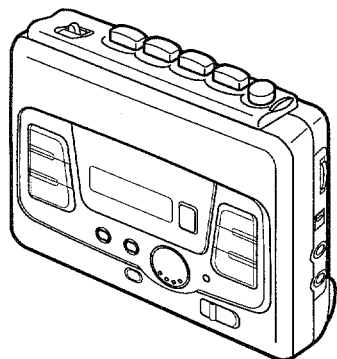


aiwa



HS-JS475



STEREO RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM: 7ZM-5 R2N

• TYPE: YU, YJ, YH, YZ

SPECIFICATIONS

Frequency range:

YU:
 AM : 530/531 – 1,710/1,602 kHz
 (10/9 kHz step)
 531 – 1,629 kHz (9 kHz step)
 FM1, FM2 : 87.5/87.5 – 108.1/108 MHz
 (200/50 kHz step)
 76 – 108 MHz (100 kHz step in
 76 – 90 MHz, 50 kHz step in
 90 – 108 MHz)

YJ, YH, YZ:
 AM : 531/530 – 1,602/1,710 kHz
 (9/10 kHz step)
 FM1, FM2 : 87.5/87.5 – 108/108.1 MHz
 (50/200 kHz step)

Maximum output: 20 mW + 20 mW (EIAJ/16Ω)
 15 mW + 15 mW (EIAJ/32Ω)

Power source: Battery DC 3V, size AA (R6) X 2
YU, YJ, YH:
 Domestic AC power (using optional AC
 adaptor: AIWA AC – 620/AC – 302)
YZ:
 Domestic AC power (using optional AC
 adaptor: AIWA AC – 300 / AC – 302)

Battery life:

EIAJ, 1 mW output, playback:
 Approx. 5 hours using R6P (size AA)
 manganese batteries
 Approx. 22 hours using LR6 (size AA)
 alkaline batteries

EIAJ, recording:
 Approx. 3.5 hours using R6P (size AA)
 manganese batteries
 Approx. 13 hours using LR6 (size AA)
 alkaline batteries

**Maximum dimensions
 (W x H x D):**

**Weight
 (excluding batteries):**

114.6 x 88.1 x 36.4 mm
 (4⁵/₈ x 3¹/₂ x 1⁷/₈ inches)
 Approx. 188.3 g (6.6 oz)

• Design and specifications are subject to change without notice.

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

ACCESSORIES / PACKAGE LIST

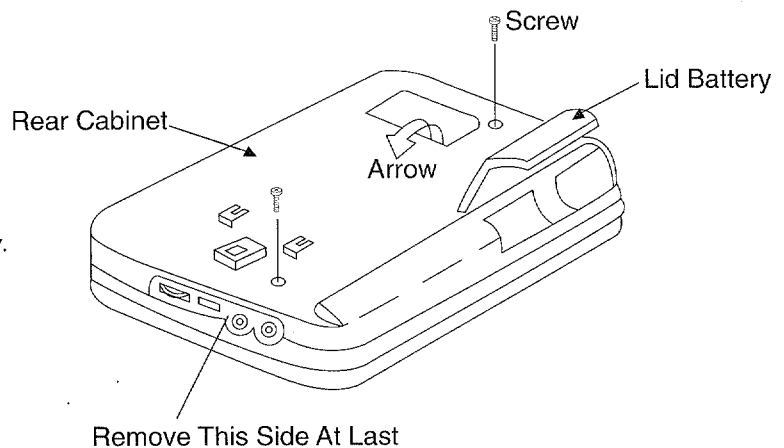
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ6-903-010	IB, Y (EGI) <YZ>	
1	87-HJ6-902-010	IB, Y (ESF) <YZ>	
1	87-HJ6-904-010	IB, YJ (ESC) <YH, YJ>	
1	87-HJ6-901-010	IB, YU (ESF) <YU>	
2	84-447-019-310	CLIP, BELT	
3	87-041-083-110	MIC, CM-S40A	
4	87-B30-042-010	HEADPHONE, HP-24NSH <YH, YJ, YZ>	
4	87-B30-081-010	HEADPHONE, HP-M009 (S) <YU>	

DISASSEMBLY INSTRUCTIONS

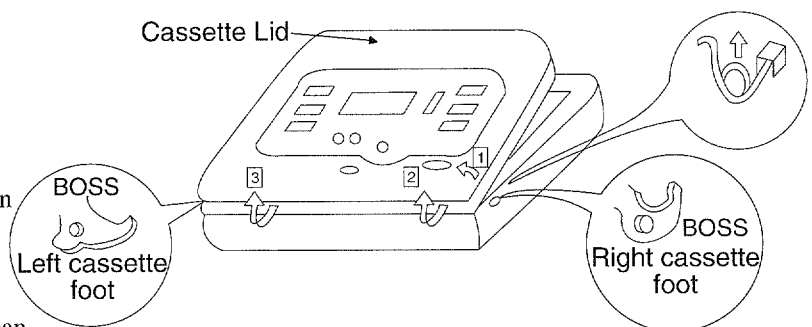
1. REMOVAL OF THE REAR CABINET

- 1) Remove 2 screws and open the lid battery.
- 2) Lift the Rear Cabinet in the arrow direction.



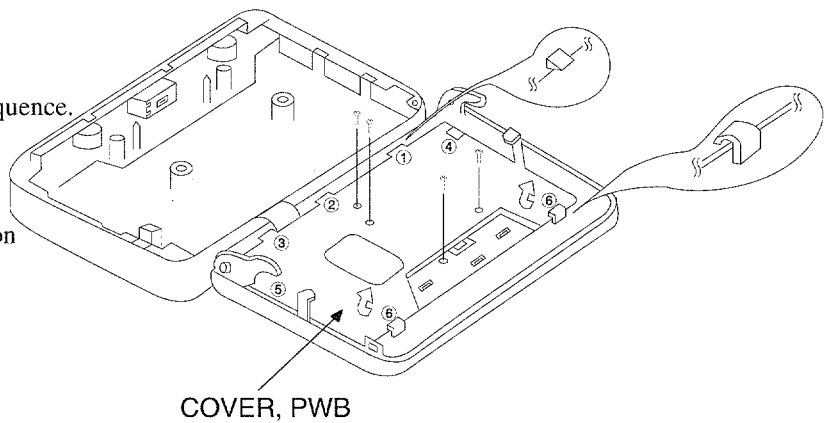
2. REMOVAL OF THE CASSETTE LID

- 1) Apply a little force in the direction of [1] to the cassette lid and pull out the boss of the right cassette foot and the T-spring.
- 2) Slide the right cassette lid in the direction of arrow [2] to remove boss of the left cassette foot.
- 3) By sliding the left cassette lid in the direction of [3], the whole cassette lid can be removed.



3. REMOVAL OF THE COVER, PWB

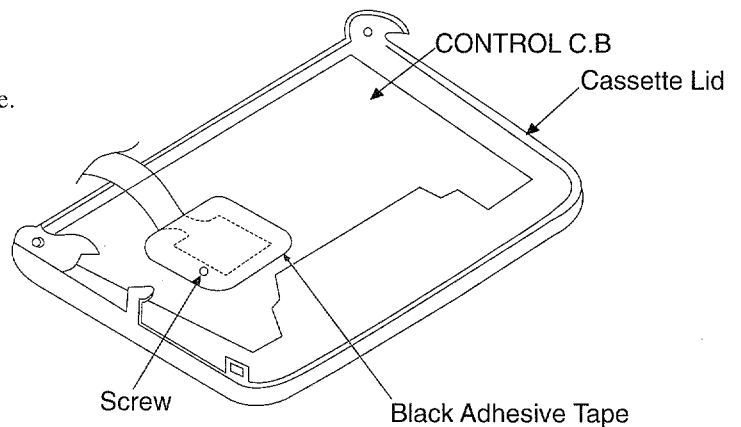
- 1) Remove 4 screws.
- 2) Release the hooks ①, ② and ③ in sequence.
- 3) Lift up the COVER, PWB at the middle position (around hook ②) to release hooks ④ and ⑤.
- 4) Slide the COVER, PWB in the direction of the 2 arrows to release hooks ⑥.



4. HOW TO REMOVE THE CONTROL C.B

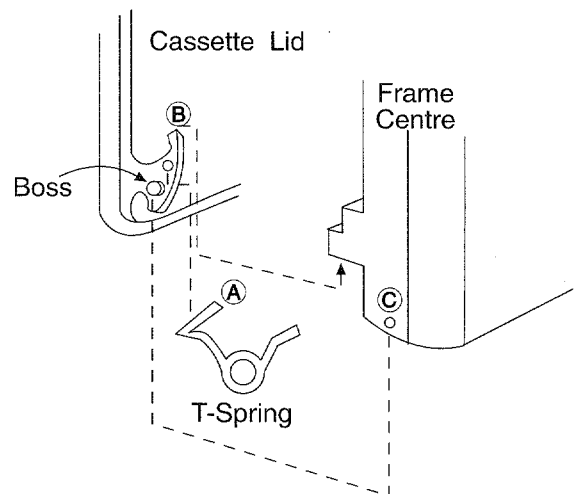
Note: There is a screw under the black adhesive tape.

- 1) Remove the black adhesive tape .
- 2) Remove the screw and control C.B.



5. HOW TO RE-INSERT THE T-SPRING.

- 1) Insert ① into the hole on the cassette lid.
- 2) Fix ② into the frame centre indicated by the arrow.
- 3) Lastly, fix the boss into the hole ③ of the frame centre.



ELECTRICAL MAIN PARTS LIST

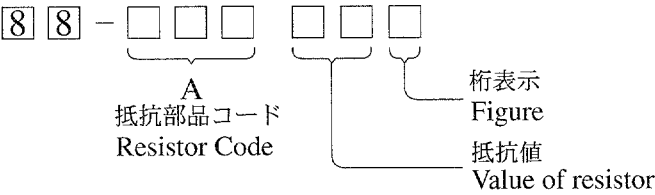
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
IC	87-001-943-080	C-IC,TA8155F		C36	87-010-178-080	C-CAP,S 1000P-50 K B	
	87-A20-532-040	C-IC,LB1977M		C37	87-012-140-080	C-CAP,S 470P-50 J CH	
	87-001-379-080	C-IC,TA8122AF		C51	87-A10-201-080	C-CAP,S 0.33-16 K B	
	87-A20-505-110	C-IC,TC9318FB-019		C53	87-016-669-080	C-CAP,S 0.1-25 K B	
	87-A20-124-080	C-IC,TK11823		C54	87-010-196-080	C-CAP,S 0.1-25 Z F	
	87-001-934-080	C-IC,BA1106F		C55	87-016-526-080	C-CAP,S 0.47-16 K B	
	87-001-371-080	C-IC,LA4533M		C56	87-010-992-080	C-CAP,S 0.047-25 B	
				C57	87-010-502-040	CAP,E 100-4 M 5L	
				C58	87-010-196-080	C-CAP,S 0.1-25 Z F	
				C59	87-016-669-080	C-CAP,S 0.1-25 K B	
TRANSISTOR	87-A30-085-070	C-TR,CSA1362GR		C60	87-016-669-080	C-CAP,S 0.1-25 K B	
	87-026-263-080	C-TR,RN1410		C61	87-016-669-080	C-CAP,S 0.1-25 K B	
	87-026-262-080	C-TR,RN1407		C101	87-010-196-080	C-CAP,S 0.1-25 Z F	
	89-502-094-040	C-FET,2SK209Y		C102	87-012-140-080	C-CAP,S 470P-50 J CH	
	87-026-261-080	C-TR,RN1404		C103	87-010-194-080	C-CAP,S 0.047-25 Z F	
	87-026-268-080	C-TR,RN2411		C104	87-010-146-080	C-CAP,S 2P-50 C CH	
	89-327-143-080	C-TR,2SC2714(O)		C105	87-010-319-080	C-CAP,S 56P-50 CH	
	87-026-581-080	C-TR,RN2405		C106	87-010-197-080	C-CAP,S 0.01-25 K B	
	89-327-125-080	C-TR,2SC2712GR		C107	87-010-197-080	C-CAP,S 0.01-25 K B	
	87-026-264-080	C-TR,RN1411		C108	87-010-320-080	C-CAP,S 68P-50 J CH	
DIODE	89-333-266-080	C-TR,2SC3326B		C109	87-010-145-080	C-CAP,S 1P-50 CH	
	87-A40-360-080	C-DIODE,MA786		C110	87-010-318-080	C-CAP,S 47P-50 CH	
	87-020-027-080	C-DIODE,1SS184		C111	87-010-145-080	C-CAP,S 1P-50 CH	
	87-020-339-080	C-DIODE,1SS226		C112	87-016-462-080	C-CAP,S 1-16 Z F	
	87-A40-290-080	C-VARI-CAP,KV1590		C113	87-010-197-080	C-CAP,S 0.01-25 K B	
	87-026-360-080	C-VARI-CAP,KV1430		C114	87-010-311-080	C-CAP,S 12P-50 CH	
				C115	87-010-154-080	C-CAP,S 10P-50 D CH	
				C116	87-010-503-040	CAP,E 220-4 M 5L	
				C117	87-012-141-080	C-CAP,S 0.22-16 Z F	
				C118	87-012-157-080	C-CAP,S 330P-50 CH	
MAIN C.B	87-008-543-010	FLTR KIT,10.7M		C119	87-012-141-080	C-CAP,S 0.22-16 Z F	
	BPF101 87-A90-601-010	FLTR,BPF GFWE7		C120	87-010-195-080	C-CAP,S 0.068-25 Z F	
	C1 87-010-178-080	C-CAP,S 1000P-50 K B		C121	87-010-196-080	C-CAP,S 0.1-25 Z F	
	C2 87-010-178-080	C-CAP,S 1000P-50 K B		C122	87-010-196-080	C-CAP,S 0.1-25 Z F	
	C3 87-016-462-080	C-CAP,S 1-16 F		C123	87-010-198-080	C-CAP,S 0.022-25 K B	
	C4 87-016-462-080	C-CAP,S 1-16 F		C124	87-010-198-080	C-CAP,S 0.022-25 K B	
	C5 87-010-322-080	C-CAP,S 100P-50 CH		C125	87-010-197-080	C-CAP,S 0.01-25 K B	
	C6 87-010-322-080	C-CAP,S 100P-50 CH		C126	87-010-197-080	C-CAP,S 0.01-25 K B	
	C7 87-010-186-080	C-CAP,S 4700P-50 K B		C127	87-010-178-080	C-CAP,S 1000P-50 K B	
	C8 87-010-186-080	C-CAP,S 4700P-50 K B		C128	87-010-178-080	C-CAP,S 1000P-50 K B<YU>	
	C9 87-010-197-080	C-CAP,S 0.01-25 K B		C129	87-010-819-040	CAP,E 33-4 M MJ	
	C10 87-010-197-080	C-CAP,S 0.01-25 K B		C130	87-010-452-080	C-CAP,S 1-16 Z F	
	C11 87-A10-418-080	C-CAP,TN 22-4 A TCF		C131	87-010-197-080	C-CAP,S 0.01-25 K B	
	C12 87-A10-418-080	C-CAP,TN 22-4 A TCF		C132	87-010-197-080	C-CAP,S 0.01-25 K B	
	C13 87-010-220-080	C-CAP,S 0.018-25 B		C133	87-010-197-080	C-CAP,S 0.01-25 K B	
	C14 87-010-220-080	C-CAP,S 0.018-25 B		C134	87-010-145-080	C-CAP,S 1P-50 CH	
	C15 87-010-198-080	C-CAP,S 0.022-25 K B		C135	87-010-154-080	C-CAP,S 10P-50 D CH	
	C16 87-010-198-080	C-CAP,S 0.022-25 K B		C136	87-010-502-040	CAP,E 100-4 M 5L	
	C17 87-016-462-080	C-CAP,S 1-16 F		C137	87-010-322-080	C-CAP,S 100P-50 CH	
	C18 87-016-462-080	C-CAP,S 1-16 F		C138	87-010-197-080	C-CAP,S 0.01-25 K B	
	C19 87-016-462-080	C-CAP,S 1-16 F		C139	87-010-318-080	C-CAP,S 47P-50 J CH	
	C20 87-016-462-080	C-CAP,S 1-16 F		C141	87-010-196-080	C-CAP,S 0.1-25 Z F	
	C21 87-016-462-080	C-CAP,S 1-16 F		C142	87-010-196-080	C-CAP,S 0.1-25 Z F	
	C22 87-016-462-080	C-CAP,S 1-16 F		C143	87-010-322-080	C-CAP,S 100P-50 J CH<YU>	
	C23 87-016-462-080	C-CAP,S 1-16 F		C143	87-010-318-080	C-CAP,S 47P-50 J CH<YH,YJ,YZ>	
	C24 87-016-462-080	C-CAP,S 1-16 F		C144	87-010-178-080	C-CAP,S 1000P-50 K B	
	C25 87-010-589-040	CAP,E 330-2		C145	87-010-178-080	C-CAP,S 1000P-50 K B<YH,YJ,YZ>	
	C26 87-016-526-080	C-CAP,S 0.47-16 K B		C146	87-010-178-080	C-CAP,S 1000P-50 K B<YH,YJ,YZ>	
	C28 87-010-503-040	CAP,E 220-4 M 5L		C315	87-010-820-040	CAP,E 47-4 (MJ)	
	C29 87-A10-419-080	C-CAP,TN 1-16 A TCF		C351	87-010-186-080	C-CAP,S 4700P-50 K B	
	C30 87-A10-419-080	C-CAP,TN 1-16 A TCF		C352	87-010-186-080	C-CAP,S 4700P-50 K B	
	C31 87-010-587-040	CAP,E 100-2		C353	87-010-193-080	C-CAP,S 0.033-25 Z F	
	C32 87-010-501-040	CAP,E 47-4 M 5L		C354	87-010-193-080	C-CAP,S 0.033-25 Z F	
	C33 87-A10-422-080	C-CAP,TN 10-4 TCF		C355	87-010-197-080	C-CAP,S 0.01-25 K B	
	C34 87-010-181-080	C-CAP,S 1800P-50 K B		C356	87-010-197-080	C-CAP,S 0.01-25 K B	
	C35 87-010-181-080	C-CAP,S 1800P-50 K B		C357	87-010-193-080	C-CAP,S 0.033-25 Z F	
				C358	87-010-193-080	C-CAP,S 0.033-25 Z F	
				C359	87-010-196-080	C-CAP,S 0.1-25 Z F	
				C360	87-010-196-080	C-CAP,S 0.1-25 Z F	
				C361	87-010-820-040	CAP,E 47-4 (MJ)	

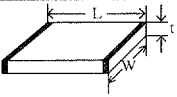
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C501	87-010-196-080		C-CAP,S 0.1-25 Z F<YZ>	C301	87-016-462-080		C-CAP,S 1-16 F
C502	87-010-820-040		CAP,E 47-4 (MJ)	C302	87-016-462-080		C-CAP,S 1-16 F
C503	87-016-462-080		C-CAP,S 1-16 F	C303	87-010-181-080		C-CAP,S 1800P-50 K B
C651	87-010-180-080		C-CAP,S 1500P-50 K B	C304	87-010-181-080		C-CAP,S 1800P-50 K B
C652	87-010-180-080		C-CAP,S 1500P-50 K B	C305	87-010-196-080		C-CAP,S 0.1-25 Z F
C653	87-012-141-080		C-CAP,S 0.22-16 Z F	C306	87-010-196-080		C-CAP,S 0.1-25 Z F
C654	87-012-141-080		C-CAP,S 0.22-16 Z F	C307	87-016-462-080		C-CAP,S 1-16 F
C655	87-010-178-080		C-CAP,S 1000P-50 K B	C308	87-016-462-080		C-CAP,S 1-16 F
C656	87-010-819-040		CAP,E 33-4 (MJ)	C309	87-010-189-080		C-CAP,S 8200P-50 B
C657	87-010-322-080		C-CAP,S 100P-50 J CH	C310	87-010-189-080		C-CAP,S 8200P-50 B
C658	87-010-503-040		CAP,E 220-4 M 5L	C311	87-010-195-080		C-CAP,S 0.068-25 F
C659	87-010-503-040		CAP,E 220-4 M 5L	C312	87-010-195-080		C-CAP,S 0.068-25 F
C660	87-010-820-040		CAP,E 47-4 (MJ)	C313	87-010-188-080		C-CAP,S 6800P-50 K B
C701	87-012-145-080		C-CAP,S 270P-50 J CH	C314	87-010-188-080		C-CAP,S 6800P-50 K B
C702	87-010-452-080		C-CAP,1-16 Z F	L251	87-A50-230-080		C-COIL,D-D(CP4LBM)
C703	87-010-197-080		C-CAP,0.01-25 K B	LCD201	87-HJ6-609-010		LCD,HS ASSY(BAND/TU)
C704	87-010-178-080		C-CAP,S 1000P-50 K B	R205	87-022-353-080		C-RES,S 6.8K-1/10W F
C705	87-010-197-080		C-CAP,S 0.01-25 K B	R206	87-022-353-080		C-RES,S 6.8K-1/10W F
C706	87-010-197-080		C-CAP,S 0.01-25 K B	R207	87-022-361-080		C-RES,S 47K-1/10W F
C707	87-010-184-080		C-CAP,S 3300P-50 K B	SW213	87-036-304-080		C-SW,SL 1-1-2
C708	87-A10-418-080		C-CAP,TN 22-4 A TCF	TH201	87-A90-547-080		C-THMS,47K
C710	87-010-462-080		C-CAP,S 1-16 Z F	X201	87-A70-082-010		VIB,XTAL 75KHZ
CF101	87-A90-456-080		C-FLTR,PFWCC 450J3				
J1	85-HRL-623-010		JACK,3.5 ST BLK				
J2	85-HRL-623-010		JACK,3.5 ST BLK				
J3	87-A60-122-010		JACK,DC 3.8				
L1	87-A50-167-010		COIL,RF CHOKE3.0UH	W1	87-HJ6-604-010		FF-CABLE, 22P
L2	87-003-089-010		COIL,47UH FL5R200F				
L101	87-HR6-610-010		BAR-ANT,MW				
L102	87-HJ6-607-010		COIL,RF FM				
L103	87-HJ6-608-010		COIL,OSC FM				
L104	87-003-226-080		COIL,100LH				
L105	85-HRE-619-010		IFT,AM				
L701	87-007-189-010		COIL,OSC 50KHZ				
SFR1	87-A90-226-010		C-SFR, 500 H POZ3AN				
SFR2	87-A90-226-010		C-SFR, 500 H POZ3AN				
SFR51	87-A90-476-080		C-SFR,B303 VG033CPXT				
SW1	87-A90-423-010		SW,LEAF				
SW4	87-036-123-010		C-SWITCH SLIDE 1-1-2				
SW6	87-A90-422-010		SW,SL 2-2-2				
SW51	87-036-304-080		C-SW,SL 1-1-2 SS-350				
SW351	87-A90-050-010		SW, SL 2-2-2 NS (BLK)				
SW501	87-036-145-080		C-SW,SL 1-1-3<YZ>				
SW701	87-036-082-010		SLIDE SWITCH, 2-2-2				
TH51	87-A90-542-080		C-THMS,NTH5G2M35A472K04TE				
VC101	87-011-217-010		TRIMMER,CER 10P 3.9X4.5 VCT35C				
VR1	87-A90-479-010		VR,RTRY 20KAX2				
CONTROL C.B							
C205	87-016-462-080		C-CAP,S 1-16 F				
C206	87-010-197-080		C-CAP,S 0.01-25 K B				
C207	87-016-462-080		C-CAP,S 1-16 F				
C208	87-016-462-080		C-CAP,S 1-16 F				
C209	87-016-462-080		C-CAP,S 1-16 F				
C210	87-010-314-080		C-CAP,S 22P-50 CH				
C211	87-010-312-080		C-CAP,S 15P-50 CH				
C212	87-012-142-080		C-CAP,S 0.33-16 Z F				
C213	87-010-196-080		C-CAP,S 0.1-25 Z F				
C214	87-010-196-080		C-CAP,S 0.1-25 Z F				
C215	87-010-196-080		C-CAP,S 0.1-25 Z F				
C251	87-010-197-080		C-CAP,S 0.01-25 K B				
C252	87-010-452-080		C-CAP,S 1-16 Z F				
C253	87-010-197-080		C-CAP,S 0.01-25 K B				
C254	87-010-152-080		C-CAP,S 8P-50 CH				
C255	87-010-319-080		C-CAP,S 56P-50 CH				
C256	87-010-149-080		C-CAP,S 5P-50 CH				
C257	87-016-462-080		C-CAP,S 1-16 F				
C258	87-016-462-080		C-CAP,S 1-16 F				
C259	87-010-196-080		C-CAP,S 0.1-25 Z F				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

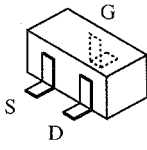
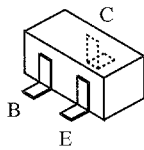
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

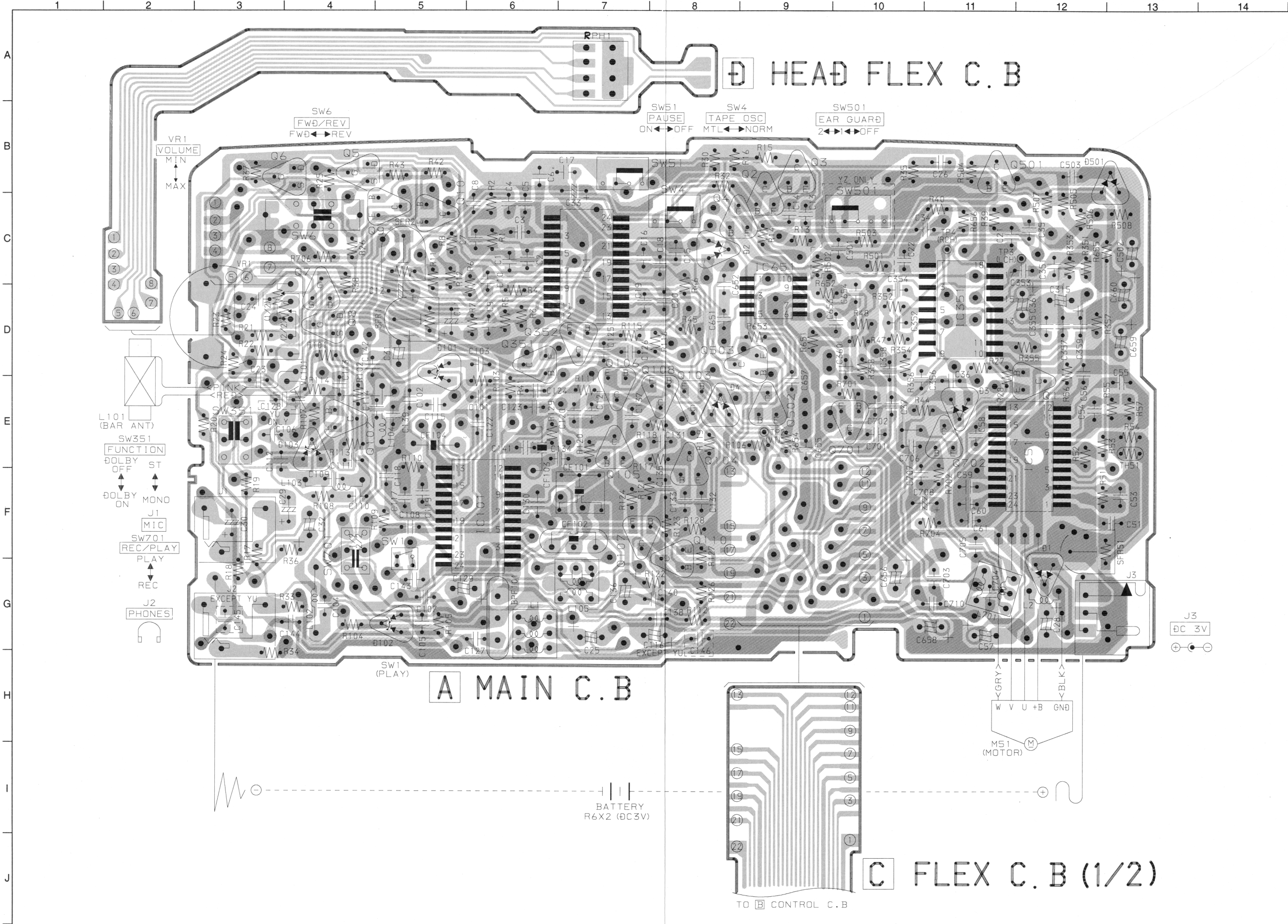
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

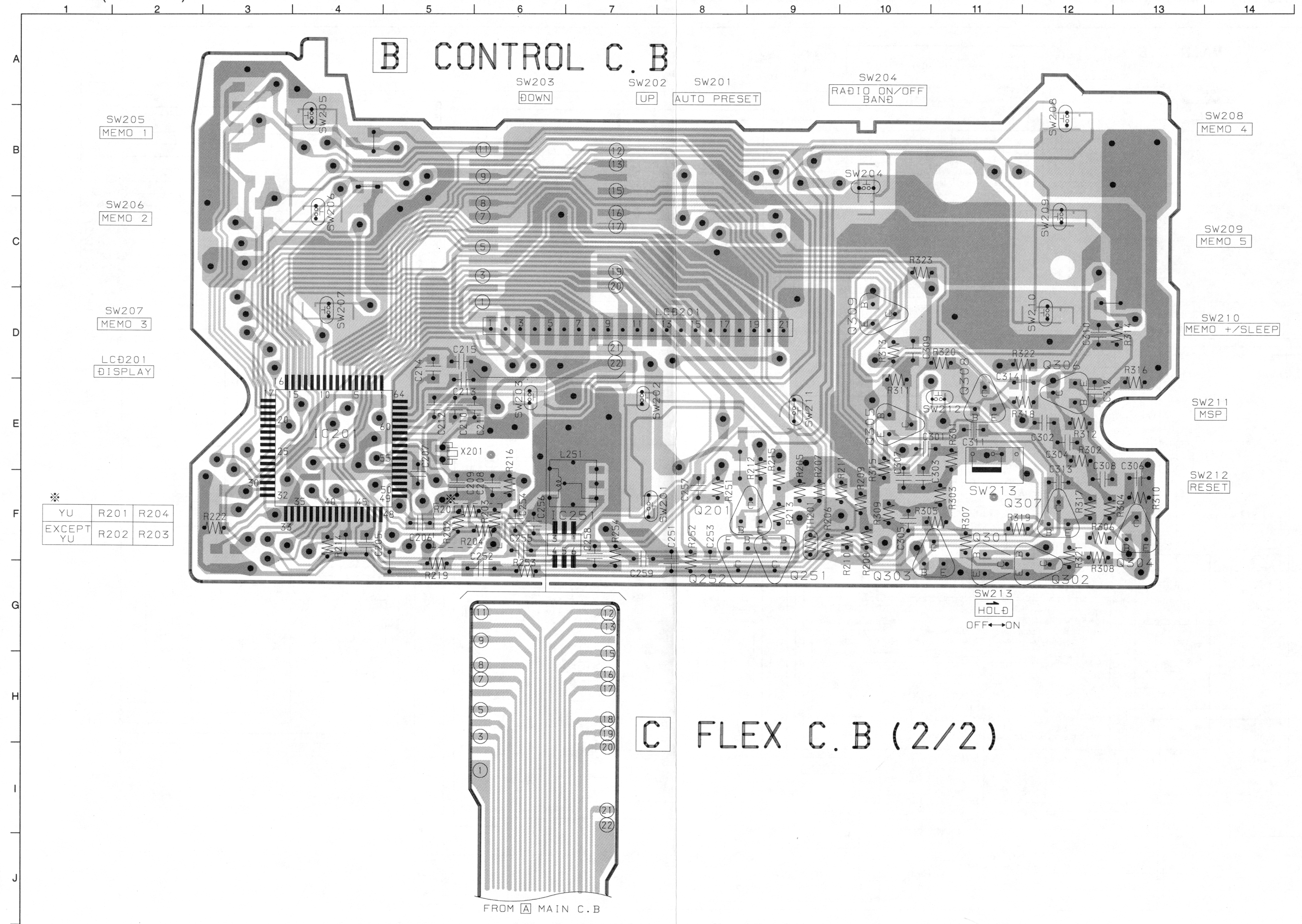
TRANSISTOR ILLUSTRATION

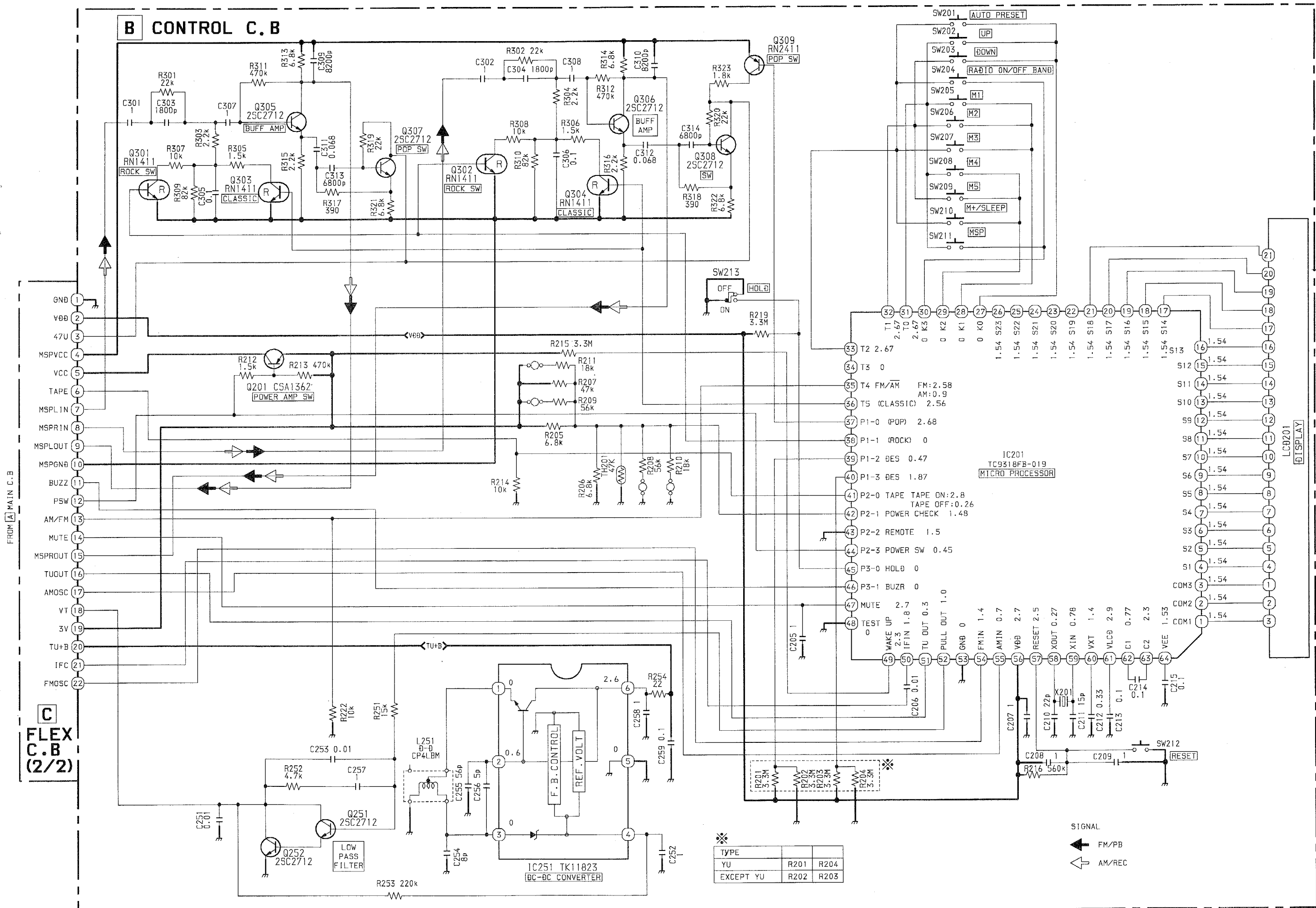


2SC2712 RN1407
2SC2714 RN1410
2SC3326 RN1411
CSA1362 RN2405
RN1404 RN2411

2SK209

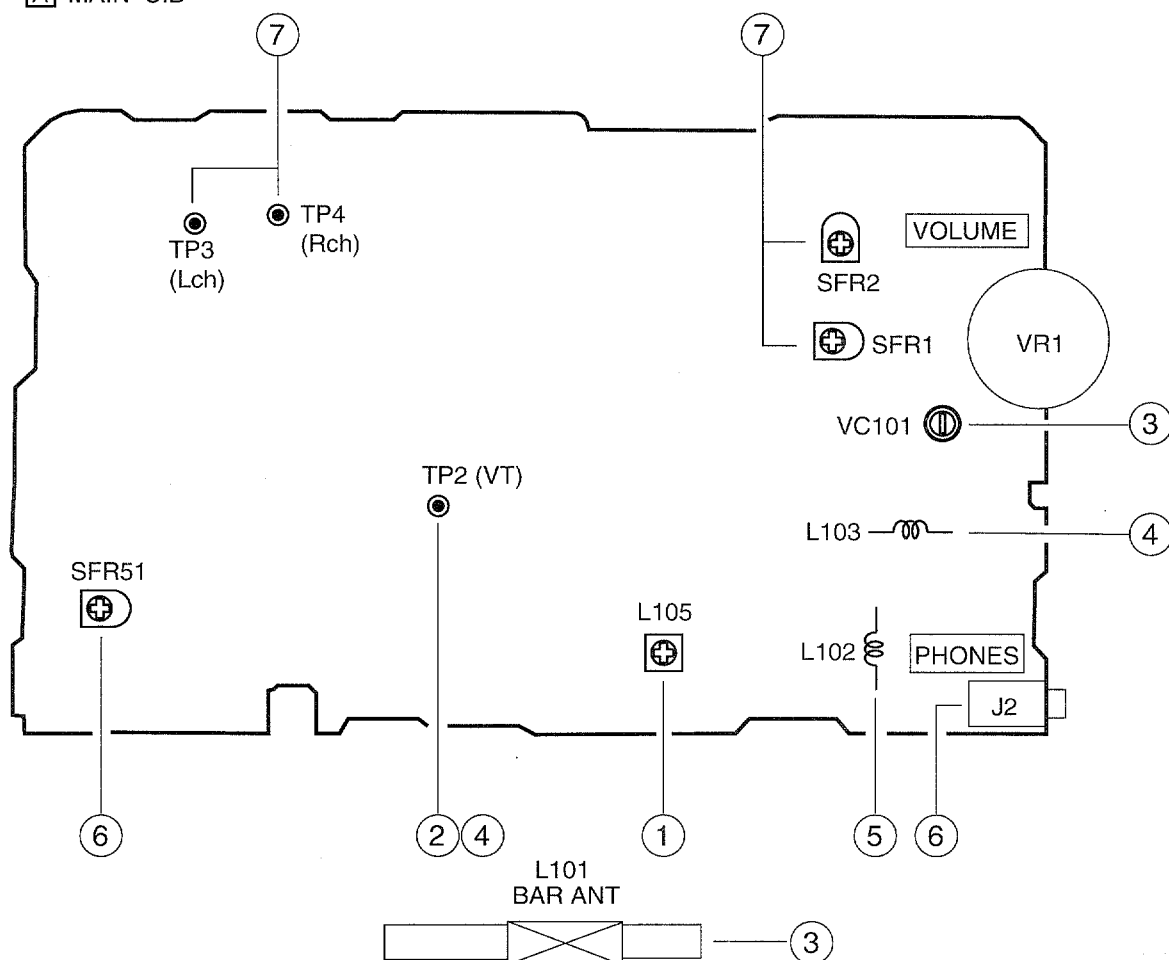






ADJUSTMENT

A MAIN C.B



<TUNER SECTION>

1. AM IF Adjustment
L105 450kHz
2. AM VT Check
Settings : • Test point : TP2 (VT)
Method : Set to AM 530kHz and TP2, check the test point is more than 0.8V. Then set to AM 1710kHz and check the test point is in $6.5 \pm 1V$.
3. AM Tracking Adjustment
L101 630kHz
VC101 1440kHz
4. FM VT Adjustment
Settings : • Test point : TP2 (VT)
• Adjustment location : L103
Method : Set to FM 76MHz (using jig) and adjust L103 so that the test point becomes $1.0V \pm 0.1V$. Then set to FM 108.1MHz and check test point is in $7.0V \sim 10.0V$.
5. FM Tracking Adjustment
L102 76MHz

<TAPE SECTION>

6. Tape Speed Adjustment
Settings : • Test tape : TTA-100
• Test point : PHONES JACK (J2)
• Adjustment location : SFR51
• Tape/radio : TAPE
• Tape select : NORM
• Ear guard (YZ only) : OFF
• MSP : CLASSIC
• Direction : FWD
• Volume : NON-CLIP (MAX -10dB DOWN)
Method : Play back the test tape and adjust for $3015 \pm 10Hz$.
7. Dolby Level Adjustment
Settings : • Test tape : TTA-200
• Test point : TP3 (Lch), TP4 (Rch)
• Adjustment location : SFR1 (Lch), SFR2 (Rch)
• Dolby SW : OFF
• Tape select : NORM
• Direction : FWD & REV
Method : Play back the test tape (FWD & REV) and adjust SFR1, 2 so that the test point becomes $100mV \pm 1/-0dB$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

Sensitivity :

(IHF, THD 3%)

FM Less than 20dB
[at 76MHz (YU)]
[at 87.5MHz (Except YU)]
Less than 20dB
[at 90MHz (YU)]
[at 98.0MHz (Except YU)]
Less than 21 dB
[at 108.0MHz]

(S/N 10dB)

AM Less than 61dB [at 630kHz]
Less than 59dB
[at 1000kHz (YU)]
[at 999kHz (Except YU)]
Less than 58dB
[at 1440kHz]

Intermediate frequency : FM 10.7MHz $\pm$ 0.1MHz

AM 450kHz $\pm$ 3kHz

FM stereo separation :

More than 16dB
[at 90MHz (YU)]
[at 98.1MHz (Except YU)]

<TAPE SECTION>

Tape speed :

3015Hz $\pm$ 60Hz

Wow & flutter :

Less than 0.50% (RMS)

Take-up torque :

23 ~ 40g-cm (FWD, REV)

F.F torque :

80 ~ 150g-cm

Rew torque :

80 ~ 150g-cm

Back tension :

1.5 ~ 4.5g-cm (FWD, REV)

S/N ratio :

More than 43dB (PB, DC)

More than 23dB (REC/PB, DC)

Distortion :

Less than 3.0% (PB, DC)

Less than 10.0% (REC/PB, DC)

Noise level :

Less than 7.0mV

(Vol MAX, PB, DC)

Frequency response :

63Hz +1/-6dB ~ 8kHz $\pm$ 3dB

(NORMAL)

63Hz +1/-6dB ~ 10kHz $\pm$ 4dB

(CrO₂, METAL)

Test tape :

MTT-15070

TTA- 200

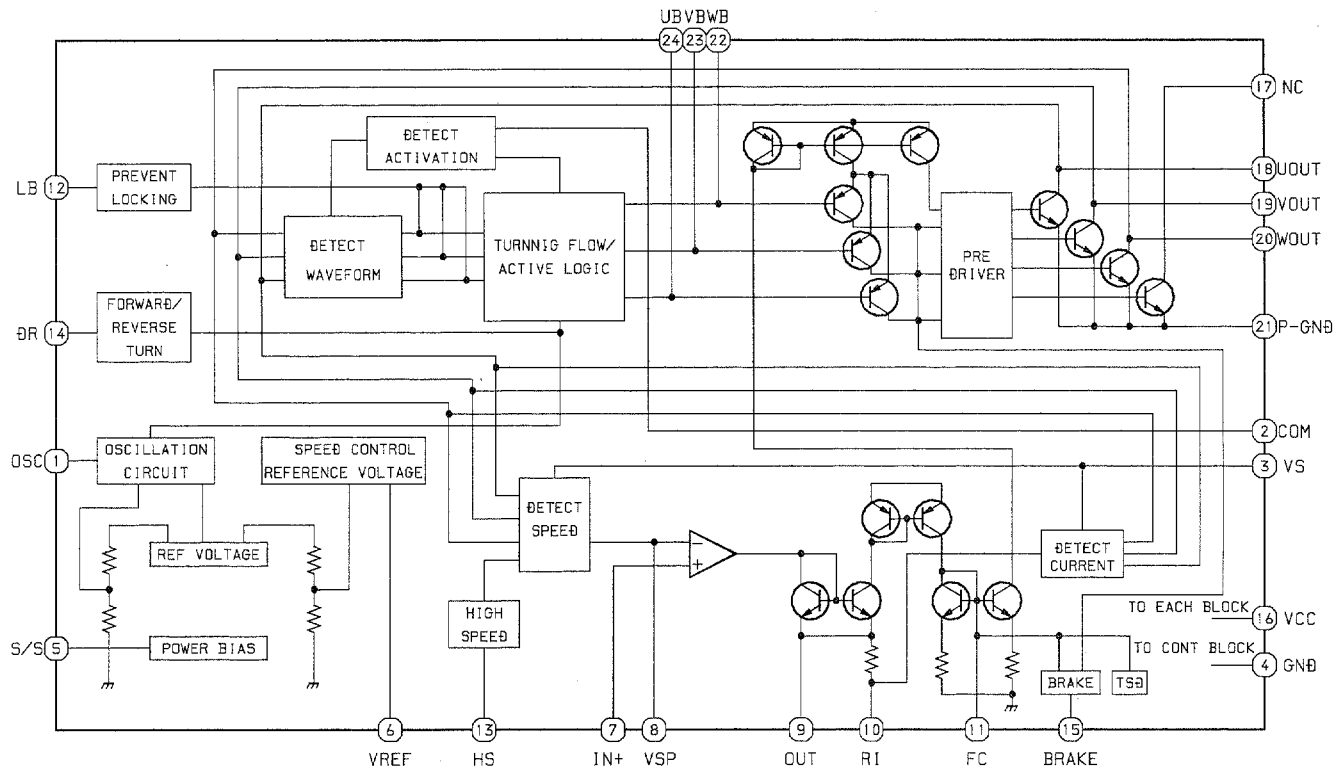
TTA- 210

TTA- 320(120 μ)/TTA-310(70 μ)

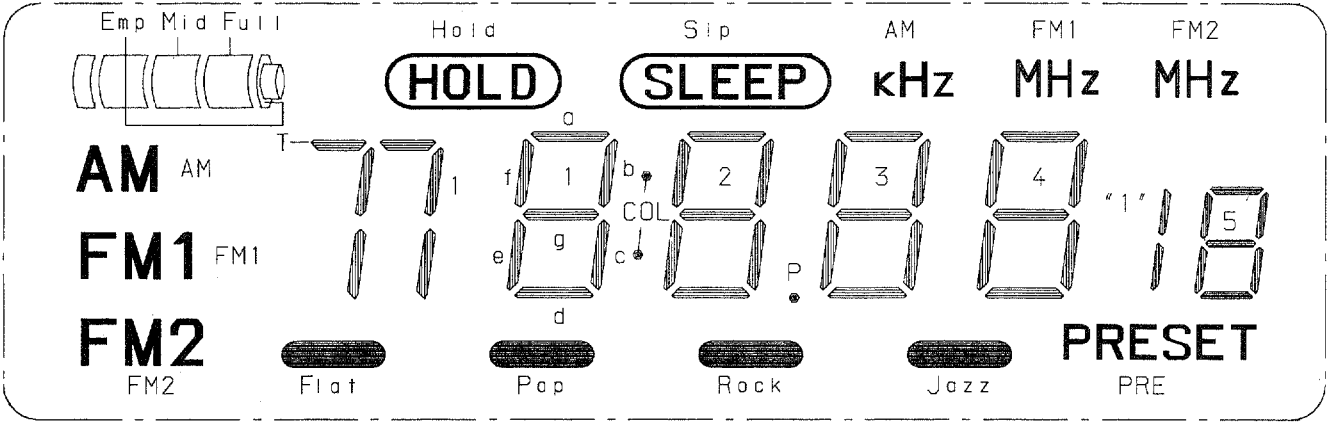
TTA- 602

IC BLOCK DIAGRAM

IC, LB1977M



LCD DIAGRAM



NO.	1	2	3	4	5	6	7	8	9	10	11
COM1	—	—	COM1	FM2	FLAT	1	1E	1D	POP	COL	2E
COM2	—	COM2	—	FM1	MIØ	T	1F	1G	1C	SLP	2F
COM3	COM3	—	—	AM	EMP	FULL	HOLD	1A	1B	—	2A

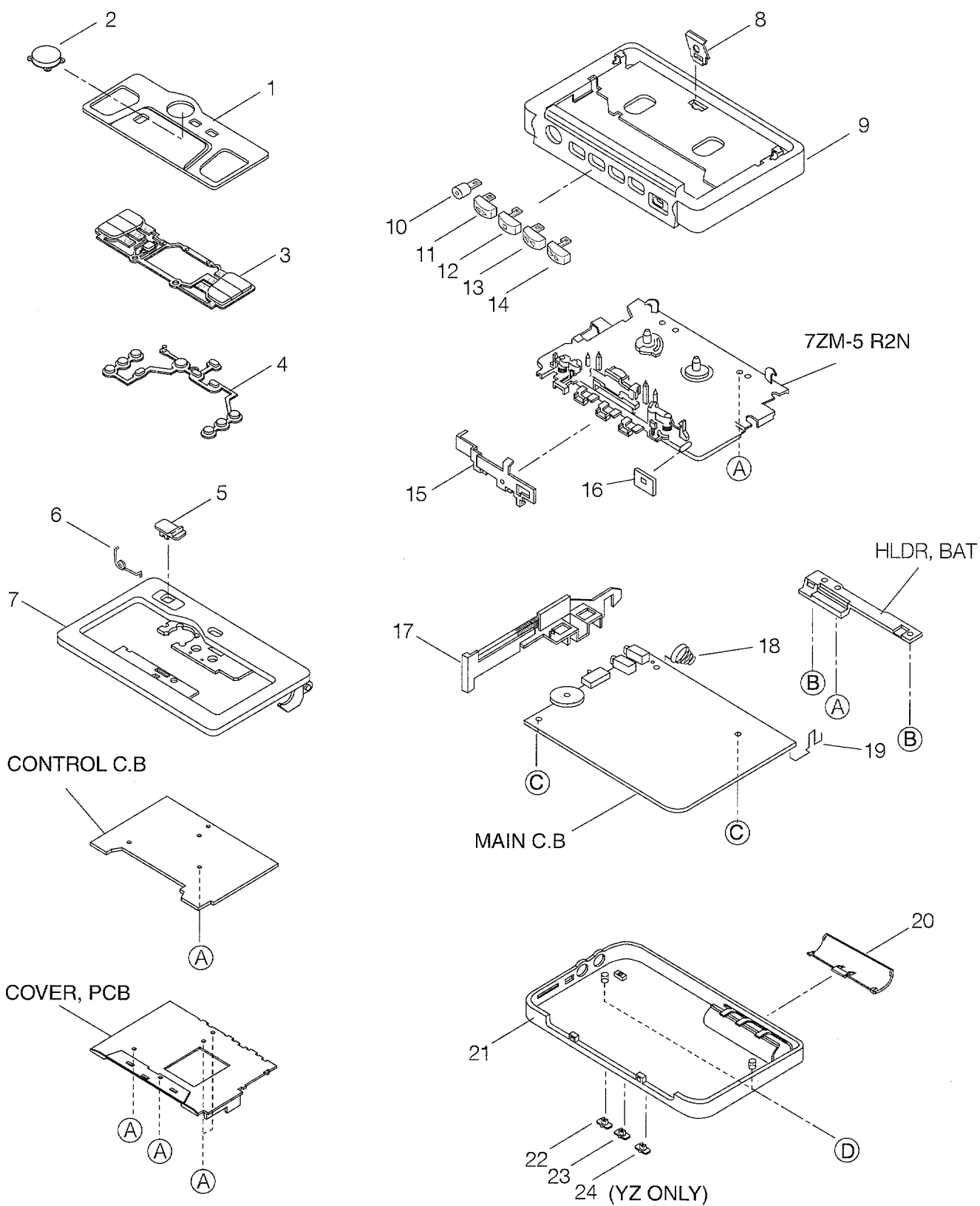
NO.	12	13	14	15	16	17	18	19	20	21
COM1	2D	ROCK	P	3D	JAZZ	4E	4D	PRE	5D	5C
COM2	2G	2C	3E	3C	4F	4G	4C	5E	5G	5B
COM3	2B	3F	3G	3B	3A	4A	4B	'1'	5F	5A

IC DESCRIPTION

IC, TC9318FB-019

Pin No.	Pin Name	I/O	Description
1 ~ 3	COM1~COM3	O	LCD commom output.
4 ~ 21	S1 ~ S18	O	LCD segment output.
22 ~ 26	S19 ~ S23	-	Not used.
27 ~ 30	K0 ~ k3	I	Key matrix input.
31 ~ 34	T0 ~T3	O	Key return timing output.
35	FM/AM	O	‘H’: FM, ‘L’: AM.
36 ~ 38	MSP	O	These three output ports are used for MSP switching.
39,40	DES	I	These two input ports determine the destination.
41	TAPE	I	‘H’: Tape On, ‘L’: Tape Off.
42	POWER CHECK	I	A/D in for power supply voltage level.
43	REMOTE	I	A/D in for remote controller.
44	POWER SW	O	‘H’: Power Off, ‘L’: Power On.
45	HOLD	I	‘H’: Hold Off, ‘L’: Hold On.
46	BUZZER	O	Buzzer output.
47	MUTE	O	Mute output.
48	TEST	-	Not used.
49	WAKE UP	I	Wake up the system from memory back-up mode.
50	IF IN	I	IF frequency input.
51	TU OUT	O	When tuner on, ‘L’ level is output.
52	PLL OUT	O	Phase comparison output.
53	GND	-	Ground terminal.
54	FM IN	I	FM oscillator signal input.
55	AM IN	I	AM oscillator signal input.
56	VDD	I	Supply voltage terminal.
57	RESET	I	System reset input.
58	XOUT	-	Crystal oscillator pin.
59	XIN	-	Crystal oscillator pin.
60	VXT	-	Power supply for crystal oscillator.
61	VLCD	-	Reference voltage for LCD driver.
62	C 1	-	Voltage doubler boosting.
63	C 2	-	
64	VEE	-	Constant 1.5V for LCD driver.

MECHANICAL EXPLODED VIEW 1 / 1

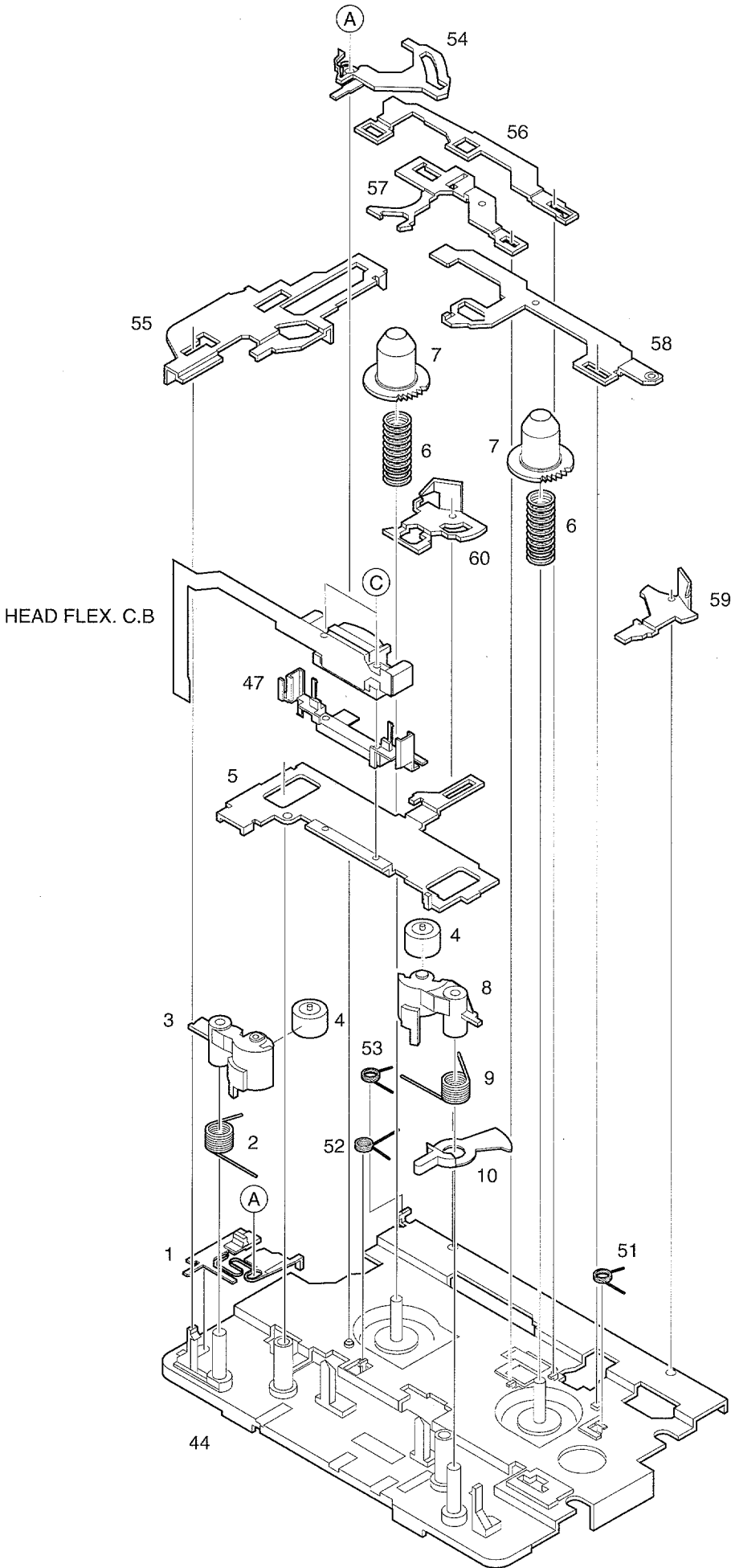


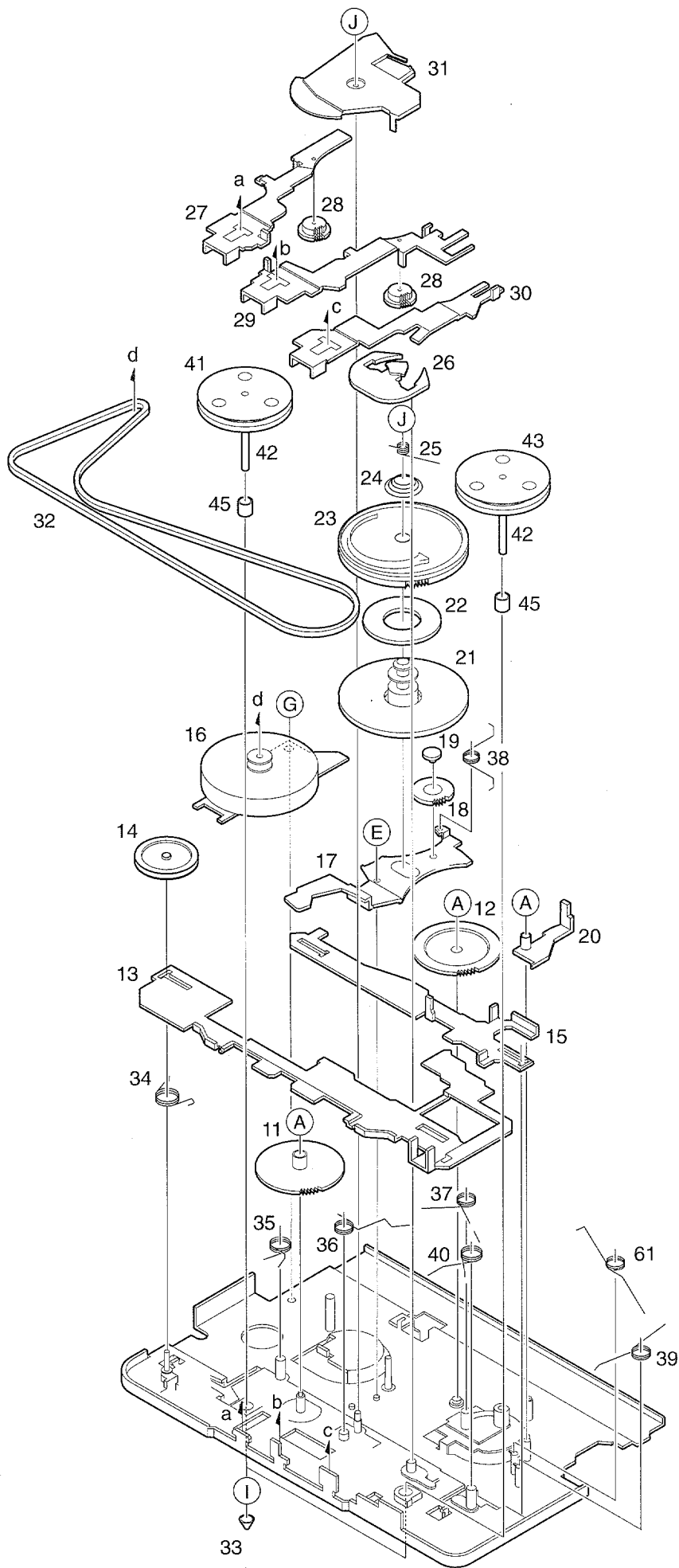
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ6-005-010		WINDOW, LCD
2	87-HJ6-008-010		CAP, MSP
3	87-HJ6-007-010		CAP, FUNCTION
4	87-HJ6-006-010		BTN, FUNCTION
5	87-HJ6-009-010		KNOB, SL HOLD
6	87-HRA-204-010		SPR-T, CLICK
7	87-HJ6-001-010		LID, CASS<YH, YU, YJ>
7	87-HJ6-016-010		LID, CASS (EGS)<YZ>
8	87-HG6-204-010		SPR-P, CASS
9	87-HJ6-002-010		FRAME, CENTER
10	87-HJ6-010-010		BTN, REC
11	87-HJ6-011-010		BTN, PLAY
12	87-HJ6-012-010		BTN, STOP
13	87-HJ6-013-010		BTN, REW
14	87-HJ6-014-010		BTN, FF
15	87-HJ6-209-010		LEVER, PAUSE
16	87-HJ6-210-010		PLATE, IND DIR
17	87-HJ6-201-010		HLDR, BAR ANT
18	87-HJ6-203-010		BAT-CONTACT, -
19	87-HJ6-202-010		BAT-CONTACT, +
20	87-HJ6-004-010		LID, BAT
21	87-HJ6-003-010		CABI, REAR<YH, YU>
21	87-HJ6-017-010		CABI, REAR (EGS)<YZ>
21	87-HJ6-018-010		CABI, REAR (YJ)<YJ>
22	87-HJ6-015-010		KNOB, SL PAUSE
23	87-HJ6-019-010		KNOB, SL EGS
A	87-067-732-010		VT2+1.4-3 CR BLK HL
B	87-067-527-010		VT+1.4-2.5 BLK
C	87-067-384-010		VT2+1.4-3.5 SWCH HL
D	87-067-770-010		VT2+1.7-9 BLK

TAPE MECHANISM EXPLODED VIEW 1 / 1



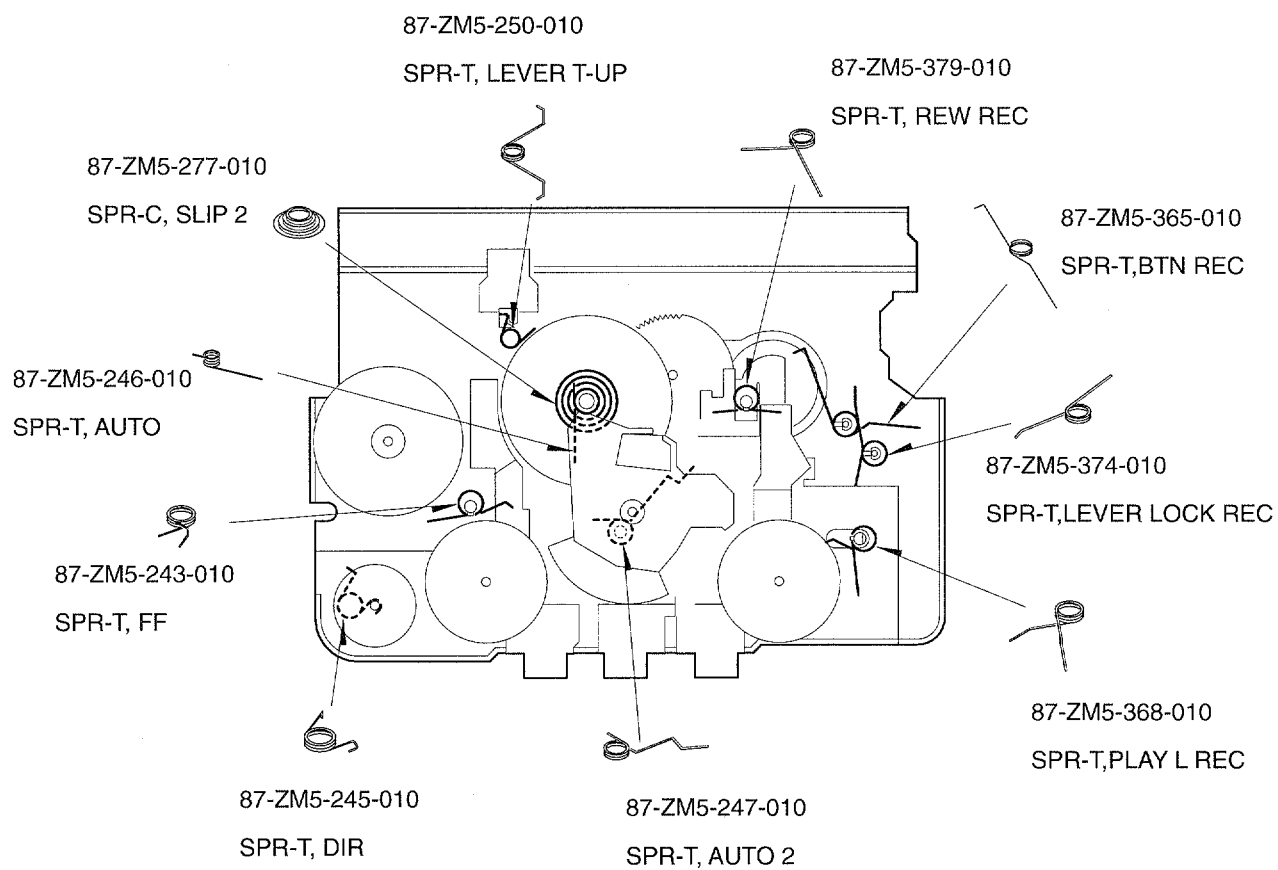
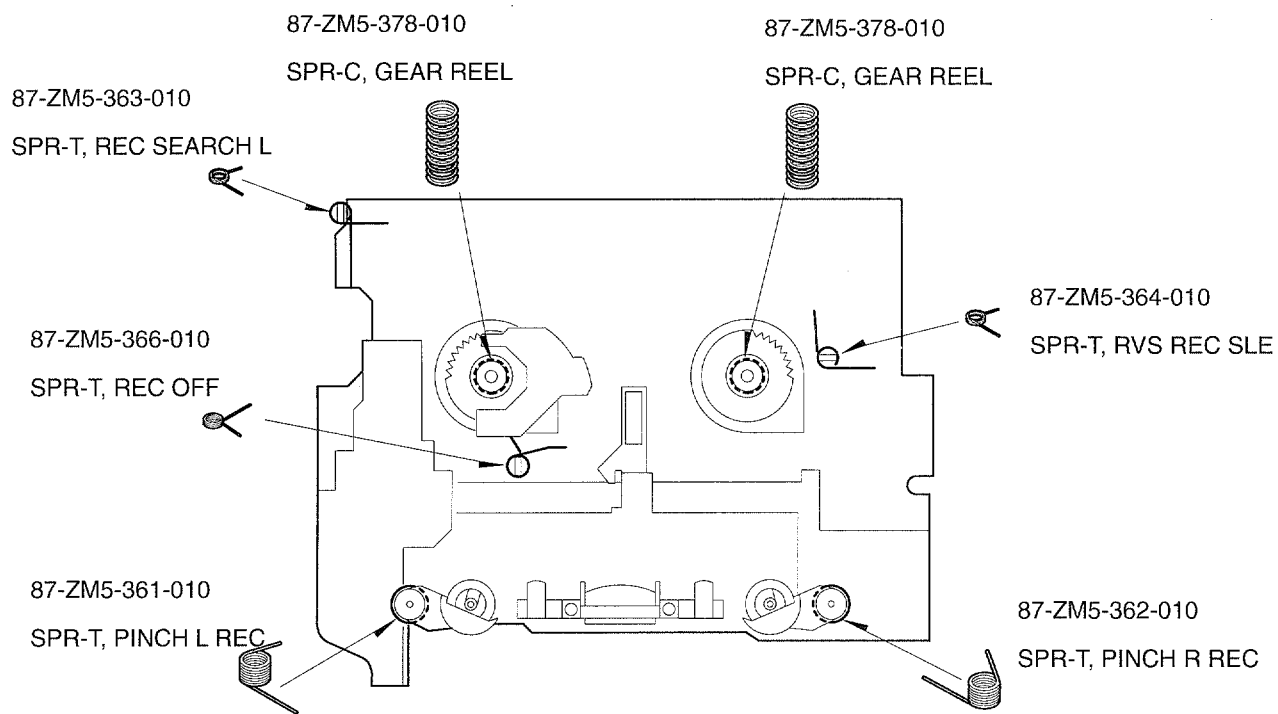


TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZM5-314-010		LEVER,MODE SEL REC	36	87-ZM5-247-010		SPR-T,AUTO 2
2	87-ZM5-361-010		SPR-T,PINCH L REC	37	87-ZM5-379-010		SPR-T,REW REC
3	87-ZM5-351-010		ARM,PINCH L REC	38	87-ZM5-250-010		SPR-T,LEVER T-UP
4	87-ZM5-346-010		ROLLER ASSY,PINCH REC	39	87-ZM5-374-010		SPR-T,LEVER LOCK REC
5	87-ZM5-310-010		LEVER,PLAY HS	40	87-ZM5-368-010		SPR-T,PLAY L REC
6	87-ZM5-378-010		SPR-C,BT REC	41	87-ZM5-236-010		FLY-WHL,R
7	87-ZM5-354-010		GEAR,REEL REC	42	87-ZM5-345-010		CAPSTAN,REC 1.8-0
8	87-ZM5-352-010		ARM,PINCH R REC	43	87-ZM5-235-010		FLY-WHL,L
9	87-ZM5-362-010		SPR-T,PINCH R REC	44	87-ZM5-304-010		CHAS ASSY,CUTSERT REC
10	87-ZM5-219-010		BTN,DIR KNOB	45	87-ZM5-260-010		CLR,BEARING
11	87-ZM5-221-010		GEAR,IDL A	47	87-ZM5-338-010		HLDR,HALF HEAD
12	87-ZM5-222-010		GEAR,IDL B	51	87-ZM5-364-010		SPR-T,RVS REC SLE
13	87-ZM5-318-010		LEVER ASSY,DIR HS	52	87-ZM5-366-010		SPR-T,REC OFF
14	85-ZM1-212-010		PULLY PM 2	53	87-ZM5-363-010		SPR-T,REC SEARCH L
15	87-ZM5-335-010		LEVER,LOCK REC	54	87-ZM5-311-010		LEVER,REC OFF
16	M8-6ZS-391-000		ABL-63B	55	87-ZM5-336-010		LEVER,BTN TP REC
17	87-ZM5-208-010		LEVER ASSY,T-UP	56	87-ZM5-323-010		LEVER,REC GUARD
18	87-ZM5-223-010		GEAR,PLAY	57	87-ZM5-328-010		LEVER,TRANSMIT
19	87-ZM5-259-010		CAP,PLAY	58	87-ZM5-327-010		LEVER,RVS REC SEL
20	87-ZM5-216-010		LEVER,PLAY SW	59	87-ZM5-322-010		LEVER,REC SEARCH R
21	87-ZM5-359-010		GEAR,SLIP REC	60	87-ZM5-321-010		LEVER,REC SEARCH L
22	87-ZM5-229-010		FELT,CLUTCH	61	87-ZM5-365-010		SPR-T,BTN REC
23	87-ZM5-344-010		GEAR,SLIP REC	A	87-B10-136-010		W-P,1.09-3.1-0.4
24	87-ZM5-277-010		SPR-C,SLIP 2	C	87-ZM5-385-010		S-SCREW,EH+1.4-10.1
25	87-ZM5-246-010		SPR-T,AUTO	E	87-B10-135-010		W-P,1.17-3-0.35
26	87-ZM5-214-010		LEVER,AUTO	G	87-ZM5-271-010		S-SCREW,1.4-2.6-STP
27	87-ZM5-204-010		LEVER ASSY,FF	I	87-B10-070-010		W-P,1.55-2.9-0.25 SLIT
28	87-ZM5-225-010		GEAR,FF/REW	J	87-B10-135-010		W-P,1.17-3-0.35
29	87-ZM5-206-010		LEVER ASSY,REW				
30	87-ZM5-332-010		LEVER,STOP REC				
31	87-ZM5-261-010		LEVER,AUTO 2S				
32	87-ZM5-253-010		BELT,MAIN				
33	87-ZM5-258-010		CAP,CAPSTAN				
34	87-ZM5-245-010		SPR-T,DIR				
35	87-ZM5-243-010		SPR-T,FF				

SPRING APPLICATION POSITION



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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