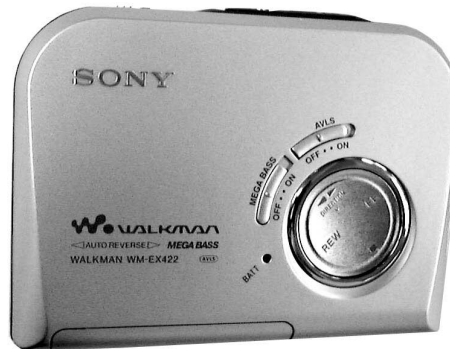


WM-EX422

SERVICE MANUAL

E Model

Ver 1.1 2003.12



Model Name Using Similar Mechanism	NEW
MD Mechanism Type	MF-WMFX495-147

SPECIFICATIONS

- **Frequency response**
Playback: 30 - 18 000 Hz
- **Output**
Headphones (i) jack Load impedance 8 - 300 Ω
- **Power requirements**
1.5V DC, battery R6 (AA) x 1
- **Dimensions (w/h/d)**
Approx. 111.2 x 81.1 x 29.5 mm (4 $\frac{1}{2}$ x 3 $\frac{1}{4}$ x 1 $\frac{3}{16}$ in.), excl. projecting parts and controls
- **Mass**
Approx. 124 g (4.4 oz) (main unit only)
- **Supplied accessories**
Stereo headphones or earphones (1)
Hand strap (1) (European model only)
Carrying pouch (1) (Asian model only)

Design and specifications are subject to change without notice.

Battery life* (approximate hours)

	Sony alkaline LR6 (SG)**	Sony R6P (SR)
Tape playback	35	9

* Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association).
(Using a Sony HF series cassette tape)

**When using a Sony LR6(SG) "STAMINA" alkaline dry battery
(produced in Japan).

Note

- The battery life may be shorter depending on the operating condition, the surrounding temperature and battery type.

CASSETTE PLAYER

9-877-095-02
2003L02-1
© 2003.12

Sony Corporation
Personal Audio Company
Published by Sony Engineering Corporation

SONY®

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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 SERVICING NOTES

This set detects the rotation of the idler gear (A) (side S) using the photo reflector (PH751). The PH751 is mounted on the MAIN board, therefore the idler gear (A) (side S) cannot be detected with the MAIN board removed. As a result, the motor (M601) cannot be controlled, causing malfunction.

Further, the MD switch (S601) 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.

1. Setting

- 1) Refer to "3. DISASSEMBLY", and remove the MAIN board.
- 2) Connect the MAIN board to the motor (M601) using jumper wires. These can be connected easily with the use of the extension tool (Part No. 1-769-143-11) (ten in one set).
- 3) Connect the AF oscillator to the TP52 and the BT401 (BATT-).
- 4) Supply 1.5 V to the battery terminals using the regulated power supply.

2. Preset state

To set the PLAY, FF, REW modes, the preset state must be set.

- 1) Check that the slider (NRA) and the MD switch (S601) are set to the center position. If not, set the preset state as follow.
- 2) Move the MD switch (S601) to the side, which the slider (NRA) is facing.
- 3) The slider (NRA) will move when the regulated power supply switch is set to OFF once and then set to ON. Move the MD switch (S601) according to this timing and set to the center position.

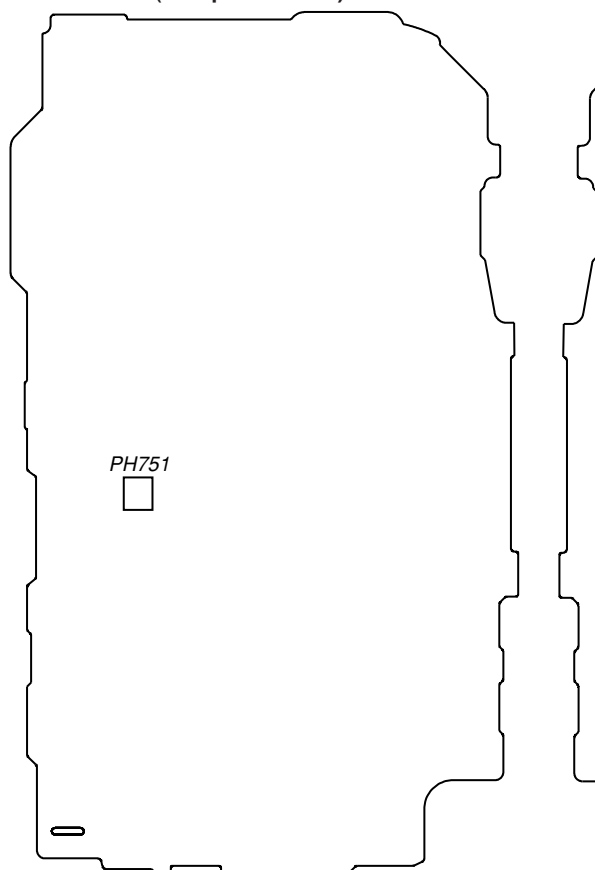
3. FF, REW modes

- 1) Check that the preset state is set.
 - 2) Input the square wave or sine wave to the TP52 and the BT401 (BATT-).
 - 3) Press the **[FF]** button or **[REW]** button .
4. PLAY mode
- 1) Check that the preset state is set.
 - 2) Input the square wave to the TP52 and the BT401 (BATT-).
 - 3) Press the **[▶◀]** button will move the slider (NRA) once towards the side REV and then to the side FWD. Move the MD switch (S601) according to this timing will set the PLAY mode (side FWD). Press the **[▶◀]** button another time for a second and move the MD switch (S601) according to the movement of the slider (NRA) will set the PLAY mode (side REV).

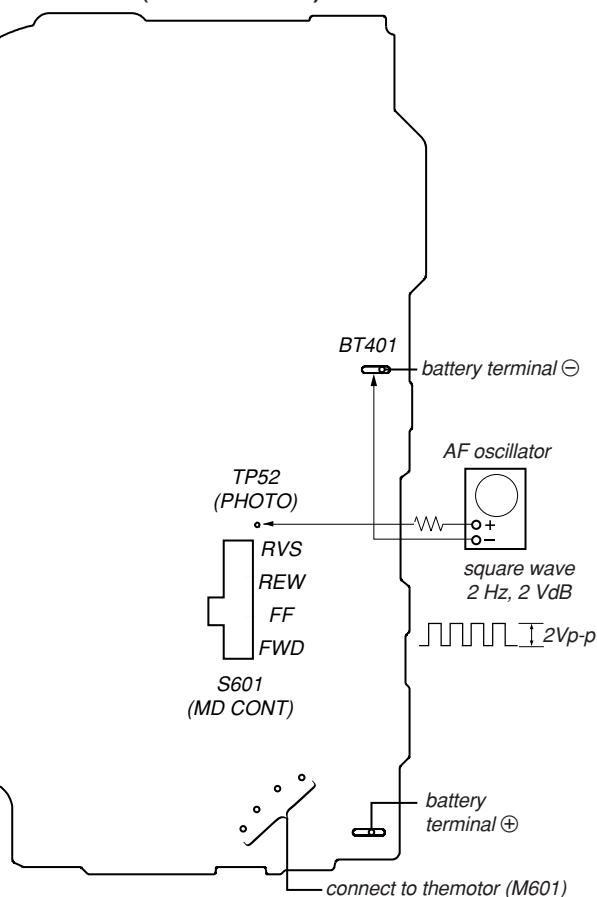
Note 1: If the above fails, perform from preset again.

Note 2: When using headphones, the timing for move the MD switch (S601) can be determined from the beep sound.

— MAIN Board (Component Side) —

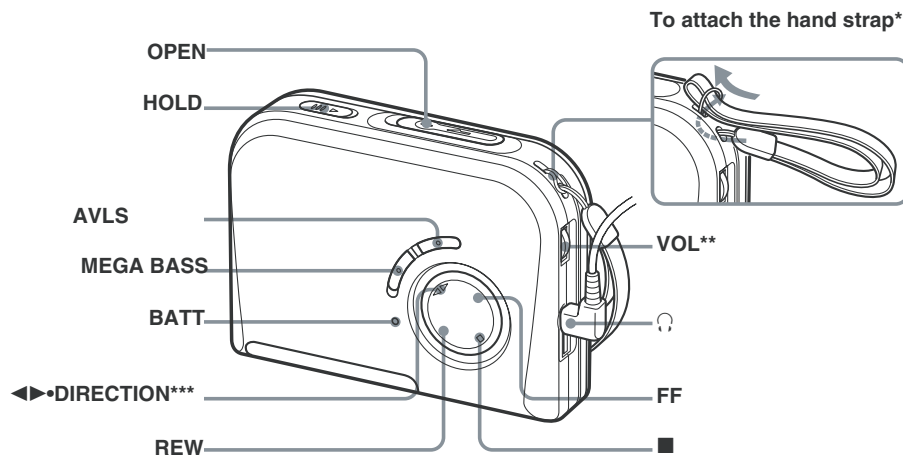


— MAIN Board (Conductor Side) —



SECTION 2 GENERAL

This section is extracted from instruction manual.



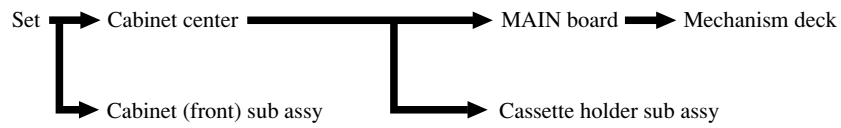
* Supplied with the European model only.

** There is a tactile dot beside VOL to show the direction to turn up the volume.

*** The button has a tactile dot.

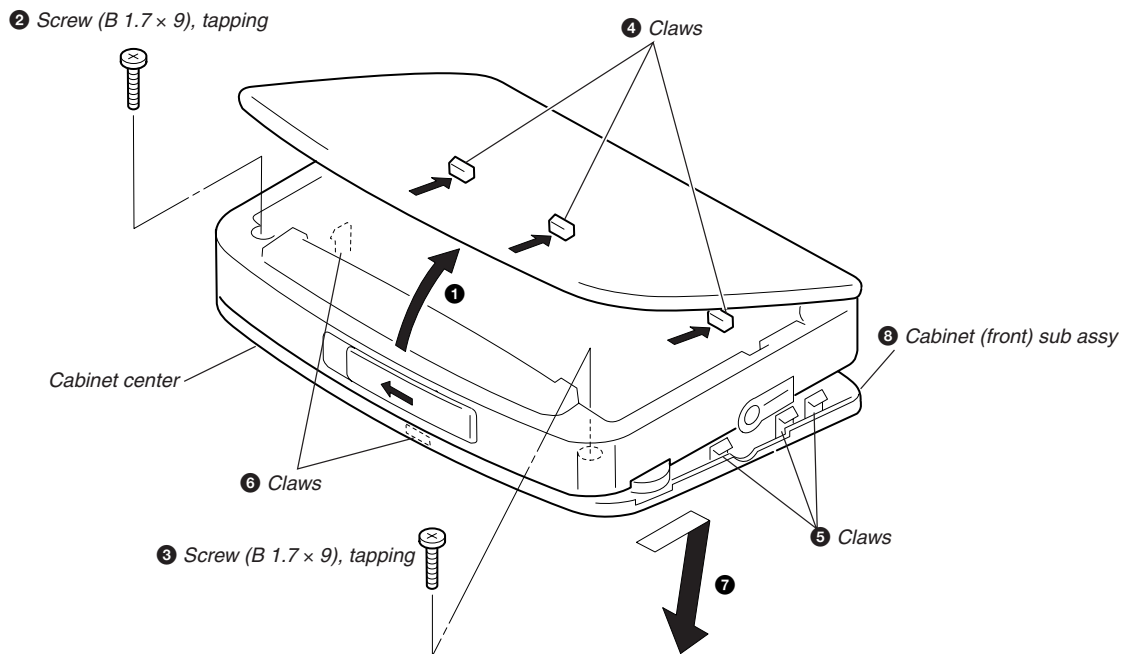
SECTION 3 DISASSEMBLY

- The equipment can be removed using the following procedure.

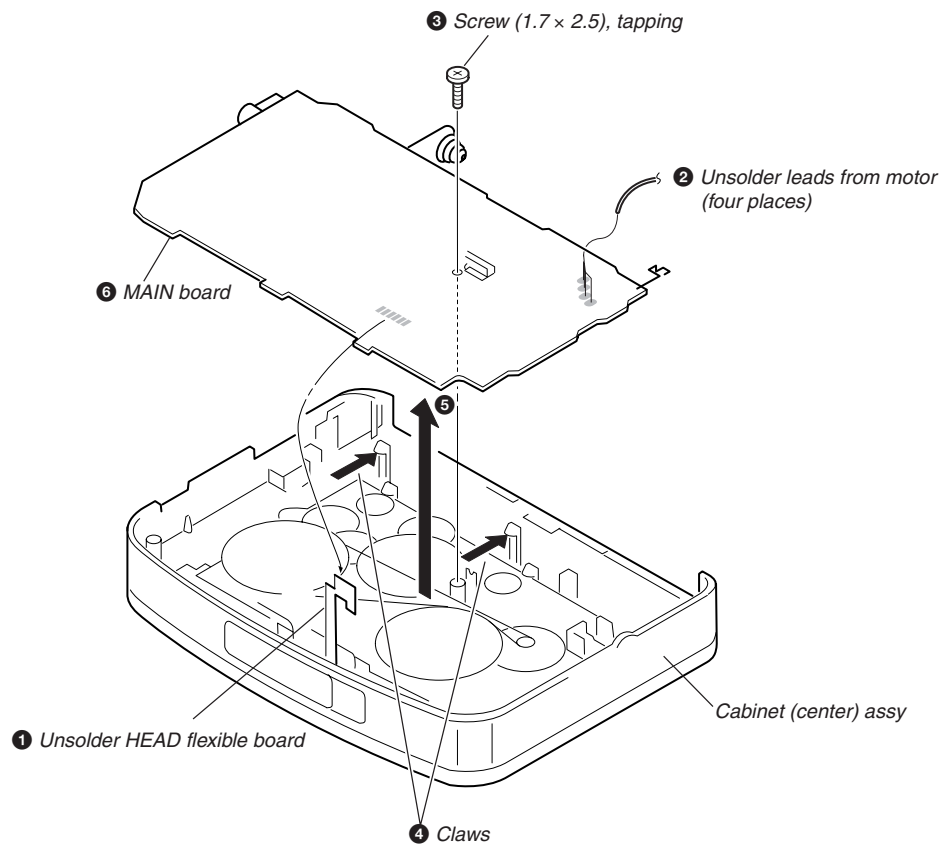


Note : Follow the disassembly procedure in the numerical order given.

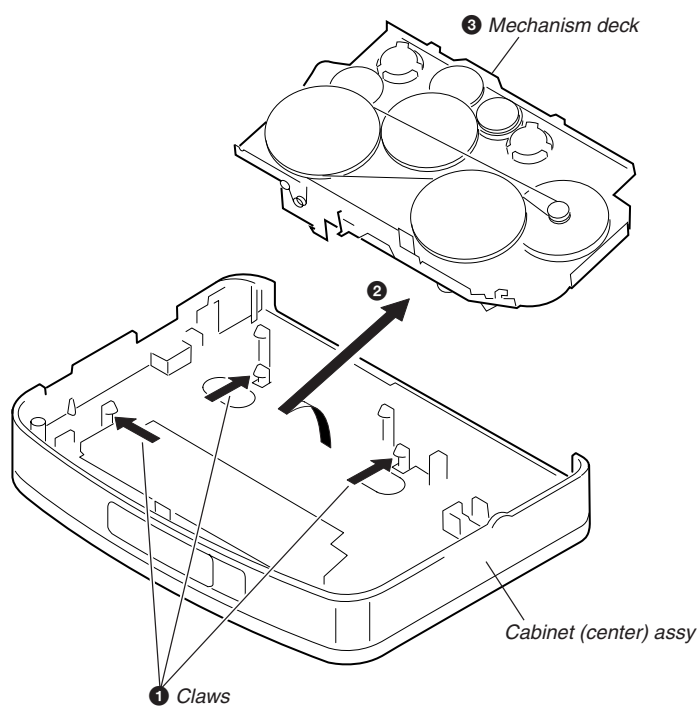
3-1. CABINET (FRONT) SUB ASSY



3-2. MAIN BOARD



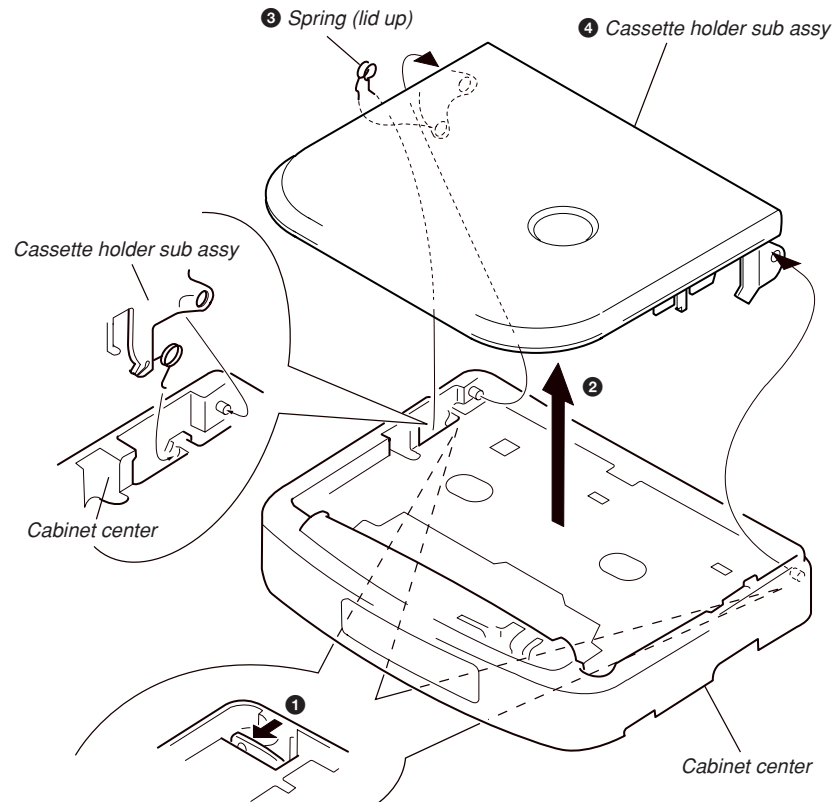
3-3. MECHANISM DECK



3-4. CASSETTE HOLDER SUB ASSY

• **Use caution when installing the cassette holder assy**□

Install the cassette holder sub assy with the spring (lid up) as shown below in the drawing so that it fits into the holes on the cabinet center. Once installed, fit the left and right pieces on.



• Press on the left & right clips from the rear of the cabinet center and remove the boss.

SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

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

playback head	pinch roller
capstan	rubber belt
- Demagnetize the playback head with a head demagnetizer.
Do not use a magnetized screwdriver for the adjustments.
- These measurement and adjustment should be performed with the rated power supply voltage (1.5 V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	1.97 – 4.11 mN • m 20 – 42 g • cm (0.28 – 0.58 oz • inch)
FWD back tension		less than 0.19 mN • m less than 2 g • cm (less than 0.027 oz • inch)
REV	CQ-102RC	1.97 – 4.11 mN • m 20 – 42 g • cm (0.28 – 0.58 oz • inch)
REV back tension		less than 0.19 mN • m less than 2 g • cm (less than 0.027 oz • inch)
FF, REW	CQ-201B	more than 5.89 mN • m more than 60 g • cm (more than 0.84 oz • inch)

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

- Supplied voltage : 1.5V.
- Switch and control position
MEGA BASS : NORMAL
VOLUME control (RV301) : maximum
AVLS : OFF
HOLD : OFF
PB EQ : NORMAL

TAPE SECTION

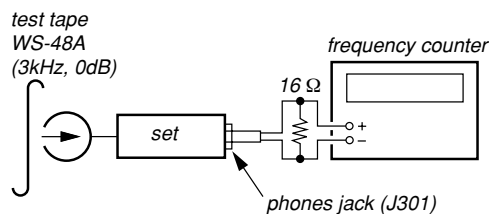
0 dB = 0.775V

Test Tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	Tape Speed Adjustment

Tape Speed Adjustment

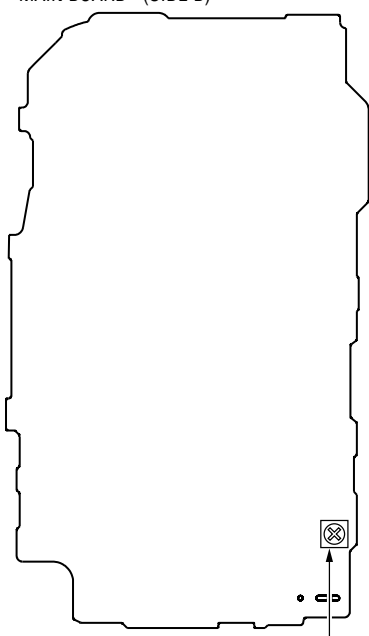
Procedure :



- Playback WS-48A (tape center part) in the FWD state and adjust RV601 so that the frequency counter reading becomes 2,985Hz.
Standard value : 2,970–3,000Hz
- Playback WS-48A (tape center part) in the REV state.
Check that frequency counter reading is within $\pm 1.5\%$ of the reading of step 1.

Adjustment Location :

MAIN BOARD (SIDE B)

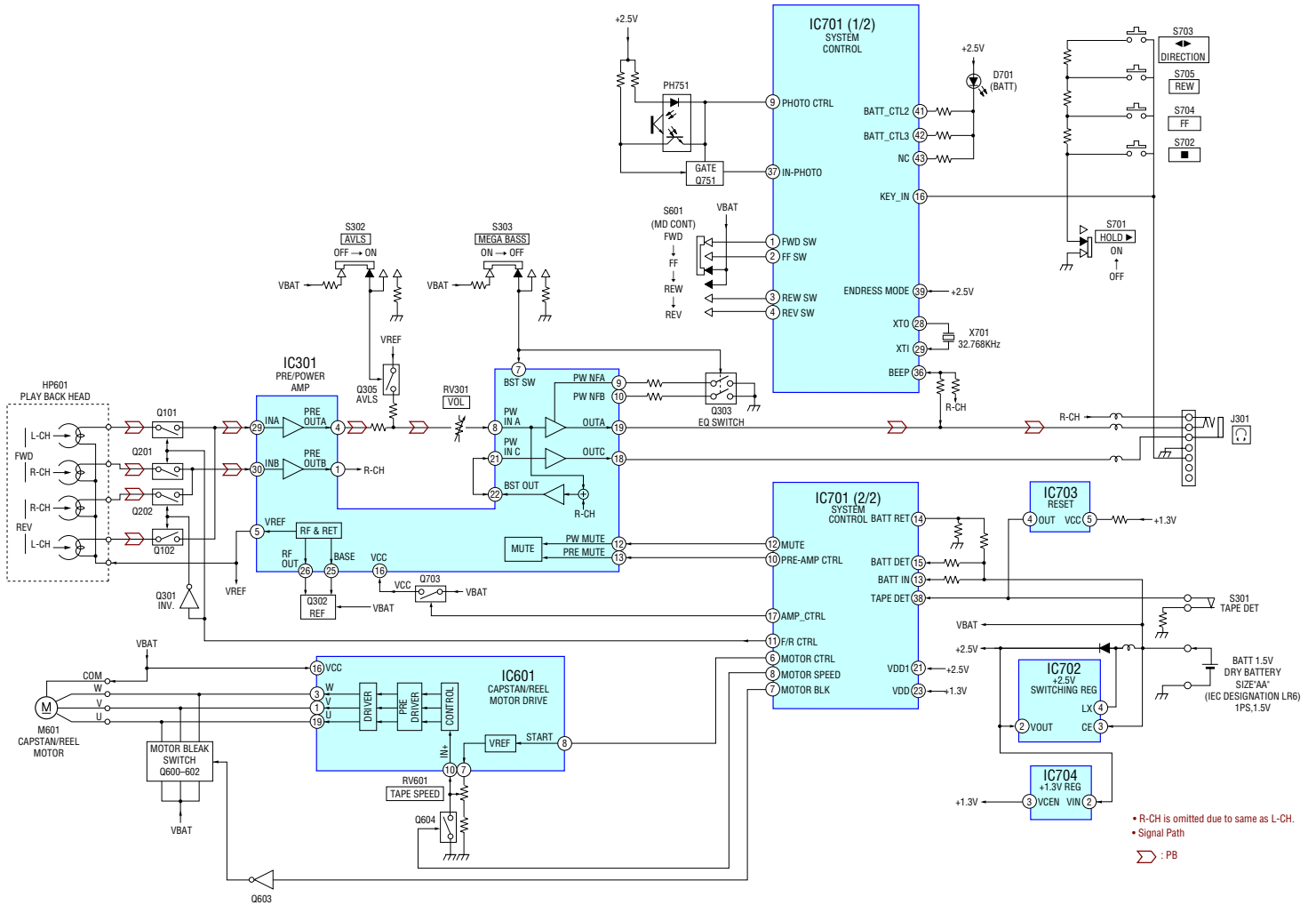


RV601 : Tape speed adjustment

SECTION 5 DIAGRAMS

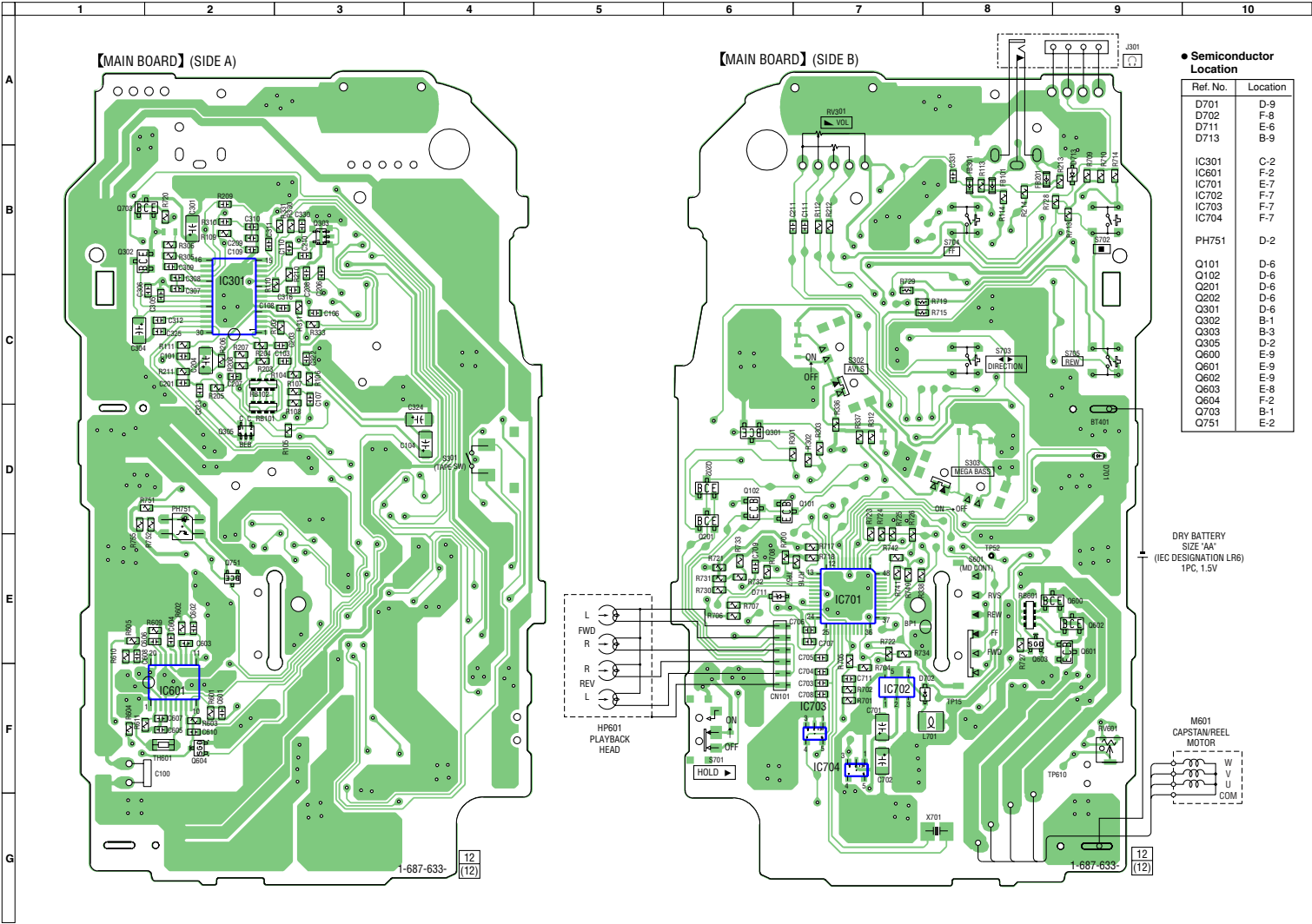
WM-EX422

5-1. BLOCK DIAGRAMS

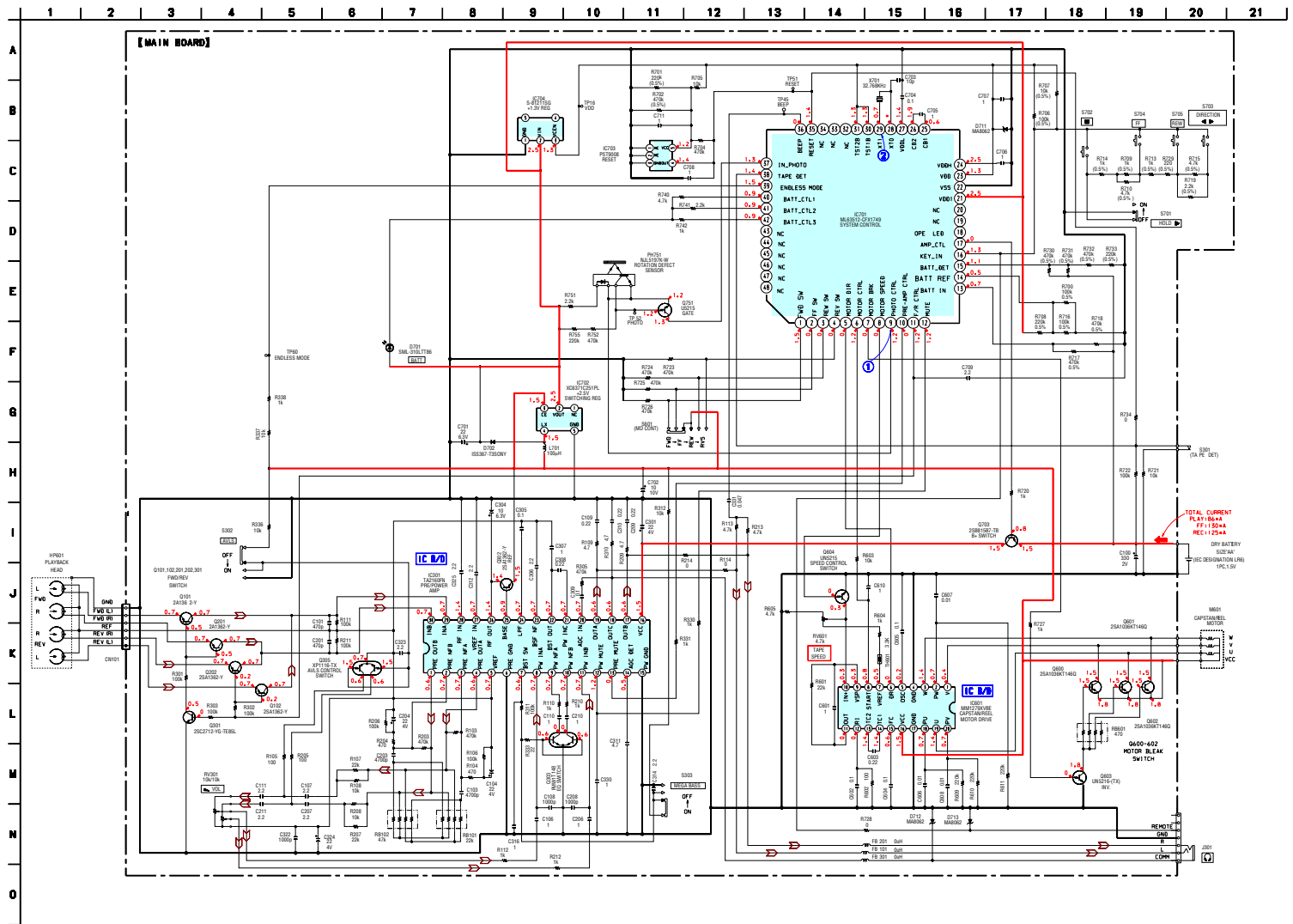


WM-EX422

5-2. PRINTED WIRING BOARDS ● See page 12 for Notes.



5-3. SCHEMATIC DIAGRAM • See page 12 for Notes.



WM-EX422

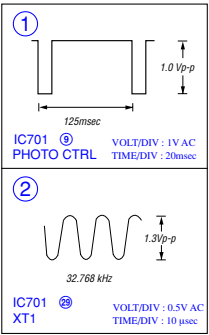
Note on Schematic Diagram

- 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 $1/\Delta\text{W}$ or less unless otherwise specified.
-  : panel designation.
-  : B+ Line.
-  : adjustment for repair.
- Power voltage is dc 1.5V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) 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 a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : PB

Note on Printed Wiring Board

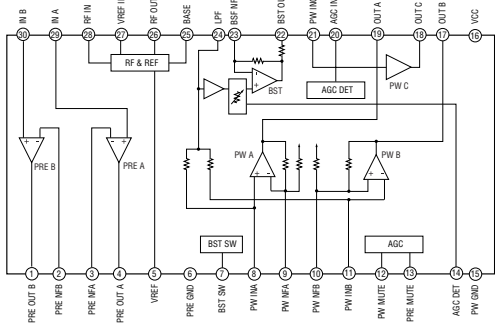
-  : parts extracted from the component side.
 -  : Through hole.
 -  : Pattern from the side which enables seeing.
 - (The other layers' patterns are not indicated.)
- Caution:
- Pattern face side: Parts on the pattern face side seen from the (Side B)
- Parts face side: Parts on the parts face side seen from the (Side A)

Waveforms

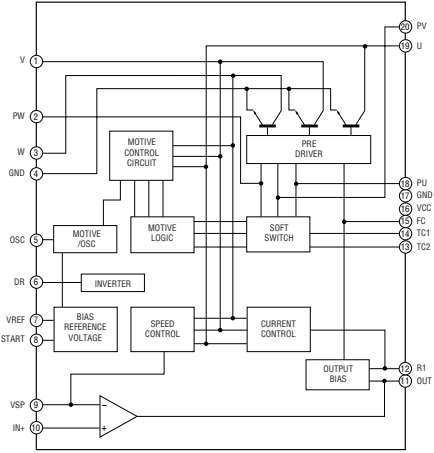


5-4. IC BLOCK DIAGRAMS

IC301 TA2160FN (EL)



IC601 MM1279XVBE



- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

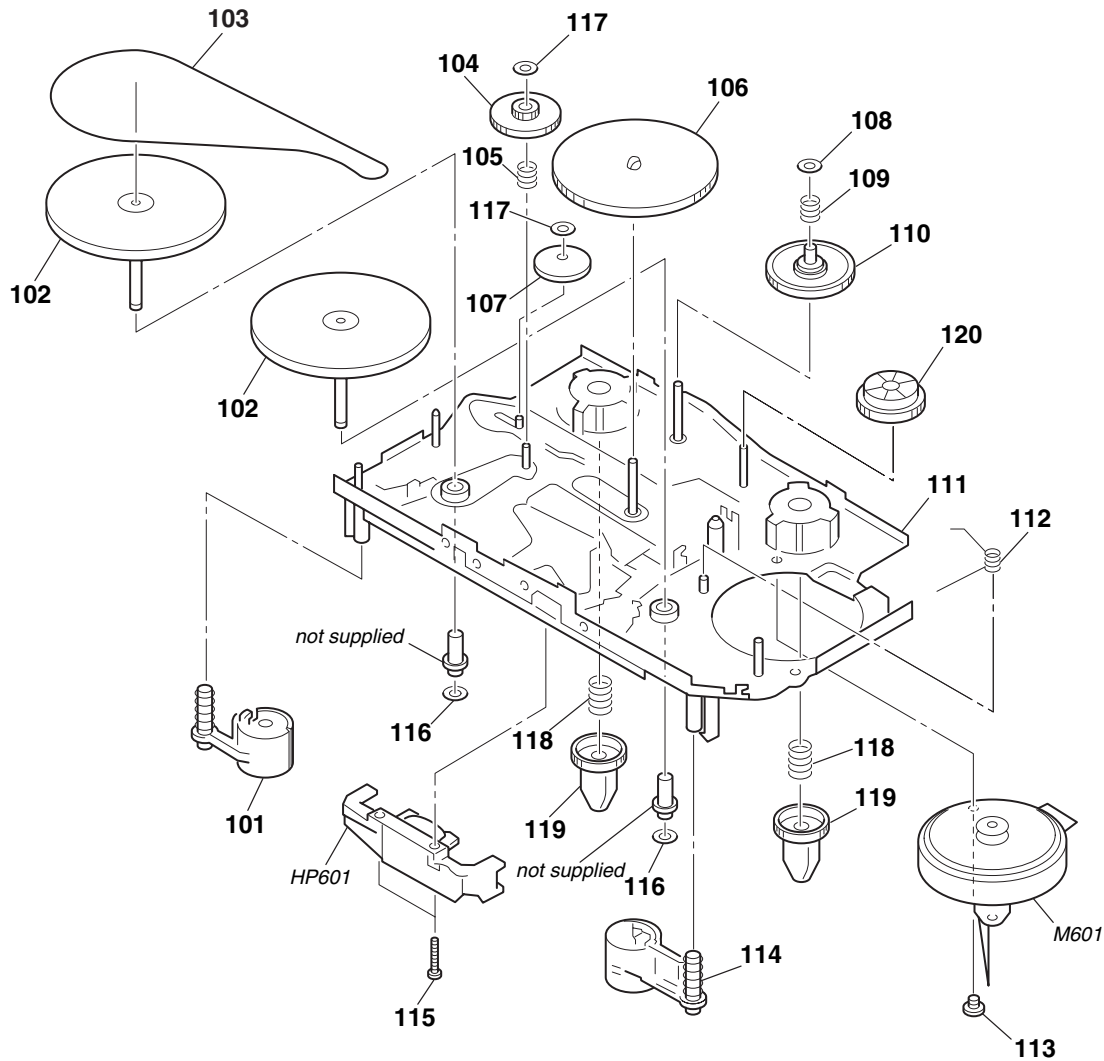
Diagram illustrating the exploded view of the MF-WMF495-147 car stereo unit, showing the following components and their assembly order:

1. Mounting bracket
2. Mounting bracket (alternative view)
3. Main unit housing (bottom)
4. Mounting bracket (alternative view)
5. Mounting bracket (alternative view)
6. Mounting bracket (alternative view)
7. Mounting bracket (alternative view)
8. Mounting bracket (alternative view)
9. Mounting bracket (alternative view)
10. Mounting bracket (alternative view)
11. Mounting bracket (alternative view)
12. Mounting bracket (alternative view)
13. Mounting bracket (alternative view)
14. Mounting bracket (alternative view)
15. Mounting bracket (alternative view)
16. Mounting bracket (alternative view)
17. Mounting bracket (alternative view)
18. Mounting bracket (alternative view)
19. Mounting bracket (alternative view)
20. Mounting bracket (alternative view)
21. Mounting bracket (alternative view)
22. Mounting bracket (alternative view)
23. Mounting bracket (alternative view)

Note: The text "not supplied" is present near component 5, indicating that this part is not included in the package.

13

6-2. MECHANISM DECK SECTION (MF-WMFX495-147)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3375-020-2	PINCH LEVER (N-F) ASSY		112	3-021-974-04	SPRING (HEAD BASE)	
102	X-3372-619-3	WHEEL ASSY (NP), CAPSTAN		113	3-704-197-01	SCREW (M1.4), SPECIAL HEAD	
103	3-354-868-01	BELT		114	X-3375-021-3	PINCH LEVER (R-F) ASSY	
104	3-021-950-02	GEAR (DF)		115	3-704-197-71	SCREW (M1.4)	
105	3-021-982-01	SPRING (MODE), COMPRESSION		116	3-921-797-01	WASHER	
106	X-3375-024-4	CLUTCH ASSY (F)		117	3-338-647-31	WASHER (1.0-2.5)	
107	3-021-951-02	GEAR (CAM)		118	3-022-100-01	SPRING (B.T.), COMPRESSION	
108	3-348-953-21	WASHER		119	3-024-223-11	GEAR (REEL-2)	
109	3-021-979-02	SPRING (UDF), COMPRESSION		120	X-3375-268-1	GEAR (AF-SV) ASSY	
110	3-021-949-01	GEAR (BF)					
111	X-3375-022-7	CHASSIS ASSY (F)		HP601	1-500-648-11	HEAD, MAGNETIC (PLAYBACK)	
				M601	1-763-798-11	MOTOR, DC (CAPSTAN/REEL)	

SECTION 7

ELECTRICAL PARTS LIST

MAIN

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, -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-3683-587-A	MAIN PC BOARD ASSY *****		C610	1-115-156-11	CERAMIC CHIP 1uF	10V
		< CAPACITOR >		C701	1-119-750-11	TANTAL. CHIP 22uF	20% 6.3V
C100	1-126-236-11	ELECT 330uF	20% 2V	C702	1-104-851-11	TANTAL. CHIP 10uF	20% 10V
C101	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	C703	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C103	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C704	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C104	1-104-847-11	TANTAL. CHIP 22uF	20% 4V	C705	1-115-156-11	CERAMIC CHIP 1uF	10V
C106	1-115-156-11	CERAMIC CHIP 1uF	10V	C706	1-115-156-11	CERAMIC CHIP 1uF	10V
C107	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V	C707	1-115-156-11	CERAMIC CHIP 1uF	10V
C108	1-115-416-11	CERAMIC CHIP 0.001uF	5% 25V	C708	1-115-156-11	CERAMIC CHIP 1uF	10V
C109	1-165-128-11	CERAMIC CHIP 0.22uF	16V	C709	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V
C110	1-164-227-91	CERAMIC CHIP 0.022uF	10V	C711	1-115-156-11	CERAMIC CHIP 1uF	10V
C111	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V			< DIODE >	
C201	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	D701	8-719-064-07	DIODE SML-310LT86 (BATT)	
C203	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	D702	8-719-049-09	DIODE 1SS367-T3SONY	
C204	1-104-847-11	TANTAL. CHIP 22uF	20% 4V	D711	8-719-422-58	DIODE MA8062	
C206	1-115-156-11	CERAMIC CHIP 1uF	10V	D713	8-719-422-58	DIODE MA8062	
C207	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V			< FERRITE BEAD >	
C208	1-115-416-11	CERAMIC CHIP 0.001uF	5% 25V	FB101	1-469-125-21	FERRITE 0UH	
C209	1-165-128-11	CERAMIC CHIP 0.22uF	16V	FB201	1-469-125-21	FERRITE 0UH	
C210	1-164-227-11	CERAMIC CHIP 0.022uF	10V	FB301	1-469-125-21	FERRITE 0UH	
C211	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V			< IC >	
C301	1-104-847-11	TANTAL. CHIP 22uF	20% 4V	IC301	6-701-831-01	IC TA2160FN(EL)	
C304	1-104-851-11	TANTAL. CHIP 10uF	20% 10V	IC601	8-759-356-46	IC MM1279XVBE	
C305	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC701	6-802-989-01	IC ML63512-CFX1749	
C306	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V	IC702	8-759-566-77	IC XC6371C251PL	
C307	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V	IC703	8-759-430-08	IC PST9008NL	
C308	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V	IC704	8-759-280-84	IC S-81211SG-QA-T1	
C309	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< JACK >	
C310	1-165-128-11	CERAMIC CHIP 0.22uF	16V	J301	1-580-680-11	JACK (C)	
C311	1-117-720-11	CERAMIC CHIP 4.7uF	10V			< COIL >	
C312	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V	L701	1-412-032-11	INDUCTOR CHIP 100uH	
C316	1-115-156-11	CERAMIC CHIP 1uF	10V			< REFLECTOR >	
C322	1-115-416-11	CERAMIC CHIP 0.001uF	5% 25V	PH751	8-749-016-61	REFLECTOR NJL5197K-W-F20(TE1)	
C323	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V			< TRANSISTOR >	
C324	1-104-847-11	TANTAL. CHIP 22uF	20% 4V	Q101	8-729-230-72	TRANSISTOR 2SA1362YG	
C325	1-135-834-91	CERAMIC CHIP 2.2uF	6.3V	Q102	8-729-230-72	TRANSISTOR 2SA1362YG	
C330	1-115-156-11	CERAMIC CHIP 1uF	10V	Q201	8-729-230-72	TRANSISTOR 2SA1362YG	
C331	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V	Q202	8-729-230-72	TRANSISTOR 2SA1362YG	
C601	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V	Q301	8-729-230-49	TRANSISTOR 2SC2712-YG	
C602	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V				
C603	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V				
C604	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C605	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V				
C606	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V				
C607	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V				
C608	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V				

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description			Remark
Q302	8-729-230-72	TRANSISTOR	2SA1362YG			R706	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
Q303	8-729-903-10	TRANSISTOR	FMW1			R707	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
Q305	8-729-425-94	TRANSISTOR	XP1116-TXE			R708	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
Q600	8-729-901-97	TRANSISTOR	2SA1036K-Q			R709	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q601	8-729-901-97	TRANSISTOR	2SA1036K-Q			R710	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
Q602	8-729-901-97	TRANSISTOR	2SA1036K-Q			R713	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q603	8-729-421-28	TRANSISTOR	UN5216			R714	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q604	8-729-420-50	TRANSISTOR	UN5215			R715	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
Q703	8-729-800-71	TRANSISTOR	2SB815B7-TB			R716	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
Q751	8-729-420-50	TRANSISTOR	UN5215			R717	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
< RESISTOR >						R718	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R103	1-216-853-11	METAL CHIP	470K	5%	1/10W	R719	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R104	1-216-817-11	METAL CHIP	470	5%	1/10W	R720	1-216-821-11	METAL CHIP	1K	5%	1/10W
R105	1-216-817-11	METAL CHIP	470	5%	1/10W	R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-845-11	METAL CHIP	100K	5%	1/10W	R722	1-216-845-11	METAL CHIP	100K	5%	1/10W
R107	1-216-837-11	METAL CHIP	22K	5%	1/10W	R723	1-216-853-11	METAL CHIP	470K	5%	1/10W
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W	R724	1-216-853-11	METAL CHIP	470K	5%	1/10W
R109	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R725	1-216-853-11	METAL CHIP	470K	5%	1/10W
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W	R726	1-216-853-11	METAL CHIP	470K	5%	1/10W
R111	1-216-845-11	METAL CHIP	100K	5%	1/10W	R727	1-216-841-11	METAL CHIP	47K	5%	1/10W
R112	1-216-821-11	METAL CHIP	1K	5%	1/10W	R728	1-216-864-11	METAL CHIP	0	5%	1/10W
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R729	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R114	1-216-864-11	SHORT	0			R730	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R203	1-216-853-11	METAL CHIP	470K	5%	1/10W	R731	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R204	1-216-817-11	METAL CHIP	470	5%	1/10W	R732	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R205	1-216-817-11	METAL CHIP	470	5%	1/10W	R733	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R206	1-216-845-11	METAL CHIP	100K	5%	1/10W	R740	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R207	1-216-837-11	METAL CHIP	22K	5%	1/10W	R741	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R208	1-216-833-11	METAL CHIP	10K	5%	1/10W	R742	1-216-821-11	METAL CHIP	1K	5%	1/10W
R209	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R751	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-821-11	METAL CHIP	1K	5%	1/10W	R752	1-216-845-11	METAL CHIP	100K	5%	1/10W
R211	1-216-845-11	METAL CHIP	100K	5%	1/10W	R755	1-216-849-11	METAL CHIP	220K	5%	1/10W
R212	1-216-821-11	METAL CHIP	1K	5%	1/10W	< NETWORK RESISTOR >					
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	RB101	1-233-416-11	RES, CHIP NETWORK 22K (3216)			
R214	1-216-864-11	SHORT	0			RB102	1-233-578-11	RES, CHIP NETWORK 47K			
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W	RB601	1-233-577-11	RES, CHIP NETWORK 470			
R302	1-216-845-11	METAL CHIP	100K	5%	1/10W	< VARIABLE RESISTOR >					
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	RV301	1-225-362-11	RES, VAR, MAIN CARBON 10K/10K (▲ VOL)			
R305	1-216-853-11	METAL CHIP	470K	5%	1/10W	RV601	1-223-258-11	RES, CARBON ADJ VAR 4.7K (TAPE SPEED)			
R310	1-216-793-11	METAL CHIP	4.7	5%	1/10W	< SWITCH >					
R311	1-216-845-11	METAL CHIP	100K	5%	1/10W	S301	1-771-040-21	SWITCH, PUSH (TAPE DET)			
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W	S302	1-786-526-11	SWITCH, SLIDE (AVLS)			
R330	1-216-821-11	METAL CHIP	1K	5%	1/10W	S303	1-786-526-11	SWITCH, SLIDE (MEGA BASS)			
R331	1-216-821-11	METAL CHIP	1K	5%	1/10W	S601	1-771-598-11	SWITCH, SLIDE (MD CONT)			
R333	1-216-801-11	METAL CHIP	22	5%	1/10W	S701	1-572-922-11	SWITCH, SLIDE (HOLD) (HOLD▶)			
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W	S702	1-771-851-21	SWITCH, TACTILE (SMD) (■)			
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W	S703	1-771-851-21	SWITCH, TACTILE (SMD) (◀▶, DIRECTION)			
R338	1-216-821-11	METAL CHIP	1K	5%	1/10W	S704	1-771-851-21	SWITCH, TACTILE (SMD) (FF)			
R601	1-216-837-11	METAL CHIP	22K	5%	1/10W	S705	1-771-851-21	SWITCH, TACTILE (SMD) (REW)			
R602	1-216-809-11	METAL CHIP	100	5%	1/10W	< THERMISTOR >					
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W	TH601	1-810-794-21	THERMISTOR, POSITIVE 3.3K			
R604	1-216-821-11	METAL CHIP	1K	5%	1/10W	< VIBRATOR >					
R605	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	X701	1-579-258-11	VIBRATOR, CRYSTAL (32.768kHz)			
R609	1-216-849-11	METAL CHIP	220K	5%	1/10W	*****					
R610	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R611	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R700	1-218-895-11	METAL CHIP	100K	0.5%	1/10W						
R701	1-218-903-11	METAL CHIP	220K	0.5%	1/10W						
R702	1-218-911-11	METAL CHIP	470K	0.5%	1/10W						
R704	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W						

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		MISCELLANEOUS *****	
HP601	1-500-648-11	HEAD, MAGNETIC (PLAYBACK)	
M601	1-763-798-11	MOTOR, DC (CAPSTAN/REEL)	

		ACCESSORIES *****	
	3-220-749-01	CASE, CARRYING	
	3-253-260-41	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE)	
	8-954-008-93	RECEIVER,EAR MDR-E808LP	

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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