

WM-EX550/EX552

SERVICE MANUAL

AEP Model

E Model

WM-EX550/EX552

Tourist Model

WM-EX552



Photo: WM-EX550

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MT-WMEX550-125

SPECIFICATIONS

Tape Section

Frequency response (Dolby NR off)
Playback: 20 - 18,000 Hz

Output

Headphones \odot REMOTE jack
Load impedance 8 - 300 ohms
Power output
4 mW + 4 mW (16 ohms)

General

Power requirements

1.5 V
One R6 (size AA) battery

Dimensions (w/h/d)

Approx. 108.9 x 79.6 x 28.6 mm,
incl. projecting parts and controls

Mass

Approx. 145 g
EX552: Approx. 240 g
(incl. battery, headphones with
remote control and cassette)
EX550: Approx. 235 g
(incl. battery, headphones and
cassette)

Supplied accessories

- Stereo headphones with remote control (1) (EX552 only)
- Clip (1) (EX552 only)
- Stereo headphones (1) (EX550 only)
- Carrying case (1)
- AC plug adaptor (1) (EX552, Tourist model only)
- Rechargeable battery NC-AA, 1.2 V, 600 mAh, Ni-Cd (1) (EX552, Tourist model only)
- Battery charger (1) (EX552, Tourist model only)
- Sony battery R6P (SR) (1) (EX552, Tourist model only)

Design and specifications are subject to change without notice.

When to replace the battery

Replace the battery with a new one when the BATT lamp dims.

Battery life (Approx. hours)

	Sony alkaline LR6 (SG)	Sony R6P (SR)
Tape playback	29	8

Note

- The battery life may shorten depending on the operation of the unit.

For maximum performance we recommend that you use an alkaline battery.

Notes

- Do not charge a dry battery.
- When the battery is replaced the setted functions will be cancelled, the unit will return to the factory settings.
- When you do not use the Walkman for a long time, remove the battery to avoid any damage caused by battery leakage and subsequent corrosion.

House Current (see Fig. A-②)

Connect the AC power adaptor AC-E15HG (not supplied) to the DC IN 1.5V jack and to the wall outlet. Do not use any other AC power adaptor.



Polarity of the plug

CASSETTE PLAYER

SONY®



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SERVICING NOTES

Flexible Circuit Board Repairing

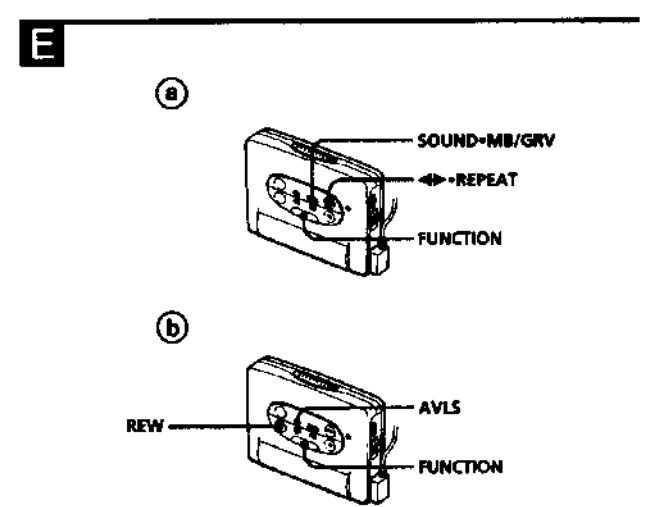
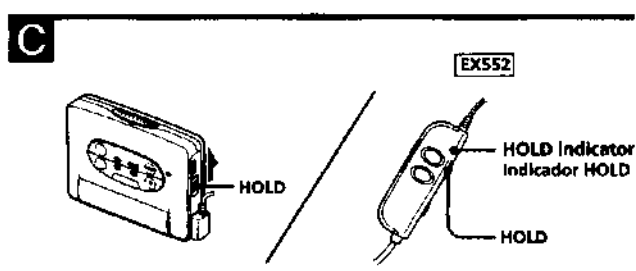
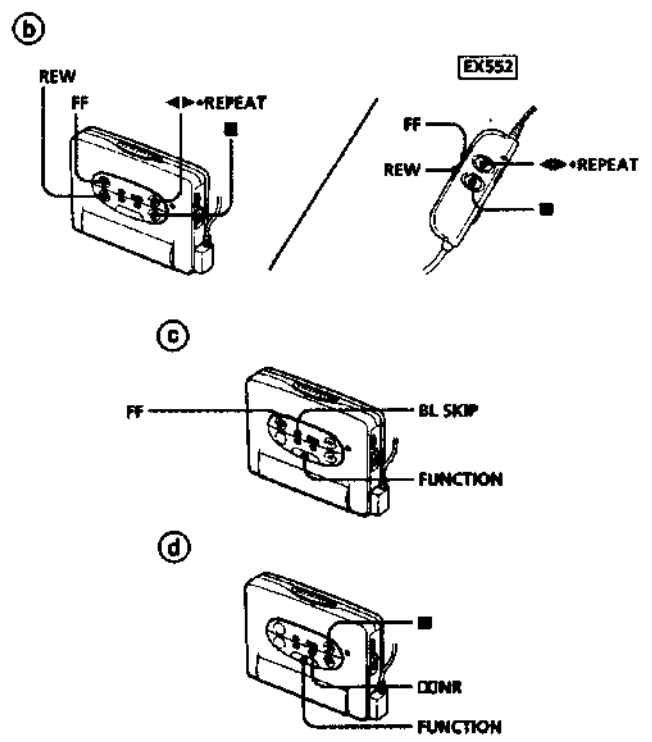
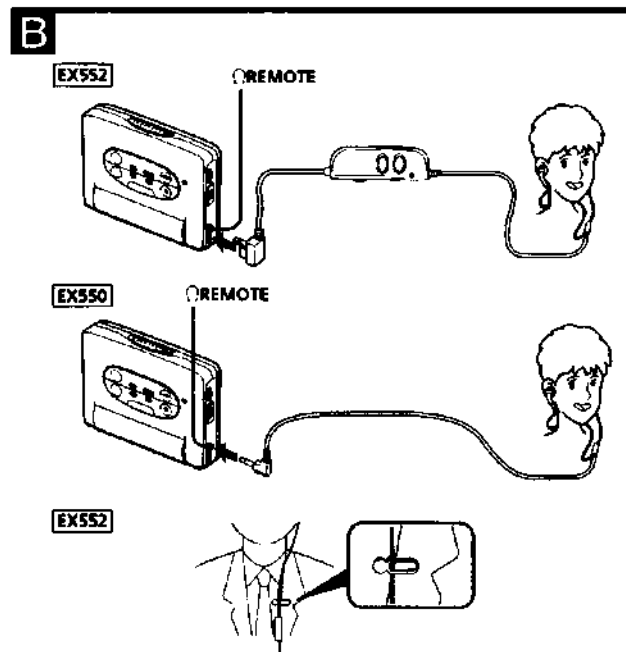
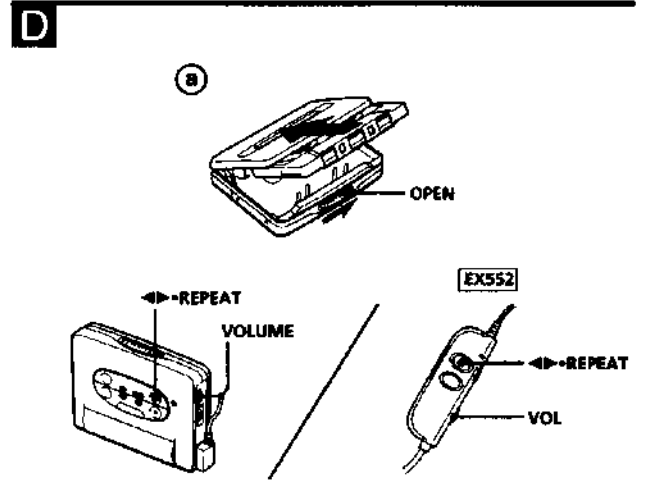
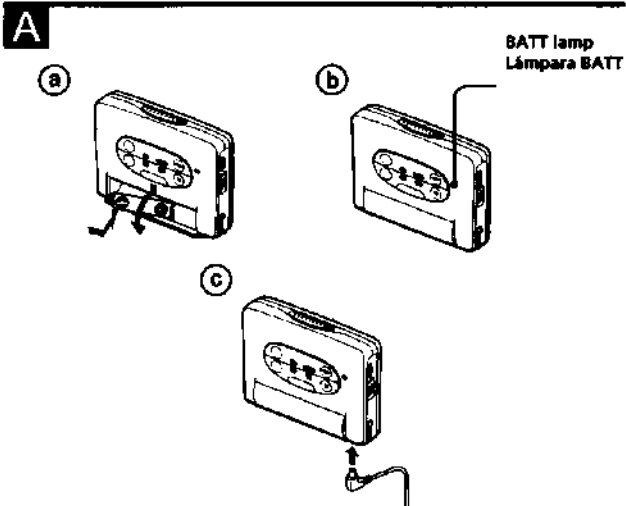
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering

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.

SECTION 1 GENERAL

This section is extracted from instruction manual.



SECTION 1 SERVICING NOTE

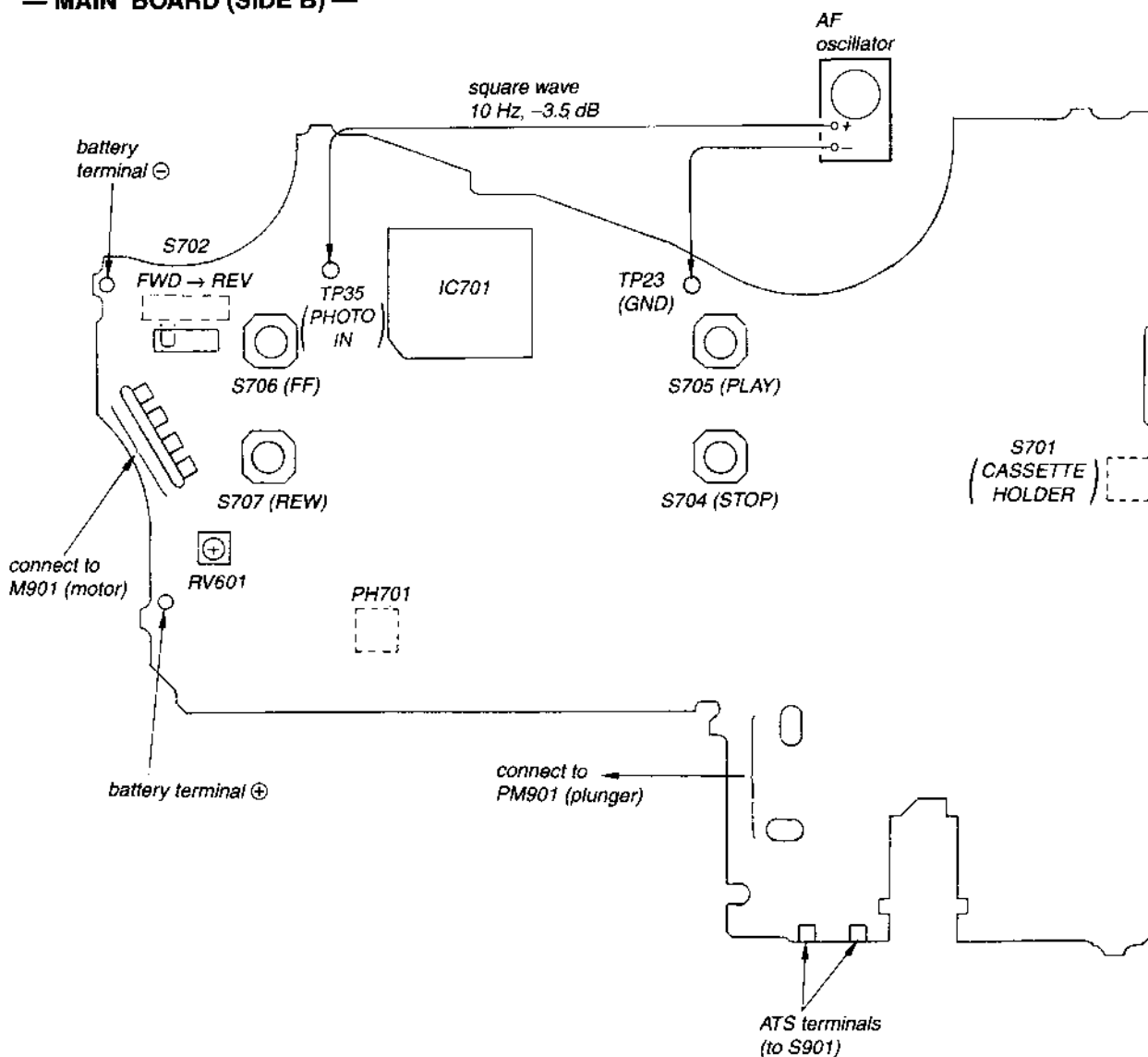
This set detects the rotation of GEAR (PH) using the PH701 (photo reflector). The PH701 is mounted on the MAIN board, and therefore the GEAR cannot be detected with the MAIN board removed. As a result, the motor cannot be controlled, causing malfunction. Further, the S702 (FWD/REV switch) is also mounted on the MAIN board, and with the board removed, the mechanism position cannot be detected and the operation is not changed over. Therefore, when the voltage check is executed with the MAIN board removed, follow the procedure provided below.

Note : Do not move the S702 switch position when removing the MAIN board.

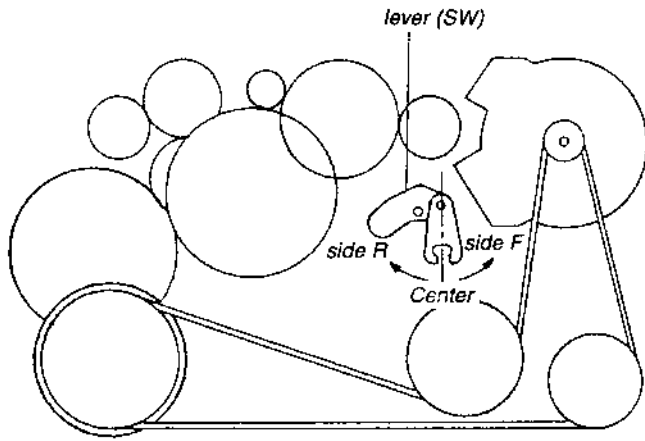
If it is moved, the set will not be changed over to the selected mode. In this case, reconnect the MAIN board to the set and retry the work from the beginning.

1. Setting
 - 1) Refer to "3. DISASSEMBLY", and remove the cabinet and open the MAIN board.
 - 2) Connect the MAIN board to the M901 (motor) and PM901 (plunger) using jumper wires.
 - 3) Short the ATS terminals.
 - 4) Press and fixed the S701 (CASSETTE HOLDER).
 - 5) Supply 1.5V to the battery terminals ⊕ and ⊖ using a stabilized power supply.
2. FF, REW Modes
 - 1) Input a square wave to the TP35 (PHOTO IN) and TP23 (GND). (See figure below)
 - 2) Press the S704 (STOP) for selecting STOP mode.
 - 3) Press the S706 (FF) or S707 (REW).
3. PLAY mode
 - 1) Input a square wave to the TP35 (PHOTO IN) and TP23 (GND). (See figure below)
 - 2) Press the S704 (STOP) for selecting STOP mode.
 - 3) Press the S705 (PLAY). (Each time the switch is pressed, the mode is changed over.)

— MAIN BOARD (SIDE B) —

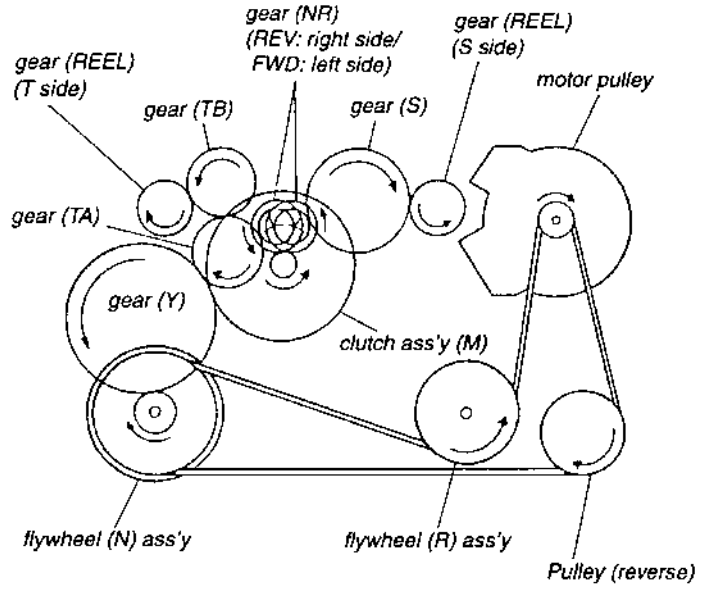


Lever (SW)

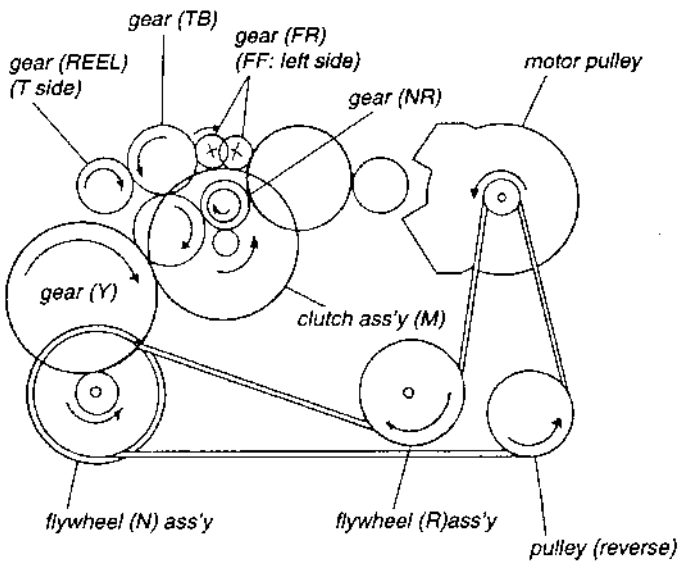


Rotation system

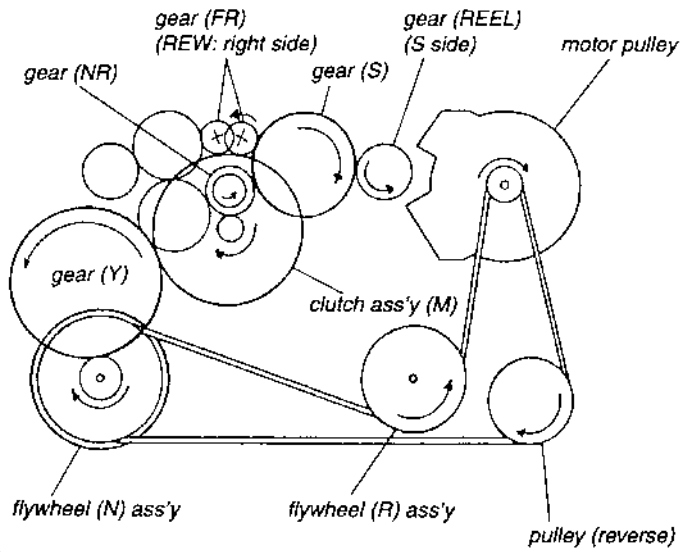
Rotation system during PLAY.



Rotation system during FF.

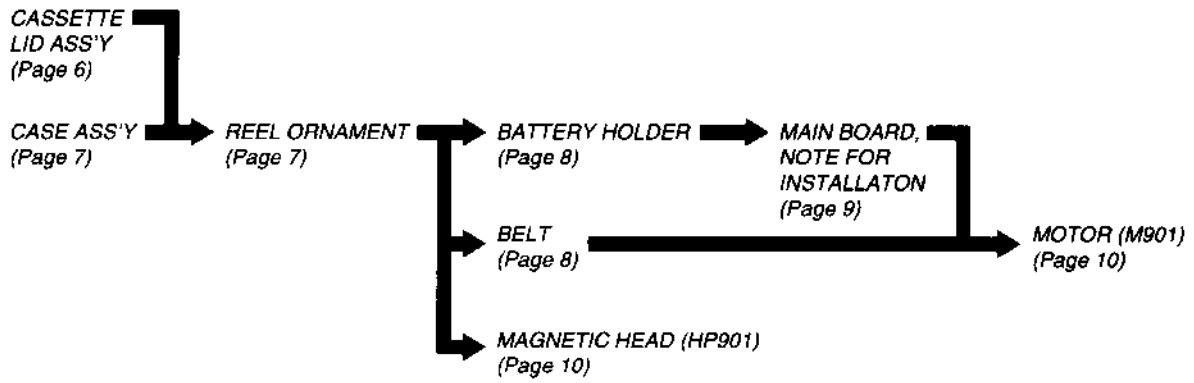


Rotation system during REW.



SECTION 3 DISASSEMBLY

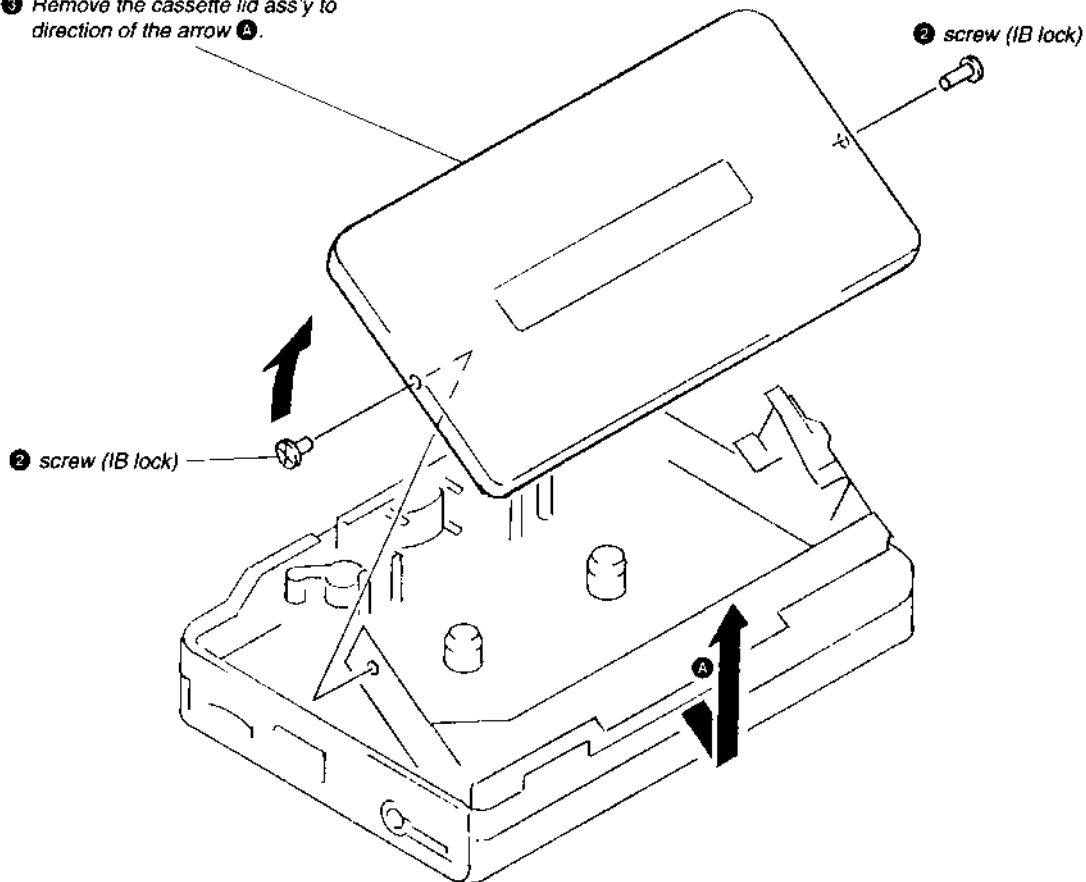
• This set can be disassembled in the order shown below.



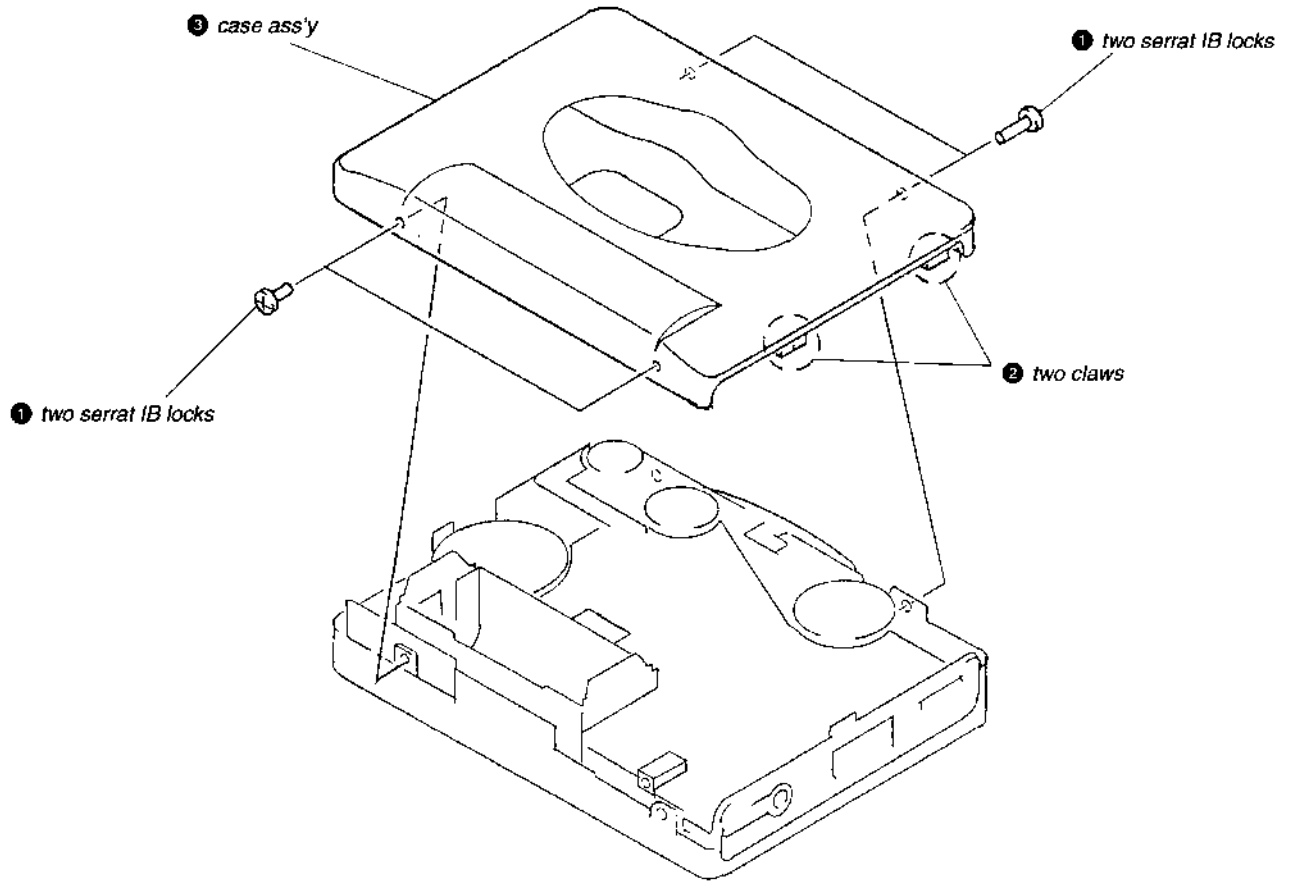
Note: Follow the disassembly procedure in the numerical order given.

CASSETTE LID ASS'Y

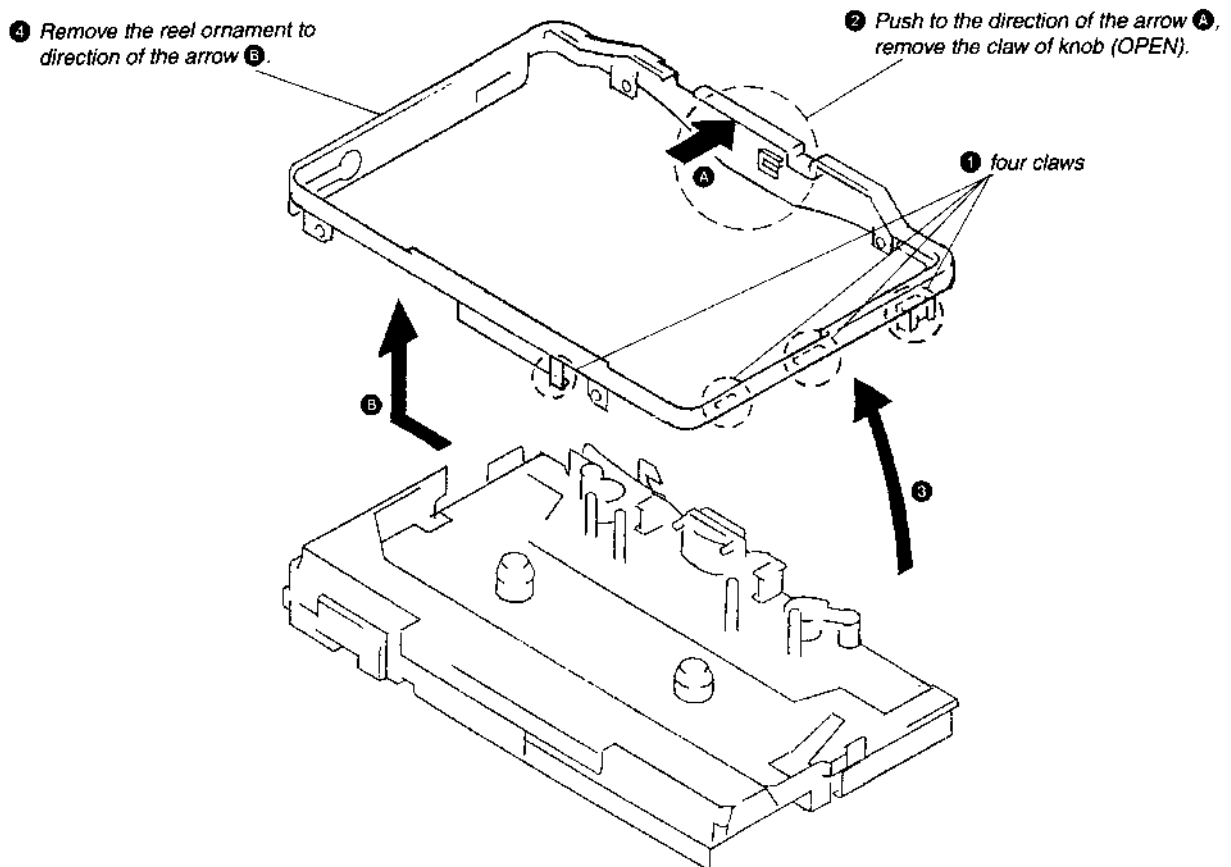
- 1 Open the cassette lid ass'y.
- 2 Remove the cassette lid ass'y to direction of the arrow ①.



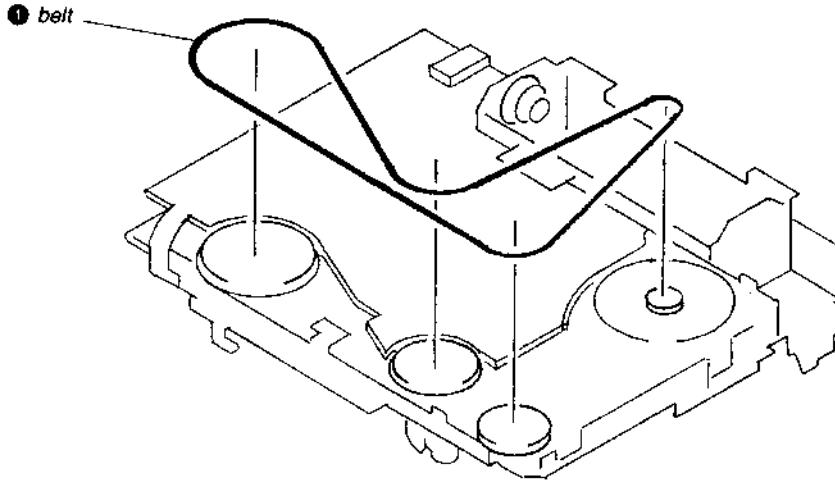
CASE ASS'Y



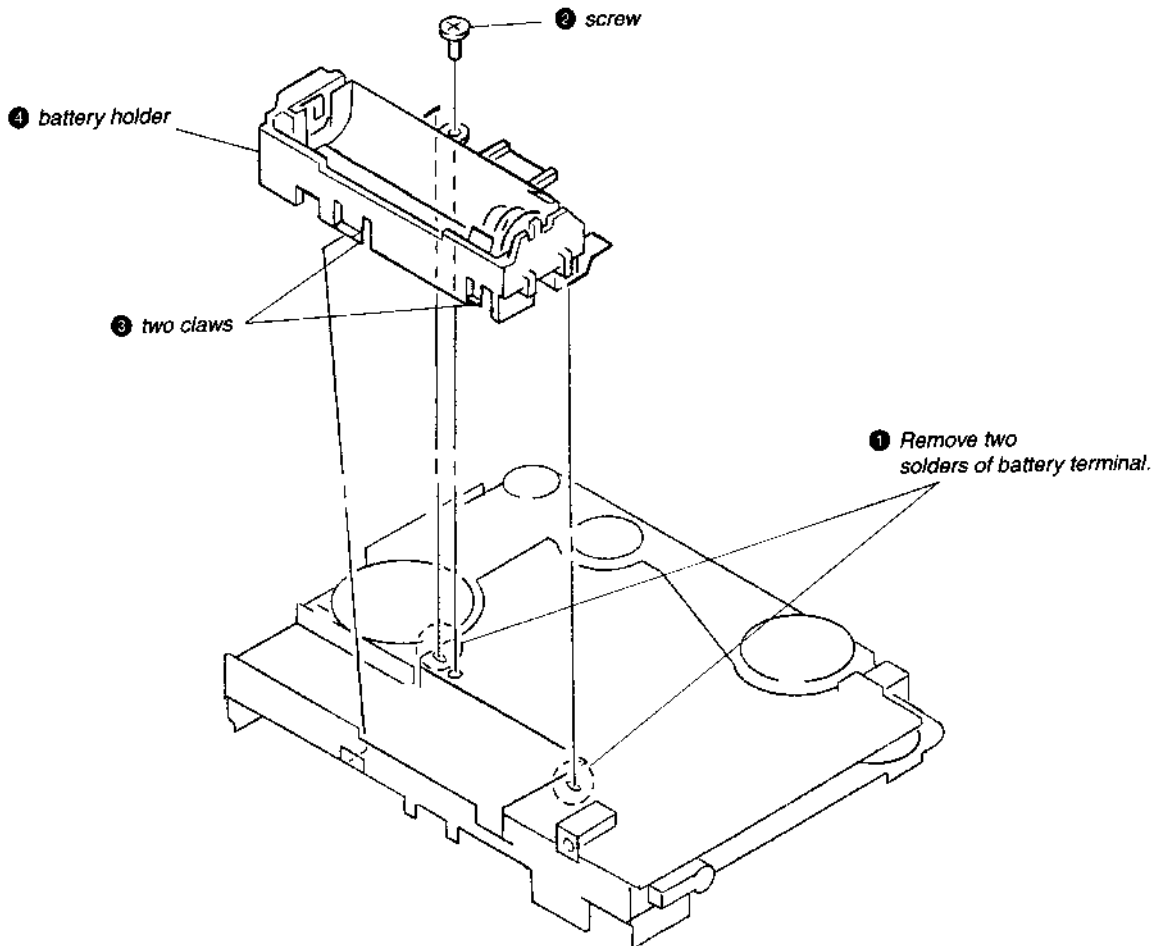
REEL ORNAMENT



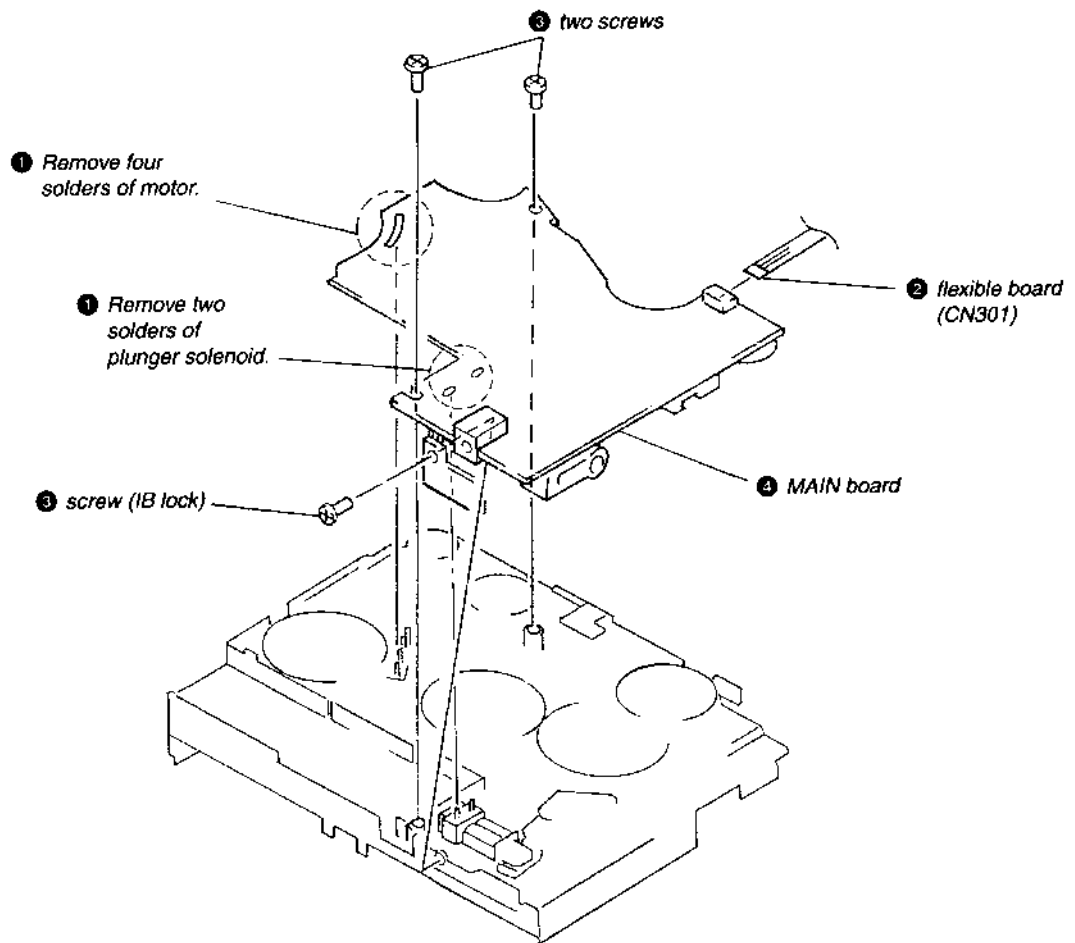
BELT



BATTERY HOLDER



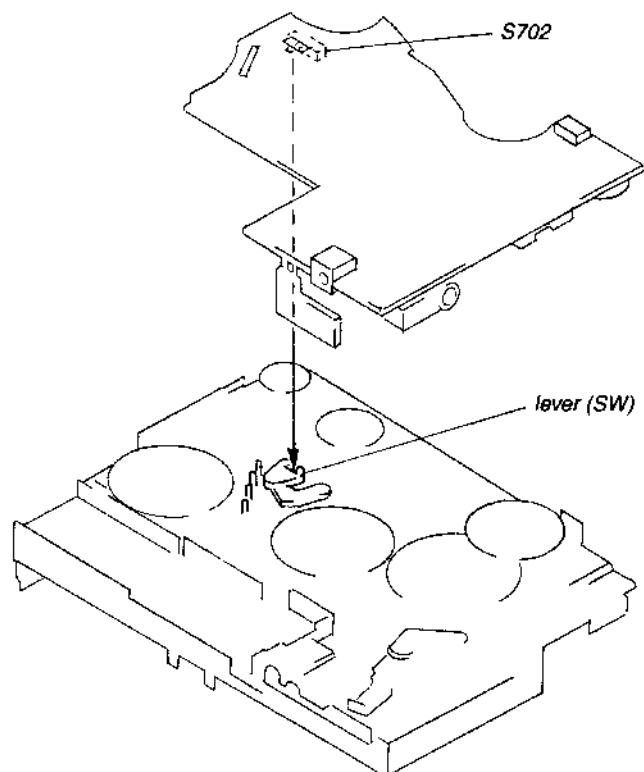
MAIN BOARD



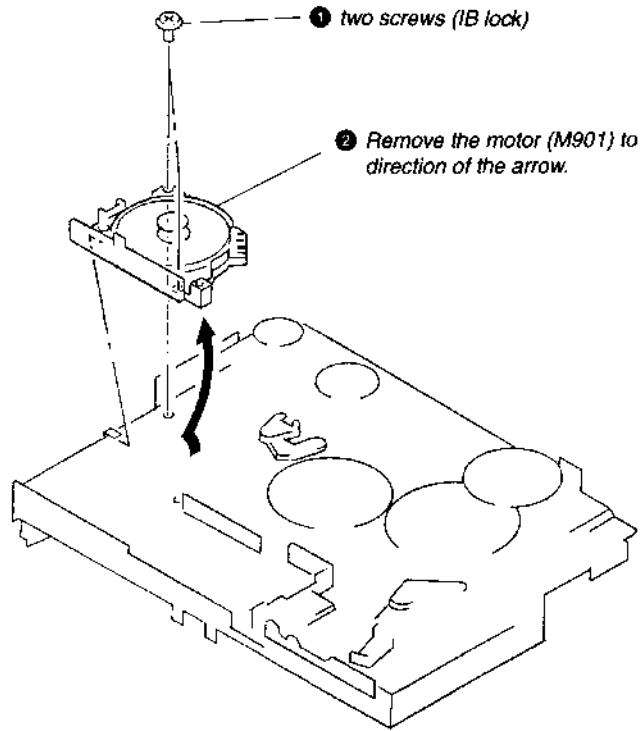
NOTE FOR INSTALLATION

• MAIN BOARD

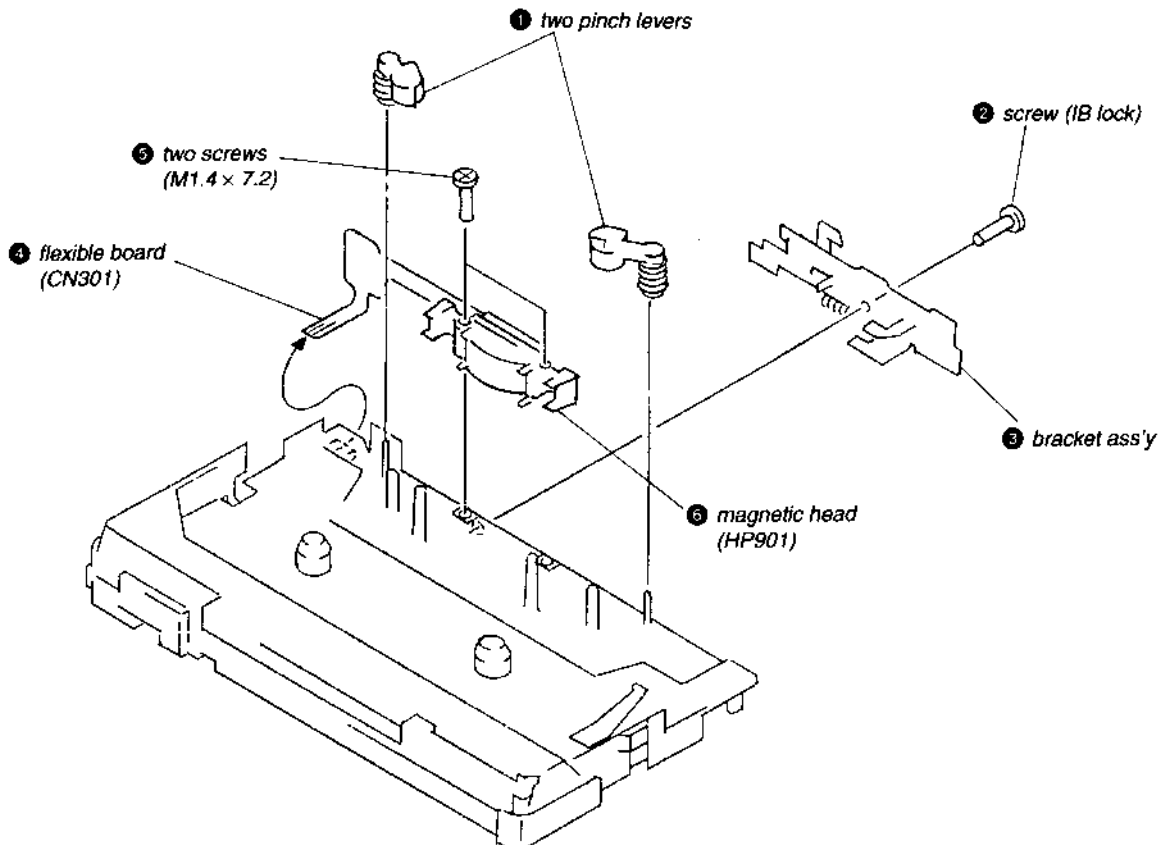
On installation MAIN board adjust the S702 and lever (SW)



MOTOR (M901)



MAGNETIC HEAD (HP901)



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head	pinch roller
rubber belts	capstan
2. Demagnetize the record/playback head with a head demagnetizer.
(Do not bring the head demagnetizer close to the erase head.)
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 (1.3 V) unless otherwise noted.

Torque Measurement:

Mode	Torque meter	Meter reading
FWD	CQ-102C	18 - 30 g•cm (0.25 - 0.41 oz•inch)
FWD back tension		0.7 - 2.0 g•cm (0.006 - 0.027 oz•inch)
REV	CQ-102RC	18 - 30 g•cm (0.25 - 0.41 oz•inch)
REV back tension		0.7 - 2.0 g•cm (0.006 - 0.027 oz•inch)
FF	CQ-201B	more than 35g•cm
REW		(more than 0.49 oz•inch)

SECTION 5 ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Specified voltage: 1.3 V.
2. Switch position
DOLBY NR switch: OFF
MEGA BASS switch: NORM

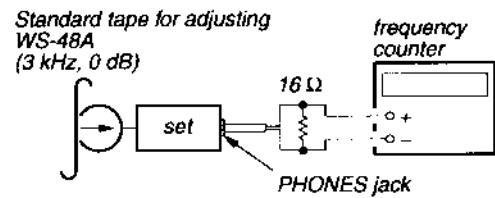
Cassette Section

Standard tape

Product name	Recorded contents	Purpose
WS-48A	3 kHz, 0 dB	For adjusting speed

[Tape Speed Adjustment]

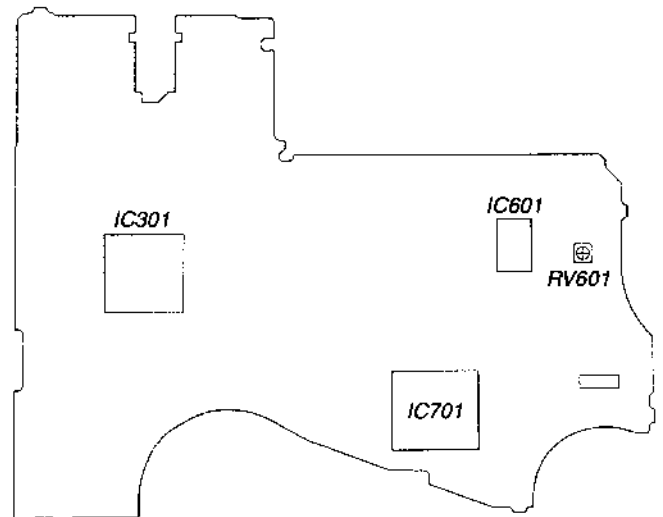
Procedure:



1. Playback WS-48A (tape center part) in the FWD state and adjust RV601 so that the frequency counter reading becomes 3000 ± 10 Hz.
2. Playback WS-48A (tape center) in the REV state.
Check that the frequency counter reading is within 2.5 % of the reading of step 1.

Adjustment Point:

MAIN BOARD - Side B -



SECTION 6 DIAGRAMS

6-1. IC PIN FUNCTION DESCRIPTION

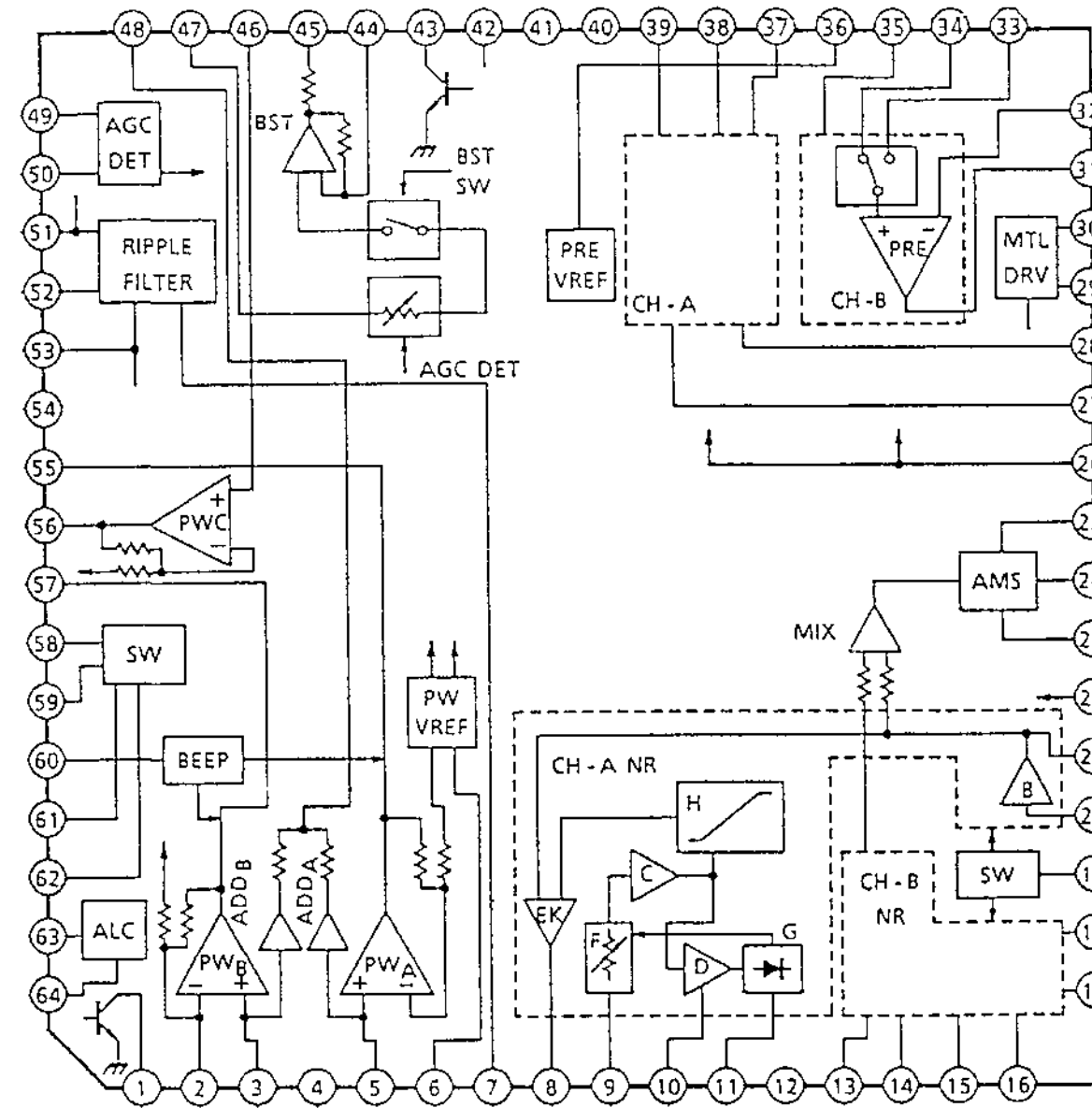
• MAIN BOARD IC701 MSM6576-79GS-K (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	M.CTL	O	The output terminal for the control signal to start the motor Turn the motor when set to "H"
2	M.DIR	O	The output terminal for selecting the rotating direction of the motor Turn the motor counterclockwise when set to "H", and clockwise when set to "L"
3	M.BRK	O	The output terminal for the brake signal to be applied to the motor Turn the brake on when set to "H"
4	RESET	I	System reset signal input from the reset signal generator (IC703) "H": reset
5	TEST1	I	The input terminal for the test (fixed at "L")
6	TEST2	I	
7	TEST3	I	
8	L.DOLBY	O	The output terminal for the LED drive signal of the NR indicator (D708) "H": LED on
9	L.AVLS	O	The output terminal for the LED drive signal of the AVLS indicator (D707) "H": LED on
10	L.BATT	O	The output terminal for the LED drive signal of the BATT indicator (D703) "H": LED on
11	L.BLSKIP	O	The output terminal for the LED drive signal of the BL SKIP indicator (D706) "H": LED on
12	MUTE CTL	O	The output terminal of the muting signal "L": mute on
13	PM CTL	O	The output terminal for the plunger drive signal "H": plunger on
14	PHOTO CTL	O	Control signal output to the motor rotation detect circuit "H": rotation detect circuit on
15	XTB	—	Connected to crystal oscillator (X701 32.768 kHz) for the system clock
16	XT	—	Connected to crystal oscillator (X701 32.768 kHz) for the system clock
17	VDD	—	Power supply terminal (+1.5V)
18	VSS1	—	Ground terminal
19	VCM	—	Increases power supply voltage
20	VCP	—	
21	VSS2	—	
22	VEE	—	
23	SET STOP1	I	Battery voltage detect input terminal Middle point voltage (+0.75V) input in this set
24	SET STOP2	I	Battery voltage detect input terminal
25	KEY IN	I	Key input terminal (A/D input)
26	HOLDER SW	I	Cassette holder open/close detect switch (S701) input "H": cassette holder close, "L": cassette holder open
27	BEEP	O	Beep sound signal output (frequency: 1.6 kHz)
28	AMS IN	I	AMS (Automatic Music Sensor) control signal input from the TA2072AF (IC301)
29	RMUM	I	Communication request signal input from the remote commander
30	DATA	O	Data output to the remote commander
31	DOLBY CTL	O	Dolby NR on/off control signal output to the TA2072AF (IC301) "H": dolby NR on
32	DDC CTL	O	Control signal output to the DC/DC converter circuit "H": power on
33	F/R CTL	O	FWD/REV select signal output to the TA2072AF (IC301) "H": FWD, "L": REV
34	L.MB	O	The output terminal for the LED drive signal of the SOUND MB indicator (D705) "H": LED on
35	L.GRV	O	The output terminal for the LED drive signal of the SOUND GRV indicator (D704) "H": LED on
36	FWD SW	I	Tape direction switch (S702) input "H": FWD
37	REV SW	I	Tape direction switch (S702) input "H": REV
38	PHOTO IN	I	Detect signal input from the motor rotation detect circuit

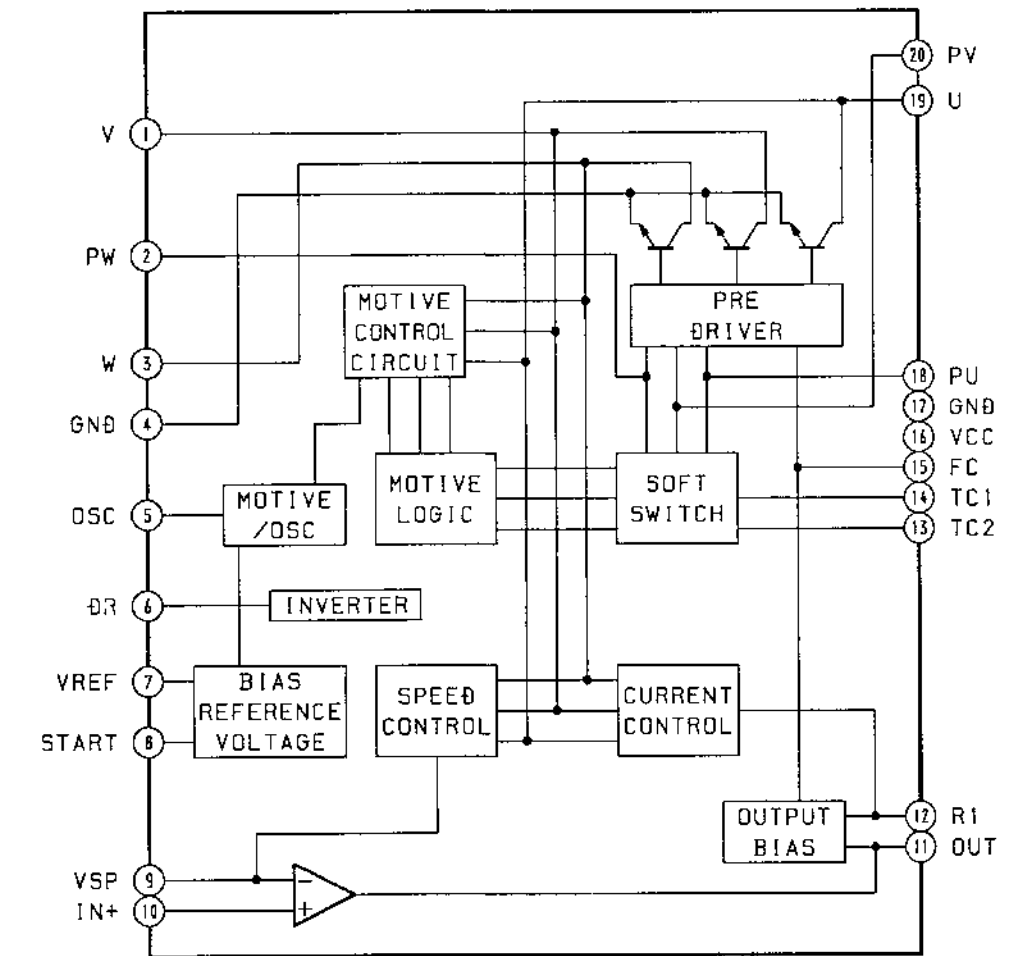
Pin No.	Pin Name	I/O	Function
39	VDD	—	Power supply terminal (+1.5V)
40	BOOST CTL	O	Boost on/off control signal output to the TA2072AF (IC301)
41	MB/GRV CTL	O	MEGA BASS/GROOVE select signal output to the TA2072AF (IC301)
42	LOAD CTL	O	Load control signal output terminal
43	AVLS CTL	O	AVLS (Automatic Volume Limiter System) on/off control signal input from the TA2072AF (IC301)
44	AMP CTL	O	Amp control signal output to the TA2072AF (IC301)

• IC Block Diagrams

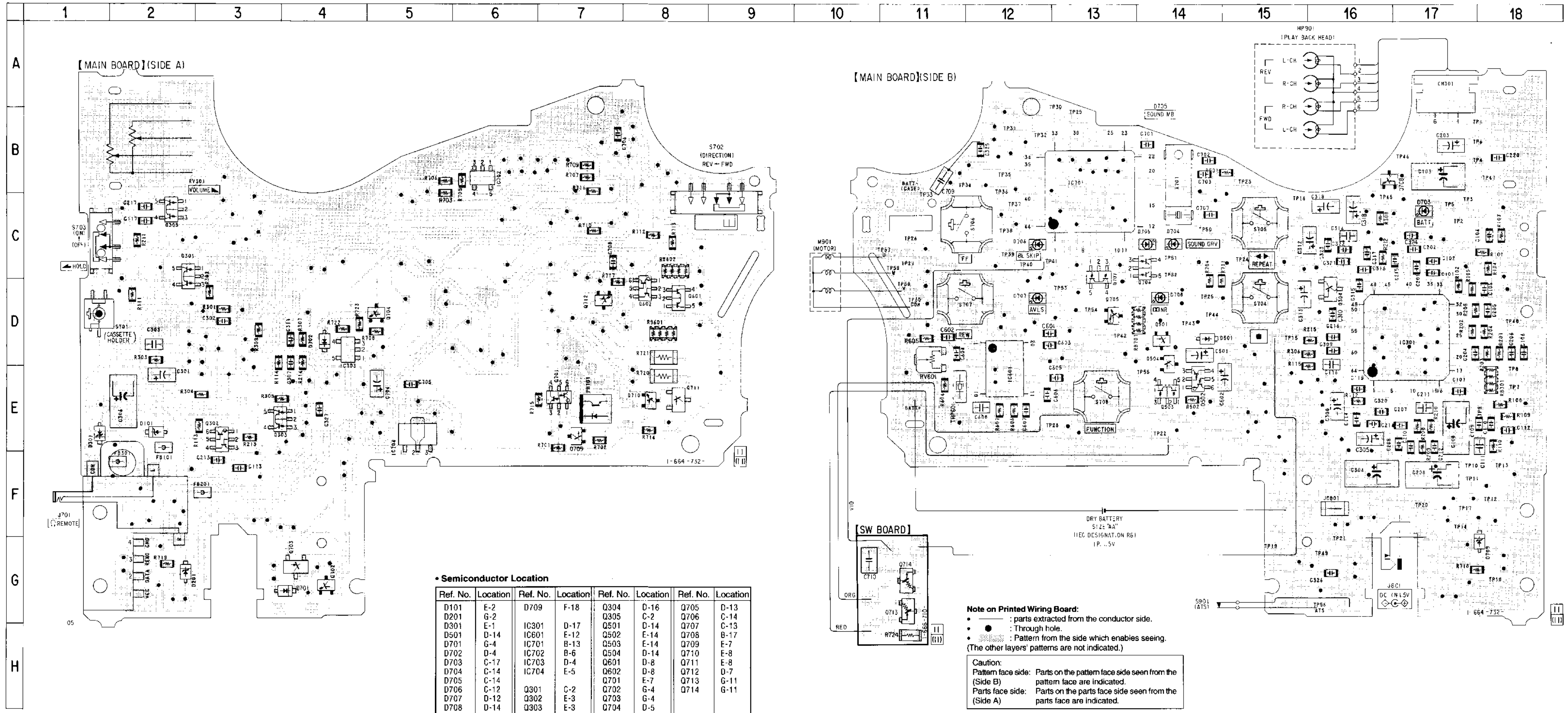
IC301 TA2072AF



IC601 MM1279XVBE



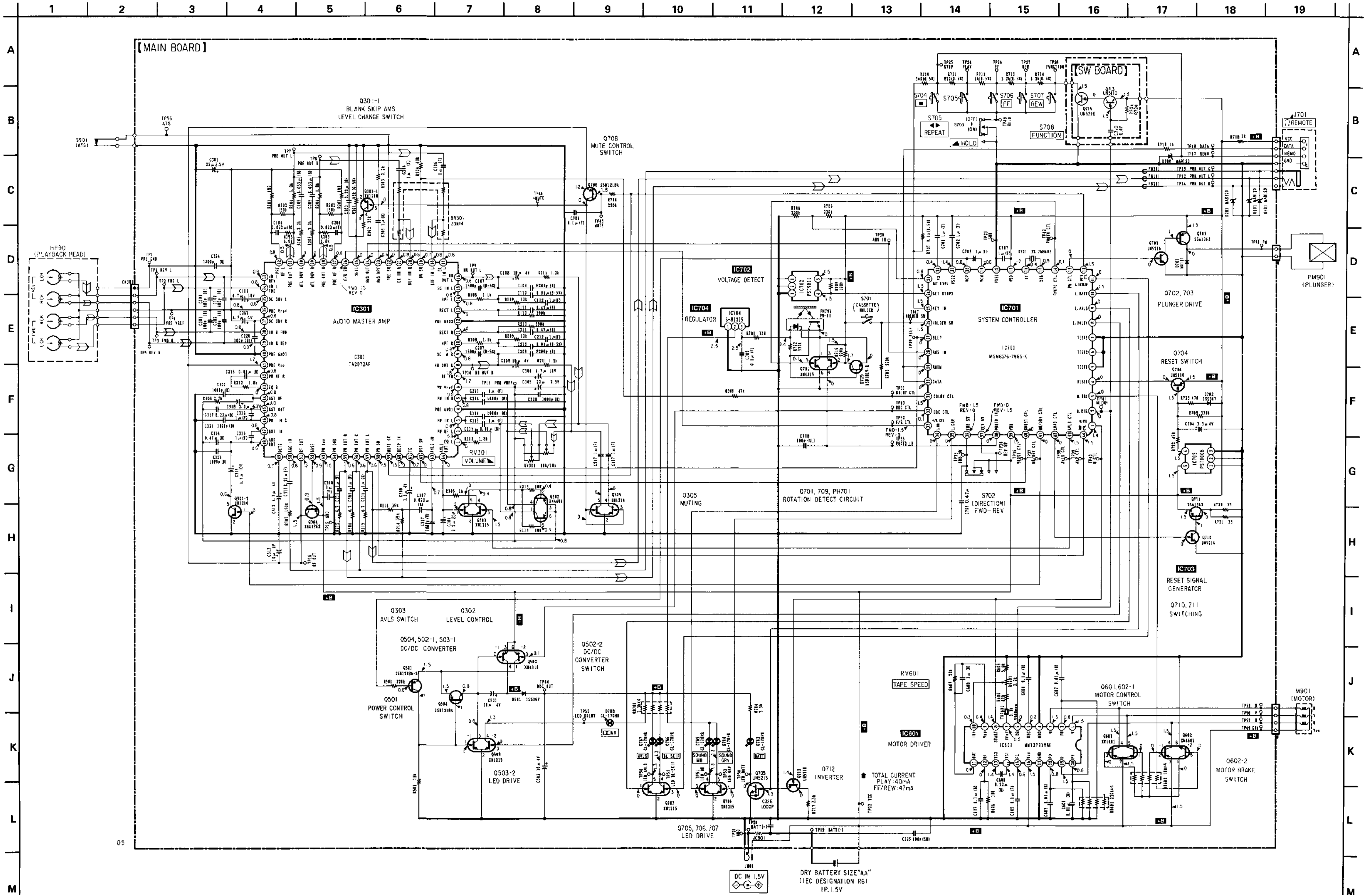
6-2. PRINTED WIRING BOARD



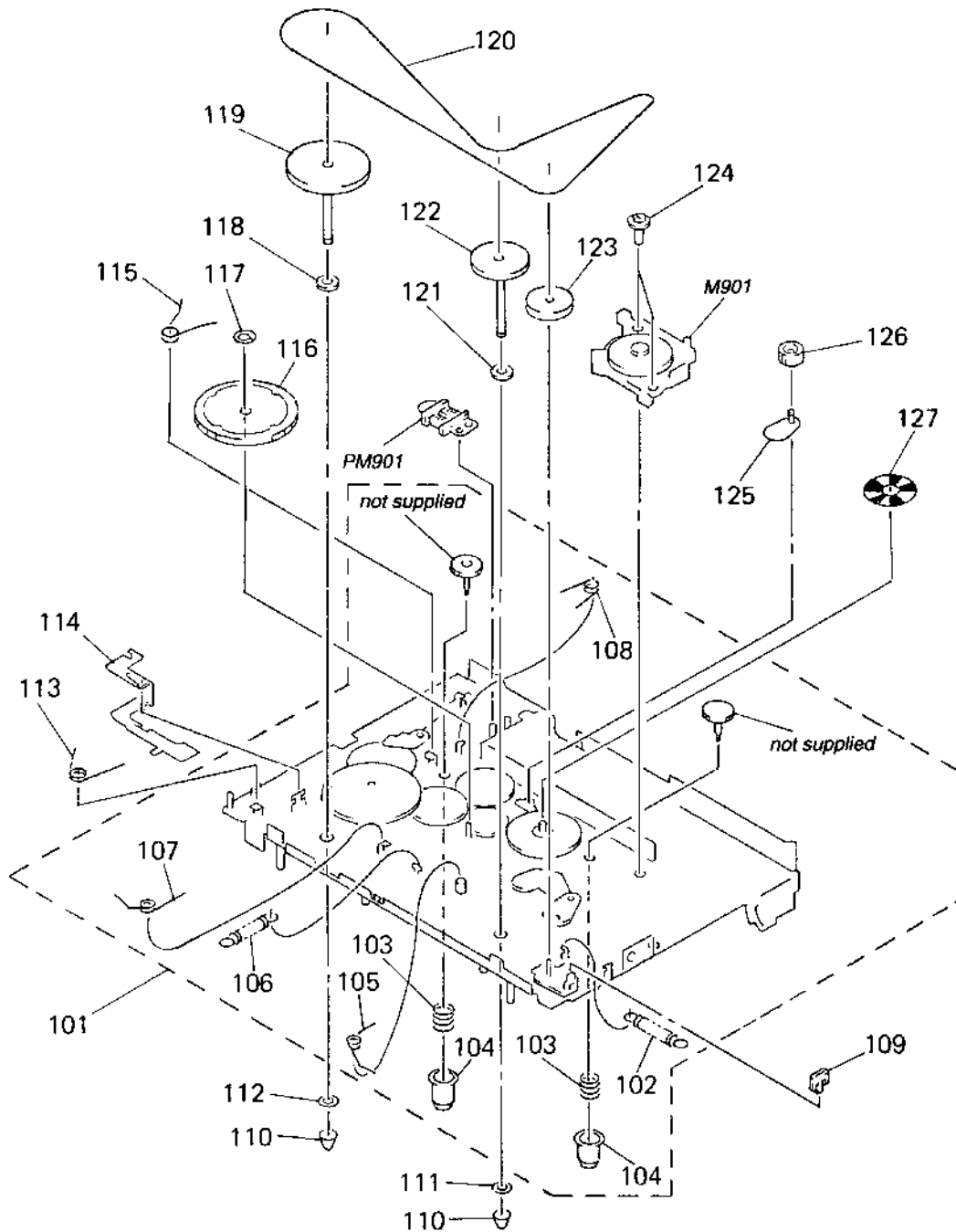
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV 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.
 - : panel designation.
 - B +: B+ Line.
 - : adjustment for repair.
 - Total current is measured with no cassette installed.
 - Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
 - Voltages and waveforms are dc with respect to ground under no-signal conditions.
 - no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
 - Signal path.
 - \square : PB

6-3. SCHEMATIC DIAGRAM • See page 14, 15 for IC Block Diagrams.



**(3) MECHANISM DECK SECTION
(MT-WMEX550-125)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3373-245-1	CHASSIS (S) ASSY (Y)		116	X-3372-848-1	CLUTCH ASSY (M)	
102	3-007-457-01	SPRING (TEN), TENSION		117	3-932-724-21	WASHER	
103	3-010-954-01	SPRING (BT), COMPRESSION		118	3-386-694-01	WASHER	
104	3-010-274-01	TABLE, REEL		119	X-3372-852-1	FLYWHEEL (N) ASSY	
105	3-007-455-01	SPRING (R), TORSION		120	3-007-430-01	BELT	
106	3-007-458-01	SPRING (H/B), TENSION		121	3-007-428-01	WASHER (R)	
107	3-007-456-01	SPRING (N), TORSION		122	X-3372-851-1	FLYWHEEL (R) ASSY	
108	3-007-454-01	SPRING (FR), TORSION		123	3-007-434-01	PULLEY (REVERSE)	
* 109	3-010-272-01	BELT, RETAINER		124	3-007-427-01	SCREW (TB LOCK)	
110	3-366-017-01	BUSHING (CAPSTAN)		125	X-3372-853-1	LEVER (FRG) ASSY	
111	3-007-429-01	WASHER (R), STOPPER		126	3-007-435-01	GEAR (FR)	
112	3-918-943-01	WASHER, STOPPER		127	3-007-432-01	SHEET (R), REFLECTION	
113	3-007-960-01	SPRING (EJECT) (Y), TORSION		M901	1-698-885-11	MOTOR (CAPSTAN/REEL)	
114	3-007-439-01	SLIDER (LOCK)		PM901	1-454-674-31	SOLENOID, PLUNGER	
115	3-007-436-01	SPRING (TRIGGER), TORSION					

**SECTION 8
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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-3061-413-A	MAIN BOARD, COMPLETE *****		C305	1-135-316-11	TANTAL. CHIP 22uF	20% 2.5V
	< CAPACITOR >			C306	1 110 423 11	SOLID CHIP 2.2uF	20% 25V
C101	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C307	1 164 227 11	CERAMIC CHIP 0.022uF	10% 25V
C102	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C308	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V
C103	1 128 024 11	SOLID CHIP 4.7uF	20% 10V	C309	1-115-156-11	CERAMIC CHIP 1uF	10V
C104	1 164 227 11	CERAMIC CHIP 0.022uF	10% 25V	C310	1-115-156-11	CERAMIC CHIP 1uF	10V
C105	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C311	1-165-128-11	CERAMIC CHIP 0.22uF	16V
C106	1 115 156 11	CERAMIC CHIP 1uF	10V	C312	1-135-151-21	TANTALUM CHIP 4.7uF	20% 4V
C107	1 162 965 11	CERAMIC CHIP 0.0015uF	10% 50V	C314	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
C108	1 128 014 11	SOLID CHIP 10uF	20% 4V	C315	1-115-156-11	CERAMIC CHIP 1uF	10V
C109	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V	C316	1 115 156 11	CERAMIC CHIP 1uF	10V
C110	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C317	1 115 467 11	CERAMIC CHIP 0.22uF	10% 10V
C111	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	C318	1 135 149 21	TANTALUM CHIP 2.2uF	20% 10V
C112	1 115-156-11	CERAMIC CHIP 1uF	10V	C319	1-107-688-11	TANTAL. CHIP 1.5uF	20% 10V
C113	1-115-156-11	CERAMIC CHIP 1uF	10V	C320	1 162 964 11	CERAMIC CHIP 0.001uF	10% 50V
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C321	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C115	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C322	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C116	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C323	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C117	1-115-156-11	CERAMIC CHIP 1uF	10V	C324	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C201	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C325	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C202	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C326	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C203	1-135-151-21	TANTALUM CHIP 4.7uF	20% 4V	C327	1 162 964 11	CERAMIC CHIP 0.001uF	10% 50V
C204	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C501	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C205	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C502	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C206	1-115-156-11	CERAMIC CHIP 1uF	10V	C601	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C207	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C602	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C208	1-128-014-11	SOLID CHIP 10uF	20% 4V	C603	1 162 970 11	CERAMIC CHIP 0.01uF	10% 25V
C209	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V	C604	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C210	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C605	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C211	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	C606	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C212	1-115-156-11	CERAMIC CHIP 1uF	10V	C607	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C213	1-115-156-11	CERAMIC CHIP 1uF	10V	C608	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
C214	1 162 964 11	CERAMIC CHIP 0.001uF	10% 50V	C701	1-115-156-11	CERAMIC CHIP 1uF	10V
C215	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C702	1-115-156-11	CERAMIC CHIP 1uF	10V
C216	1-115-156-11	CERAMIC CHIP 1uF	10V	C703	1 115 156 11	CERAMIC CHIP 1uF	10V
C217	1-115-156-11	CERAMIC CHIP 1uF	10V	C704	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V
C220	1-162-953-11	CERAMIC CHIP 100PF	5% 50V	C705	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C301	1-135-316-11	TANTAL. CHIP 22uF	20% 2.5V	C706	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C302	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V	C707	1-115-156-11	CERAMIC CHIP 1uF	10V
C303	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C708	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C303	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C709	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
C304	1-128-024-11	SOLID CHIP 4.7uF	20% 10V		< CONNECTOR >		
				CN301	1-766-336-21	CONNECTOR, FFC/FPC 6P	

Ref. No.	Part No.	Description	Remark
< DIODE >			
D101	8-719-423-35	DIODE MA8120-H	
D201	8-719-423-35	DIODE MA8120-H	
D301	8-719-423-35	DIODE MA8120-H	
D501	8-719-049-09	DIODE 1SS367 T3SONY	
D701	8-719-404-49	DIODE MA111	
D702	8-719-049-09	DIODE 1SS367 T3SONY	
D703	8-719-051-01	DIODE CL-170HR-CD-T	
D704	8-719-051-01	DIODE CL-170HR-CD-T	
D705	8-719-051-01	DIODE CL-170HR-CD-T	
D706	8-719-051-01	DIODE CL-170HR-CD-T	
D707	8-719-051-01	DIODE CL-170HR-CD-T	
D708	8-719-051-01	DIODE CL-170HR-CD-T	
D709	8-719-423-35	DIODE MA8120-H	
< FERRITE BEAD >			
FB101	1-414-235-11	INDUCTOR, FERRITE BEAD	
FB201	1-414-235-11	INDUCTOR, FERRITE BEAD	
FB301	1-414-235-11	INDUCTOR, FERRITE BEAD	
< IC >			
IC301	8-759-359-76	IC TA2072AF	
IC601	8-759-356-46	IC MM1279XVBE	
IC701	8-759-450-43	IC MSM6576-79GS K	
IC702	8-759-280-85	IC PST9010N1	
IC703	8-759-430-08	IC PST9008N1	
IC704	8-759-515-82	IC S 81215AG RK S	
< JACK >			
J701	1-778-930-21	JACK 7P (Q)REMOTE	
< JUMPER RESISTOR >			
JC801	1-216-296-91	CONDUCTOR, CHIP (3216)	
< PHOTO INTERRUPTER >			
PH701	8-719-988-15	PHOTO REFLECTOR PR 11 C	
< TRANSISTOR >			
Q301	8-729-022-66	TRANSISTOR XN1210-TX	
Q302	8-729-422-39	TRANSISTOR XN4404	
Q303	8-729-403-17	TRANSISTOR XN1215	
Q304	8-729-230-72	TRANSISTOR 2SA1362YG	
Q305	8-729-421-23	TRANSISTOR XN1216	
Q501	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
Q502	8-729-115-28	TRANSISTOR BN1L3Z-K	
Q503	8-729-403-17	TRANSISTOR XN1215	
Q504	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
Q601	8-729-403-42	TRANSISTOR XN1401	
Q602	8-729-402-84	TRANSISTOR XN4601	
Q701	8-729-422-18	TRANSISTOR XN4315	

Ref. No.	Part No.	Description	Remark
Q702	8-729-421-26	TRANSISTOR UN5216	
Q703	8-729-230-72	TRANSISTOR 2SA1362YG	
Q704	8-729-422-51	TRANSISTOR UN5110-QRS	
Q705	8-729-402-42	TRANSISTOR UN5213	
Q706	8-729-403-17	TRANSISTOR XN1215	
Q707	8-729-403-17	TRANSISTOR XN1215	
Q708	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
Q709	8-729-030-53	TRANSISTOR MSD1819A-RT1	
Q710	8-729-421-26	TRANSISTOR UN5216	
Q711	8-729-230-72	TRANSISTOR 2SA1362YG	
Q712	8-729-422-51	TRANSISTOR UN5110-QRS	
< RESISTOR >			
R101	1-216-812-11	METAL CHIP 180 5% 1/16W	
R102	1-216-847-11	METAL CHIP 150K 5% 1/16W	
R103	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
R104	1-216-824-11	METAL CHIP 1.8K 5% 1/16W	
R105	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R108	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W	
R109	1-216-834-11	METAL CHIP 12K 5% 1/16W	
R110	1-216-852-11	METAL CHIP 390K 5% 1/16W	
R111	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R112	1-216-824-11	METAL CHIP 1.8K 5% 1/16W	
R113	1-216-809-11	METAL CHIP 100 5% 1/16W	
R114	1-216-840-11	METAL CHIP 39K 5% 1/16W	
R115	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R201	1-216-812-11	METAL CHIP 180 5% 1/16W	
R202	1-216-847-11	METAL CHIP 150K 5% 1/16W	
R203	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
R204	1-216-824-11	METAL CHIP 1.8K 5% 1/16W	
R205	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R208	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W	
R209	1-216-834-11	METAL CHIP 12K 5% 1/16W	
R210	1-216-852-11	METAL CHIP 390K 5% 1/16W	
R211	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R212	1-216-824-11	METAL CHIP 1.8K 5% 1/16W	
R213	1-216-809-11	METAL CHIP 100 5% 1/16W	
R214	1-216-840-11	METAL CHIP 39K 5% 1/16W	
R215	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R301	1-218-891-11	METAL GLAZE 68K 0.5% 1/16W	
R302	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R303	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R304	1-218-295-11	METAL GLAZE 43K 5% 1/16W	
R305	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R306	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R307	1-216-847-11	METAL CHIP 150K 5% 1/16W	
R308	1-216-826-11	METAL CHIP 2.7K 5% 1/16W	
R309	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R501	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R502	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R604	1-216-810-11	METAL CHIP 470 5% 1/16W	
R605	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R606	1-216-809-11	METAL CHIP 100 5% 1/16W	

MAIN

SW

Ref. No.	Part No.	Description	Remark
R607	1-216-837-11	METAL CHIP	22K 5% 1/16W
R701	1-216-815-11	METAL CHIP	330 5% 1/16W
R702	1-216-851-11	METAL CHIP	330K 5% 1/16W
R703	1-216-849-11	METAL CHIP	220K 5% 1/16W
R704	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R705	1-216-849-11	METAL CHIP	220K 5% 1/16W
R706	1-216-849-11	METAL CHIP	220K 5% 1/16W
R707	1-218-870-11	METAL GLAZE	9.1K 0.5% 1/16W
R708	1-216-851-11	METAL CHIP	330K 5% 1/16W
R709	1-216-845-11	METAL CHIP	100K 5% 1/16W
R710	1-218-836-11	METAL GLAZE	360 0.5% 1/16W
R711	1-218-845-11	METAL GLAZE	820 0.5% 1/16W
R712	1-218-847-11	METAL GLAZE	1K 0.5% 1/16W
R713	1-218-849-11	METAL GLAZE	1.2K 0.5% 1/16W
R714	1-218-866-11	METAL GLAZE	6.2K 0.5% 1/16W
R715	1-216-849-11	METAL CHIP	220K 5% 1/16W
R716	1-216-849-11	METAL CHIP	220K 5% 1/16W
R717	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R718	1-216-821-11	METAL CHIP	1K 5% 1/16W
R719	1-216-821-11	METAL CHIP	1K 5% 1/16W
R720	1-216-162-11	METAL CHIP	33 5% 1/16W
R721	1-216-162-11	METAL CHIP	33 5% 1/16W
R722	1-216-817-11	METAL CHIP	470 5% 1/16W
R723	1-216-817-11	METAL CHIP	470 5% 1/16W
< COMPOSITION CIRCUIT BLOCK >			
RB301	1-233-872-21	RES. NETWORK (CHIP TYPE)	33Kx4
RB601	1-233-873-21	RES. NETWORK (CHIP TYPE)	220Kx4
RB602	1-233-576-11	RES. CHIP NETWORK	100x4
RB701	1-233-418-11	RES. CHIP NETWORK	3.3Kx4 (3216)
< VARIABLE RESISTOR >			
RV301	1-225-342-11	RES. VAR. CARBON	10K/10K (VOLUME)
RV601	1-223-576-11	RES. ADJ. METAL GLAZE	2.2K (TAPE SPEED)
< SWITCH >			
S701	1-762-970-21	SWITCH, PUSH (1 KEY)	(CASSETTE HOLDER)
S702	1-572-581-11	SWITCH, SLIDE	(DIRECTION)
S703	1-572-922-11	SWITCH, SLIDE	(←HOLD)
S704	1-692-453-11	SWITCH, KEY BOARD	(■)
S705	1-692-453-11	SWITCH, KEY BOARD	(◀▶REPEAT)
S706	1-692-453-11	SWITCH, KEY BOARD	(FF)
S707	1-692-453-11	SWITCH, KEY BOARD	(REW)
S708	1-692-453-11	SWITCH, KEY BOARD	(FUNCTION)
< THERMISTOR (POSITIVE) >			
THP601	1-810-794-11	THERMISTOR, POSITIVE	(3.3K 3900ppm)
< VIBRATOR >			
X701	1-760-872-11	VIBRATOR, CRYSTAL	(32.768KHz)

Ref. No.	Part No.	Description	Remark
1-666-710-11 SW BOARD			

< CAPACITOR >			
C710	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V
< TRANSISTOR >			
Q713	8-729-422-51	TRANSISTOR	UN5110-QRS
Q714	8-729-421-26	TRANSISTOR	UN5216
< RESISTOR >			
R724	1-216-849-11	METAL CHIP	220K 5% 1/16W

MISCELLANEOUS			

HP901	1-500-420-11	HEAD, MAGNETIC (PLAYBACK)	
J801	1-779-080-11	JACK, DC (POLARITY UNIFIED TYPE)	(DC IN 1.5V)
M901	1-698-885-11	MOTOR (CAPSTAN/REEL)	
PM901	1-454-674-31	SOLENOID, PLUNGER	
S901	1-762-793-11	SWITCH, LEAF	

ACCESSORIES & PACKING MATERIALS			

1-505-535-11 HEADPHONE (WITH REMOCOIN) (EX552)			
1-528-465-11 BATTERY CHARGER (BC-820T) (EX552:Tourist)			
1-569-007-11 ADAPTOR, CONVERSION 2P (EX552:Tourist)			
3-858-909-11 MANUAL, INSTRUCTION (ENGLISH, SPANISH)			
3-858-909-21 MANUAL, INSTRUCTION (FRENCH, GERMAN, ITALIAN) (AEP)			
3-858-909-31 MANUAL, INSTRUCTION (DUTCH, SWEDISH, PORTUGUESE) (AEP)			
3-858-909-41 MANUAL, INSTRUCTION (CHINESE, KOREAN) (EX550:E/EX552:E, Tourist)			
3-918-892-01 CASE, CARRYING			
3-918-937-01 CASE, CARRYING			
3-920-201-01 CLIP (EX552)			
8-953-187-90 HEADPHONE MDR-ED136//K SET (EX550)			

WM-EX550/EX552

SONY

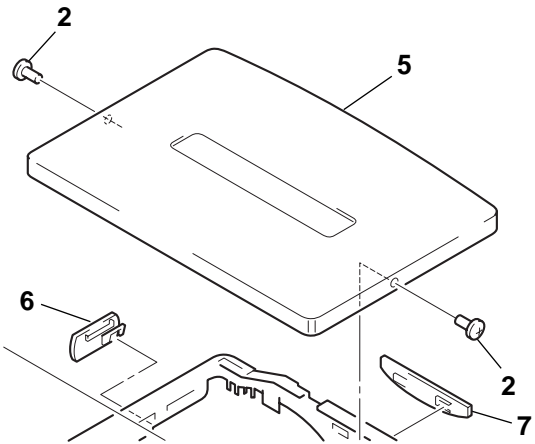
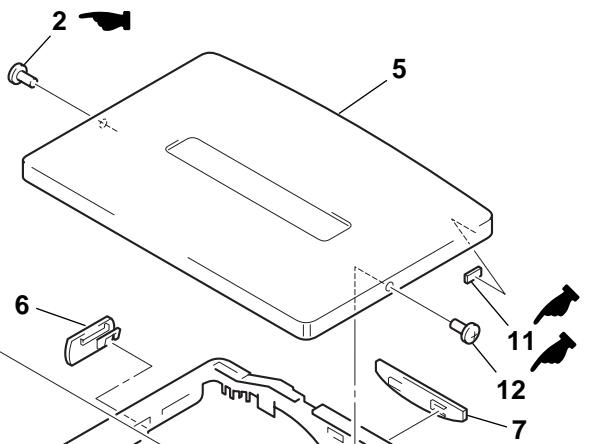













SERVICE MANUAL








AEP Model
E Model
 WM-EX550/EX552
Tourist Model
 WM-EX552

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT																																															
23																																																	
	<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3-704-197-01</td> <td>SCREW (IB LOCK)</td> <td></td> </tr> <tr> <td colspan="4">_____</td> </tr> <tr> <td colspan="4">_____</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	Remark	2	3-704-197-01	SCREW (IB LOCK)		_____				_____				<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3-704-197-01</td> <td>SCREW 1.4X1.6 (S) (for SILVER, BLUE) (EX550)</td> <td></td> </tr> <tr> <td>2</td> <td>3-704-197-01</td> <td>SCREW 1.4X1.6 (S) (EX552)</td> <td></td> </tr> <tr> <td>2</td> <td>3-704-197-03</td> <td>SCREW 1.4X1.6 (B) (for BLACK) (EX550)</td> <td></td> </tr> <tr> <td>11</td> <td>3-015-995-01</td> <td>SPACER (CASSETTE)</td> <td></td> </tr> <tr> <td>12</td> <td>3-389-523-15</td> <td>SCREW 1.4X2 (S) (for SILVER, BLUE) (EX550)</td> <td></td> </tr> <tr> <td>12</td> <td>3-389-523-15</td> <td>SCREW 1.4X2 (S) (EX552)</td> <td></td> </tr> <tr> <td>12</td> <td>3-389-523-16</td> <td>SCREW 1.4X2 (B) (for BLACK) (EX550)</td> <td></td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	Remark	2	3-704-197-01	SCREW 1.4X1.6 (S) (for SILVER, BLUE) (EX550)		2	3-704-197-01	SCREW 1.4X1.6 (S) (EX552)		2	3-704-197-03	SCREW 1.4X1.6 (B) (for BLACK) (EX550)		11	3-015-995-01	SPACER (CASSETTE)		12	3-389-523-15	SCREW 1.4X2 (S) (for SILVER, BLUE) (EX550)		12	3-389-523-15	SCREW 1.4X2 (S) (EX552)		12	3-389-523-16	SCREW 1.4X2 (B) (for BLACK) (EX550)
Ref. No.	Part No.	Description	Remark																																														
2	3-704-197-01	SCREW (IB LOCK)																																															

Ref. No.	Part No.	Description	Remark																																														
2	3-704-197-01	SCREW 1.4X1.6 (S) (for SILVER, BLUE) (EX550)																																															
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12	3-389-523-15	SCREW 1.4X2 (S) (EX552)																																															
12	3-389-523-16	SCREW 1.4X2 (B) (for BLACK) (EX550)																																															

(SPM-97023)

WM-EX550/EX552

SONY[®]

SERVICE MANUAL

AEP Model
E Model
WM-EX550/EX552
Tourist Model
WM-EX552

SUPPLEMENT-1

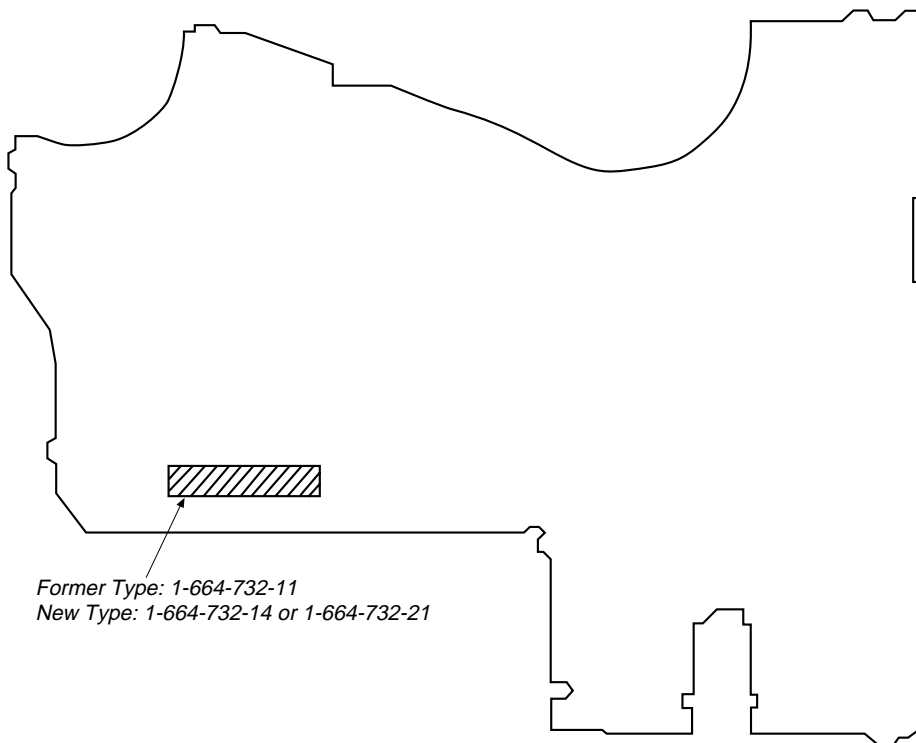
File this supplement with the service manual.

Subject: MAIN Board Modification

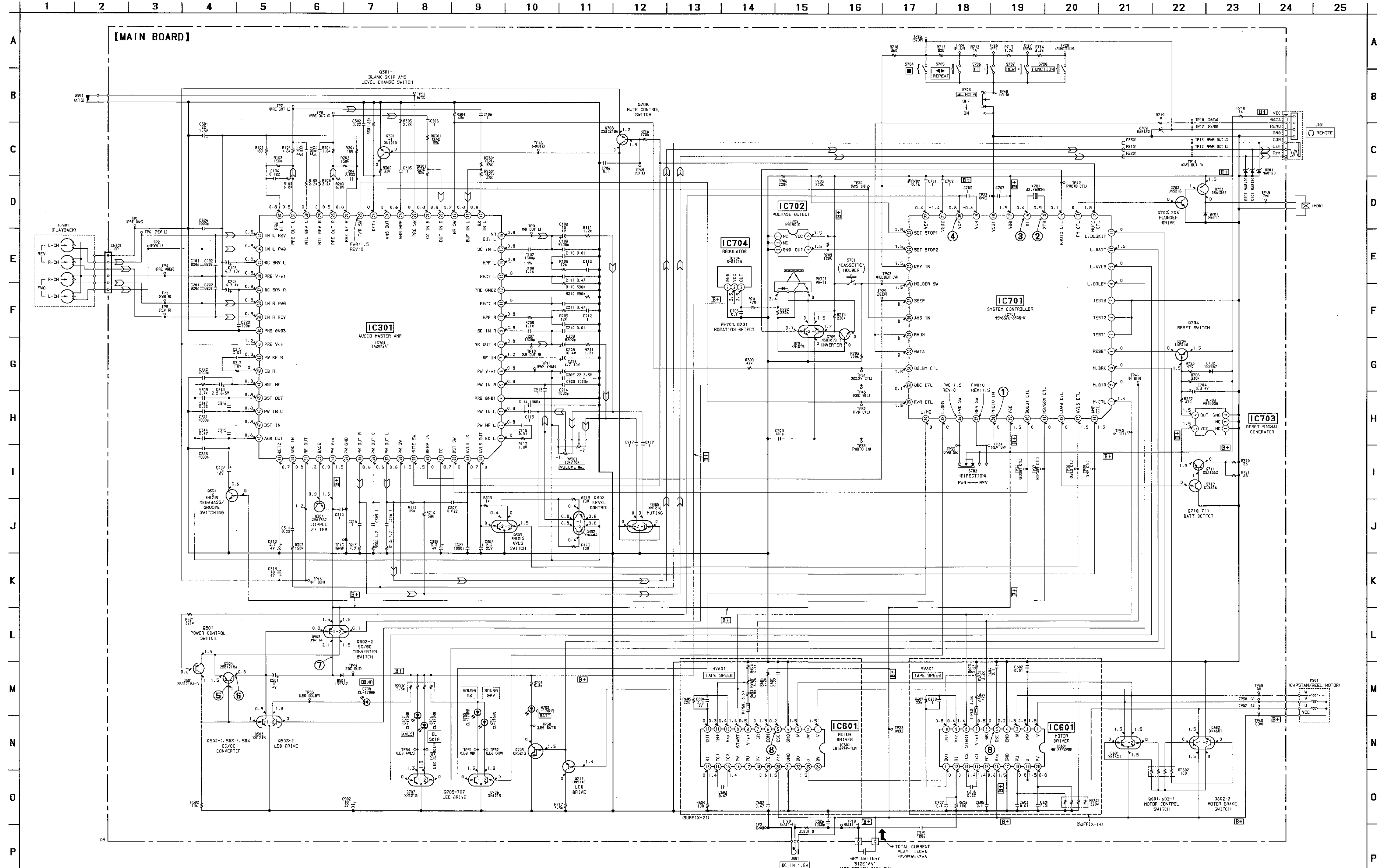
(ECN-WM700963)

• **New/Former Discrimination**

[MAIN BOARD] (SIDE B)



1-3. SCHEMATIC DIAGRAM • See page 13 for IC Block Diagram.

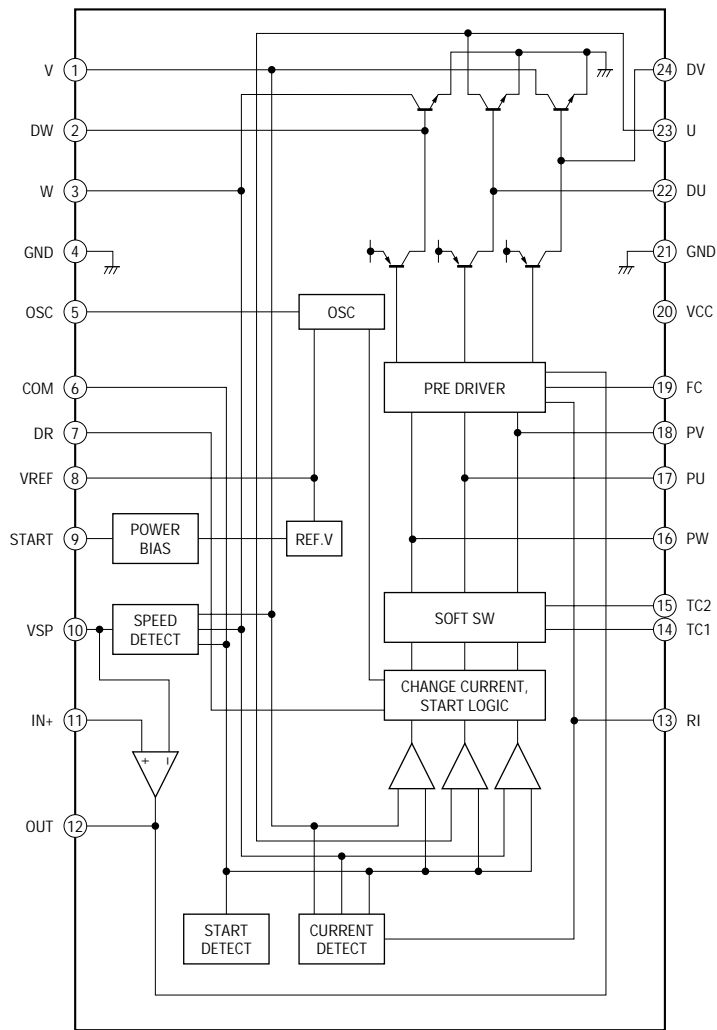


Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF ; μF 50 V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4$ W or less unless otherwise specified.
- Panel designation: \square
- B+ Line: \square
- Adjustment for repair: \square
- Total current is measured with no cassette installed.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark : PLAY.
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path: Σ : PB

• IC Block Diagram

IC601 LB1674V-TLM (SUFFIX-21)



2. 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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- **CAPACITORS**
uF: μ F
- **COILS**
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-3061-413-A	MAIN BOARD, COMPLETE *****		C303	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
		< CAPACITOR >		C304	1-128-024-11	ELECT CHIP 4.7uF	20% 10V
C101	1-164-473-11	CERAMIC CHIP 820PF	10% 50V	C305	1-135-316-11	TANTALUM CHIP 22uF	20% 2.5V
C102	1-164-473-11	CERAMIC CHIP 820PF	10% 50V	C306	1-110-423-11	ELECT CHIP 2.2uF	20% 25V
C103	1-128-024-11	ELECT CHIP 4.7uF	20% 10V	C307	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C104	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C308	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V
C105	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C309	1-115-156-11	CERAMIC CHIP 1uF	10% 10V
C106	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C310	1-115-156-11	CERAMIC CHIP 1uF	10% 10V
C107	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C311	1-165-128-11	CERAMIC CHIP 0.22uF	16V
C108	1-128-014-11	ELECT CHIP 10uF	20% 4V	C312	1-109-935-11	TANTALUM CHIP 4.7uF	20% 4V
C109	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V	C313	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C110	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C314	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
C111	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	C315	1-115-156-11	CERAMIC CHIP 1uF	10% 10V
C112	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C316	1-115-156-11	CERAMIC CHIP 1uF	10% 10V
C113	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C317	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C318	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V
C115	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C319	1-107-688-11	TANTALUM CHIP 1.5uF	20% 10V
C116	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C320	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C117	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C321	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C201	1-164-473-11	CERAMIC CHIP 820PF	10% 50V	C322	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C202	1-164-473-11	CERAMIC CHIP 820PF	10% 50V	C323	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C203	1-135-151-21	TANTALUM CHIP 4.7uF	20% 4V	C324	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C204	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C325	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C205	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C326	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C206	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C327	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C207	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C501	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C208	1-128-014-11	ELECT CHIP 10uF	20% 4V	C502	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C209	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V	C601	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V (SUFFIX-21)
C210	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C601	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V (SUFFIX-14)
C211	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	C602	1-113-619-11	CERAMIC CHIP 0.47uF	10V (SUFFIX-21)
C212	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C602	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V (SUFFIX-14)
C213	1-115-156-11	CERAMIC CHIP 1uF	10% 10V	C603	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V (SUFFIX-21)
C214	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C603	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V (SUFFIX-14)
C215	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C604	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V (SUFFIX-14)
C216	1-115-156-11	CERAMIC CHIP 1uF	10% 10V				
C217	1-115-156-11	CERAMIC CHIP 1uF	10% 10V				
C220	1-162-953-11	CERAMIC CHIP 100PF	5% 50V				
C301	1-135-316-11	TANTALUM CHIP 22uF	20% 2.5V				
C302	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C604	1-135-221-11	TANTALUM CHIP 3.3uF	20% 4V (SUFFIX-21)			< PHOTO INTERRUPTER >	
C605	1-164-156-11	CERAMIC CHIP 0.1uF	25V (SUFFIX-14)	PH701	8-719-988-15	PHOTO REFLECTOR PR-11-C	
C606	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V (SUFFIX-14)			< TRANSISTOR >	
C607	1-107-826-11	CERAMIC CHIP 0.1uF	10% 10V (SUFFIX-14)	Q301	8-729-022-66	TRANSISTOR XN1210-TX	
C608	1-109-982-11	CERAMIC CHIP 1uF	10% 10V (SUFFIX-14)	Q302	8-729-422-39	TRANSISTOR XN4404	
C701	1-115-156-11	CERAMIC CHIP 1uF	10V	Q303	8-729-403-17	TRANSISTOR XN1215	
C702	1-115-156-11	CERAMIC CHIP 1uF	10V	Q304	8-729-230-72	TRANSISTOR 2SA1362YG	
C703	1-115-156-11	CERAMIC CHIP 1uF	10V	Q305	8-729-421-23	TRANSISTOR XN1216	
C704	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V	Q501	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
C705	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q502	8-729-115-28	TRANSISTOR BN1L3Z-K	
C706	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q503	8-729-403-17	TRANSISTOR XN1215	
C707	1-115-156-11	CERAMIC CHIP 1uF	10V	Q504	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
C708	1-162-953-11	CERAMIC CHIP 100PF	5% 50V	Q601	8-729-403-42	TRANSISTOR XN1401	
		< CONNECTOR >		Q602	8-729-402-84	TRANSISTOR XN4601	
CN301	1-766-336-21	CONNECTOR, FFC/FPC 6P		Q701	8-729-422-18	TRANSISTOR XN4315	
		< DIODE >		Q702	8-729-421-26	TRANSISTOR UN5216	
D101	8-719-423-35	DIODE MA8120-H		Q703	8-729-230-72	TRANSISTOR 2SA1362YG	
D201	8-719-423-35	DIODE MA8120-H		Q704	8-729-422-51	TRANSISTOR UN5110-QRS	
D301	8-719-423-35	DIODE MA8120-H		Q705	8-729-402-42	TRANSISTOR UN5213	
D501	8-719-049-09	DIODE 1SS367-T3SONY		Q706	8-729-403-17	TRANSISTOR XN1215	
D701	8-719-404-49	DIODE MA111		Q707	8-729-403-17	TRANSISTOR XN1215	
D702	8-719-049-09	DIODE 1SS367-T3SONY		Q708	8-729-420-24	TRANSISTOR 2SB1218A-QRS	
D703	8-719-051-01	LED CL-170HR-CD-T (BATT)		Q709	8-729-030-53	TRANSISTOR MSD1819A-RT1	
D704	8-719-051-01	LED CL-170HR-CD-T (SOUND GRV)		Q710	8-729-421-26	TRANSISTOR UN5216	
D705	8-719-051-01	LED CL-170HR-CD-T (SOUND MB)		Q711	8-729-230-72	TRANSISTOR 2SA1362YG	
D706	8-719-051-01	LED CL-170HR-CD-T (BL SKIP)		Q712	8-729-422-51	TRANSISTOR UN5110-QRS	
D707	8-719-051-01	LED CL-170HR-CD-T (AVLS)				< RESISTOR >	
D708	8-719-051-01	LED CL-170HR-CD-T (□ NR)		R101	1-216-812-11	METAL CHIP 180	5% 1/16W
D709	8-719-423-35	DIODE MA8120-H		R102	1-216-847-11	METAL CHIP 150K	5% 1/16W
		< FERRITE BEAD >		R103	1-216-831-11	METAL CHIP 6.8K	5% 1/16W
FB101	1-414-235-11	INDUCTOR, FERRITE BEAD		R104	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
FB201	1-414-235-11	INDUCTOR, FERRITE BEAD		R105	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
FB301	1-414-235-11	INDUCTOR, FERRITE BEAD		R108	1-218-270-11	RES, CHIP 1.1K (1608)	
		< IC >		R109	1-216-834-11	METAL CHIP 12K	5% 1/16W
IC301	8-759-359-76	IC TA2072AF		R110	1-216-852-11	METAL CHIP 390K	5% 1/16W
IC601	8-759-275-47	IC LB1674V-TLM (SUFFIX-21)		R111	1-216-822-11	METAL CHIP 1.2K	5% 1/16W
IC601	8-759-356-46	IC MM1279XVBE (SUFFIX-14)		R112	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
IC701	8-759-479-49	IC MSM6576-83GS-K		R113	1-216-809-11	METAL CHIP 100	5% 1/16W
IC702	8-759-280-85	IC PST9010NL		R114	1-216-840-11	METAL CHIP 39K	5% 1/16W
IC703	8-759-430-08	IC PST9008NL		R115	1-216-793-11	RES, CHIP 4.7 (1608)	
IC704	8-759-469-63	IC S-81215SGUP-DQK-T1		R201	1-216-812-11	METAL CHIP 180	5% 1/16W
		< JACK >		R202	1-216-847-11	METAL CHIP 150K	5% 1/16W
J701	1-778-930-21	JACK 7P (⊘) REMOTE)		R203	1-216-831-11	METAL CHIP 6.8K	5% 1/16W
J801	1-779-080-11	JACK, DC (POLARITY UNIFIED TYPE) (DC IN 1.5V)		R204	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
		< CHIP CONDUCTOR >		R205	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
JC801	1-216-296-00	CONDUCTOR, CHIP (3216)		R208	1-218-270-11	RES, CHIP 1.1K (1608)	
				R209	1-216-834-11	METAL CHIP 12K	5% 1/16W
				R210	1-216-852-11	METAL CHIP 390K	5% 1/16W
				R211	1-216-822-11	METAL CHIP 1.2K	5% 1/16W
				R212	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
				R213	1-216-809-11	METAL CHIP 100	5% 1/16W
				R214	1-216-840-11	METAL CHIP 39K	5% 1/16W
				R215	1-216-793-11	RES, CHIP 4.7 (1608)	
				R301	1-218-891-11	RES, CHIP 68K (1608)	

MAIN

Ref. No.	Part No.	Description	Remark
R302	1-216-839-11	METAL CHIP	33K 5% 1/16W
R303	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R304	1-218-295-11	RES, CHIP	43K (1608)
R305	1-216-821-11	METAL CHIP	1K 5% 1/16W
R306	1-216-793-11	RES, CHIP	4.7 (1608)
R307	1-216-847-11	METAL CHIP	150K 5% 1/16W
R308	1-216-826-11	METAL CHIP	2.7K 5% 1/16W
R309	1-216-841-11	METAL CHIP	47K 5% 1/16W
R501	1-216-849-11	METAL CHIP	220K 5% 1/16W
R502	1-216-833-11	METAL CHIP	10K 5% 1/16W
R601	1-216-825-11	METAL CHIP	2.2K 5% 1/16W (SUFFIX-21)
R602	1-216-831-11	METAL CHIP	6.8K 5% 1/16W (SUFFIX-21)
R603	1-216-829-11	METAL CHIP	4.7K 5% 1/16W (SUFFIX-21)
R604	1-216-809-11	METAL CHIP	100 5% 1/16W (SUFFIX-21)
R604	1-216-817-11	METAL CHIP	470 5% 1/16W (SUFFIX-14)
R605	1-216-830-11	METAL CHIP	5.6K 5% 1/16W (SUFFIX-14)
R605	1-216-837-11	METAL CHIP	22K 5% 1/16W (SUFFIX-21)
R606	1-216-809-11	METAL CHIP	100 5% 1/16W (SUFFIX-14)
R607	1-216-837-11	METAL CHIP	22K 5% 1/16W (SUFFIX-14)
R701	1-216-817-11	METAL CHIP	470 5% 1/16W
R702	1-216-851-11	METAL CHIP	330K 5% 1/16W
R703	1-216-849-11	METAL CHIP	220K 5% 1/16W
R704	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R705	1-216-849-11	METAL CHIP	220K 5% 1/16W
R706	1-216-849-11	METAL CHIP	220K 5% 1/16W
R707	1-218-870-11	RES, CHIP	9.1K (1608)
R708	1-216-851-11	METAL CHIP	330K 5% 1/16W
R709	1-216-845-11	METAL CHIP	100K 5% 1/16W
R710	1-218-836-11	RES, CHIP	360 (1608)
R711	1-218-845-11	RES, CHIP	820 (1608)
R712	1-218-847-11	RES, CHIP	1.0K (1608)
R713	1-218-849-11	RES, CHIP	1.2K (1608)
R714	1-218-866-11	RES, CHIP	6.2K (1608)
R715	1-216-849-11	METAL CHIP	220K 5% 1/16W
R716	1-216-849-11	METAL CHIP	220K 5% 1/16W
R717	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R718	1-216-821-11	METAL CHIP	1K 5% 1/16W
R719	1-216-821-11	METAL CHIP	1K 5% 1/16W
R720	1-216-162-00	RES, CHIP	33 (3216)
R721	1-216-162-00	RES, CHIP	33 (3216)
R722	1-216-817-11	METAL CHIP	470 5% 1/16W
R723	1-216-817-11	METAL CHIP	470 5% 1/16W
< COMPOSITION CIRCUIT BLOCK >			
RB301	1-233-872-21	RES, NETWORK (CHIP TYPE) (3216)	
RB601	1-233-873-21	RES, NETWORK (CHIP TYPE) (3216)	(SUFFIX-14)
RB602	1-233-576-11	RES, CHIP NETWORK 100	
RB701	1-233-418-11	RES, CHIP NETWORK 3.3K (3216)	

Ref. No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV301	1-225-342-11	RES, VAR, CARBON 10K/10K (VOLUME ▲)	
RV601	1-223-576-11	RES, ADJ, METAL GLAZE 2.2K (SUFFIX-14)	
RV601	1-223-921-11	RES, ADJ, METAL GLAZE 4.7K (SUFFIX-21)	
< SWITCH >			
S701	1-762-970-21	SWITCH, PUSH (1 KEY)(CASSETTE HOLDER)	
S702	1-572-581-11	SWITCH, SLIDE (DIRECTION)	
S703	1-572-922-11	SWITCH, SLIDE (◀HOLD)	
S704	1-692-453-11	SWITCH, KEY BOARD (■)	
S705	1-692-453-11	SWITCH, KEY BOARD (◀▶ REPEAT)	
S706	1-692-453-11	SWITCH, KEY BOARD (FF)	
S707	1-692-453-11	SWITCH, KEY BOARD (REW)	
S708	1-692-453-11	SWITCH, KEY BOARD (FUNCTION)	
< THERMISTOR (POSITIVE) >			
THP601	1-810-794-11	THERMISTOR, POSITIVE	
< VIBRATOR >			
X701	1-760-872-11	VIBRATOR, CRYSTAL (32.768kHz)	
