


WM-701C

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model



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

Frequency response (DOLBY NR off)
20—18,000 Hz

Output

Headphones (PHONES/REMOTE jack) load impedance 8—300Ω

Power output

5 mW+5 mW at DC operation, 16Ω

Power requirements

1.5 V DC

Rechargeable battery

One size AA (R6) battery

DC in 1.5 V jack accepts:

Battery life

Battery	Playback hours
Rechargeable NC-6WM fully charged	Approx. 2.5 hours
Sony SUM-3 (NS)	Approx. 1.5 hours
Sony alkaline AM3 (N)	Approx. 4.5 hours
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 6.5 hours

For maximum performance we recommend the use of alkaline batteries.

Dimensions

Approx. 104.6 × 71.8 × 18.2 mm (w/h/d)

not incl. projecting parts and controls

Aprox. 105.6 × 74.2 × 19.8 mm (w/h/d)

incl. projecting parts and controls

Weight

Approx. 150 g incl. rechargeable battery, not incl. other accessories

Accessories supplied

Battery case (1)

Carrying pouch (1) Battery charger (1)

Rechargeable battery (1)

Stereo headphones with the remote controlled device (open-air type, 1)

Plug adaptor (1)

Clip (1)

Design and specifications subject to change without notice.

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



Polarity of the Sony plug

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WM701C-17

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CASSETTE PLAYER
SONY

SECTION 1 SERVICING NOTE

This set detects reel rotation by PH701 (photo sensor). Reel rotation cannot be detected when the system control board is removed, because PH701 is mounted on the system control board. As a result, the auto-off circuit and tape end detection will misoperate. And, up and down of head and power supply of playback circuit cannot operate when the system control board is removed, because S702 (play switch) is mounted on the system control board. (S702 is linked to on and off of the plunger solenoid.) Therefore, operation check of the mechanism deck and voltage check can be performed by the method shown below.

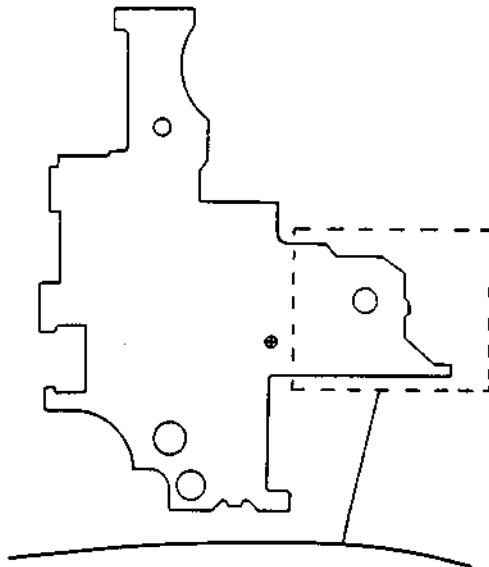
FF/REW mode

- 1) Apply the square wave signal to the PH701.
- 2) Press the **▶▶** or **▶▶** key.

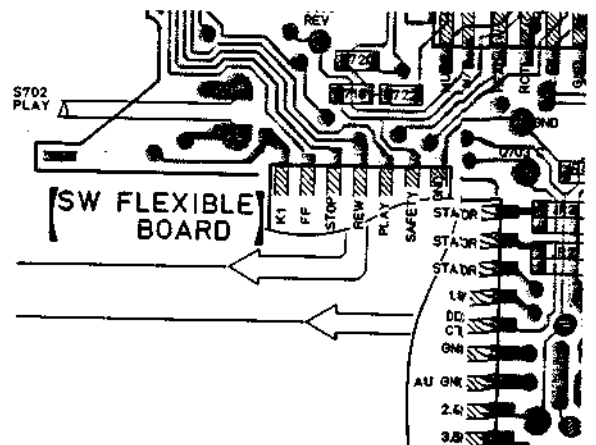
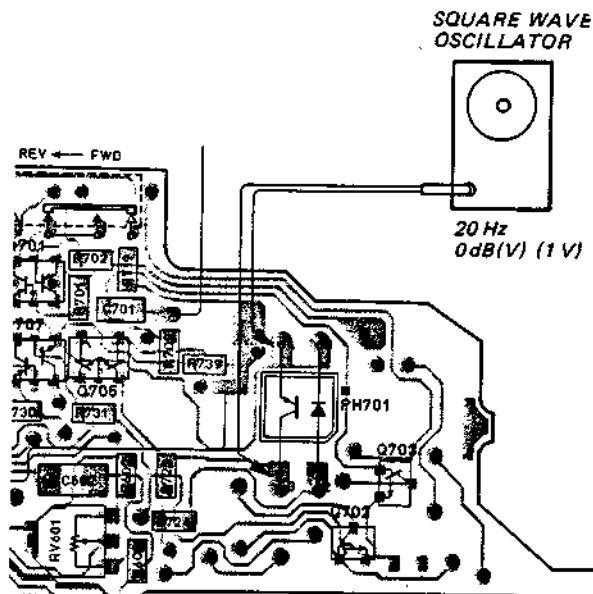
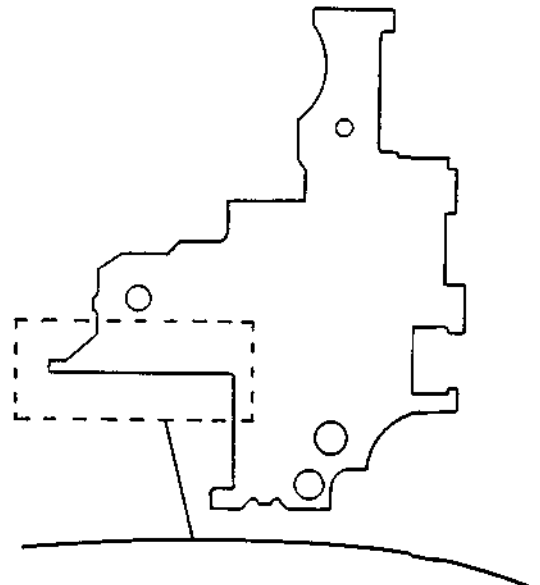
PLAY mode

- 1) Apply the square wave signal to the PH701.
- 2) Press the **▶** key.
- 3) Turn on S702 a few seconds later.

- System Control Board (side A) -



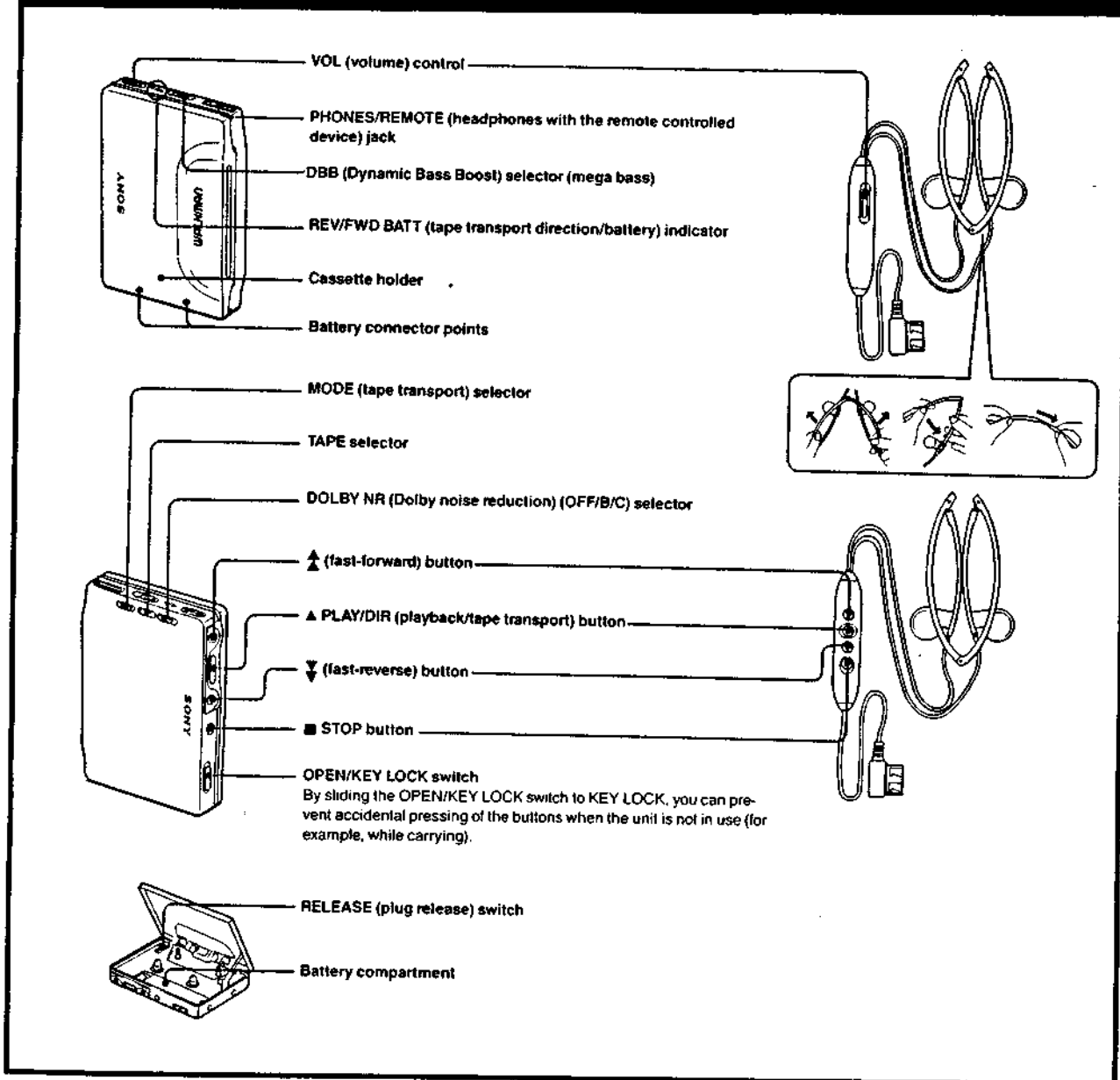
- System Control Board (side B) -



SECTION 2 GENERAL

2-1. LOCATION AND FUNCTION OF CONTROLS

Parts Identification



Notes on chip component replacement

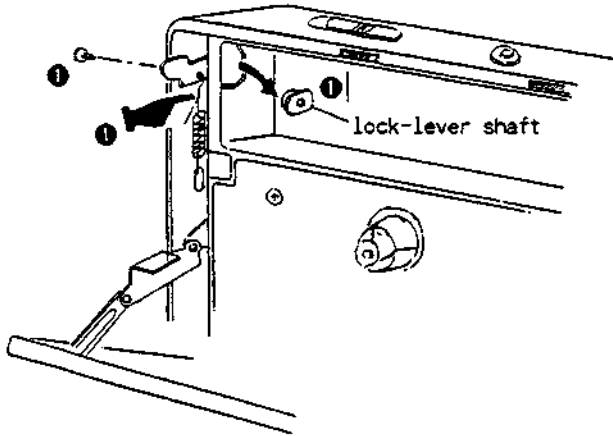
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

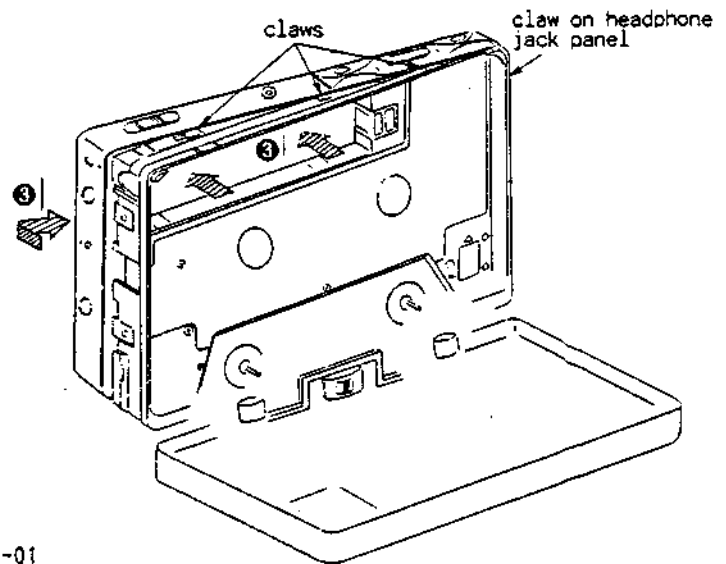
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

2-2. Disassembly

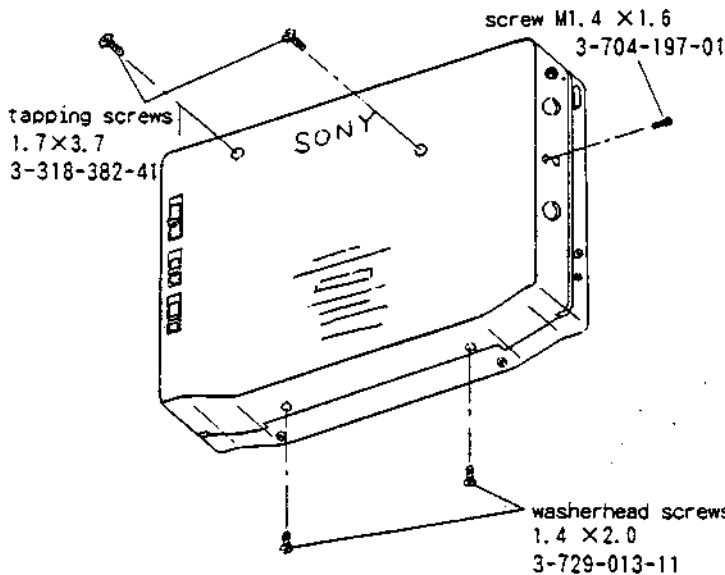
① Open cassette holder and remove tension spring from lock lever with a pair of tweezers. Then remove screw which fastens lock-lever shaft, and push the shaft off into battery chamber with a precision screwdriver.



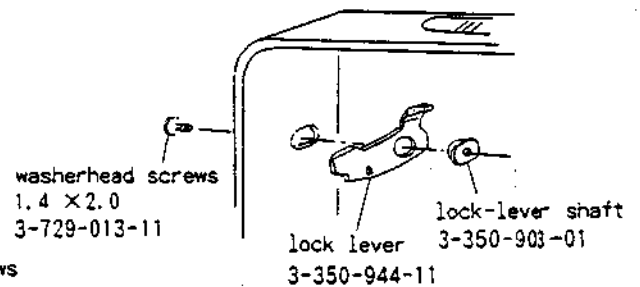
③ Push the bottom of battery chamber (case assy) as shown in the figure so that case comes off from main unit gradually pivoting at headphone jack side. After the three claws on the key switch side of case are released, slide and remove case in the direction of headphone jack (not to break the other claw on headphone-jack panel.)



② Remove 5 screws fixing case.



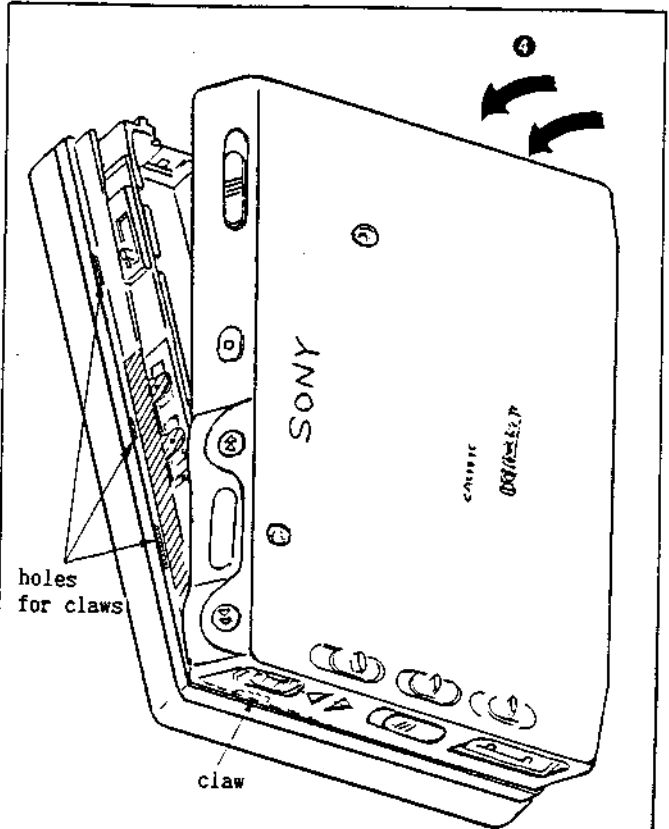
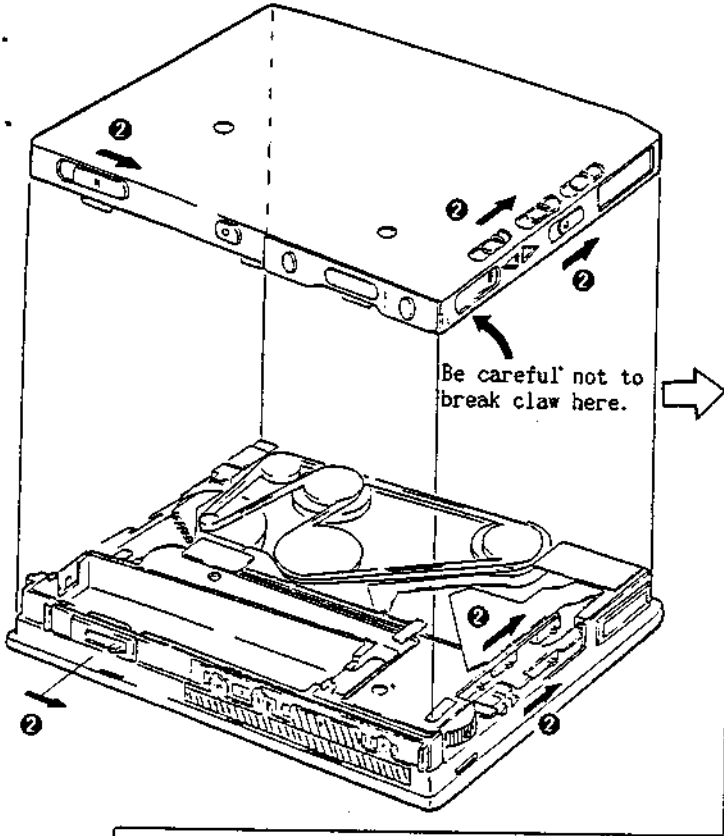
④ While disassembling lock lever will come off, so that lock lever and shaft had better be restored just after case is removed, paying attention to the direction of lock-lever shaft.



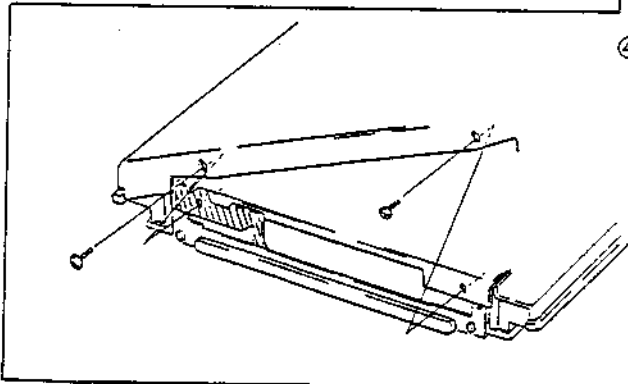
2-3: Reassembly

- ①Assure that lock lever is fitted properly. (Refer to the figure for disassembly.)
- ②Set all switches on main unit and knobs on case in the positions as shown by arrows ②.

- ③Put the headphone-jack-side edge of case onto the proper portion of main unit, taking care not to break claw on the edge of headphone jack panel and holding battery sheet not to be caught in between case and unit.



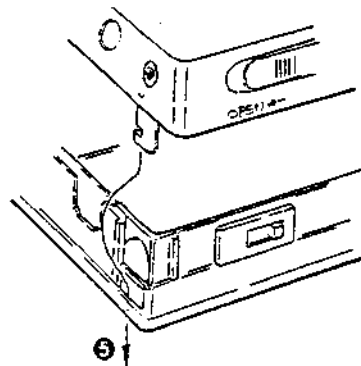
- ④Shut case in the direction of arrows ④ with the greatest care at both sides (hatched portion) not to bend the transparent sheet of key switches and head flexible board on the opposite side, inserting three claws into holes.



- ⑤Inserting lock lever into hole as shown by ⑤ close case exactly.

- ⑥Check that every slide switch can move smoothly.

- ⑦Finally restore tension spring. If battery sheet is caught in behind unit, release it before fastening screws.



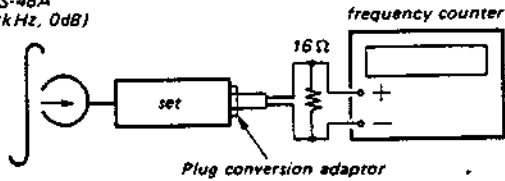
SECTION 4 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

Tape Speed Adjustment

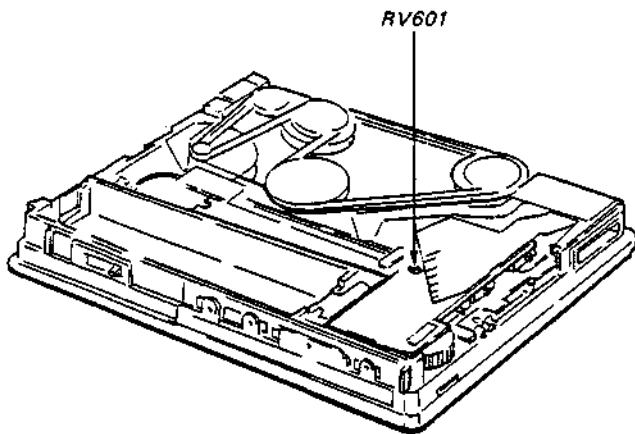
Procedure:

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

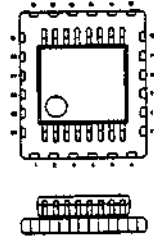


1. Playback WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 Hz \pm 15 Hz.
2. Playback WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.0% from the reading in step 1.

Adjustment Parts Location Diagram



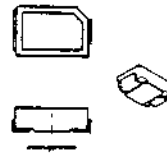
MHC8570E001L



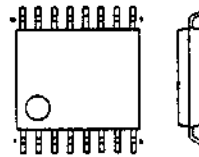
GL102R6



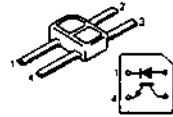
MA110



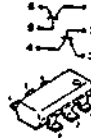
TA8145FN-EL



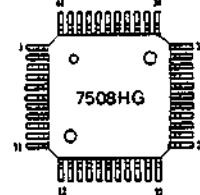
NJL5161K-B



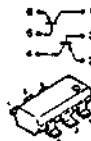
XN4401



μ PD7508HG

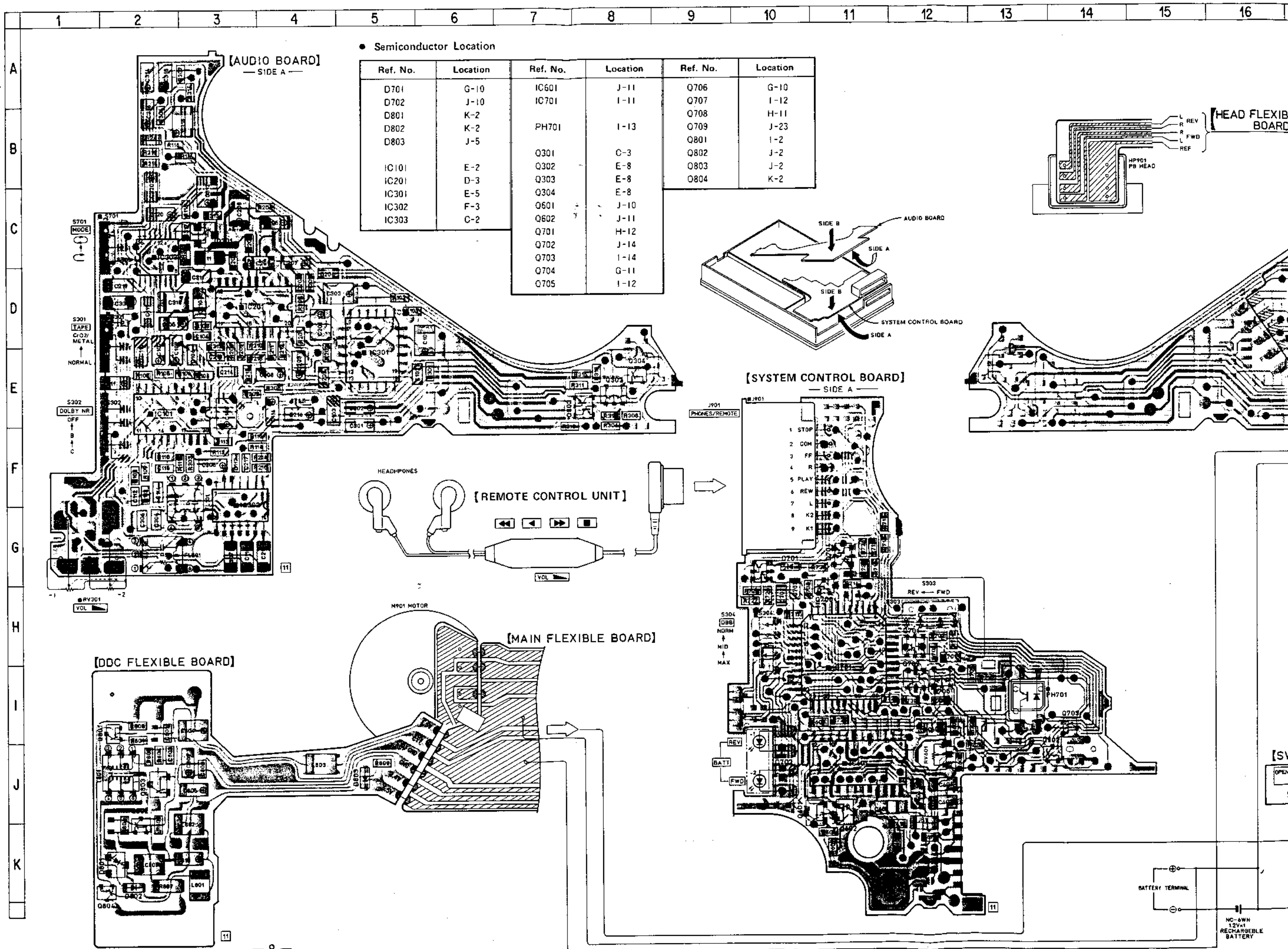


XN4608



4-2.
PRINTED
WIRING
BOARDS

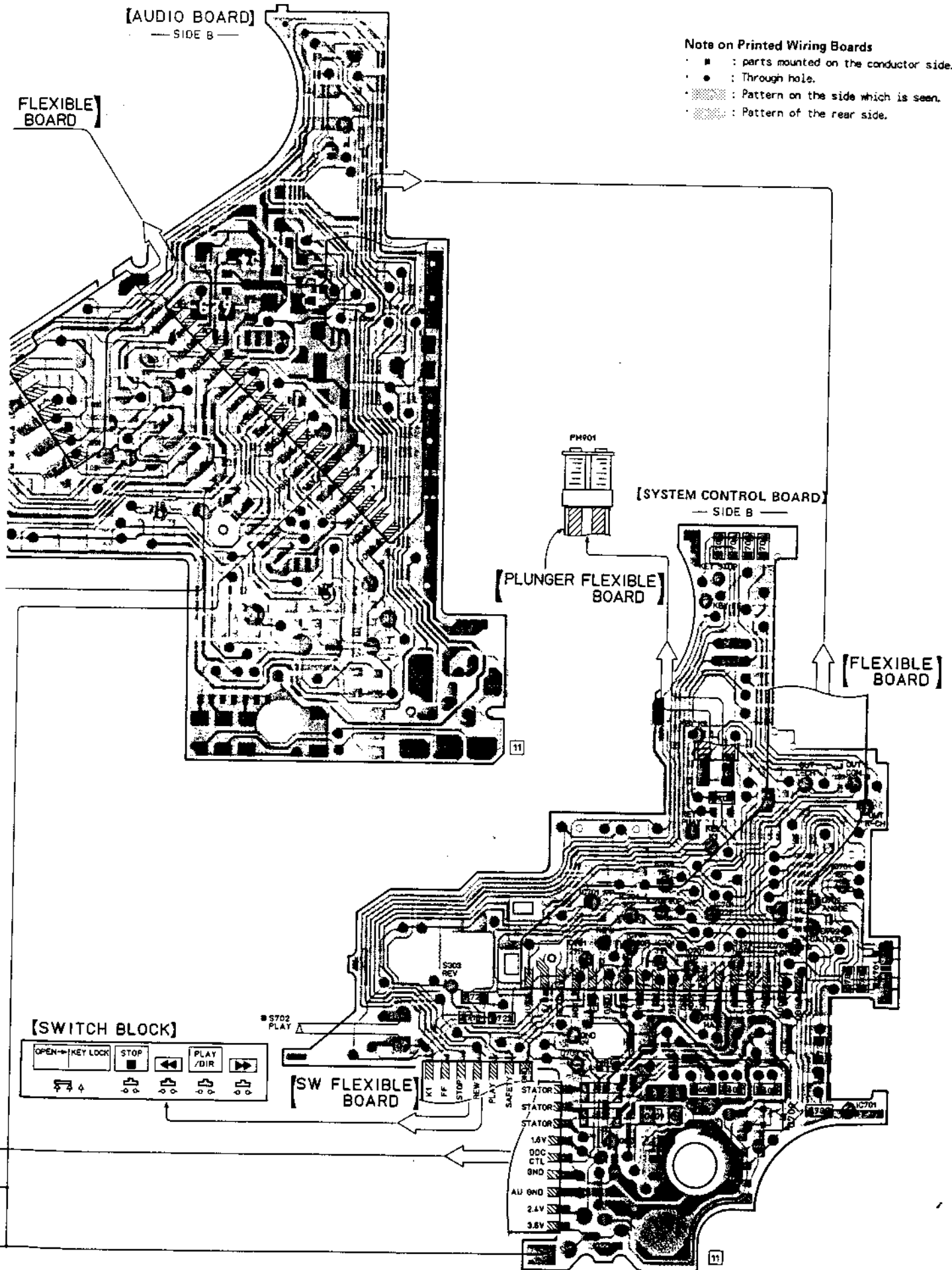
• See page 7 for
Semiconductor
Lead Layouts.



[AUDIO BOARD]
— SIDE B —

FLEXIBLE BOARD

Note on Printed Wiring Boards
 ■ : parts mounted on the conductor side.
 ● : Through hole.
 [Pattern] : Pattern on the side which is seen.
 [Pattern] : Pattern of the rear side.



17

18

19

20

21

22

A

B

C

D

E

F

G

H


I

J

K

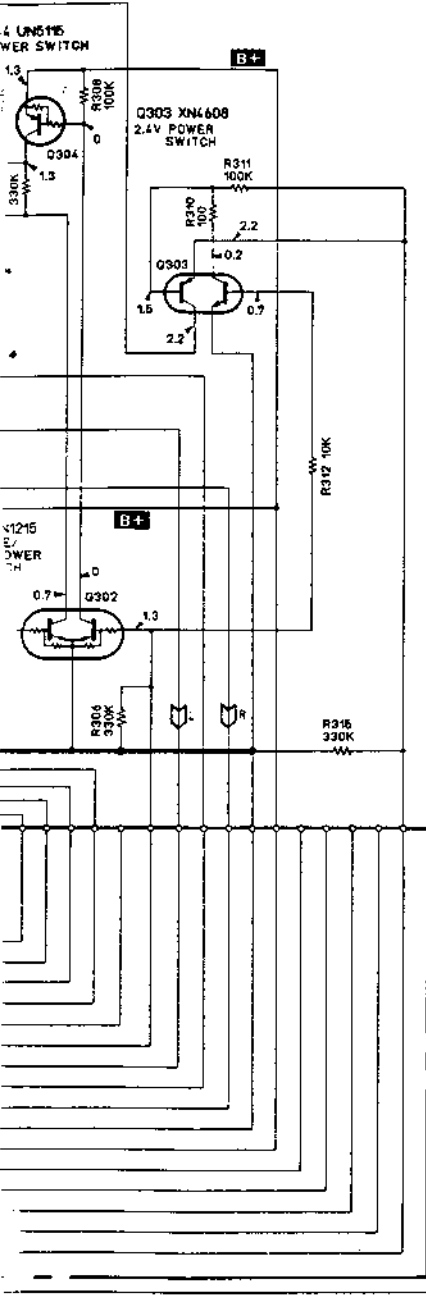
Note on Schematic Diagram:

- 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 $\frac{1}{4}\%$ or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ line
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 1.3V and fed with regulated dc power, supply from battery connector points.
- Voltages are dc with respect to ground in playback mode.
 - ▶ : FWD ◀ : REV
 - ▶▶ : FF ◀◀ : REW
- Voltages are taken with VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- Σ : PB
- Switch

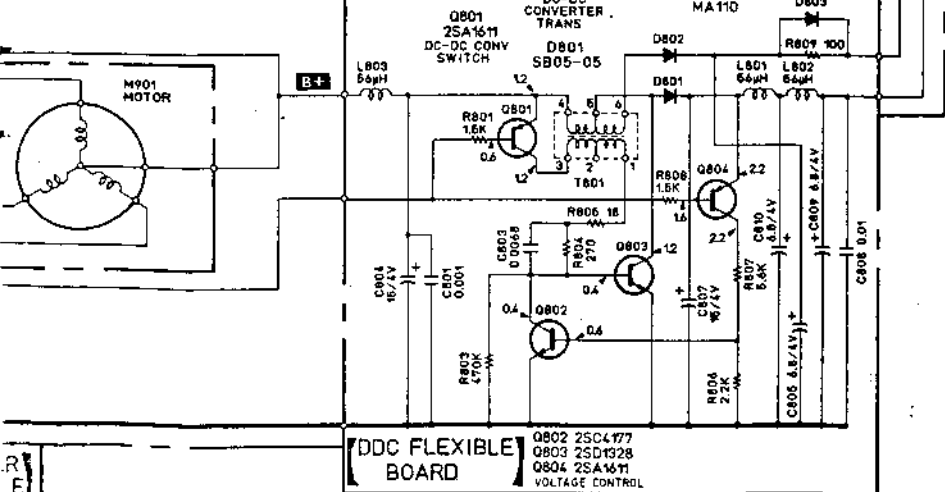
Ref. No.	Switch	Position
S301	TAPE	NORMAL
S302	DOLBY	OFF
S303	FWD/REV	FWD
S304	DBB	NORM
S701	DIR MODE	
S702	PLAY	ON

TOTAL CURRENT
 FWD: 210mA
 REV: 210mA
 REW: 120mA
 FF: 120mA

NC-6WM
 1.2Vx1
 RECHARGEABLE
 BATTERY

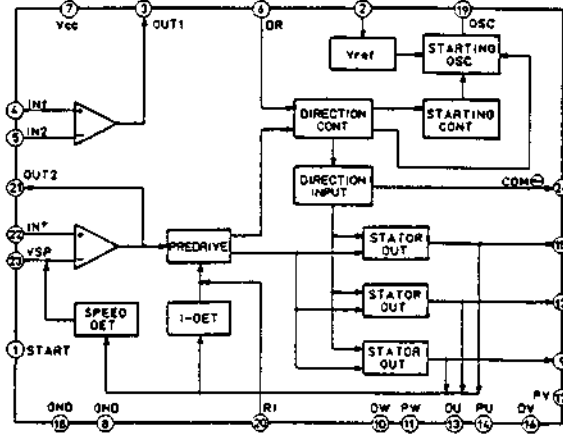


FLEXIBLE BOARD

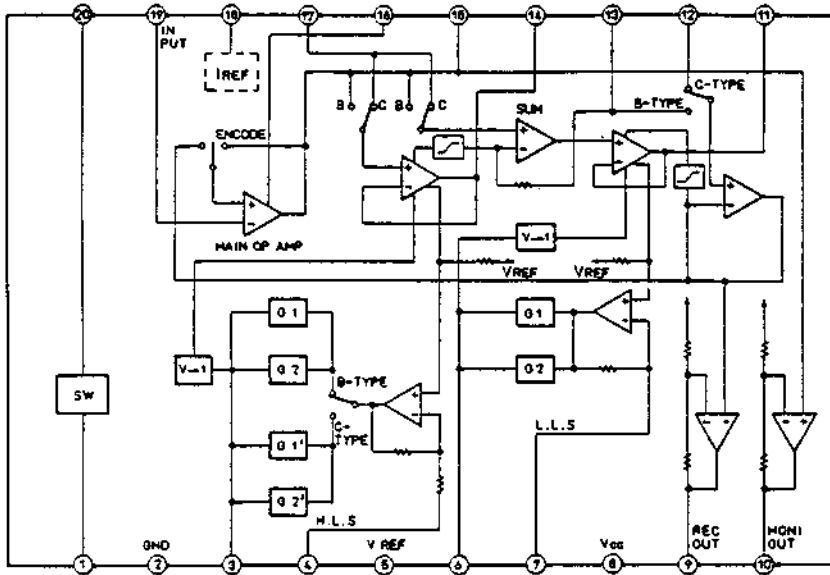


4.4. IC BLOCK DIAGRAM

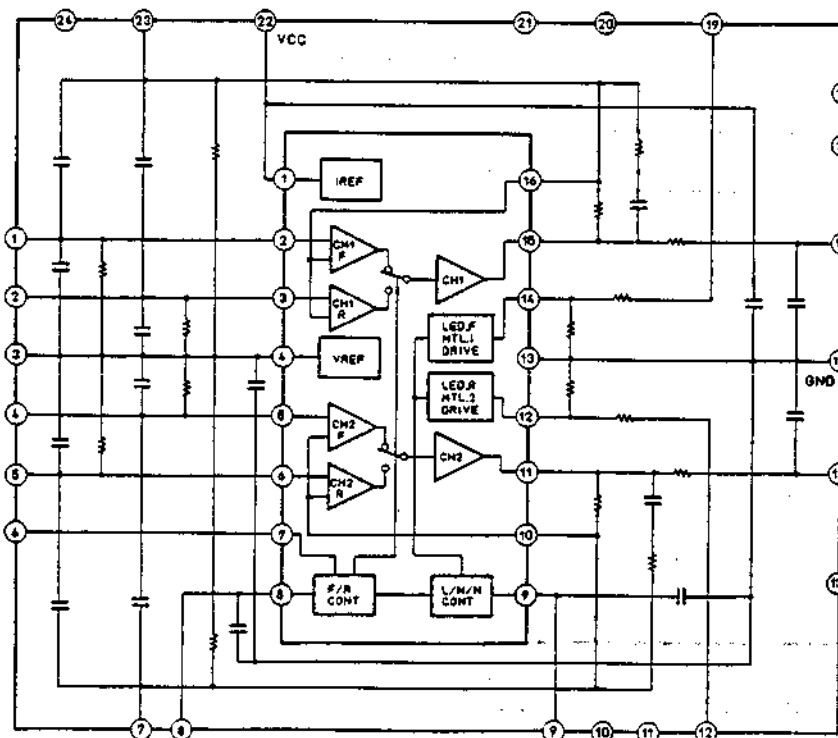
LB1672M (IC601)



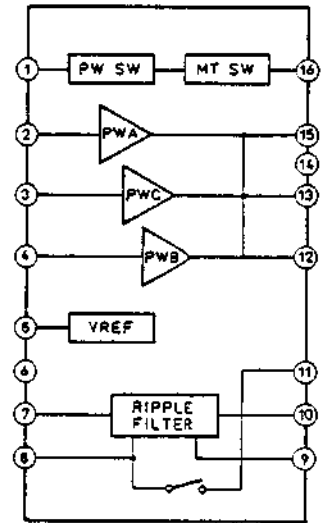
NJM2065M (IC101, 201)



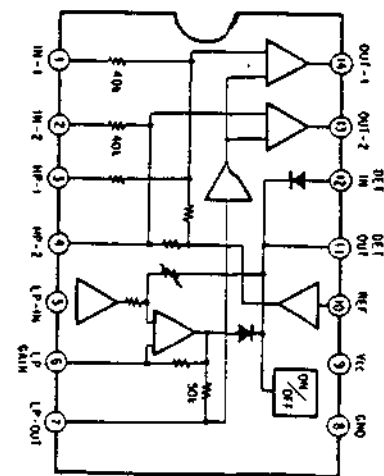
MHC8570EQ01 (IC301)



TA8145FN (IC303)



CXA1249M (IC302)



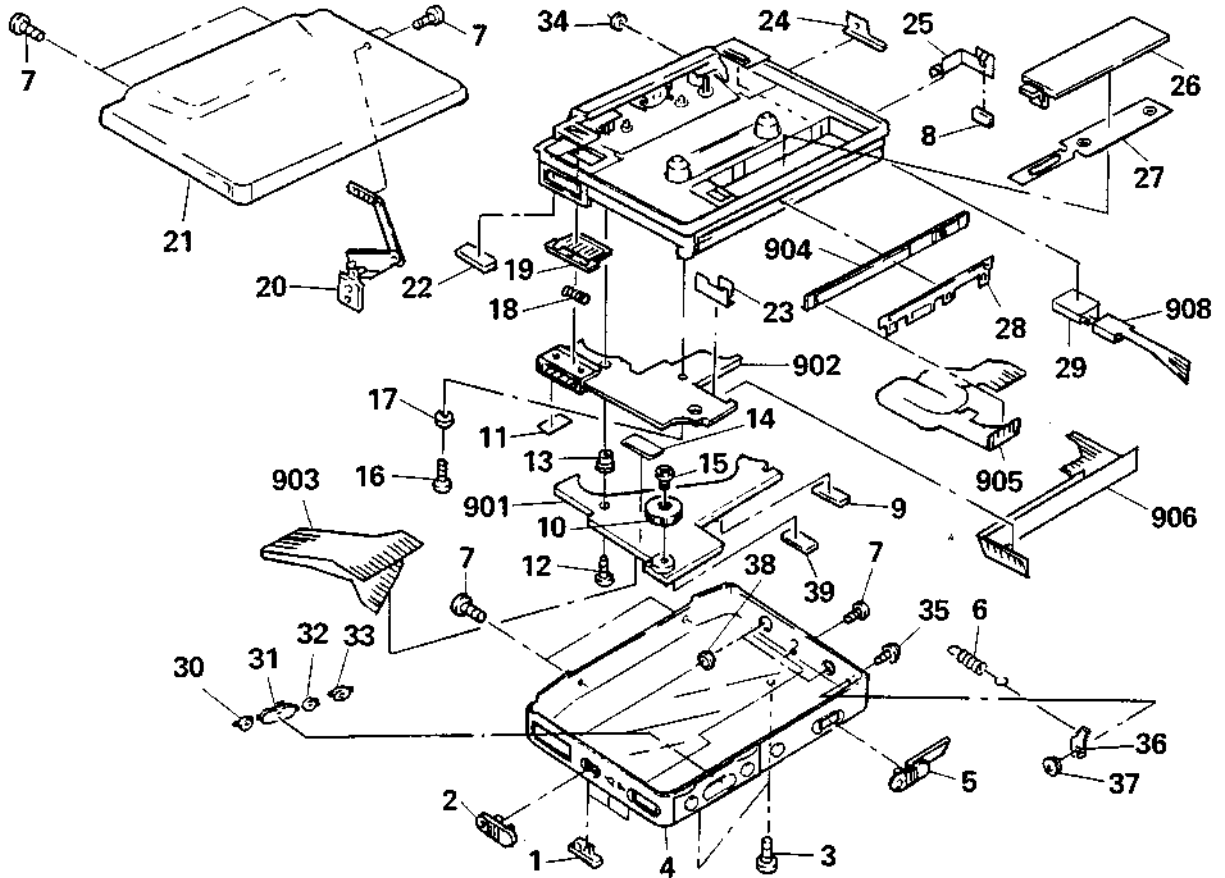
SECTION 5 EXPLODED VIEWS

NOTE:

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

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

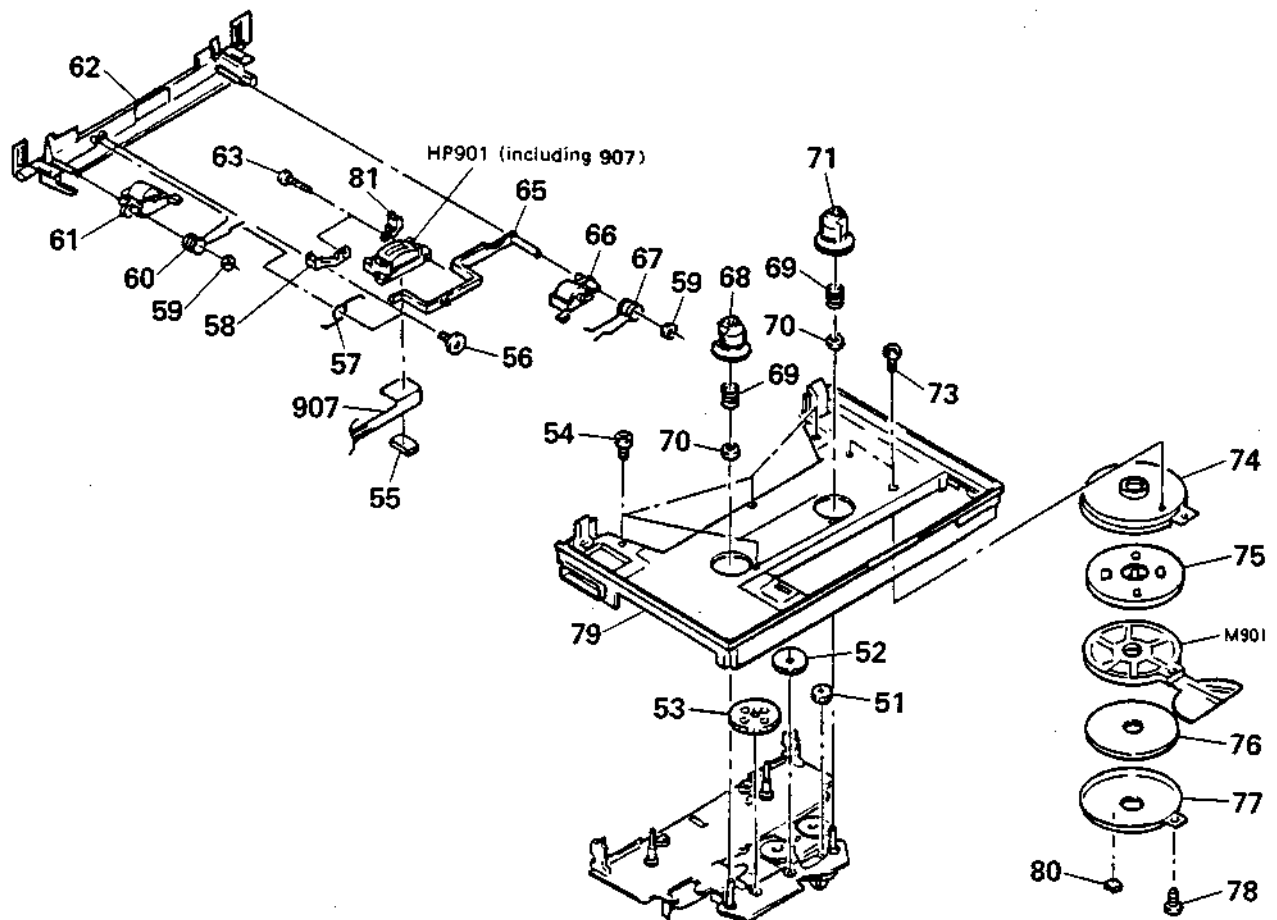
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
1	3-350-917-01	KNOB (DOLBY)	
2	3-350-914-01	KNOB (DBB)	
3	3-318-382-41	SCREW (1.7X3.7), TAPPING	
4	X-3349-818-1	{US,AEP,E:BLACK}...CASE ASSY (B)	
	X-3349-823-1	{AEP,UK,E:SILVER}...CASE ASSY (S)	
5	3-350-913-01	KNOB (OPEN)	
6	3-350-924-01	SPRING, TENSION	
7	3-704-197-01	SCREW (M1.4X1.6), LOCKING	
8	9-911-838-XX	DAMPER, CASSETTE LID	
9	3-831-441-XX	CUSHION, STOPPER	
10	3-350-906-01	KNOB (VOL)	
11	3-831-441-11	CUSHION (B)	
12	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK	
13	*3-350-951-01	SPACER (C)	
14	3-703-929-01	SPACER, SWITCH	
15	3-703-502-31	SCREW	
16	3-704-197-11	SCREW (M1.4X2.0), LOCKING	
17	3-350-949-01	SHEET (SYSTEM CONTROL SCREW)	
18	3-350-901-01	SPRING, COMPRESSION	
19	3-350-904-01	SLIDER	
20	X-3349-817-1	ARM ASSY, CLICK	
21	X-3349-834-1	{US,AEP:BLACK}...LID ASSY (UB), CASSETTE	
	X-3349-835-1	{AEP,UK:SILVER}...LID ASSY (US), CASSETTE	
	X-3349-820-1	{E:BLACK}.....LID ASSY (B), CASSETTE	
	X-3349-821-1	{E:SILVER}.....LID ASSY (S), CASSETTE	

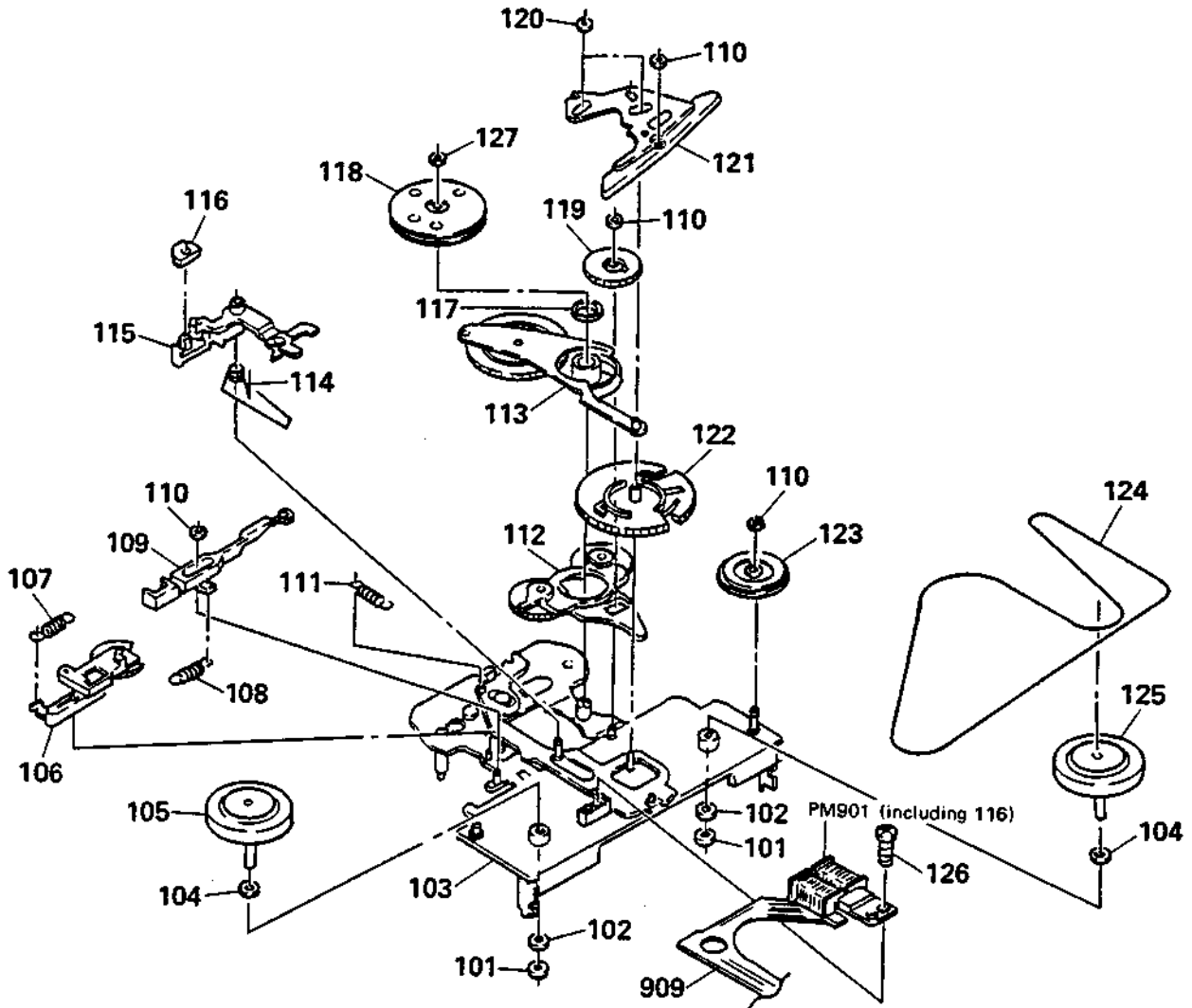
No.	Part No.	Description	Remarks
22	*3-309-595-00	SHEET, INSULATING, PACK	
23	3-350-911-01	TERMINAL BOARD (B), BATTERY	
24	3-350-912-01	CONTACT	
25	3-350-910-01	TERMINAL BOARD (A), BATTERY	
26	3-350-905-01	LID, BATTERY CASE	
27	3-350-927-01	SHEET (BATTERY DRAWER)	
28	3-350-953-01	SHEET (SWITCH)	
29	*3-350-928-01	CASE, SHIELD	
30	3-349-898-02	BUTTON (FF)	
31	3-349-897-02	BUTTON (PLAY)	
32	3-349-895-01	BUTTON (REW)	
33	3-349-896-01	BUTTON (STOP)	
34	3-350-981-11	SHEET (HOLDER)	
35	3-729-013-11	SCREW (M1.4X2), WASHER HEAD (+P)	
36	3-350-944-11	LEVER, LOCK	
37	3-350-903-01	SHAFT (LOCK LEVER)	
38	3-349-899-01	PLATE, ORNAMENTAL	
39	9-911-815-01	CUSHION	
901	A-3289-517-A	MOUNTED PCB (INS), AUDIO	
902	A-3216-625-A	MOUNTED PCB, SYSTEM CONTROL	
903	1-629-133-11	PC BOARD, FLEXIBLE	
904	1-571-799-11	SWITCH (BLOCK TYPE)	
905	1-629-136-11	PC BOARD, SWITCH FLEXIBLE	
906	1-629-131-11	PC BOARD, MAIN FLEXIBLE	
908	A-3289-515-A	MOUNTED PCB (INS), DOC	
J901	1-568-121-11	JACK (PHONES/REMOTE)	

5-2. Mechanism Section (MT-WM701C-17)-1



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	3-349-852-01	GEAR (C)		67	3-349-865-01	SPRING (PINCH LEVER R), TORSION	
52	3-349-830-01	GEAR (B)			3-349-865-11	SPRING (PINCH LEVER R), TORSION	
53	X-3349-808-1	GEAR (A) ASSY		68	3-349-878-01	GEAR (T REEL)	
54	3-331-047-03	SCREW (M1.4X1.8), SPECIAL HEAD		69	3-349-837-01	SPRING, COMPRESSION	
55	*3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE		70	3-349-827-11	WASHER	
56	3-704-382-31	SCREW (M1.4X2.5), TAPPING		71	3-349-877-01	GEAR (S REEL)	
57	3-349-836-01	SPRING (HEAD LEVER)		73	3-349-825-01	SCREW	
58	3-352-116-01	GUIDE (RIGHT), TAPE		74	X-3349-816-1	CHASSIS ASSY, MOTOR	
59	3-349-859-11	WASHER		75	A-3163-156-A	WHEEL ASSY, MOTOR	
60	3-349-864-01	SPRING (PINCH LEVER M), TORSION		76	3-349-803-01	PLATE, HYSTERESIS	
	3-349-864-11	SPRING (PINCH LEVER M), TORSION		77	3-349-868-01	PLATE, SHIELD	
61	X-3349-810-1	PINCH LEVER (N) ASSY		78	3-704-381-31	SCREW (M1.4X2.5), TAPPING, PAN	
62	X-3349-803-1	HOLDER ASSY		79	3-349-892-01	CHASSIS, SUB	
63	3-704-252-41	SCREW (M1.4X6)		80	9-911-839-XX	SPACER	
65	3-349-801-01	LEVER, HEAD		81	3-352-117-01	GUIDE (LEFT), TAPE	
66	X-3349-804-1	PINCH LEVER (R) ASSY		907	1-630-958-11	PC BOARD, HEAD FLEXIBLE	
				M901	1-462-274-11	COIL, MOTOR (STATOR)	
				HP901	1-543-576-11	HEAD, MAGNETIC (PLAY BACK)	

5-3. Mechanism Section (MT-WM701C-17)-2



No.	Part No.	Description	Remarks
101	3-348-993-01	WASHER	
102	3-350-989-01	WASHER	
103	X-3349-801-1	CHASSIS ASSY	
104	3-350-945-01	WASHER	
105	X-3349-809-1	WHEEL (H) ASSY, CAPSTAN	
106	X-3349-812-1	LEVER (S) ASSY	
107	3-349-816-01	SPRING, TENSION	
108	3-349-867-01	SPRING, TENSION	
109	3-349-880-01	LEVER (P), SW	
110	3-349-859-11	WASHER	
111	3-349-866-01	SPRING (POWER TENSION), TENSION	
112	X-3349-807-1	LEVER ASSY, FR	
113	X-3349-815-1	LEVER (T) ASSY	
114	3-349-860-01	SPRING, TORSION	
115	X-3349-814-1	LEVER (P) ASSY, TRIGGER	

No.	Part No.	Description	Remarks
116	*3-704-430-01	ARBOR, MOVABLE	
117	3-349-850-01	WASHER	
118	3-349-854-01	PULLEY	
119	3-349-853-01	GEAR (D)	
120	3-349-859-21	WASHER	
121	3-349-884-01	LEVER, MR	
122	3-349-889-01	GEAR (CAM)	
123	3-338-628-01	WHEEL, REVERSE	
124	3-349-814-01	BELT	
125	X-3349-813-1	WHEEL (R) ASSY, CAPSTAN	
126	3-345-648-03	SCREW (M1.4X4.0), TOOTHED LOCK	
127	3-349-859-01	WASHER	
909	1-629-130-11	PC BOARD, PLUNGER FLEXIBLE	
PM901	1-454-479-11	SOLENOID, PLUNGER	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

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

CAPACITORS:

MF: μ F, PF: μ μ 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...

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

Ref.No.	Part No.	Description			Ref.No.	Part No.	Description		
901	A-3289-517-A	MOUNTED PCB (INS), AUDIO			C217	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
902	A-3216-625-A	MOUNTED PCB, SYSTEM CONTROL			C218	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
903	1-629-133-11	PC BOARD, FLEXIBLE			C219	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
904	1-571-799-11	SWITCH (BLOCK TYPE)			C220	1-135-199-21	TANTAL. CHIP 1MF	10%	16V
905	1-629-136-11	PC BOARD, SWITCH FLEXIBLE			C301	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
906	1-629-131-11	PC BOARD, MAIN FLEXIBLE			C302	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
907	1-630-958-11	PC BOARD, HEAD FLEXIBLE			C303	1-135-131-11	TANTAL. CHIP 22MF	20%	4V
908	A-3289-515-A	MOUNTED PCB (INS), ODC			C304	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
909	1-629-130-11	PC BOARD, PLUNGER FLEXIBLE			C305	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C101	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	C306	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C102	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V	C307	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C103	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V	C308	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C104	1-164-156-11	CERAMIC CHIP 0.1MF		25V	C309	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
C105	1-135-199-21	TANTAL. CHIP 1MF	10%	16V	C310	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C106	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C311	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C107	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V	C312	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C108	1-135-131-11	TANTAL. CHIP 22MF	20%	4V	C313	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C109	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V	C314	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C110	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V	C315	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C111	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V	C316	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C112	1-164-172-11	CERAMIC CHIP 0.0056MF	5%	25V	C317	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C113	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V	C318	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C114	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V	C601	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C115	1-162-955-11	CERAMIC CHIP 150PF	5%	50V	C602	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C116	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V	C603	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C117	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V	C604	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C118	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V	C605	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C119	1-135-091-00	TANTAL. CHIP 1MF	20%	16V	C606	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C120	1-135-199-21	TANTAL. CHIP 1MF	10%	16V	C607	1-135-149-21	TANTAL. CHIP 2.2MF	20%	4V
C201	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	C608	1-162-993-11	CERAMIC CHIP 0.22MF	10%	16V
C202	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V	C609	1-135-149-21	TANTAL. CHIP 2.2MF	20%	4V
C203	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V	C701	1-164-234-11	CERAMIC CHIP 1MF		10V
C204	1-164-156-11	CERAMIC CHIP 0.1MF		25V	C702	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C205	1-135-199-21	TANTAL. CHIP 1MF	10%	16V	C703	1-164-234-11	CERAMIC CHIP 1MF		10V
C206	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C704	1-162-957-11	CERAMIC CHIP 220PF	5%	50V
C207	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V	C705	1-162-957-11	CERAMIC CHIP 220PF	5%	50V
C208	1-135-131-11	TANTAL. CHIP 22MF	20%	4V	C801	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C209	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V	C803	1-162-969-11	CERAMIC CHIP 0.0068MF	10%	25V
C210	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V	C804	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C211	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V	C805	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C212	1-164-172-11	CERAMIC CHIP 0.0056MF	5%	25V	C807	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C213	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V	C808	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C214	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V	C809	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C215	1-162-955-11	CERAMIC CHIP 150PF	5%	50V	C810	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C216	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V					



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D701	8-719-404-46	DIODE MA110	R107	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
D702	8-719-974-55	DIODE GL102R6	R108	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
D801	8-719-938-75	DIODE SB05-05CP	R109	1-218-271-11	METAL GLAZE 2K 5% 1/16W
D802	8-719-420-51	DIODE MA729	R110	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
D803	8-719-404-46	DIODE MA110	R111	1-216-845-11	METAL GLAZE 100K 5% 1/16W
FL101	1-236-323-11	FILTER, SP-SK	R112	1-216-839-11	METAL GLAZE 33K 5% 1/16W
FL201	1-236-323-11	FILTER, SP-SK	R113	1-216-841-11	METAL GLAZE 47K 5% 1/16W
HP901	1-543-576-11	HEAD, MAGNETIC (PLAY BACK)	R114	1-216-845-11	METAL GLAZE 100K 5% 1/16W
IC101	8-759-710-49	IC NJM2065AM	R115	1-216-833-11	METAL GLAZE 10K 5% 1/16W
IC201	8-759-710-49	IC NJM2065AM	R116	1-216-841-11	METAL GLAZE 47K 5% 1/16W
IC301	8-749-920-28	IC MHC8570EQ01L	R118	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
IC302	8-759-805-09	IC CXA1249M	R201	1-216-815-11	METAL GLAZE 330 5% 1/16W
IC303	8-759-231-14	IC TA8145FN-ER	R202	1-216-815-11	METAL GLAZE 330 5% 1/16W
IC601	8-759-821-20	IC LB1672M-T1	R203	1-216-832-11	METAL GLAZE 8.2K 5% 1/16W
IC701	8-759-144-86	IC UPD7508HG-640-22	R204	1-216-851-11	METAL GLAZE 330K 5% 1/16W
J901	1-568-321-11	JACK (PHONES/REMOTE)	R205	1-218-271-11	METAL GLAZE 2K 5% 1/16W
JR1A	1-216-295-00	METAL GLAZE 0 5% 1/10W	R206	1-218-273-11	METAL GLAZE 510K 5% 1/16W
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	R207	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
JR2A	1-216-295-00	METAL GLAZE 0 5% 1/10W	R208	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
JR2	1-216-296-00	METAL GLAZE 0 5% 1/8W	R209	1-218-271-11	METAL GLAZE 2K 5% 1/16W
JR3A	1-216-295-00	METAL GLAZE 0 5% 1/10W	R210	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	R211	1-216-845-11	METAL GLAZE 100K 5% 1/16W
JR4	1-216-864-11	METAL GLAZE 0 5% 1/16W	R212	1-216-839-11	METAL GLAZE 33K 5% 1/16W
L801	1-410-213-51	INDUCTOR CHIP 56UH	R213	1-216-841-11	METAL GLAZE 47K 5% 1/16W
L802	1-410-213-51	INDUCTOR CHIP 56UH	R214	1-216-845-11	METAL GLAZE 100K 5% 1/16W
L803	1-410-213-51	INDUCTOR CHIP 56UH	R215	1-216-833-11	METAL GLAZE 10K 5% 1/16W
M901	1-462-274-11	COIL, MOTOR (STATOR)	R216	1-216-841-11	METAL GLAZE 47K 5% 1/16W
PH701	8-719-710-35	DIODE, PHOTO NJL5161K-B	R218	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
PM901	1-454-479-11	SOLENOID, PLUNGER	R301	1-216-809-11	METAL GLAZE 100 5% 1/16W
Q301	8-729-230-74	TRANSISTOR 2SA1362	R302	1-216-825-11	METAL GLAZE 2.2K 5% 1/16W
Q302	8-729-403-17	TRANSISTOR XN1215	R303	1-216-832-11	METAL GLAZE 8.2K 5% 1/16W
Q303	8-729-402-16	TRANSISTOR XN4608	R304	1-216-837-11	METAL GLAZE 22K 5% 1/16W
Q304	8-729-420-53	TRANSISTOR UN5115	R305	1-216-823-11	METAL GLAZE 1.5K 5% 1/16W
Q601	8-729-162-43	TRANSISTOR 2SB624-BV3	R306	1-216-851-11	METAL GLAZE 330K 5% 1/16W
Q602	8-729-162-43	TRANSISTOR 2SB624-BV3	R307	1-216-851-11	METAL GLAZE 330K 5% 1/16W
Q701	8-729-403-27	TRANSISTOR XN4401	R308	1-216-845-11	METAL GLAZE 100K 5% 1/16W
Q702	8-729-420-50	TRANSISTOR UN5215	R310	1-216-809-11	METAL GLAZE 100 5% 1/16W
Q703	8-729-420-50	TRANSISTOR UN5215	R311	1-216-845-11	METAL GLAZE 100K 5% 1/16W
Q704	8-729-402-16	TRANSISTOR XN4608	R312	1-216-833-11	METAL GLAZE 10K 5% 1/16W
Q705	8-729-403-17	TRANSISTOR XN1215	R313	1-216-845-11	METAL GLAZE 100K 5% 1/16W
Q706	8-729-402-16	TRANSISTOR XN4608	R314	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
Q707	8-729-402-16	TRANSISTOR XN4608	R315	1-216-851-11	METAL GLAZE 330K 5% 1/16W
Q708	8-729-420-50	TRANSISTOR UN5215	R602	1-218-330-11	METAL GLAZE 11K 5% 1/16W
Q709	8-729-420-53	TRANSISTOR UN5115	R603	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
Q801	8-729-117-16	TRANSISTOR 2SA1611	R606	1-216-809-11	METAL GLAZE 100 5% 1/16W
Q802	8-729-117-32	TRANSISTOR 2SC4177	R607	1-216-809-11	METAL GLAZE 100 5% 1/16W
Q803	8-729-400-56	TRANSISTOR 2SD1328	R608	1-216-815-11	METAL GLAZE 330 5% 1/16W
Q804	8-729-117-16	TRANSISTOR 2SA1611	R609	1-216-849-11	METAL GLAZE 220K 5% 1/16W
R101	1-216-815-11	METAL GLAZE 330 5% 1/16W	R610	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R102	1-216-815-11	METAL GLAZE 330 5% 1/16W	R611	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R103	1-216-832-11	METAL GLAZE 8.2K 5% 1/16W	R701	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R104	1-216-851-11	METAL GLAZE 330K 5% 1/16W	R702	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R105	1-218-271-11	METAL GLAZE 2K 5% 1/16W	R703	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R106	1-218-273-11	METAL GLAZE 510K 5% 1/16W	R704	1-216-833-11	METAL GLAZE 10K 5% 1/16W
			R705	1-216-833-11	METAL GLAZE 10K 5% 1/16W
			R706	1-216-833-11	METAL GLAZE 10K 5% 1/16W
			R707	1-216-833-11	METAL GLAZE 10K 5% 1/16W

Ref.No.	Part No.	Description
R709	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R710	1-216-861-11	METAL GLAZE 2.2M 5% 1/16W
R711	1-216-861-11	METAL GLAZE 2.2M 5% 1/16W
R712	1-216-861-11	METAL GLAZE 2.2M 5% 1/16W
R713	1-216-861-11	METAL GLAZE 2.2M 5% 1/16W
R714	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R717	1-216-849-11	METAL GLAZE 220K 5% 1/16W
R718	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R719	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R720	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R721	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R722	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R723	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R724	1-216-816-11	METAL GLAZE 390 5% 1/16W
R725	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R726	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R727	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R729	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R730	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R731	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R733	1-216-816-11	METAL GLAZE 390 5% 1/16W
R734	1-216-816-11	METAL GLAZE 390 5% 1/16W
R735	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R736	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R737	1-216-834-11	METAL GLAZE 12K 5% 1/16W
R738	1-216-834-11	METAL GLAZE 12K 5% 1/16W
R739	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R801	1-216-823-11	METAL GLAZE 1.5K 5% 1/16W
R803	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R804	1-216-814-11	METAL GLAZE 270 5% 1/16W
R805	1-216-800-11	METAL GLAZE 18 5% 1/16W
R806	1-216-825-11	METAL GLAZE 2.2K 5% 1/16W
R807	1-216-216-00	METAL GLAZE 5.6K 5% 1/8W
R808	1-216-823-11	METAL GLAZE 1.5K 5% 1/16W
R809	1-216-809-11	METAL GLAZE 100 5% 1/16W
RV301	1-238-429-11	RES, VAR, CARBON 10K/10K (VOLUME)
RV601	1-238-202-11	RES, ADJ, METAL GLAZE 2.2K (SPEED)
S301	1-571-275-11	SWITCH, SLIDE (TAPE)
S302	1-571-506-11	SWITCH, SLIDE (DOLBY NR)
S303	1-571-584-11	SWITCH, SLIDE (FWD/REV)
S304	1-571-506-11	SWITCH, SLIDE (DBB)
S701	1-571-275-11	SWITCH, SLIDE (MODE)
S702	1-570-395-11	SWITCH, LEAF (PLAY)

Ref.No.	Part No.	Description
T801	1-449-466-21	TRANSFORMER, DC-DC CONVERTER
X701	1-577-306-11	OSCILLATOR, CERAMIC (1MHz)

ACCESSORY & PACKING MATERIAL

1-505-094-11	(E)...HEADPHONE (WITH REMOCON)
1-505-104-11	(US,AEP,UK)...HEADPHONE SET(WITH REMOCON)
△1-526-565-12	(E)...AC PLUG ADAPTOR
1-528-231-11	BATTERY,NICKEL CADMIUM (NC-6WM)
△1-528-234-12	(E)....BATTERY CHARGER (BC-7L)
△1-528-249-11	(US)....BATTERY CHARGER (BC-7S)
△1-528-251-11	(AEP)...BATTERY CHARGER (BC-7S)
△1-528-252-11	(UK)....BATTERY CHARGER (BC-7S)
1-550-460-11	BATTERY CASE
△1-568-133-11	ADAPTOR, PLUG
3-350-942-01	PORCH, CARRYING
*3-350-994-01	(E)...CUSHION (UPPER)
*3-350-995-01	(E)...CUSHION (UPPER)
*3-350-996-01	(E).....INDIVIDUAL CARTON
*3-352-130-01	(US,AEP,UK)...INDIVIDUAL CARTON
3-786-809-01	(E).....MANUAL, INSTRUCTION
3-786-809-11	(US,UK)...MANUAL, INSTRUCTION
3-786-809-21	(AEP)....MANUAL, INSTRUCTION
3-786-809-41	(AEP)....MANUAL, INSTRUCTION
X-3329-657-1	(E)...ATTACHMENT ASSY

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