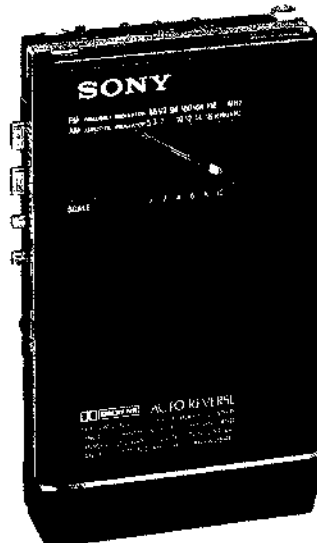



WM-F100 III / F103

SERVICE MANUAL

US Model
 Canadian Model
 WM-F100 III
 AEP Model
 E Model
 WM-F103



SEE ADDITIONAL INFORMATION

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Model Name Using Similar Mechanism	WM-F200 II / F203
Tape Transport Mechanism Type	MF-WMF102-01

Cassette player section

Tape track
 4-track 2 channel stereo
 Fast winding time
 Approx. 3 min. 20 sec. with Sony C-60 cassette
 Frequency response (DOLBY NR off)
 40—15,000Hz

Radio section

Frequency range
 FM: 87.6—108MHz
 AM: 530—1,605kHz
 Antennas
 FM: Headphone cord antenna
 AM: Built-in ferrite bar antenna

General

Power output
 4mW+4mW at DC operation (at 10% harmonic distortion)
 Power requirements
 1.5V DC
 Size AA (R6) battery
 Rechargeable battery
 DC IN 1.5V jack accepts:
 Sony AC-D1M AC power adaptor (optional) for use with 120 V AC, 60 Hz
 Sony EBP-10 battery case (optional) for use on two size AA (R6) batteries
 Sony DCC-70 car battery cord (optional) for use with 12 V car battery
 Dimensions
 not incl. projecting parts and controls
 Approx. 69.8 x 110.8 x 21.5 mm (w/h/d)
 (2 3/4 x 4 3/8 x 7/8 inches)
 with rechargeable battery case attached
 Approx. 69.8 x 119.4 x 21.5 mm (w/h/d)
 (2 3/4 x 4 3/4 x 7/8 inches)
 with battery case attached

Weight

Approx. 200 g (7.1 oz) incl. rechargeable battery case and rechargeable battery (or battery and battery case) not incl. other accessories

Accessories supplied

Rechargeable battery (1) Battery charger (1)
 Stereo headphones (open-air type, 1)
 Rechargeable battery case (attached to the unit, 1)
 Battery case (1) Carrying case (1)

Optional Accessory

AC power adaptor AC-D1M
 Car battery cord DCC-70
 Battery case EBP-10
 Rechargeable battery NC-5WM, NC-6WM

Note: Use only the recommended AC power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



Polarity of the Sony plug

FEATURES

- Auto-reverse function changes the tape playback direction without turning the cassette over.
- Built-in FM/AM tuner.
- Dolby NR* system reduces tape hiss noise during playback.
- TAPE selector for optimum playback with standard tapes as well as high-performance metal tapes.

FM/AM STEREO CASSETTE PLAYER
SONY®



SERVICING NOTE

Flexible Circuit Board Repairing

Keep the temperature of the soldering iron around 270°C during repairing.

- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

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

TABLE OF CONTENTS

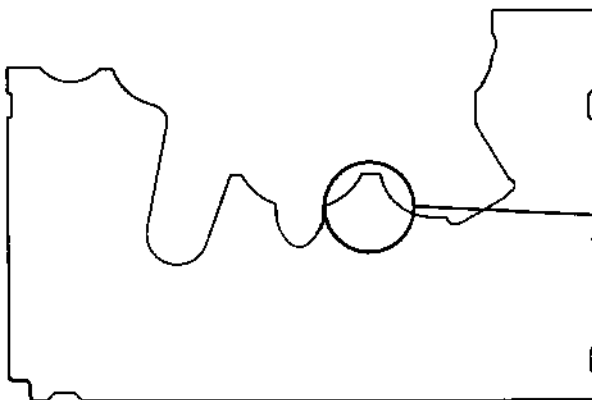
<u>Section</u>	<u>Title</u>	<u>Page</u>
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Features		1
Servicing Note		2
SECTION 1. DISASSEMBLY		3-5
SECTION 2. MECHANICAL ADJUSTMENTS		6-7
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SECTION 4. DIAGRAMS		
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4-5.	Wiring Diagram	15-16
4-6.	Schematic Diagram (audio section)	17-18
SECTION 5. EXPLODED VIEWS		19-21
SECTION 6. ELECTRICAL PARTS LIST		22-25

SERVICING NOTE

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

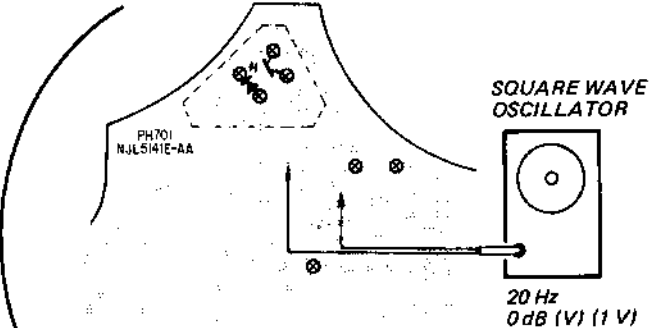
It cannot be detected when the audio board is removed, because PH701 is mounted on the audio board.

— Audio board (side B) —



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

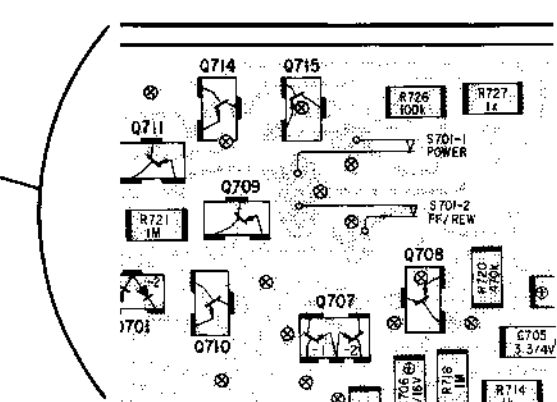
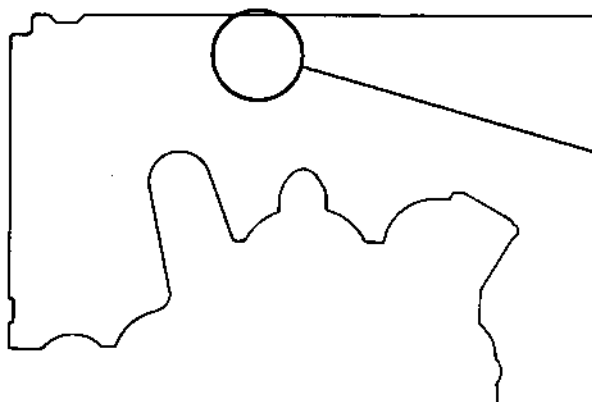
Operation check can be done by the method shown below even when the audio board is removed.



- For 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.

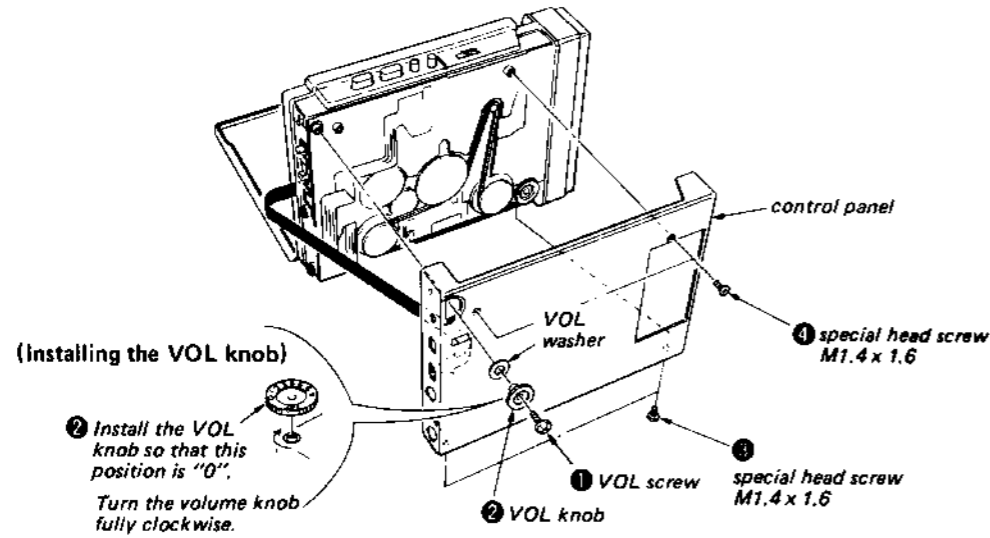
— Audio board (side A) —



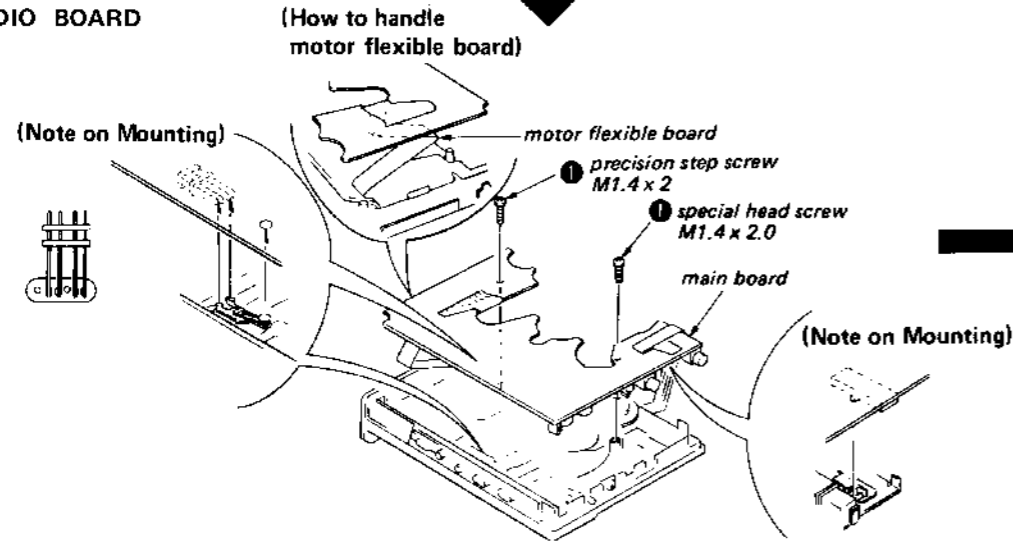
**SECTION 1
DISASSEMBLY**

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

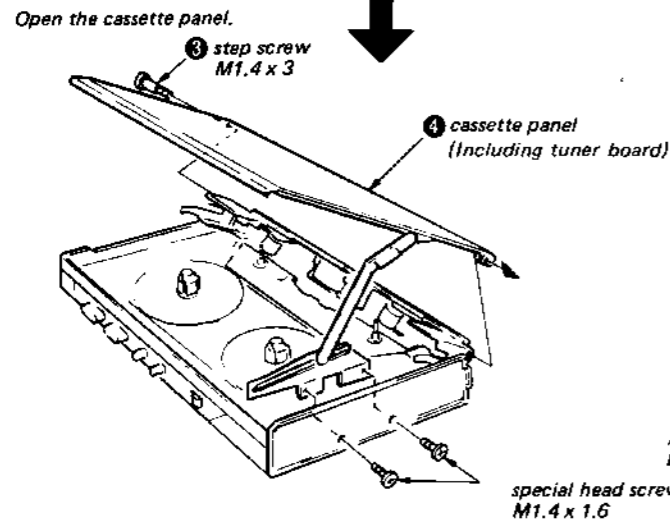
CONTROL PANEL



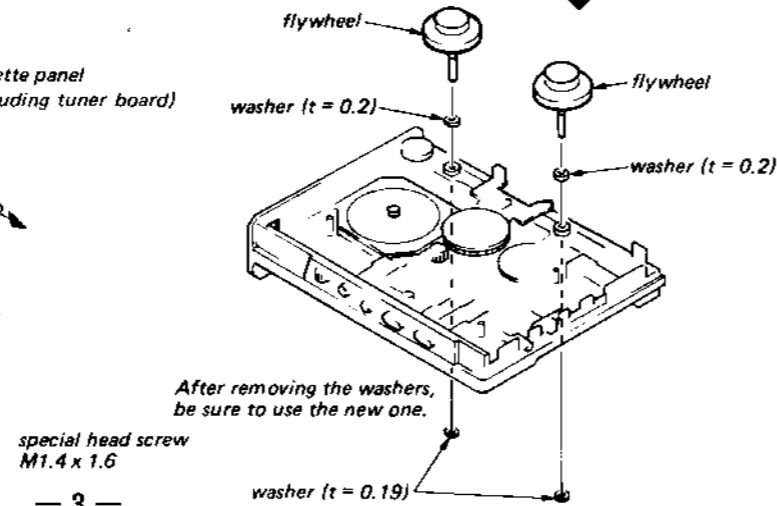
AUDIO BOARD



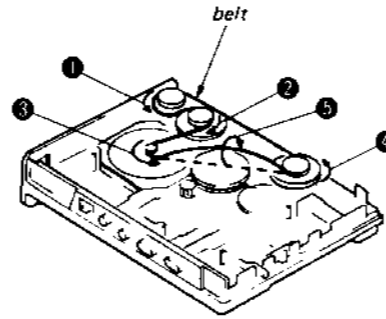
CASSETTE PANEL



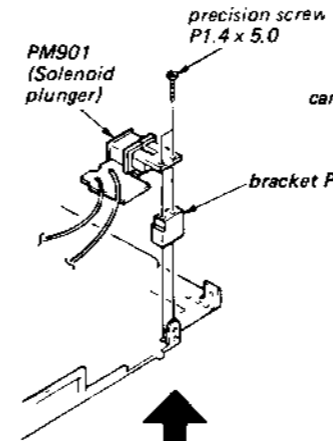
FLYWHEEL



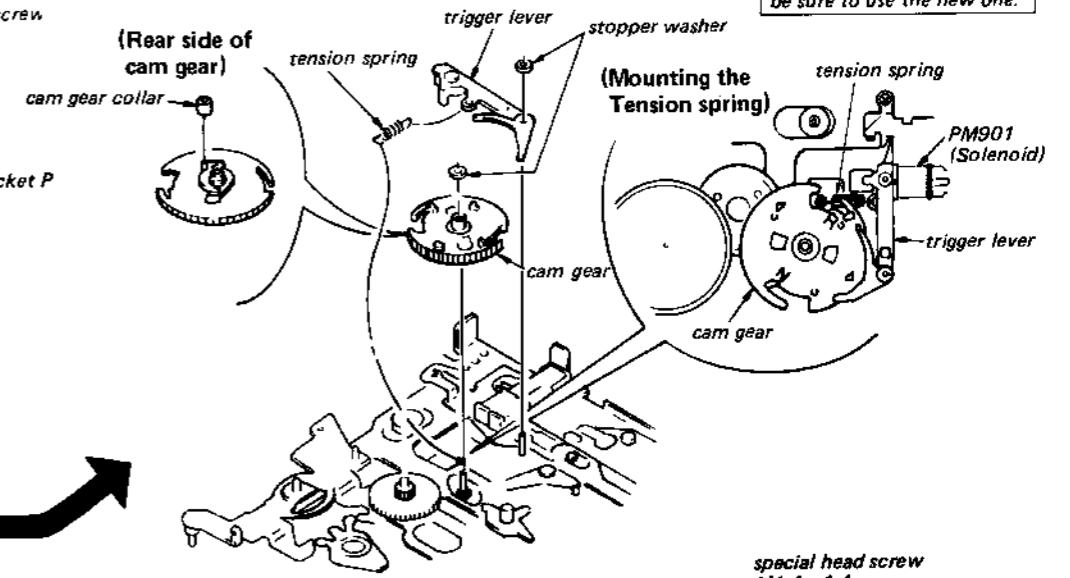
INSTALLING THE BELT



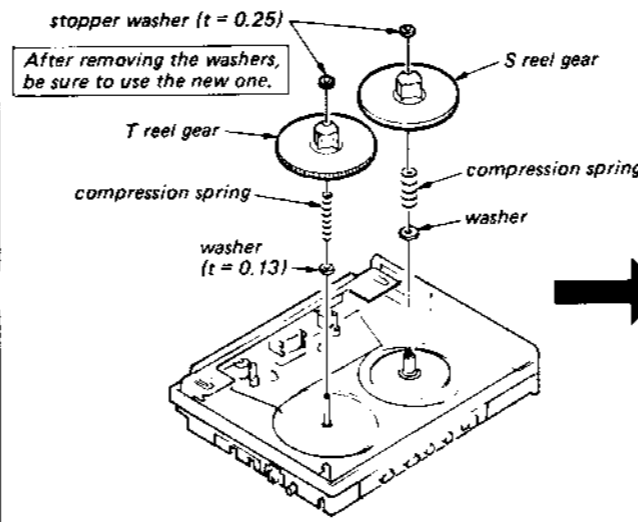
SOLENOID PLUNGER



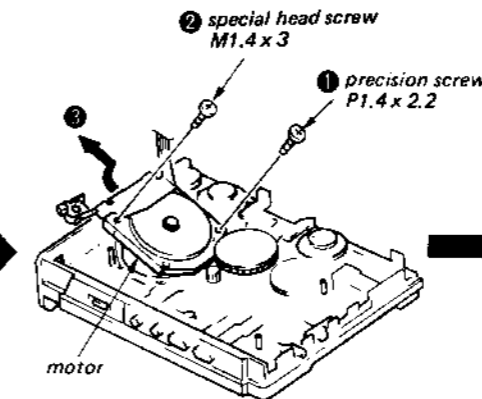
TRIGGER LEVER, CAM GEAR



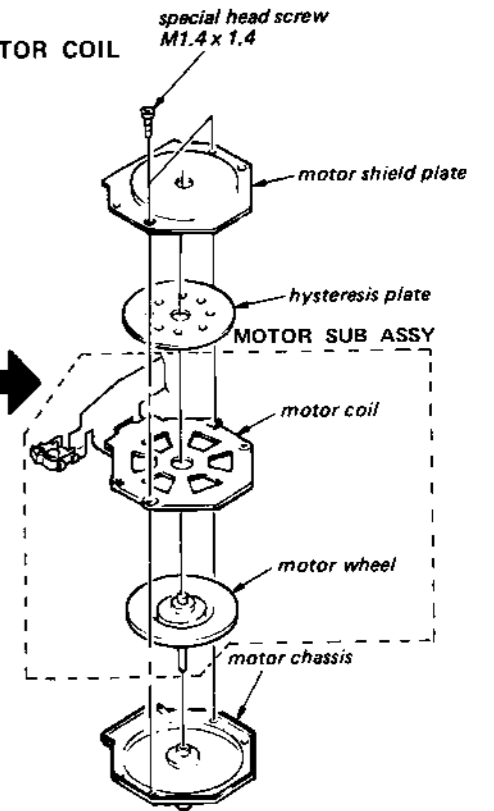
REEL GEAR



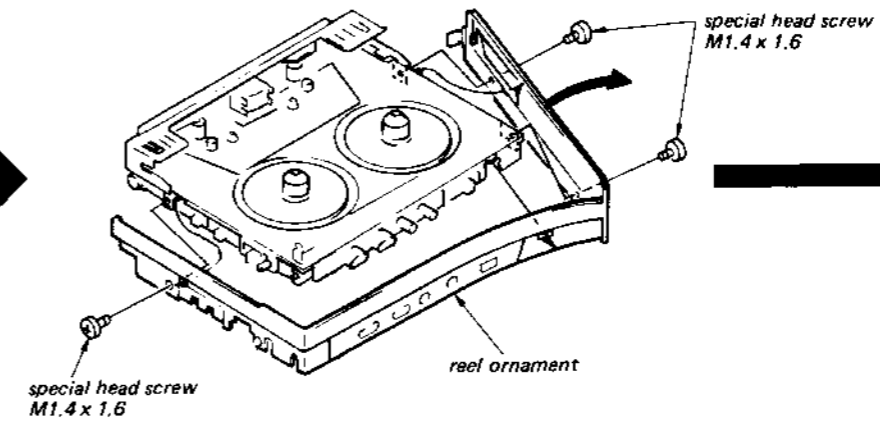
MOTOR



MOTOR COIL

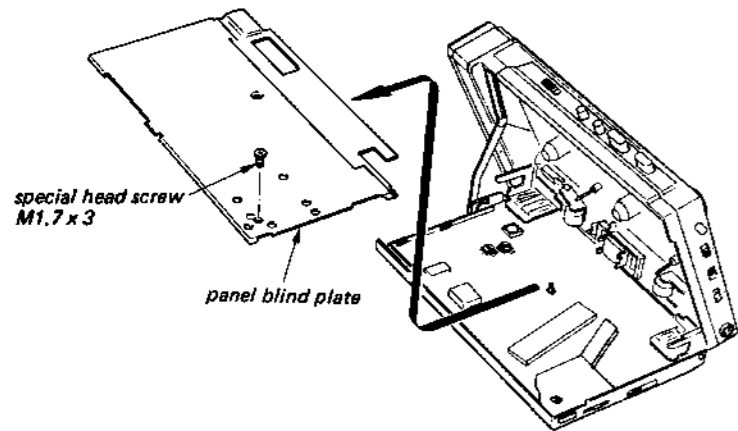


REEL ORNAMENT

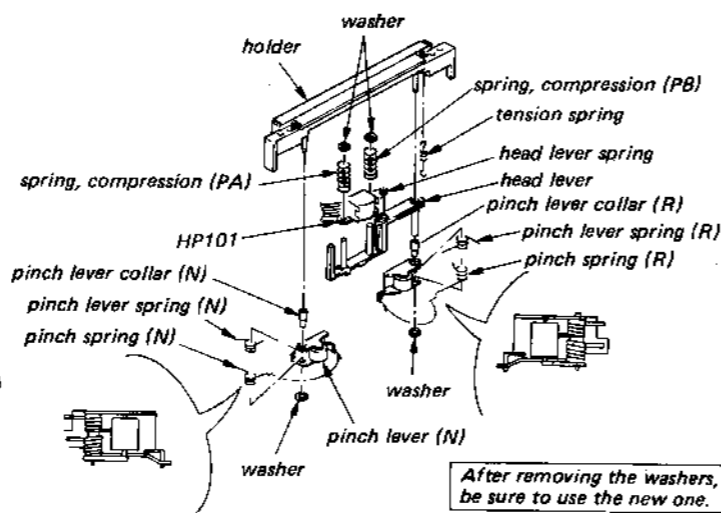


SECTION 2 MECHANICAL ADJUSTMENTS

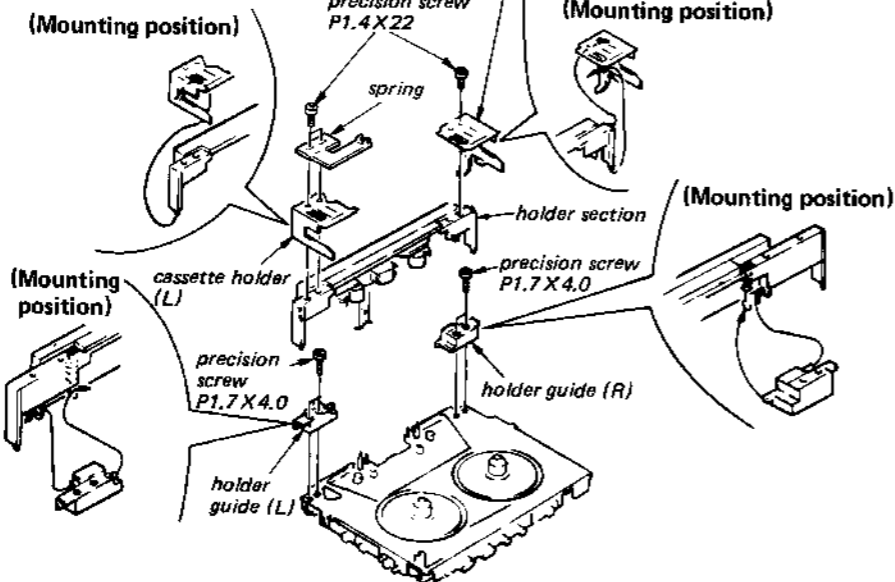
TUNER BOARD



HEAD AND PINCH ROLLER



HOLDER

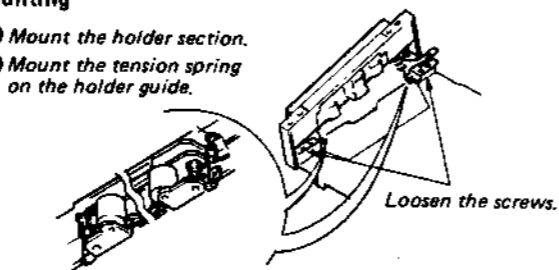


Removal

- 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.

MECHANICAL ADJUSTMENTS AND MEASUREMENT

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
 playback head rubber belts
 capstan idlers
 pinch roller
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. 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

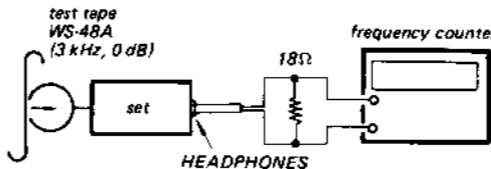
Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g more than 17.6 oz
REV	CQ-403R	more than 50 g more than 17.6 oz

Standard Playback Level:

1. Standard test tape: P-4-L300 (315 Hz, 0 dB)
2. Set the VOL control to the position where -20 dB (77.0 mV) is obtained across 18 Ω load at PHONES jack.

Tape Speed Adjustment

Procedure:



1. Play back WS-48A (Tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 Hz (±5 Hz).
2. 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.

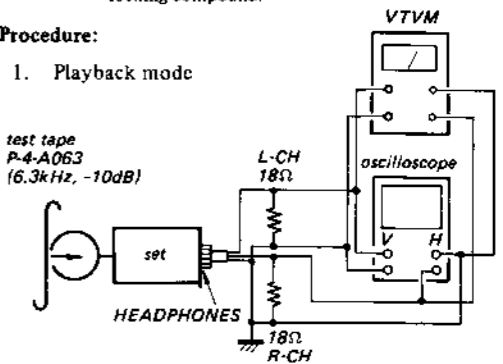
Playback Head Azimuth Adjustment

Note: 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.

Procedure:

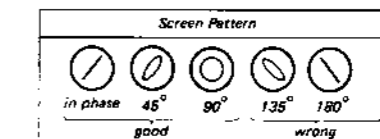
1. Playback mode

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



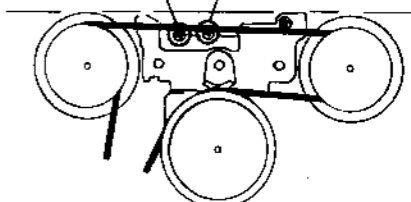
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.

3. Phase Check

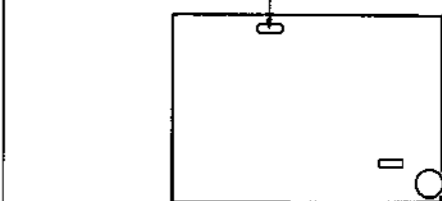


Adjustment Location:

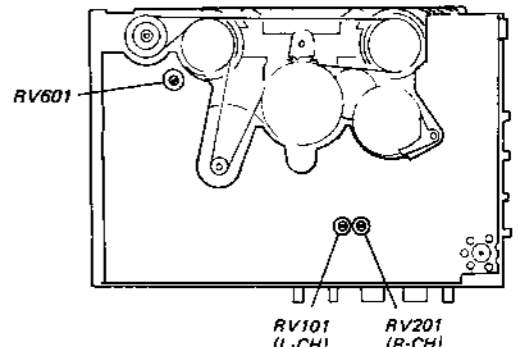
REV adjustment screw FWD adjustment screw



Remove blind sheet when the adjustment is performed with the rear case installed.



Adjustment Location:



SECTION 3 ELECTRICAL ADJUSTMENTS

FM Section

Setting:

FUNCTION Selector: FM
BAND Selector: FM

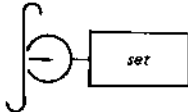
Playback Level Adjustment

DOLBY NR switch OFF
VOL knob MINIMUM
TAPE NORMAL TAPE

Procedure:

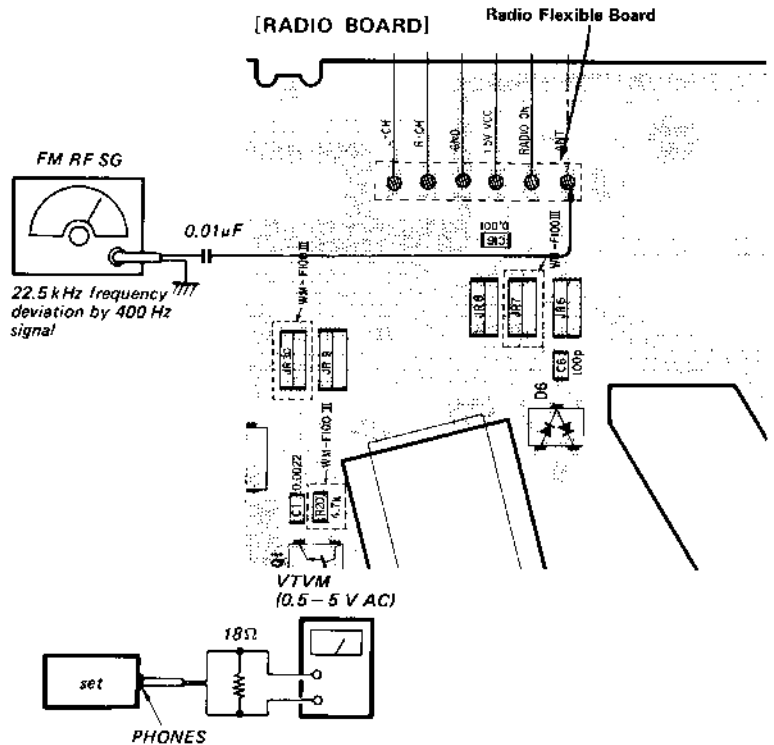
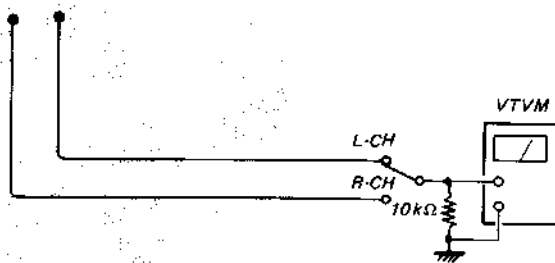
1. Playback mode

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



2. Adjust RV101 (L-CH), RV201 (R-CH) so that the VTVM reading is -20.5 ± 1 dB (65 ~ 82 mV).
3. Set the DOLBY switch to ON position. VTVM reading should be within 1 dB from that obtained in step 2.

Adjustment Location: Audio Board - Side B -

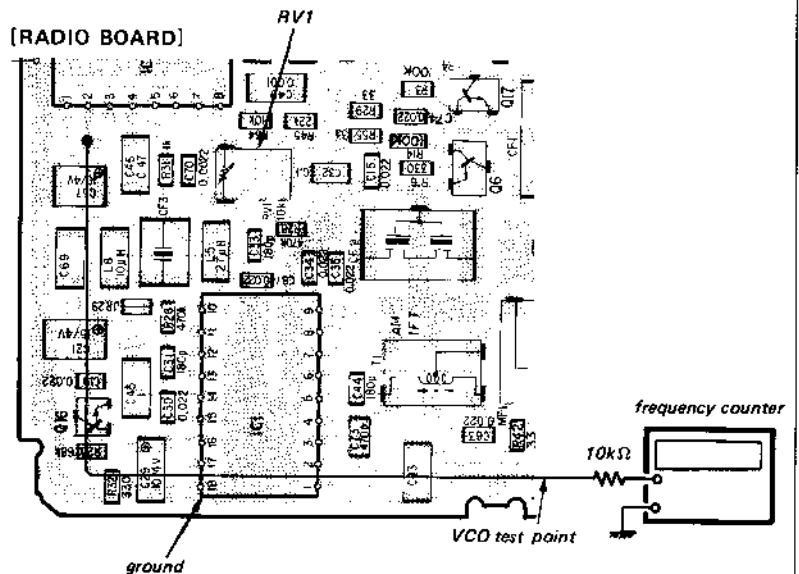


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

VCO Frequency Adjustment

Adjust RV1 for 19 kHz ± 0.02 kHz reading on the frequency counter.

[RADIO BOARD]



**SECTION 4
DIAGRAMS**

Regulator Output-voltage Adjustment

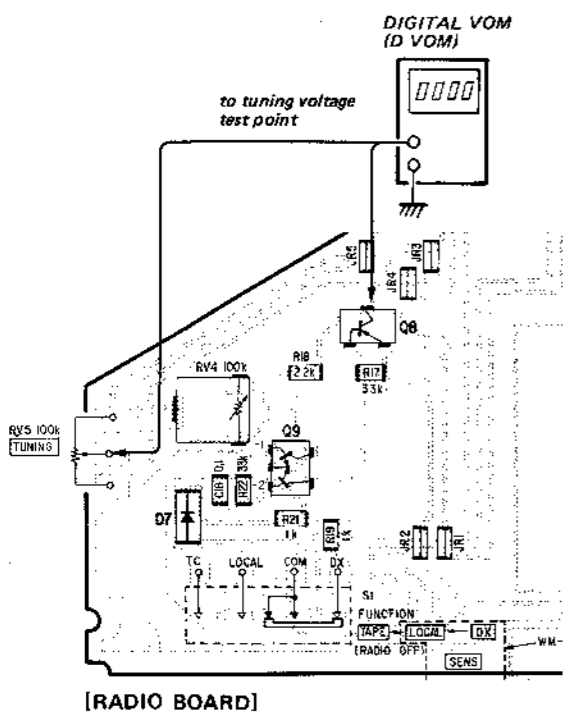
Procedure:

1. Remove battery.
2. Apply 1.2 V dc from external regulated DC power supply to the 1.5 V Vcc terminal.
3. Adjust RV4 so that the output line (collector) of Q8 (pin 1 of IC2, etc.) becomes in 1.1 V.

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

RV3	RV2
Digital VOM 1V (±) (0.01V)	Digital VOM 9V (±) (0.01V)
Minimum receiving frequency	Maximum receiving frequency
TUNING VOLTAGE ADJUSTMENT	

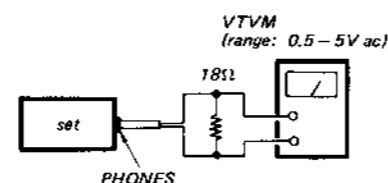
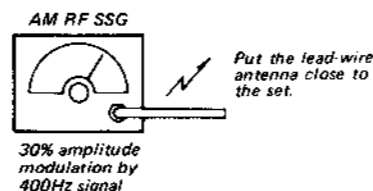
Use a digital VOM for the adjustment.



AM Section

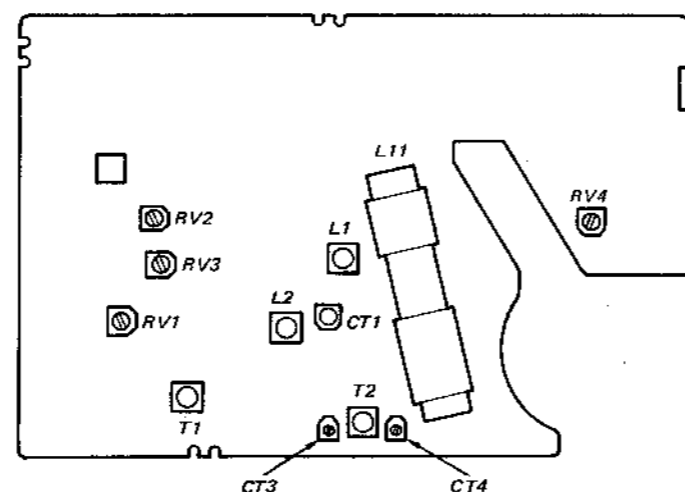
Setting:

FUNCTION Selector: RADIO, DX
BAND Selector: AM



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

[RADIO BOARD]



• FM Section

FM FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Note: Perform this adjustment after the FM TUNING VOLTAGE ADJUSTMENT below.

Adjust for a maximum reading on VTVM.

leftmost (f min.)	rightmost (f max.)	dial-pointer position	
86.5 MHz ±0.3 MHz	109.5 MHz ±0.3 MHz	SSG frequency	
L2	L1	CT1	adjustment parts

• AM Section

T1

Adjust for a maximum reading on VTVM.

AM IF ADJUSTMENT

CT3	T2
1,680 kHz ⁺⁴⁰ / ₋₂₀ kHz	515 kHz ±3 kHz

Adjust for a maximum reading on VTVM.

AM FREQUENCY COVERAGE ADJUSTMENT

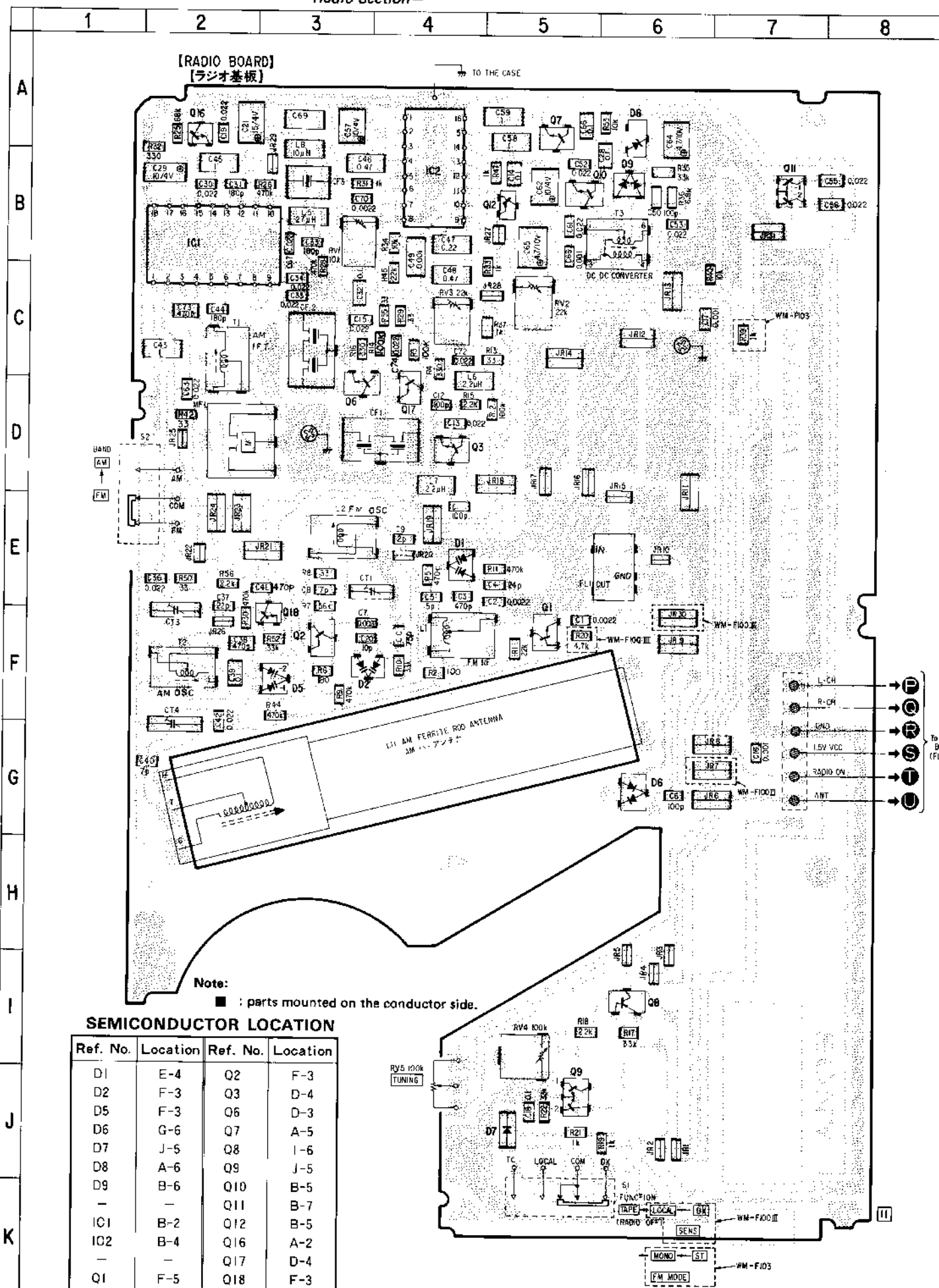
CT4	L11
1,400 kHz	620 kHz

Adjust for a maximum reading on VTVM.

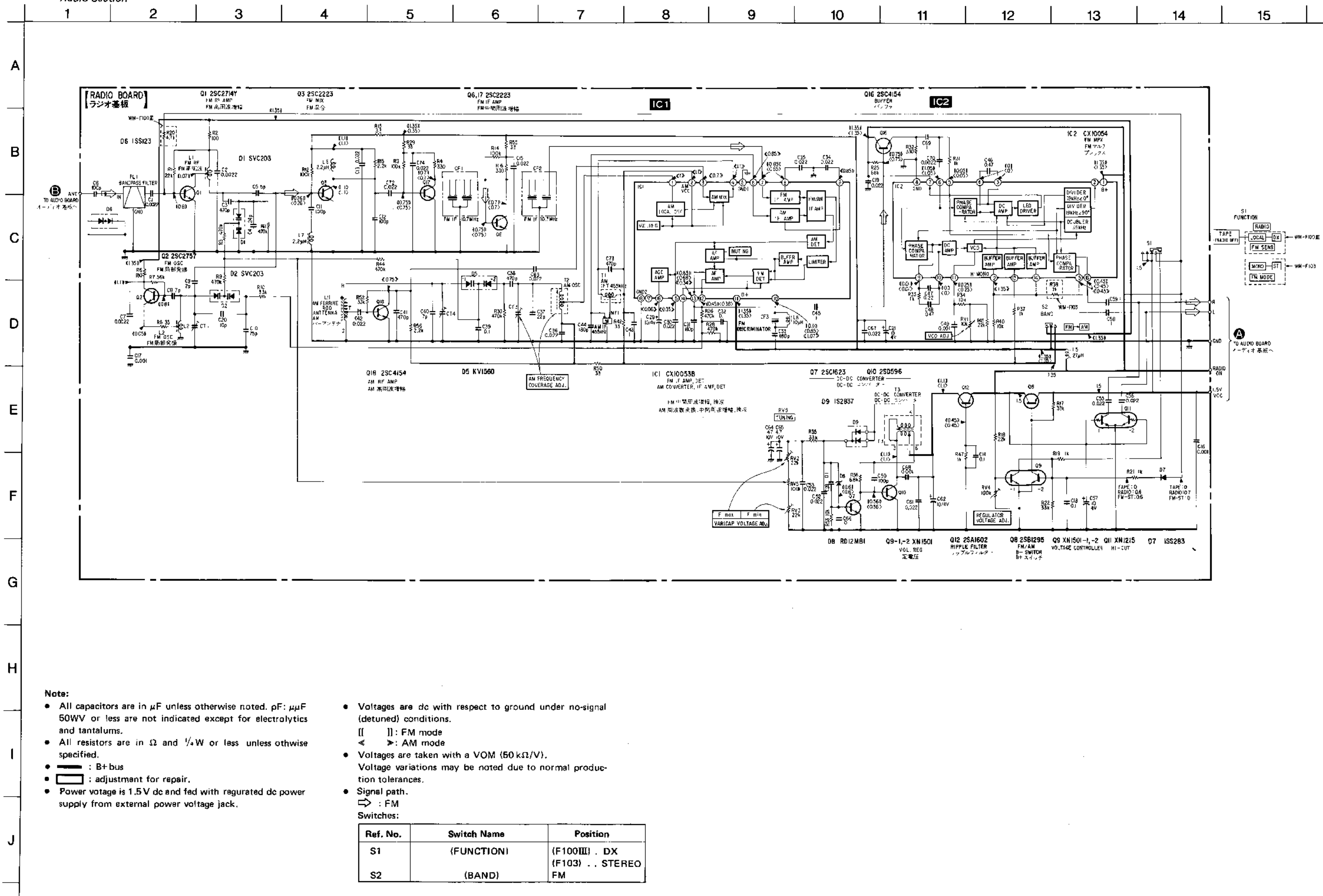
AM TRACKING ADJUSTMENT

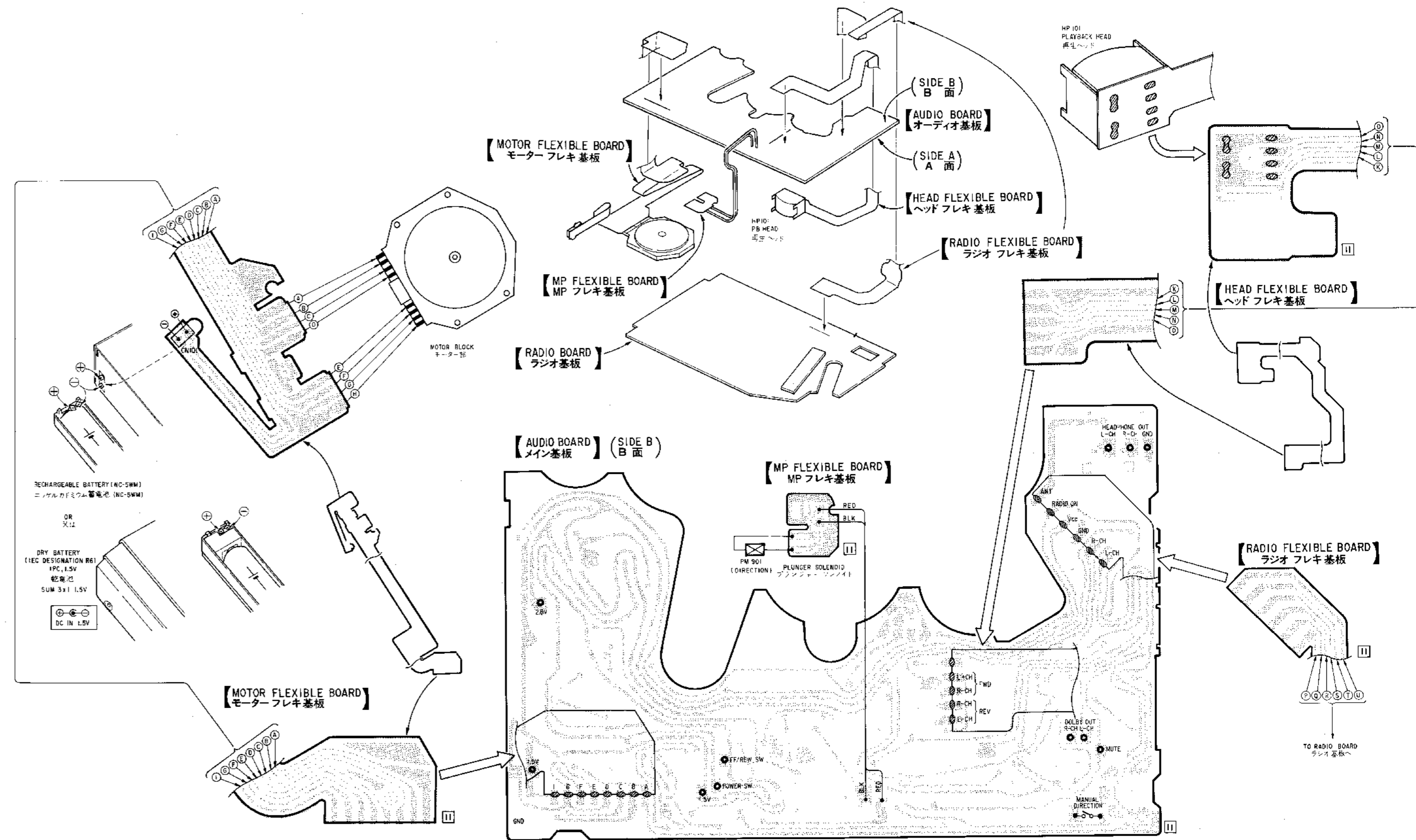
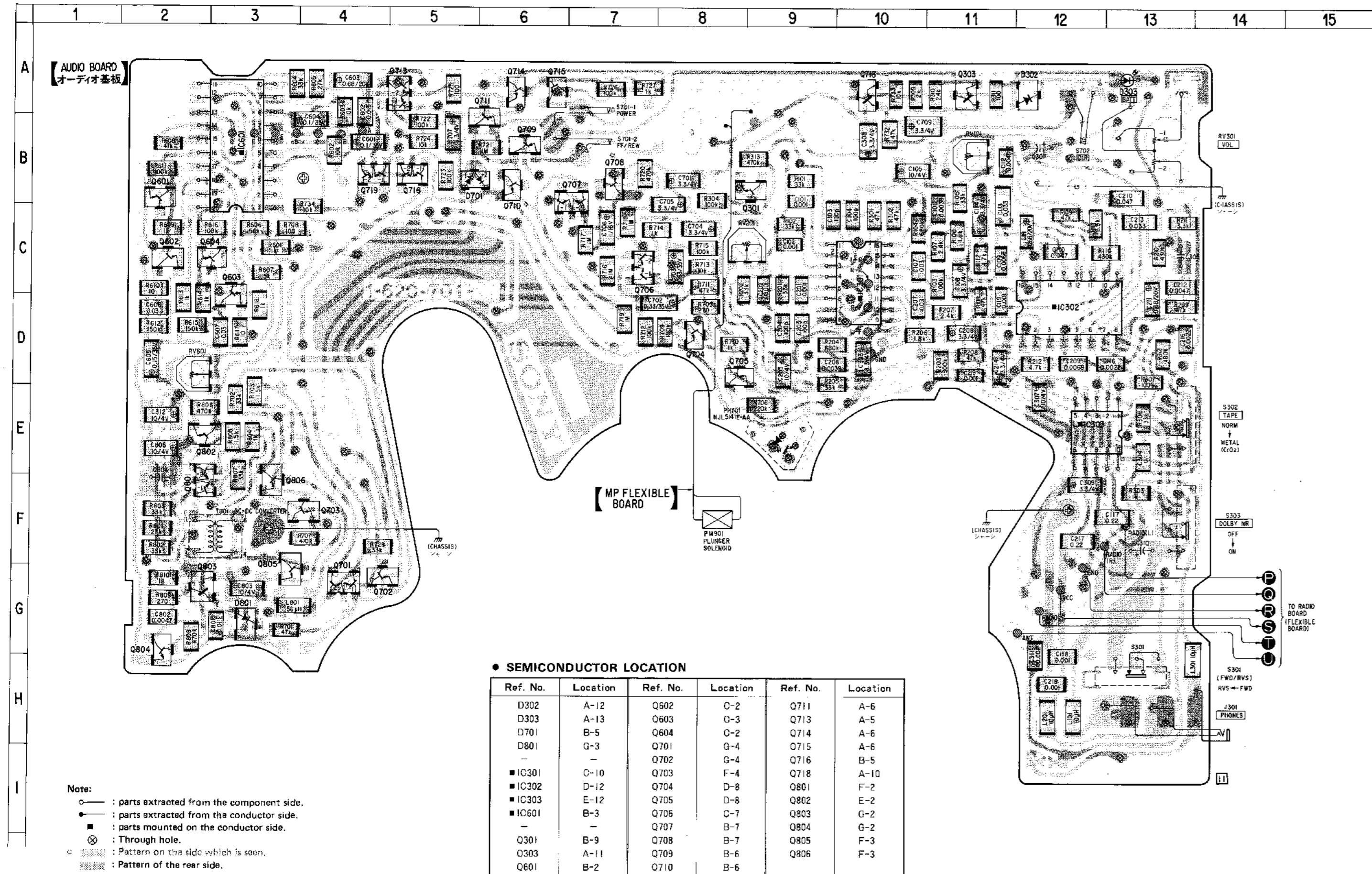
4-1. SEMICONDUCTOR LEAD LAYOUTS

<p>CX20123</p> <p>(TOP VIEW)</p>	<p>DTA114TK DTC114TK 2SA1602 ZSB624-BV3 2SB1295-UL6 2SC1623 2SC2223 2SC2714Y 2SC2757 2SC4154 2SD596</p> <p>cathode anode</p>	<p>SVC203CP 1S2837</p> <p>cathode anode</p>
<p>CX10054 NJM2063AM TA7739F</p>	<p>NJL5141E-AA</p>	<p>XN1401</p>
<p>LX4535M</p> <p>(Top view)</p>	<p>DA106K</p> <p>NC 1 2 3</p>	<p>1SS283</p> <p>cathode anode</p>
<p>CX10053-B</p> <p>MARKING SIDE VIEW</p>	<p>1SS123</p>	<p>KV1560</p> <p>1 cathode 2 anode 3 anode</p>
<p>XN1215 XN1501</p>	<p>GL2PR9</p>	



SEE ADDITIONAL INFORMATION

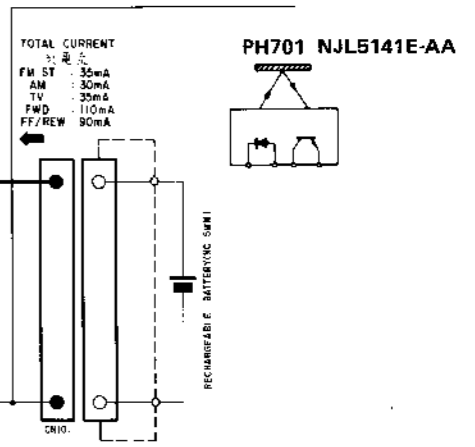
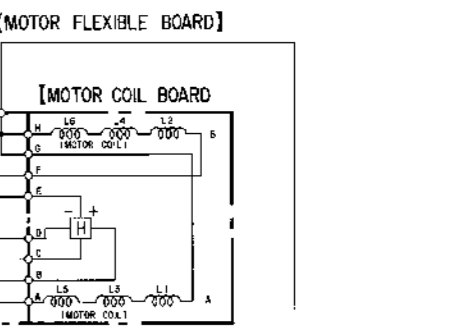
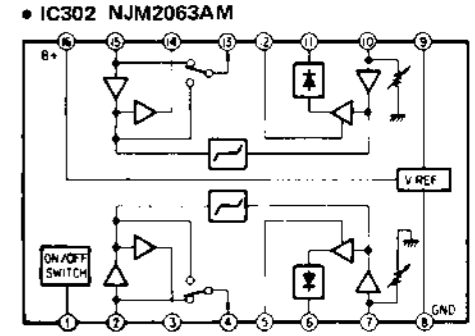
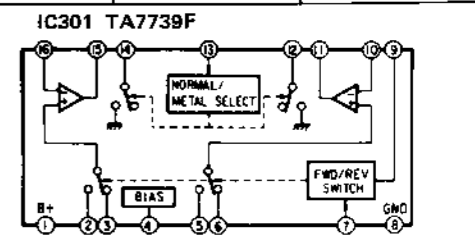
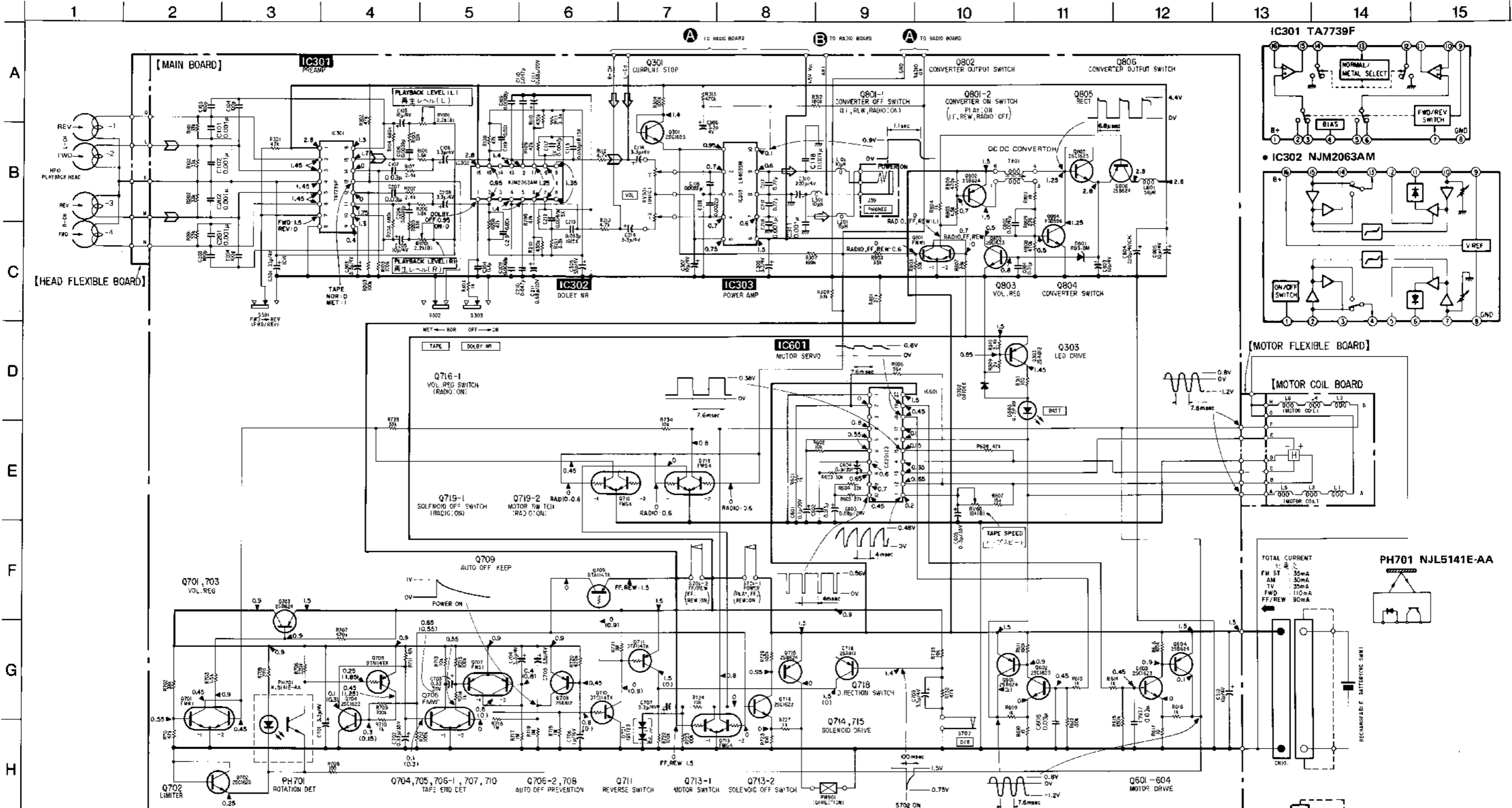




4-6. SCHEMATIC DIAGRAM

-Audio Section-

WM-F100 III/F103 WM-F100 III/F103



Note:

- 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 $\frac{1}{4}W$ or less unless otherwise specified.
- $\text{B}+$: B + bus
- \square : adjustment for repair.

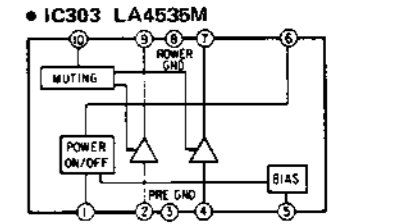
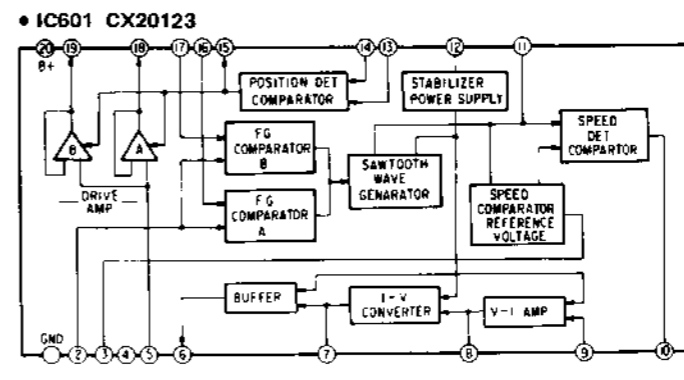
Total current is measured with no cassette installed. Power voltage is 1.5V dc and fed with regulated dc power supply from external power voltage jack. Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark: PLAY

(): When the 20 Hz, 0dB sine wave is applied to the collector of PH701.

- Voltages are taken with a VOM (50k Ω /V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- \Rightarrow : FM \Rightarrow : PB

Switches:

Ref. No.	Switch Name	Position
S301	(FWD/REV)	FWD
S302	TAPE	NOR
S303	DOLBY NR	OFF
S701-1	(POWER)	OFF
S701-2	(FF/REW)	OFF
S702	DIR	OFF



**SEE ADDITIONAL
INFORMATION**

WM-F100 II/F103

**SECTION 5
EXPLODED VIEWS**

REVISED

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

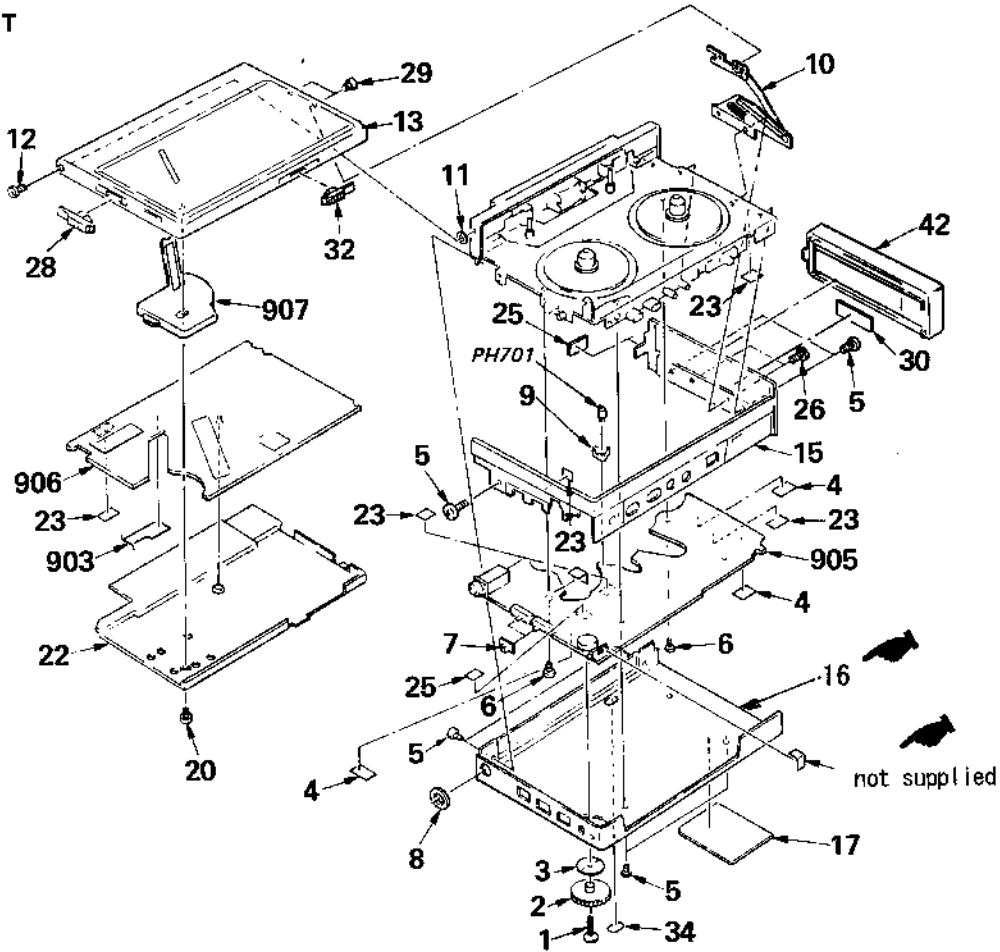
The construction parts of an assembled part are indicated with a collation number in the remark column.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

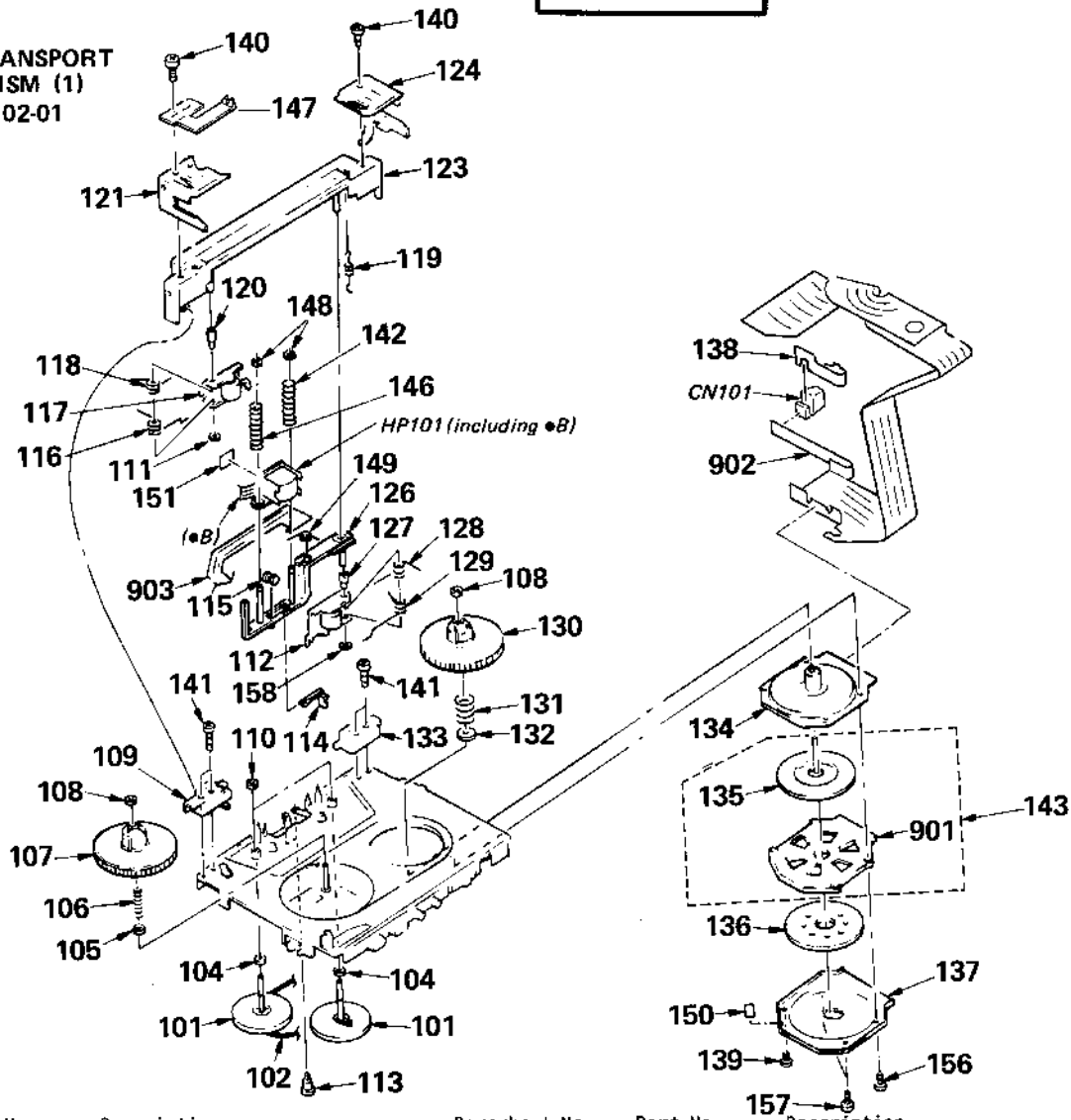
(1). CABINET



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-340-031-11	SCREW (M1.4X3.8), VOL FITTING		20	3-342-512-11	SCREW (Ø1.7X3), TAPPING	
2	3-338-659-11	KNOB, VOL		22	*3-342-305-21	PLATE, BLIND, PANEL	
3	3-315-467-00	WASHER, CONTROL		23	3-327-119-01	SHEET (B), INSULATING	
4	3-831-441-XX	CUSHION, CABINET UPPER 10X7X0.3		25	3-703-929-01	SPACER (P)	
5	3-704-197-01	SCREW (M1.4X1.6), NYLON		26	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
6	3-703-816-01	SCREW (M1.4X2.0), SPECIAL HEAD		28	3-338-655-01	KNOB FUNCTION	
7	3-329-762-01	KNOB, SW		29	7-627-451-07	SCREW, PRECISION +K 1.4X1.6	
8	3-342-508-01	PROTECTOR, JACK		30	*3-701-999-00	LABEL, SERIAL NUMBER	
9	3-329-761-01	ADJUSTOR, REFLECTOR		32	3-342-304-01	KNOB, BAND	
10	X-3329-738-1	BRACKET (T) ASSY, ARM		34	3-333-162-11	SHEET, AZIMUTH HOLE	
11	3-563-124-11	WASHER, RATTLE ABSORBER (t=0.19)		42	X-3329-739-1	CASE (B) ASSY, BATTERY	
12	3-563-124-21	WASHER, RATTLE ABSORBER (t=0.30)			X-3329-779-1	CASE (B) ASSY, BATTERY (Rechargeable)	
13	X-3331-051-1	(F100-3:US,Canadian) ...LID ASSY (B), CASSETTE		903	1-617-100-11	PC BOARD, RADIO CONNECTION	
	X-3331-053-1	(F103:AEP,E)...LID ASSY (B), CASSETTE		905	A-3070-183-A	PC BOARD ASSY, AU	
15	3-335-952-01	ORNAMENT (F), REEL		906	A-3089-351-A	(F100-3:US,Canadian)..MOUNTED PCB, TUNER	
16	X-3331-050-1	CASE ASSY (B)			A-3266-457-A	(F103:AEP,E).....MOUNTED PCB, TUNER	
17	*3-345-712-01	(F100-3:US,Canadian) ...LABEL, MODEL NUMBER (U)		907	1-237-792-11	TUNING UNIT (including RV5)	
	*3-345-713-01	(F103:AEP,E)....LABEL, MODEL NUMBER		PH701	8-719-751-42	DIODE NJL5141E-AA	

REVISED

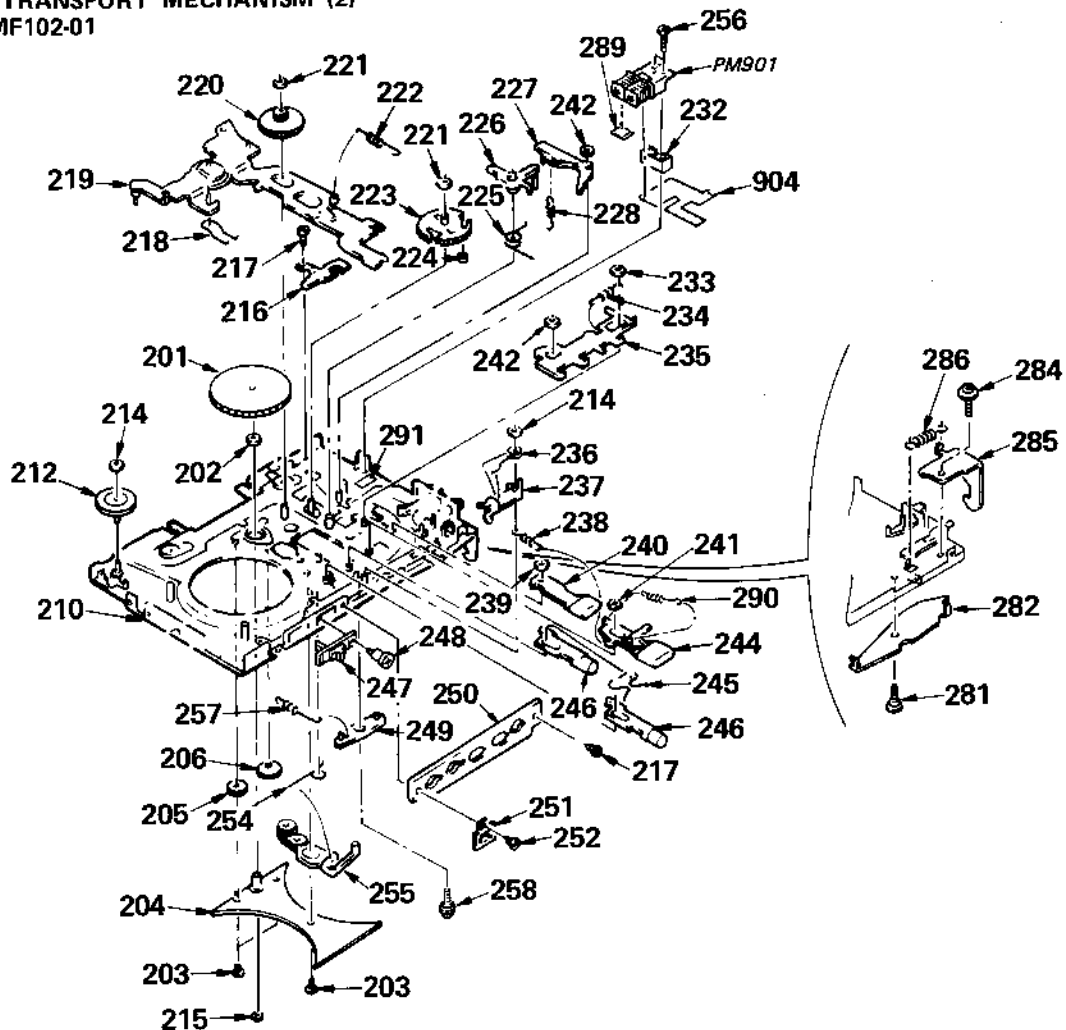
(2). TAPE TRANSPORT MECHANISM (1)
MF-WMF102-01



No.	Part No.	Description
101	X-3329-670-1	FLYWHEEL ASSY (N)
102	3-329-695-01	BELT
104	3-321-394-21	WASHER
105	3-315-415-21	SPRINGER (1.5-2.3)
106	3-331-013-01	SPRING, COMPRESSION (T-REEL)
107	X-3329-705-1	GEAR (R) ASSY, T REEL
108	3-315-384-11	WASHER, STOPPER (t=0.25)
109	3-329-736-01	GUIDE (RIGHT), HOLDER
110	3-331-007-01	WASHER
111	3-331-036-01	WASHER
	3-331-036-11	WASHER (t=0.19)
112	X-3329-602-1	PINCH LEVER (R) ASSY
113	3-331-097-01	SCREW, AZIMUTH
114	3-333-101-01	LEVER, AZIMUTH
115	3-333-102-01	SHAFT, AZIMUTH (1)
	3-333-102-31	SHAFT, AZIMUTH (0.9)
116	3-341-431-01	SPRING (NB)
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-3329-708-1	HOLDER (TD) ASSY
124	3-329-713-12	HOLDER (LEFT), CASSETTE
126	X-3329-765-1	LEVER ASSY, HEAD
127	3-331-027-01	COLLAR (R), PINCH LEVER
128	3-329-641-01	SPRING (R)
129	3-329-643-01	SPRING (R)

No.	Part No.	Description
130	3-329-729-01	GEAR, SUPPLY REEL
131	3-331-014-01	SPRING, COMPRESSION (S-REEL)
132	3-320-354-01	WASHER
133	3-329-737-01	GUIDE (LEFT), HOLDER
134	X-3329-625-1	CHASSIS ASSY, MOTOR
135	A-3133-236-A	WHEEL BLOCK ASSY, MOTOR
136	3-333-173-01	PLATE (S), HYSTERESIS
137	*3-333-126-01	PLATE (R), SHIELD, MOTOR
138	3-335-977-01	SPRING
139	7-627-551-98	PRECISION SCREW +P 1.4X2.2
140	3-345-710-11	SCREW (M1.4X2.5), TAPPING
141	3-704-244-63	SCREW (P1.7X4.0)
142	3-337-942-01	SPRING, COMPRESSION (PB)
143	X-3330-054-1	MOTOR SUB, ASSY
146	3-337-943-01	SPRING, COMPRESSION (PA)
147	*3-331-059-02	SPRING
148	3-335-902-01	WASHER (t=0.25)
149	3-338-616-01	SPRING (A)
150	*3-335-904-01	SHEET, INSULATING
151	*3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE
156	3-703-816-71	SCREW (M1.4X3.0), SPECIAL HEAD
157	3-338-687-11	SCREW (M1.4X3), TAPPING
158	3-331-036-11	WASHER (t=0.25)
901	1-462-230-11	COIL, MOTOR (STATOR)
902	1-617-017-11	PC BOARD, MOTOR CONNECTION
903	1-617-100-11	PC BOARD, RADIO CONNECTION
CN101	1-506-573-12	CONNECTOR 2P
HP101	1-543-310-11	HEAD, MAGNETIC (PLAYBACK)
904	1-617-019-11	PC BOARD, MP FLEXIBLE

(3). TAPE TRANSPORT MECHANISM (2)
MF-WMF102-01



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	X-3329-749-1	PULLEY (B) COMP ASSY, MIDWAY		237	3-329-692-05	LEVER, SW	
202	3-321-394-21	WASHER		238	3-331-010-01	SPRING (STOP LEVER), TENSION	
203	3-331-047-01	SCREW (M1.4X1.4), SPECIAL HEAD		239	3-570-615-00	POLY-WASHER (DIA.1.2)	
204	X-3329-618-1	COVER ASSY, REEL		240	X-3329-679-1	LEVER ASSY, PLAY	
205	3-329-689-01	GEAR (B), T		241	3-341-434-01	WASHER, STOPPER	
206	3-329-688-01	GEAR (A), T		242	3-311-815-11	WASHER, POLYETHYLENE	
210	X-3329-794-1	CHASSIS COMP ASSY		244	X-3329-678-1	LEVER ASSY, STOP	
212	3-338-628-01	WHEEL, REVERSE		245	3-331-016-01	SPRING	
214	3-338-645-31	WASHER (0.8-2.5)		246	X-3329-696-1	LEVER (A) ASSY, FR	
215	3-331-007-01	WASHER		247	3-337-994-01	KNOB, SAFETY LOCK	
216	3-329-685-01	SPRING (A)		248	3-329-697-01	SCREW, STEP, PRECISION	
217	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD		249	X-3329-617-1	LEVER (B) ASSY, DRIVING	
218	3-329-698-01	SPRING (B)		250	*3-329-734-01	HOLDER, BUTTON	
219	X-3329-755-1	LEVER (AD) (P) ASSY, DRIVING		251	3-331-043-01	SPRING	
220	3-329-687-01	GEAR, DRIVING		252	3-703-816-02	SCREW (M1.4X2.0), SPECIAL HEAD	
221	3-315-384-21	WASHER, STOPPER (t=0.20)		254	3-329-699-01	SPRING	
222	3-337-962-01	SPRING, TENSION (DRIVING LEVER)		255	X-3329-626-1	LEVER (B) ASSY, F.R	
223	3-329-730-01	GEAR, CAM		256	7-627-551-37	SCREW, PRECISION +P 1.4X5	
224	3-329-693-01	COLLAR, CAM GEAR		257	3-331-018-01	SPRING, TENSION (DRIVING LEVER B)	
225	3-329-700-01	SPRING		258	3-331-056-01	SHAFT, DRIVING LEVER (B)	
226	3-329-733-01	LEVER (A), SHUT-OFF		281	3-333-124-01	SCREW (M1.4), STEP, PRECISION	
227	X-3329-615-1	LEVER ASSY, TRIGGER		282	*3-335-942-01	LEVER (B), EJECT	
228	3-338-623-01	SPRING, TENSION		284	3-338-625-61	SCREW (M1.4X1.4), WASHER HEAD	
232	*3-331-041-01	BRACKET, P		285	*3-335-943-01	LEVER (A), EJECT	
233	3-578-224-00	WASHER (t=0.25)		286	3-337-964-01	SPRING, TENSION (EJECT LEVER A)	
234	3-331-009-01	SPRING (LOCK LEVER), TENSION		289	*3-338-668-01	SHEET	
235	3-329-731-01	LEVER, LOCK		290	3-331-111-01	SPRING, TENSION	
236	3-329-702-01	SPRING		291	*3-341-417-01	SPACER (D)	
				PM901	1-454-406-11	SOLENOID, PLUNGER	

ELECTRICAL PARTS LIST

NOTE:

Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ μF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

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

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

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

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	1-462-230-11	COIL, MOTOR (STATOR)	C43	1-162-638-11	CERAMIC CHIP 1MF 16V
902	1-617-017-11	PC BOARD, MOTOR CONNECTION	C44	1-162-956-11	CERAMIC CHIP 180PF 5% 50V
903	1-617-100-11	PC BOARD, RADIO CONNECTION	C45	1-162-638-11	CERAMIC CHIP 1MF 16V
904	1-617-019-11	PC BOARD, MP FLEXIBLE	C46	1-162-637-11	CERAMIC CHIP 0.47MF 16V
905	A-3070-183-A	PC BOARD ASSY, AU	C47	1-163-081-00	CERAMIC CHIP 0.22MF 25V
906	A-3089-351-A	(F100-3:US,Canadian)	C48	1-162-637-11	CERAMIC CHIP 0.47MF 16V
		...MOUNTED PCB, TUNER	C49	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V
	A-3266-457-A	(F103:AEP,E).....MOUNTED PCB, TUNER	C50	1-162-953-11	CERAMIC CHIP 100PF 5% 50V
907	1-237-792-11	TUNING UNIT (including RV5)	C52	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C1	1-162-966-11	CERAMIC CHIP 0.0022MF 10% 50V	C53	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C2	1-162-966-11	CERAMIC CHIP 0.0022MF 10% 50V	C55	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V
C3	1-162-962-11	CERAMIC CHIP 470PF 10% 50V	C56	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V
C4	1-162-975-11	CERAMIC CHIP 24PF 5% 50V	C57	1-135-104-00	TANTAL. CHIP 10MF 20% 4V
C5	1-162-936-11	CERAMIC CHIP 5PF 0.25PF 50V	C58	1-162-638-11	CERAMIC CHIP 1MF 16V
C6	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	C59	1-162-638-11	CERAMIC CHIP 1MF 16V
C7	1-162-966-11	CERAMIC CHIP 0.0022MF 10% 50V	C61	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C8	1-162-996-11	CERAMIC CHIP 7PF 0.5PF 50V	C62	1-135-104-00	TANTAL. CHIP 10MF 20% 4V
C9	1-162-932-11	CERAMIC CHIP 2PF 0.25PF 50V	C63	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C10	1-163-603-91	CERAMIC CHIP 75PF 5% 50V	C64	1-135-096-21	TANTAL. CHIP 4.7MF 20% 10V
C11	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	C65	1-135-096-21	TANTAL. CHIP 4.7MF 20% 10V
C12	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	C66	1-163-038-00	CERAMIC CHIP 0.1MF 25V
C13	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C67	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C14	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C68	1-162-964-11	CERAMIC CHIP 0.001MF 10% 50V
C15	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C69	1-162-638-11	CERAMIC CHIP 1MF 16V
C16	1-162-964-11	CERAMIC CHIP 0.001MF 10% 50V	C70	1-162-966-11	CERAMIC CHIP 0.0022MF 10% 50V
C17	1-162-964-11	CERAMIC CHIP 0.001MF 10% 50V	C72	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C18	1-164-156-11	CERAMIC CHIP 0.1MF 25V	C73	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C19	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C74	1-162-995-11	CERAMIC CHIP 0.022MF 50V
C20	1-162-997-11	CERAMIC CHIP 10PF 0.5PF 50V	C101	1-163-141-00	CERAMIC CHIP 0.001MF 10% 50V
C21	1-135-158-21	TANTAL. CHIP 15MF 20% 4V	C102	1-163-141-00	CERAMIC CHIP 0.001MF 10% 50V
C28	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C103	1-163-117-00	CERAMIC CHIP 100PF 5% 50V
C29	1-135-104-00	TANTAL. CHIP 10MF 20% 4V	C104	1-163-117-00	CERAMIC CHIP 100PF 5% 50V
C30	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C105	1-135-104-00	TANTAL. CHIP 10MF 10% 4V
C31	1-162-956-11	CERAMIC CHIP 180PF 5% 50V	C106	1-163-016-00	CERAMIC CHIP 0.0039MF 10% 50V
C32	1-163-038-00	CERAMIC CHIP 0.1MF 25V	C107	1-163-810-00	CERAMIC CHIP 0.03MF 10% 25V
C33	1-162-956-11	CERAMIC CHIP 180PF 5% 50V	C108	1-135-103-00	TANTAL. CHIP 3.3MF 10% 4V
C34	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C109	1-163-019-00	CERAMIC CHIP 0.0068MF 10% 50V
C35	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C110	1-163-075-00	CERAMIC CHIP 0.047MF 10% 25V
C36	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C111	1-135-087-21	TANTAL. CHIP 0.68MF 10% 20V
C37	1-162-998-11	CERAMIC CHIP 22PF 5% 50V	C112	1-163-017-00	CERAMIC CHIP 0.0047MF 5% 50V
C38	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	C113	1-163-078-11	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	1-162-996-11	CERAMIC CHIP 7PF 0.5PF 50V	C116	1-163-013-00	CERAMIC CHIP 0.0022MF 10% 50V
C41	1-162-962-11	CERAMIC CHIP 470PF 10% 50V	C117	1-163-081-00	CERAMIC CHIP 0.22MF 25V
C42	1-162-995-11	CERAMIC CHIP 0.022MF 50V	C118	1-163-141-00	CERAMIC CHIP 0.001MF 10% 50V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C119	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		D7	8-719-118-21	DIODE 1SS283			
C201	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		D8	8-719-106-70	DIODE RD12M-B1			
C202	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		D9	8-719-100-05	DIODE 1S2837			
C203	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		D302	8-719-908-30	DIODE DA106K			
C204	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		D303	1-807-305-11	DIODE GL2PR9 (LED)			
C205	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		D701	8-719-101-23	DIODE 1SS123			
C206	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V		D801	8-719-105-57	DIODE RD3.9M-B1			
C207	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V		FL1	1-236-053-11	FILTER, BAND PASS			
C208	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		HP101	1-543-310-11	HEAD, MAGNETIC (PLAYBACK)			
C209	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V		IC1	8-759-923-96	IC CX10053B			
C210	1-163-075-00	CERAMIC CHIP 0.047MF	10%	25V		IC2	8-759-910-53	IC CX10054			
C211	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V		IC301	8-759-203-85	IC TA7739F			
C212	1-163-017-00	CERAMIC CHIP 0.0047MF	5%	50V		IC302	8-759-701-07	IC NJM2063AM			
C213	1-163-078-11	CERAMIC CHIP 0.033MF	5%	25V		IC303	8-759-802-80	IC LA4535M			
C214	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		IC601	8-752-012-32	IC CX20123			
C216	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V		J301	1-562-974-11	JACK (PHONES)			
C217	1-163-081-00	CERAMIC CHIP 0.22MF		25V		JR1	1-216-864-11	METAL GLAZE	0	5%	1/16W
C218	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		JR2	1-216-864-11	METAL GLAZE	0	5%	1/16W
C219	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		JR3	1-216-864-11	METAL GLAZE	0	5%	1/16W
C301	1-124-431-00	ELECT 33MF	20%	4V		JR4	1-216-864-11	METAL GLAZE	0	5%	1/16W
C303	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR5	1-216-864-11	METAL GLAZE	0	5%	1/16W
C304	1-163-038-00	CERAMIC CHIP 0.1MF		25V		JR6	1-216-296-00	METAL GLAZE	0	5%	1/8W
C305	1-124-431-00	ELECT 33MF	20%	4V		JR7	1-216-296-00	(F100-3:US,Canadian) ...METAL GLAZE	0	5%	1/8W
C307	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		JR8	1-216-296-00	METAL GLAZE	0	5%	1/8W
C308	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W
C309	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR10	1-216-864-11	METAL GLAZE	0	5%	1/16W
C310	1-124-576-11	ELECT 220MF	20%	4V		JR11	1-216-296-00	METAL GLAZE	0	5%	1/8W
C311	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V		JR12	1-216-296-00	METAL GLAZE	0	5%	1/8W
C312	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		JR13	1-216-296-00	METAL GLAZE	0	5%	1/8W
C601	1-135-070-00	TANTAL. CHIP 0.1MF	10%	35V		JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W
C602	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V		JR15	1-216-864-11	METAL GLAZE	0	5%	1/16W
C603	1-135-087-21	TANTAL. CHIP 0.68MF	10%	20V		JR16	1-216-864-11	METAL GLAZE	0	5%	1/16W
C604	1-135-070-00	TANTAL. CHIP 0.1MF	10%	35V		JR17	1-216-864-11	METAL GLAZE	0	5%	1/16W
C605	1-135-071-21	TANTAL. CHIP 0.15MF	10%	35V		JR18	1-216-296-00	METAL GLAZE	0	5%	1/8W
C606	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V		JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W
C607	1-163-810-00	CERAMIC CHIP 0.03MF	10%	25V		JR20	1-216-864-11	METAL GLAZE	0	5%	1/16W
C701	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W
C702	1-135-073-00	TANTAL. CHIP 0.33MF	10%	35V		JR22	1-216-864-11	METAL GLAZE	0	5%	1/16W
C703	1-135-073-00	TANTAL. CHIP 0.33MF	10%	35V		JR23	1-216-296-00	METAL GLAZE	0	5%	1/8W
C704	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W
C705	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR25	1-216-864-11	METAL GLAZE	0	5%	1/16W
C706	1-135-091-00	TANTAL. CHIP 1MF	10%	16V		JR26	1-216-864-11	METAL GLAZE	0	5%	1/16W
C707	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR27	1-216-864-11	METAL GLAZE	0	5%	1/16W
C709	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V		JR28	1-216-864-11	METAL GLAZE	0	5%	1/16W
C801	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V		JR29	1-216-864-11	METAL GLAZE	0	5%	1/16W
C802	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V		JR30	1-216-296-00	(F100-3:US,Canadian) ...METAL GLAZE	0	5%	1/8W
C803	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		JR31	1-216-296-00	METAL GLAZE	0	5%	1/8W
C804	1-124-576-11	ELECT 220MF	20%	4V		L1	1-459-641-11	COIL (WITH CORE)(FM RF)			
C805	1-135-104-00	TANTAL. CHIP 10MF	10%	4V		L2	1-459-641-11	COIL (WITH CORE)(FM OSC)			
CF1	1-567-338-65	FILTER, CERAMIC 10.7MHz (FM IF:including CF2,3)				L5	1-410-209-51	INDUCTOR CHIP 27UH			
CM101	1-506-573-12	CONNECTOR 2P				L6	1-410-196-11	INDUCTOR CHIP 2.2UH			
CT1	1-141-333-11	CAP, VAR, TRIMMER				L7	1-410-196-11	INDUCTOR CHIP 2.2UH			
CT3	1-141-333-11	CAP, VAR, TRIMMER				L8	1-410-204-31	INDUCTOR CHIP 10UH			
CT4	1-141-333-11	CAP, VAR, TRIMMER				L11	1-402-282-11	ANTENNA, FERRITE-ROD (AM)			
D1	8-719-939-02	DIODE SVC203CP				L101	1-410-204-31	INDUCTOR CHIP 10UH			
D2	8-719-939-02	DIODE SVC203CP									
D5	8-719-951-05	DIODE KV1560									
D6	8-719-101-23	DIODE 1SS123									

Ref.No.	Part No.	Description
L201	1-410-204-31	INDUCTOR CHIP 10UH
L301	1-410-204-31	INDUCTOR CHIP 10UH
L801	1-410-213-51	INDUCTOR CHIP 56UH
MF1	1-567-693-11	FILTER, CERAMIC AM (455kHz)
PH701	8-719-751-42	DIODE NJL5141E-AA
PM901	1-454-406-11	SOLENOID, PLUNGER
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	8-729-100-66	TRANSISTOR 2SC1623
Q8	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q9	8-729-402-13	TRANSISTOR XN1501
Q10	8-729-159-64	TRANSISTOR 2SD596
Q11	8-729-403-17	TRANSISTOR XN1215
Q12	8-729-602-36	TRANSISTOR 2SA1602
Q16	8-729-602-21	TRANSISTOR 2SC4154T
Q17	8-729-102-06	TRANSISTOR 2SC2223
Q18	8-729-602-21	TRANSISTOR 2SC4154T
Q301	8-729-100-66	TRANSISTOR 2SC1623
Q302	8-729-100-66	TRANSISTOR 2SC1623
Q303	8-729-100-76	TRANSISTOR 2SA812
Q601	8-729-162-43	TRANSISTOR 2SB624-BV3
Q602	8-729-100-66	TRANSISTOR 2SC1623
Q603	8-729-100-66	TRANSISTOR 2SC1623
Q604	8-729-162-43	TRANSISTOR 2SB624-BV3
Q701	8-729-402-13	TRANSISTOR XN1501
Q702	8-729-100-66	TRANSISTOR 2SC1623
Q703	8-729-162-43	TRANSISTOR 2SB624-BV3
Q704	8-729-100-66	TRANSISTOR 2SC1623
Q705	8-729-900-51	TRANSISTOR DTA114TK
Q706	8-729-402-13	TRANSISTOR XN1501
Q707	8-729-403-42	TRANSISTOR XN1401
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	8-729-403-17	TRANSISTOR XN1215
Q714	8-729-100-66	TRANSISTOR 2SC1623
Q715	8-729-162-43	TRANSISTOR 2SB624-BV3
Q716	8-729-403-17	TRANSISTOR XN1215
Q718	8-729-100-76	TRANSISTOR 2SA812
Q719	8-729-403-17	TRANSISTOR XN1215
Q801	8-729-402-13	TRANSISTOR XN1501
Q802	8-729-162-43	TRANSISTOR 2SB624-BV3
Q803	8-729-100-66	TRANSISTOR 2SC1623
Q804	8-729-159-64	TRANSISTOR 2SD596
Q805	8-729-100-66	TRANSISTOR 2SC1623
Q806	8-729-162-43	TRANSISTOR 2SB624-BV3
R1	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R2	1-216-809-11	METAL GLAZE 100 5% 1/16W
R3	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R4	1-216-815-11	METAL GLAZE 330 5% 1/16W
R5	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R6	1-216-812-11	METAL GLAZE 180 5% 1/16W
R7	1-216-842-11	METAL GLAZE 56K 5% 1/16W
R8	1-216-803-11	METAL GLAZE 33 5% 1/16W
R9	1-216-853-11	METAL GLAZE 470K 5% 1/16W

Ref.No.	Part No.	Description
R10	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R11	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R12	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R13	1-216-803-11	METAL GLAZE 33 5% 1/16W
R14	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R15	1-216-825-11	METAL GLAZE 2.2K 5% 1/16W
R16	1-216-815-11	METAL GLAZE 330 5% 1/16W
R17	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R18	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R19	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R20	1-216-829-11	(F100-3:US,Canadian) ...METAL GLAZE 4.7K 5% 1/16W
R21	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R22	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R25	1-216-843-11	METAL GLAZE 68K 5% 1/16W
R26	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R28	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R29	1-216-803-11	METAL GLAZE 33 5% 1/16W
R30	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R31	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R32	1-216-815-11	METAL GLAZE 330 5% 1/16W
R33	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R34	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R35	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R36	1-216-831-11	METAL GLAZE 6.8K 5% 1/16W
R37	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R39	1-216-821-11	(F103)...METAL GLAZE 1K 5% 1/16W
R40	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R42	1-216-803-11	METAL GLAZE 33 5% 1/16W
R44	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R45	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R47	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R50	1-216-803-11	METAL GLAZE 33 5% 1/16W
R52	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R53	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R55	1-216-803-11	METAL GLAZE 33 5% 1/16W
R56	1-216-825-11	METAL GLAZE 2.2K 5% 1/16W
R101	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R102	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R103	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R104	1-216-117-00	METAL GLAZE 680K 5% 1/10W
R105	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R106	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W
R107	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W
R108	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R109	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R110	1-216-112-00	METAL GLAZE 430K 5% 1/10W
R111	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R112	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R201	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R202	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R203	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R204	1-216-117-00	METAL GLAZE 680K 5% 1/10W
R205	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R206	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W
R207	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W
R208	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R209	1-216-089-00	METAL GLAZE 47K 5% 1/10W

Ref.No.	Part No.	Description			
R210	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R211	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R212	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R301	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R302	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R304	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R308	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R309	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R310	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W
R312	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R313	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R601	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R602	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R603	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R604	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R605	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R606	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R607	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R608	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R609	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R610	1-216-001-00	METAL GLAZE	10	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R613	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R614	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R615	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R617	1-216-001-00	METAL GLAZE	10	5%	1/10W
R618	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R701	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R702	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R703	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R705	1-216-035-00	METAL GLAZE	270	5%	1/10W
R706	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R707	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R708	1-216-025-00	METAL GLAZE	100	5%	1/10W
R709	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R712	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R713	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R714	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R715	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R716	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R717	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R718	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R719	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R720	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R721	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R722	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R723	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R724	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R725	1-216-025-00	METAL GLAZE	100	5%	1/10W
R726	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R727	1-216-049-00	METAL GLAZE	1K	5%	1/10W

Ref.No.	Part No.	Description			
R728	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R732	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R733	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R734	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R801	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R802	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R803	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R804	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R805	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R806	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R807	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R808	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R809	1-216-035-00	METAL GLAZE	270	5%	1/10W
R810	1-216-007-00	METAL GLAZE	18	5%	1/10W
RV1	1-230-990-11	RES, ADJ, METAL GLAZE	10K (VCO)		
RV2	1-228-356-00	RES, ADJ, METAL GLAZE	22K (F MAX)		
RV3	1-228-356-00	RES, ADJ, METAL GLAZE	22K (F MIN)		
RV4	1-230-215-00	RES, ADJ, METAL GLAZE	100K (TUNING)		
RV101	1-237-002-11	RES, ADJ, METAL GLAZE	2.2K (LEVEL L)		
RV201	1-237-002-11	RES, ADJ, METAL GLAZE	2.2K (LEVEL R)		
RV301	1-230-955-11	RES, VAR, CARBON	10K/10K (VOL)		
RV601	1-237-004-11	RES, ADJ, METAL GLAZE	10K (SPEED)		
S1	1-571-121-11	SWITCH, SLIDE (FUNCTION)			
S2	1-571-120-11	SWITCH, SLIDE (BAND)			
S301	1-570-396-11	SWITCH, SLIDE (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 TAPE)			
S702	1-570-395-11	SWITCH, LEAF (DIR)			
T1	1-404-690-11	TRANSFORMER, IF (AM IFT)			
T2	1-406-177-11	COIL (AM OSC)			
T3	1-448-302-11	TRANSFORMER, DC-DC CONVERTER			
T801	1-447-864-11	TRANSFORMER, DC-DC CONVERTER			

ACCESSORY & PACKING MATERIAL

1-528-176-11	(F100-3:US,Canadian,F103:AEP)	...BATTERY, STORAGE (NC-5WM)
▲1-528-249-11	(F100-3:US).....	BATTERY CHARGER (BC-7S)
▲1-528-250-11	(F100-3:Canadian)...	BATTERY, CHARGER (BC-7S)
▲1-528-251-11	(F103:AEP).....	BATTERY CHARGER (BC-7S)
3-335-959-01		CUSHION
3-335-960-01		LID, CUSHION
3-335-961-01		SPACER
3-338-669-01	(F103:AEP)...	SPACER
*3-345-716-01	(F100-3:US,Canadian)...	INDIVIDUAL CARTON
*3-345-718-01	(F103:AEP).....	INDIVIDUAL CARTON
*3-345-719-01	(F103:E).....	INDIVIDUAL CARTON
3-769-932-11	(F103:AEP,E).....	MANUAL, INSTRUCTION
3-769-932-21	(F100-3:US,Canadian)...	MANUAL, INSTRUCTION
3-769-932-31	(F100-3:Canadian).....	MANUAL, INSTRUCTION
3-769-932-41	(F103:AEP).....	MANUAL, INSTRUCTION
3-342-508-01		PROTECTOR, JACK
3-345-726-01		CASE, CARRYING
3-701-622-00	(F100-3:US,Canadian)...	BAG, POLYETHYLENE
8-952-266-89	(F100-3:US,Canadian,F103:AEP)	...HEADPHONE MDR-A10L/A SET
8-952-350-90	(F103:E).....	EARPHONE MDR-E454 SET
X-3329-779-1		CASE (B) ASSY, BATTERY (Rechargeable)

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

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

WM-F100 III/F103

SONY[®] SERVICE MANUAL

US Model
Canadian Model
WM-F100 III

AEP Model
E Model
WM-F103

SUPPLEMENT-1

Subject: Addition of West Germany Model

- Refer to WM-F100III/F103 Service Manual (WM-F103: AEP model) previously issued for the information of this set.
- Only following items differ from those in WM-F103 (AEP model!)

Page	Items	Part No.	Description
1	Frequency range	———— ————	FM: 87.6 - 107MHz AM: 531 - 1,602kHz
9	L1/L2 CT1	———— ————	87.35MHz ± 0.3MHz 107.8MHz ± 0.5MHz
11/22	C10	1-163-601-91	62PF 5% 50V
19/22	906	A-3266-493-A	MOUNTED PCB, TUNER
19	13	X-3331-055-1	LID ASSY, CASSETTE
19	17	3-345-731-01	LABEL, MODEL NUMBER