

TCM-S67V

SERVICE MANUAL



US Model
Canadian Model
AEP Model
UK Model
E Model

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MT-S63

SPECIFICATIONS

Recording system 2-track 1 channel monaural
Frequency response 250 – 6,300 Hz
Speaker Approx. 3.6 cm (1 7/16 in.) dia.
Power output 130 mW (at 10% harmonic distortion)
Input Microphone input jack (minijack) sensitivity 0.2 mV for 3 k Ω or lower impedance microphone
Output Earphone jack (minijack) for 8 – 300 Ω earphone
Power requirements 3 V DC, two R6 (size AA) batteries
DC IN 3V Jack accepts:
• Sony AC power adaptor (supplied to purchased in Canada) or
AC-E30M AC power adaptor (not supplied) for use on:

Canada, US	120 V AC, 60 Hz
U.K.	240 V AC, 50 Hz
European countries	220 V AC, 60 Hz or 220 V AC, 50 Hz

• Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

Battery life

Batteries	Recording
Sony batteries SUM-3 (NS)	Approx. 4 hours
Sony alkaline batteries AM3(N)	Approx. 12 hours

Dimensions

Approx. 93.6 x 120.1 x 39.5 mm (w/h/d) (3 3/4 x 4 7/8 x 1 9/16 in.)
incl. projecting parts and controls

Mass

Approx. 280g (9.9 oz.)
incl. batteries

Supplied accessories

AC power adaptor (1)
Car battery cord DCC-E130L
Monaural earphone ME-81, ME-L82
Connecting cord RK-G64HG
Electret condenser microphone ECM-T10 (Except US)
Electret condenser microphone ECM-011 (US)
AC power adaptor AC-E30M

Your dealer may not handle some of the listed optional accessories. Please ask the dealer for detailed information.

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.



CASSETTE-CORDER
SONY®

Operating with Batteries

When to replace the batteries

When the batteries become weak, the REC/BATT indicator will glow faintly and the playback sound will become distorted or unstable.

In this case, replace both batteries with new ones.

Concerning the battery life, see "Specifications".

Operating on House Current

Note on the AC power adaptor

Use only the supplied AC power adaptor (purchased in Canada only) or the AC-E30M AC power adaptor (not supplied). Do not use any other AC power adaptor.

Polarity of the plug
(Unified polarity type)



Note

Power will be supplied through the AC power adaptor or the car battery cord when it is connected to the unit instead of the installed batteries.

Make sure that the AC power adaptor or the car battery cord is disconnected from the unit when you wish to use the unit with the installed batteries.

SERVICE NOTE

● Repairing printed resistor

Cut both side of the resistor and solder the carbon resistor having same value in place of printed one of the conductor side.

1/32W carbon resistor is supplied for the replacing part of the printed resistor.

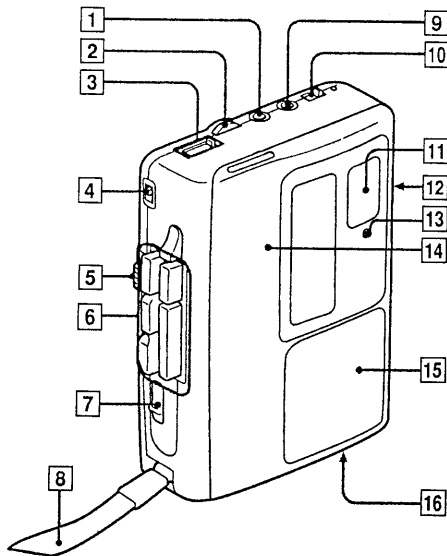
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1 GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION



- 1 MIC (microphone) (plug in power) jack
- 2 VOL (volume) control
- 3 COUNTER (tape counter) and counter reset button
For indexing the tape contents. Before recording, press the counter reset button to set the tape counter to "000".
- 4 MIC SENS (microphone sensitivity) switch
- 5 FAST PB (fast playback) switch
- 6 Tape operation buttons
● REC (record)/▶ PLAY/■ STOP/▶▶ FF/CUE (fast forward/cue)/
◀◀ REW/REVIEW (rewind/review) button
- 7 PAUSE switch
- 8 Handstrap
- 9 EAR (earphone) jack
- 10 VOR (Voice Operated Recording) switch
- 11 Flat Mic (built-in microphone)
- 12 Battery compartment (rear)
- 13 REC/BATT (recording/battery) indicator
- 14 Cassette holder
- 15 Speaker (built-in)
- 16 DC IN 3V (external power input) jack

SECTION 2
MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head

pinch roller

erase head

rubber belts

capstanidlers
- 2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Power Supply Voltage : 3V dc

Torque Measurement

Torque	Meter Reading	Torque Meter
Forward	More than 23 – 45 g-cm (More than 0.32 – 0.62 oz-inch)	CQ-102C
Fast Forward and Rewind	More than 60 g-cm (More than 0.83 oz-inch)	CQ-201B
Back Tension	1.5 – 3.5 g-cm (0.021 – 0.049 oz-inch)	CQ-102C

Tape Tension Measurement

Meter	Meter Reading
CQ-403A	More than 60g(2.12 oz)

SECTION 3
ELECTRICAL ADJUSTMENTS

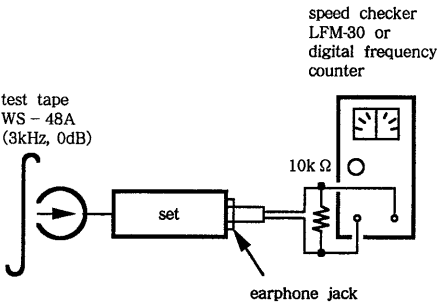
Test tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment

Tape Speed Adjustment

Setting:
VOL control: mechanical mid

Procedure:
Mode: playback

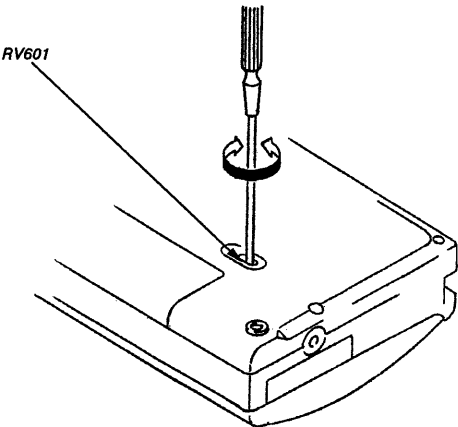


Specification:

Speed checker	Digital frequency counter
- 0.5 to +1.5%	3,000 ± 15 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

Adjustment Location : Main Board



DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
2pcs 3V

[MICROPHONE FLEXIBLE BOARD]
MIC901
CN101 DC IN 3V
D401 REC/BATT

[MAIN BOARD]
THP601
R603
R604
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SP901 SPEAKER
S104 POWER SW

M901 MOTOR
RED
BLK

HRP901 PB/REC
S102 VOR ON OFF
J102 EAR
J101 MIC

S601 PAUSE ← SWITCH
S602 FAST PB → SWITCH

CHASSIS
I-646-498

S103 MIC SENS L → H

SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	G - 11	Q101	D - 11
D102	C - 1	Q102	G - 11
D401	H - 12	Q401	F - 10
IC101	G - 10	Q501	D - 10
IC501	E - 11	Q502	F - 9
IC601	D - 6	Q503	F - 11

SEMICONDUCTOR LEAD LAYOUT

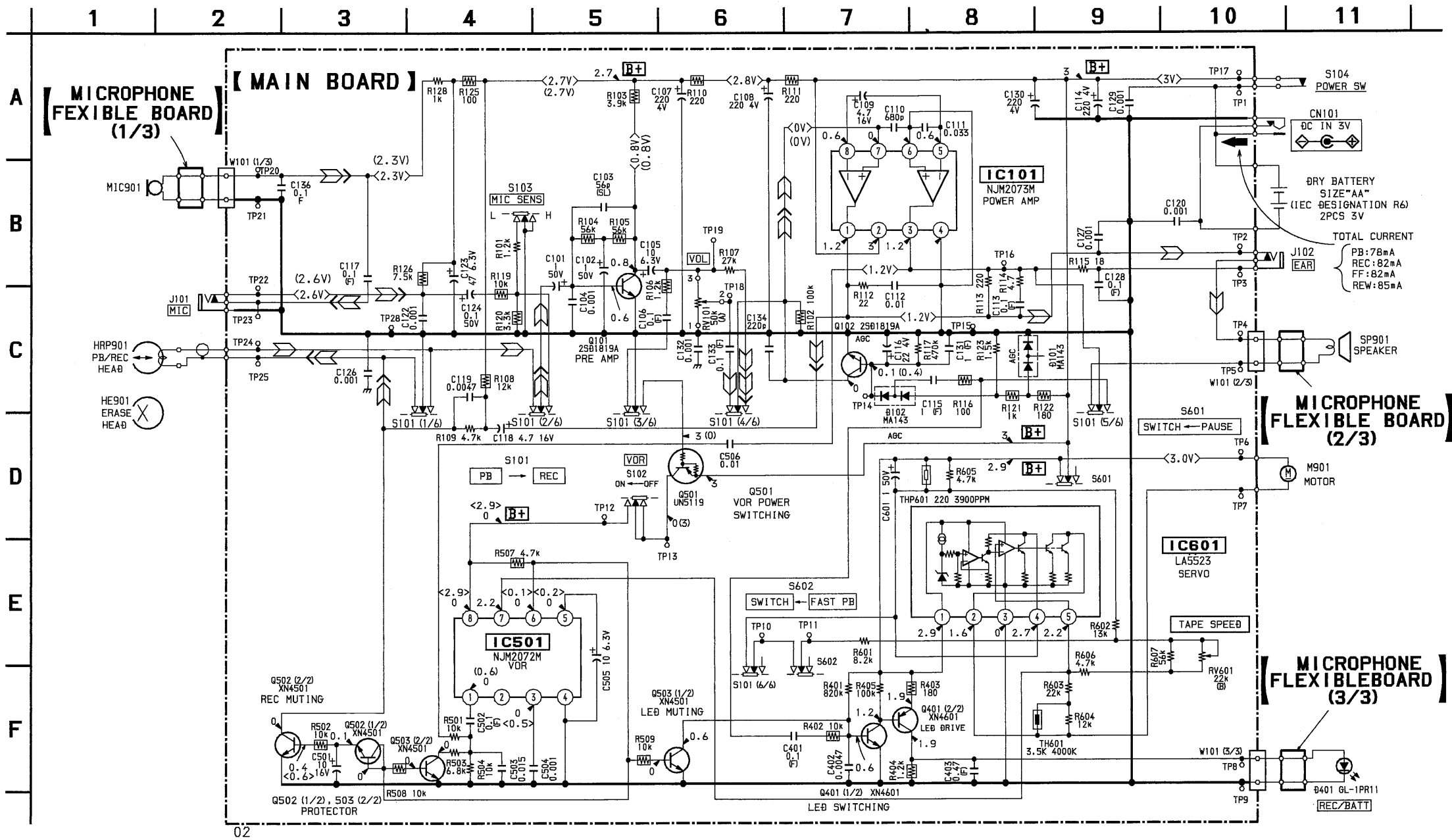
LA5523	2SD1819A-R UN5119	XN4501	XN4601	1SS226

Note:

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : Through hole.
-  : Pattern on the side which is seen.
-  : Pattern of the rear side.
-  : printed resistor.

LA5523	2SD1819A-R UN5119	XN4501	XN4601	1SS226

4-2. SCHEMATIC DIAGRAMS



Note :

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\text{---} \text{---} \text{---}$: printed resistor.
- B+ : B+ Line
- --- : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 3V and fed with regulated dc power supply from external power voltage jack.

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

no mark : PLAY
() : REC
() : VOR ON

- Voltages are taken with a VOM (Input impedance $10M \Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.

--- : PB
 --- : REC

SECTION 5 EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Color indication of Appearance Parts

Example :

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

Parts color

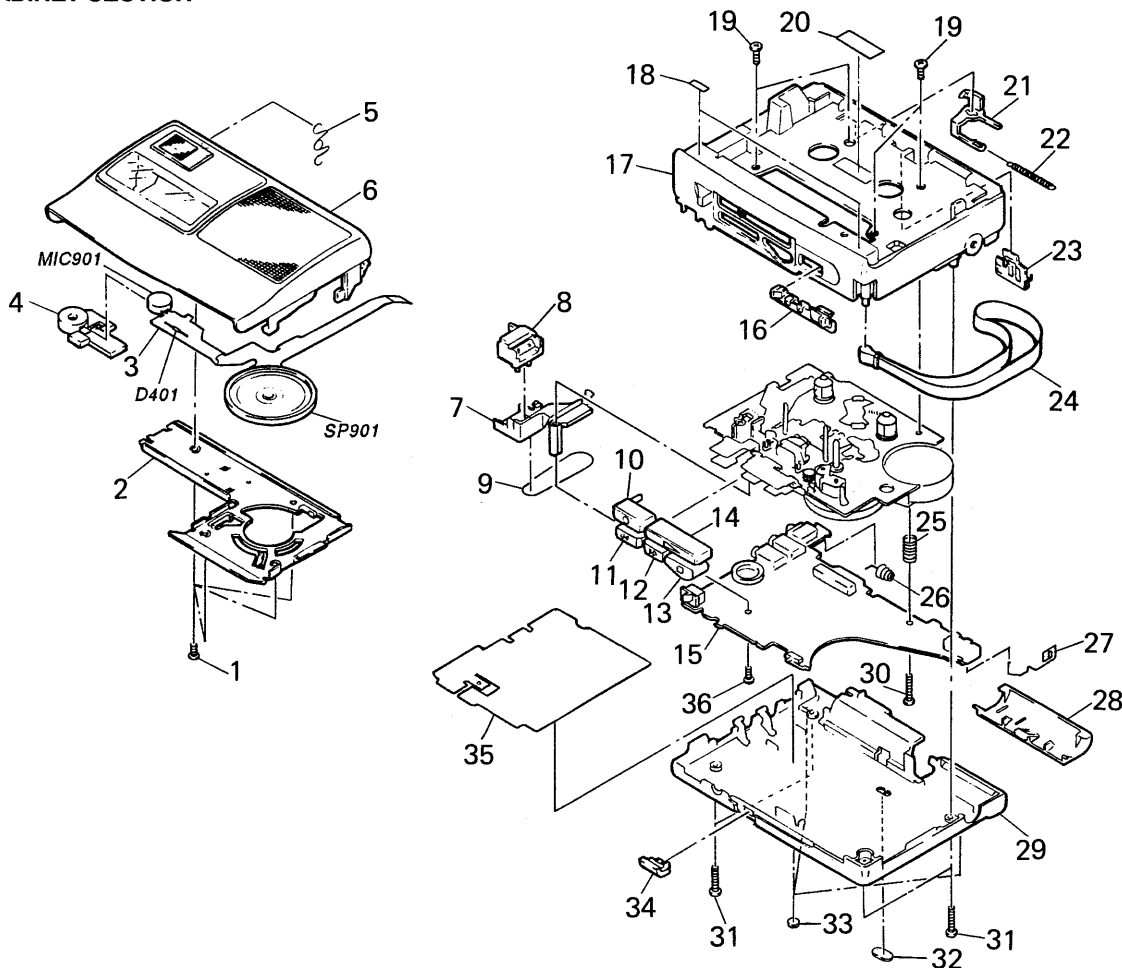
Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark)list is given in the last of this parts list.

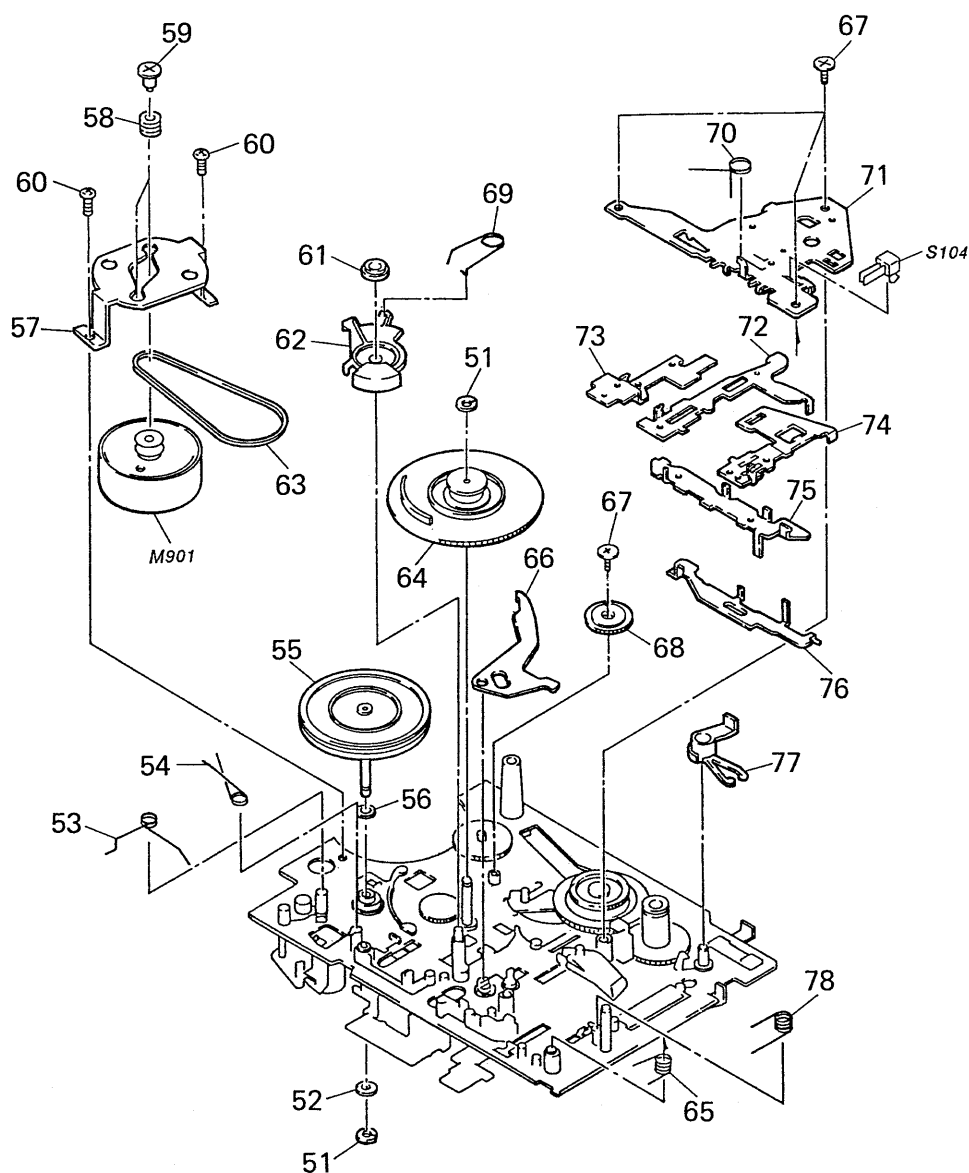
5-1. CABINET SECTION



Ref.No.	Part No.	Description	Remark
1	3-318-382-01	SCREW (1.7X3), TAPPING	
* 2	3-385-848-01	BRACKET (SPK2)	
3	1-646-496-11	PC BOARD, MICROPHONE FLEXIBLE	
* 4	3-385-850-01	CUSHION (MICROPHONE FLAT)	
5	3-346-509-11	SPRING, CASSETTE-UP	
6	X-3366-080-1	LID (B-F) ASSY, CASSETTE	
7	3-386-077-01	BRACKET (COUNTER)	
8	1-548-582-11	COUNTER, TAPE (SMALL TYPE)	
9	3-386-076-01	BELT (COUNTER)	
10	3-385-858-01	BUTTON (REC)	
11	3-385-861-01	BUTTON (REW)	
12	3-385-860-01	BUTTON (FF)	
13	3-385-862-01	BUTTON (STOP)	
14	3-385-859-01	BUTTON (PLAY)	
* 15	A-3016-287-A	MAIN BOARD, COMPLETE	
16	3-385-870-01	KNOB (PAUSE)	
17	3-385-886-41	CABINET (FRONT)	
18	3-831-441-XX	CUSHION	
19	3-318-203-61	SCREW (B1.7X4), TAPPING	
20	3-578-101-21	PLATE, ORNAMENTAL	

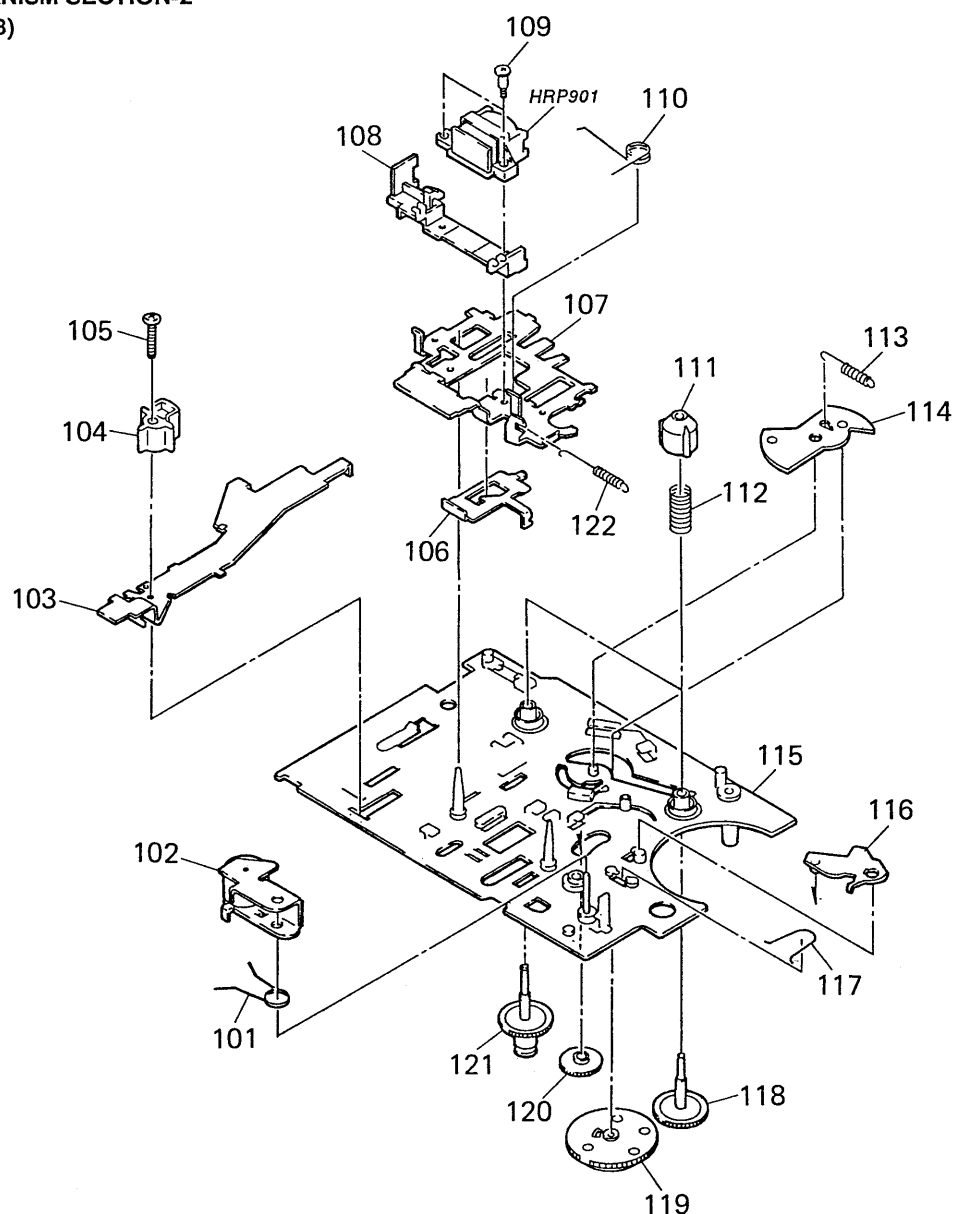
Ref.No.	Part No.	Description	Remark
21	3-385-866-01	LEVER (CLAW DETECTION)	
22	3-385-855-01	SPRING (CLAW DETECTION), TENSION	
23	3-385-867-01	SPRING (CASSETTE RETAINER), LEAF	
24	3-320-982-01	STRAP, HAND	
25	3-386-123-01	SPRING (PC BOARD GROUND)	
26	3-385-864-01	SPRING, BATTERY COIL	
27	3-385-863-01	TERMINAL, BATTERY	
28	3-385-876-01	LID, BATTERY CASE	
29	3-385-869-01	CABINET (REAR)	
30	3-345-648-03	SCREW (M1.4X4.0), TOOTHED LOCK	
31	3-334-565-01	SCREW (B1.7X10), TAPPING	
32	3-358-363-11	PLATE, BLIND	
33	3-331-603-01	FOOT	
34	3-385-857-01	KNOB (F-PB)	
35	3-385-871-01	PAPER, SHIELD	
36	3-386-078-02	SCREW	
D401	8-719-918-65	LED GL-1PR102	
MIC901	1-542-124-31	MICROPHONE, ELECTRET CONDENSER	
SP901	1-544-657-11	SPEAKER (3.6CM)	

5-2. MECHANISM SECTION-1
(MT-S63)



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
51	3-385-743-01	WASHER		* 66	3-385-735-01	LEVER, FR	
52	3-385-753-01	WASHER		67	3-385-728-01	SCREW	
53	3-385-732-01	SPRING		68	3-385-727-01	GEAR, FF	
54	3-385-733-01	SPRING		69	3-385-745-01	SPRING	
55	X-3366-064-1	ASSY, FLYWHEEL		70	3-385-742-01	SPRING	
56	3-385-754-01	P WASHER		* 71	3-385-741-01	GUIDE, LEVER	
57	3-385-748-01	BRACKET, MOTOR		* 72	3-385-740-01	LEVER, FF	
58	3-385-749-01	RUBBER, MOTOR		* 73	3-385-731-01	LEVER, STOP	
59	3-385-750-01	SCREW		* 74	3-385-739-01	LEVER, REW	
60	3-385-751-01	SCREW		* 75	3-385-737-01	LEVER, LOCK	
61	3-385-746-01	BUSH, GEAR		* 76	3-385-736-01	LEVER, SWITCH	
62	3-385-744-01	LEVER, AS		77	3-385-730-01	ARM, REC	
63	3-385-752-01	BELT		78	3-385-738-01	SPRING	
64	X-3366-063-1	ASSY, FRICTION		M901	X-3366-095-1	MOTOR, ASSY	
65	3-385-734-01	SPRING		S104	1-692-400-11	SWITCH, LEAF (POWER)	

5-3. MECHANISM SECTION-2
(MT-S63)



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
101	3-385-726-01	SPRING		113	3-385-717-01	SPRING	
102	X-3366-062-1	ASSY, PINCH ARM		114	X-3366-060-1	ASSY, CENTER ARM	
* 103	3-385-724-01	LEVER, REC		115	X-3366-058-1	ASSY, MECHA CHASSIS	
104	X-3366-061-1	ASSY, E/H C		116	X-3366-059-1	ASSY, PLAY ARM	
105	3-385-725-01	SCREW		117	3-385-712-01	SPRING	
* 106	3-385-719-01	PLATE, PLAY		118	3-385-713-01	GEAR, REEL	
* 107	3-385-718-01	CHASSIS, HEAD		119	X-3366-065-1	ASSY, GEAR FR	
108	3-385-721-01	GUIDE, HEAD		120	3-385-729-01	GEAR, PLAY	
109	3-385-723-01	SCREW		121	3-385-714-01	GEAR, REEL	
110	3-385-720-01	SPRING		122	3-385-756-01	SPRING	
111	3-385-716-01	REEL		HRP901 1-543-607-21 HEAD, MAGNETIC (REC/PB)			
112	3-385-715-01	SPRING					

MAIN

SECTION 6 ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3016-287-A	MAIN BOARD, COMPLETE *****		C401	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C402	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C101	1-126-301-11	ELECT 1uF	20% 50V	C403	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C102	1-126-160-11	ELECT 1uF	20% 50V	C501	1-126-157-11	ELECT 10uF	20% 16V
C103	1-162-950-11	CERAMIC CHIP 56PF	5% 50V	C502	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C104	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C503	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
C105	1-126-157-11	ELECT 10uF	20% 16V	C504	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C106	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C505	1-126-157-11	ELECT 10uF	20% 16V
C107	1-104-402-21	ELECT 220uF	20% 4V	C506	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C108	1-124-635-00	ELECT 220uF	20% 4V	C601	1-126-160-11	ELECT 1uF	20% 50V
C109	1-126-163-11	ELECT 4.7uF	20% 50V			< CONNECTOR >	
C110	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	CN101	1-580-919-11	JACK, DC(POLARITY UNIFIED TYPE)(DC IN 3V)	
C111	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V			< DIODE >	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	D101	8-719-800-76	DIODE 1SS226	
C113	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D102	8-719-800-76	DIODE 1SS226	
C114	1-124-635-00	ELECT 220uF	20% 4V			< IC >	
C115	1-164-346-11	CERAMIC CHIP 1uF	16V	IC101	8-759-701-02	IC NJM2073M	
C116	1-124-430-00	ELECT 22uF	20% 4V	IC501	8-759-701-51	IC NJM2072M	
C117	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC601	8-759-801-12	IC LA5523	
C118	1-126-163-11	ELECT 4.7uF	20% 50V			< JACK >	
C119	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	J101	1-569-215-31	JACK (MIC)	
C120	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	J102	1-569-215-31	JACK (EAR)	
C122	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V			< JUMPER RESISTOR >	
C123	1-126-154-11	ELECT 47uF	20% 6.3V	JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
C124	1-124-463-00	ELECT 0.1uF	20% 50V	JR3	1-216-296-00	METAL CHIP 0 5% 1/8W	
C126	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	JR4	1-216-296-00	METAL CHIP 0 5% 1/8W	
C127	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	JR5	1-216-296-00	METAL CHIP 0 5% 1/8W	
C128	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR6	1-216-296-00	METAL CHIP 0 5% 1/8W	
C129	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	JR7	1-216-296-00	METAL CHIP 0 5% 1/8W	
C130	1-124-635-00	ELECT 220uF	20% 4V	JR9	1-216-295-00	METAL CHIP 0 5% 1/10W	
C131	1-164-346-11	CERAMIC CHIP 1uF	16V	JR10	1-216-296-00	METAL CHIP 0 5% 1/8W	
C132	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	JR11	1-216-296-00	METAL CHIP 0 5% 1/8W	
C133	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C134	1-162-960-11	CERAMIC CHIP 220PF	10% 50V				
C136	1-164-156-11	CERAMIC CHIP 0.1uF	25V				

MAIN

MICROPHONE FLEXIBLE

Ref. No.	Part No.	Description			Remark
JR12	1-216-296-00	METAL CHIP	0	5%	1/8W
JR14	1-216-296-00	METAL CHIP	0	5%	1/8W
JR15	1-216-296-00	METAL CHIP	0	5%	1/8W
JR16	1-216-295-00	METAL CHIP	0	5%	1/10W
JR17	1-216-296-00	METAL CHIP	0	5%	1/8W
JR18	1-216-295-00	METAL CHIP	0	5%	1/10W
JR20	1-216-295-00	METAL CHIP	0	5%	1/10W
JR21	1-216-296-00	METAL CHIP	0	5%	1/8W
JR24	1-216-295-00	METAL CHIP	0	5%	1/10W
JR25	1-216-296-00	METAL CHIP	0	5%	1/8W
JR27	1-216-296-00	METAL CHIP	0	5%	1/8W
JR29	1-216-296-00	METAL CHIP	0	5%	1/8W
JR30	1-216-296-00	METAL CHIP	0	5%	1/8W
< TRANSISTOR >					
Q101	8-729-402-32	TRANSISTOR	2SD1819A-R		
Q102	8-729-402-32	TRANSISTOR	2SD1819A-R		
Q401	8-729-402-84	TRANSISTOR	XN4601		
Q501	8-729-425-21	TRANSISTOR	UN5119		
Q502	8-729-402-81	TRANSISTOR	XN4501		
Q503	8-729-402-81	TRANSISTOR	XN4501		
< RESISTOR >					
R101	1-216-822-11	METAL CHIP	1. 2K	5%	1/16W
R102	1-249-441-11	CARBON	100K	5%	1/4W
R103	1-249-424-11	CARBON	3. 9K	5%	1/4W
R104	1-249-438-11	CARBON	56K	5%	1/4W
R105	1-249-438-11	CARBON	56K	5%	1/4W
R106	1-249-418-11	CARBON	1. 2K	5%	1/4W
R107	1-216-838-11	METAL CHIP	27K	5%	1/16W
R108	1-249-430-11	CARBON	12K	5%	1/4W
R109	1-216-829-11	METAL CHIP	4. 7K	5%	1/16W
R110	1-249-409-11	CARBON	220	5%	1/4W
R111	1-249-409-11	CARBON	220	5%	1/4W
R112	1-216-801-11	METAL CHIP	22	5%	1/16W
R113	1-216-813-11	METAL CHIP	220	5%	1/16W
R114	1-216-793-11	METAL GLAZE	4. 7	5%	1/16W
R115	1-216-800-11	METAL GLAZE	18	5%	1/16W
R116	1-249-405-11	CARBON	100	5%	1/4W
R117	1-216-853-11	METAL CHIP	470K	5%	1/16W
R119	1-249-429-11	CARBON	10K	5%	1/4W
R120	1-249-423-11	CARBON	3. 3K	5%	1/4W
R121	1-249-417-11	CARBON	1K	5%	1/4W
R122	1-249-408-11	CARBON	180	5%	1/4W
R123	1-216-823-11	METAL CHIP	1. 5K	5%	1/16W
R125	1-249-405-11	CARBON	100	5%	1/4W
R126	1-215-442-00	METAL	7. 5K	1%	1/6W
R128	1-216-821-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R401	1-216-856-11	METAL CHIP	820K	5%	1/16W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-408-11	CARBON	180	5%	1/4W
R404	1-249-418-11	CARBON	1. 2K	5%	1/4W
R405	1-216-845-11	METAL CHIP	100K	5%	1/16W
R501	1-216-833-11	METAL CHIP	10K	5%	1/16W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W
R504	1-216-833-11	METAL CHIP	10K	5%	1/16W
R507	1-249-425-11	CARBON	4. 7K	5%	1/4W
R508	1-249-429-11	CARBON	10K	5%	1/4W
R509	1-249-429-11	CARBON	10K	5%	1/4W
R601	1-216-832-11	METAL CHIP	8. 2K	5%	1/16W
R602	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R603	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R604	1-216-834-11	METAL CHIP	12K	5%	1/16W
R605	1-216-829-11	METAL CHIP	4. 7K	5%	1/16W
R606	1-216-829-11	METAL CHIP	4. 7K	5%	1/16W
R607	1-216-842-11	METAL CHIP	56K	5%	1/16W
< VARIABLE RESISTOR >					
RV101	1-223-293-11	RES, VAR, CARBON	50K	(VOL)	
RV601	1-238-665-11	RES, ADJ, CERMET	22K	(TAPE SPEED)	
< SWITCH >					
S101	1-571-151-11	SWITCH, SLIDE	(REC/PB)		
S102	1-571-478-11	SWITCH, SLIDE	(VOR)		
S103	1-571-478-11	SWITCH, SLIDE	(MIC SENS)		
S601	1-570-675-11	SWITCH, SLIDE	(PAUSE/SWITCH)		
S602	1-692-397-21	SWITCH, SLIDE	(FAST PB/SWITCH)		
< THERMISTOR >					
TH601	1-808-980-11	THERMISTOR			
< THERMISTOR(POSITIVE) >					
THP601	1-810-007-11	THERMISTOR, POSITIVE			
< CONNECTOR >					
* W101	1-691-419-11	HOUSING, CONNECTOR	8P		

1-646-496-11 MICROPHONE FLEXIBLE BOARD					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

8	1-548-582-11	COUNTER, TAPE (SMALL TYPE)	
D401	8-719-918-65	LED GL-1PR102	
HRP901	1-543-607-21	HEAD, MAGNETIC (REC/PB)	
M901	X-3366-095-1	MOTOR ASSY	
MIC901	1-542-124-31	MICROPHONE, ELECTRET CONDENSER	
S104	1-692-400-11	SWITCH, LEAF (POWER)	
SP901	1-544-657-11	SPEAKER (3.6CM)	

		ACCESSORIES & PACKING MATERIALS	

	1-693-073-11	ADAPTOR, AC (AC-E350) (Canadian)	
*	3-387-183-01	CUSHION (TOP) (US)	
*	3-387-184-01	CUSHION (BOTTOM) (US)	
	3-756-196-11	MANUAL, INSTRUCTION	
		(ENGLISH, FRENCH, SPANISH, PORTUGUESE)	
		(Canadian, AEP, UK, E, Saudi Arabia)	
	3-756-196-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-756-196-41	MANUAL, INSTRUCTION	
		(GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	

TCM-S67V

SONY SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

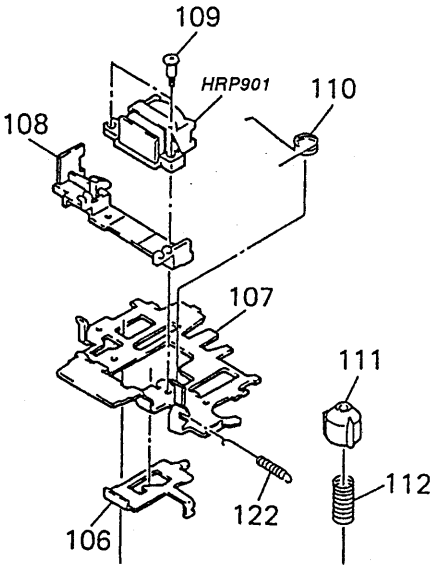
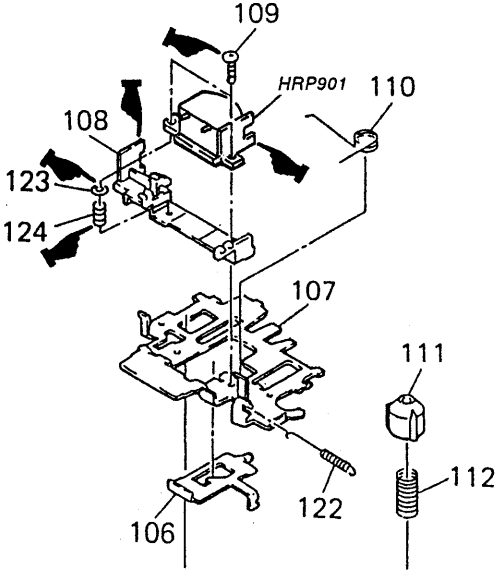
SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject : Change of REC/PB Head

Page 11

 or under line : changed portion

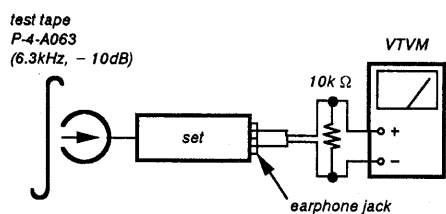
Former			New		
					
Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
108	3-385-721-01	GUIDE, HEAD	108	<u>3-907-591-01</u>	GUIDE, HEAD
109	3-385-723-01	SCREW	109	<u>3-907-592-01</u>	SCREW
123	_____		123	<u>3-907-593-01</u>	WASHER
124	_____		124	<u>3-907-594-01</u>	SPRING
HRP901	1-543-607-21	HEAD, MAGNETIC (REC/PB)	HRP901	<u>1-543-410-11</u>	HEAD, MAGNETIC (REC/PB)

The record/playback head azimuth adjustment is requested due to this change.

Record/playback Head Azimuth Adjustment

Procedure :

1. Mode : Playback

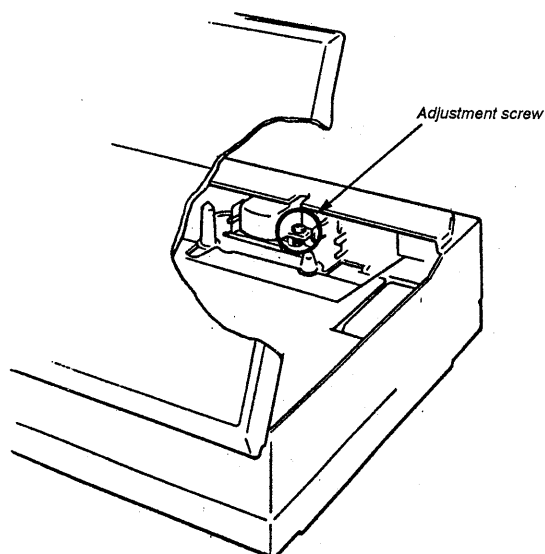


2. Turn the adjustment screw to obtain the maximum reading on VTVM.

Note : Several peaks may appear, but take the maximum.

3. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :



TCM-S67V

SONY[®] SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-2

File the Supplement with the Service Manual and Supplement-1.

Subject :

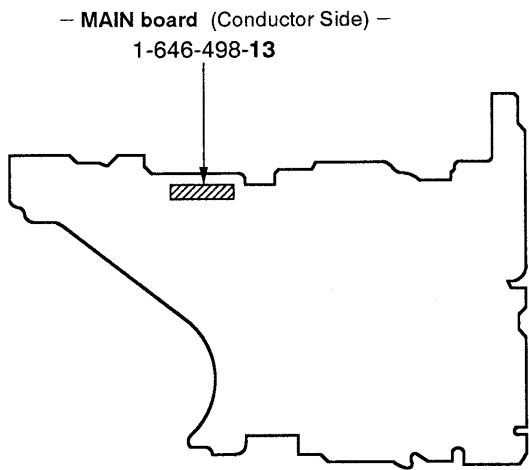
1. CHANGE OF BOARD
2. CORRECTION

(ECN-MT300499)

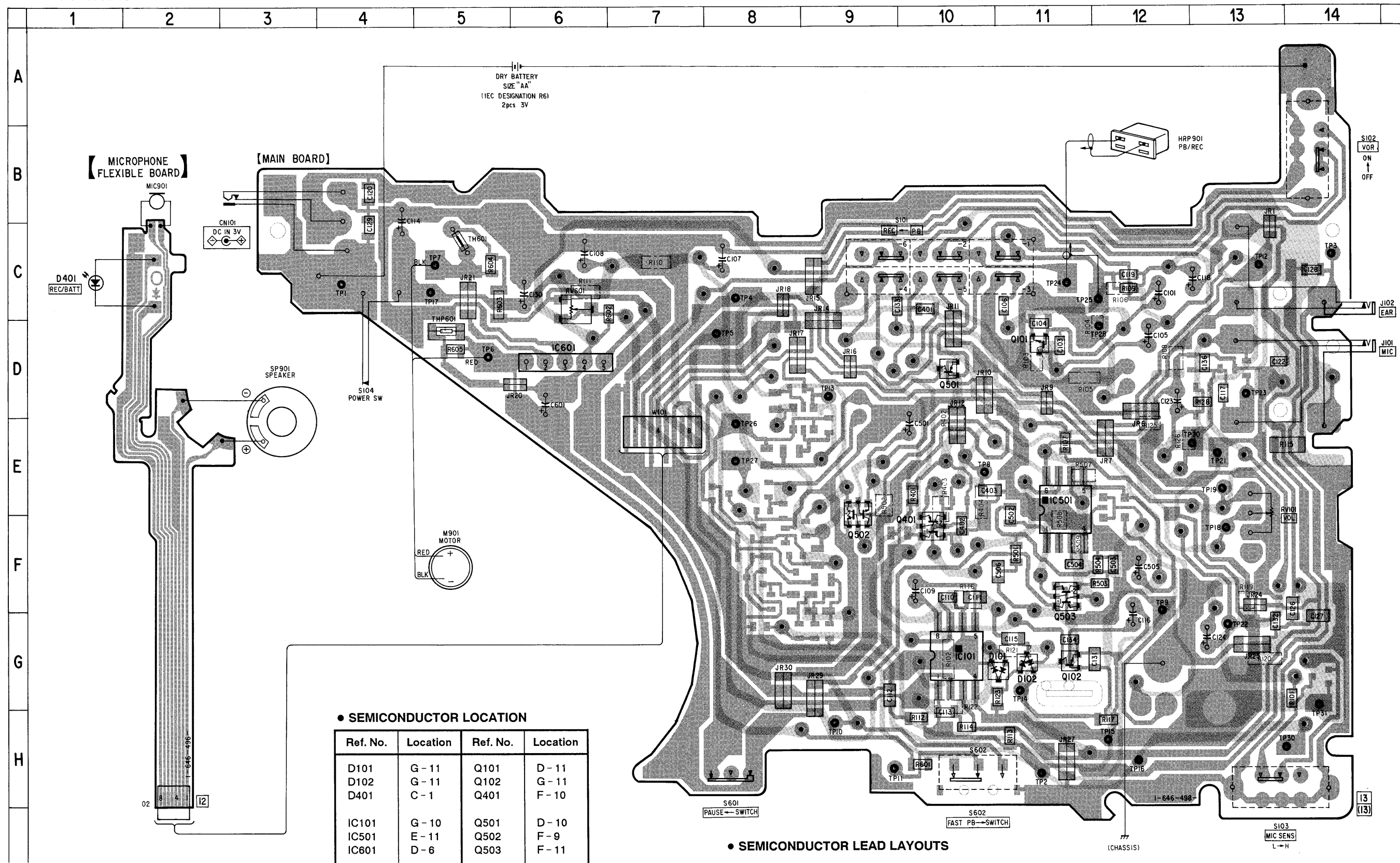
1. CHANGE OF BOARD

The main board have been changed.
Printed wiring boards and schematic diagram of new type, and changed parts list are described in this Supplement-2.
Refer to original service manual previously issued for the other information.

NEW TYPE IDENTIFICATION



1-1. PRINTED WIRING BOARDS



Note:

-  : parts extracted from the component side.
-  : parts mounted on the conductor side.
-  : Through hole.
-  : Pattern on the side which is seen.
-  : Pattern of the rear side.
-  : printed resistor.

● SEMICONDUCTOR LEAD LAYOUTS

LA5523

2SC1623-L5L6
2SD1819A-R
UN5119

XN4501

XN4601

1SS226

GL-1PR102

1-3. CHANGED ELECTRICAL PARTS LIST

MAIN

Ref. No.	Former Type						New Type						Remark
	Part No.	Description					Part No.	Description					
C102	1-126-160-11	ELECT	1uF	20%	50V								Deleted
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		Changed
C113	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1-163-038-00	CERAMIC CHIP	0.1uF		25V		Changed
C115	1-164-346-11	CERAMIC CHIP	1uF		16V		1-164-005-11	CERAMIC CHIP	0.47uF		16V		Changed
C120	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		1-163-009-11	CERAMIC CHIP	0.001uF		50V		Changed
C128	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1-163-031-11	CERAMIC CHIP	0.01uF		50V		Changed
C129	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		1-163-009-11	CERAMIC CHIP	0.001uF		50V		Changed
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1-163-038-00	CERAMIC CHIP	0.1uF		25V		Changed
C402	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V		Changed
C502	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1-163-038-00	CERAMIC CHIP	0.1uF		25V		Changed
JR3	1-216-295-00	METAL CHIP	0	5%	1/8W								Deleted
JR4	1-216-295-00	METAL CHIP	0	5%	1/8W								Deleted
JR5	1-216-295-00	METAL CHIP	0	5%	1/8W								Deleted
Q101	8-729-402-32	TRANSISTOR	2SD1819A-R				8-729-120-28	TRANSISTOR	2SC1623-L5L6				Changed
R107	1-216-838-11	METAL CHIP	27K	5%	1/16W		1-216-083-00	METAL GLAZE	27K	5%	1/10W		Changed
R112	1-216-801-11	METAL CHIP	22	5%	1/16W		1-216-009-00	METAL GLAZE	22	5%	1/10W		Changed
R113	1-216-813-11	METAL CHIP	220	5%	1/16W		1-216-033-00	METAL GLAZE	220	5%	1/10W		Changed
R115	1-216-800-11	METAL GLAZE	18	5%	1/16W		1-216-156-00	METAL GLAZE	18	5%	1/8W		Changed
R117	1-216-853-11	METAL CHIP	470K	5%	1/16W		1-216-113-00	METAL GLAZE	470K	5%	1/10W		Changed
R123	1-216-823-11	METAL CHIP	1.5K	5%	1/16W		1-216-053-11	METAL GLAZE	1.5K	5%	1/10W		Changed
R401	1-216-856-11	METAL CHIP	820K	5%	1/16W		1-216-119-00	METAL GLAZE	820K	5%	1/10W		Changed
R405	1-216-845-11	METAL CHIP	100K	5%	1/16W								Deleted
R501	1-216-883-11	METAL CHIP	10K	5%	1/16W		1-216-073-00	METAL GLAZE	10K	5%	1/10W		Changed
R601	1-216-832-11	METAL CHIP	8.2K	5%	1/16W		1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		Changed
R604	1-216-834-11	METAL CHIP	12K	5%	1/16W		1-216-075-00	METAL GLAZE	12K	5%	1/10W		Changed
R605	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		Changed
R606	1-216-829-11	METAL CHIP	4.7K	5%	1/16W								Deleted
R607	1-216-842-11	METAL CHIP	56K	5%	1/16W								Deleted

2. CORRECTION

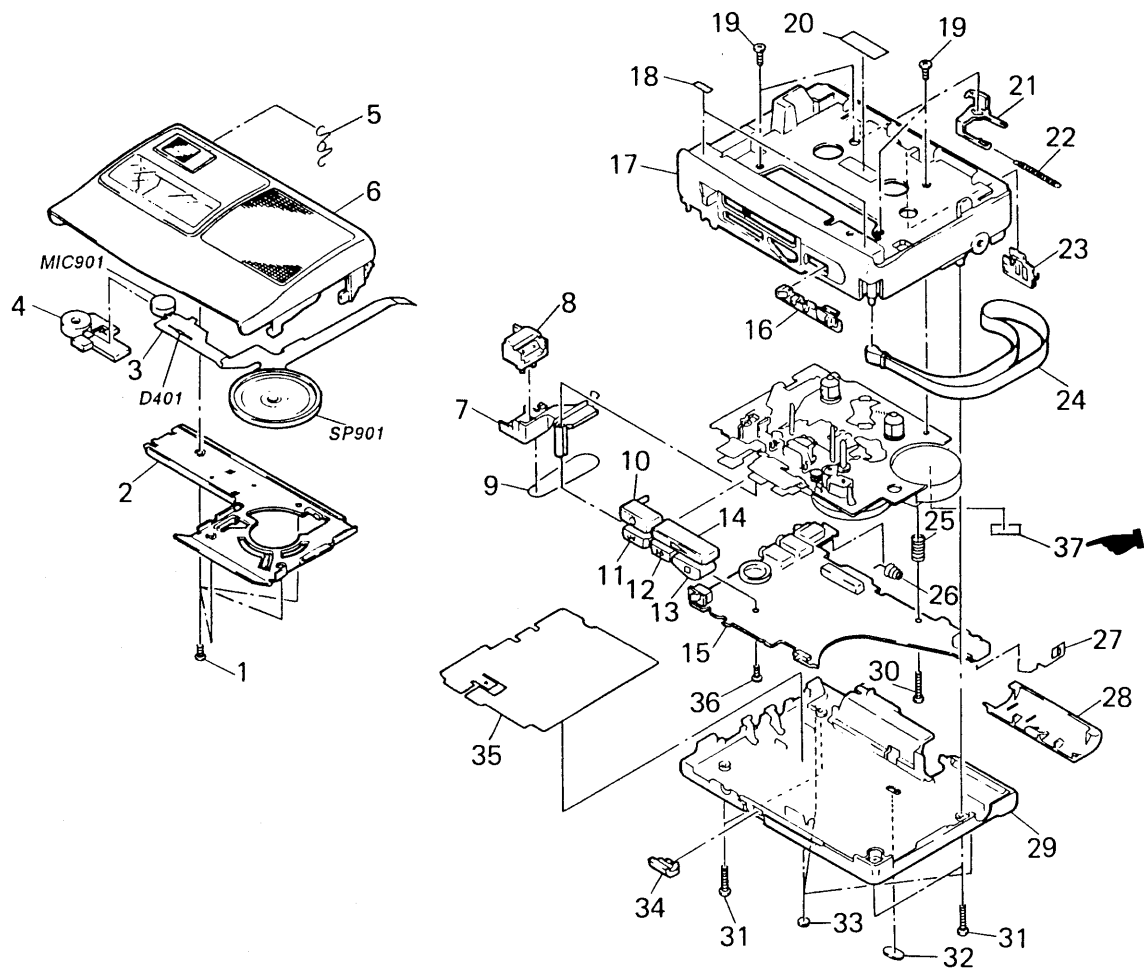
Correct your service manual as shown below.

EXPLODEED VIEWS

Page 9

 : Corrected portion

CABINET SECTION



EXPLODED VIEWS PARTS LIST

Page 9

Ref. No.	Incorrect		Correct	
	Part No.	Description	Part No.	Description
37			*3-386-313-01	CUSHION (BATTERY CASE LID)