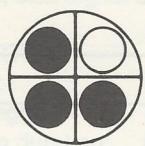


SYSTEM Compact disc digital audio system

**eurovox**

SERVICE MANUAL

VOLUME

CURRENT DRAW

CUSHING TEMPERATURE

DIMENSIONS

WEIGHT

AS

SERVICING NOTES

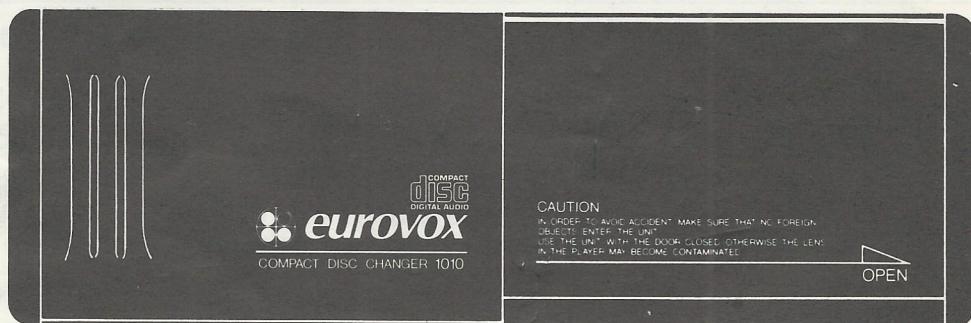
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The base unit or the optical pick-up block may suffer electrostatic breakdown because of the static effect generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to static effects of equipment and avoid the direct touch in the printed circuit board or the base unit in the repair room.

The flexible cable is easily damaged and should be handled very carefully.

PROTECTION



1010

In the event of the visual noise or other damage to the optical pick-up block, do not touch the lens surface on the Optical Pick-up Block.

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SPECIFICATIONS

SYSTEM: Compact disc digital audio system

LASER DIODE PROPERTIES:

Material:	GaAlAs
Wavelength:	780 nm
Emission duration:	Continuous
Laser output power:	Less than $44.6\mu\text{W}^*$

* This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.

D-A CONVERSION:

16-bit linear

FREQUENCY RESPONSE:

5 - 20,000 Hz ± 1 dB

SIGNAL-TO-NOISE RATIO:

90 dB

WOW AND FLUTTER:

Below measurable limit

OUTPUTS:

Line output (for changer connector only)

CURRENT DRAIN:

800mA (CD playback)

OPERATING TEMPERATURE:

800mA (during disc loading or eject)

-10°C - 55°C (14°F - 131°F)

DIMENSIONS:

301mm(W) x 98mm(H) x 200mm(D)

WEIGHT:

3 kg

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

* Material:	GaAlAs
* Wavelength:	780 nm
* Emission Duration:	Continuous
* Laser Output:	Max. $44.6\mu\text{W}^*$

* This output is the value measured at a distance of about 200mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit.

If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

MECHANICAL ADJUSTMENTS

[LARGE ELEVATOR GEAR POSITION (LOCATION 10.5) ADJUSTMENT]

1. Move the middle elevator gear in the arrowed direction and place the top plate at the position where there are no clearances between the bottom face of the top plate and the top edges of the three claws.

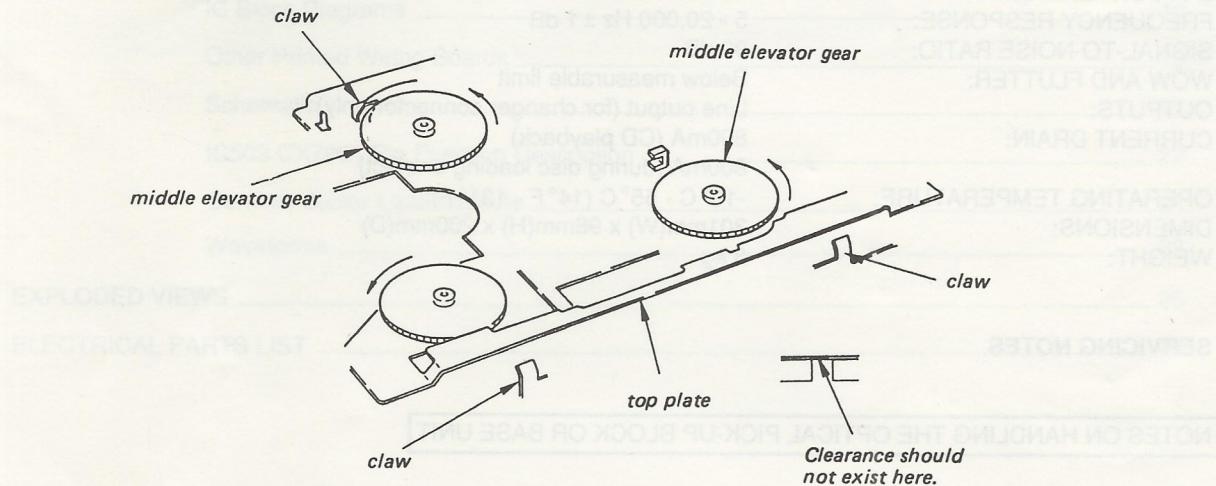


Fig. 1

2. Put the large elevator gear on the shaft of the top plate taking care not to move the middle elevator gears. The large elevator gear should be fastened by the top plate and EHS protrusion and should position in the relationship with the EHS as shown in Fig. 1.
3. After the placing, fix the large elevator gear with a retaining ring.

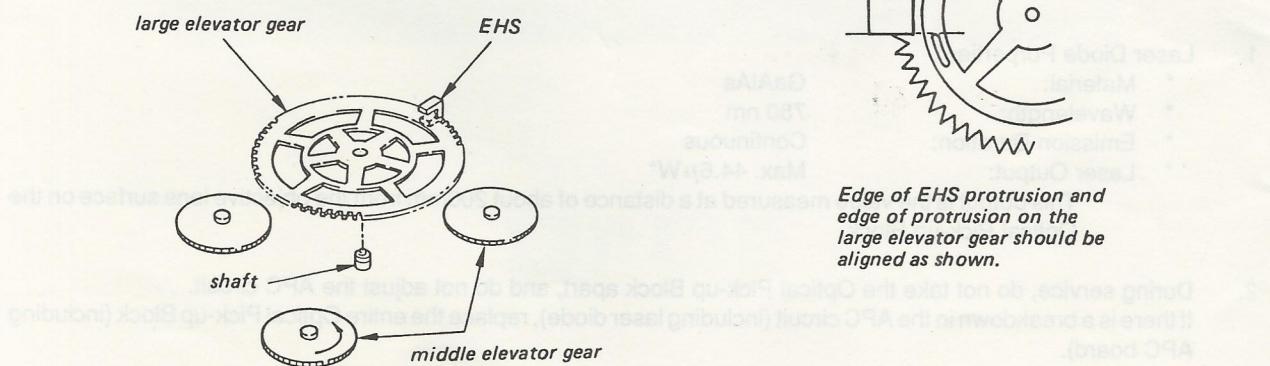


Fig. 2

[HOMING ADJUSTMENT]

- Note:** 1. The mechanism section should be completely assembled.
 2. Control the mechanism with the main unit XR-7300.

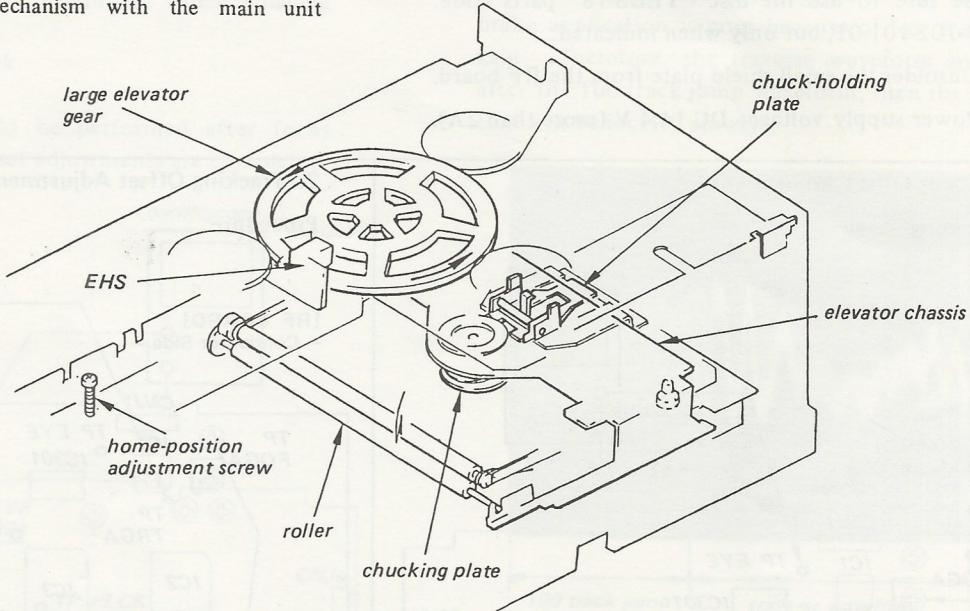


Fig. 3

1. Put the disk magazine containing several disks in the changer.
2. Initialize the changer.
3. Pull off the first disk.
4. Wait until the elevator lowers down to the home position.
5. Move the large elevator gear so that the clearance between the inner edge face of the chucking plate and edge of the top face of the stainless chuck-holding plate becomes in 1.5 mm (1/16 inches) as shown in Fig. 4.
6. Make a dot marking on the large elevator gear as shown in Fig. 5.
7. Re-put the first disk in the disk magazine.
8. Pull off the first disk again. The dot marking made in the step 6 above should position as shown in Fig. 5.
9. Fine adjust the position of the large elevator gear with the home-position adjustment screw shown in Fig. 3.

Adjustment Screw Position	Large Elevator Gear Position Displacement
One (1) turn in clockwise	15 (fifteen) degrees clockwise
One (1) turn in counterclockwise	15 (fifteen) degrees counterclockwise

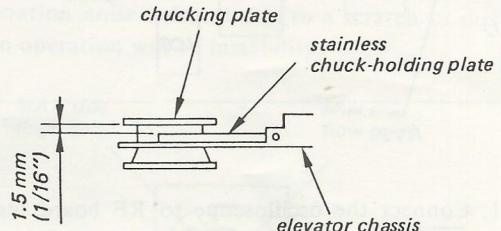
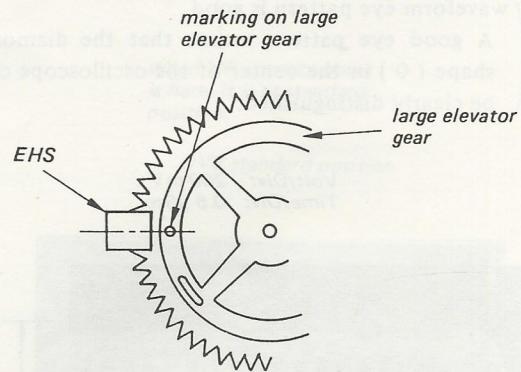


Fig. 4



Note:
 Make a marking near and on the center line of the EHS sensor.

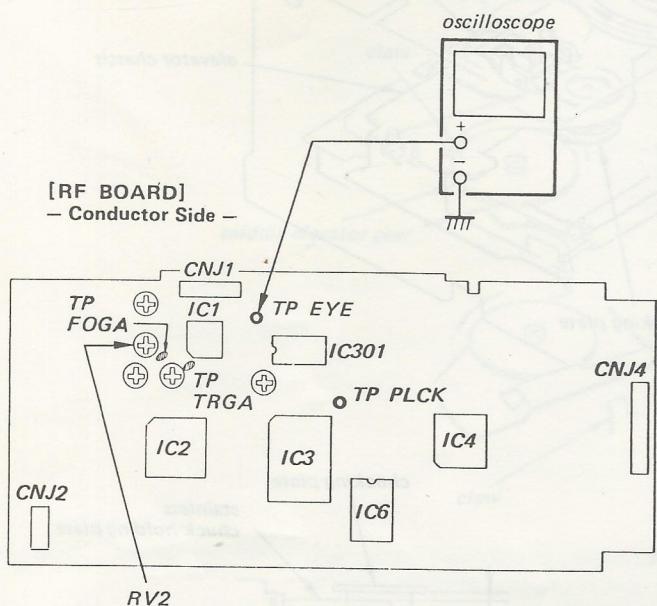
Fig. 5

ELECTRICAL ADJUSTMENTS

1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Unsolder the small shield plate from the RF board.
4. Power supply voltage: DC 14.4 V (more than 2A).

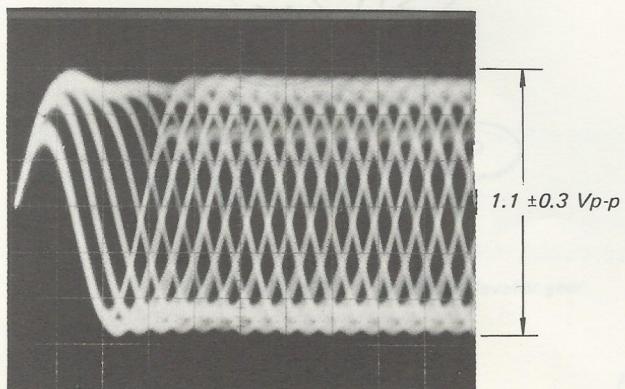
1. Focus Offset Adjustment

Procedure:



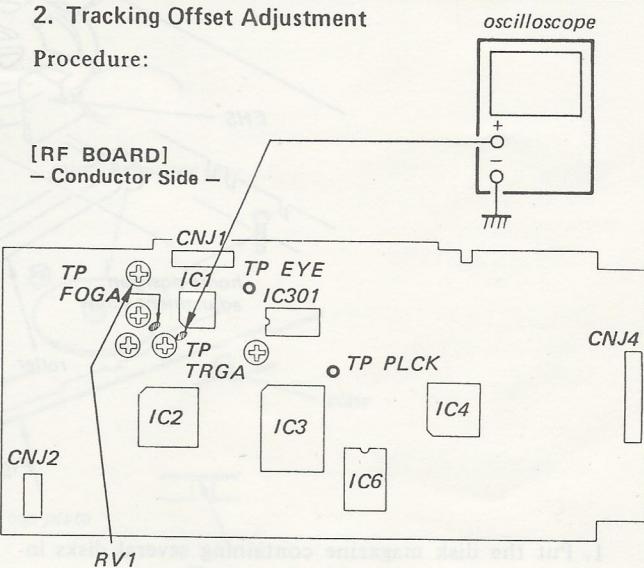
1. Connect the oscilloscope to RF board test point [EYE].
2. Put the set into play mode by loading the disc.
3. Adjust main board RV2 so that the oscilloscope waveform eye pattern is good.
A good eye pattern means that the diamond shape (\diamond) in the center of the oscilloscope can be clearly distinguished.

Volt/Div: 200 mV
Time/Div: 0.5 μ Sec



2. Tracking Offset Adjustment

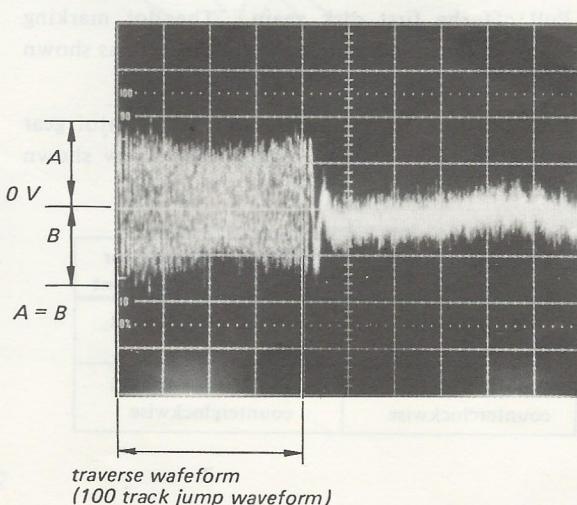
Procedure:



1. Connect the oscilloscope to RF board test point [TRGA], pin (1) of IC1.
2. Put the set into play mode by loading the disc.
3. Press the $\leftarrow\rightleftharpoons$ or $\rightarrow\rightleftharpoons$ (or $\leftarrow\rightleftharpoons, \rightarrow\rightleftharpoons$) button, then check the traverse waveform*.
4. Adjust RV1 (main board) so that oscilloscope reading is symmetrical in relation to 0 V.

*Traverse waveform: This is the tracking error waveform appears when crossing the track.

Volt/Div: 0.5 V
Time Div: 2 mSec
Center 0 V



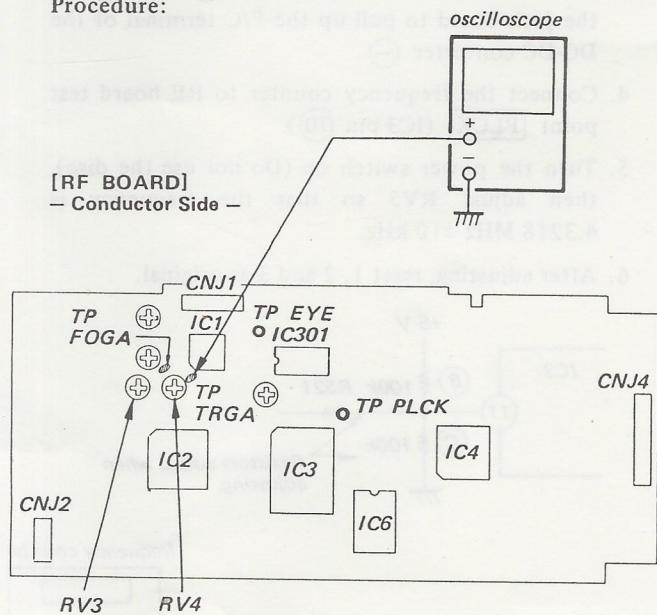
3. Tracking Gain Adjustment (coarse adjustment)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV4

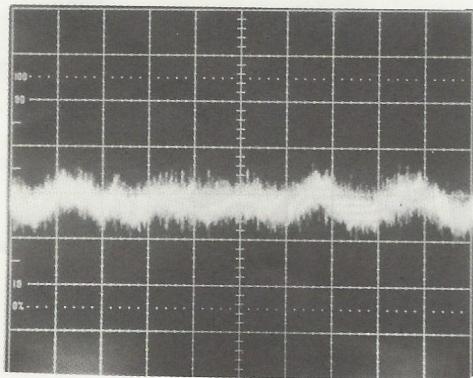
This adjustment should be performed after focus offset and tracking offset adjustments are completed.

Procedure:



1. Connect the oscilloscope to RF board test point **TRGA**.
2. Put the set into play mode by loading the disc.
3. Turn RF board RV4 from clockwise stop, then check the oscilloscope waveform. Fix RV4 at the position where the waveform disappears.

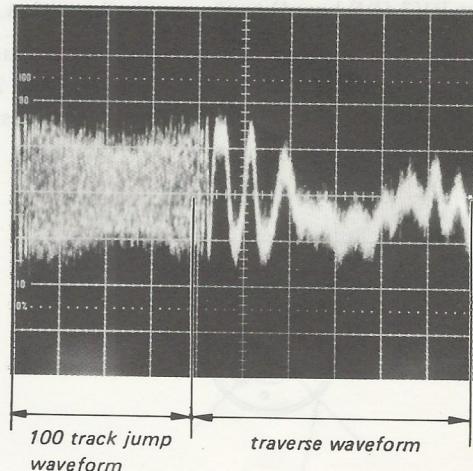
Volt/Div: 0.5 V
Time/Div: 2 mSec



waveform when the wave appears

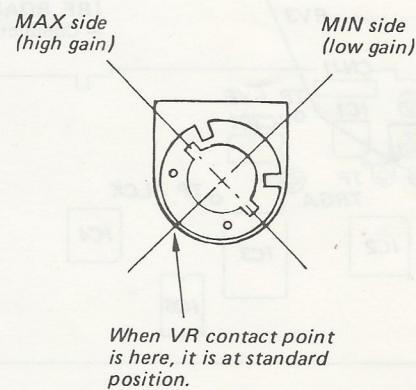
- When gain is lowered ...

When selecting by pressing **◀▶** button, brake application is poor because of low tracking gain. Therefore, the traverse waveform appears after the 100 track jump waveform, then the selection will be located slowly.

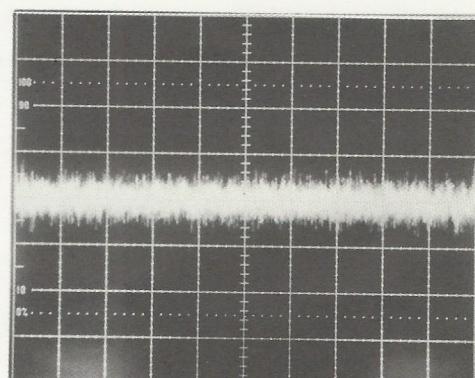


- When gain is highered ...

Operation noise is heard due to a scratch or dust, then operation will be instability.



RV3 standard position



waveform when the wave disappeared

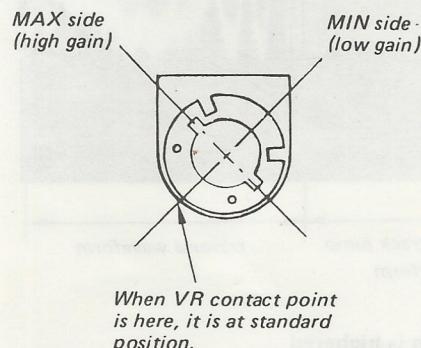
4. Focus Gain Adjustment (coarse adjustment)

This adjustment is to be performed when replacing the following parts.

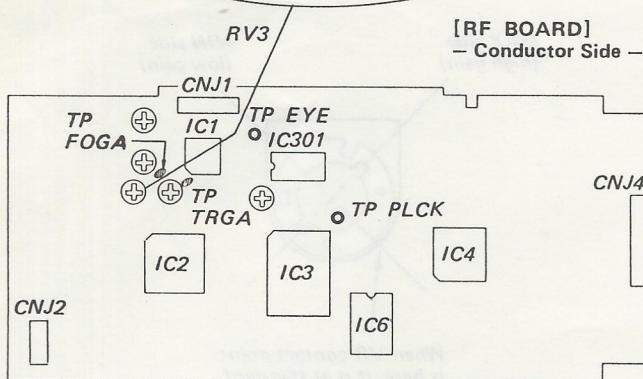
- Optical Pick-up Block
- RV3

Procedure:

1. Set RV3 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis device. If there is, turn RV3 slightly clockwise.



RV3 standard position



● When gain is highered . . .

The set does not play because of no focus operation.

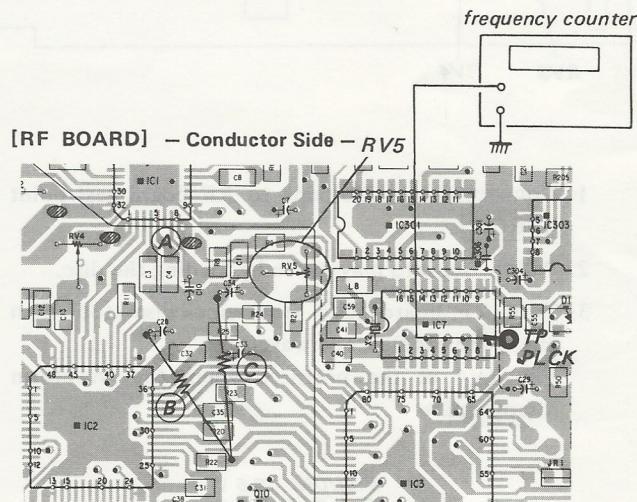
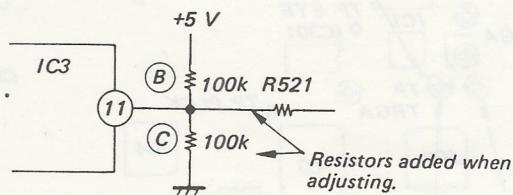
● When gain is highered . . .

Operation noise is heard due to a scratch or a dust, then operation will be unstable.

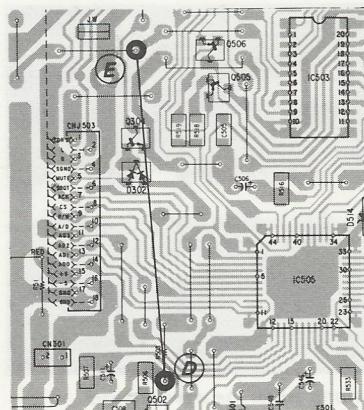
5. PLL Freerun Frequency Adjustment

Procedure:

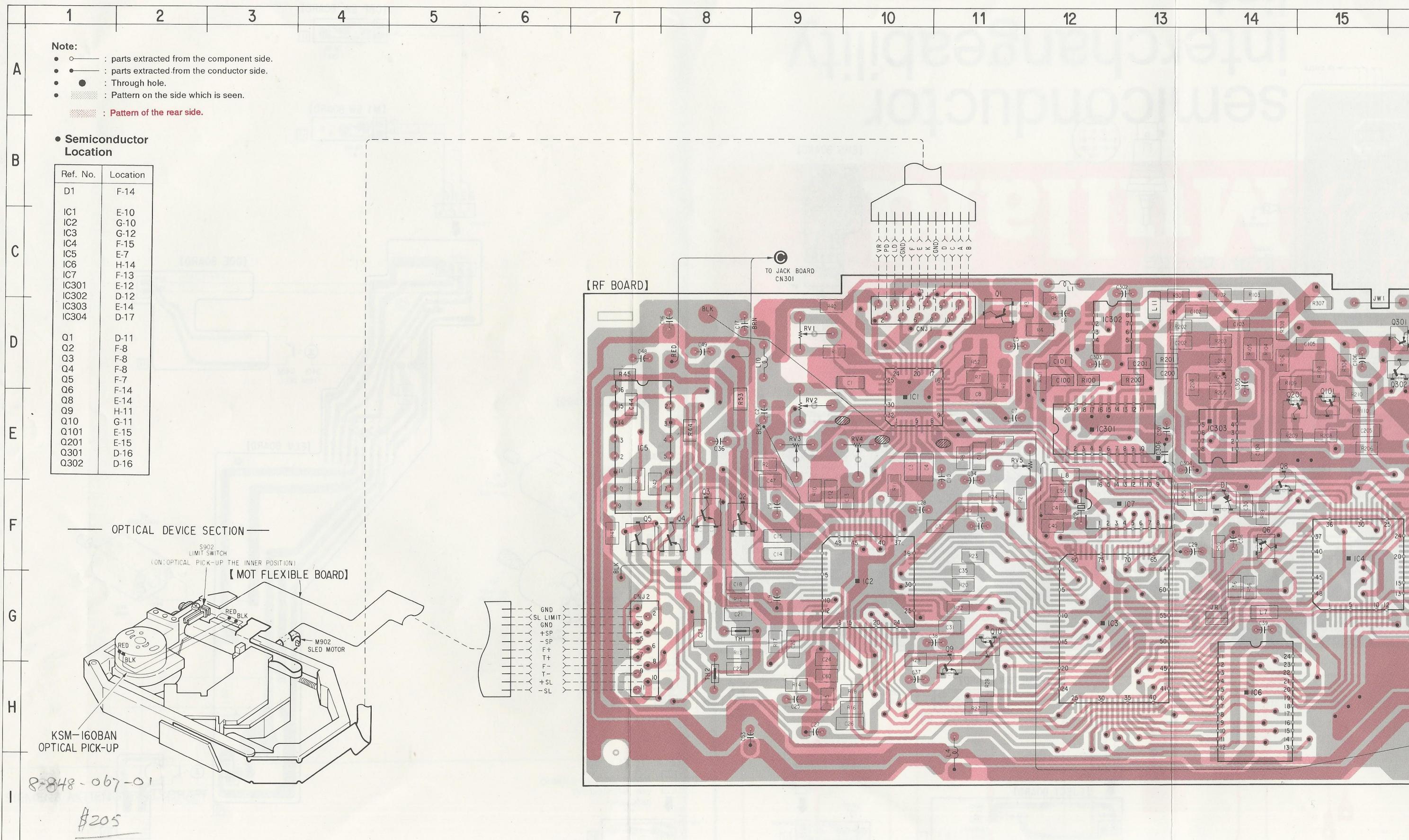
1. Unsolder the solder bridge at (A) (IC3 pin ⑤) is opened)
2. Connect 100 kΩ resistors to (B), (C). (This is to set the IC3 pin ⑪ voltage to 2.5 V)
3. Install a test jumper wire between (D) and (E) on the jack board to pull up the P/C terminal of the DC-DC converter (—).
4. Connect the frequency counter to RF board test point [PLCK] (IC3 pin ⑰).
5. Turn the power switch on (Do not use the disc), then adjust RV5 so that the frequency is 4.3218 MHz ±10 kHz.
6. After adjusting, reset 1, 2 and 3 as original.



[JACK BOARD] — Conductor Side —

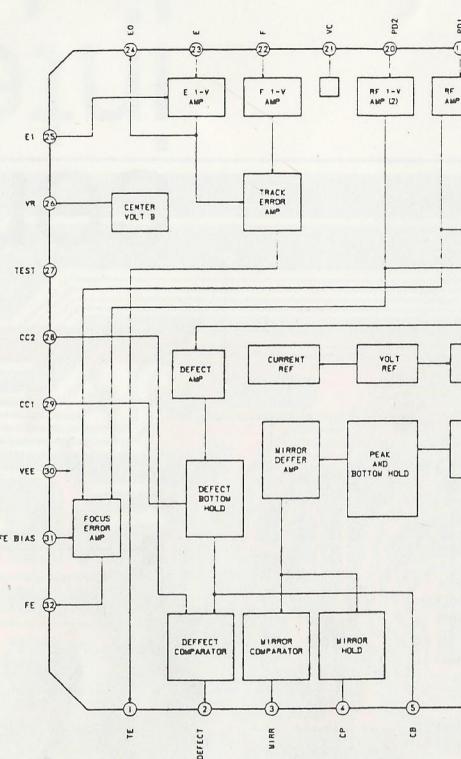


RF PRINTED WIRING BOARD



IC BLOCK DIAGRAMS

IC1 CXA1081Q

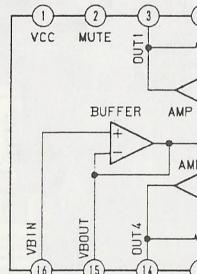


FLEXIBLE BOARD

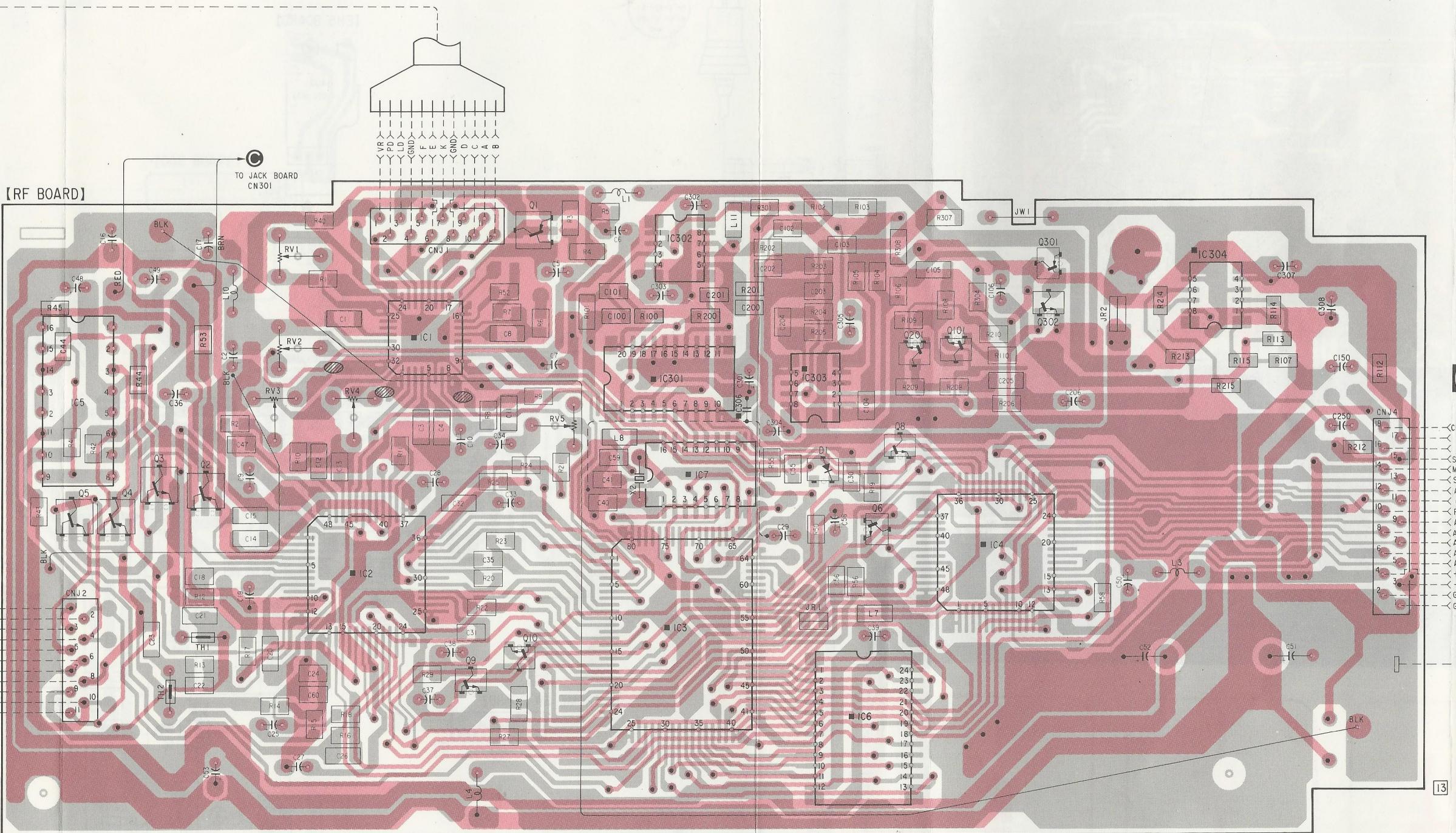
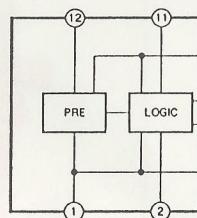
A TO JACK BOARD

B TO JACK BOARD

IC5 LA6530



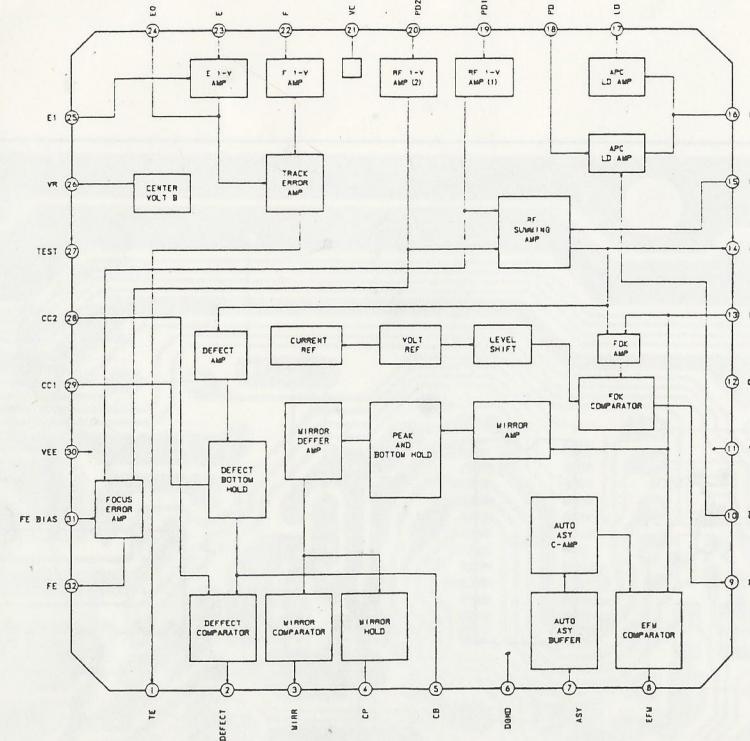
IC501, 507 LB16



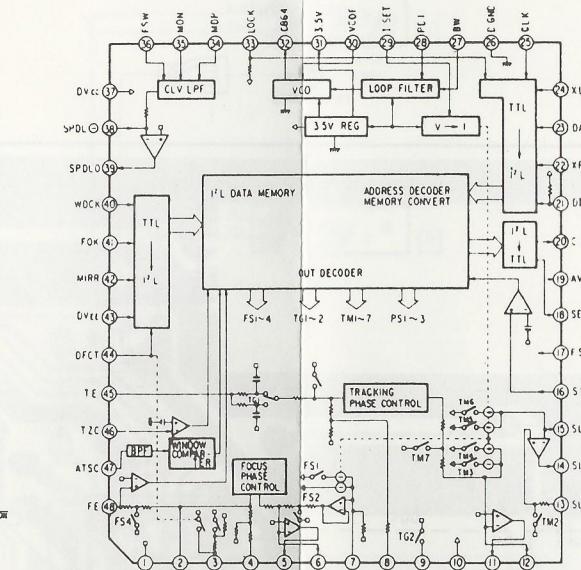
15 **16** **17** **18** **19**

IC BLOCK DIAGRAM

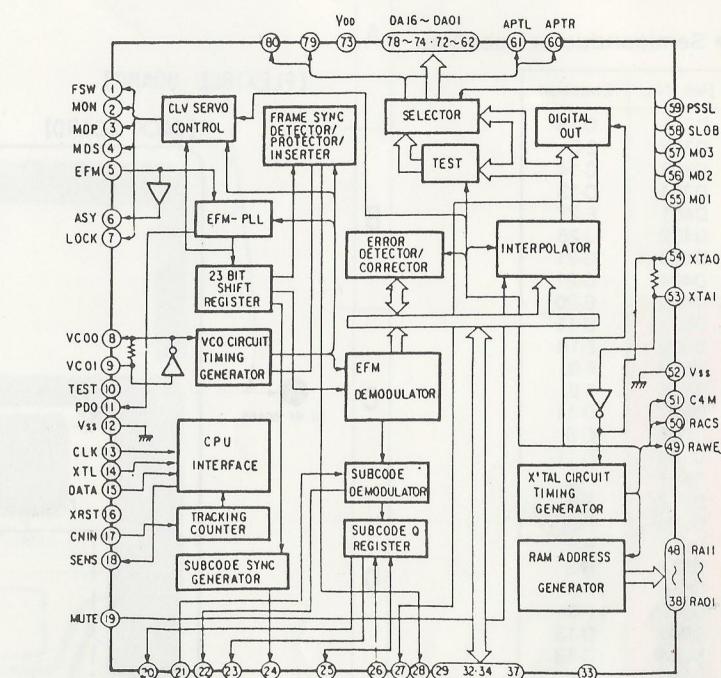
IC1 CXA1081C



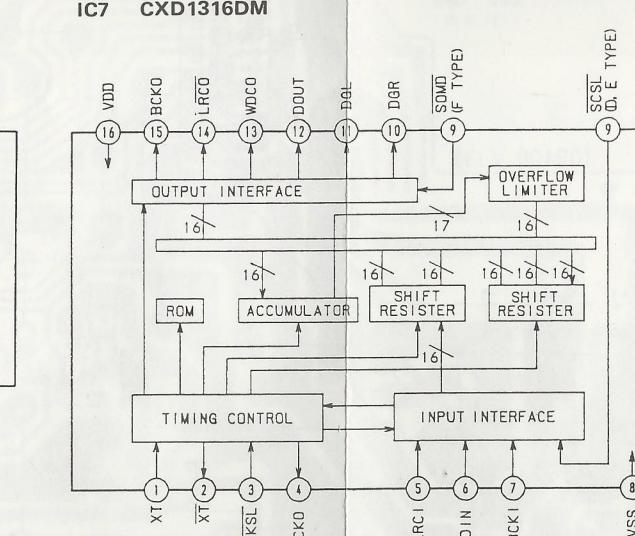
IC2 CXA1082



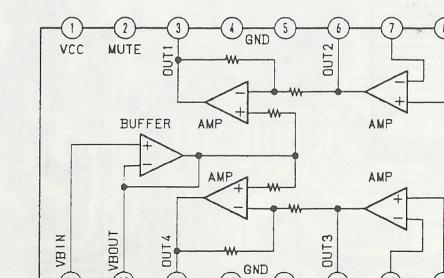
IC3 CXD1125C



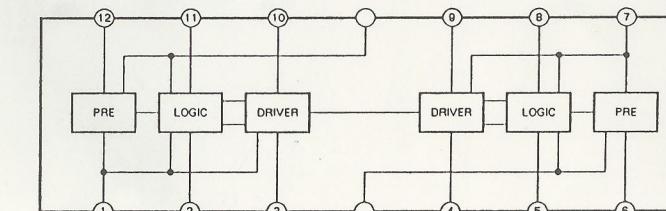
IC7 CXD1316D



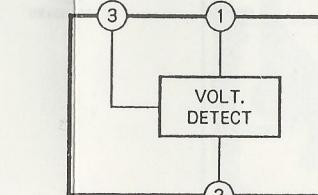
IC5 LA65



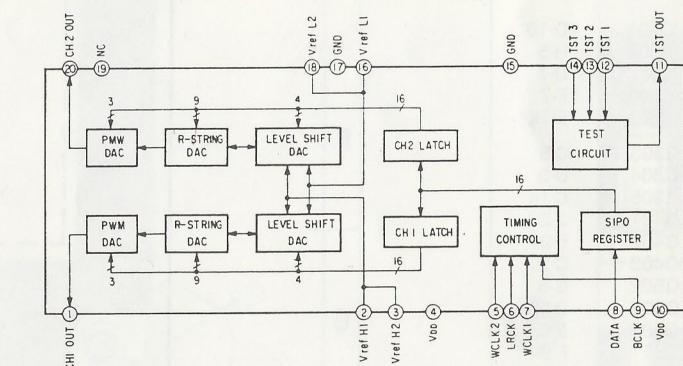
IC501, 507 LB164



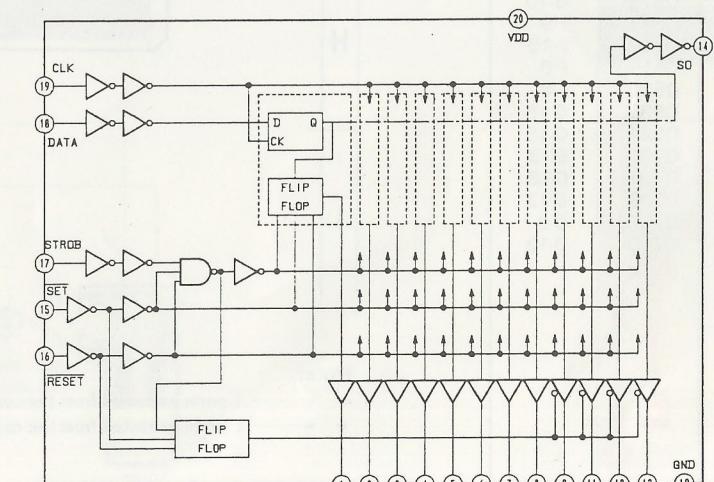
IC502 S-8054HN-CH



IC301 CXD1161M-2



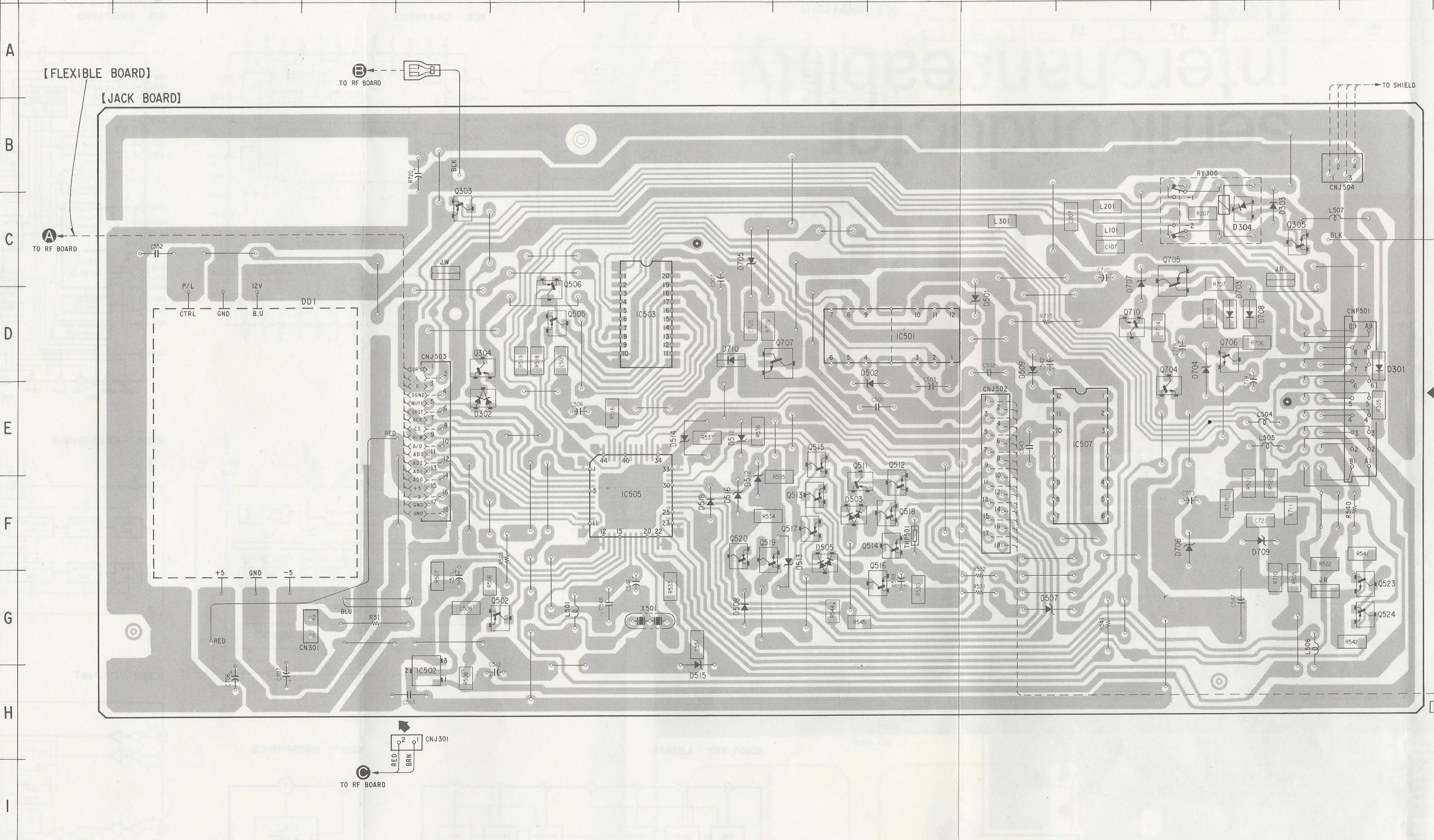
IC503 CX-7991



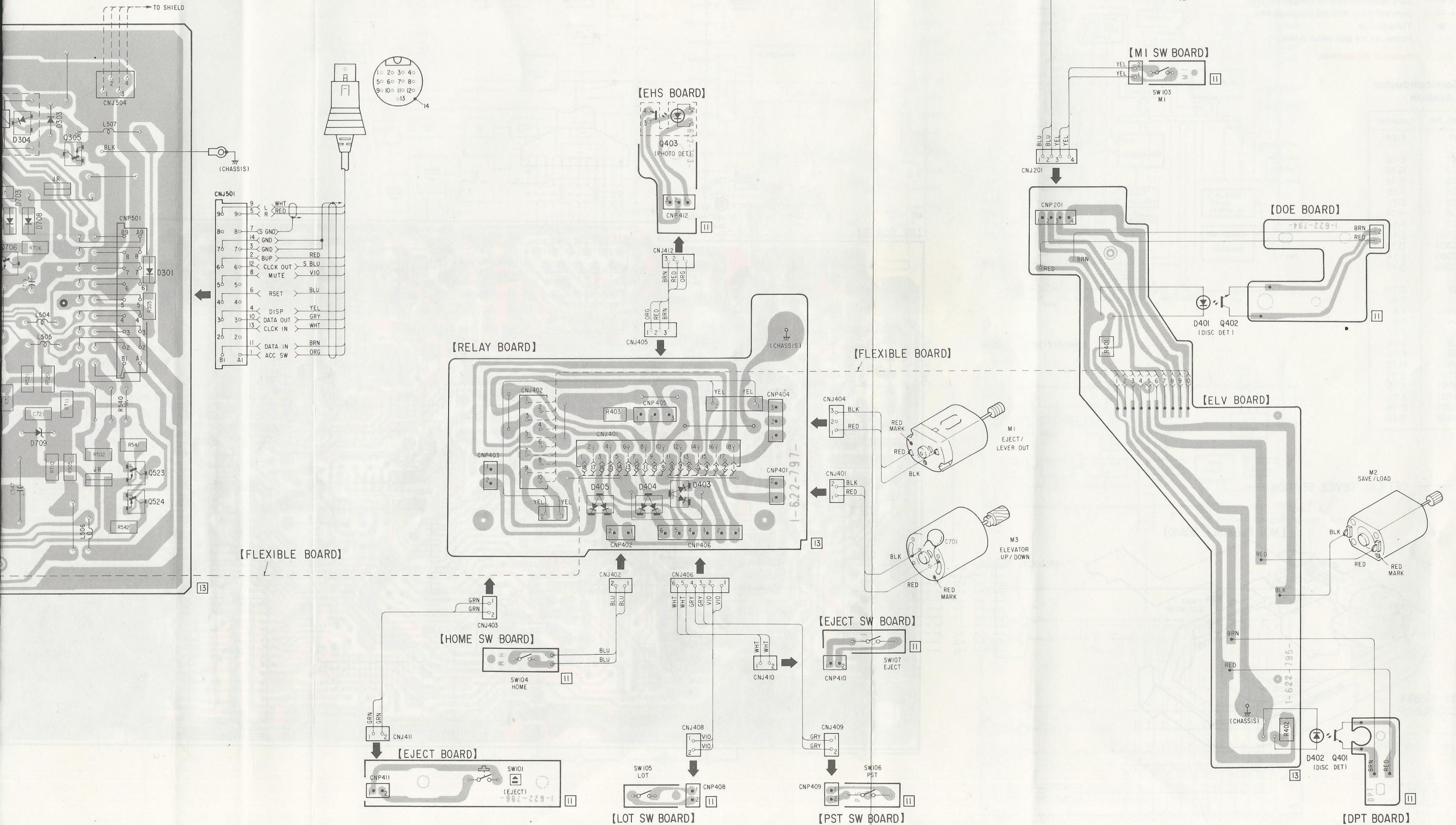
OTHER PRINTED WIRING BOARDS

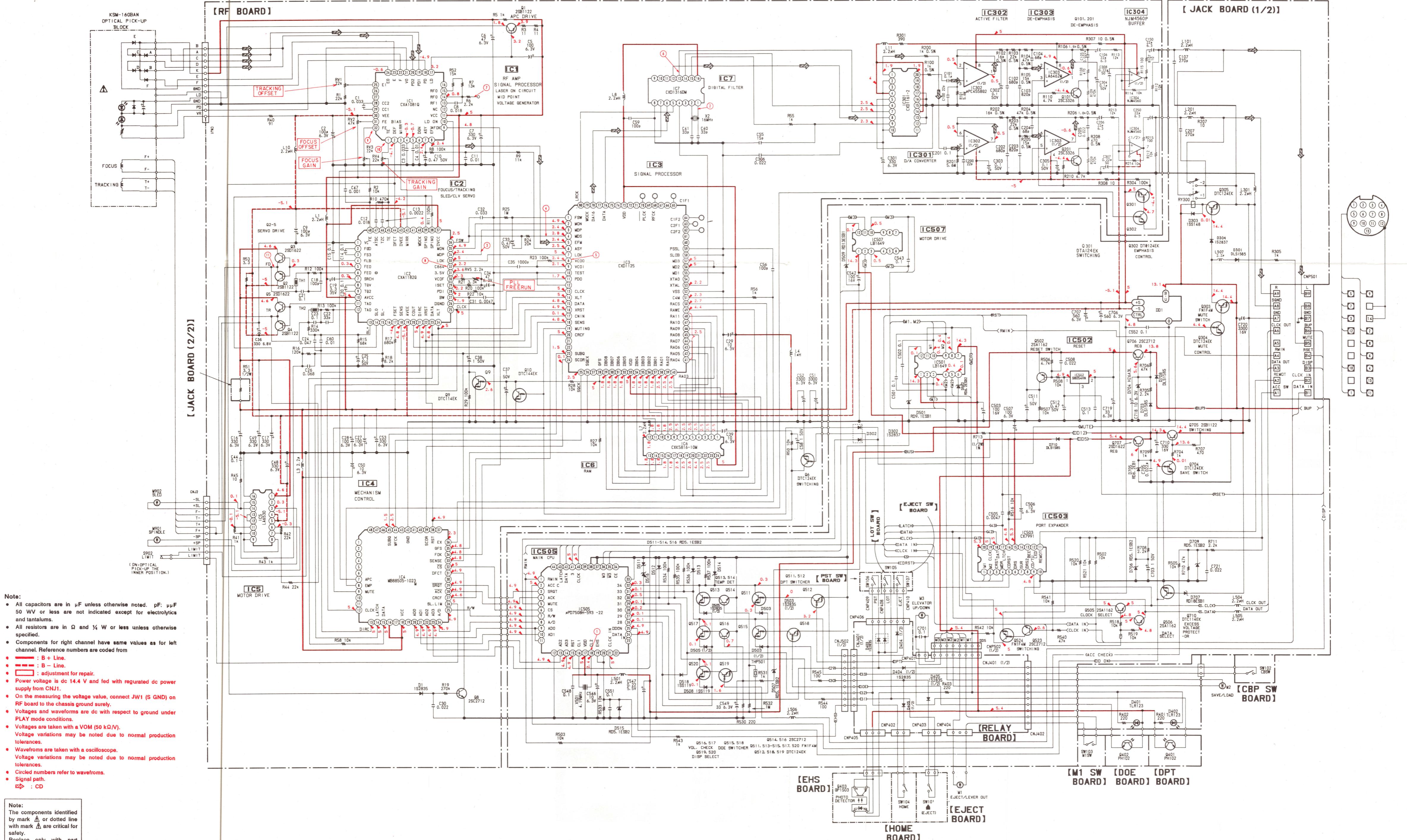
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D304	C 13
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D402	J 28
D403	G 21
D404	G 21
D405	G 20
D501	D 11
D502	D 11
D503	E 10
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D507	F 9
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D518	F 8
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D706	F 13
D707	D 12
D708	D 14
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D710	D 8
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IC505	F 7
IC507	E 12
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Q948	D 12
Q949	D 12
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Q999	D 12



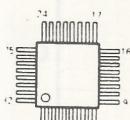
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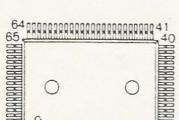


SEMICONDUCTOR LEAD LAYOUTS

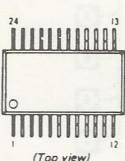
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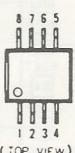
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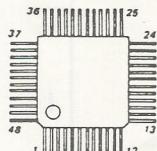
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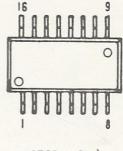
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μPC4558G2**



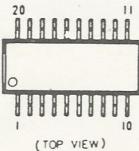
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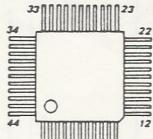
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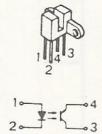
**CXD1161M-2
CX-7991**



μPD7508HG-593-22



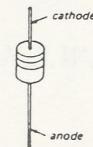
GP-1S03



DLS1585



**RD13ES-B1
RD18ES-B1
RD5.1ES-B2
RD6.2ES-B2
RD9.1ES-B1
1SS119**



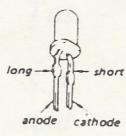
PH102-L



HZ6A2L



TLR123

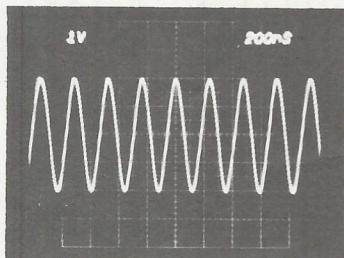


IC503 CX7991 PIN FUNCTION DESCRIPTION

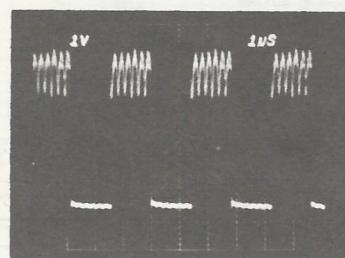
Pin No.	Description
1 – 8	Parallel output terminal. The internal register status is loaded and output using a strobe signal. When a set signal is input, "1" is output. When a reset signal is input, "0" is output.
9, 11 – 13	Parallel output terminal. The internal register status is loaded and output using a strobe signal. When a set or reset signal is input, the output becomes high impedance. The output is then enabled using a strobe signal.
10	GND
14	Serial data output terminal.
15	Set signal input terminal. Becomes active when low. When this pin is set low, the latch is set and "1" is output to pins 1 through 8 irrespective of the internal register status. Pins 9, 11, 12, and 13 then becomes high impedance.
16	Reset signal input terminal. Becomes active when low. When this pin is set low, the latch is reset and "0" is output to pins 1 through 8 irrespective of the internal register status. Pins 9, 11, 12, and 13 then becomes high impedance.
17	Strobe signal input terminal. Becomes active when high. When this pin is set high, the internal register status is shifted to the latch status.
18	Serial data input terminal. The external serial data is input.
19	Clock signal input terminal. Data is loaded when the system is initiated.
20	Power supply

WAVEFORMS

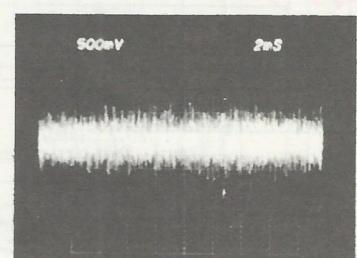
1 IC505 pin ⑯



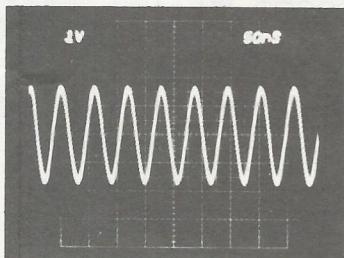
6 IC7 pin ⑬



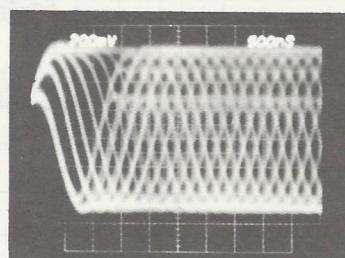
11 Q2, 3 emitter



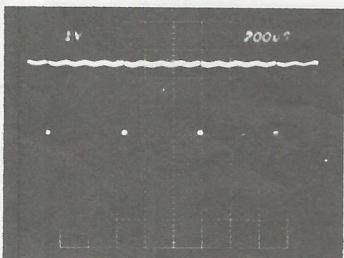
2 IC7 pin ①



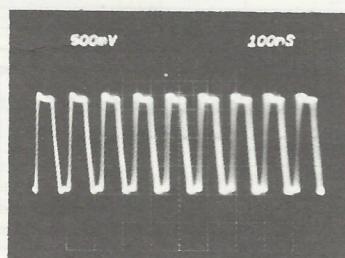
7 IC1 pin ⑭



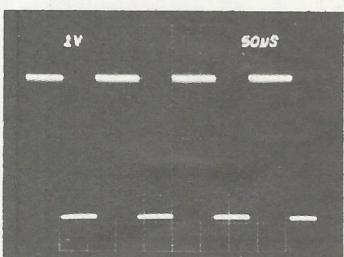
3 IC2 pin ④, IC3 pin ③



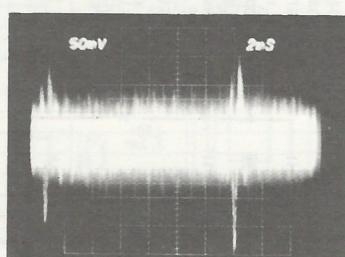
8 IC2 pin ⑫



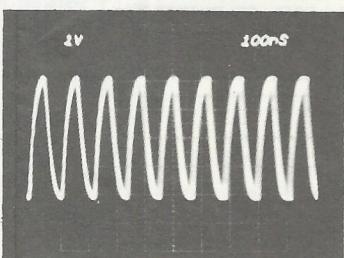
4 IC3 pin ④



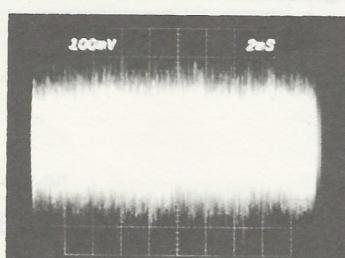
9 IC1 pin ⑫



5 IC3 pin ⑧



10 IC1 pin ①

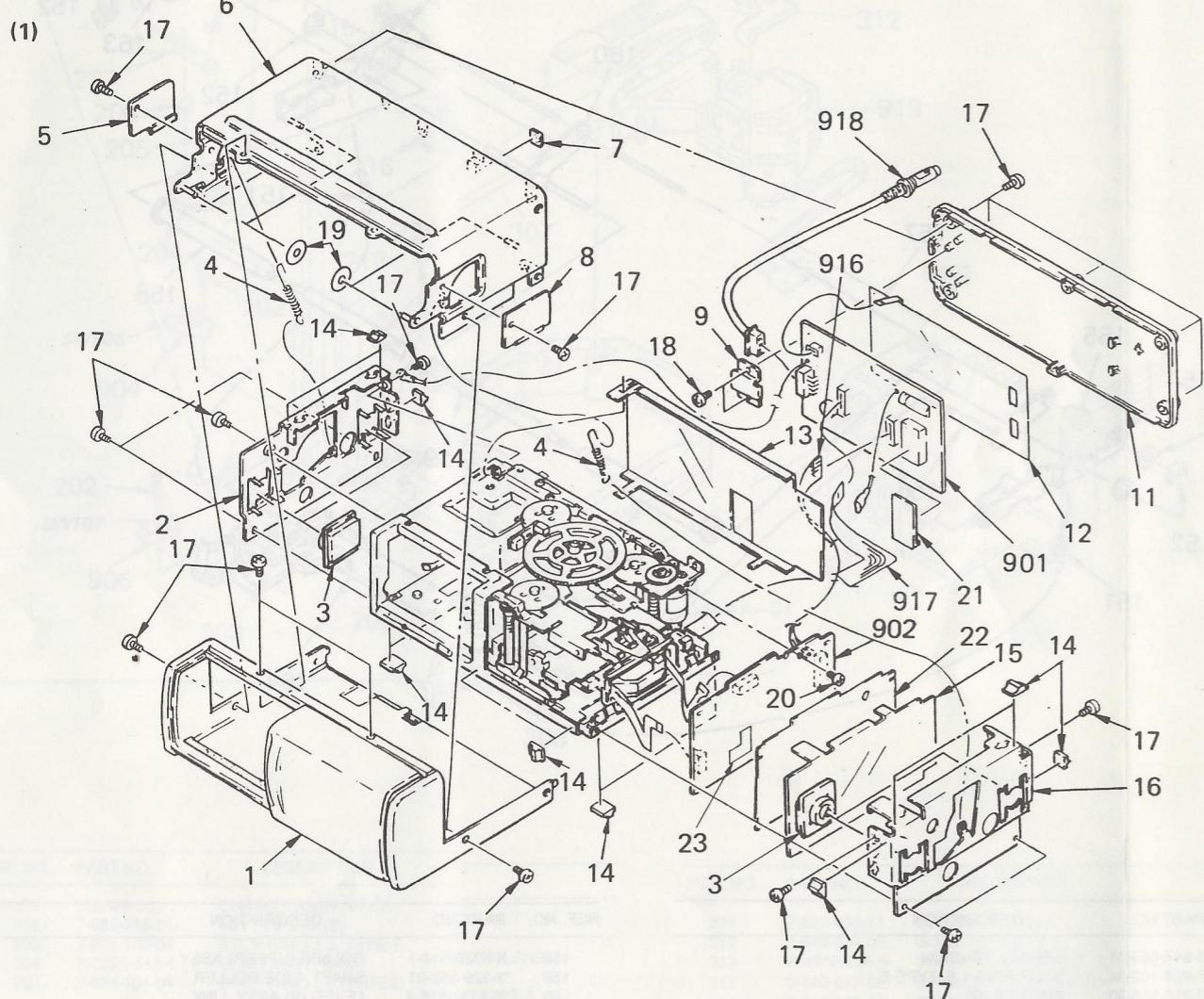


EXPLODED VIEWS

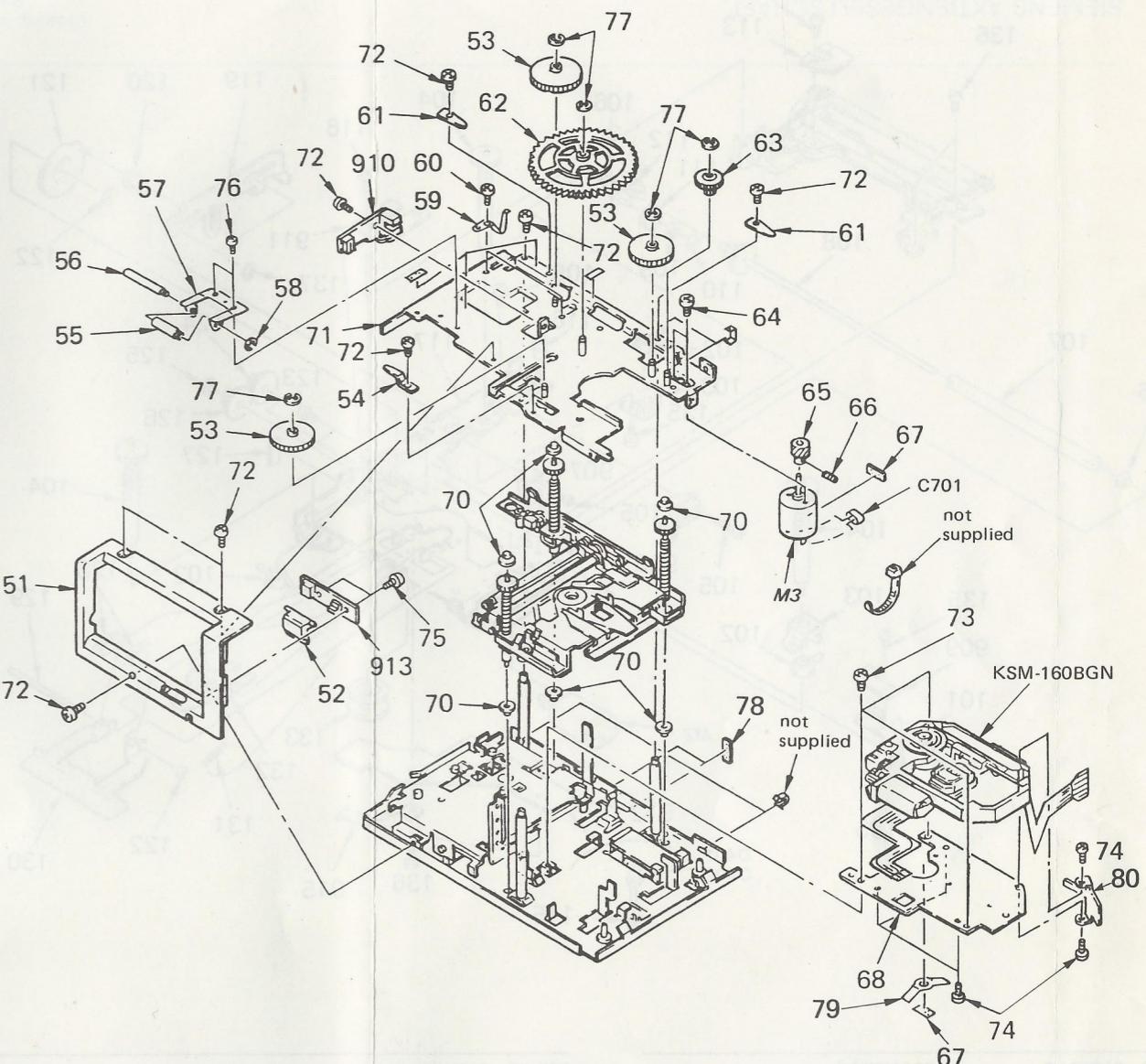
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.



(2)



REF. NO.	PART NO.	DESCRIPTION
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REF. NO.	PART NO.	DESCRIPTION
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1	X-3329-	PANEL ASSY, FRONT
2	*3-348-742-01	BRACKET (O DAMPER LEFT)
3	3-348-583-01	DAMPER (OIL)
4	3-348-584-01	SPRING (FLOATING), TENSION
5	*3-333-069-21	COVER (LEFT), SIDE
6	X-3329-589-1	CASE ASSY, UPPER
7	3-831-441-11	CUSHION
8	*3-333-070-21	COVER (RIGHT), SIDE
9	3-333-065-01	RETAINER, 18P CONNECTOR
11	*3-333-078-31	CASE, BOTTOM
12	*3-348-726-01	PLATE (VA), SHIELD
13	*3-333-066-01	SHEET (LARGE), INSULATING
14	*3-348-750-01	CUSHION (DAMPER)
15	*3-333-073-01	SHEET (SMALL), INSULATING
16	*3-348-743-01	BRACKET (O DAMPER RIGHT)
17	7-682-546-09	SCREW +B 3x5
18	7-685-133-19	SCREW +BTP 2.6x6 TYPE2 N-S
19	3-348-749-01	WASHER (TEFLON)
20	7-621-770-87	SCREW +BVTT 2.6x5 (S)
21	*3-343-739-01	PLATE, PROTECTION, FLEXIBLE
22	*3-348-765-01	PLATE (SMALL), SHIELD
23	*3-348-766-01	PLATE (5A), SHIELD
901	*A-3265-018-A	MOUNTED PCB, JACK
902	*A-3265-019-A	MOUNTED PCB, RF
916	1-623-641-11	PC BOARD, RF FLEXIBLE
917	1-623-642-12	PC BOARD, TRANSLATION FLEXIBLE
918	1-559-439-11	CORD (WITH CONNECTOR)

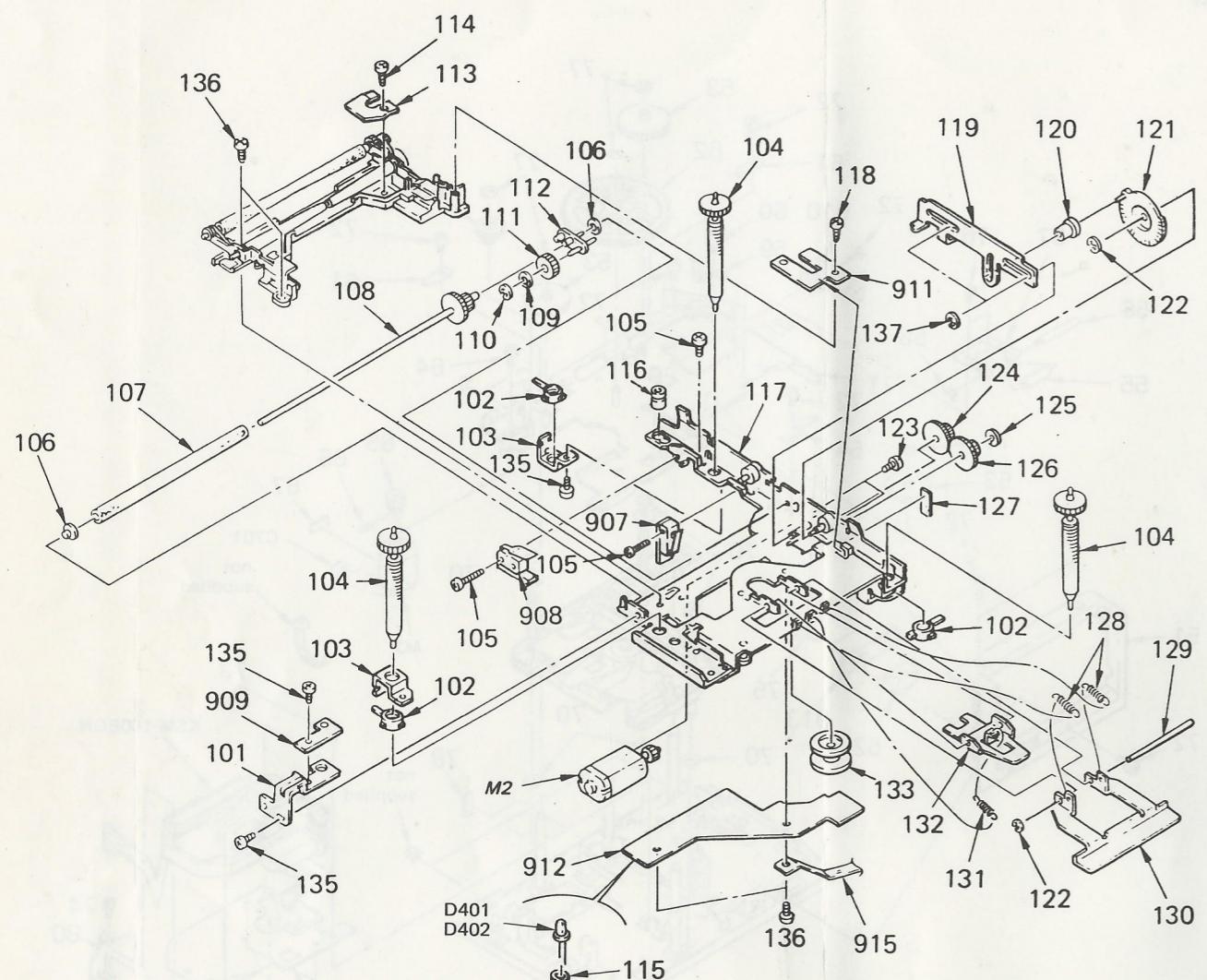
REF. NO.	PART NO.	DESCRIPTION
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51	3-343-724-03	ESCUTCHEON
52	3-343-712-01	BUTTON, EJECT
53	3-331-916-02	GEAR (MIDDLE), ELEVATOR
54	*3-333-082-01	RETAINER, SCREW, FEED
55	3-343-708-01	ROLLER, MAGAZINE
56	*3-343-711-01	SHAFT, ROLLER, MAGAZINE
57	3-343-710-02	SPRING
58	7-624-102-04	STOP RING 1.5, TYPE-E
59	3-343-709-02	SPRING
60	7-621-775-00	SCREW +B 2.6 x 3
61	3-331-907-01	RETAINER, SCREW, FEED
62	3-331-952-02	GEAR (LARGE), ELEVATOR
63	3-343-707-01	GEAR (SMALL), ELEVATOR
64	7-682-144-01	SCREW +P 3 x 3
65	4-917-404-02	GEAR, MOTOR

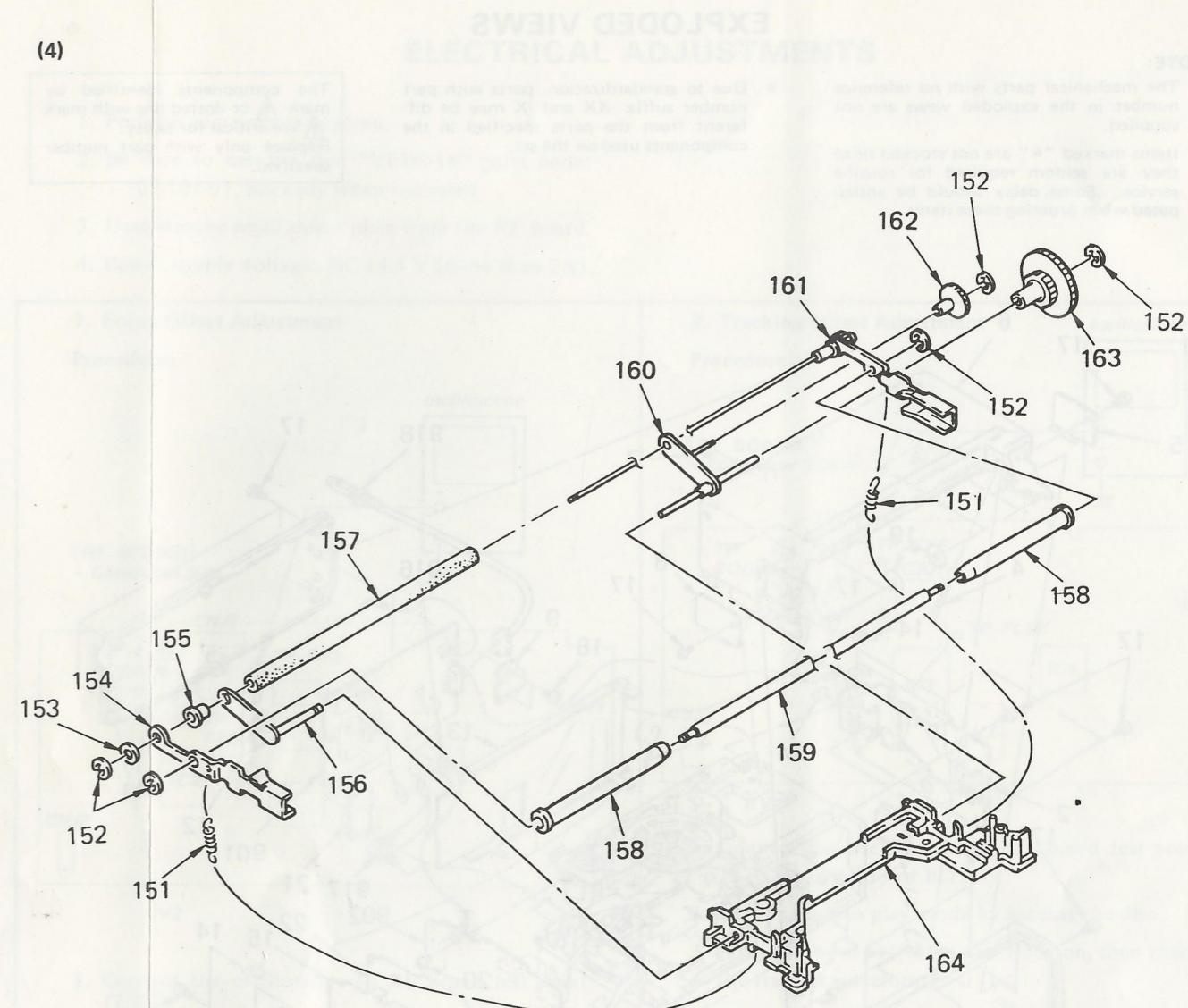
REF. NO.	PART NO.	DESCRIPTION
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66	7-621-731-08	SET-SCT, HEX. 2x2.5, FLAT POINT
67	3-831-441-11	CUSHION
68	*3-343-714-03	BRACKET, FOP
70	3-333-081-01	BEARING (UPPER & LOWER)
71	*X-3329-567-4	PLATE ASSY, TOP
72	7-685-791-09	SCREW +BVTT 2.6 x 5 (S)
73	7-621-255-25	SCREW +BVTT 2 x 4 (S)
74	7-685-103-14	SCREW +P 2 x 5 TYPE 2 NON-SLIT
75	7-685-132-19	SCREW +P 2.6 x 5 TYPE 2 NON-SLIT
76	7-627-553-17	PRECISION SCREW +P 2 x 2 TYPE 3
80	*3-343-741-01	PLATE, GROUND
77	7-624-118-04	RING, RETAINING E-2.5
78	3-568-749-00	CUSHION, ECM
79	3-348-767-01	SPRING (MOTOR GROUND)
910	*1-622-793-12	PC BOARD, EHS
913	*1-622-796-12	PC BOARD, EJECT
C701	1-136-165-11	CAP, METALIZED FILM 0.1 MF
M3	1-541-309-11	MOTOR, L (RF-370C)

(3)



(4)


REF. NO. PARTS NO. DESCRIPTION

101	*3-333-092-01	BRACKET (S), PHOTO
102	3-329-560-01	SCREW, M6
103	*3-329-570-03	PLATE, SCREW
104	X-3329-554-1	SCREW ASSY, FEED
105	7-621-772-40	SCREW +B 2 x 8
106	3-329-558-01	BEARING, MAIN ROLLER
107	3-323-231-02	ROLLER (LOWER)
108	X-3329-520-1	SHAFT (LOWER) ASSY, ROLLER
109	3-329-553-01	SPRING, E
110	3-321-813-11	WASHER, COTTER POLYETHYLENE

REF. NO. PART NO. DESCRIPTION

122	7-624-102-04	STOP RING 1.5, TYPE-E
123	7-621-255-10	SCREW +P 2 x 3
124	3-333-099-02	GEAR (A)
125	3-895-818-01	WASHER, POLYETHYLENE, COTTER
126	3-343-701-02	GEAR (B)
127	3-831-441-11	CUSHION
128	3-571-823-01	SPRING, TENSION
129	3-333-098-03	SHAFT, DISK CHUCK
130	*X-3329-566-1	STOPPER ASSY, CD
131	3-535-369-XX	SPRING, TENSION
132	3-343-718-02	BRACKET, DISK CHUCK
133	3-343-717-02	PLATE (M), CHUCK
135	7-621-255-25	SCREW +BVTT 2 x 4 (S)
136	7-685-791-09	SCREW +BVTT 2.6 x 5 (S)
137	7-624-104-04	STOP RING 2.0, TYPE-E

907	*1-622-790-12	PC BOARD, MI
908	*1-622-791-12	PC BOARD, CB
909	*1-622-792-13	PC BOARD, DPT
911	*1-622-794-13	PC BOARD, DOE
912	*1-622-795-11	PC BOARD, LED
915	1-623-640-11	PC BOARD, MD FLEXIBLE
M2	X-3329-560-02	MOTOR ASSY, M2

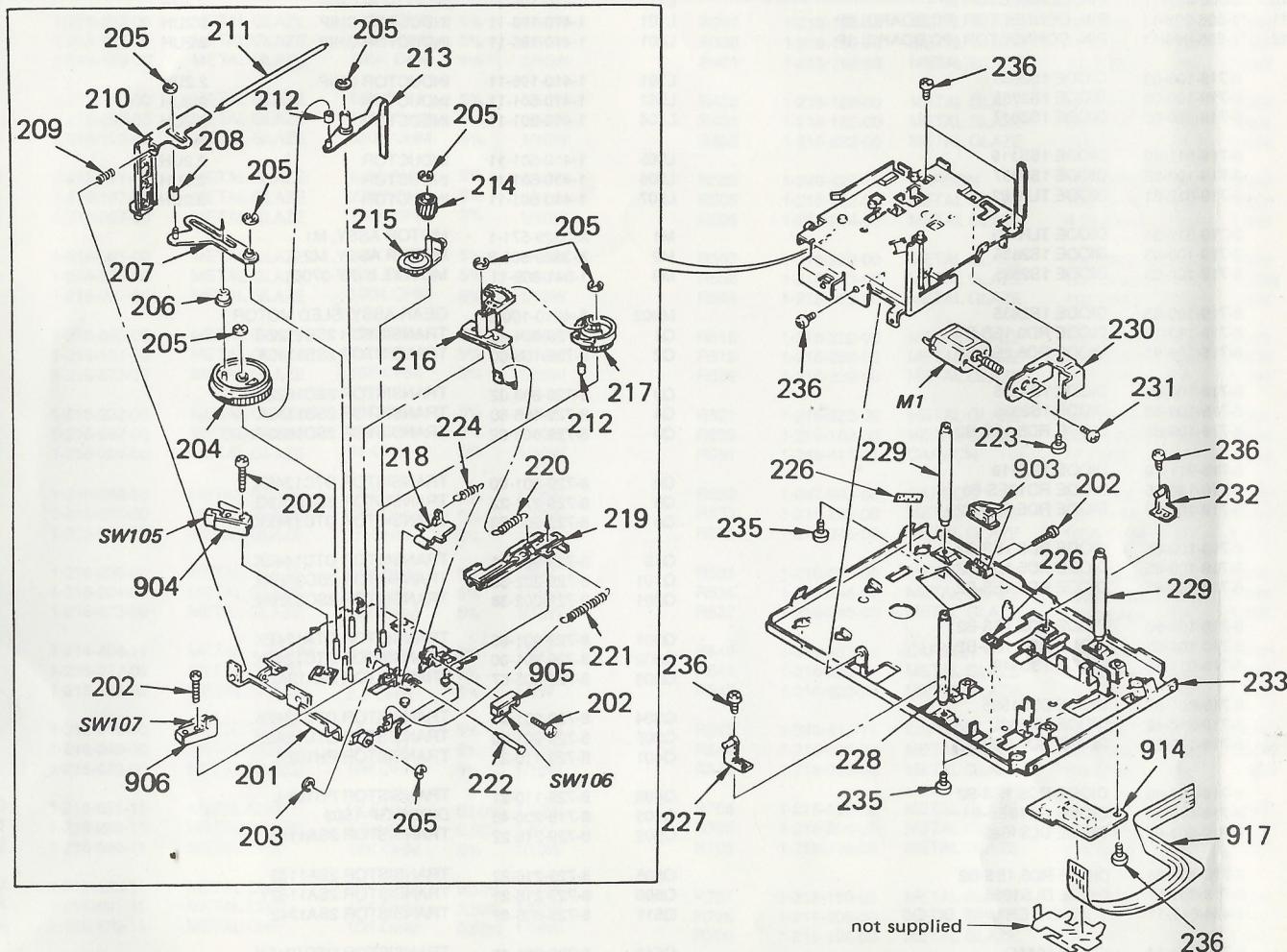
REF. NO. PART NO. DESCRIPTION

151	3-547-665-01	SPRING, TENSION
152	7-624-102-04	STOP RING 1.5, TYPE-E
153	3-310-958-00	WASHER (R)
154	3-343-706-01	LINK, DISK
155	*3-331-925-01	BEARING, ROLLER STOPPER
156	*X-3329-517-1	LEVER (F) ASSY, LINK
157	3-323-231-02	ROLLER (LOWER)

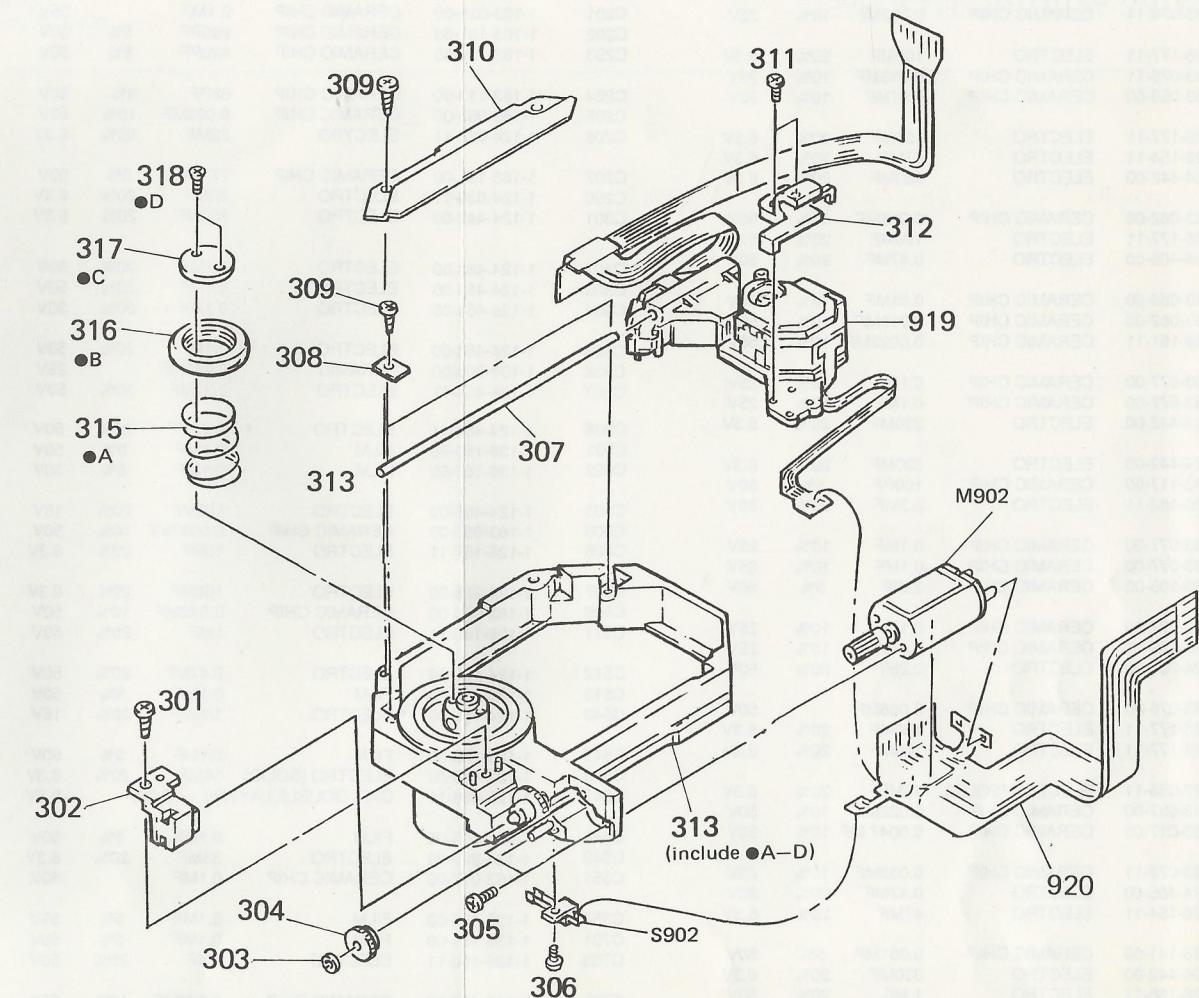
REF. NO. PART NO. DESCRIPTION

158	X-3329-518-1	ROLLER (UPPER) ASSY
159	*3-329-552-01	SHAFT, SIDE ROLLER
160	*X-3329-516-1	LEVER (B) ASSY, LINK
161	X-3329-561-1	SHAFT (UPPER) ASSY, ROLLER
162	3-331-924-01	GEAR (G), ROLLER
163	3-331-914-02	GEAR, ROLLER 3 STEP
164	3-331-957-07	GUIDE, DISK

(5)



(6) OPTICAL PICK-UP BLOCK (KSM-160BAN)



REF. NO.	PART NO.	DESCRIPTION
201	*X-3329-563-1	CHASSIS ASSY, PACK
202	7-685-855-01	+BVTT 2 x 10 (S)
203	7-624-102-04	STOP RING 1.5, TYPE-E
204	X-3329-513-1	GEAR ASSY, CAM
205	7-624-104-04	STOP RING 2.0, TYPE-E
206	3-331-905-01	ROLLER (A)
207	*X-3329-507-3	LEVER ASSY, LINEAR
208	3-331-927-01	ROLLER, LINEAR LEVER
209	3-568-315-01	SPRING, COMPRESSION
210	X-3329-558-1	SLIDER ASSY, LINEAR
211	3-331-904-01	SHAFT, LINEAR SLIDER
212	3-329-580-01	ROLLER, CAM
213	*X-3329-510-6	LEVER ASSY, SLIDER SET
214	3-333-088-01	WHEEL, WORM
215	X-3329-557-1	GEAR ASSY
216	X-3329-511-5	LEVER ASSY, SOFT EJECT
217	3-331-951-01	GEAR (2), EJECT CAM
218	3-333-087-01	HOOK, BACK LOCK
219	*3-331-913-01	EJECTOR (2), SOFT
220	3-343-723-01	SPRING, TENSION
221	3-634-191-XX	SPRING, TENSION
222	*3-329-573-01	SHAFT, LOCK HOOK

REF. NO.	PART NO.	DESCRIPTION
223	7-628-253-95	SCREW +PS 2.6 x 4
224	3-535-369-XX	SPRING, TENSION
226	3-831-441-11	CUSHION
227	*X-3329-555-1	OPENER ASSY (A)
228	*3-333-084-02	SHAFT (B), FIXED, E
229	*3-333-083-03	SHAFT (A), FIXED, E
230	*3-343-715-01	PLATE, FIXED, MOTOR
231	7-621-775-00	SCREW +P 2.6 x 3
232	*X-3329-556-1	OPENER ASSY (B)
233	*X-3329-568-9	CHASSIS ASSY, BOTTOM
235	7-682-546-09	SCREW +B 3 x 5
236	7-685-791-09	SCREW +BVTT 2.6 x 5 (S)
903	*1-617-987-13	PC BOARD, COMMON
904	*1-622-787-12	PC BOARD, LOT
905	*1-622-788-12	PC BOARD, PS
906	*1-622-789-12	PC BOARD, EJ
914	*1-622-797-14	PC BOARD, TRANSLATION
915	1-623-640-11	PC BOARD, MD FLEXIBLE
SW105	1-570-504-11	SWITCH, MICRO (LOT)
SW106	1-570-504-11	SWITCH, MICRO (PST)
SW107	1-570-504-11	SWITCH, MICRO (EJECT)
M1	X-3329-571-2	MOTOR ASSY

REF. NO.	PART NO.	DESCRIPTION
301	7-685-104-19	SCREW +P 2x6 TYPE 2 NON-SLIT
302	X-2640-611-1	RETAINER ASSY, THRUST
303	3-321-813-01	WASHER, COTTER POLYETHYLENE
304	2-640-625-02	GEAR (B)
305	7-627-553-37	PRECISION SCREW +P 2x3 TYPE 3
306	2-640-620-03	SCREW (B) (1.4x3), TAPPING
307	2-640-632-01	SHAFT, GUIDE
308	2-640-645-01	RETAINER, GUIDE SHAFT
309	7-685-102-19	SCREW +P 2x4 TYPE 2 NON-SLIT
310	2-640-623-01	COVER, MD

REF. NO.	PART NO.	DESCRIPTION
311	7-627-852-17	SCREW +P 1.7x4
312	2-640-654-03	GUIDE (D), FEED
313	A-4910-196-A	SCREW BLOCK ASSY, SLED MD
315	2-640-617-02	SPRING, COMPRESSION
316	2-640-650-02	STOPPER, RING
317	2-643-418-01	RING, CENTER
318	7-627-451-17	SCREW, PRECISION +K 1.4x2.5
919	▲ 8-848-067-01	PICKUP, OPTICS KSS-160B
920	1-630-551-11	PC BOARD, ML2 FLEXIBLE
M902	A-4910-100-B	GEAR ASSY, SLED MOTOR
S002	1-551-028-11	SWITCH, LEAF

ELECTRICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION					
C1	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	C201	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C2	1-126-177-11	ELECTRO	100MF	20%	6.3V	C202	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C3	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	C203	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C4	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V	C204	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C5	1-126-177-11	ELECTRO	100MF	20%	6.3V	C205	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C6	1-126-154-11	ELECTRO	47MF	20%	6.3V	C206	1-124-638-11	ELECTRO	22MF	20%	6.3V
C7	1-124-442-00	ELECTRO	330MF	20%	6.3V	C207	1-163-191-00	CERAMIC CHIP	270PF	5%	50V
C8	1-163-062-00	CERAMIC CHIP	0.018MF	10%	50V	C250	1-124-638-11	ELECTRO	22MF	20%	6.3V
C9	1-126-177-11	ELECTRO	100MF	20%	6.3V	C301	1-124-442-00	ELECTRO	330MF	20%	6.3V
C10	1-124-465-00	ELECTRO	0.47MF	20%	50V	C302	1-124-463-00	ELECTRO	0.1MF	20%	50V
C11	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V	C303	1-124-463-00	ELECTRO	0.1MF	20%	50V
C12	1-163-062-00	CERAMIC CHIP	0.018MF	10%	50V	C304	1-124-463-00	ELECTRO	0.1MF	20%	50V
C13	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	C305	1-124-463-00	ELECTRO	0.1MF	20%	50V
C14	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C306	1-101-005-00	CERAMIC	0.022MF	25V	
C15	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C307	1-124-464-11	ELECTRO	0.22MF	20%	50V
C16	1-124-442-00	ELECTRO	330MF	20%	6.3V	C308	1-124-464-11	ELECTRO	0.22MF	20%	50V
C17	1-124-442-00	ELECTRO	330MF	20%	6.3V	C501	1-136-165-00	FILM	0.1MF	5%	50V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C502	1-136-165-00	FILM	0.1MF	5%	50V
C19	1-126-162-11	ELECTRO	3.3MF	20%	35V	C503	1-124-455-00	ELECTRO	100MF	20%	16V
C20	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C505	1-163-055-00	CERAMIC CHIP	0.0047MF	10%	50V
C21	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C506	1-126-157-11	ELECTRO	10MF	20%	6.3V
C22	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C507	1-124-225-00	ELECTRO	100MF	20%	6.3V
C23	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C508	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C24	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C511	1-126-160-11	ELECTRO	1MF	20%	50V
C25	1-124-257-00	ELECTRO	2.2MF	20%	50V	C512	1-124-465-00	ELECTRO	0.47MF	20%	50V
C26	1-163-076-00	CERAMIC CHIP	0.068MF		50V	C513	1-136-165-00	FILM	0.1MF	5%	50V
C27	1-126-177-11	ELECTRO	100MF	20%	6.3V	C542	1-124-455-00	ELECTRO	100MF	20%	16V
C28	1-126-177-11	ELECTRO	100MF	20%	6.3V	C543	1-136-165-00	FILM	0.1MF	5%	50V
C29	1-127-558-11	ELECTRO (SOLID)	10MF	20%	6.3V	C546	1-127-489-00	ELECTRO (SOLID)	10MF	20%	6.3V
C30	1-163-037-00	CERAMIC CHIP	0.022MF	10%	50V	C547	1-125-486-11	CAP, DOUBLE LAYERS	0.22F		5.5V
C31	1-163-017-00	CERAMIC CHIP	0.0047 MF	10%	50V	C548	1-136-165-00	FILM	0.1MF	5%	50V
C32	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	C549	1-124-229-00	ELECTRO	33MF	20%	6.3V
C33	1-124-465-00	ELECTRO	0.47MF	20%	50V	C551	1-163-077-00	CERAMIC CHIP	0.1MF	20%	50V
C34	1-126-154-11	ELECTRO	47MF	20%	6.3V	C552	1-136-165-00	FILM	0.1MF	5%	50V
C35	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C701	1-136-165-00	FILM	0.1MF	5%	50V
C36	1-124-442-00	ELECTRO	330MF	20%	6.3V	C703	1-126-160-11	ELECTRO	1MF	20%	50V
C37	1-126-160-11	ELECTRO	1 MF	20%	50V	C705	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C38	1-126-160-11	ELECTRO	1MF	20%	50V	C706	1-126-247-11	ELECTRO	560MF	20%	6.3V
C39	1-127-558-11	ELECTRO (SOLID)	10MF	20%	6.3V	C707	1-126-247-11	ELECTRO	560MF	20%	6.3V
C40	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C710	1-124-119-11	ELECTRO	330MF	20%	16V
C41	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C718	1-126-157-11	ELECTRO	10MF	20%	6.3V
C44	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	C719	1-124-229-00	ELECTRO	33MF	20%	6.3V
C47	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C720	1-124-755-11	ELECTRO	3300MF	20%	16V
C48	1-124-442-00	ELECTRO	330MF	20%	6.3V	C721	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C49	1-124-442-00	ELECTRO	330MF	20%	6.3V	CN301	1-506-914-11	PIN, CONNECTOR 2P			
C50	1-127-558-11	ELECTRO (SOLID)	10MF	20%	6.3V	CNJ1	*1-566-776-11	SOCKET, CONNECTOR 12P			
C51	1-124-987-11	ELECTRO	3300MF	20%	6.3V	CNJ2	*1-568-509-11	HOUSING, CONNECTOR 11P			
C52	1-124-987-11	ELECTRO	3300MF	20%	6.3V	CNJ4	*1-566-887-11	SOCKET, CONNECTOR 18P			
C53	1-124-442-00	ELECTRO	330MF	20%	6.3V	CNJ401	*1-566-887-11	SOCKET, CONNECTOR 18P			
C55	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	CNJ402	*1-566-888-11	SOCKET, CONNECTOR 10P			
C56	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	CNJ501	1-566-907-11	PIN, CONNECTOR 18P			
C58	1-126-160-11	ELECTRO	1MF	20%	50V	CNJ502	*1-566-887-11	SOCKET, CONNECTOR 18P			
C59	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	CNJ503	*1-566-887-11	SOCKET, CONNECTOR 18P			
C60	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	CNJ504	*1-563-912-11	SOCKET, CONNECTOR 4P			
C100	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	CNP201	*1-566-001-11	PIN, CONNECTOR (PC BOARD) 4P			
C101	1-163-038-00	CERAMIC CHIP	0.1MF		25V	CNP401	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
C102	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	CNP402	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
C103	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	CNP403	*1-506-984-31	PIN, CONNECTOR (PC BOARD) 2P			
C104	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	CNP404	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P			
C105	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V	CNP405	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P			
C106	1-124-638-11	ELECTRO	22MF	20%	6.3V	CNP406	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P			
C107	1-163-191-00	CERAMIC CHIP	270PF	5%	50V	CNP408	*1-564-012-11	PIN, CONNECTOR 2P			
C150	1-124-638-11	ELECTRO	22MF	20%	6.3V	CNP409	1-506-467-11	PIN, CONNECTOR 2P			
C200	1-163-101-00	CERAMIC CHIP	22PF		25V						

REF. NO.	PART NO.	DESCRIPTION				REF. NO.	PART NO.	DESCRIPTION			
CNP410	1-506-467-11	PIN, CONNECTOR 2P				L11	1-410-196-11	INDUCTOR CHIP		2.2UH	
CNP411	*1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P				L101	1-410-196-11	INDUCTOR CHIP		2.2UH	
CNP412	*1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P				L201	1-410-196-11	INDUCTOR CHIP		2.2UH	
D1	8-719-100-03	DIODE 1S2835				L301	1-410-196-11	INDUCTOR CHIP		2.2UH	
D301	8-719-100-03	DIODE 1S2835				L501	1-410-501-11	INDUCTOR		2.2UH	
D302	8-719-100-05	DIODE 1S2837				L504	1-410-501-11	INDUCTOR		2.2UH	
D303	8-719-911-19	DIODE 1SS119				L505	1-410-501-11	INDUCTOR		2.2UH	
D304	8-719-100-05	DIODE 1S2837				L506	1-410-501-11	INDUCTOR		2.2UH	
D401	8-719-812-31	DIODE TLR123				L507	1-410-501-11	INDUCTOR		2.2UH	
D402	8-719-812-31	DIODE TLR123				M1	X-3329-571-1	MOTOR ASSY, M1			
D403	8-719-100-03	DIODE 1S2835				M2	X-3329-560-2	MOTOR ASSY, M2			
D404	8-719-100-03	DIODE 1S2835				M3	1-541-309-11	MOTOR, L (RF-370C)			
D405	8-719-100-03	DIODE 1S2835				M902	A-4910-100-B	GEAR ASSY, SLED MOTOR			
D501	8-719-110-12	DIODE RD9.1ES-B1				Q1	8-729-804-42	TRANSISTOR 2SB1122-T			
D502	8-719-109-93	DIODE RD6.2ES-B2				Q2	8-729-106-60	TRANSISTOR 2SB1115A			
D503	8-719-100-03	DIODE 1S2835				Q3	8-729-808-02	TRANSISTOR 2SD1622-R-TC			
D505	8-719-100-03	DIODE 1S2835				Q4	8-729-106-60	TRANSISTOR 2SB1115A			
D507	8-719-109-85	DIODE RD5.1ES-B2				Q5	8-729-808-02	TRANSISTOR 2SD1622-R-TC			
D508	8-719-911-19	DIODE 1SS119				Q6	8-729-901-00	TRANSISTOR DTC124EK			
D509	8-719-110-35	DIODE RD13ES-B1				Q8	8-729-271-22	TRANSISTOR 2SC2712G			
D511	8-719-109-85	DIODE RD5.1ES-B2				Q9	8-729-900-53	TRANSISTOR DTC114EK			
D512	8-719-109-85	DIODE RD5.1ES-B2				Q10	8-729-901-01	TRANSISTOR DTC144EK			
D513	8-719-109-85	DIODE RD5.1ES-B2				Q101	8-729-202-38	TRANSISTOR 2SC3326N			
D514	8-719-109-85	DIODE RD5.1ES-B2				Q201	8-729-202-38	TRANSISTOR 2SC3326N			
D515	8-719-109-85	DIODE RD5.1ES-B2				Q301	8-729-901-05	TRANSISTOR DTA124EK			
D516	8-719-109-85	DIODE RD5.1ES-B2				Q302	8-729-901-00	TRANSISTOR DTC124EK			
D518	8-719-911-19	DIODE 1SS119				Q303	8-729-805-67	TRANSISTOR 2SA1342			
D703	8-719-801-67	DIODE DLS1585				Q304	8-729-901-00	TRANSISTOR DTC124EK			
D704	8-719-910-62	DIODE HZ6A2L				Q305	8-729-901-00	TRANSISTOR DTC124EK			
D705	8-719-109-93	DIODE RD6.2ES-B2				Q401	8-729-110-21	TRANSISTOR PH102-L			
D706	8-719-109-85	DIODE RD5.1ES-B2				Q402	8-729-110-21	TRANSISTOR PH102-L			
D707	8-719-110-48	DIODE RD18ES-B1				Q403	8-719-906-43	DIODE GP-1S03			
D708	8-719-801-67	DIODE DLS1585				Q502	8-729-216-22	TRANSISTOR 2SA1162			
D709	8-719-109-85	DIODE RD5.1ES-B2				Q505	8-729-216-22	TRANSISTOR 2SA1162			
D710	8-719-801-67	DIODE DLS1585				Q506	8-729-216-21	TRANSISTOR 2SA1162Y			
DD1	1-464-848-11	CONVERTER UNIT, DC-DC				Q511	8-729-805-67	TRANSISTOR 2SA1342			
IC1	8-752-033-14	IC CXA1081Q				Q512	8-729-901-00	TRANSISTOR DTC124EK			
IC2	8-752-032-32	IC CXA1182Q-Z				Q513	8-729-805-67	TRANSISTOR 2SA1342			
IC3	8-752-328-62	IC CXD1125Q				Q514	8-729-271-23	TRANSISTOR 2SC2712Y			
IC4	8-759-981-37	IC MB88505H-1023M				Q515	8-729-805-67	TRANSISTOR 2SA1342			
IC5	8-759-821-58	IC LA-6530				Q516	8-729-271-23	TRANSISTOR 2SC2712Y			
IC6	8-752-323-65	IC CXK5816M-15L				Q517	8-729-805-67	TRANSISTOR 2SA1342			
IC7	8-759-946-27	IC CXD1316DM				Q518	8-729-901-00	TRANSISTOR DTC124EK			
IC301	8-759-805-33	IC CXD1161M-2				Q519	8-729-901-00	TRANSISTOR DTC124EK			
IC302	8-759-100-96	IC UPC4558G2				Q520	8-729-805-67	TRANSISTOR 2SA1342			
IC303	8-759-802-48	IC LA6462M				Q523	8-729-271-22	TRANSISTOR 2SC2712G			
IC304	8-759-745-64	IC NJM4560M				Q524	8-729-805-67	TRANSISTOR 2SA1342			
IC501	8-759-802-32	IC LB1649				Q704	8-729-901-00	TRANSISTOR DTC124EK			
IC502	8-759-940-47	IC S-8054HN-CB-S				Q705	8-729-804-42	TRANSISTOR 2SB1122-T			
IC503	8-757-991-00	IC CX-7991				Q706	8-729-271-22	TRANSISTOR 2SC2712G			
IC505	8-759-112-05	IC UPD7508HG-593-22				Q707	8-729-808-02	TRANSISTOR 2SD1622			
IC507	8-759-802-32	IC LB1649				Q710	8-729-900-53	TRANSISTOR DTC114EK			
JR1	1-216-295-00	METAL GLAZE	0 OHM	5%	1/10W	R1	1-216-081-00	METAL GLAZE	22K OHM	5%	1/10W
JR2	1-216-296-00	METAL GLAZE	0 OHM	5%	1/8W	R2	1-216-073-00	METAL GLAZE	10K OHM	5%	1/10W
JR550	1-216-296-00	METAL GLAZE	0 OHM	5%	1/8W	R3	1-216-151-00	METAL GLAZE	11 OHM	5%	1/8W
JR551	1-216-296-00	METAL GLAZE	0 OHM	5%	1/8W	R4	1-216-151-00	METAL GLAZE	11 OHM	5%	1/8W
JR552	1-216-296-00	METAL GLAZE	0 OHM	5%	1/8W	R5	1-216-049-00	METAL GLAZE	1K OHM	5%	1/10W
L1	1-410-501-11	INDUCTOR	2.2UH			R6	1-216-057-00	METAL GLAZE	2.2K OHM	5%	1/10W
L3	1-410-501-11	INDUCTOR	2.2UH			R7	1-216-076-00	METAL GLAZE	13K OHM	5%	1/10W
L4	1-410-316-11	INDUCTOR	1UH			R8	1-216-097-00	METAL GLAZE	100K OHM	5%	1/10W
L7	1-410-196-11	INDUCTOR CHIP	2.2UH			R9	1-216-074-00	METAL GLAZE	11K OHM	5%	1/10W
L8	1-410-196-11	INDUCTOR CHIP	2.2UH			R10	1-216-113-00	METAL GLAZE	470K OHM	5%	1/10W
L10	1-410-501-11	INDUCTOR	2.2UH			R11	1-216-097-00	METAL GLAZE	100K OHM	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R12	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W	R307	1-216-150-00	METAL GLAZE	10 OHM 5% 1/8W
R13	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W	R308	1-216-150-00	METAL GLAZE	10 OHM 5% 1/8W
R14	1-216-109-00	METAL GLAZE	330K OHM 5% 1/10W	R401	1-216-182-00	METAL GLAZE	220 OHM 5% 1/8W
R15	1-216-093-00	METAL GLAZE	68K OHM 5% 1/10W	R402	1-216-182-00	METAL GLAZE	220 OHM 5% 1/8W
R16	1-216-099-00	METAL GLAZE	120K OHM 5% 1/10W	R403	1-216-182-00	METAL GLAZE	220 OHM 5% 1/8W
R17	1-216-117-00	METAL GLAZE	680K OHM 5% 1/10W	R502	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R18	1-216-071-00	METAL GLAZE	8.2K OHM 5% 1/10W	R503	1-249-429-11	CARBON	10K OHM 5% 1/4W
R19	1-216-107-00	METAL GLAZE	270K OHM 5% 1/10W	R505	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R20	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W	R506	1-216-214-00	METAL GLAZE	4.7K OHM 5% 1/8W
R21	1-216-061-00	METAL GLAZE	3.3K OHM 5% 1/10W	R507	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R22	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	R508	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W
R23	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W	R516	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R24	1-216-080-00	METAL GLAZE	20K OHM 5% 1/10W	R518	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R25	1-216-121-00	METAL GLAZE	1M OHM 5% 1/10W	R519	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R27	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	R520	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R28	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W	R521	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R29	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W	R530	1-216-182-00	METAL GLAZE	220 OHM 5% 1/8W
R40	1-216-024-00	METAL GLAZE	91 OHM 5% 1/10W	R531	1-249-417-11	CARBON	1K OHM 5% 1/4W
R41	1-216-049-00	METAL GLAZE	1K OHM 5% 1/10W	R532	1-247-903-00	CARBON	1K OHM 5% 1/4W
R42	1-216-081-00	METAL GLAZE	22K OHM 5% 1/10W	R533	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R43	1-216-049-00	METAL GLAZE	1K OHM 5% 1/10W	R534	1-216-246-00	METAL GLAZE	100K OHM 5% 1/8W
R44	1-216-230-00	METAL GLAZE	22K OHM 5% 1/8W	R535	1-216-246-00	METAL GLAZE	100K OHM 5% 1/8W
R45	1-216-001-00	METAL GLAZE	10 OHM 5% 1/10W	R536	1-216-246-00	METAL GLAZE	100K OHM 5% 1/8W
R50	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	R537	1-216-246-00	METAL GLAZE	100K OHM 5% 1/8W
R51	1-214-804-11	METAL 3.3 OHM	3.3 OHM 1% 1/2W	R540	1-249-437-11	CARBON	47K OHM 5% 1/4W
R52	1-216-077-00	METAL GLAZE	15K OHM 5% 1/10W	R541	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R53	1-216-138-00	METAL GLAZE	3.3 OHM 5% 1/8W	R542	1-216-222-00	METAL GLAZE	10K OHM 5% 1/8W
R55	1-216-049-00	METAL GLAZE	1K OHM 5% 1/10W	R543	1-249-417-11	CARBON	1K OHM 5% 1/4W
R56	1-216-049-00	METAL GLAZE	1K OHM 5% 1/10W	R544	1-216-025-00	METAL GLAZE	100 OHM 5% 1/10W
R58	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	R545	1-216-025-00	METAL GLAZE	100 OHM 5% 1/10W
R100	1-216-651-11	METAL CHIP	1K OHM 0.50% 1/10W	R704	1-216-198-00	METAL GLAZE	1K OHM 5% 1/8W
R101	1-216-288-11	METAL GLAZE	5.6M OHM 0.50% 1/8W	R705	1-216-206-00	METAL GLAZE	2.2K OHM 5% 1/8W
R102	1-216-680-11	METAL CHIP	16K OHM 5% 1/10W	R706	1-216-238-00	METAL GLAZE	47K OHM 5% 1/8W
R103	1-216-683-11	METAL CHIP	22K OHM 0.50% 1/10W	R707	1-216-190-00	METAL GLAZE	470 OHM 5% 1/8W
R104	1-216-691-11	METAL CHIP	47K OHM 0.50% 1/10W	R708	1-216-206-00	METAL GLAZE	2.2K OHM 5% 1/8W
R105	1-216-679-11	METAL CHIP	15K OHM 0.50% 1/10W	R709	1-216-198-00	METAL GLAZE	1K OHM 5% 1/8W
R106	1-216-657-11	METAL CHIP	1.8K OHM 0.50% 1/10W	R710	1-216-238-00	METAL GLAZE	47K OHM 5% 1/8W
R107	1-216-001-00	METAL GLAZE	10 OHM 5% 1/10W	R711	1-216-206-00	METAL GLAZE	2.2K OHM 5% 1/8W
R108	1-216-643-11	METAL CHIP	470 OHM 0.50% 1/10W	R713	1-214-792-00	METAL	1 OHM 1% 1/2W
R109	1-216-113-00	METAL GLAZE	470K OHM 5% 1/10W	RV1	1-228-995-00	RES, ADJ, CARBON	22K OHM
R110	1-216-065-00	METAL GLAZE	4.7K OHM 5% 1/10W	RV2	1-228-996-00	RES, ADJ, CARBON	47K OHM
R112	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	RV3	1-228-995-00	RES, ADJ, CARBON	22K OHM
R113	1-216-677-11	METAL CHIP	12K OHM 0.50% 1/10W	RV4	1-228-995-00	RES, ADJ, CARBON	22K OHM
R114	1-216-675-11	METAL CHIP	10K OHM 0.50% 1/10W	RV5	1-228-991-00	RES, ADJ, CARBON	2.2K OHM
R115	1-216-627-11	METAL CHIP	100 OHM 0.50% 1/10W	RY300	1-515-614-11	RELAY	
R200	1-216-651-11	METAL CHIP	1K OHM 0.50% 1/10W	S902	1-554-938-11	SWITCH, LEAF	
R201	1-216-288-11	METAL GLAZE	5.6M OHM 5% 1/8W	SW101	1-554-813-41	SWITCH, KEY BOARD	
R202	1-216-680-11	METAL CHIP	16K OHM 0.50% 1/10W	SW102	1-570-503-12	SWITCH, MICRO (CBP)	
R203	1-216-683-11	METAL CHIP	22K OHM 0.50% 1/10W	SW103	1-570-502-11	SWITCH, MICRO (MI)	
R204	1-216-691-11	METAL CHIP	47K OHM 0.50% 1/10W	SW104	1-570-504-11	SWITCH, MICRO (HOME)	
R205	1-216-679-11	METAL CHIP	15K OHM 0.50% 1/10W	SW105	1-570-504-11	SWITCH, MICRO (LOT)	
R206	1-216-657-11	METAL CHIP	1.8K OHM 0.50% 1/10W	SW106	1-570-504-11	SWITCH, MICRO (PST)	
R207	1-216-150-00	METAL GLAZE	10 OHM 5% 1/8W	SW107	1-570-504-11	SWITCH, MICRO (EJECT)	
R208	1-216-643-11	METAL CHIP	470 OHM 0.50% 1/10W	TH1	1-807-766-11	THERMISTOR ERT-D2FHJ802T	
R209	1-216-113-00	METAL GLAZE	470K OHM 5% 1/10W	TH2	1-807-776-11	THERMISTOR ERT-D2FHJ802T	
R210	1-216-065-00	METAL GLAZE	4.7K OHM 5% 1/10W	THP501	1-807-368-11	THERMISTOR PTH59F04BG22TS	
R212	1-216-073-00	METAL GLAZE	10K OHM 5% 1/10W	X2	1-567-820-11	VIBRATOR, CRYSTAL 16 Hz	
R213	1-216-677-11	METAL CHIP	12K OHM 0.50% 1/10W	X501	1-567-775-11	VIBRATOR, CERAMIC 4.19 MHz	
R214	1-216-675-11	METAL CHIP	10K OHM 0.50% 1/10W				
R215	1-216-627-11	METAL CHIP	100 OHM 0.50% 1/10W				
R301	1-216-039-00	METAL GLAZE	390 OHM 5% 1/10W				
R304	1-216-097-00	METAL GLAZE	100K OHM 5% 1/10W				
R305	1-216-198-00	METAL GLAZE	1K OHM 5% 1/8W				

NO GND - NO ± SV from DC-DC conv. no trigger in!

check DPT PCB location and LED for illumination!

(SITS RIGHT FRONT OF Routers)