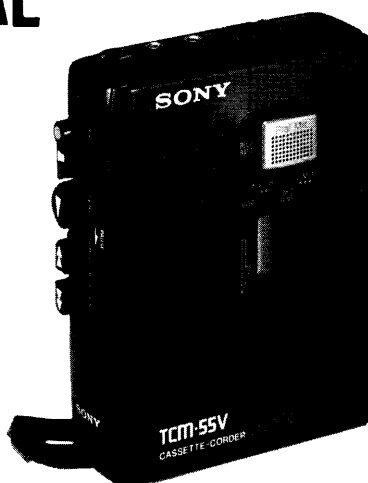


TCM-55V

SERVICE MANUAL

Ver 1.1 2000. 10

AEP Model
E Model



SPECIFICATIONS

Recording system	2-track 1 channel monaural
Frequency response	250 – 8,000 Hz
Speaker	Approx. 3.6 cm (1 7/16 inches) dia.
Power output (DC)	250 mW (at 10% harmonic distortion)
Input	Microphone input jack (minijack) sensitivity 0.22 mV for 3 kΩ or lower impedance microphone.
Output	Earphone jack (minijack) for 8 – 300Ω earphone
Power requirements	3 V DC, two R6 (size AA) batteries DC IN 3 V jack accepts: AEP Model : • Sony AC-E30M AC power adaptor (not supplied) for use on 220V AC, 50Hz. E Model : • Sony AC-E30AL AC power adaptor (not supplied) for use on 120/220V AC, 50/60Hz. • Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

Battery life (hours)

Battery	Recording	Playback
Sony battery SUM-3 (NS)	Approx. 3 hours	Approx. 2.5 hours
Sony alkaline battery AM3 (N)	Approx. 12 hours	Approx. 9 hours

Dimensions	Approx. 87.9 × 112.4 × 36 mm (w/h/d) (3 1/2 × 4 1/2 × 1 7/16 inches) incl. projecting parts and controls
Weight	Approx. 240 g (8.5 oz) incl. batteries
Supplied accessory	Carrying case (1)

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 Directives 87/308/EEC regarding interference suppression.

Model Name Using Similar Mechanism Set	NEW
Tape Transport Mechanism Set	MT-55-101

FEATURES

- **VOR system** economizes tapes, batteries and playback time.
- **Quick Review function** for playing back the just recorded sound.
- **Sony Boundary Effect system microphone** for picking up the speaker's voice more clearly at a conference.
- **Zero Stop Counter function** enables the tape to automatically stop while rewinding at a previously marked section where the TAPE COUNTER has been set to "000".
- **Pause Release function** for automatically releasing the pause switch with the ■ STOP button while the unit is in the pause mode to capture recording chances.

What is VOR (Voice Operated Recording) System?

With this system, recording starts only when the sound is picked up and stops automatically when the sound is no longer detected.

Note on the AC power adaptor

Use only the AC-E30M/E30AL AC power adaptor (not supplied). Do not use any other AC power adaptor.

Polarity of the plug

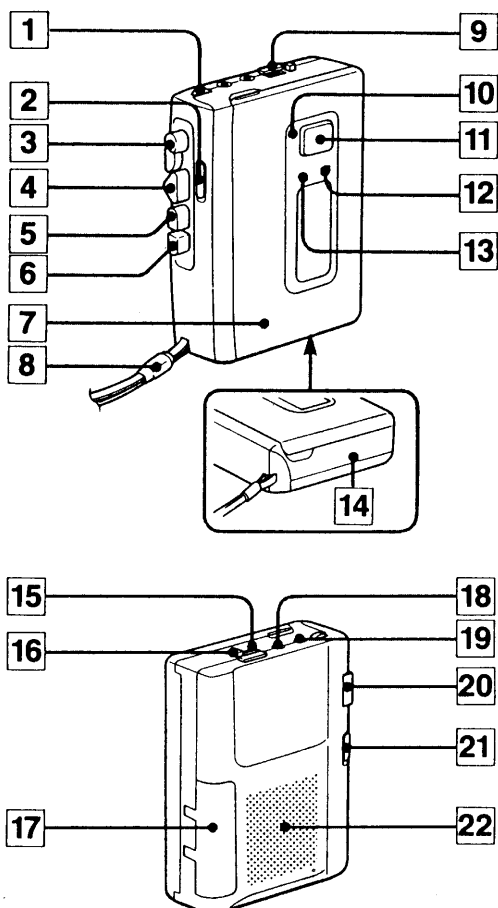


CASSETTE-CORDER
SONY®

SECTION 1 GENERAL

This section is extracted from instruction manual.

• PARTS IDENTIFICATION



- | | |
|---|--|
| 1 VOL (volume) control | 14 DC IN 3 V (external power input) jack |
| 2 PAUSE switch | 15 TAPE COUNTER |
| 3 ● REC (record) button | 16 COUNTER reset button |
| 4 ▼ PLAY (playback) button | 17 Battery compartment |
| 5 ▲ REW (rewind)/REVIEW button | 18 EAR (earphone) jack |
| 6 ▼ FF (fast forward)/CUE button | 19 MIC (PLUG IN POWER) jack |
| 7 Cassette compartment lid | 20 ■ STOP button |
| 8 Handstrap | 21 SPEED CONTROL (SLOW/NORM/FAST) switch |
| 9 ZERO STOP (ON/OFF) switch | 22 Speaker |
| 10 REC/BATT (record/battery) indicator | |
| 11 Flat Mic (built-in microphone) | |
| 12 MIC SENS (microphone sensitivity) (L/M/H) switch | |
| 13 VOR (Voice Operated Recording) (ON/OFF) switch | |

4

5

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 2 MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- 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	26 – 36g•cm (0.37 – 0.49oz•inch)	CQ-102C
Fast Forward and Rewind	more than 60g•cm (0.84oz•inch)	CQ-201B
Back Tension	2 – 4g•cm (0.028 – 0.055oz•inch)	CQ-102C

Tape Tension Measurement

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

SECTION 3 ELECTRICAL ADJUSTMENTS

3-1. TAPE RECORDER SECTION

• Test Tape

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

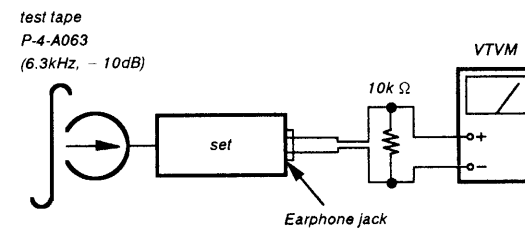
Record/Playback Head Azimuth Adjustment

Setting :

VOLUME Control (RV101) : mechanical mid
 Tape Speed (S601) : normal
 PAUSE (S103) : OFF
 MIC Sense (S102) : H
 VOR (S501) : OFF
 ZERO STOP (S401) : OFF

Procedure :

- Mode : playback

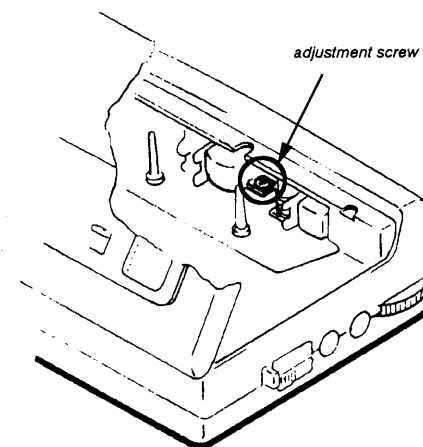


- Turn the adjustment screw to obtain the maximum reading on VTVM.

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

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

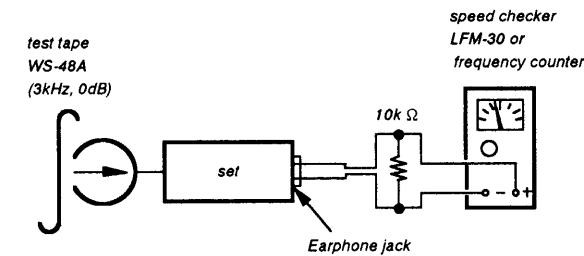
Adjustment Location :



Tape Speed Adjustment

Procedure :

Mode : playback

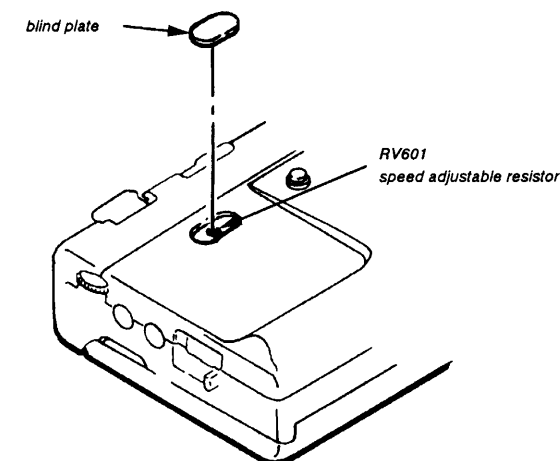


Adjustment Value :

Speed checker	Frequency counter
± 1%	2,970 – 3,030Hz

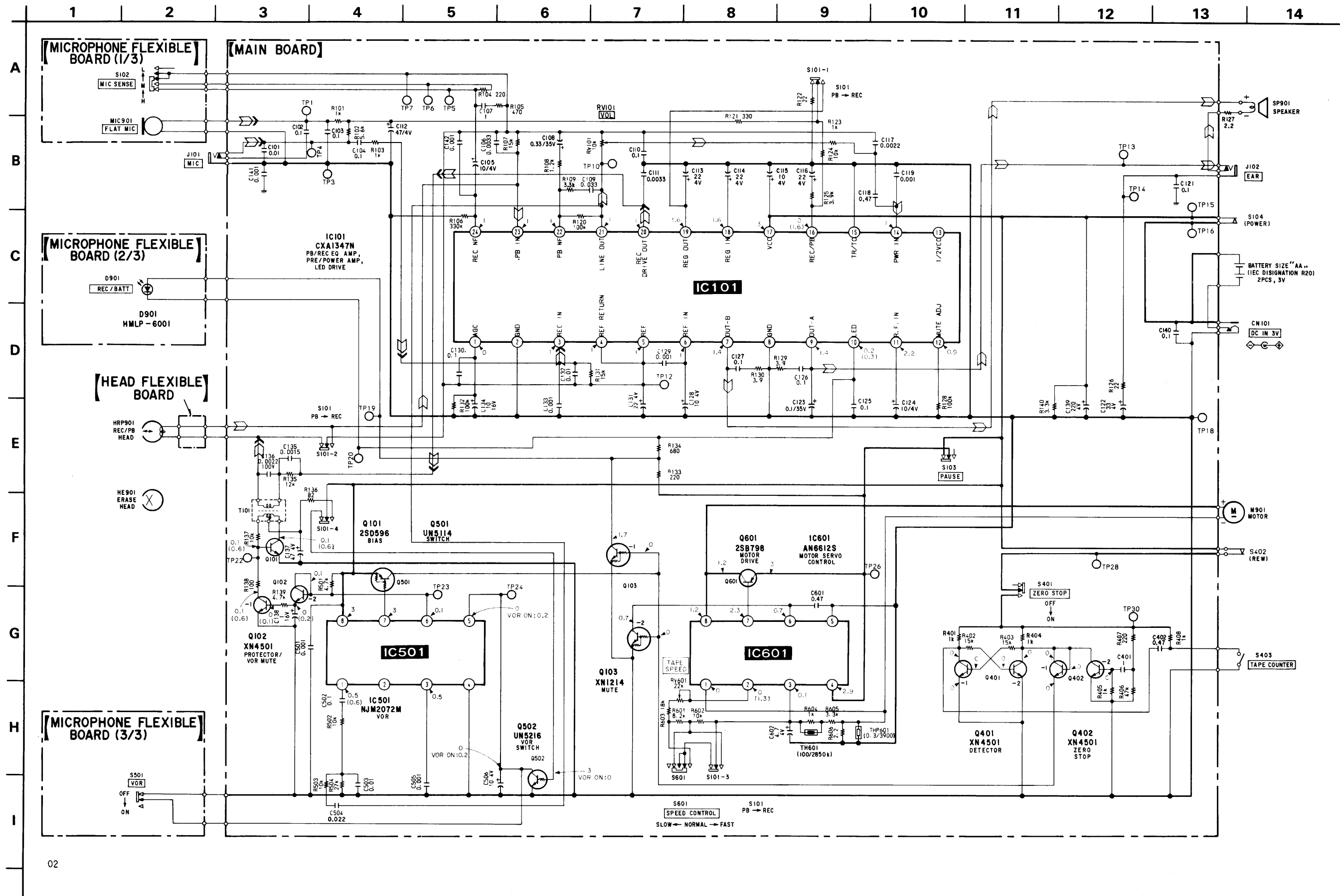
Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

Adjustment Location :



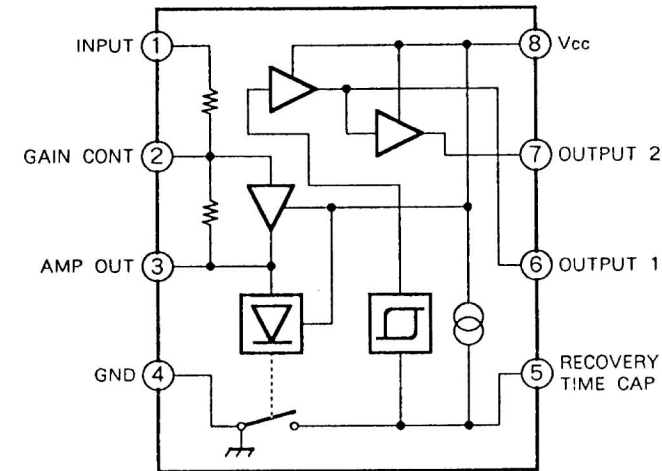
SECTION 4 DIAGRAMS

4-1. SCHEMATIC DIAGRAM • Refer to page 9 for note. • Refer to page 10 for IC Block Diagrams.

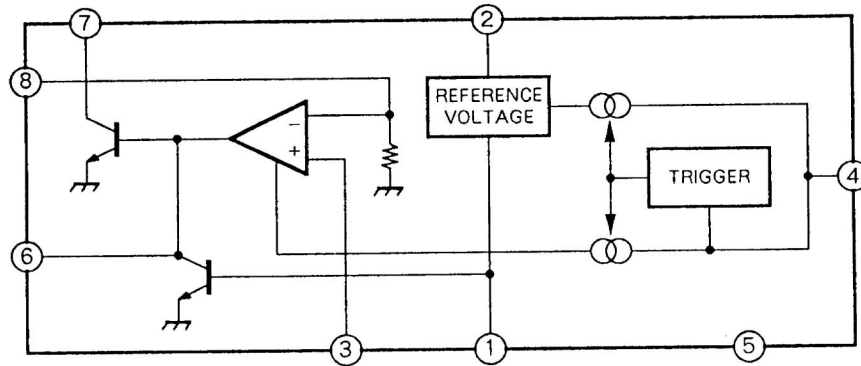


• IC BLOCK DIAGRAMS

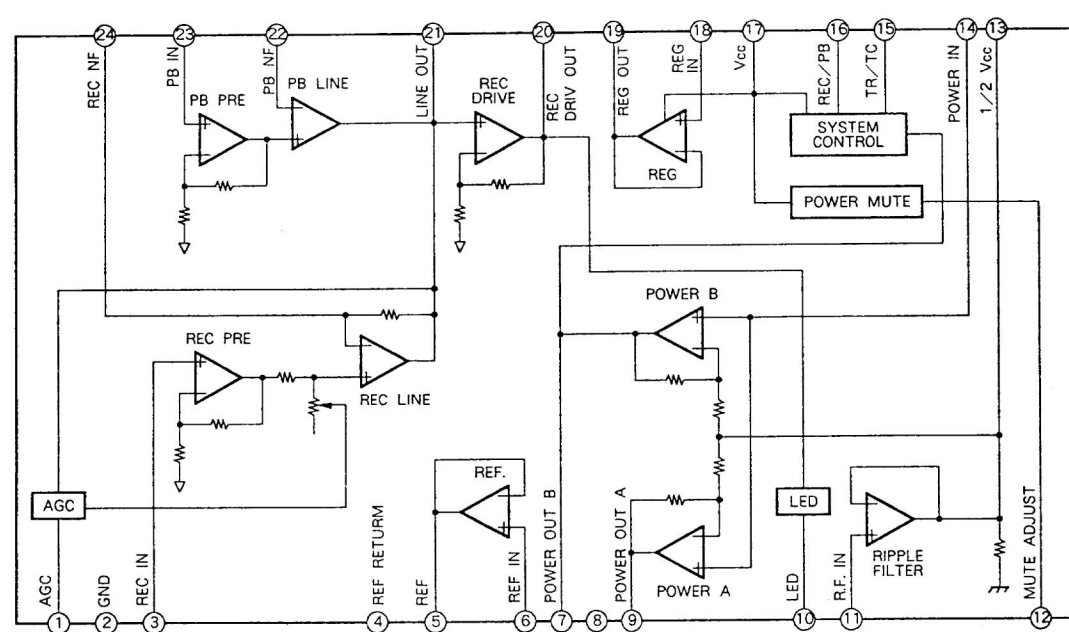
IC501 NJM2072M



IC601 AN6612S



IC101 CXA1347N

SECTION 5
EXPLODED VIEWS

NOTE:

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

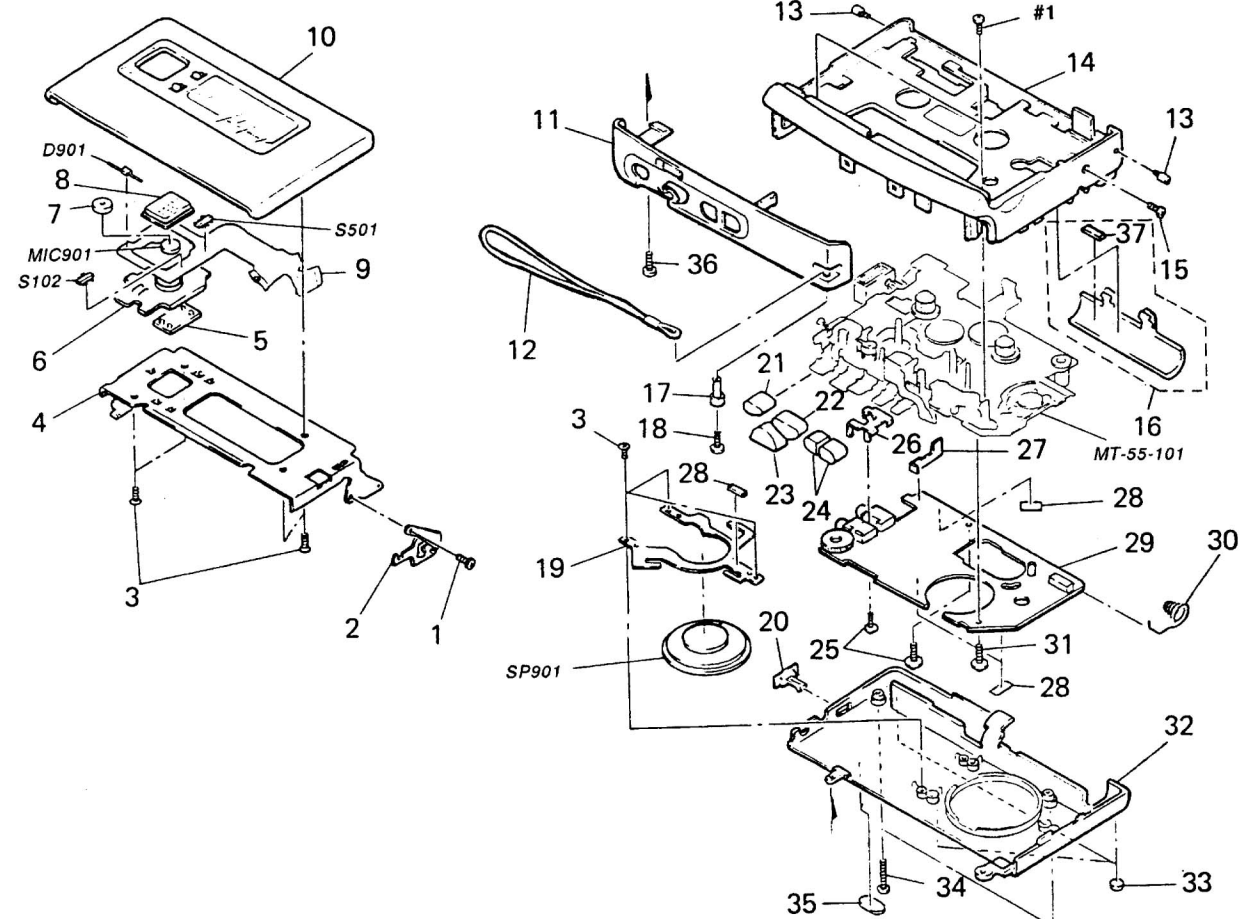
- Color indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE)....(RED)

Parts color

Cabinet's color

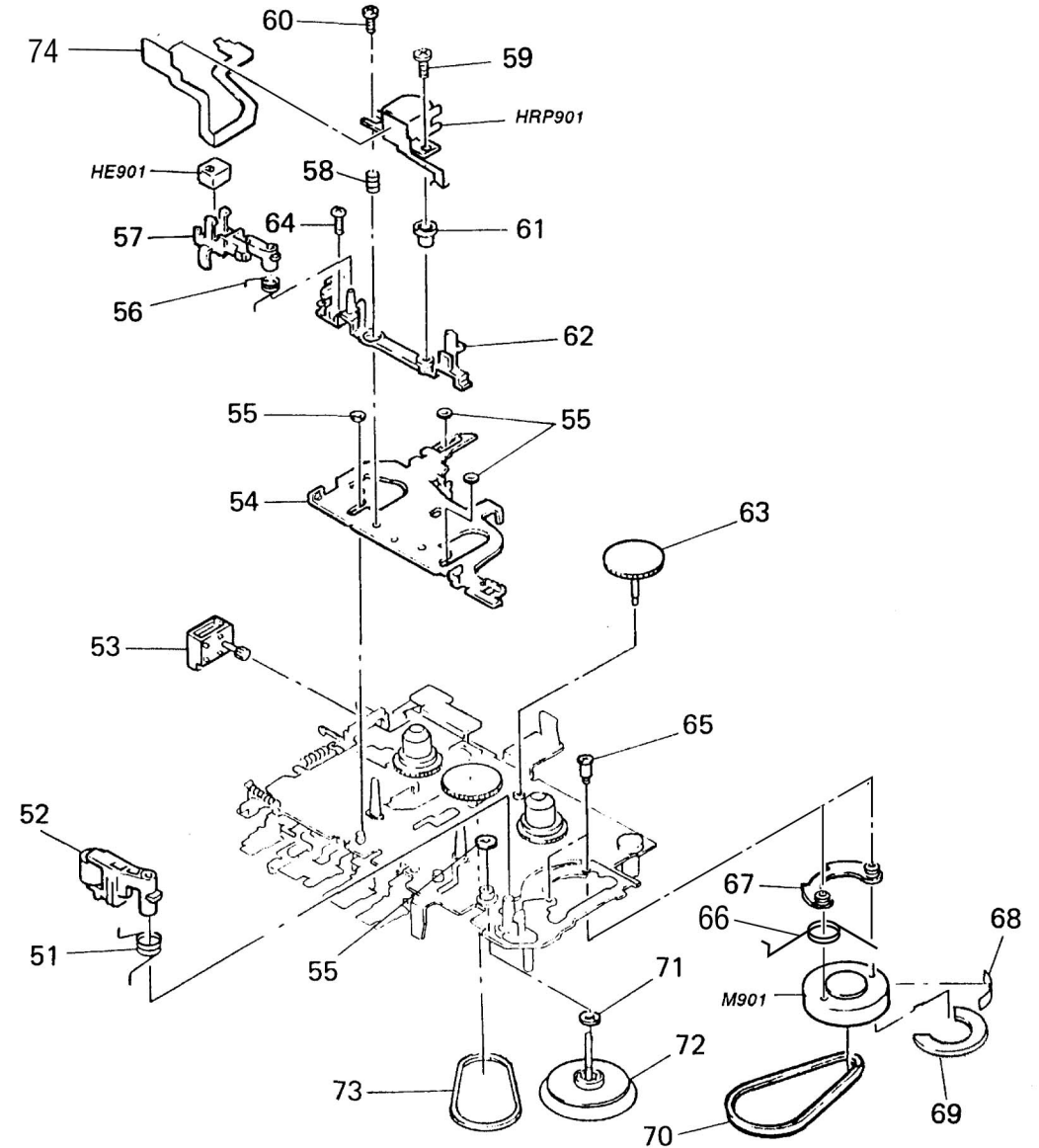
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

5-1. MAIN SECTION



Ref.No.	Part No.	Description	Remark
1	3-311-772-11	SHAFT (A), STOPPER	
2	X-3363-570-1	TOGGLE ASSY	
3	3-318-382-01	SCREW (1.7X3), TAPPING	
* 4	3-371-828-01	BRACKET (CASSETTE HOLDER)	
5	3-371-827-01	HOLDER (MICROPHONE PANEL B)	
* 6	3-371-826-01	HOLDER (MICROPHONE CUSHION)	
* 7	3-372-900-01	CAP, MICROPHONE	
8	X-3363-569-1	PANEL ASSY, MICROPHONE	
9	1-641-528-11	PC BOARD, MICROPHONE FLEXIBLE	
10	X-3363-732-2	LID ASSY, CASSETTE	
11	X-3363-731-2	CABINET (CONTROL PANEL) ASSY	
12	3-371-849-01	STRAP, HAND	
13	3-315-989-11	SCREW, ORNAMENTAL	
14	X-3363-730-2	CABINET (FRONT) ASSY	
15	3-704-245-42	SCREW (P1.4X3.0)	
16	X-3363-575-1	LID ASSY, BATTERY CASE	
17	3-357-509-01	SCREW (+B) (1.7), TAPPING	
* 18	3-372-901-01	COLLAR	
* 19	3-371-842-01	BRACKET (SPK)	
20	3-371-843-01	KNOB (ZERO STOP)	
21	3-371-829-01	BUTTON (REC)	

Ref.No.	Part No.	Description	Remark
22	3-371-830-01	BUTTON (PLAY)	
23	3-371-841-01	BUTTON (STOP)	
24	3-371-840-01	BUTTON (FF/REW)	
25	3-703-502-31	SCREW	
* 26	X-3363-574-1	HOLDER ASSY, JACK	
27	3-371-845-01	TERMINAL BOARD, BATTERY	
28	3-831-441-XX	CUSHION	
* 29	A-3016-119-A	MAIN BOARD, COMPLETE	
30	3-371-846-01	SPRING, BATTERY COIL	
31	3-318-203-71	SCREW (B1.7X5), TAPPING	
32	X-3363-729-2	CABINET (REAR) ASSY	
33	3-331-603-01	FOOT	
34	3-334-565-11	SCREW (B1.7X10), TAPPING	
35	3-342-155-11	PLATE, BLIND	
36	3-704-197-82	SCREW (M1.4X5.0), LOCKING	
37	9-911-815-01	CUSHION, MICROPHONE	
D901	8-719-023-18	LED HLMP-6001 (REC/BATT)	
MIC901	1-542-124-31	MICROPHONE, ELECTRET CONDENSER	
S102	1-571-506-41	SWITCH, SLIDE (MIC SENS)	
S501	1-571-275-31	SWITCH, SLIDE (VOR)	
SP901	1-544-581-11	SPEAKER	

5-2. MECHANISM SECTION-1
(MT-55-101)

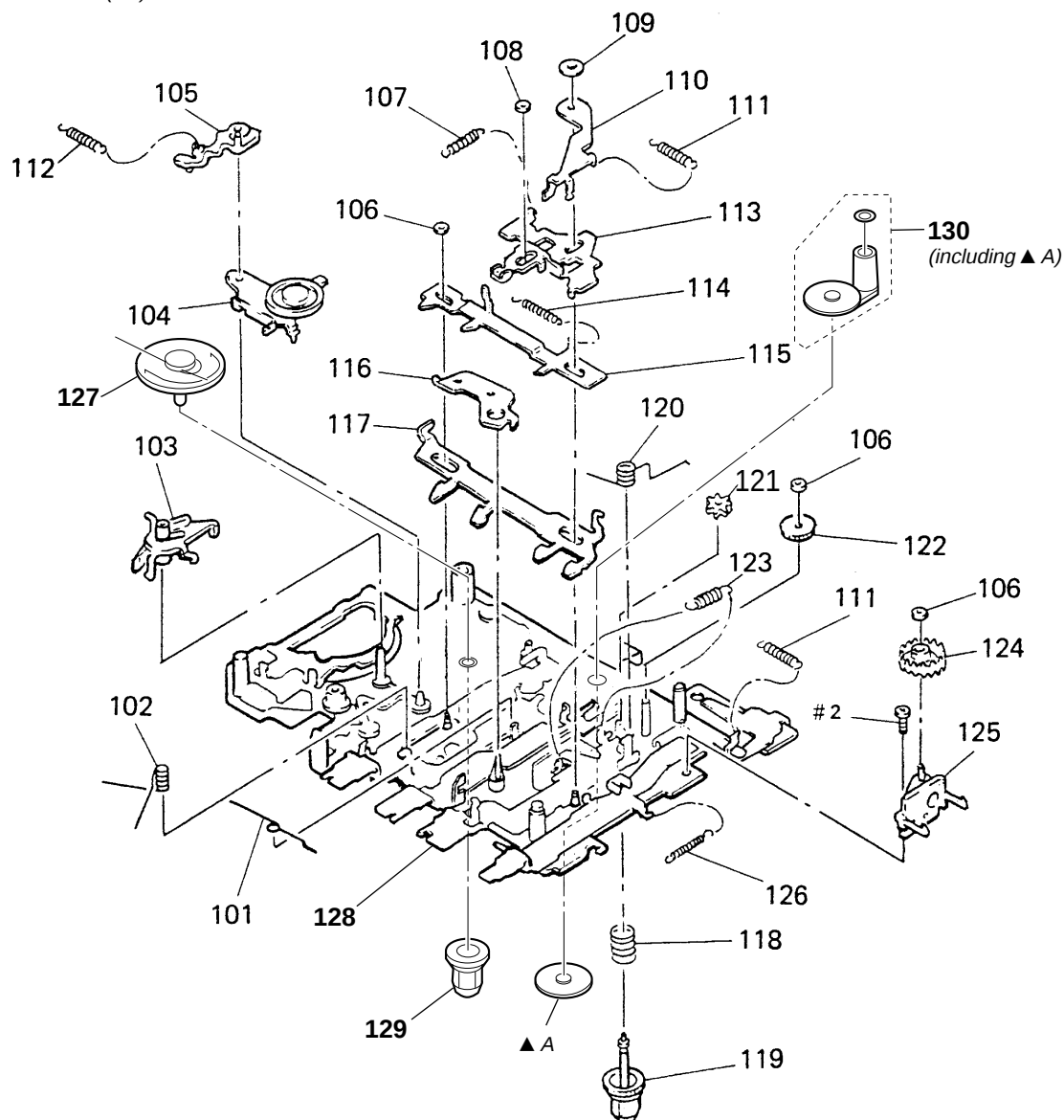
Ref.No.	Part No.	Description	Remark
51	3-371-822-01	SPRING (PINCH LEVER), TORSION	
52	X-3363-573-1	PINCH ROLLER ASSY	
53	1-548-614-11	COUNTER, TAPE (SMALL TYPE)	
* 54	3-371-838-01	LEVER (HEAD)	
55	3-321-483-11	RING, RETAINING	
56	3-371-873-01	SPRING (E HEAD), TORSION	
57	3-371-851-01	BRACKET (E HEAD)	
58	3-371-882-01	SPRING (AZIMUTH), COMPRESSION	
59	3-376-177-01	SCREW (M1.4X3.8)	
60	3-375-135-01	SCREW (1.4), SPECIAL	
61	3-375-045-01	COLLAR (HEAD)	
62	3-371-839-01	BRACKET (HEAD)	
63	3-371-854-01	GEAR (FF)	

Ref.No.	Part No.	Description	Remark
64	3-704-197-91	SCREW (M1.4X1.8), LOCKING	
65	3-371-886-01	SCREW (MOTOR), STEP	
66	3-374-119-02	SPRING (GROUND), TORSION	
* 67	3-371-885-01	CUSHION, MOTOR	
68	3-831-441-XX	CUSHION	
* 69	3-372-991-01	DAMPER	
70	3-371-868-01	BELT (FR)	
71	3-701-437-41	WASHER	
72	X-3363-571-1	WHEEL ASSY (ZNDC), CAPSTAN	
73	3-371-869-01	BELT (CAPSTAN)	
74	1-641-529-11	PC BOARD, REC/PB HEAD FLEXIBLE	
HE901	8-658-096-02	HEAD, ERASE EBF5-36 (ERASE)	
HRP901	1-500-073-11	HEAD, MAGNETIC (REC/PB)	
M901	1-541-921-11	MOTOR	

5-3. MECHANISM SECTION-2

(MT-55-101)

▲ A : GEAR (FR)



Ref.No.	Part No.	Description	Remark
101	3-371-871-01	SPRING (IDLER), TORSION	
102	3-371-872-01	SPRING (FR), TORSION	
* 103	3-371-863-01	LEVER (DETECTION)	
104	X-3363-568-1	LEVER ASSY, IDLER	
* 105	3-371-864-01	LEVER (SHUT OFF)	
106	3-321-483-11	RING, RETAINING	
107	3-907-947-01	SPRING (STOP LEVER), TENSION	
108	3-371-883-01	WASHER (STOP LEVER)	
109	3-371-884-01	WASHER (P-S-R)	
* 110	3-371-859-01	LEVER (PAUSE RELEASE)	
111	3-371-876-01	SPRING, TENSION	
112	3-371-877-01	SPRING, TENSION	
* 113	3-371-855-01	LEVER (STOP)	

Ref.No.	Part No.	Description	Remark
114	3-371-875-01	SPRING, TENSION	
* 115	3-371-857-01	LEVER (SW)	
* 116	3-371-858-01	LEVER, CR	
* 117	3-371-856-01	PLATE, LOCK	
118	3-371-881-01	SPRING (B.T), COMPRESSION	
119	3-371-866-01	GEAR (S REEL)	
120	3-907-942-01	SPRING (PLAY LEVER), TORSION	
121	3-371-850-01	GEAR (COUNTER S)	
122	3-371-867-01	GEAR (MIDWAY)	
123	3-371-874-01	SPRING (POWER TENSION), TENSION	
124	3-371-853-01	GEAR (FACE)	
125	3-371-852-01	BRACKET (COUNTER)	
126	3-371-878-01	SPRING, TENSION	
127	X-3363-576-1	TABLE ASSY, FELT	
* 128	X-3369-449-1	CHASSIS ASSY	
129	3-371-865-01	GEAR (T REEL)	
130	X-3371-100-1	PULLEY (FR) ASSY	

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

Ref.No.	Part No.	Description	Remark
*	A-3016-119-A	MAIN BOARD, COMPLETE *****	
	3-703-502-31	SCREW	
		< CAPACITOR >	
C101	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C102	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C103	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C104	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V
C105	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C106	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V
C107	1-164-346-11	CERAMIC CHIP 1uF	16V
C108	1-135-073-00	TANTALUM CHIP 0.33uF	10% 35V
C109	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C110	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C111	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V
C112	1-126-607-11	ELECT CHIP 47uF	20% 4V
C113	1-135-202-21	TANTAL. CHIP 22uF	20% 4V
C114	1-135-202-21	TANTAL. CHIP 22uF	20% 4V
C115	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C116	1-135-202-21	TANTAL. CHIP 22uF	20% 4V
C117	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C118	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C119	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C121	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C122	1-126-207-11	ELECT CHIP 33uF	20% 4V
C123	1-135-070-00	TANTALUM CHIP 0.1uF	10% 35V
C124	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C125	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C126	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C127	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C128	1-128-014-11	ELECT CHIP 10uF	0 4V
C129	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V

Ref.No.	Part No.	Description	Remark
C130	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C131	1-135-202-21	TANTAL. CHIP 22uF	20% 4V
C132	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C133	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C134	1-124-779-00	ELECT CHIP 10uF	20% 16V
C135	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V
C136	1-163-213-00	CERAMIC CHIP 0.0022uF	5% 50V
C137	1-126-607-11	ELECT CHIP 47uF	20% 4V
C138	1-135-091-00	TANTALUM CHIP 1uF	20% 16V
C139	1-126-246-11	ELECT CHIP 220uF	20% 4V
C140	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C141	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C142	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C401	1-164-346-11	CERAMIC CHIP 1uF	16V
C402	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C501	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C502	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C503	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C504	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C505	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C506	1-128-014-11	ELECT CHIP 10uF	0 4V
C601	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C602	1-135-151-21	TANTALUM CHIP 4.7uF	20% 4V
		< CONNECTOR >	
CN101	1-580-372-11	JACK, OUTER POWER (DC IN 3V)	
		< IC >	
IC101	8-752-034-90	IC CXA1347N	
IC501	8-759-701-51	IC NJW2072M	
IC601	8-759-400-12	IC AN6612S	

MAIN

Ref.No.	Part No.	Description	Remark
< JACK >			
J101	1-563-319-21	JACK (MIC)	
J102	1-563-319-21	JACK (EAR)	
< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR4	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR5	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR6	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR7	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR8	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR9	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR10	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR11	1-216-295-00	METAL CHIP 0 5% 1/10W	
< TRANSISTOR >			
Q101	8-729-141-75	TRANSISTOR 2SD596DV345	
Q102	8-729-402-81	TRANSISTOR XN4501	
Q103	8-729-420-16	TRANSISTOR XN1214	
Q401	8-729-402-81	TRANSISTOR XN4501	
Q402	8-729-402-81	TRANSISTOR XN4501	
Q501	8-729-402-96	TRANSISTOR UN5114	
Q502	8-729-421-26	TRANSISTOR UN5216	
Q601	8-729-101-07	TRANSISTOR 2SB798-DL	
< RESISTOR >			
R101	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R102	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R103	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R104	1-216-813-11	METAL CHIP 220 5% 1/16W	
R105	1-216-817-11	METAL CHIP 470 5% 1/16W	
R106	1-216-851-11	METAL CHIP 330K 5% 1/16W	
R107	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R108	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R109	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
R120	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R121	1-216-815-11	METAL CHIP 330 5% 1/16W	
R122	1-216-801-11	METAL CHIP 22 5% 1/16W	
R123	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R124	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R125	1-216-828-11	METAL CHIP 3.9K 5% 1/16W	
R126	1-216-801-11	METAL CHIP 22 5% 1/16W	
R127	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R128	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R129	1-216-792-11	METAL GLAZE 3.9 5% 1/16W	
R130	1-216-792-11	METAL GLAZE 3.9 5% 1/16W	

Ref.No.	Part No.	Description	Remark
R131	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R132	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R133	1-216-813-11	METAL CHIP 220 5% 1/16W	
R134	1-216-819-11	METAL CHIP 680 5% 1/16W	
R135	1-216-834-11	METAL CHIP 12K 5% 1/16W	
R136	1-216-808-11	METAL CHIP 82 5% 1/16W	
R137	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R138	1-216-809-11	METAL CHIP 100 5% 1/16W	
R139	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R140	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
R401	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R402	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R403	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R404	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R405	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R406	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R407	1-216-813-11	METAL CHIP 220 5% 1/16W	
R408	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R501	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R502	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R503	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R504	1-216-838-11	METAL CHIP 27K 5% 1/16W	
R601	1-216-832-11	METAL CHIP 8.2K 5% 1/16W	
R602	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R603	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R604	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R605	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
R606	1-216-789-11	METAL CHIP 2.2 5% 1/16W	
< VARIABLE RESISTOR >			
RV101	1-241-583-11	RES, VAR, CARBON 10K/10K (VOL)	
RV601	1-238-665-11	RES, ADJ, CERMET 22K (TAPE SPEED)	
< SWITCH >			
S101	1-572-214-11	SWITCH, SLIDE (REC/PB)	
S103	1-571-275-31	SWITCH, SLIDE (PAUSE)	
S104	1-572-288-11	SWITCH, PUSH (POWER)	
S401	1-571-275-31	SWITCH, SLIDE (ZERO STOP)	
S402	1-572-288-11	SWITCH, PUSH (REW)	
S403	1-548-614-11	COUNTER, TAPE (SMALL TYPE)(TAPE COUNTER)	
S601	1-571-506-41	SWITCH, SLIDE (SPEED CONTROL)	
< TRANSFORMER >			
T101	1-433-286-11	TRANSFORMER, BIAS OSCILLATION	
< THERMISTOR >			
TH601	1-809-545-11	THERMISTOR	

MAIN

Ref.No.	Part No.	Description	Remark
		< THERMISTOR(POSITIVE) >	
THP601	1-809-342-11	THERMISTOR, POSITIVE	
		< FLAT CABLE >	
* W101	1-569-352-11	HOUSING, CONNECTOR 10P	

		MISCELLANEOUS	

9	1-641-528-11	PC BOARD, MICROPHONE FLEXIBLE	
74	1-641-529-11	PC BOARD, REC/PB HEAD FLEXIBL	
D901	8-719-023-18	LED HLMP-6001 (REC/BATT)	
HE901	8-658-096-02	HEAD, ERASE EBF5-36 (ERASE)	
HRP901	1-500-073-11	HEAD, MAGNETIC (REC/PB)	
M901	1-541-921-11	MOTOR	
MIC901	1-542-124-31	MICROPHONE, ELECTRET CONDENSER	
SP901	1-544-581-11	SPEAKER	

		ACCESSORIES & PACKING MATERIALS	

	3-371-848-01	CASE, CARRYING	
*	3-373-550-01	CUSHION	
*	3-373-552-01	INDIVIDUAL CARTON	
	3-754-100-11	MANUAL, INSTRUCTION	
		(ENGLISH/FRENCH/GERMAN/SPANISH)	
	3-754-100-41	MANUAL, INSTRUCTION	
		(DUTCH/SWEDISH/ITALIAN/PORTUGUESE) (AEP)	

		HARDWARE LIST	

#1	7-627-850-58	SCREW,PRECISION +P 1.4X3.5	