

WM-190

SERVICE MANUAL

E Model



Model Name Using Similar Mechanism	WM-170
Tape Transport Mechanism Type	MT-WM190-45

SPECIFICATIONS

Frequency response (DOLBY* NR OFF)
20 – 18,000 Hz (with the TAPE selector set to NORM or METAL/CrO₂ (EIAJ**))

Output
Earphones (stereo minijack) load impedance 8 – 300Ω

Power output
4 mW + 4 mW at DC operation (EIAJ, 16Ω)

Power requirements
1.5 V DC
Rechargeable battery
One R6 (size AA) battery
DC IN 1.5 V jack accepts (Using battery case):
Sony AC-D1L AC power adaptor (optional)
available in Japan for use on 100 V AC 50/60 Hz
available in other countries for use on 120 V AC,
60 Hz or 220 V AC, 50 Hz
Sony EBP-500B battery case (optional) for use with
two R20 (size D) batteries
Sony DCC-70 car battery cord (optional) for use with
12 V car battery

Battery life (EIAJ) (DOLBY NR OFF)

Battery	Tape playback
Rechargeable NC-6WM (fully charged)	Approx. 3.5 hours
Sony alkaline battery AM3 (N)	Approx. 7 hours
Sony battery SUM-3 (NS)	Approx. 2 hours
Rechargeable NC-6WM + Sony AM3 (N)	Approx. 10 hours

For maximum performance we recommend the use of alkaline batteries.

Dimensions

Approx. 107.5 × 71.9 × 21.9 mm (w/h/d)
not incl. projecting parts and controls
Approx. 109 × 74.4 × 23.9 mm (w/h/d)
incl. projecting parts and controls (EIAJ)

Weight

Approx. 205 g

Accessories supplied

incl. rechargeable battery, not incl. other accessories
Battery case (1) Sony alkaline battery AM3 (N) (1)
Carrying case (1) Battery charger (1)
Rechargeable battery (1)
Stereo earphones (open-air type, 1)
AC plug adaptor (1)

Note on stereo earphones

Put the cord behind your neck.
The knot cannot be moved.

Design and specifications subject to change without notice.

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

** (EIAJ) Electric Industries Association of Japan

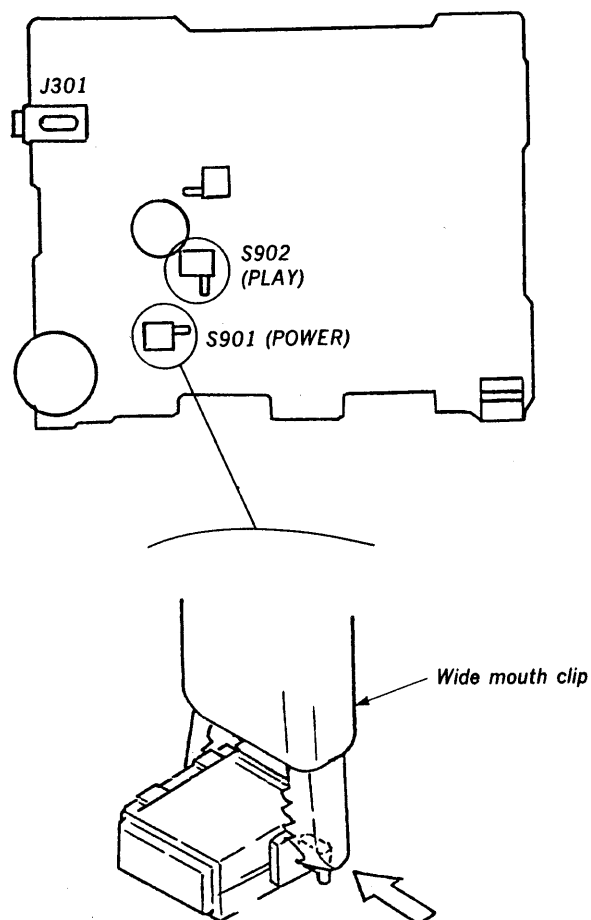
CASSETTE PLAYER

SONY®

SERVICING NOTES

When you are movement check states of removed the audio board, press the PLAY (▶) button, slide on the S901 (POWER) and S902 (PLAY) switches.

AUDIO BOARD —Component side—



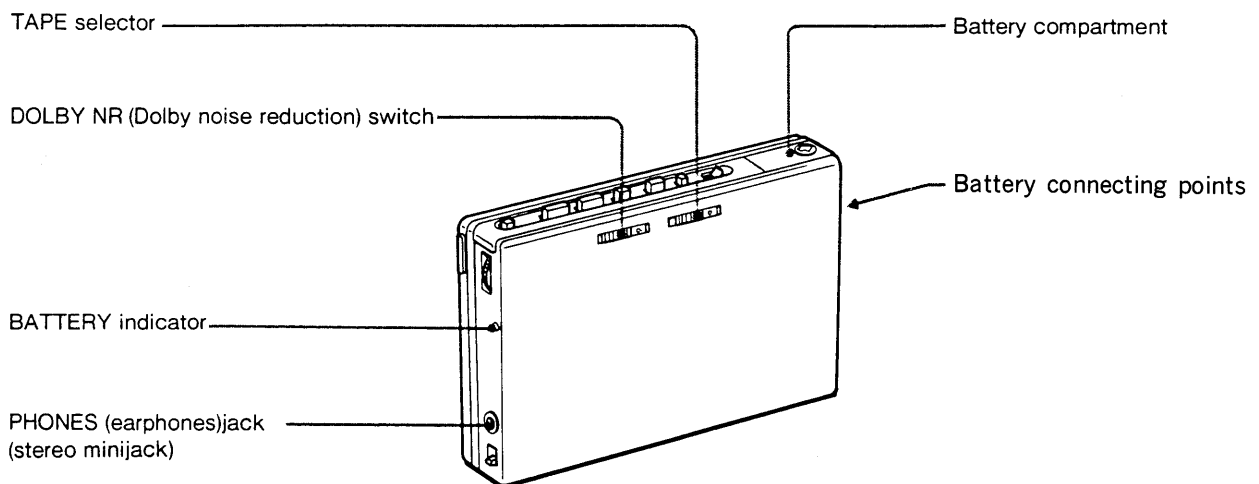
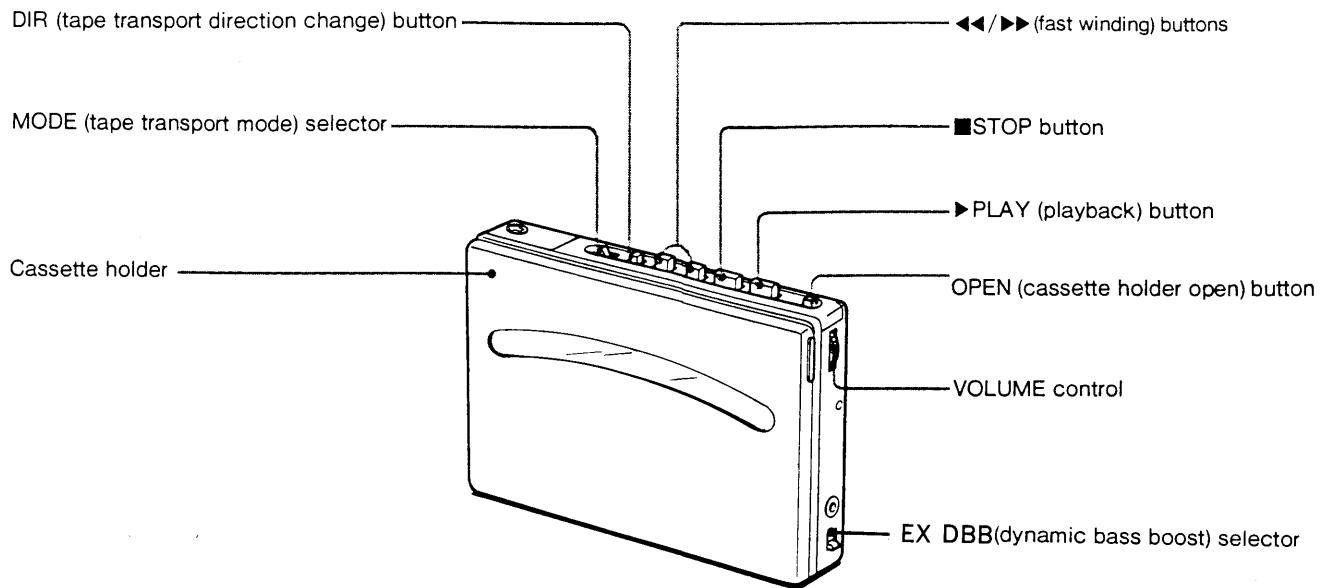
Flexible Circuit Board Repairing

- 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



SECTION 2
ADJUSTMENTS

2-1. MECHANICAL MEASUREMENTS

PRECAUTION

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

playback head

pinch roller

capstan

rubber belts
- 2. Demagnetize the playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the reted power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	20-38g•cm (0.27-0.52oz•inch)
FWD Back Tension		0.5-4g•cm (0.007-0.05oz•inch)
REV	CQ-102RB	20-38g•cm (0.27-0.52oz•inch)
REV Back Tension		0.5-3.5g•cm (0.007-0.05oz•inch)
FF, REW	CQ-201B	more than 60 g•cm (more than 0.83 oz•inch)

Tape Tension Measurement

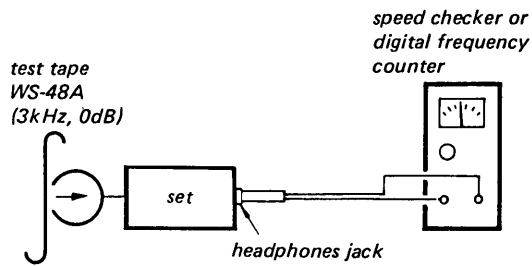
Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40 g•cm (more than 0.54 oz•inch)
REV	CQ-403R	

2-2. ELECTRICAL ADJUSTMENTS

Tape Speed Adjustment

Procedure:

Mode: playback

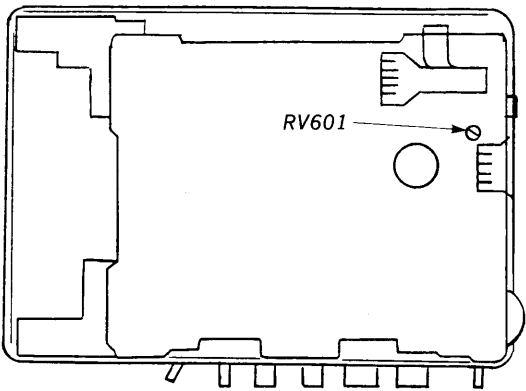


Adjustment value :

speed checker	digital frequency counter
$\pm 1.0\%$	2,970-3,030Hz

Frequency difference between the beginning and the end of the tape should be within $\pm 2.5\%$ ($\pm 75\text{Hz}$).

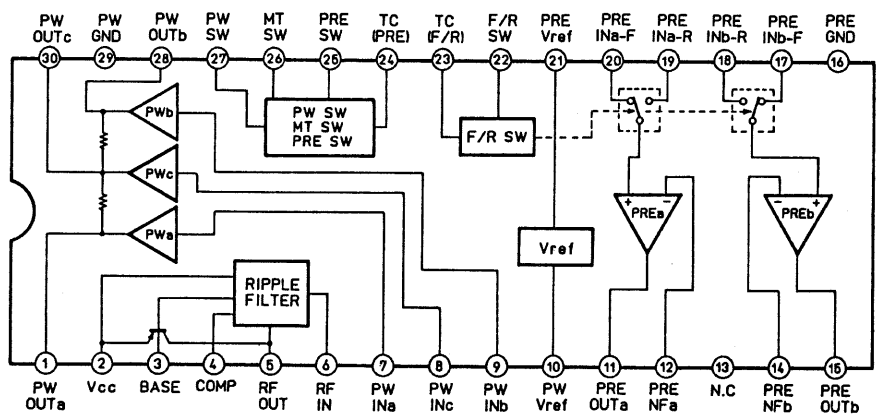
Adjustment Location:



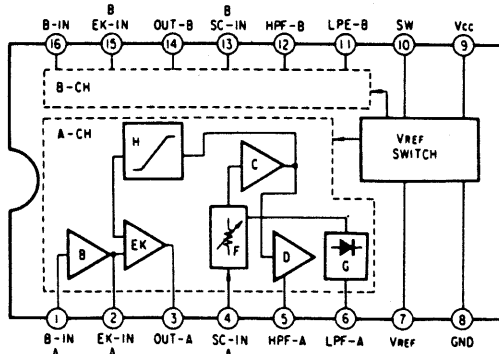
SECTION 3
DIAGRAMS

IC Block Diagrams

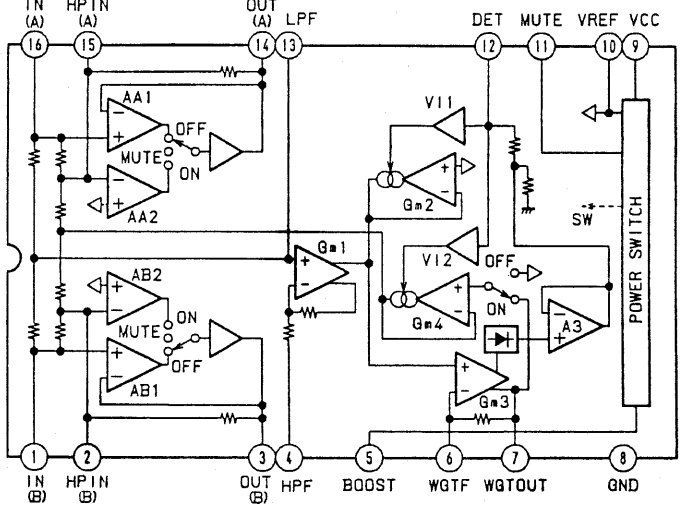
IC301 TA8159FN



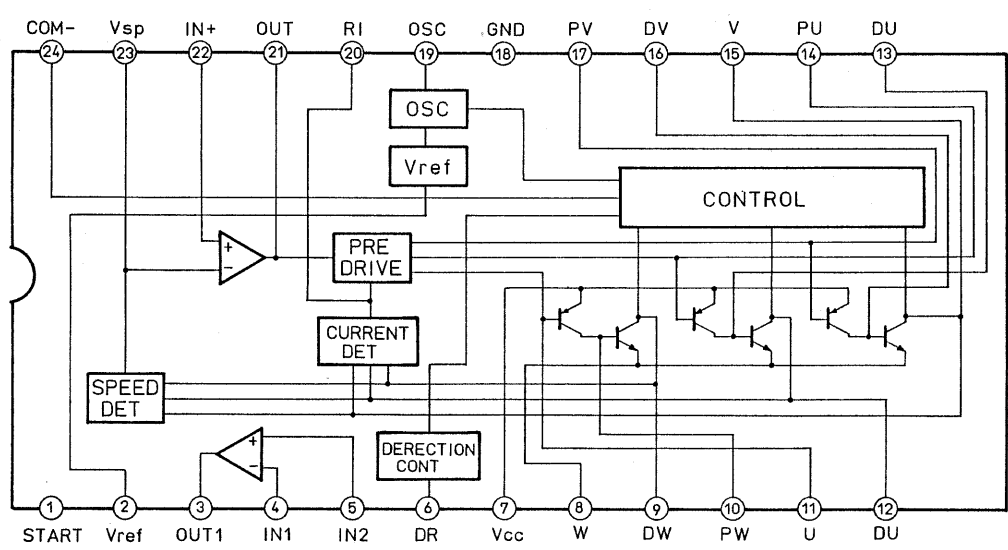
IC302 TA7793F



IC303 NJM2106M



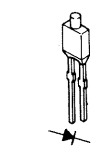
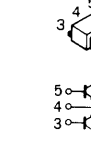
IC601 LB1672M



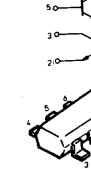
3-1. SEMICONDUCTOR LEAD LAYOUTS

XN1216

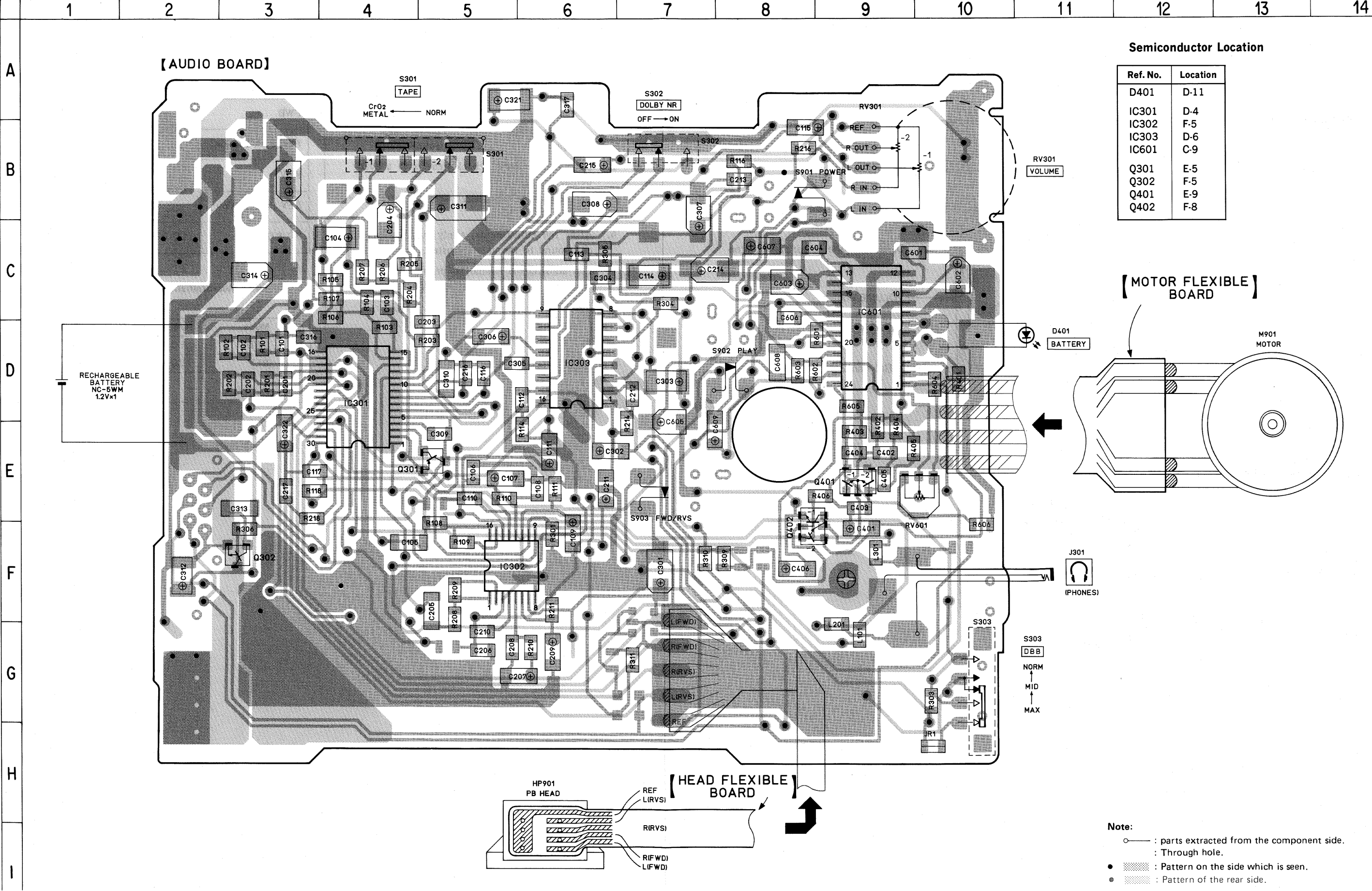
GL2PR90



XN5501



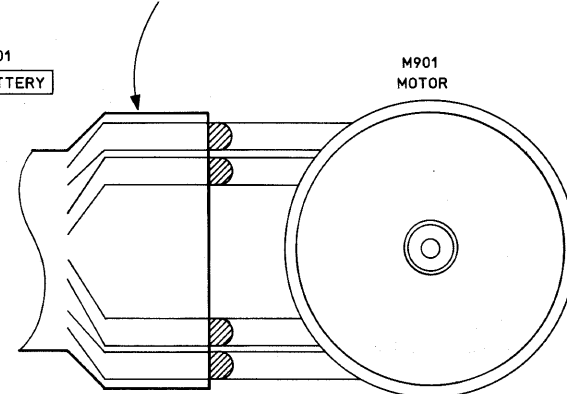
3-2. PRINTED WIRING BOARD



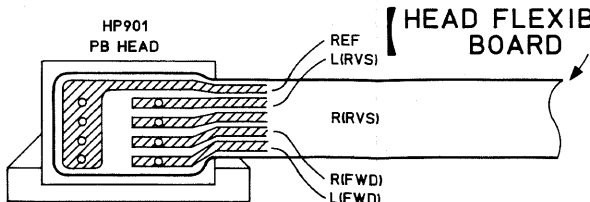
Semiconductor Location

Ref. No.	Location
D401	D-11
IC301	D-4
IC302	F-5
IC303	D-6
IC601	C-9
Q301	E-5
Q302	F-5
Q401	E-9
Q402	F-8

【MOTOR FLEXIBLE BOARD】

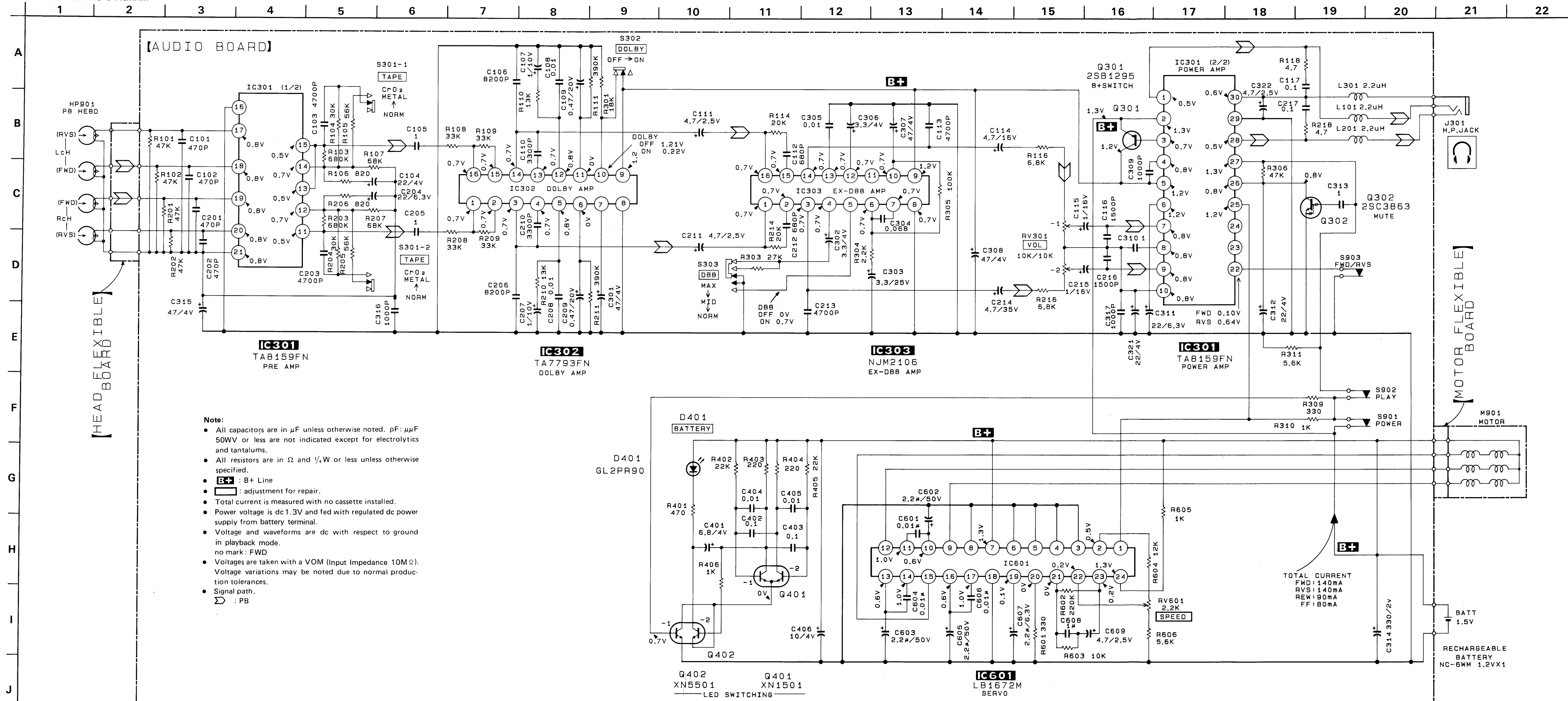


【HEAD FLEXIBLE BOARD】



Note:
○ : parts extracted from the component side.
□ : Through hole.
● : Pattern on the side which is seen.
○ : Pattern of the rear side.

3-3. SCHEMATIC DIAGRAM



SECTION 4

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:

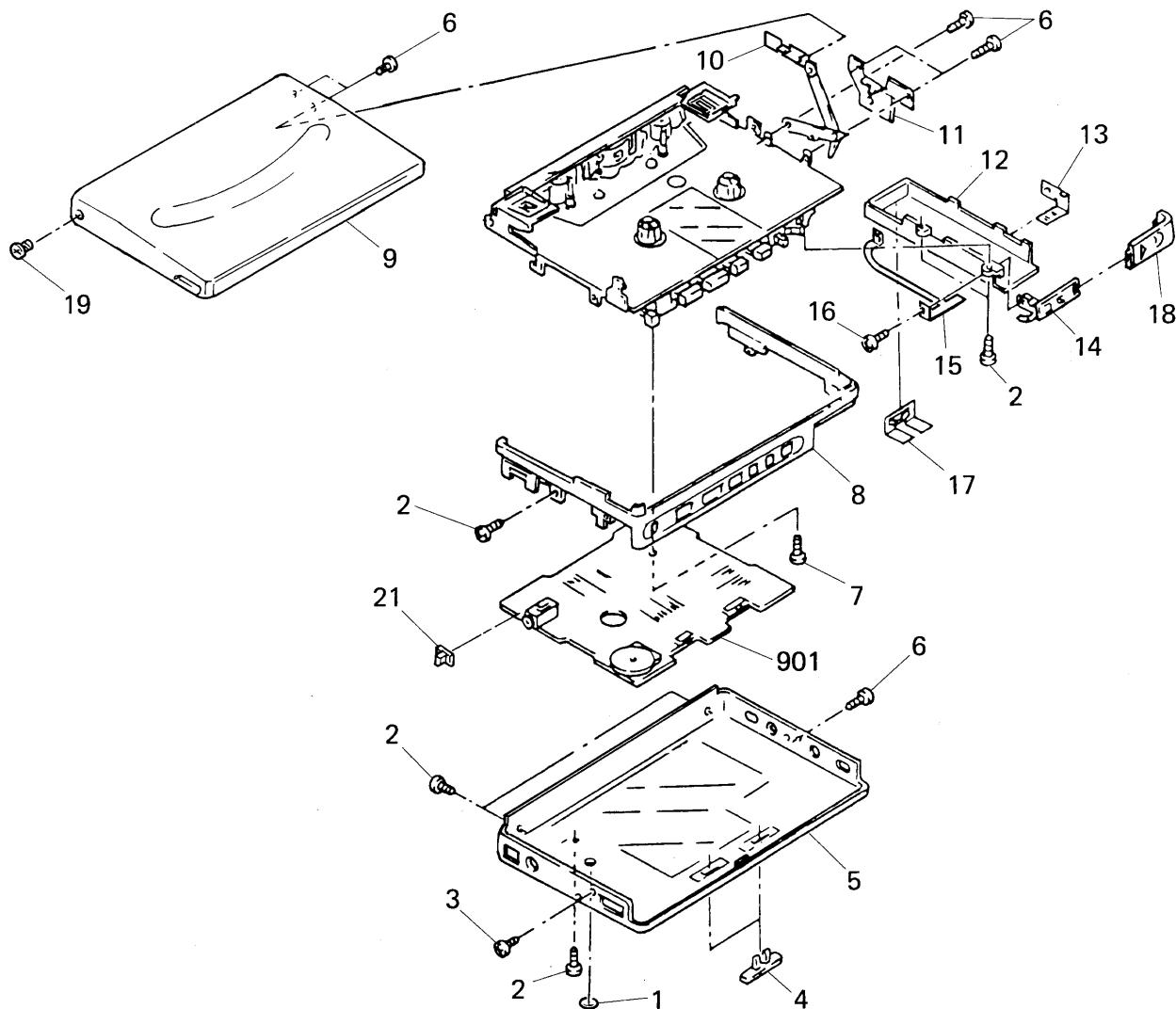
(RED) ... KNOB, BALANCE (WHITE)

$$\begin{array}{ccc} \uparrow & & \uparrow \\ (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) \end{array}$$

Cabinet's Color

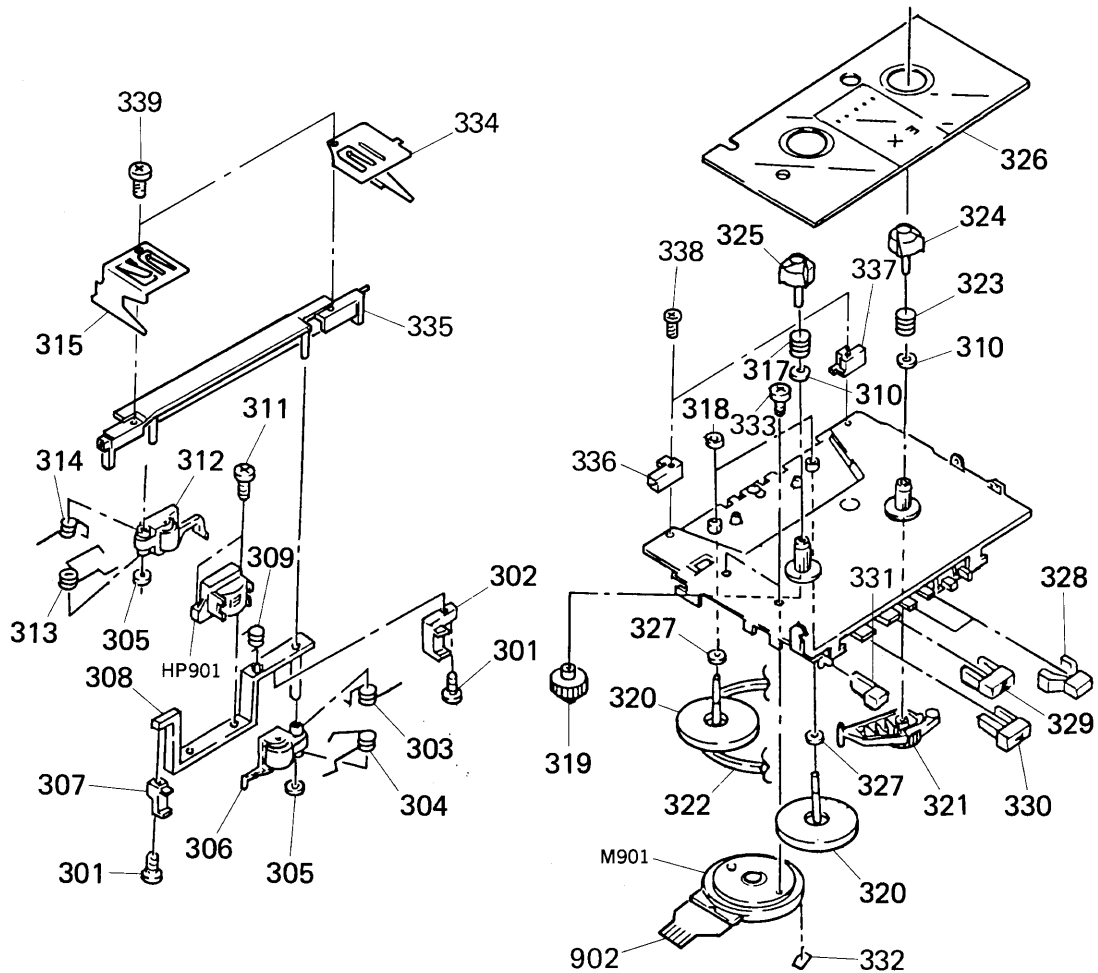
Parts' Color

4-1. CABINET SECTION



<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
1	3-342-380-01	SHEET, SPEED HOLE		12	3-358-705-01	HOLDER, BATTERY	
2	3-704-197-31	SCREW (M1.4X3.0), LOCKING		13	3-347-293-01	CONTACT (MINUS)	
3	3-704-197-61	SCREW (M1.4X4.0), LOCKING		14	X-3348-113-1	BOARD ASSY, TERMINAL, BATTERY	
4	3-348-187-01	KNOB (TAPE)		15	3-358-702-01	CONTACT (PLUS)	
5	X-3348-176-1	PANEL ASSY (B), CONTROL		16	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK	
6	3-704-197-01	SCREW (M1.4X1.6), LOCKING		17	3-353-188-01	TERMINAL BOARD (MINUS)	
7	3-704-197-11	SCREW (M1.4X2.0), LOCKING		18	3-353-599-01	LID, BATTERY CASE	
8	3-358-706-11	ORNAMENT, REEL		19	3-331-665-01	SCREW (M1.4), STEP	
9	X-3348-181-1	LID ASSY (A), CASSETTE		21	3-348-186-01	KNOB (DBB)	
10	X-3348-174-	ARM ASSY, CLICK		901	A-3070-304-A	MOUNTED PCB, AUDIO	
11	3-358-701-01	REINFORCEMENT					

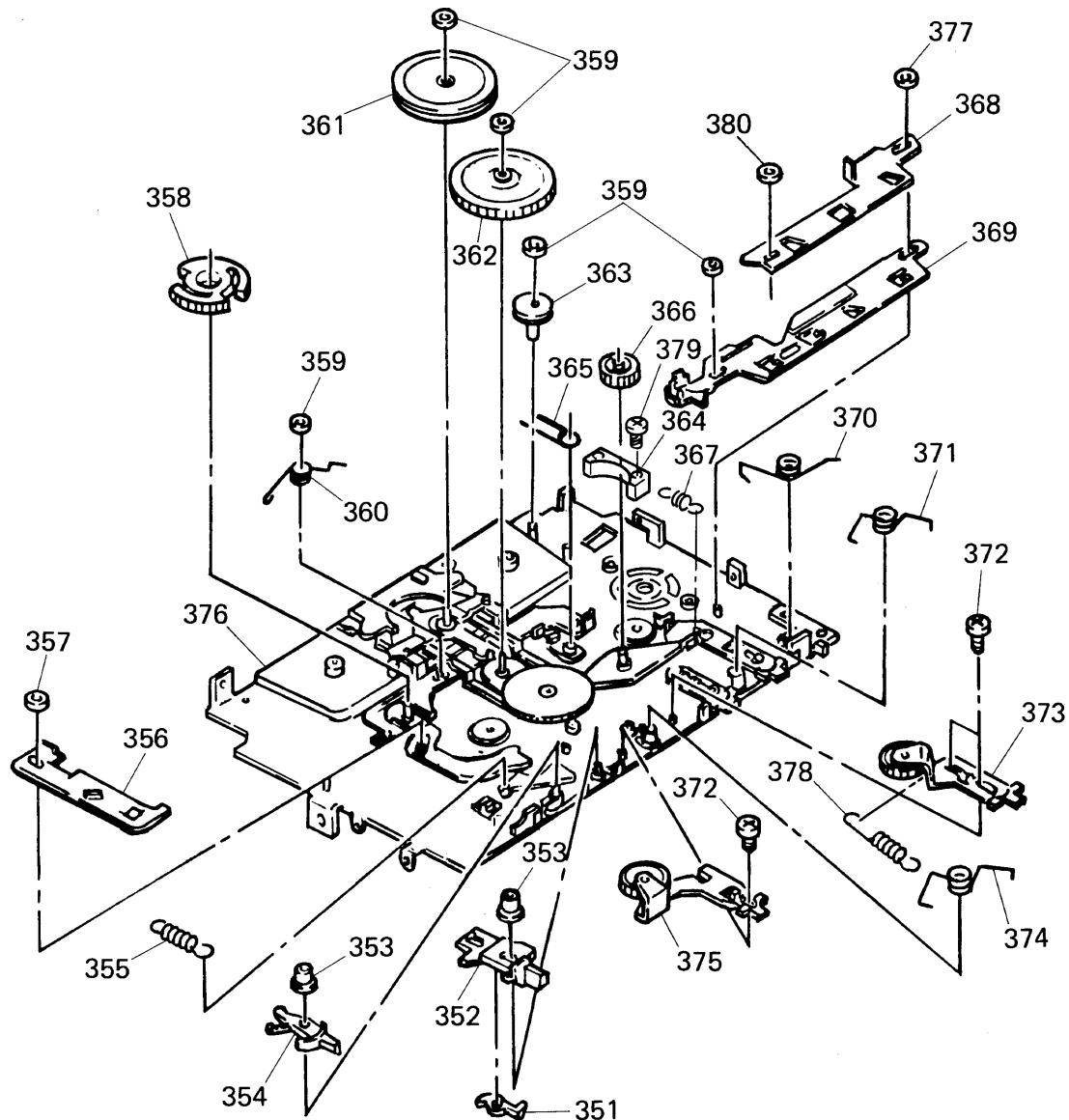
4-2. MECHANISM SECTION 1 (MT-WM-190-45)



Ref.No	Part No.	Description	Remarks
301	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
302	*3-344-693-01	GUIDE (LEFT)	
303	3-341-468-01	SPRING (R)	
304	3-354-420-01	SPRING (PINCH RK), TORSION	
305	3-341-473-01	WASHER (MP)	
306	X-3331-035-1	PINCH LEVER (R) ASSY	
307	*3-344-694-01	GUIDE (RIGHT)	
308	*3-345-725-01	LEVER (AZ), HEAD	
309	3-347-205-01	SPRING (HD LEVER), TORSION	
310	3-348-990-11	WASHER (THRUST)	
311	3-348-998-71	SCREW (M1.4X4.5), TAPPING, PAN	
312	X-3331-036-1	PINCH LEVER (N) ASSY	
313	3-354-421-01	SPRING (PINCH NK), TORSION	
314	3-341-469-01	SPRING (N)	
315	3-342-360-01	HOLDER (RIGHT), CASSETTE	
317	3-348-989-01	SPRING, COMPRESSION	
318	3-352-098-01	WASHER, STOPPER	
319	3-348-151-01	GEAR (TAKE-UP REEL)	
320	X-3352-007-1	WHEEL (X) ASSY, CAPSTAN	
321	X-3348-110-1	LEVER ASSY, PICK UP	
322	3-349-814-01	BELT	

Ref.No	Part No.	Description	Remarks
323	3-354-494-01	SPRING (S REEL), COMPRESSION	
324	3-348-149-01	REEL, SUPPLY	
325	3-348-150-01	REEL, TAKE-UP	
326	3-353-147-01	COVER (X.A), MD	
327	3-354-407-01	WASHER	
328	3-348-138-01	BUTTON (FR)	
329	3-348-136-01	BUTTON (STOP)	
330	3-348-134-01	BUTTON (PLAY)	
331	3-348-129-01	BUTTON (OPEN)	
332	3-703-929-01	SPACER (P)	
333	3-354-448-01	SCREW (TOOTH)	
334	3-342-361-01	HOLDER (LEFT), CASSETTE	
335	X-3352-042-1	HOLDER (SZ) ASSY	
336	3-342-369-01	GUIDE (RIGHT), HOLDER	
337	3-342-368-02	GUIDE (LEFT), HOLDER	
338	3-704-244-63	SCREW (P1.7X4.0)	
339	3-704-381-51	SCREW (M1.4X3.5), TAPPING, PAN	
902	1-629-873-11	PC BOARD, MOTOR FLEXIBLE	
M901	1-541-660-11	MOTOR	
HP901	1-543-650-11	HEAD, MAGNETIC (PLAYBACK)	

4.3. MECHANISM SECTION 2 (MT-WM-190-45)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
351	3-348-101-01	RATCHET		366	3-352-021-01	GEAR (N.X)	
352	3-348-156-01	LEVER, DIR		367	3-348-104-01	SPRING, TENSION	
353	3-348-102-01	BUSHING		368	*3-352-028-01	LEVER (X), SW	
354	3-348-105-01	LEVER, MODE SELECTION		369	X-3348-102-1	LEVER ASSY, LOCK	
355	3-348-163-01	SPRING, TENSION		370	3-348-162-01	SPRING (LOCK), TORSION	
356	*3-352-002-02	LEVER (X), TRIGGER		371	3-348-103-01	SPRING (PLAY), TORSION	
357	3-348-953-11	WASHER		372	3-348-160-01	SCREW (M1.4X1.3),PRECISION PAN	
359	3-348-996-01	WASHER		373	X-3352-004-1	LEVER (X) ASSY, FF	
358	3-352-032-01	GEAR (X), CAM		374	3-348-168-01	SPRING (FR), TORSION	
360	3-348-172-03	SPRING (S.OFF), TORSION		375	X-3352-005-1	LEVER (X) ASSY, REW	
361	3-352-007-01	PULLEY (MIDWAY.X)		376	X-3348-177-1	CHASSIS (X.B) COMPLETE ASSY	
362	X-335-202-73	CLUTCH (X) ASSY		377	3-352-098-01	WASHER, STOPPER	
363	3-352-008-01	PULLEY (REVERSE.X)		378	3-352-026-01	SPRING, TENSION	
364	3-357-918-01	GUIDE (BELT)		379	3-704-252-41	SCREW (M1.4X6)	
365	3-348-159-01	SPRING (NR), TORSION		380	3-357-927-01	WASHER	

SECTION 5 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 F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

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

Ref.No	Part No.	Description					Ref.No	Part No.	Description				
901	A-3070-304-A	MOUNTED PCB, AUDIO					C317	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
902	1-629-873-11	PC BOARD, MOTOR FLEXIBLE					C321	1-128-015-11	ELECT CHIP	22MF	0	4V	
CAPACITOR													
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		C322	1-135-218-11	TANTAL. CHIP	4.7MF	20%	2.5V	
C102	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		C401	1-135-170-21	TANTAL. CHIP	6.8MF	20%	4V	
C103	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V		C402	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C104	1-128-015-11	ELECT CHIP	22MF	0	4V		C403	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C105	1-162-638-11	CERAMIC CHIP	1MF		16V		C404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C106	1-163-020-00	CERAMIC CHIP	0.0082MF	5%	50V		C405	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C107	1-135-208-11	TANTAL. CHIP	1MF	10%	10V		C406	1-135-201-11	TANTAL. CHIP	10MF	20%	4V	
C108	1-164-232-11	CERAMIC CHIP	0.01MF	5%	50V		C601	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C109	1-135-192-21	TANTAL. CHIP	0.47MF	10%	20V		C602	1-126-601-11	ELECT	2.2MF	20%	50V	
C110	1-164-182-11	CERAMIC CHIP	0.0033MF	5%	50V		C603	1-126-601-11	ELECT	2.2MF	20%	50V	
C111	1-135-218-11	TANTAL. CHIP	4.7MF	20%	2.5V		C604	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C112	1-163-007-11	CERAMIC CHIP	680PF	10%	50V		C605	1-126-601-11	ELECT	2.2MF	20%	50V	
C113	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V		C606	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C114	1-128-029-11	ELECT CHIP	4.7MF	0	16V		C607	1-135-149-21	TANTAL. CHIP	2.2MF	20%	6.3V	
C115	1-135-091-00	TANTAL. CHIP	1MF	20%	16V		C608	1-162-638-11	CERAMIC CHIP	1MF		16V	
C116	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V		C609	1-135-218-11	TANTAL. CHIP	4.7MF	20%	2.5V	
C117	1-163-038-00	CERAMIC CHIP	0.1MF		25V		D401	8-719-976-16	DIODE GL2PR90				
C201	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		HP901	1-543-650-11	HEAD, MAGNETIC (PLAYBACK)				
C202	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		IC301	8-759-231-86	IC TA8159FN				
C203	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V		IC302	8-759-230-88	IC TA7793FN				
C204	1-126-605-11	ELECT	22MF	20%	6.3V		IC303	8-759-711-24	IC NJM2106M				
C205	1-162-638-11	CERAMIC CHIP	1MF		16V		IC601	8-759-821-20	IC LB1672M				
C206	1-163-020-00	CERAMIC CHIP	0.0082MF	5%	50V		J301	1-569-361-11	JACK 1P				
C207	1-135-208-11	TANTAL. CHIP	1MF	10%	10V		JR1	1-216-295-00	METAL GLAZE	0	5%	1/10W	
C208	1-164-232-11	CERAMIC CHIP	0.01MF	5%	50V		L101	1-410-997-31	INDUCTOR CHIP	2.2UH			
C209	1-135-192-21	TANTAL. CHIP	0.47MF	10%	20V		L201	1-410-997-31	INDUCTOR CHIP	2.2UH			
C210	1-164-182-11	CERAMIC CHIP	0.0033MF	5%	50V		L301	1-410-997-31	INDUCTOR CHIP	2.2UH			
C211	1-135-218-11	TANTAL. CHIP	4.7MF	20%	2.5V		M901	1-541-660-11	MOTOR				
C212	1-163-007-11	CERAMIC CHIP	680PF	10%	50V		Q301	8-729-807-87	TRANSISTOR 2SB1295-UL6				
C213	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V		Q302	8-729-805-38	TRANSISTOR 2SC3863				
C214	1-126-603-11	ELECT	4.7MF	20%	35V		Q401	8-729-421-23	TRANSISTOR XN1216				
C215	1-135-091-00	TANTAL. CHIP	1MF	20%	16V		Q402	8-729-402-75	TRANSISTOR XN5501				
C216	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V		RESISTOR						
C217	1-163-038-00	CERAMIC CHIP	0.1MF		25V		R101	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
C301	1-126-607-11	ELECT	47MF	20%	4V		R102	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
C302	1-135-180-21	TANTAL. CHIP	3.3MF	20%	4V		R103	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
C303	1-128-034-11	ELECT CHIP	3.3MF	0	25V		R104	1-216-084-00	METAL GLAZE	30K	5%	1/10W	
C304	1-163-833-00	CERAMIC CHIP	0.068MF	10%	25V		R105	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
C305	1-164-232-11	CERAMIC CHIP	0.01MF	5%	50V		R106	1-216-047-00	METAL GLAZE	820	5%	1/10W	
C306	1-135-180-21	TANTAL. CHIP	3.3MF	20%	4V		R107	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
C307	1-126-607-11	ELECT	47MF	20%	4V		R108	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
C308	1-126-607-11	ELECT	47MF	20%	4V		R109	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
C309	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		R110	1-216-076-00	METAL GLAZE	13K	5%	1/10W	
C310	1-162-638-11	CERAMIC CHIP	1MF		16V		R111	1-216-111-00	METAL GLAZE	390K	5%	1/10W	
C311	1-126-605-11	ELECT	22MF	20%	6.3V		R114	1-216-080-00	METAL GLAZE	20K	5%	1/10W	
C312	1-135-202-21	TANTAL. CHIP	22MF	20%	4V		R116	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
C313	1-162-638-11	CERAMIC CHIP	1MF		16V		R118	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	
C314	1-126-608-11	ELECT	330MF	20%	2V		R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
C315	1-126-607-11	ELECT	47MF	20%	4V								
C316	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V								

Ref.No	Part No.	Description			
R202	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R203	1-216-117-00	METAL GLAZE	680K	5%	1/10W
R204	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R205	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R206	1-216-047-00	METAL GLAZE	820	5%	1/10W
R207	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R208	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R209	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R210	1-216-076-00	METAL GLAZE	13K	5%	1/10W
R211	1-216-111-00	METAL GLAZE	390K	5%	1/10W
R214	1-216-080-00	METAL GLAZE	20K	5%	1/10W
R216	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R218	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R301	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R303	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R304	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R305	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R306	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R309	1-216-037-00	METAL GLAZE	330	5%	1/10W
R310	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R311	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R401	1-216-041-00	METAL GLAZE	470	5%	1/10W
R402	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R403	1-216-033-00	METAL GLAZE	220	5%	1/10W
R404	1-216-033-00	METAL GLAZE	220	5%	1/10W
R405	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R406	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R601	1-216-037-00	METAL GLAZE	330	5%	1/10W
R602	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R603	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R604	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R605	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R606	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
RV301	1-238-488-11	RES, VAR, CARBON 10K/10K (VOL)			
RV601	1-238-202-11	RES, ADJ, METAL GLAZE 2.2K (SPEED)			
S301	1-571-277-11	SWITCH, SLIDE (TAPE)			
S302	1-571-275-11	SWITCH, SLIDE (DOLBY NR)			
S303	1-571-506-41	SWITCH, SLIDE (DBB)			
S901	1-571-585-11	SWITCH, PUSH (1 KEY) (POWER)			
S902	1-571-585-11	SWITCH, PUSH (1 KEY) (PLAY)			
S903	1-571-585-11	SWITCH, PUSH (1 KEY) (FWD/RVS)			

Ref.No	Part No.	Description
		ACCESSORIES & PACKING MATERIALS

	1-526-565-00	AC PLUG ADAPTOR
	1-528-231-11	BATTERY, NICKEL CADMIUM (NC-6WM)
	1-528-231-11	BATTERY, NI-CD (NC-6WM)
	△1-528-234-11	BATTERY CHARGER (BC-7L)
	1-550-492-11	CASE, BATTERY
	* 3-352-084-01	HOLDER
	* 3-358-716-01	CUSHION (UPPER)
	* 3-358-719-01	INDIVIDUAL CARTON
	3-358-724-01	CASE, CARRYING
	3-751-530-11	MANUAL, INSTRUCTION
	8-953-333-90	HEADPHONE MDR-E545 SET

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