

WM-F107

SERVICE MANUAL

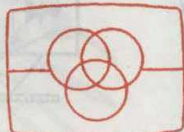


US Model
Canadian Model
AEP Model
UK Model
E Model

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SPECIFICATIONS

- Frequency range** FM: 87.6–107 MHz (for West Germany)
87.6–108 MHz (for other countries)
AM: 530–1,605 kHz
- Antennas** FM: Headphones 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
Built-in solar battery
Built-in nickel-cadmium rechargeable battery
DC IN 1.5 V jack accepts:
- Supplied battery case/belt clip for use with one IEC designation R6 battery (size AA)
 - Sony EBP-10 battery case (optional) for use with two IEC designation R6 batteries (size AA)
 - Sony AC-D1 AC power adaptor (optional)
For use on 120 V ac, 60 Hz in US, Canadian models
For use on 240 V ac, 50 Hz in United Kingdom
For use on 220 V ac, 50 Hz in European countries
For use on 110, 120, 220, 240 V ac, adjustable, 50/60 Hz in other countries
 - Sony DCC-70 car battery cord (optional) for use with 12 V car battery

Battery life (hours)

Battery	FM reception	Tape playback
Built-in rechargeable (fully changed)	Approx. 10	Approx. 2
Sony SUM-3(NS) New Super	Approx. 10	Approx. 2
Sony Eveready AM3 alkaline	Approx. 20	Approx. 4

For maximum performance we recommend the use of alkaline battery.

Tape Transport Mechanism Type MF-WMF107-01

0dB = 0.775V

- Charging time (full-charge)**
Approx. four hours
(Charging time when charging the rechargeable battery with the solar battery, depends on the weather, the sunlight angle, or the battery condition.)
- Dimensions**
Approx. 78 × 109.8 × 29.2 mm (w/h/d)
(3 1/8 × 4 3/8 × 1 1/8 inches)
not incl. projecting parts and controls
Approx. 91.5 × 113.8 × 34 mm (w/h/d)
(3 5/8 × 4 1/2 × 1 3/8 inches)
incl. projecting parts and controls
- Weight**
Approx. 280 g (10 oz)
not incl. supplied accessories

FEATURES

- Built-in solar battery powers the unit in direct sunlight.
- Built-in rechargeable battery and the supplied battery case power the unit indoors or outdoors, in the absence of sunlight.
- The unit and the supplied battery case/belt clip are designed to be water-resistant, and the supplied headphones (earphones) are designed to be splash-resistant.

FM/AM
STEREO CASSETTE-PLAYER
SONY®

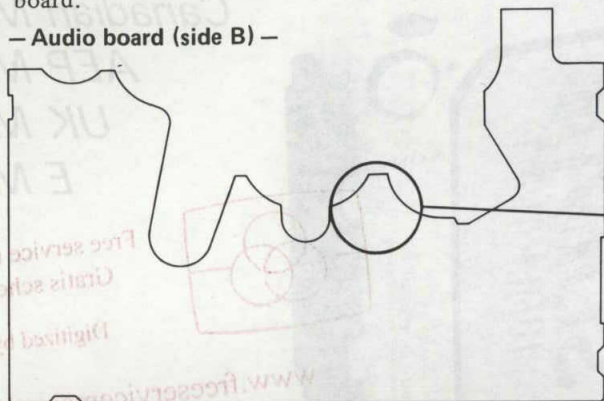


SERVICING NOTES

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

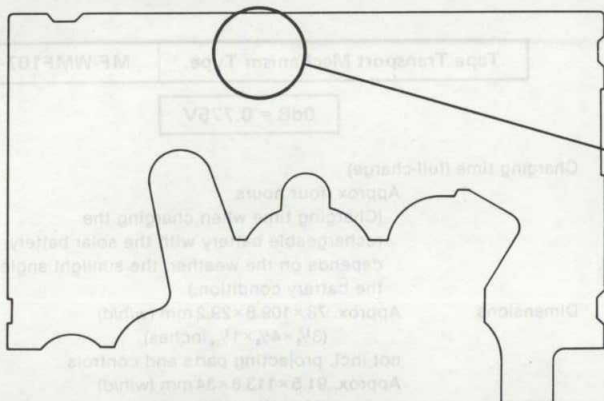
It cannot be detected when the audio board removed, because PH701 is mounted on the audio board.

— Audio board (side B) —



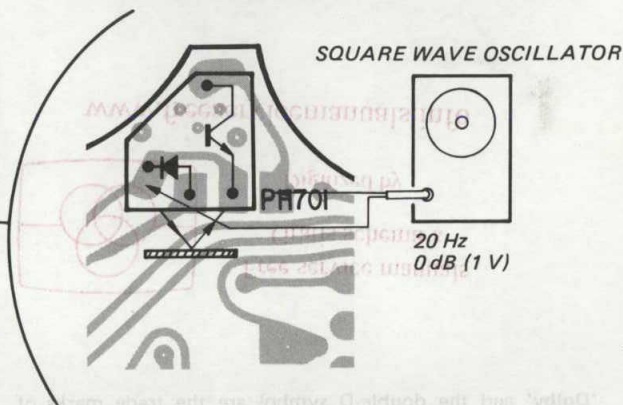
- For PLAY, press the ► button and turn only the POWER switch ON.

— Audio board (side A) —



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

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

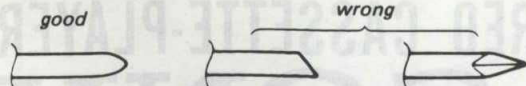


- For FF and REW, press ►► or ◀◀ button and turn both POWER switch and FF/REW switch ON.

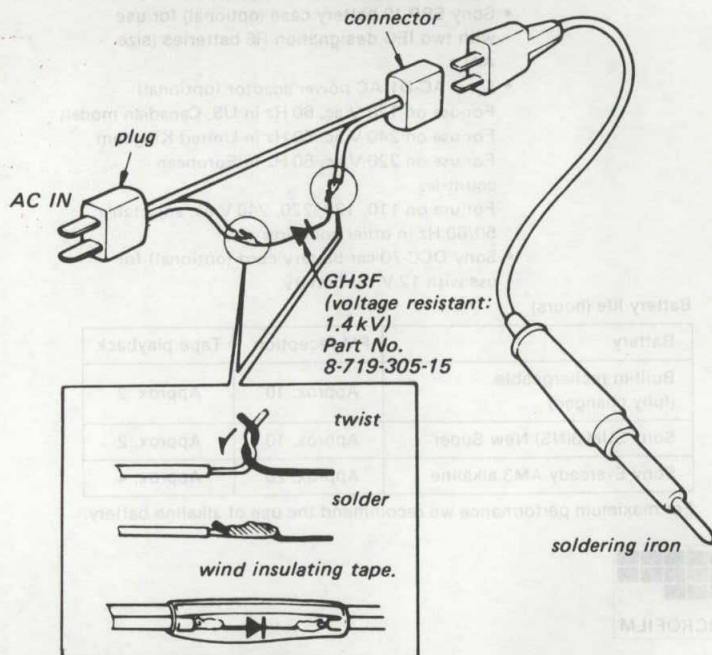
Flexible Circuit Board Repairing

1. Keep the temperature of the soldering iron at $270^{\circ} \pm 10^{\circ}C$ during repairing. You can maintain the temperature of the soldering iron around $270^{\circ}C$ 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



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.

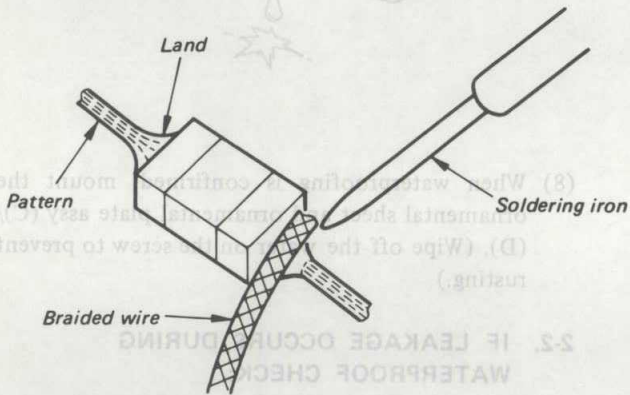
Precautions for replacement

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

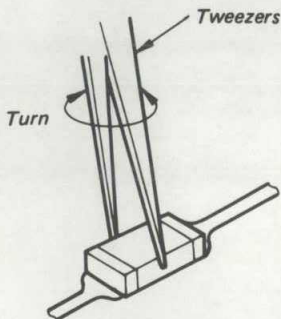
(1) Removing solder at electrode

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.

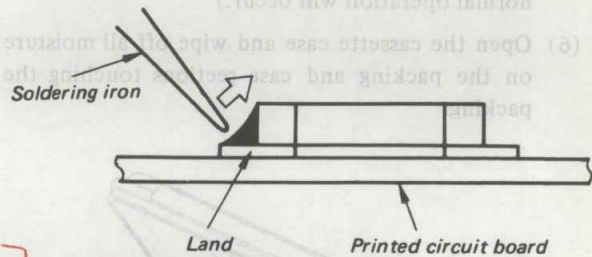
(1) Applying solder to land on one side

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.

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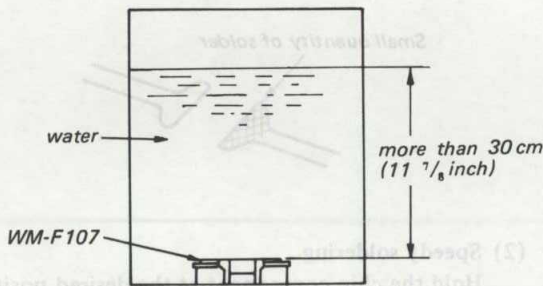
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CHECKING WATERPROOF

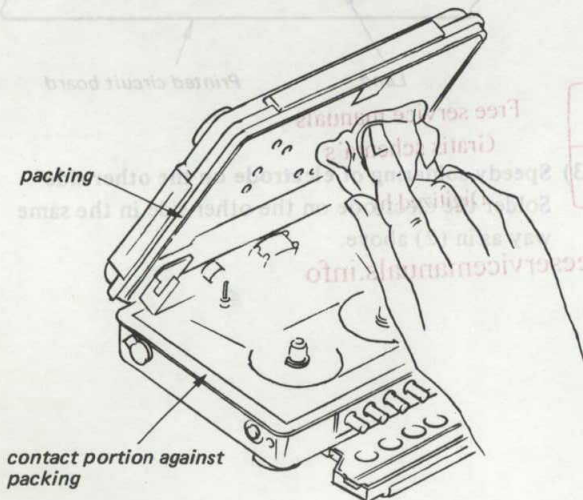
This model is waterproof, so be sure to confirm waterproofing after repair.

2-1. WATERPROOF CHECK

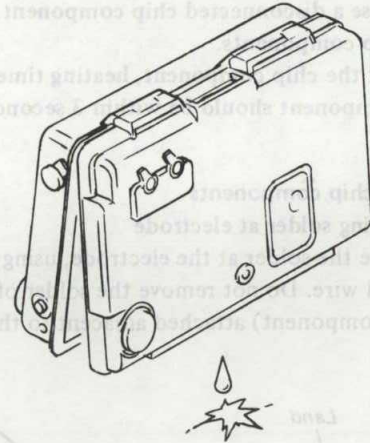
- (1) Perform with the ornamental sheet and ornamental plate assy (C)/(D) removed. (See page 5). (If there is leakage when checking with them on, they must be replaced with new ones.)
- (2) Insert a tape cassette in the set. (So that it will sink.)
- (3) Place in more than 30 cm of water for 30 minutes.



- (4) Remove from the water after 30 minutes and wipe off all moisture.
- (5) Check all operations. (If water has entered, abnormal operation will occur.)
- (6) Open the cassette case and wipe off all moisture on the packing and case sections touching the packing.



- (7) Shake the set and confirm that no water comes out.



- (8) When waterproofing is confirmed, mount the ornamental sheet and ornamental plate assy (C)/(D). (Wipe off the water on the screw to prevent rusting.)

2-2. IF LEAKAGE OCCURS DURING WATERPROOF CHECK:

Dry the mechanism section and audio board, jack, etc. with a hairdryer, perform waterproofing procedures again and recheck starting with step (1).

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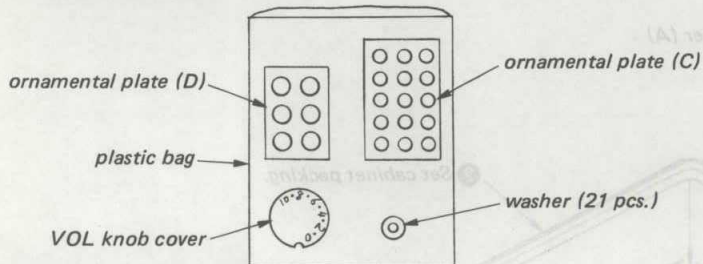
2-1. ORNAMENTAL PLATE AND WASHER ASS'Y

(1) The following part consists of five sets of ornamental plate and washer.

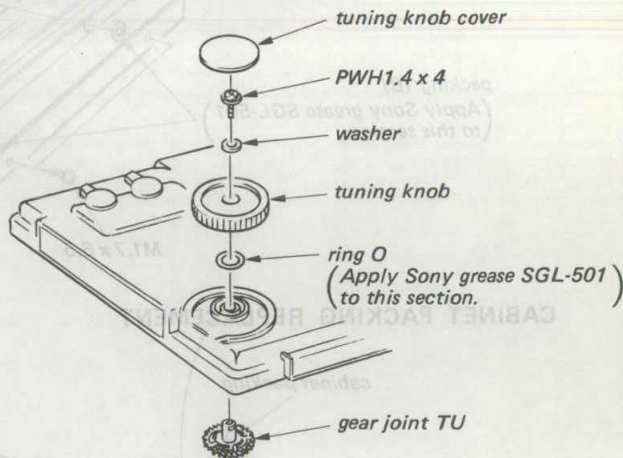
- X-3334-813-1 (White)
- X-3334-814-1 (Yellow)

Ornamental Plate and Washer Ass'y

Assembled parts



TUNING KNOB REPLACEMENT



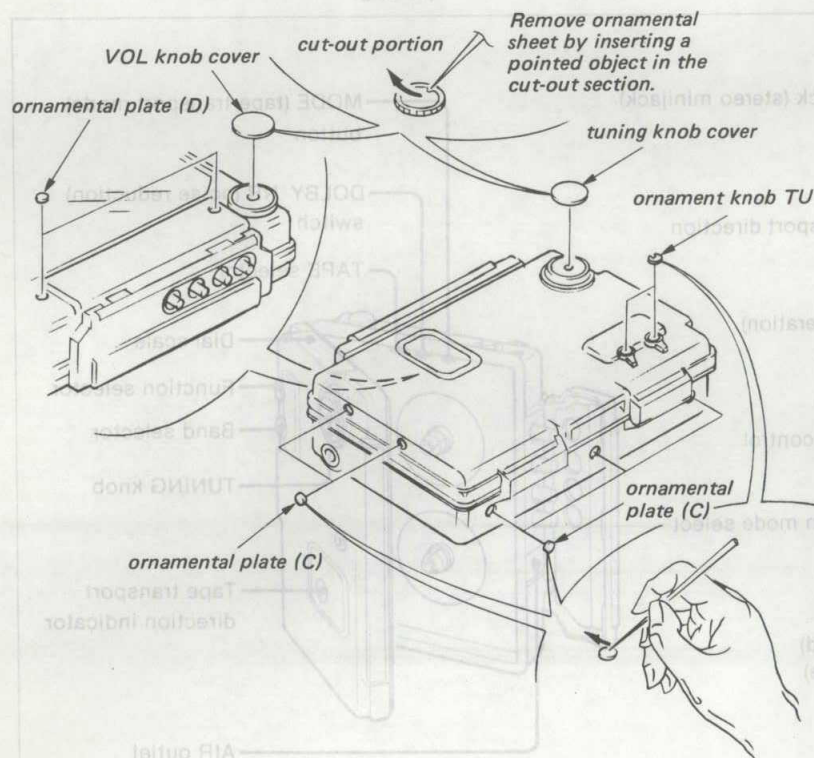
WATERPROOFING REPAIR MATERIALS

Part No.

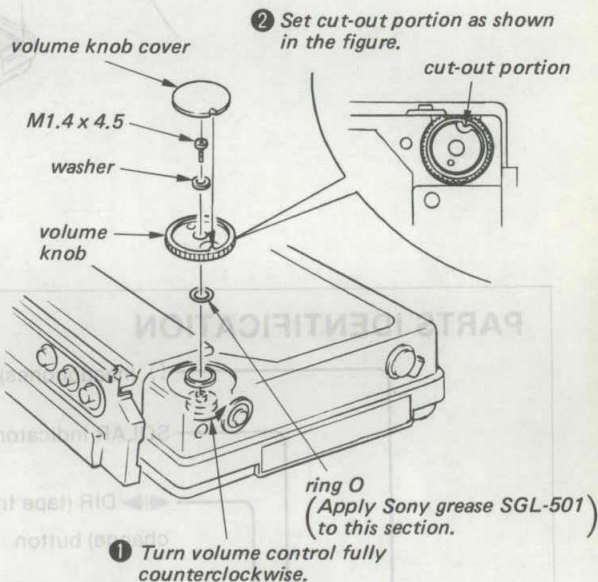
- Sony grease SGL-501 7-662-001-2240

ORNAMENTAL PLATE ASSY (C)/(D), VOL KNOB COVER REMOVAL

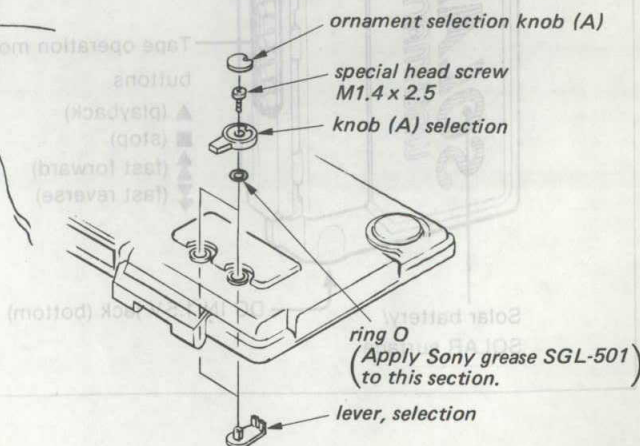
(Replace with a new part when assembling.)



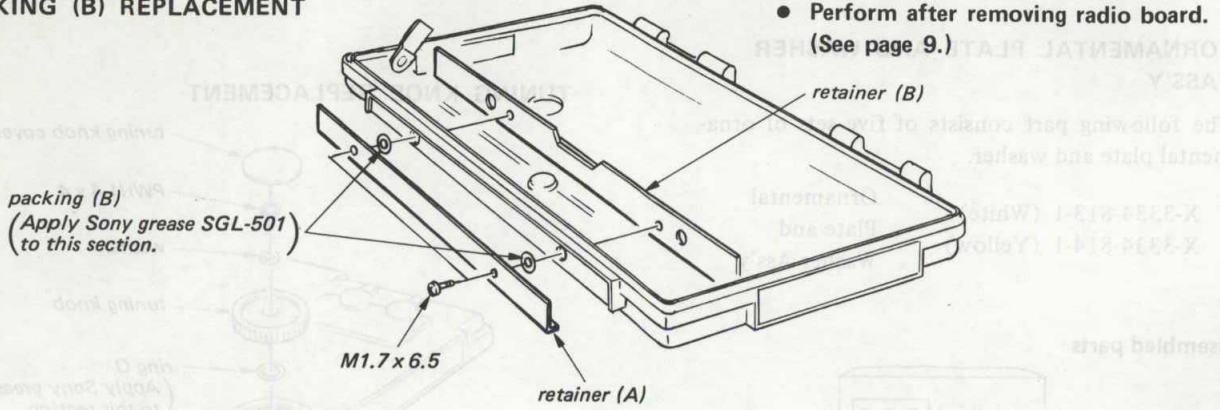
VOL KNOB REPLACEMENT



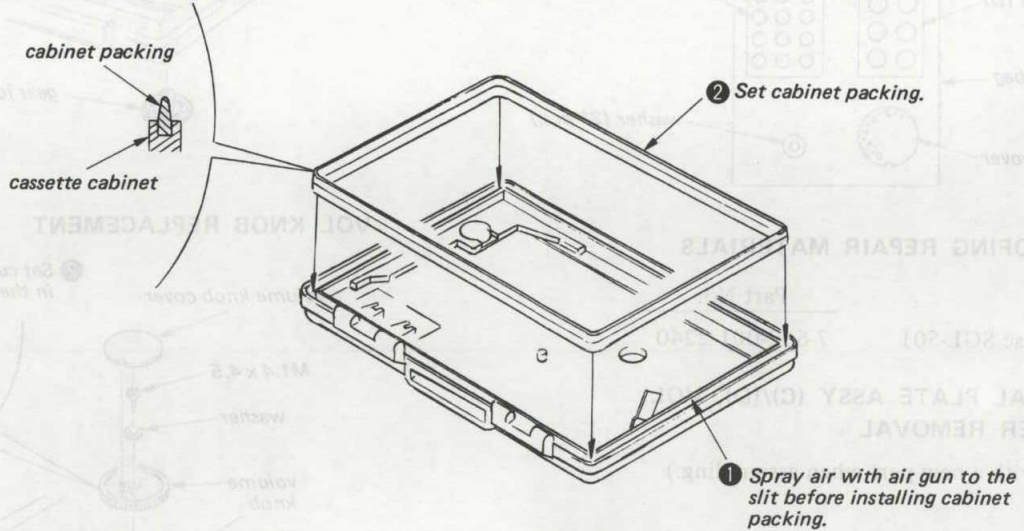
SELECT KNOB REPLACEMENT



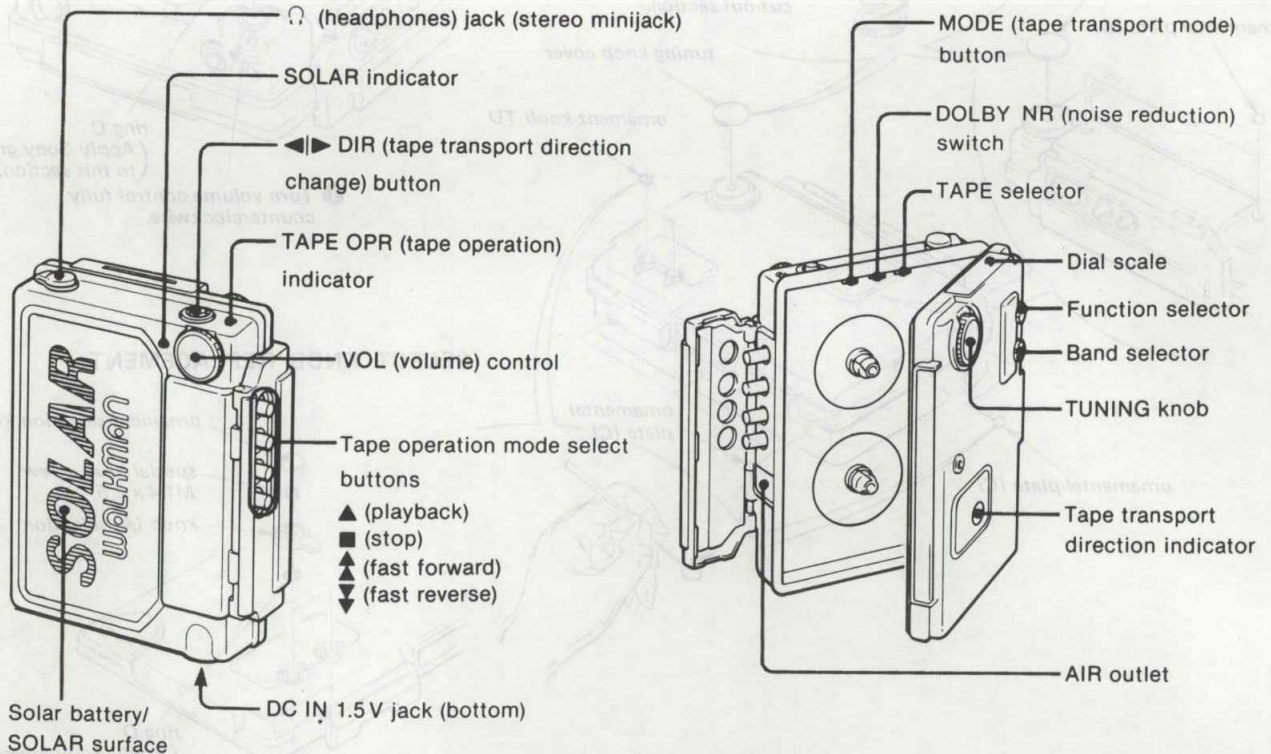
PACKING (B) REPLACEMENT



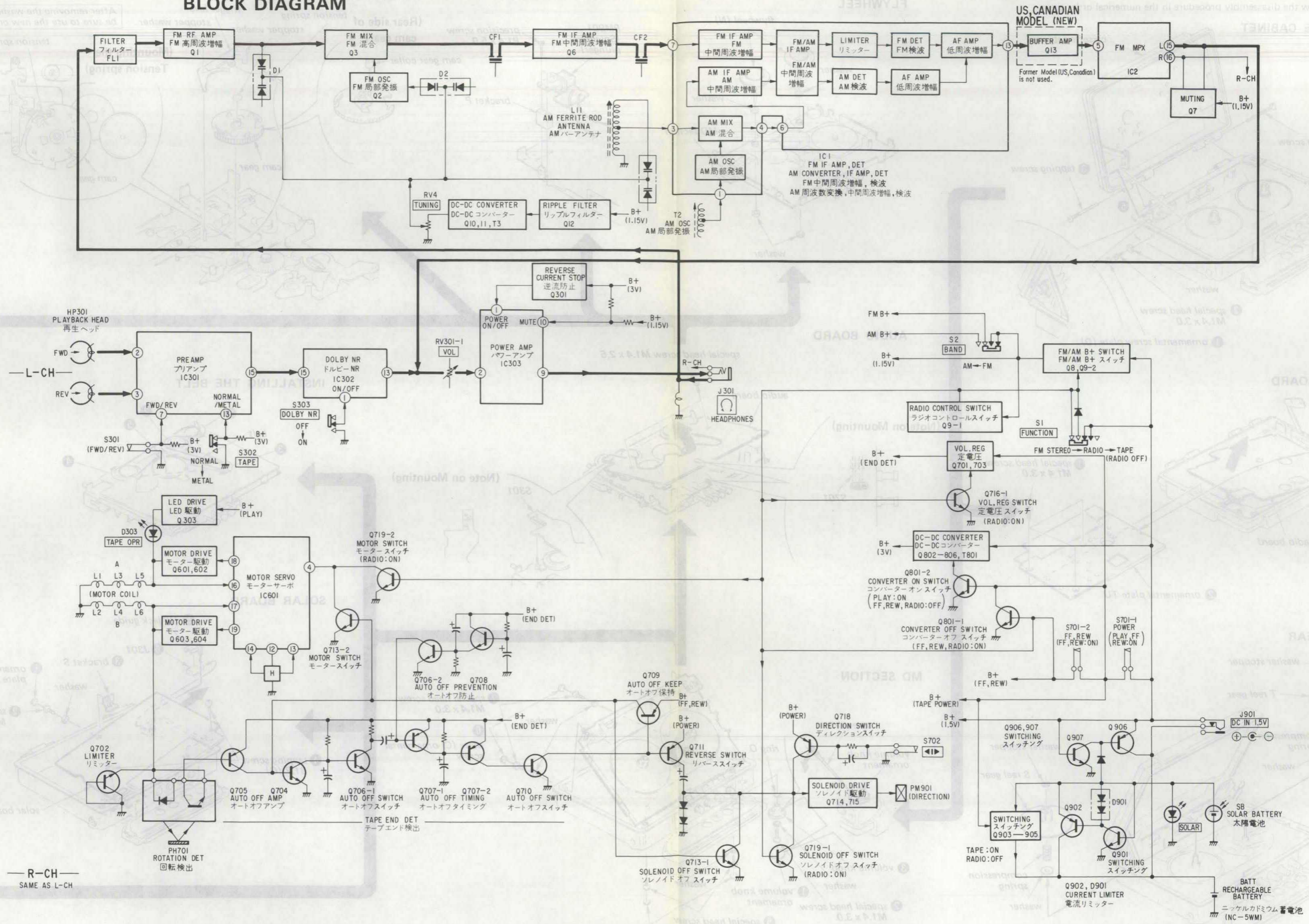
CABINET PACKING REPLACEMENT



PARTS IDENTIFICATION



SECTION 1
BLOCK DIAGRAM



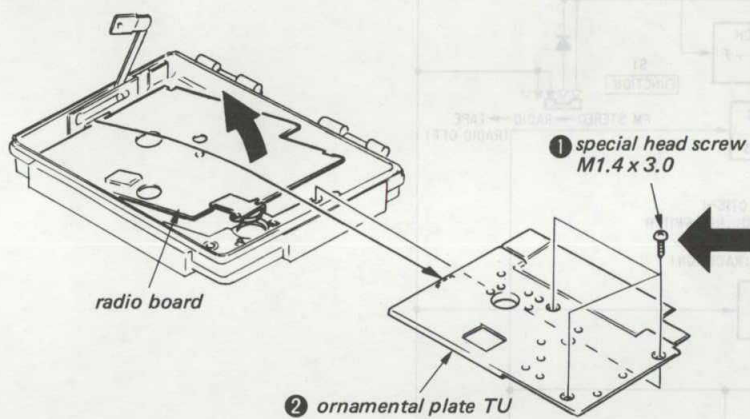
SECTION 2 DISASSEMBLY

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

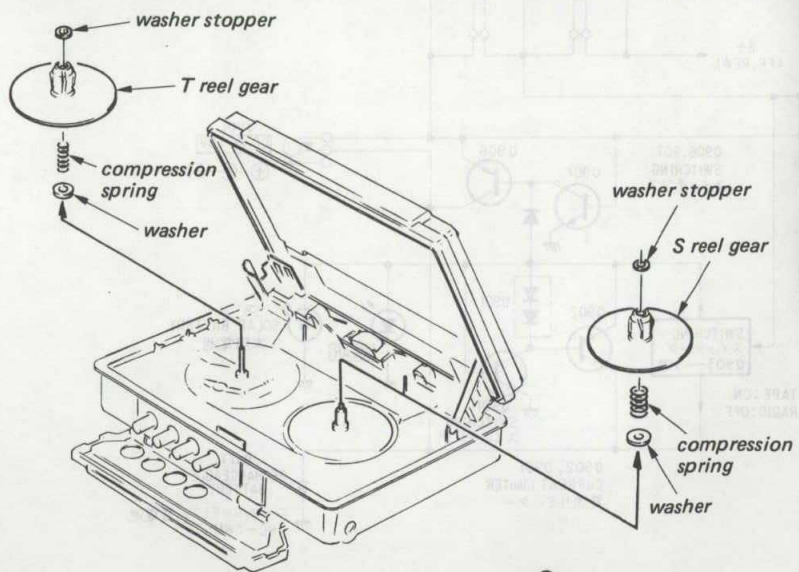
CASSETTE CABINET



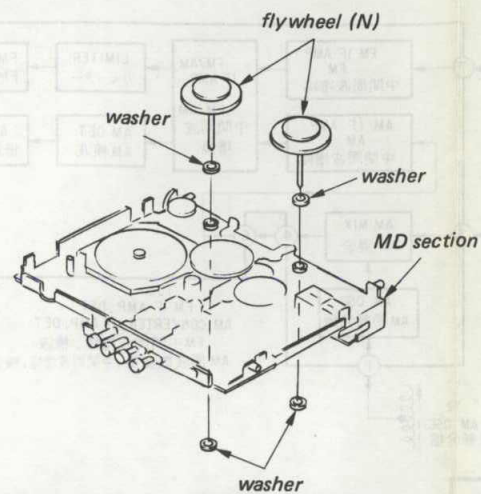
RADIO BOARD



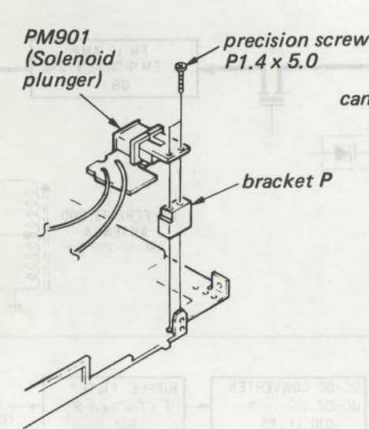
REEL GEAR



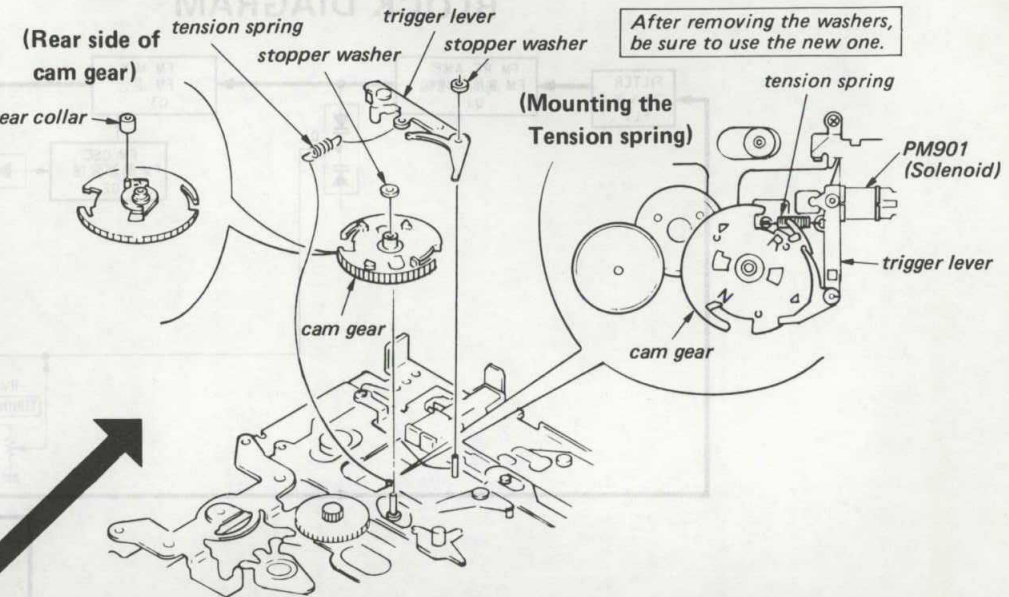
FLYWHEEL



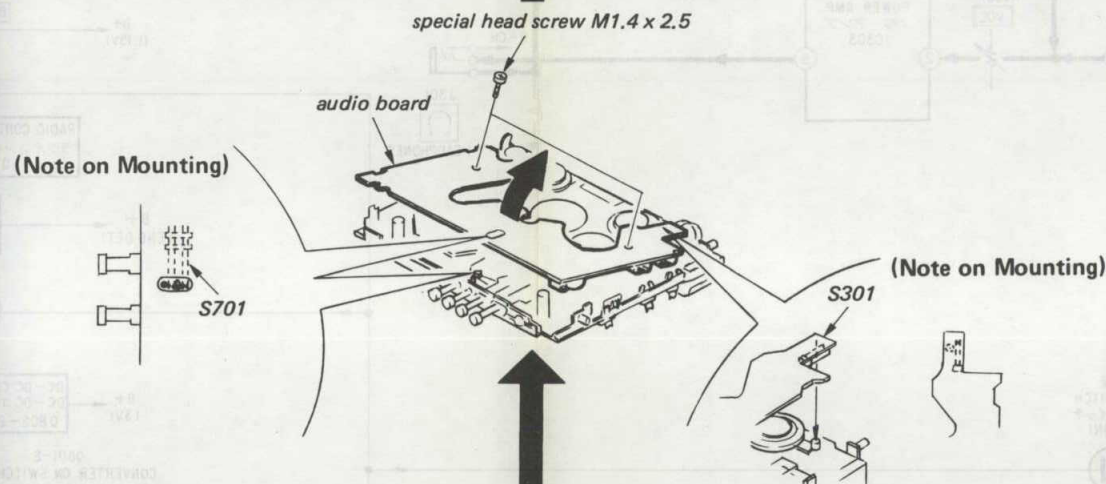
SOLENOID PLUNGER



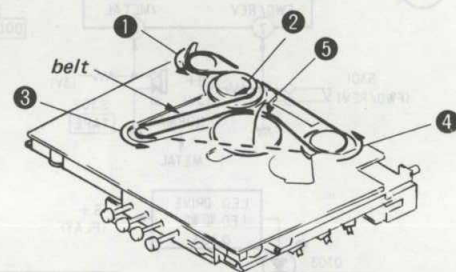
TRIGGER LEVER, CAM GEAR



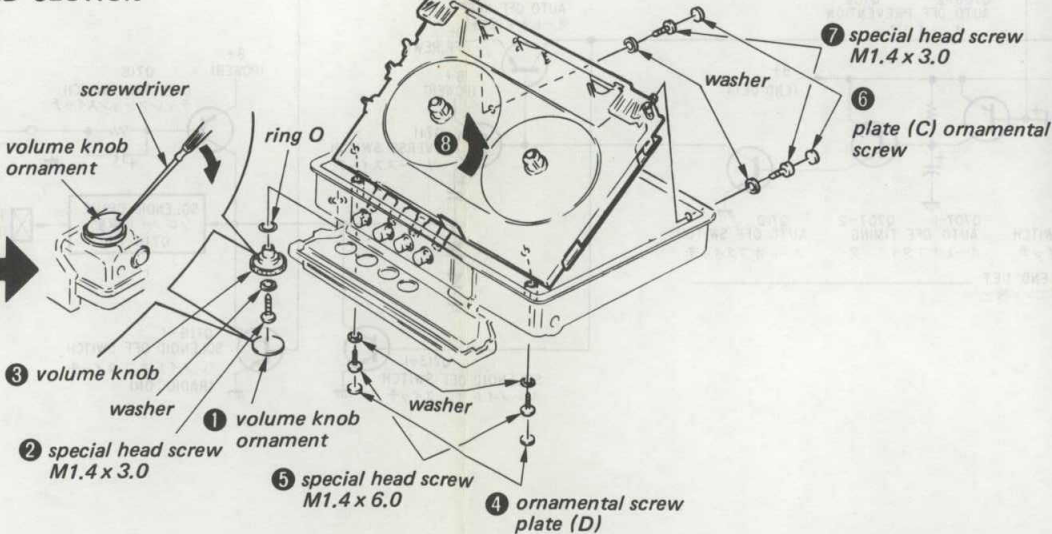
AUDIO BOARD



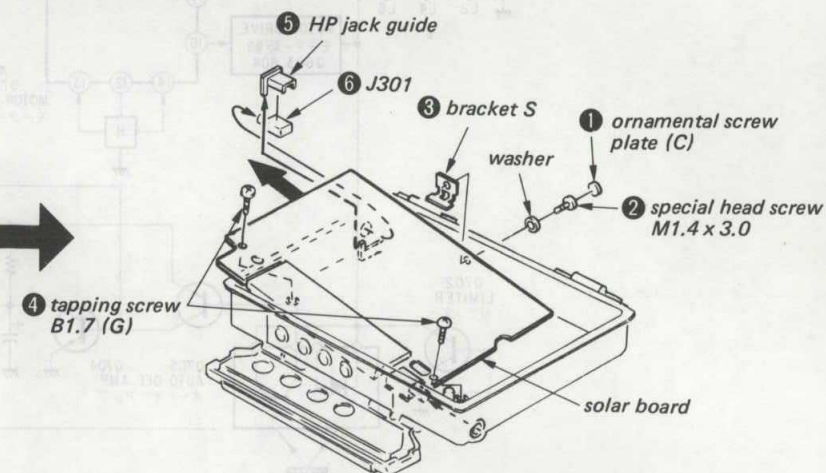
INSTALLING THE BELT



MD SECTION



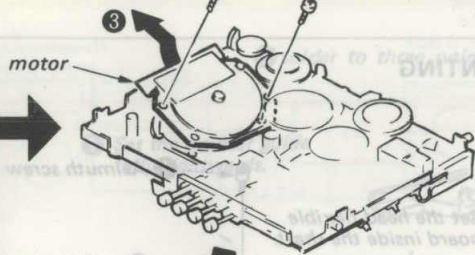
SOLAR BOARD



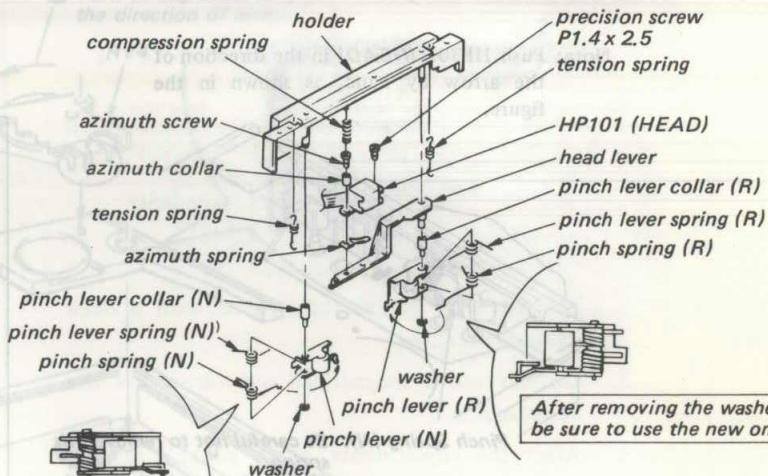
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MOTOR SETTING

- 2 special head screw M1.4 x 2.8
- 1 precision screw P1.4 x 2.2



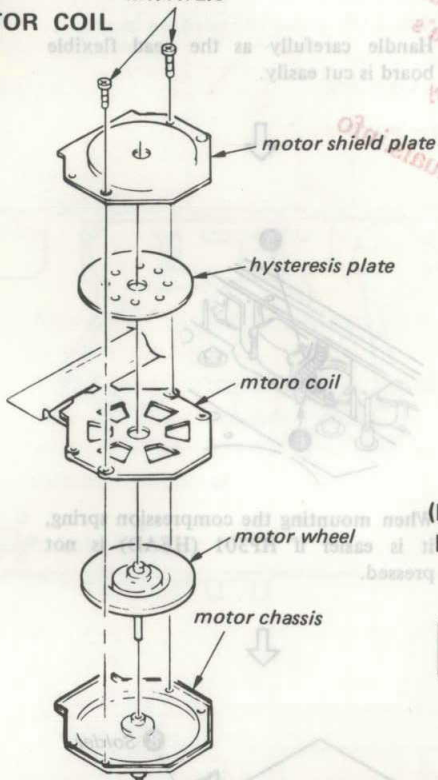
HEAD, PINCH ROLLER



After removing the washers, be sure to use the new one.

MOTOR COIL

special head screw M1.4 x 2.8



HOLDER

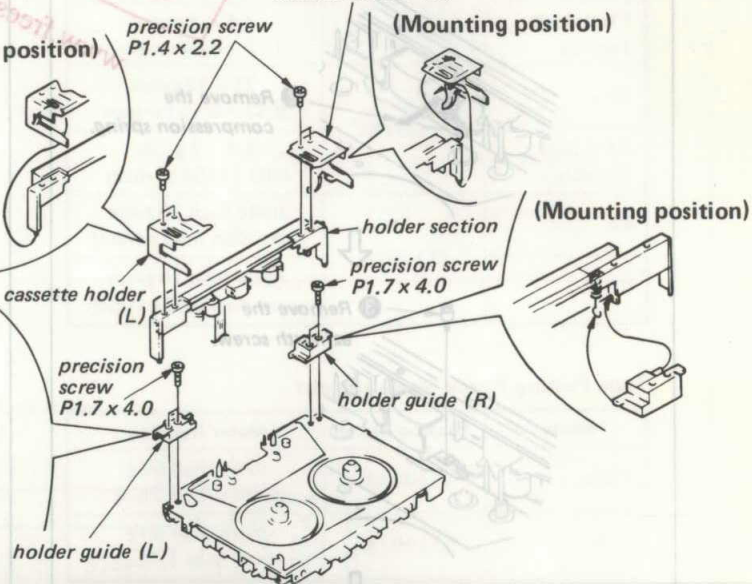
(Mounting position)

cassette holder (R)

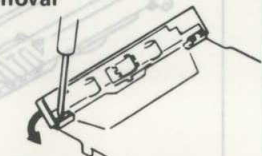
(Mounting position)

(Mounting Position)

(Mounting position)



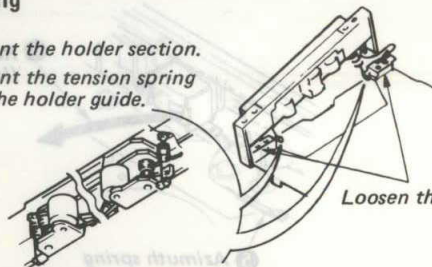
Removal



- 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.



Loosen the screws.

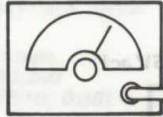
It is easier to install when the tension spring is hooked on the holder guide as illustrated.

FM Section

Setting:

FUNCTION switch: RADIO, DX
BAND switch: FM

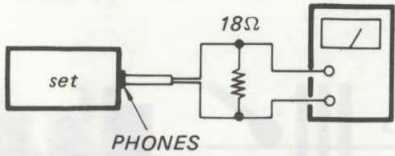
FM RF SG



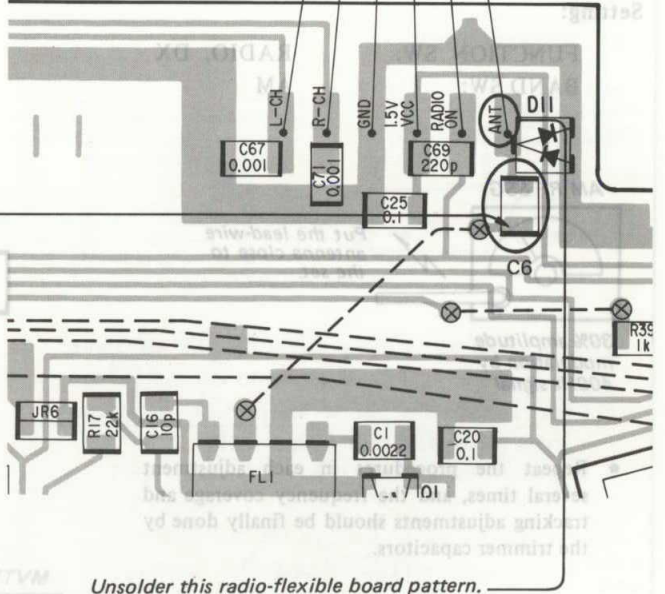
22.5 kHz frequency deviation by 400 Hz signal

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

VTVM (0.5 ~ 5 V AC)



[RADIO BOARD]

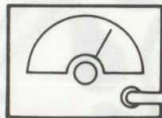


Unsolder this radio-flexible board pattern.

VCO Adjustment

Procedure:

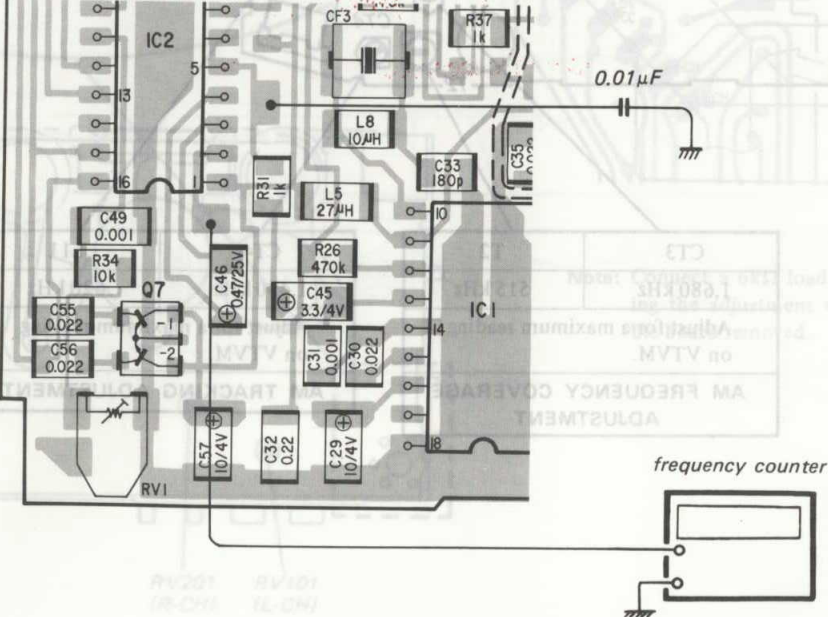
FM RF SG



Carrier frequency: 98 MHz
Modulation: No modulation
Output level: 1 mV (60 dB)
Connecting point: See above.

- Tune the set to 98 MHz.
- Adjust RV1 for 19 kHz ±20 Hz reading on the frequency counter.

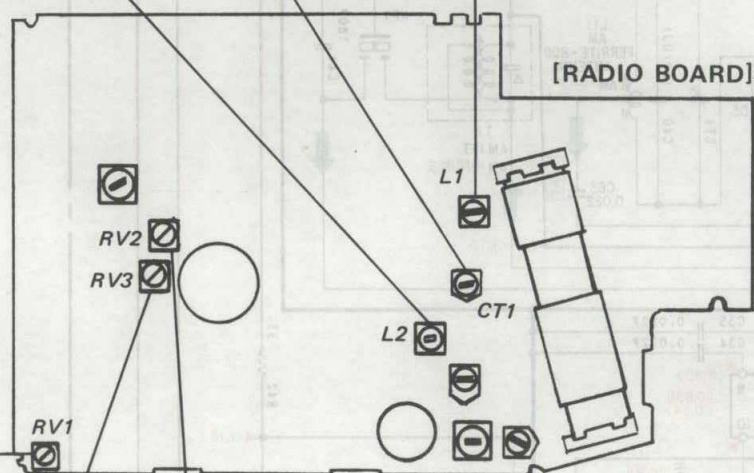
[RADIO BOARD]



RV1

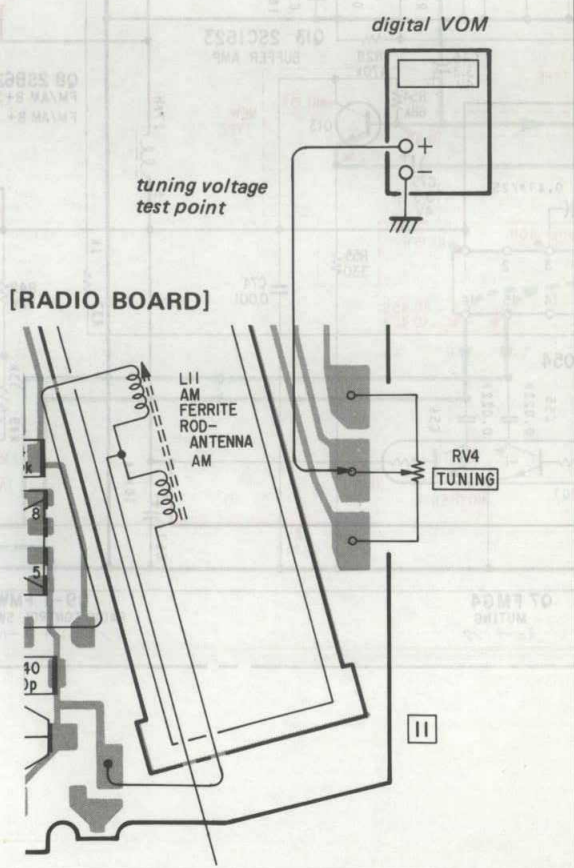
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum VTVM reading.	
86.5 MHz	109.5 MHz
L2	CT1

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

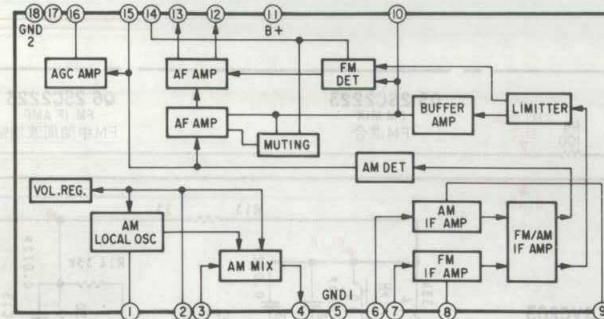


RV3	RV2
VOM 1V	VOM 9V
Minimum receiving frequency	Maximum receiving frequency
TUNING VOLTAGE ADJUSTMENT*	

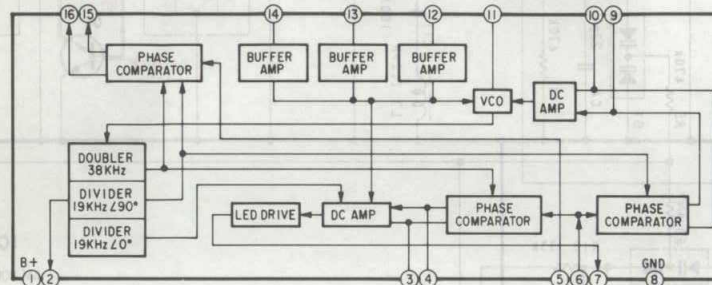
*FM frequency coverage adjustment and the tracking adjustment should be performed after the tuning voltage adjustment.



• IC1 CX10053B



• IC2 CX10054



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 $1/4\text{W}$ or less unless otherwise specified.
- FM signal path.
- AM signal path.
- Playback signal path.
- Δ : 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 k Ω /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 STEREO (RADIO, DX)
S2	BAND	FM

• Semiconductor Lead Layouts

RD10M-B2	CX10054
1S123	2SC2714Y 2SB624-BV4 2SC2712 2SD596 2SA812 2SC2757 2SC2223
SVC203	FMG4 FMW1
1S283	1S2837
KV1260M	CX10053B

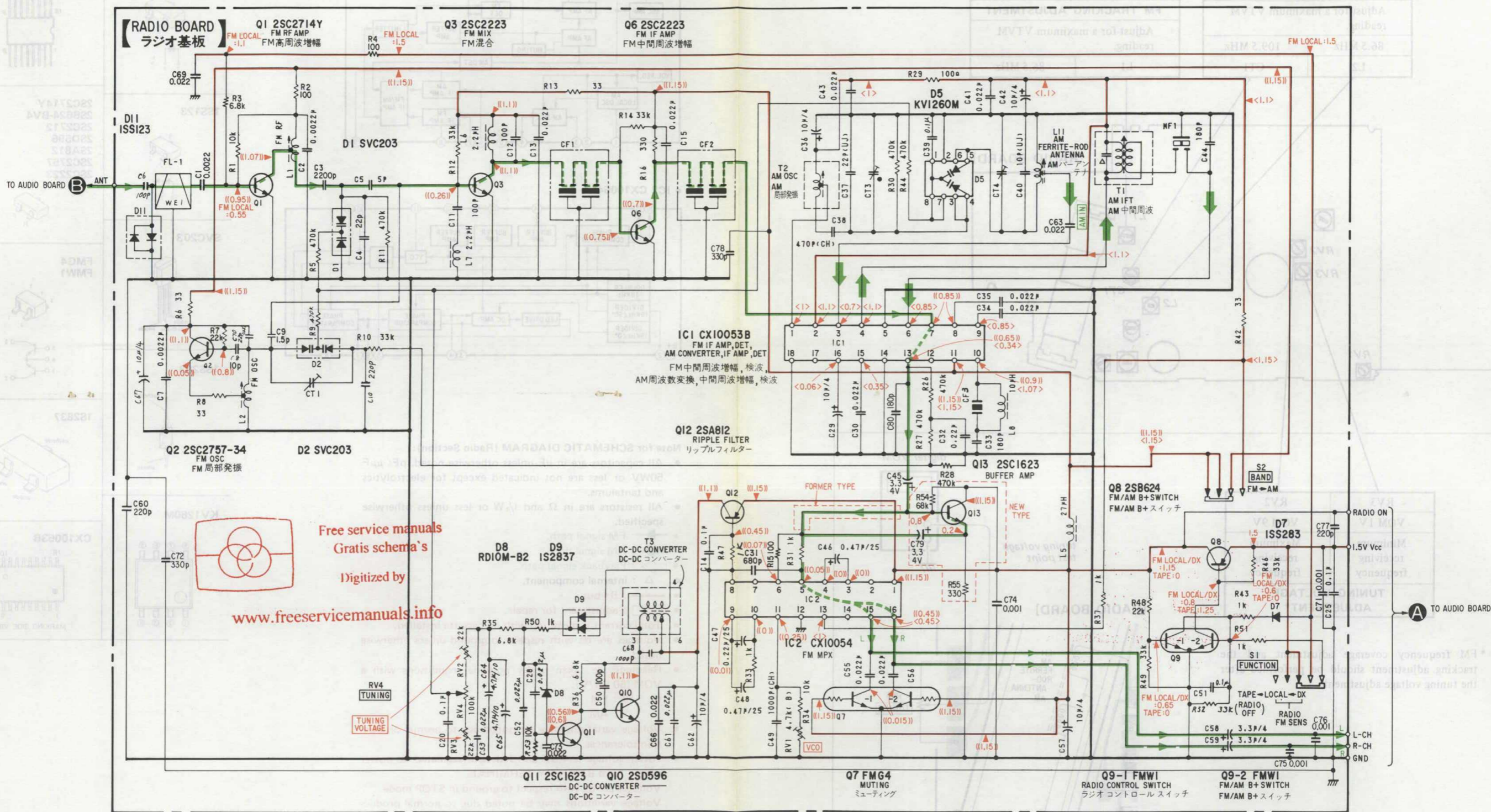
Note for MOUNTING DIAGRAM (Radio Section):

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

DIAGRAMS

4-1. SCHEMATIC DIAGRAM See page 20 for Note.

Radio Section

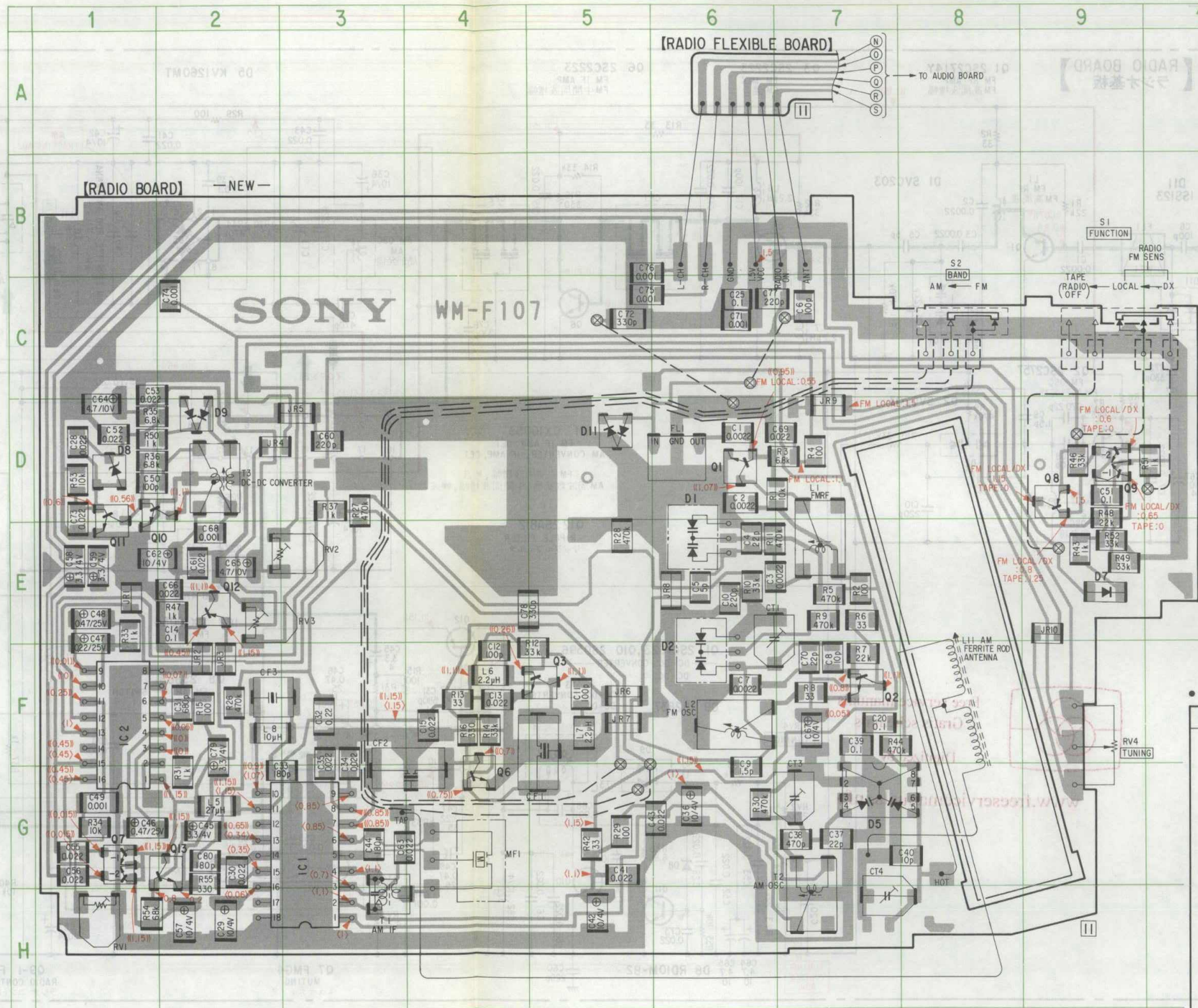
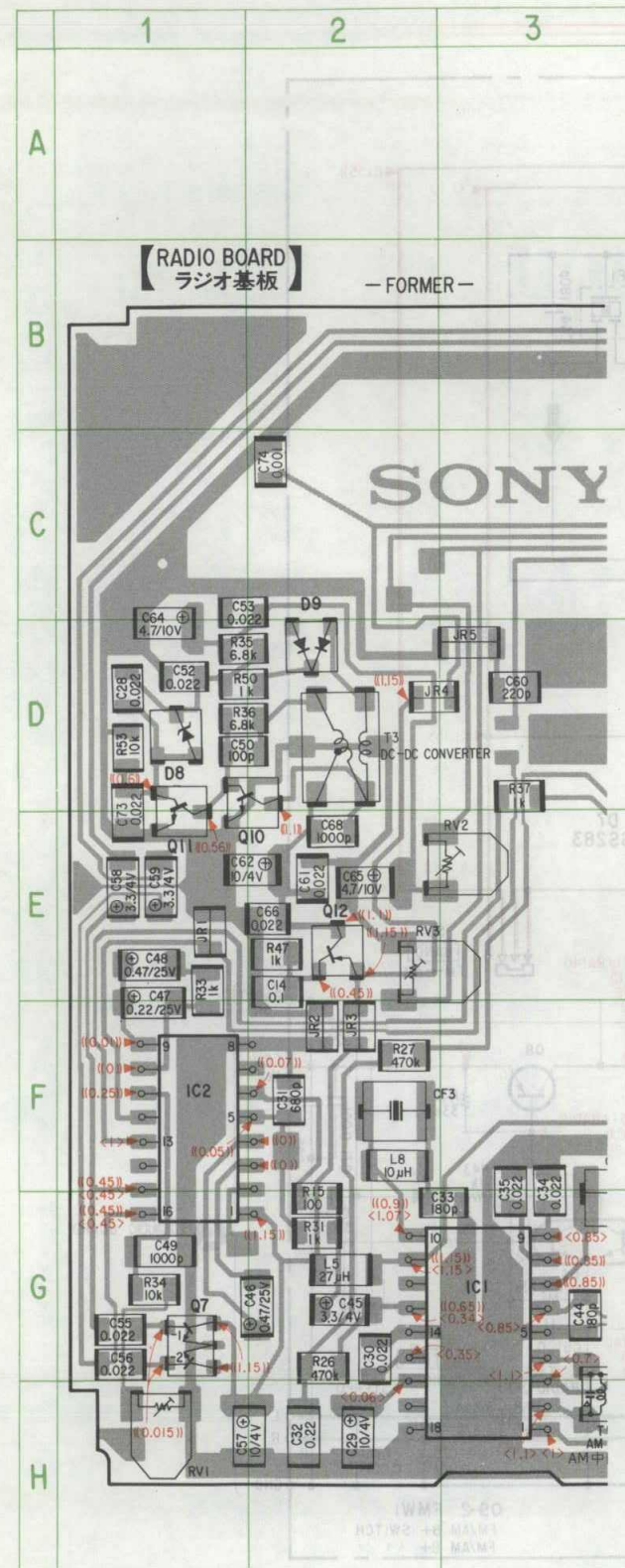


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Ref. No.	Switch	Position
S1	FUNCTION	FM STEREO
S2	BAND	(RADIO, DX)
		FM

4-2. MOUNTING DIAGRAM

See page 20 for Semiconductor Lead Layout, IC Block Diagram and Note.
- Radio Section -

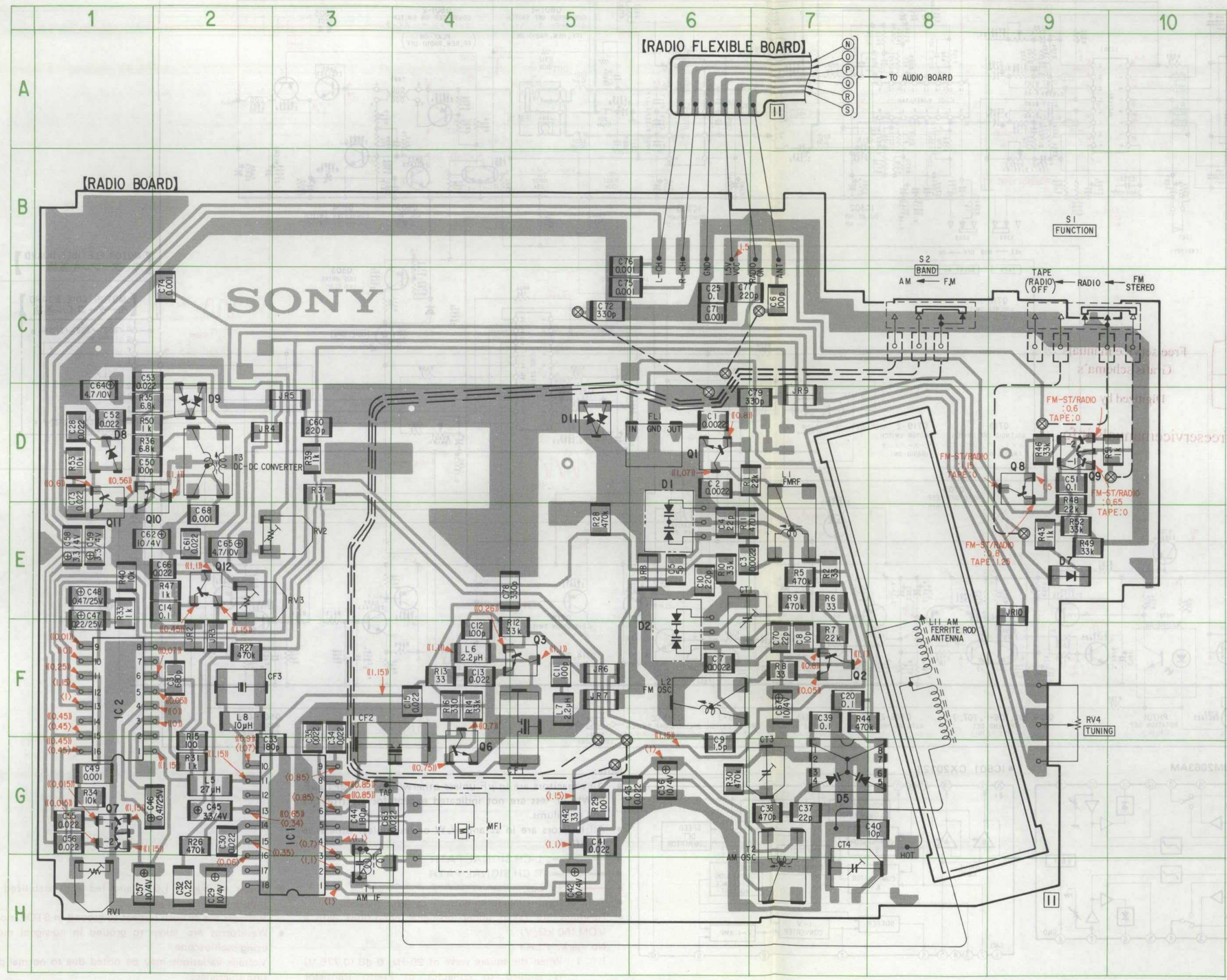


● Semiconductors Location

Ref. No.	Location
D1	D-6
D2	F-6
D5	G-7
D7	E-9
D8	D-1
D9	D-2
D11	D-5
IC1	G-3
IC2	F-1
Q1	D-6
Q2	F-7
Q3	F-5
Q6	G-4
Q7	G-1
Q8	D-9
Q9	D-9
Q10	E-2
Q11	E-1
Q12	E-2
Q13	G-2

4.4. MOUNTING DIAGRAM
- Radio Section -

• See page 20 for Semiconductor Lead Layout,
IC Block Diagram and Note.



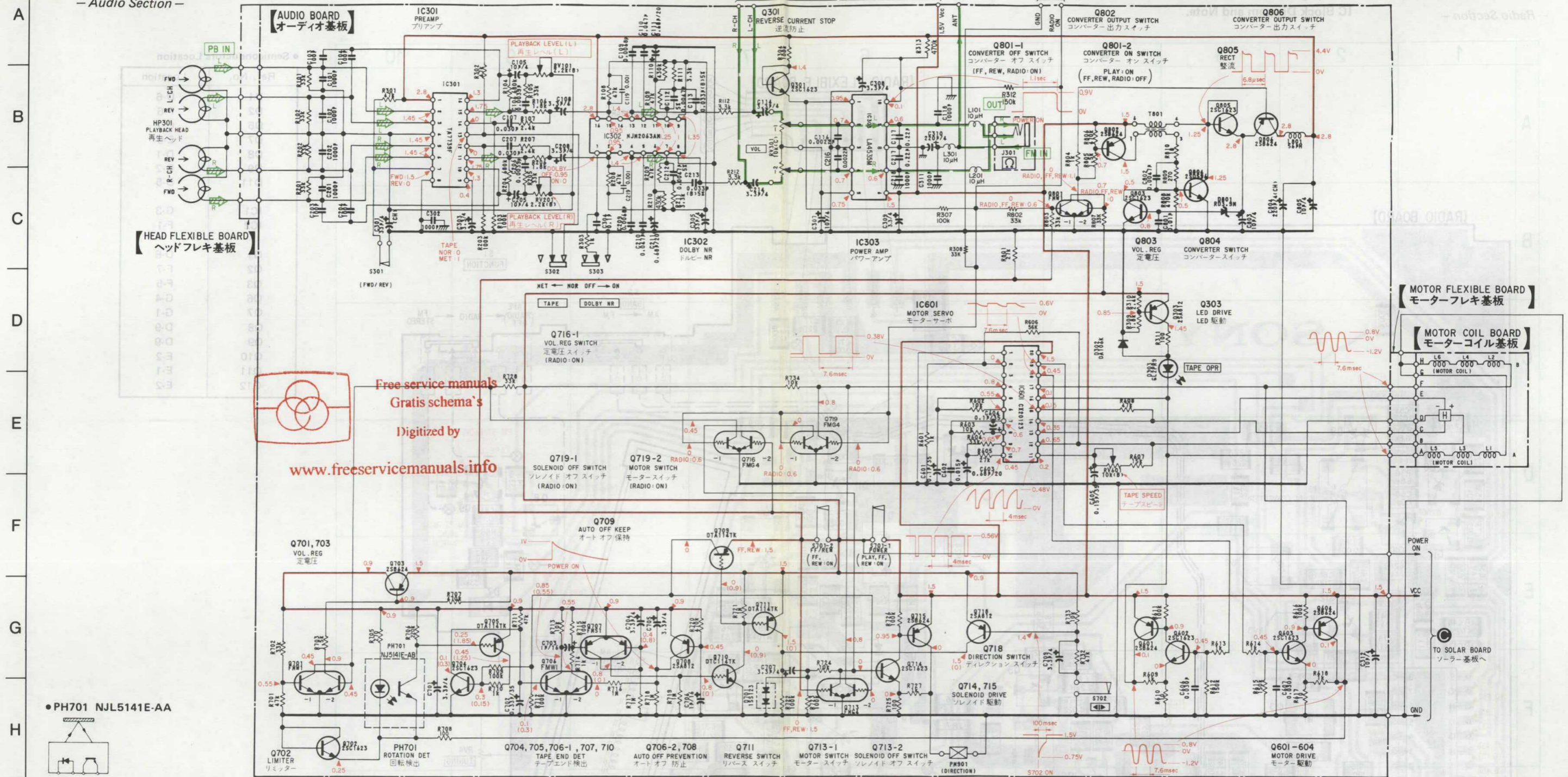
• Semiconductors Location

Ref. No.	Location
D1	D-6
D2	F-6
D5	G-7
D7	E-9
D8	D-1
D9	D-2
D11	D-5
IC1	G-3
IC2	F-1
Q1	D-6
Q2	F-7
Q3	F-5
Q6	G-4
Q7	G-1
Q8	D-9
Q9	D-9
Q10	E-2
Q11	E-1
Q12	E-2

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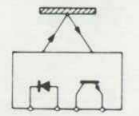
4-5. SCHEMATIC DIAGRAM

- Audio Section -

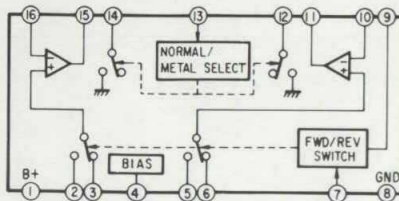


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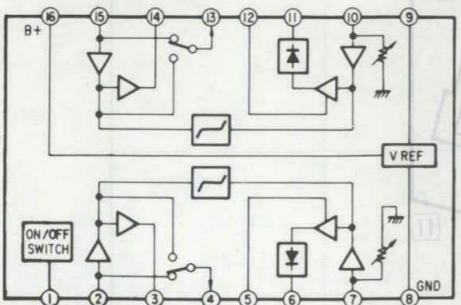
• PH701 NJL5141E-AA



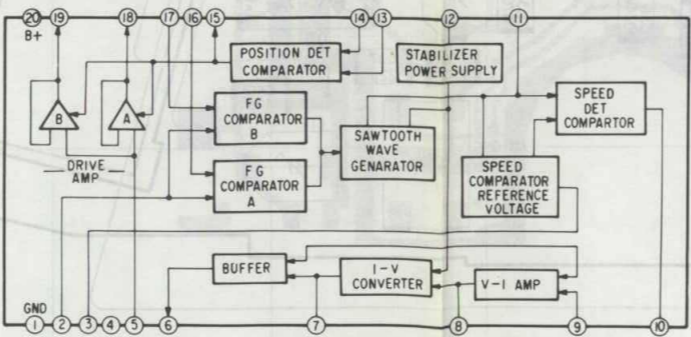
• IC301 TA7739F



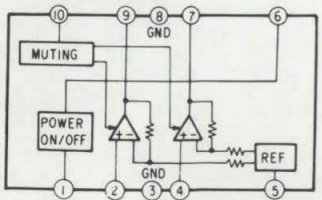
• IC302 NJM2063AM



• IC601 CX20123



• IC303 CX20089



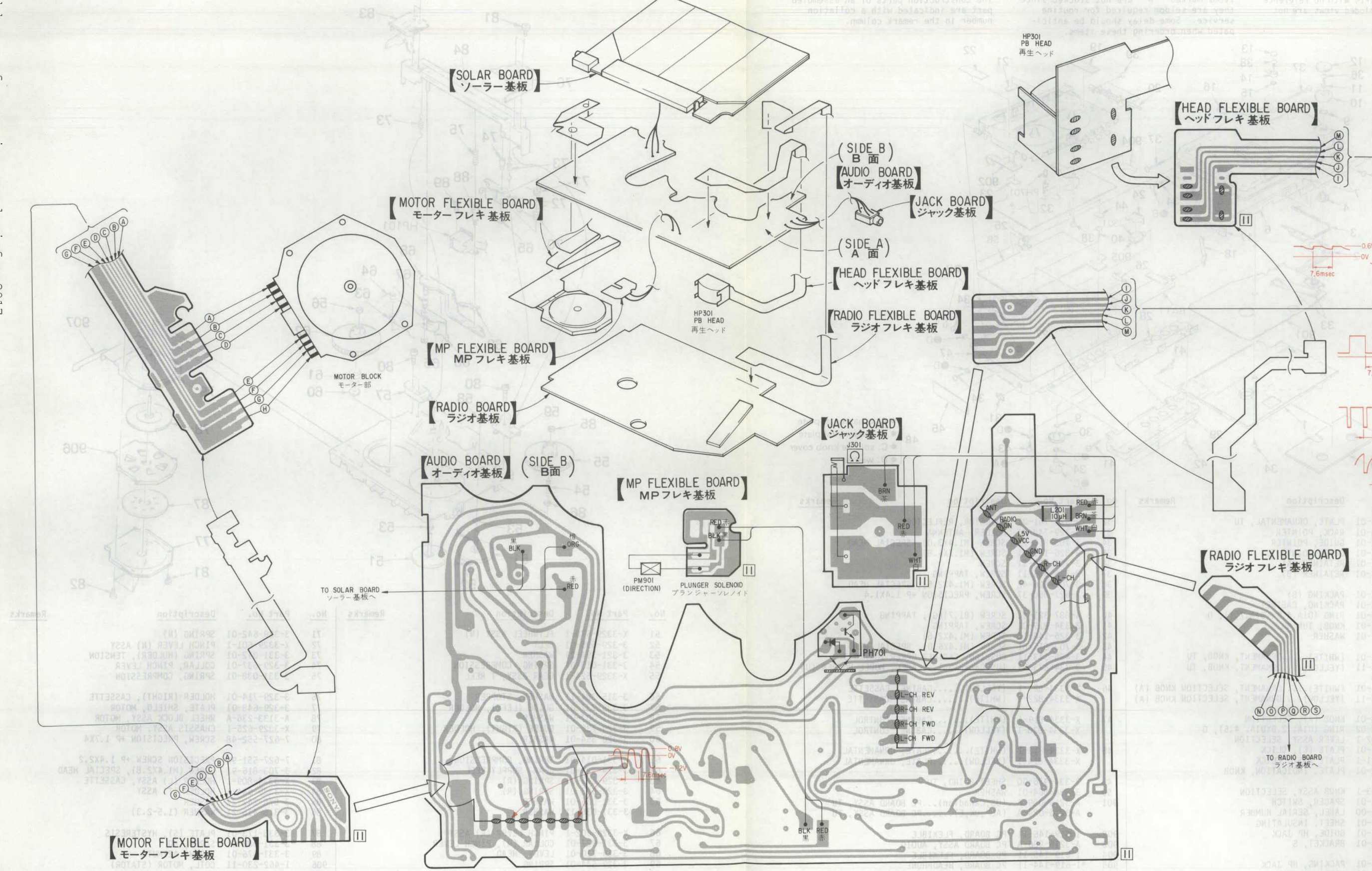
Note:

- All capacitors are in μF unless otherwise noted. pF: μpF 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.
- →: L-CH SIGNAL PATH
- →: R-CH SIGNAL PATH
- →: B+ bus.
- Total current is measured with no cassette installed.
- Readings are taken under no-signal conditions with a VOM (50 k Ω /V).
- No mark: PLAY
- () : When the square wave of 20 Hz, 0 dB (0.775 V) is applied to collector of Photo transistor (PH701).

- Power voltage is 1.5 V and fed with stabilized power supply from DC IN jack.
- Voltages are dc with respect to ground in STOP mode.
- Waveforms are taken to ground in no-signal mode by using oscilloscope.
- Voltage variations may be noted due to normal production tolerances.

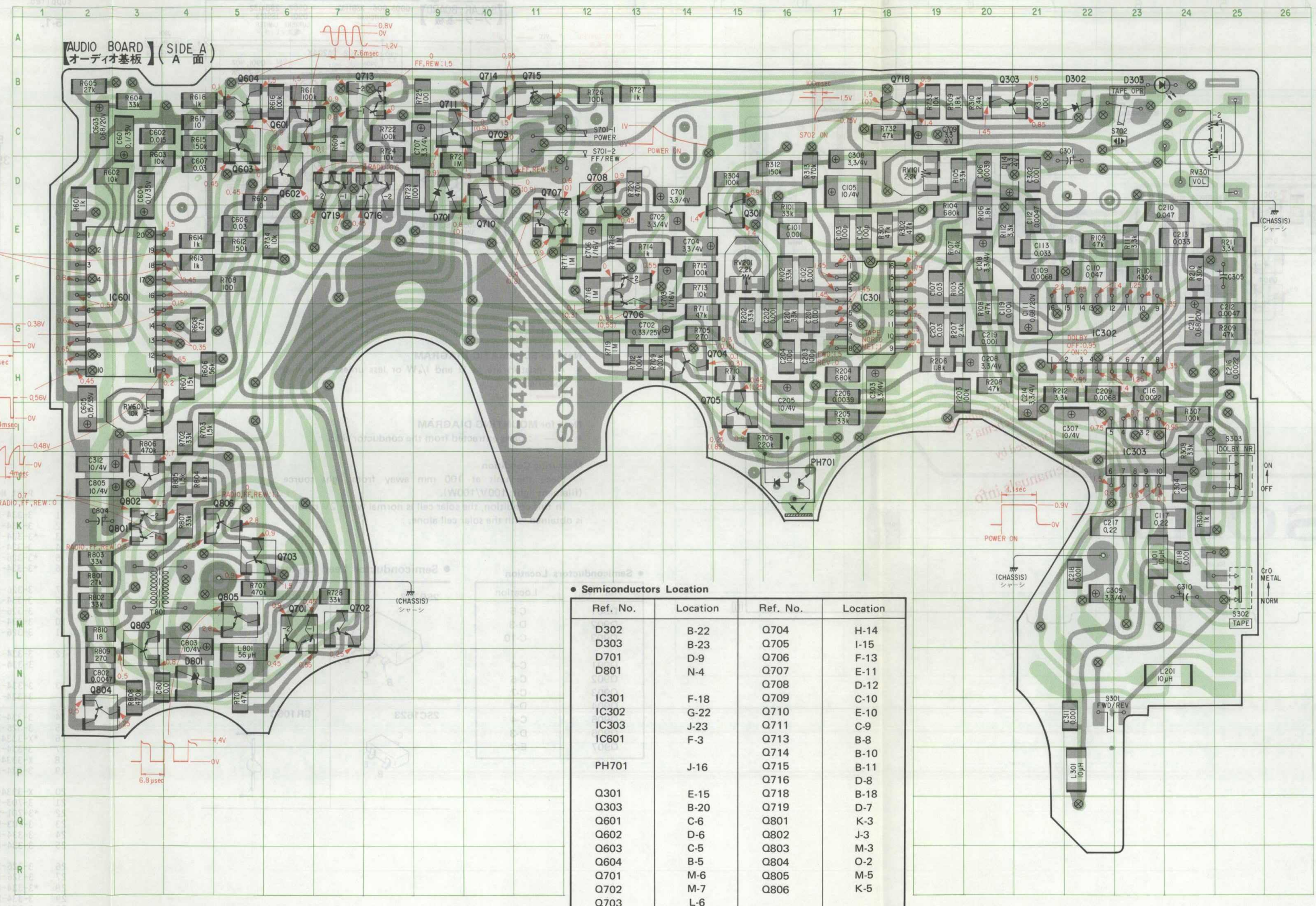
4-6. MOUNTING DIAGRAM See page 20 for Semiconductor Lead Layouts.

- Audio Section -



Note:

- : parts extracted from the component side.
- ⊗ : Through hole.
- (green) : component-side pattern.



● Semiconductor Location

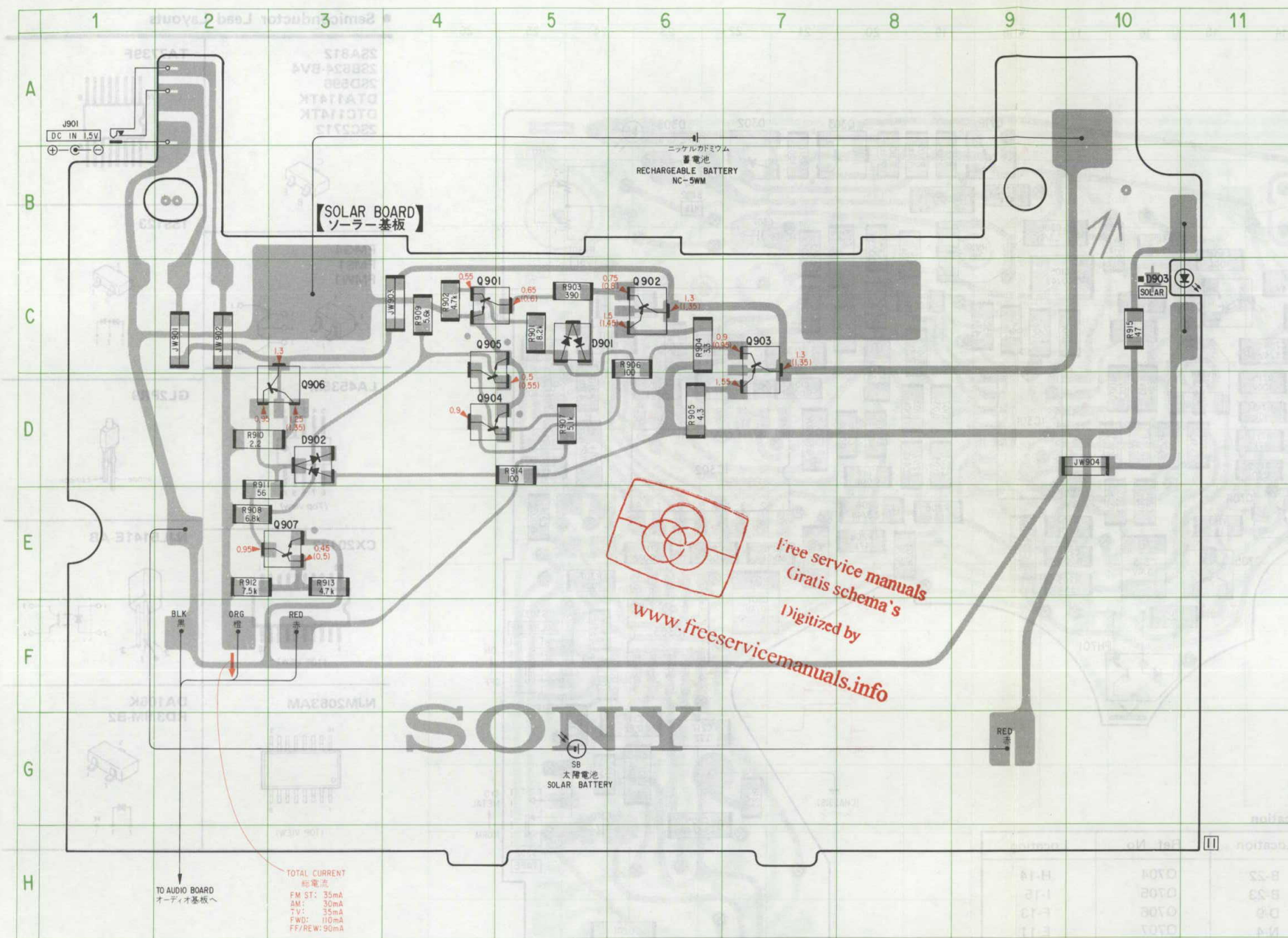
Ref. No.	Location	Ref. No.	Location
D302	B-22	Q704	H-14
D303	B-23	Q705	I-15
D701	D-9	Q706	F-13
D801	N-4	Q707	E-11
		Q708	D-12
IC301	F-18	Q709	C-10
IC302	G-22	Q710	E-10
IC303	J-23	Q711	C-9
IC601	F-3	Q713	B-8
		Q714	B-10
PH701	J-16	Q715	B-11
		Q716	D-8
Q301	E-15	Q718	B-18
Q303	B-20	Q719	D-7
Q601	C-6	Q801	K-3
Q602	D-6	Q802	J-3
Q603	C-5	Q803	M-3
Q604	B-5	Q804	O-2
Q701	M-6	Q805	M-5
Q702	M-7	Q806	K-5
Q703	L-6		

● Semiconductor Lead Layouts

25A812 25B824-BV4 25D596 DTA114TK DTC114TK 25C2712	TA7739F
FMG4 FMS1 FMW1	ISS123
LA4535M	GL2PR9
CX20123	NJL5141E-AB
NJM2063AM	DA106K RD3.9M-B2

4-7. MOUNTING DIAGRAM

- Solar Section -

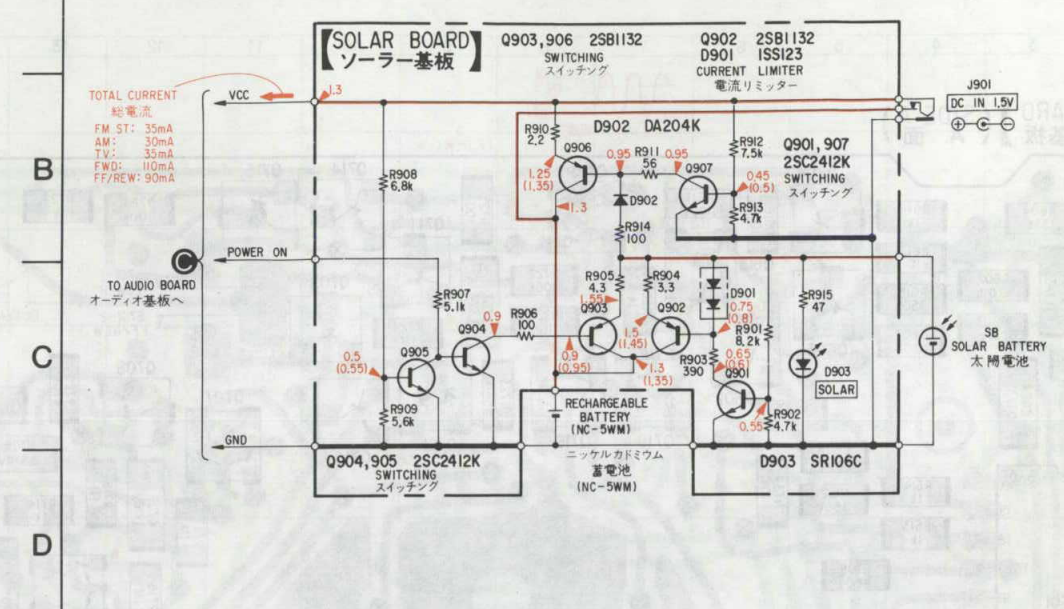


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4-8. SCHEMATIC DIAGRAM

- Solar Section -



Note for SCHEMATIC DIAGRAM
 • All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 • — : B+ bus.

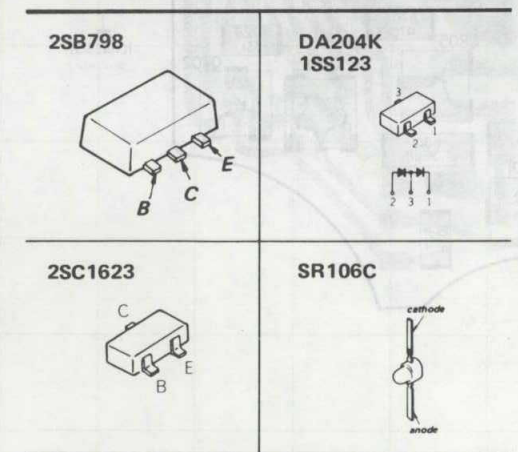
Note for MOUNTING DIAGRAM
 • ● : parts extracted from the conductor side.

Measuring Condition
 Place the unit at 100 mm away from light source (filament light; 100V/100W).
 In this condition, the solar cell is normal when 2V reading is obtained with the solar cell alone.

• Semiconductor Location

Ref. No.	Location
D901	C-5
D902	D-3
D903	C-10
Q901	C-4
Q902	C-6
Q903	C-7
Q904	D-4
Q905	C-4
Q906	D-3
Q907	E-3

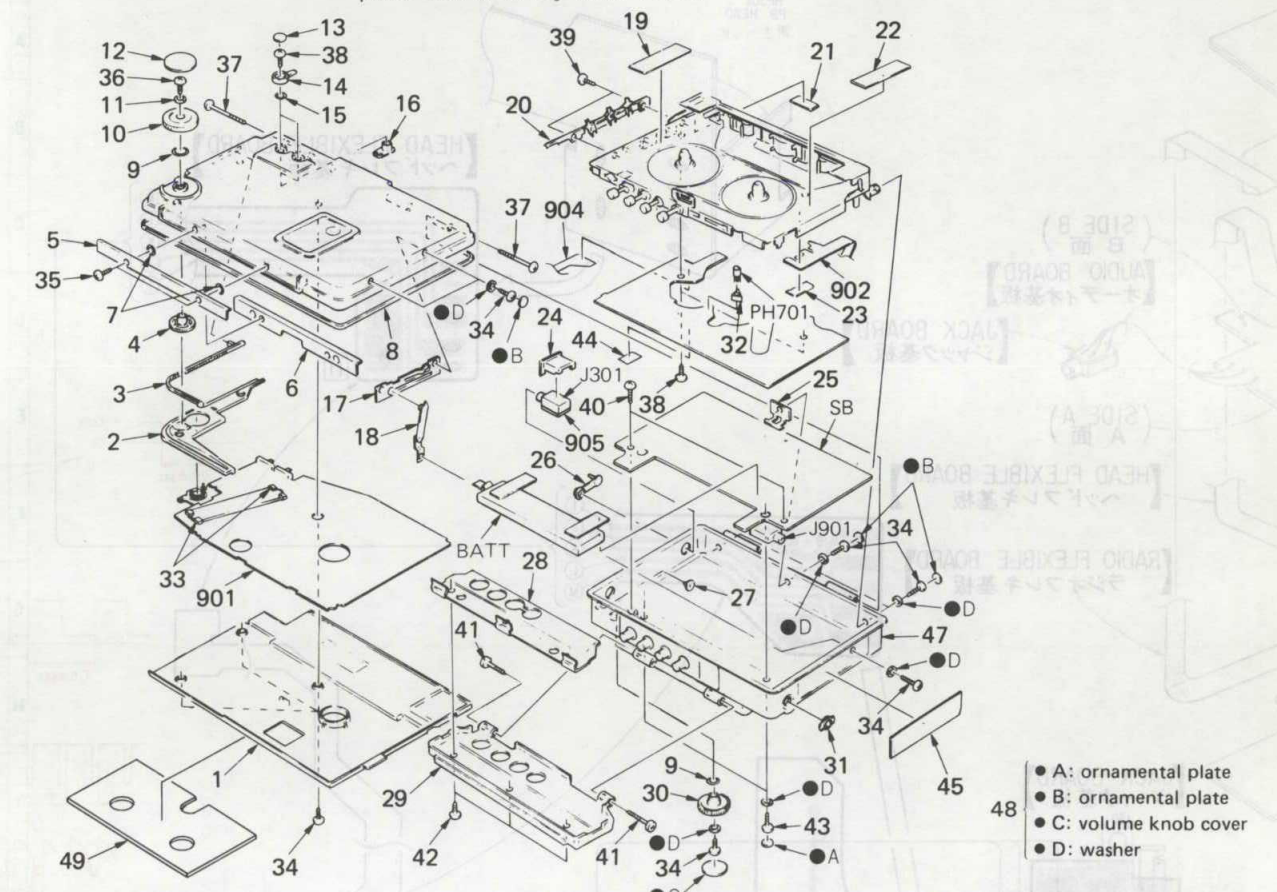
• Semiconductor Lead Layouts



SECTION 5 EXPLODED VIEWS AND PARTS LIST

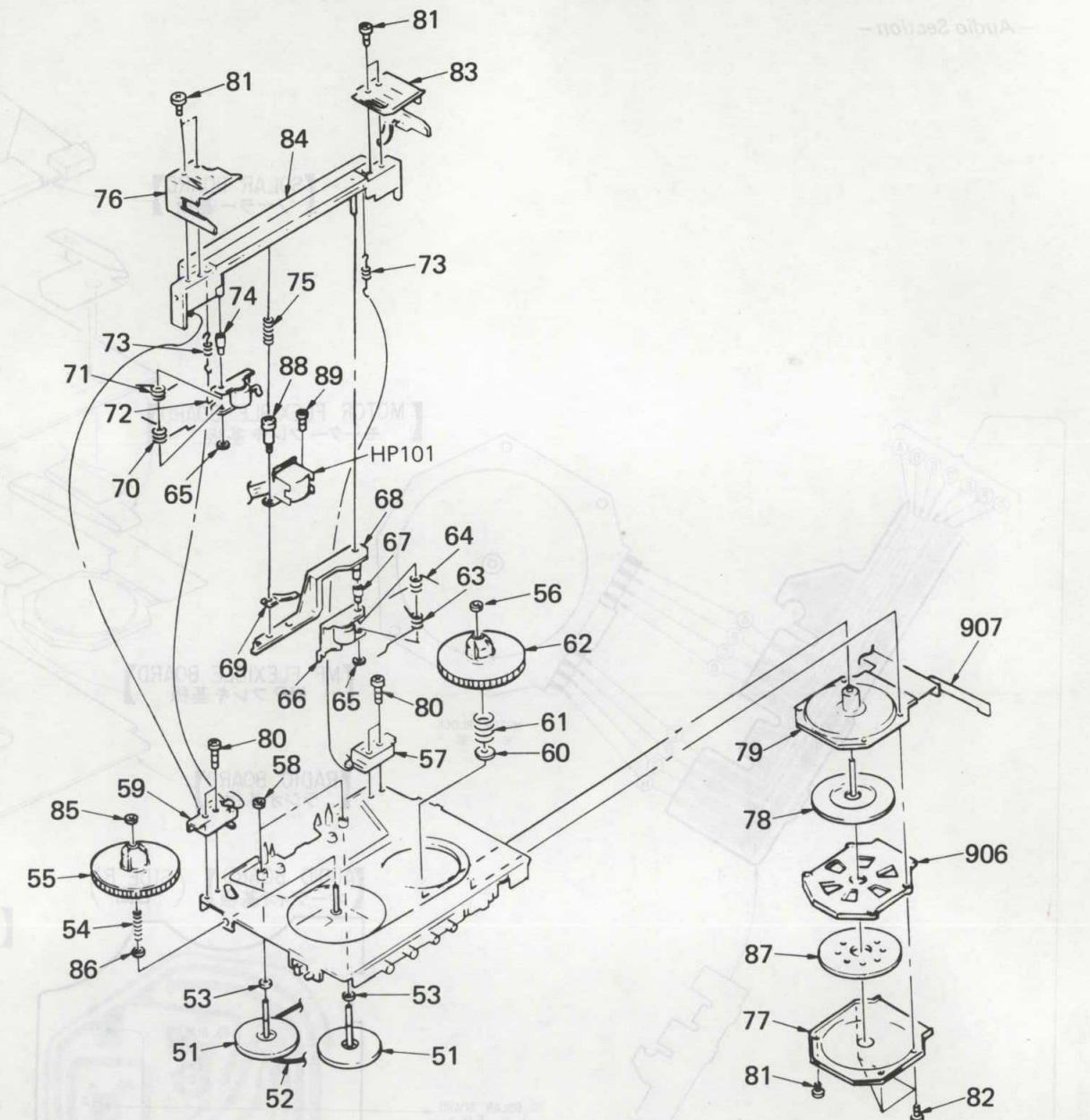
NOTE:
 The mechanical parts with no reference number in the exploded views are not supplied.
 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 The construction parts of an assembled part are indicated with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

5-1.



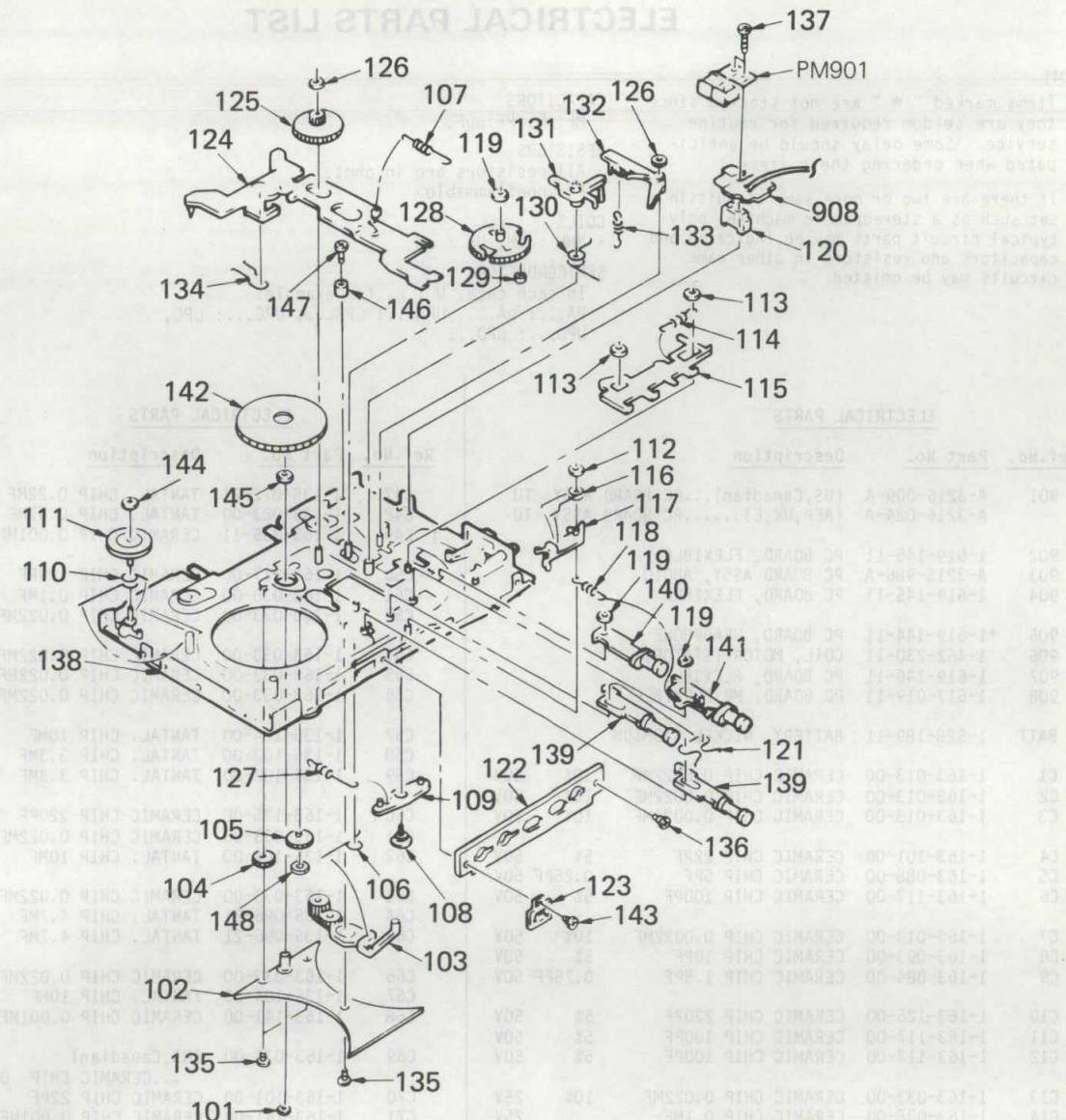
No.	Part No.	Description	Remarks
1	3-334-840-01	PLATE, ORNAMENTAL, TU	
2	3-334-838-01	RACK, POINTER	
3	*3-334-842-01	GUIDE, POINTER	
4	3-334-817-01	GEAR, JOINT, TU	
5	*3-326-121-01	RETAINER (A)	
6	*3-334-816-01	RETAINER (B)	
7	3-326-149-01	PACKING (B)	
8	3-334-815-01	PACKING, CABINET	
9	3-326-573-01	RING (DIA.4.9X DIA.7.1), 0	
10	3-334-836-01	KNOB, TUNING	
11	3-326-135-01	WASHER	
12	3-334-820-01	(WHITE)....ORNAMENT, KNOB, TU	
	3-334-820-11	(YELLOW)....ORNAMENT, KNOB, TU	
13	3-334-814-01	(WHITE)....ORNAMENT, SELECTION KNOB (A)	
	3-334-814-11	(YELLOW)....ORNAMENT, SELECTION KNOB (A)	
14	3-334-813-01	KNOB (A), SELECTION	
15	3-326-560-02	RING (DIA. 2.5XDIA. 4.5), 0	
16	*X-3334-802-1	LEVER ASSY, SELECTION	
17	3-334-839-01	PLATE (C), CLICK	
18	X-3334-801-1	PLATE ASSY, CLICK	
19	3-334-822-01	PLATE, INDICATION, KNOB	
20	X-3334-803-1	KNOB ASSY, SELECTION	
21	3-703-929-01	SPACER, SWITCH	
22	*3-701-999-00	LABEL, SERIAL NUMBER	
23	3-703-929-01	SHEET, INSULATING	
24	3-334-835-01	GUIDE, HP JACK	
25	3-334-818-01	BRACKET, S	
26	3-326-520-01	PACKING, HP JACK	
27	3-326-519-01	WINDOW, LED	
28	*3-334-834-01	BRACKET, BUCKLE	
29	3-334-841-01	BUCKLE	
30	3-334-837-01	KNOB, VOLUME	
31	3-334-812-01	PACKING, DC JACK	
32	3-329-761-01	ADJUSTOR, REFLECTOR	
33	3-329-748-01	HOLDER, ANTENNA	
34	3-703-816-71	SCREW (M1.4X3.0), SPECIAL HEAD	
35	3-326-145-21	SCREW (M1.7X6.8)	
36	3-703-502-31	SCREW	
37	3-326-536-11	SCREW, TAPPING	
38	3-703-816-42	SCREW (M1.4X2.5), SPECIAL HEAD	
39	7-627-850-37	SCREW, PRECISION +P 1.4X1.4	
40	4-887-321-11	SCREW (B1.7)(G), TAPPING	
41	3-334-819-01	SCREW, TAPPING	
42	3-326-146-11	SCREW (M1.4X2.5)	
43	3-703-816-81	SCREW (M1.4X6.0), SPECIAL HEAD	
44	3-485-343-11	CUSHION, CABINET UPPER 10X70.3	
45	3-334-873-01	(US,Canadian)....LABEL, MODEL NUMBER (U)	
46	X-3334-821-1	(YELLOW)....CABINET CASSETTE	
	X-3334-822-1	(WHITE)....CABINET CASSETTE	
47	X-3334-819-1	(WHITE)....CABINET CONTROL	
	X-3334-820-1	(YELLOW)....CABINET CONTROL	
48	X-3334-813-1	(WHITE)....PLATE, ORNAMENTAL	
	X-3334-814-1	(YELLOW)....PLATE, ORNAMENTAL	
49	3-334-936-00	SHEET BLIND, TU	
50	3-334-864-01	WASHER	
901	A-3216-009-A	(US,Canadian)....PC BOARD ASSY, TU	
	A-3216-024-A	(AEP,UK,E)....PC BOARD ASSY, TU	
902	1-619-146-11	PC BOARD, FLEXIBLE	
903	A-3215-986-A	PC BOARD ASSY, AUDIO	
904	1-619-145-11	PC BOARD, FLEXIBLE	
905	*1-619-144-11	PC BOARD, HEADPHONE	
BATT	1-528-189-11	BATTERY, NICKEL CADMIUM	
J301	1-563-298-11	JACK (SMALL TYPE) (DIA. 3.5)	
901	1-563-299-11	JACK, EXTERNAL POWER	
PH701	8-719-751-43	DIODE NJL5141E-AB	
SB	1-528-190-12	BATTERY	

5-2.



No.	Part No.	Description	Remarks
51	X-3329-670-1	FLYWHEEL ASSY (N)	
52	3-329-695-01	BELT	
53	3-321-394-21	WASHER	
54	3-331-013-01	SPRING, COMPRESSION	
55	X-3329-624-1	GEAR ASSY, T REEL	
56	3-315-384-11	WASHER, STOPPER	
57	3-329-737-01	GUIDE (LEFT), HOLDER	
58	3-331-007-01	WASHER	
59	3-329-736-01	GUIDE (RIGHT), HOLDER	
60	3-320-354-01	WASHER	
61	3-331-014-01	SPRING, COMPRESSION	
62	3-329-729-01	GEAR, SUPPLY REEL	
63	3-329-641-01	SPRING (R)	
64	3-329-643-01	SPRING (R)	
65	3-331-036-01	WASHER	
	3-331-036-11	WASHER	
66	X-3329-602-1	PINCH LEVER (R) ASSY	
67	3-331-027-01	COLLAR (R), PINCH LEVER	
68	3-329-710-01	LEVER, HEAD	
69	3-329-644-01	SPRING	
70	3-329-640-01	SPRING (N)	
71	3-329-642-01	SPRING (N)	
72	X-3329-601-1	PINCH LEVER (N) ASSY	
73	3-331-012-01	SPRING (HOLDER), TENSION	
74	3-329-637-01	COLLAR, PINCH LEVER	
75	3-331-038-01	SPRING, COMPRESSION	
76	3-329-714-01	HOLDER (RIGHT), CASSETTE	
77	3-329-648-01	PLATE, SHIELD, MOTOR	
78	A-3133-236-A	WHEEL BLOCK ASSY, MOTOR	
79	X-3329-625-1	CHASSIS ASSY, MOTOR	
80	7-627-552-48	SCREW, PRECISION +P 1.7X4	
81	7-627-551-98	PRECISION SCREW +P 1.4X2.2	
82	3-703-816-91	SCREW (M1.4X2.8), SPECIAL HEAD	
83	X-3334-809-1	HOLDER (L) ASSY, CASSETTE	
84	X-3329-644-1	HOLDER (T) ASSY	
85	3-578-242-21	WASHER	
86	3-315-415-21	WASHER (1.5-2.3)	
87	3-333-173-01	PLATE (S), HYSTERESIS	
88	3-331-082-01	SCREW, HD	
89	3-331-076-01	SCREW, AZIMUTH	
906	1-462-230-11	COIL, MOTOR (STATOR)	
907	1-619-146-11	PC BOARD, FLEXIBLE	
HP101	1-543-310-11	HEAD, MAGNETIC (PLAYBACK)	

5-3.



No.	Part No.	Description	Remarks
101	3-331-007-01	WASHER	
102	X-3329-618-1	COVER ASSY, REEL	
103	X-3329-626-1	LEVER (B) ASSY, F.R	
104	3-329-689-01	GEAR (B), T	
105	3-329-688-01	GEAR (A), T	
106	3-329-699-01	SPRING	
107	3-331-017-01	SPRING, TENSION	
108	3-331-056-01	SHAFT, DRIVING LEVER (B)	
109	X-3329-617-1	LEVER (B) ASSY, DRIVING	
110	3-329-701-01	SPRING	
111	3-329-686-01	WHEEL, REVERSE	
112	3-331-036-11	WASHER	
113	3-578-224-00	WASHER	
114	3-331-009-01	SPRING (LOCK LEVER), TENSION	
115	3-329-731-01	LEVER, LOCK	
116	3-329-702-01	SPRING	
117	3-329-692-05	LEVER, SW	
118	3-331-010-01	SPRING (STOP LEVER), TENSION	
119	3-578-242-21	WASHER	
120	*3-331-041-01	BRACKET, P	
121	3-331-016-01	SPRING	
122	*3-329-734-01	HOLDER, BUTTON	
123	3-334-863-01	SPRING	
124	X-3329-616-1	LEVER (A) ASSY, DRIVING	
125	3-329-687-01	GEAR, DRIVING	

No.	Part No.	Description	Remarks
126	3-315-384-11	WASHER, STOPPER	
127	3-331-018-01	SPRING, TENSION	
128	3-329-730-01	GEAR, CAM	
129	3-329-693-01	COLLAR, CAM GEAR	
130	3-329-700-01	SPRING	
131	3-329-733-01	LEVER (A), SHUT-OFF	
132	X-3329-615-1	LEVER ASSY, TRIGGER	
133	3-331-011-01	SPRING (TRIGGER LEVER), TENSION	
134	3-329-698-01	SPRING (B)	
135	3-331-047-01	SCREW (M1.4X1.4), SPECIAL HEAD	
136	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
137	7-627-551-37	SCREW, PRECISION +P 1.4X5	
138	X-3334-805-1	CHASSIS COMPLETE ASSY	
139	X-3334-808-1	LEVER (A) ASSY, F.R	
140	X-3334-806-1	LEVER ASSY, PLAY	
141	X-3334-807-1	LEVER ASSY, STOP	
142	X-3329-628-1	PULLEY COMPLETE ASSY, MIDWAY	
143	3-703-816-01	SCREW (M1.4X2.0), SPECIAL HEAD	
144	3-331-036-01	WASHER	
145	3-321-394-21	WASHER	
146	3-334-847-01	SELECTION COLLAR, NR	
147	3-331-008-01	SCREW (M1.4X1.1) (1), PRECISION	
908	1-617-019-11	PC BOARD, MP FLEXIBLE	
PM901	1-454-406-11	SOLENOID, PLUNGER	

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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: μ F, PF: μ P.F.

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...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	A-3216-009-A	(US,Canadian)...PC BOARD ASSY, TU			
	A-3216-024-A	(AEP,UK,E).....PC BOARD ASSY, TU			
902	1-619-146-11	PC BOARD, FLEXIBLE			
903	A-3215-986-A	PC BOARD ASSY, AUDIO			
904	1-619-145-11	PC BOARD, FLEXIBLE			
905	*1-619-144-11	PC BOARD, HEADPHONE			
906	1-462-230-11	COIL, MOTOR (STATOR)			
907	1-619-146-11	PC BOARD, FLEXIBLE			
908	1-617-019-11	PC BOARD, MP FLEXIBLE			
BATT	1-528-189-11	BATTERY, NICKEL CADMIUM			
C1	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C2	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C3	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C4	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C5	1-163-088-00	CERAMIC CHIP 5PF	0.25PF	50V	
C6	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C7	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C8	1-163-093-00	CERAMIC CHIP 10PF	5%	50V	
C9	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF	50V	
C10	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	
C11	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C12	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C13	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C14	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C15	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C20	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C25	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C28	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C29	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C30	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C31	1-163-137-00	CERAMIC CHIP 680PF	10%	50V	
C32	1-163-081-00	CERAMIC CHIP 0.22MF		25V	
C33	1-163-257-00	CERAMIC CHIP 180PF	5%	50V	
C34	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C35	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C36	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C37	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C38	1-163-267-00	CERAMIC CHIP 470PF	5%	50V	
C39	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C40	1-163-093-00	CERAMIC CHIP 10PF	5%	50V	
C41	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C42	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C43	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C44	1-163-257-00	CERAMIC CHIP 180PF	5%	50V	
C45	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C46	1-135-083-00	TANTAL. CHIP 0.47MF	10%	25V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C47	1-135-072-21	TANTAL. CHIP 0.22MF	10%	35V	
C48	1-135-083-00	TANTAL. CHIP 0.47MF	10%	25V	
C49	1-163-335-11	CERAMIC CHIP 0.001MF	5%	50V	
C50	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C51	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C52	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C53	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C55	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C56	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C57	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C58	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C59	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C60	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	
C61	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C62	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C63	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C64	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C65	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C66	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C67	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C68	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C69	1-163-033-00	(US,Canadian) ...CERAMIC CHIP 0.022MF	10%	25V	
C70	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C71	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C72	1-163-041-00	CERAMIC CHIP 330PF	10%	50V	
C74	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C75	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C76	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C77	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	
C78	1-163-041-00	CERAMIC CHIP 330PF	10%	50V	
C79	1-163-129-00	(AEP,UK,E)...CARAMIC 330PF	10%	50V	
	1-135-103-00	(US,Canadian NEW) ...TANTAL. CHIP 3.3MF	10%	4V	
C101	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C102	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C103	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C104	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C105	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C106	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V	
C107	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V	
C108	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	
C109	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V	
C110	1-163-075-00	CERAMIC CHIP 0.047MF	10%	25V	
C111	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V	
C112	1-163-017-00	CERAMIC CHIP 0.0047MF	5%	50V	
C113	1-163-074-00	CERAMIC CHIP 0.033MF	5%	25V	
C114	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V	

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Ref.No.	Part No.	Description			
C116	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C117	1-163-081-00	CERAMIC CHIP 0.22MF		25V	
C118	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C119	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C201	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C202	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C203	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C204	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C205	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
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	
C216	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C217	1-163-081-00	CERAMIC CHIP 0.22MF		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		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	1-135-073-00	TANTAL. CHIP 0.33MF	10%	35V	
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			

Ref.No.	Part No.	Description			
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			
D8	8-719-106-53	DIODE RD10M-B2			
D9	8-719-100-05	DIODE 1S2837			
D11	8-719-101-23	DIODE 1SS123			
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			
D901	8-719-101-23	DIODE 1SS123			
D902	8-719-914-42	DIODE DA204K			
D903	8-719-100-06	DIODE SR106C (LED)			
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	8-759-802-80	IC LA4535M			
IC601	8-752-012-32	IC CX20123			
J301	1-563-298-11	JACK (SMALL TYPE)(DIA. 3.5)			
J901	1-563-299-11	JACK, EXTERNAL POWER			
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			
Q1	8-729-201-87	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	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q9	8-729-903-10	TRANSISTOR FMW1			
Q10	8-729-159-64	TRANSISTOR 2SD596			
Q11	8-729-271-23	TRANSISTOR 2SC2712			
Q12	8-729-100-76	TRANSISTOR 2SA812			
Q13	8-729-271-23	(US,Canadian NEW)...TRANSISTOR 2SC2712			
Q301	8-729-271-23	TRANSISTOR 2SC2712			
Q303	8-729-100-76	TRANSISTOR 2SA812			
Q601	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q602	8-729-271-23	TRANSISTOR 2SC2712			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q603	8-729-271-23	TRANSISTOR 2SC2712			
Q604	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q701	8-729-903-10	TRANSISTOR FWM1			
Q702	8-729-271-23	TRANSISTOR 2SC2712			
Q703	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q704	8-729-271-23	TRANSISTOR 2SC2712			
Q705	8-729-900-51	TRANSISTOR DTA114TK			
Q706	8-729-903-10	TRANSISTOR FWM1			
Q707	8-729-902-96	TRANSISTOR FMS1			
Q708	8-729-100-76	TRANSISTOR 2SA812			
Q709	8-729-900-51	TRANSISTOR DTA114TK			
Q710	8-729-902-99	TRANSISTOR DTC114TK			
Q711	8-729-900-51	TRANSISTOR DTA114TK			
Q713	8-729-902-93	TRANSISTOR FMG4			
Q714	8-729-271-23	TRANSISTOR 2SC2712			
Q715	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q716	8-729-902-93	TRANSISTOR FMG4			
Q718	8-729-100-76	TRANSISTOR 2SA812			
Q719	8-729-902-93	TRANSISTOR FMG4			
Q801	8-729-903-10	TRANSISTOR FWM1			
Q802	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q803	8-729-271-23	TRANSISTOR 2SC2712			
Q804	8-729-159-64	TRANSISTOR 2SD596			
Q805	8-729-271-23	TRANSISTOR 2SC2712			
Q806	8-729-162-44	TRANSISTOR 2SB624-BV4			
Q901	8-729-271-23	TRANSISTOR 2SC1623			
Q902	8-729-101-07	TRANSISTOR 2SB798			
Q903	8-729-101-07	TRANSISTOR 2SB798			
Q904	8-729-100-66	TRANSISTOR 2SC1623			
Q905	8-729-100-66	TRANSISTOR 2SC1623			
Q906	8-729-101-07	TRANSISTOR 2SB798			
Q907	8-729-100-66	TRANSISTOR 2SC1623			
R1	1-216-073-00	METAL CHIP 10K 5%	1/10W		
R2	1-216-013-00	METAL CHIP 33 5%	1/10W		
R3	1-216-069-00	(US,Canadian)..METAL CHIP 6.8K 5%	1/10W		
R4	1-216-025-00	(US,Canadian)..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		
R39	1-216-049-00	(AEP,UK,E)...METAL CHIP 1.0K 5%	1/10W		
R40	1-216-073-00	(AEP,UK,E)...METAL CHIP 10K 5%	1/10W		
R42	1-216-013-00	METAL CHIP 33 5%	1/10W		

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
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		
R54	1-216-093-00	(US,Canadian NEW) ...METAL CHIP 68K 5%	1/10W		
R55	1-216-037-00	(US,Canadian NEW) ...METAL CHIP 330 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		
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	1-216-061-00	METAL CHIP 3.3K 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	1-216-061-00	METAL CHIP 3.3K 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		
R307	1-216-097-00	METAL CHIP 100K 5%	1/10W		
R308	1-216-085-00	METAL CHIP 33K 5%	1/10W		
R309	1-216-055-00	METAL CHIP 1.8K 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	1-216-101-00	METAL CHIP 150K 5%	1/10W		
R313	1-216-113-00	METAL CHIP 470K 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		

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
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
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			

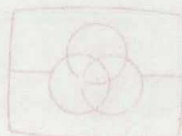
ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV4	1-237-245-21	RES, VAR, CARBON 100K (TUNING)
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	1-230-578-11	RES, VAR, CARBON 10K/10K (VOL)
RV601	1-237-004-11	RES, ADJ, METAL GLAZE 10K
S1	1-570-402-11	SWITCH, SLIDE (FUNCTION)
S2	1-570-397-11	SWITCH, SLIDE (BAND)
S301	1-570-395-11	SWITCH, LEAF (FWD/REV)
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 (DIRECTION)
SB	1-528-190-12	BATTERY
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

No.	Part No.	Description
151	3-795-748-21	(US)...SAFETY INSTRUCTIONS, HEADPHONE
152	3-765-346-11	(AEP,UK,E).....MANUAL, INSTRUCTION
	3-765-346-21	(US,Canadian)...MANUAL, INSTRUCTION
	3-765-346-31	(Canadian).....MANUAL, INSTRUCTION
	3-765-346-41	(AEP).....MANUAL, INSTRUCTION
153	3-334-867-01	SPACER
154	8-952-265-90	(E).....HEADPHONE MDR-E215/Y SET
	8-952-265-91	(E).....HEADPHONE MDR-E215/W SET
	8-952-267-90	(US,Canadian,AEP,UK) ...HEADPHONE MDR-A15L/Y SET
	8-952-267-91	(AEP,UK)...HEADPHONE MDR-A15L/W SET
155	3-334-870-01	(US).....INDIVIDUAL CARTON
	3-334-872-01	(Canadian,AEP)...INDIVIDUAL CARTON
	3-334-877-01	(E).....INDIVIDUAL CARTON
	3-334-878-01	(UK).....INDIVIDUAL CARTON
156	3-334-856-01	CUSHION (B)
157	3-334-858-01	CUSHION (A)
158	1-550-242-21	(US:YELLOW)...CASE, BATTERY

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ELECTRICAL PARTS

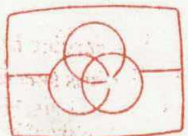
Ref. No.	Part No.	Description
1801	1-647-864-11	TRANSFORMER, DC-DC CONVERTER
T3	1-648-202-11	TRANSFORMER, DC-DC CONVERTER
T2	1-408-171-11	COIL
T1	1-408-883-11	IFT
28	1-628-180-12	BATTERY
2702	1-670-288-11	SWITCH, LEAF (DIRECTION)
2701	1-670-289-11	SWITCH, LEAF (POWER/FREQUENCY)
2703	1-670-287-11	SWITCH, SLIDE (LOCK BY MR.)
2302	1-670-387-11	SWITCH, SLIDE (TAP)
2301	1-620-282-11	SWITCH, LEAF (TWO-WAY)
22	1-670-402-11	SWITCH, SLIDE (FUNCTION)
RV801	1-537-004-11	RES. ADJ. METAL GLAZE 10K
RV301	1-530-878-11	RES. VAR. CARBON 10K/10W (VOL)
RV501	1-577-003-11	RES. ADJ. METAL GLAZE 2.5K
RV401	1-537-002-11	RES. ADJ. METAL GLAZE 2.5K
RV201	1-537-005-11	RES. ADJ. METAL GLAZE 2.5K
RV1	1-537-082-21	RES. VAR. CARBON 10K (TUNING)

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
188	1-680-242-21	(US/FR/DE) CASE, BATTERY
187	3-324-828-01	CUSHION (A)
186	3-324-828-01	CUSHION (B)
185	3-324-878-01 (UK)	INDIVIDUAL CARTON
184	3-324-877-01 (E)	INDIVIDUAL CARTON
183	3-324-875-01 (Canada)	INDIVIDUAL CARTON
182	3-324-870-01 (US)	INDIVIDUAL CARTON
181	3-782-242-91 (AEP, UK)	HEADPHONE MR-AL15/W SET
180	3-782-242-90 (US/Canada)	HEADPHONE MR-AL15/W SET
179	3-782-242-90 (E)	HEADPHONE MR-AL15/W SET
178	3-782-242-90 (UK)	HEADPHONE MR-AL15/W SET
177	3-782-242-90 (Canada)	HEADPHONE MR-AL15/W SET
176	3-782-242-91 (AEP, UK)	MANUAL, INSTRUCTION
175	3-782-242-91 (Canada)	MANUAL, INSTRUCTION
174	3-782-242-91 (US/Canada)	MANUAL, INSTRUCTION
173	3-782-242-91 (AEP, UK)	MANUAL, INSTRUCTION
172	3-782-242-91 (Canada)	MANUAL, INSTRUCTION
171	3-782-242-91 (US)	SAFETY INSTRUCTIONS, HEADPHONE

ELECTRICAL PARTS

Ref. No.	Part No.	Description
RV3	1-530-991-11	RES. ADJ. METAL GLAZE 5K
RV2	1-530-991-11	RES. ADJ. METAL GLAZE 5K
RV1	1-530-989-11	RES. ADJ. METAL GLAZE 4.7K
RV810	1-518-007-00	METAL CHIP
RV809	1-518-028-00	METAL CHIP
RV808	1-518-113-00	METAL CHIP
RV807	1-518-082-00	METAL CHIP
RV806	1-518-083-00	METAL CHIP
RV805	1-518-083-00	METAL CHIP
RV804	1-518-099-00	METAL CHIP
RV803	1-518-073-00	METAL CHIP
RV802	1-518-073-00	METAL CHIP
RV801	1-518-073-00	METAL CHIP
RV710	1-518-049-00	METAL CHIP
RV709	1-518-049-00	METAL CHIP
RV708	1-518-049-00	METAL CHIP
RV707	1-518-049-00	METAL CHIP
RV706	1-518-049-00	METAL CHIP
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RV704	1-518-049-00	METAL CHIP
RV703	1-518-049-00	METAL CHIP
RV702	1-518-049-00	METAL CHIP
RV701	1-518-049-00	METAL CHIP
RV610	1-518-089-00	METAL CHIP
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RV601	1-518-089-00	METAL CHIP
RV510	1-518-121-00	METAL CHIP
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RV410	1-518-093-00	METAL CHIP
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RV408	1-518-093-00	METAL CHIP
RV407	1-518-093-00	METAL CHIP
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RV104	1-518-093-00	METAL CHIP
RV103	1-518-093-00	METAL CHIP
RV102	1-518-093-00	METAL CHIP
RV101	1-518-093-00	METAL CHIP



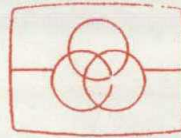
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CORRECTION-2

Please correct your service manual.

: Corrected portions

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
37	901	A-3216-009-A	(US, Canadian)PC BOARD ASSY, TU	A-3215-986-A	(US, Canadian)PC BOARD ASSY, TU
	902	1-619-146-11	PC BOARD, FLEXIBLE	1-619-146-11	PC BOARD, FLEXIBLE (MOTOR)
	903	A-3215-986-A	PC BOARD ASSY, Audio	A-3216-009-A	PC BOARD ASSY, Audio
	904	1-619-145-11	PC BOARD, FLEXIBLE	1-619-145-11	PC BOARD, FLEXIBLE (RADIO)
	SB	1-528-190-12	BATTERY	1-528-190-11	SOLAR BOARD (Including Solar Battery)
38	907	1-619-146-11	PC BOARD, FLEXIBLE	Ref. No. has been changed from No. 907 to 902.	
40	907	1-619-146-11		deletion	

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