

TCM-313/353V/354VK

SERVICE MANUAL

US Model
Canadian Model
(TCM-313/353V/354VK)
AEP Model
UK Model
E Model
(TCM-313/353V)



Photo: TCM-353V

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MT-313-118

SPECIFICATIONS

Recording system

2-track 1 channel monaural

Frequency range

250 - 6,300 Hz

Speaker

Approx. 3.6 cm (1 $\frac{1}{16}$ in.) dia.

Power output

130 mW (at 10 % harmonic distortion)

Input (TCM-353V/354VK)

Microphone input jack (minijack) sensitivity 0.2 mV for 3 kilohms or lower impedance microphone

Output

Earphone jack (minijack) for 8 - 300 ohms earphone

Variable range of the tape speed (TCM-353V/354VK)

from +30% to -20%

Power requirements

- Two size AA (R6) batteries (not supplied): 3V DC
- Two NC-AA rechargeable batteries (1.2 V) (supplied to TCM-354VK)
DC IN 3 V jack accepts:
- Sony AC power adaptor (supplied to TCM-354VK) or AC-E30HG AC power adaptor (not supplied) for use on 120 V AC, 60 Hz
- Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Dimensions (w/h/d) (incl. projecting parts and controls)

TCM-313: Approx. 112 × 91 × 36.5 mm
(4 $\frac{1}{2}$ × 3 $\frac{3}{8}$ × 1 $\frac{1}{16}$ in.)

TCM-353V: Approx. 112 × 91 × 36.5 mm
(4 $\frac{1}{2}$ × 3 $\frac{3}{8}$ × 1 $\frac{1}{16}$ in.)

TCM-354VK: Approx. 112 × 91 × 36.5 mm
(4 $\frac{1}{2}$ × 3 $\frac{3}{8}$ × 1 $\frac{1}{16}$ in.)

Mass (not incl. batteries)

TCM-313: Approx. 170 g (6.0 oz.)

TCM-353V: Approx. 170 g (6.0 oz.)

TCM-354VK: Approx. 170 g (6.0 oz.)

Supplied accessories

- AC power adaptor (1) (TCM-354VK)
- Battery charge adaptor (1) (TCM-354VK)
- Rechargeable batteries (2) (TCM-354VK)

Design and specifications are subject to change without notice.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

CASSETTE-CORDER
SONY®

SECTION 2 DISASSEMBLY

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Flexible Circuit Board Repairing

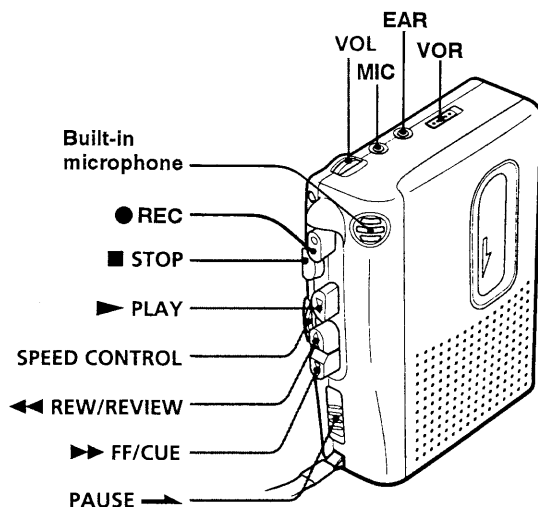
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

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

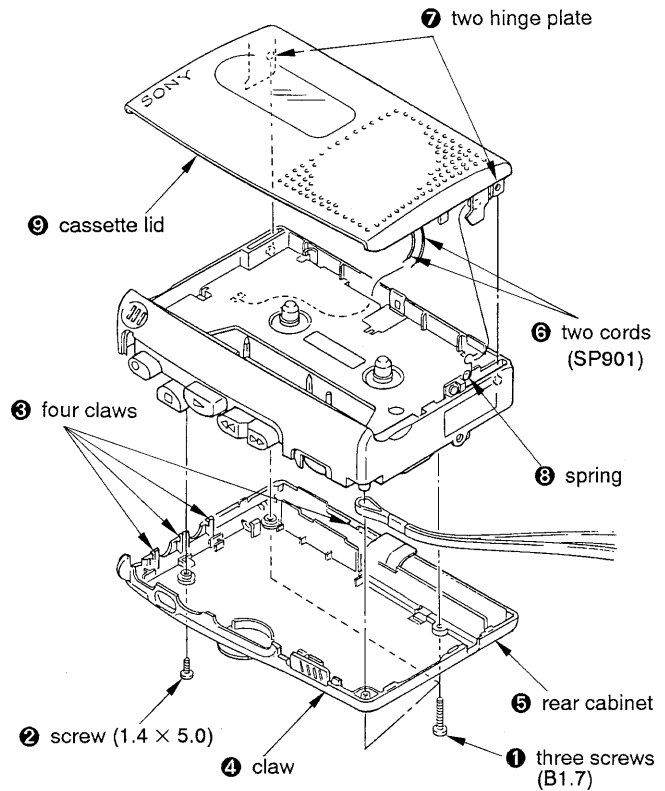
SECTION 1 GENERAL

Parts Identification

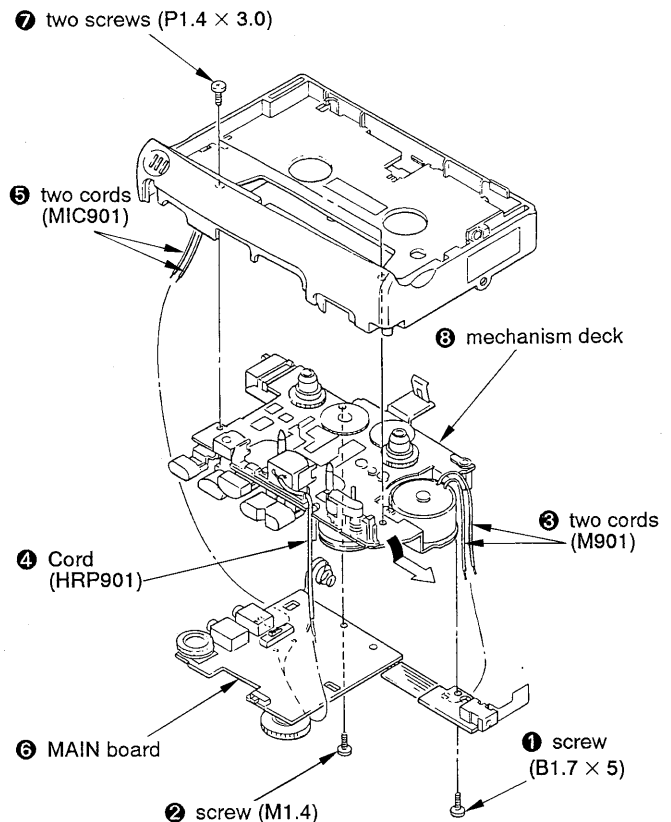


Note: Follow the disassembly procedure in the numerical order given.

REAR CABINET, CASSETTE LID



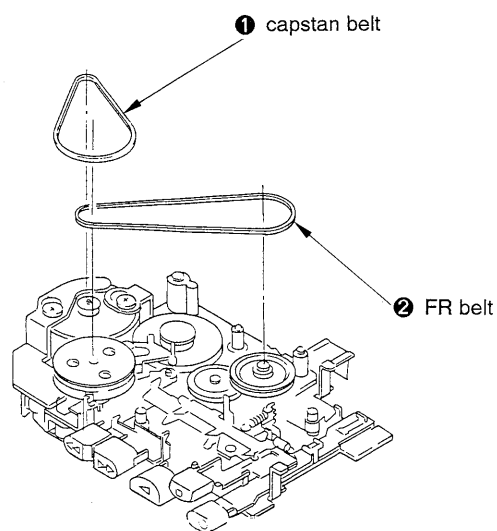
MAIN BOARD, MECHANISM DECK



SECTION 3

MECHANICAL ADJUSTMENTS

BELT



PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
 record/playback head pinch roller
 erase head rubber belts
 capstan idlers
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 (2.5 V) unless otherwise noted.

Torque Measurement

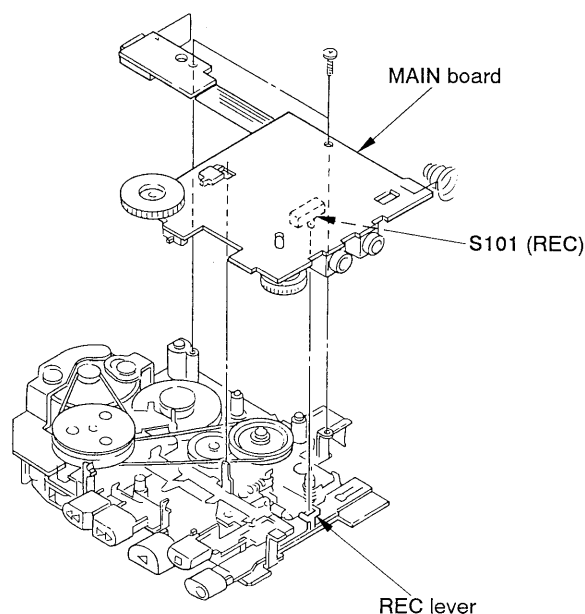
Torque	Torque Meter	Meter Reading
FWD	CQ-102C	more than 20 g•cm (more than 0.28 oz•inch)
Forward Back Tension		0.5 – 3 g•cm (0.007 – 0.04 oz•inch)
FF	CQ-201B	more than 50 g•cm (more than 0.69 oz•inch)
REW		

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g (more than 1.76 oz)

INSTALLATION MAIN BOARD

On installation MAIN board, adjust to the S101 and the REC lever.



SECTION 4 ELECTRICAL ADJUSTMENTS

• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment
P-4-A063	6.3 kHz, - 10 dB	head azimuth adjustment

REC/PB Head Azimuth Adjustment

Setting:

TCM-313

VOL (RV101) : mechanical mid

PAUSE (S601) : off

TCM-353V/354VK

VOL (RV101) : mechanical mid

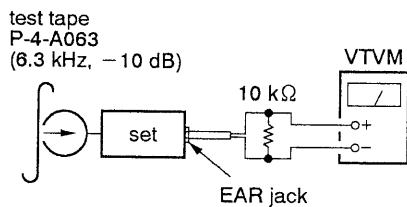
PAUSE (S601) : off

VOR (S501) : off

SPEED CONTROL (RV602): mechanical center

Procedure:

1. Mode: playback

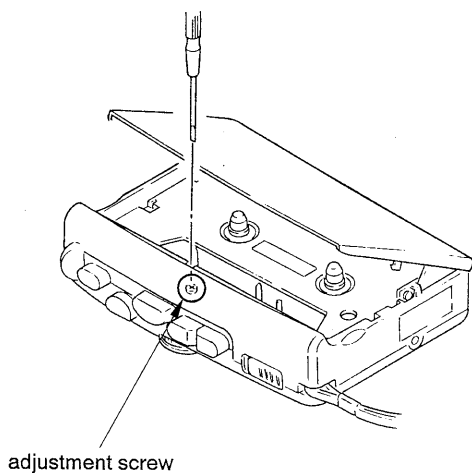


2. Turn the adjustment screw to obtain the maximum reading on VTVM.

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

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

Adjustment Location:



Tape Speed Adjustment

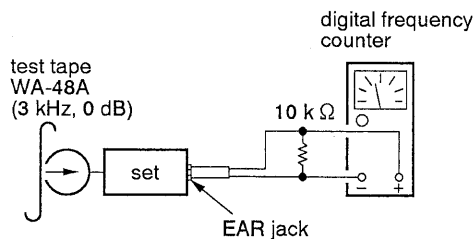
Setting:

TCM-353V/354VK

SPEED CONTROL (RV602) : mechanical center

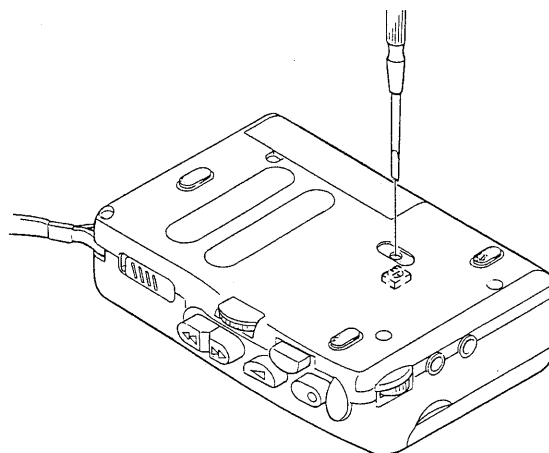
Procedure:

Mode: FWD playback



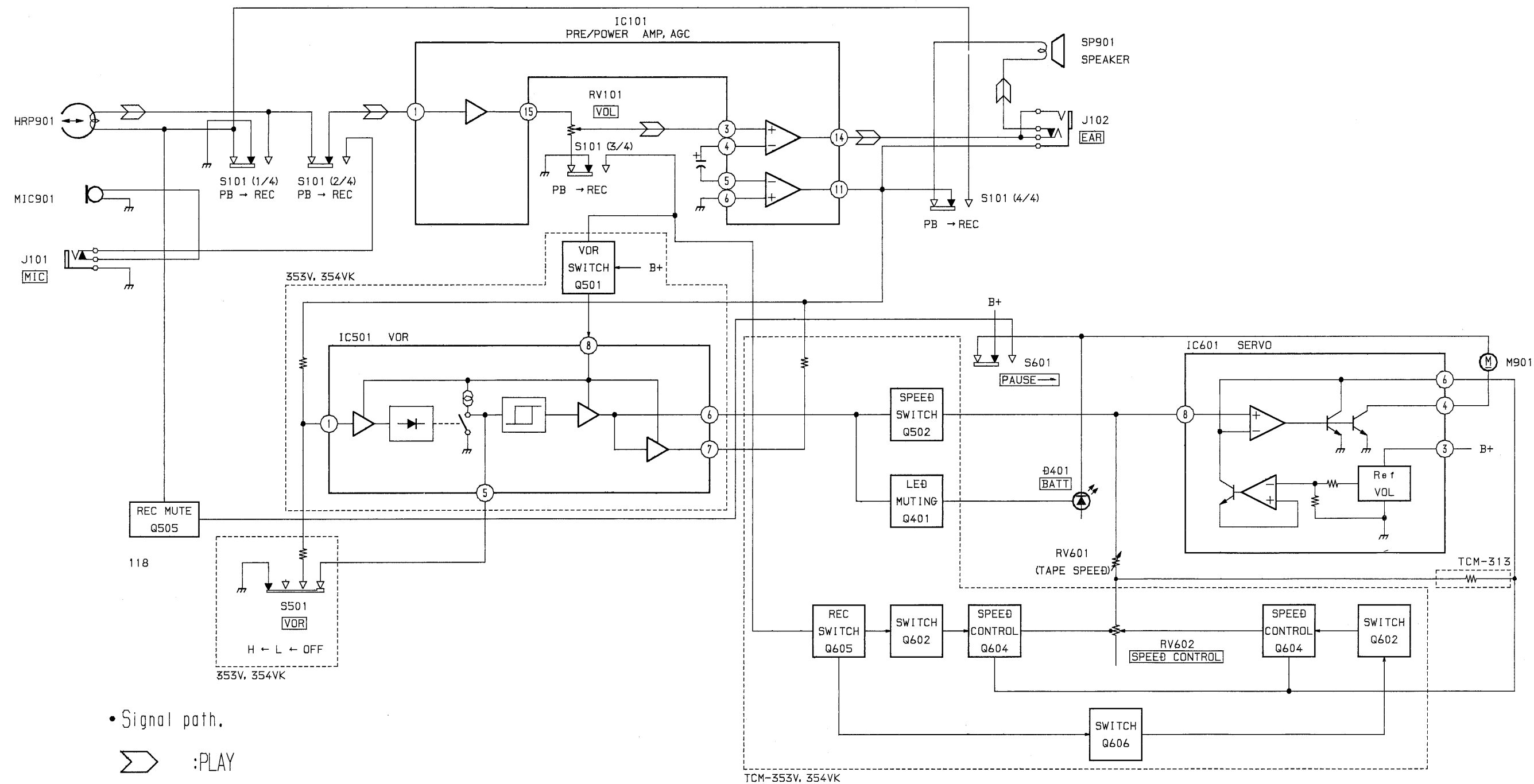
1. Adjust RV601 so that the reading of the frequency counter becomes $3,000 \pm 30$ Hz.

Adjustment Location: MAIN board



SECTION 5 DIAGRAMS

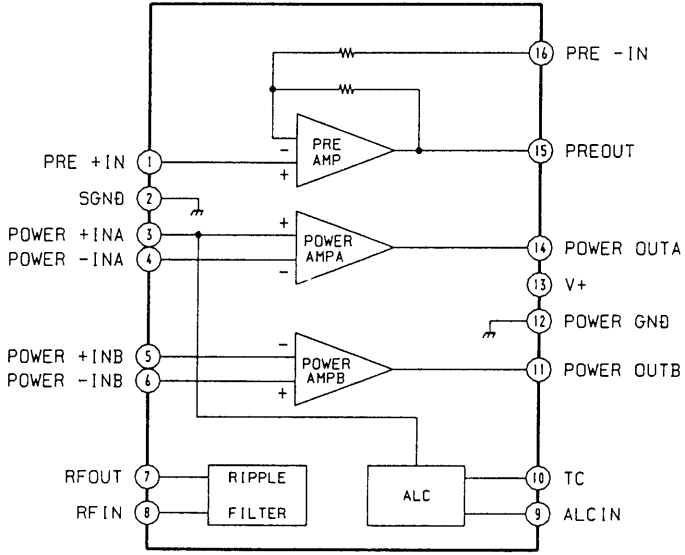
5-1. BLOCK DIAGRAM



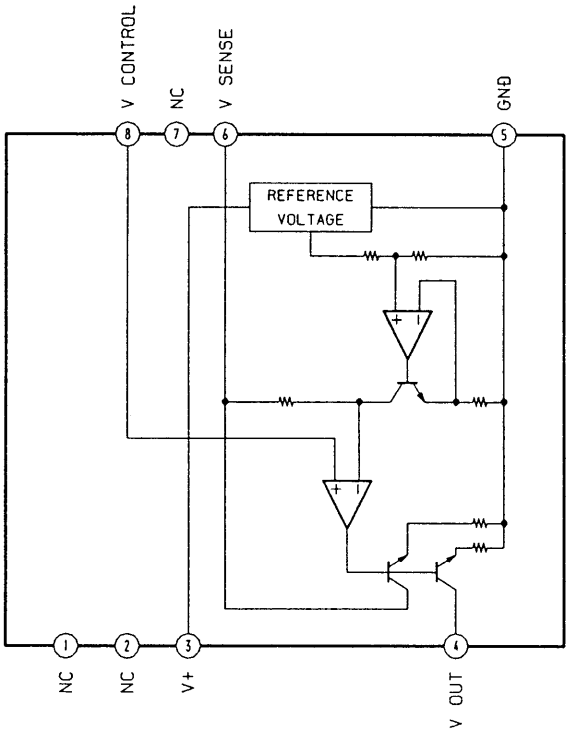
5-2. PRINTED WIRING BOARDS

• IC Block Diagrams

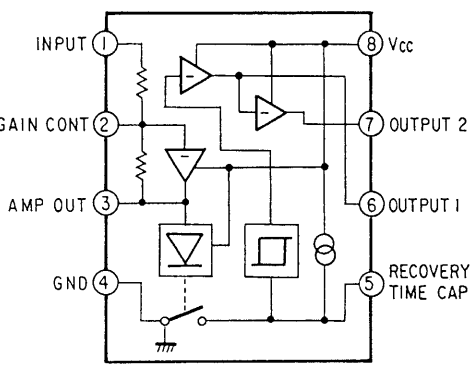
IC101 NJM2128M



IC601 NJM2606AM



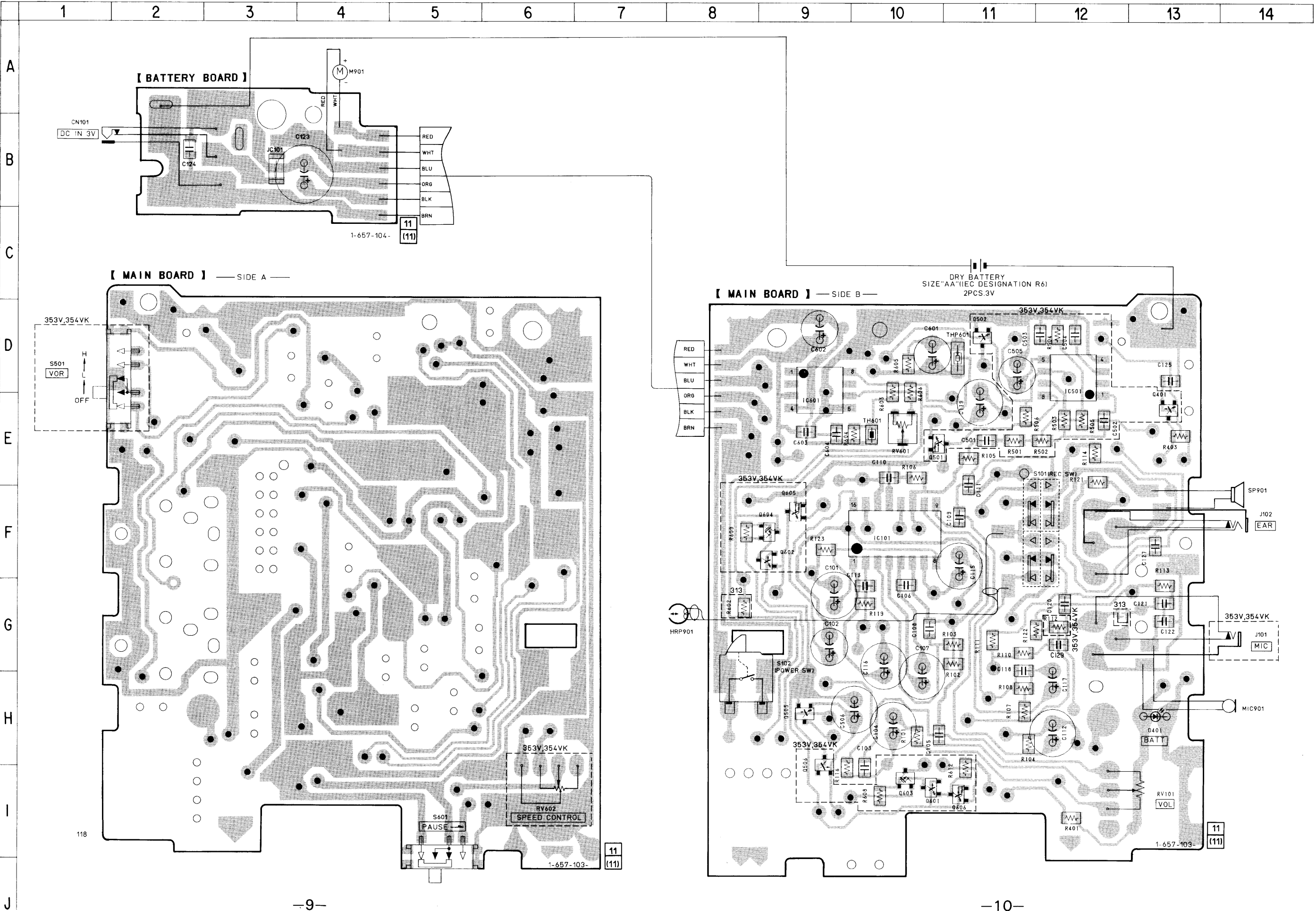
IC501 NJM2072M



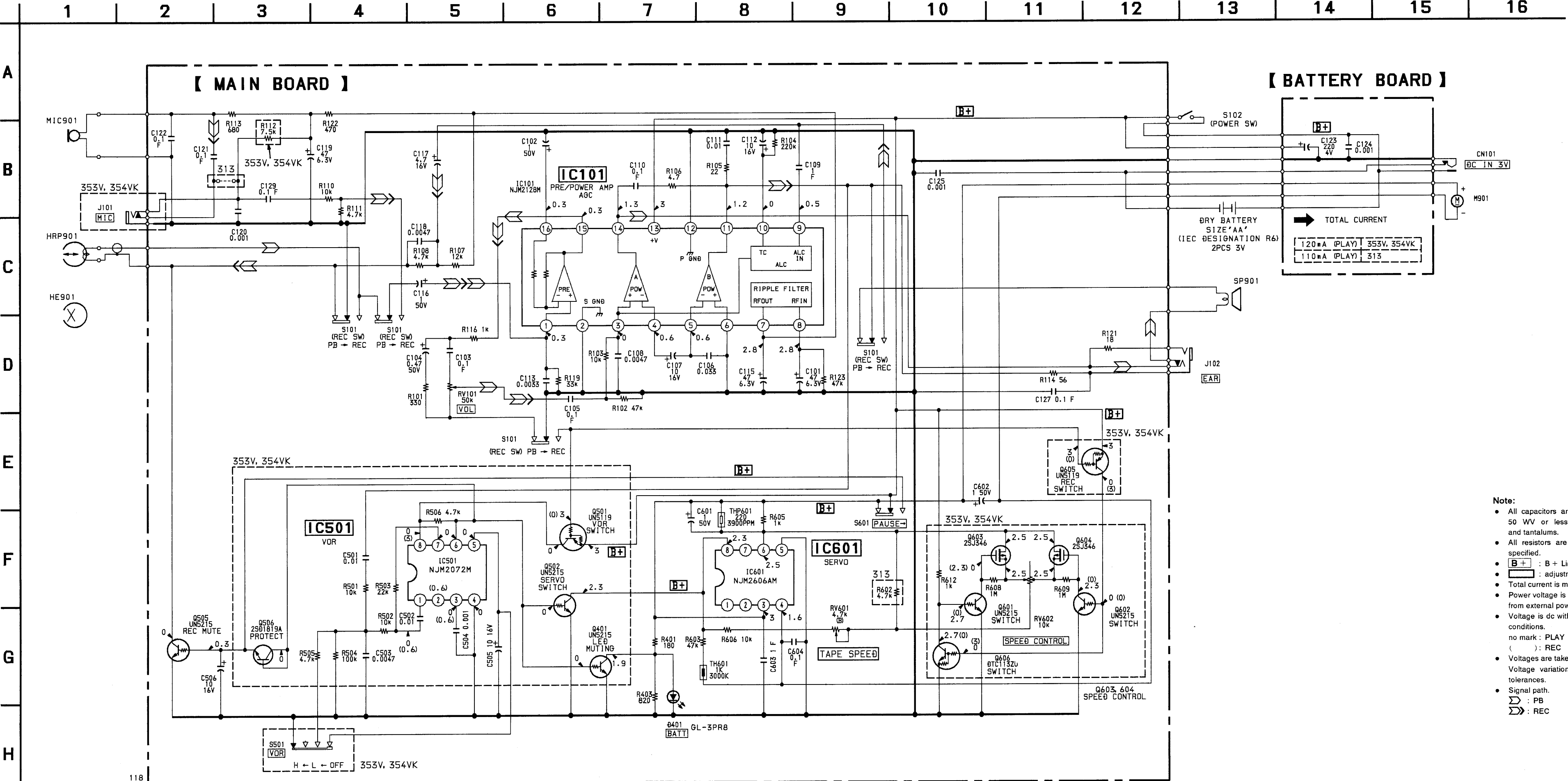
Note:
• : parts extracted from the component side.
• : parts extracted from the conductor side.
• : Through hole.
• : Pattern on the side which is seen. (The other layer's pattern are not indicated.)

• Semiconductor Location

Ref. No.	Location
D401	H-13
IC101	F-10
IC501	D-12
IC601	E-9
Q401	E-13
Q501	E-10
Q502	D-11
Q505	H-9
Q506	H-9
Q601	I-10
Q602	F-9
Q603	I-10
Q604	F-9
Q605	F-9
Q606	I-11



5-3. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- **B+** : B + Line.
- **ADJ** : adjustment for repair.
- Total current is measured with cassette installed.
- Power voltage is dc 3 V and fed with regulated dc power supply from external power voltage jack.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark : PLAY
- () : REC
- Voltages are taken with a VOM (10 M Ω /V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\Rightarrow$: PB
- $\Rightarrow$: REC

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SECTION 6

EXPLODED VIEWS

NOTE:

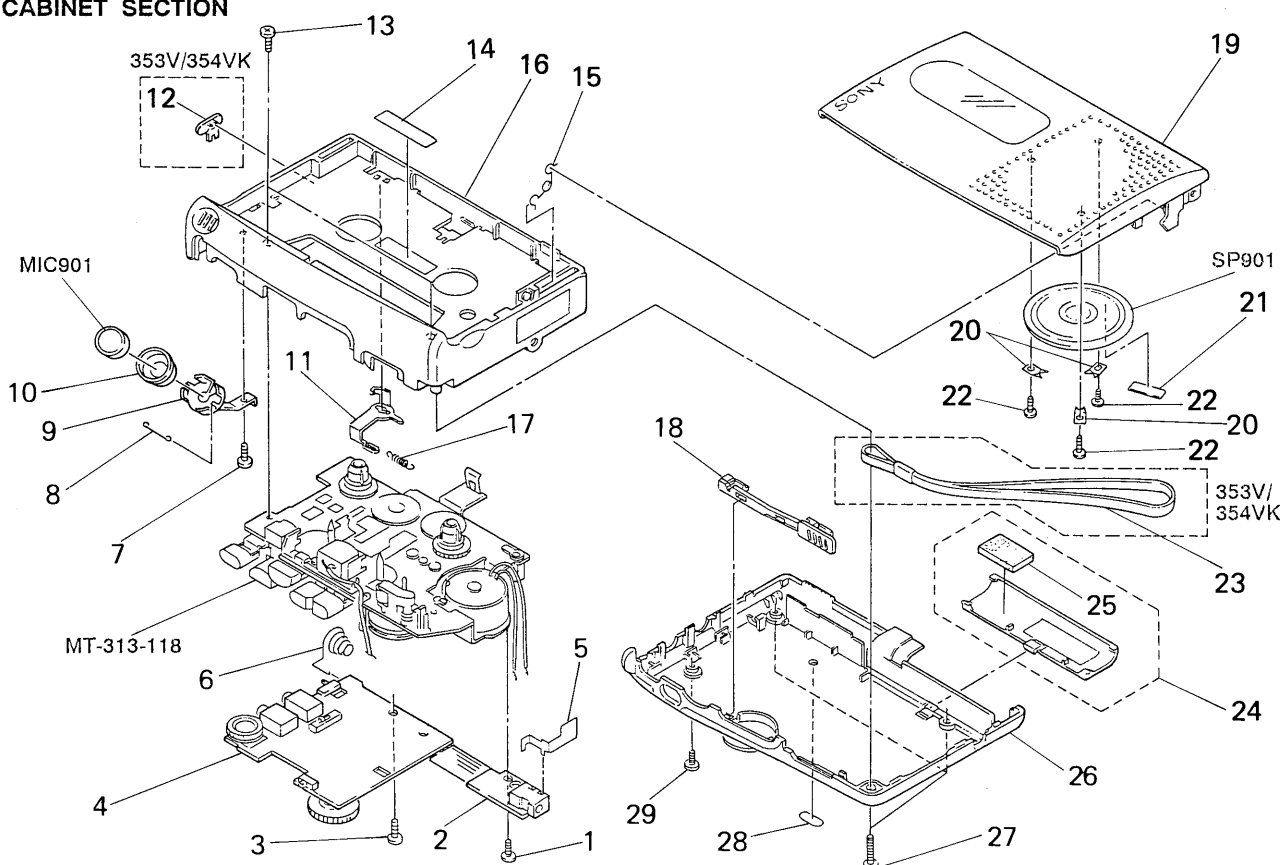
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

Example:
KNOB. B

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

Parts Color	Cabinet's Color
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(1) CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-318-203-71	SCREW (B1. 7X5), TAPPING		16	3-922-965-51	CABINET (FRONT) (353V:E)	
* 2	1-657-104-11	BATT BOARD		16	3-925-031-01	CABINET (FRONT) (TCX929) (354VK)	
3	3-345-648-51	SCREW (M1. 4), TOOTHED LOCK		17	3-924-744-01	SPRING, TENSION	
* 4	A-3016-717-A	MAIN BOARD, COMPLETE (313)		18	3-924-747-01	KNOB (PAUSE)	
* 4	A-3016-720-A	MAIN BOARD, COMPLETE (353V, 354VK)		19	X-3370-421-1	LID SUB ASSY, CASSETTE (354VK)	
5	3-924-741-01	TERMINAL, PLUS		19	X-3370-432-1	LID SUB ASSY, CASSETTE (313)	
6	3-924-750-01	TERMINAL, MINUS		19	X-3370-433-1	LID SUB ASSY, CASSETTE (353V)	
7	3-334-565-41	SCREW (B1. 7), TAPPING		* 20	3-924-757-01	BRACKET	
8	3-924-745-01	BAR, GROUND		21	4-017-441-01	CUSHION (B)	
9	3-924-740-01	HOLDER, MICROPHONE		22	3-318-382-31	SCREW (1. 7), TAPPING	
10	3-924-763-01	CUSHION (MIC)		23	3-924-761-01	STRAP (353V, 354VK)	
11	3-924-743-01	CLAW, ERASING PROTECTION		24	A-3042-738-A	LID ASSY, BATTERY CASE	
12	3-924-742-01	KNOB (VOR) (353V, 354VK)		* 25	3-927-521-01	CUSHION (BATTERY CASE LID)	
13	3-704-245-42	SCREW (P1. 4X3. 0)		26	3-924-748-11	CABINET (REAR) (313)	
14	3-578-101-31	PLATE, ORNAMENTAL		26	3-924-748-21	CABINET (REAR)) 353V, 354VK)	
16	3-925-031-23	CABINET (FRONT) (313: Saudi Arabia)		27	3-334-565-31	SCREW (B1. 7), TAPPING	
15	3-924-739-01	SPRING, CASSETTE		28	3-924-762-01	PLATE, BLIND	
16	3-922-965-01	CABINET (FRONT) (313: US, Canadian)		29	3-704-197-82	SCREW (1. 4X5. 0)	
16	3-922-965-11	CABINET (FRONT) (313: AEP, UK)		MIC901	1-542-136-11	MICROPHONE, ELECTRET CONDENSER	
16	3-922-965-21	CABINET (FRONT) (313: E, Saudi Arabia)		SP901	1-544-657-11	SPEAKER (3. 6CM)	
16	3-922-965-31	CABINET (FRONT) (353V: US, Canadian)					
16	3-922-965-41	CABINET (FRONT) (353V: AEP, UK)					

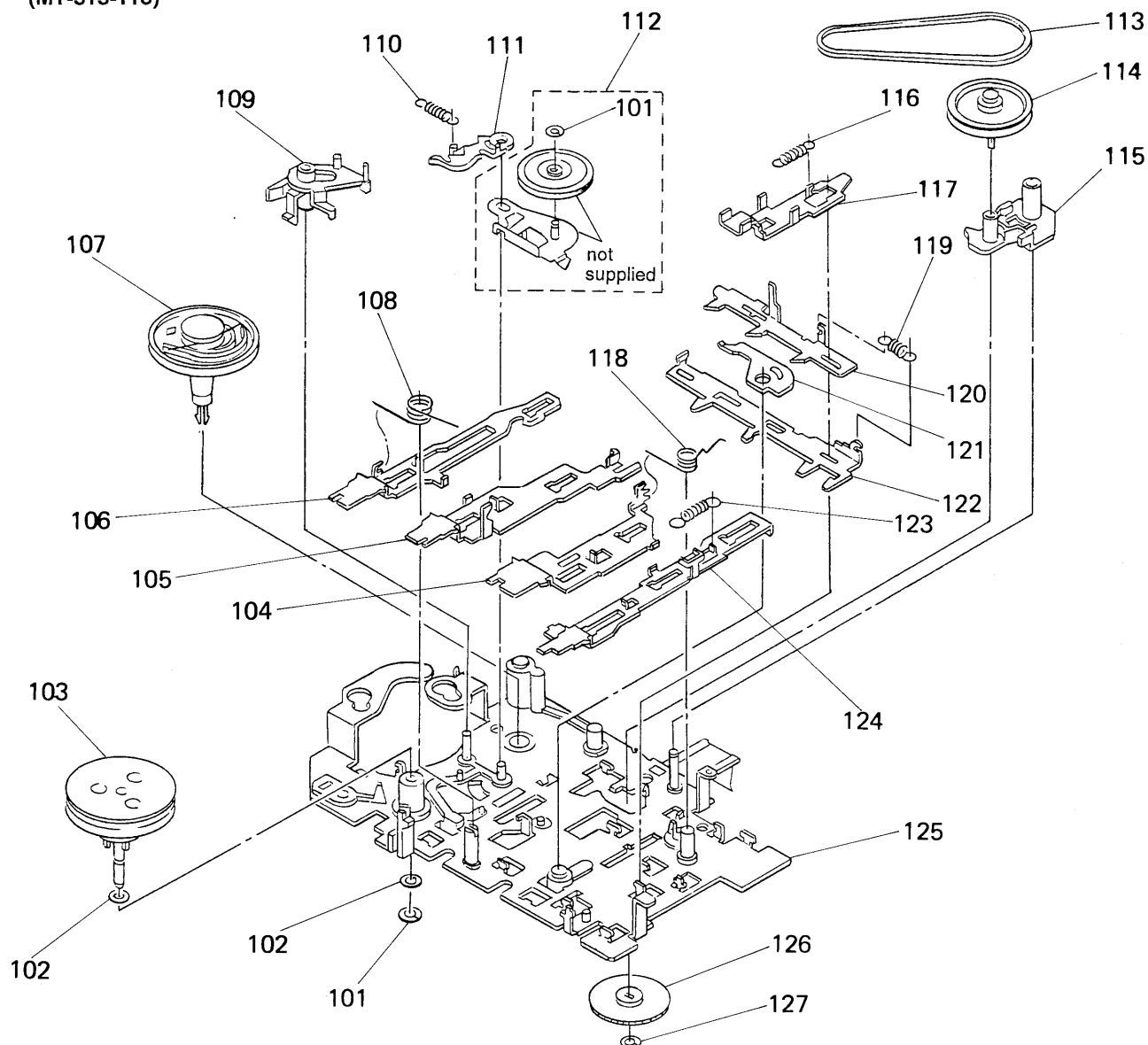
Diagram illustrating the assembly components and their reference numerals:

- 61, 62, 63: Screws for the top bracket assembly.
- HRP901: A bracket component.
- 59, 60, 64: Components of the top bracket assembly.
- 58: A base plate or bracket.
- 65: A circular disc or cap.
- 66, 67: A threaded rod with a nut and washer.
- 68, 69: A threaded rod with a nut and washer.
- 70, M901: A large circular disc or cap.
- 71, 72: A threaded rod with a nut and washer.
- 73: A small screw or pin.
- 57, HE901: A bracket component.
- 56, 55: Components of the bottom bracket assembly.
- 53, 52, 54: Components of the bottom bracket assembly.
- 51: A bracket component, labeled "not supplied".

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(3) MECHANISM DECK SECTION-2
(MT-313-118)



Ref. No.	Part No.	Description	Remark
101	3-321-483-11	RING, RETAINING	
102	3-315-495-31	WASHER	
103	X-3370-384-1	FLYWHEEL ASSY	
104	3-924-623-01	LEVER (PLAY)	
105	3-924-621-01	LEVER (REW)	
106	3-924-620-01	LEVER (FF)	
107	X-3370-388-1	TABLE ASSY, FELT	
108	3-924-642-01	SPRING (FR), TORSION	
109	3-924-629-01	LEVER (DETECTION)	
110	3-925-207-01	SPRING (SHUT-OFF), TENSION	
111	3-924-630-01	LEVER (S-OFF)	
112	X-3370-387-1	LEVER ASSY, IDLER	
113	3-924-682-01	BELT (FR)	
114	X-3370-385-1	PULLEY(FR) ASSY	

Ref. No.	Part No.	Description	Remark
115	3-924-628-01	LEVER (FR)	
116	3-924-633-01	SPRING (STOP), TENSION	
117	3-924-622-01	LEVER (STOP)	
118	3-924-643-01	SPRING (PR), TORSION	
119	3-924-684-01	SPRING (LOCK PLATE), TENSION	
120	3-924-619-01	LEVER (SW)	
121	3-924-639-01	LEVER (CR)	
122	3-924-618-01	LEVER (LOCK)	
123	3-925-208-01	SPRING (REC), TENSION	
124	3-924-624-01	LEVER (REC)	
125	X-3370-227-1	CHASSIS ASSY	
126	3-924-613-01	GEAR (FR)	
127	3-308-472-01	WASHER (C)	

SECTION 7

ELECTRICAL PARTS LIST

BATTERY

MAIN

NOTE:

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

Ref. No.	Part No.	Description	Remark
*	1-657-104-11	BATTERY BOARD *****	
		< CAPACITOR >	
C123	1-124-434-00	ELECT 220uF	20% 4V
C124	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
		< CONNECTOR >	
CN101	1-580-919-11	JACK, DC (POLARITY UNIFIED TYPE) (DC IN 3V)	
		< CONDUCTOR >	
JC101	1-216-296-00	CONDUCTOR, CHIP (3216)	

*	A-3016-717-A	MAIN BOARD, COMPLETE (TCM-313)	
*	A-3016-720-A	MAIN BOARD, COMPLETE (TCM-353V, TCM-354VK)	

		< CAPACITOR >	
C101	1-126-154-11	ELECT 47uF	20% 6.3V
C102	1-126-160-11	ELECT 1uF	20% 50V
C103	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C104	1-124-465-00	ELECT 0.47uF	20% 50V
C105	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C106	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C107	1-126-157-11	ELECT 10uF	20% 16V
C108	1-163-017-00	CERAMIC CHIP 0.0047uF	10% 50V
C109	1-164-346-11	CERAMIC CHIP 1uF	16V
C110	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C111	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C112	1-126-157-11	ELECT 10uF	20% 16V
C113	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V
C115	1-126-154-11	ELECT 47uF	20% 6.3V
C116	1-126-160-11	ELECT 1uF	20% 50V
C117	1-126-163-11	ELECT 4.7uF	20% 50V
C118	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
C119	1-126-154-11	ELECT 47uF	20% 6.3V
C120	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C121	1-163-038-91	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
C122	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C125	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C127	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C129	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C501	1-164-232-11	CERAMIC CHIP 0.01uF	50V (TCM-353V, TCM-354VK)
C502	1-164-232-11	CERAMIC CHIP 0.01uF	50V (TCM-353V, TCM-354VK)
C503	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V (TCM-353V, TCM-354VK)
C504	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V (TCM-353V, TCM-354VK)
C505	1-126-157-11	ELECT 10uF	20% 16V (TCM-353V, TCM-354VK)
C506	1-126-157-11	ELECT 10uF	20% 16V
C601	1-126-160-11	ELECT 1uF	20% 50V
C602	1-126-160-11	ELECT 1uF	20% 50V
C603	1-164-346-11	CERAMIC CHIP 1uF	16V
C604	1-163-038-91	CERAMIC CHIP 0.1uF	25V
		< DIODE >	
D401	8-719-812-41	LED TLR124 (BATT)	
		< IC >	
IC101	8-759-339-54	IC NJM-2128M-TE2	
IC501	8-759-701-51	IC NJM2072M (TCM-353V, TCM-354VK)	
IC601	8-759-345-42	IC NJM2606AM-TE2	
		< JACK >	
J101	1-766-847-11	JACK (MIC) (TCM-353V, TCM-354VK)	
J102	1-766-847-11	JACK (EAR)	
		< TRANSISTOR >	
Q401	8-729-420-50	TRANSISTOR UN5215 (TCM-353V, TCM-354VK)	
Q501	8-729-425-22	TRANSISTOR UN5119-TX (TCM-353V, TCM-354VK)	
Q502	8-729-420-50	TRANSISTOR UN5215 (TCM-353V, TCM-354VK)	
Q505	8-729-420-50	TRANSISTOR UN5215	
Q506	8-729-230-63	TRANSISTOR 2SC4116-YG (TCM-353V, TCM-354VK)	

MAIN

Ref. No.	Part No.	Description	Remark
Q601	8-729-420-50	TRANSISTOR UN5215(TCM-353V, TCM-354VK)	
Q602	8-729-420-50	TRANSISTOR UN5215(TCM-353V, TCM-354VK)	
Q603	8-729-026-30	TRANSISTOR 2SJ346-TE85L (TCM-353V, TCM-354VK)	
Q604	8-729-026-30	TRANSISTOR 2SJ346-TE85L (TCM-353V, TCM-354VK)	
Q605	8-729-425-22	TRANSISTOR UN5119-TX (TCM-353V, TCM-354V)	
Q606	8-729-924-62	TRANSISTOR DTC113ZU (TCM-353V, TCM-354VK)	
< RESISTOR >			
R101	1-216-037-00	METAL CHIP 330 5% 1/10W	
R102	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-105-91	METAL CHIP 220K 5% 1/10W	
R105	1-216-009-00	METAL CHIP 22 5% 1/10W	
R106	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
R107	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R108	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R110	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R111	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R112	1-216-070-00	METAL CHIP 7.5K 5% 1/10W (TCM-353V, TCM-354VK)	
R113	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R114	1-216-019-00	METAL CHIP 56 5% 1/10W	
R116	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R119	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R121	1-216-609-11	METAL GLAZE 18 0.5% 1/10W	
R122	1-216-041-00	METAL CHIP 470 5% 1/10W	
R123	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R401	1-216-031-00	METAL CHIP 180 5% 1/10W	
R403	1-216-051-00	METAL CHIP 1.2K 5% 1/10W(TCM-313)	
R403	1-216-047-00	METAL CHIP 820 5% 1/10W (TCM-353V, TCM-354VK)	
R501	1-216-073-00	METAL CHIP 10K 5% 1/10W (TCM-353V, TCM-354VK)	
R502	1-216-073-00	METAL CHIP 10K 5% 1/10W (TCM-353V, TCM-354VK)	
R503	1-216-081-00	METAL CHIP 22K 5% 1/10W (TCM-353V, TCM-354VK)	
R504	1-216-097-00	METAL CHIP 100K 5% 1/10W (TCM-353V, TCM-354VK)	
R505	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (TCM-353V, TCM-354VK)	
R506	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (TCM-353V, TCM-354VK)	
R602	1-216-065-00	METAL CHIP 4.7K 5% 1/10W(TCM-313)	
R603	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R605	1-216-049-91	METAL GLAZE 1K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R606	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R608	1-216-121-00	METAL CHIP 1M 5% 1/10W (TCM-353V, TCM-354VK)	
R609	1-216-121-00	METAL CHIP 1M 5% 1/10W (TCM-353V, TCM-354VK)	
R612	1-216-049-91	METAL GLAZE 1K 5% 1/10W (TCM-353V, TCM-354VK)	
< VARIABLE RESISTOR >			
RV101	1-223-293-11	RES, VAR, CARBON 50K (VOL)	
RV601	1-223-258-11	RES, ADJ, CERMET 4.7K	
RV602	1-223-928-11	RES, VAR, CARBON(SPEED CONTROL) (TCM-353V, TCM-354VK)	
< SWITCH >			
S101	1-572-964-11	SWITCH, SLIDE (REC SW)	
S102	1-572-688-11	SWITCH, PUSH (1 KEY) (POWER SW)	
S501	1-692-605-11	SWITCH, SLIDE(VOR) (TCM-353V, TCM-354VK)	
S601	1-572-922-11	SWITCH, SLIDE (PAUSE ➡)	
< THERMISTOR >			
TH601	1-808-819-11	THERMISTOR, NTC (2125)	
< THERMISTOR(POSITIVE) >			
THP601	1-810-007-11	THERMISTOR, POSITIVE	

MISCELLANEOUS			

HE901	1-500-232-11	HEAD, MAGNETIC (ERASE)	
HRP901	1-500-073-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M901	1-698-588-11	MOTOR, DC (CAPSTAN)	
MIC901	1-542-136-11	MICROPHONE, ELECTRET CONDENSER	
SP901	1-544-657-11	SPEAKER (3.6CM)	

ACCESSORIES & PACKING MATERIALS			

△	1-528-405-21	ADAPTOR, BATTERY CHARGE (TCM-354VK)	
	1-693-073-21	ADAPTOR, AC (AC-E350) (TCM-354VK)	
	3-798-919-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, SWEDISH) (AEP, UK, E)	
	3-798-919-21	MANUAL, INSTRUCTION (ENGLISH) (US, Canadian)	
	3-798-919-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-798-919-41	MANUAL, INSTRUCTION (GERMAN, ITALIAN, DUTCH, PORTUGUESE) (AEP, UK)	
	3-798-919-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP, UK)	

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

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISED

Ref. No.	Part No.	Description	Remark
	3-798-919-61	MANUAL, INSTRUCTION (Korean)(E)	
	3-798-919-71	MANUAL, INSTRUCTION (ENGLISH, French, Spanosh, Poutugese)(AEP/UK/Saudi Arabia)	
	3-926-480-01	INDIVIDUAL CARTON (TCM-313:AEP, UK)	
	3-926-481-01	INDIVIDUAL CARTON (TCM-313:E)	
	3-926-482-01	INDIVIDUAL CARTON (TCM-313:Saudi Arabia)	
	3-926-496-01	INDIVIDUAL CARTON (TCM-353V:Canadian)	
	3-926-497-01	INDIVIDUAL CARTON (TCM-353V:AEP, UK)	
	3-926-498-01	INDIVIDUAL CARTON (TCM-353V:E)	
	3-926-514-01	INDIVIDUAL CARTON (TCM-354VK:Canadian)	

9-960-197-11
[Including 9-960-197-91]
9-960-197-92]

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