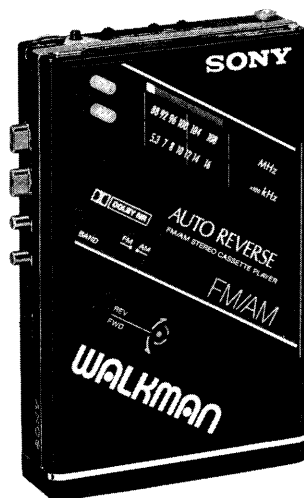


WM-F100

SERVICE MANUAL

*US Model
Canadian Model*



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Frequency range FM: 88–108 MHz
AM: 530–1,605 kHz
Antennas FM: Headphone cord antenna
AM: Built-in ferrite bar antenna

Frequency response (DOLBY NR OFF)

40–15,000 Hz (with the TAPE selector set to CrO₂/METAL)
40–15,000 Hz (with the TAPE selector set to NORM)

Power output 4 mW + 4 mW at dc operation (at 10% harmonic distortion)

Power requirements

1.5 V dc
Rechargeable battery (supplied)
One size AA battery (IEC designation LR6)
DC IN 1.5 V jack on the battery case accepts:
Sony AC-D1 ac power adaptor (optional) for use with 120 V ac, 60 Hz
Sony EBP-10 battery case (optional) for use on two size AA batteries (IEC designation R6)
Sony DCC-70 car battery cord (optional) for use with 12 V car battery

Battery life (hours)

Battery	FM reception	Tape playback
Supplied rechargeable (NC-5WM) (full charge)	Approx. 10	Approx. 2
Sony SUM-3(NS) New Super	Approx. 10	Approx. 2
Sony Eveready AM3 alkaline	Approx. 22	Approx. 4

For maximum performance we recommend the use of alkaline battery.

Tape Transport Mechanism Type

MT-WM101-01

0dB = 0.775V

Dimensions

Approx. 69.8×110.5×21.5mm
(2³/₄×4³/₈×¹/₈ inches) (w/h/d) (with the rechargeable battery case) not incl. projecting parts and controls
Approx. 69.8×119.2×21.5mm
(2³/₄×4³/₄×¹/₈ inches) (w/h/d) (with the battery case) not incl. projecting parts and controls
Approx. 74.6×112.1×23.9mm
(3×4¹/₂×³¹/₃₂ inches) (w/h/d) (with the rechargeable battery case) incl. projecting parts and controls
Approx. 74.6×120.8×23.9mm
(3×4⁷/₈×³¹/₃₂ inches) (w/h/d) (with the battery case) incl. projecting parts and controls
Approx. 210 g (7.2 oz) incl. rechargeable battery and the rechargeable battery case, not incl. other accessories
Approx. 210 g incl. (7.2 oz) battery and the battery case, not incl. other accessories

Weight

FM/AM STEREO CASSETTE-PLAYER
SONY®

SERVICING NOTES

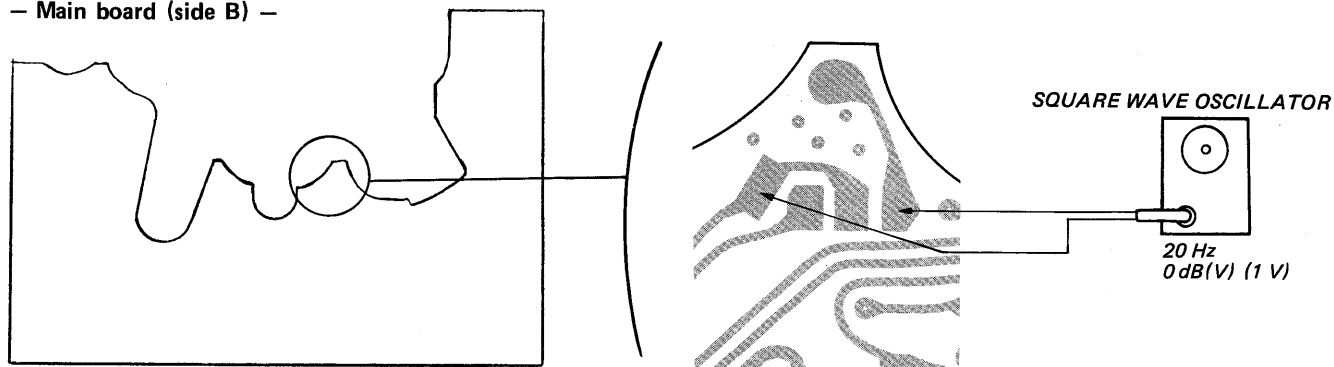
This set detects rotation of reel table by PH701 (Photo interrupter).

It cannot be detected when the main board is removed, because PH701 is mounted on the main board.

Therefore, the auto off circuit and tape end detection will misoperate.

Operation check can be done by the method shown below even when the main board is removed.

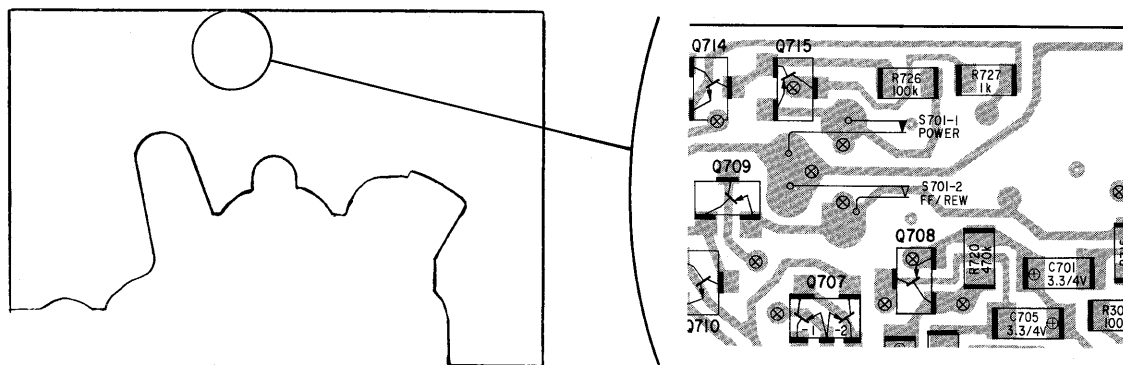
— Main board (side B) —



For PLAY, press the ► button and turn only the POWER switch ON.

For FF and REW, press ►► or ◀◀ button and turn both POWER switch and FF/REW switch ON.

— Main board (side A) —



Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

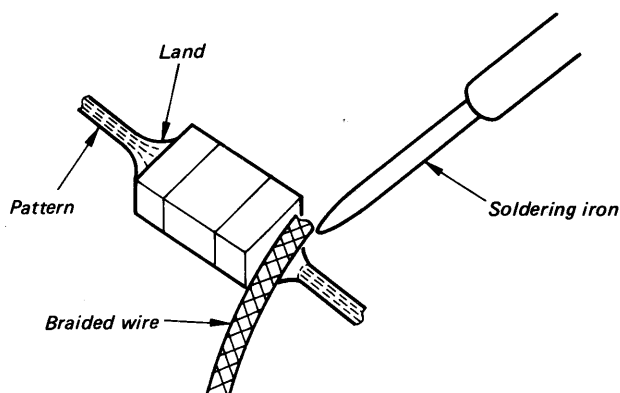
Precautions for replacement

1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
2. Never re-use a disconnected chip component. Dispose of all old chip components.
3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

○ Removing chip components

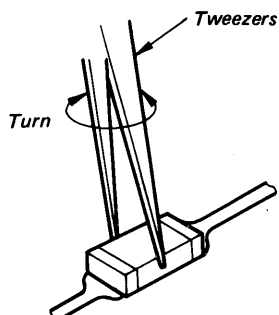
(1) Removing solder at electrode

Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off. Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

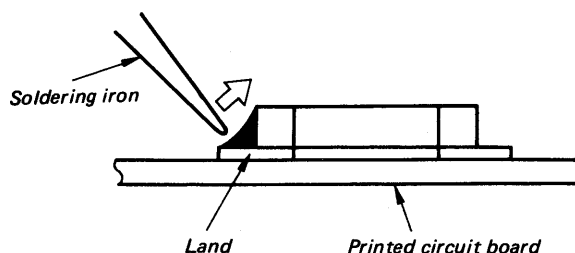
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

Solder the electrode on the other side in the same way as in (2) above.

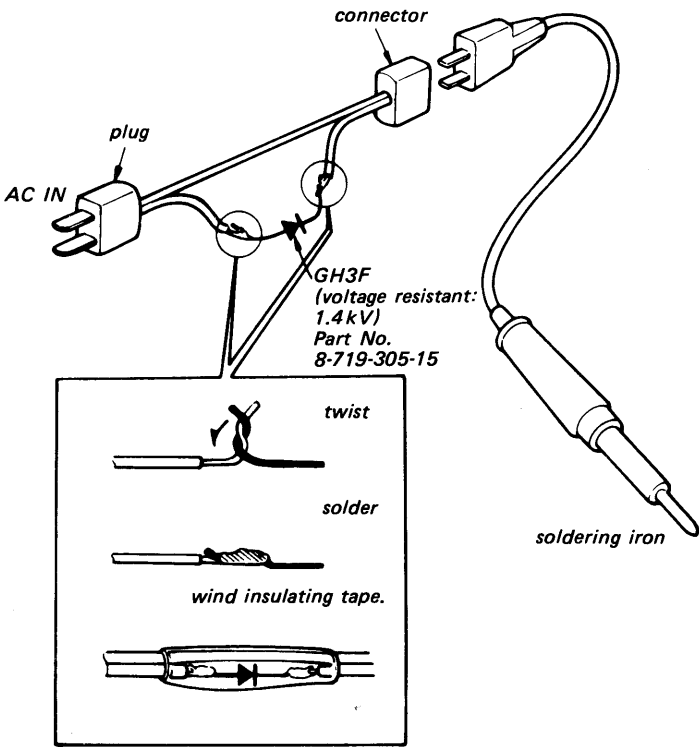
Flexible Circuit Board Repairing

- 1. Keep the temperature of the soldering iron at $270^{\circ} \pm 10^{\circ}\text{C}$ during repairing.
You can maintain the temperature of the soldering iron around 270°C by using the thermal controller as illustrated on the right.
- 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.

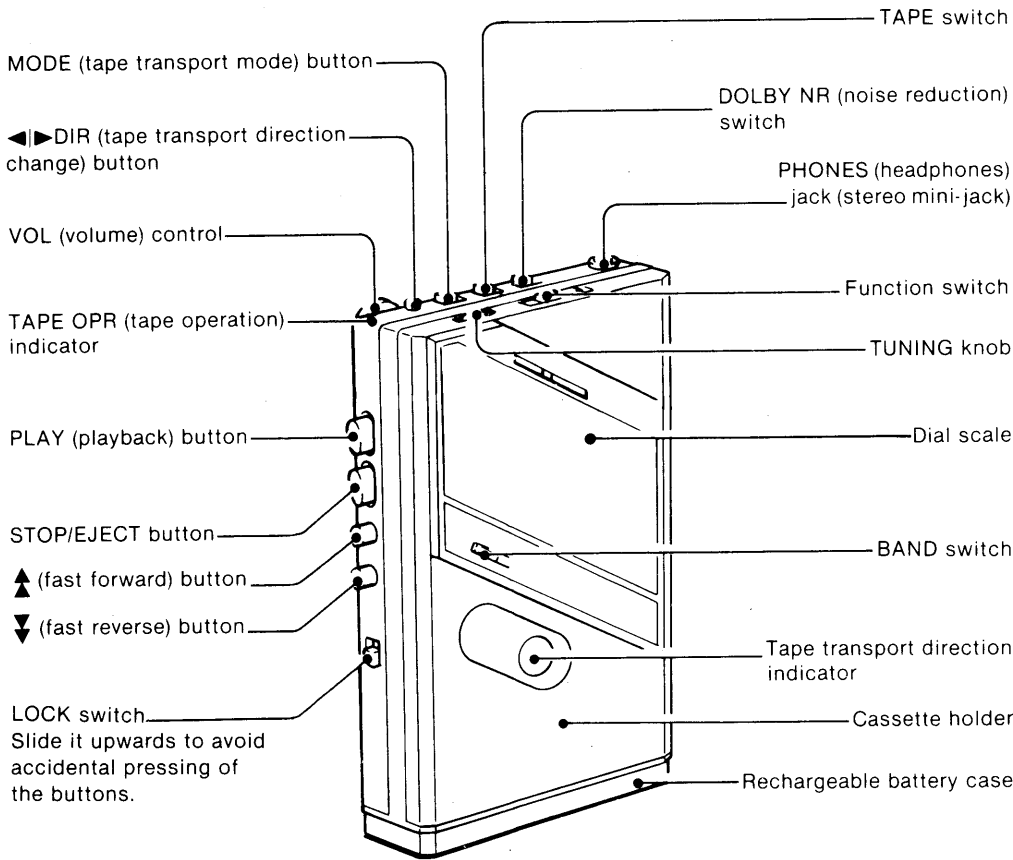
Tip of soldering iron



To make thermal controller of soldering iron



LOCATION OF CONTROLS

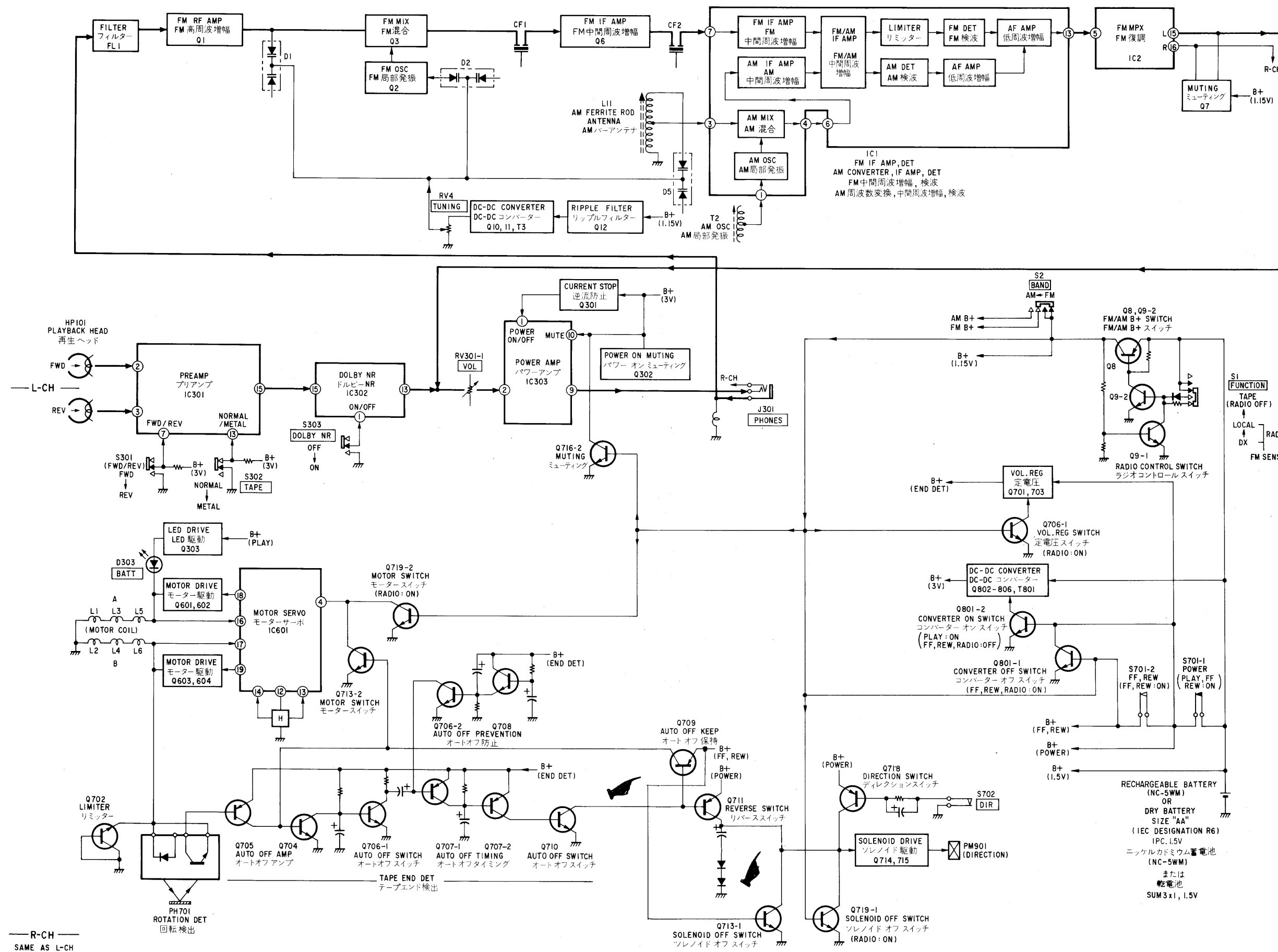


REVISED

WM-F100 WM-F100

REVISED

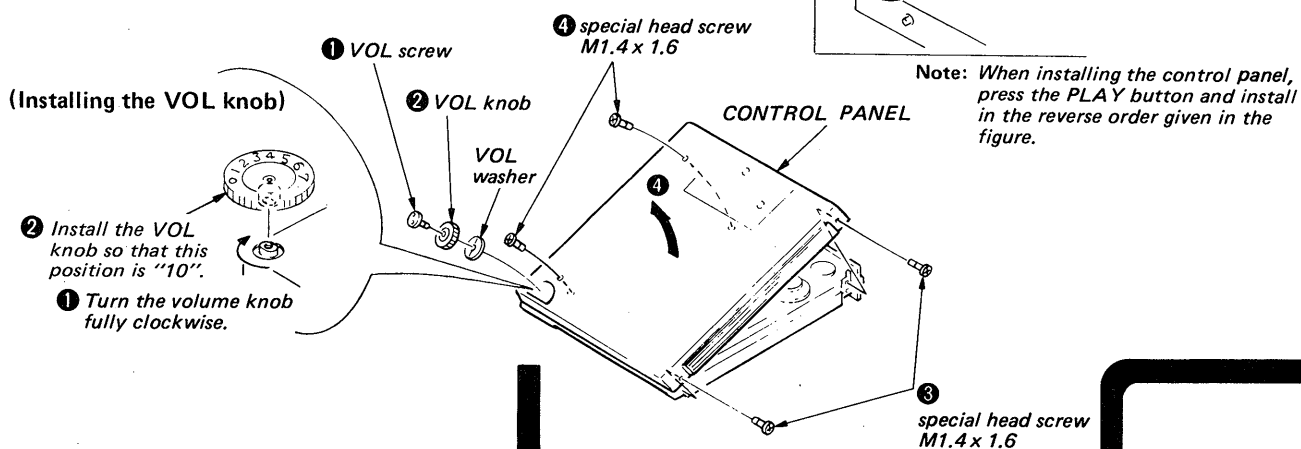
SECTION 1 BLOCK DIAGRAM



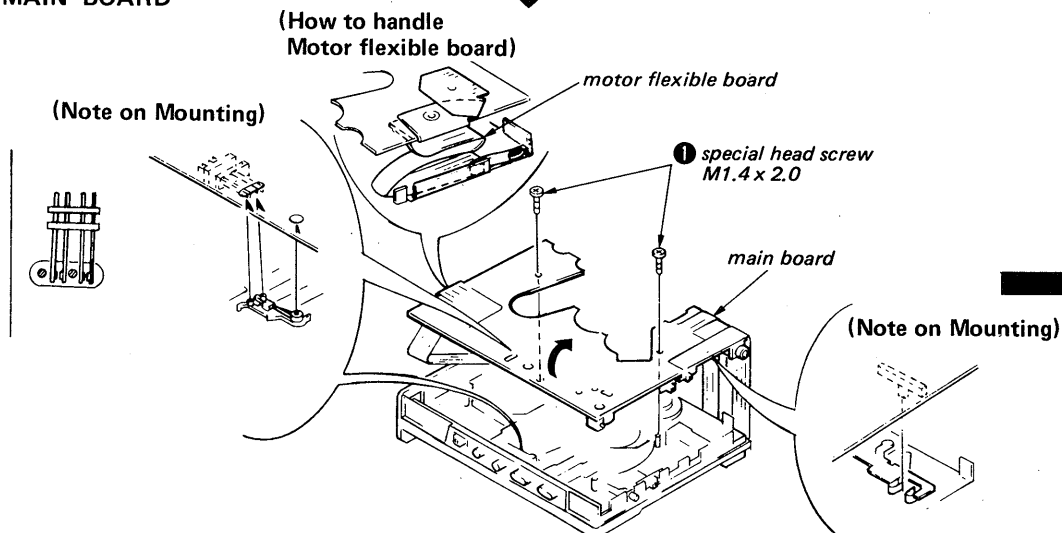
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CONTROL PANEL

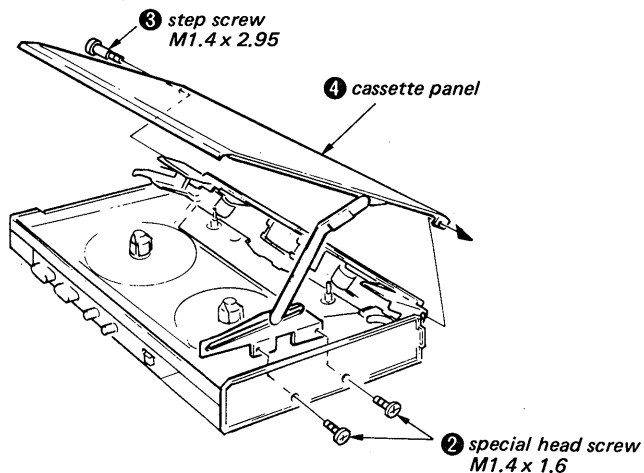


MAIN BOARD

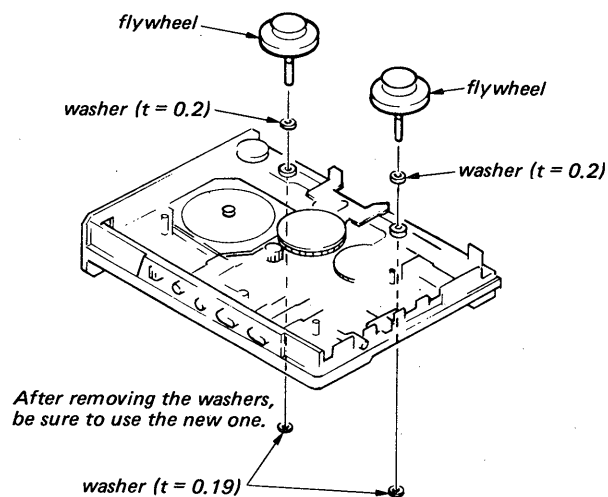


CASSETTE PANEL

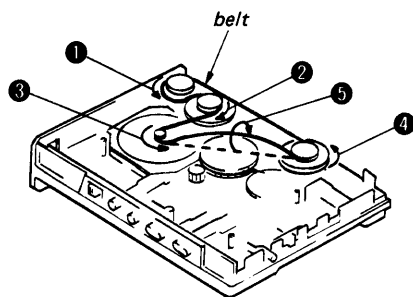
① Open the cassette panel.



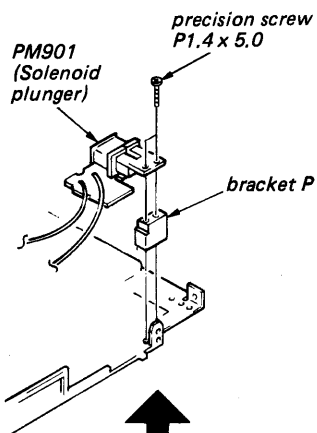
FLYWHEEL



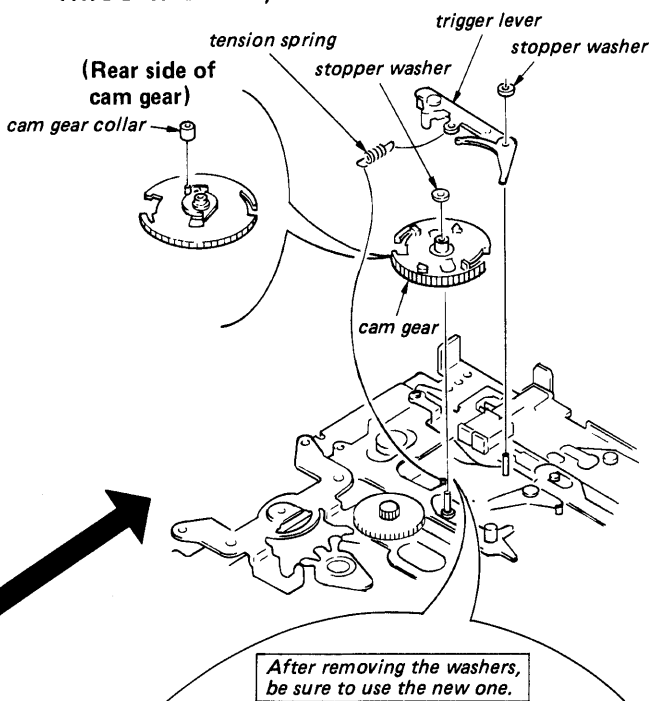
INSTALLING THE BELT



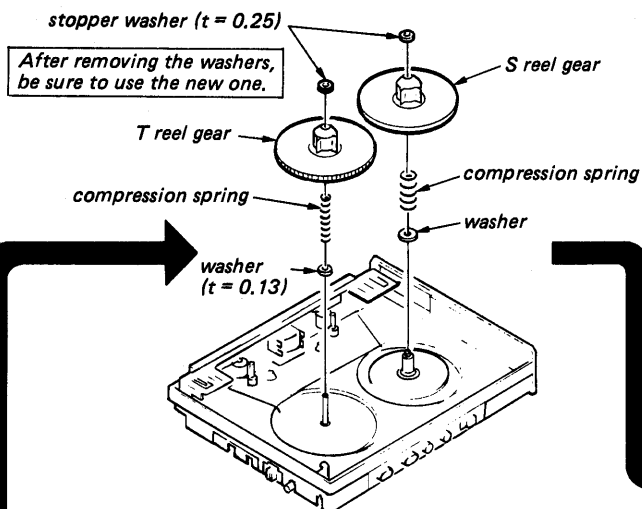
SOLENOID PLUNGER



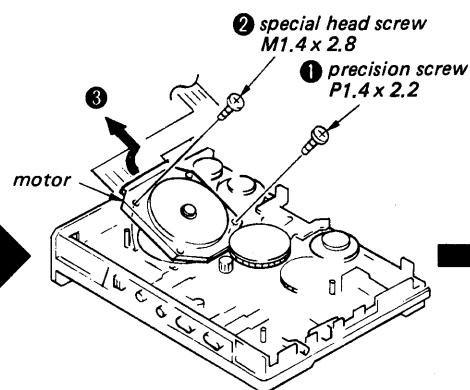
TRIGGER LEVER, CAM GEAR



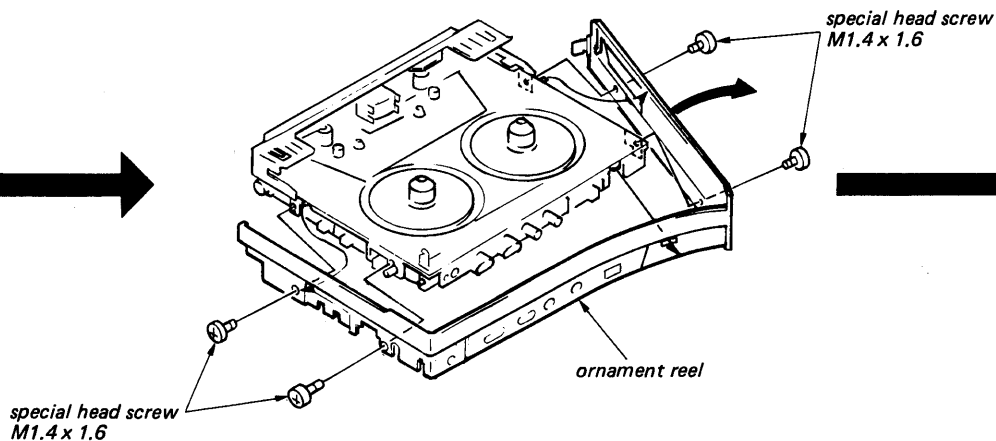
REEL GEAR



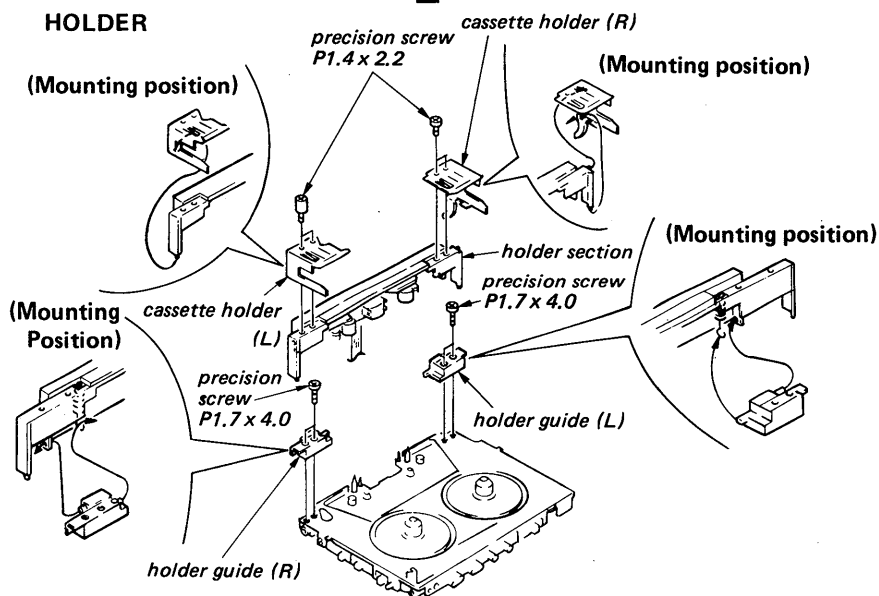
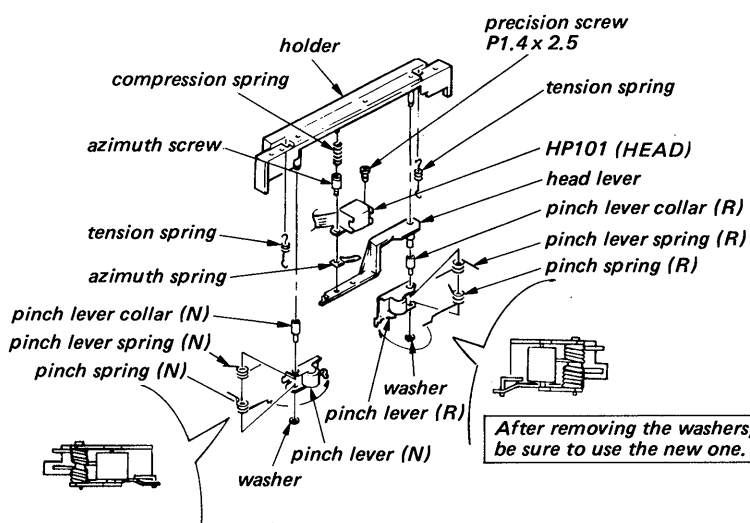
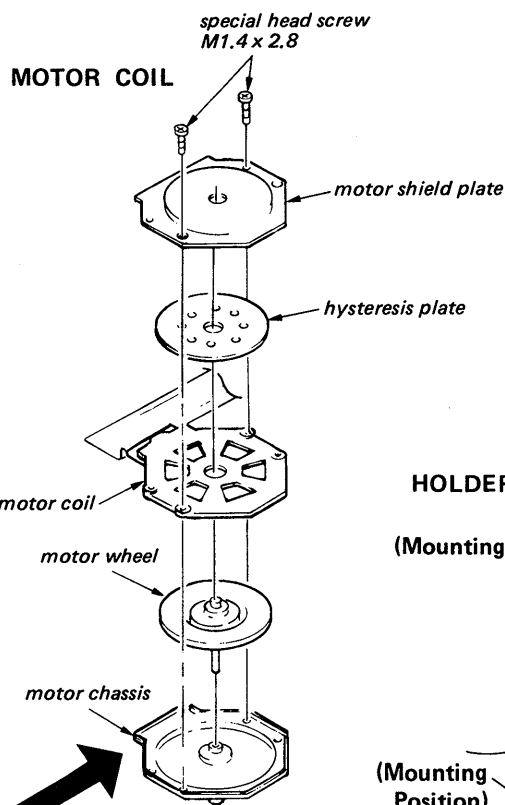
MOTOR



ORNAMENT REEL



HEAD, PINCH ROLLER



Removal

-
- 1 Remove the cassette holder and remove the holder guide screws.
 - 2 Remove the holder section in the direction of the arrow.

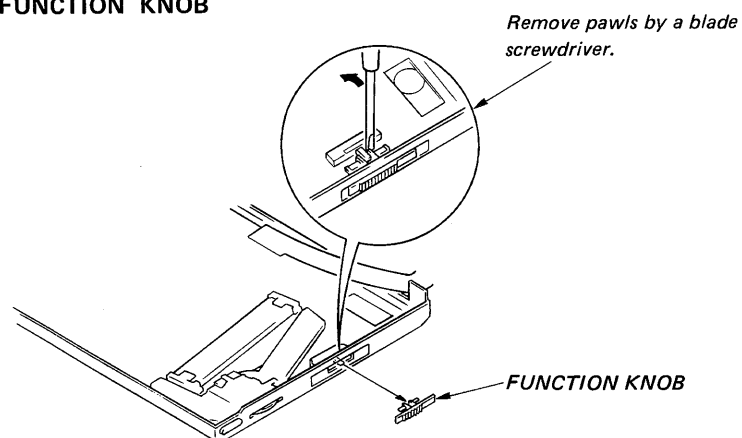
Mounting

-
- 1 Mount the holder section.
 - 2 Mount the tension spring on the holder guide.

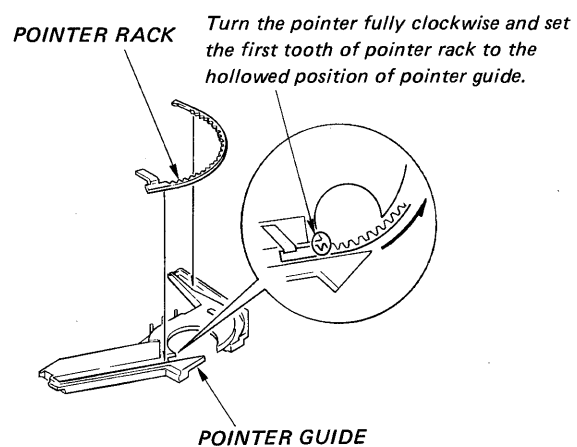
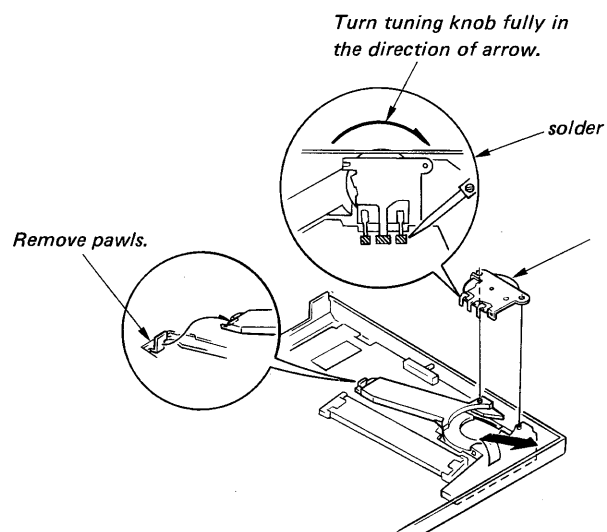
It is easier to install when the tension spring is hooked on the holder guide as illustrated.

TUNER SECTION

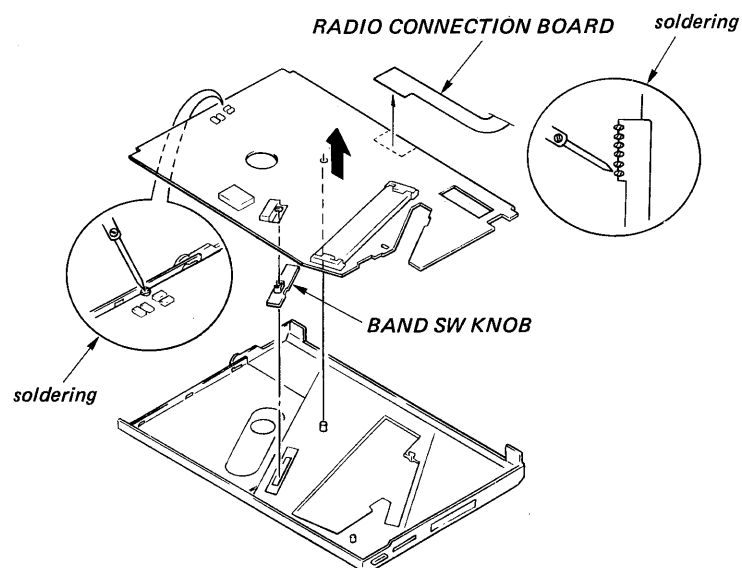
FUNCTION KNOB



POINTER RACK



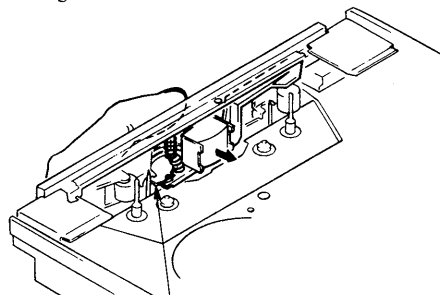
TUNER BOARD



2.2. HOW TO REPLACE HP101 (HEAD)

HP101 (HEAD) can be replaced without removing the holder section. The procedure is as follows.

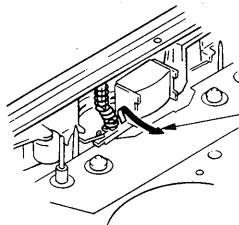
Note: Push HP101 (HEAD) in the direction of the arrow by hand, as shown in the figure.



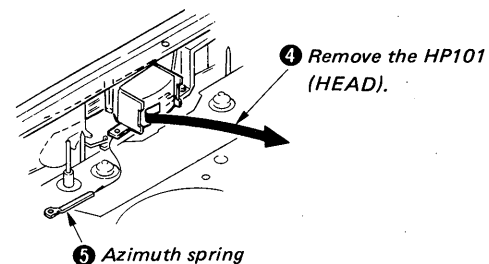
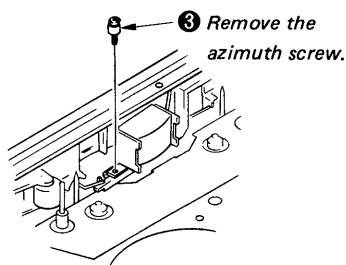
Pinch Spring (N): Be careful not to remove this spring. This spring comes off easily when HP101 is pressed hard. HP101 (HEAD) can be replaced even with the spring off, but the spring must be returned to its original position.

REMOVAL

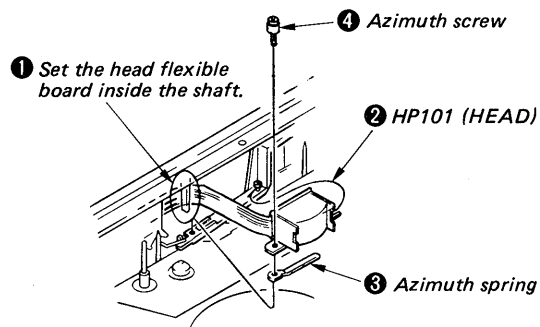
- ① Unsolder the head flexible board from the main board (Side B)



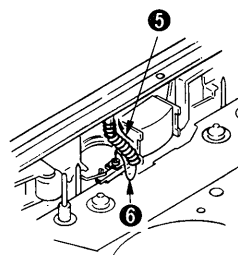
- ② Remove the compression spring.



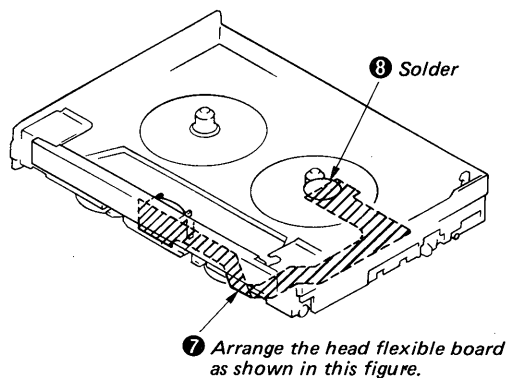
MOUNTING



Note: Handle carefully as the head flexible board is cut easily.



Note: When mounting the compression spring, it is easier if HP101 (HEAD) is not pressed.



SECTION 3 ADJUSTMENTS

MECHANICAL ADJUSTMENTS AND MEASUREMENT

PRECAUTION

- Clean the following parts with a denatured alcohol-moistened swab:

playback head	rubber belts
capstan	idlers
pinch roller	
- Demagnetize the playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	23 – 40 g·cm 0.32 – 0.55 oz·inch
FWD Back Tension		1.5 – 3 g·cm 0.02 – 0.04 oz·inch
REV	CQ-102RB	23 – 40 g·cm 0.32 – 0.55 oz·inch
REV Back Tension		1.5 – 3 g·cm 0.02 – 0.04 oz·inch
FF	CQ-201B	more than 60 g·cm more than 0.83 oz·inch
REW		more than 60 g·cm more than 0.83 oz·inch

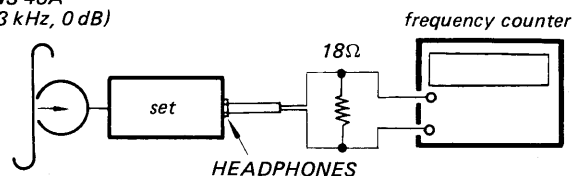
Tape Pulling Force Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g more than 1.76 oz
REV	CQ-403R	more than 50 g more than 1.76 oz

Tape Speed Adjustment

Procedure:

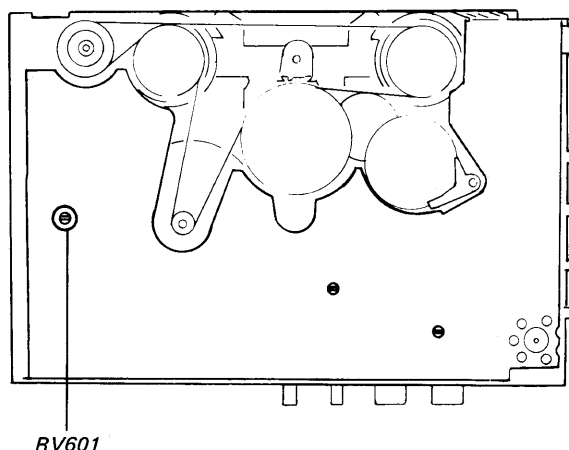
test tape
WS-48A
(3 kHz, 0 dB)



- Play back WS-48A (Tape center portion) in FWD mode.
Adjust the RV601 so that the frequency counter reads 3,000 Hz \pm 10 Hz.
- Play back WS-48A (Tape center portion) in REV mode.
Confirm that the reading of frequency counter is within 1.5% from the reading in step 1.

Adjustment Location:

Main Board – Side B –

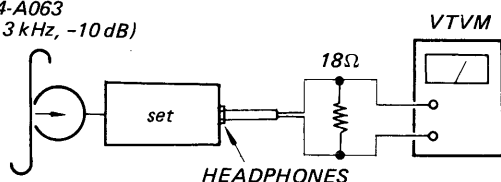


Playback Head Azimuth Adjustment

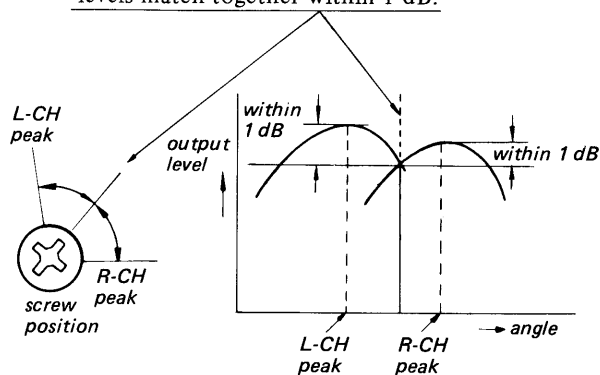
Procedure:

1. Playback mode

test tape
P-4-A063
(6.3 kHz, -10 dB)



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.

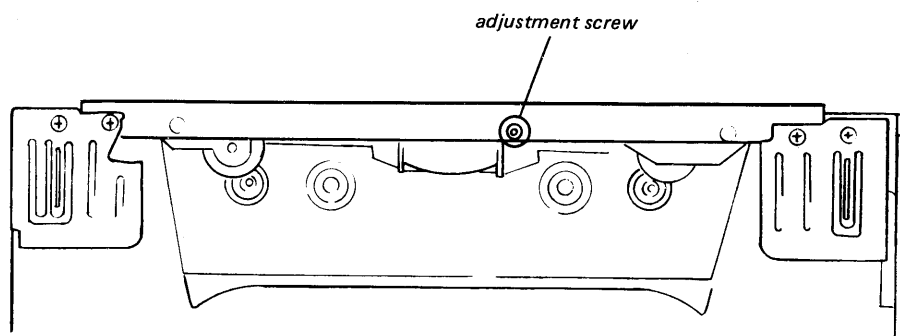


Adjustment should be made in both directions of FWD and REV.

Adjustment screws should be stopped by turning in the clockwise direction.

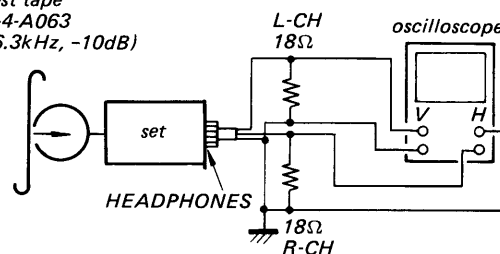
After the adjustment, lock the screws with locking compound.

Adjustment Location:



3. Phase Check

test tape
P-4-A063
(6.3 kHz, -10 dB)



Screen Pattern				
in phase	45°	90°	135°	180°
good			wrong	

Playback Level Adjustment

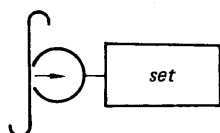
DOLBY NR switch OFF

VOL knob MINIMUM

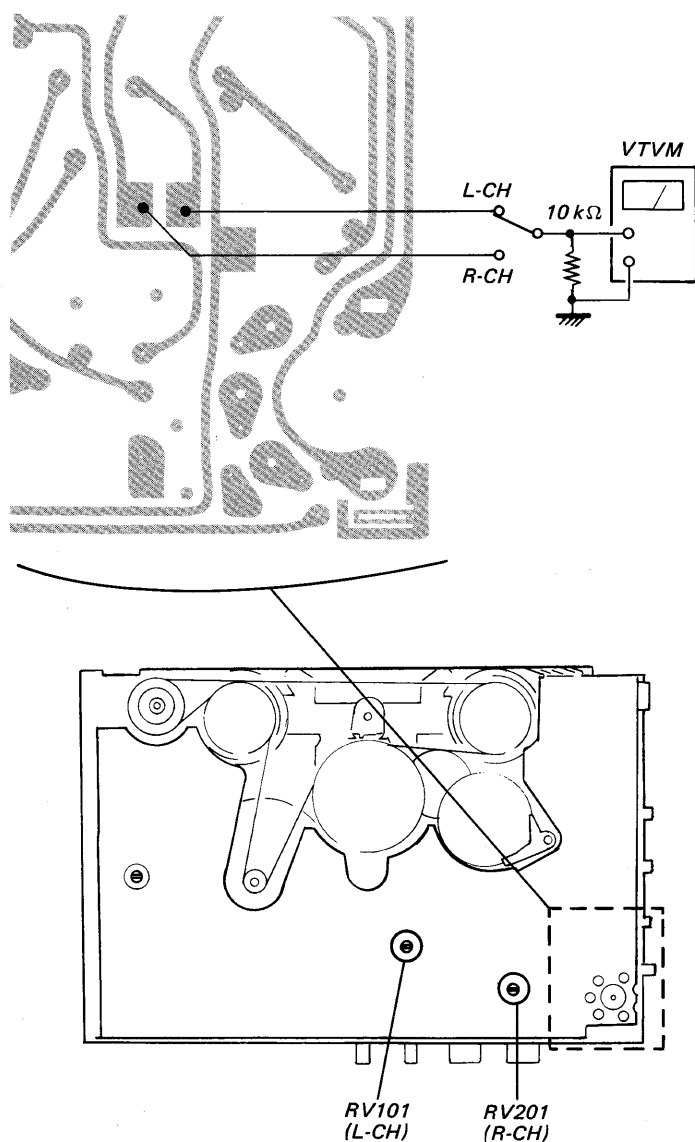
Procedure:

1. Playback mode

test tape
P-4-L300
(315 Hz, 0 dB)



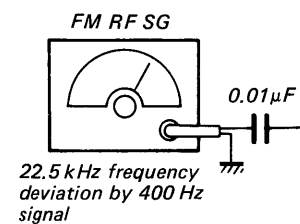
2. Adjust RV101 (L-CH), R201 (R-CH) so that the VTVM reading is -20.5 ± 0.5 dB (0.07 V – 0.077 V).



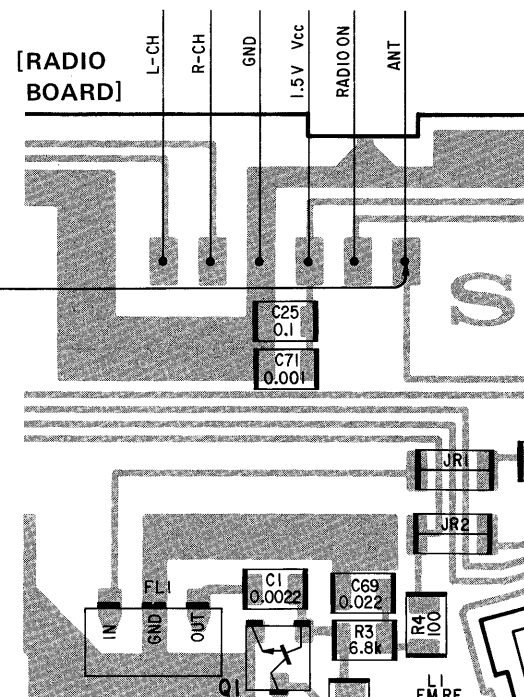
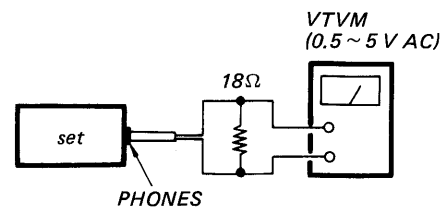
FM Section

Setting:

FUNCTION switch: RADIO, DX
BAND switch: FM

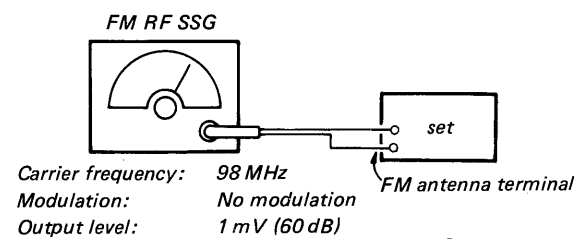


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

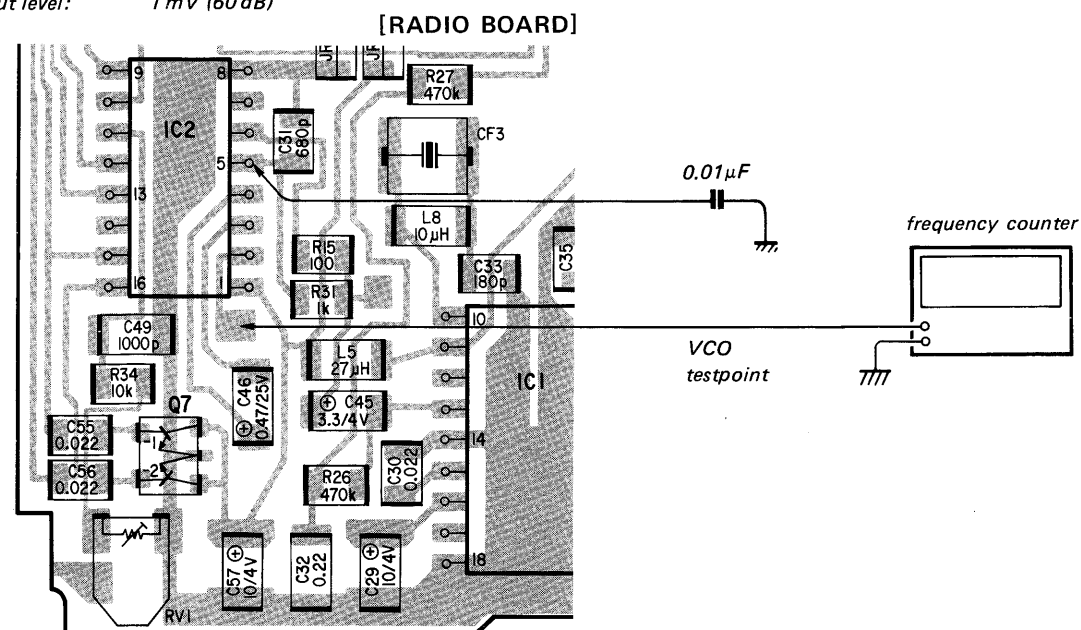


VCO Adjustment

Procedure:

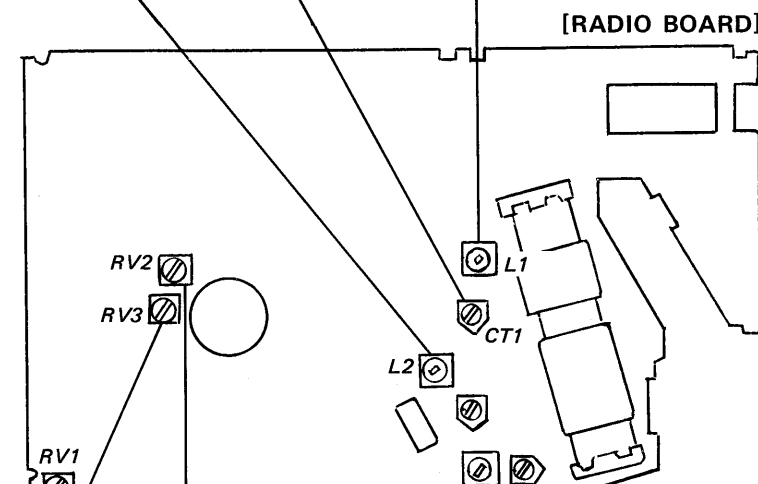


- Tune the set to 98 MHz (FM Board).
- Adjust RV1 for 19 kHz \pm 20 Hz reading on the frequency counter.



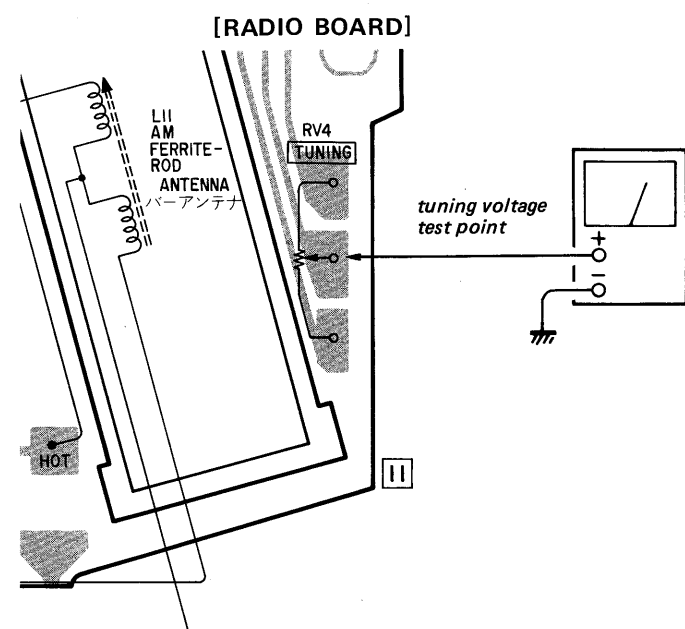
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum VTVM reading.	
86.5 MHz	109.5 MHz
L2	CT1

FM TRACKING ADJUSTMENT	
Adjust for a maximum VTVM reading.	
L1	86.5 MHz



RV3	RV2
VOM 1V	VOM 9V
Minimum receiving frequency	Maximum receiving frequency
TUNING VOLTAGE ADJUSTMENT*	

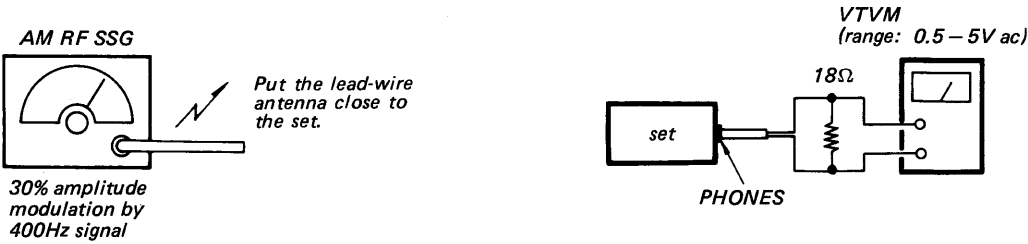
* FM frequency coverage adjustment and the tracking adjustment should be performed after the tuning voltage adjustment.



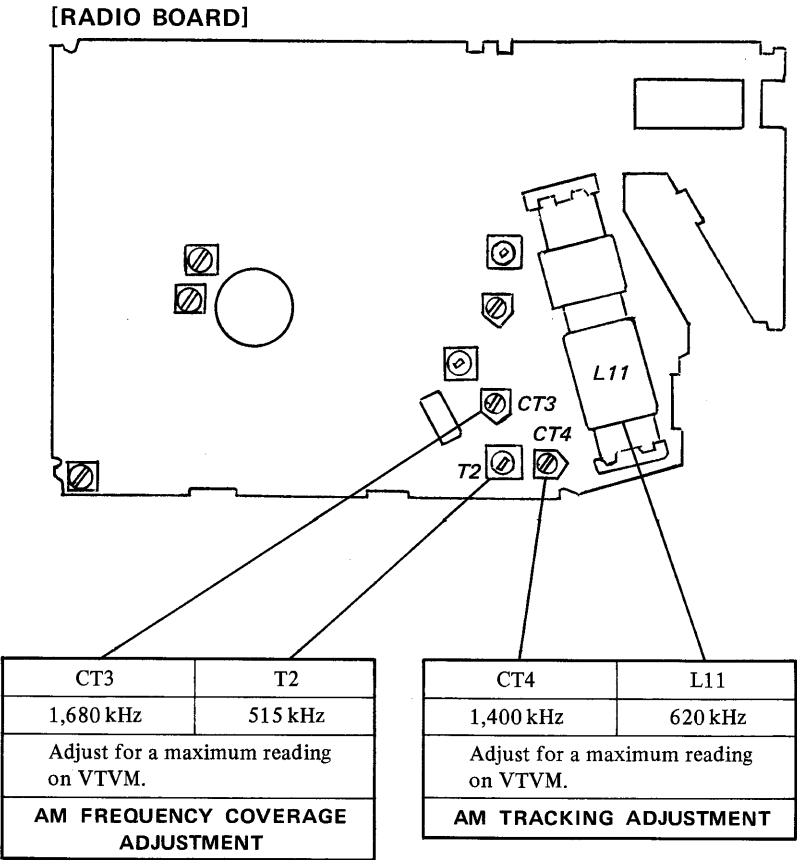
AM Section

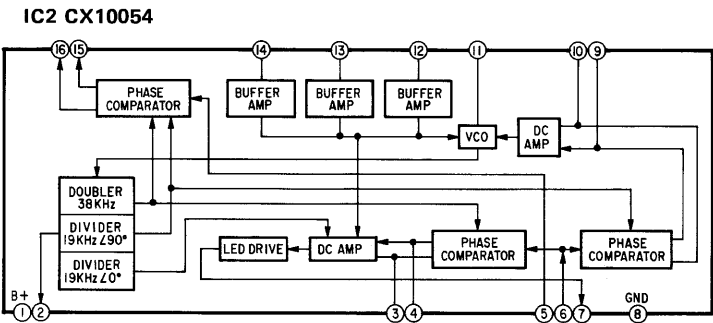
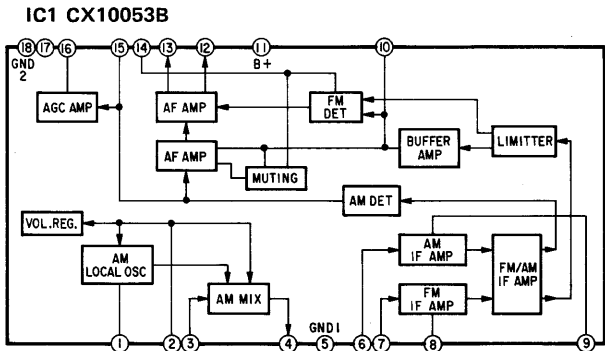
Setting:

FUNCTION SW: RADIO, DX
BAND SW: AM



Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.





Note for SCHEMATIC DIAGRAM (Radio Section):

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : FM signal path.
- : AM signal path.
- ▨ : Playback signal path.
- △ : internal component.
- : B+ bus.
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- (()) : FM
- << >> : AM
- Voltage variations may be noted due to normal production tolerances.
- Power voltage is 1.5V and fed with regulated dc power supply from BATTERY TERMINAL.
- Voltages are dc with respect to ground in STOP mode.
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S1	FUNCTION	FM LOCAL
S2	BAND	FM

Semiconductor Lead Layouts

<p>NJL5141E</p>	<p>TA7739F</p>
<p>DA106K RD3.9M-B1</p>	<p>CX20089A</p>
<p>1SS123</p>	<p>NJM2063AM</p>
<p>GL2PR9</p>	<p>2SC2757 2SA1162 2SB624-BV4 2SC2712 2SD596 DTA114TK DTC114TK 2SA812 2SC1623</p>
<p>CX20123</p>	<p>FMG4 FMS1 TA86E</p>

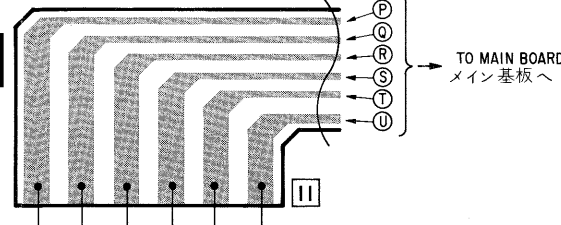
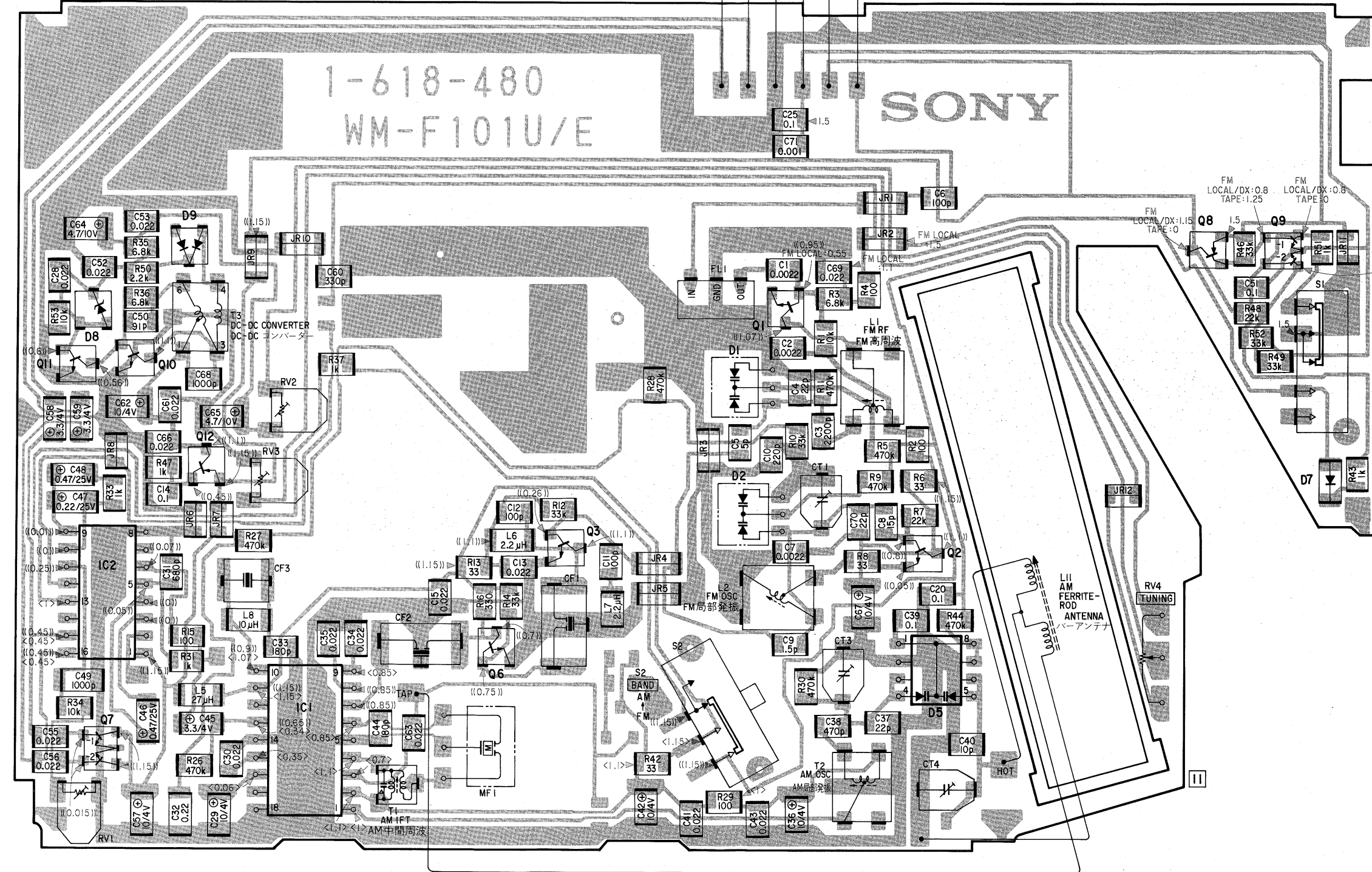
Note for MOUNTING DIAGRAM (Radio Section):

- : parts extracted from the conductor side.
- : indicates side identified with part number.

SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

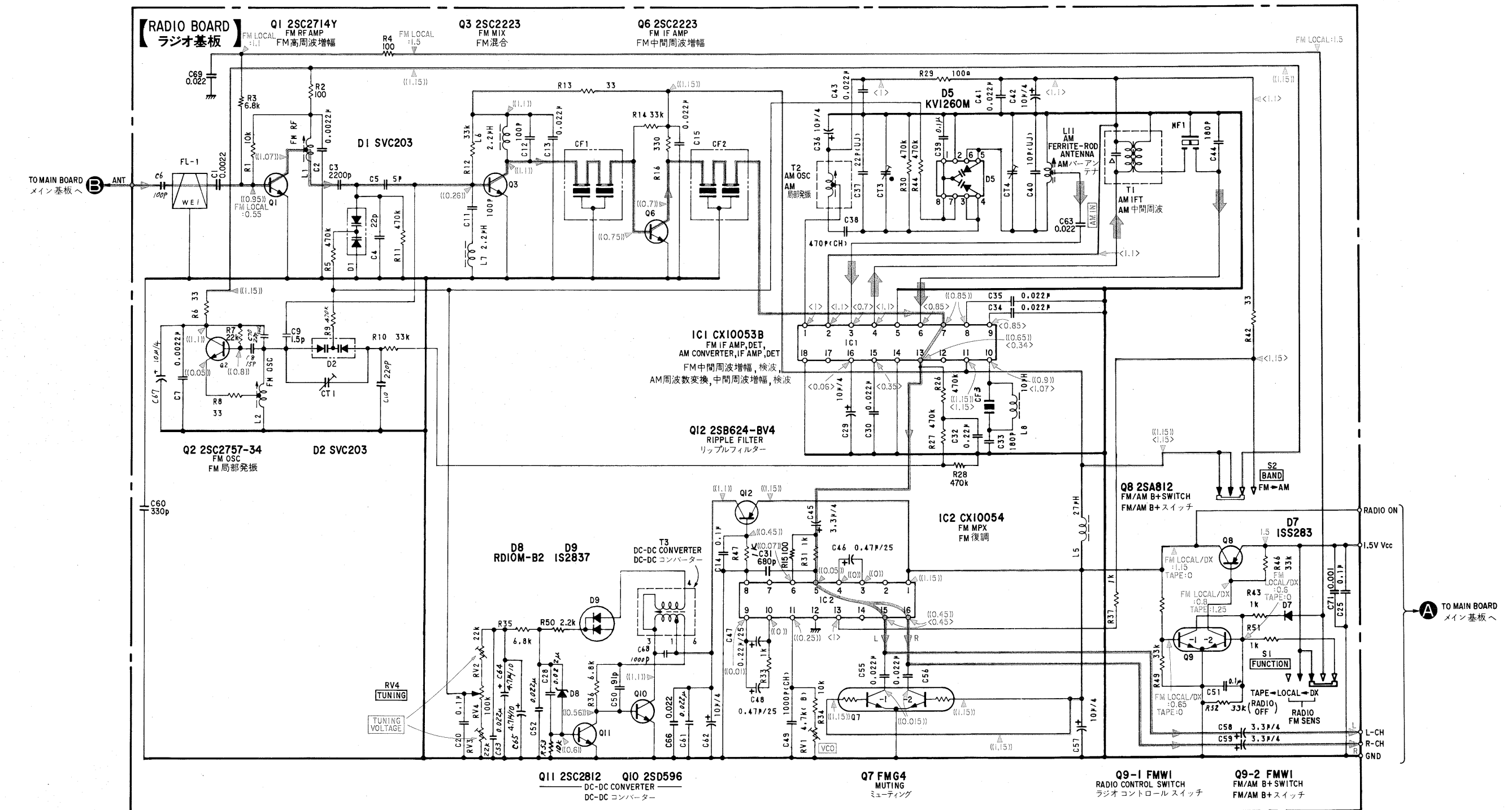
— Radio Section —

See page 18 for Semiconductor Lead Layouts,
IC BLOCK DIAGRAM and Note.【RADIO FLEXIBLE BOARD】
ラジオフレキシ基板【RADIO BOARD】
ラジオ基板S1
FUNCTION
DX
LOCAL
FM SENS
TAPE
(RADIO OFF)

4-2. SCHEMATIC DIAGRAM

— Radio Section —

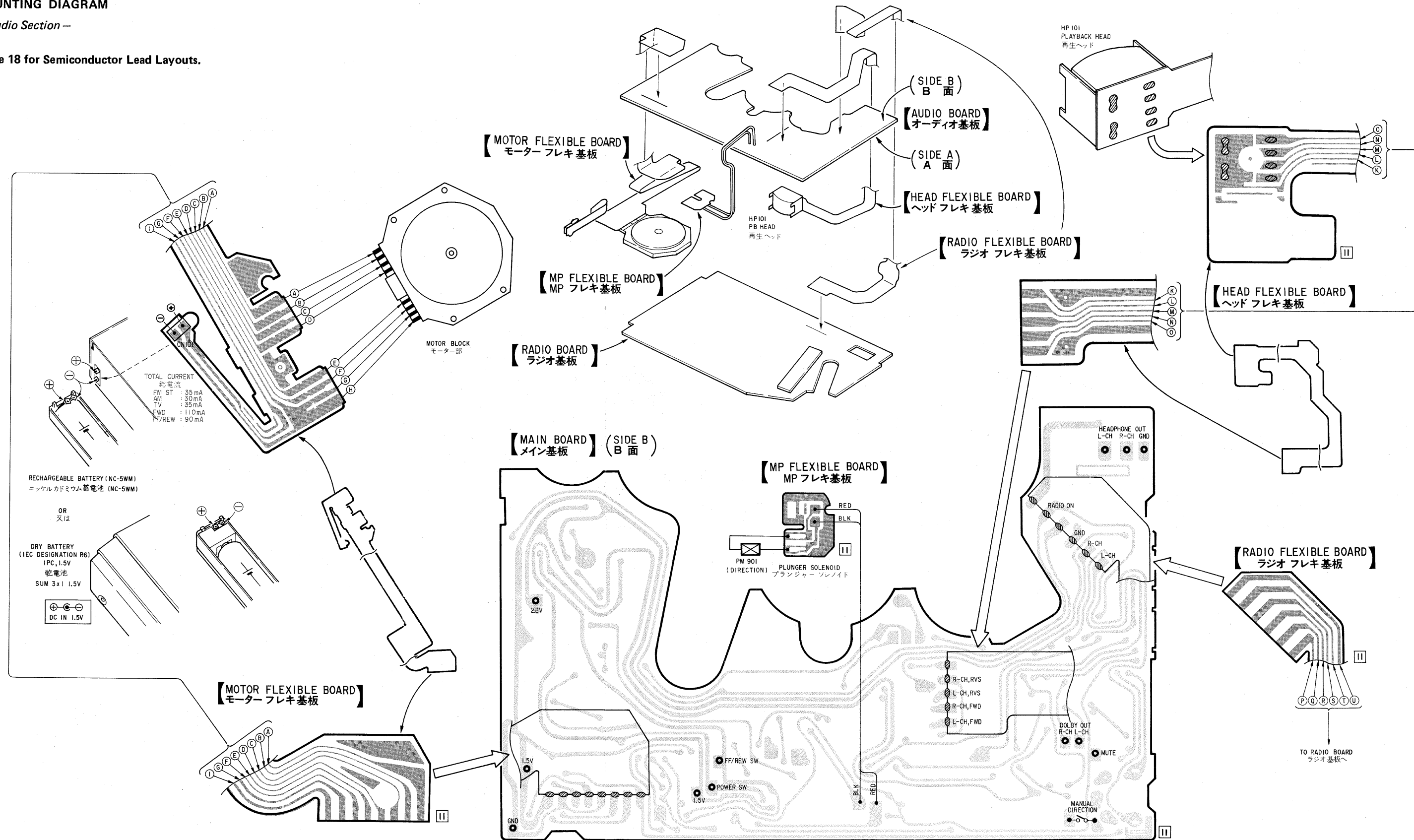
See page 18 for Note.



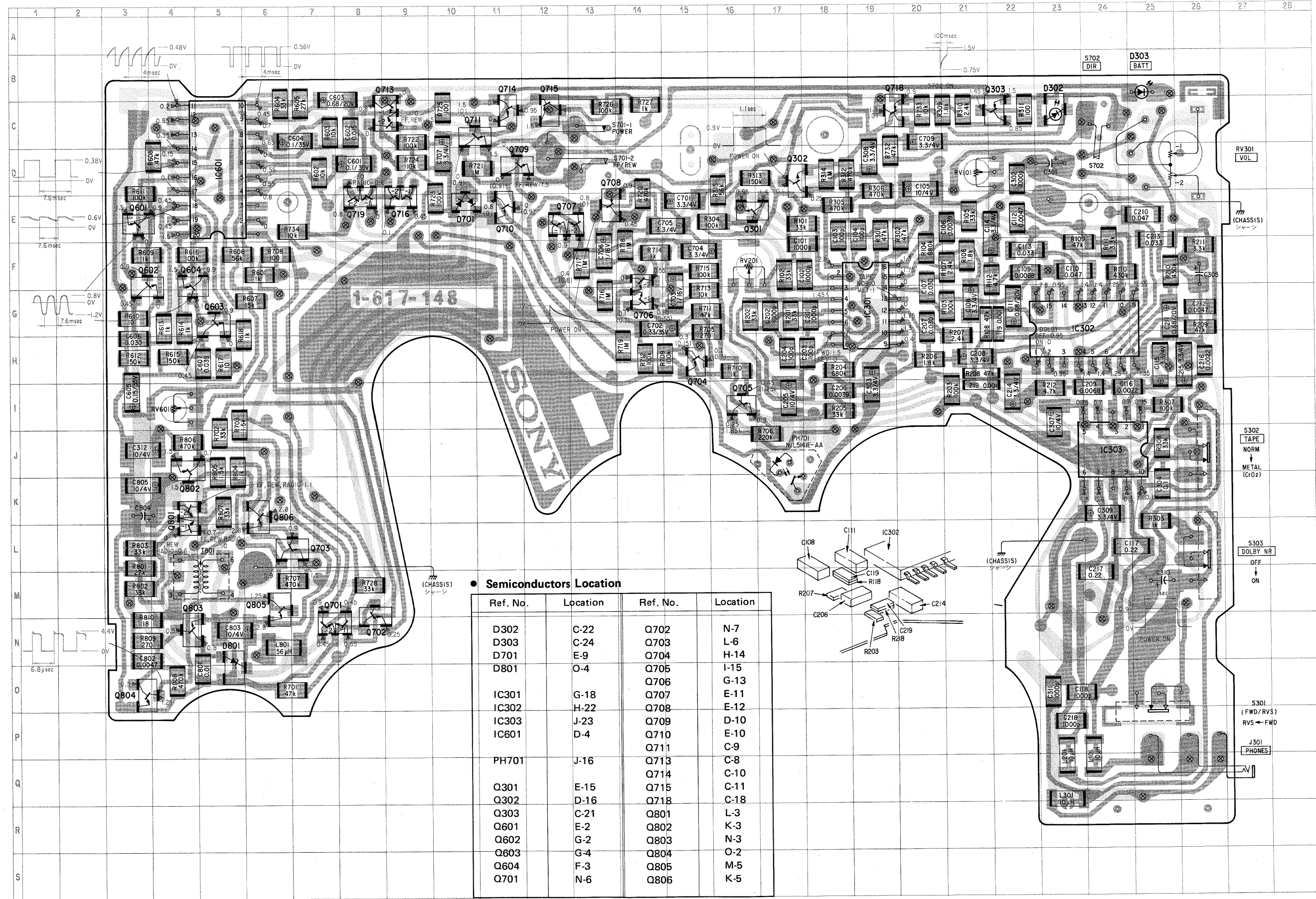
4-3. MOUNTING DIAGRAM

— Audio Section —

See page 18 for Semiconductor Lead Layouts.

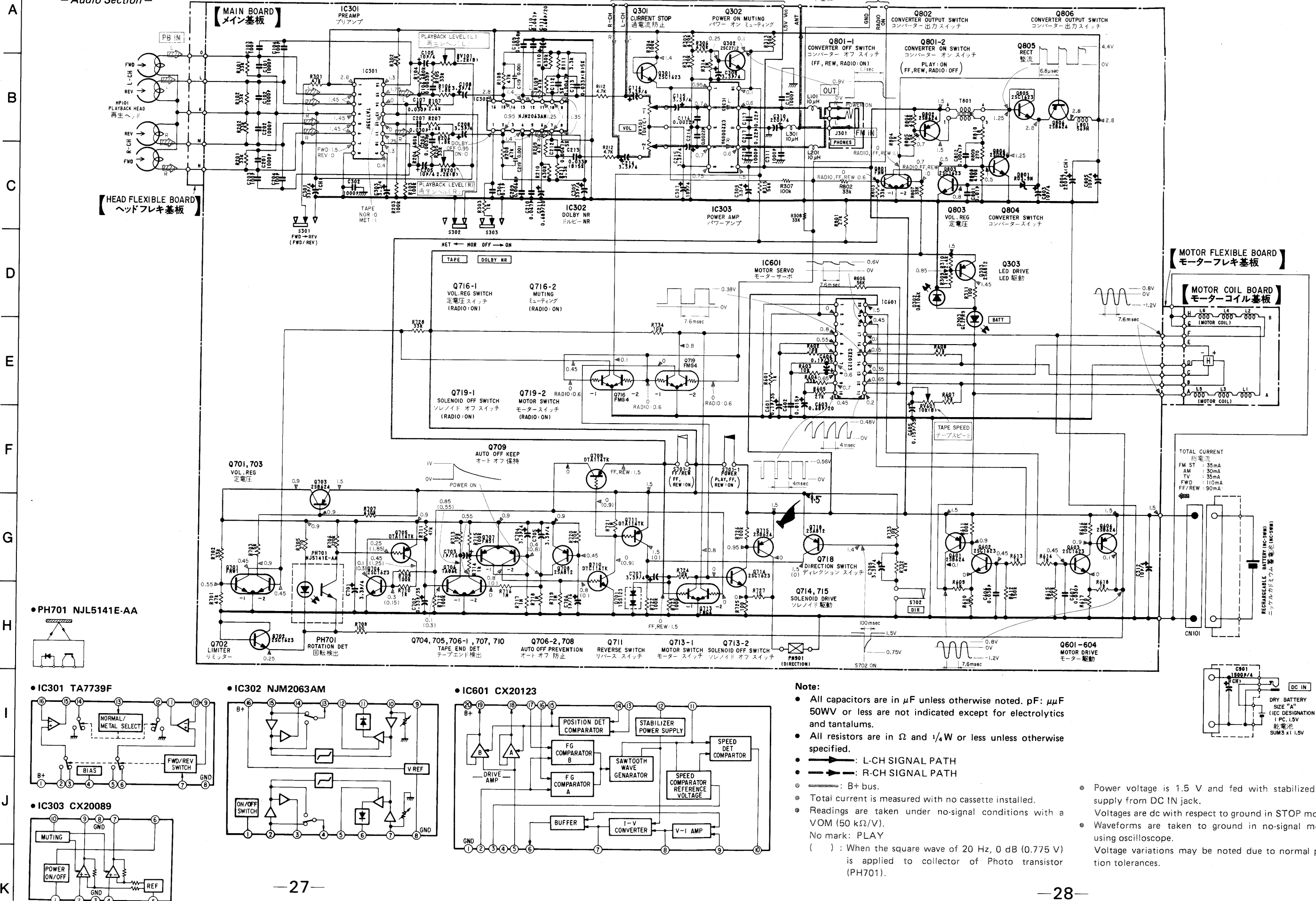


Note:
● : parts extracted from the component side.
⊗ : Through hole.
⊙ : component-side pattern.



4-4. SCHEMATIC DIAGRAM

— Audio Section —



REVISED

WM-F100

SECTION 5 EXPLODED VIEWS AND PARTS LIST

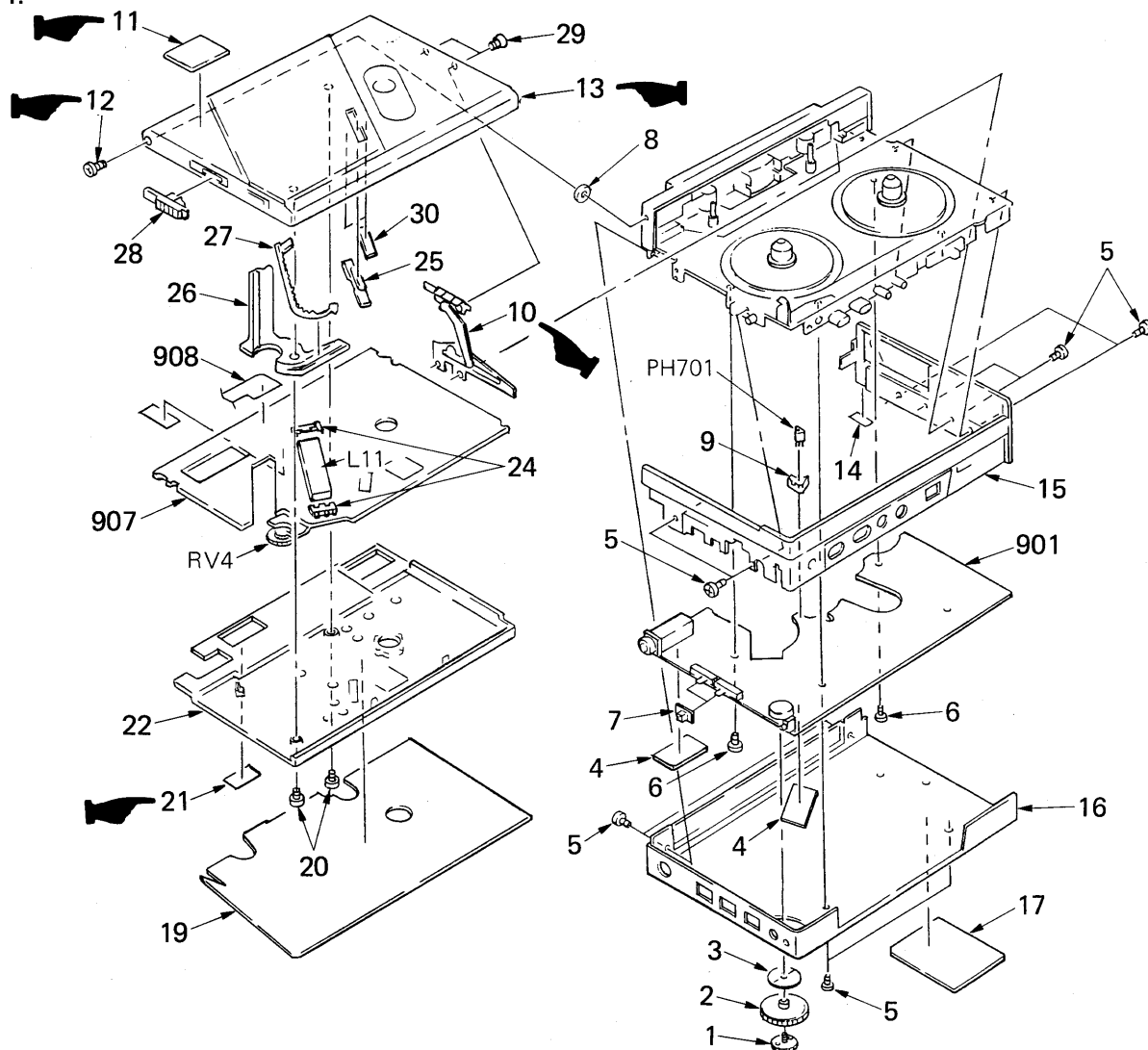
NOTE:

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.

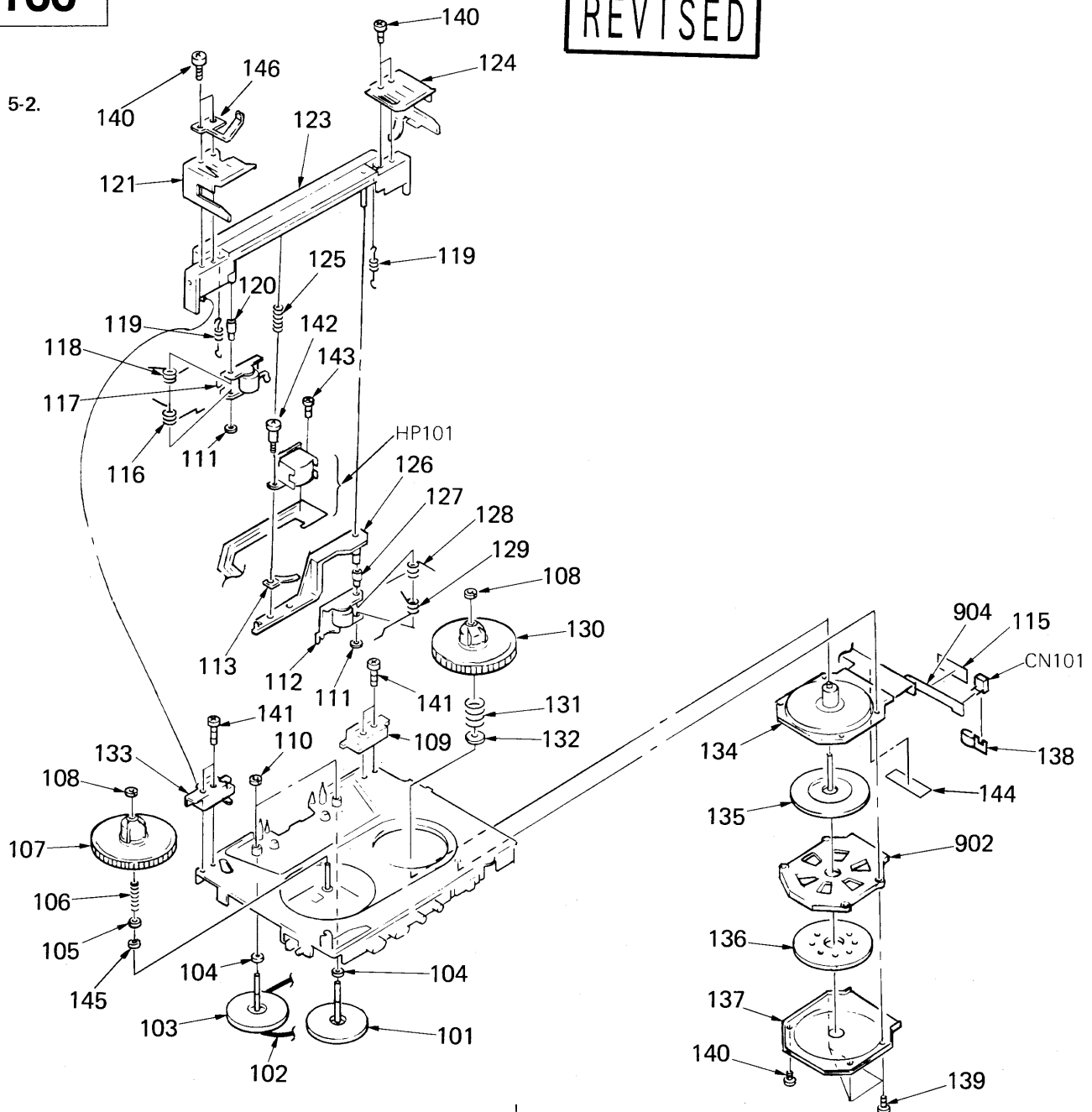
The construction parts of an assembled part are indicated with a collation number in the remark column.

5-1.



No.	Part No.	Description	Remarks
1	3-315-308-00	SCREW, CONTROL	
2	3-329-767-01	KNOB, VOL	
3	3-315-467-00	WASHER, CONTROL	
4	3-831-441-XX	CUSHION	
5	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
6	3-703-816-01	SCREW (M1.4X2.0), SPECIAL HEAD	
7	3-329-762-01	KNOB, SW	
8	3-563-124-11	WASHER, RATTLE ABSORBER	
9	3-329-761-01	ADJUSTOR, REFLECTOR	
10	X-3329-668-1	GUIDE ASSY, ARM	
11	3-703-710-01	STICKER, SONY SYMBOL (12)	
12	3-329-766-01	SCREW (M1.4X2.95), STEP	
13	X-3329-702-1	(SILVER)...PANEL, CASSETTE	
14	X-3329-703-1	(BLACK)...PANEL, CASSETTE	
15	9-911-840-99	SHEET, RUBBER	
	X-3329-658-1	(BLACK)...ORNAMENT, REEL	
	X-3329-660-1	(SILVER)...ORNAMENT, REEL	
16	X-3329-661-1	(SILVER)...PANEL, CONTROL	
	X-3329-662-1	(BLACK)...PANEL, CONTROL	

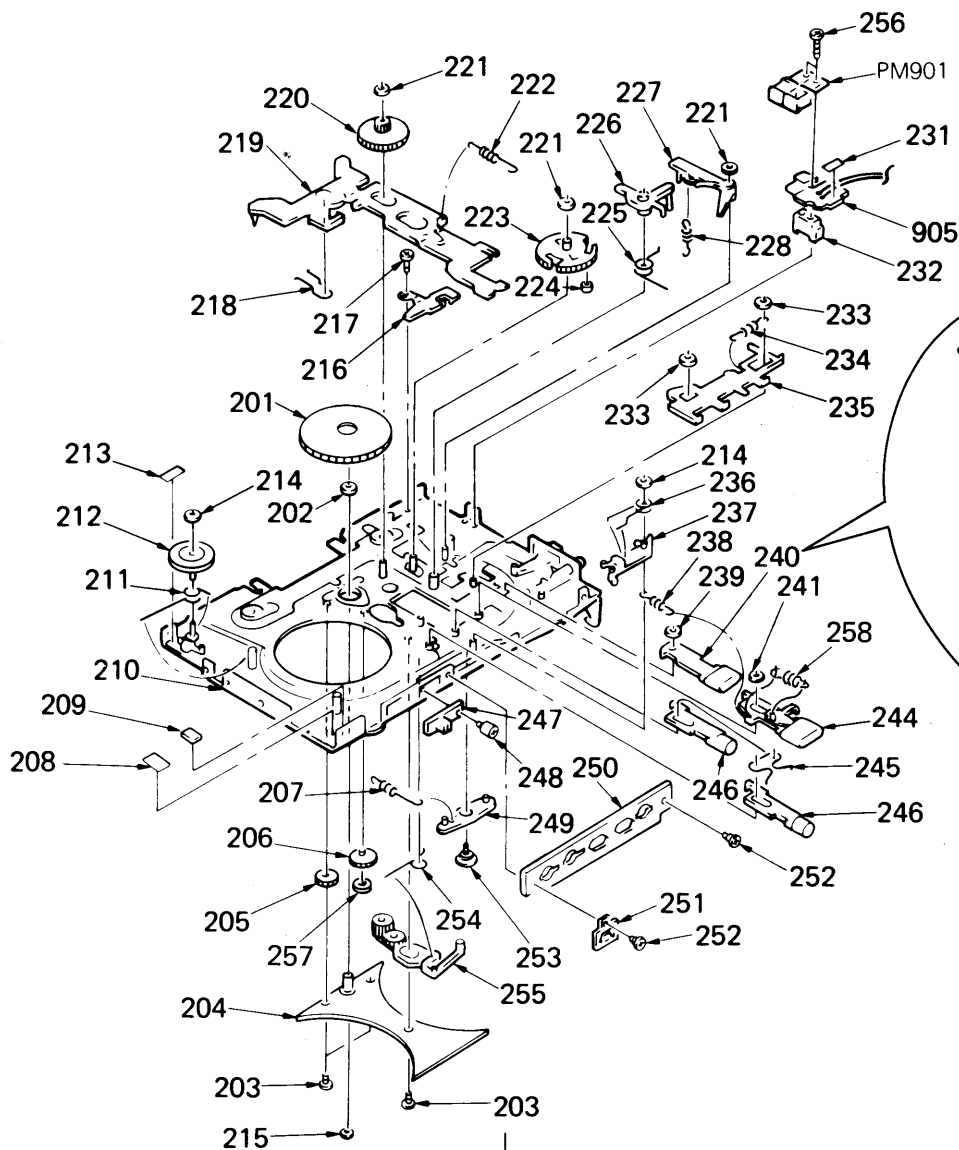
No.	Part No.	Description	Remarks
17	3-331-088-01	(SILVER)...LABEL, MODEL NUMBER	
	3-331-088-11	(BLACK)...LABEL, MODEL NUMBER	
19	3-331-021-01	SHEET (A), BLIND	
20	3-703-816-32	SCREW (M1.4X1.6), SPECIAL HEAD	
21	3-331-022-11	SHEET (B), BLIND	
22	3-329-758-01	PLATE, BLIND, PANEL	
24	3-329-748-01	HOLDER, ANTENNA	
25	3-329-747-01	KNOB, BAND SW	
26	3-329-757-01	GUIDE, POINTER	
27	3-329-753-01	RACK, POINTER	
28	3-329-749-11	KNOB, FUNCTION	
29	7-627-451-07	SCREW, PRECISION *K 1.4X1.6	
30	3-884-241-00	SHEET (C), ADHESIVE	
901	A-3070-154-A	PC BOARD ASSY, AU	
907	A-3089-171-A	PC BOARD ASSY, TUNER	
908	1-617-100-11	PC BOARD, RADIO CONNECTION	
L11	1-402-182-11	ANTENNA, FERRITE-ROD (MW)	
PH701	8-719-751-43	DIODE NJL5141E-AB	



No.	Part No.	Description	Remarks
101	X-3329-622-1	FLYWHEEL ASSY	
102	3-329-695-01	BELT	
103	X-3329-622-1	FLYWHEEL ASSY	
104	3-321-394-21	WASHER	
106	3-331-013-01	SPRING, COMPRESSION	
107	X-3329-624-1	GEAR ASSY, T REEL	
108	3-315-384-11	WASHER, STOPPER	
109	3-329-737-01	GUIDE (LEFT), HOLDER	
110	3-331-007-01	WASHER	
111	3-331-036-01	WASHER (t=0.25)	
	3-331-036-11	WASHER (t=0.19)	
112	X-3329-602-1	PINCH LEVER (R) ASSY	
113	3-329-644-01	SPRING	
115	3-324-558-01	SHEET, INSULATING	
116	3-329-640-01	SPRING (N)	
117	X-3329-601-1	PINCH LEVER (N) ASSY	
118	3-329-642-01	SPRING (N)	
119	3-331-012-01	SPRING (HOLDER), TENSION	
120	3-329-637-01	COLLAR, PINCH LEVER	
121	3-329-714-01	HOLDER (RIGHT), CASSETTE	
123	X-3329-644-1	HOLDER (T) ASSY	
124	3-329-713-01	HOLDER (LEFT), CASSETTE	
125	3-331-038-01	SPRING, COMPRESSION	

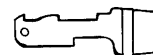
No.	Part No.	Description	Remarks
126	3-329-710-01	LEVER, HEAD	
127	3-331-027-01	COLLAR (R), PINCH LEVER	
128	3-329-643-01	SPRING (R)	
129	3-329-641-01	SPRING (R)	
130	3-329-729-01	GEAR, SUPPLY REEL	
131	3-331-014-01	SPRING, COMPRESSION	
132	3-320-354-01	WASHER	
133	3-329-736-01	GUIDE (RIGHT), HOLDER	
134	X-3329-625-1	CHASSIS ASSY, MOTOR	
135	A-3133-236-A	WHEEL BLOCK ASSY, MOTOR	
136	3-329-649-01	PLATE, HYSTERESIS	
137	3-329-648-01	PLATE, SHIELD, MOTOR	
138	3-329-774-01	SPRING	
139	3-703-816-91	SCREW (M1.4X2.8), SPECIAL HEAD	
140	7-627-551-98	PRECISION SCREW +P 1.4X2.2	
141	7-627-552-48	SCREW, PRECISION +P 1.7X4	
142	3-331-082-01	SCREW, HD	
143	3-331-076-01	SCREW, AZIMUTH	
144	3-703-929-01	SHEET, INSULATING	
145	3-315-415-21	WASHER (1.5-2.3)	
146	3-331-059-02	SPRING	
CN101	1-506-573-12	CONNECTOR 2P	
HP101	1-543-310-11	HEAD, MAGNETIC (PLAYBACK)	

5-3.

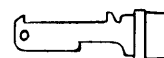


• There are two kinds of play levers.

FORMER
X-3329-631-1



NEW
X-3329-679-1



No.	Part No.	Description	Remarks
201	X-3329-628-1	PULLEY COMPLETE ASSY, MIDWAY	
202	3-321-394-21	WASHER	
203	3-331-047-01	SCREW (M1.4X1.4), SPECIAL HEAD	
204	X-3329-618-1	COVER ASSY, REEL	
205	3-329-689-01	GEAR (B), T	
206	3-329-688-01	GEAR (A), T	
207	3-331-017-01	SPRING, TENSION	
208	3-327-119-01	SHEET (B), INSULATING	
209	9-911-840-XX	CUSHION (B)	
210	X-3329-635-2	CHASSIS COMPLETE ASSY	
211	3-329-701-01	SPRING	
212	3-329-686-01	WHEEL, REVERSE	
213	9-911-863-XX	SPACER	
214	3-331-036-01	WASHER (t=0.25)	
	3-331-036-11	WASHER (t=0.19)	
215	3-331-007-01	WASHER (t=0.19)	
216	3-329-685-01	SPRING (A)	
217	3-331-008-01	SCREW (M1.4X1.1)(1), PRECISION	
218	3-329-698-01	SPRING (B)	
219	X-3329-616-1	LEVER (A) ASSY, DRIVING	
220	3-329-687-01	GEAR, DRIVING	
221	3-315-384-11	WASHER, STOPPER	
222	3-331-018-01	SPRING, TENSION	
223	3-329-730-01	GEAR, CAM	
224	3-329-693-01	COLLAR, CAM GEAR	
225	3-329-700-01	SPRING	
226	3-329-733-01	LEVER (A), SHUT-OFF	
227	X-3329-615-1	LEVER ASSY, TRIGGER	
228	3-331-011-01	SPRING (TRIGGER LEVER), TENSION	
231	3-703-929-01	SPACER, SWITCH	

No.	Part No.	Description	Remarks
232	*3-331-041-01	BRACKET, P	
233	3-578-224-00	WASHER	
234	3-331-009-01	SPRING (LOCK LEVER), TENSION	
235	3-329-731-01	LEVER, LOCK	
236	3-329-702-01	SPRING	
237	3-329-692-01	LEVER, SW	
238	3-331-010-01	SPRING (STOP LEVER), TENSION	
239	3-578-242-21	WASHER	
240	X-3329-631-1	(FORMER)...LEVER ASSY, PLAY	
	X-3329-679-1	(NEW).....LEVER ASSY, PLAY	
241	3-578-224-11	WASHER	
242	3-315-414-00	WASHER	
244	X-3329-678-1	LEVER ASSY, STOP	
245	3-331-016-01	SPRING	
246	X-3329-696-1	LEVER (A) ASSY, F.R	
247	3-329-769-01	KNOB, SAFETY LOCK	
248	3-329-697-01	SCREW, STEP, PRECISION	
249	X-3329-617-1	LEVER (B) ASSY, DRIVING	
250	*3-329-734-01	HOLDER, BUTTON	
251	3-331-043-01	SPRING	
252	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
253	3-331-056-01	SHAFT, DRIVING LEVER (B)	
254	3-329-699-01	SPRING	
255	X-3329-626-1	LEVER (B) ASSY, F.R	
256	7-627-551-37	SCREW, PRECISION +P 1.4X5	
257	3-331-081-01	WASHER	
258	3-331-111-01	SPRING, TENSION (PANEL LOCK LEVER A)	
905	1-617-019-11	PC BOARD, MP FLEXIBLE	
PM901	1-454-406-11	SOLENOID, PLUNGER (DIRECTION)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- 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:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

• MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA....: μA..., UPA....: μPA..., UPC....: μPC,

UPD....: μPD...

ELECTRICAL PARTS						ELECTRICAL PARTS					
Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901	A-3070-154-A	PC BOARD ASSY. AU				C50	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
902	1-462-230-11	COIL, MOTOR (STATOR)				C51	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
904	1-617-017-11	PC BOARD, MOTOR CONNECTION				C52	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
905	1-617-019-11	PC BOARD, MP FLEXIBLE				C53	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
907	A-3089-171-A	PC BOARD ASSY, TUNER				C55	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
908	1-617-100-11	PC BOARD, RADIO CONNECTION				C56	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
C1	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V		C57	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C2	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V		C58	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C3	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V		C59	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C4	1-163-101-00	CERAMIC CHIP 22PF	5%	50V		C60	1-163-129-00	CERAMIC CHIP 330PF	10%	50V	
C5	1-163-088-00	CERAMIC CHIP 5PF	0.25PF	50V		C61	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
C6	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		C62	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C7	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V		C63	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
C8	1-163-097-00	CERAMIC CHIP 15PF	5%	50V		C64	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C9	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF	50V		C65	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C10	1-163-125-00	CERAMIC CHIP 220PF	5%	50V		C66	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V	
C11	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		C67	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C12	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		C68	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C13	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C69	1-163-037-00	CERAMIC CHIP 0.022MF			
C14	1-163-038-00	CERAMIC CHIP 0.1MF		25V		C70	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C15	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C71	1-163-037-00	CERAMIC CHIP 0.001MF	10%	50V	
C20	1-163-038-00	CERAMIC CHIP 0.1MF		25V		C101	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C25	1-163-038-00	CERAMIC CHIP 0.1MF		25V		C102	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C28	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C103	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C29	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		C104	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C30	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C105	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C31	1-163-137-00	CERAMIC CHIP 680PF	10%	50V		C106	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V	
C32	1-163-081-00	CERAMIC CHIP 0.22MF		25V		C107	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V	
C33	1-163-257-00	CERAMIC CHIP 180PF	5%	50V		C108	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C34	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C109	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V	
C35	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C110	1-163-075-00	CERAMIC CHIP 0.047MF	10%	25V	
C36	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		C111	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V	
C37	1-163-101-00	CERAMIC CHIP 22PF	5%	50V		C112	1-163-017-00	CERAMIC CHIP 0.0047MF	5%	50V	
C38	1-163-267-00	CERAMIC CHIP 470PF	5%	50V		C113	1-163-074-00	CERAMIC CHIP 0.033MF	5%	25V	
C39	1-163-038-00	CERAMIC CHIP 0.1MF		25V		C114	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C40	1-163-093-00	CERAMIC CHIP 10PF	5%	50V		C115	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C41	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C116	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C42	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		C117	1-163-081-00	CERAMIC CHIP 0.22MF		25V	
C43	1-163-037-00	CERAMIC CHIP 0.022MF	10%	25V		C118	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C44	1-163-257-00	CERAMIC CHIP 180PF	5%	50V		C119	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C45	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		C201	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C46	1-135-083-00	TANTAL. CHIP 0.47MF	10%	25V		C202	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C47	1-135-072-21	TANTAL. CHIP 0.22MF	10%	35V		C203	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C48	1-135-083-00	TANTAL. CHIP 0.47MF	10%	25V		C204	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C49	1-163-335-11	CERAMIC CHIP 0.001MF	5%	50V		C205	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	

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ELECTRICAL PARTS

Ref.No.	Part No.	Description		
C206	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C207	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V
C208	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C209	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V
C210	1-163-075-00	CERAMIC CHIP 0.047MF	10%	25V
C211	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V
C212	1-163-017-00	CERAMIC CHIP 0.0047MF	5%	50V
C213	1-163-074-00	CERAMIC CHIP 0.033MF	5%	25V
C214	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C215	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C216	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V
C217	1-163-081-00	CERAMIC CHIP 0.22MF	10%	25V
C218	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C219	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C301	1-124-431-00	ELECT 33MF	20%	4V
C302	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C303	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C304	1-163-038-00	CERAMIC CHIP 0.1MF	10%	25V
C305	1-124-431-00	ELECT 33MF	20%	4V
C307	1-135-104-00	TANTAL. CHIP 10MF	10%	4V
C308	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C309	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C310	1-124-413-00	ELECT 220MF	20%	4V
C311	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C312	1-135-104-00	TANTAL. CHIP 10MF	10%	4V
C601	1-135-070-00	TANTAL. CHIP 0.1MF	10%	35V
C602	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V
C603	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V
C604	1-135-070-00	TANTAL. CHIP 0.1MF	10%	35V
C605	1-135-071-21	TANTAL. CHIP 0.15MF	10%	35V
C606	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V
C607	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V
C701	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C702	1-135-073-00	TANTAL. CHIP 0.33MF	10%	35V
C703	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C704	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C705	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C706	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C707	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C709	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C801	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C802	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C803	1-135-104-00	TANTAL. CHIP 10MF	10%	4V
C804	1-124-413-00	ELECT 220MF	20%	4V
C805	1-135-104-00	TANTAL. CHIP 10MF	10%	4V
CF1	1-567-338-65	FILTER, CERAMIC		
CF2	1-567-338-65	FILTER, CERAMIC		
CF3	1-567-338-65	FILTER, CERAMIC		
CN101	1-506-573-12	CONNECTOR 2P		
CT1	1-141-333-11	CAP. VAR. TRIMMER		
CT3	1-141-333-11	CAP. VAR. TRIMMER		
CT4	1-141-333-11	CAP. VAR. TRIMMER		
D1	8-719-908-57	DIODE SVC203		
D2	8-719-908-57	DIODE SVC203		
D5	8-719-928-03	DIODE KV1260M		
D7	8-719-118-21	DIODE 1SS283		

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D8	8-719-106-53	DIODE RD10MB2
D9	8-719-928-03	DIODE 1S2837
D302	8-719-908-30	DIODE DA106K
D303	1-807-305-11	DIODE GL2PR9 (LED)
D701	8-719-101-23	DIODE 1SS123
D801	8-719-105-58	DIODE RD3.9M-B2
FL1	1-235-279-00	FILTER, BAND PASS
HP101	1-543-310-11	HEAD, MAGNETIC (PLAYBACK)
IC1	8-759-923-96	IC CX10053B
IC2	8-759-910-53	IC CX10054
IC301	8-759-203-85	IC TA7739F
IC302	8-759-701-07	IC NJM2063AM
IC303	8-759-602-12	IC CX20089A
IC601	8-752-012-32	IC CX20123
J301	1-562-974-11	JACK (PHONES)
L1	1-459-641-11	COIL (WITH CORE)
L2	1-459-642-11	COIL (WITH CORE)
L5	1-410-209-51	INDUCTOR CHIP 27UH
L6	1-410-196-11	INDUCTOR CHIP 2.2UH
L7	1-410-196-11	INDUCTOR CHIP 2.2UH
L8	1-410-204-41	INDUCTOR CHIP 10UH
L11	1-402-182-11	ANTENNA, FERRITE-ROD (MW)
L101	1-410-204-41	INDUCTOR CHIP 10UH
L201	1-410-204-41	INDUCTOR CHIP 10UH
L301	1-410-204-41	INDUCTOR CHIP 10UH
L801	1-410-213-51	INDUCTOR CHIP 56UH
MF1	1-527-383-00	FILTER, MECHANICAL
PH701	8-719-751-43	DIODE NJL5141E-AB
PM901	1-454-406-11	SOLENOID, PLUNGER (DIRECTION)
Q1	8-729-200-87	TRANSISTOR 2SC2714Y
Q2	8-729-175-73	TRANSISTOR 2SC2757
Q3	8-729-102-06	TRANSISTOR 2SC2223
Q6	8-729-102-06	TRANSISTOR 2SC2223
Q7	8-729-902-93	TRANSISTOR FMG4
Q8	8-729-100-76	TRANSISTOR 2SA812-T2M6
Q9	8-729-903-10	TRANSISTOR FMW1
Q10	8-729-903-10	TRANSISTOR 2SD596
Q11	8-729-178-62	TRANSISTOR 2SC2812L6
Q12	8-729-162-44	TRANSISTOR 2SB624BV4
Q301	8-729-271-23	TRANSISTOR 2SC712
Q302	8-729-271-23	TRANSISTOR 2SC712
Q303	8-729-100-76	TRANSISTOR 2SA812-T2M6
Q601	8-729-162-44	TRANSISTOR 2SB624BV4
Q602	8-729-271-22	TRANSISTOR 2SC2712G
Q603	8-729-271-22	TRANSISTOR 2SC2712G
Q604	8-729-162-44	TRANSISTOR 2SB624BV4
Q701	8-729-903-10	TRANSISTOR FMW1
Q702	8-729-271-23	TRANSISTOR 2SC2712
Q703	8-729-162-44	TRANSISTOR 2SB624BV4
Q704	8-729-271-22	TRANSISTOR 2SC2712G
Q705	8-729-900-51	TRANSISTOR DTA114TK
Q706	8-729-903-10	TRANSISTOR FMW1
Q707	8-729-902-96	TRANSISTOR FMS1

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q708	8-729-271-23	TRANSISTOR 2SC2712
Q709	8-729-900-51	TRANSISTOR DTA114TK
Q710	8-729-900-99	TRANSISTOR DTC114TK
Q711	8-729-900-51	TRANSISTOR DTA114TK
Q713	8-729-902-93	TRANSISTOR FMG4
Q714	8-729-271-22	TRANSISTOR 2SC2712G
Q715	8-729-162-44	TRANSISTOR 2SB624BV4
Q716	8-729-902-93	TRANSISTOR FMG4
Q718	8-729-271-23	TRANSISTOR 2SC2712
Q719	8-729-902-93	TRANSISTOR FMG4
Q801	8-729-903-10	TRANSISTOR FMW1
Q802	8-729-162-44	TRANSISTOR 2SB624BV4
Q803	8-729-271-22	TRANSISTOR 2SC2712G
Q804	8-729-159-64	TRANSISTOR 2SD596
Q805	8-729-271-23	TRANSISTOR 2SC2712
Q806	8-729-162-44	TRANSISTOR 2SB624BV4
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W
R2	1-216-025-00	METAL CHIP 100 5% 1/10W
R3	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R4	1-216-025-00	METAL CHIP 100 5% 1/10W
R5	1-216-113-00	METAL CHIP 470K 5% 1/10W
R6	1-216-013-00	METAL CHIP 33 5% 1/10W
R7	1-216-081-00	METAL CHIP 22K 5% 1/10W
R8	1-216-013-00	METAL CHIP 33 5% 1/10W
R9	1-216-113-00	METAL CHIP 470K 5% 1/10W
R10	1-216-085-00	METAL CHIP 33K 5% 1/10W
R11	1-216-113-00	METAL CHIP 470K 5% 1/10W
R12	1-216-085-00	METAL CHIP 33K 5% 1/10W
R13	1-216-013-00	METAL CHIP 33 5% 1/10W
R14	1-216-085-00	METAL CHIP 33K 5% 1/10W
R15	1-216-025-00	METAL CHIP 100 5% 1/10W
R16	1-216-037-00	METAL CHIP 330 5% 1/10W
R26	1-216-113-00	METAL CHIP 470K 5% 1/10W
R27	1-216-113-00	METAL CHIP 470K 5% 1/10W
R28	1-216-113-00	METAL CHIP 470K 5% 1/10W
R29	1-216-025-00	METAL CHIP 100 5% 1/10W
R30	1-216-113-00	METAL CHIP 470K 5% 1/10W
R31	1-216-049-00	METAL CHIP 1K 5% 1/10W
R33	1-216-049-00	METAL CHIP 1K 5% 1/10W
R34	1-216-073-00	METAL CHIP 10K 5% 1/10W
R35	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R36	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R37	1-216-049-00	METAL CHIP 1K 5% 1/10W
R42	1-216-013-00	METAL CHIP 33 5% 1/10W
R43	1-216-049-00	METAL CHIP 1K 5% 1/10W
R44	1-216-113-00	METAL CHIP 470K 5% 1/10W
R46	1-216-085-00	METAL CHIP 33K 5% 1/10W
R47	1-216-049-00	METAL CHIP 1K 5% 1/10W
R48	1-216-081-00	METAL CHIP 22K 5% 1/10W
R49	1-216-085-00	METAL CHIP 33K 5% 1/10W
R50	1-216-049-00	METAL CHIP 1K 5% 1/10W
R51	1-216-049-00	METAL CHIP 1K 5% 1/10W
R52	1-216-085-00	METAL CHIP 33K 5% 1/10W
R53	1-216-073-00	METAL CHIP 10K 5% 1/10W
R101	1-216-085-00	METAL CHIP 33K 5% 1/10W
R102	1-216-085-00	METAL CHIP 33K 5% 1/10W
R103	1-216-097-00	METAL CHIP 100K 5% 1/10W
R104	1-216-117-00	METAL CHIP 680K 5% 1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R105	1-216-085-00	METAL CHIP 33K 5% 1/10W
R106	1-216-055-00	METAL CHIP 1.8K 5% 1/10W
R107	1-216-058-00	METAL CHIP 2.4K 5% 1/10W
R108	1-216-089-00	METAL CHIP 47K 5% 1/10W
R109	1-216-089-00	METAL CHIP 47K 5% 1/10W
R110	1-216-112-00	METAL CHIP 430K 5% 1/10W
R111	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R112	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R201	1-216-085-00	METAL CHIP 33K 5% 1/10W
R202	1-216-085-00	METAL CHIP 33K 5% 1/10W
R203	1-216-097-00	METAL CHIP 100K 5% 1/10W
R204	1-216-117-00	METAL CHIP 680K 5% 1/10W
R205	1-216-085-00	METAL CHIP 33K 5% 1/10W
R206	1-216-055-00	METAL CHIP 1.8K 5% 1/10W
R207	1-216-058-00	METAL CHIP 2.4K 5% 1/10W
R208	1-216-089-00	METAL CHIP 47K 5% 1/10W
R209	1-216-089-00	METAL CHIP 47K 5% 1/10W
R210	1-216-112-00	METAL CHIP 430K 5% 1/10W
R211	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R212	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R301	1-216-089-00	METAL CHIP 47K 5% 1/10W
R302	1-216-089-00	METAL CHIP 47K 5% 1/10W
R303	1-216-049-00	METAL CHIP 1K 5% 1/10W
R304	1-216-097-00	METAL CHIP 100K 5% 1/10W
R305	1-216-113-00	METAL CHIP 470K 5% 1/10W
R306	1-216-113-00	METAL CHIP 470K 5% 1/10W
R307	1-216-097-00	METAL CHIP 100K 5% 1/10W
R308	1-216-085-00	METAL CHIP 33K 5% 1/10W
R309	1-216-056-00	METAL CHIP 2K 5% 1/10W
R310	1-216-058-00	METAL CHIP 2.4K 5% 1/10W
R311	1-216-025-00	METAL CHIP 100 5% 1/10W
R312	1-216-113-00	METAL CHIP 470K 5% 1/10W
R313	1-216-101-00	METAL CHIP 150K 5% 1/10W
R314	1-216-121-00	METAL CHIP 1M 5% 1/10W
R315	1-216-091-00	METAL CHIP 56K 5% 1/10W
R601	1-216-049-00	METAL CHIP 1K 5% 1/10W
R602	1-216-073-00	METAL CHIP 10K 5% 1/10W
R603	1-216-073-00	METAL CHIP 10K 5% 1/10W
R604	1-216-085-00	METAL CHIP 33K 5% 1/10W
R605	1-216-083-00	METAL CHIP 27K 5% 1/10W
R606	1-216-091-00	METAL CHIP 56K 5% 1/10W
R607	1-216-077-00	METAL CHIP 15K 5% 1/10W
R608	1-216-089-00	METAL CHIP 47K 5% 1/10W
R609	1-216-049-00	METAL CHIP 1K 5% 1/10W
R610	1-216-001-00	METAL CHIP 10 5% 1/10W
R611	1-216-097-00	METAL CHIP 100K 5% 1/10W
R612	1-216-101-00	METAL CHIP 150K 5% 1/10W
R613	1-216-049-00	METAL CHIP 1K 5% 1/10W
R614	1-216-049-00	METAL CHIP 1K 5% 1/10W
R615	1-216-101-00	METAL CHIP 150K 5% 1/10W
R616	1-216-097-00	METAL CHIP 100K 5% 1/10W
R617	1-216-001-00	METAL CHIP 10 5% 1/10W
R618	1-216-049-00	METAL CHIP 1K 5% 1/10W
R701	1-216-089-00	METAL CHIP 47K 5% 1/10W
R702	1-216-085-00	METAL CHIP 33K 5% 1/10W
R703	1-216-053-00	METAL CHIP 1.5K 5% 1/10W
R705	1-216-035-00	METAL CHIP 270 5% 1/10W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
R706	1-216-105-00	METAL CHIP 220K 5% 1/10W
R707	1-216-113-00	METAL CHIP 470K 5% 1/10W
R708	1-216-025-00	METAL CHIP 100 5% 1/10W
R709	1-216-097-00	METAL CHIP 100K 5% 1/10W
R710	1-216-049-00	METAL CHIP 1K 5% 1/10W
R711	1-216-089-00	METAL CHIP 47K 5% 1/10W
R712	1-216-097-00	METAL CHIP 100K 5% 1/10W
R713	1-216-073-00	METAL CHIP 10K 5% 1/10W
R714	1-216-049-00	METAL CHIP 1K 5% 1/10W
R715	1-216-097-00	METAL CHIP 100K 5% 1/10W
R716	1-216-121-00	METAL CHIP 1M 5% 1/10W
R717	1-216-121-00	METAL CHIP 1M 5% 1/10W
R718	1-216-121-00	METAL CHIP 1M 5% 1/10W
R719	1-216-121-00	METAL CHIP 1M 5% 1/10W
R720	1-216-113-00	METAL CHIP 470K 5% 1/10W
R721	1-216-121-00	METAL CHIP 1M 5% 1/10W
R722	1-216-097-00	METAL CHIP 100K 5% 1/10W
R723	1-216-097-00	METAL CHIP 100K 5% 1/10W
R724	1-216-073-00	METAL CHIP 10K 5% 1/10W
R725	1-216-025-00	METAL CHIP 100 5% 1/10W
R726	1-216-097-00	METAL CHIP 100K 5% 1/10W
R727	1-216-049-00	METAL CHIP 1K 5% 1/10W
R728	1-216-085-00	METAL CHIP 33K 5% 1/10W
R732	1-216-089-00	METAL CHIP 47K 5% 1/10W
R733	1-216-073-00	METAL CHIP 10K 5% 1/10W
R734	1-216-073-00	METAL CHIP 10K 5% 1/10W
R801	1-216-083-00	METAL CHIP 27K 5% 1/10W
R802	1-216-085-00	METAL CHIP 33K 5% 1/10W
R803	1-216-085-00	METAL CHIP 33K 5% 1/10W
R804	1-216-049-00	METAL CHIP 1K 5% 1/10W
R805	1-216-053-00	METAL CHIP 1.5K 5% 1/10W
R806	1-216-113-00	METAL CHIP 470K 5% 1/10W
R807	1-216-085-00	METAL CHIP 33K 5% 1/10W
R808	1-216-113-00	METAL CHIP 470K 5% 1/10W
R809	1-216-035-00	METAL CHIP 270 5% 1/10W
R810	1-216-007-00	METAL CHIP 18 5% 1/10W
RV1	1-230-989-11	RES, ADJ, METAL GLAZE 4.7K
RV2	1-230-991-11	RES, ADJ, METAL GLAZE 22K
RV3	1-230-991-11	RES, ADJ, METAL GLAZE 22K
RV4	1-237-139-11	RES, VAR, CARBON (TUNING) 100K
RV14	3-831-441-XX	SPACER
RV101	1-237-002-11	RES, ADJ, METAL GLAZE 2.2K
RV201	1-237-002-11	RES, ADJ, METAL GLAZE 2.2K
RV301	1-230-955-11	RES, VAR, CARBON 10K/10K (VOL)
RV601	1-237-004-11	RES, ADJ, METAL GLAZE 10K

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-570-402-11	SWITCH, SLIDE (FUNCTION)
S2	1-570-397-11	SWITCH, SLIDE (BAND)
S301	1-570-396-11	SWITCH, SLIDE (FWD/RVS)
S302	1-570-397-11	SWITCH, SLIDE (TAPE)
S303	1-570-397-11	SWITCH, SLIDE (DOLBY NR)
S701	1-570-548-11	SWITCH, LEAF (POWER) (FF/REW)
S702	1-570-395-11	SWITCH, LEAF (DIR)
T1	1-404-583-11	IFT
T2	1-406-177-11	COIL
T3	1-448-302-11	TRANSFORMER, DC-DC CONVERTER
T801	1-447-864-11	TRANSFORMER, DC-DC CONVERTER

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-528-176-11	BATTERY, STORAGE (NC-5WM)
1-528-181-11	(US).....BATTERY CHARGER (BC-7)
1-528-182-11	(Canadian)...BATTERY CHARGER (BC-7)
3-329-792-02	CUSHION
3-329-793-02	LID, CUSHION
3-331-002-01	INDIVIDUAL CARTON
3-331-028-01	SPACER
3-331-053-01	CASE, CARRYING
3-331-088-01	LABEL, MODEL NUMBER (U)
3-331-088-11	LABEL, MODEL NUMBER (U)
3-701-622-00	BAG, POLYETHYLENE
3-527-213-00	(Canadian)...LABEL, SERIAL NUMBER
3-701-999-00	(US).....LABEL, SERIAL NUMBER
3-703-895-01	(BLACK)...LABEL, COLOR
3-703-906-01	(SILVER)...LABEL, COLOR
3-704-086-01	LABEL (BLACK), GENERAL DISCERN
3-704-087-01	LABEL (SILVER), GENERAL DISCERN
3-760-814-21	(US).....MANUAL, INSTRUCTION
3-760-814-31	(Canadian)...MANUAL, INSTRUCTION
3-795-748-21	SAFETY INSTRUCTIONS, HEADPHONE
8-952-266-94	HEADPHONES MDR-A10L/B SET
X-3329-646-2	CASE (B) ASSY, BATTERY
X-3329-648-1	CASE (B) ASSY, BATTERY

