

# WM-DD9

## SERVICE MANUAL



US Model  
Canadian Model  
AEP Model  
UK Model  
E Model

Refer to MDR-E575 Service Manual issued previously  
for information of headphones supplied with this set.

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WMDD9-42

### SPECIFICATIONS

Wow and flutter	$\pm 0.22\%$ W. Peak (DIN)
	0.13% WRMS (NAB)
S/N ratio	48 dB
Total harmonic distortion	1.0%
Frequency response (DOLBY NR off)	20 – 20,000 Hz
Output	Earphones jack, load impedance 8 – 300 ohms
Power output	5 mW + 5 mW at DC operation (16 ohms)
Power requirements	1.5 V DC
	Rechargeable battery
	One R6 (size AA) battery
	DC IN 1.5 V jack accepts:
	Sony power adaptor (not supplied)
	Sony EBP-500B battery case (not supplied) for use
	with two R6 (size AA) batteries
	Sony DCC-70 car battery cord (not supplied) for
	use with 12 V car battery

#### Battery life

Battery	Playback
Rechargeable NC-6WM fully charged	Approx. 2.5 hours
Sony battery SUM-3 (NS)	Approx. 1 hour
Sony alkaline battery AM3 (N)	Approx. 5.5 hours

For maximum performance, we recommend the use of alkaline batteries.

Dimensions	Approx. 76.8 × 108 × 28.3 mm (w/h/d) (3 <sup>1</sup> / <sub>8</sub> × 4 <sup>3</sup> / <sub>8</sub> × 1 <sup>1</sup> / <sub>8</sub> inches) not incl. projecting parts and controls Approx. 77.7 × 109.2 × 33.1 mm (w/h/d) (3 <sup>1</sup> / <sub>8</sub> × 4 <sup>3</sup> / <sub>8</sub> × 1 <sup>1</sup> / <sub>8</sub> inches) incl. projecting parts and controls
Weight	Approx. 330 g (12 oz) incl. rechargeable battery not incl. other accessories
Accessories supplied	Carrying case (1) Battery charger (1) Rechargeable battery (1) Stereo earphones (open-air type, 1) Earphones case (1) Ear adaptor (2)


Design and specifications subject to change without notice.

**Note:** Use only the recommended AC power adaptor or car battery cord  
manufactured by Sony.

Polarity of the plugs of other manufacturers may be different.



Dolby noise reduction manufactured under license from  
Dolby Laboratories Licensing Corporation.

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Dolby Laboratories Licensing Corporation.

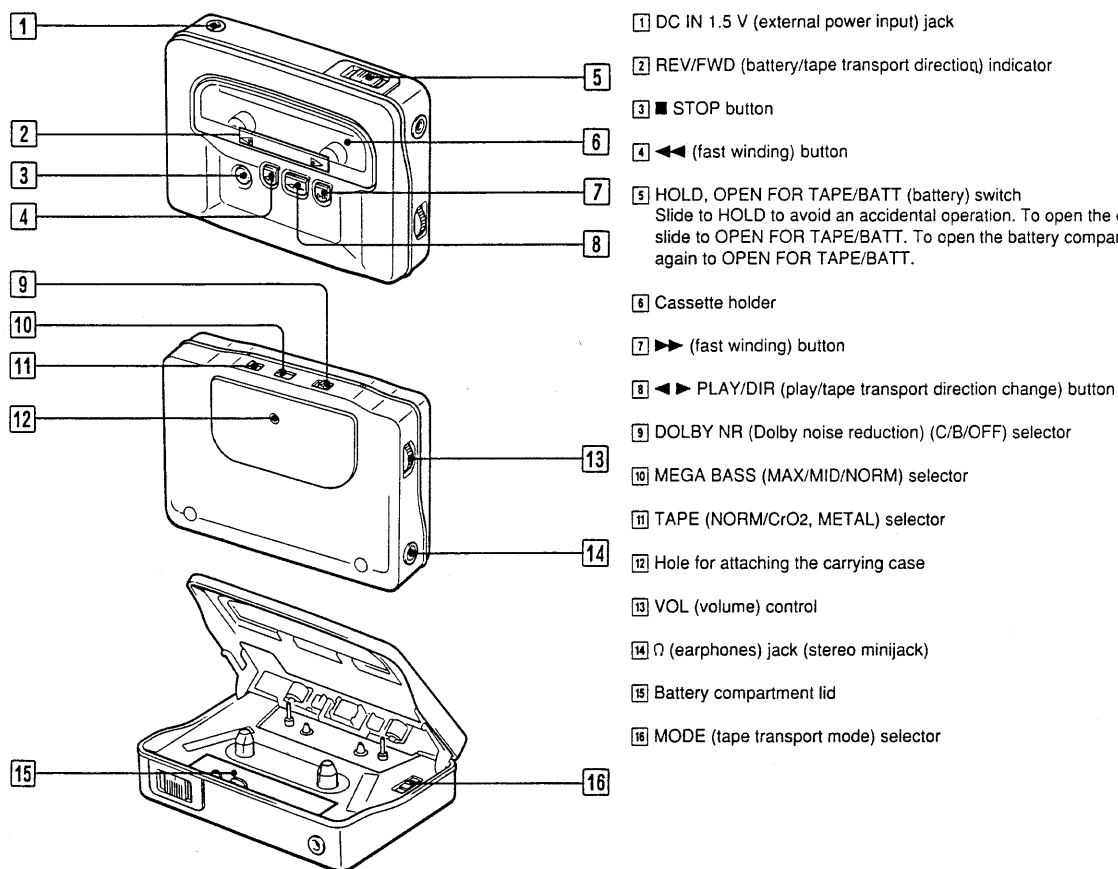
STEREO CASSETTE PLAYER  
**SONY**®



## SECTION 1

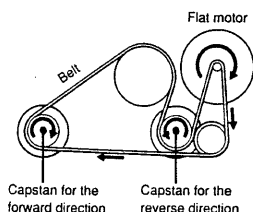
### GENERAL

#### Parts Identification

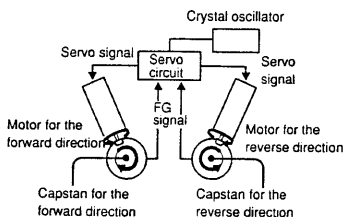


- **Two-motor Disc Drive mechanism and Quartz lock capstan servo** assure accurate and stable tape transport, greatly reducing wow and flutter. One motor is provided for the forward direction and another for the reverse direction. Since the rotation of motors is controlled by the accurate frequency of the quartz servo, distortion of the sound caused by the unit being moved is slight.

Drive system of normal auto-reverse Walkman



Drive system of WM-DD9



#### 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.

## SECTION 2

### SERVICING NOTES

This set detects reel rotation by the PH701 (photo interrupter). Since the PH701 is mounted on the main board, if the main board is removed, the reel rotation cannot be detected and normal operation is not possible.

In addition, the S702 (FWD HEAD switch) and S703 (REV HEAD switch), which operate in tandem with the lever in the mechanical deck, are also mounted on the main board.

If the main board is removed, power supply for the playback circuit, battery level check and initial reset will not be possible.

Use the following method to perform a check of the mechanical deck operation and the voltage in a state that is the same as when the main board is attached. Be sure at this time to first turn the S505 (OPEN switch) on the sub board to the off state.

#### Initial reset

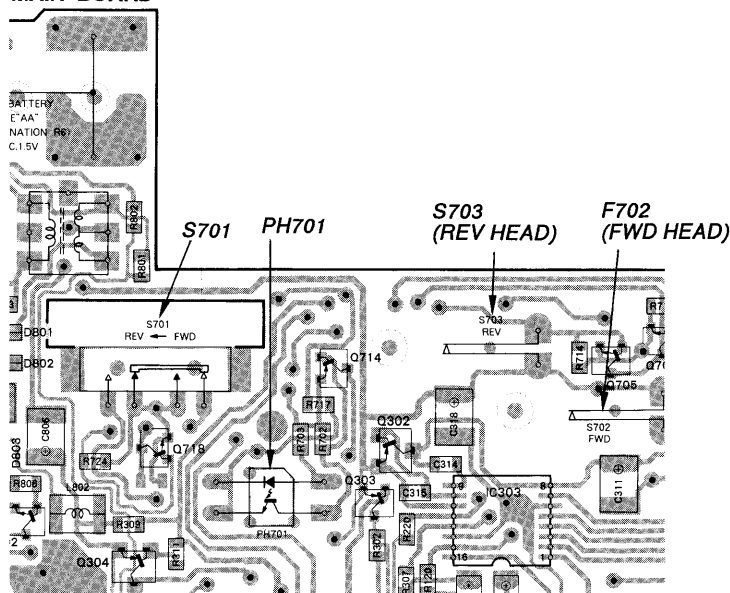
1. Turn S701 to the FWD side and supply power of 1.5 V.
2. Turn on S703 (momentarily). (The P lever (R) will go up and down until it is turned on.)
3. Turn on S702 (momentarily). (The P lever (N) will go up and down until it is turned on.)

This finishes initial reset. The set is now in the standby state for key input.

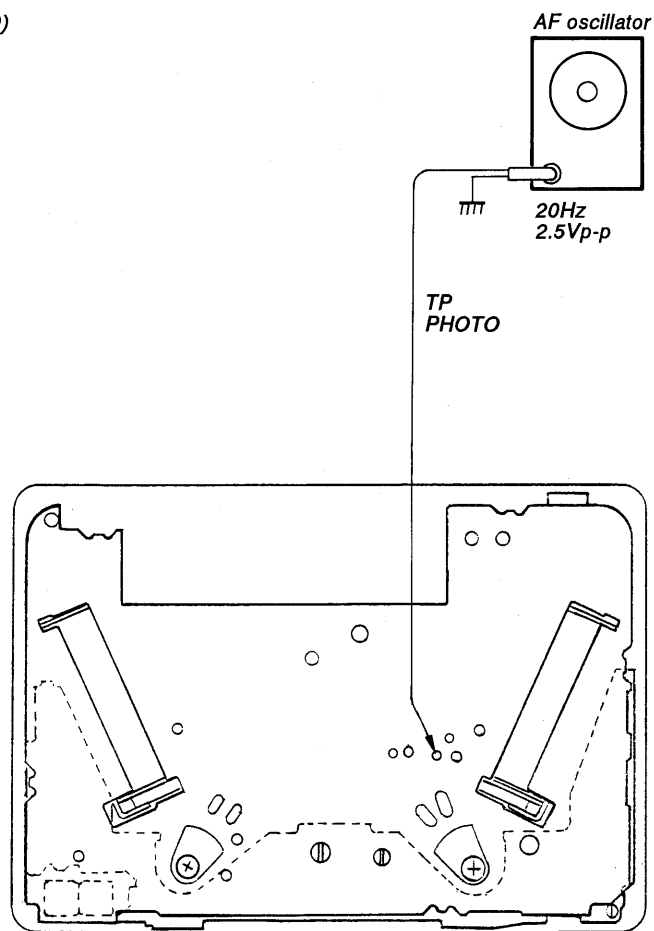
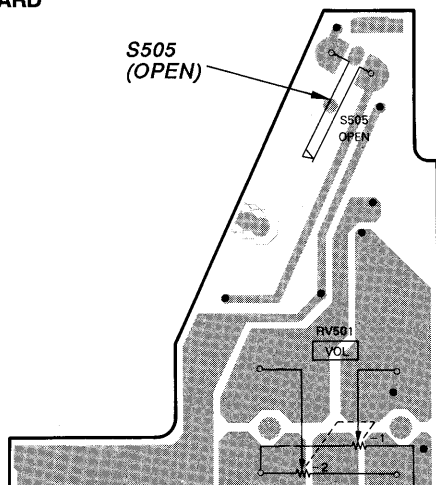
#### To operate:

1. Perform initial reset.
2. Input a square wave from the AF oscillator.
3. Operational mode:
  - 3-1. FWD mode while S702 is on.
  - 3-2. REV mode while S703 is on (S701 is the REV side).
  - 3-3. FF mode when the ►► key is pressed.
  - 3-4. REW mode when the ◄◄ key is pressed.
4. Return to standby state.
  - 4-1. To return from the FWD mode, turn off S702 and turn S702 on again for about 1 second.
  - 4-2. To return from REV mode, turn off S703 and turn S703 on again for about 1 second.
  - 4-3. To return from the FF or REW mode, press the ■ key.

MAIN BOARD



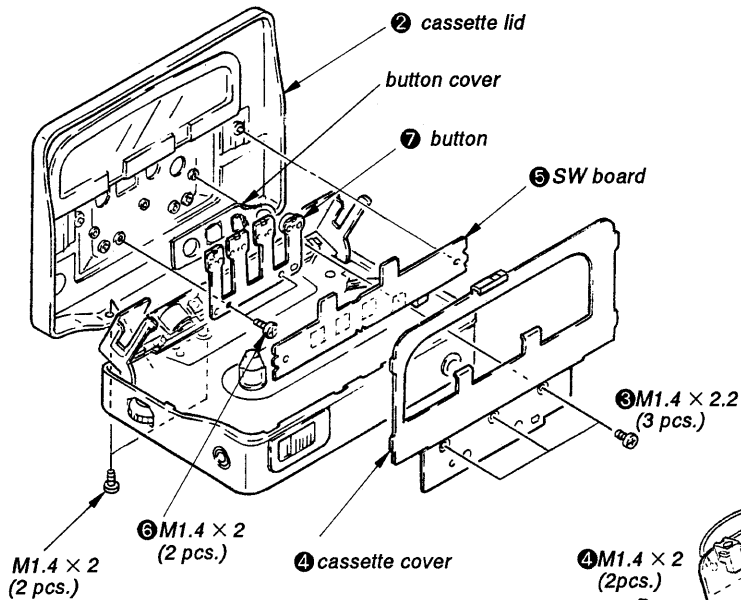
SUB BOARD



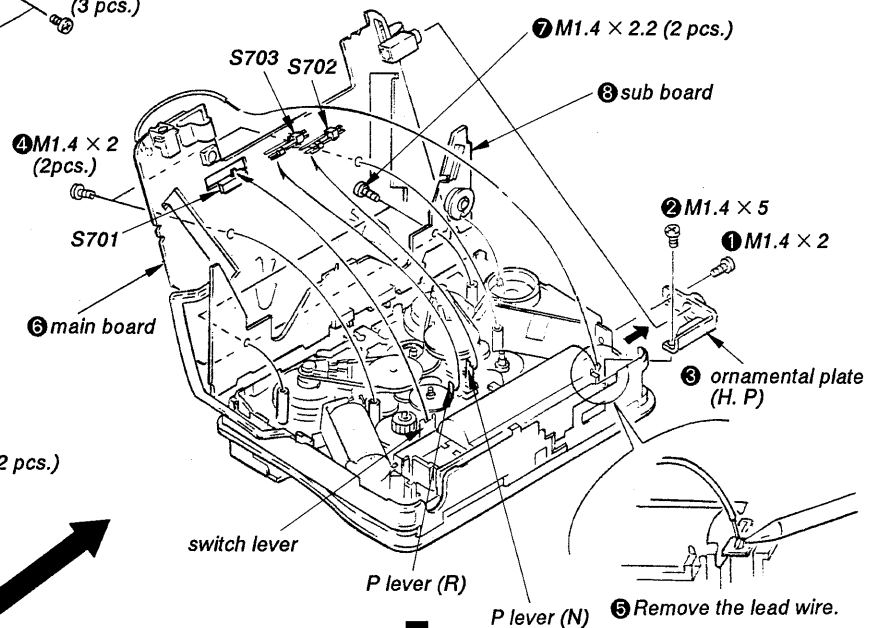
## SECTION 3 DISASSEMBLY

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

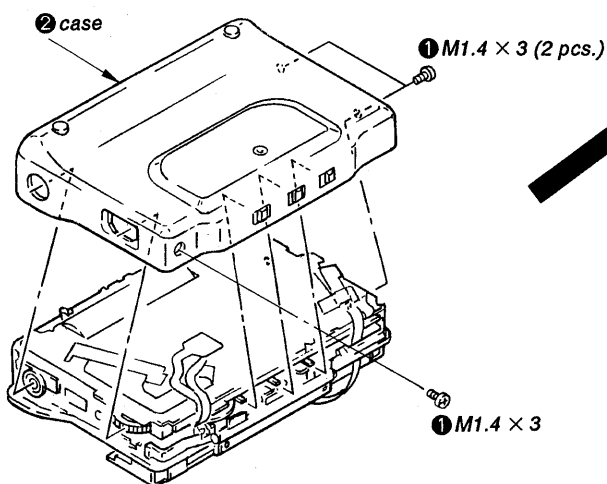
### CASSETTE LID / SW BOARD



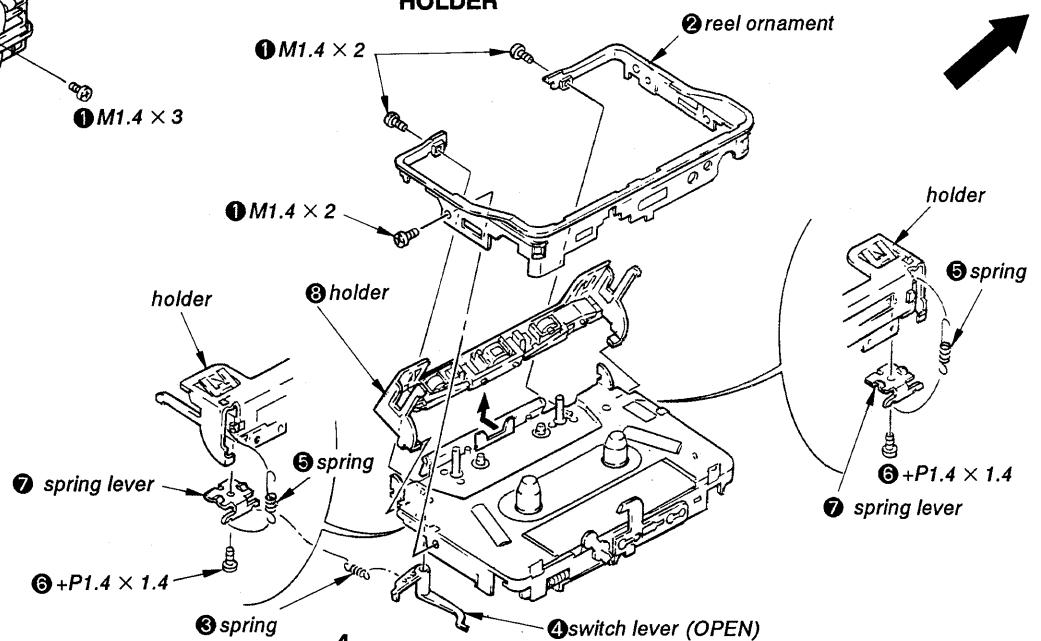
### MAIN / SUB BOARD



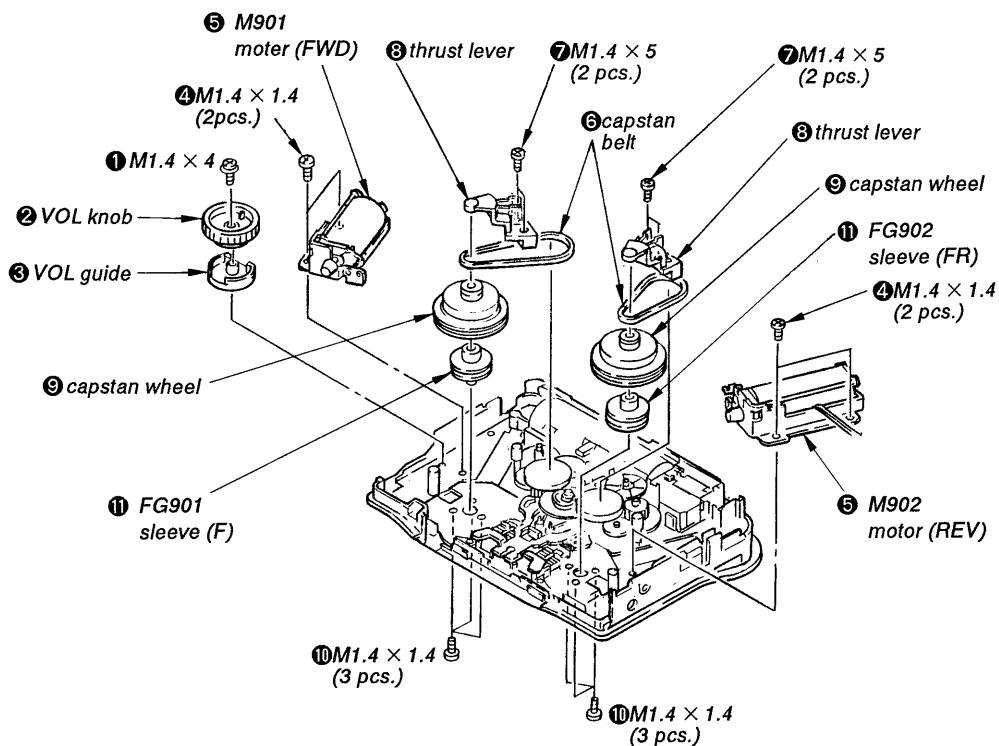
### CASE



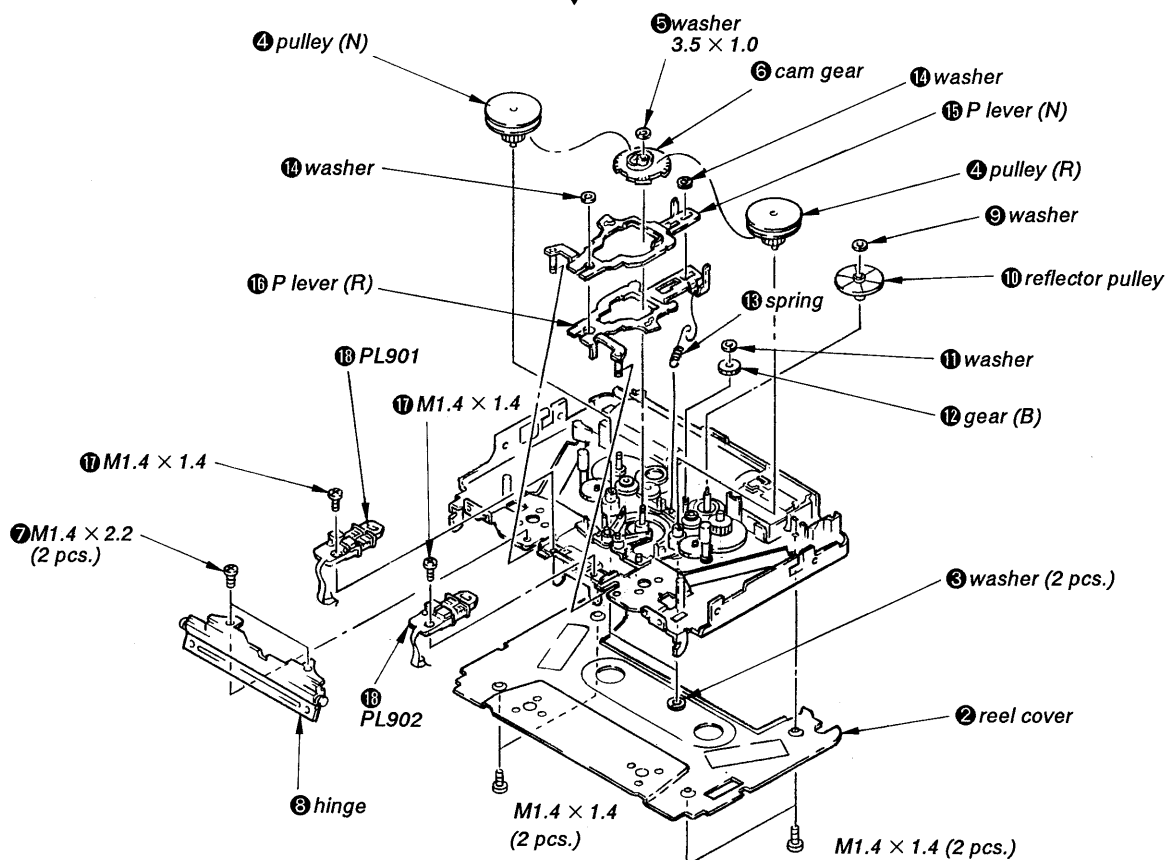
### HOLDER



# **MOTOR (M901, M902), SLEEVE (FG901, FG902)**



# **PLUNGER (PL901, PL902)**



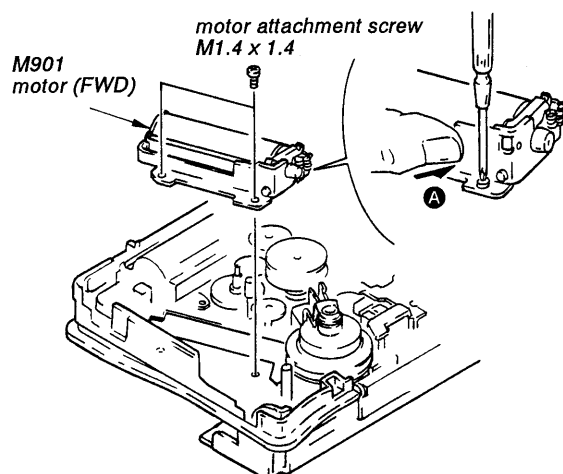
## Note on Replacing Motor

After replacing the motor (M901, M902), the capstan wheel and the sleeve (FG901, FG902), be sure to adjust the motor position and adjust for wow and flutter.

### Installing the motor.

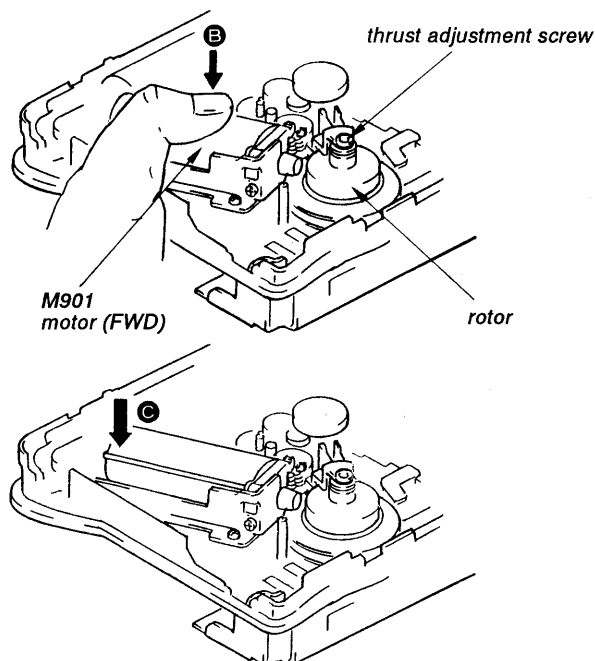
1. Temporarily tighten the motor attachment screw.
2. Tighten the screw while pressing down in the direction shown by the arrow **A**.

**Note:** Attach M902 (REV) in the same way.



### Motor Position Adjustment

1. Loosen the thrust adjustment screws.
2. Tighten the screw while pushing the motor lightly in the direction shown by arrow **B**. Make sure at this time that the thrust play is within 0.1 mm. To check the play, press and release the motor in the direction of arrow **C** and make sure that the motor pulley and rotor rubber section do not contact with each other.
3. After the adjustments, apply suitable locking compound to the thrust adjustment screws.



**Note:** Adjust in the same way on the M902 (REV) side.

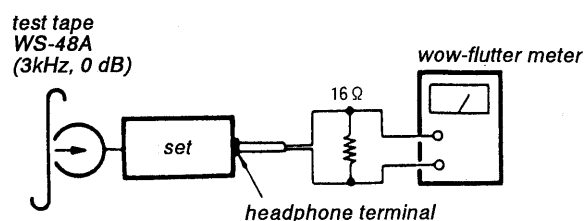
## Wow and Flutter Adjustment

### Setting:

- Power supply voltage : 1.3 V
- Tape : Use area near end of tape
- VOL knob : Mechanical center
- TAPE switch : NORM
- DOLBY NR switch : OFF
- MEGA BASS switch : NORM

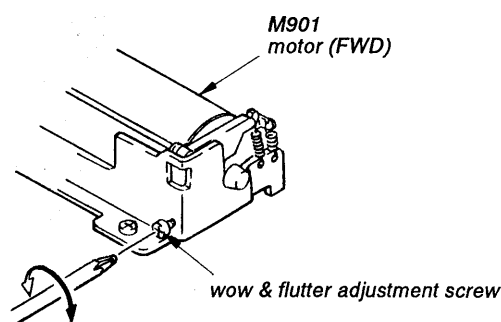
### Procedure:

1. Mode : playback



Turn the adjustment screw until the reading on the wow-flutter meter is 0.12% W•RMS or less (minimum value).

2. Confirm that normal PLAY operation is possible at a power supply voltage of 1.0 V.
3. If the conditions in steps 1 and 2 are not satisfied, re-adjust starting with "installing the motor".



**Note:** Adjust in the same way on the M902 (REV) side.

SECTION 4  
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENT

PRECAUTION

- 1. Clean the following parts with a denatured-alcohol-moistened swab:  
    playback head                      pinch roller  
    rubber belts                      capstan  
    idler
- 2. Demagnetize the playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	20 to 40 g• cm (0.28 to 0.55 oz• inch)
FWD Back Tension	CQ-102C	1 to 3.5 g• cm (0.014 to 0.048 oz•inch)
REV	CQ-102RB	20 to 40 g• cm (0.28 to 0.55 oz• inch)
REV Back Tension	CQ-102RB	1 to 3.5 g• cm (0.014 to 0.048 oz•inch)
FF, REW	CQ-201B	more than 50 g• cm (more than 0.70 oz•inch)

Tape Pulling Force Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g (more than 1.77 oz)
REV	CQ-403R	more than 50 g (more than 1.77 oz)

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

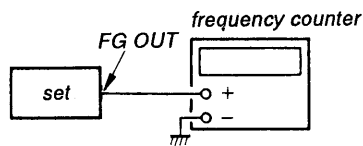
- 1. Power supply voltage: 1.3V
- 2. Switch position  
    TAPE switch                      : NORM  
    DOLBY NR switch                : OFF  
    MEGA BASS switch               : NORM

• Test tape

Type	Signal	User for
P-4-L300	315 Hz, 0 dB	DOLBY NR lever Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

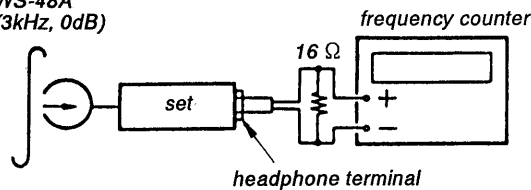
### Tape Speed Adjustment

Procedure:



1. Open the PLL terminal and set into FF mode. At this time adjust RV601 so that the frequency counter reading is  $793 \pm 3\text{Hz}$ . (Also check the REW mode).
2. Short the PLL terminal and confirm that the frequency counter reading is  $769 \pm 1\text{Hz}$  in the FF mode.

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



3. Play back WS-48A (tape center portion) and confirm that the frequency counter reading is  $3,000 \pm 9\text{Hz}$  for both FWD and REV.

Adjustment Location: sub board

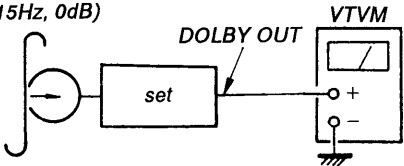
### DOLBY NR level Adjustment

DOLBY NR switch : OFF  
VOL knob : minimum  
MEGA BASS switch : NORM  
TAPE B switch : NORM

#### Procedure:

1. Mode : playback

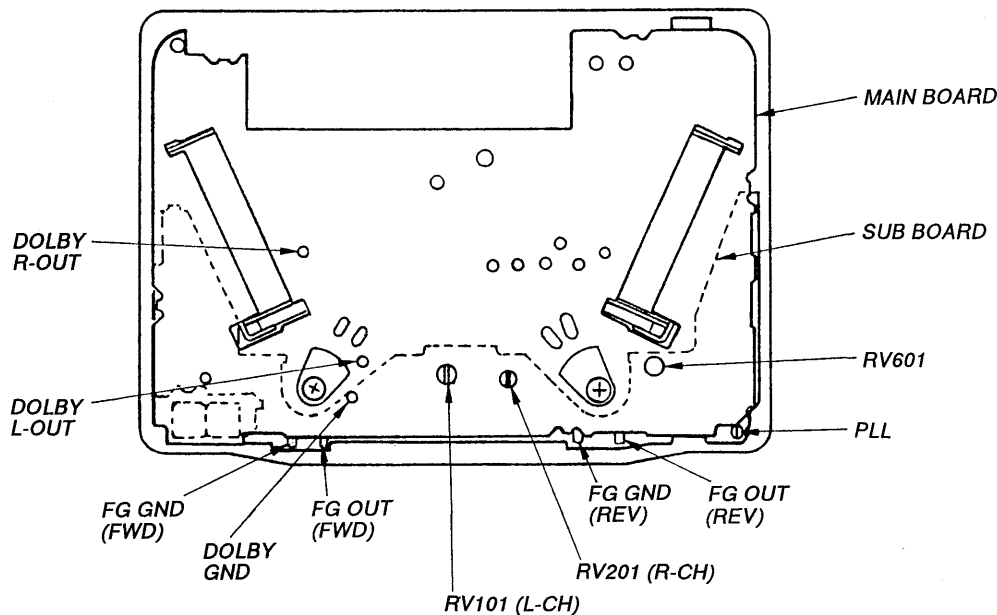
test tape  
P-4-L300  
(315Hz, 0dB)



2. Adjust RV101 (L-CH) and RV201 (R-CH) so that the VTVM reading is  $-30.5^{+1.5}_{-0.5}\text{dB}$ .

Adjustment Locatin: main board

### Adjustment Parts Location Diagram





## 5-1. PRINTED WIRING BOARDS

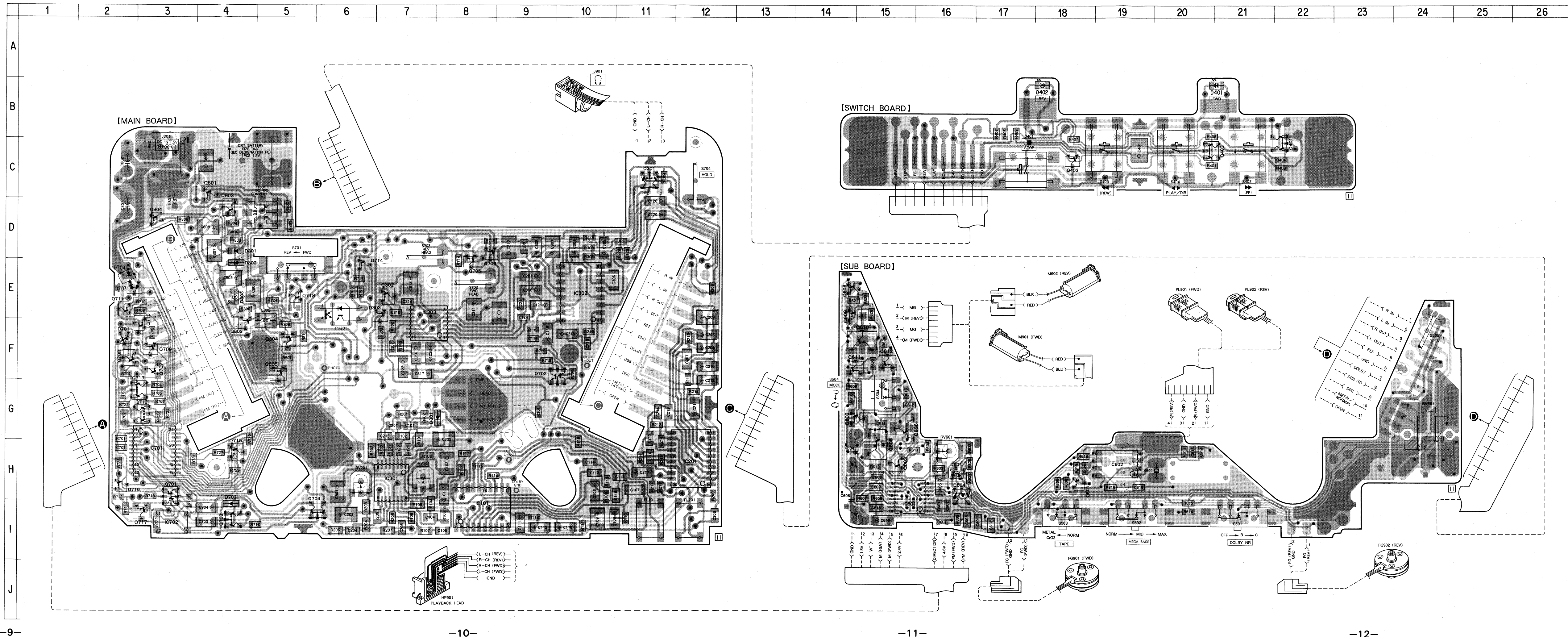
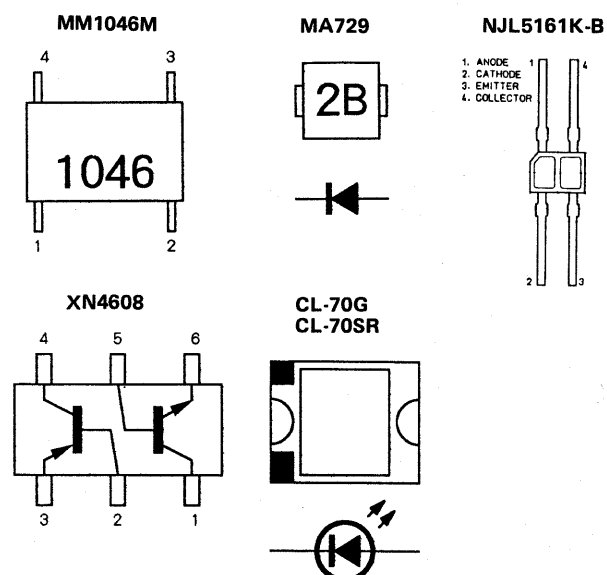
**Note:**

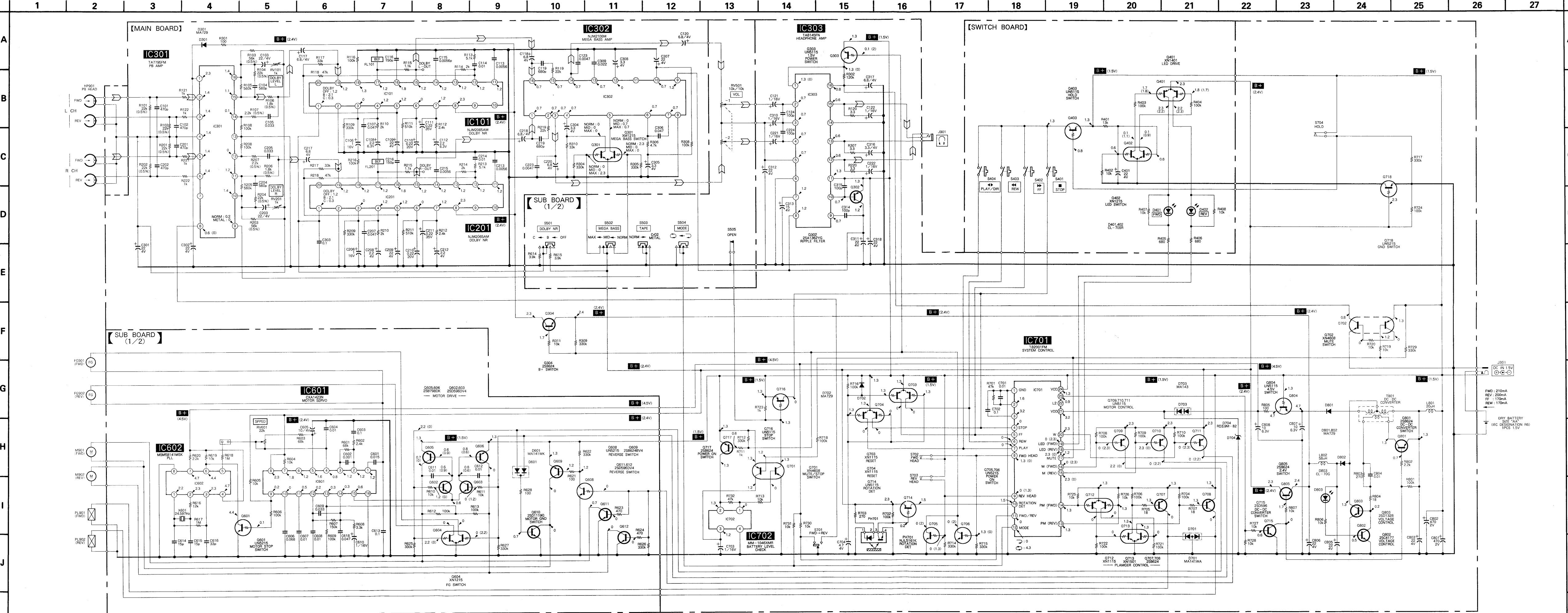
- ○ — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.

### Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	G-8	G603	H-15
D401	B-18	G604	H-16
D402	B-21	G605	H-15
D601	H-16	G606	G-15
D701	F-2	G608	E-14
D702	I-4	G609	E-14
D703	E-2	G610	F-15
D704	E-2	G611	F-15
D801	D-4	G612	F-15
D802	E-4	G701	H-3
D803	E-4	G702	F-9
		G703	I-4
IC101	I-8	G704	I-6
IC201	H-12	G705	E-8
IC301	H-7	G706	D-8
IC302	E-10	G707	F-3
IC303	E-7	G708	F-3
I-601	I-15	G709	F-2
IC602	H-19	G710	F-3
IC701	H-3	G711	E-2
IC702	I-3	G712	G-3
		G713	G-3
PH701	F-6	G714	E-6
		G715	H-4
Q301	C-11	G716	H-2
Q302	E-7	G717	I-3
Q303	E-7	G718	E-5
Q304	F-5	G801	C-4
Q401	C-22	G802	F-4
Q402	C-21	G803	D-4
Q403	C-18	G804	D-3
Q601	H-18	G805	F-5
G602	G-14		

## Semiconductor Lead Layouts





Note:

All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$   
 50 WV or less are not indicated except for electrolytics  
 and tantalums.

• All resistors are in  $\Omega$  and  $\frac{1}{4}$  W or less unless otherwise  
 specified.

• % : indicates tolerance.

• 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 external power voltage jack.

Voltages and waveforms are dc with respect to ground in  
 playback mode.

no mark : FWD

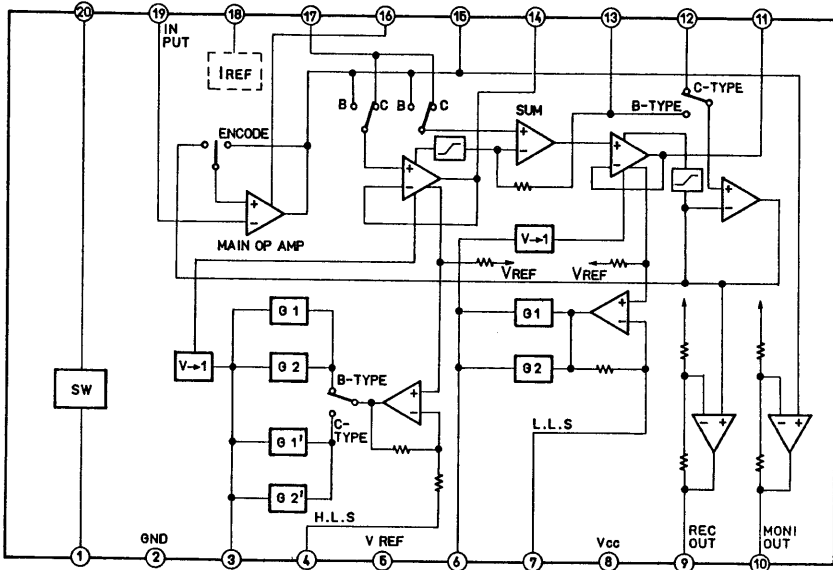
( ) : REV

Voltage variations may be noted due to normal production  
 tolerances.

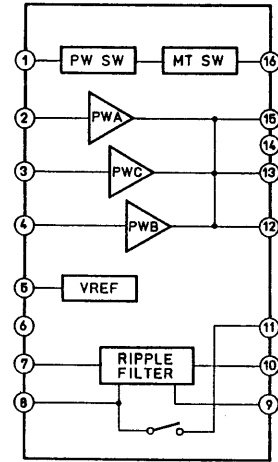
• Signal path.

⊂ : PB

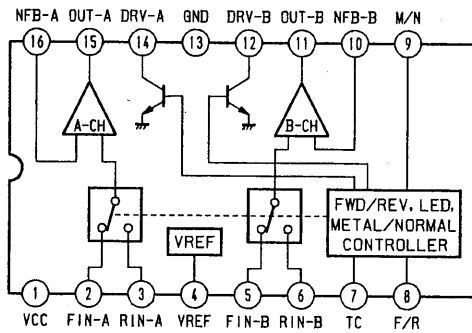
**IC BLOCK DIAGRAMS**  
**NJM2065AM (IC101, 201)**



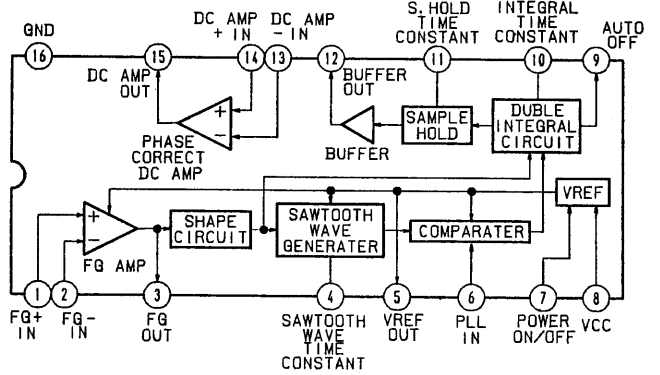
**TA8145FN (IC303)**



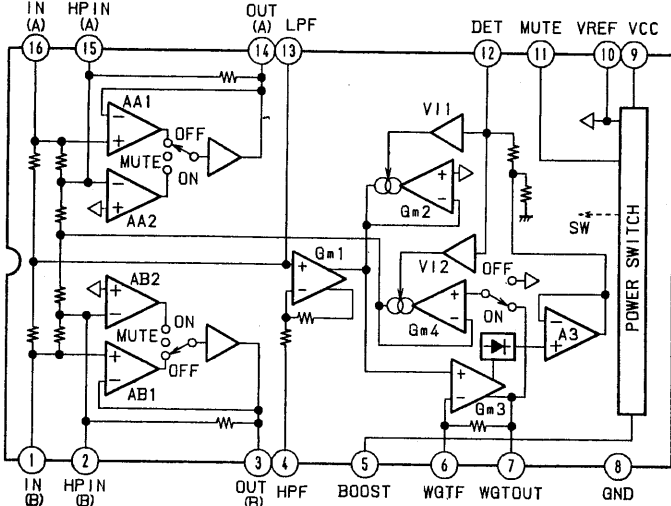
**TA7795FN (IC301)**



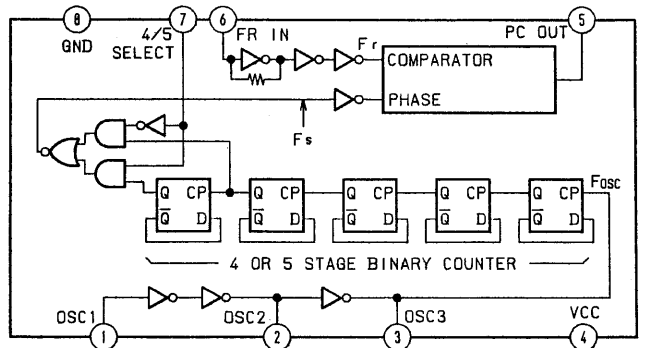
**CXA1423N (IC601)**



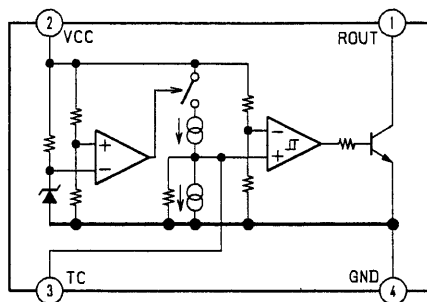
**NJM2106M (IC302)**



**MSM58141MSK (IC602)**



**MM-1046XMR (IC702)**





## SECTION 6 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.

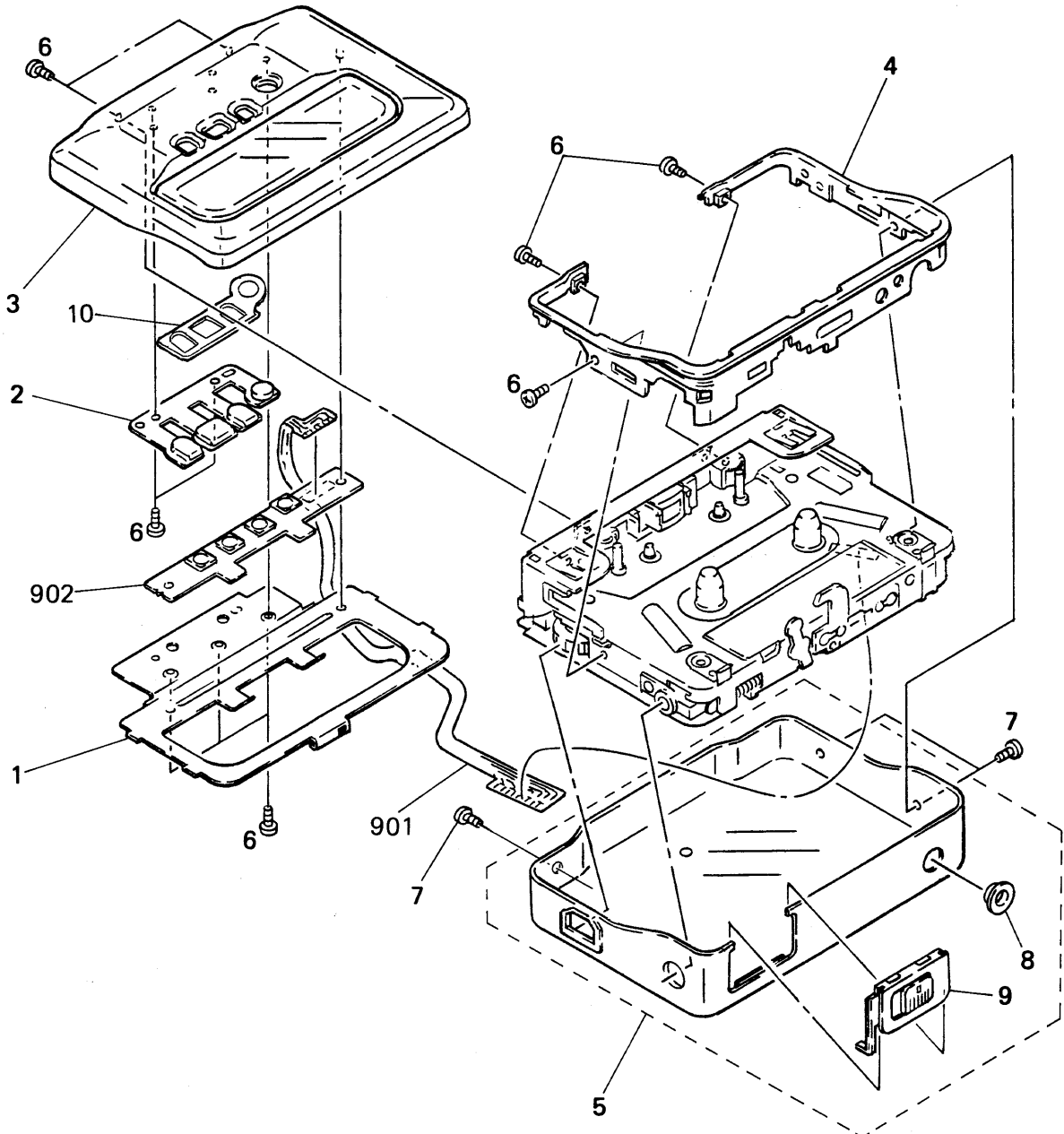
- Color Indication of Appearance Parts  
Example:

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

↑  
Cabinet's Color

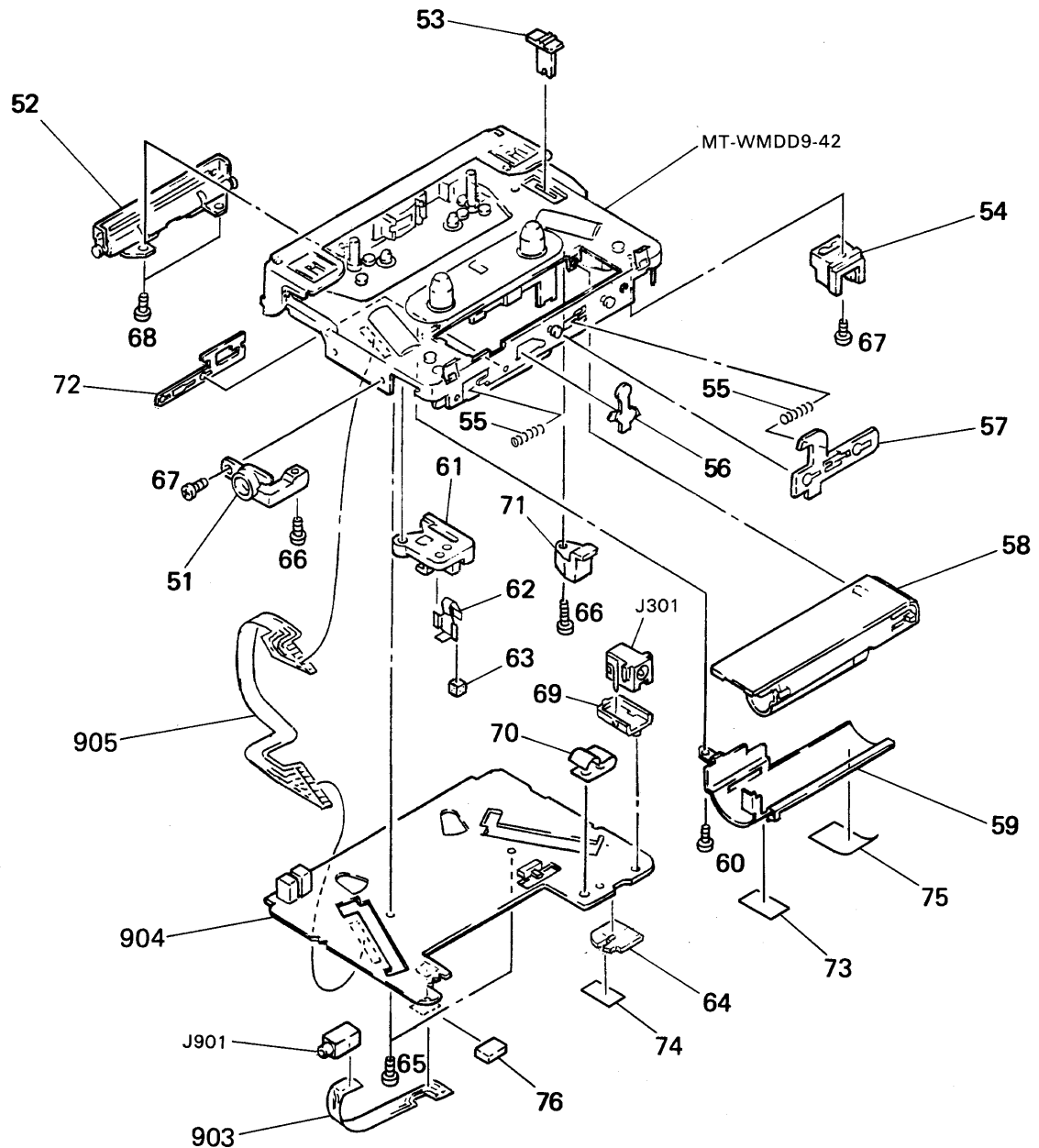
↑  
Parts' Color

### (1) CABINET



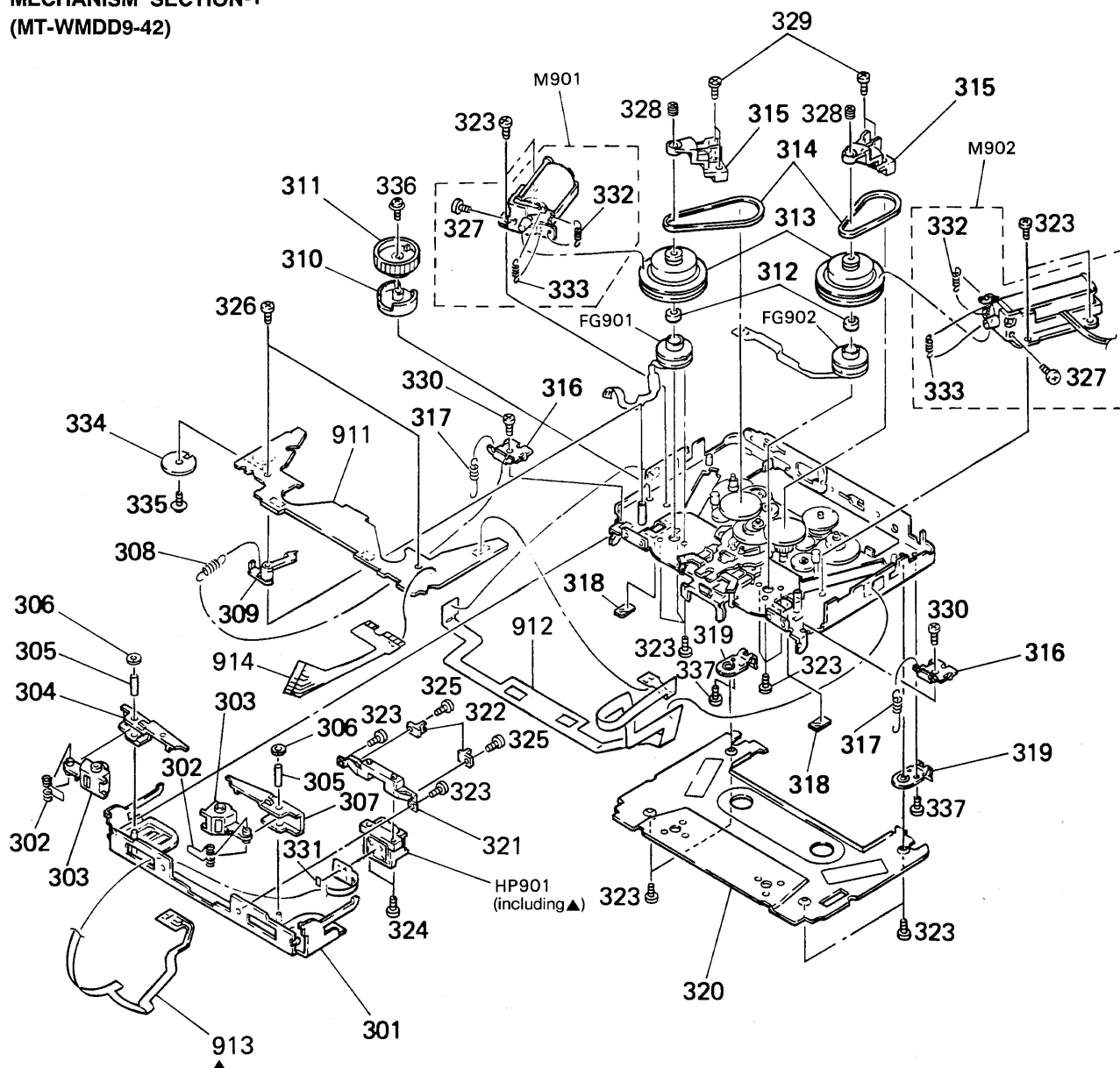
Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
1	3-357-207-01	COVER (CASSETTE)		7	3-704-197-32	SCREW (M1.4X3.0)	
2	X-3324-416-1	BUTTON ASSY		8	3-357-174-01	PLATE (JACK), ORNAMENTAL	
3	X-3324-418-1	LID ASSY, CASSETTE		9	X-3324-421-1	PLATE (OPEN) ASSY, ORNAMENTAL	
4	3-357-212-01	ORNAMENT, REEL		10	3-357-216-01	COVER (BUTTON)	
5	X-3324-427-1	CASE ASSY		901	1-633-189-11	PC BOARD, SWITCH FLEXIBLE	
6	3-704-197-12	SCREW (M1.4X2.0), LOCKING		902	A-3015-836-A	PC BOARD ASSY, SW	

## (2) CHASSIS



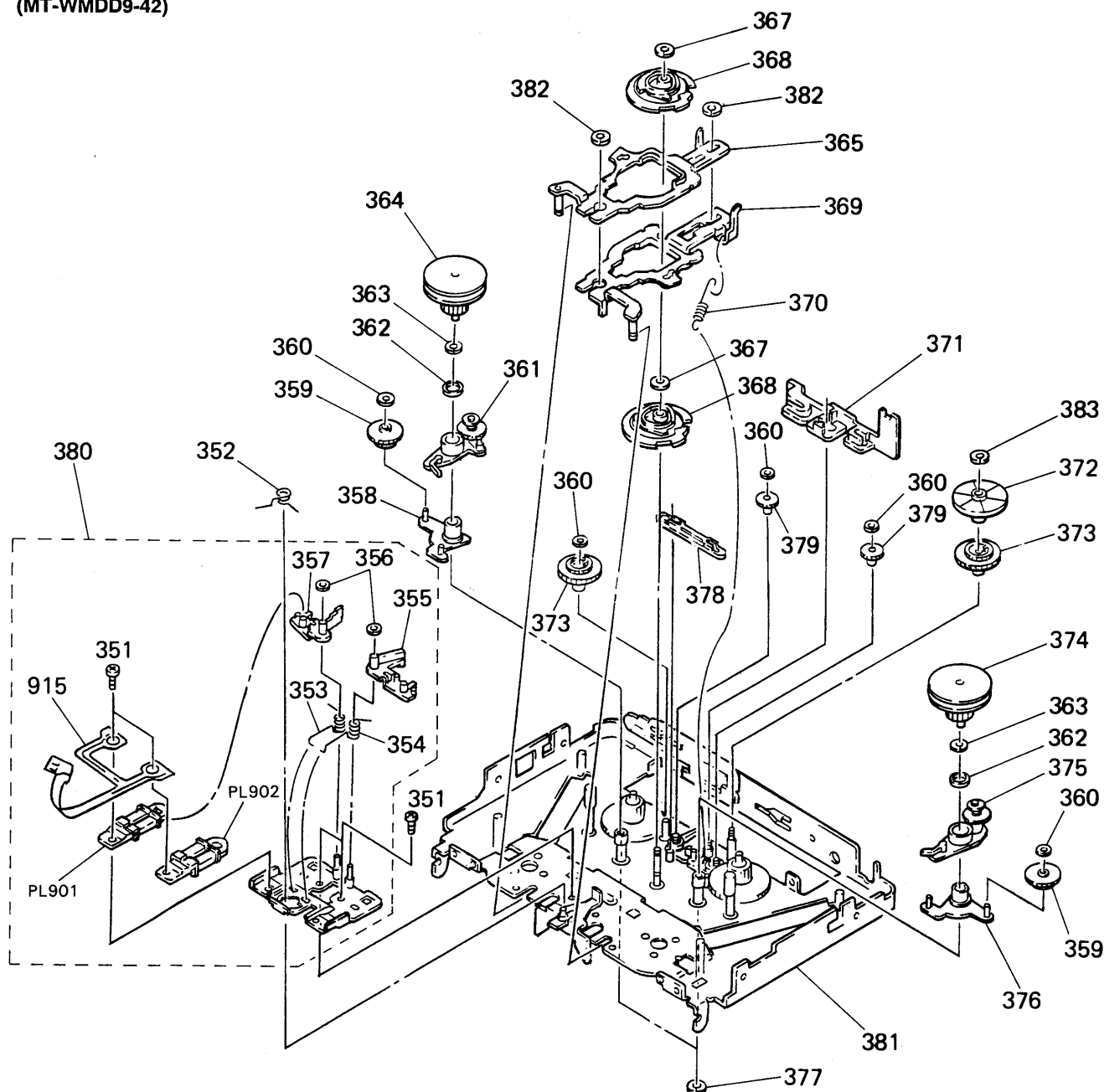
Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
51	3-357-211-01	PLATE (H.P), ORNAMENTAL		67	3-704-197-12	SCREW (M1.4X2.0), LOCKING	
52	X-3324-415-1	HINGE ASSY		68	3-704-245-22	SCREW (P1.4X2.2)	
53	3-357-177-01	KNOB (MODE)		69	3-357-178-01	GUIDE (DC JACK)	
54	3-357-200-01	COVER (DC JACK)		70	3-357-187-01	TERMINAL BOARD (B), BATTERY	
55	3-357-195-01	SPRING COMPRESSION		71	3-357-224-01	COVER (FULCRUM)	
56	X-3324-414-1	LEVER ASSY, MIDWAY		72	3-357-229-01	LEVER (C), LOCK	
57	X-3324-420-1	LEVER (B) ASSY, LOCK		73	9-911-845-XX	CUSHION (A)	
58	X-3324-417-1	CASE ASSY, BATTERY		74	9-911-838-XX	CUSHION	
59	*3-357-208-01	COVER		75	3-831-441-11	CUSHION (B)	
60	3-703-816-06	SCREW (M1.4X1.4), SPECIAL HEAD		76	3-553-567-00	CUSHION	
61	3-357-201-01	HOLDER (TERMINAL BOARD)		903	1-633-393-11	PC BOARD, HEADPHONES FLEXIBLE	
62	3-357-188-01	TERMINAL BOARD (C), BATTERY		904	A-3015-835-A	PC BOARD ASSY, MAIN	
63	*3-357-226-01	CUSHION (BATTERY)		905	1-633-392-11	PC BOARD, (B) FLEXIBLE	
64	3-357-215-01	SPACER (PC BOARD)		J301	1-507-723-00	JACK, EXTENTION POWER (DC IN 1.5V)	
65	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK		J901	1-569-251-11	JACK (HEADPHONES)	
66	3-704-197-82	SCREW (M1.4X5.0), LOCKING					

(3) MECHANISM SECTION-1  
(MT-WMDD9-42)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
301	X-3324-408-1	HOLDER ASSY		324	3-704-245-71	SCREW (P1.4X4.5)	
302	3-357-103-01	SPRING		325	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
303	X-3324-403-1	PINCH LEVER ASSY		326	3-703-816-61	SCREW (M1.4X2.2), SPECIAL HEAD	
304	3-357-149-01	LEVER (N), SPRING		327	3-703-816-51	SCREW (M1.4X3.5), SPECIAL HEAD	
305	3-357-117-01	COLLAR		328	3-357-127-01	SCREW (THRUST)	
306	3-349-859-11	WASHER		329	3-703-816-21	SCREW (M1.4X5.0), SPECIAL HEAD	
307	3-357-142-01	LEVER (R), SPRING		330	7-627-850-37	SCREW,PRECISION +P 1.4X1.4	
308	3-328-438-01	SPRING, TENSION		331	*3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE	
309	3-357-238-01	LEVER (OPEN), SWITCH		332	3-357-134-01	SPRING, TENSION	
310	*3-357-150-01	GUIDE, VOL		333	3-357-135-01	SPRING, TENSION	
311	3-357-151-01	KNOB (VOL)		334	3-357-167-01	HOLDER (VOL)	
312	4-908-282-01	BEARING (FLANGE NO), BALL		335	3-703-816-72	SCREW (M1.4X3.0), SPECIAL HEAD	
313	X-3310-999-1	WHEEL ASSY, CAPSTAN		336	3-357-241-01	SCREW, WASHER HEAD	
314	3-357-133-01	BELT		337	3-343-573-01	SCREW, SPECIAL PRECISION	
315	*3-357-146-01	LEVER, THRUST		911	A-3015-833-A	PC BOARD ASSY, SUB	
316	3-343-587-01	LEVER, SPRING		912	1-633-394-11	PC BOARD, MOTOR FLEXIBLE	
317	3-357-136-01	SPRING (HOLDER), TENSION		913	1-634-250-11	PC BOARD,HEAD FLEXIBLE	
318	*3-357-220-01	SHEET		914	1-633-391-11	PC BOARD, (A) FLEXIBLE	
319	*3-343-588-01	SPRING		FG901	X-3324-406-1	SLEEVE (F) ASSY	
320	3-357-163-01	COVER, REEL		FG902	X-3324-424-1	SLEEVE (FR) ASSY	
321	X-3324-412-1	LEVER ASSY, HEAD		HP901	1-543-689-11	HEAD, MAGNETIC (PLAYBACK)	
322	3-357-104-01	GUIDE, TAPE		M901	A-3133-395-A	MOTOR (FWD) BLOCK ASSY	327, 332, 333
323	3-331-047-01	SCREW (M1.4X1.4),SPECIAL HEAD		M902	A-3133-396-A	MOTOR (REV) BLOCK ASSY	327, 332, 333

(4) MECHANISM SECTION-2  
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Ref.No	Part No.	Description	Remarks
351	3-331-047-01	SCREW (M1.4X1.4),SPECIAL HEAD	
352	3-357-114-01	SPRING	
353	3-357-118-01	SPRING (N)	
354	3-357-119-01	SPRING (R)	
355	3-357-145-01	LEVER (R), TRIGGER	
356	3-338-645-31	WASHER 0.8X2.5	
357	3-357-144-01	LEVER (N), TRIGGER	
358	X-3324-405-1	LEVER (ND) ASSY, P	
359	3-343-592-01	GEAR (NR)	
360	3-349-859-11	WASHER	
361	X-3310-994-1	LEVER ASSY, FF	
362	3-349-850-01	WASHER	
363	3-321-394-41	WASHER, COTTER POLYETHYLENE 2.5X1.2	
364	X-3310-996-1	PULLEY (N) ASSY	
365	X-3324-401-1	LEVER (N) ASSY, P	
367	3-341-752-11	WASHER, POLYETHYLENE	
368	3-357-152-01	GEAR (CAM)	

Ref.No	Part No.	Description	Remarks
369	X-3324-402-1	LEVER (R) ASSY, P	
370	3-343-570-01	SPRING (SW LEVER), TENSION	
371	3-357-156-01	LEVER, SWITCH	
372	X-3310-997-1	PULLEY (REFLECTOR) ASSY	
373	3-343-584-01	GEAR (C)	
374	X-3310-995-1	PULLEY (R) ASSY	
375	X-3310-993-1	LEVER ASSY, REW	
376	X-3324-404-1	LEVER (RD) ASSY, P	
377	3-331-007-21	WASHER 2.3X1.0	
378	3-357-160-01	STOPPER (A)	
379	3-357-111-01	GEAR (B)	
380	1-454-511-11	SOLENOID, PLUNGER (ASSY)	351, 353-357
381	X-3324-428-1	CHASSIS ASSY	
382	3-331-036-11	WASHER	
915	1-633-659-11	PC BOARD, PLUNGER FLEXIBLE	
PL901	1-454-490-11	SOLENOID, PLUNGER (FWD)	
PL902	1-454-490-11	SOLENOID, PLUNGER (REV)	

## SECTION 7

### 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:  $\mu$ F, PF:  $\mu$ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

**COILS**MMH: mH, UH:  $\mu$ H**SEMICONDUCTORS**In each case, U:  $\mu$ , for example:
 UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
 UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

Ref.No	Part No.	Description				Ref.No	Part No.	Description			
901	1-633-189-11	PC BOARD, SWITCH FLEXIBLE				C220	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
902	A-3015-836-A	PC BOARD ASSY, SW				C221	1-135-091-00	TANTAL CHIP	1MF	20%	16V
903	1-633-393-11	PC BOARD, HEADPHONES FLEXIBLE				C222	1-135-091-00	TANTAL CHIP	1MF	20%	16V
904	A-3015-835-A	PC BOARD ASSY, MAIN				C223	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
905	1-633-392-11	PC BOARD, (B) FLEXIBLE				C224	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
911	A-3015-833-A	PC BOARD ASSY, SUB				C301	1-135-202-21	TANTAL CHIP	22MF	20%	4V
912	1-633-394-11	PC BOARD, MOTOR FLEXIBLE				C302	1-135-202-21	TANTAL CHIP	22MF	20%	4V
913	1-634-250-11	PC BOARD, HEAD FLEXIBLE				C303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
914	1-633-391-11	PC BOARD, (A) FLEXIBLE				C304	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
915	1-633-659-11	PC BOARD, PLUNGER FLEXIBLE				C305	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C101	1-163-133-00	CERAMIC CHIP	470PF	10%	50V	C306	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V
C102	1-163-133-00	CERAMIC CHIP	470PF	10%	50V	C307	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C103	1-135-202-21	TANTAL CHIP	22MF	20%	4V	C308	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C104	1-164-479-11	CERAMIC CHIP	0.0056MF	10%	50V	C309	1-164-481-11	CERAMIC CHIP	0.022MF	10%	16V
C105	1-164-482-11	CERAMIC CHIP	0.033MF	10%	16V	C310	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C106	1-135-091-00	TANTAL CHIP	1MF	10%	16V	C311	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C107	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V	C312	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C108	1-135-149-21	TANTAL CHIP	2.2MF	10%	6.3V	C313	1-135-158-21	TANTAL CHIP	15MF	20%	4V
C109	1-135-202-21	TANTAL CHIP	22MF	20%	4V	C314	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C110	1-135-191-21	TANTAL CHIP	0.22MF	10%	20V	C315	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C111	1-135-072-21	TANTAL CHIP	0.22MF	10%	35V	C316	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C112	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V	C317	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C113	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V	C318	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C114	1-164-480-11	CERAMIC CHIP	0.01MF	5%	50V	C401	1-135-157-21	TANTAL CHIP	22MF	20%	4V
C115	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V	C601	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C116	1-163-121-00	CERAMIC CHIP	150PF	10%	50V	C602	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C117	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V	C603	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C118	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V	C604	1-136-153-00	FILM	0.01MF	5%	50V
C119	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C605	1-135-201-11	TANTAL CHIP	10MF	20%	6.3V
C120	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V	C606	1-136-175-00	FILM	0.068MF	5%	50V
C121	1-135-091-00	TANTAL CHIP	1MF	20%	16V	C607	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C122	1-135-091-00	TANTAL CHIP	1MF	20%	16V	C608	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C123	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V	C609	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C124	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C610	1-135-091-00	TANTAL CHIP	1MF	10%	16V
C201	1-163-133-00	CERAMIC CHIP	470PF	10%	50V	C611	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C202	1-163-133-00	CERAMIC CHIP	470PF	10%	50V	C612	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C203	1-135-202-21	TANTAL CHIP	22MF	20%	4V	C613	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C204	1-164-479-11	CERAMIC CHIP	0.0056MF	10%	50V	C614	1-162-943-11	CERAMIC CHIP	15PF	5%	50V
C205	1-164-482-11	CERAMIC CHIP	0.033MF	10%	16V	C615	1-162-943-11	CERAMIC CHIP	15PF	5%	50V
C206	1-135-208-11	TANTAL CHIP	1MF	10%	10V	C616	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C207	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V	C618	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C208	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V	C701	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C209	1-135-202-21	TANTAL CHIP	22MF	20%	4V	C702	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C210	1-135-191-21	TANTAL CHIP	0.22MF	10%	20V	C703	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C211	1-135-072-21	TANTAL CHIP	0.22MF	10%	35V	C704	1-135-151-21	TANTAL CHIP	4.7MF	20%	4V
C212	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V	C801	1-126-991-11	ELECT	470MF	20%	2V
C213	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V	C802	1-126-991-11	ELECT	470MF	20%	2V
C214	1-164-480-11	CERAMIC CHIP	0.01MF	5%	50V	C803	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C215	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V	C804	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C216	1-163-121-00	CERAMIC CHIP	150PF	10%	50V	C805	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C217	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V	C806	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C218	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V	C807	1-135-157-21	TANTAL CHIP	10MF	20%	6.3V
C219	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C808	1-135-157-21	TANTAL CHIP	10MF	20%	6.3V
						D301	8-719-420-51	DIODE MA729			



Ref.No	Part No.	Description
D401	8-719-981-67	DIODE CL-70SR-CD
D402	8-719-981-67	DIODE CL-70SR-CD
D601	8-719-404-35	DIODE MA141WK
D701	8-719-404-32	DIODE MA141WA
D702	8-719-420-51	DIODE MA729
D703	8-719-404-52	DIODE MA143
D704	8-719-105-58	DIODE RD3.9M-B2
D801	8-719-420-51	DIODE MA729
D802	8-719-420-51	DIODE MA729
D803	8-719-975-06	DIODE CL-70G-CD
FG901	X-3324-406-1	SLEEVE (F) ASSY
FG902	X-3324-424-1	SLEEVE (FR) ASSY
FL101	1-236-710-11	ENCAPUSLATED COMPONENT (FILTER, SP-SK)
FL201	1-236-710-11	ENCAPUSLATED COMPONENT (FILTER, SP-SK)
HP901	1-543-689-11	HEAD, MAGNETIC (PLAYBACK)
IC101	8-759-710-49	IC NJM2065AM
IC201	8-759-710-49	IC NJM2065AM
IC301	8-759-230-91	IC TA7795FN
IC302	8-759-711-24	IC NJM2106M
IC303	8-759-231-13	IC TA8145FN
IC601	8-752-039-14	IC CXA1423N
IC602	8-759-996-71	IC MSM58141MSK
IC701	8-759-239-09	IC TB2001FN
IC702	8-759-500-18	IC MM-1046XMR
J301	1-507-723-00	JACK, EXTENTION POWER (DC IN 1.5V)
J901	1-569-251-11	JACK (HEADPHONES)
JR1	1-216-864-11	METAL GLAZE 0 5% 1/16W
L801	1-421-665-11	COILP 20UH
L802	1-410-213-51	INDUCTOR CHIP 56UH
M901	A-3133-395-A	MOTOR (FWD) BLOCK ASSY
M902	A-3133-396-A	MOTOR (REV) BLOCK ASSY
PH701	8-759-710-35	DIODE, PHOTO NJL5161K-B
PL901	1-454-490-11	SOLENOID, PLUNGER (FWD)
PL902	1-454-490-11	SOLENOID, PLUNGER (REV)
Q301	8-729-403-17	TRANSISTOR XN1215
Q302	8-729-230-74	TRANSISTOR 2SA1362(YG)EL
Q303	8-729-420-53	TRANSISTOR UN5115
Q304	8-729-162-44	TRANSISTOR 2SB624-BV4
Q401	8-729-403-42	TRANSISTOR XN1401
Q402	8-729-403-17	TRANSISTOR XN1215
Q403	8-729-420-53	TRANSISTOR UN5115
Q601	8-729-420-50	TRANSISTOR UN5215
Q602	8-729-159-64	TRANSISTOR 2SD596
Q603	8-729-159-64	TRANSISTOR 2SD596
Q604	8-729-403-17	TRANSISTOR XN1215
Q605	8-729-104-26	TRANSISTOR 2SB804-AW
Q606	8-729-104-26	TRANSISTOR 2SB804-AW
Q608	8-729-420-50	TRANSISTOR UN5215
Q609	8-729-162-44	TRANSISTOR 2SB624-BV4
Q610	8-729-421-15	TRANSISTOR 2SD1119-Q
Q611	8-729-159-64	TRANSISTOR 2SD596
Q612	8-729-159-64	TRANSISTOR 2SD596
Q701	8-729-402-16	TRANSISTOR XN4608
Q702	8-729-402-16	TRANSISTOR XN4608
Q703	8-729-403-45	TRANSISTOR XN1115
Q704	8-729-403-45	TRANSISTOR XN1115
Q705	8-729-420-50	TRANSISTOR UN5215
Q706	8-729-420-50	TRANSISTOR UN5215
Q707	8-729-230-74	TRANSISTOR 2SA1362(YG)EL
Q708	8-729-230-74	TRANSISTOR 2SA1362(YG)EL

Ref.No	Part No.	Description
Q709	8-729-420-53	TRANSISTOR UN5115
Q710	8-729-420-53	TRANSISTOR UN5115
Q711	8-729-420-53	TRANSISTOR UN5115
Q712	8-729-403-45	TRANSISTOR XN1115
Q713	8-729-421-23	TRANSISTOR XN1216
Q714	8-729-420-53	TRANSISTOR UN5115
Q715	8-729-159-64	TRANSISTOR 2SD596
Q716	8-729-420-53	TRANSISTOR UN5115
Q717	8-729-162-44	TRANSISTOR 2SB624-BV4
Q718	8-729-420-50	TRANSISTOR UN5215
Q801	8-729-162-44	TRANSISTOR 2SB624-BV4
Q802	8-729-117-31	TRANSISTOR 2SC4177-L5
Q803	8-729-400-56	TRANSISTOR 2SD1328-T
Q804	8-729-420-53	TRANSISTOR UN5115
Q805	8-729-162-44	TRANSISTOR 2SB624-BV4
R101	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R102	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R103	1-216-693-11	METAL CHIP 56K 0.50% 1/10W
R104	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R105	1-216-115-00	METAL GLAZE 560K 5% 1/10W
R106	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W
R107	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R108	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R109	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R110	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R111	1-218-273-11	METAL GLAZE 510K 5% 1/16W
R112	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
R113	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R114	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R115	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
R116	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R117	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R118	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R119	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R120	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
R121	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R122	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R201	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R202	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R203	1-216-693-11	METAL CHIP 56K 0.50% 1/10W
R204	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R205	1-216-115-00	METAL GLAZE 560K 5% 1/10W
R206	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W
R207	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R208	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R209	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R210	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R211	1-218-273-11	METAL GLAZE 510K 5% 1/16W
R212	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
R213	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R214	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R215	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
R216	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R217	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R218	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R219	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R220	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
R221	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R222	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R301	1-216-809-11	METAL GLAZE 100 5% 1/16W
R302	1-216-846-11	METAL GLAZE 120K 5% 1/16W
R304	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R305	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R306	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W

Ref.No	Part No.	Description			
R307	1-216-791-11	METAL GLAZE	3.3	5%	1/16W
R308	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R309	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R310	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R311	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R401	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R402	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R403	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R404	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R405	1-216-819-11	METAL GLAZE	680	5%	1/16W
R406	1-216-819-11	METAL GLAZE	680	5%	1/16W
R407	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R408	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R601	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R602	1-216-993-11	METAL GLAZE	2.4K	5%	1/16W
R603	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R604	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R605	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R606	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R607	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R608	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R609	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R610	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R611	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R612	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R613	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R614	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R615	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R616	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R617	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R618	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R619	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R620	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R621	1-216-809-11	METAL GLAZE	100	5%	1/16W
R622	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R623	1-216-817-11	METAL GLAZE	470	5%	1/16W
R624	1-216-817-11	METAL GLAZE	470	5%	1/16W
R625	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R626	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R627	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R628	1-216-809-11	METAL GLAZE	100	5%	1/16W
R701	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R702	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R703	1-216-814-11	METAL GLAZE	270	5%	1/16W
R704	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R705	1-216-800-11	METAL GLAZE	18	5%	1/16W
R706	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R707	1-216-800-11	METAL GLAZE	18	5%	1/16W
R708	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R709	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R710	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R711	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R712	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R713	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R714	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R715	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R716	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R717	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R718	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R719	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R720	1-216-833-11	METAL GLAZE	10K	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	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R724	1-216-845-11	METAL GLAZE	100K	5%	1/16W

Ref.No	Part No.	Description			
R725	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R726	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R727	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R728	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R729	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R730	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R731	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R732	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R801	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R802	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R803	1-216-814-11	METAL GLAZE	270	5%	1/16W
R804	1-216-800-11	METAL GLAZE	18	5%	1/16W
R805	1-216-809-11	METAL GLAZE	100	5%	1/16W
R806	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R807	1-216-833-11	METAL GLAZE	10K	5%	1/16W
RV101	1-238-201-11	RES, ADJ, METAL GLAZE 1K			
RV201	1-238-201-11	RES, ADJ, METAL GLAZE 1K			
RV501	1-238-879-11	RES, VAR, CARBON 10K/10K (VOL)			
RV601	1-237-005-11	RES, ADJ, METAL GLAZE 22K			
S401	1-571-533-31	SWITCH, KEY BOARD (STOP)			
S402	1-571-533-31	SWITCH, KEY BOARD (FF)			
S403	1-571-533-31	SWITCH, KEY BOARD (REW)			
S404	1-571-533-31	SWITCH, KEY BOARD (PLAY/DIR)			
S501	1-571-506-41	SWITCH, SLIDE (DOLBY NR)			
S502	1-571-506-41	SWITCH, SLIDE (DBB)			
S503	1-571-275-31	SWITCH, SLIDE (TAPE)			
S504	1-571-275-11	SWITCH, SLIDE (MODE)			
S505	1-570-395-11	SWITCH, LEAF (OPEN)			
S701	1-571-584-31	SWITCH, SLIDE (DIRECTION)			
S702	1-570-395-11	SWITCH, LEAF (FWD HEAD)			
S703	1-570-395-11	SWITCH, LEAF (REV HEAD)			
S704	1-570-395-11	SWITCH, LEAF (HOLD)			
T801	1-449-885-11	TRANSFORMER, DC-DC CONVERTER			
X601	1-577-709-11	VIBRATOR, CRYSTAL 24.957MHz			

## ACCESSORIES &amp; PACKING MATERIALS

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1-526-565-00	(E)....AC PLUG ADAPTOR
1-528-231-11	BATTERY,NICKEL CADMIUM(NC-6WM)
1-528-234-11	(E)....BATTERY,CHARGER (BC-7L)
1-528-250-11	(Canadian)....BATTERY,CHARGER (BC-7S)
1-528-251-11	(AEP)....BATTERY CHARGER (BC-7S)
1-528-252-11	(UK)....BATTERY,CHARGER (BC-7S)
1-528-321-11	(US)....BATTERY,CHARGER (BC-7AU)
*3-343-562-01	CUSHION
*3-343-564-01	INDIVIDUAL CARTON
3-357-196-01	CASE, CARRYING
3-751-279-11	(Canadian, AEP, UK, E)....
	MANUAL, INSTRUCTION
3-751-279-21	(US)....MANUAL, INSTRUCTION
3-751-279-41	(AEP)....MANUAL, INSTRUCTION
8-952-452-90	HEADPHONE MDR-E575/XG SET

Refer to MDR-E575 Service Manual  
issued previously for information of  
headphones supplied with this set.

# WM-DD9

## SONY SERVICE MANUAL

US Model  
Canadian Model  
AEP Model  
UK Model  
E Model

### CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
20				3-349-827-21	WASHER
	