barrier Lay	RAU06SA 681K		
0020	Builloi Luy	50V 680P		
C621	Barrier Lay	RAU06SA 681K		
	,	50V 680P		
C622	Ceramic	0.0047 50V		
C623	Ceramic	8P 50V		
C624	Ceramic	8P 50V		
C625	Ceramic	0.0047 50V		
C626	Ceramic	0.0047 50V		
C627	Ceramic	0.0047 50V		
C628	Ceramic	0.001 50V		
C629	Mylar	0.01 50V		
C630	Cylindrical	UP125B 102K 0.001		
C631	Ceramic	3P 50V		
C632	Ceramic	8P 50V		
C633	Ceramic	8P 50V		
C634	Barrier Lay	0.1 16V		
C635 C636	Barrier Lay	0.1 16V 0.1 16V		
C636	Barrier Lay Barrier Lay	0.1 16V 0.1 16V		
C637	Ceramic	100P 50V		
C639	Ceramic	100F 50V		
C640	Ceramic	150P 50V		

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REF. NO.	DESCRIPTION	PART NO.
C641	Ceramic	30P 50V
C642	Barrier Lay	0.047 25V
C643	Ceramic	0.047 25V 0.0047 50V
C644	Barrier Lay	0.0047 30V 0.047 25V
C645	Barrier Lay	0.047 25V 0.047 25V
C646	Ceramic	0.047 25V 0.0047 50V
	Electrolytic	2.2 50V
C647 C648	Ceramic	39P 50V
C649	Ceramic	220P 50V
C650	Ceramic	39P 50V
C651	Ceramic	0.001 50V
C652	Ceramic	3P 50V
C653	Ceramic	5P 50V
C654	Ceramic	15P 50V
C655	Ceramic	1.5P 50V
C656	Ceramic	3P 50V
C657	Ceramic	0.0047 50V
C658	Ceramic	3P 50V
C660	Barrier Lay	0.1 16V
C661	Barrier Lay	0.1 16V
C662	Barrier Lay	0.1 16V
C663	Barrier Lay	0.047 25V
C664	Ceramic	5P 50V
C665	Ceramic	1.5P 50V
C666	Ceramic	22P 50V
C667	Ceramic	4P 50V
C668	Ceramic	5P 50V
C669	Barrier Lay	0.1 16V
C670	Ceramic	0.0047 50V
C671	Barrier Lay	0.1 16V
C672	Barrier Lay	0.1 16V
C673	Barrier Lay	UAT04V 152K
0010	Danner Lay	50V 0.0015
C674	Ceramic	0.0047 50V
C675	Electrolytic	2.2 50V
C676	Ceramic	330P 50V
C677	Barrier Lay	UAT04V 222K
		50V 0.0022
C678	Barrier Lay	UAT04V 222K
	,	50V 0.0022
C679	Ceramic	330P 50V
C680	Barrier Lay	UAT06V 822K
		50V 0.0082
C681	Ceramic	150P 50V
C682	Barrier Lay	UAT04V 122K
		50V 0.0012
C683	Ceramic	200P 50V
C684	Ceramic	180P 50V
C685	Ceramic	24P 50V
C686	Ceramic	200P 50V
C687	Barrier Lay	0.047 25V
C688	Barrier Lay	0.047 25V
C689	Ceramic	180P 50V
C690	Barrier Lay	UAT04V 152K
		50V 0.0015
C691	Ceramic	270P 50V
C692	Ceramic	220P 50V
C693	Ceramic	39P 50V
C694	Ceramic	300P 50V
C695	Barrier Lay	0.047 25V
C696	Barrier Lay	0.047 25V
C697	Ceramic	270P 50V
C698	Barrier Lay	UAT04V 222K
		50V 0.0022

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REF. NO.	DESCRIPTION	PART NO.			
C699	Ceramic	330P 50V			
C700	Ceramic	300P 50V			
C701	Ceramic	47P 50V			
C702	Ceramic	390P 50V			
C703	Barrier Lay	0.047 25V			
C704	Barrier Lay	0.047 25V			
C705	Ceramic	330P 50V			
C706	Barrier Lay	UAT05V 272K 50V 0.0027			
C707	Ceramic	DD109SL471J50V02 470P			
C708	Ceramic	330P 50V			
C709	Ceramic	56P 50V			
C710	Ceramic	DD109SL471J50V02 470P			
C711	Barrier Lay	0.047 25V			
C712	Barrier Lay	0.047 25V			
C713	Ceramic	DD109SL471J50V02 470P			
C714	Barrier Lay	UAT05V 392K 50V 0.0039			
C715	Barrier Lay	RAU06SA 681K 50V 680P			
C716	Ceramic	DD109SL471J50V02 470P			
C717	Ceramic	100P 50V			
C718	Barrier Lay	RAU06SA 561K 50V 560P			
C719	Barrier Lay	0.047 25V			
C720	Barrier Lay	0.047 25V			
C721	Barrier Lay	UAT04V 102K			
		50V 0.001			
C722	Barrier Lay	UAT06V 682K 50V 0.0068			
C723	Barrier Lay	UAT04V 152K 50V 0.0015			
C724	Barrier Lay	RAU06SA 561K 50V 560P			
C725	Ceramic	120P 50V			
C726	Barrier Lay	RAU08SA 821K 50V 820P			
C727	Barrier Lay	0.047 25V			
C728	Barrier Lay	0.047 25V			
C729	Barrier Lay	0.1 16V			
C730	Barrier Lay	UAT04V 102K 50V 0.001			
C731	Ceramic	200P 50V			
C732	Barrier Lay	UAT04V 152K 50V 0.0015			
C733	Barrier	0.1 16V			
C734	Barrier	0.1 16V			
C735	Barrier Lay	UAT04V 152K 50V 0.0015			
C737	Barrier Lay	UAT05V 472K 50V 0.0047			
C738	Barrier Lay	UAT04V 122K 50V 0.0012			
C739	Ceramic	220P 50V			
C740	Barrier Lay	UAT06V 103K 50V 0.01			
C741	Barrier Lay	UAT04V 182K 50V 0.0018			
C742	Ceramic	220P 50V			
C743	Ceramic	120P 50V			
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REF. NO.	DESCRIPTION	PART NO.
C744	Ceramic	6P 50V
C744 C745	Ceramic	0.0022 50V
-		0.0022 50V 0.001 50V
C746	Ceramic	•.••
C747	Ceramic	0.001 50V
C748	Ceramic	0.001 50V
C749	Ceramic	0.001 50V
C750	Ceramic	0.001 50V
C752	Barrier Lay	0.047 25V
J601	Connector	TL-25P-07-V1
J602	Connector	TL-25P-05-V1
J603	Connector	TMP-J01X-A2
J604	Connector	TL-25P-05-V1
J605	Connector	TMP-J01X-A2
J606	Connector	TMP-J01X-A2
0000	00111100101	
P601	Connector	(TMP-P01X-A1) W619
P602	Connector	(TMP-P01X-A1) W621
. 502		,
EP601	P.C.B	B-886C (42442)
2. 00.		,
W601	Wire	23/01/195/C21/C21
W602	Wire	23/02/140/C21/C21
W603	Wire	23/03/105/C21/C21
W604	Jumper	JPW-02A
W605	Jumper	JPW-02A
	•	JPW-02A
W606	Jumper	JPW-02A
W607	Jumper	* * * * * * * * * * * * * * * * * * * *
W608	Jumper	JPW-02A
W609	Jumper	JPW-02A
W610	Jumper	JPW-02A
W611	Jumper	JPW-02A
W612	Jumper	JPW-02A
W613	Jumper	JPW-02A
W614	Jumper	JPW-02A
W615	Jumper	JPW-02A
W616	Jumper	JPW-02A
W617	Jumper	JPW-02A
W618	Jumper	JPW-02A
W619	Wire	「61/99/150/C31/W15A
W620	Wire	L 08 A
W621	Wire	「61/99/150/C31/W18X
W622	Wire	L 08 X
W623	Jumper	JPW-02A
W625	Jumper	73/98/010/X98/X98

[PA UNIT]

Coli	REF. NO.	DESCRIPTION	PART NO.]	REF. NO.	DESCRIPTION	PART NO.
Q802	Q801	Transistor	2SC1971	1	L922	Coil	LR-151
Q809	Q802	Transistor	2SC3133	1	L923	Coil	LAL03NA 101K (100µ)
G804		Transistor			L924	Coil	FL9H 102K (1m)
Q805		i				1	
G806		1		1			
GB10		i					, , , ,
GB11)					, , ,
Gall		1		1			
Q881		}		1			
O921					1	1	
G922				1	====	J	
Q923				1			
Q924					R801	Resistor	82 R25
D801					3	{	
R804	1 3					1	
B801	QUEU	Hansistoi	2000402			ł	
DB01				l			
D802	D801	Diode	MV5	l	1		
D804 Diode MV5 R808 Resistor 47 ELR25				İ			
D807 Diode							
D808				1		}	
D872						į	
DB73							
D881							
D882				l			
D921					1		
D922 Diode 1N4002 R816 Resistor RSS1B2.2-J 2.2	1			1			
D923 Diode 1K60 R817 Resistor RSS1B2.2-J 2.2							
Diode							
R822 Resistor CRH200R-02J 4R7 4.7							
L801 Coil LR-142 R824 Resistor 150 R25	D924	Diode	1N4002				
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	L921	COII	LB4 H36K (0.36µ)		H92/	Hesistor	100 ELH25

[PA UNIT]

[PA ONIT] [PA ONIT					
REF. NO.	DESCRIPTION	PART NO.	REF. NO.		
R928	Resistor	47k ELR25	C875		
R929	Resistor	SRW5P56-P 56 5W	C876		
R930	Resistor	22k ELR25	C877		
R931	Resistor	22k ELR25	C878		
R932	Resistor	1k ELR25	C881		
R933	Surge Absorber		C882		
R934	Resistor	47k R25	C883		
			C884		
1		0.0047 5014	C885		
C801	Ceramic	0.0047 50V	C887		
C803 C804	Barrier Lay	0.1 16V 0.01 50V	C921 C922		
C804	Mylar Mylar	0.01 50V 0.01 50V	C923		
C806	Ceramic	DD109SL511J50V02	C924		
1 0000	Octamio	510P	C925		
C808	Monolithic	GR44CH682K 50V	C926		
5555		0.0068	C927		
C809	Monolithic	GR44CH682K 50V	C928		
:		0.0068	C929		
C810	Dip Mica	DM20C102J51CR 0.001	C930		
C811	Monolithic	GR43CH471K 50V 470P	C931		
C812	Monolithic	GR43CH471K 50V 470P	C932		
C813	Monolithic	GR44CH102K 50V 0.001	C933		
C814	Dip Mica	DM20C122J51CR 0.0012	C934		
C816	Dip Mica	DM20C472J51CR 0.0047	C935		
C817 C818	Barrier Lay Electrolytic	0.047 25V 1000 16V MS16	C936 C937		
C819	Monolithic	GR44Y5V684Z 25V 0.68	C938		
C820	Barrier Lay	0.047 25V	C939		
C821	Electrolytic	47 10V			
C822	Electrolytic	10 16V			
C823	Barrier Lay	0.047 25V	RL881		
C824	Barrier Lay	0.047 25V	RL921		
C825	Electrolytic	470 16V	RL922		
C826	Barrier Lay	0.047 25V			
C827	Electrolytic	10 16V	1070		
C828 C829	Barrier Lay Ceramic	0.047 25V 0.0047 50V	J876 J877		
C832	Barrier Lay	0.047 35V 0.047 25V	J881		
C834	Ceramic	330P 500V	J882		
C835	Ceramic	330P 500V	J883		
C836	Ceramic	33P 50V CH	J884		
C837	Barrier Lay	UAT04V 122K	J885		
		50V 0.0012	J886		
C838	Electrolytic	1000 6.3V TWSS	J887		
C839	Monolithic	GR43CH471K 50V 470P	J888		
C840 C841	Monolithic Monolithic	GR43CH471K 50V 470P GR44CH102K 50V 0.001	J921 J951		
C842	Ceramic	DD109SL471J50V02	J951 J952		
0042	Octainic	470P	J953		
C843	Electrolytic	100 10V			
C844	Barrier Lay	0.047 25V			
C845	Barrier Lay	0.047 25V	P801		
C846	Barrier Lay	0.047 25V	P802		
C847	Barrier Lay	0.047 25V	P883		
C848	Ceramic	0.0047 50V	P884		
C871	Feed Through	TF318-452E102GMV	P885		
0070	Eggd Through	0.001 TE219 4525102GMV	P886 P887		
C872	Feed Through	TF318-452E102GMV 0.001	P921		
C873	Feed Through	TF318-452E102GMV	P922		
55.5	, ood imough	0.001	P923		
C874	Feed Through	TF318-452E102GMV			
	Ŭ	0.001			
			L		

REF. NO.	DESCRIPTION	PART NO.
C875	Barrier Lay	0.047 25V
C876	Barrier Lay	0.047 25V
C877	Electrolytic	2200 16V
C878	Barrier Lay	0.047 25V
C881	Ceramic	0.0047 50V 0.0047 50V
C882 C883	Ceramic	0.0047 50V 0.0047 50V
C884	Ceramic Ceramic	0.0047 50V 0.0047 50V
C885	Ceramic	0.0047 50V
C887	Ceramic	0.0047 50V
C921	Ceramic	100P 50V
C922	Ceramic	150P 50V
C923	Barrier Lay	0.047 25V
C924	Ceramic	0.0047 50V
C925 C926	Barrier Lay Barrier Lay	0.047 25V 0.047 25V
C920 C927	Barrier Lay	0.047 25V 0.047 25V
C928	Electrolytic	10 16V
C929	Ceramic	10P 500V
C930	Ceramic	33P 50V
C931	Barrier Lay	0.047 25V
C932	Electrolytic	2.2 16V
C933	Ceramic	0.0047 50V DD112F473Z50V 0.047
C934 C935	Ceramic Ceramic	0.0047 50V
C936	Barrier Lay	0.0047 30V 0.047 25V
C937	Ceramic	0.001 50V
C938	Barrier Lay	0.047 25V
C939	Ceramic	0.001 50V
RL881 RL921 RL922 J876	Relay Relay Relay Connector	OMR-109 F FBR22D12-P UPM12912-Y LR-6
J877	Connector	1490R
J881	Connector	TL-25P-09-V1
J882	Connector	TL-25P-07-V1
J883	Connector	TL-25P-04-V1
J884	Connector	TL-25P-03-V1
J885 J886	Connector Connector	TLB-P05H-B1 TL-25P-03-V1
J887	Connector	TCS4680-01-1111
J888	Connector	TCS4670-01-1111
J921	Connector	FM-MDR MI
J951	Connector	TL-25P-04-V1
J952	Connector	HLJ4306-01-3000
J953	Connector	HLJ4306-01-3000
P801	Connector	(TMP-P01X-A1) W801
P802	Connector	(TMP-P01X-A1) W803
P883 P884	Connector Connector	TL-25H-04-B1 TL-25H-03-B1
P885	Connector	TL-25H-05-B1
P886	Connector	1261R3
P887	Connector	TL-25H-03-B1
P921	Connector	(TMP-P01X-A1) W923
P922	Connector	(TMP-P01X-A1) W927
P923	Connector	TL-25H-03-B1

[PA UNIT]

[PA UNIT]

REF. NO.	DESCRIPTION	PART NO.
F871	Fuse Holder	TFH-S30
F872	Fuse	5A
C004	Thermal auditah	OHD 90M
S801 S802	Thermal switch Thermal switch	
3002	Thermal Switch	OTID-TIOW
MF801	DC Motor	OA-D80BC12
EP801	P.C.B	B-1107B (42447)
EP802	P.C.B	B-1108B (43061)
EP803	P.C.B	B-1109A (43062)
EP804	P.C.B	B-1110A (42704)
44004	M	T 00/00/050/004 (N/40D
W801 W802	Wire Wire	C62/99/350/C31/W13D 08 D
W803	Wire	
W804	Wire	08 D
W805	Wire	23/03/400/C21/C01
W806	Wire	23/04/450/W04/C01
W808	Wire	23/02/165/W02/C01
W809 W810	Wire Wire	23/01/165/W02/C01 13/02/360/W06/W03
W811	Wire	36/00/310/W04/W06
W812	Wire	31/04/070/W07/W07
W813	Jumper	JPW-02A
W814	Jumper	JPW-02A
W815	Jumper	JPW-02A
W816 W817	Jumper Jumper	JPW-02A JPW-02A
W818	Wire	31/02/100/W04/W04
W819	Jumper	JPW-02A
W820	Wire	23/03/100/C21/W04
W823	Wire	72/98/010/X98/X98
W824 W825	Wire Wire	72/98/010/X98/X98 72/98/010/X98/X98
W826	Wire	72/98/010/X98/X98
W827	Wire	72/98/010/X98/X98
W828	Wire	72/98/010/X98/X98
W829	Wire	72/98/010/X98/X98
W830	Wire	72/98/010/X98/X98 72/98/010/X98/X98
W831 W832	Wire Wire	72/98/010/X98/X98 72/98/010/X98/X98
W833	Wire	72/98/010/X98/X98
W834	Wire	72/98/010/X98/X98
W835	Wire	73/98/070/X89/X98
W836	Jumper	JPW-02A
W837 W838	Wire Jumper	36/02/310/W03/W06 JPW-02A
W871	Wire	23/01/230/C22/C01
W872	Wire	23/02/230/C22/C01
W873	Wire	23/03/230/C22/C01
W874	Wire	23/04/230/C22/C01
W875 W881	Wire Wire	23/05/230/C22/C01 13/02/250/W02/A06
W881 W882	wire Wire	23/02/300/C21/C01
W883	Wire	23/01/300/C21/C01
W884	Wire	IPS-1041-4
W885	Wire	13/00/050/W03/W03
W887 W888	Wire Wire	36/02/085/W03/W04 13/01/060/W04/A08
***************************************	AAIIC	TOTO TOUGHT VON TOUCH

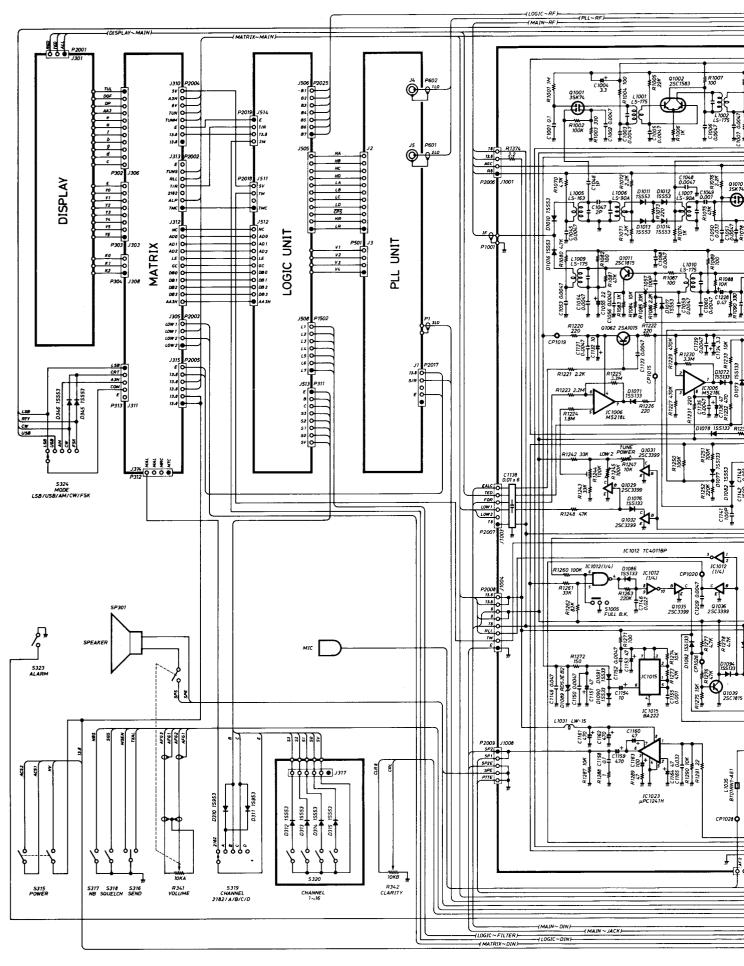
[PA UN	IT]	
REF. NO.	DESCRIPTION	PART NO.
W889	Wire	13/02/060/W04/A08 13/03/060/W04/A08
W890	Wire	13/03/060/W04/A08
W891 W892	Wire Wire	13/09/250/B03/A06
W893	Wire	13/09/250/B03/A06
W894	Wire	13/03/180/W03/W03
W895	Wire	13/03/070/W02/A06
W896	Wire	35/02/060/B03/W03
W897	Wire	35/02/060/B03/W03
W898	Wire	35/00/050/B03/W03
W899	Wire	35/00/050/B03/W03
W900	Wire	13/00/150/W03/W03 JPW-02H
W921 W922	Jumper Wire	23/03/350/C21/C01
W923	Wire	□ 62/99/400/C31/W13D
W924	Wire	08 D
W925	Wire	23/02/350/C21/C01
W926	Wire	23/01/350/C21/C01
W927	Wire	62/99/150/C31/W13D
W928	Wire	L 08 D
W929	Jumper	JPW-02H
		1

[G UNIT]

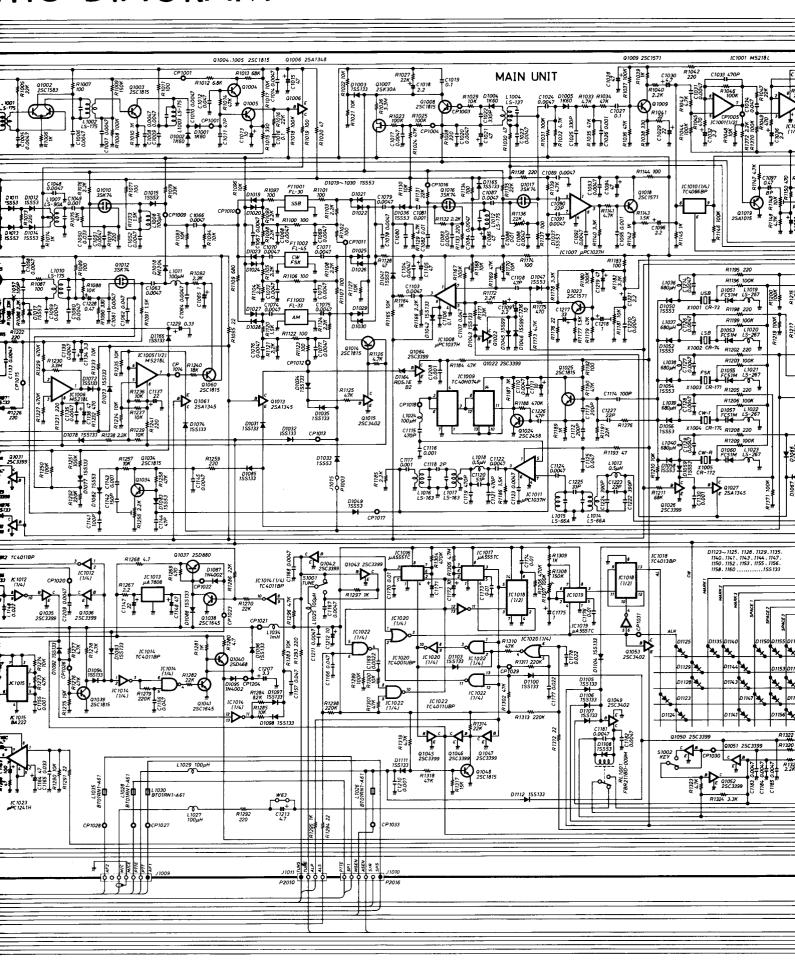
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W2001	Wire	23/05/290/C01/C01
W2002	Wire	23/02/290/C01/C01
W2003	Wire	23/03/290/C01/C01
W2004	Wire	23/04/290/C01/C01
W2005	Wire	23/07/630/C01/C01
W2006	Wire	23/06/630/C01/C01
W2007	Wire	23/08/630/C01/C01
W2008	Wire	[51/00/310/C01/W12A
W2009	Wire	L 08 A
W2010	Wire	23/02/630/C01/C01
W2011	Wire	23/01/630/C01/C01
W2012	Wire	51/02/310/C01/W12A
W2013	Wire	L 08 A
W2014	Wire	23/04/680/C01/C01
W2015	Wire	23/03/680/C01/C01
W2016	Wire	23/02/680/C01/C01
W2017	Wire	23/01/475/C01/W02
W2018	Wire	23/02/335/C01/W02
W2019	Wire	23/01/335/C01/W02
W2020	Wire	23/08/370/C01/C01
W2021	Wire	23/00/335/C01/W02
W2022	Wire	23/09/335/C01/W02
W2023	Wire	23/07/335/C01/W02
W2024	Wire	23/06/370/C01/C01
W2025	Wire	23/02/235/C01/W02
W2026	Wire	23/06/240/C01/C01
W2027	Wire	23/09/220/C01/C01
W2028	Wire	23/07/530/C01/C01
W2029	Wire	22/09/190/C01/W02
W2030	Wire	23/01/215/C01/C01
W2031 W2032	Wire Wire	23/05/520/C01/C01 23/08/245/C01/W02
W2032 W2033	Wire	22/09/310/C01/C01
W2033 W2034	Wire	23/00/310/C01/C01
W2035	Wire	23/09/470/C01/C01
W2036	Wire	23/04/500/C01/C01
W2037	Wire	23/05/710/C01/C01
W2038	Wire	23/07/395/C01/C01
W2039	Wire	23/08/715/C01/C01
W2040	Wire	23/02/400/C01/C01
W2041	Wire	23/02/400/C01/C01
W2043	Wire	23/06/480/C01/C01
W2044	Wire	23/08/480/C01/C01
W2045	Wire	23/03/635/C01/C01
W2046	Wire	23/02/305/C01/C01
W2047	Wire	23/00/635/C01/C01
W2049	Wire	22/00/450/C01/W02
W2050	Wire	22/00/730/C01/C01
W2052	Wire	22/09/730/C01/C01
W2053	Wire	23/05/370/C01/C01
W2054	Wire	23/06/575/C01/C01
W2055	Wire	23/02/370/C01/C01
W2056	Wire	23/03/635/C01/W02
W2057	Wire	23/01/240/C01/C01
W2058	Wire	23/03/240/C01/C01
W2059	Wire	23/04/585/C01/C01
W2060 W2061	Wire Wire	23/05/280/C01/W02 23/06/330/C01/W02
W2062	Wire	23/06/330/C01/W02 23/07/395/C01/C01
W2062 W2063	Wire	23/06/395/C01/C01
W2063 W2064	Wire	23/05/395/C01/C01 23/05/395/C01/C01
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W2066	Wire	23/03/395/C01/C01
W2067	Wire	23/02/395/C01/C01

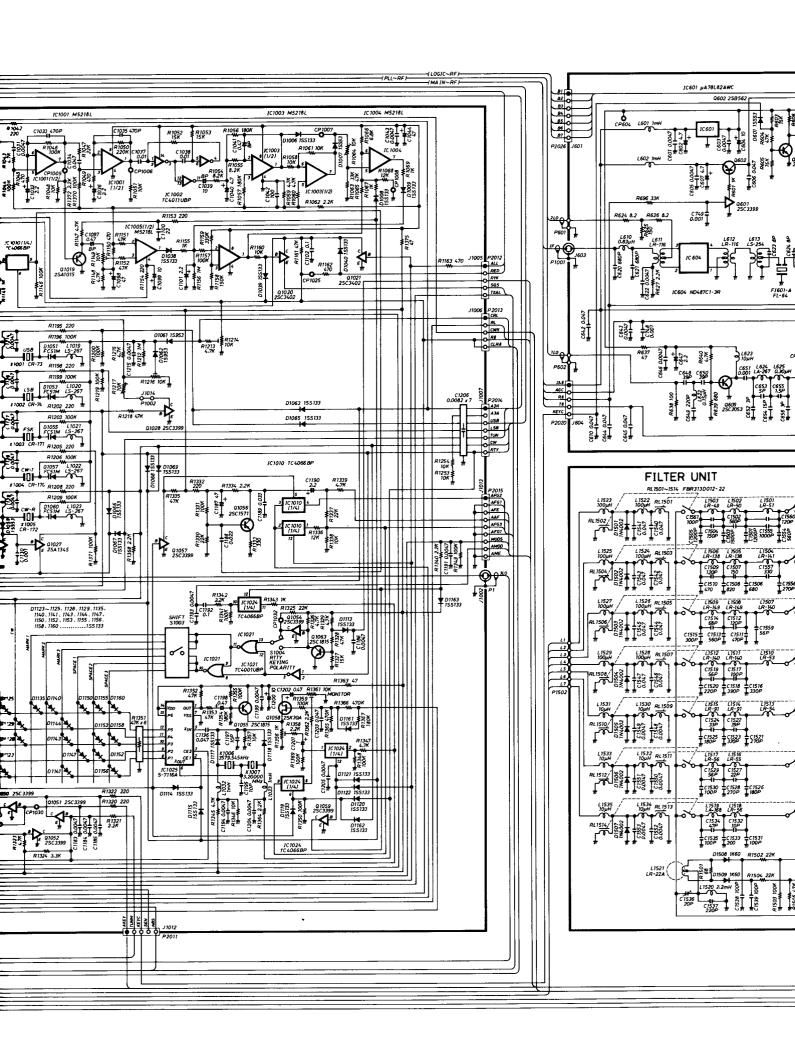
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W2069 Wire 23/00/365/C01/C01 W2070 Wire 23/03/225/C01/C01 W2071 Wire 23/02/365/C01/C01 W2072 Wire 23/01/710/C01/C01 W2073 Wire 23/01/160/C01/C01 W2074 Wire 23/05/300/C01/C01 W2075 Wire 23/02/220/C01/C01 W2076 Wire 23/00/220/C01/C01 W2077 Wire 22/02/165/C01/W02 W2078 Wire 22/02/165/C01/W02 W2079 Wire 23/09/725/C01/C01 W2080 Wire 23/07/725/C01/C01 W2083 Wire 23/00/720/C01/C01

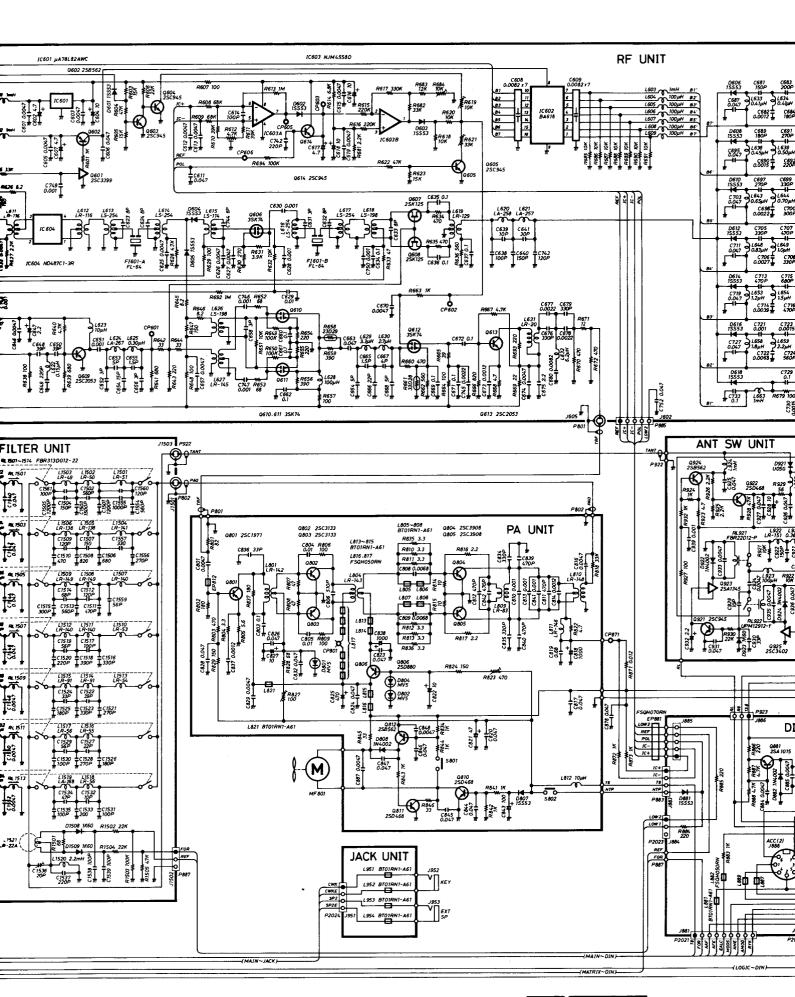
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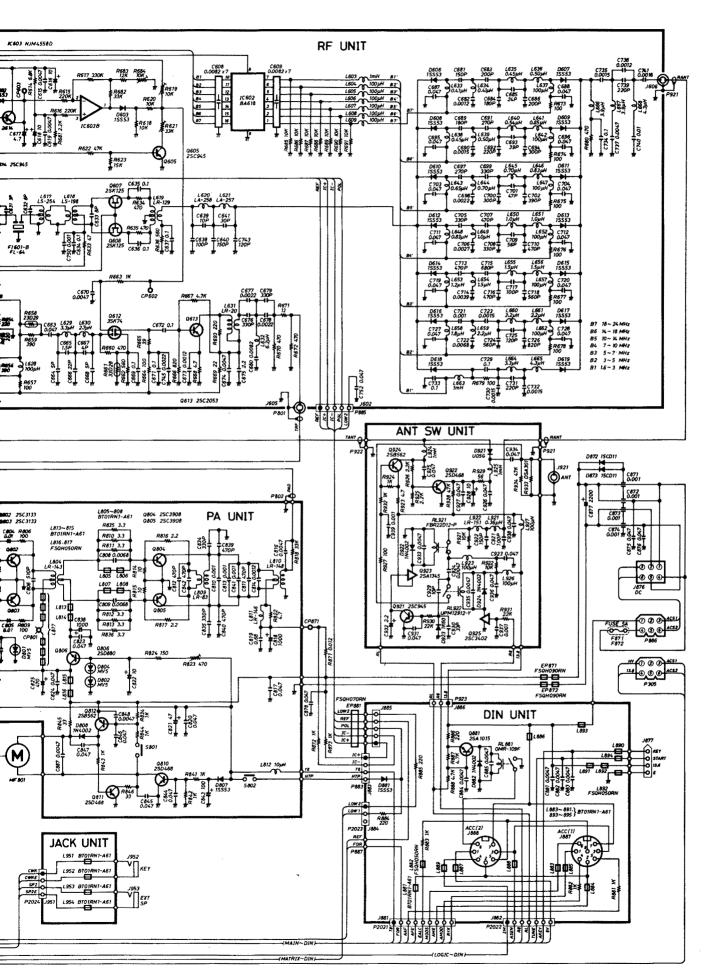


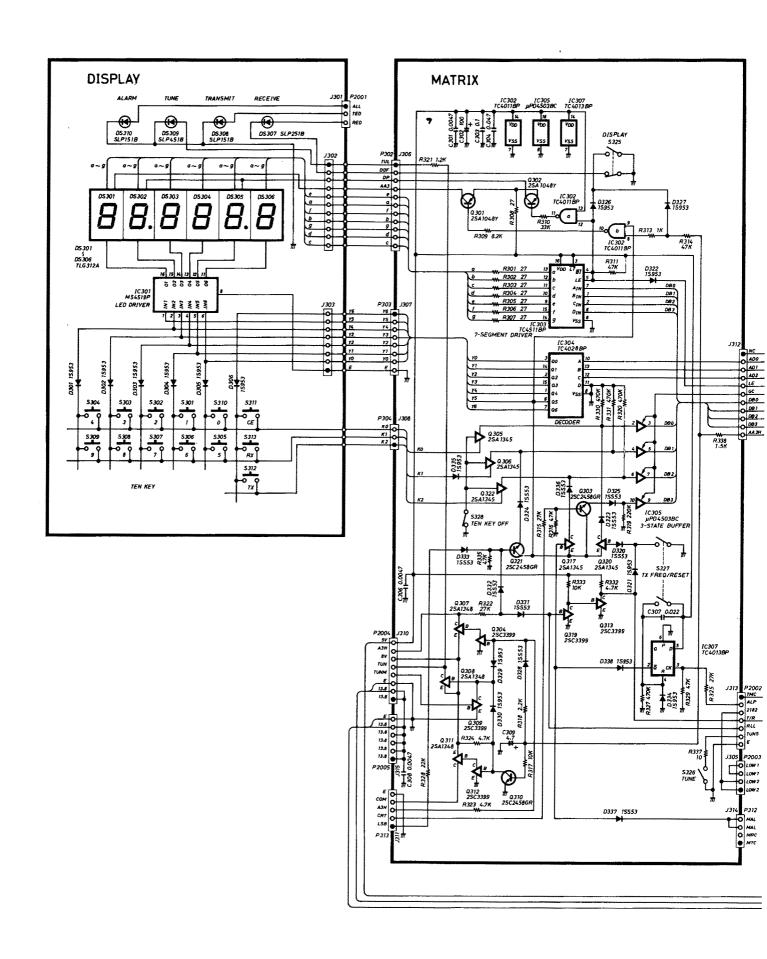
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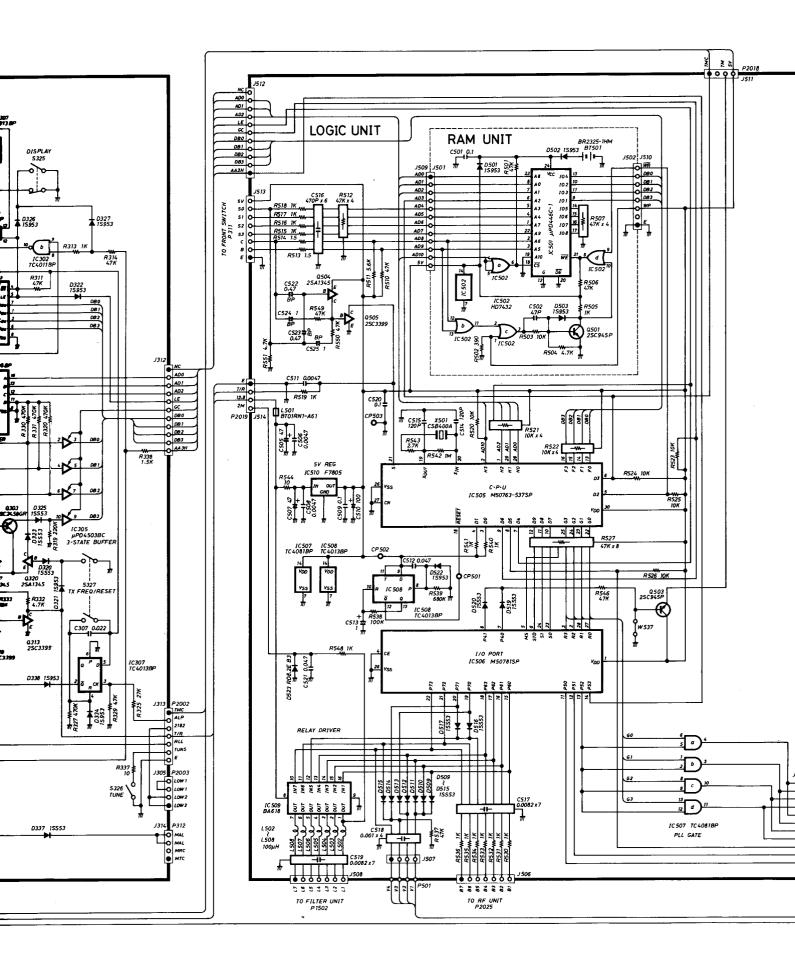


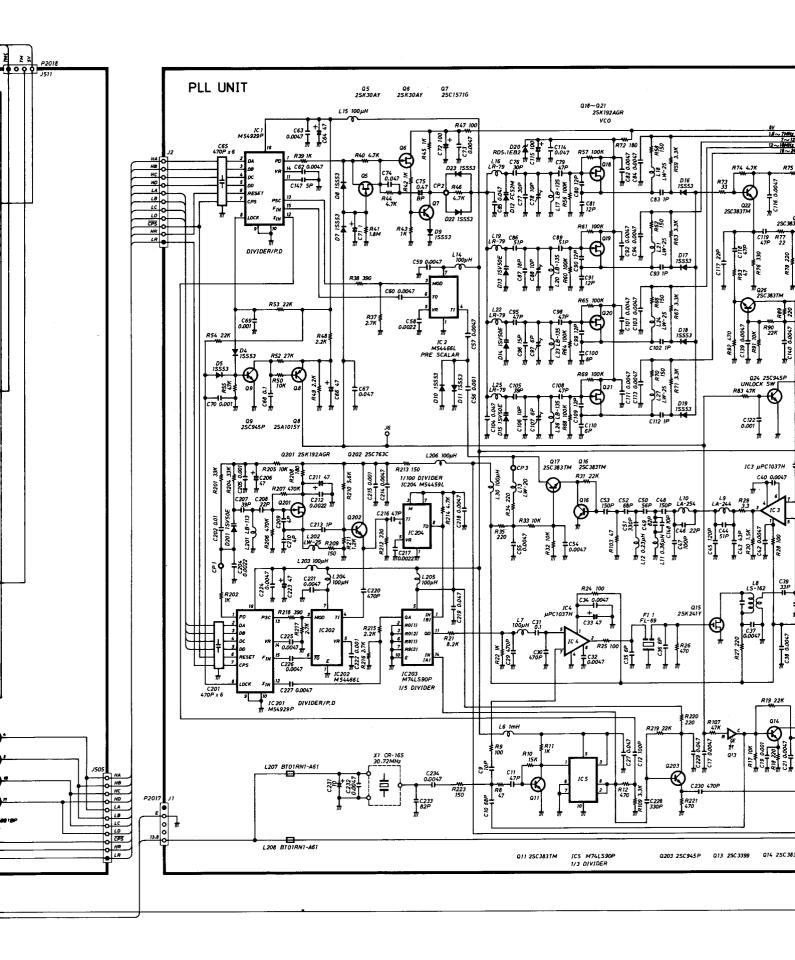


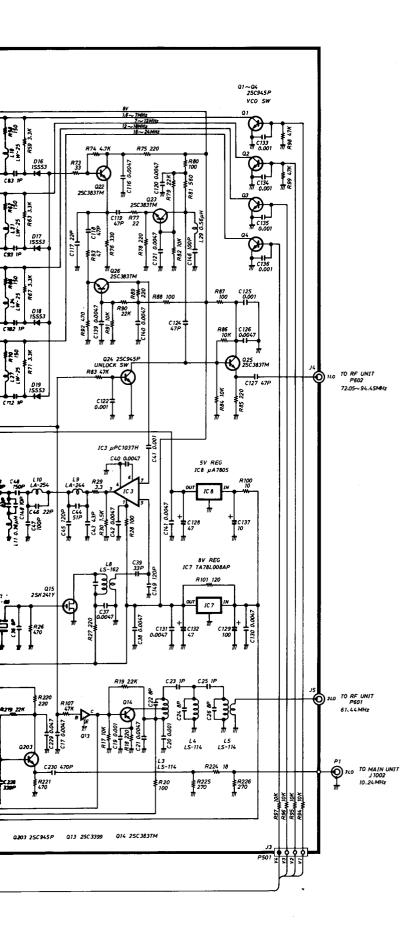














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