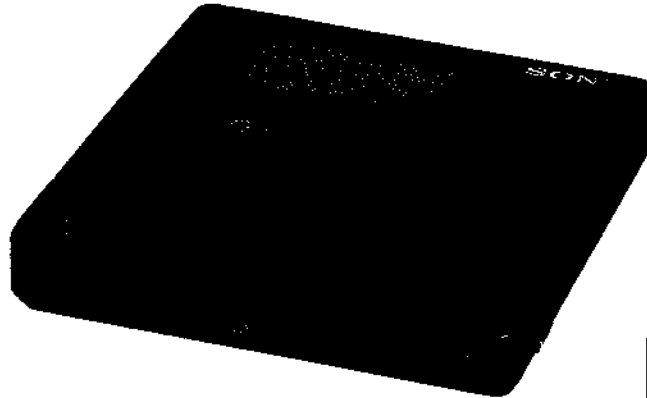


D-35/350

SERVICE MANUAL

*US Model
Canadian Model
D-35*

*AEP Model
UK Model
E Model
Australian Model
D-350*



Discman

Model Name Using Similar Mechanism	New Mechanism
CD Mechanism Name	CDM-350

SPECIFICATIONS

System Compact disc digital audio system

Laser diode properties
 Material: GaAlAs
 Wavelength: 780 nm
 Emission duration: Continuous
 Laser output: Less than 44.6 μ W
 (This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.)

Error correction Sony Super Strategy Cross Interleave Read Solomon Code D-A conversion 16-bit linear 8fs digital filter

Frequency response 20 - 20,000 Hz \pm 1dB (measured by EIAJ CP-307)

Output (at 9 V input level)
 Line output (stereo minijack)
 Output level 0.6 V rms at 50 kilohms
 Load impedance over 10 kilohms
 Headphones (stereo minijack)
 9 mW + 9mW at 16 Ω

Power consumption 1.9 W DC

Dimensions Approx. 127.5 \times 25.2 \times 137.4 mm (5 $\frac{1}{8}$ \times 1 \times 5 $\frac{1}{2}$ in.) (w/h/d) incl. projecting parts and controls

Weight Approx. 390 g (13.8 oz.) net
 Approx. 420 g (14.9 oz.) incl. batteries

Supplied accessories AC power adaptor (1)
 Rechargeable battery (1)
 Battery case (1)
 Lithium battery (1)
 Connecting cord (phono plug \times 2 \leftrightarrow stereo miniplug) (1)
 Stereo ear receiver with remote controller (1)
 Carrying case (1)
 Hand strap (1)

Design and specifications subject to change without notice.

General

Power requirements Supplied:
 • DC IN 9 V jack accepts the Sony AC power adaptor.

Where purchased	Operating voltage
US, Canadian model	120 V AC, 60 Hz
UK, Australian model	240 V AC, 50 Hz
AEP model	220 V AC, 50 Hz
E model	110 - 240 V AC, 50/60 Hz

- Lithium battery (Sony CR 2016)
- Optional:
- DC IN 9 V accepts the Sony CPM-200P/CPM-100P mount plate and CPM-200A/CPM-100A plate arm for use on 12 V car battery.
- DC 3 V two LR6 (size AA) alkaline batteries

CAUTION

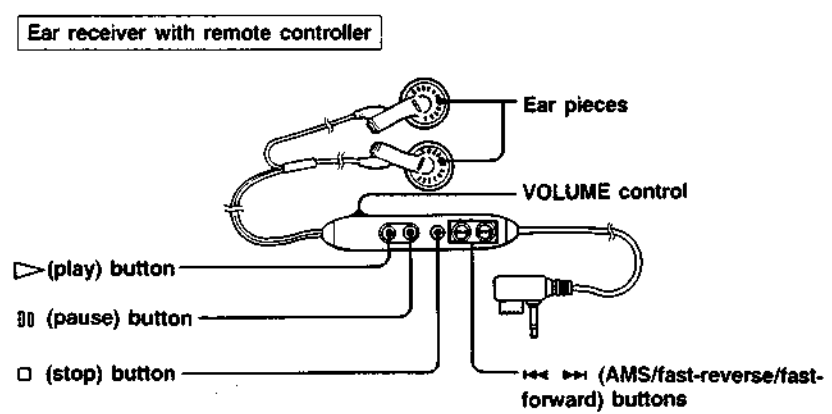
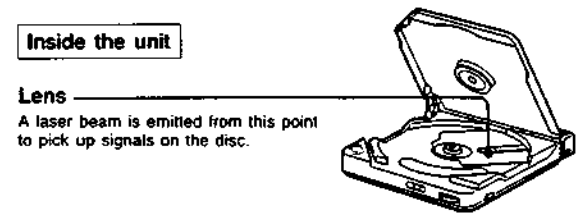
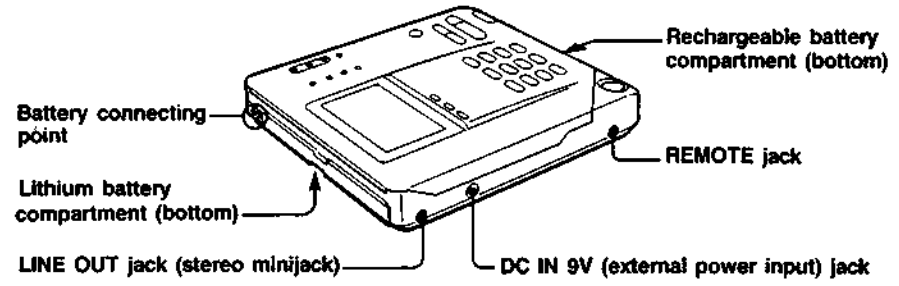
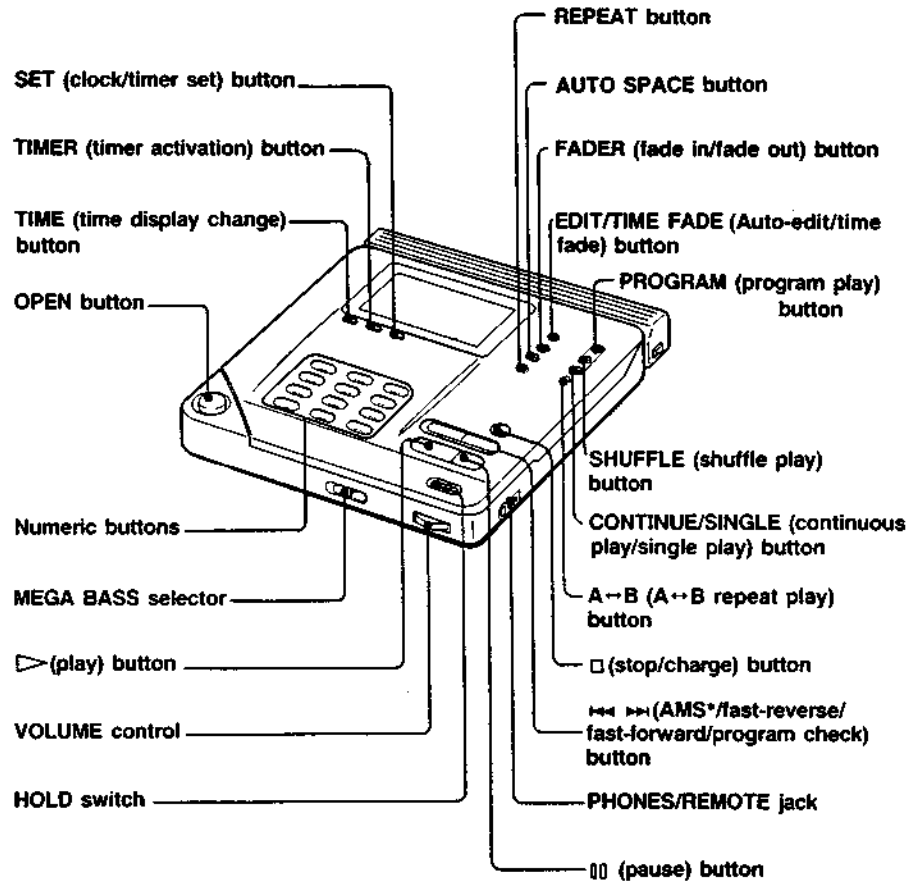
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



COMPACT DISC COMPACT PLAYER

SONY®

Location and Function of Controls



Operating the remote controller
The buttons on the remote controller function in the same way as the corresponding buttons on the unit. You can operate the unit even if the HOLD switch on the unit is set in the direction of the arrow.

*AMS is the abbreviation of Automatic Music Sensor.

To avoid accidental operation
Slide the HOLD switch in the direction of the arrow. An orange indicator appears and the unit cannot be operated. In this case, however, you can operate the unit with the remote controller.

SECTION 2

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK

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.

Flexible Circuit Board Repairing

1. Keep the temperature of the soldering iron at $270^{\circ} \pm 10^{\circ}\text{C}$ during repairing.
2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
3. Do not apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.



Before Replacing the Optical Block

Please be sure to check thoroughly the parameters as per the "Optical Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical block.


Note and specifications required to check are given below.

- FOK output: IC501 ⑨ pin
- S curve P-to-P value: 2.5 Vp-p.
When checking FOK and S curve P-to-P value, remove the lead wire to disc motor and unsolder and open IC801 ⑤ pin.
- RF signal P-to-P value: 0.9 – 1.1 Vp-p
- Traverse signal P-to-P value: 2 Vp-p
- The grating holder can not repair.
- Adjusted part for tracking gain adjustment: RV501

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe, from more than 30 cm away from the objective lens.

Laser Diode Check Procedure

The laser diode on this set will not emit unless the top panel is closed and S901 (push SW type) is turned on. The laser diode will always emit even if focus search is not performed in service mode.

The laser diode is checked using the current value which flows to the laser diode inside the optical pick-up.

Procedure 1 (service mode or normal operation)

1. Open upper panel.
2. S901 on as Fig. 1.
(In service mode, this operation is not necessary.)
3. Observe the objective lens and confirm that the laser diode goes on about 2.5 seconds due to focus search. If it does not, APC circuit or the optical pick-up is defective.

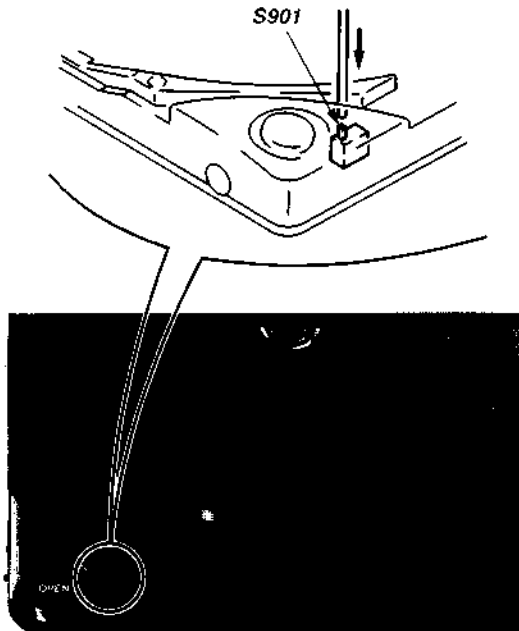
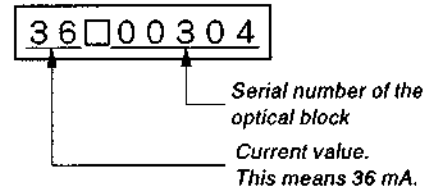


Fig. 1 Turning S901 Connection

Procedure 2 (service mode or normal operation)

Check by the current with flows in the laser diode.

1. Close the top panel.
2. Remove the main board and read the current value on the label affixed to the optical pick-up.
(Label on the flexible board of the optical pick-up)



The current value varies with the sel.

3. Connect a VOM as shown in Fig. 2.
4. Press the \triangleright key.
5. Calculate the current by the VOM reading.
VOM reading (V) \div 10 = current (A)
ex. VOM reading = 0.37 V
 $0.37 \div 10 = 0.037$ (A) = 37 (mA)
6. Confirm that the ammeter reading is within the range given below.

value on label ± 5 mA (25 °C)

variation relative to temperature: 0.4 mA/°C

(Current increases when temperature rises and decreases when it drops.)

If the value is more than the range given, diode has deteriorated. If it is less, APC circuit or the optical pick-up is defective.

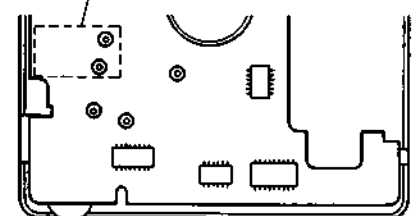
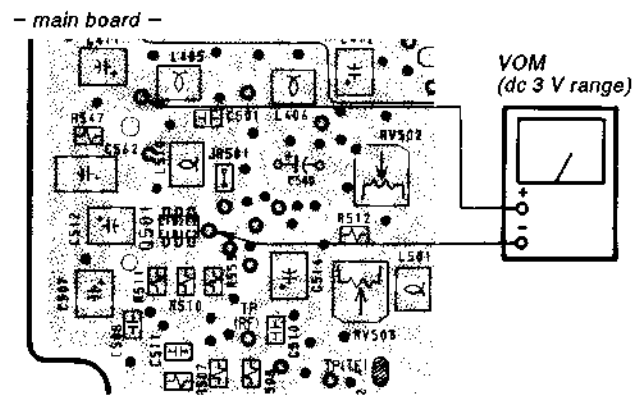
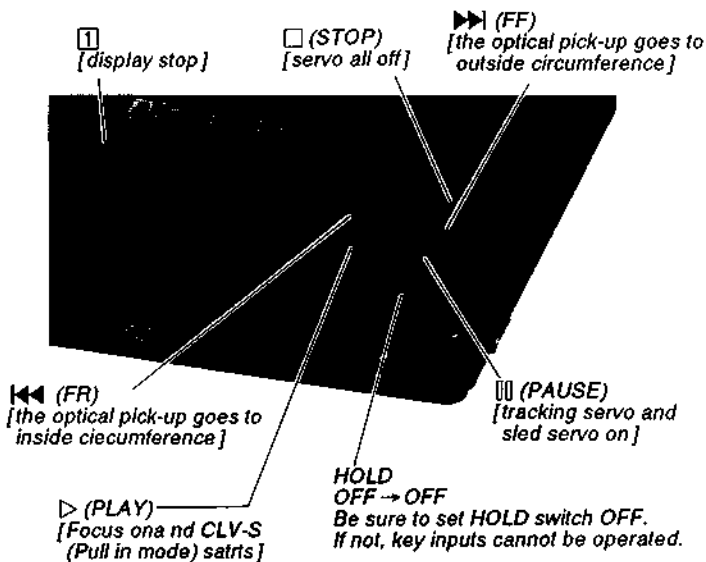


Fig. 2 VOM Connection

SERVICE MODE (service program)

This set has built-in service program in the microcomputer as usual sets.

The operation method of service program is explained below.

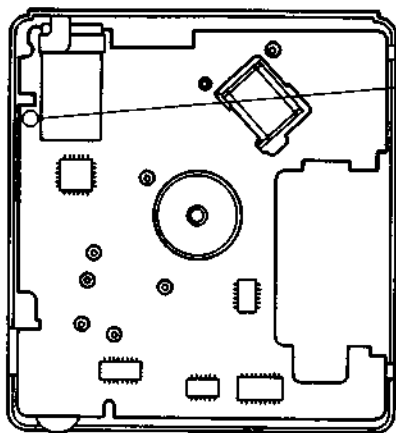


[] : Main operation in service mode for details, refer to step 2.

Fig. 3 Key Positions

Step 1 (Service Mode setting method)

1. Turn the HOLD switch OFF with the external power supply not plugged in (no power applied to set) and press the ▷ key.
2. Solder jumper TEST point. (IC801 pin ① (TEST) pin is grounded.)
3. Plug in external power supply. This puts the set into service mode.

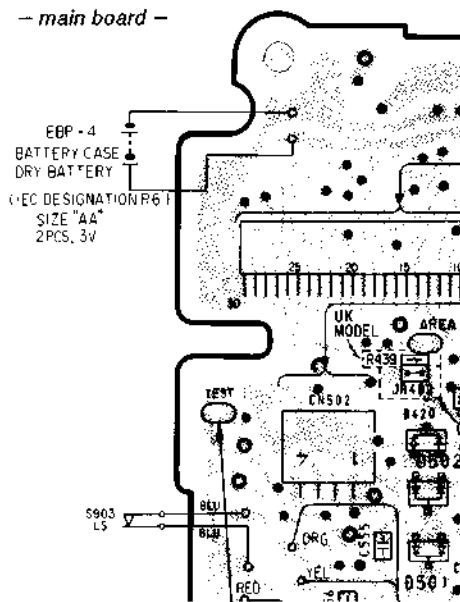


Step 2 (Service Mode operation)

1. When service mode is set, the display will change 6 times, and those 6 changes will be repeated over and over. With this the LCD display should be present in service mode. Even if LCD does not display, other operations will be performed.
2. When ▶▶ or ◀◀ key is pressed, the optical pick-up moves to the inside or outside circumference. Tracking servo and sled servo go off when this is done, so press || to turn on the tracking servo if necessary.
3. When [] is pressed, the display stops. When [] released, the display continues to change. This allows check of each segment.
4. When ▷ key is pressed, CLV-S (pull-in mode) starts while performing focus search. When there is no disc installed, focus search is repeated several times while disc motor is rotating.
5. When || is pressed, tracking servo, sled servo and CLV-A (servo during PLAY) go ON.
6. When 4 and 5 are performed, the disc begins to play. At this time, the top panel should be closed and S901 are to be ON. When S901 is OFF, muting is ON. So there is no sound.
7. All servo (focus, tracking, sled and spindle) go off when [] key is pressed. But disc motor continues rotating for a while by inertia.

Step 3 (Service Mode release)

1. First be sure to unplug the external power supply, then remove the TEST point solder jumper.
2. The set will now operated normally.



TEST terminal
Solder jumper for the service mode.
[After checking or adjusting in the service mode, be sure to remove this solder jumper.]

SECTION 3

ELECTRICAL ADJUSTMENTS

Notes on Adjustment

1. Perform adjustments except for RECHARGEABLE VOLTAGE ADJUSTMENT in service mode. Be sure to release service mode after completing adjustment.
(Refer to "Service Mode (service program)" on page 5.)
2. Perform adjustments in the order given.
3. Use YEDS-18 disc (part No.: 3-702-101-01) unless otherwise indicated.
4. Power supply voltage: DC 9V
HOLD switch: OFF
VOLUME knob: Minimum
MEGA BASS switch: NORM

PREPARATION

Put the set into service mode (see page 5) and perform the following checks. Repair if there are any abnormalities.

• Sled Motor Check

1. Press the OPEN button and open the top panel.
2. Press the ►►, ◄◄ keys and make sure that the optical pick-up moves smoothly, without catching, from the inmost → outmost → inmost circumference.
►► : The optical pick-up moves outward
◄◄ : The optical pick-up moves inward

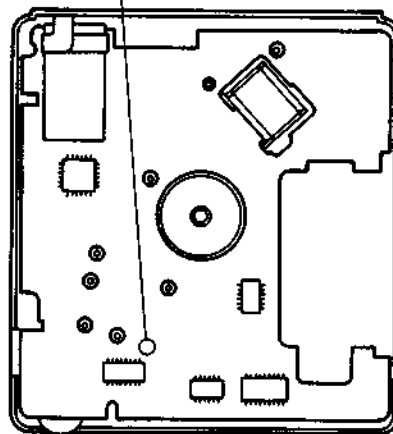
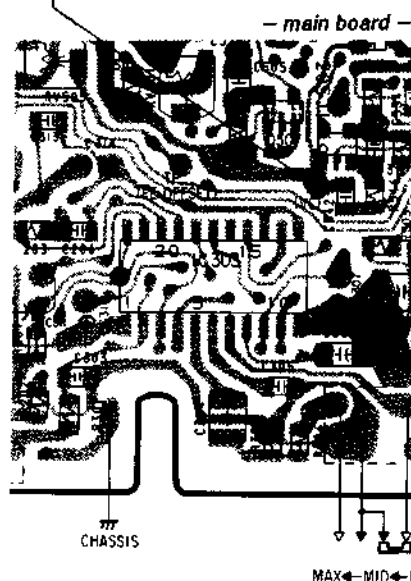
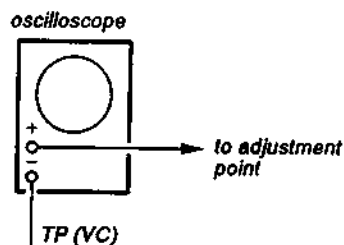
• Focus Search Check

1. Press the OPEN button and open the top panel.
2. Press the ▷ key. (Focus search is performed continuously.)
3. Observe the optical pick-up objective lens and check that it moves smoothly up and down with no catching or noises.
4. Press the ◻ key.
Check that focus search operation stops. If it does not stop, press the ◻ key again longer than before.

VC (1/2 Vcc) Connecting Point

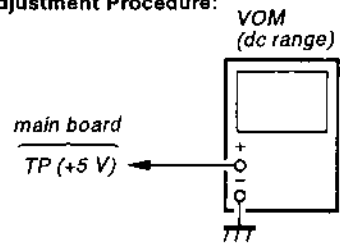
FOCUS BIAS ADJUSTMENT
TRACKING BALANCE ADJUSTMENT

When the adjustments above are performed, connect the ⊖ side of oscilloscope to the point below.



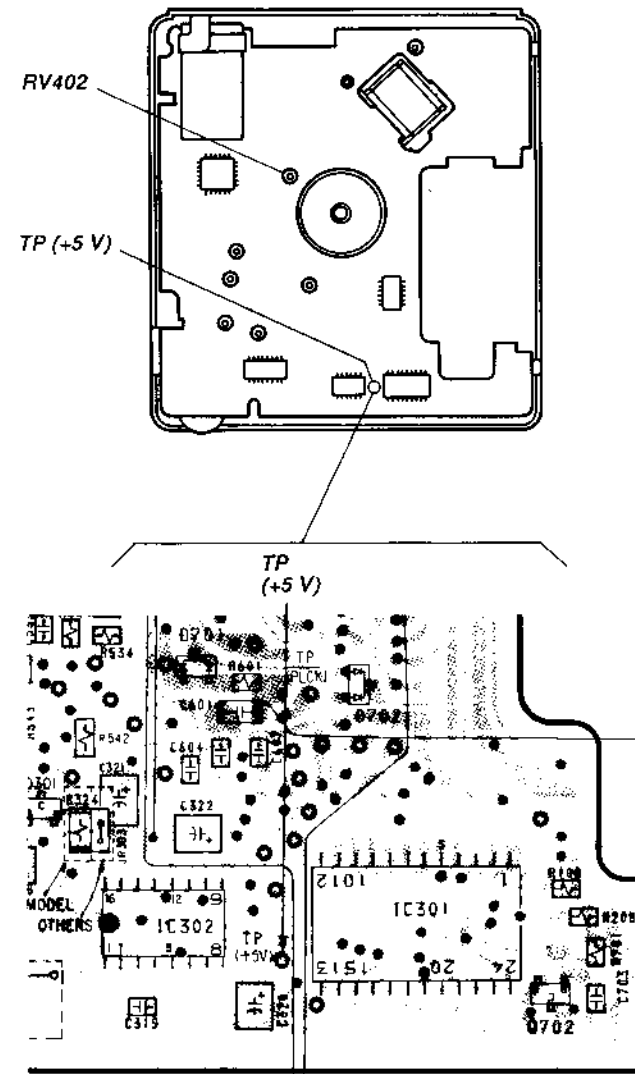
+5 V Adjustment

Adjustment Procedure:



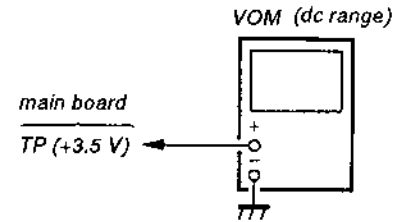
1. Put the set into service mode stop state (see page 5).
2. Connect the VOM to main board TP (+5 V).
3. Adjust RV402 for $+5 \pm 0.1V$ reading on the VOM.
4. After adjustment, release service mode (see page 5).

Adjustment Location: main board



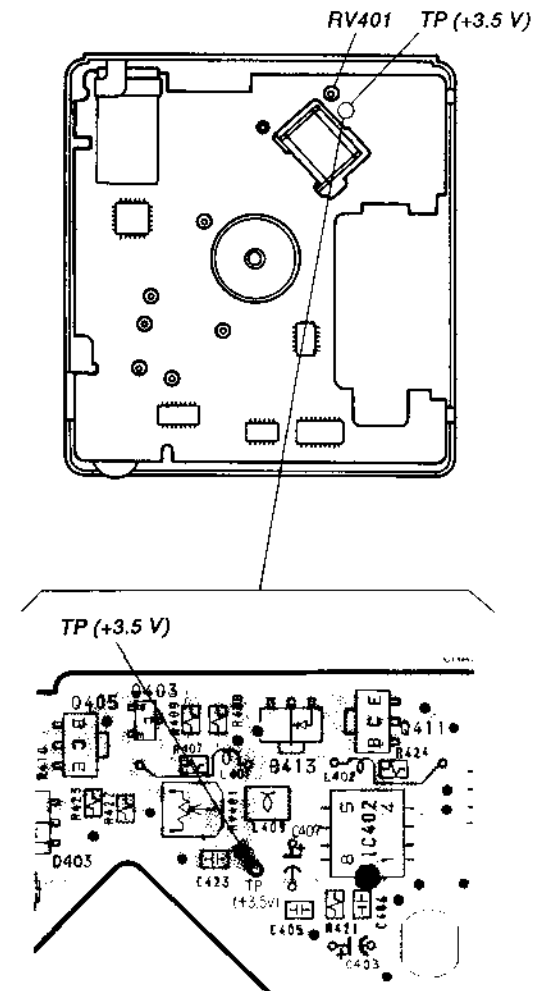
+3.5 V Adjustment

Adjustment Procedure:



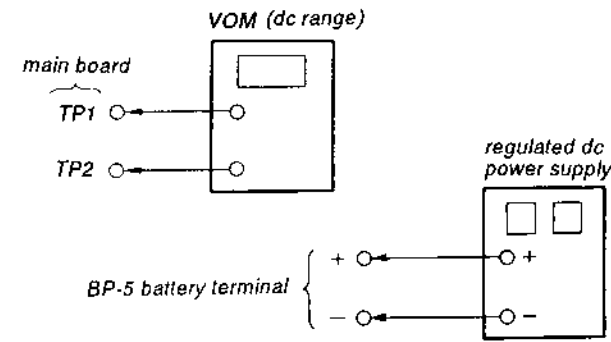
1. Put the set into service mode stop state (see page 5).
2. Connect the VOM to main board test point TP (+3.5 V).
3. Adjust RV401 for $3.5 \pm 0.05 V$ reading on the VOM.
4. After adjustment, release service mode (see page 5).

Adjustment Location: main board

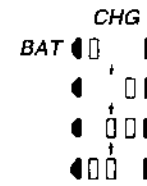


Charge Det Voltage Adjustment

Adjustment Procedure:

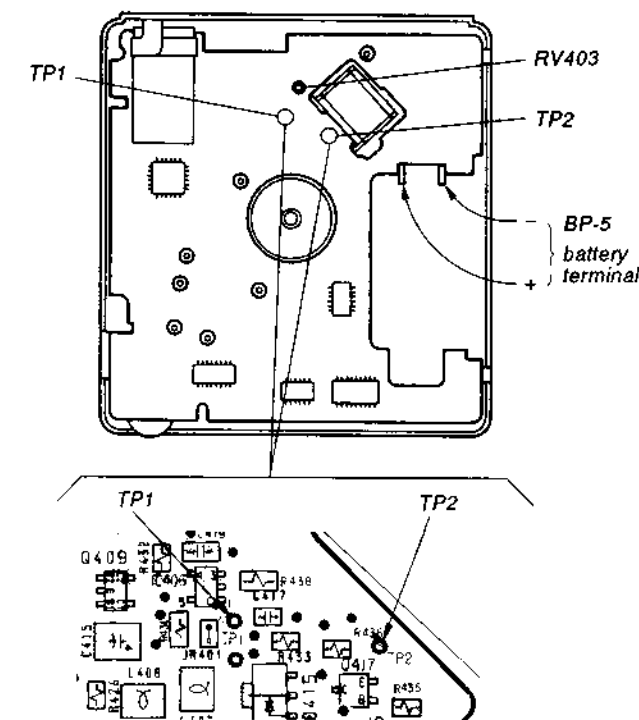


1. Connect VOM to TP1 and 2 on the main board and supply 3.92 Vdc to BP-5 battery terminal. (At this time, supply 9 Vdc to the external power supply jack (DC IN 9 V).)
2. Confirm the LCD module display becomes to the charge mode as following.



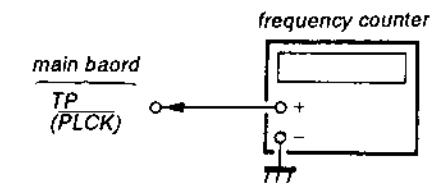
3. Adjust RV403 for $0 \pm 10 mV$ reading on VOM.

Adjustment Location: main board



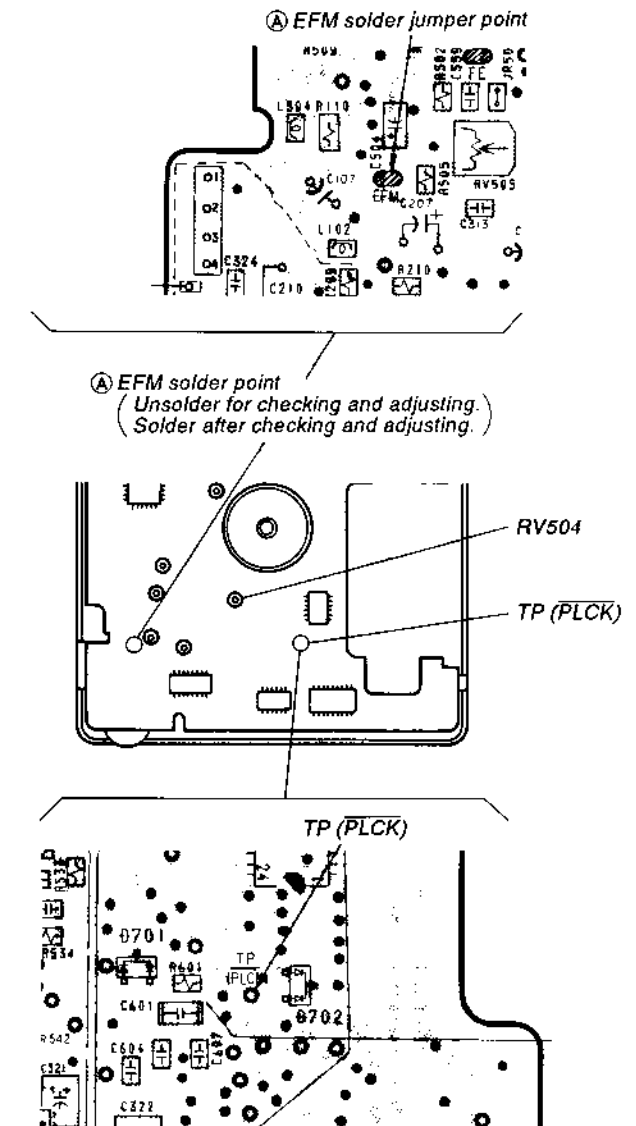
PLL Free Run Frequency Check and Adjustment

Check/Adjustment Procedure:



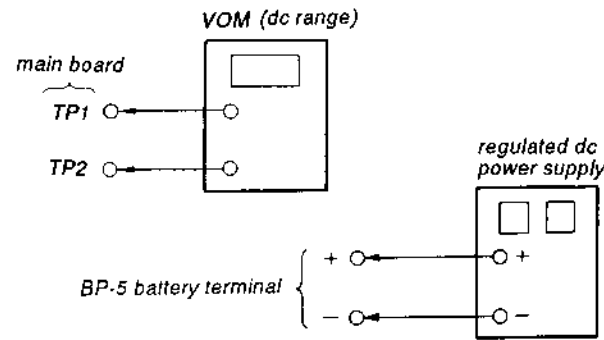
1. Disconnect the jumper point (A) (EFM) in the diagram below.
2. Connect a frequency counter to servo board test point TP (PLCK).
3. Put the set into service mode stop state (see page 5).
4. Check that the frequency counter reading is $4.3218 \pm 0.01 MHz$. If not, adjust RV504 so that it is $4.3218 \pm 0.01 MHz$.
5. After adjustment, release service mode (see page 5).
6. Short the jumper point disconnected in step 1.

Check/Adjustment Location: main board

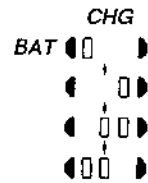


Charge Det Voltage Adjustment

Adjustment Procedure:

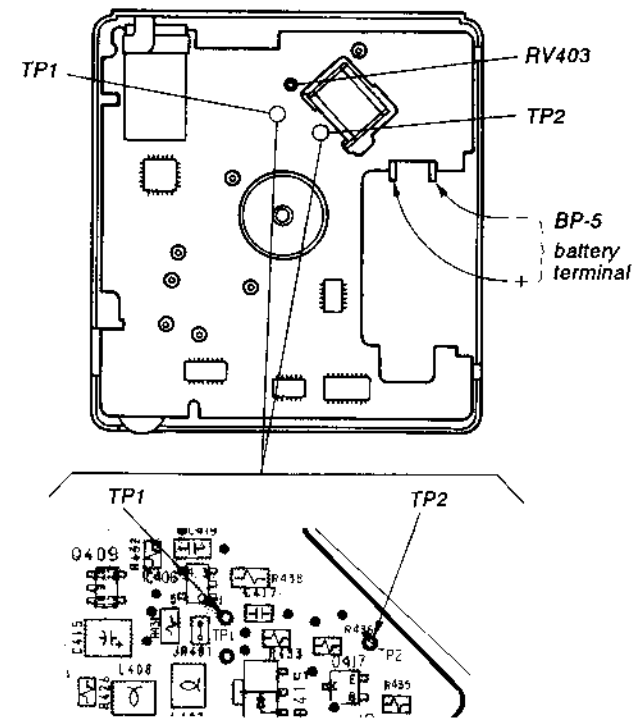


1. Connect VOM to TP1 and 2 on the main board and supply 3.92 Vdc to BP-5 battery terminal. (At this time, supply 9 Vdc to the external power supply jack (DC IN 9 V).)
2. Confirm the LCD module display becomes to the charge mode as following.



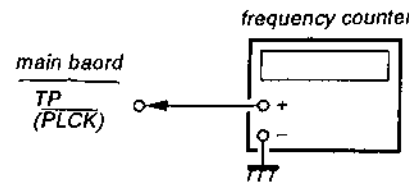
3. Adjust RV403 for 0 ± 10 mV reading on VOM.

Adjustment Location: main board



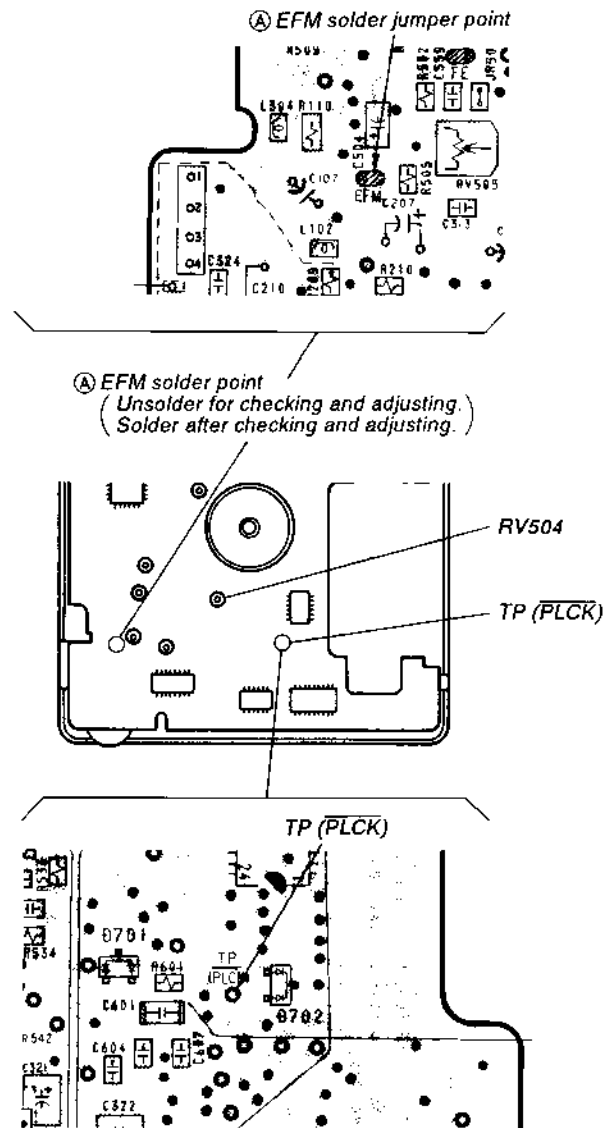
PLL Free Run Frequency Check and Adjustment

Check/Adjustment Procedure:



1. Disconnect the jumper point (A) (EFM) in the diagram below.
2. Connect a frequency counter to servo board test point TP (PLCK).
3. Put the set into service mode stop state (see page 5).
4. Check that the frequency counter reading is 4.3218 ± 0.01 MHz. If not, adjust RV504 so that it is 4.3218 ± 0.01 MHz.
5. After adjustment, release service mode (see page 5).
6. Short the jumper point disconnected in step 1.

Check/Adjustment Location: main board

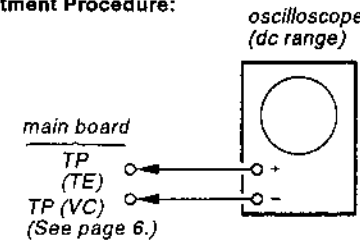


Tracking Balance Adjustment

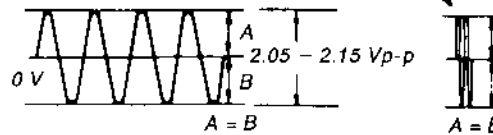
Conditions:

The set should be placed either horizontally.

Adjustment Procedure:



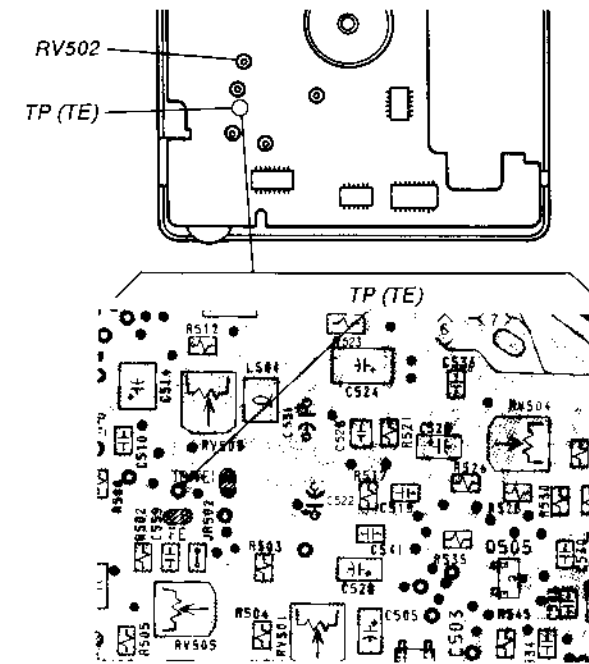
1. Connect the oscilloscope to servo board TP (TE).
2. Put the set into service mode stop state (see page 5).
3. Press the \blacktriangleright and \blacktriangleleft keys to move the optical pick-up to the center.
4. Insert the disc (YEDS-18) and close the top panel.
5. Press the \blacktriangleright key.
(It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.)
6. Adjust RV502 so that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V.



Note: Take sweep time as long as possible to obtain best waveform.

7. Press the \square key to stop spindle motor from rotating.
8. After adjustment, release service mode (see page 5).

Adjustment Location: main board

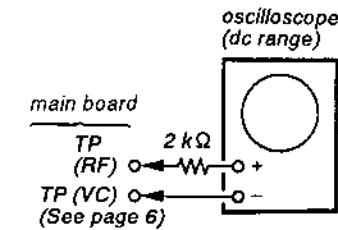


Focus Bias Adjustment

Conditions:

The set should be placed either horizontally.

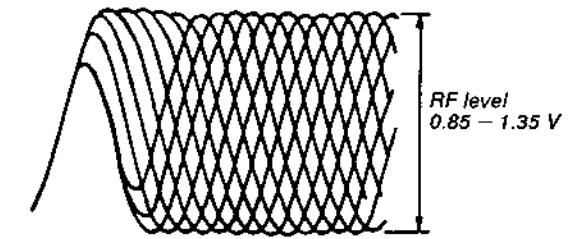
Adjustment Procedure:



1. Put the set into service mode stop state (see page 5).
2. Connect the oscilloscope to main board test point TP (RF).
3. Press the \blacktriangleright and \blacktriangleleft keys to move the optical pick-up to the center. (Move the optical pick-up to the music area on the disc to enable easy visibility of the eye pattern).
4. Insert the disc (YEDS-18) and close the top panel.
5. Press the key.
(It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.)
6. Press the \square button. (Tracking and sled go ON.)
7. Adjust RV503 so that the oscilloscope waveform eye pattern is good. A good eye pattern means that the diamond shape (\diamond) in the center of the waveform can be clearly distinguished.

RF Signal Reference Waveform (eye pattern)

VOLT/DIV: 200 mV
TIME/DIV: 500 nS



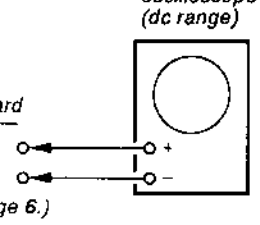
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

8. Press the \square key to stop spindle motor from rotating.
9. After adjustment, release service mode (see page 5).

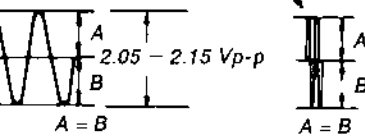
Focus Adjustment

placed either horizontally.

Procedure:

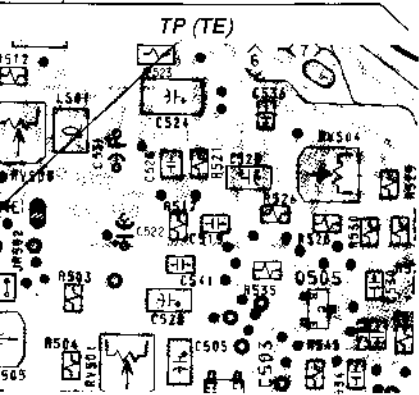
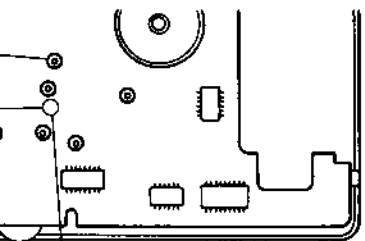


Connect the oscilloscope to servo board TP (TE) in service mode stop state (see page 5). Use the \blacktriangleright and \blacktriangleleft keys to move the optical pick-up to the center. (Move the optical pick-up to the music area on the disc to enable easy visibility of the eye pattern.) Insert the disc (YEDS-18) and close the top panel. Press the key. (It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.) Press the \square button. (Tracking and sled go ON.) Adjust RV503 so that the oscilloscope waveform eye pattern is good. A good eye pattern means that the diamond shape (\diamond) in the center of the waveform can be clearly distinguished.



Press the \square key to stop spindle motor from rotating. After adjustment, release service mode (see page 5).

Location: main board



Focus Bias Adjustment

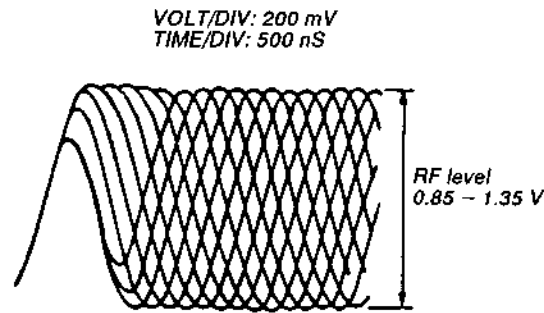
Conditions:

The set should be placed either horizontally.

Adjustment Procedure:

- Put the set into service mode stop state (see page 5).
- Connect the oscilloscope to main board test point TP (RF).
- Press the \blacktriangleright and \blacktriangleleft keys to move the optical pick-up to the center. (Move the optical pick-up to the music area on the disc to enable easy visibility of the eye pattern.)
- Insert the disc (YEDS-18) and close the top panel.
- Press the key. (It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.)
- Press the \square button. (Tracking and sled go ON.)
- Adjust RV503 so that the oscilloscope waveform eye pattern is good. A good eye pattern means that the diamond shape (\diamond) in the center of the waveform can be clearly distinguished.

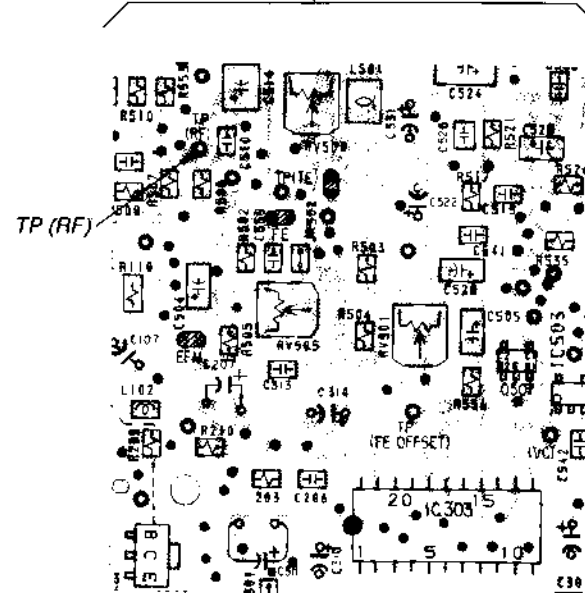
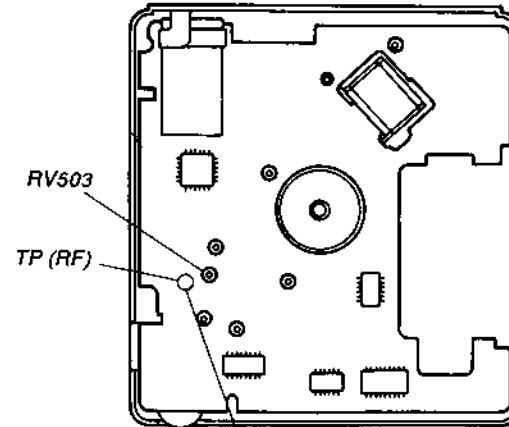
RF Signal Reference Waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

- Press the \square key to stop spindle motor from rotating.
- After adjustment, release service mode (see page 5).

Adjustment Location: main board



CD jig

Reference

Focus/Tracking Gain Adjustment

A frequency response analyzer or CD jig is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up followup (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is high, the noise when the 2-axis device operates increases.
- When gain is low, it is more susceptible to mechanical shock and skipping occurs more easily.

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

- optical pick-up block
- RV505 (focus gain VR)
- RV501 (tracking gain VR)

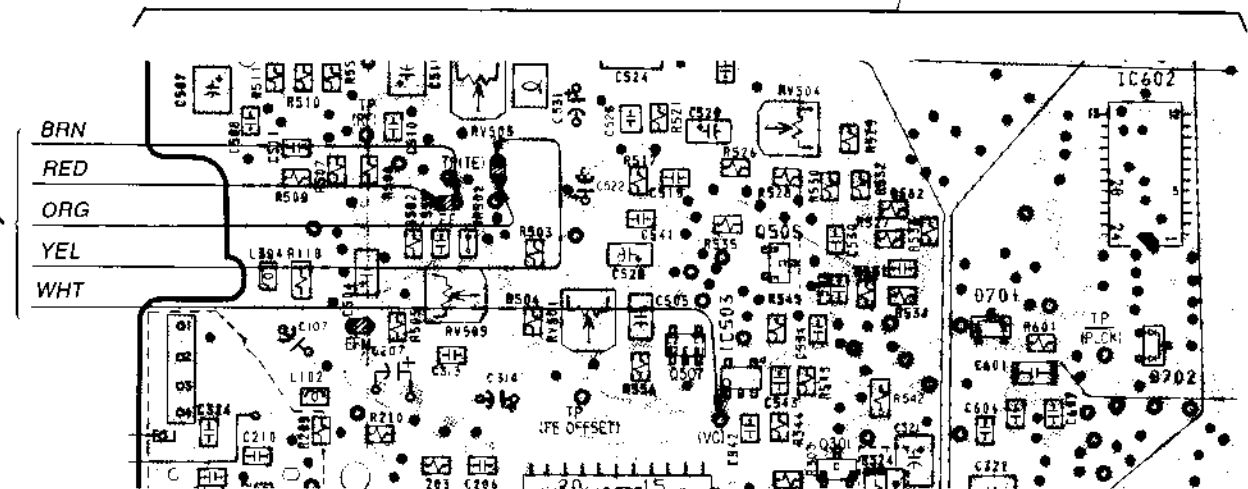
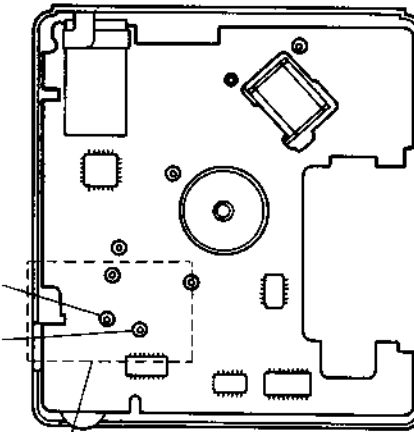
Be careful not to move RV505 (focus gain volume) and RV501 (tracking gain volume) ordinarily.

On this set, it is very difficult to simplify this adjustment. For those sets on which symptoms such as "occasional skipping" are hard to discover, or it is hard to tell if the set has been repaired, use the CD jig and perform this adjustment. Refer to the diagram below for connection of the CD jig. The adjustment procedure is described in the separate CD Jig Instruction Manual.

CD Jig Connecting Procedure:

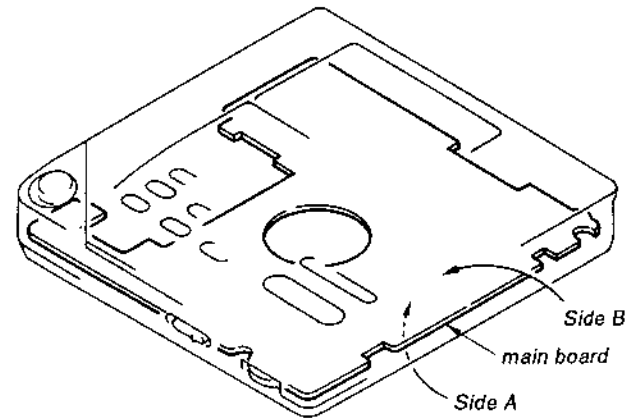
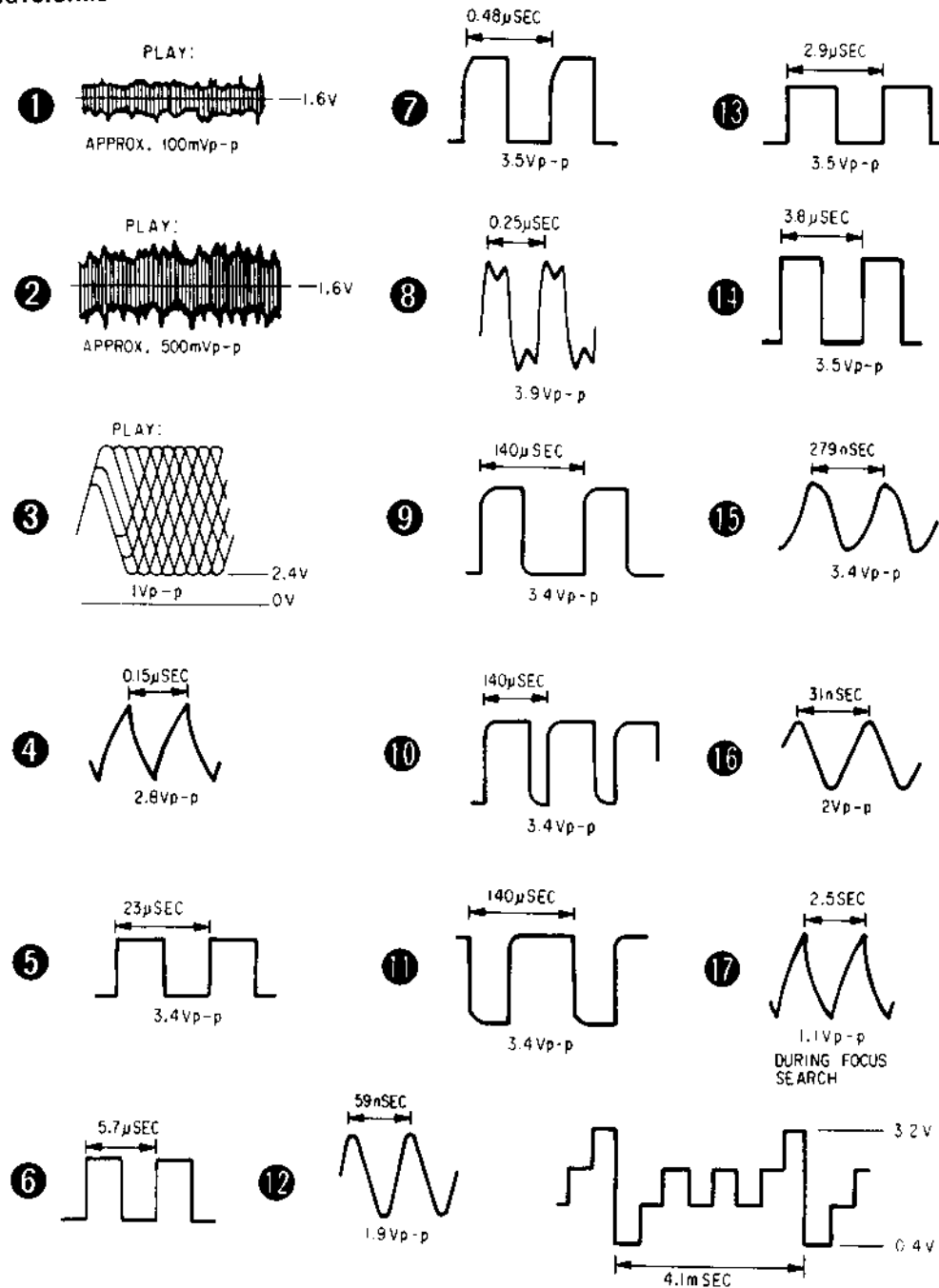
Remove the solder jumpers at the TE and FE locations and connect the CD jig. (Connect the points on both TE and FE located on the side of IC501 to the output to the CD jig, and points located on the side of volumes to the input from the CD jig.)

-- main board --



**SECTION 4
DIAGRAMS**

• Waveforms

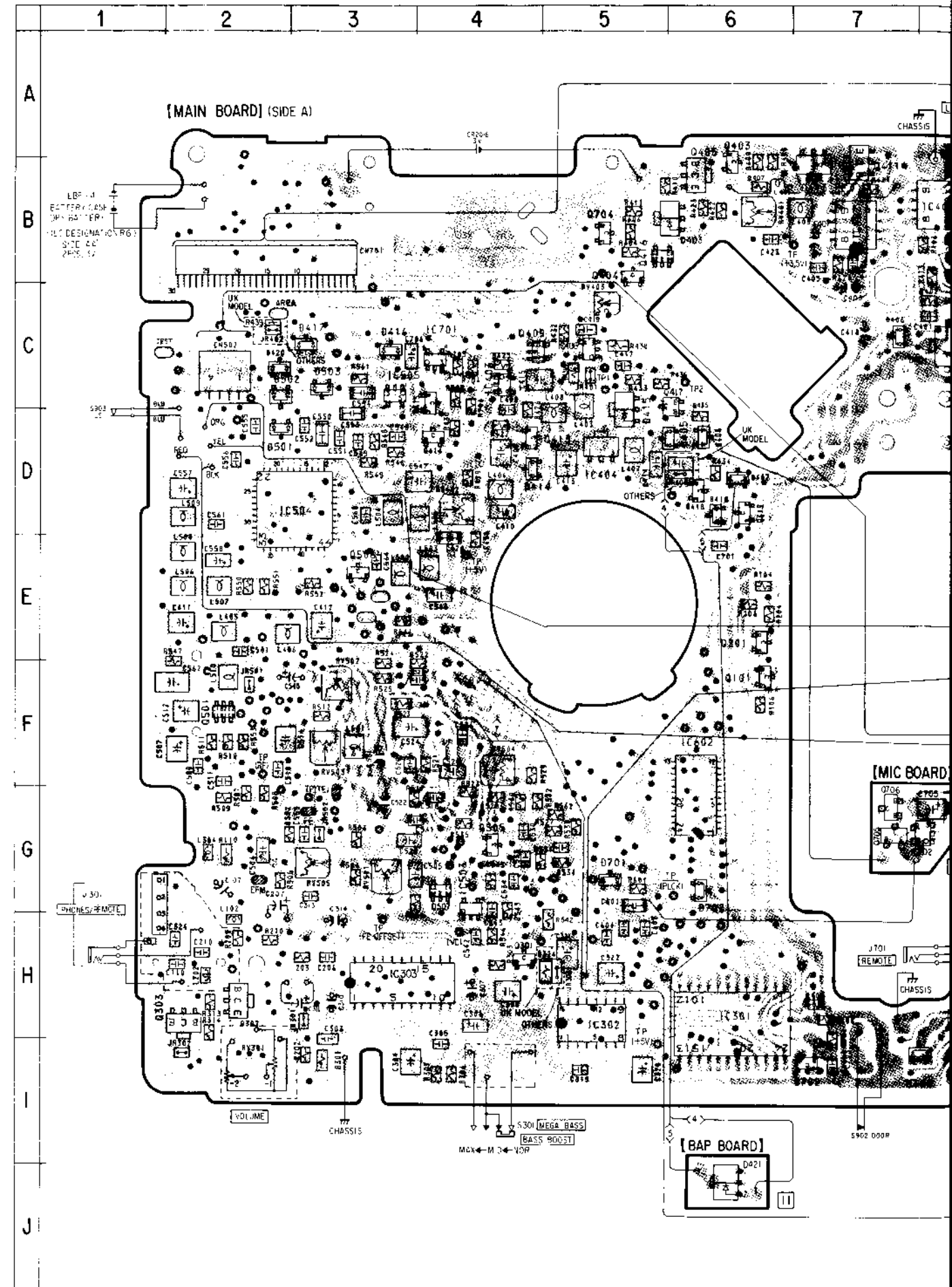


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	C-8	IC703	J-11
D402	B-10	IC801	D-23
D403	B-5	IC802	A-23
D405	D-6	IC803	C-18
D406	C-7		
D407	D-6	Q101	F-6
D408	D-6	Q201	E-6
D409	H-8	Q301	H-5
D410	H-8	Q302	I-2
D413	A-7	Q303	H-2
D414	D-4	Q304	H-16
D415	C-5	Q305	H-16
D416	C-3	Q306	
D417	C-3	Q401	C-8
D419	D-6	Q402	B-10
D420	D-5	Q403	A-6
D421	J-6	Q404	B-5
D501	D-2	Q405	A-6
D502	D-2	Q407	B-10
D503	C-3	Q408	B-8
D701	G-5	Q409	C-4
D702	G-6	Q411	A-7
D705	G-8	Q413	D-4
D801	E-20	Q414	D-4
D802	B-23	Q415	C-4
D805	C-20	Q416	B-5
D806	C-19	Q417	C-6
D807	C-18	Q418	D-6
		Q419	D-6
IC301	H-6	Q501	F-2
IC302	H-5	Q502	H-14
IC303	H-3	Q505	G-4
IC304	H-12	Q506	E-3
IC401	B-8	Q507	J-14
IC402	B-7	Q701	H-11
IC403	C-4	Q702	I-7
IC404	D-5	Q704	B-5
IC406	C-5	Q705	G-7
IC407	B-8	Q706	F-7
IC501	F-15	Q707	J-11
IC502	G-14	Q801	B-20
IC503	G-4	Q802	B-20
IC504	D-3	Q803	B-20
IC505	C-3	Q804	C-19
IC601	G-12	Q805	C-20
IC602	F-6	Q806	C-20
IC701	C-4		
IC702	G-8		

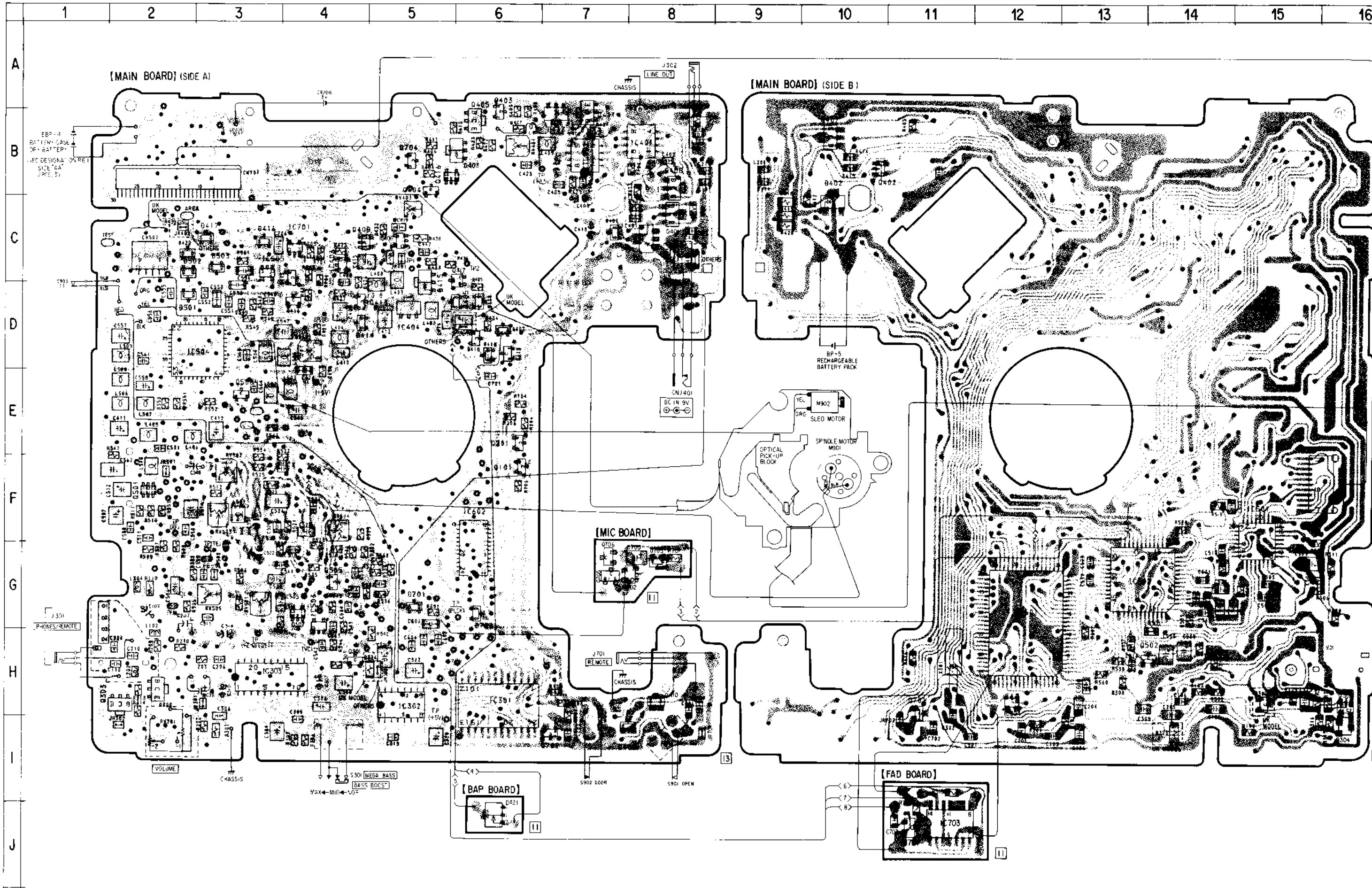
- Note:
- : parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : parts mounted on the conductor side.
 - : Through hole.
 - (with diagonal lines) : Pattern on the side which is seen.
 - (with horizontal lines) : Pattern of the rear side.

4-1. PRINTED WIRING BOARD

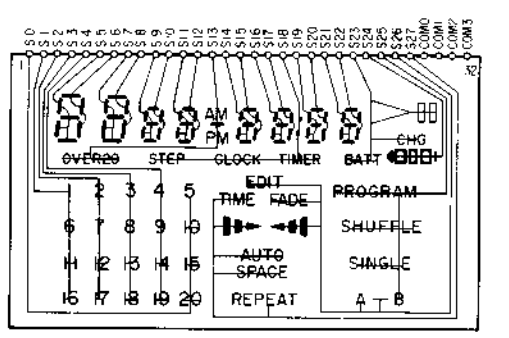
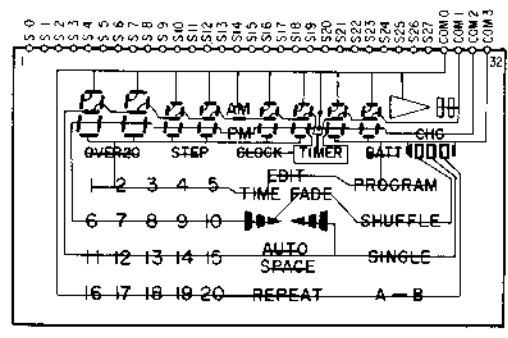
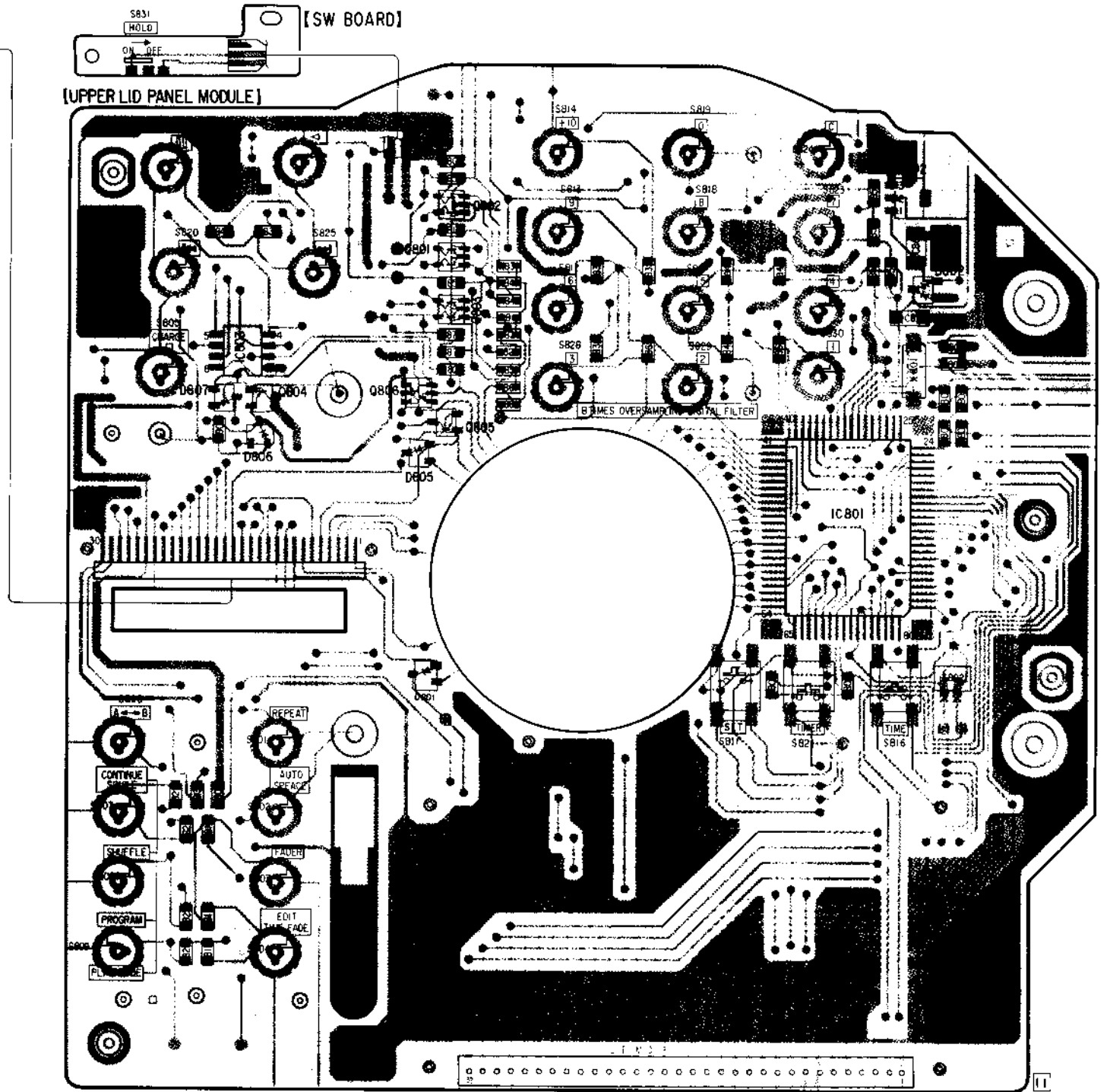
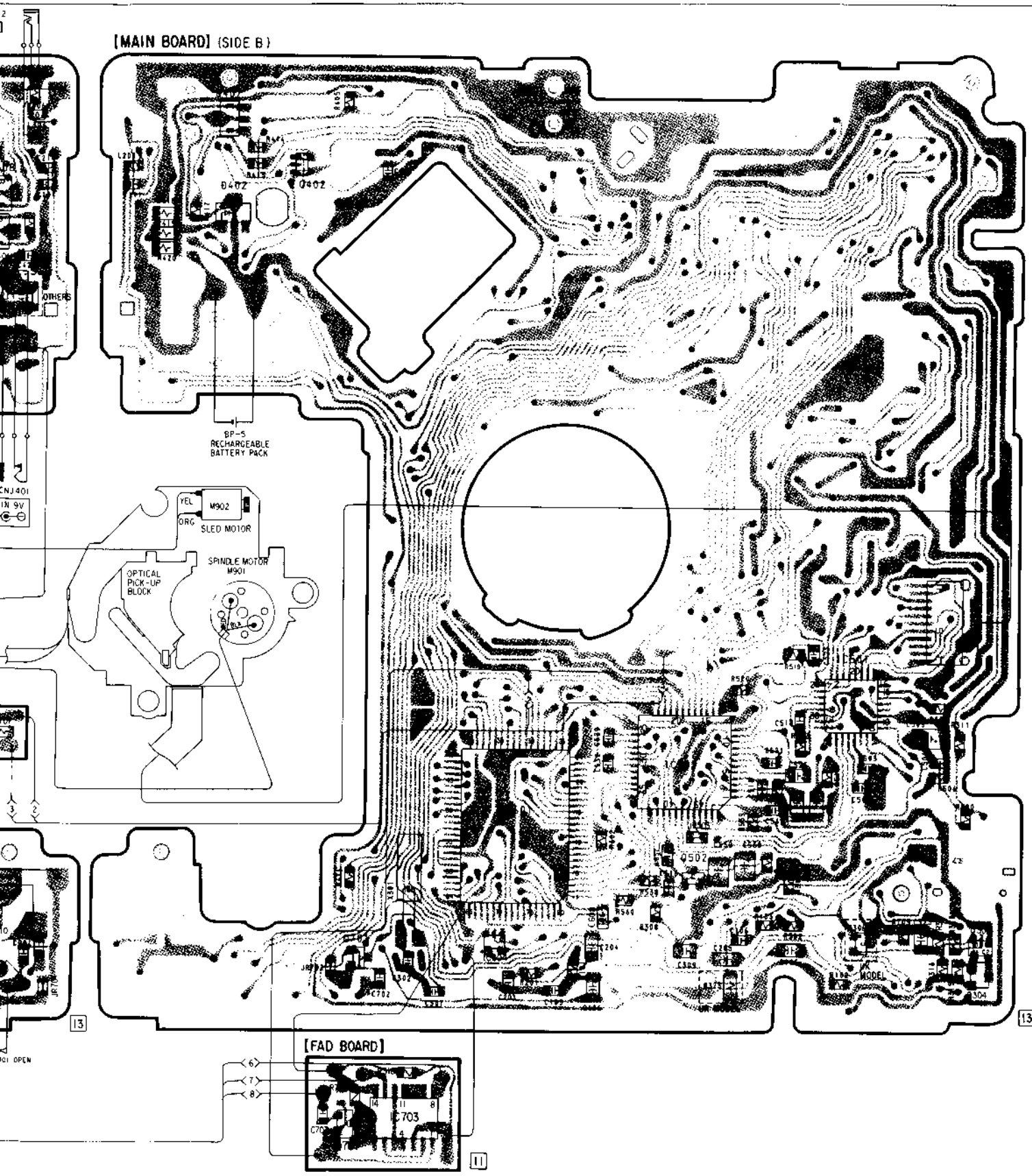


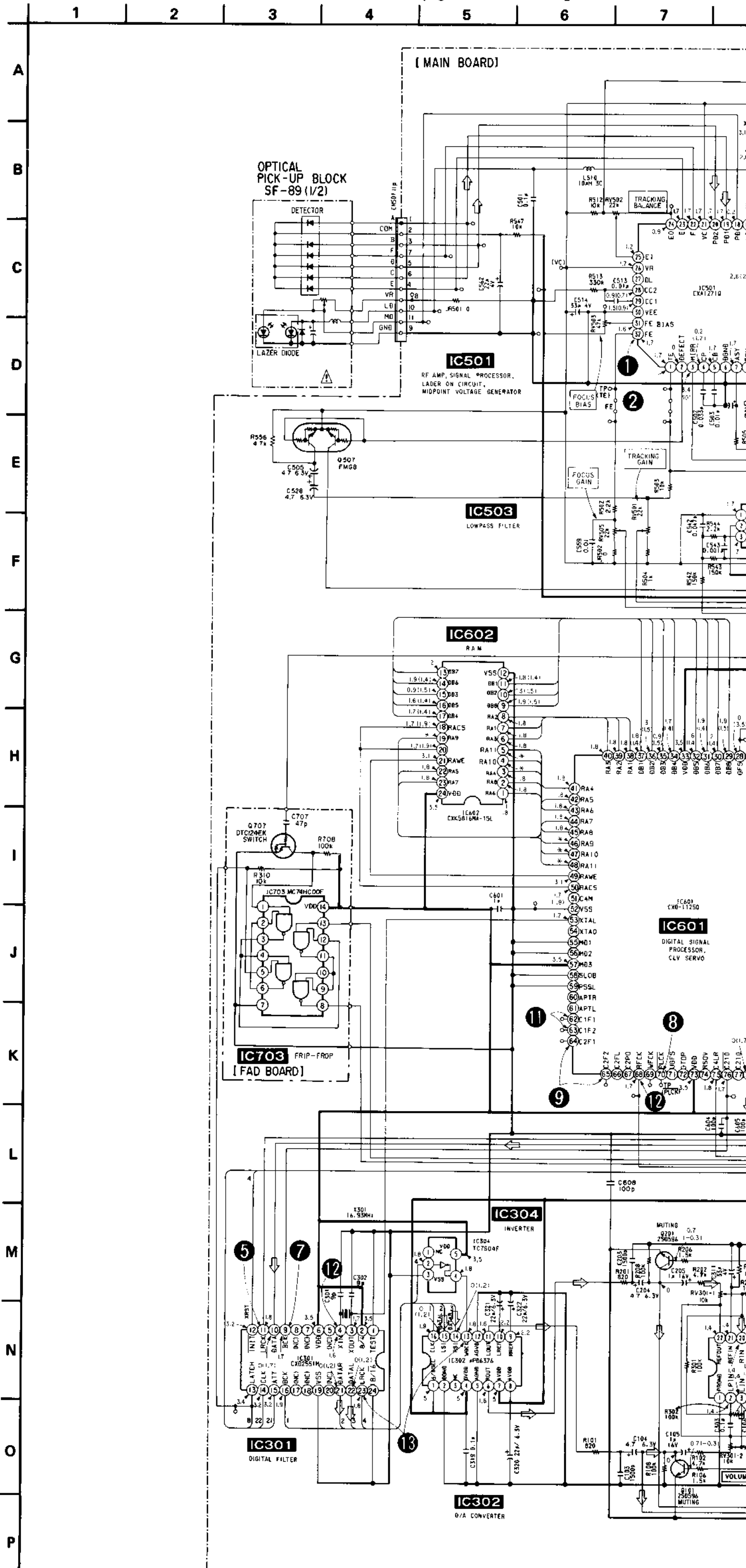
4-1. PRINTED WIRING BOARD

Ref. No.	Location
C703	J-11
C801	D-23
C802	A-23
C803	C-18
D101	F-6
D201	E-6
D301	H-5
D302	I-2
D303	H-2
D304	H-16
D305	H-16
D306	
D401	C-8
D402	B-10
D403	A-6
D404	B-5
D405	A-6
D407	B-10
D408	B-8
D409	C-4
D411	A-7
D413	D-4
D414	D-4
D415	C-4
D416	B-5
D417	C-6
D418	D-6
D419	D-6
D501	F-2
D502	H-14
D505	G-4
D506	E-3
D507	J-14
D701	H-11
D702	I-7
D704	B-5
D705	G-7
D706	F-7
D707	J-11
D801	B-20
D802	B-20
D803	B-20
D804	C-19
D805	C-20
D806	C-20



from the component side.
 from the conductor side.
 on the conductor side.
 side which is seen.
 rear side.

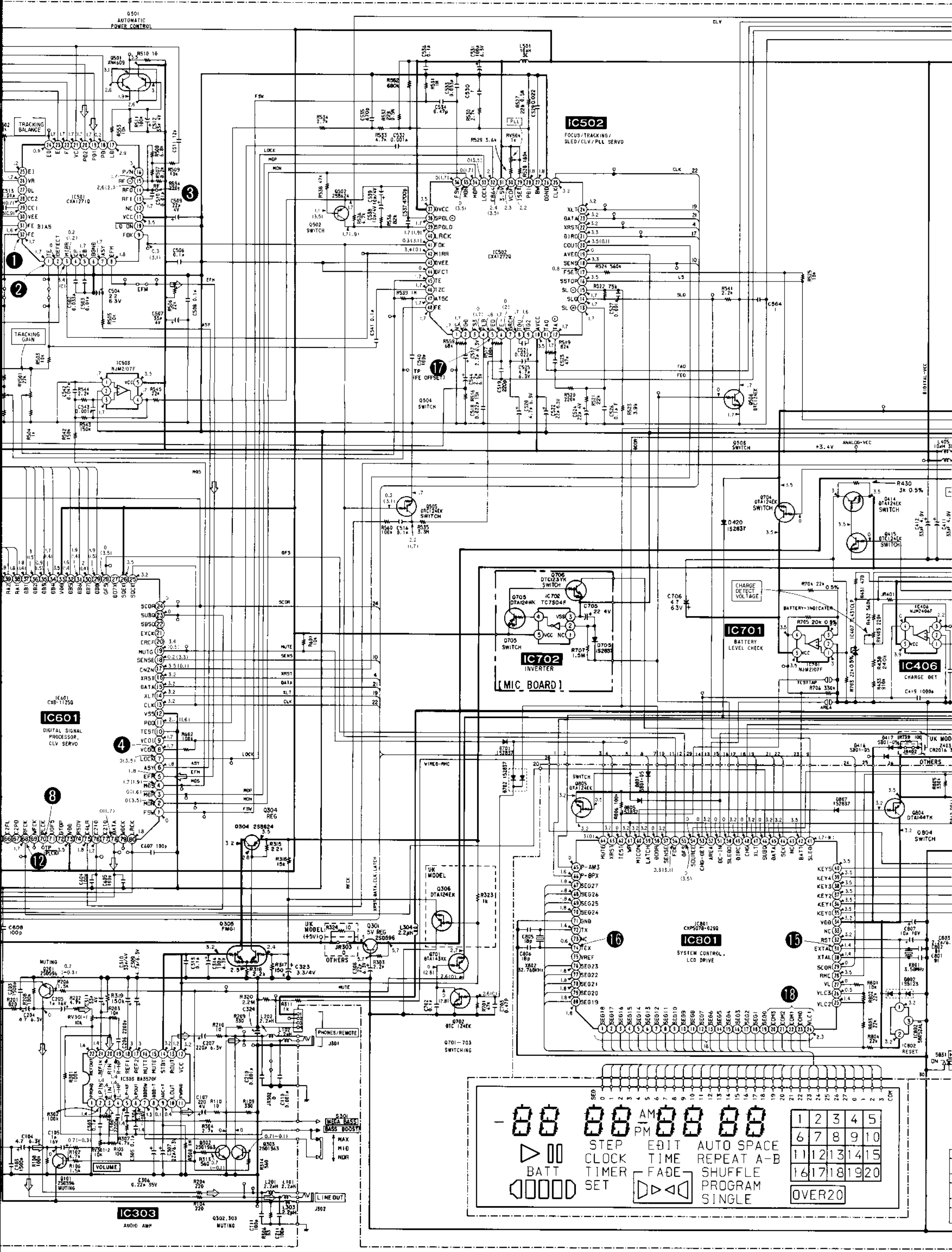




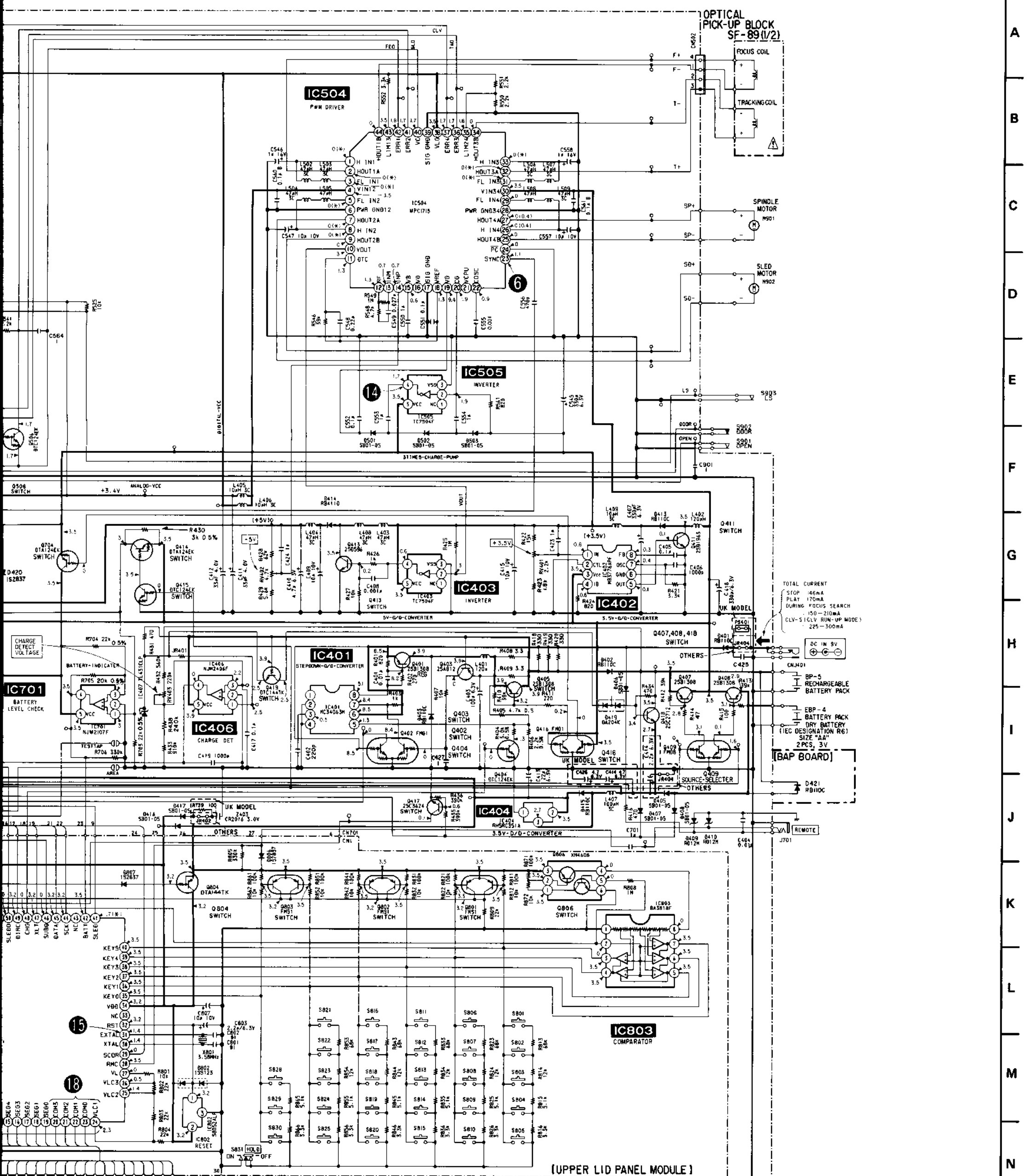
Note:
 • All capacitors are in μF unless otherwise noted. pF: μpF 50 WV or less are not indicated except for electrolytics and tantalums.
 • All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
 • % : indicates tolerance.

<p>Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
---	---

- : B + Line.
- : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under the service mode.
 no mark : STOP
 () : PLAY
 * : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (10 M Ω/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : CD
- Voltage, waveforms, and total current is measured under the upper panel is closed.
 See page 5 for the service mode setting.



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



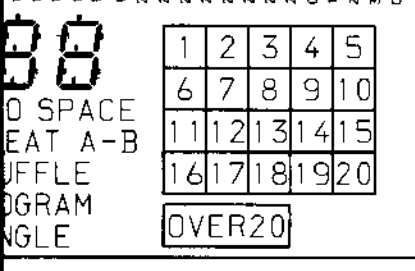
TOTAL CURRENT
STOP 46mA
PLAY 170mA
DURING FOCUS SEARCH
150-210mA
CLV-SICLV RUN-UP MODE
225-300mA

DC IN 9V
BP-5 RECHARGEABLE BATTERY PACK
EBP-4 BATTERY PACK DRY BATTERY (IEC DESIGNATION R6) SIZE "AA" 2PCS, 3V
[BAP BOARD]

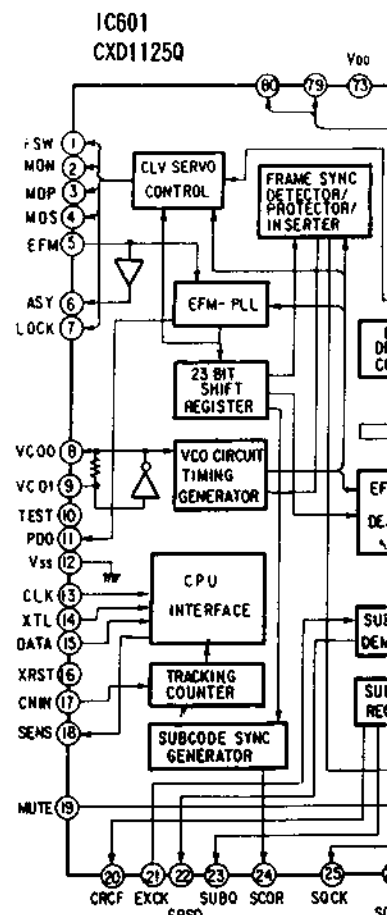
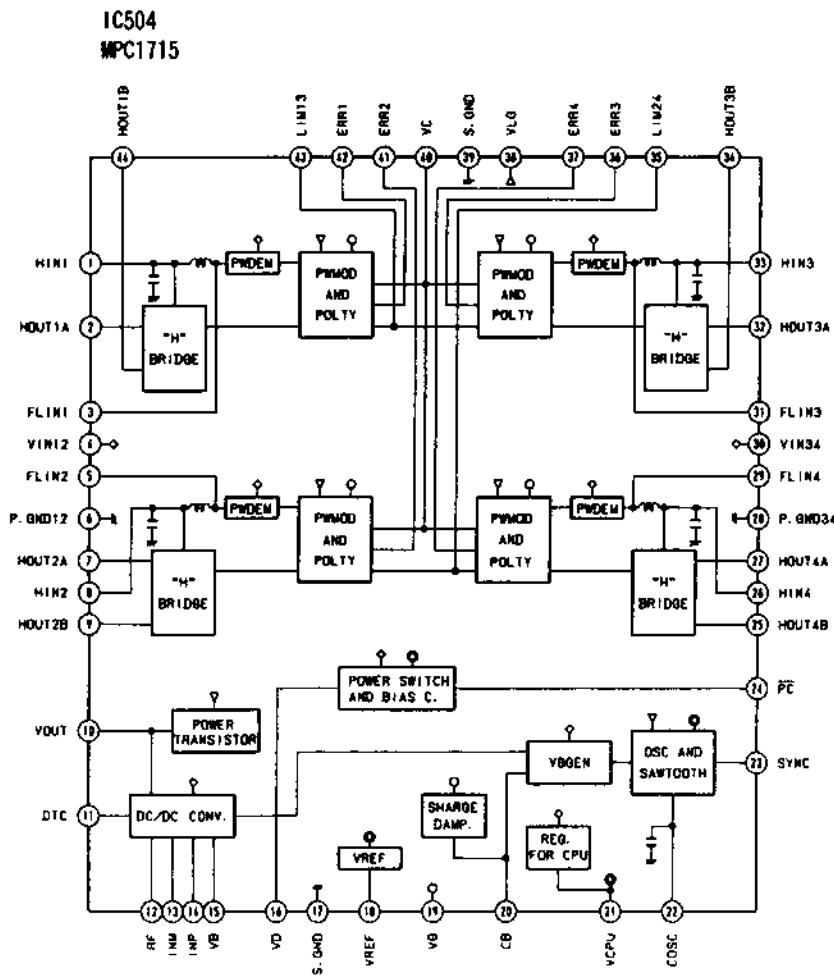
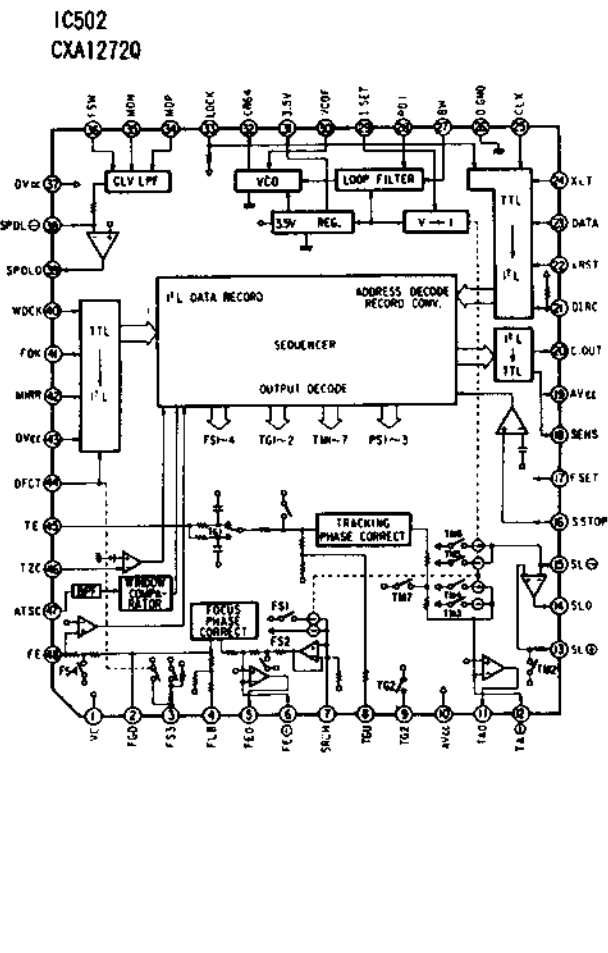
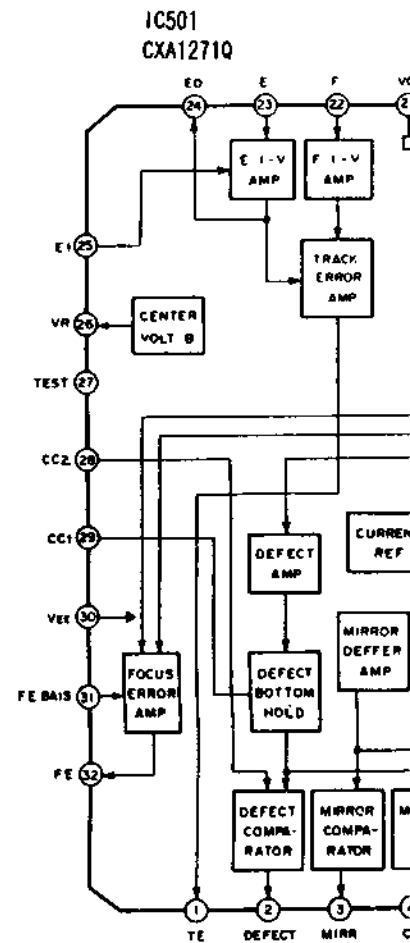
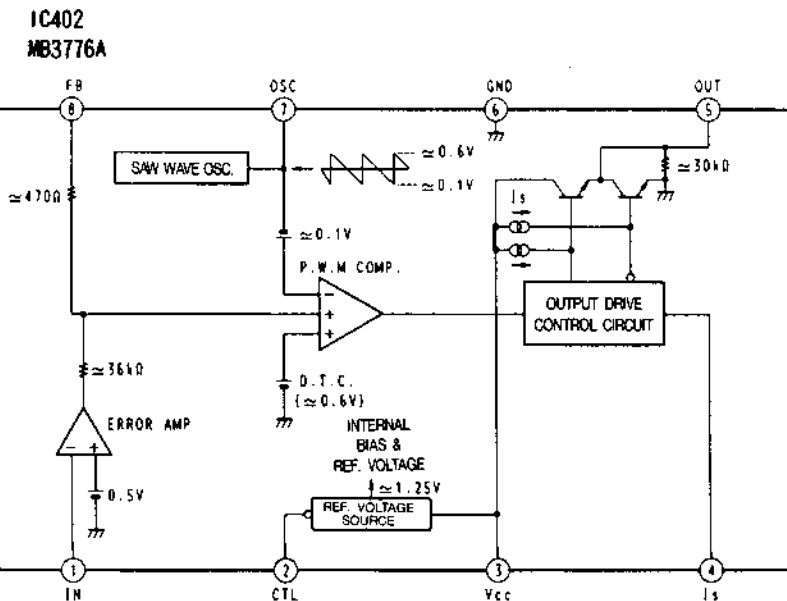
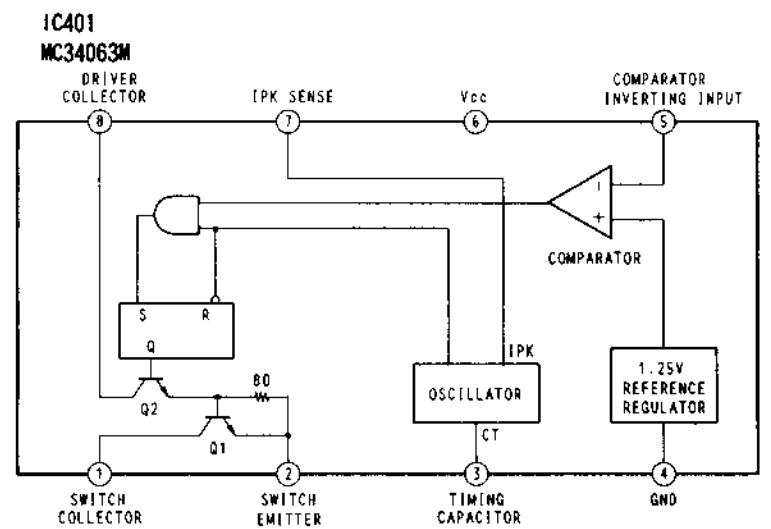
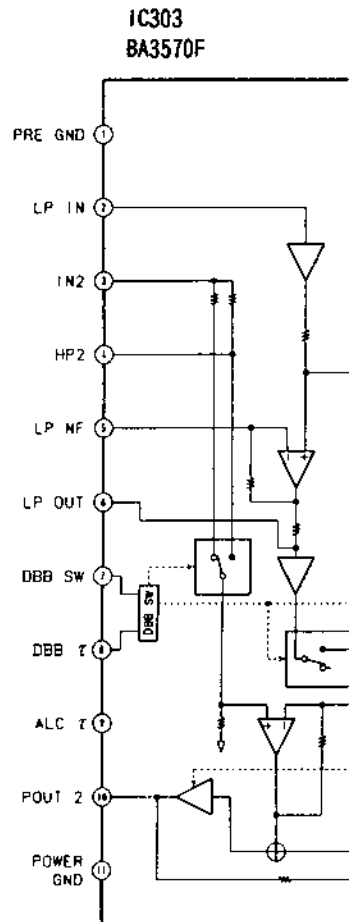
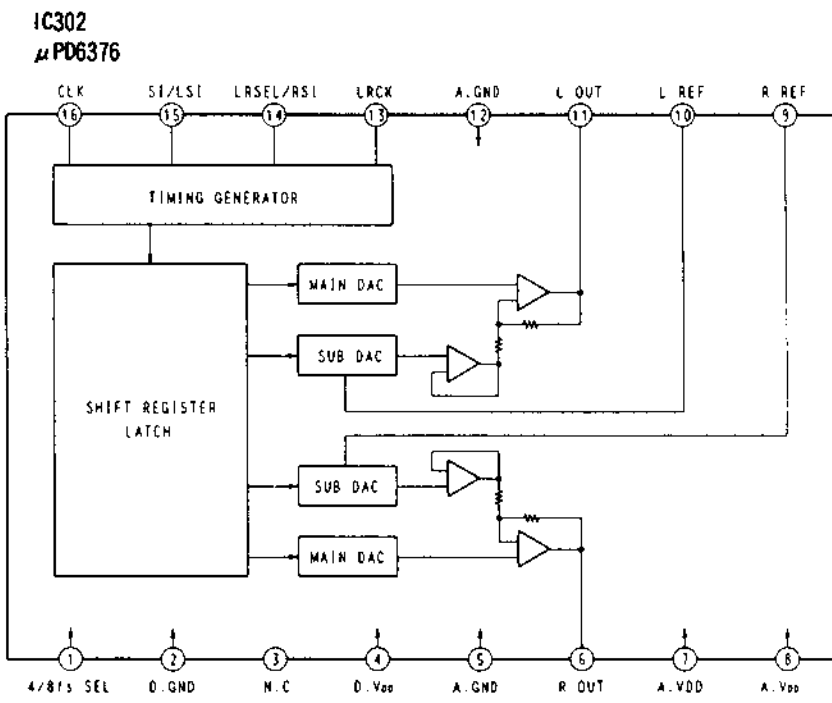
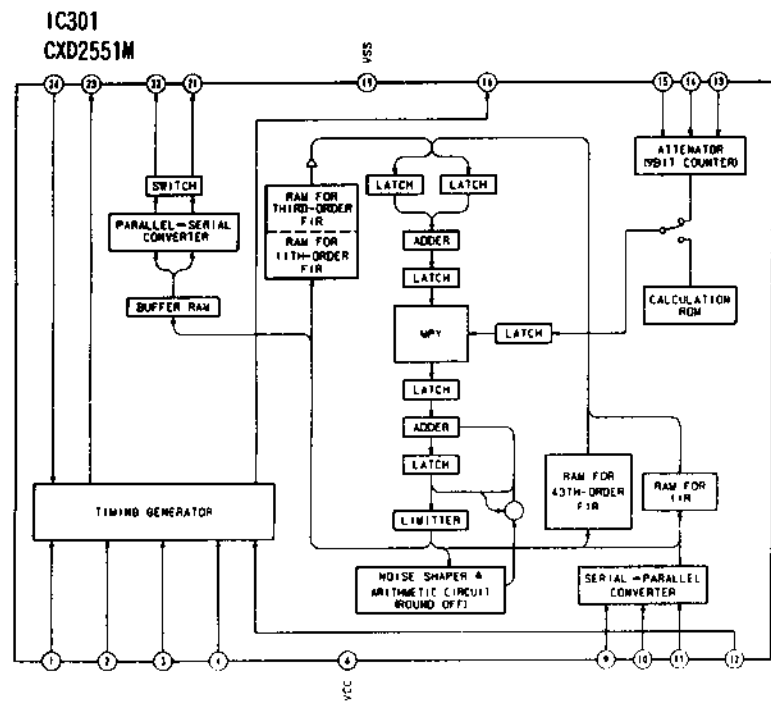
(UPPER LID PANEL MODULE)

8 TIMES OVERSAMPLING DIGITAL FILTER

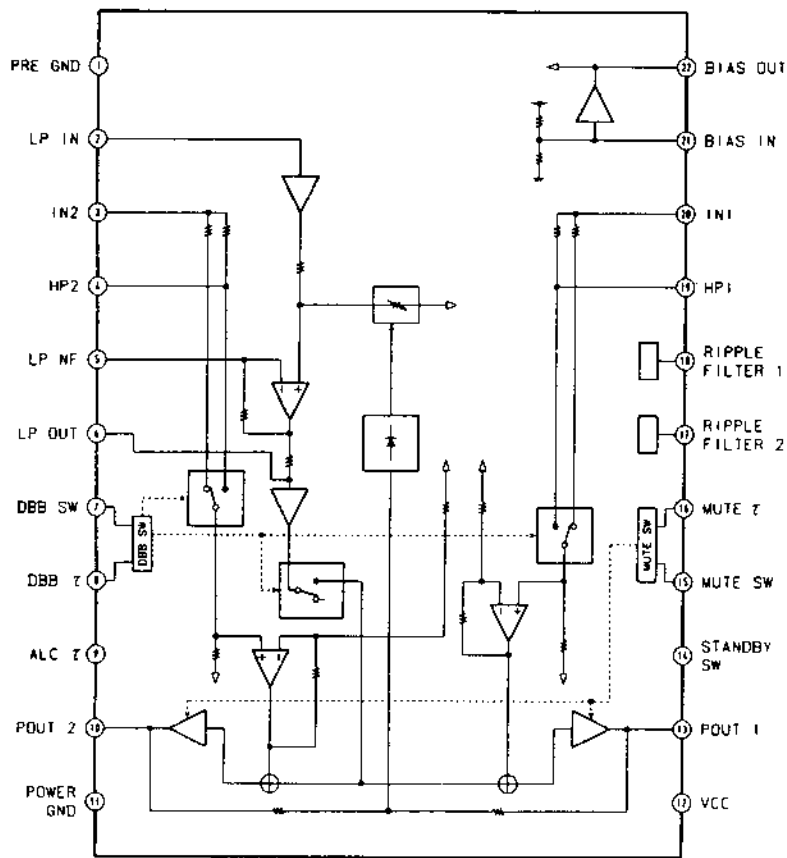
S821	S816	S811	S806	S801
TIMER	TIME	SET	A ↔ B	REPEAT
S822	S817	S812	S807	S802
4	5	6	PLAY MODE CONTINUE SINGLE	AUTO SPACE
S828	S823	S818	S813	S808
3	7	8	9	PLAY MODE SHUFFLE
S829	S824	S819	S814	S809
2	C	0	+10	PLAY MODE PROGRAM
S830	S825	S820	S815	S810
I	I	▶	⏸	CHARGE



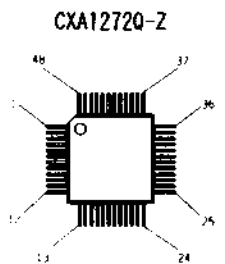
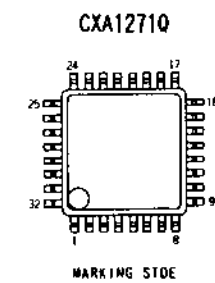
• IC Block Diagrams



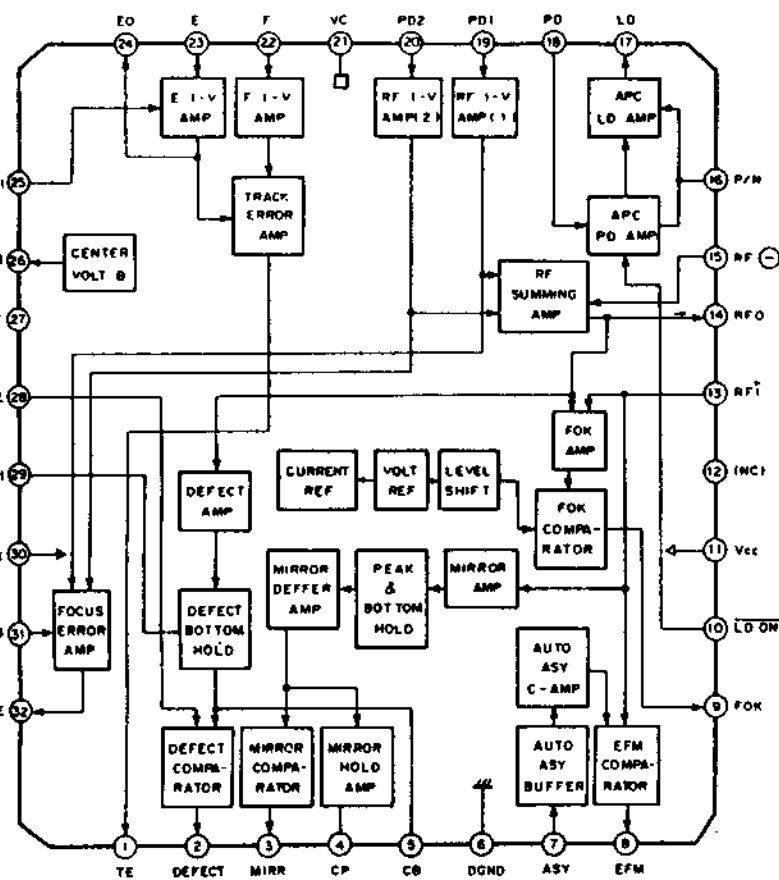
IC303
BA3570F



• Semiconductor Lead Layouts



IC501
CXA1271Q



SECTION 5
EXPLODED VIEWS

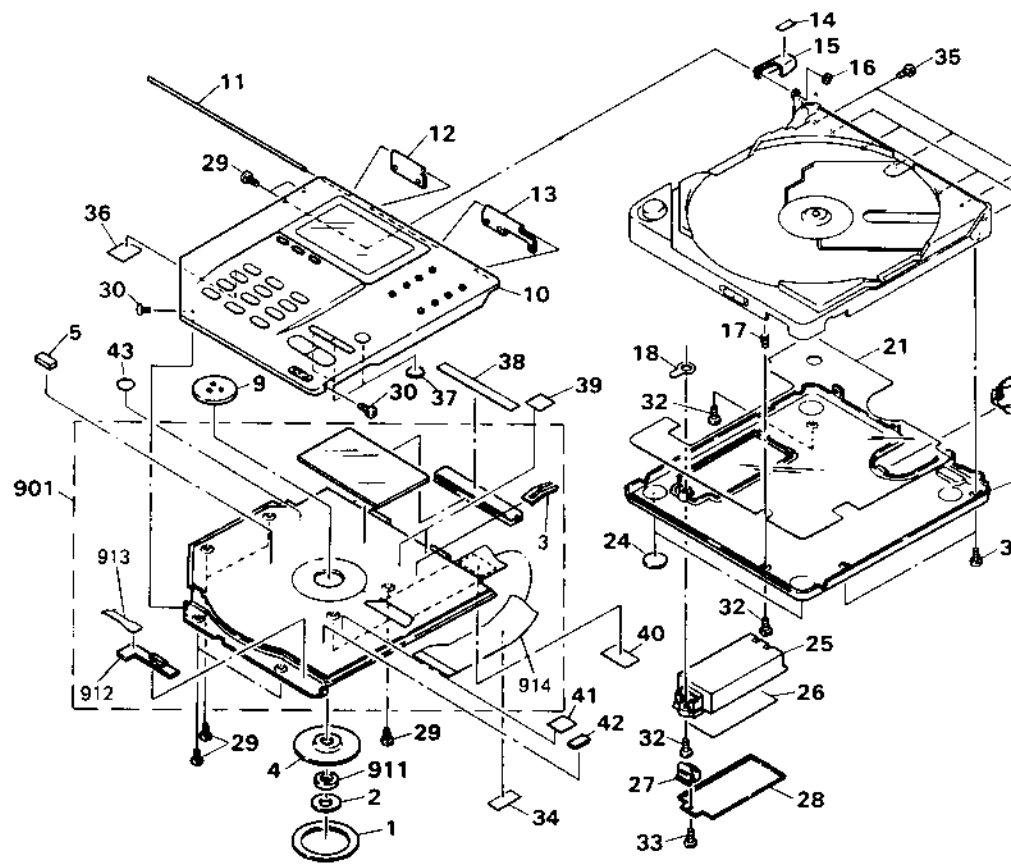
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

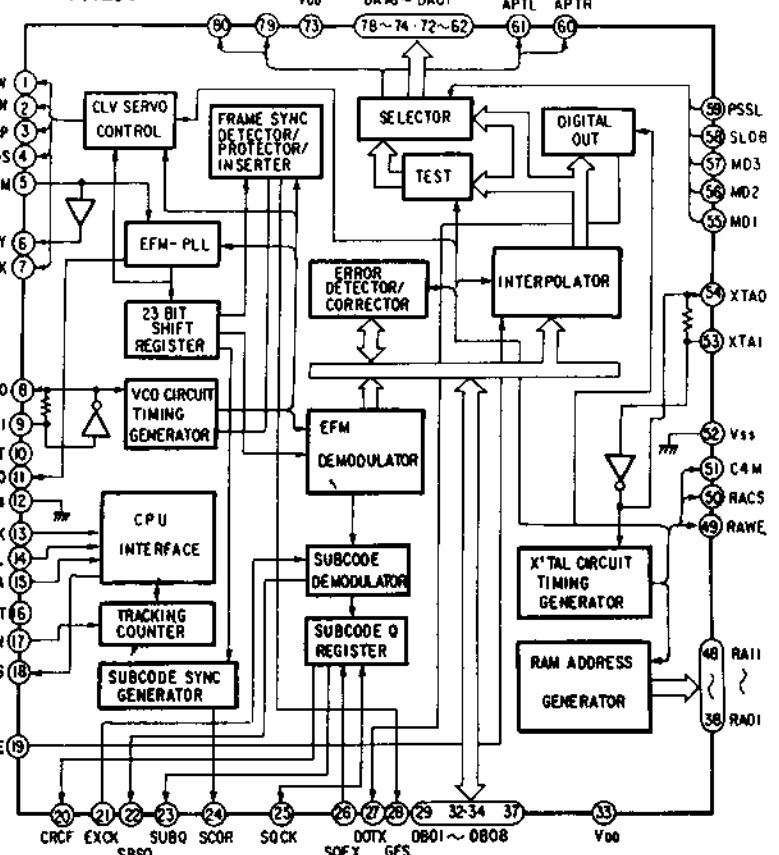
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color

The compo mark A or A are critical. Replace only specified.
Les composés marqués A sont critiques. Ne les remplacer que par les pièces portantes.

(1) UPPER AND BOTTOM PANEL ASSEMBLIES

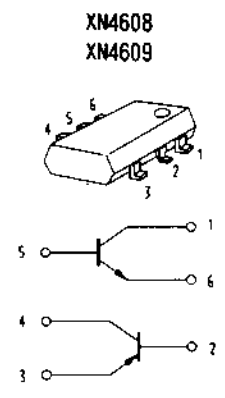
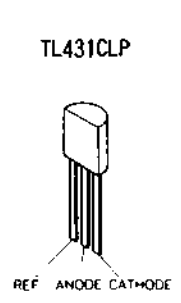
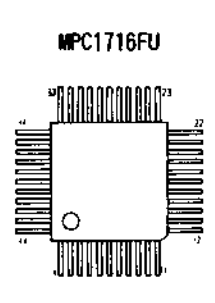
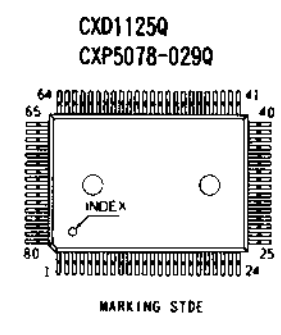
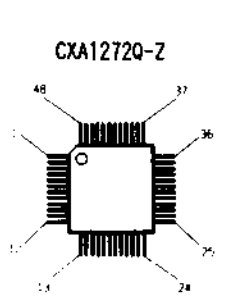


IC601
CXD1125Q



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description
1	4-917-774-01	SHEET, DISK HOLD		27	4-924-165-01	CHIP, LOCK, BATTE
2	4-908-712-01	WASHER		28	4-932-743-01	LID (A), BATTERY C
3	9-986-870-01	SPRING, GROUND		29	3-703-816-02	SCREW (M1.4X2.0),
4	4-917-737-01	PLATE (A), CHUCK		30	4-927-589-11	SCREW (M1.4X1.6)
5	*3-329-460-01	SPACER		31	3-703-816-12	SCREW (M1.4X4.0),
9	4-917-738-01	PLATE (B), CHUCK		32	4-908-792-51	SCREW (B2X5), TAP
10	X-4921-253-1	PANEL ASSY, UPPER		33	3-318-203-71	SCREW (B1.7X5), TA
11	4-932-757-01	BAR, FULCRUM		34	3-831-441-XX	SPACER, KNOB
12	4-932-754-01	HINGE (LEFT)		35	3-703-816-42	SCREW (M1.4X2.5),
13	4-932-736-01	HINGE (RIGHT)		36	4-935-734-01	SPACER (S)
14	9-911-838-XX	CUSHION		37	*4-924-188-01	CUSHION
15	X-4921-251-1	RETAINER ASSY, ARM		38	*4-935-724-01	SPACER (L)
16	3-321-813-11	WASHER, COTTER POLYETHYLENE		39	*2-387-601-01	CUSHION, RUBBER
17	4-935-719-01	SPRING		40	*4-935-727-01	SPACER (FU)
18	4-935-720-01	SHEET, GROUND		41	*4-935-728-01	CUSHION (F/R)
19	4-932-738-01	LID (B), BATTERY CASE		42	*4-926-587-01	SPACER
20	4-932-758-01	CASE (B), BATTERY		43	4-917-784-01	SPACER (S)
21	*4-932-795-01	SHEET, INSULATING, BOTTOM		901	1-808-780-11	MODULE, UPPER LI
22	X-4921-259-1	PANEL ASSY, BOTTOM		911	1-452-414-11	MAGNET
24	4-912-641-01	FOOT, RUBBER		912	9-996-857-01	SW BOARD
25	4-932-767-01	CASE (A), BATTERY		913	9-996-859-01	SW FLEXIBLE BOAR
26	4-935-717-01	SHEET, BATTERY CASE		914	9-996-858-01	CONNECTION FLEXI

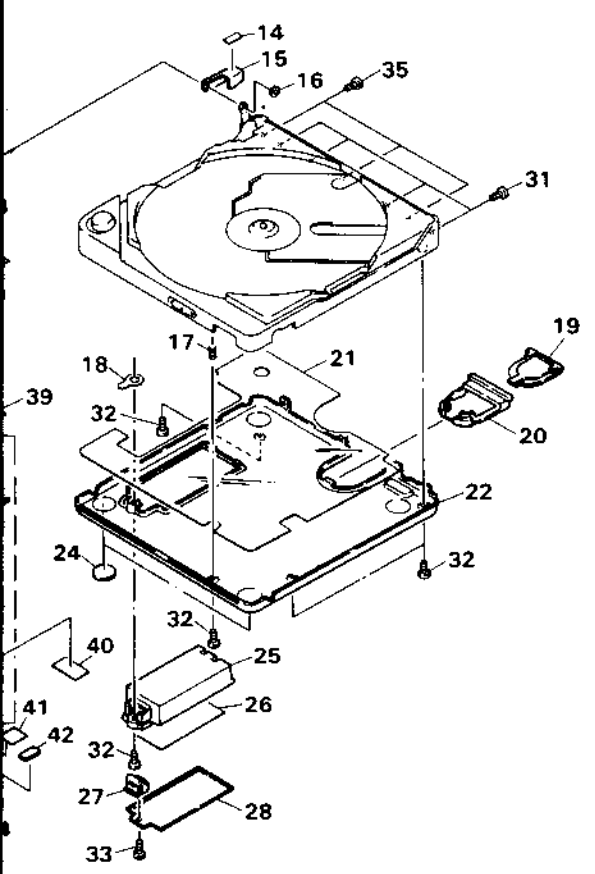
Layouts



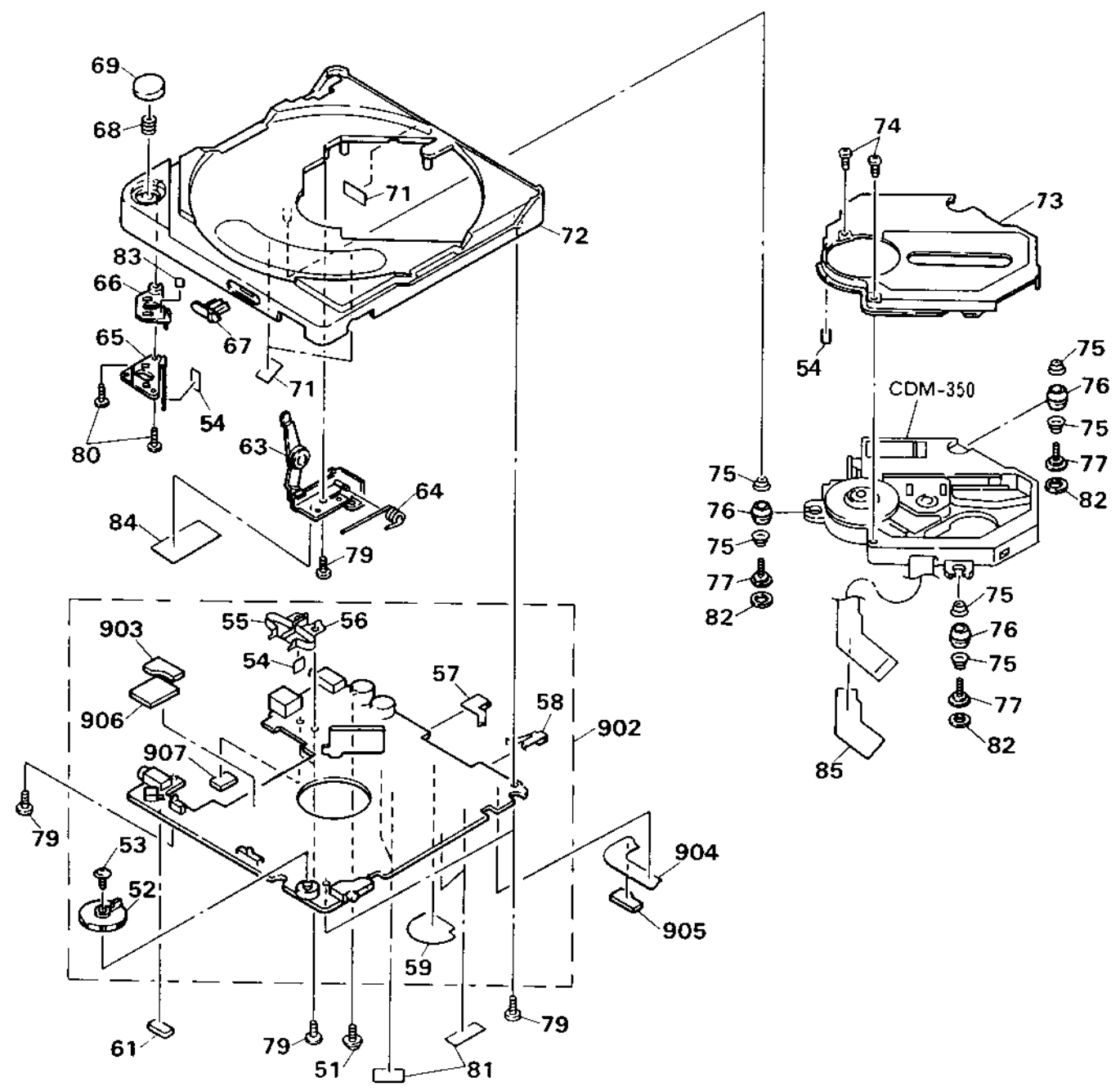
SECTION 5
EXPLODED VIEWS

Standardization, parts with part number ending in .XX and .X may be different from the parts specified in the manual used on the set.
Identification of Appearance Parts
KNOB, BALANCE (WHITE)
↑
Color Parts' Color

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



(2) CABINET SECTION

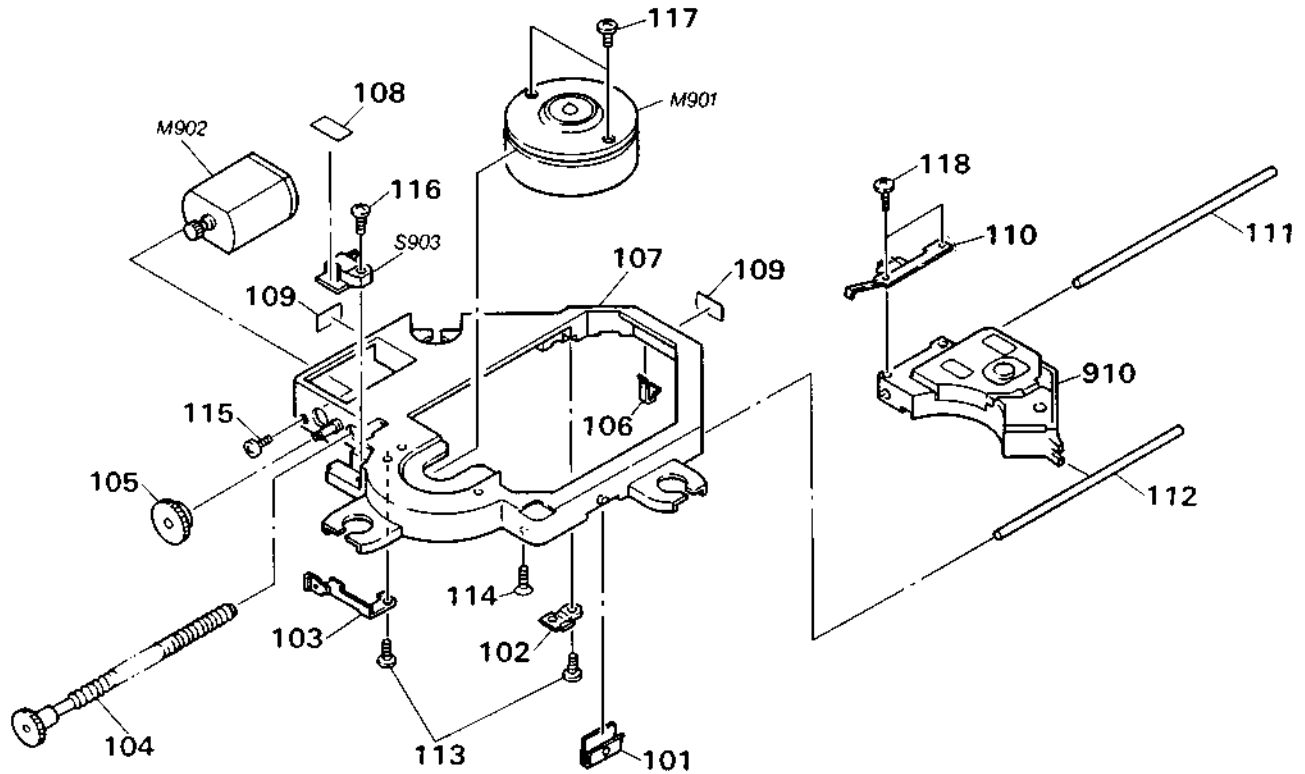


Ref.No	Part No.	Description	Remarks
27	4-924-165-01	CHIP, LOCK, BATTERY CASE LID	
28	4-932-743-01	LID (A), BATTERY CASE	
29	3-703-816-02	SCREW (M1.4X2.0), SPECIAL HEAD	
30	4-927-589-11	SCREW (M1.4X1.6)	
31	3-703-816-12	SCREW (M1.4X4.0), SPECIAL HEAD	
32	4-908-792-51	SCREW (B2X5), TAPPING, P1	
33	3-318-203-71	SCREW (B1.7X5), TAPPING	
34	3-831-441-XX	SPACER, KNOB	
35	3-703-816-42	SCREW (M1.4X2.5), SPECIAL HEAD	
36	4-935-734-01	SPACER (S)	
37	*4-924-188-01	CUSHION	
38	*4-935-724-01	SPACER (L)	
39	*2-387-601-01	CUSHION, RUBBER	
40	*4-935-727-01	SPACER (FU)	
41	*4-935-728-01	CUSHION (F/R)	
42	*4-926-587-01	SPACER	
43	4-917-784-01	SPACER (S)	
901	1-808-780-11	MODULE, UPPER LID PANEL	3, 912-914
911	1-452-414-11	MAGNET	
912	9-996-857-01	SW BOARD	
913	9-996-859-01	SW FLEXIBLE BOARD	
914	9-996-858-01	CONNECTION FLEXIBLE BOARD	




Ref.No	Part No.	Description	Remarks
51	3-335-797-21	SCREW (M1.4X3), TOOTHED LOCK	
52	4-932-763-01	KNOB, VOLUME	
53	3-703-502-31	SCREW	
54	9-911-838-XX	CUSHION	
55	4-932-739-01	SPRING (LEFT)	
56	4-932-740-01	SPRING (RIGHT)	
57	4-932-752-01	TERMINAL ()	
58	4-932-751-01	TERMINAL (-)	
59	4-935-715-01	SHEET, INSULATING, BATTERY	
61	9-911-841-XX	CUSHION, CASSETTE LID	
63	X-4921-252-1	ARM ASSY, SWITCHING	
64	4-932-734-01	SPRING	
65	X-4921-250-1	RETAINER ASSY, LEVER	
66	4-932-759-01	LEVER, LOCK	
67	4-932-744-01	KNOB, D.B.B.	
68	4-917-727-01	SPRING, COMPRESSION	
69	4-932-746-01	BUTTON, OPEN	
71	3-831-441-XX	SPACER, KNOB	
72	4-932-770-03	CABINET	
73	4-932-789-01	COVER, MD	

Ref.No	Part No.	Description	Remarks
74	3-895-823-41	SCREW (B1.4X4), TAPPING	
75	4-932-792-01	SPRING, COMPRESSION	
76	4-932-791-01	INSULATOR	
77	4-932-780-01	SCREW, STEP	
79	4-908-792-51	SCREW (B2X5), TAPPING, P1	
80	3-316-938-31	SCREW (B1.4X4), TAPPING	
81	3-831-441-11	CUSHION B	
82	4-917-785-01	SPACER	
83	4-926-624-01	SPACER (JACK)	
84	*4-935-727-01	SPACER (FU)	
85	*4-935-723-01	PAPER, SHIELD	
902	A-3015-837-A	(US, Canadian, AEP, E. Australian).... PC BOARD ASSY, MAIN	
902	A-3015-880-A	(UK).... PC BOARD ASSY, MAIN	
903	*1-633-535-11	PC BOARD, MIC	
904	1-631-867-11	PC BOARD, FLEXIBLE	
905	1-568-888-11	SOCKET, CONNECTOR	
906	*1-633-678-11	PC BOARD, FAD	
907	*1-633-692-11	PC BOARD, BAP	

(3) OPTICAL PICK-UP MECHANISM (CDM-350)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
101	4-932-779-01	RETAINER (A), FLEXIBLE		112	4-932-775-01	SHAFT (B)	
102	4-932-776-01	RETAINER, SHAFT		113	3-895-823-41	SCREW (B1.4X4), TAPPING	
103	4-932-786-01	SPRING, LEAF		114	4-921-299-21	SCREW (1.7X6), SPECIAL	
104	X-4921-254-1	FEED SCREW ASSY		115	4-932-773-11	SCREW	
105	4-932-778-01	GEAR (B)		116	4-908-792-91	SCREW (B2X7), TAPPING, P1	
106	4-932-777-01	RETAINER (B), FLEXIBLE		117	7-627-450-48	SCREW,PRECISION +KL7X2.5TYPE1	
107	*4-932-790-01	CHASSIS		118	3-891-132-00	SCREW (M1.7X2.0), SPECIAL HEAD	
108	9-911-838-XX	CUSHION		910	△X-4921-260-1	PICKUP, OPTICAL SF-89	
109	3-831-441-XX	SPACER, KNOB		M901	A-3133-398-A	MOTOR ASSY, CLV	
110	4-932-785-01	RACK (OUTSERT)		M902	X-4921-256-1	FEED MOTOR ASSY	
111	4-932-784-01	SHAFT (A)		S903	1-572-025-11	SWICH, MICRO (LIMIT)	

<p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ PF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

• MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
 UA...: μ A..., UPA...: μ PA...,
 UPC...: μ PC, UPD...: μ PD...

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
901	1-808-780-11	MODULE, UPPER LID PANEL
902	A-3015-837-A	(US, Canadian, AEP, E, Australian).... PC BOARD ASSY, MAIN
902	A-3015-880-A	(UK).... PC BOARD ASSY, MAIN
903	*1-633-535-11	PC BOARD, MIC
904	1-631-867-11	PC BOARD, FLEXIBLE
905	1-568-888-11	SOCKET, CONNECTOR
906	*1-633-678-11	PC BOARD, FAD
907	*1-633-692-11	PC BOARD, BAP
910	Δ .X-4921-260-1	PICKUP, OPTICAL SF-89
911	1-452-414-11	MAGNET
912	9-996-857-01	SW BOARD
913	9-996-859-01	SW FLEXIBLE BOARD
914	9-996-858-01	CONNECTION FLEXIBLE BOARD

CAPACITOR

C103	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C104	1-135-181-21	TANTAL CHIP	4.7MF	20%	6.3V
C105	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C106	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C107	1-124-576-11	ELECT	220MF	20%	4V
C110	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C111	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C203	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C204	1-135-181-21	TANTAL CHIP	4.7MF	20%	6.3V
C205	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C206	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C207	1-126-369-11	ELECT	220MF	20%	6.3V
C210	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C211	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C301	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C302	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C303	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C304	1-135-092-21	TANTAL CHIP	3.3MF	20%	16V
C305	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C306	1-135-072-21	TANTAL CHIP	0.22MF	20%	35V
C307	1-126-153-11	ELECT	22MF	20%	6.3V
C308	1-135-144-11	TANTAL CHIP	22MF	20%	6.3V
C309	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C310	1-124-431-00	ELECT	33MF	20%	4V
C311	1-124-431-00	ELECT	33MF	20%	4V
C313	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C314	1-124-584-00	ELECT	100MF	20%	6.3V
C319	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C320	1-135-144-11	TANTAL CHIP	22MF	20%	6.3V
C321	1-135-144-11	TANTAL CHIP	22MF	20%	6.3V
C322	1-135-144-11	TANTAL CHIP	22MF	20%	6.3V
C323	1-135-180-21	TANTAL CHIP	3.3MF	20%	4V
C324	1-164-346-11	CERAMIC CHIP	1MF		16V
C401	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C402	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C403	1-124-584-00	ELECT	100MF	20%	6.3V
C404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C405	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C406	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V

Ref.No	Part No.	Description			
C407	1-126-599-11	ELECT	330MF	20%	6.3V
C408	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C409	1-135-174-11	TANTAL CHIP	10MF	20%	10V
C410	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C411	1-135-162-21	TANTAL CHIP	33MF	20%	4V
C412	1-135-162-21	TANTAL CHIP	33MF	20%	4V
C413	1-135-144-11	TANTAL CHIP	22MF	20%	6.3V
C414	1-135-149-21	(US, Canadian, AEP, E, Australian).... TANTAL CHIP	2.2MF	20%	6.3V
C414	1-135-181-21	(UK).... TANTAL CHIP	4.7MF	20%	6.3V
C415	1-135-174-11	TANTAL CHIP	10MF	20%	10V
C417	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C418	1-124-442-00	ELECT	330MF	20%	6.3V
C419	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C423	1-164-346-11	CERAMIC CHIP	1MF		16V
C424	1-162-638-11	CERAMIC CHIP	1MF		16V
C425	1-164-346-11	CERAMIC CHIP	1MF		16V
C426	1-135-181-21	(UK).... TANTAL CHIP	4.7MF	20%	6.3V
C427	1-164-346-11	CERAMIC CHIP	1MF		16V
C501	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C502	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C503	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C504	1-135-149-21	TANTAL CHIP	2.2MF	20%	6.3V
C505	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C506	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C507	1-135-162-21	TANTAL CHIP	33MF	20%	4V
C508	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C509	1-135-131-11	TANTAL CHIP	22MF	20%	4V
C510	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C511	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C512	1-135-162-21	TANTAL CHIP	33MF	20%	4V
C513	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C514	1-135-162-21	TANTAL CHIP	33MF	20%	4V
C516	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C517	1-135-149-21	TANTAL CHIP	2.2MF	20%	6.3V
C518	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C519	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C520	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C521	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C522	1-126-153-11	ELECT	22MF	20%	6.3V
C523	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C524	1-135-131-11	TANTAL CHIP	22MF	20%	4V
C525	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C526	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C527	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C528	1-135-130-11	TANTAL CHIP	4.7MF	20%	6.3V
C529	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C530	1-164-346-11	CERAMIC CHIP	1MF		16V
C531	1-124-225-00	ELECT	100MF	20%	6.3V
C532	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C533	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C534	1-164-005-11	CERAMIC CHIP	0.47MF		25V

Ref.No	Part No.	Description				Ref.No	Part No.	Description			
C535	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D417	8-719-938-72	DIODE SB01-05CP			
C536	1-163-038-00	CERAMIC CHIP	0.1MF		25V	D419	8-719-800-76	DIODE 1SS226			
C537	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	D420	8-719-400-18	DIODE MA152WK			
C538	1-135-157-21	TANTAL CHIP	10MF	20%	4V	D421	8-719-975-33	DIODE RB110C			
C539	1-135-157-21	TANTAL CHIP	10MF	20%	4V	D501	8-719-938-72	DIODE SB01-05CP			
C540	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D502	8-719-938-72	DIODE SB01-05CP			
C541	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D503	8-719-938-72	DIODE SB01-05CP			
C542	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	D701	8-719-400-18	DIODE MA152WK			
C543	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	D702	8-719-400-18	DIODE MA152WK			
C544	1-135-149-21	TANTAL CHIP	2.2MF	20%	6.3V	D705	8-719-400-18	DIODE MA152WK			
C545	1-126-599-11	ELECT	330MF	20%	6.3V	D801	8-719-938-72	DIODE SB01-05CP			
C546	1-135-091-00	TANTAL CHIP	1MF	20%	16V	D802	8-719-800-76	DIODE 1SS226			
C547	1-135-174-11	TANTAL CHIP	10MF	20%	10V	D805	8-719-400-18	DIODE MA152WK			
C548	1-164-222-11	CERAMIC CHIP	0.22MF		25V	D806	8-719-400-18	DIODE MA152WK			
C549	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V	D807	8-719-400-18	DIODE MA152WK			
C550	1-162-638-11	CERAMIC CHIP	1MF		16V	IC301	8-752-334-07	IC CXD2551M			
C551	1-163-038-00	CERAMIC CHIP	0.1MF		25V	IC302	8-759-148-30	IC UPD6376			
C552	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	IC303	8-759-991-27	IC BA3570F			
C553	1-162-638-11	CERAMIC CHIP	1MF		16V	IC304	8-759-230-43	IC TC7S04F			
C554	1-162-638-11	CERAMIC CHIP	1MF		16V	IC401	8-759-013-27	IC MC34063ML			
C555	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	IC402	8-759-995-27	IC MB3776APF			
C556	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	IC403	8-759-230-43	IC TC7S04F			
C557	1-135-174-11	TANTAL CHIP	10MF	20%	10V	IC404	8-759-994-55	IC RH5RC351A			
C558	1-135-091-00	TANTAL CHIP	1MF	20%	16V	IC406	8-759-710-82	IC NJM2406F			
C559	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	IC407	8-759-908-15	IC TL431CLP			
C560	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	IC407	8-759-908-15	IC TL431CLP			
C561	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	IC501	8-752-036-76	IC CXA1271Q-T3			
C562	1-135-131-11	TANTAL CHIP	22MF	20%	4V	IC502	8-752-033-54	IC CXA1272Q-Z			
C564	1-164-346-11	CERAMIC CHIP	1MF		16V	IC503	8-759-710-79	IC NJM2107F			
C601	1-162-638-11	CERAMIC CHIP	1MF		16V	IC504	8-759-030-17	IC MPC1715			
C604	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC505	8-759-230-43	IC TC7S04F			
C605	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC601	8-752-332-38	IC CXD1125Q			
C607	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC602	8-752-328-67	IC CXK5816MA-15L			
C608	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC701	8-759-710-79	IC NJM2107F			
C701	1-164-346-11	CERAMIC CHIP	1MF		16V	IC702	8-759-230-43	IC TC7S04F			
C702	1-163-038-00	CERAMIC CHIP	0.1MF		25V	IC703	8-759-007-43	IC MC74HC00F			
C703	1-164-005-11	CERAMIC CHIP	0.47MF		25V	IC801	8-752-814-73	IC CXP5078-040Q			
C705	1-135-131-11	TANTAL CHIP	22MF	20%	4V	IC802	8-759-986-85	IC S-8052ALR-LF			
C706	1-135-181-21	TANTAL CHIP	4.7MF	20%	6.3V	IC803	8-759-977-64	IC BA3818F			
C707	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	J301	1-568-758-11	JACK (PHONES/REMOTE)			
C801	1-163-116-00	CERAMIC CHIP	91PF	5%	50V	J302	1-563-280-21	JACK (LINE OUT)			
C802	1-163-116-00	CERAMIC CHIP	91PF	5%	50V	J701	1-563-280-31	JACK (REMOTE)			
C803	1-135-149-21	TANTAL CHIP	2.2MF	20%	6.3V	JR301	1-216-295-00	METAL GLAZE 0 5% 1/10W			
C805	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	JR302	1-216-295-00	METAL GLAZE 0 5% 1/10W			
C806	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	JR303	1-216-296-00	(US, Canadian, AEP, E, Australian).... METAL GLAZE 0 5% 1/8W			
C807	1-135-174-11	TANTAL CHIP	10MF	20%	10V	JR401	1-216-295-00	METAL GLAZE 0 5% 1/10W			
C901	1-164-346-11	CERAMIC CHIP	1MF		16V	JR402	1-216-295-00	(US, Canadian, AEP, E, Australian).... METAL GLAZE 0 5% 1/10W			
CN501	1-568-768-11	HOUSING, CONNECTOR 11P				JR403	1-216-296-00	(US, Canadian, AEP, E, Australian).... METAL GLAZE 0 5% 1/8W			
CN502	1-563-552-11	SOCKET, CONNECTOR 4P				JR404	1-216-296-00	(US, Canadian, AEP, E, Australian).... METAL GLAZE 0 5% 1/8W			
CN701	1-569-142-21	HOUSING, CONNECTOR 30P				JR501	1-216-295-00	METAL GLAZE 0 5% 1/10W			
CN401	1-562-961-11	JACK (DC IN 9V)				JR502	1-216-295-00	METAL GLAZE 0 5% 1/10W			
D401	8-719-975-33	DIODE RB110C				JR503	1-216-295-00	METAL GLAZE 0 5% 1/10W			
D402	8-719-975-33	DIODE RB110C				JR701	1-216-295-00	METAL GLAZE 0 5% 1/10W			
D403	8-719-975-33	DIODE RB110C				JR702	1-216-295-00	METAL GLAZE 0 5% 1/10W			
D405	8-719-938-72	DIODE SB01-05CP									
D406	8-719-938-72	DIODE SB01-05CP									
D407	8-719-938-72	DIODE SB01-05CP									
D408	8-719-938-72	DIODE SB01-05CP									
D409	8-719-106-71	DIODE RD12M-B2									
D410	8-719-106-71	DIODE RD12M-B2									
D413	8-719-975-33	DIODE RB110C									
D414	8-719-975-40	DIODE RB411D									
D415	8-719-975-33	DIODE RB110C									
D416	8-719-938-72	DIODE SB01-05CP									

Ref.No	Part No.	Description
L101	1-410-997-31	INDUCTOR CHIP 22UH
L102	1-410-997-31	INDUCTOR CHIP 22UH
L201	1-410-997-31	INDUCTOR CHIP 22UH
L202	1-410-997-31	INDUCTOR CHIP 22UH
L303	1-410-997-31	INDUCTOR CHIP 22UH
L304	1-410-997-31	INDUCTOR CHIP 22UH
L401	1-459-842-11	COIL (WITH CORE)
L402	1-459-961-21	COIL (WITH CORE)
L403	1-412-031-11	INDUCTOR CHIP 47UH
L404	1-412-031-11	INDUCTOR CHIP 47UH
L405	1-412-029-11	INDUCTOR CHIP 10UH
L406	1-412-029-11	INDUCTOR CHIP 10UH
L407	1-412-032-11	INDUCTOR CHIP 100UH
L408	1-412-031-11	INDUCTOR CHIP 47UH
L409	1-412-029-11	INDUCTOR CHIP 10UH
L501	1-412-029-11	INDUCTOR CHIP 10UH
L502	1-412-031-11	INDUCTOR CHIP 47UH
L503	1-412-031-11	INDUCTOR CHIP 47UH
L504	1-412-031-11	INDUCTOR CHIP 47UH
L505	1-412-031-11	INDUCTOR CHIP 47UH
L506	1-412-031-11	INDUCTOR CHIP 47UH
L507	1-412-031-11	INDUCTOR CHIP 47UH
L508	1-412-031-11	INDUCTOR CHIP 47UH
L509	1-412-031-11	INDUCTOR CHIP 47UH
L510	1-412-029-11	INDUCTOR CHIP 10UH
M901	A-3133-398-A	MOTOR ASSY. CLV
M902	X-4921-256-1	FEED MOTOR ASSY
PS401	△.1-532-679-21	(UK)... LINK, IC
Q101	8-729-159-64	TRANSISTOR 2SD596
Q201	8-729-159-64	TRANSISTOR 2SD596
Q301	8-729-159-64	TRANSISTOR 2SD596
Q302	8-729-923-36	TRANSISTOR 2SD1963-Q.R
Q303	8-729-923-36	TRANSISTOR 2SD1963-Q.R
Q304	8-729-904-87	TRANSISTOR 2SB1197K-R
Q305	8-729-903-10	TRANSISTOR FMW1
Q306	8-729-921-05	(UK)... TRANSISTOR DTA124EK
Q401	8-729-923-45	TRANSISTOR 2SB1308-QR
Q402	8-729-920-56	TRANSISTOR FMGI
Q403	8-729-216-22	TRANSISTOR 2SA1162
Q404	8-729-901-00	TRANSISTOR DTC124EK
Q405	8-729-923-45	TRANSISTOR 2SB1308-QR
Q407	8-729-923-45	TRANSISTOR 2SB1308-QR
Q408	8-729-923-45	TRANSISTOR 2SB1308-QR
Q409	8-729-924-79	TRANSISTOR FMG8
Q411	8-729-923-36	TRANSISTOR 2SD1963-Q.R
Q413	8-729-159-64	TRANSISTOR 2SD596
Q414	8-729-901-05	TRANSISTOR DTA124EK
Q415	8-729-901-00	TRANSISTOR DTC124EK
Q416	8-729-920-56	TRANSISTOR FMGI
Q417	8-729-107-43	TRANSISTOR 2SC3624-L18
Q418	8-729-230-49	TRANSISTOR 2SC2712-YG
Q419	8-729-903-30	TRANSISTOR DTC144TK
Q501	8-729-402-90	TRANSISTOR XN4609
Q502	8-729-904-87	TRANSISTOR 2SB1197K-R
Q505	8-729-901-00	TRANSISTOR DTC124EK
Q506	8-729-901-00	TRANSISTOR DTC124EK
Q507	8-729-924-79	TRANSISTOR FMG8
Q701	8-729-906-45	TRANSISTOR DTA143XK
Q702	8-729-901-00	TRANSISTOR DTC124EK
Q704	8-729-901-05	TRANSISTOR DTA124EK
Q705	8-729-900-99	TRANSISTOR DTA144WK
Q706	8-729-923-04	TRANSISTOR DTC123YK
Q707	8-729-901-00	TRANSISTOR DTC124EK
Q801	8-729-902-96	TRANSISTOR FMS1
Q802	8-729-902-96	TRANSISTOR FMS1
Q803	8-729-902-96	TRANSISTOR FMS1
Q804	8-729-903-29	TRANSISTOR DTA144TK
Q805	8-729-901-05	TRANSISTOR DTA124EK
Q806	8-729-402-16	TRANSISTOR XN4608

Ref.No	Part No.	Description
RESISTOR		
R101	1-216-047-00	METAL GLAZE 820 5% 1/10W
R102	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R103	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R104	1-216-033-00	METAL GLAZE 220 5% 1/10W
R106	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R108	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R109	1-216-037-00	METAL GLAZE 330 5% 1/10W
R110	1-216-001-00	METAL GLAZE 10 5% 1/10W
R201	1-216-047-00	METAL GLAZE 820 5% 1/10W
R202	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R203	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R204	1-216-033-00	METAL GLAZE 220 5% 1/10W
R206	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R208	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R209	1-216-037-00	METAL GLAZE 330 5% 1/10W
R210	1-216-001-00	METAL GLAZE 10 5% 1/10W
R301	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R302	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R303	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R304	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R306	1-216-013-00	METAL GLAZE 33 5% 1/10W
R307	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R308	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R310	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R311	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R313	1-216-043-00	METAL GLAZE 560 5% 1/10W
R314	1-216-043-00	METAL GLAZE 560 5% 1/10W
R315	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R316	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R317	1-216-101-00	METAL GLAZE 150K 5% 1/10W
R318	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R319	1-216-101-00	METAL GLAZE 150K 5% 1/10W
R320	1-216-129-00	METAL GLAZE 2.2M 5% 1/10W
R323	1-216-198-00	(UK)... METAL GLAZE 1K 5% 1/8W
R324	1-216-150-00	(UK)... METAL GLAZE 10 5% 1/8W
R401	1-216-047-00	METAL GLAZE 820 5% 1/10W
R402	1-216-035-00	METAL GLAZE 270 5% 1/10W
R403	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R404	1-216-662-11	METAL CHIP 3K 0.50% 1/10W
R405	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W
R406	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R407	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R408	1-216-304-11	METAL GLAZE 3.3 5% 1/10W
R409	1-216-304-11	METAL GLAZE 3.3 5% 1/10W
R410	1-216-748-11	METAL GLAZE 39K 5% 1/10W
R411	1-216-033-00	METAL GLAZE 220 5% 1/10W
R412	1-216-748-11	METAL GLAZE 39K 5% 1/10W
R413	1-216-748-11	METAL GLAZE 39K 5% 1/10W
R414	1-216-017-00	METAL GLAZE 47 5% 1/10W
R415	1-216-025-00	METAL GLAZE 100 5% 1/10W
R416	1-216-041-00	METAL GLAZE 470 5% 1/10W
R418	1-216-186-00	METAL GLAZE 330 5% 1/8W
R419	1-216-186-00	METAL GLAZE 330 5% 1/8W
R420	1-216-186-00	METAL GLAZE 330 5% 1/8W
R420	1-216-037-00	(UK)... METAL GLAZE 330 5% 1/10W

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

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description							
R421	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R422	1-216-077-00	METAL GLAZE	15K	5%	1/10W				
R423	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W				
R424	1-216-047-00	METAL GLAZE	820	5%	1/10W				
R425	1-216-121-00	METAL GLAZE	1M	5%	1/10W				
R426	1-216-049-00	METAL GLAZE	1K	5%	1/10W				
R427	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R428	1-216-092-00	METAL GLAZE	62K	5%	1/10W				
R429	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W				
R430	1-216-662-11	METAL CHIP	3K	0.50%	1/10W				
R431	1-216-041-00	METAL GLAZE	470	5%	1/10W				
R432	1-216-115-00	METAL GLAZE	560K	5%	1/10W				
R433	1-216-120-00	METAL GLAZE	910K	5%	1/10W				
R434	1-216-041-00	METAL GLAZE	470	5%	1/10W				
R435	1-216-111-00	METAL GLAZE	390K	5%	1/10W				
R436	1-216-111-00	METAL GLAZE	390K	5%	1/10W				
R438	1-216-106-00	METAL GLAZE	240K	5%	1/10W				
R439	1-216-025-00	(UK).... METAL GLAZE	100	5%	1/10W				
R502	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
R503	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R504	1-216-049-00	METAL GLAZE	1K	5%	1/10W				
R505	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R506	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R507	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W				
R508	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W				
R509	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R510	1-216-001-00	METAL GLAZE	10	5%	1/10W				
R511	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R512	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R513	1-216-109-00	METAL GLAZE	330K	5%	1/10W				
R516	1-216-077-00	METAL GLAZE	15K	5%	1/10W				
R517	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R519	1-216-095-00	METAL GLAZE	82K	5%	1/10W				
R520	1-216-105-00	METAL GLAZE	220K	5%	1/10W				
R521	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R522	1-216-094-00	METAL GLAZE	75K	5%	1/10W				
R523	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W				
R524	1-216-115-00	METAL GLAZE	560K	5%	1/10W				
R525	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R526	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W				
R527	1-216-683-11	METAL CHIP	22K	0.50%	1/10W				
R528	1-216-103-00	METAL GLAZE	180K	5%	1/10W				
R529	1-216-062-00	METAL GLAZE	3.6K	5%	1/10W				
R530	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W				
R531	1-216-121-00	METAL GLAZE	1M	5%	1/10W				
R532	1-216-683-11	METAL CHIP	22K	0.50%	1/10W				
R533	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W				
R534	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W				
R535	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W				
R536	1-216-095-00	METAL GLAZE	82K	5%	1/10W				
R538	1-216-089-00	METAL GLAZE	47K	5%	1/10W				
R539	1-216-121-00	METAL GLAZE	1M	5%	1/10W				
R541	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
R542	1-216-101-00	METAL GLAZE	150K	5%	1/10W				
R543	1-216-101-00	METAL GLAZE	150K	5%	1/10W				
R544	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
R545	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R546	1-216-748-11	METAL GLAZE	39K	5%	1/10W				
R547	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R548	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W				
R549	1-216-121-00	METAL GLAZE	1M	5%	1/10W				
R550	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
R551	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
R552	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R553	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R554	1-216-105-00	METAL GLAZE	220K	5%	1/10W				
R556	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W				
R559	1-216-093-00	METAL GLAZE	68K	5%	1/10W				
R560	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R561	1-216-047-00	METAL GLAZE	820	5%	1/10W				
R562	1-216-117-00	METAL GLAZE	680K	5%	1/10W				
R601	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R701	1-216-089-00	METAL GLAZE	47K	5%	1/10W				
R703	1-216-683-11	METAL CHIP	22K	0.50%	1/10W				
R704	1-216-683-11	METAL CHIP	22K	0.50%	1/10W				
R705	1-216-682-11	METAL CHIP	20K	0.50%	1/10W				
R706	1-216-109-00	METAL GLAZE	330K	5%	1/10W				
R707	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W				
R708	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R801	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R802	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R803	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R804	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R805	1-216-109-00	METAL GLAZE	330K	5%	1/10W				
R806	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R808	1-216-121-00	METAL GLAZE	1.0M	5%	1/10W				
R809	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
R811	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R812	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R813	1-216-773-11	METAL GLAZE	68K	5%	1/10W				
R814	1-216-542-11	METAL GLAZE	12K	5%	1/10W				
R815	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R816	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R821	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R822	1-216-833-11	METAL GLAZE	10K	5%	1/10W				
R823	1-216-773-11	METAL GLAZE	68K	5%	1/10W				
R824	1-216-542-11	METAL GLAZE	12K	5%	1/10W				
R825	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R826	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R831	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R832	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R833	1-216-773-11	METAL GLAZE	68K	5%	1/10W				
R834	1-216-542-11	METAL GLAZE	12K	5%	1/10W				
R835	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R836	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R841	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R842	1-216-833-11	METAL GLAZE	10K	5%	1/10W				
R843	1-216-773-11	METAL GLAZE	68K	5%	1/10W				
R844	1-216-542-11	METAL GLAZE	12K	5%	1/10W				
R845	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R846	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R851	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R852	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
R853	1-216-773-11	METAL GLAZE	68K	5%	1/10W				
R854	1-216-542-11	METAL GLAZE	12K	5%	1/10W				
R855	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R856	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R861	1-216-845-11	METAL GLAZE	100K	5%	1/10W				
R862	1-216-833-11	METAL GLAZE	10K	5%	1/10W				
R865	1-216-329-11	METAL GLAZE	5.1K	5%	1/10W				
R866	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W				
R871	1-216-097-00	METAL GLAZE	100K	5%	1/10W				
R872	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
RV301	1-230-485-11	RES, VAR, CARBON 10K/10K (VOLUME)							
RV401	1-237-324-11	RES, ADJ, METAL GLAZE 2.2K							
RV402	1-237-325-11	RES, ADJ, METAL GLAZE 4.7K							
RV403	1-237-330-21	RES, ADJ, METAL GLAZE 220K							
RV501	1-237-119-11	RES, ADJ, METAL GLAZE 22K							
RV502	1-237-119-11	RES, ADJ, METAL GLAZE 22K							

Ref.No	Part No.	Description
RV503	1-237-328-11	RES, ADJ, METAL GLAZE 47K
RV504	1-237-323-11	RES, ADJ, METAL GLAZE 1K
RV505	1-237-119-11	RES, ADJ, METAL GLAZE 22K
S301	1-570-724-11	SWITCH, SLIDE (DBB)
S811	9-996-860-01	TACT SWITCH (SET)
S816	9-996-860-01	TACT SWITCH (TIME)
S821	9-996-860-01	TACT SWITCH (TIMER)
S831	1-570-397-11	SWITCH, SLIDE (HOLD)
S901	1-572-126-11	SWITCH, PUSH (1 KEY) (OPEN)
S902	1-570-953-11	SWITCH, PUSH (1 KEY) (DOOR)
S903	1-572-025-11	SWICH, MICRO (LIMIT)
X301	1-577-576-11	VIBRATOR, CRYSTAL (16.93MHz)
X801	1-567-094-00	VIBRATOR, CERAMIC (3.58MHz)
X802	9-996-868-01	VIBRATOR, CRYSTAL (32.768MHz)

Part No. Description

ACCESSORIES & PACKING MATERIALS

A-3017-195-A	EBP-4 ASSY
X-4921-261-1	CASE ASSY, CARRYING
1-463-694-11	(Canadian)....ADAPTOR, AC (AC-930A)
1-463-700-11	(UK)....ADAPTOR, AC (AC-930A)
1-463-701-11	(Australian)....ADAPTOR, AC (AC-930A)
1-463-702-11	(E)....ADAPTOR, AC (AC-950W)
1-463-705-11	(AEP)....ADAPTOR, AC (AC-930AEP)
1-463-968-11	(US)....ADAPTOR, AC (AC-940)
1-505-106-11	(Canadian, E, Australian).... HEADPHONE (WITH REMOTE CONTROL)
1-505-106-21	(US, AEP, UK).... HEADPHONE (WITH REMOTE CONTROL)
1-528-303-11	BATTERY PACK (BP-5)
1-575-145-11	CORD, CONNECTION
3-751-026-12	(Canadian, AEP, E, Australian).... MANUAL INSTRUCTION
3-751-026-21	(US)....MANUAL INSTRUCTION
3-751-026-41	(AEP)....MANUAL INSTRUCTION
4-916-659-01	LID, BATTERY CASE (FOR EBP-4)
*4-920-407-01	BAG, PROTECTION
*4-935-701-01	CUSHION (UPPER)
*4-935-702-01	(US, Canadian, E)....CUSHION (LOWER)
*4-935-703-01	(US, Canadian)....INDIVIDUAL CARTON
*4-935-707-01	(E)....INDIVIDUAL CARTON
*4-935-708-01	(AEP, UK, Australian)....CUSHION (LOWER)
*4-935-709-01	(AEP, UK, Australian)....INDIVIDUAL CARTON