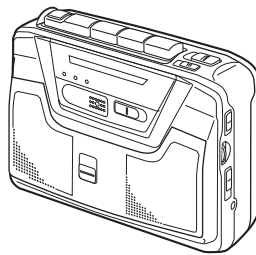


HS-JS385 YH YJ YL YZ
HS-JS385W YU



SERVICE MANUAL

STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : 7ZM-5 R3N

aiwa
S/M Code No. 09-989-302-6FP

REVISION

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-HJ7-906-010	--	IB, D (J) -IN<D>
1	88-HJ7-903-010		IB, Y (ESF) -I<YZ>
1	88-HJ7-904-010		IB, Y (GID) -I<YZ>
1	88-HJ7-905-010		IB, Y (POHCZ) -I<YZ>
1	88-HJ7-902-010		IB, YJ (ESC) -I<YH, YJ>
1	88-HJ7-908-010		IB, YL (ESP) -IN<YL>
1	88-HJ7-901-010		IB, YU (ESF) -I<YU>
2	87-B30-139-010	--	HEADPHONE, HP-M007(TL)<EXCEPT YU>
2	87-B30-081-010		HEADPHONE, HP-M009(S)<YU>
3	87-041-083-110	1F	CM-S40A
4	88-HJ7-951-010	--	CASE, CARRYING (NEW)

SPECIFICATIONS<YU, YH, YJ, YL, YZ>

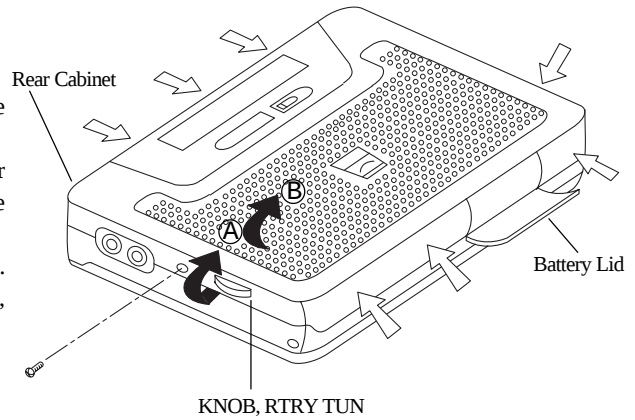
Frequency range	YJ,YH,YL,YZ: AM: 530 – 1605 kHz FM: 87.5 – 108 MHz YU: AM: 530 – 1710 kHz FM: 87.5 – 108 MHz	Battery life	EIAJ, 1 mW output, playback Approx. 5 hours using R6P (sizeAA) manganese batteries Approx. 22 hours using LR6 (size AA) alkaline batteries
Maximum output	20 mW + 20 mW (EIAJ/16W) 15 mW + 15 mW (EIAJ/32W)		EIAJ, 10 mW output, playback Approx. 3 hours using R6P (size AA) manganese batteries Approx. 10 hours using LR6 (size AA) alkaline batteries
Power source	Battery DC 3V, R6 (size AA) X 2 YJ,YH,YL,YU: Domestic AC power (using the optional AC adaptor: AIWA AC – 620 / AC – 302) YZ: Domestic AC power (using the optional AC adaptor: AIWA AC – 300 / AC – 302)		EIAJ, recording Approx. 3.5 hours using R6P (size AA) manganese batteries Approx. 13 hours using LR6 (size AA) alkaline batteries
Speaker	Diameter 36 mm, YJ,YH,YL,YU: 4W x 2 YZ: 6W x 2	Maximum dimensions (W x H x D) Weight	115.4 x 90.7 x 38.5 mm (4 ⁵ / ₈ x 3 ⁵ / ₈ x 1 ⁹ / ₁₆ inches) Approx. 205 g (7 oz) (excluding batteries)

- Design and specifications are subject to change without notice.

DISASSEMBLY INSTRUCTIONS <YU, YH, YJ, YL, YZ>

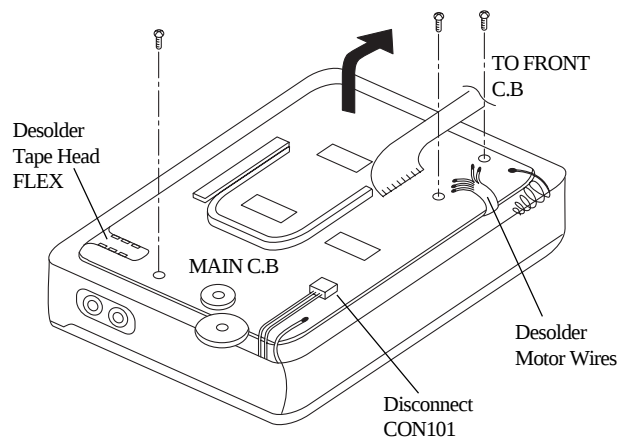
• REMOVAL OF REAR CABINET

1. Remove one screw on the Rear Cabinet.
 2. Open the lid, battery.
 3. Push in the direction of the white bold arrows to release all the catches.
 4. With the gap generated from the above step, slip in your finger to remove the Rear Cabinet over the KNOB, RTRY TUN in the direction of the black arrow ㉠.
 5. Remove the Rear Cabinet in the direction of black arrow ㉡.
- * A FLEX is soldered onto the board on the Rear Cabinet, during disassembly, be careful not to damage this FLEX.



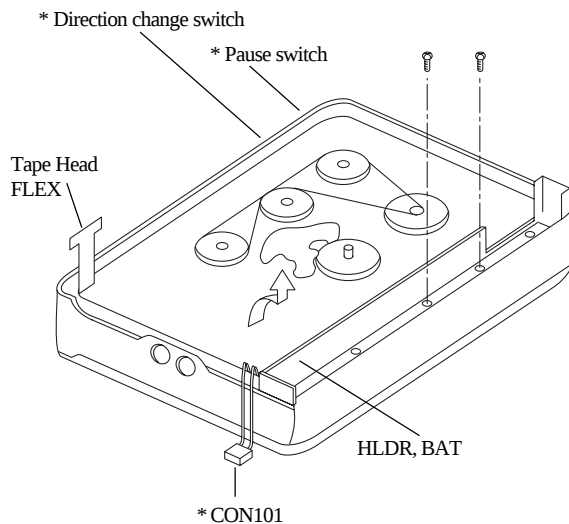
• REMOVAL OF THE MAIN C.B.

1. Remove 3 screws of the MAIN C.B.
2. Desolder the Tape Head FLEX and motor wires.
3. Disconnect the connector CON101.
4. Remove the MAIN C.B in the direction of the arrow.



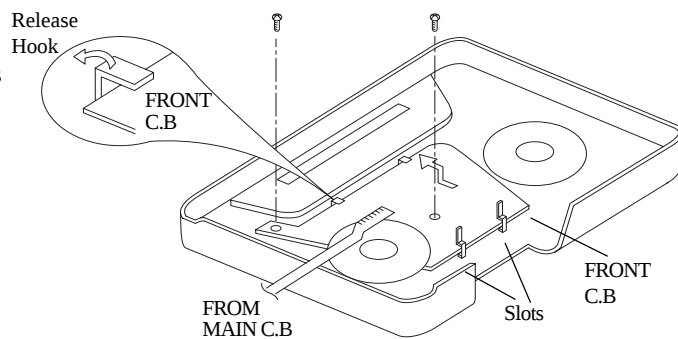
• REMOVAL OF MECHANISM

1. Remove 2 screws of the HLDR, BAT.
 2. Remove the mechanism in the direction of the bold arrow.
- * During assembly of mechanism, be sure that connector CON101 emerge out at the bottom as shown and the Direction change switch and pause switch are engaged.



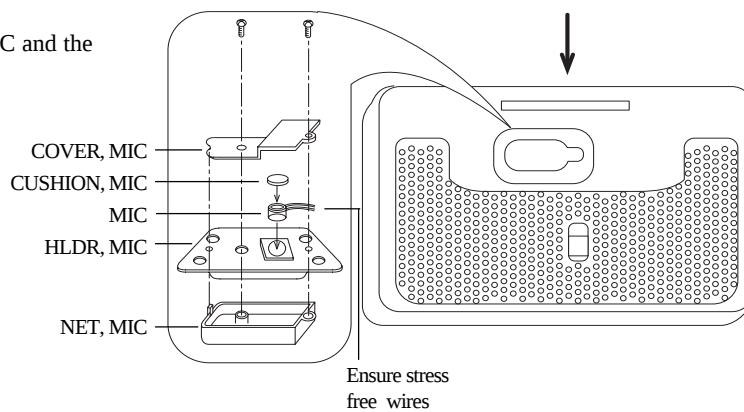
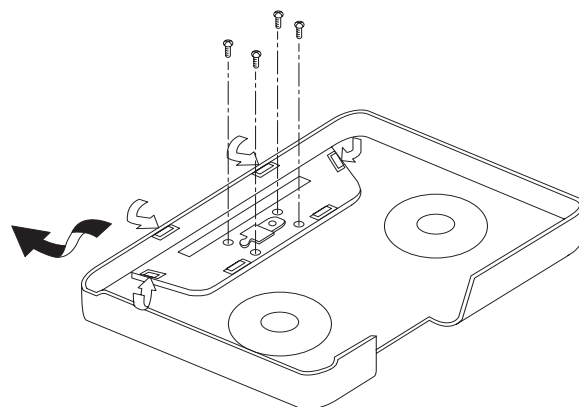
- REMOVAL OF THE FRONT C.B.

1. Remove 2 screws on the FRONT C.B.
2. Release the 2 hooks and slide the FRONT C.B out of the slots in the direction of the arrow.



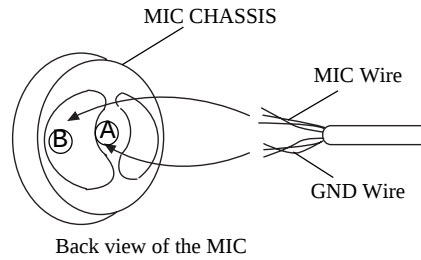
- REMOVAL OF THE BUILT-IN MIC

1. Remove 4 screws of the WINDOW, TUN.
2. Release the catches of the WINDOW, TUN by pushing in the directions of white arrows.
3. Remove the WINDOW, TUN in the black arrow direction.
4. Remove 2 screws of the COVER, MIC.
5. Remove the COVER, MIC.
6. Remove the CUSHION, MIC.
7. Remove the NET, MIC and the HLDR, MIC and the BUILT-IN, MIC can be removed.

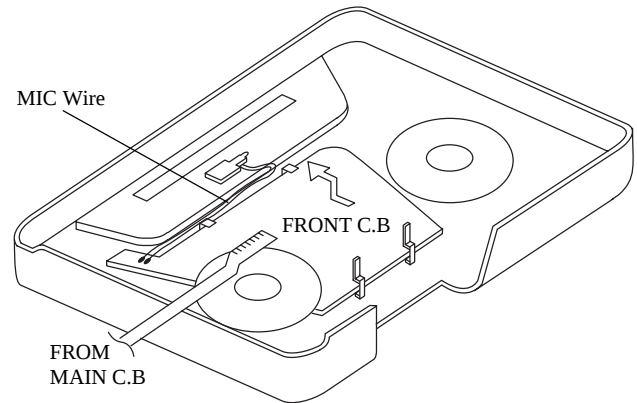


- HOW TO REPLACE THE BUILT-IN MIC

1. As shown illustration, the MIC has two solder points. One point **(A)** is linked to the MIC CHASSIS and the other point **(B)** is not.
Solder the GND wire (Black) to point **(A)** and the MIC wire (Brown) to point **(B)**.
2. Place the MIC and CUSHION, MIC into the HLDR, MIC make sure they are properly seated into the NET, MIC before reassembling.

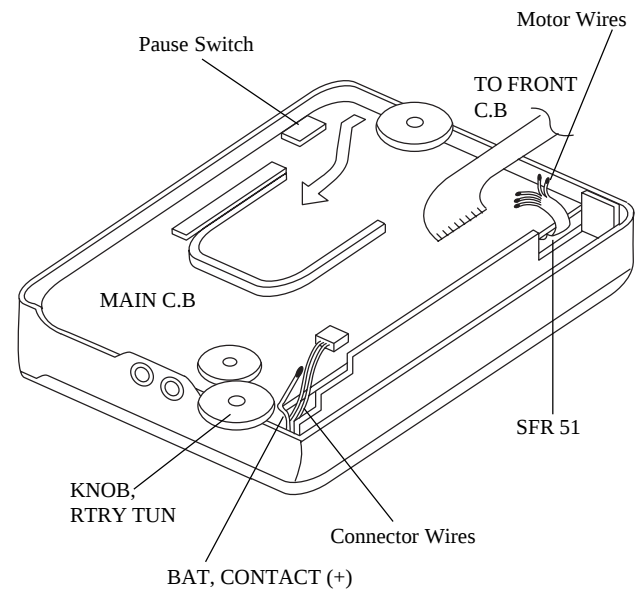


3. Arrange the MIC wires as shown so that it will not cause any obstructions.



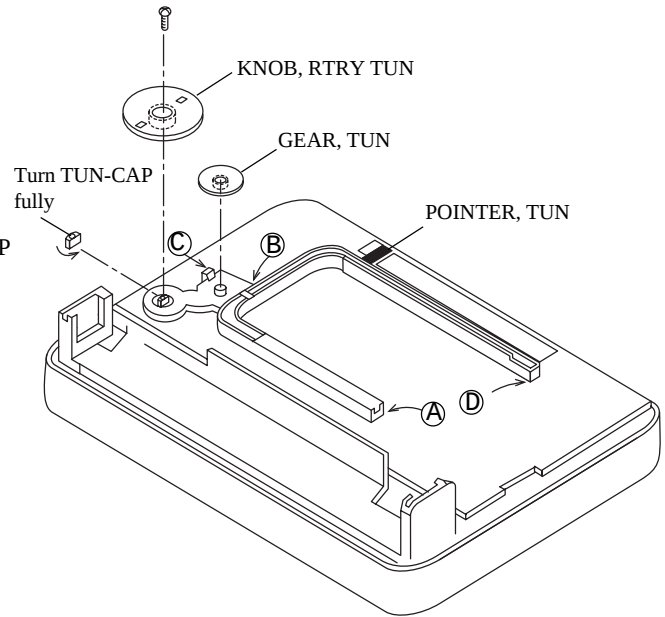
- REASSEMBLY OF MAIN BOARD

1. Slot in the MAIN C.B in the direction of the bold arrow.
2. Arrange the connector wires out through the hole and confirm that it does not obstruct the KNOB, RTRY TUN and batteries insertion.
3. Arrange the motor wires such that it does not obstruct SFR 51 and batteries insertion.
4. Confirm that pause switch is seated into the LEVER ASSY, DIR.



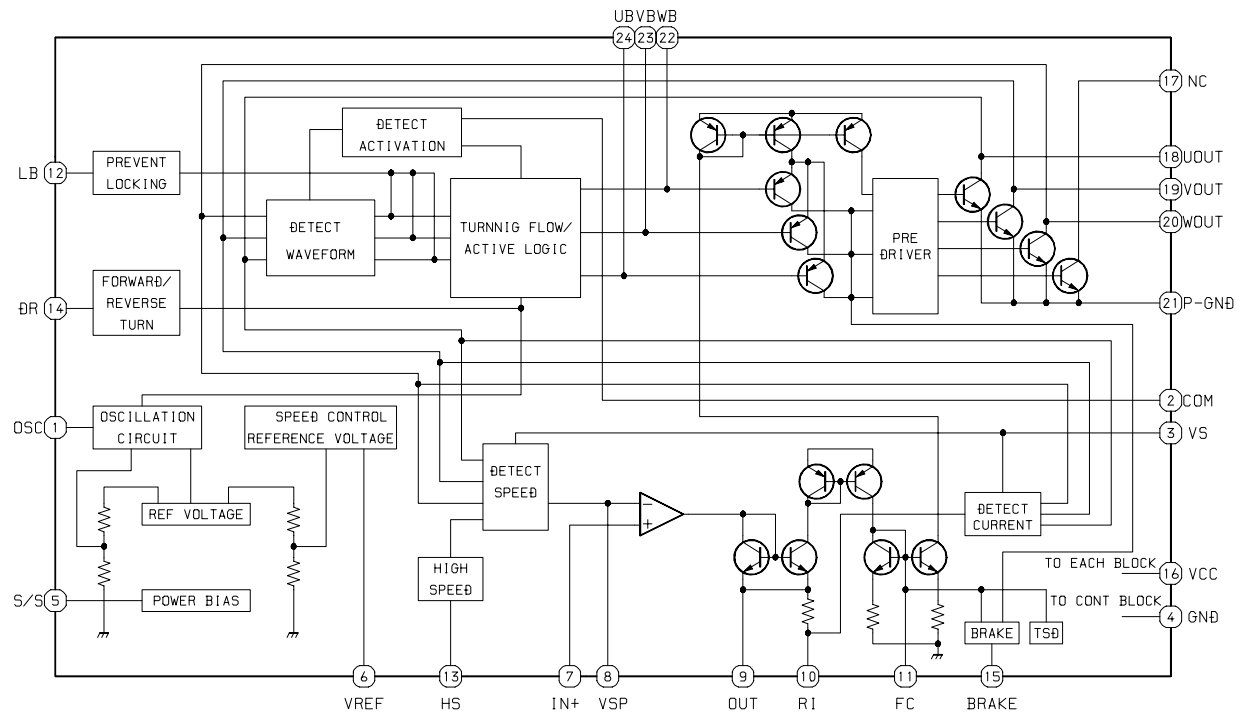
- HOW TO REASSEMBLE THE POINTER TUN, GEAR TUN AND KNOB RTRY TUN.

1. Slot in the POINTER, TUN until point ①.
2. With the larger center holes diameter of the GEAR, TUN facing down, insert it into point ② followed by point ③.
3. Before mounting of KNOB, RTRY TUN confirm POINTER, TUN is fully at point ① and turn the TUN-CAP fully, counter-clockwise.
4. Mount the KNOB, RTRY TUN and secure with the screw.
5. TUN KNOB, RTRY TUN to clockwise to confirm POINTER, TUN is able to move to point ④.

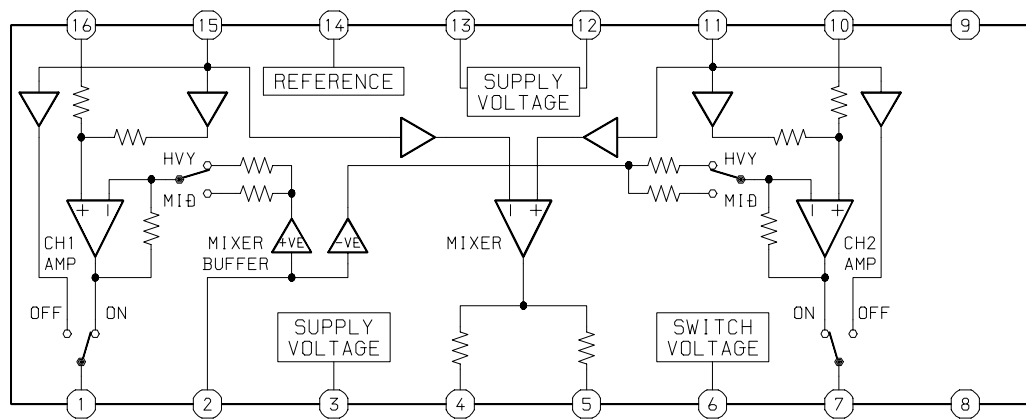


IC BLOCK DIAGRAM - 1

IC, LB1977M



IC, AN7322S



ELECTRCAL MAIN PARTS LIST

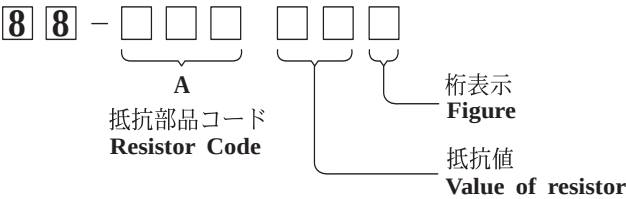
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C36	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF
	87-001-943-080	1F	IC,TA8155F	C51	87-A10-201-080	0E	C-CAP,S0.33-16 KB
	87-A20-532-040	1D	IC,LB1977M	C53	87-016-669-080	0E	C-CAP,S 0.1-25 K B
	87-A20-851-040	1C	C-IC,TA2111F	C54	87-010-196-080	0E	CHIP CAPACITOR,0.1-25
	87-017-643-080	1B	IC,MM1206XF	C55	87-016-526-080	0E	C-CAP,S 0.47-16 BK
	87-002-232-080	1C	IC,NJM2073M				
	87-001-371-080	1C	IC,LA4533M	C56	87-010-992-080	0E	C-CAP,S 0.047-25 B
	87-A20-968-040	--	C-IC,AN 7322S	C57	87-010-503-040	0E	CAP,E 220-4 GAS
TRANSISTOR				C58	87-010-196-080	0E	CHIP CAPACITOR,0.1-25
	89-502-094-040	--	C-FET,2SK209Y	C59	87-016-669-080	0E	C-CAP,S 0.1-25 K B
	87-026-261-080	0E	C-TR,RN1404	C60	87-016-669-080	0E	C-CAP,S 0.1-25 K B
	87-026-225-080	1A	FET,2SJ1066R				
	87-026-263-080	0E	C-TR,RN1410	C61	87-016-669-080	0E	C-CAP,S 0.1-25 K B
	87-A30-060-080	--	C-TR,KTC3875GR	C101	87-010-145-080		C-CAP,S 1P-50 CH<YU,YL,YH,YJ>
	87-A30-159-080	0E	C-TR,KTA1298Y	C101	87-010-147-080	0E	C-CAP,S 3P-50 CH<D,YZ>
	87-A30-061-080	--	C-TR,KTA1504GR	C102	87-012-150-080		C-CAP,S 20P-50 CH<YU,YL,YH,YJ>
	89-112-134-040	--	TR,2SA1213Y	C102	87-010-314-080	0E	C-CAP,S 22P-50 CH<D,YZ>
	87-026-235-080	0E	C-TR,DTC114EK<D,YZ>				
	89-333-266-080	0E	CHIP TR,2SC3326B	C103	87-010-312-080	0E	C-CAP,S 15P-50 CH<D>
DIODE				C103	87-012-159-080		C-CAP,S 24P-50 CH<YU,YL,YH,YJ>
	87-020-027-080	0E	CHIP-DIODE 1SS184	C103	87-010-315-080		C-CAP,S 27P-50 CH<YU>
	87-020-339-080	0E	CHIP DIODE,1SS226	C104	87-010-150-080		C-CAP,S 6P-50 CH<YU>
				C104	87-010-152-080	0E	C-CAP,S 8P-50 CH<EXCEPT YU>
MAIN C.B							
	88-HJ7-616-010	--	FF-CABLE, 10P	C105	87-010-197-080	0E	CAP, CHIP 0.01 DM
BPF101	87-008-406-080		BPF GFMB1<EXCEPT D>	C106	87-016-462-080	0E	C-CAP,S 1-16 F
BPF101	81-HW1-628-080	1B	CHIP BAND PASE FILTER<D>	C107	87-010-178-080	0E	CHIP CAP 1000P
C1	87-010-180-080	0E	C-CAP,S 1500P-50 BK<D,YZ>	C108	87-010-196-080	0E	CHIP CAPACITOR,0.1-25
C1	87-010-178-080		CHIP CAP 1000P<YU,YL,YH,YJ>	C109	87-016-462-080	0E	C-CAP,S 1-16 F
C2	87-010-180-080	0E	C-CAP,S 1500P-50 BK<D,YZ>	C110	87-010-196-080	0E	CHIP CAPACITOR,0.1-25
C2	87-010-178-080		CHIP CAP 1000P<YU,YL,YH,YJ>	C111	87-010-426-080	0E	C-CAP,S 0.012-25 B
C3	87-016-462-080	0E	C-CAP,S 1-16 F	C112	87-010-426-080	0E	C-CAP,S 0.012-25 B
C4	87-016-462-080	0E	C-CAP,S 1-16 F	C113	87-012-141-080	0E	CHIP-CAPACITOR,0.22-16F
C5	87-010-322-080	0E	C-CAP,S 100P-50 CH	C114	87-012-141-080	0E	CHIP-CAPACITOR,0.22-16F
C6	87-010-322-080	0E	C-CAP,S 100P-50 CH	C115	87-016-462-080	0E	C-CAP,S 1-16 F
C7	87-010-177-080	0E	C-CAP,S 820P-50 SL	C116	87-A10-466-080	0E	C-CAP,TN 3.3-6.3 A TCF
C8	87-010-177-080	0E	C-CAP,S 820P-50 SL	C117	87-016-461-080	0E	C-CAP,S 0.47-16F
C9	87-010-426-080	0E	C-CAP,S 0.012-25 K B<D,YZ>	C118	87-010-178-080	0E	CHIP CAP 1000P
C9	87-010-191-080		CAP, CHIP 0.015 ZF<YU,YL,YH,YJ>	C119	87-010-503-040	0E	CAP,E 220-4 GAS
C10	87-010-426-080	0E	C-CAP,S 0.012-25 K B<D,YZ>	C120	87-010-197-080	0E	C-CAP,S 0.01 B K
C10	87-010-191-080		CAP, CHIP 0.015 ZF<YU,YL,YH,YJ>	C123	87-010-149-080		C-CAP,S 5P CH<YZ>
C11	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF	C125	87-010-178-080		C-CAP,S 1000P-50 BK<EXCEPT D>
C12	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF	C126	87-010-174-080	0E	C-CAP,S 470P-50 SL
C13	87-010-194-080	0E	CAP, CHIP 0.047	C129	87-010-175-080	0E	C-CAP,S 560P-50 SL
C14	87-010-194-080	0E	CAP, CHIP 0.047	C132	87-010-322-080		C-CAP,S 100P-50 SL<YL,YH,YJ,YZ>
C15	87-016-462-080	0E	C-CAP,S 1-16 F	C133	87-010-322-080	0E	C-CAP,S 100-50 CH<EXCEPT YU>
C16	87-016-462-080	0E	C-CAP,S 1-16 F	C401	87-012-142-080	0E	CAP, S 0.33-16
C17	87-016-462-080	0E	C-CAP,S 1-16 F	C402	87-012-142-080	0E	CAP, S 0.33-16
C18	87-016-462-080	0E	C-CAP,S 1-16 F	C404	87-016-462-080	0E	C-CAP,S 1-16 F
C20	87-012-140-080	0E	CAP 470P	C451	87-016-462-080	0E	C-CAP,S 1-16 F
C21	87-010-178-080	0E	CHIP CAP 1000P	C501	87-016-462-080		C-CAP,S 1-16 F<YZ>
C22	87-A10-584-080	1A	C-CAP,TN 100-4V	C502	87-016-462-080	0E	C-CAP,S 1-16 F
C23	87-A10-422-080	0E	C-CAP,TN 10-4 A TCF	C503	87-010-197-080	0E	CAP, CHIP 0.01 DM
C24	87-A10-422-080	0E	C-CAP,TN 10-4 A TCF	C504	87-010-942-080	0E	E/CAP GAS 47-4
C25	87-016-462-080	0E	C-CAP,S 1-16 F	C651	87-010-589-040	--	CAP,E 330-2
C26	87-016-462-080	0E	C-CAP,S 1-16 F	C653	87-012-141-080	0E	CHIP-CAPACITOR,0.22-16F
C27	87-010-179-080	0E	CAP,CHIP S B1200P	C654	87-012-141-080	0E	CHIP-CAPACITOR,0.22-16F
C28	87-010-179-080	0E	CAP,CHIP S B1200P	C655	87-016-468-080	--	C-CAP,TN 33-4 F93 B
C29	87-010-503-040	0E	CAP,E 220-4 GAS	C656	87-010-178-080	0E	CHIP CAP 1000P
C30	87-016-461-080	0E	C-CAP,S 0.47-16F	C657	87-010-822-040	0E	CAP,E 220-4 MMJ
C31	87-016-462-080	0E	C-CAP,S 1-16 F	C701	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF
C32	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF	C702	87-010-197-080	0E	CAP, CHIP 0.01 DM
C33	87-016-462-080	0E	C-CAP,S 1-16 F Z<D,YZ>	C703	87-010-184-080	0E	CHIP CAPACITOR 3300P(K)
C34	87-016-462-080	0E	C-CAP,S 1-16 F Z<D,YZ>	C704	87-010-197-080	0E	CAP, CHIP 0.01 DM
				C705	87-010-183-080	0E	C-CAP,S 2700P B K
				C706	87-010-197-080	0E	CAP, CHIP 0.01 DM
				C707	87-012-156-080	0E	C-CAP,S 220-50 CH
				C708	87-010-197-080	0E	CAP, CHIP 0.01 DM
				C709	87-010-501-040	0E	E/CAP GAS 47-4
				C710	87-A10-419-080	0E	C-CAP,TN 1-16 A TCF
				C711	87-A10-419-080	0E	C-CAP,TN 1-16 A TCF
				C712	87-010-198-080	0E	C-CAP,S 0.022-25 K B
				C713	87-010-198-080	0E	C-CAP,S 0.022-25 K B
				C714	87-016-462-080	0E	C-CAP,S 1-16 F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C715	87-016-462-080	0E	C-CAP,S 1-16 F	SP601	88-HJ7-613-010	--	SPKR, 80HM
C716	87-A10-422-080	0E	C-CAP,TN 10-4 A TCF	SP602	88-HJ7-613-010	--	SPKR, 80HM
C751	87-016-462-080	0E	C-CAP,S 1-16 F	SW601	87-036-146-080	1A	C-SLIDE SWITCH 1-1-4
C752	87-016-462-080	0E	C-CAP,S 1-16 F				
C753	87-010-426-080	0E	C-CAP,S 0.012-25 BK<D,YZ>				
			HEAD FLEX C.B				
C753	87-010-193-080		CHIPCAPACITOR 0.033<YU,YL,YH,YJ>				
C755	87-010-426-080	0E	C-CAP,S 0.012-25 B	PH1	88-HJ7-615-010	1H	HEAD ASSY,7ZM-5 R3N
C756	87-012-365-080	0E	C-CAP,S 0.027-25 BK<D,YZ>				
C756	87-010-195-080		C-CAP,S 0.068-25 F<YU,YL,YH,YJ>				
C757	87-A10-422-080		C-CAP,TN 10-4 ATCF<YU,YL,YH,YJ>	BAR ANT C.B			
C757	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF<D,YZ>				
C758	87-010-195-080	0E	C-CAP,S 0.068-25 F				
C759	87-010-942-080	0E	E/CAP GAS 47-4				
C760	87-A10-418-080	0E	C-CAP,TN 22-4 A TCF				
C761	87-010-195-080	0E	C-CAP,S 0.068-25 F				
CF101	87-A90-849-080	--	C-FLTR,PFWCC 455J3				
CF102	87-A90-812-010	--	FLTR,KIT				
CON101	87-A60-661-010	--	CONN,3P H (ZR)				
J1	87-A60-122-010	0E	JACK,DC 3.8				
J2	85-HRL-623-010	0E	JACK,3.5 ST BLK				
J701	87-A60-474-010	--	JACK,3.5MM 5PINSTEREO				
L1	87-003-240-080	0E	C-COIL,S 3.3UH				
L2	87-003-240-080	0E	C-COIL,S 3.3UH				
L3	87-003-240-080	0E	C-COIL,S 3.3UH				
L51	87-003-089-010	0E	CHOKE COIL				
L101	88-HJ7-614-010	--	BAR-ANT,MW				
L102	88-HJ7-610-010		COIL,FM RF<EXCEPT D>				
L102	88-HJ7-617-010	--	COIL,FM RF D<D>				
L103	88-HJ7-611-010		COIL,FM OSC<EXCEPT D>				
L103	88-HJ7-618-010	--	COIL,FM OSC D<D>				
L104	87-A50-288-080	--	C-COIL,AM OSC 270UH				
L105	87-A90-934-010	--	IFT,MW 5L H6.4				
L601	87-003-089-010	0E	CHOKE COIL				
L651	87-003-089-010	0E	CHOKE COIL				
L701	87-A50-289-080	--	C-COIL,OSC 50 KHZ				
LED451	87-A90-276-080	0E	C-LED,SML-210MT GRN				
LED452	87-A90-711-080	--	C-LED,SML-210YTT YEL				
LED453	87-A90-278-080	0E	C-LED,SML-210VT RED				
M701	82-TP3-609-010	1C	ECM				
PVC1	87-A90-851-010		TUN-CAP,7.5-20P<EXCEPT D>				
PVC1	87-A90-899-010	--	TUN-CAP,7.5-40P<D>				
SFR51	87-A90-734-080	--	C-SFR,33K B RH03AXAN4X				
SW1	87-A90-850-010	--	SW,SL 2-2-3 SSSS8				
SW2	87-036-123-080	0E	CHIP SLIDE SWITCH,1-1-2				
SW3	87-A90-423-010	--	SW,LEAF				
SW4	87-A90-564-010	--	SW,LEAF MUTE				
SW5	87-A90-422-010	--	SW,SL 2-2-2				
SW51	87-036-123-080	0E	CHIP SLIDE SWITCH,1-1-2				
SW501	87-036-145-080		CHIP SWITCH SLIDE 1-1-3<YZ>				
SW701	87-036-082-010	1A	SLIDE SWITCH, 2-2-2				
TH51	87-A90-542-080	--	C-THMS,NTH5G2M35A472K04TE				
VR1	87-A90-915-080	--	VR,RTRY 20KCX2				
			FRONT C.B				
C601	87-010-197-080	0E	CHIP CAPACITOR S 0.01-25 BK				
C602	87-010-197-080	0E	CHIP CAPACITOR S 0.01-25 BK				
C603	87-010-184-080	0E	C-CAP,S 3300P-50 BK				
C604	87-010-184-080	0E	C-CAP,S 3300P-50 BK				
C605	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C606	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C607	87-A10-422-080	0E	C-CAP,TN 10-4 A TCF				
C608	87-A10-422-080	0E	C-CAP,TN 10-4 A TCF				
C609	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C610	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C611	87-016-461-080	0E	C-CAP,S 0.47-16F				
C612	87-016-461-080	0E	C-CAP,S 0.47-16F				
C613	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C614	87-010-197-080	0E	CAP, CHIP 0.01 DM				
C615	82-HJ5-612-010	0E	CAP,E 470-4 3.5MM				

○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

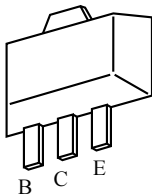


チップ抵抗

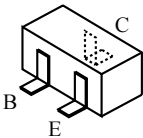
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions				抵抗コード Resistor	:A :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	

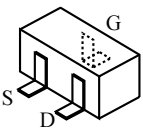
TRANSISTOR ILLUSTRATION



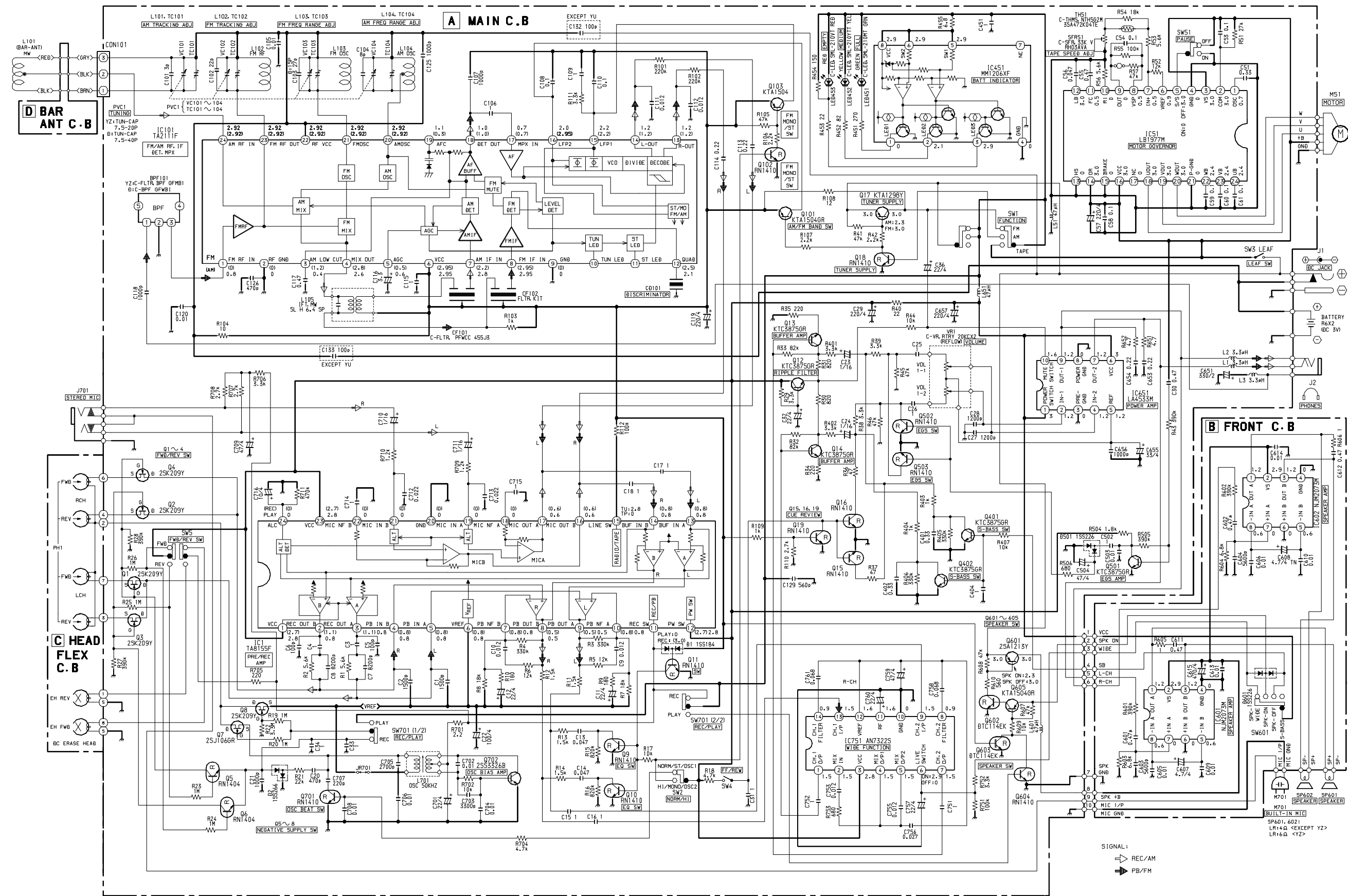
2SA1213

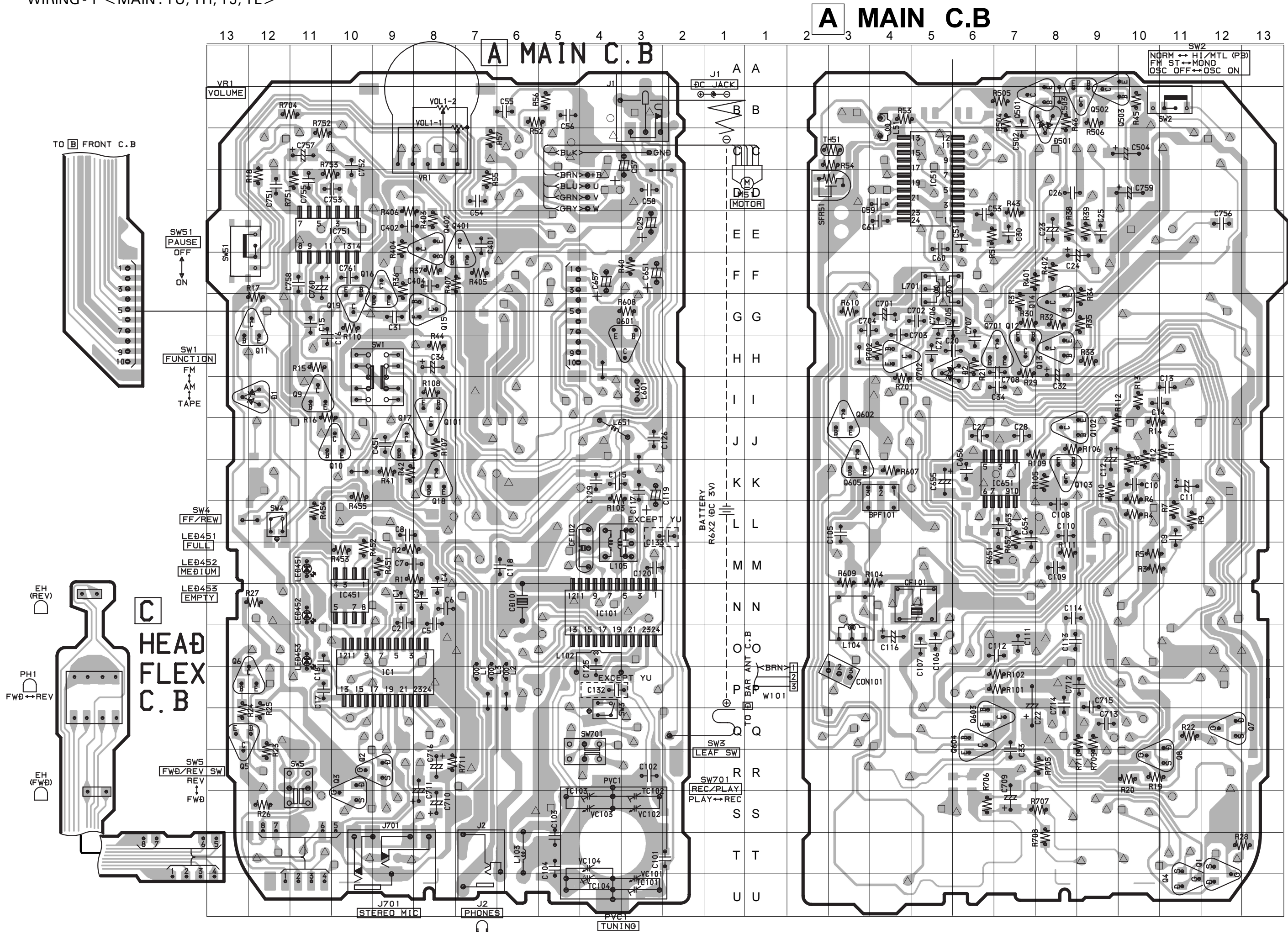


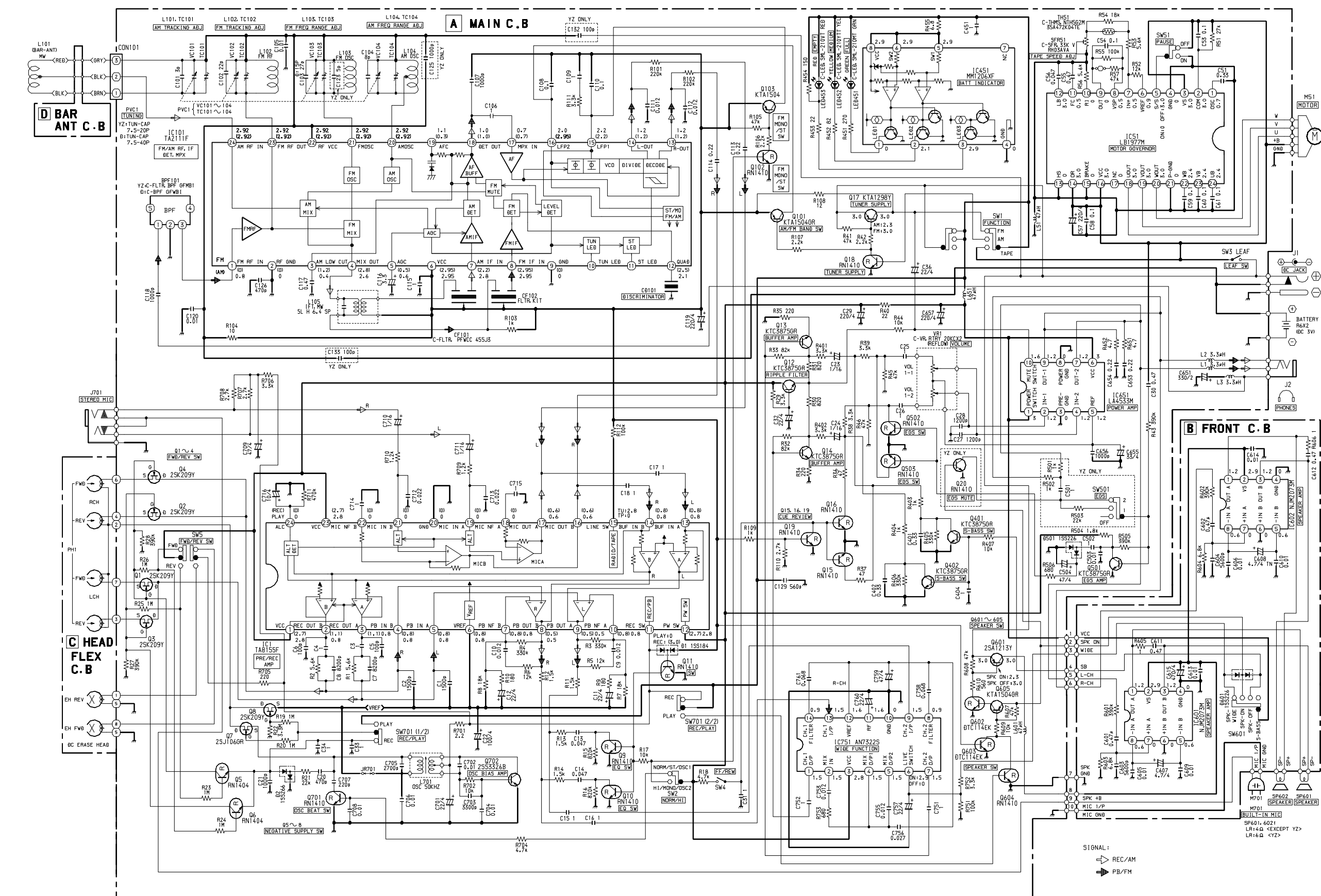
2SC3326
DTC114
KTA1298
KTA1504
KTC3875
RN1404
RN1410

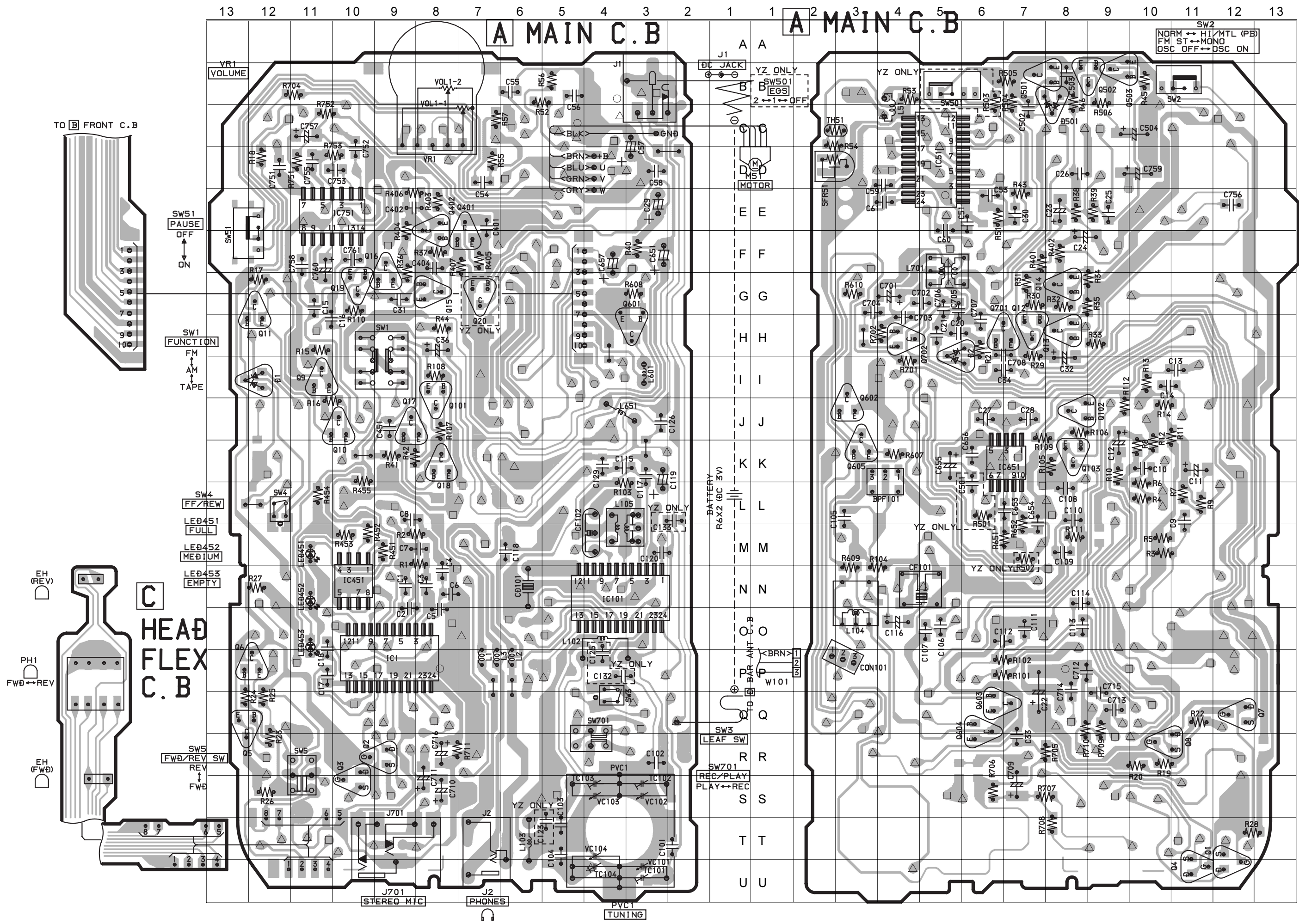


2SJ106
2SK209

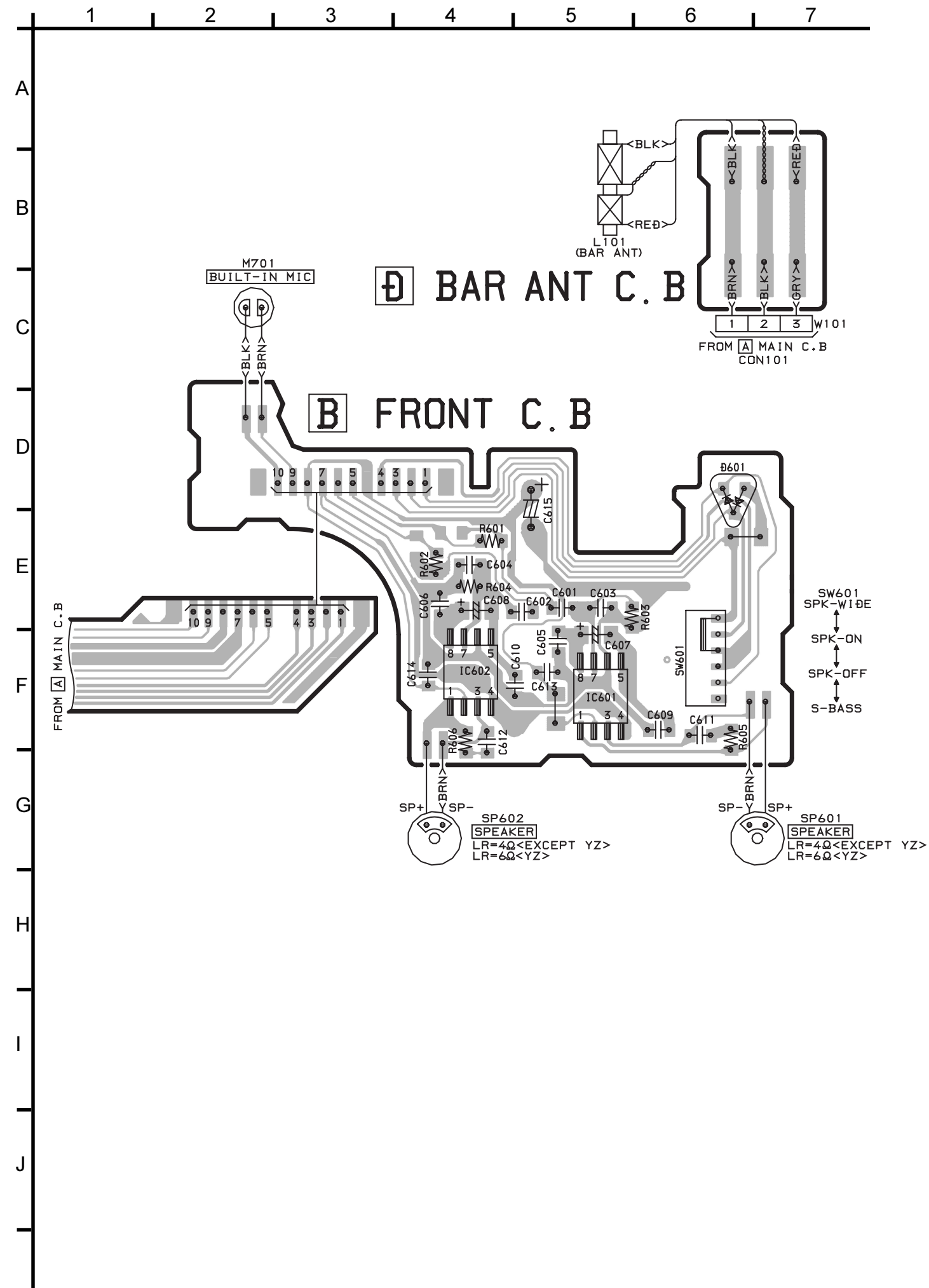




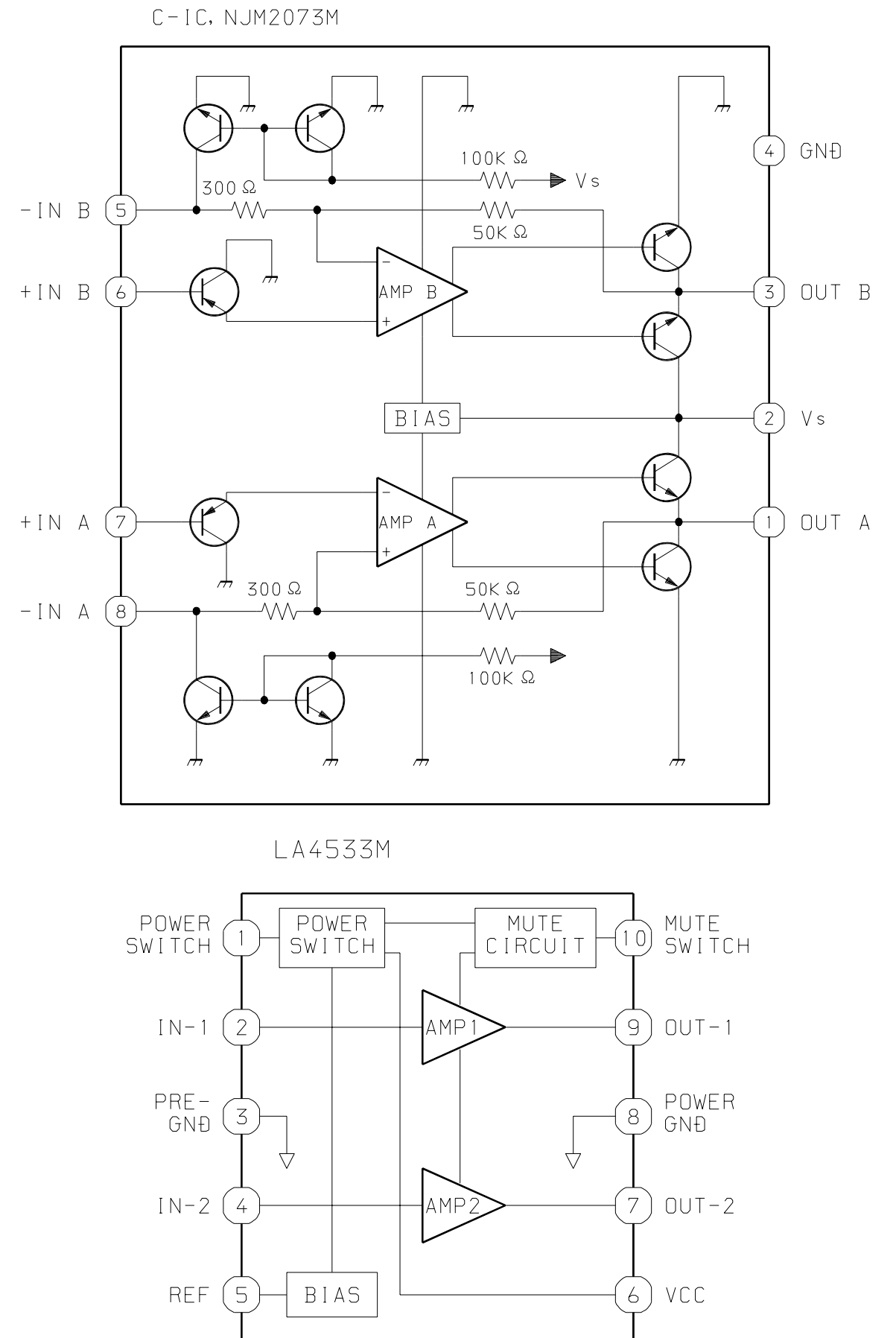




WIRING-3 <FRONT>

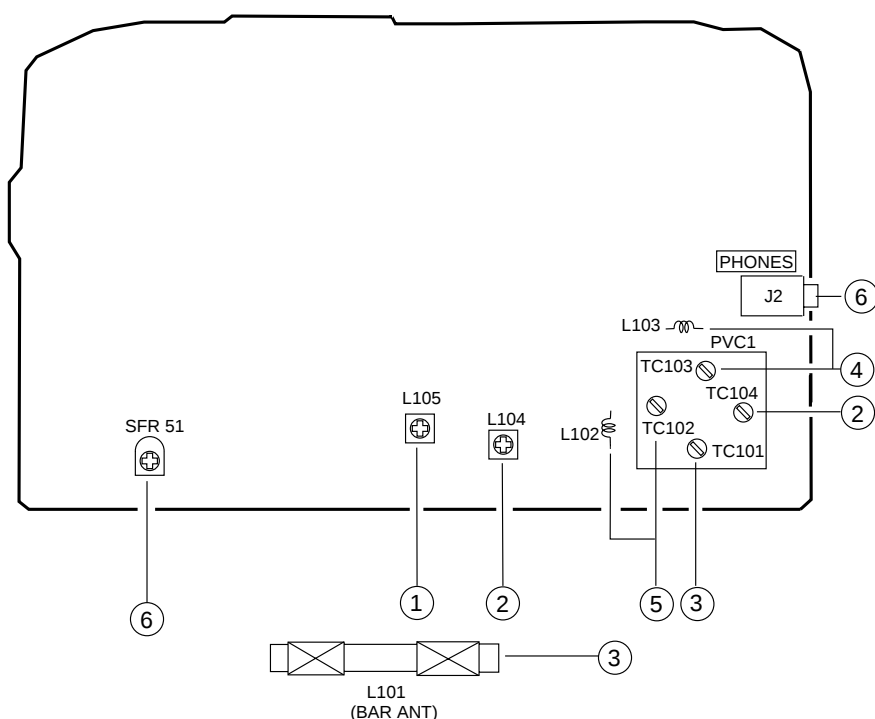


IC BLOCK DIAGRAM - 2



ADJUSTMENT<YU, YH, YJ, YL, YZ>

[A] MAIN C.B



<RADIO SECTION>

1. AM IF Adjustment

L105 450kHz

2. AM Frequency range Adjustment

L104 517 ± 5kHz (YU)
 L104 515 ± 5kHz (EXCEPT YU)
 TC104 1775 ± 10kHz (YU)
 TC104 1670 ± 10kHz (EXCEPT YU)

3. AM Tracking Adjustment

L101 600kHz
 TC101 1400kHz

4. FM Frequency range Adjustment

L103 87.4 ± 0.1MHz (EXCEPT YU)
 L103 87.0 ± 0.1MHz (YU)
 TC103 108.3 ± 0.1MHz (EXCEPT YU)
 TC103 109.0 ± 0.1MHz (YU)

5. FM Tracking Adjustment

L102 88.0MHz
 TC102 108.0MHz

<TAPE PLAYER SECTION>

6. Tape Speed Adjustment

Settings : • Test tape : TTA-100
 • Test point : PHONES JACK (J2)
 • Adjustment location : SFR51
 • Super BASS : OFF
 • Tape/radio : TAPE
 • Tape select : NORM
 • Direction : FORWARD
 • Volume : NON-CLIP
 (MAX -10dB DOWN)

Method : Play back the test tape and adjust for 3015 ± 10Hz
 (FWD) and FWD SPEED ± 45Hz(REV).

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

Sensitivity :

(IHF, THD 3%)

FM Less than 19dB

[at 76 / 90 / 108MHz]<D>

[at 88 / 96 / 108MHz]<EXCEPT D>

AM Less than 59dB [at 600kHz]

Less than 59dB [at 1000kHz]

Less than 56dB [at 1400kHz]

Intermediate frequency : FM 10.7MHz ± 0.1MHz

AM 455kHz ± 3kHz

FM stereo separation : More than 16dB[at 98.0MHz]<EXCEPT D>
 [at 90MHz]<D>

<TAPE SECTION>

Tape speed :

3015Hz ± 60Hz

Wow & flutter :

Less than 0.45% (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% (PB, DC)

Less than 10% (REC/PB, DC)

Noise level :

Less than 7.0mV

(Vol MAX, PB, DC)

Less than 22.0mV

(VOL MAX, REC/PB, DC)

Frequency response :

63Hz + 1/-6dB ~ 8kHz + 4/-4dB

(NORMAL)

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

(CrO2, METAL)

Test tape :

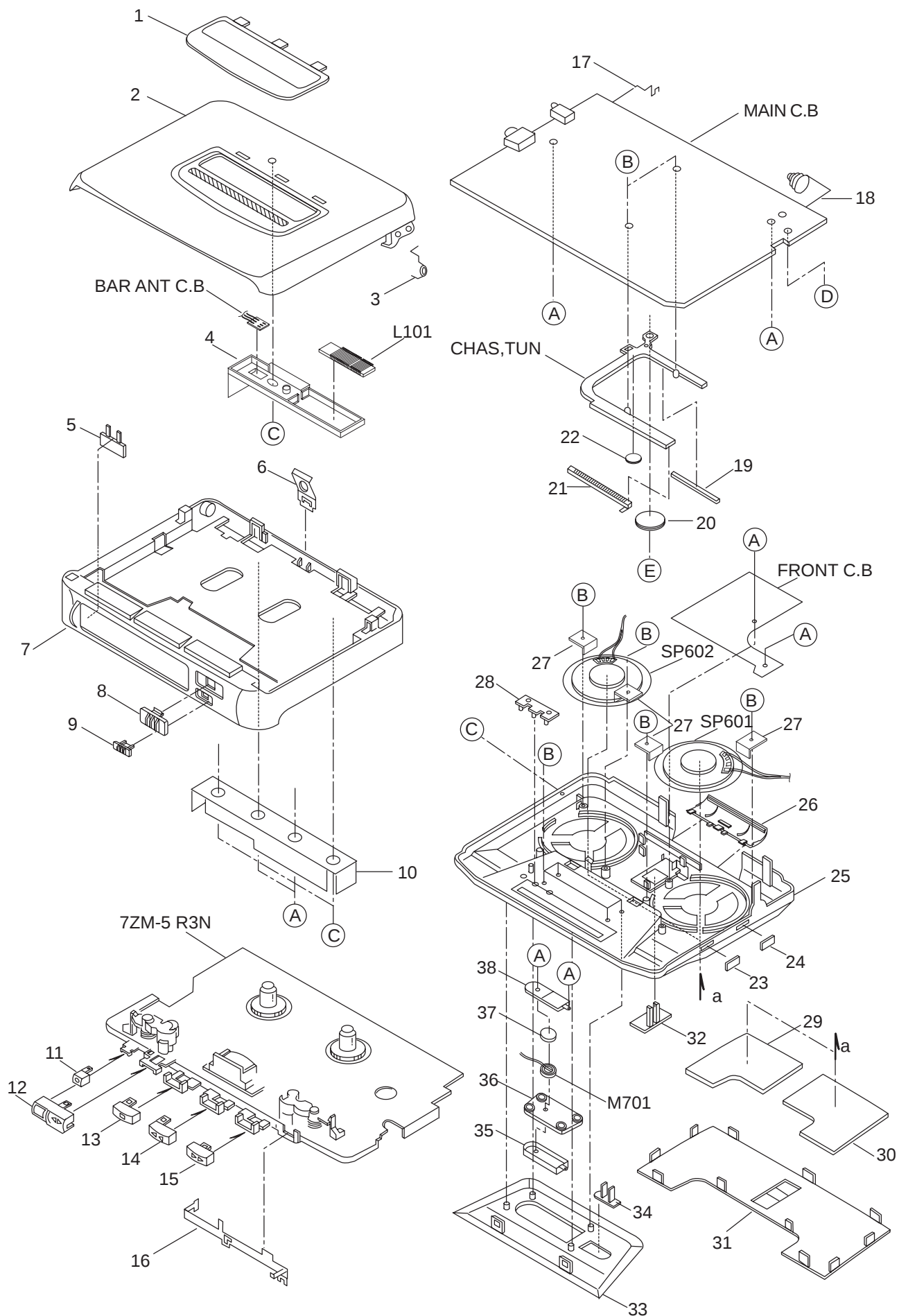
TTA- 100

TTA- 210

TTA- 320 (120μ)/310 (70μ)

TTA- 602

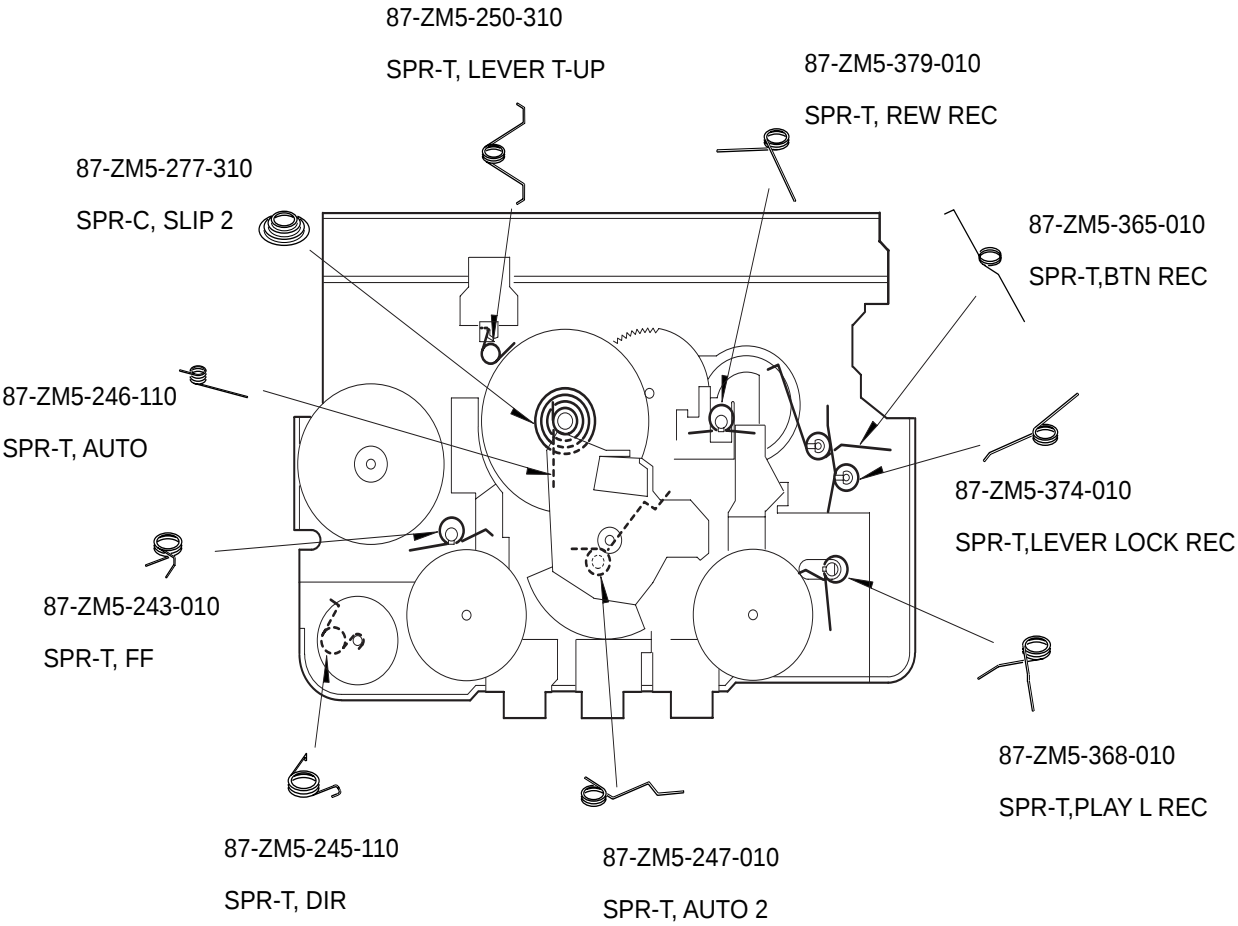
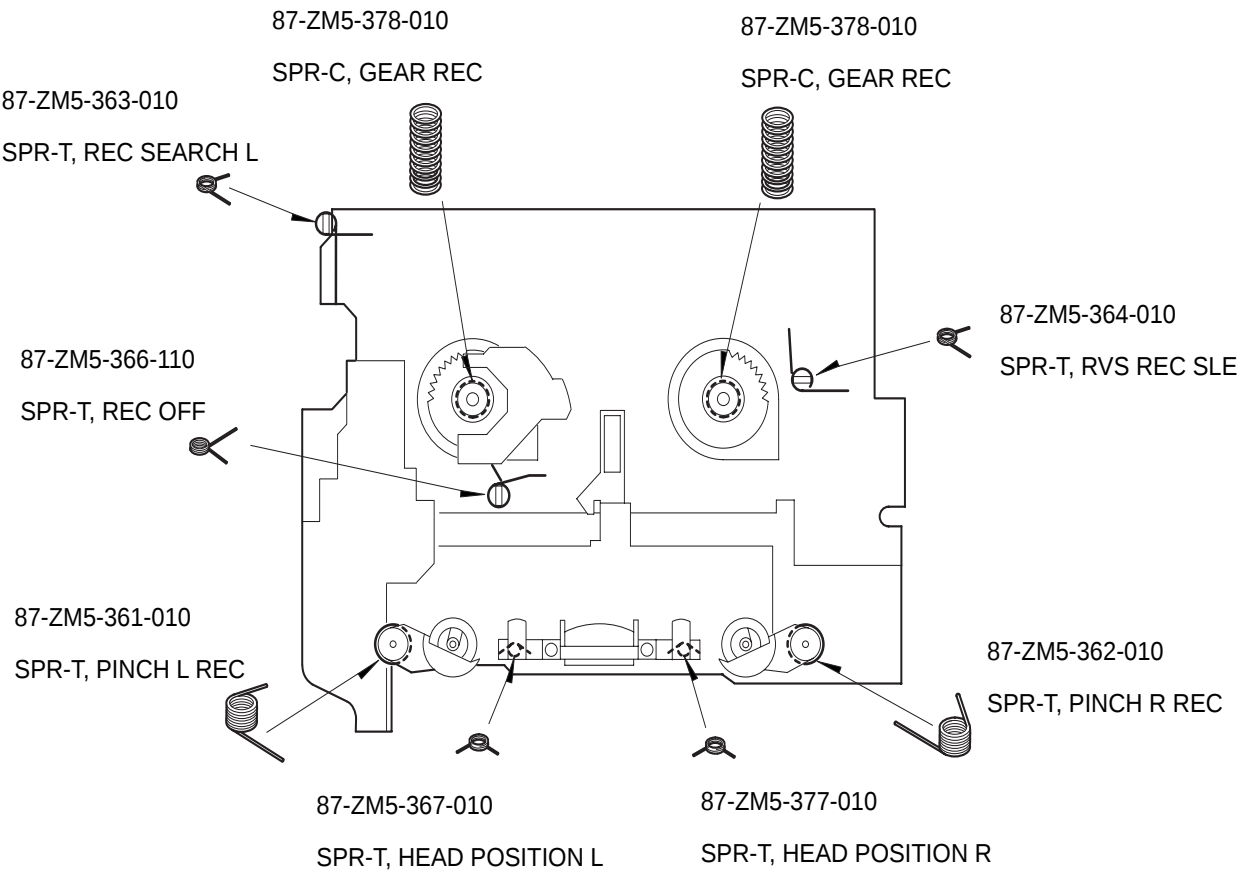
MECHANICAL EXPLODED VIEW 1 / 1

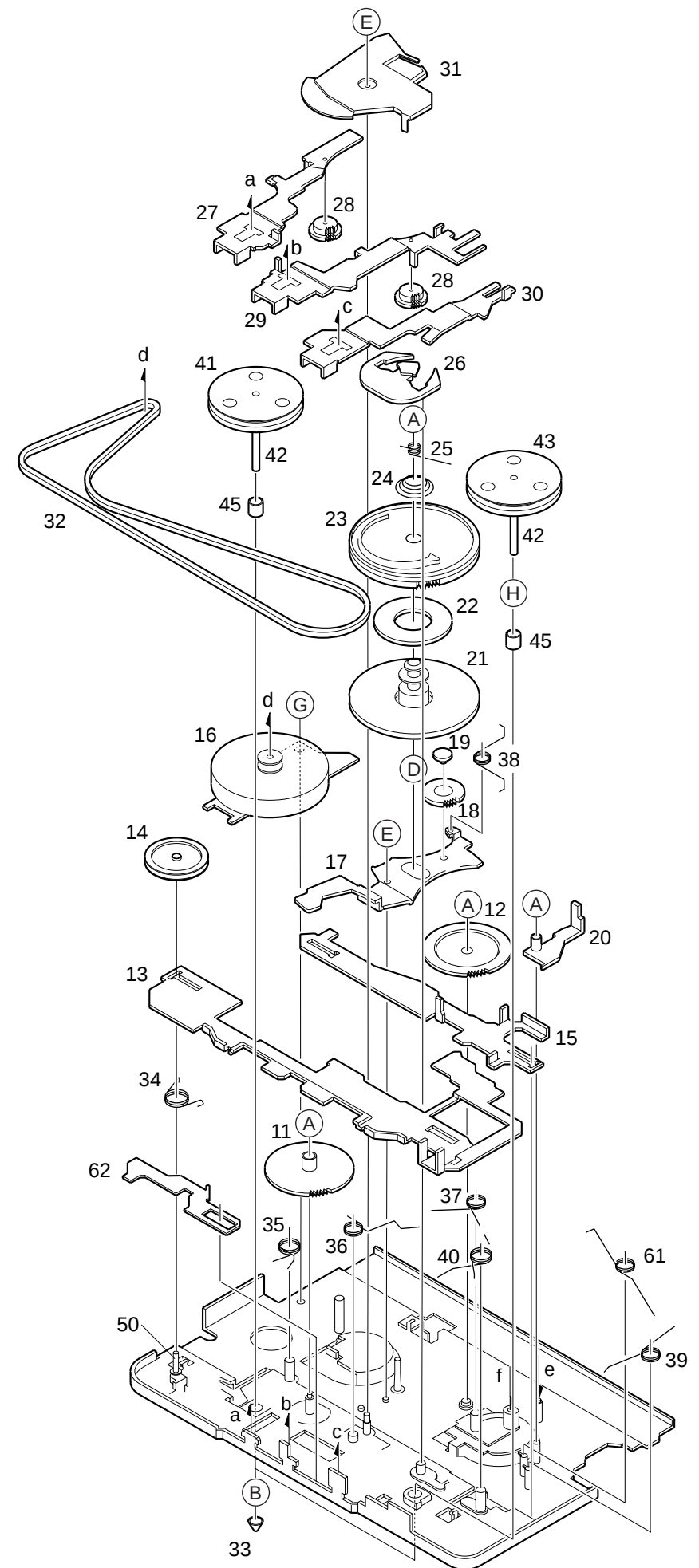
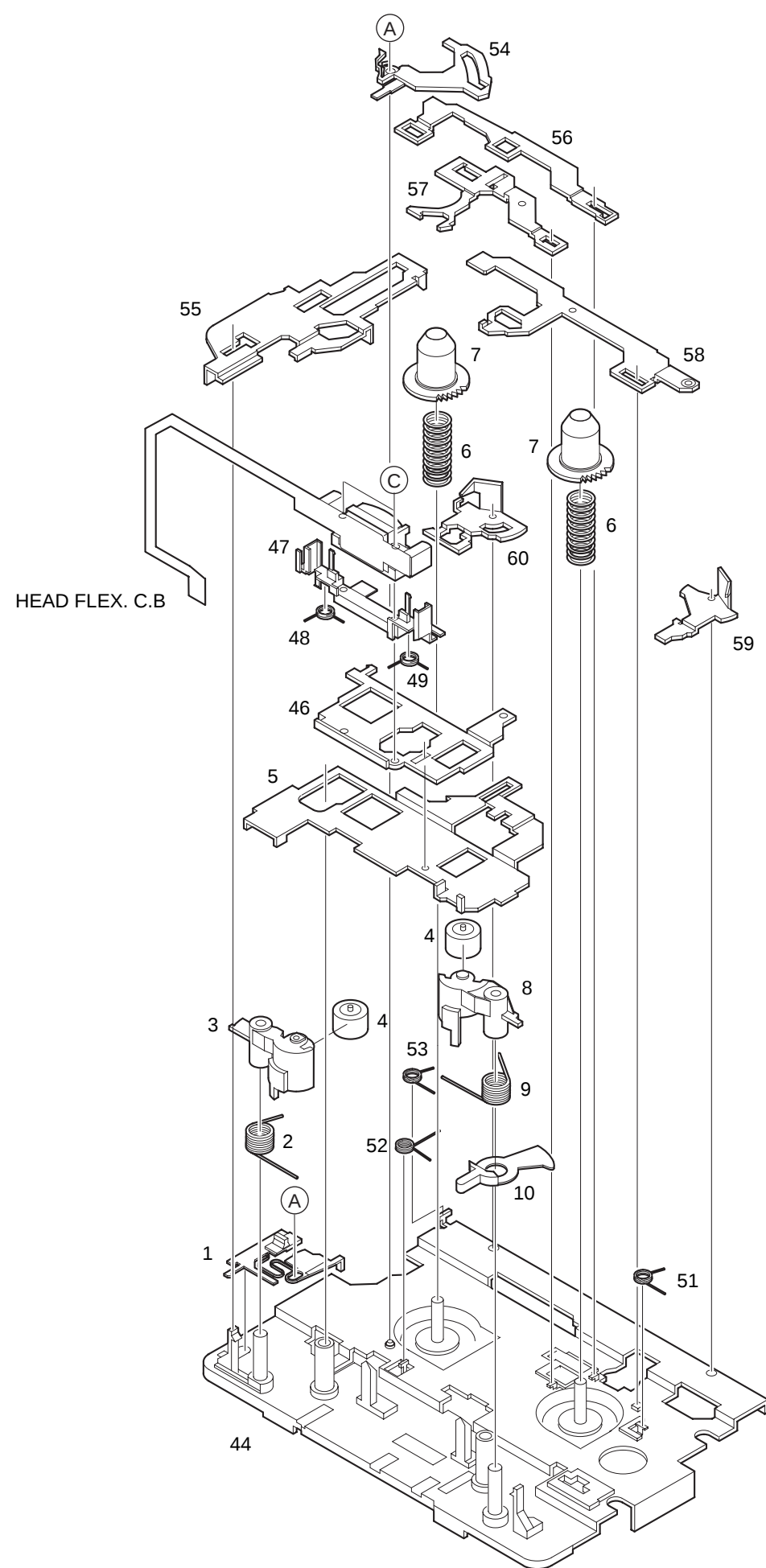


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-HJ7-005-010	--	WINDOW,CASS
2	88-HJ7-001-010	--	LID,CASS
3	83-HRJ-202-010	0E	T-SP,CLICK
4	88-HJ7-213-010	--	HLD, BAR-ANT
5	88-HJ7-040-010	--	PLATE,IND DIR
6	81-HK9-208-210	0E	SPR-P,CASS A
7	88-HJ7-002-010		FRAME,CTR<YU,YL,YH,YJ>
7	88-HJ7-029-010	1C	FRAME,CTR S<D>
7	88-HJ7-028-010		FRAME,CTR YZ<YZ>
8	88-HJ7-045-010	--	KNOB,SL FR
9	88-HJ7-020-010	--	KNOB,SL PAUSE
10	88-HJ7-209-010	--	HLD, BAT
11	88-HJ7-009-010	--	BTN, REC
12	88-HJ7-010-010	--	BTN, PLAY
13	88-HJ7-011-010	--	BTN, STOP
14	88-HJ7-012-010	--	BTN, REW
15	88-HJ7-013-010	--	BTN, FF
16	88-HJ7-210-010	--	LEVER, PAUSE
17	88-HJ7-207-010	--	BAT-CONTACT, +
18	88-HJ7-208-010	--	BAT-CONTACT, -
19	88-HJ7-205-010	--	COVER, TUN
20	88-HJ7-015-010	--	KNOB, RTRY TUN
21	88-HJ7-014-010	--	POINTER, TUN
22	88-HJ7-202-010	--	GEAR, TUN
23	88-HJ7-019-010	--	KNOB, SL FM
24	88-HJ7-018-010		KNOB, SL EGS<YZ>
25	88-HJ7-032-010		CABI, FR<YU,YL,YH,YJ>
25	88-HJ7-033-010	1B	CABI, FR S<D>
25	88-HJ7-003-010		CABI, FR YZ<YZ>
26	88-HJ7-004-010	--	LID, BAT
27	88-HJ7-214-010	--	HLD, SPKR
28	88-HJ7-022-010	--	LENS, LED
29	88-HJ7-217-010	0E	GAUZE PANEL, L
30	88-HJ7-216-010	0E	GAUZE PANEL, R
31	88-HJ7-007-010		PANEL, SPKR<EXCEPT D>
31	88-HJ7-042-010	1H	PANEL, SPKR S<D>
32	88-HJ7-016-010	--	KNOB, SL SB
33	88-HJ7-006-010		WINDOW, TUN<YL,YH,YJ>
33	88-HJ7-036-010	--	WINDOW, TUN S<D>
33	88-HJ7-034-010		WINDOW, TUN WYU<YU>
33	88-HJ7-035-010		WINDOW, TUN YZ<YZ>
34	88-HJ7-017-010	--	KNOB, SL FN
35	88-HJ7-008-010	--	NET, MIC
36	88-HJ7-203-010	--	HLD, MIC
37	88-HJ7-212-010	--	CUSHION, MIC
38	88-HJ7-204-010	--	COVER, MIC
A	87-067-384-010	0E	SCREWVT1.4-3.5HL
B	87-067-732-010	0E	TAPPING SCREW, VT1.4-3
C	87-067-527-010	0E	SCREW, VT+1.4-2.5 (B)
D	87-266-533-310	0E	SCREW V+1.7-6
E	87-264-525-310	0E	SCREW, V+1.7-2.5

SPRING APPLICATION POSITION





TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZM5-314-110	0E	LEVER,MODE SEL REC	41	87-ZM5-236-010	1A	FLY-WHL,R
2	87-ZM5-361-010	0E	SPR-T,PINCH L REC	42	87-ZM5-345-010	1A	CAPSTAN,REC 1.8-0
3	87-ZM5-351-010	0E	ARM,PINCH L REC	43	87-ZM5-235-010	1A	FLY-WHL,L
4	87-ZM5-279-110	0E	ROLLER ASSY,PINCH L	44	87-ZM5-301-410	1C	CHAS ASSY,OUT-SERT REC
5	87-ZM5-324-110	1A	LEVER,PLAY MS	45	87-ZM5-260-110	0E	CLR,BEARING
6	87-ZM5-378-010	0E	SPR-C,BT REC	46	87-ZM5-329-010	0E	LEVER,HEAD
7	87-ZM5-354-110	0E	GEAR,REEL REC	47	87-ZM5-313-110	0E	HLDR,HEAD
8	87-ZM5-352-010	0E	ARM,PINCH R REC	48	87-ZM5-367-010	0E	SPR-T,HEAD POSITION L
9	87-ZM5-362-010	0E	SPR-T,PINCH R REC	49	87-ZM5-377-010	0E	SPR-T,HEAD POSITION R
10	87-ZM5-391-010	0E	BTN,DIR KNOB R3	50	87-ZM5-240-110	0E	SHAFT,PULLEY
11	87-ZM5-221-110	0E	GEAR,IDL A	51	87-ZM5-364-010	0E	SPR-T,RVS REC SLE
12	87-ZM5-222-210	0E	GEAR,IDL B	52	87-ZM5-366-110	0E	SPR-T,REC OFF
13	87-ZM5-339-010	1A	LEVER ASSY,DIR TP	53	87-ZM5-363-010	0E	SPR-T,REC SEARCH L
14	85-ZM1-212-110	0E	PULLY PM 2	54	87-ZM5-311-010	0E	LEVER,REC OFF
15	87-ZM5-335-110	0E	LEVER,LOCK REC	55	87-ZM5-336-110	1A	LEVER,BTN TP REC
16	M8-6ZS-391-000	1H	ABL-63B	56	87-ZM5-323-010	0E	LEVER,REC GUARD
17	87-ZM5-208-310	0E	LEVER ASSY,T-UP	57	87-ZM5-328-010	0E	LEVER,TRANSMIT
18	87-ZM5-223-010	0E	GEAR,PLAY	58	87-ZM5-327-010	0E	LEVER,RVS REC SEL
19	87-ZM5-259-210	0E	CAP,PLAY	59	87-ZM5-322-010	0E	LEVER,REC SEARCH R
20	87-ZM5-216-010	0E	LEVER,PLAY SW	60	87-ZM5-321-010	0E	LEVER,REC SEARCH L
21	87-ZM5-359-010	0E	GEAR,SLIP REC	61	87-ZM5-365-010	0E	SPR-T,BTN REC
22	87-ZM5-229-010	0E	FELT,CLUTCH	62	87-ZM5-330-010	0E	LEVER,CUE REV
23	87-ZM5-344-010	0E	GEAR,SLIP REC	A	87-B10-136-010	0E	W-P,1.09-3.1-0.4
24	87-ZM5-277-310	0E	SPR-C,SLIP 2	B	87-B10-070-010	0E	W-P,1.55-2.9-0.25 SLIT
25	87-ZM5-246-110	0E	SPR-T,AUTO	C	87-ZM5-385-010	0E	S-SCREW,EH+1.4-10.1
26	87-ZM5-214-410	0E	LEVER,AUTO	D	87-B10-180-010	0E	W-L,2.5-3.2-0.05 RED
27	87-ZM5-204-310	1A	LEVER ASSY,FF	E	87-B10-135-010	0E	W-P,1.17-3-0.35
28	87-ZM5-225-410	0E	GEAR,FF/REW	E	87-B10-151-010	0E	W-PVC,1.09-3.1-0.3
29	87-ZM5-349-110	1A	LEVER ASSY,REW REC	G	87-ZM5-271-110	0E	S-SCREW,1.4-2.6 -STP
30	87-ZM5-332-110	0E	LEVER,STOP REC	H	87-B10-107-010	0E	W-L,1.96-4.2-0.1
31	87-ZM5-261-610	0E	LEVER,AUTO 2 S				
32	87-ZM5-253-010	0E	BELT,MAIN				
33	87-ZM5-258-010	0E	CAP,CAPSTAN				
34	87-ZM5-245-110	0E	SPR-T,DIR				
35	87-ZM5-243-010	0E	SPR-T,FF				
36	87-ZM5-247-010	0E	SPR-T,AUTO 2				
37	87-ZM5-379-010	0E	SPR-T,REW REC				
38	87-ZM5-250-310	0E	SPR-T,LEVER T-UP				
39	87-ZM5-374-010	0E	SPR-T,LEVER LOCK REC				
40	87-ZM5-368-010	0E	SPR-T,PLAY L REC				

L ▶

A4 ▶

サービス技術ニュース	
番号	連絡内容
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Gー	ー
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アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111（代表）
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111