WM-BF43

SERVICE MANUAL

AEP Model

SPECIFICATIONS

Model Name Using Similar Mechanism	WM-F69
Tape Transport Mechanism Type	MF-WMF39-80

Radio section

Frequency range
- In West Germany
  - FM: 87.6-107 MHz
  - AM: 531-1,602 kHz
- In Italy
  - FM: 87.5-108 MHz
  - AM: 526.5-1,606.5 kHz
- in the other countries

Tape playback and general

Frequency response (DOLBY NR OFF)
- 40—15,000 Hz

Power output
- 10 mW + 10 mW load impedance
- 32 ohms at DC operation

Power requirements
- 3V DC
  - Two R6 (size AA) batteries
  - Sony BP-700 rechargeable battery
- DC IN 3V jack accepts:
  - Sony AC-D2L AC power adaptor
  - available in the United Kingdom for use on 240V, AC, 50 Hz
  - available in the other countries for use on 220V AC, 50 Hz

Battery life
- Approx. 7 hours for playback and approx. 30 hours for FM reception using Sony alkaline batteries AM3 (N).

Dimensions
- Approx. 93.1 × 133.3 × 38.1 mm (w/h/d) incl. projecting parts and controls

Weight
- Approx. 265 g incl. batteries

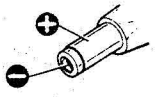
Accessories supplied
- Stereo headphones (open-air type, 1)
- Beltclip (1)

Optional accsssories

AC power adaptor AC-D2L
Battery case EBP-500B
Car battery cord DCC-70
Battery charger BC-700
Rechargeable battery BP-700

Your dealer may not handle some of above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

Note: If an AC power adaptor or a car battery cord not manufactured by Sony is used, a fuse must be installed in the battery cord and the polarity of the plug must be as illustrated.



RADIO CASSETTE PLAYER

SONY®

SERVICING NOTE

Flexible Circuit Board Repairing

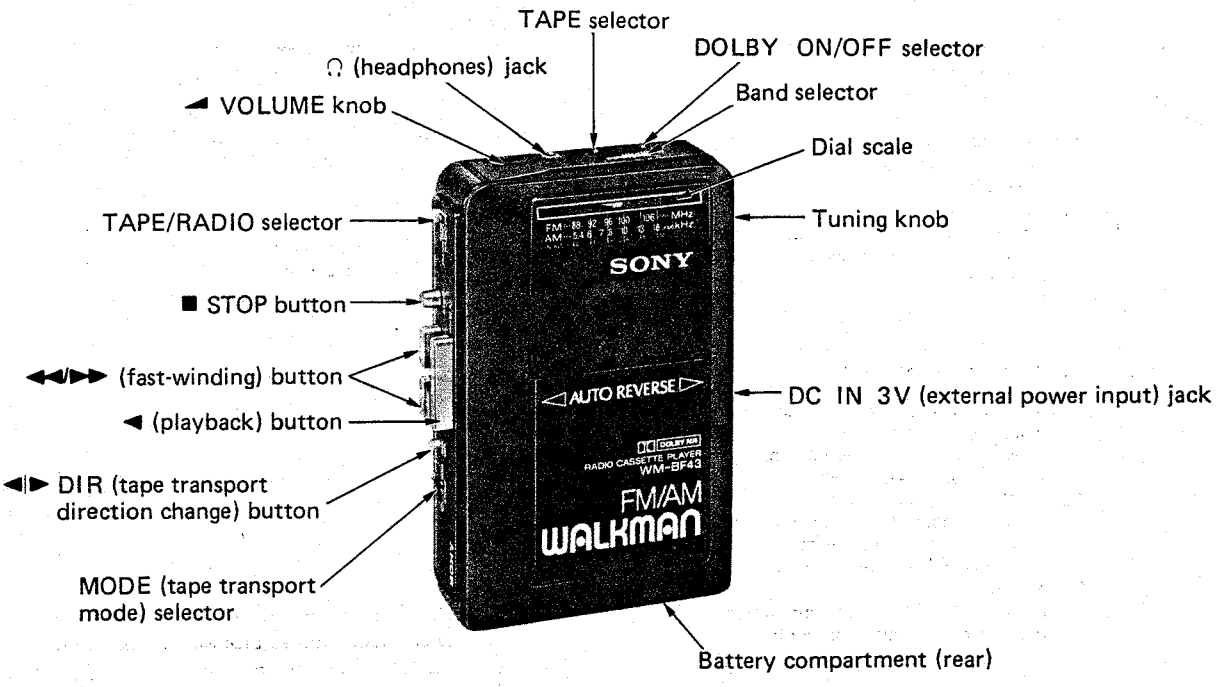
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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

FUNCTION OF CONTROLS

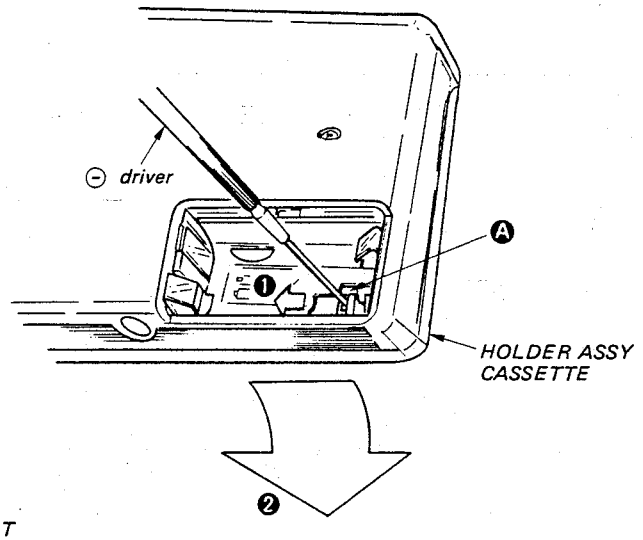


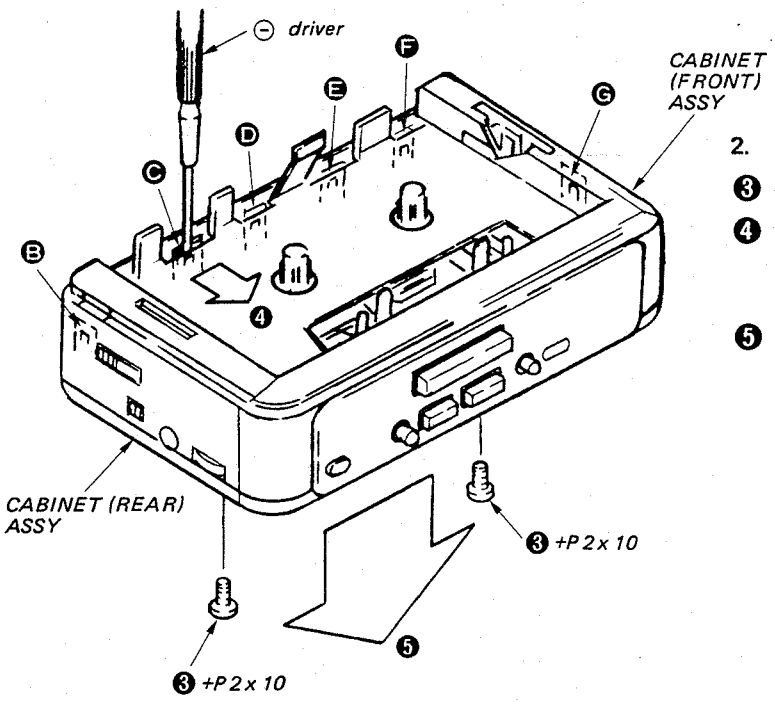
SECTION 2
DISASSEMBLY

1. CASSETTE HOLDER ASSY REMOVAL

❶ Insert a precision driver (–) into the portion Ⓐ inside the battery chamber.

❷ Move the latch in the direction of the arrow ❶ to release it, then pull CASSETTE HOLDER ASSY in the direction of the arrow.





2. CABINET (REAR) ASSY REMOVAL

❸ Remove +P2 x 10 (2 pcs.)

❹ Move claws Ⓑ to Ⓖ with a driver (–) inward of the body to release them.
(at Ⓒ portion move the claw like the arrow ❹)

❺ Remove CABINET (REAR) ASSY in the direction of the arrow.

3. AU AND TU BOARDS, MECHA DECK REMOVAL

❻ (AU BOARD) Move the connector housing W301 in the direction of the arrow.

❼ Pull out the flexible board from PB HEAD.

❽ Release the claws.

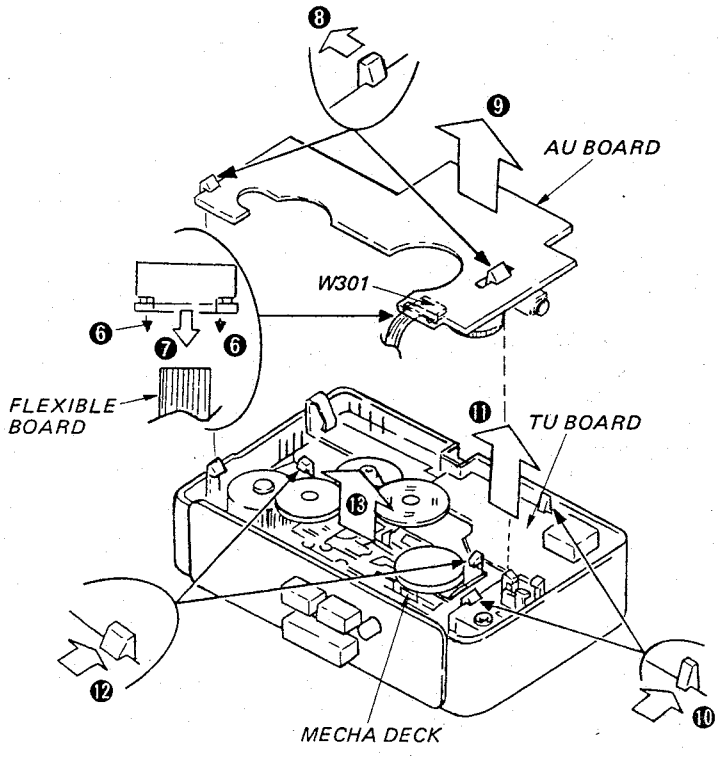
❾ Remove AU BOARD.

❿ (TU BOARD) Release the claws.

⓫ Lift TU BOARD up.

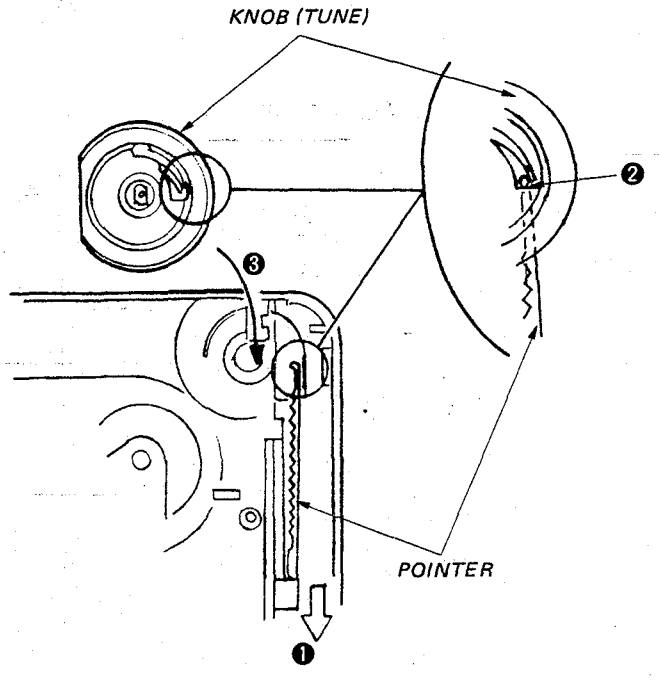
⓬ (MECHA DECK) Release the claws.

⓭ Lift MECHA DECK up.



4. DIAL POINTER Setting

- Move the pointer fully in the direction of the arrow ❶ (f min).
- Set the end of the pointer at the portion ❷ of KNOB (TUNE).
- Install the knob in the portion ❸ .
- Confirm the pointer to move smoothly with turning KNOB (TUNE) from f min to f max.



SECTION 3
MECHANICAL ADJUSTMENTS

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 rated power supply voltage (2.5V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	22 – 55 g·cm (0.30 – 0.76 oz·inch)
FWD Back Tension		less than 3 g·cm (less than 0.04 oz·inch)
REV	CQ-102RB	22 – 55 g·cm (0.30 – 0.76 oz·inch)
REV Back Tension		less than 3 g·cm (less than 0.04 oz·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 55 g·cm (more than 0.76 oz·inch)
REV	CQ-403R	

SECTION 4
ELECTRICAL ADJUSTMENTS

CASSETTE SECTION

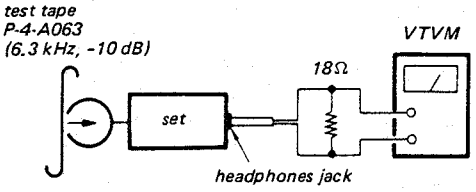
Playback Head Azimuth Check

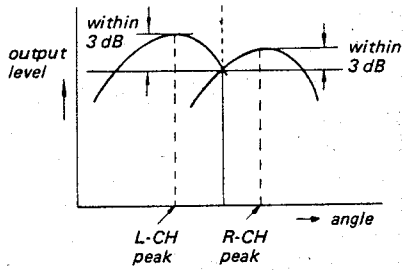
- **Perform this check both in FWD and REV mode.**

Note: This set is not featured the head azimuth adjustment.
When replacing the head, check the both L-ch and R-ch output levels and also those phases.

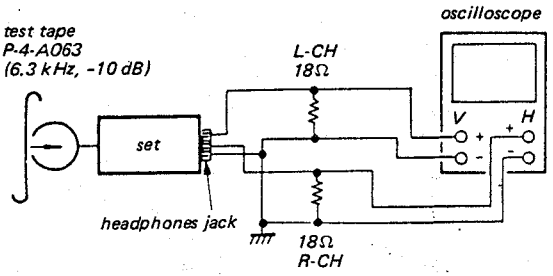
Procedure:

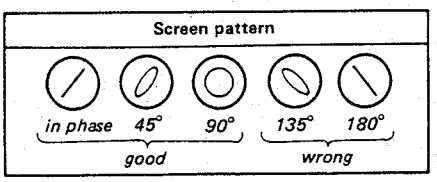
1. Level Check
   Mode: playback





2. Phase Check
   Mode: playback

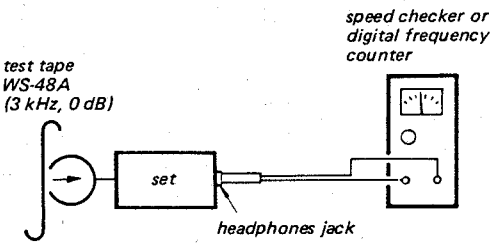




Tape Speed Adjustment

Procedure:

Mode: playback

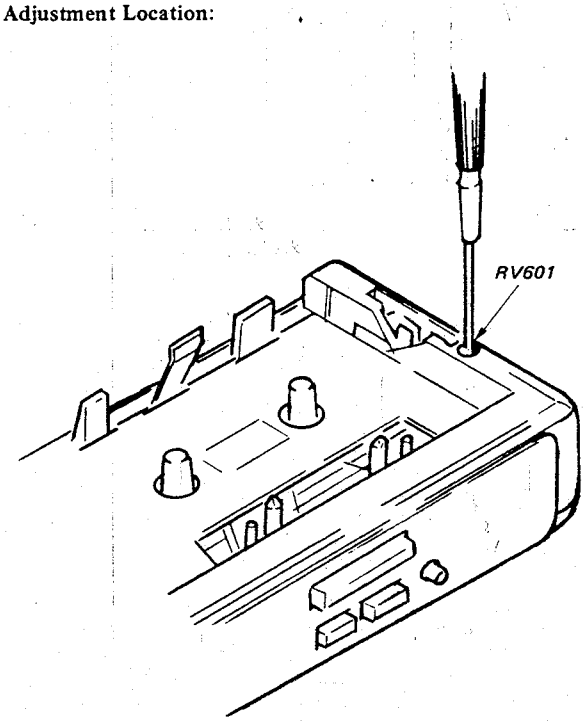


Specification:

speed checker	digital frequency counter
±1%	2,970 – 3,030 Hz

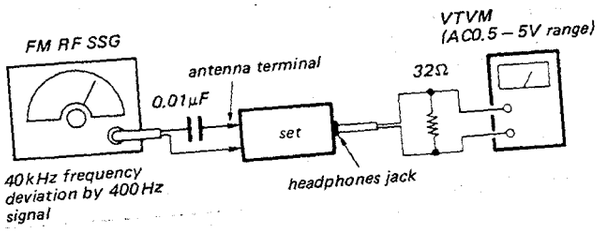
Frequency difference between the beginning and the end of the tape should be within ±2.5% (±75 Hz).

Adjustment Location:



RADIO SECTION

FM SECTION



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

1 Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	87.35MHz	L2	maximum
f maximum	107.8MHz (108.25MHz)	CT2	

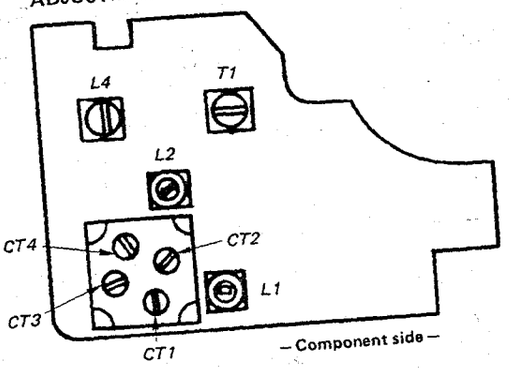
( ): IT

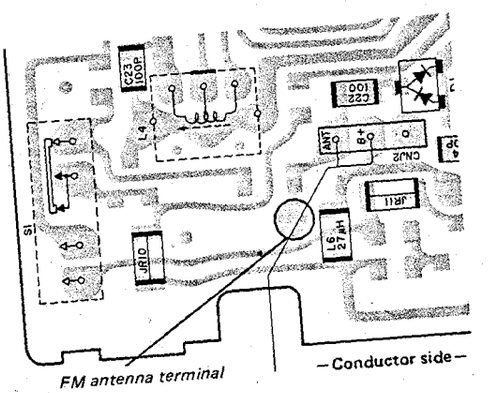
1 Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
87.35MHz	L1	maximum
107.8MHz (108.25MHz)	CT1	

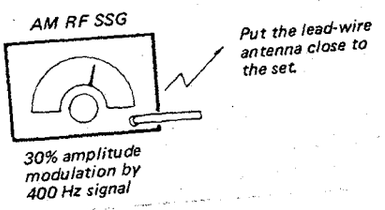
( ): IT

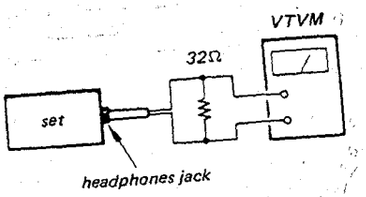
ADJUSTMNET LOCATION: TU BOARD





AM SECTION





• Rpeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	516.5kHz	L4	maximum
f maximum	1,631.5kHz	CT4	

AM Tracking Adjustment

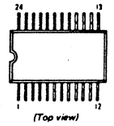
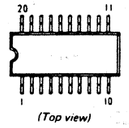
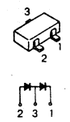
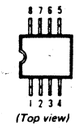
SG and set frequency	Adjustment part	Reading on VTVM
600kHz	L3	maximum
1,400kHz	CT3	

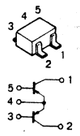
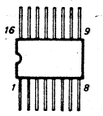
1 IF Alignment

SG Frequency	Adjustment part	Reading on VTVM
450kHz	T1	maximum

SECTION 5
DIAGRAMS

5-1. SEMICONDUCTOR LEAD LAYOUTS

TA8122AF	LA4580M	1SS123	AN6612S
 (Top view)	 (Top view)		 (Top view)

XN1215	NJM2063AM	2SB1132Q
		

● Semiconductor Location

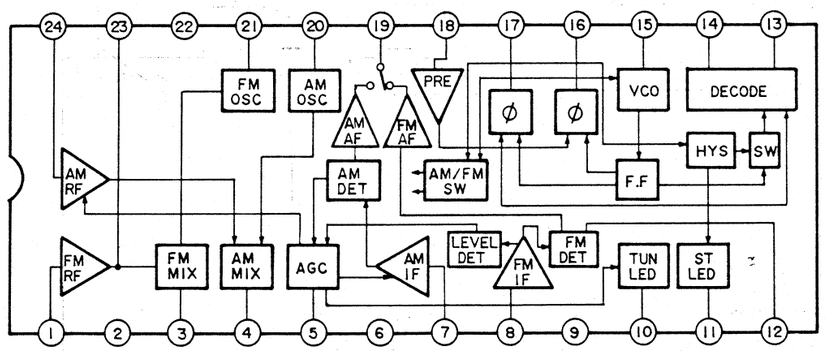
Ref. No.	Location
D1	D-3
IC1	F-4
IC301	E-18
IC302	E-12
IC601	D-9
Q1	G-5
Q601	D-9

Note:

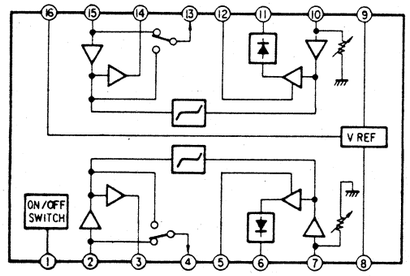
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.
- ▭ : Chip components extracted from the rear side.

IC BLOCK DIAGRAMS

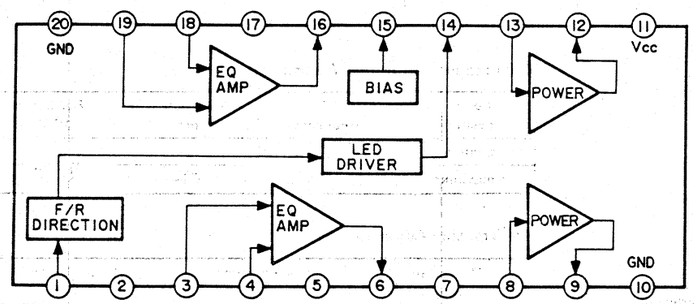
TA8122AF



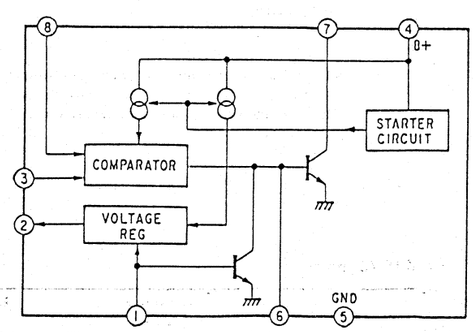
NJM-2063AM



LA4580M

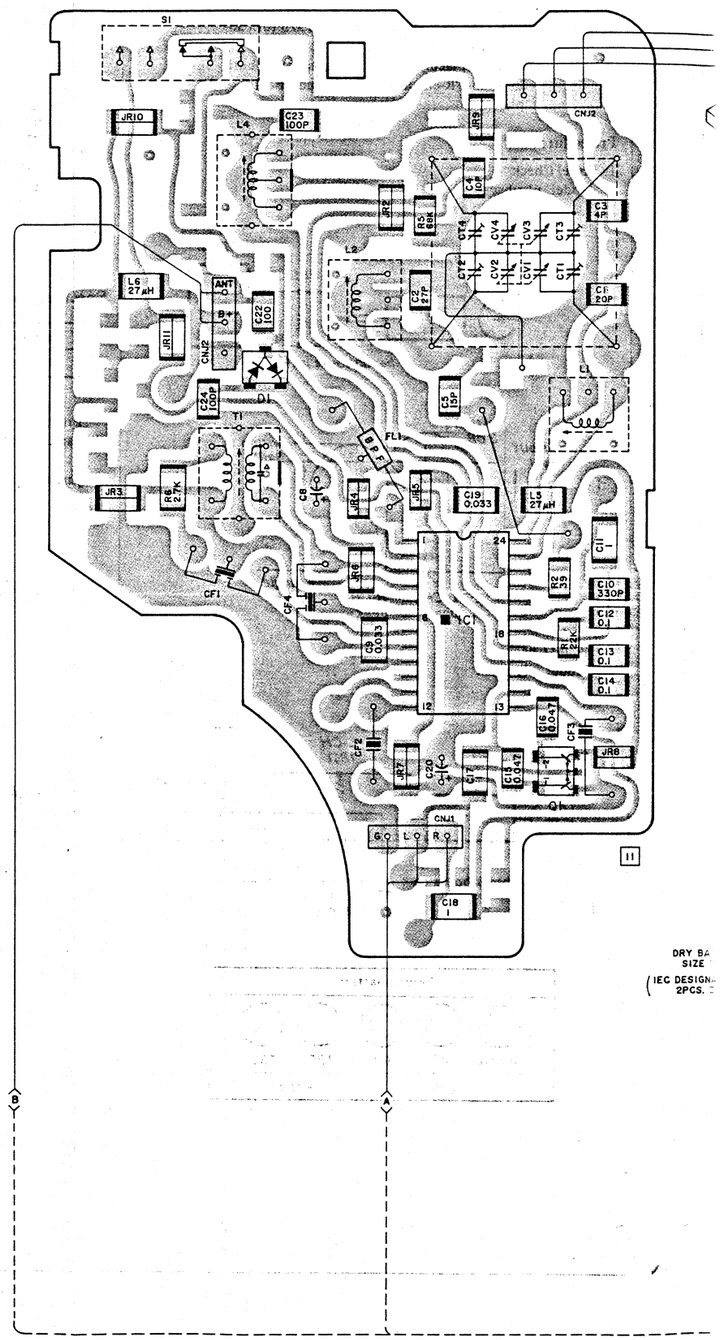


AN6612S

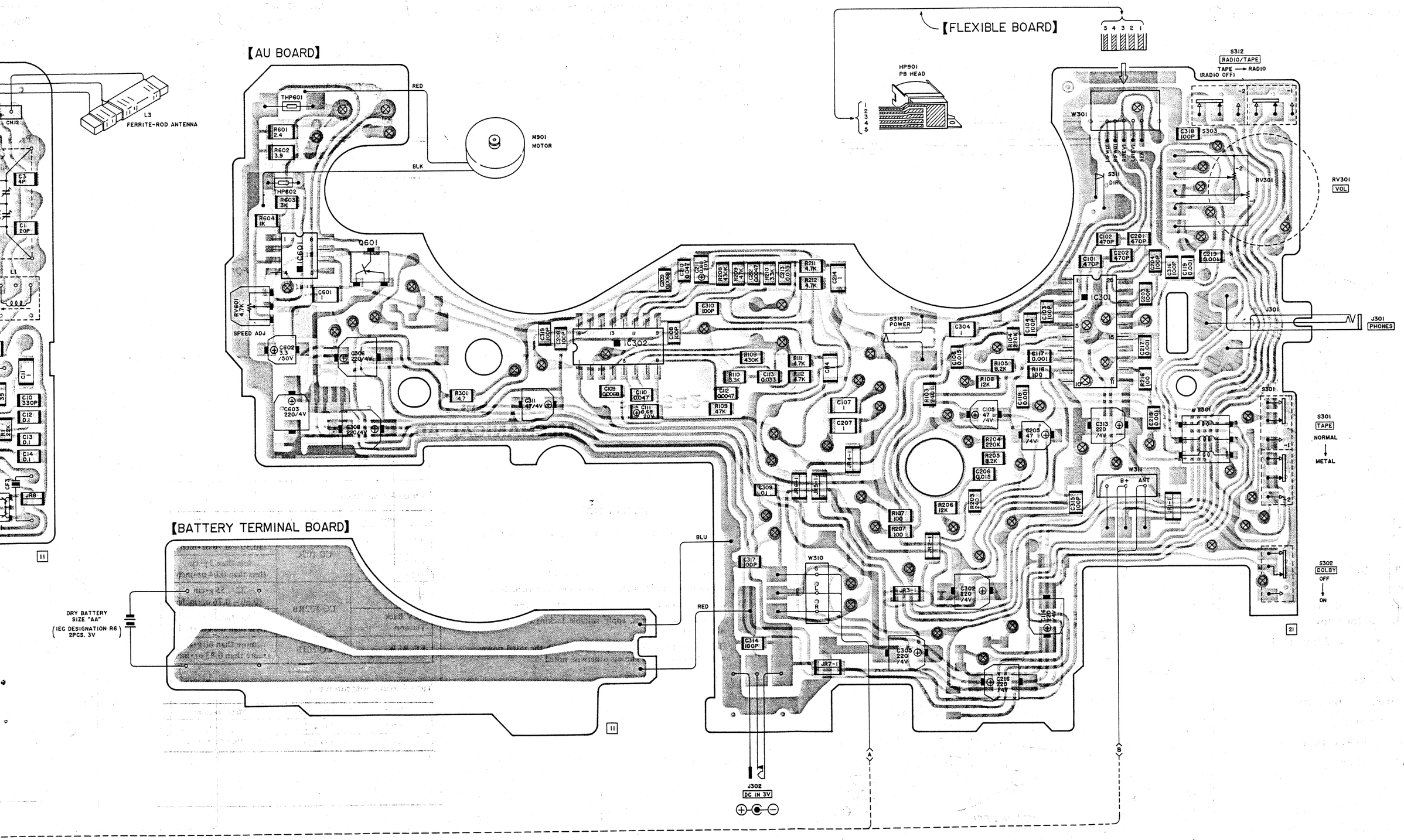


5-2. PRINTED WIRING BOARDS

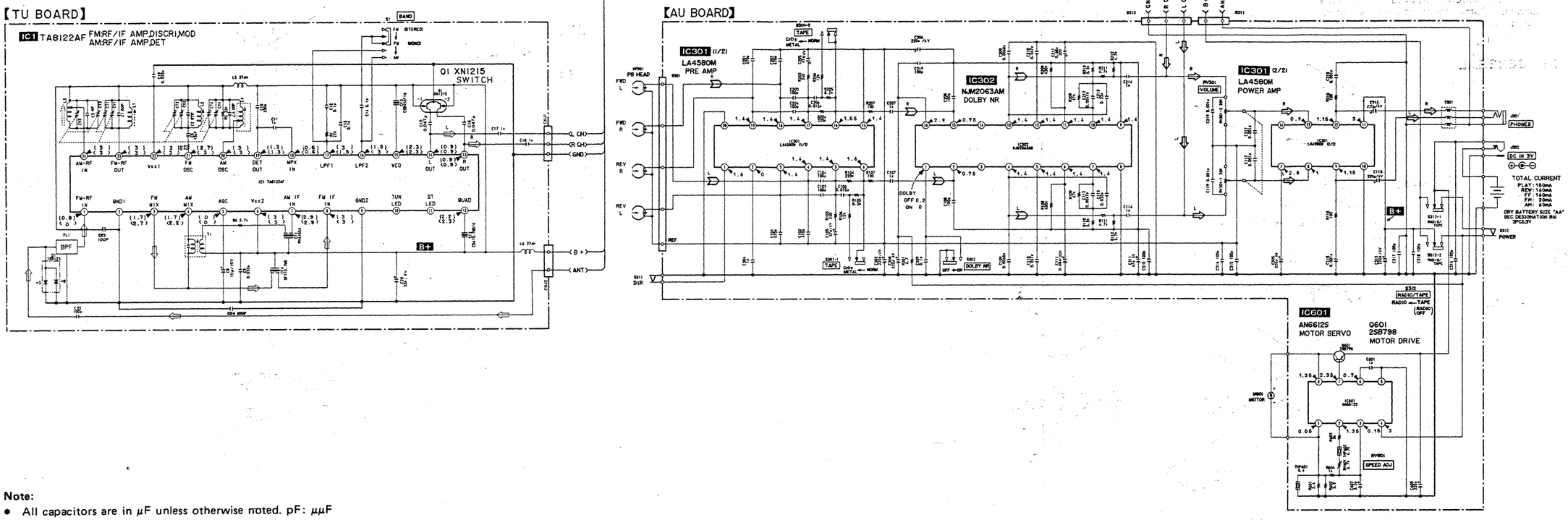
【TU BOARD】



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21



5-3. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8W or less unless otherwise specified.
- ▭ : adjustment for repair.
- Total current measured with no cassette installed.
- Power voltage is dc 3 V and fed with regurated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground in playback mode.
  no mark: TAPE PB
  ( ) : FM
  < > : AM
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  Σ : PB
- Switches:

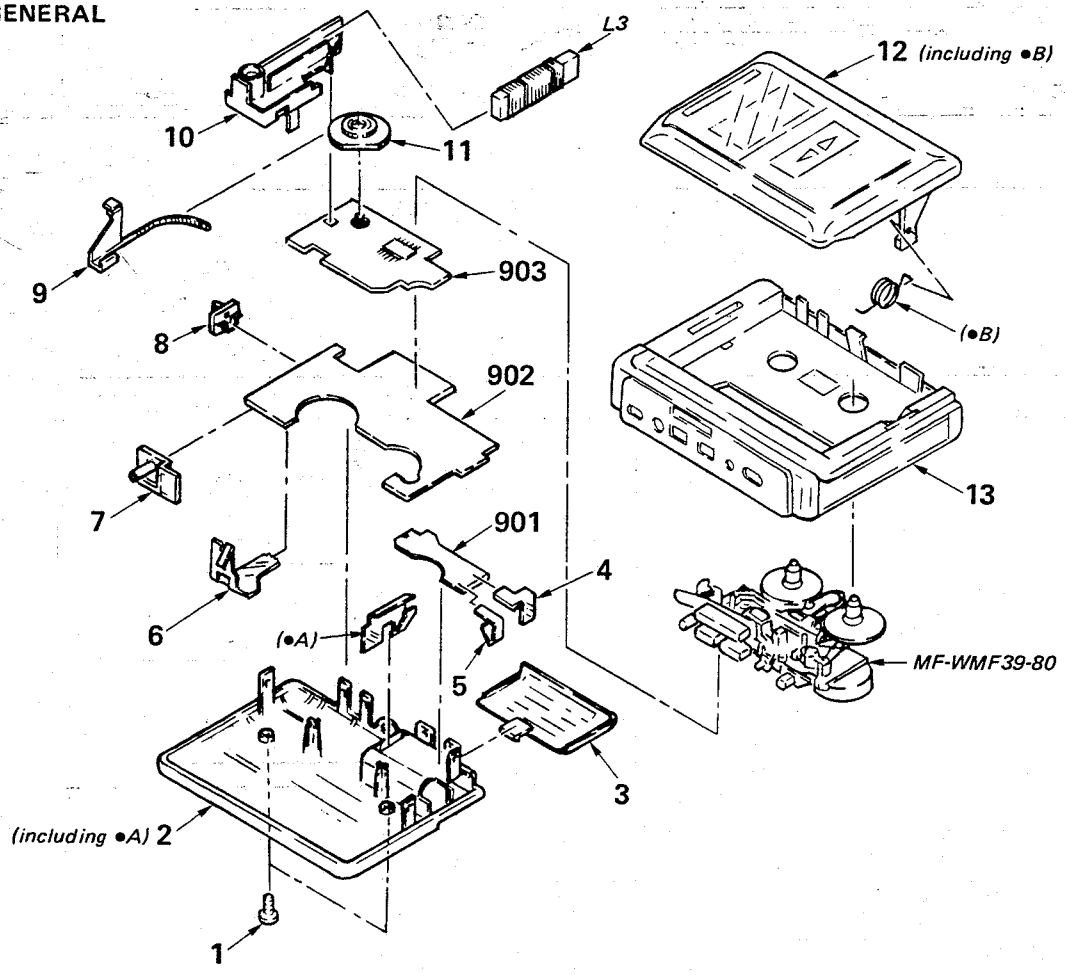
Ref. No.	Switch	Position
S1	BAND	FM (STEREO)
S301	TAPE	NORM
S302	DOLBY NR	OFF
S310	POWER	OFF
S312	RADIO/TAPE	TAPE

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

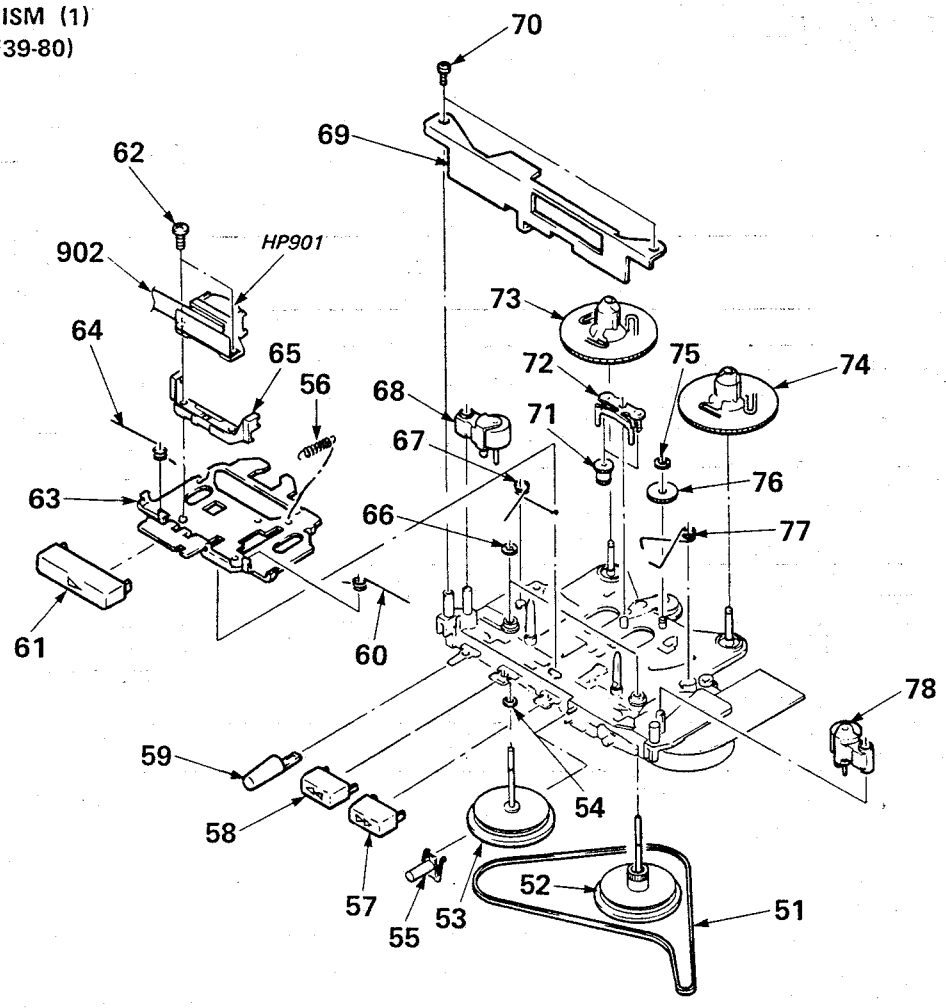
6-1. GENERAL



Ref.No	Part No.	Description	Remarks
1	7-685-105-19	TAPPING +P 2X8 NON-SLIT	
2	X-3346-518-1	CABINET (REAR) (CF) (B) ASSY	
3	3-346-585-01	LID (B), BATTERY CASE	
4	3-346-589-01	TERMINAL (PLUS), BATTERY	
5	3-346-590-01	TERMINAL (MINUS), BATTERY	
6	★3-346-714-01	PLATE (HD), SHIELD	
7	3-346-596-01	RNOB (FUNC)	
8	3-346-592-01	KNOB (SW)	
9	3-346-702-01	POINTER	
10	★3-346-701-01	HOLDER, ANTENNA	

Ref.No	Part No.	Description	Remarks
11	3-346-599-01	KNOB (TUN)	
12	X-3346-557-1	HOLDER (CF) (B) ASSY, CASSETTE	
13	X-3346-535-1	CABINET (FRONT) (CF) (H) ASSY	
13	X-3346-556-1	(WG)....CABINET (FRONT) (CF) (I) ASSY	
901	★1-626-543-21	PC BOARD, BATTERY TERMINAL	
902	A-3270-509-A	MOUNTED PCB, AU	
903	A-3216-549-A	(IT)....PC BOARD ASSY, TU	
903	A-3216-553-A	(WG)....PC BOARD ASSY, TU	

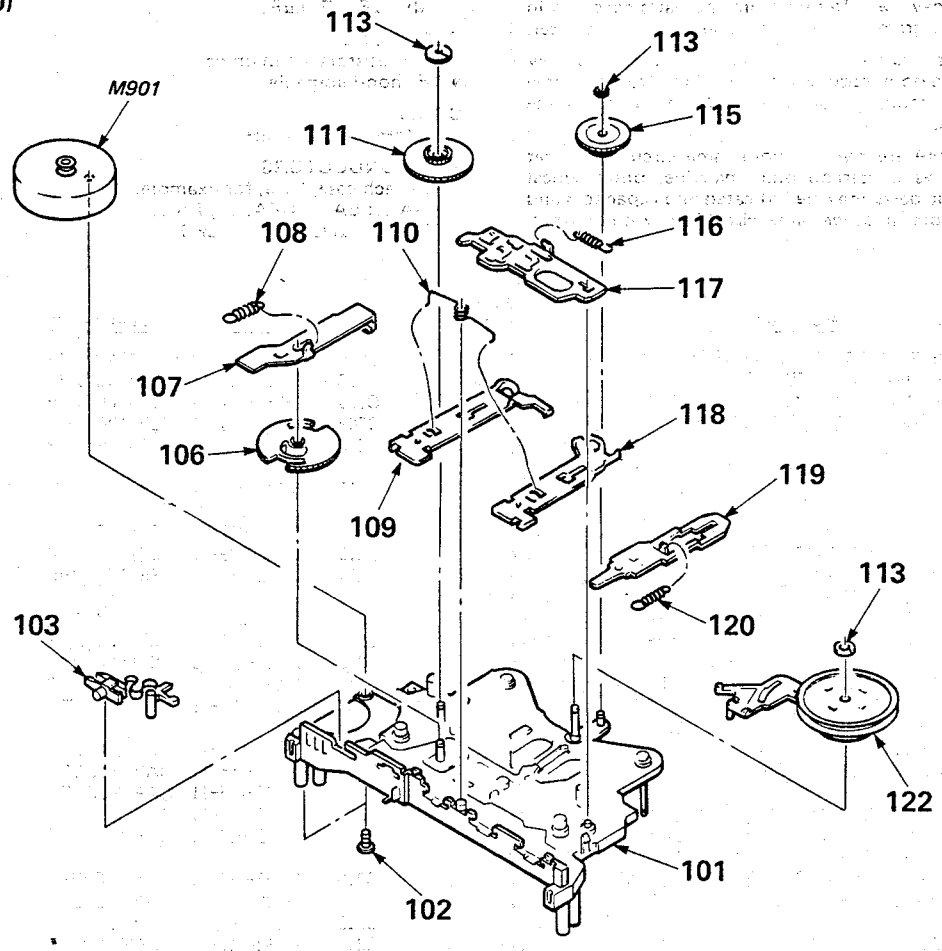
6-2. MECHANISM (1)
(MF-WMF39-80)



No.	Part No.	Description	Remarks
51	3-341-267-01	BELT, CAPSTAN	
52	X-3335-635-1	FLYWHEEL (T) ASSY	
53	X-3335-636-1	FLYWHEEL ASSY	
54	3-701-437-11	WASHER (242T), TEFLON	
55	3-341-294-01	BUTTON (DIR)	
56	3-341-271-01	SPRING, TENSION	
57	3-346-587-01	BUTTON (F)	
58	3-346-588-01	BUTTON (R)	
59	3-341-961-01	BUTTON (STOP)	
60	3-341-276-11	SPRING (N)	
61	3-346-586-01	BUTTON (P)	
62	3-704-252-21	SCREW (M 1.4 X 3.8)	
63	3-341-711-01	LEVER, PLAY	
64	3-341-277-11	SPRING (R)	
65	3-341-702-01	GUIDE, TAPE	

No.	Part No.	Description	Remarks
66	3-321-483-11	RING, RETAINING	
67	3-341-270-01	SPRING (R)	
68	X-3335-624-1	PINCH LEVER (R) ASSY	
69	3-341-762-01	HOLDER, S	
70	3-893-942-21	SCREW (1.7 X 5), TAPPING (B)	
71	3-341-275-01	GEAR, FR	
72	3-341-701-01	LEVER, FR	
73	3-341-291-01	GEAR, S REEL	
74	3-341-290-01	GEAR, T REEL	
75	3-341-752-01	WASHER, POLYETHYLENE (t=0.13)	
	3-341-752-11	WASHER, POLYETHYLENE (t=0.25)	
76	3-341-265-01	GEAR, R	
77	3-341-763-01	SPRING	
78	X-3335-623-1	PINCH LEVER (N) ASSY	
HP901	1-543-524-11	HEAD, MAGNETIC (PLAY BACK)	
902	1-623-643-11	PC BOARD, HEAD FLEXIBLE	

6-3. MECHANISM (2) (MF-WMF39-80)



No.	Part No.	Description	Remarks
101	A-3163-146-A	CHASSIS ASSY	
102	3-335-797-31	SCREW (M 1.4 X 3), TOOTHED LOCK	
103	3-341-293-01	LEVER, MODE	
106	3-341-292-01	GEAR, CAM	
107	3-341-299-01	LEVER, DIR	
108	3-341-274-01	SPRING (POWER TENSION), TENSION	
109	3-341-295-01	LEVER, FF	
110	3-341-268-01	SPRING	
111	3-341-289-01	GEAR, DECELERATION	

No.	Part No.	Description	Remarks
113	3-341-753-01	WASHER, POLYETHYLENE (t=0.13)	
	3-341-753-11	WASHER, POLYETHYLENE (t=0.25)	
115	3-341-266-01	GEAR, T	
116	3-341-272-01	SPRING, TENSION	
117	3-341-298-01	PLATE, LOCK	
118	3-341-296-01	LEVER, REW	
119	3-341-297-01	LEVER, STOP	
120	3-341-273-01	SPRING, TENSION	
122	A-3239-894-A	WHEEL ASSY, MIDWAY	
M901	A-3133-336-A	MOTOR BLOCK, ASSY	

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: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

Ref.No	Part No.	Description
901	★1-626-543-21	PC BOARD, BATTERY TERMINAL
902	A-3270-509-A	MOUNTED PCB, AU
903	A-3216-549-A	(IT)....PC BOARD ASSY, TU
903	A-3216-553-A	(WG)....PC BOARD ASSY, TU

CAPACITOR

Ref.No	Part No.	Description			
C1	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C2	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C3	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C4	1-163-353-91	CERAMIC CHIP	10PF	5%	50V
C5	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C8	1-126-157-11	ELECT	10MF	20%	16V
C9	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
C10	1-163-129-00	CERAMIC CHIP	330PF	10%	50V
C11	1-162-638-11	CERAMIC CHIP	1MF		16V
C12	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C13	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C14	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C15	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C16	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C17	1-162-638-11	CERAMIC CHIP	1MF		16V
C18	1-162-638-11	CERAMIC CHIP	1MF		16V
C19	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
C20	1-124-431-00	ELECT	33MF	20%	4V
C22	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C23	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C24	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C101	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C102	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C103	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C104	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C105	1-126-208-11	CAP, ELECT	47MF	20%	4V
C106	1-163-023-00	CERAMIC CHIP	0.015MF	5%	50V
C107	1-162-638-11	CERAMIC CHIP	1MF		16V
C108	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C109	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C110	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C111	1-135-087-21	TANTAL. CHIP	0.68MF	10%	20V
C111	1-135-087-21	TANTAL. CHIP	0.68MF	10%	20V
C112	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V
C113	1-163-989-11	CERAMIC CHIP	0.033MF	5%	25V
C114	1-162-638-11	CERAMIC CHIP	1MF		16V
C116	1-126-246-11	CAP, ELECT	220MF	20%	4V
C117	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C118	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C119	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C201	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C202	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C203	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C204	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C205	1-126-208-11	CAP, ELECT	47MF	20%	4V
C206	1-163-023-00	CERAMIC CHIP	0.015MF	5%	50V
C207	1-162-638-11	CERAMIC CHIP	1MF		16V
C208	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C209	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C210	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C211	1-135-087-21	TANTAL. CHIP	0.68MF	10%	20V
C211	1-135-087-21	TANTAL. CHIP	0.68MF	10%	20V
C212	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V
C213	1-163-989-11	CERAMIC CHIP	0.033MF	5%	25V
C214	1-162-638-11	CERAMIC CHIP	1MF		16V
C216	1-126-246-11	CAP, ELECT	220MF	20%	4V
C217	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C218	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C219	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C302	1-126-246-11	CAP, ELECT	220MF	20%	4V
C304	1-162-638-11	CERAMIC CHIP	1MF		16V
C305	1-126-246-11	CAP, ELECT	220MF	20%	4V
C306	1-126-246-11	CAP, ELECT	220MF	20%	4V
C308	1-126-246-11	CAP, ELECT	220MF	20%	4V
C309	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C310	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C311	1-126-208-11	CAP, ELECT	47MF	20%	4V
C313	1-126-246-11	CAP, ELECT	220MF	20%	4V
C314	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C315	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C316	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C317	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C318	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C319	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C601	1-162-638-11	CERAMIC CHIP	1MF		16V
C602	1-126-196-11	CAP, ELECT	3.3MF	20%	50V
C603	1-126-246-11	CAP, ELECT	220MF	20%	4V
CF1	1-567-090-00	FILTER, CERAMIC			
CF2	1-577-090-61	FILTER, CERAMIC			
CF3	1-577-091-11	OSCILLATOR, CRYSTAL			
CF4	1-577-090-61	FILTER, CERAMIC			
CNJ1	★1-565-368-11	PIN, CONNECTOR 3P			
CNJ2	★1-565-368-11	PIN, CONNECTOR 3P			
CV1	1-151-605-11	CAP, VAR, POLYETHYLENE			
D1	8-719-101-23	DIODE 1SS123			
FL1	1-236-169-11	FILTER, BAND PASS			
HP901	1-543-524-11	HEAD, MAGNETIC (PLAY BACK)			
IC1	8-759-230-39	IC TA8122AF			
IC301	8-759-820-66	IC LA4580M			
IC302	8-759-701-07	IC NJM2063AM			
IC601	8-759-400-12	IC AN6612S			
J301	1-566-800-11	JACK			
J302	1-565-371-21	JACK, OUTER POWER			

Ref.No	Part No.	Description			
JR1-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR2	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR2-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR3-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR4-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR5	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR5-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR6	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR6-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR7	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR7-1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR8	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR10	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR11	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR13	1-216-295-00	METAL GLAZE	0	5%	1/10W
L1	1-459-848-11	COIL (WITH CORE) (RF) (FM)			
L2	1-459-859-11	COIL (OSC) (FM)			
L3	1-402-369-11	ANTENNA, FERRITE-ROD MW			
L4	1-406-285-11	COIL (OSC) (AM)			
L5	1-410-209-51	INDUCTOR CHIP 27UH			
L6	1-410-209-51	INDUCTOR CHIP 27UH			
M901	A-3133-336-A	MOTOR BLOCK ASSY			
Q1	8-729-403-17	TRANSISTOR XN1215			
Q601	8-729-903-47	TRANSISTOR 2SB1132Q			

RESISTOR

R1	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2	1-216-009-00	METAL GLAZE	22	5%	1/10W
R5	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R6	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W
R103	1-216-034-00	METAL GLAZE	240	5%	1/10W
R104	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R105	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R106	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R107	1-216-025-00	METAL GLAZE	100	5%	1/10W
R108	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R109	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R110	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R111	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R112	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R116	1-216-025-00	METAL GLAZE	100	5%	1/10W
R203	1-216-034-00	METAL GLAZE	240	5%	1/10W
R204	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R205	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R206	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R207	1-216-025-00	METAL GLAZE	100	5%	1/10W
R208	1-216-112-00	METAL GLAZE	430K	5%	1/10W
R209	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R210	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R211	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R212	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R216	1-216-025-00	METAL GLAZE	100	5%	1/10W
R301	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R601	1-216-135-00	METAL GLAZE	2.4	5%	1/8W
R602	1-216-140-00	METAL GLAZE	3.9	5%	1/8W
R603	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R604	1-216-049-00	METAL GLAZE	1K	5%	1/10W
RV301	1-238-161-11	RES, VAR 20K/20K (VOLUME)			
RV601	1-238-181-11	RES, ADJ, CERMET 4.7K			

Ref.No	Part No.	Description
S1	1-570-386-21	SWITCH, SLIDE (BAND)
S301	1-571-277-11	SWITCH, SLIDE (TAPE)
S302	1-571-275-11	SWITCH, SLIDE (DOLBY)
S310	1-571-518-11	SWITCH, LEAF (POWER)
S311	1-571-519-11	SWITCH, LEAF (DIR)
S312	1-571-277-11	SWITCH, SLIDE (TAPE/RADIO)
T1	1-404-793-11	TRANSFORMER, IF
T301	1-409-445-11	COIL, TRAP
THP601	1-808-389-11	THERMISTOR, POSITIVE
THP602	1-808-388-11	THERMISTOR, POSITIVE
TP1	*1-535-657-11	TERMINAL
TP2	*1-535-657-11	TERMINAL
W301	*1-565-370-11	HOUSING, CONNECTOR 5P
W310	*1-565-369-11	SOCKET, CONNECTOR 3P
W311	*1-565-369-11	SOCKET, CONNECTOR 3P

ACCESSORY & PACKING MATERIAL

3-701-622-00	BAG, POLYETHYLENE
3-346-518-01	CLIP, BELT
*3-346-565-01	CUSHION (UPPER)
*3-346-574-01	CUSHION (LOWER)
*3-346-783-01	INDIVIDUAL CARTON
3-786-016-41	MANUAL, INSTRUCTION
8-952-313-90	HEADPHONE MDR-005L/B SET