

REMOTE CONTROLLER/LOCATOR

RC-D24

SERVICE MANUAL



RC-D24

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: This presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!


The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ WARNING

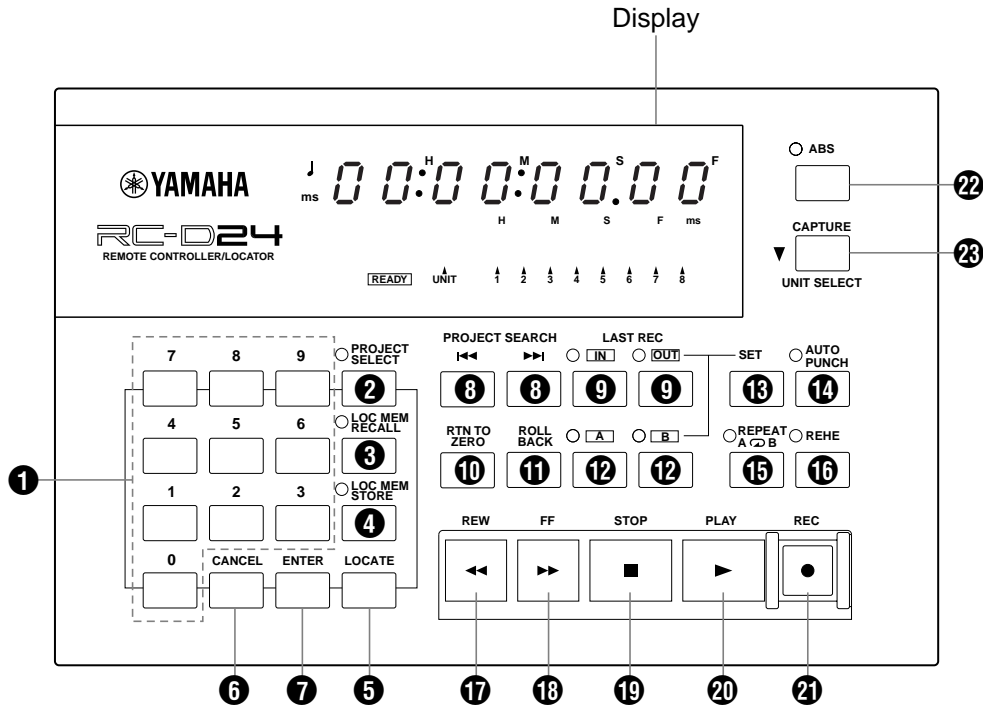
Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

■ SPECIFICATIONS

Repeat playback		A–B Repeat
Punch in/out		Auto, Manual, Rehearsal
Auto Punch multi-take recording		Up to 99 takes
Locate	Project Select/Search	
	Locate point set/search	LAST REC IN, LAST REC OUT, A, B
	Locate memory store/recall	99
	Return to zero	
	Roll back	
Display	Counter	8 x 7-segment LED Time display: Hours, minutes, seconds, frames
	Message area	12 x 7-segment LED Time display: Hours, minutes, seconds, frames, sub-frames
Others	ABS/REL	
	CAPTURE	
	POWER SW	
	15-pin D-sub connector	
Mounting screws	Speaker bolts	M5 nut x2
	Mic stand	W3/8
Supply voltage		12 V DC
Power consumption		10 W
Dimensions (W x H x D)		214 x 50 x 138 mm (8.4 x 2 x 5.4 inches)
Weight		1 kg (2.2 lbs)
Free-air operating temperature range		0 °C to 40 °C (32 °F to 104 °F)
Relative humidity		10 %–95 %
Accessories		15-pin D-Sub remote cable (5 m)

■ PANEL LAYOUT

● Control Surface



Keypad Section

- 1 Keypad buttons
- 2 PROJECT SELECT button & indicator
- 3 LOC MEM RECALL button & indicator
- 4 LOC MEM STORE button & indicator
- 5 LOCATE button
- 6 CANCEL button
- 7 ENTER button

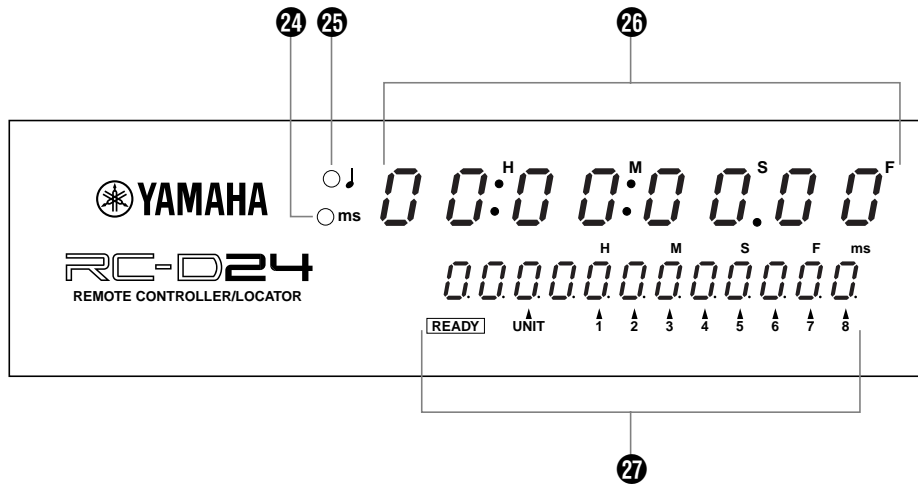
Transport Controls Section

- 8 PROJECT SEARCH buttons
- 9 LAST REC IN & OUT buttons & indicators
- 10 RTN TO ZERO button
- 11 ROLL BACK button
- 12 A & B buttons & indicators
- 13 SET button
- 14 AUTO PUNCH button & indicator
- 15 REPEAT button & indicator
- 16 REHE button & indicator
- 17 REW button
- 18 FF button
- 19 STOP button
- 20 PLAY button
- 21 REC button

Other Buttons Section

- 22 ABS button & indicator
- 23 CAPTURE/UNIT SELECT button

● Display



Display Section

- 24 ms indicator
- 25 Quarter-note indicator
- 26 Counter
- 27 Message area

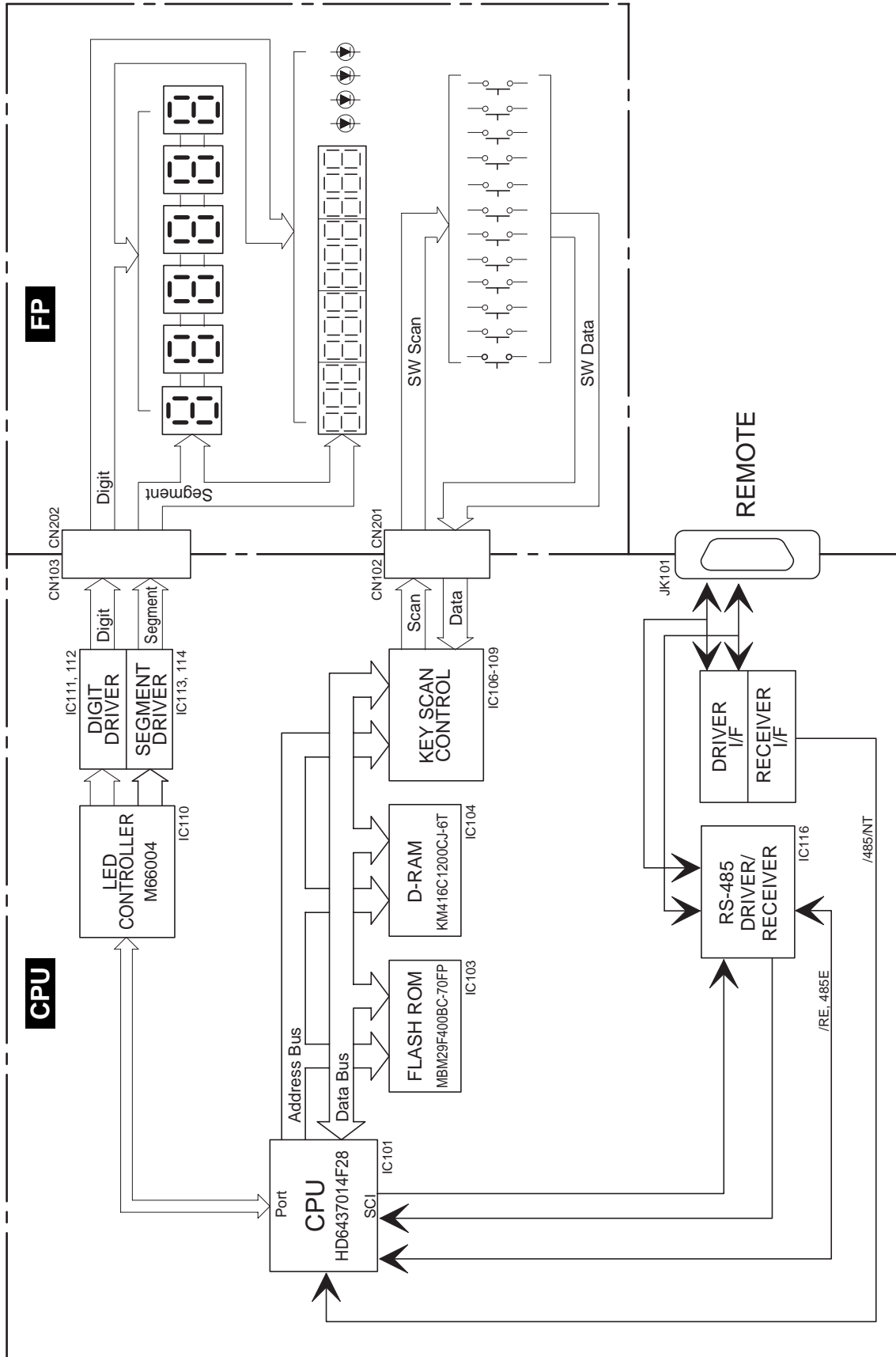
● Rear Panel



Rear Panel Section

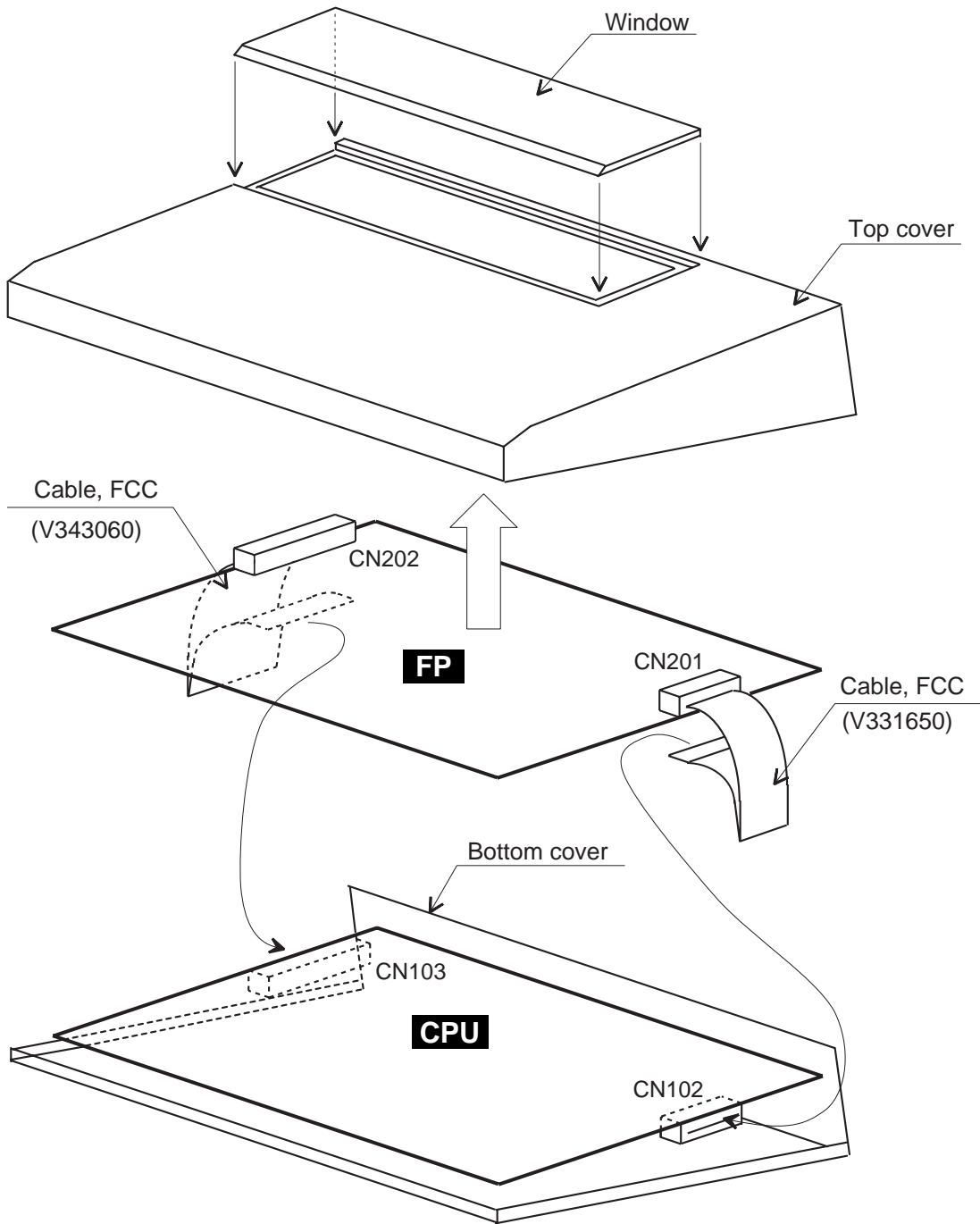
- 28 POWER switch
- 29 REMOTE connector

■ BLOCK DIAGRAM



KEC-92373

■ CIRCUIT BOARD LAYOUT



■ DISASSEMBLY PROCEDURE

1. Bottom Cover Assembly

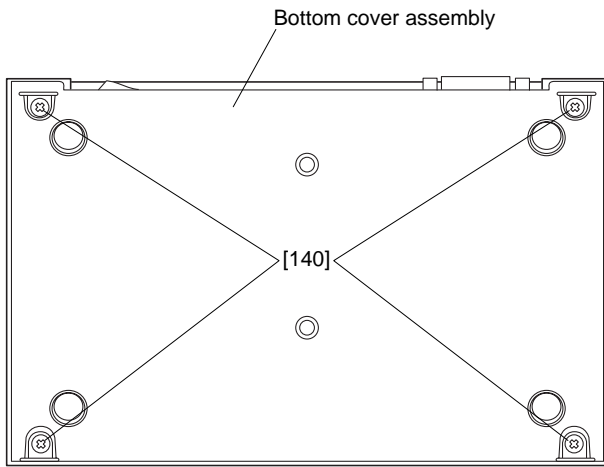
1-1 Remove the four (4) screws marked [140]. The bottom cover assembly can then be removed. (Fig. 1)

2. CPU Circuit Board

2-1 Remove the bottom cover assembly. (See Procedure 1.)
 2-2 Remove the two (2) screws marked [70], the three (3) screws marked [100] and the two (2) jack sockets marked [150]. The CPU circuit board can then be removed. (Fig. 2)

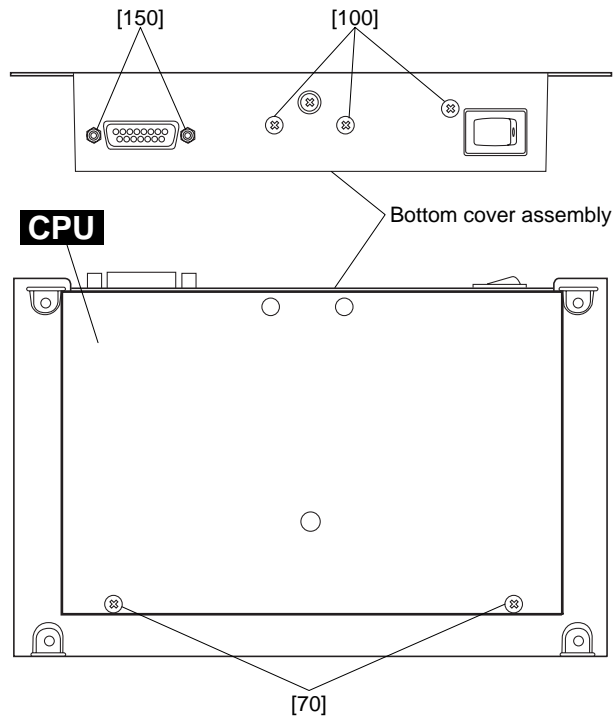
3. FP Circuit Board

3-1 Remove the bottom cover assembly. (See Procedure 1.)
 3-2 Remove the six screws (6) marked [40]. The FP circuit board can then be removed. (Fig. 3)



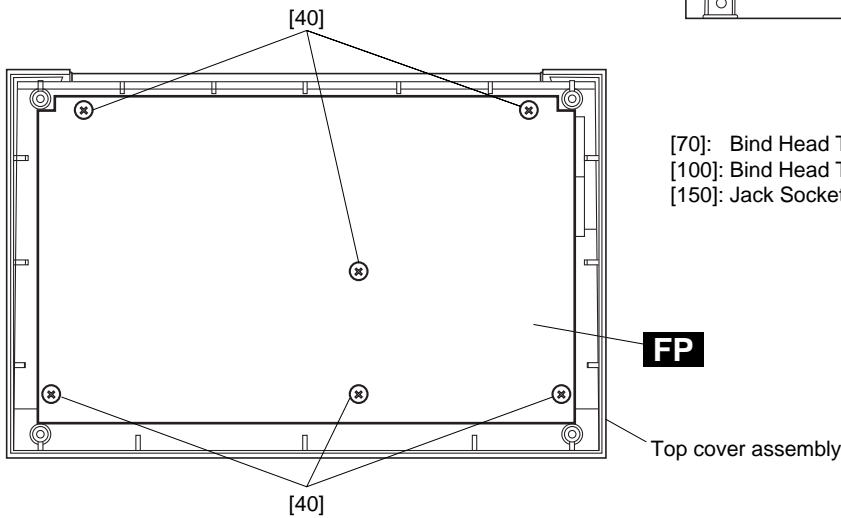
[140]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (VN413300)

Fig. 1



[70]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)
 [100]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (VN413300)
 [150]: Jack Socket 17L-003A3 (VT362500)

Fig. 2



[40]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

Fig. 3

LSI PIN DESCRIPTION

● HD6417014F28 (XU147A00) CPU

CPU: IC101

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PE14	O	Port E	57	D11	I/O	Data bus
2	PE15	O	Port E	58	D10	I/O	
3	VSS	I	Ground	59	D9	I/O	
4	A0	O	Address bus	60	D8	I/O	Data bus
5	A1	O					
6	A2	O					
7	A3	O					
8	A4	O					
9	A5	O					
10	A6	O					
11	A7	O					
12	A8	O					
13	A9	O					
14	A10	O					
15	A11	O					
16	A12	O					
17	A13	O					
18	A14	O					
19	A15	O					
20	A16	O					
21	VCC	I	Power supply	76	NMI	I	Non-maskable interrupt request
22	A17	O	Address bus	77	VCC	I	Power supply
23	VSS	I	Ground	78	MD1	I	Mode control
24	/RAS	O	Row address strobe	79	MD0	I	Mode control
25	/CASL	O	Column address strobe (low)	80	PLLVCC	I	PLL Power supply
26	/CASH	O	Column address strobe (high)	81	PLLCAP	I	PLL capacitor
27	VSS	O	Ground	82	PLLVSS	I	PLL Ground
28	RDWR	O	DRAM read/write	83	PA15	O	Port A
29	A18	O	Address bus	84	/RES	I	Reset
30	A19	O					
31	A20	O					
32	PB9	O		Port B	85	PE0	I
33	VSS	I	Ground	86	PE1	I	
34	/RD	O	Read	87	PE2	I	
35	/WDTOVF	O	Watch dog timer overflow	88	PE3	I	Ground
36	/WRH	O	High write	89	PE4	I	
37	VCC	I	Power supply	90	VSS	I	
38	/WRL	O	Low write	91	AN0	I	Analog input
39	VSS	I	Ground	92	AN1	I	
40	/CS1	O	Chip select	93	AN2	I	
41	/CS0	O	Chip select	94	AN3	I	
42	PA9	O	Port A	95	AN4	I	Analog ground
43	/IRQ2	I	Interrupt request	96	AN5	I	
44	/CS3	O	Chip select	97	AVSS	I	
45	/CS2	O	Chip select	98	AN6	I	
46	/IRQ1	I	Interrupt request	99	AN7	I	Analog input
47	TXD	O	Data transmission	100	AVCC	I	Power supply
48	RXD	I	Data reception	101	VSS	I	Ground
49	/IRQ0	I	Interrupt request	102	PE5	O	Port E
50	PA1	O	Port A	103	VCC	I	Power supply
51	PA0	I	Port A	104	PE6	O	Port E
52	D15	I/O	Data bus	105	PE7	O	
53	D14	I/O					
54	D13	I/O					
55	VSS	I		Ground	106	PE8	O
56	D12	I/O	Data bus	107	PE9	O	Port E
				108	PE10	O	
				109	VSS	I	
				110	PE11	O	Port E
				111	PE12	O	
				112	PE13	O	

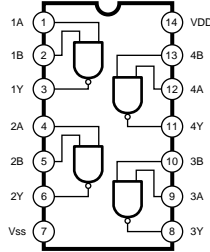
● M66004FP (XT828A00) Display Driver

CPU: IC110

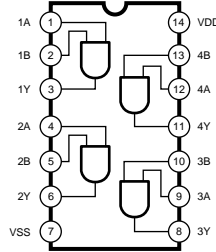
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	DIG11	O	Digital output	33	SEG26	O	Segment output	
2	DIG10	O		34	SEG25	O		
3	DIG09	O		35	SEG24	O		
4	DIG08	O		36	SEG23	O		
5	DIG07	O		37	SEG22	O		
6	DIG06	O		38	SEG21	O		
7	DIG05	O		39	SEG20	O		
8	DIG04	O		40	SEG19	O		
9	DIG03	O		41	SEG18	O		
10	DIG02	O		42	SEG17	O		
11	DIG01	O		43	SEG16	O		
12	DIG00	O		44	SEG15	O		
13	/RESET	I	Reset	45	SEG14	O	Segment output	
14	/CS	I	Chip selection	46	SEG13	O		
15	SCK	I	Sift clock	47	SEG12	O		
16	SDATA	I	Serial data	48	SEG11	O		
17	P1	O	Output port 1	49	SEG10	O		
18	P0	O	Output port 0	50	SEG09	O		
19	VCC1	-	Power supply	51	SEG08	O		
20	XOUT	O	Clock out	52	SEG07	O		
21	XIN	I	Clock in	53	SEG06	O		
22	VSS	-	Ground	54	SEG05	O		
23	SEG35	O	Segment output	55	SEG04	O		Power Supply
24	SEG34	O		56	SEG03	O		
25	SEG33	O		57	SEG02	O		
26	SEG32	O		58	SEG01	O		
27	SEG31	O		59	SEG00	O		
28	SEG30	O		60	VCC2	O		
29	SEG29	O		61	DIG15	O	Digital output	
30	SEG28	O		62	DIG14	O		
31	SEG27	O		63	DIG13	O		
32	VP	-		(-) Power supply	64	DIG12		

IC BLOCK DIAGRAM

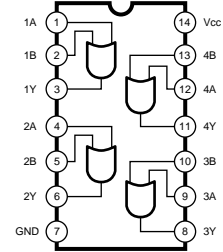
- **TC74HC00AF** (XD655A00)
Quad 2 Input NAND
CPU: IC120



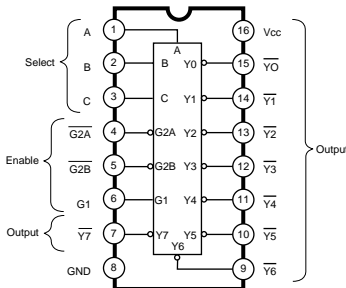
- **SN74HC08NSR** (XD831A00)
Quad 2 Input AND
CPU: IC118, 119



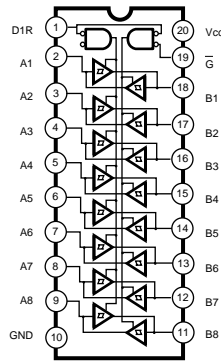
- **SN74HC32NSR** (XD833A00)
Quad 2 Input OR
CPU: IC105, 121



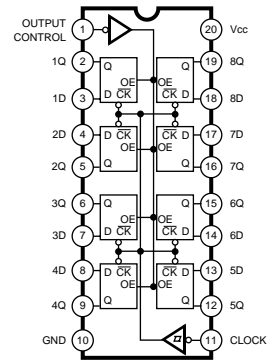
- **SN74HC138NSR** (XD835A00)
3 to 8 Demultiplexer
CPU: IC106, 108



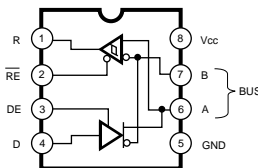
- **SN74HC245NSR** (XD838A00)
Octal 3-State Bus Transceiver
CPU: IC109



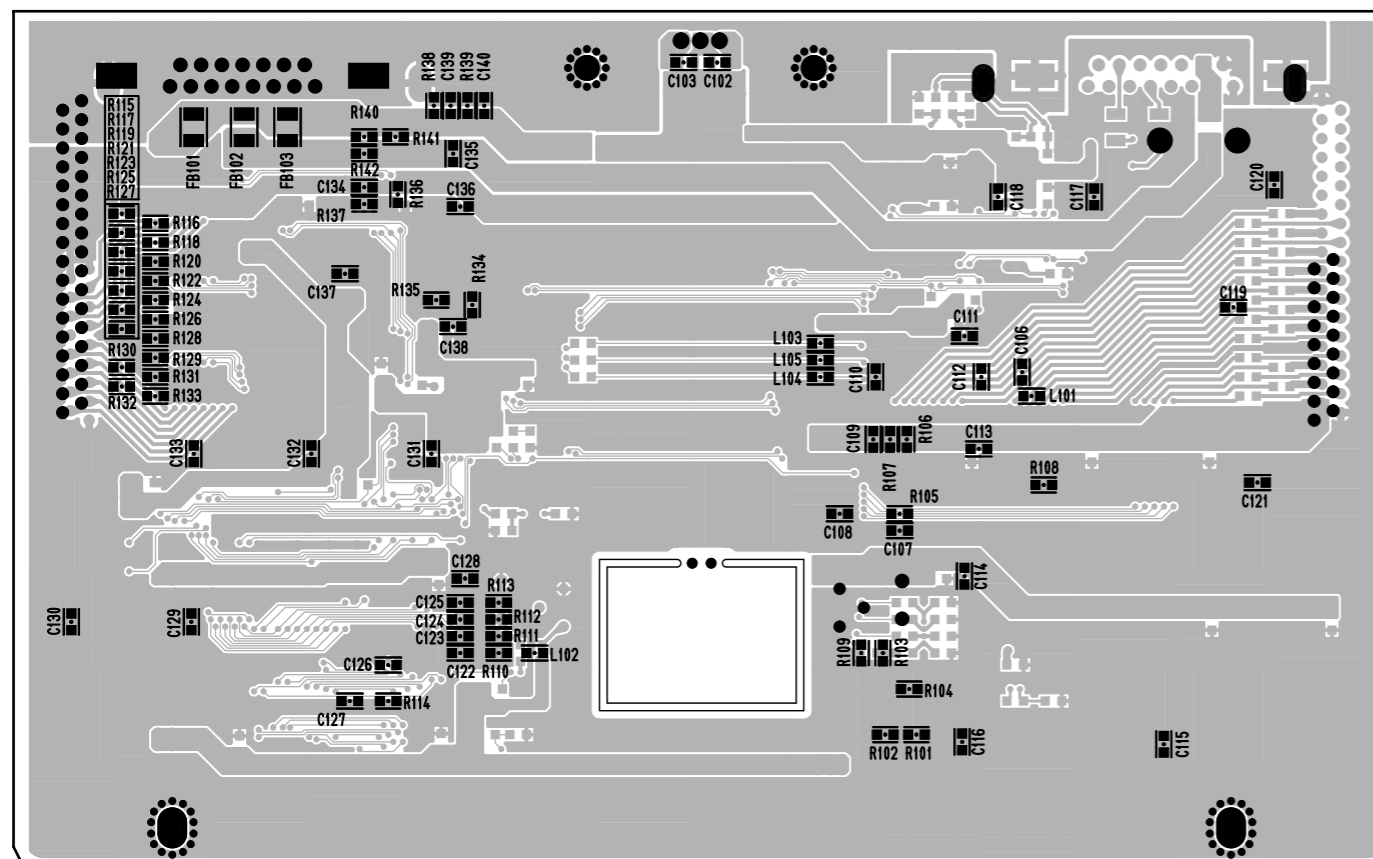
- **HD74HC374FPEL** (XL342A00)
Octal 3-State D-Type Flip-Flop
CPU: IC107



- **SN75176BPS** (XJ704A00)
Line Driver
CPU: IC116

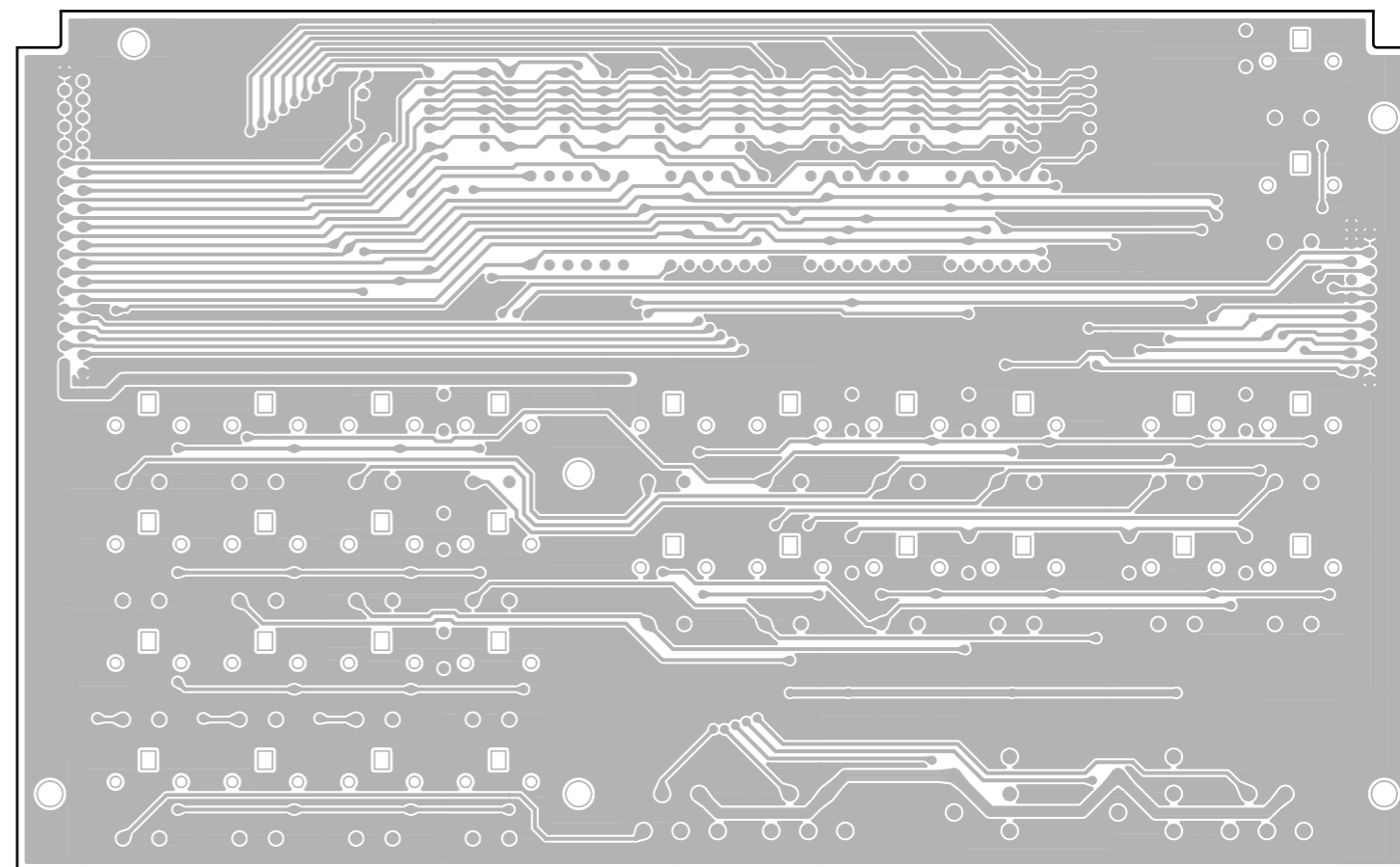


● CPU Circuit Board



Pattern side

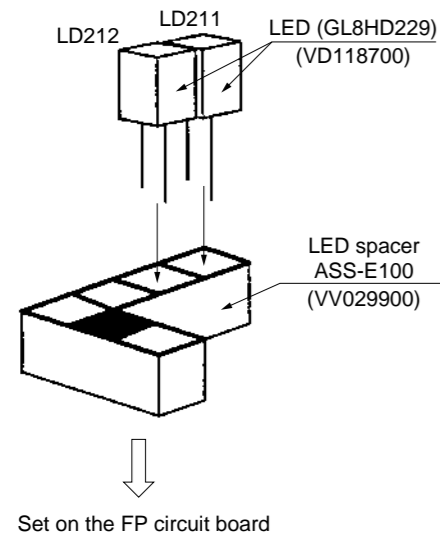
● FP Circuit Board



Pattern side

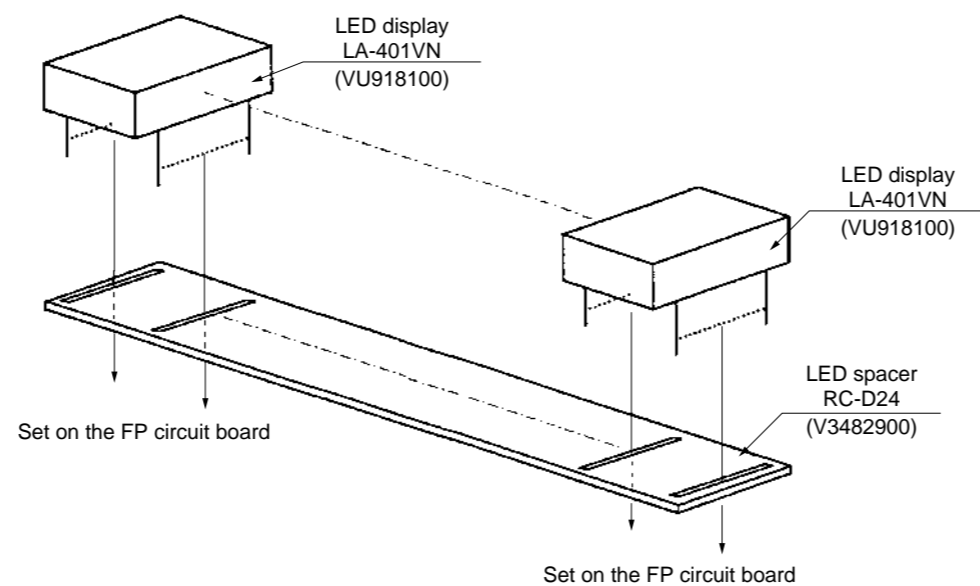
FP

● LD211, 212 Installation



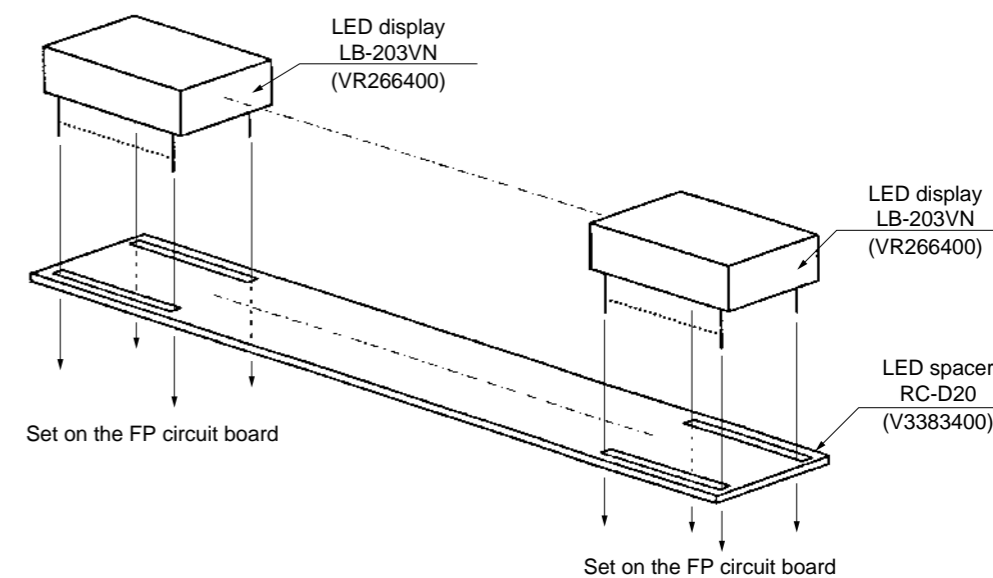
FP

● LM201-208 Installation



FP

● LM209-212 Installation

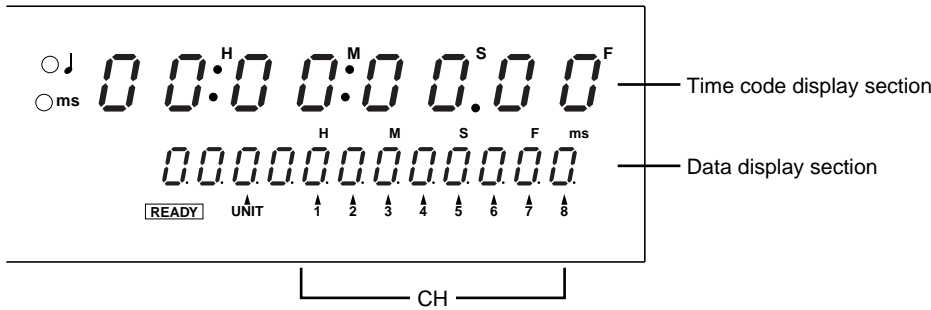


Note: See parts list for details of circuit board component parts.

CPU: 3NA-V331550-3 △
 FP: 3NA-V335310-3 △

TEST PROGRAM

● Display Panel



1. Checking ROM version

While pressing the [RTN TO ZERO] key, turn on the power switch. The ROM version will appear on the display.



2. Test Program

<Preparation>

Input DC12 V into [REMOTE] terminal. (Connector pin connection: 7 pin, 14 pin = DC +12 V 8 pin, 15 pin = GND)

<Start>

While pressing the [SET] key, turn on the power switch.

<Test Item>

Switch/LED and LED display (data display and time code display)

<Determination>

Check that when each switch is pushed, the corresponding data is displayed in the data section of the LED display. In addition, check that the LED indicator (or LED display indicator) repeatedly goes on and off with each push of the switch.

(Example: If "7" on the keypad is pressed.)



For a [PLAY] switch test, the time code display will start to count up at the same time the data display and LED indicator come on. Press the [STOP] key to stop the count up.

Refer to the corresponding chart for details about display data and other items.

<Switch and Corresponding Data>

Switch	Data	LED Lit	Switch	Data	LED Lit
7	01	7CH (LED display data display section)	LAST REC IN	13	LED indicator
8	02	8CH (LED display data display section)	LAST REC OUT	14	LED indicator
9	03	None	SET	15	None
PROJECT SELECT	04	LED indicator	AUTO PUNCH	16	LED indicator

Switch	Data	LED Lit	Switch	Data	LED Lit
4	05	4CH (LED display data display section)	RTN TO ZERO	17	None
5	06	5CH (LED display data display section)	ROLL BACK	18	LED indicator
6	07	6CH (LED display data display section)	A	19	LED indicator
LOC MEM RECALL	08	LED indicator	B	1A	LED indicator
1	09	1CH (LED display data display section)	REPEAT	1b	LED indicator
2	0A	2CH (LED display data display section)	REHE	1C	LED indicator
3	0b	3CH (LED display data display section)	REW	1d	Switch LED indicator
LOC MEM STORE	0C	LED indicator	FF	1E	Switch LED indicator
0	0d	None	STOP	1F	Switch LED indicator
CANCEL	0E	None	PLAY	20	Switch LED indicator time code count up
ENTER	0F	None	REC	21	Switch LED indicator
LOCATE	10	None	ABS	22	LED indicator
PRO. SEARCH <<	11	↓ (LED display)	CAPTURE	23	None
PRO. SEARCH >>	12	ms (LED display)			

REMOTE CONTROLLER/LOCATOR

RC-D24

PARTS LIST


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Notes : DESTINATION ABBREVIATIONS

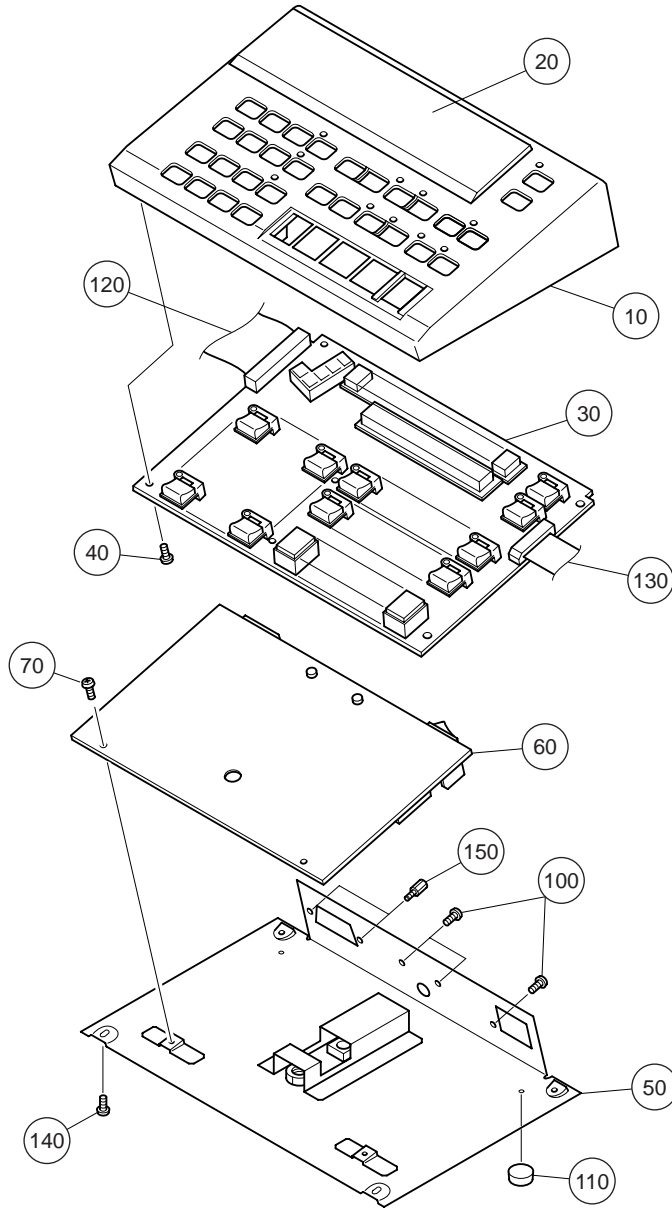
A: Australian model	M: South African model
B: British model	O: Chinese model
C: Canadian model	Q: South-east Asia model
D: German model	T: Taiwan model
E: European model	U: U.S.A. model
F: French model	V: General export model (110 V)
H: North European model	W: General export model (220 V)
I : Indonesian model	N,X: General export model
J: Japanese model	Y: Export model

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

- The numbers in “QTY” show quantities for each unit.
- The parts with “-” in “PART NO.” are not available as spare parts.
- The mark “}” in the remarks column indicates that these parts are interchangeable.
- The second letter of the shaded () part number is O, not zero.
- The second letter of the shaded () part number is I, not one.

OVERALL ASSEMBLY



REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	OVERALL ASSEMBLY		RC-D24		
	--	Overall Assembly		(V335490)		
* 10	V3355200	Top Cover				
* 20	V3355300	Window				
* 30	V3353100	Circuit Board	FP			
40	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
* 50	V3355400	Bottom Cover				
* 60	V3315500	Circuit Board	CPU			
70	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
100	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		3	01
110	CB037120	Foot			4	03
* 120	V3430600	Cable, FFC	P=1.25-K-34-120			
* 130	V3316500	Cable, FFC	P=1.25-K-18-120			
140	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		4	01
150	VT362500	Jack Socket	17L-003A3		2	01
* 1	V3354600	ACCESSORY IF Cable				

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		ELECTRICAL PARTS		RC-D24		
*	NX820600	Circuit Board	FP	(XV782B0)		
*	V3315500	Circuit Board	CPU	(XV761C0)		
				(XV782B0)		
*	NX820600	Circuit Board	FP			
	VT810300	Push Button		PROJECT SELECT, LOC MEM RECALL/STORE, LAST REC(IN,OUT),RTN TO ZERO, ROLL BACK,A,B,SET,ABS, CAPTURE	13	03
	VT839000	Push Button		0-9,CANCEL,ENTER, PROJECT SEARCH(FF,REW), AUTO PUNCH,REHE,LOCATE	17	03
	VV029900	LED Spacer				06
*	V3383400	LED Spacer				
*	V3482900	LED Spacer				
CN201	VQ044800	Connector, FFC	52044 18P SE			01
CN202	VQ046300	Connector, FFC	52044 34P SE			
D201	VT332900	Diode	1SS355 TE-17			01
-235	VT332900	Diode	1SS355 TE-17			01
LD201	VT838500	LED	SLZ-135B-08-T1 RE	PROJECT SELECT, LOC MEM (RECALL,STORE), LAST REC(IN,OUT),A,B, AUTO PUNCH,REPEAT,REHE		01
-210	VT838500	LED	SLZ-135B-08-T1 RE			01
LD211	VD118700	LED	GL8HD22 RE			01
LD212	VD118700	LED	GL8HD22 RE	MS		01
LD213	VT838500	LED	SLZ-135B-08-T1 RE	ABS		01
LM201	VU918100	LED Display	LA-401VN			03
-208	VU918100	LED Display	LA-401VN			03
LM209	VR266400	LED Display	LB-203VL			07
-212	VR266400	LED Display	LB-203VL			07
LS201	V3123700	Push Switch	UB-15SKP4Y	REW		
LS202	V3266700	Push Switch	UB-15SKP4Y	FF		
LS203	V3123800	Push Switch	UB-15RNKP4Y	STOP		
LS204	V3266800	Push Switch	UB-15RNKP4Y	PLAY		
LS205	V3123900	Push Switch	UB-15SKP4R	REC		
SW201	VT513600	Light Touch Switch	EVQ 22C 05B	0-9,PROJECT SELECT,CANCEL LOC MEM(RECALL,STORE) ENTER,LOCATE,AUT PUNCH, SONG SERCH(FF,REW), LAST REC(IN,OUT),SET, RTN ZERO,ROLL BACK,A,B, REPEAT,REHE,ABS,CAPTURE		01
-230	VT513600	Light Touch Switch	EVQ 22C 05B			01
*	V3315500	Circuit Board	CPU	(XV761C0)		
	EG330380	Bind Head Screw	3.0X10 MFZN2BL			01
	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			01
	ES200030	Hexagonal Nut	#1 3.0 MFZN2BL			01
	IL000680	Insulation Sheet	BFG-20			01
	VP050400	Switch Panel	IFB485			11
	--	Heat Sink		(V335240)		
C101	UF037470	Electrolytic Cap. (chip)	47 16V			01
C102	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
C103	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
C104	UF018100	Electrolytic Cap. (chip)	100 6.3V			01
C105	UF066100	Electrolytic Cap. (chip)	1 50V			01
C106	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
C107	UB051100	Monolithic Ceramic Cap.	SL 10P 50V D			01
C108	UB051100	Monolithic Ceramic Cap.	SL 10P 50V D			01
C109	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
C110	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
-120	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
C121	UB014100	Monolithic Ceramic Cap.	B 0.01 50V K			01
C122	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
C123	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
-125	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C126	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
C127	UB012220	Monolithic Ceramic Cap.	B 220P 50V K			01
C128	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01
-138	UB215100	Monolithic Ceramic Cap.	B 0.1 25V K			01

*: New Parts

RANK: Japan only

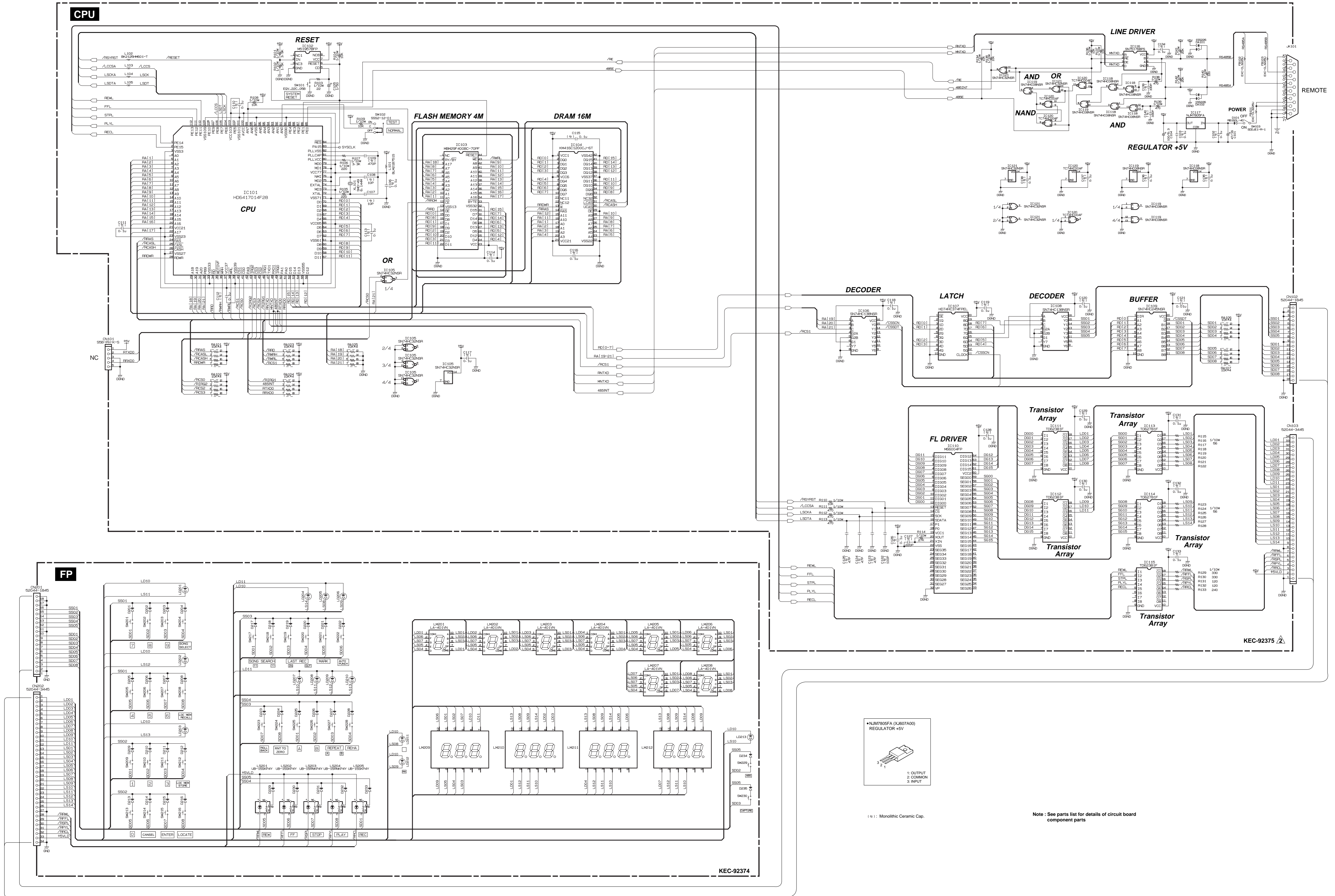
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C139	UB012330	Monolithic Ceramic Cap.	B 330P 50V K			01
C140	UB012330	Monolithic Ceramic Cap.	B 330P 50V K			01
CN101	VR134200	Base Post	PH 5P SE			01
CN102	VQ044800	Connector , FFC	52044 18P SE			01
* CN103	VQ046300	Connector , FFC	52044 34P SE			
D101	VS597600	Diode	RB160L-40 TE25			01
DA101	VD303900	Diode Array	1SS226 TE85R			01
DA102	VD303900	Diode Array	1SS226 TE85R			01
FB101	VQ723100	Chip Inductance	EXC CL3225U 3			01
-B103	VQ723100	Chip Inductance	EXC CL3225U 3			01
IC101	XU147A00	IC	HD6417014F28	CPU		09
IC102	XM529A00	IC	M51957BFP	RESET		03
* IC103	XW126A00	IC	MBM29F400BC-70PF	FLASH MEMORY 4M		
IC104	XV145A00	IC	KM416C1200	DRAM 16M		12
IC105	XD833A00	IC	SN74HC32NSR	OR		01
IC106	XD835A00	IC	SN74HC138NSR	DECODER		02
IC107	XL342A00	IC	HD74HC374FPEL	LATCH		03
IC108	XD835A00	IC	SN74HC138NSR	DECODER		02
IC109	XD838A00	IC	SN74HC245NSR	BUFFER		04
IC110	XT828A00	IC	M66004FP	FL DRIVER		07
IC111	VQ248500	Transistor Array	TD62381F			04
IC112	VQ248500	Transistor Array	TD62381F			04
* IC113	V3316400	Transistor Array	TD62781F			
* IC114	V3316400	Transistor Array	TD62781F			
IC115	VQ248500	Transistor Array	TD62381F			04
IC116	XJ704A00	IC	SN75176BPS	LINE DRIVER		08
IC117	XJ607A00	IC	NJM7805FA	REGULATOR +5V		02
IC118	XD831A00	IC	SN74HC08NSR	AND		01
IC119	XD831A00	IC	SN74HC08NSR	AND		01
IC120	XD655A00	IC	TC74HC00AF	NAND		01
IC121	XD833A00	IC	SN74HC32NSR	OR		01
JK101	VT362400	D-sub Connector	17LE 15P SE	REMOTE		04
L101	VS740100	Chip Inductance	BLM21B751S 2125			03
L102	VQ724900	Chip Inductance	BK2125HM601-T			01
-105	VQ724900	Chip Inductance	BK2125HM601-T			01
R101	RD256390	Carbon Resistor (chip)	3.9K 0.1 J			01
R102	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
R103	RD254220	Carbon Resistor (chip)	22.0 0.1 J			01
R104	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R105	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R106	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R107	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
R108	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-110	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R111	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
-113	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
R114	RD257270	Carbon Resistor (chip)	27.0K 0.1 J			01
R115	RD254560	Carbon Resistor (chip)	56.0 0.1 J			01
-128	RD254560	Carbon Resistor (chip)	56.0 0.1 J			01
R129	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
R130	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
R131	RD255120	Carbon Resistor (chip)	120.0 0.1 J			01
R132	RD255120	Carbon Resistor (chip)	120.0 0.1 J			01
R133	RD255240	Carbon Resistor (chip)	240.0 0.1 J			01
R134	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-137	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R138	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
R139	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
R140	RD255120	Carbon Resistor (chip)	120.0 0.1 J			01
R141	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
R142	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-107	RE047100	Resistor Array	10KX4			01
SW101	VT513600	Light Touch Switch	EVQ 22C 05B	system reset		01
SW102	VP804700	Slide Switch	SSSS2-12-01	repair only		01
* SW103	V3449700	Switch	SDDJE1-R-1	POWER ON/OFF		
* XL101	VZ683900	Quartz Crystal Unit	6.144MHz SMD-49			

*: New Parts

RANK: Japan only

RC-D24 OVERALL CIRCUIT DIAGRAM

RC-D24



REMOTE

NC

KEC-92374

KEC-92374

RC-D24

RC-D24