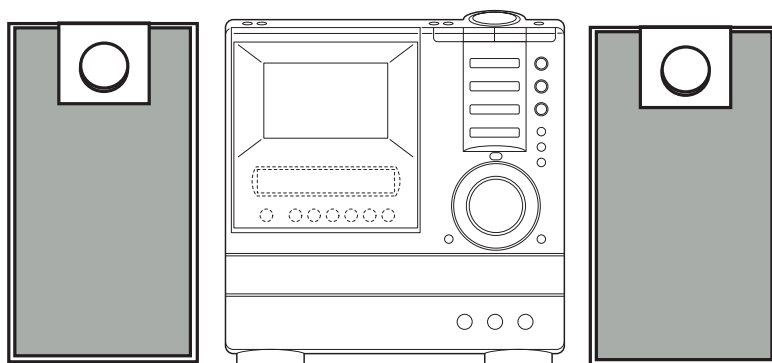


XS-G3 XS-G4 XS-G5

U,LH,EZ,K

EZ

EZ,K



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : BZM-1 R1NM
BASIC CD MECHANISM : BZG-5 ZD3NM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
XS-G3(U,LH)	CX-G3	SX-G3	RC-BAS11
XS-G3(EZ,K)	CX-G3	SX-G3	RC-BAS03
XS-G4(EZ)	CX-G4	SX-G4	RC-BAS11
XS-G5(EZ)	CX-G5	SX-G5	RC-BAS11
XS-G5(K)	CX-G5	SX-G5	RC-BAS03

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XS-G3 (U,LH,EZ,K) / XS-G4 (EZ) / XS-G5 (EZ,K), (S/M Code No. 09-012-441-5T1).
- If requiring information about the CD mechanism, see Service Manual of BZG-5, (S/M Code No. 09-00C-353-3N2)

aiwa

S/M Code No. 09-013-441-5R1

REVISION

DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	EZ,K: 16.8 dBf U,LH: 13.2 dBf
Antenna terminal	75 ohms (unbalanced)

<AM/MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	EZ,K: Rated: 40 W + 40 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN45500) Reference: 50 W + 50 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN45324) EZ: DIN MUSIC POWER: 121 W + 121 W U: 60 W + 60 W (50 Hz – 20 kHz, T.H.D. less than 1 %, 6 ohms) 75 W + 75 W (1 kHz, T.H.D. less than 10 %, 6 ohms) LH: Rated: 60 W + 60 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 75 W + 75 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	EZ,K: 0.08 % (25 W, 1 kHz, 6 ohms, DIN AUDIO) U,LH: 0.08 % (30 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 500 mV LH ONLY: MIC: 1.7mV (10 kohms)
Output	SPEAKERS: 6 ohms or more PHONES: 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Recording/playback x 1, erase x 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

<Speaker system SX–G3 / SX–G4>

Speaker system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer: 140 mm cone Tweeter: 60 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	165 x 328 x 225 mm
Weight	3.5 kg

<Speaker system SX–G5>

Speaker system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer: 140 mm cone Tweeter: 60 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	170 x 328 x 268 mm
Weight	3.8 kg

<General>

Power requirements	EZ,K: 230 V AC, 50 Hz U: 120 V AC, 60 Hz LH: 120 V / 220 – 230 V / 240 VAC (Switchable), 50 Hz / 60 Hz
Power consumption	U: 65 W LH: 85 W EZ: 70 W K: 78 W
Power consumption in standby mode	With ECO mode on: 0.6 W U,EZ,K: With ECO mode off: 17 W LH: With ECO mode off: 18 W
Dimensions of main unit (W x H x D)	U,EZ,K: 260 x 271.5 x 355 mm (10 ^{1/4} x 10 ^{3/4} x 14 in.) LH: 260 x 271.5 x 364 mm
Dimensions (W x H x D)	260 x 301 x 292 mm
Weight	U,EZ,K: 6.5 kg (14 lbs 5 oz) LH: 6.8 kg

• Design and specifications are subject to change without notice.

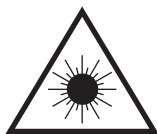
• The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

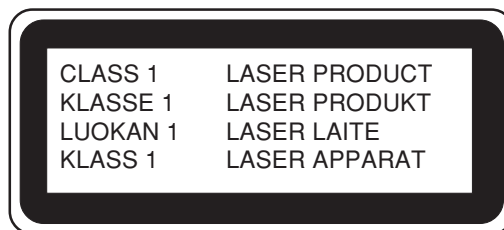
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

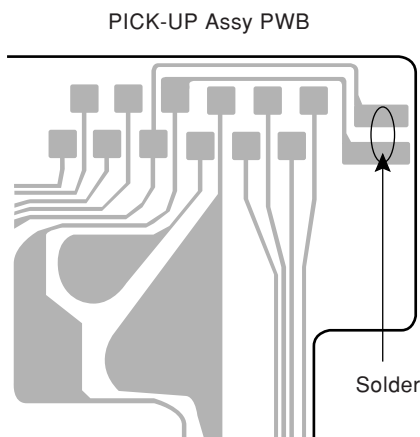


Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



NOTE ON BEFORE STARTING REPAIR

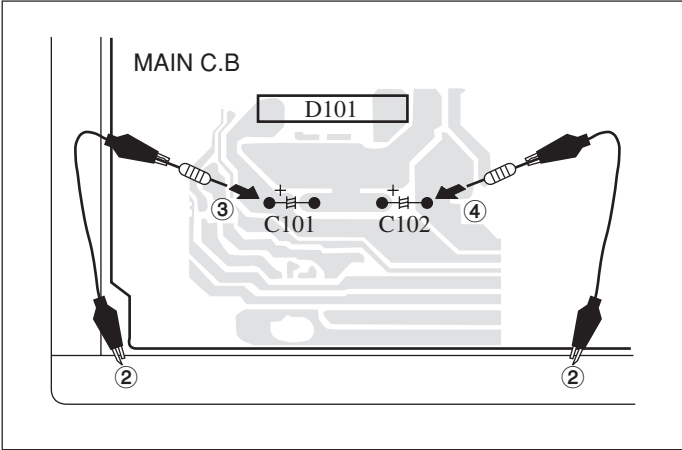
1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.



Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Fig-1

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is “H”, the MICROCOMPUTER is judged to be operating correctly. When this terminal is “L”, the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go “L” when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to “L”.

- Good or no good judgement of the MICROCOMPUTER
 - ① Turn on the AC main power.
 - ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the “H” level or not.
 - ③ When the HOLD terminal is “L” level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

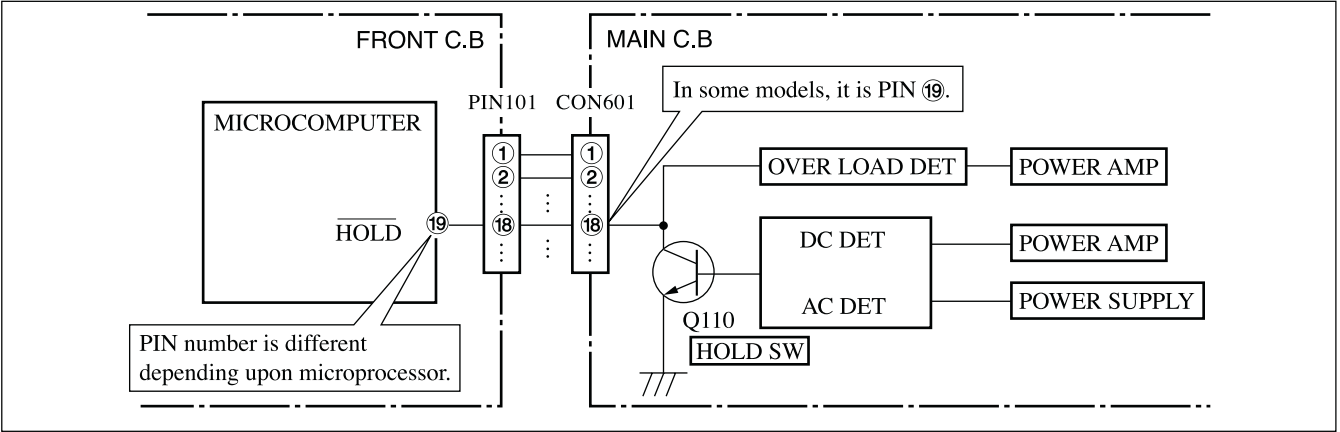


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

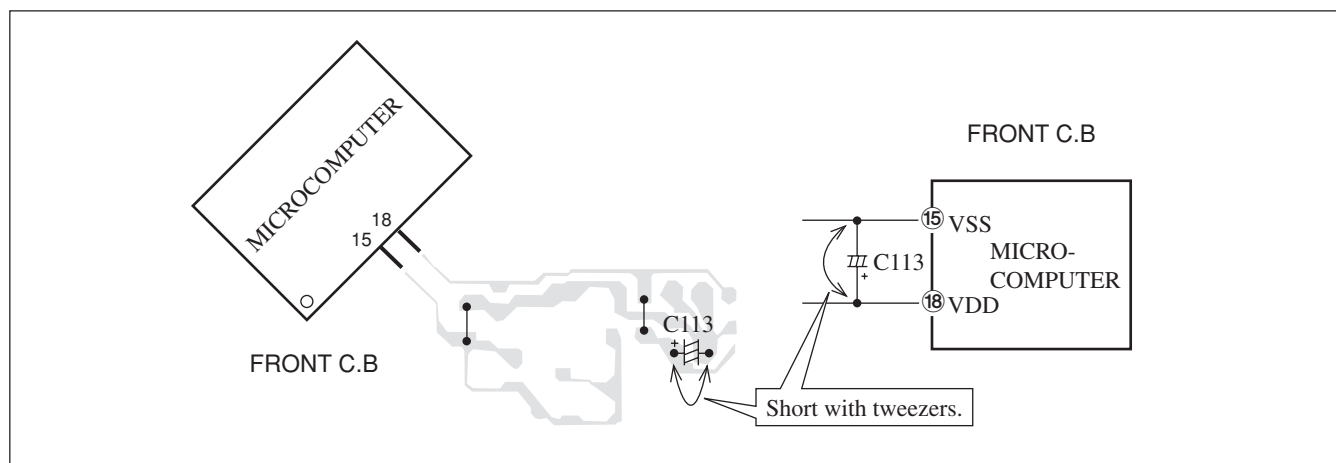


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

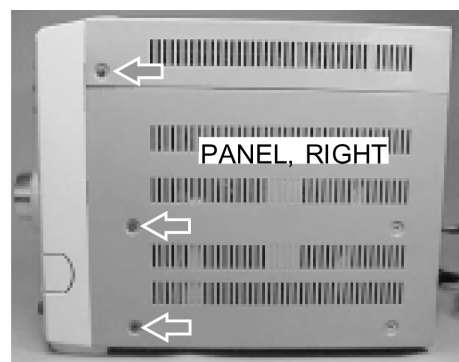
2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

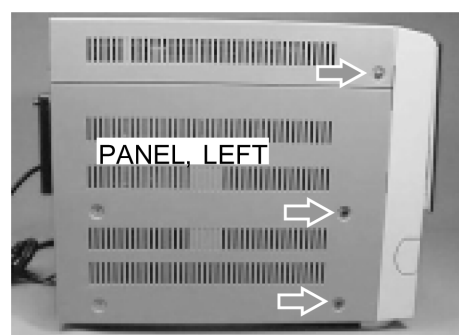
DISASSEMBLY INSTRUCTIONS

1. DISASSEMBLY OF MECHANISM DECK ASSY

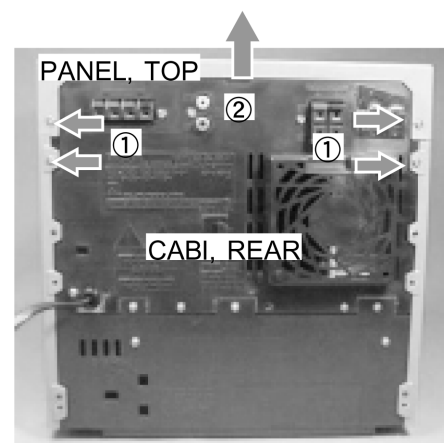
1) Remove the three screws.



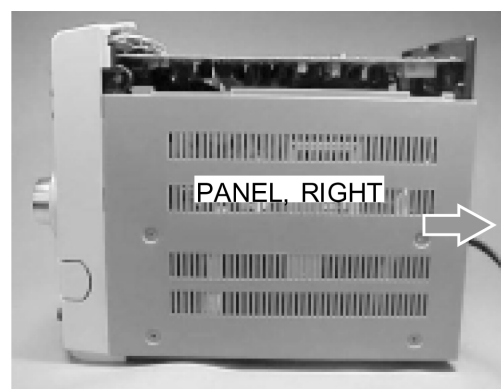
2) Remove the three screws.



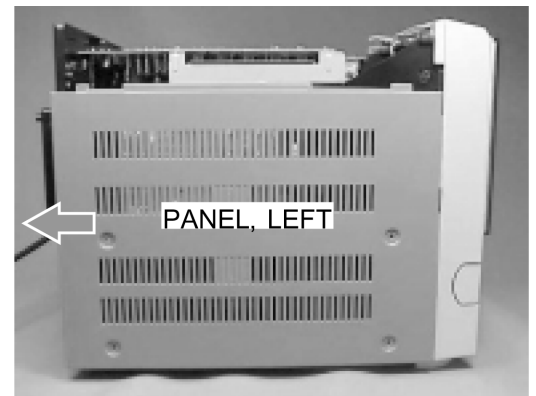
3) Remove the four screws (1) and remove the PANEL, TOP (2).



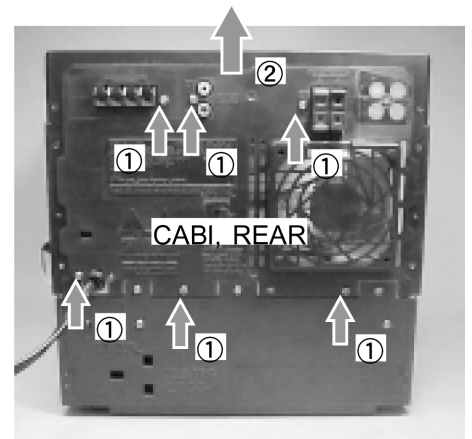
4) Remove the PANEL, RIGHT.



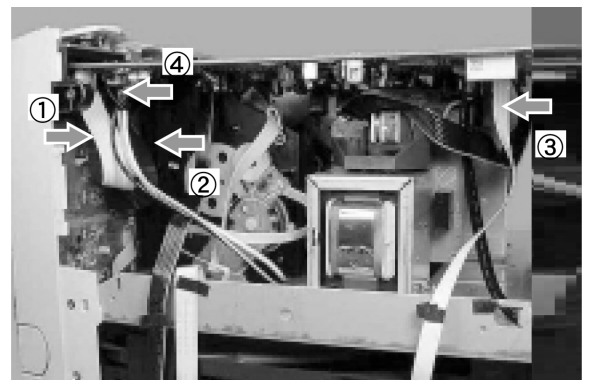
5) Remove the PANEL, LEFT.



6) Remove the six screws (1) and remove the CABI, REAR (2).



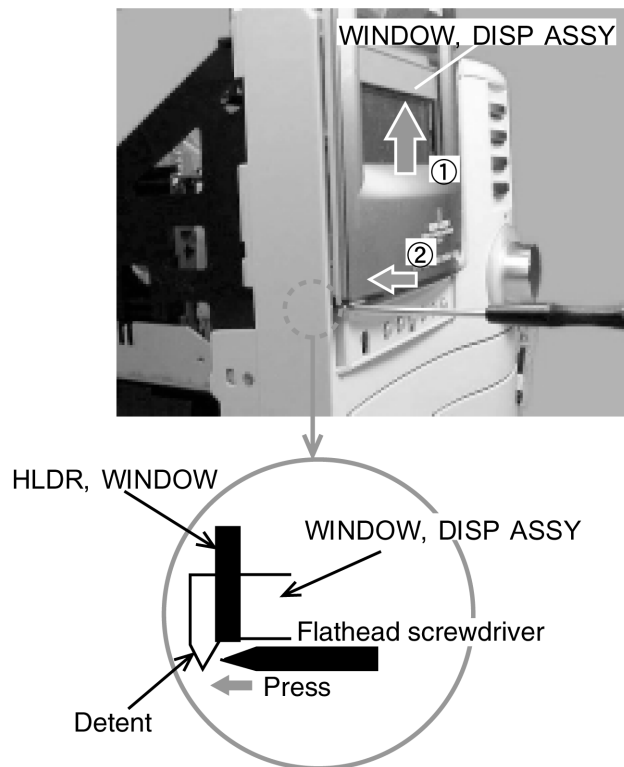
7) Remove the three FFCs (1), (2) (black) and (3), and remove the connector (4).



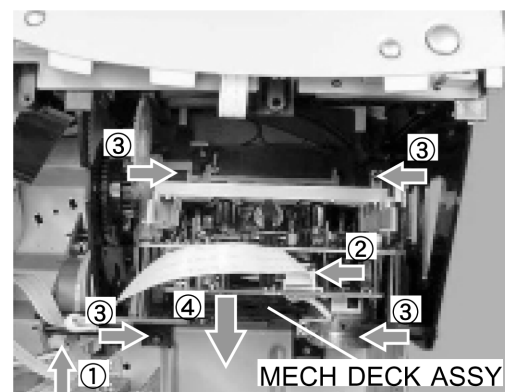
8) Remove the three screws (1) and remove the PWB, MAIN (2).



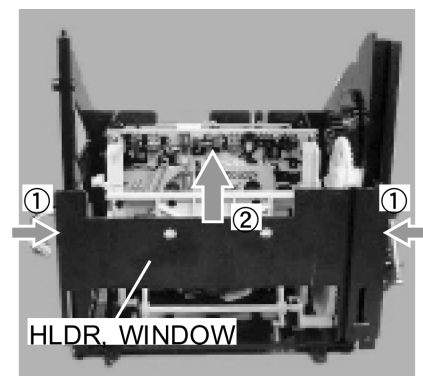
- 9) Slide up slightly the WINDOW, DISP ASSY (1).
Insert a thin flathead screwdriver into the slide groove and disengage the detents of the WINDOW, DISP ASSY (2) (in the left and right sides) and remove the WINDOW, DISP ASSY.



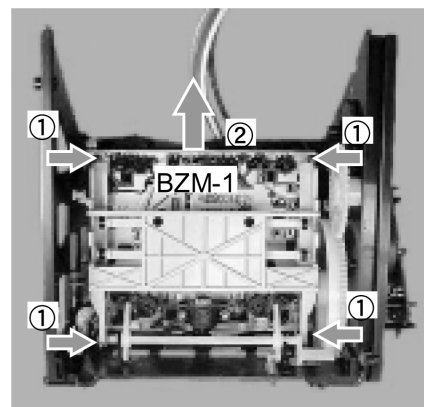
- 10) Remove the two FFCs (1) and (2), and the four screws (3) and remove the MECH DECK ASSY (4).



- 11) Remove the two screws (1) and remove the HLDR, WINDOW (2).

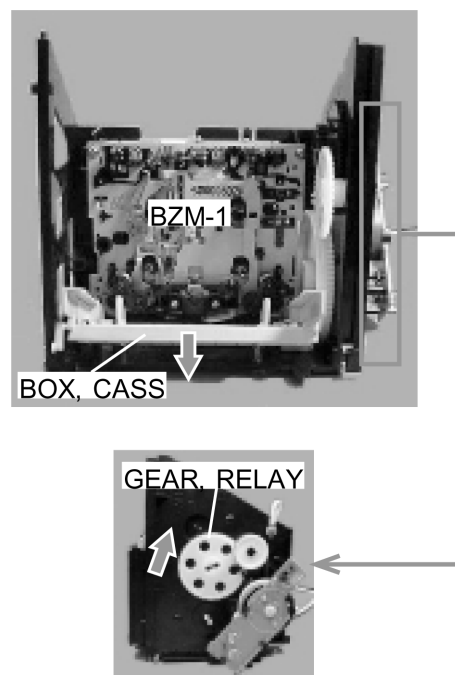


12) Remove the four screws (1) and remove the BZM-1 (2).

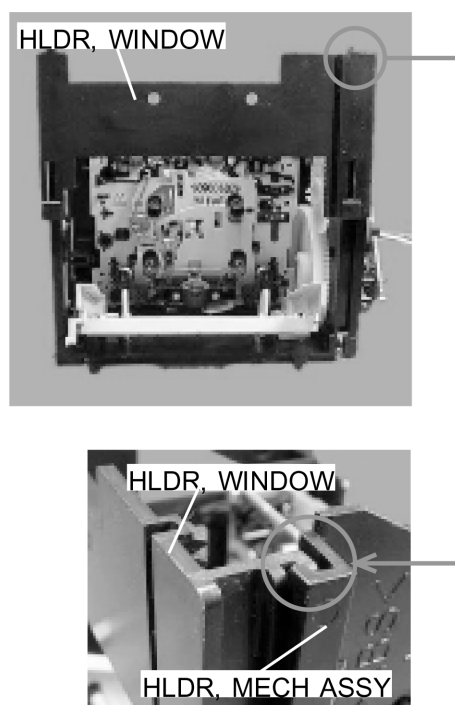


2. INSTRUCTIONS FOR ASSEMBLING MECHANISM DECK ASSY

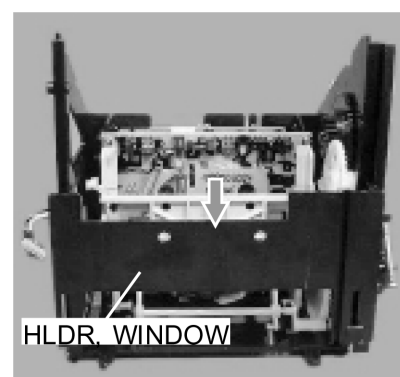
- 1) Install the BZM-1 and rotate the GEAR, RELAY clockwise until the BOX, CASS cannot move any more.



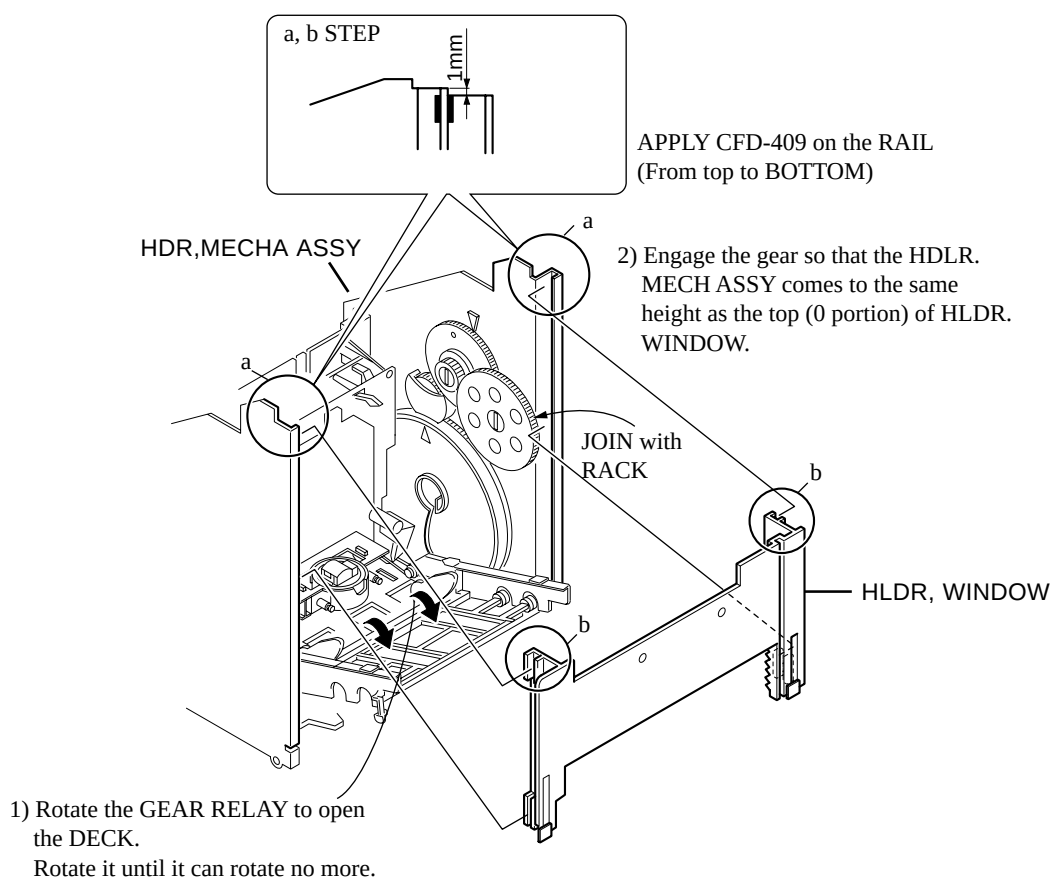
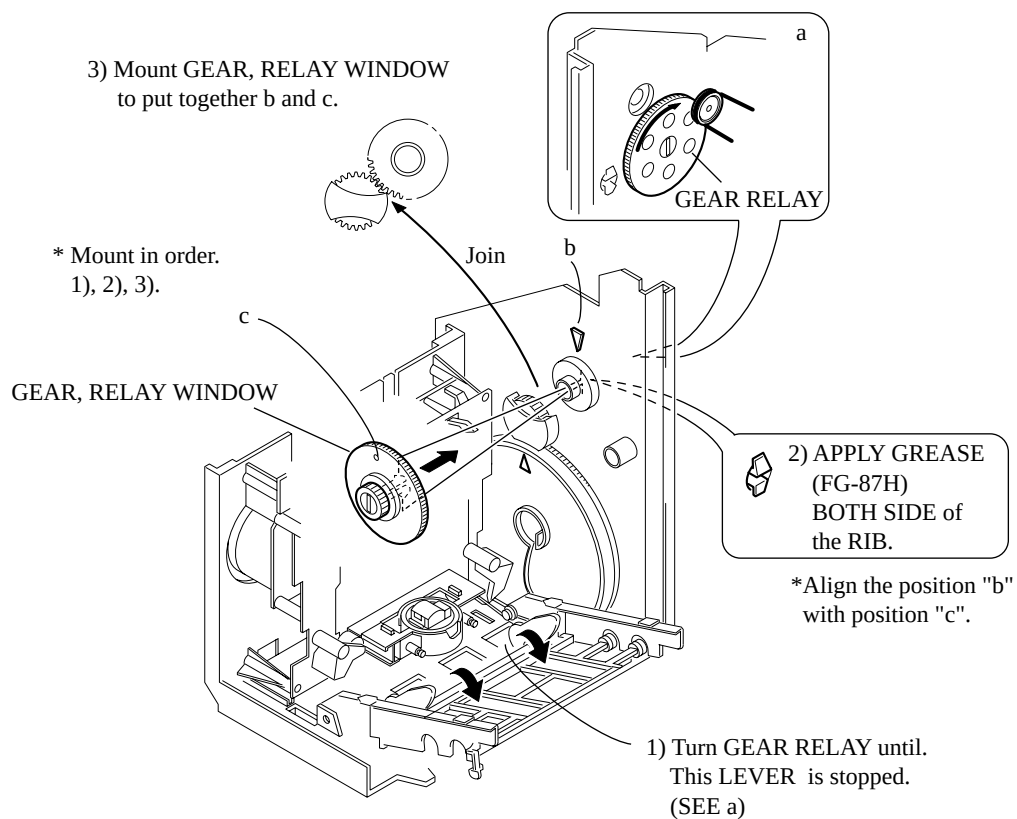
- 2) Install the HLDR, WINDOW so that the upper end of the HLDR, WINDOW and the upper end of the MECH ASSY can be almost aligned to the same height.



- 3) Rotate the GEAR, RELAY until the HLDR, WINDOW goes to the lowest part and stops.



PHASES ALIGNMENT



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C9	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
	8B-NF8-645-010		C-IC,LC877256A-5V18<LH,U,K,3EZ>	C10	87-010-759-080		C-CAP,U, 0.1-25F<U,EZ,K>
	8B-NF8-646-010		C-IC,LC877264V-5V24<4EZ,5EZ>	C10	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
	87-A21-831-010		IC,SPS-422-1-F1	C11	87-010-759-080		C-CAP,U, 0.1-25F<U,EZ,K>
	87-A21-419-040		C-IC,NJM14558MD-TE2	C11	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
	87-A21-893-040		C-IC,NJM4558V-TE2				
	87-A21-401-040		C-IC,M61503FP	C12	87-010-759-080		C-CAP,U, 0.1-25F<U,EZ,K>
	87-070-289-040		IC,BU2092F	C12	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
	87-A21-695-010		IC,LA1845L	C19	87-A12-776-090		CAP,E 2200-50 M 85 SKR<EZ,K>
	87-A20-440-040		C-IC,BU1920FS<5EZ,4EZ>	C19	87-A12-382-000		CAP,E 2200-63 M 85 IV LELON<LH,U>
	87-A21-928-010		IC,LC72131D-N	C19	87-A12-779-090		CAP,E 3300-50 M 85 KR<EZ>
	87-020-454-010		IC,DN6851				
TRANSISTOR				C20	87-A12-776-090		CAP,E 2200-50 M 85 SKR<K>
	87-A30-559-010		TR,CSB1370EF	C20	87-A12-779-090		CAP,E 3300-50 M 85 KR<EZ>
	87-A30-492-080		TR,2SC5343G	C20	87-A12-382-000		CAP,E 2200-63 M 85 IV LELON<LH,U>
	87-A30-076-080		C-TR,2SC3052F	C21	87-A12-777-090		CAP,E 3300-25 M 85 SKR<K>
	87-A30-075-080		C-TR,2SA1235F	C21	87-A12-782-090		CAP,E 4700-25 M 85 SKR<EZ>
	87-A30-494-080		TR,2SA1980G				
	87-A30-107-070		C-TR,CMBT5401	C21	87-A12-778-090		CAP,E 3300-35 M 85 SKR<LH,U>
	87-A30-484-080		C-TR,KRA102S	C22	87-A12-777-090		CAP,E 3300-25 M 85 SKR<EZ,K>
	87-A30-190-080		TR,CC5551	C22	87-A12-778-090		CAP,E 3300-35 M 85 SKR<LH,U>
	87-A30-106-040		C-TR,CMBT5551	C32	87-010-197-080		CAP, CHIP 0.01 DM<LH>
	87-A30-306-010		TR,2SB1677<EZ,K>	C32	87-012-286-080		CAP, U 0.01-25<U,EZ,K>
	87-A30-528-010		TR,2SB1686<LH,U>				
	87-A30-307-010		TR,2SD2619<EZ,K>	C33	87-A12-062-080		CAP,E 100-10 SMG<U>
	87-A30-529-010		TR,2SD2642<LH,U>	C34	87-A12-072-080		CAP,E 100-25 SMG
	87-A30-490-080		C-TR,KRC107S	C35	87-A12-071-080		CAP,E 47-25 SMG<LH,U,K>
	87-A30-162-010		FET,2SK2937	C35	87-A12-090-080		CAP,E 4.7-50 SMG<EZ>
	87-A30-582-080		TR,CDA1585BC	C36	87-A12-066-080		CAP,E 47-16 SMG<EZ>
	87-A30-495-080		TR,2SA1981Y				
	87-A30-468-080		C-TR,KRC102S-RTK	C36	87-A12-067-080		CAP,E 330-16 SMG<LH,U,K>
	87-A30-091-080		FET,2SJ460	C38	87-010-197-080		CAP, CHIP 0.01 DM<LH>
	87-A30-062-080		C-TR,KRC104S	C38	87-012-286-080		CAP, U 0.01-25<U,EZ,K>
	87-A30-063-080		C-TR,KRA104S	C60	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A30-520-080		TR,2SC5342Y	C61	87-A12-071-080		CAP,E 47-25 SMG
	87-A30-515-080		TR,2SA19790/Y				
	87-A30-087-080		C-FET,2SK2158	C83	87-A12-074-080		CAP,E 470-25 SMG
	87-A30-090-080		FET,2SK2541	C97	87-010-831-080		C-CAP,U,0.1-16F
	89-327-143-080		C-TR,2SC27140	C101	87-012-279-080		C-CAP,U 2700P-50 B
	87-A30-489-080		C-TR,KRA107S	C102	87-012-279-080		C-CAP,U 2700P-50 B
	89-503-602-080		C-FET,2SK360E	C103	87-A12-084-080		CAP,E 0.22-50 SMG
	87-A30-086-040		C-TR,CSD1306E<EZ,K>				
	87-A30-234-080		TR,CSC4115BC	C104	87-A12-084-080		CAP,E 0.22-50 SMG
DIODE				C105	87-012-277-080		C-CAP, U 1800P-50 B
	87-A40-393-090		DIODE,1N5402GW(F20)	C106	87-012-277-080		C-CAP, U 1800P-50 B<LH,U,K>
	87-A40-291-080		DIODE,1N4148M(CPT)	C107	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A40-455-090		DIODE,RL203 GW<EZ,K>	C108	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A40-764-080		ZENER,UZ10BSC				
	87-A40-553-080		DIODE,1N4003 LES	C109	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>
	87-A40-270-080		C-DIODE,MC2838	C110	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>
	87-A40-269-080		C-DIODE,MC2836	C111	87-A12-077-080		CAP,E 33-35 SMG
	87-A40-488-080		DIODE,1SS244<LH>	C112	87-A12-077-080		CAP,E 33-35 SMG
	87-A40-748-080		ZENER,UZ5.6BSA	C113	87-A10-596-080		C-CAP,S 100P-100 J CH
	87-A40-002-080		ZENER,MTZJ5.1C<U,EZ,K>				
	87-A40-747-080		ZENER,UZ5.1BSB<LH>	C114	87-A10-596-080		C-CAP,S 100P-100 J CH
	87-A40-749-080		ZENER,UZ5.6BSB	C117	87-012-368-080		C-CAP,S 0.1-50 F
	87-A40-739-080		ZENER,UZ2.7BSA	C118	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-149-080		ZENER,HZS6A2L	C119	87-012-286-080		CAP, U 0.01-25
MAIN C.B				C120	87-012-286-080		CAP, U 0.01-25
	C3	87-012-368-080	C-CAP,S 0.1-50 F	C123	87-010-177-080		C-CAP,S 820P-50 SL
	C4	87-012-368-080	C-CAP,S 0.1-50 F	C124	87-010-177-080		C-CAP,S 820P-50 SL
	C5	87-012-368-080	C-CAP,S 0.1-50 F	C133	87-012-282-080		CAP, U 4700P-50
	C6	87-012-368-080	C-CAP,S 0.1-50 F	C140	87-012-278-080		C-CAP,U 2200P-50 B
	C9	87-010-759-080	C-CAP,U, 0.1-25F<U,EZ,K>	C186	87-010-759-080		C-CAP,U, 0.1-25F
				C187	87-A12-091-080		CAP,E 10-50 SMG
				C188	87-A12-091-080		CAP,E 10-50 SMG
				C225	87-012-368-080		C-CAP,S 0.1-50 F
				C226	87-012-368-080		C-CAP,S 0.1-50 F
				C227	87-012-368-080		C-CAP,S 0.1-50 F
				C228	87-012-368-080		C-CAP,S 0.1-50 F
				C229	87-010-191-080		C-CAP,S 0.015-50 F<EZ,K>
				C230	87-010-191-080		C-CAP,S 0.015-50 F<EZ,K>
				C231	87-012-286-080		CAP, U 0.01-25<EZ,K>
				C232	87-012-286-080		CAP, U 0.01-25<EZ,K>
				C303	87-012-275-080		C-CAP,U 1200P-50 B
				C304	87-012-275-080		C-CAP,U 1200P-50 B
				C307	87-A12-062-080		CAP,E 100-10 SMG
				C308	87-A12-062-080		CAP,E 100-10 SMG
				C309	87-012-188-080		C-CAP,U 47P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C310	87-012-188-080		C-CAP,U 47P-50 CH	C782	87-012-286-080		CAP, U 0.01-25
C313	87-012-284-080		CAP, U 6800P-50	C783	87-012-286-080		CAP, U 0.01-25
C314	87-012-284-080		CAP, U 6800P-50	C784	87-012-286-080		CAP, U 0.01-25
C315	87-A12-062-080		CAP,E 100-10 SMG	C785	87-012-286-080		CAP, U 0.01-25
C317	87-A12-085-080		CAP,E 0.33-50 SMG	C786	87-012-286-080		CAP, U 0.01-25
C318	87-A12-085-080		CAP,E 0.33-50 SMG	C788	87-012-167-080		C-CAP,U 5P-50 CH
C326	87-010-787-080		CAP, U 0.022-25	C789	87-A12-052-080		C-CAP,S 0.033-25 J B<LH,U>
C327	87-010-831-080		C-CAP,U,0.1-16F	C789	87-016-118-080		C-CAP,U0.022-25BJ<EZ,K>
C350	87-012-286-080		CAP, U 0.01-25<EZ,K>	C790	87-A12-052-080		C-CAP,S 0.033-25 J B<LH,U>
C360	87-A12-087-080		CAP,E 1-50 SMG	C790	87-016-118-080		C-CAP,U0.022-25BJ<EZ,K>
C399	87-A10-039-080		C-CAP,U 470P-50 J CH<U,EZ,K>	C791	87-010-831-080		C-CAP,U,0.1-16F
C399	87-012-140-080		CAP 470P<LH>	C792	87-012-286-080		CAP, U 0.01-25
C401	87-A12-083-080		CAP,E 0.1-50 SMG	C793	87-A12-090-080		CAP,E 4.7-50 SMG
C402	87-A12-083-080		CAP,E 0.1-50 SMG	C795	87-012-286-080		CAP, U 0.01-25
C403	87-012-193-080		C-CAP,U 82P-50 CH	C796	87-012-286-080		CAP, U 0.01-25
C404	87-012-193-080		C-CAP,U 82P-50 CH	C797	87-A12-091-080		CAP,E 10-50 SMG
C405	87-012-286-080		CAP, U 0.01-25	C798	87-012-286-080		CAP, U 0.01-25
C406	87-012-286-080		CAP, U 0.01-25	C799	87-010-265-080		CAP, ELECT 33-16V
C407	87-012-286-080		CAP, U 0.01-25	C800	87-010-829-080		CAP, U 0.047-16
C408	87-012-286-080		CAP, U 0.01-25	C801	87-A12-089-080		CAP,E 3.3-50 SMG
C409	87-012-278-080		C-CAP,U 2200P-50 B	C802	87-010-829-080		CAP, U 0.047-16
C410	87-012-278-080		C-CAP,U 2200P-50 B	C803	87-010-787-080		CAP, U 0.022-25
C411	87-A12-091-080		CAP,E 10-50 SMG	C804	87-A12-062-080		CAP,E 100-10 SMG
C412	87-A12-091-080		CAP,E 10-50 SMG	C807	87-A12-086-080		CAP,E 0.47-50 SMG
C452	87-A12-069-080		CAP,E 22-25 SMG	C808	87-A12-087-080		CAP,E 1-50 SMG
C453	87-012-279-080		C-CAP,U 2700P-50 B	C809	87-A12-087-080		CAP,E 1-50 SMG
C454	87-012-279-080		C-CAP,U 2700P-50 B	C810	87-010-831-080		C-CAP,U,0.1-16F
C455	87-012-279-080		C-CAP,U 2700P-50 B	C814	87-012-286-080		CAP, U 0.01-25
C456	87-012-286-080		CAP, U 0.01-25	C815	87-A12-086-080		CAP,E 0.47-50 SMG
C457	87-A12-361-080		CAP,M 5600P-100 J CP	C816	87-A12-086-080		CAP,E 0.47-50 SMG
C458	87-012-274-080		CHIP CAP,U 1000P-50B	C818	87-012-276-080		CAP, CHIP SS 1500 PBK<EZ,K>
C459	87-012-271-080		CAP, U 560P-50	C821	87-A12-091-080		CAP,E 10-50 SMG
C460	87-010-831-080		C-CAP,U,0.1-16F	C823	87-010-177-080		C-CAP,S 820P-50 SL<LH,U>
C461	87-012-158-080		C-CAP,S 390P-50 CH	C823	87-A10-915-080		C-CAP,U 1000P-25 J CH<EZ,K>
C462	87-012-158-080		C-CAP,S 390P-50 CH	C824	87-A12-090-080		CAP,E 4.7-50 SMG
C470	87-018-127-080		CAP, CER 470P-50V	C825	87-010-596-080		CAP, S 0.047-16
C605	87-012-280-080		CAP, U 3300P-50	C831	87-A12-092-080		CAP,E 22-50 SMG<EZ,K>
C606	87-012-280-080		CAP, U 3300P-50	C842	87-012-286-080		CAP, U 0.01-25
C609	87-010-785-080		C-CAP,U0.015-25BK	C844	87-012-286-080		CAP, U 0.01-25
C610	87-010-785-080		C-CAP,U0.015-25BK	C850	87-A12-071-080		CAP,E 47-25 SMG
C611	87-A12-084-080		CAP,E 0.22-50 SMG	C851	87-012-286-080		CAP, U 0.01-25
C612	87-A12-084-080		CAP,E 0.22-50 SMG	C852	87-012-286-080		CAP, U 0.01-25
C613	87-A12-084-080		CAP,E 0.22-50 SMG	C853	87-012-286-080		CAP, U 0.01-25
C614	87-A12-084-080		CAP,E 0.22-50 SMG	C858	87-010-831-080		C-CAP,U,0.1-16F
C615	87-012-172-080		CAPACITOR CHIP U 10P CH	C859	87-010-831-080		C-CAP,U,0.1-16F<EZ,K>
C616	87-010-221-080		CAP, ELECT 470-10V	C860	87-012-286-080		CAP, U 0.01-25<EZ,K>
C617	87-010-221-080		CAP, ELECT 470-10V	C869	87-012-286-080		C-CAP,U, 0.01-25<5EZ,4EZ>
C618	87-A12-091-080		CAP,E 10-50 SMG	C870	87-012-274-080		C-CAP,U, 1000P-50<5EZ,4EZ>
C620	87-A12-062-080		CAP,E 100-10 SMG	C871	87-012-199-080		C-CAP,U, 220P-50<5EZ,4EZ>
C623	87-A12-084-080		CAP, ELECT 0.22-50 SMG<EZ>	C872	87-012-199-080		C-CAP,U, 220P-50<5EZ,4EZ>
C623	87-010-401-080		CAP, ELECT 1-50V<LH,U,K>	C873	87-A10-039-080		C-CAP, U, 470P-50<5EZ,4EZ>
C624	87-A12-084-080		CAP, ELECT 0.22-50 SMG<EZ>	C874	87-A12-091-080		CAP, ELECT 10-50 SMG<5EZ,4EZ>
C624	87-010-401-080		CAP, ELECT 1-50V<LH,U,K>	C875	87-010-759-080		C-CAP,U, 0.1-25F<5EZ,4EZ>
C630	87-A10-260-080		C-CAP,U 0.1-16 K B	C876	87-A12-091-080		CAP, ELECT 10-50 SMG<5EZ,4EZ>
C631	87-012-281-080		C-CAP,U 3900P-50 B	C877	87-012-286-080		C-CAP,U, 0.01-25<5EZ,4EZ>
C632	87-012-281-080		C-CAP,U 3900P-50 B	C878	87-012-184-080		C-CAP,U, 33P-50<5EZ,4EZ>
C633	87-A11-070-080		C-CAP,U 0.033-16 K B	C879	87-012-180-080		C-CAP,U, 22P-50<5EZ,4EZ>
C634	87-A11-070-080		C-CAP,U, 0.033-16 K B	C901	87-018-145-080		CAP,TC-U 6.8P-50 CH<LH,U>
C661	87-012-336-080		C-CAP,U 330P-50J SL	C904	87-012-286-080		CAP, U 0.01-25<LH,U>
C662	87-012-336-080		C-CAP,U 330P-50J SL	C905	87-012-286-080		CAP, U 0.01-25<LH,U>
C669	87-012-274-080		CHIP CAP,U 1000P-50B<U,EZ,K>	C907	87-012-286-080		CAP, U 0.01-25<LH,U>
C670	87-012-274-080		CHIP CAP,U 1000P-50B<U,EZ,K>	C908	87-A10-915-080		C-CAP,U 1000P-25 J CH<LH,U>
C671	87-010-759-080		C-CAP, U, 0.1-25F<LH>	C909	87-012-286-080		CAP, U 0.01-25<LH,U>
C672	87-010-759-080		C-CAP,U, 0.1-25F<LH>	C910	87-012-174-080		CAP CHIP CERA SS 12P CHJ<LH,U>
C673	87-012-278-080		C-CAP,U 2200P-50 B<LH>	C911	87-012-170-080		C-CAP,U 8P-50 CH<LH,U>
C677	87-012-286-080		CAP, U 0.01-25	C912	87-012-195-080		C-CAP,U 100P-50CH<LH,U>
C771	87-A12-062-080		CAP,E 100-10 SMG	C913	87-012-286-080		CAP, U 0.01-25<LH,U>
C772	87-012-286-080		CAP, U 0.01-25	C914	87-012-166-080		C-CAP,U 4P-50 CH<LH,U>
C779	87-010-949-080		C-CAP,S 0.01-50 BJ<EZ,K>	C915	87-012-174-080		CAP CHIP CERA SS 12P CHJ<LH,U>
C780	87-010-949-080		C-CAP,S 0.01-50 BJ<EZ,K>	C916	87-012-180-080		C-CAP,U 22P-50 CH<LH,U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C917	87-012-186-080		C-CAP,U 39P-50 CH<LH,U>	L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ<EZ,K>
C918	87-A10-039-080		C-CAP,U 470P-50 J CH<LH,U>	L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)<EZ,K>
C921	87-012-195-080		C-CAP,U 100P-50CH<LH,U>	L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)<LH,U>
C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ<LH,U>	R129	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
C940	87-012-286-080		CAP, U 0.01-25<EZ,K>	R129	87-A00-262-080		RES,M/F 0.15-2W J<LH>
C942	87-012-165-080		CAP 3P-50<EZ,K>	R130	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
C947	87-012-286-080		CAP, U 0.01-25<EZ,K>	R130	87-A00-262-080		RES,M/F 0.15-2W J<LH>
C948	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>	R131	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
C952	87-012-286-080		CAP, U 0.01-25<EZ,K>	R131	87-A00-262-080		RES,M/F 0.15-2W J<LH>
C957	87-012-174-080		C-CAP CERA SS 12P CHJ<EZ,K>	R132	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
C958	87-012-286-080		CAP, U 0.01-25<EZ,K>	R132	87-A00-262-080		RES,M/F 0.15-2W J<LH>
C959	87-010-831-080		C-CAP,U,0.1-16F	R790	87-012-286-080		CAP, U 0.01-25
C960	87-010-831-080		C-CAP,U,0.1-16F	R991	87-012-195-080		C-CAP,U 100P-50CH
C961	87-012-167-080		C-CAP,U 5P-50 CH<LH,U>	R993	87-012-195-080		C-CAP,U 100P-50CH
C962	87-A12-087-080		CAP,E 1-50 SMG<EZ,K>	R995	87-012-195-080		C-CAP,U 100P-50CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	SFR451	87-A90-432-080		SFR,30K H NVZ6TLTA
C971	87-A12-067-080		CAP,E 330-16 SMG	SFR452	87-A90-432-080		SFR,30K H NVZ6TLTA
C972	87-A12-090-080		CAP,E 4.7-50 SMG	TC942	87-A91-774-080		TRIMMER,PLY30P 6.8X5.4CDYL<EZ,K>
C973	87-012-286-080		CAP, U 0.01-25	TH101	87-A91-042-080		C-THMS,100K 55001
C974	87-012-286-080		CAP, U 0.01-25	TH102	87-A91-042-080		C-THMS,100K 55001
C979	87-012-195-080		C-CAP,U 100P-50CH	W99	8B-NF8-656-010		F-CABLE,7P 2.5 250MM<U,EZ,K>
C981	87-A12-071-080		CAP,E 47-25 SMG	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C982	87-010-831-080		C-CAP,U,0.1-16F	X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST<5EZ,4EZ>
C983	87-012-286-080		CAP, U 0.01-25	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
C984	87-012-286-080		CAP, U 0.01-25				
C985	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>	FRONT C.B			
C987	87-012-286-080		CAP, U 0.01-25	C141	87-012-278-080		C-CAP,U 2200P-50 B
C989	87-012-286-080		CAP, U 0.01-25<EZ,K>	C151	87-A10-189-040		CAP,E 220-10
C991	87-012-176-080		CAP 15P	C153	87-A10-353-080		C-CAP,U 0.22-10KB
C992	87-012-176-080		CAP 15P	C154	87-010-785-080		C-CAP,U0.015-25BK
C993	87-012-274-080		CHIP CAP,U 1000P-50B	C155	87-012-176-080		CAP 15P
C995	87-012-274-080		CHIP CAP,U 1000P-50B	C156	87-012-195-080		C-CAP,U 100P-50CH
C997	87-010-831-080		C-CAP,U,0.1-16F	C157	87-012-198-080		CAP 180P
C998	87-A12-071-080		CAP,E 47-25 SMG	C165	87-012-268-080		C-CAP,U 330P-50 B
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C166	87-010-075-040		CAP,E 10-16 5L
CF831	87-008-261-010		FILTER, SFE10.7MA5<LH,U>	C170	87-010-759-080		C-CAP,U, 0.1-25F
CF831	87-008-423-010		FLTR,CF,SFE10.7MS3G-A<EZ,K>	C171	87-016-114-080		C-CAP,U0.01-25B
CF832	82-785-747-010		CF MS2 GHY R<EZ,K>	C175	87-010-759-080		C-CAP,U, 0.1-25F
CF832	87-008-261-010		FLTR,CF,SFE10.7MA5<LH,U>	C176	87-012-274-080		CHIP CAP,U 1000P-50B
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C177	87-010-757-080		C.CAP,U 0.047-25F
CN501	87-099-564-010		CONN,4PVTUC-P4P-B1<LH>	C180	87-010-759-080		C-CAP,U, 0.1-25F
CN601	87-099-750-010		CONN,15P V 9604SC	C193	87-012-271-080		CAP, U 560P-50
CN602	87-A60-131-010		CONN,6P V FE	C194	87-012-195-080		C-CAP,U 100P-50CH
CN605	87-A61-108-010		CONN,5P V TID-A	C315	87-010-759-080		C-CAP,U, 0.1-25F
CN607	87-099-017-010		CONN, 15P V BLK 6216	C441	87-010-412-040		CAP,E 10-25 5L
CNA1	8B-NF8-652-010		CONN ASSY,7P TID-A(300)<LH>	C451	87-010-067-040		CAP,E 0.1-50 5L
D902	87-A40-128-080		C-VARI-CAP,HVU202A<LH,U>	C452	87-010-421-040		CAP,E 4.7-50 5L
D903	87-A40-128-080		C-VARI-CAP,HVU202A<LH,U>	C453	87-010-788-080		C-CAP,U 0.033-2.5F
FFC602	88-906-401-110		FF-CABLE,6P 1.25	C454	87-012-273-080		C-CAP,U 820P-50 B
FFE831	A8-6ZA-19H-030		6ZA-1 FEMENM<EZ,K>	C456	87-010-785-080		C-CAP,U0.015-25BK
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)	C457	87-012-280-080		CAP, U 3300P-50
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C459	87-A10-025-080		C-CAP,U, 0.22-16ZF
J831	87-A60-202-010		TERMINAL,ANT 4P<LH,U>	C460	87-010-831-080		C-CAP,U,0.1-16F
J832	87-A60-403-010		TERMINAL,ANT PAL 2P<EZ,K>	C621	87-010-075-040		CAP,E 10-16 5L
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH	C622	87-010-759-080		C-CAP,U, 0.1-25F
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH	C623	87-012-188-080		C-CAP,U 47P-50 CH
L201	87-A50-610-010		COIL,1UH K(MDEC)	C624	87-012-188-080		C-CAP,U 47P-50 CH
L202	87-A50-610-010		COIL,1UH K(MDEC)	C625	87-012-188-080		C-CAP,U 47P-50 CH
L451	87-007-342-010		COIL,OSC 85KHZ BIAS	C679	87-010-759-080		C-CAP,U, 0.1-25F
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C689	87-010-759-080		C-CAP,U, 0.1-25F
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	CN101	87-099-750-010		CONN,15P V 9604SC
L811	87-005-847-080		COIL,2.2UH K CECS	CN102	87-099-017-010		CONN, 15P 6216
L832	87-005-847-080		COIL,2.2UH K CECS	CN103	87-099-196-010		CONN,8P 6216
L861	87-005-847-080		COIL,2.2UH K CECS<5EZ,4EZ>	CN121	87-A60-131-010		CONN,6P V FE
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<LH,U>	CN251	87-A60-133-010		CONN,8P V FE
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<LH,U>	CN401	87-A60-130-010		CONN,5P V FE
L904	87-005-847-080		COIL,2.2UH(CECS)<LH,U>	CN501	87-A60-586-010		CONN,4P V FE<LH>
L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)<LH,U>	CNA141	8B-NF8-650-010		CONN ASSY,2P (35)
L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<LH,U>	FFC101	88-915-151-110		FF-CABLE,15P 1.25 150MM
L941	87-A50-020-010		COIL,ANT LW(COI) 252KHZ<EZ,K>				

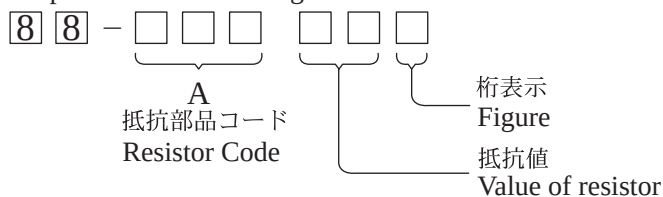
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FFC102	8B-NF8-655-010		FF-CABLE,15P 1.25 150MM BLACK	R246	87-A00-440-050		RES,220-1/2W J RP<U>
FFC103	88-908-451-110		FF-CABLE,8P 1.25 450MM	R246	87-A00-441-050		RES,270-1/2W J RP<LH>
FFC121	88-906-081-110		FF-CABLE,6P 1.25 80MM	WH2	87-A90-460-010		HLDR,WIRE 2.5-7P
FFC251	88-908-451-110		FF-CABLE,8P 1.25 450MM				
FFC401	88-905-331-110		FF-CABLE,5P 1.25 330MM				
				FAN	C.B<LH>		
FFC501	88-904-351-110		FF-CABLE,4P 1.25<LH>	C501	87-A12-087-080		CAP,E 1-50 SMG
L151	87-A50-657-010		COIL,CLK 9.43MHZ (TOKO)7KLY	C502	87-A12-090-080		CAP,E 47-25 SMG
LCD101	8B-NF8-601-010		LCD,AIW4272-30P1N	C503	87-A12-071-080		CAP,E 47-25 SMG
LED140	87-A40-317-080		LED,SLR-342VCT31 RED	CN502	87-A60-688-010		CONN,4P H GRY TUC-P04X-C1
LED671	87-A41-053-010		LED,SMLU18D16CGREEN/UMBER<K,3EZ>	CN503	87-A60-109-010		CONN,2P V S2M-2W
LED671	87-A92-077-010		LED,SMLU1BE16C-SLF73BLU/UMB<EXCEPT 3EZ,K>				
LED681	87-A41-053-010		LED,SMLU18D16CGREEN/UMBER<K,3EZ>				
LED681	87-A92-077-010		LED,SMLU1BE16C-SLF73BLU/UMB<EXCEPT 3EZ,K>TOP C.B				
R192	87-010-785-080		C-CAP,U0.015-25KB GRM				
R193	87-010-785-080		C-CAP,U0.015-25KB GRM	C190	87-012-271-080		CAP, U 560P-50
				C191	87-012-195-080		C-CAP,U 100P-50CH
R194	87-010-785-080		C-CAP,U0.015-25KB GRM	CN122	87-A60-154-010		CONN,6P H FE
S306	87-A90-095-080		SW,TACT EVQ11G04M	S301	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M	S302	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M<5EZ,4EZ>				
S309	87-A90-095-080		SW,TACT EVQ11G04M<5EZ,4EZ>	S303	87-A90-095-080		SW,TACT EVQ11G04M
				S304	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M<5EZ,4EZ>	S305	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M	SW163	87-A91-991-010		SW,RTRY REO12303PVB8H
S342	87-A90-095-080		SW,TACT EVQ11G04M				
S343	87-A90-095-080		SW,TACT EVQ11G04M				
S344	87-A90-095-080		SW,TACT EVQ11G04M	MOT.B			
S345	87-A90-095-080		SW,TACT EVQ11G04M	CN402	87-A60-130-010		CONN,5P V FE
S346	87-A90-095-080		SW,TACT EVQ11G04M	M401	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
S347	87-A90-095-080		SW,TACT EVQ11G04M	S401	87-036-110-010		SW,MICRO SPPB62
S348	87-A90-095-080		SW,TACT EVQ11G04M	S402	87-036-110-010		SW,MICRO SPPB62
S349	87-A90-095-080		SW,TACT EVQ11G04M				
SW162	87-A92-172-010		SW,RTRY EC12E24204-25MM OFF<LH,U,K>	MIC	C.B<LH>		
SW162	87-A91-645-010		SW,RTRY EC12E24304NON-CLICK<EZ>				
				C502	87-010-186-080		CAP,CHIP 4700P-50
				C503	87-010-112-040		CAP,E 100-16
PT	C.B			C505	87-010-491-040		CAP,E 0.22-50M 5L SRE
				C506	87-010-320-080		CHIP CAP 68P
C85	87-010-831-080		C-CAP,U,0.1-16F<EZ,K>	C507	87-010-545-040		CAP,E 0.22-50M 11L SME
△ CN1	87-A61-109-010		CONN,7P V TID-A<LH>				
△ PT1	8B-NF8-608-010		PT,BNF8-EZK<EZ,K>	C508	87-010-544-040		CAP,E 0.1-50 SME
△ PT1	8B-NF8-606-010		PT,BNF8-LH<LH>	C510	87-010-322-080		C-CAP,S 100P-50 CH
△ PT1	8B-NF8-607-010		PT,BNF8-U<U>	C511	87-A12-065-040		CAP,E 33-16 SMG
				C512	87-010-178-080		CHIP CAP 1000P
△ PT2	8B-MA6-673-010		PT,SUB BMA H (VRK)<LH>	C513	87-010-196-080		CHIP CAPACITOR,0.1-25
△ PT81	8B-MA6-675-010		PT,SUB BMA E (VRK)<EZ,K>				
△ PT81	8B-MA6-671-010		PT,SUB BMA U (VRK)<U>	C514	87-010-196-080		CHIP CAPACITOR,0.1-25
△ RY1	87-A92-058-010		RELAY,AC DC12V HRM4-S<LH>	C515	87-010-178-080		CHIP CAP 1000P
△ RY81	87-A92-072-010		RELAY,AC DC12V HRM3H-S-1POLE<U>	C520	87-010-177-080		C-CAP,S 820P-50 SL
				CN551	87-A60-586-010		CONN,4P V FE
△ RY81	87-A91-418-010		RELAY,AC12V G5PA-1-M<EZ,K>	FB501	87-008-372-080		FILTER, EMI BL01 RN1
△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>				
△ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>	J501	87-A61-243-010		JACK,6.3 BLK MONO W/SW V MSC
△ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>	VR501	87-NB7-602-010		VR,RTRY 10KAX1 1 V
△ T81	87-A60-317-010		TERMINAL, 1P MSC<U,EZ,K>				
				KEY	C.B		
△ T82	87-A60-317-010		TERMINAL, 1P MSC<U,EZ,K>				
WH81	87-A90-460-010		HLDR,WIRE 2.5-7P<U,EZ,K>				
				CN141	87-009-030-010		CONN,2P V WHT PH
JACK	C.B			S321	87-A90-095-080		SW,TACT EVQ11G04M
				S322	87-A90-095-080		SW,TACT EVQ11G04M
C223	87-010-176-080		C-CAP,S 680P-50 SL<EZ,K>	S323	87-A90-095-080		SW,TACT EVQ11G04M
C224	87-010-176-080		C-CAP,S 680P-50 SL<EZ,K>	S324	87-A90-095-080		SW,TACT EVQ11G04M
C241	87-010-831-080		C-CAP,U,0.1-16F				
CNA5	8B-NF8-653-010		CONN ASSY,5P TID-A (600)	S325	87-A90-095-080		SW,TACT EVQ11G04M
J201	87-A61-480-010		JACK,DIA6.3 BLK ST W/SW MSC16A	S326	87-A90-095-080		SW,TACT EVQ11G04M
				S327	87-A90-095-080		SW,TACT EVQ11G04M<LH>
R243	87-A01-001-050		RES,220-1/2W J BLT2J<EZ>	DECK	C.B		
R243	87-A00-440-050		RES,220-1/2W J RP<LH,U,K>				
R244	87-A00-440-050		RES,220-1/2W J RP<LH,U,K>	CN1	87-A60-079-010		CONN,08P H 9604S-08F
R244	87-A01-001-050		RES,220-1/2W J BLT2J<EZ>	M1	87-A91-825-010		MOT,M09Y/Z
R245	87-A00-439-050		RES,180-1/2W J RP<K>	S1	87-036-110-010		PUSH SWITCH
				S2	87-036-110-010		PUSH SWITCH
R245	87-A00-440-050		RES,220-1/2W J RP<U>	S4	87-036-110-010		PUSH SWITCH
R245	87-A00-441-050		RES,270-1/2W J RP<LH>				
R245	87-A01-001-050		RES,220-1/2W J BLT2J<EZ>				
R246	87-A01-001-050		RES,220-1/2W J BLT2J<EZ>	S5	87-036-110-010		PUSH SWITCH
R246	87-A00-439-050		RES,180-1/2W J RP<K>	SOL1	82-ZM3-628-010		SOL ASSY,23 SO

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
HEAD C.B			
CNA351	8B-NF8-654-010 87-A91-195-110		CONN ASSY, 8P (375) HEAD, RPH KC9142 FPC

○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

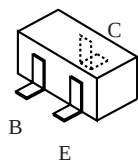
Chip Resistor Part Coding



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	1005	± 5%	CJ		1.0	0.5	0.35	104
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

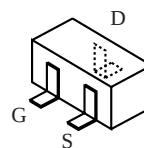
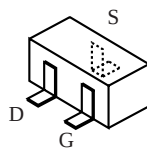
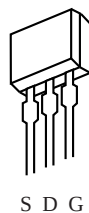
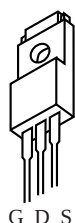


2SA1235F KRA102S
 2SC2714O KRA107S
 2SC3052F KRC104S
 CMBT5401 KRC107S
 CMBT5551 KRC102S-RTK
 CSD1306E KRA104S

2SA1979O/Y
 2SA1980G
 2SA1981Y
 2SC5343G
 2SC5342Y

CC5551
 CDA1585BC
 CSC4115BC

CSB1370EF
 2SB1677
 2SB1686
 2SD2619
 2SD2642



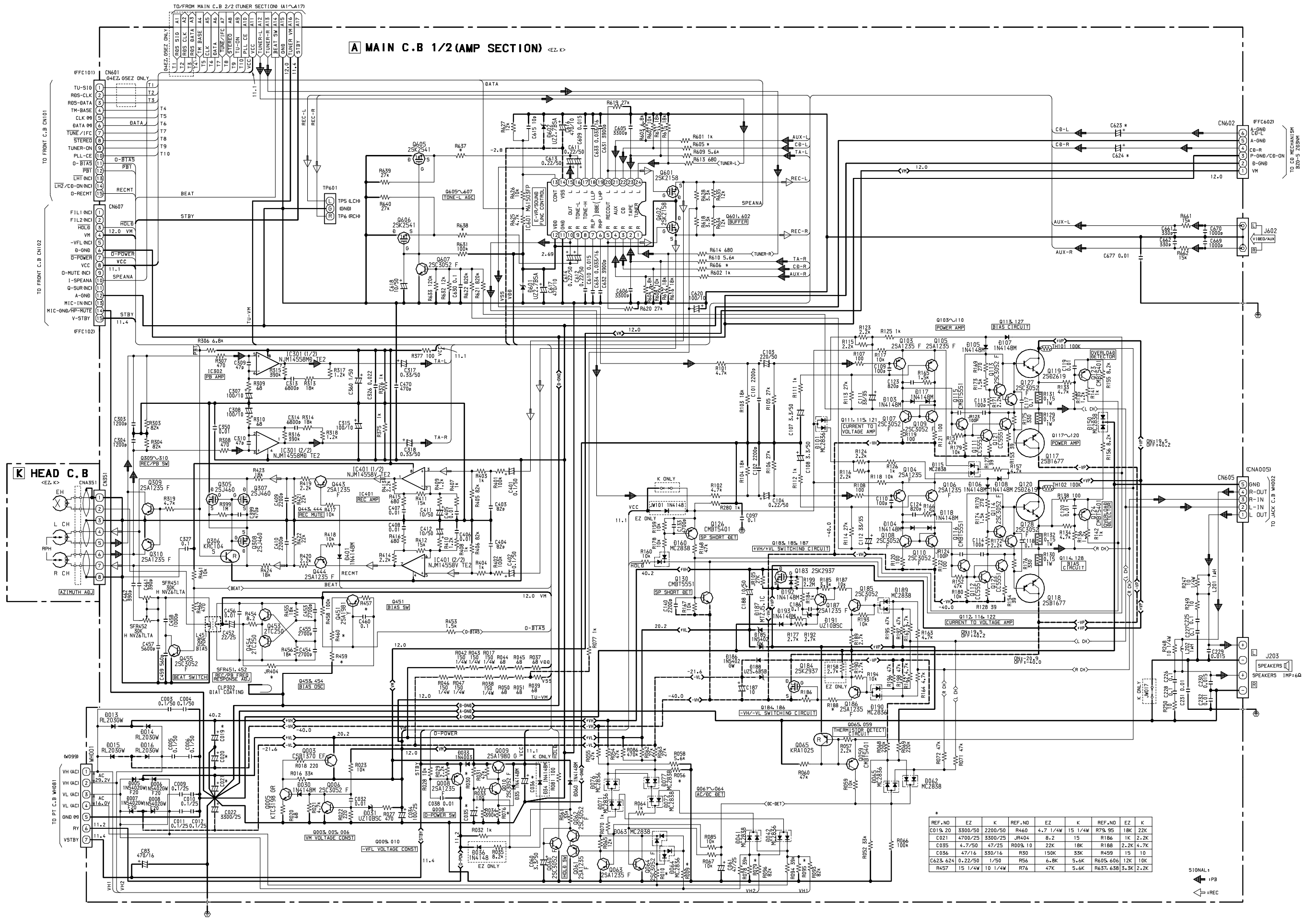
2SK2937

2SJ460
 2SK2541

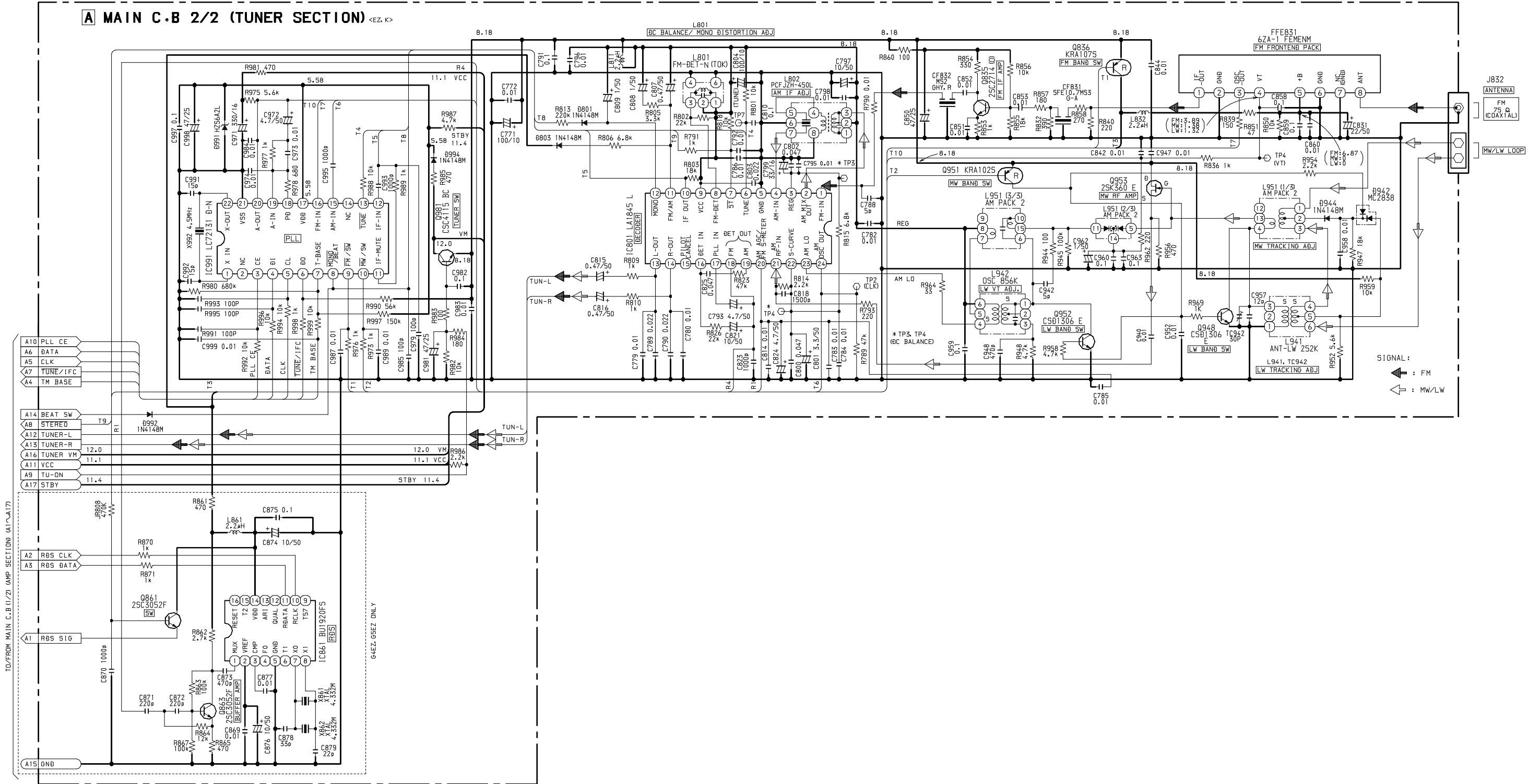
2SK360E

2SK2158

SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP SECTION / HEAD) <EZ,K>

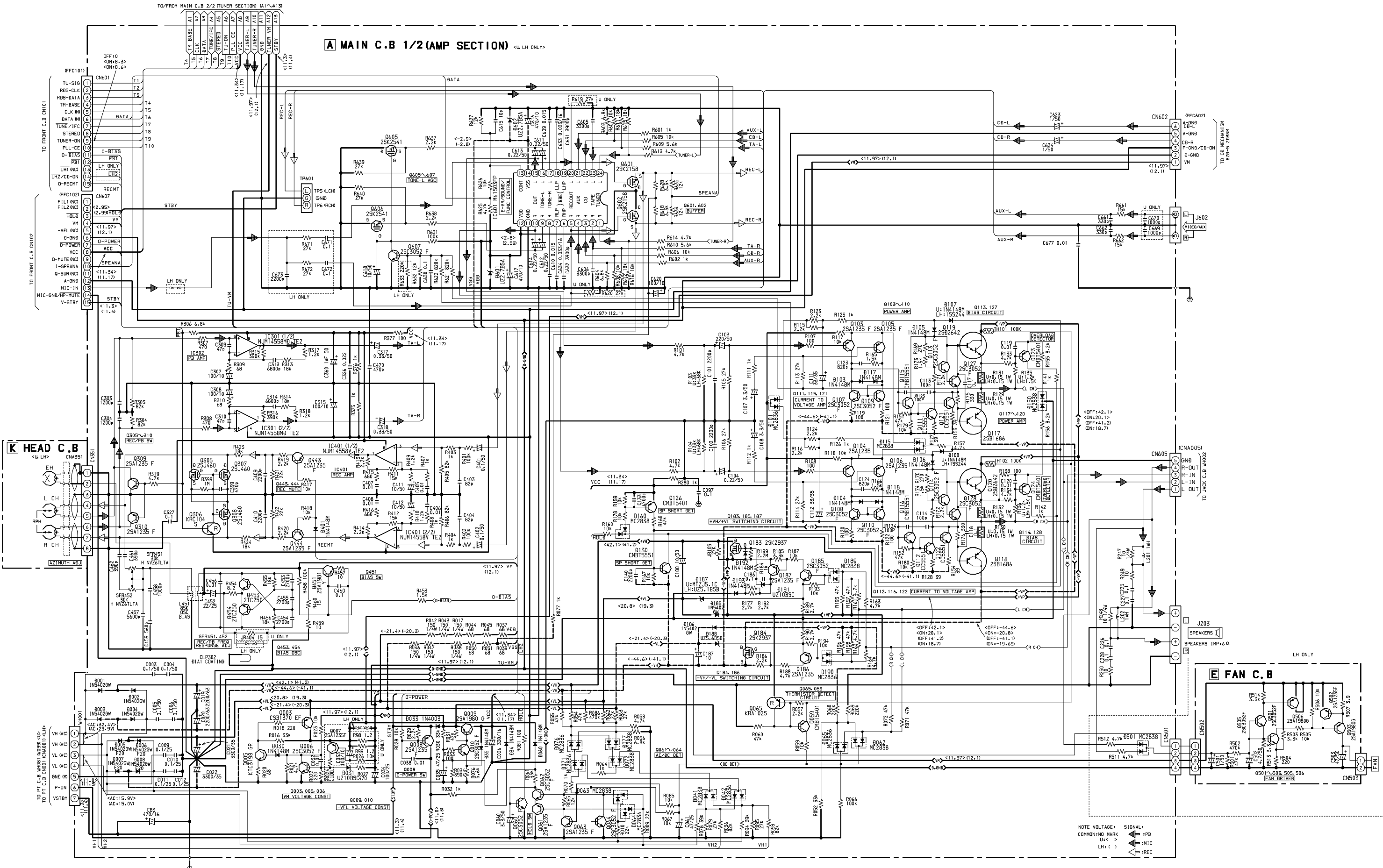


SCHEMATIC DIAGRAM-2 (MAIN 2/2:TUNER SECTION) <EZ,K>

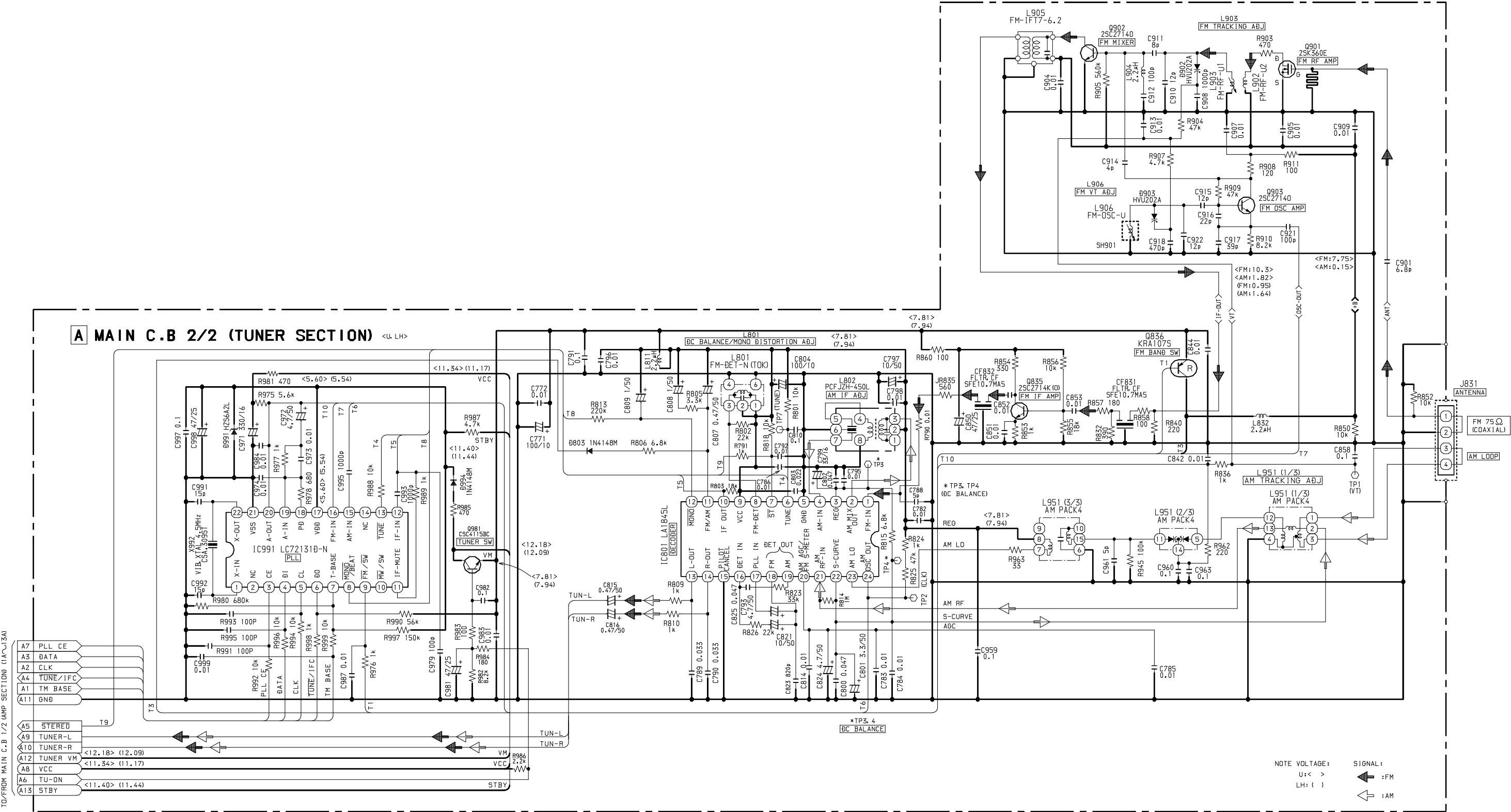




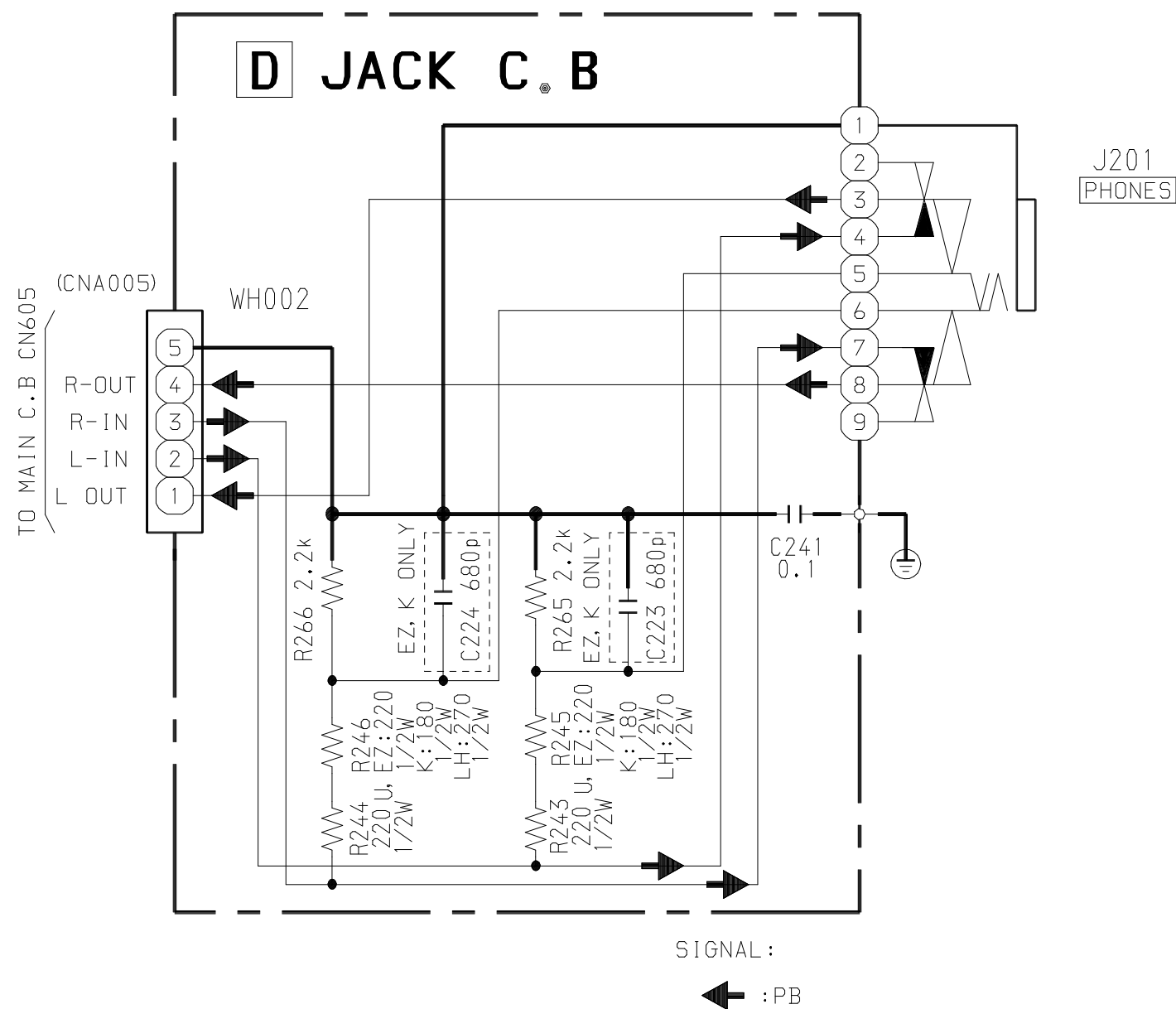
SCHEMATIC DIAGRAM-3 (MAIN 1/2:AMP SECTION/HEAD) <U,LH>

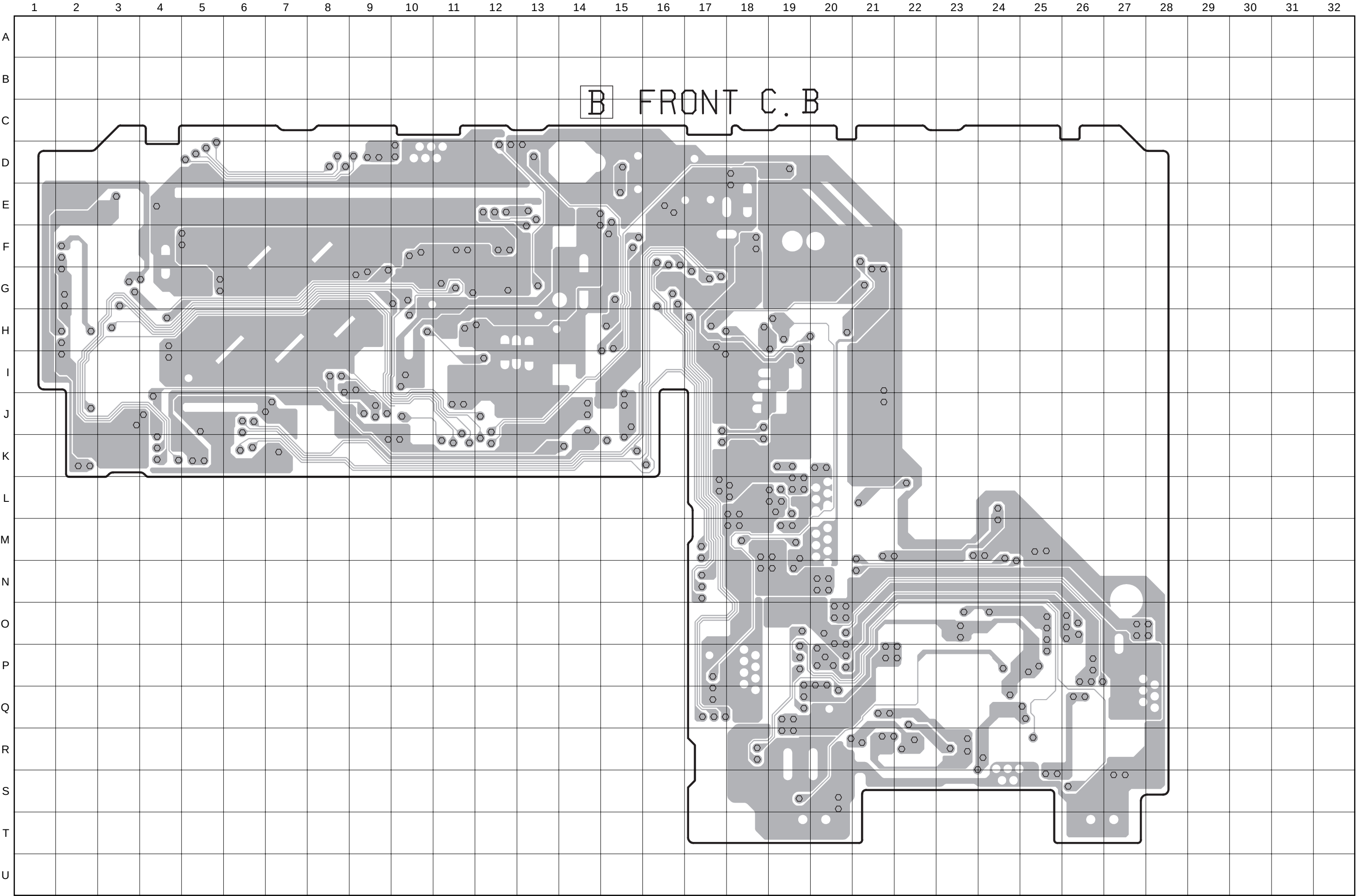


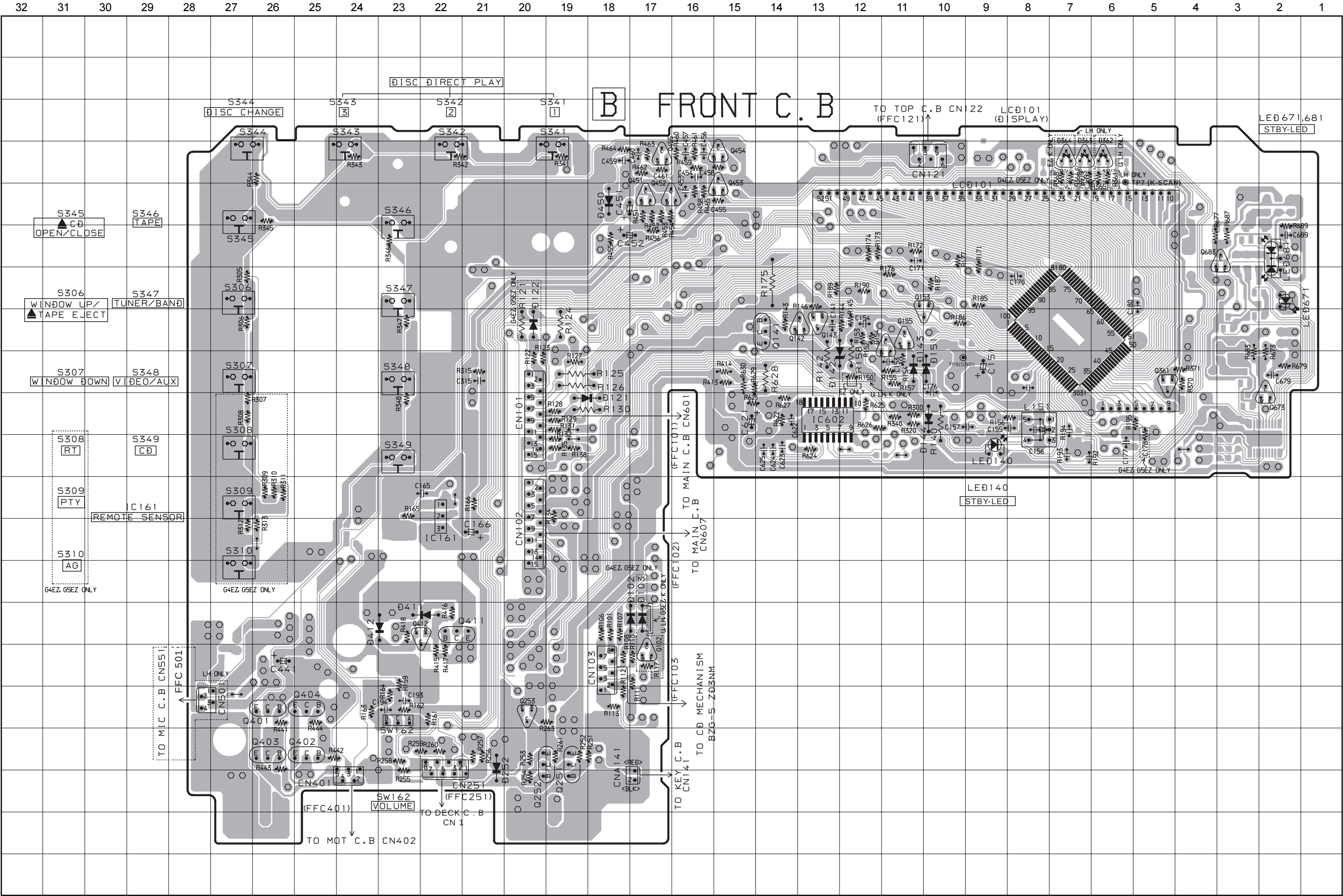
SCHEMATIC DIAGRAM –4 (MAIN 2/2 : TUNER SECTION) <U,LH>

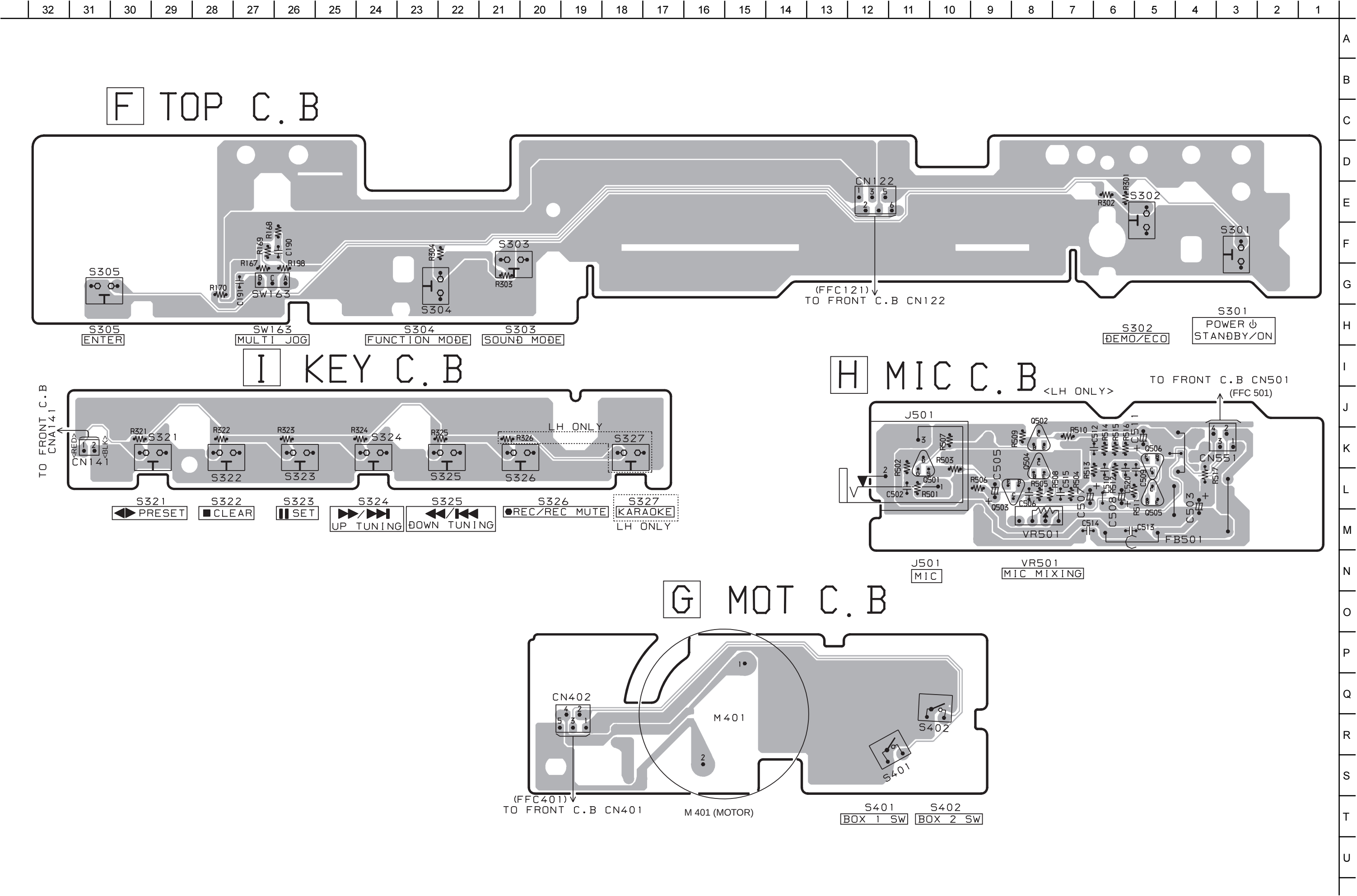


SCHEMATIC DIAGRAM – 3 (JACK)

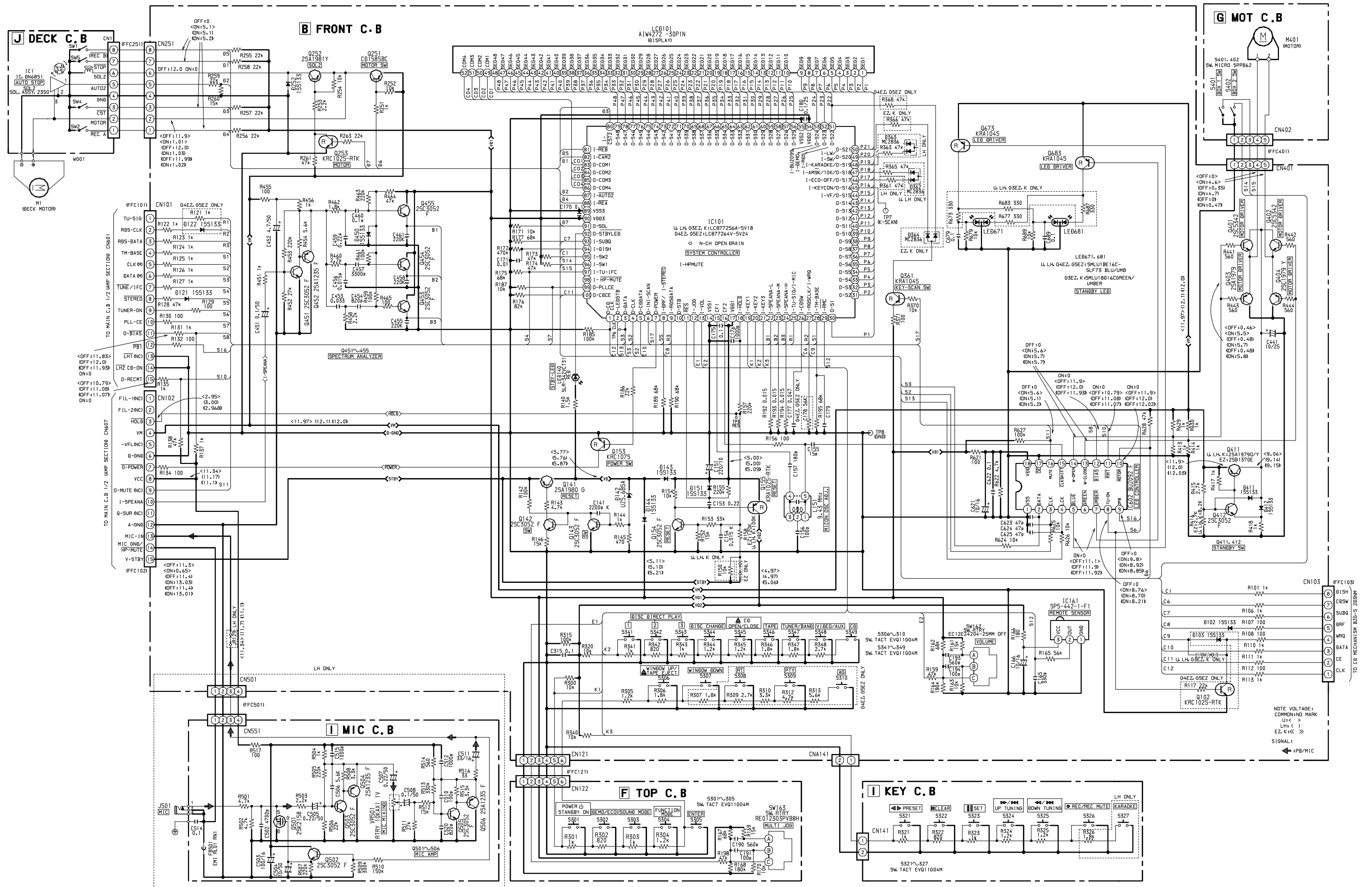




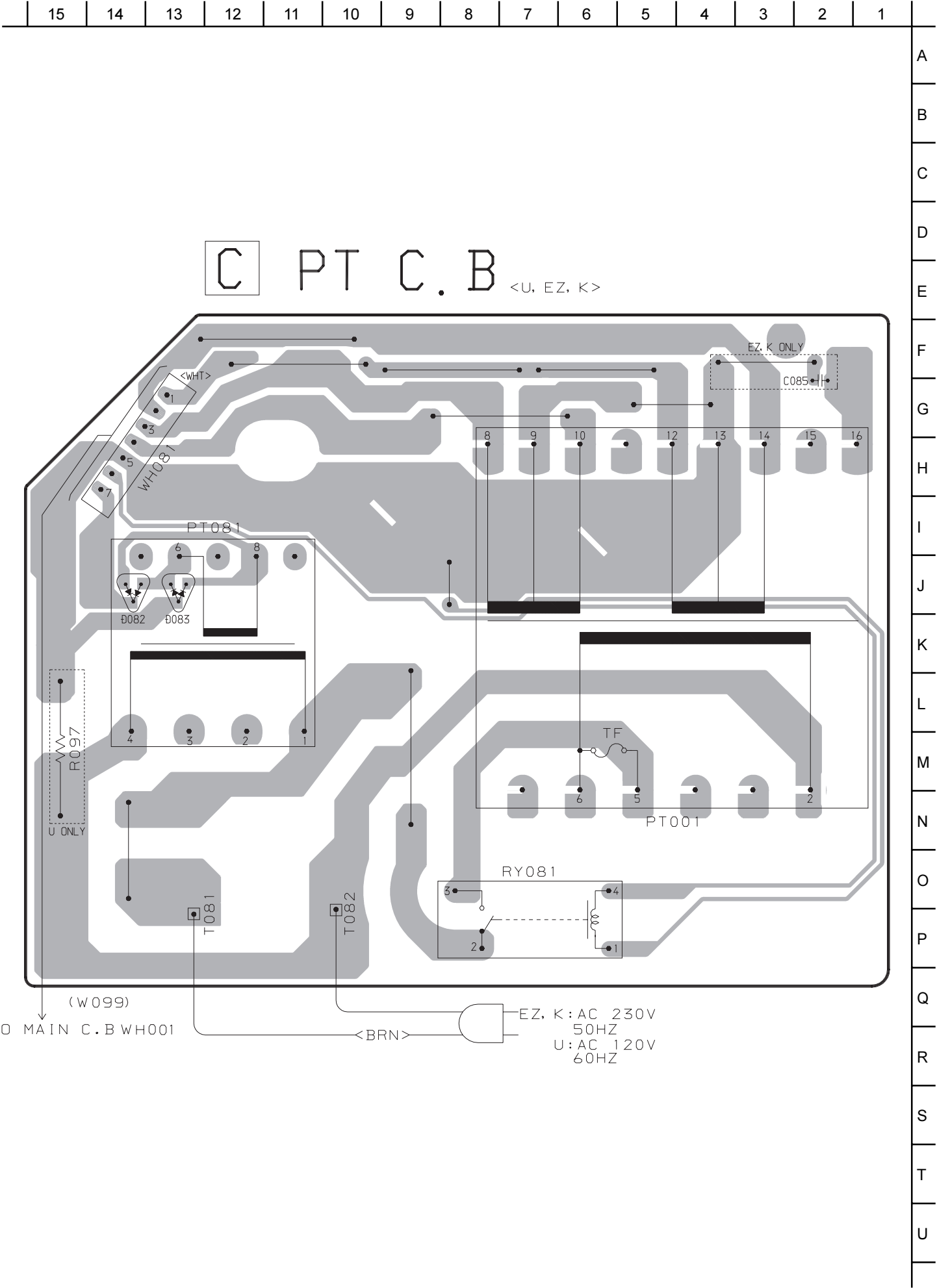




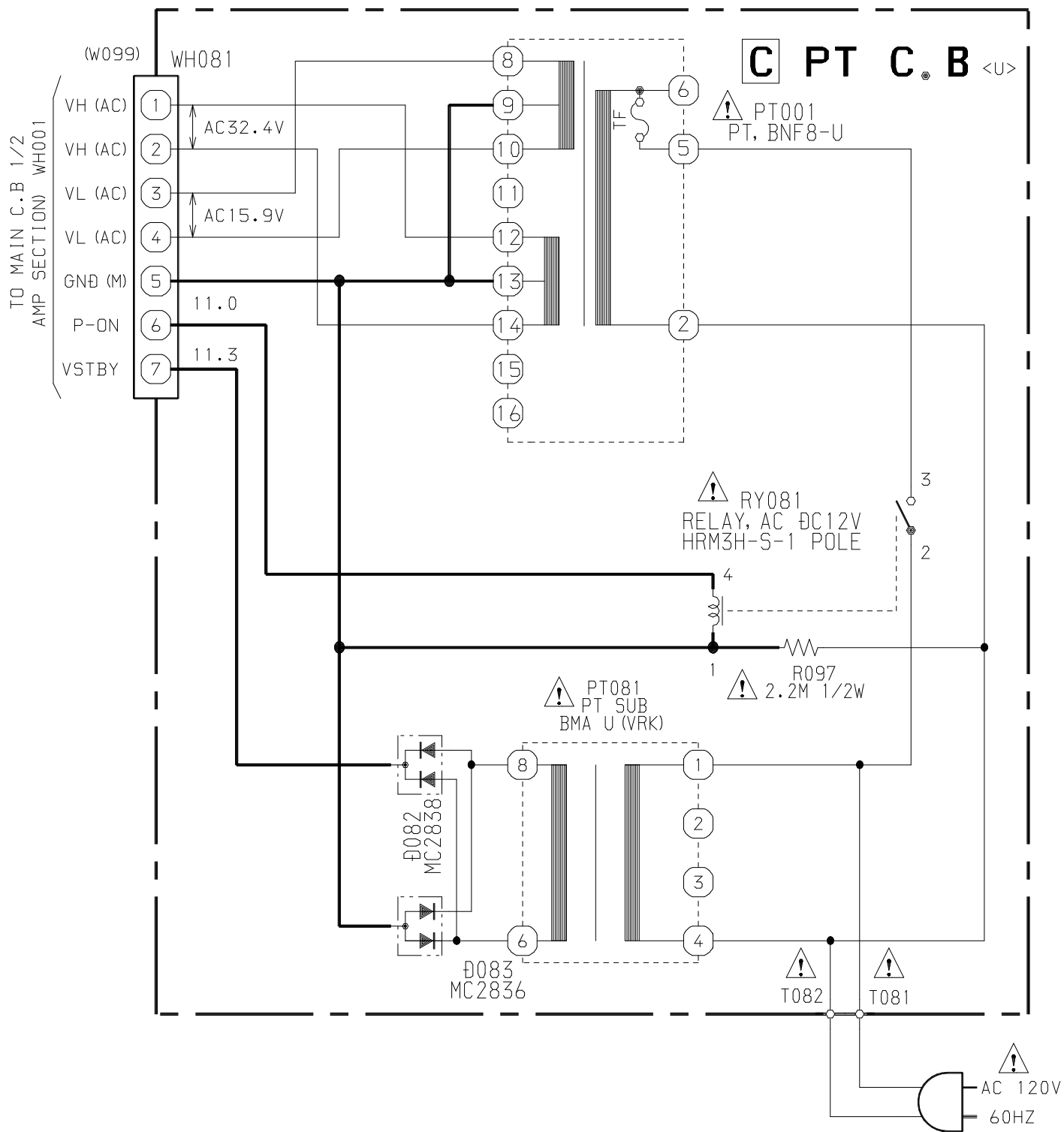
SCHEMATIC DIAGRAM-5 (FRONT / TOP / KEY / MOT / MIC / DECK)



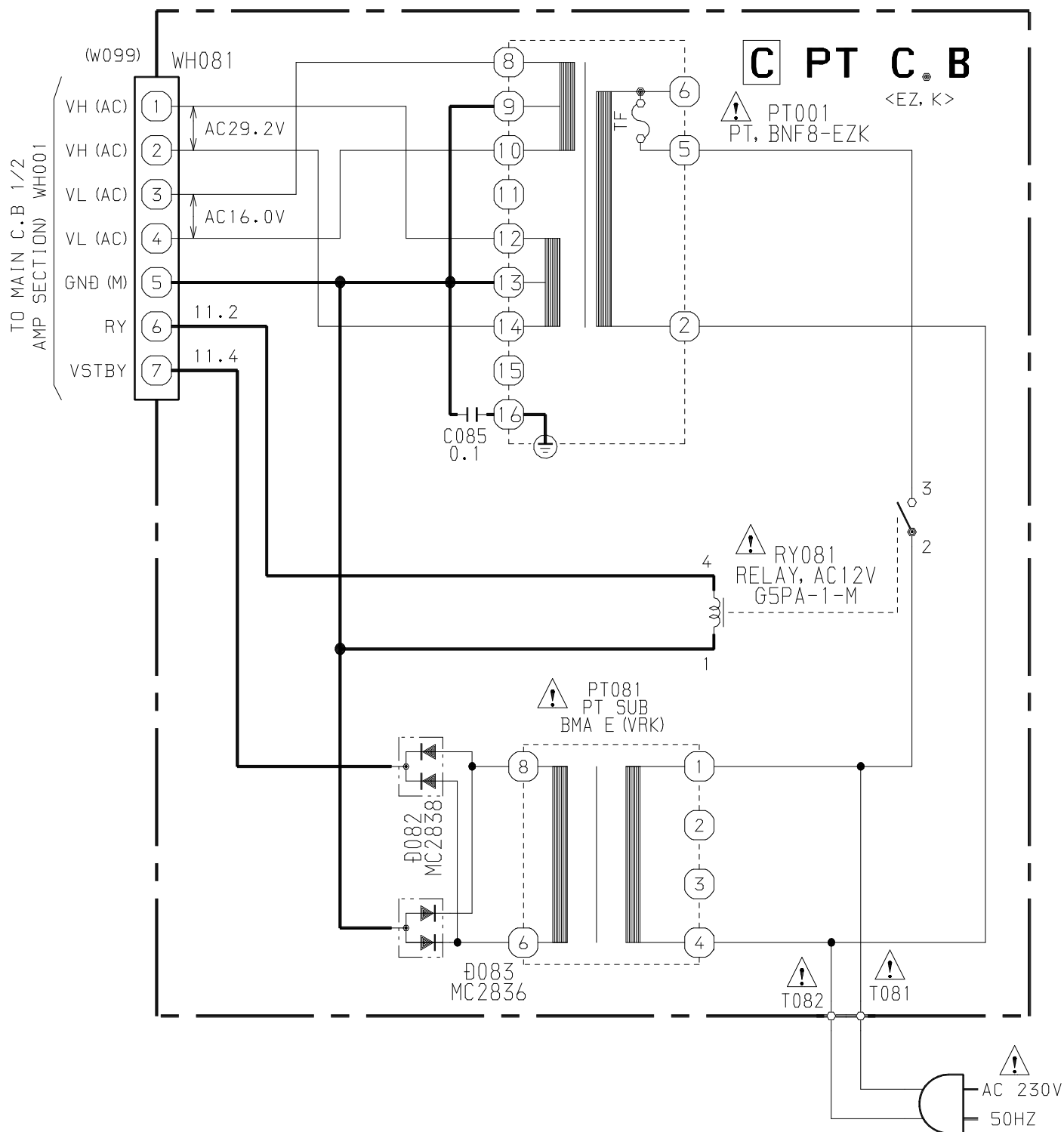
WIRING – 5 (PT) <U, EZ, K>



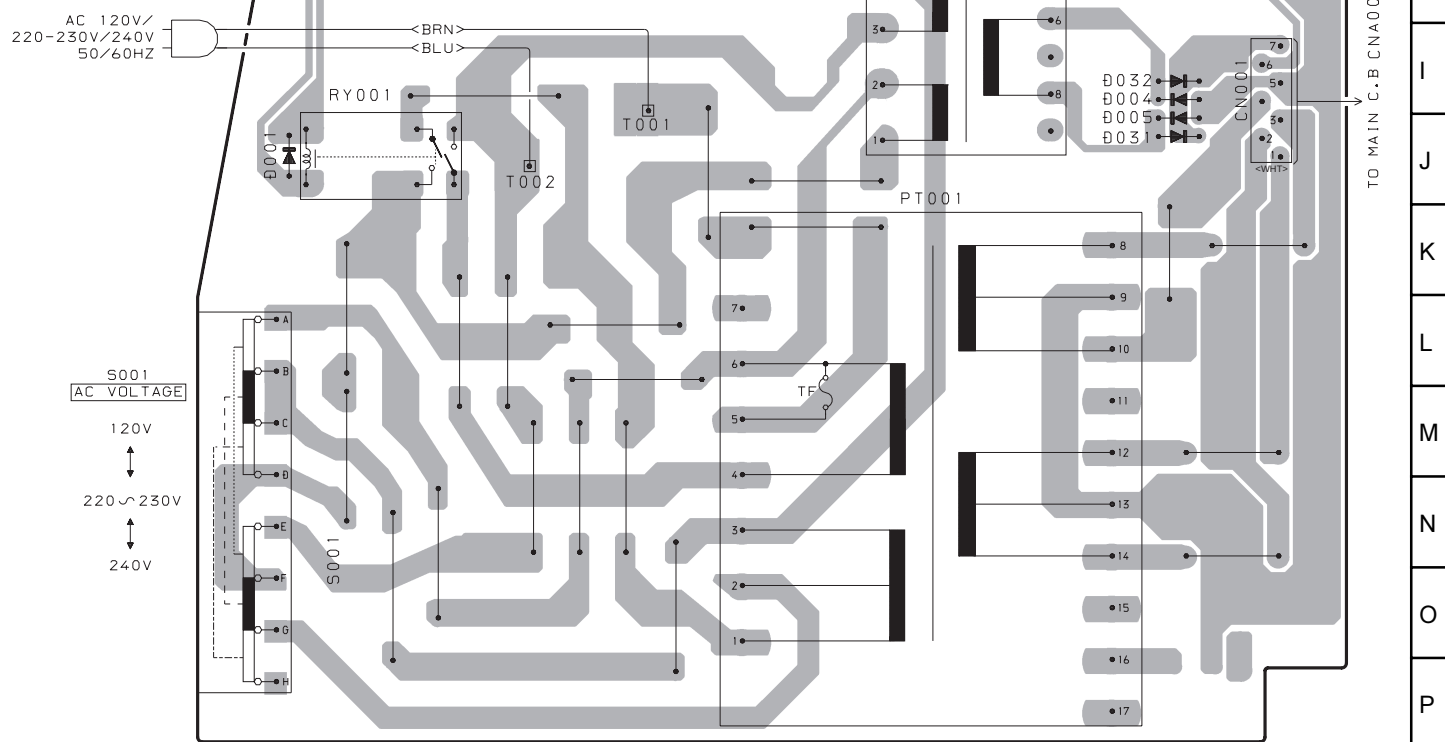
SCHEMATIC DIAGRAM – 6 (PT) <U>



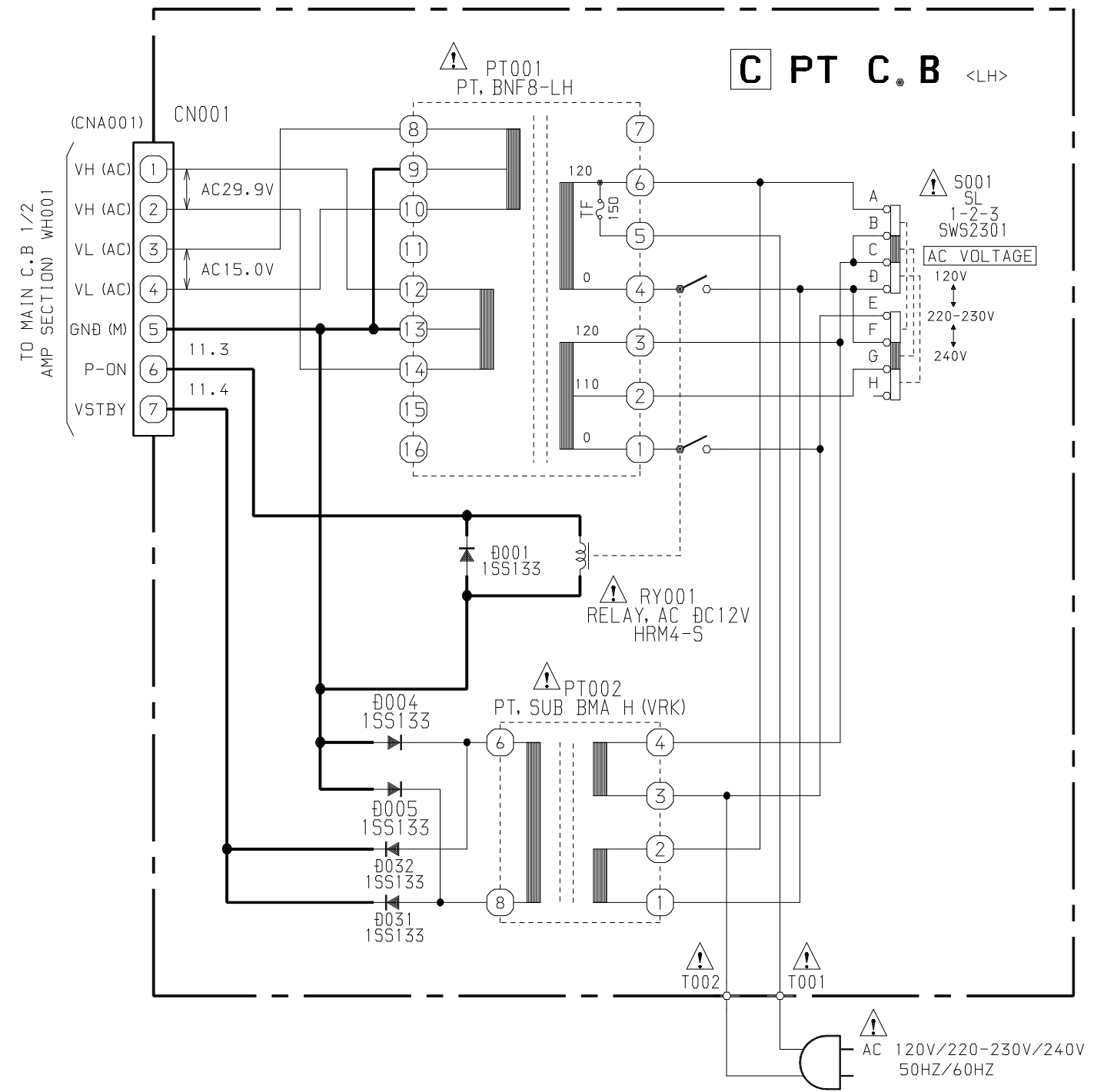
SCHEMATIC DIAGRAM – 7 (PT) <EZ,K>



15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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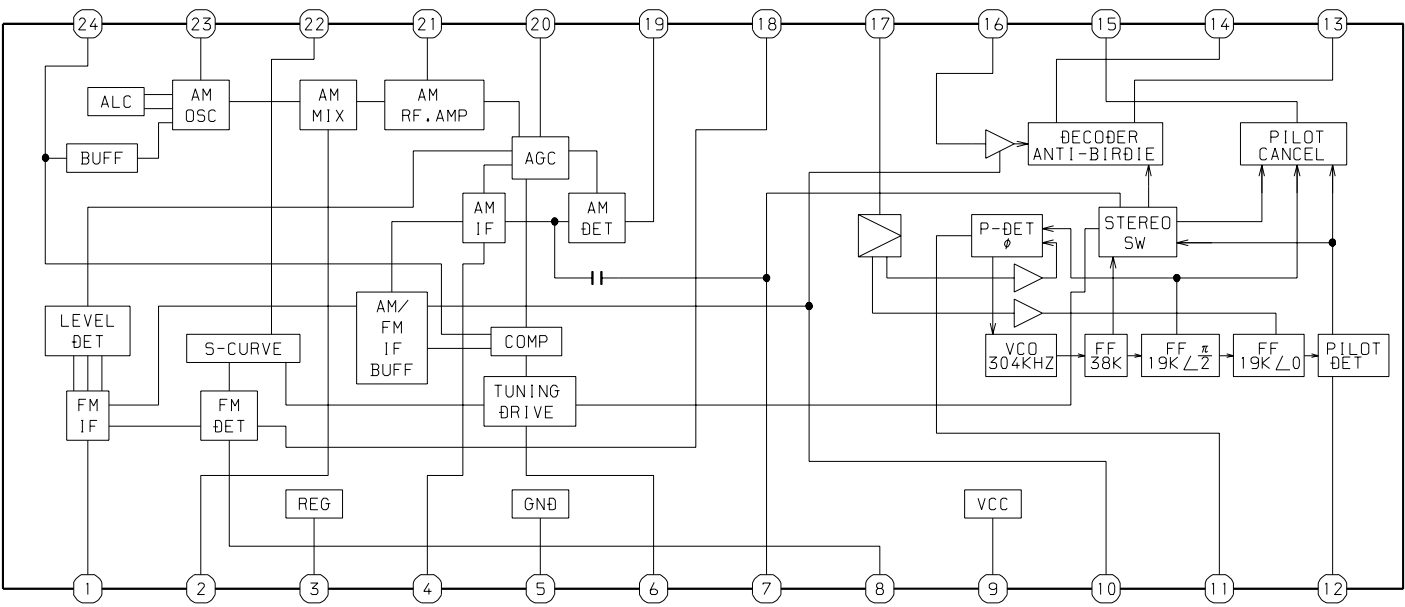
SCHEMATIC DIAGRAM – 8 (PT) <LH>



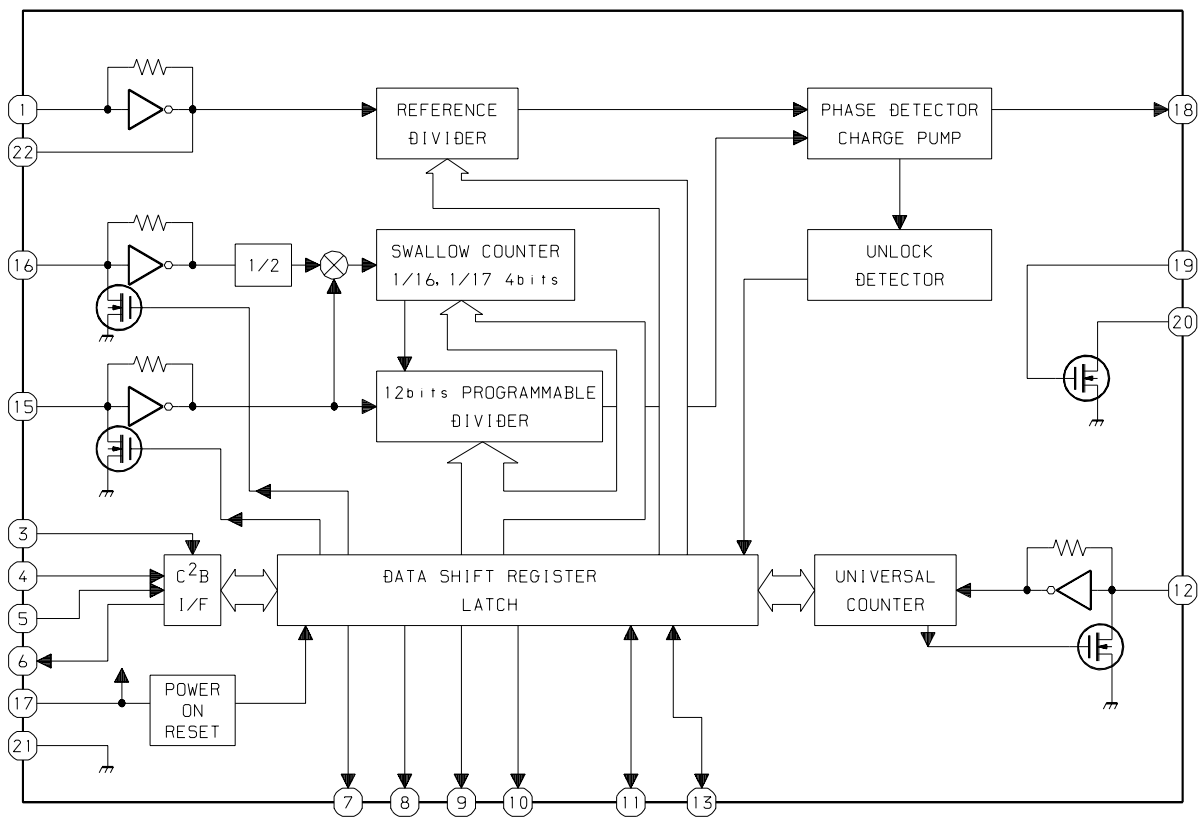
[illegible]

IC BLOCK DIAGRAM

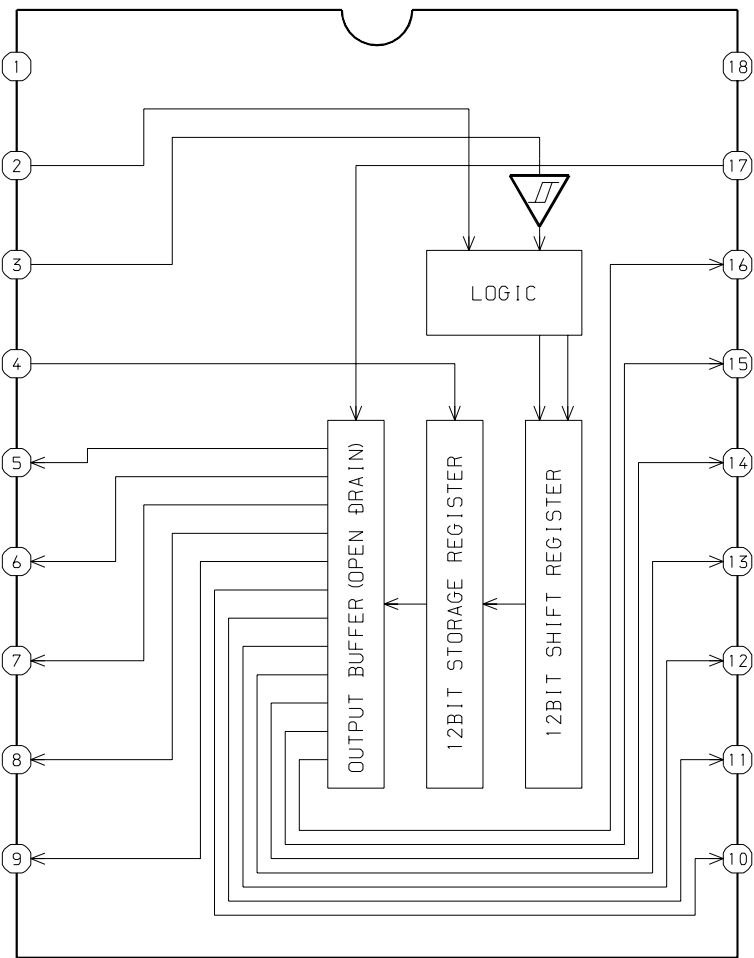
IC, LA1845L



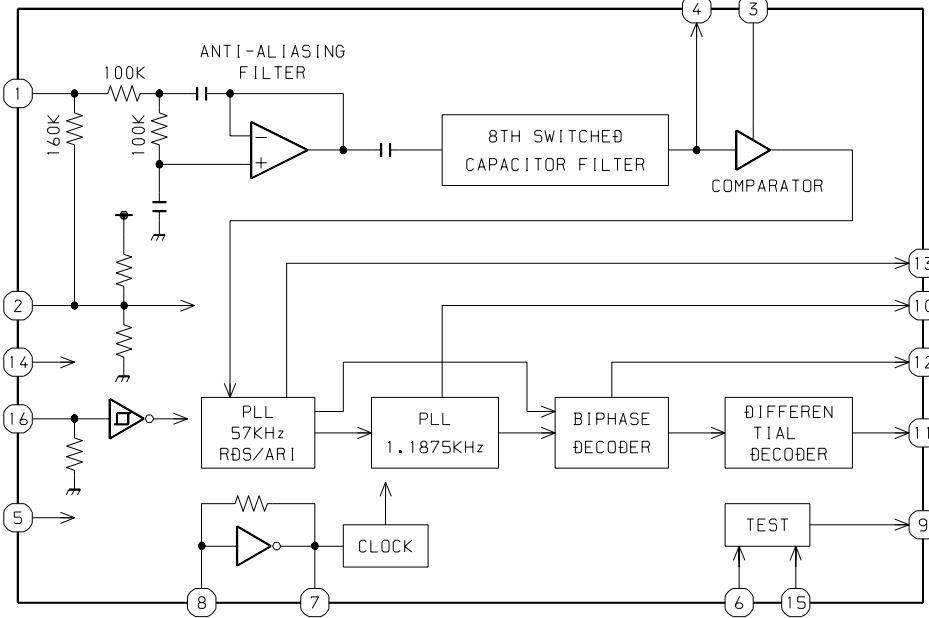
IC, LC72131D-N



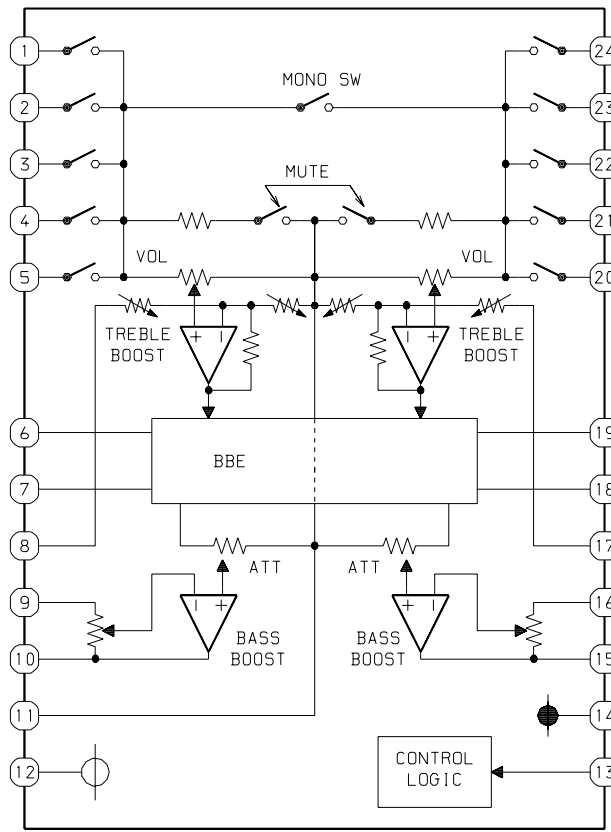
IC, BU2092F



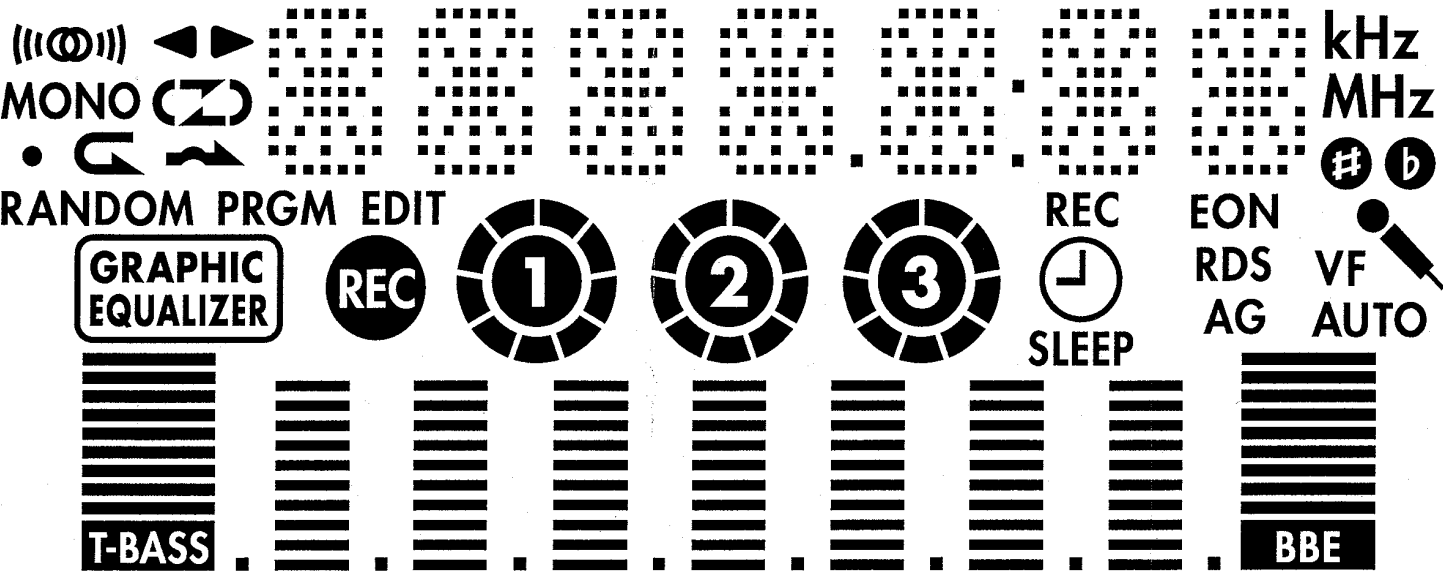
IC, BU1920FS



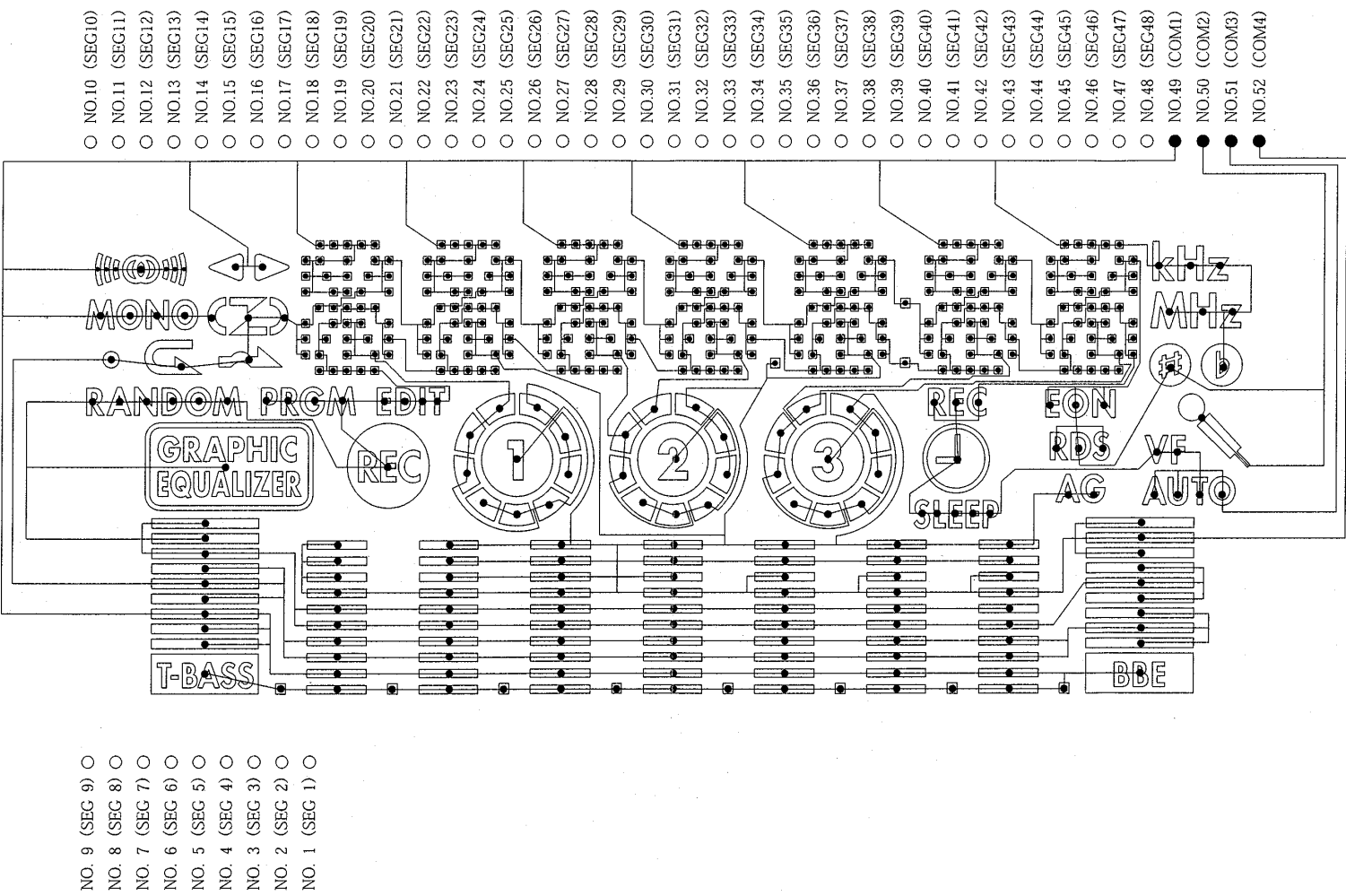
IC, M61503FP



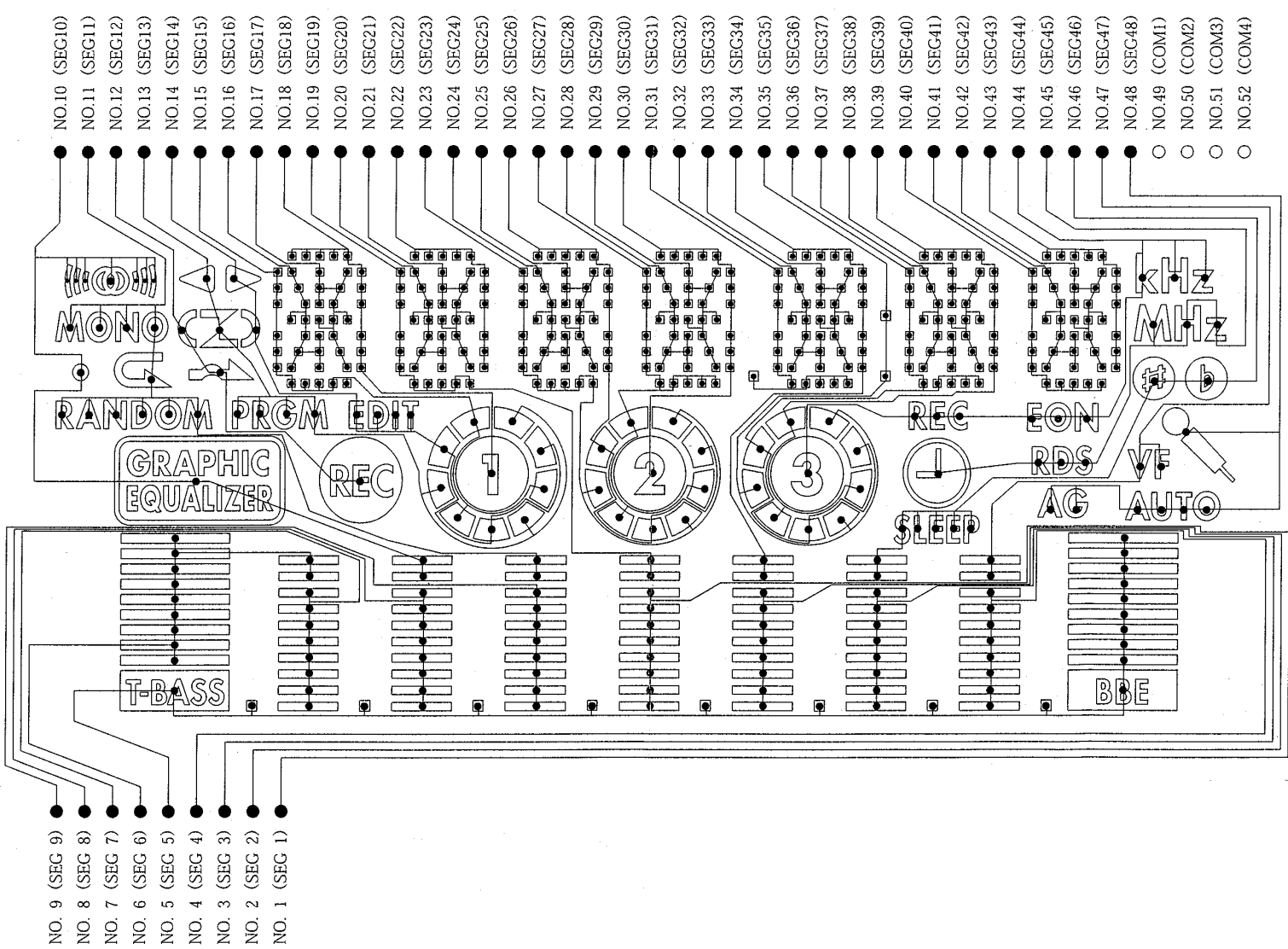
LCD DISPLAY
LCD, AIW4272 - 30PIN



COMMON WIRING



SEGMENT WIRING



IC DESCRIPTION

IC, LC877256A-5V18 <U,LH,G3EZ,K> / IC, LC877264V-5V24 <4EZ,5EZ>

Pin No.	Pin Name	I/O	Description
1	O-CD CLK	O	CD IC control clock output.
2	O-LEDSTB	O	STB signal make clock and data effective.
3	O-DATA	O	Data output.
4	O-CLK	O	Clock output.
5	O-CDDATA	O	CD IC control data output.
6	O-INI-SCAN	O	Initial scan output.
7	O-POWER	O	Power control ON/ $\overline{\text{OFF}}$ output.
8	I-DRF/I-STEREO	I	RF (radio frequency) detect/Tuner stereo detect input.
9	I-RDSDATA	I	RDS IC data input <G4EZ,G5EZ only>.
10	O-STB	—	Not used.
11	$\overline{\text{RES}}$	I	Reset input for MICON.
12	I-JOG	I	Dial jog rotary encoder input .
13	I-VOL	I	Volume rotary encoder input.
14	VSS1	—	Connected to ground.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD1	—	Digital power supply pin.
18	I- $\overline{\text{HOLD}}$	I	Power failure detected input.
19	I-KEY1	I	Key A/D input 1.
20	I-KEY2	I	Key A/D input 2.
21	I-KEY3	I	Key A/D input 3.
22	SPEANA-L	O	Spectrum analyser BPF switching control L output.
23	SPEANA-M	O	Spectrum analyser BPF switching control M output.
24	SPEANA-H	O	Spectrum analyser BPF switching control H output.
25	I-TU-SIG/I-MIC	I	Tuner signal input <G4EZ,G5EZ only>/MIC input (Not used).
26	I-CDSW	I	CD mehca switch input.
27	I-RDSCCLK/I-WRQ	I	RDS IC clock input <G4EZ,G5EZ only>/CD WRQ input.
28	I-TM-BASE	I	Reference clock input for timer switch.
29	I-RMC	I	System remote control signal input. "L" : ACTIVE
30 ~ 43	O-S1 ~ O-S14	O	LCD segment S1 ~ S14 output.
44	I-VF/O-S15	I/O	Not used/LCD segment S15 output.
45	I-KEYCON/O-S16	I/O	K-CON select diode input (Not used)/LCD segment S16 output.
46	I-ECO-OFF/O-S17	I/O	ECO-OFF data input <U,LH only>/LCD segment S17 output.
47	I-AM9K/10K/O-S18	I/O	AM9K/10Kselect diode input <U,LH only>/LCD segment S18 output.
48	I-KARAOKE/O-S19	I/O	Karaoke diode input <LH only>/LCD segment S19 output.
49	I-SW/O-S20	I/O	SW diode input (Not used)/LCD segment S20 output.
50	I-LW/O-S21	I/O	LW diode input <EZ,K only>/LCD segment S21 output.
51	I-RDS/O-S22	I/O	RDS input to diode <G4EZ,G5EZ only>/LCD segment S22 output.
52	I-DEMO/O-S23	I/O	Demo (on the stop) diode input (Not used)/LCD segment S23 output.
53	I-BU2099/O-S24	I/O	Not used/LCD segment S24 output.
54	VDD2	—	Digital power supply pin.
55	VSS2	—	Connected to ground.

Pin No.	Pin Name	I/O	Description
56 ~ 79	O-S25 ~ O-S48	O	LCD segment S25 ~ S48 output.
80	I-CST2	I	DECK cassette detection switch data input. "L" : ON
81	I-REB	I	DECK side B recordable switch. "L" : REC
82	I-CAM2	I	DECK CAM switch data input. "L" : ON
83 ~ 86	O-COM1 ~ O-COM4	O	LCD driver common.
87	I-AUTO2	I	DECK AUTO STOP switch data input.
88	I-REA	I	DECK side A recordable switch. "L" : REC
89	VSS3	—	Connected to ground.
90	VDD3	—	Digital power supply pin.
91	O-SOL	O	DECK solenoid output.
92	O-STBYLED	O	Standby LED ON/OFF output. "L" : ON
93	I-SUBQ	I	SUB-Q data input.
94	I-DISH	I	CD turnable photo sensor input.
95	I-SW2	I	Window position detection SW2.
96	I-SW1	I	Window position detection SW1.
97	I-TU-IFC	I	Tuner IF count input.
98	I-HP-MUTE	I	Head phone jack detection. "L" : MUTE (Not used)
99	O-PLL CE	O	Tuner PLL IC chip enable output.
100	O-CD CE	O	CD data chip enable output.

ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to AM 1710kHz (U,LH), MW 1602kHz (EZ,K) and check that the test point is 2160kHz $\pm$ 45Hz (U,LH), 2052kHz $\pm$ 45Hz (EZ,K)
2. AM/MW VT Check
Settings : • Test point : TP1 (VT)
Method : Set to AM 1710kHz (U,LH), MW 1602kHz (EZ,K) and check that the test point is less than 8.5V (U,LH), less than 8.0V (EZ,K). Then set to AM 530kHz (U,LH), MW 531kHz (EZ,K) and check that the test point is more than 0.6V.
3. AM/MW Tracking Adjustment
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : L951 (1/3)
Method : Set to AM 1000 kHz (U,LH), MW 999kHz (EZ,K) and adjust L951 (1/3) so that the test point becomes maximum.
4. LW VT Adjustment<EZ,K>
Settings: • Test point :TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V $\pm$ 0.05V.
Then set to LW 290kHz and check that the test point is less than 8.0V.
5. LW Tracking Adjustment<EZ,K>
Settings : • Test point :TP5 (Lch),TP6 (Rch)
• Adjustment location :
L941.....144kHz
TC942.....290kHz
Method: Set up TC942 to center before adjustment. The level at 144kHz is adjusted to maximum by L941. Then the level at 290kHz is adjusted to maximum by TC942.
6. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V then set to FM 87.5MHz and check that the test point is more than 0.5V.
7. FM Tracking Adjustment<U,LH>
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : L903
Method : Set to FM 87.5 MHz and adjust L903 so that the test point is less than 9.0dB μ V.
8. FM Tracking Check<EZ,K>
Settings : • Test point : TP5 (Lch), TP6 (Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 13.0dB μ V.
9. AM IF Adjustment
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location :
L802.....450kHz
10. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
: TP5 (Lch), TP6 (Rch) (Distortion)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V $\pm$ 300mV.
Then check that the distortion is less than 1.2%.

< DECK SECTION >

1. Tape Speed Check
Settings : • Test tape : TTA-100
• Test point : TP5 (Lch), TP6 (Rch)
Method : Play back the test tape and check that the frequency counter reads 3000Hz $\pm$ 5Hz (FWD) and $\pm$ 45Hz (REV) with respect to forward speed.
2. Head Azimuth Adjustment
Settings : • Test tape : TTA-330
• Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
Next, perform on REV PLAY mode.
3. PB Frequency Response Check
Settings : • Test tape : TTA-330
• Test point :TP5 (Lch), TP6 (Rch)
Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB $\pm$ 3dB.
4. PB Sensitivity Check
Settings : • Test tape : TTA-200
• Test point :TP5 (Lch), TP6 (Rch)
Method : Play back the test tape and check that the output level of the test point is 110mV $\pm$ 30mV.
5. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA-602
• Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : SFR 451,SFR452
• Input signal : 8kHz/1kHz (LINE IN)(-20VU)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP5, TP6 becomes 10mV. Record and play back the 1kHz and 8kHz signal and adjust SFRs so that the output of the 8kHz signals is 0dB $\pm$ 1dB with respect to that of the 1kHz signal.
6. REC/PB Sensitivity Check
Settings : • Test tape : TTA-602
• Test point : TP5 (Lch), TP6 (Rch)
• Input signal : 1kHz (LINE IN)(0VU)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 100mV. Record and play back the 1kHz signals and check that the output is -1dB $\pm$ 3.5dB.

< FRONT SECTION >

1. μ -CON OSC Adjustment
Settings : • Test point : TP7 (K-SCAN) and TP8 (GND)
• Adjustment location : L151
Method : Insert AC plug while pressing TUNER function key and POWER key. Adjust L151 so that the frequency at the test point is 97.28Hz $\pm$ 0.10Hz.

CD TEST MODE

1. How to Start the CD Test Mode

While pressing the FUNCTION button, insert the AC plug to the power outlet.
When the test mode is started, the message [TEST] is displayed.

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC plug.

3. Function Descriptions and Application of the CD Test Mode

No	Mode	Operation	Display	Function	Checking item
1	Start mode		All indicators light	All FL indicators light	- FL check - Microprocessor check
2	Search mode	STOP button	CD	- LD illuminates all the time - Focus search continuous operations *1 - Spindle motor continuous kick	- APC circuit check - Laser current measurement - Focus search waveform check - Focus error waveform check (DRF in the search mode is ignored)
3	Play mode	Play button	Normal	- Normal playback - If TOC cannot be read, focus search is continued	- Each servo circuit is checked - DRF check
4	Traverse mode	PAUSE button	Normal	- Tracking servo OFF/ON - Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON	Tracking balance check
5	Sled mode	FF button	TEST	- Pickup moves to the inner circumference *2 - At the same time, lens kicks to the inner circumference	- Sled circuit check - Tracking circuit check - Mechanism operation check - Pickup check
		RWD button	TEST	- Pickup moves to the outer circumference *2 - At the same time, lens kicks to the outer circumference	
6	Spindle mode	REC button	All indicators light	The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again	- Spindle circuit - Spindle motor
7	RF AGC mode	TUNER/BAND button	AGC ON/OFF	Each time the "TUNER" button is pressed, the AGC repeats ON/OFF	- PU good/faulty check - RF AMP circuit check

*1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations can not be performed correctly.
In such a case, turn off the main power. After cooling down the machine, restart the machine.

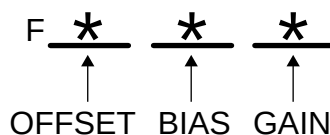
*2: Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

4. Displaying the Adjustment Result of the Automatic Adjustment Items

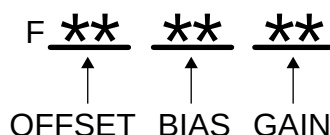
The automatic adjustment values of the focus and tracking adjustment can be displayed on the screen.

4-1. Displaying the automatic adjustment result for the focus offset cancel and gain

1. Select the "Start" mode. (All lights are turned on.)
2. Press the "TAPE" button until the display "F***" appears, and decide whether to display the automatic adjustment value or not.
To display the automatic adjustment value, set "1". If not, set "0".



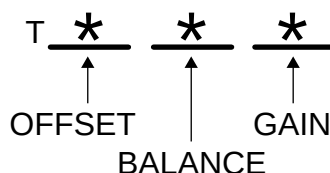
3. Press the "PLAY" button to play CD.
4. Press the "CD" button.
5. An automatic adjustment value is shown as "F*****" on the display.
(When "0" is selected for all items in step 2 of 4-1, no value is shown.)



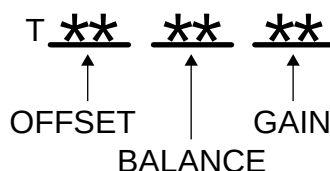
6. After the confirmation is completed, press "CD" twice button and the mode returns to the "PLAY" mode.

4-2. Displaying the automatic adjustment result of the tracking offset cancel, balance and gain

1. Select the "Start" mode. (All lights are turned on.)
2. Press the "VIDEO/AUX" button until the display "T***" is shown, and decide whether to display the automatic adjustment value or not.
To display the automatic adjustment value, set "1". If not, set "0".

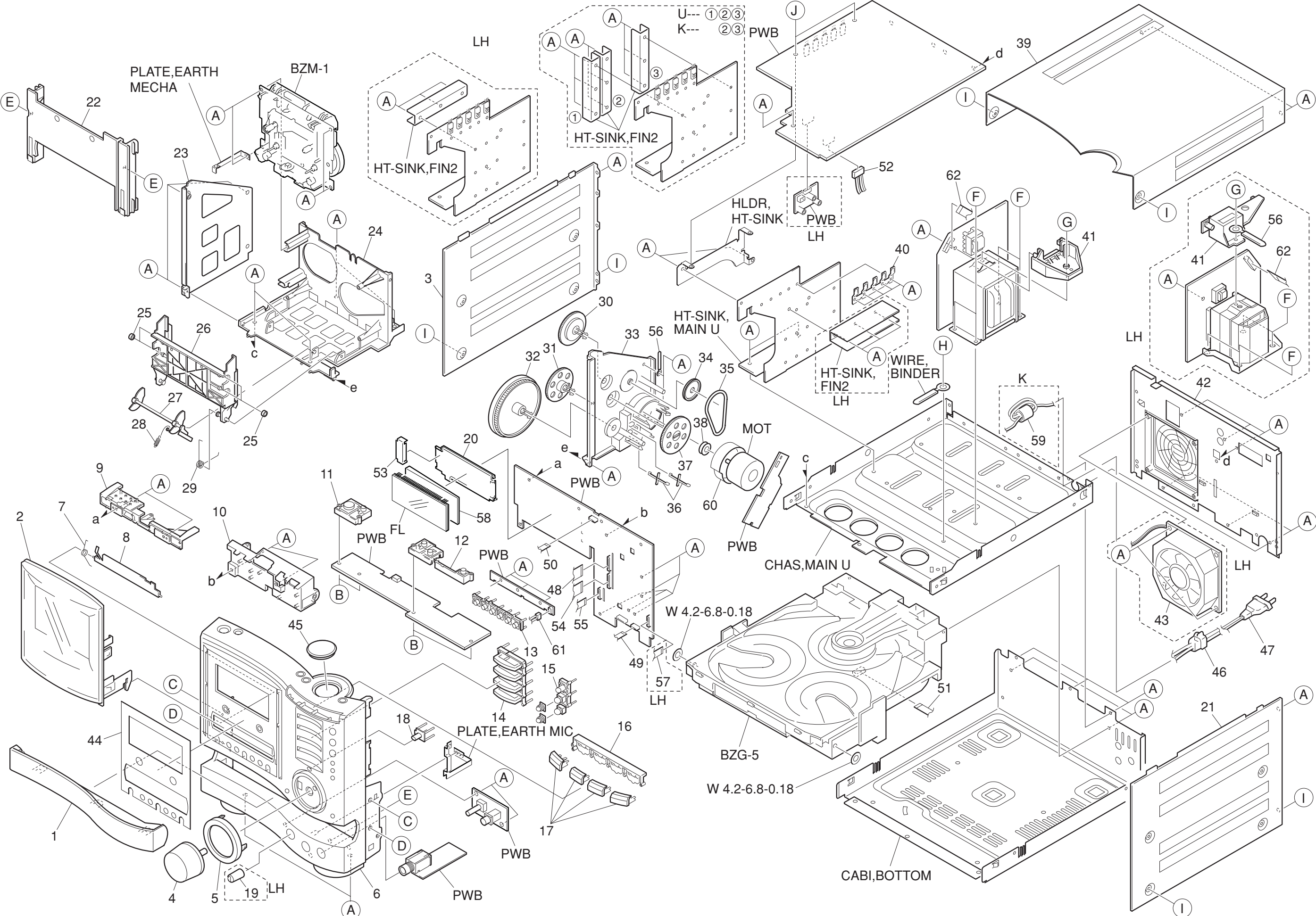


3. Press the "PLAY" button to play CD.
4. Press twice the "CD" button.
5. The automatic adjustment value is shown as "T*****" on the display.
(When "0" is selected for all items in step 2 of 4-1, no value is shown.)



6. After the confirmation is completed, press the "CD" button and the mode returns to "PLAY" mode.

Note: The automatic adjustment value can be shown but cannot be changed.

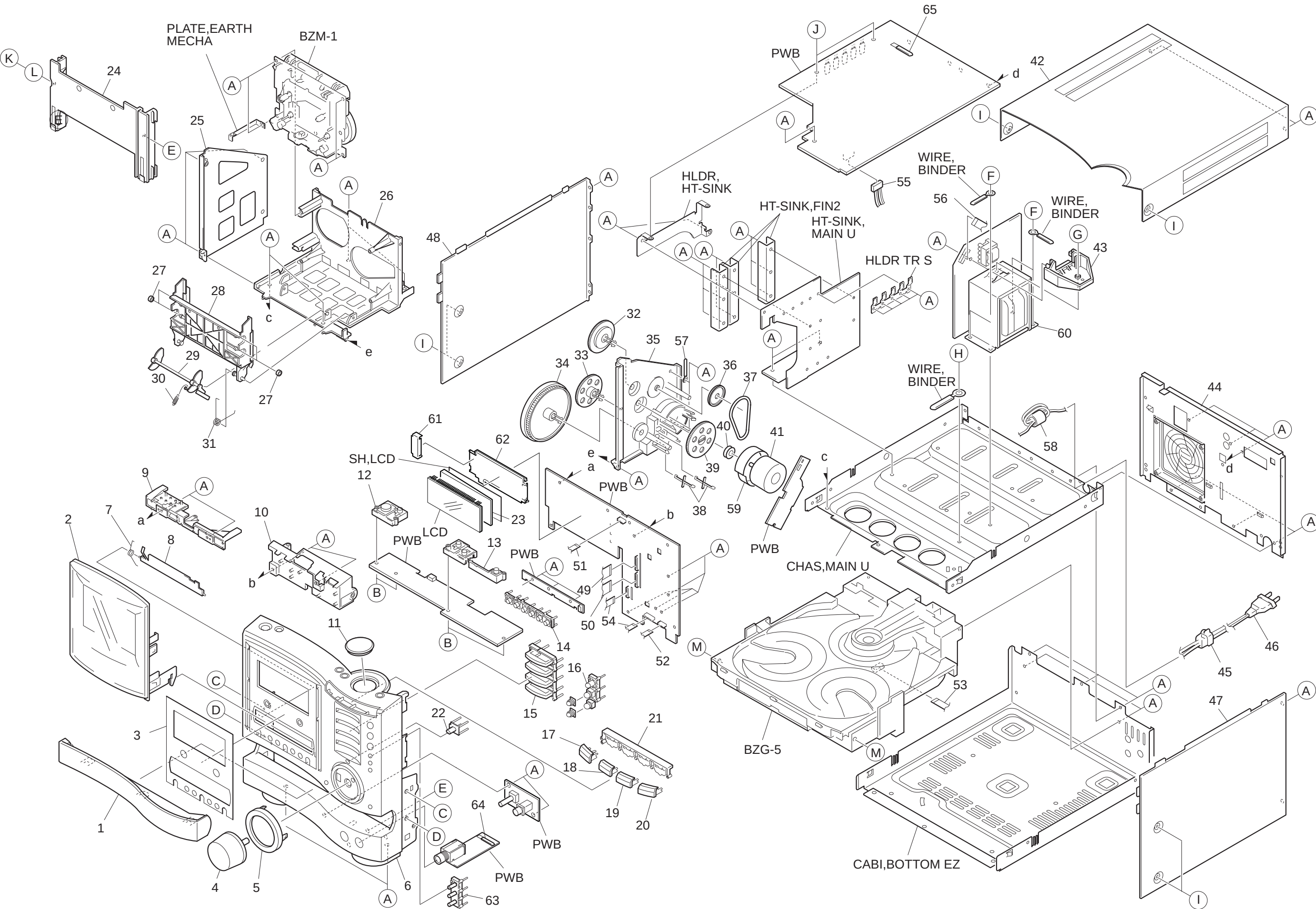


MECHANICAL PARTS LIST 1 / 1 <U,LH,K>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF8-008-010		PANEL,TRAY	39	8B-NF8-081-010		PANEL, TOP
2	8B-NF8-113-010		WINDOW,ASSY K GR G5<G5K>	40	8B-NF9-211-010		HLDR,TR S
2	8B-NF8-112-010		WINDOW,ASSY LH GR G3<G3K>	41	8A-NF9-208-010		HLDR,PWB PT<U,K>
2	8B-NF8-111-010		WINDOW,ASSY U BL G3<LH,U>	41	8A-NF7-225-010		HLDR,PWB PT 85S<LH>
3	8B-NF8-082-110		PANEL, LEFT	42	8B-NF8-093-010		CABI,REAR K1SM G3<G3K>
4	8B-NF8-014-010		KNOB,RTRY VOL	42	8B-NF8-094-010		CABI,REAR K1SM G5<G5K>
5	8B-NF8-011-010		RING,VOL<EXCEPT LH,U>	42	8B-NF8-088-010		CABI,REAR LHSM G3<LH>
5	8B-NF8-027-010		RING,VOL U<LH,U>	42	8B-NF8-086-010		CABI,REAR USM G3<U>
6	8B-NF8-057-010		CABI,FR EZ<K>	43	87-A91-751-010		FAN,DSB0812M-S382 -400MM<LH>
6	8B-NF8-061-010		CABI,FR LH DINA<LH>	44	8B-NF8-040-010		PLATE,DISP H<LH>
6	8B-NF8-001-010		CABI,FR U<U>	44	8B-NF8-013-010		PLATE,DISP U<U,K>
7	8B-NF8-223-010		SPR-T, FLAP	45	8B-NF8-015-010		KNOB,RTRY JOG
8	8B-NF8-030-010		PANEL,FLAP	46	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT U>
9	8B-NF8-206-010		HLDR,PWB L	46	87-A91-422-010		BUSHING,AC CORD (U) <U>
10	8B-NF8-207-010		HLDR,PWB R	47	87-A80-157-010		AC CORD ASSY,E BLK CC<EXCEPT U>
11	8B-NF8-016-010		KEY,POWER	47	87-A80-149-010		AC CORD ASSY,U BLK<U>
12	8B-NF8-026-010		KEY,ENTER	48	88-915-151-110		FF-CABLE,15P 1.25 150MM
13	8B-NF8-037-010		KEY,KARAOKE<LH>	49	88-905-331-110		FF-CABLE, 5P 1.25 330MM
13	8B-NF8-036-010		KEY,OPE<U,K>	50	88-906-081-110		FF-CABLE,6P 1.25 80MM
14	8B-NF8-041-110		KEY,FUNCTION	51	88-906-401-110		FF-CABLE,6P 1.25
15	8B-NF8-019-010		KEY,ASSY OPEN/CLOSE<EXCEPT U,LH>	52	8B-NF8-654-010		CONN ASSY,8P (400)
15	8B-NF8-034-010		KEY,ASSY OPEN/CLOSE U<LH,U>	53	8B-NF8-204-010		COVER, LCD
16	8B-NF8-210-010		KEY,CD	54	8B-NF8-655-010		FF-CABLE,15P 1.25 150MM BLACK
17	8B-NF8-025-010		BTN,CD	55	88-908-451-110		FF-CABLE,8P 1.25 450MM
18	8B-NF8-029-010		LENS,SENSOR	56	87-064-185-010		HLDR,WIRE
19	8B-NF8-031-010		KNOB,RTRY MIC<LH>	57	88-904-351-110		FF-CABLE, 4P 1.25<LH>
20	8B-NF8-203-010		GUIDE,LCD	58	8B-NF8-051-010		REFLECTOR,LCD
21	8B-NF8-083-110		PANEL,RIGHT	59	87-A90-457-010		F-BEAD,15-25-15 E251<K>
22	8B-NF8-219-010		HLDR,WINDOW	60	8B-NF8-238-010		RING,SHLD MOT
23	8B-NF8-218-010		HLDR,MECH LEFT	61	8B-NF8-650-010		CONN ASSY,2P(35)
24	8B-NF8-216-110		HLDR,MECH BOTTOM	62	8B-NF8-656-010		F-CABLE,7P 2.5 250MM<U,K>
25	8B-NF8-224-010		ROLLER,CASS	62	8B-NF8-652-010		CONN ASSY,7P TID-A<LH>
26	8B-NF8-209-010		BOX ASSY,CASS	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
27	8B-NF8-220-010		LEVER,EJECT	B	87-067-579-010		TAPPING SCREW, BVT2+3-8
28	8B-NF8-225-010		SPR-E,EJECT	C	87-591-094-410		TAPPING SCREW, QIT+3-6
29	8B-NF8-222-010		SPR-T,CASS	D	87-721-097-410		QT2+3-12 GLD
30	8B-NF8-213-010		GEAR,RELAY WINDOW	E	88-AR1-217-010		S-SCREW,BFT2+3-8
31	8B-NF8-215-010		GEAR,WINDOW	F	87-067-975-010		S-SCREW,IT+4-8
32	8B-NF8-212-010		GEAR,CASS CAM	G	87-067-689-010		TAPPING SCREW, BVTT+3-8<LH>
33	8B-NF8-217-010		HLDR,MECH RIGHT	H	87-067-688-010		BVTT+3-6
34	84-ZG1-207-010		PULLEY,RELAY	I	87-067-641-010		UTT2+3-8 (W/O SLOT)BL
35	84-ZG1-209-010		BELT,SQL.8-117.7	J	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
36	8B-NF8-221-010		LEVER,SW				
37	8B-NF8-214-010		GEAR,RELAY				
38	84-ZG1-267-010		PULLEY,LOAD MO 8				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

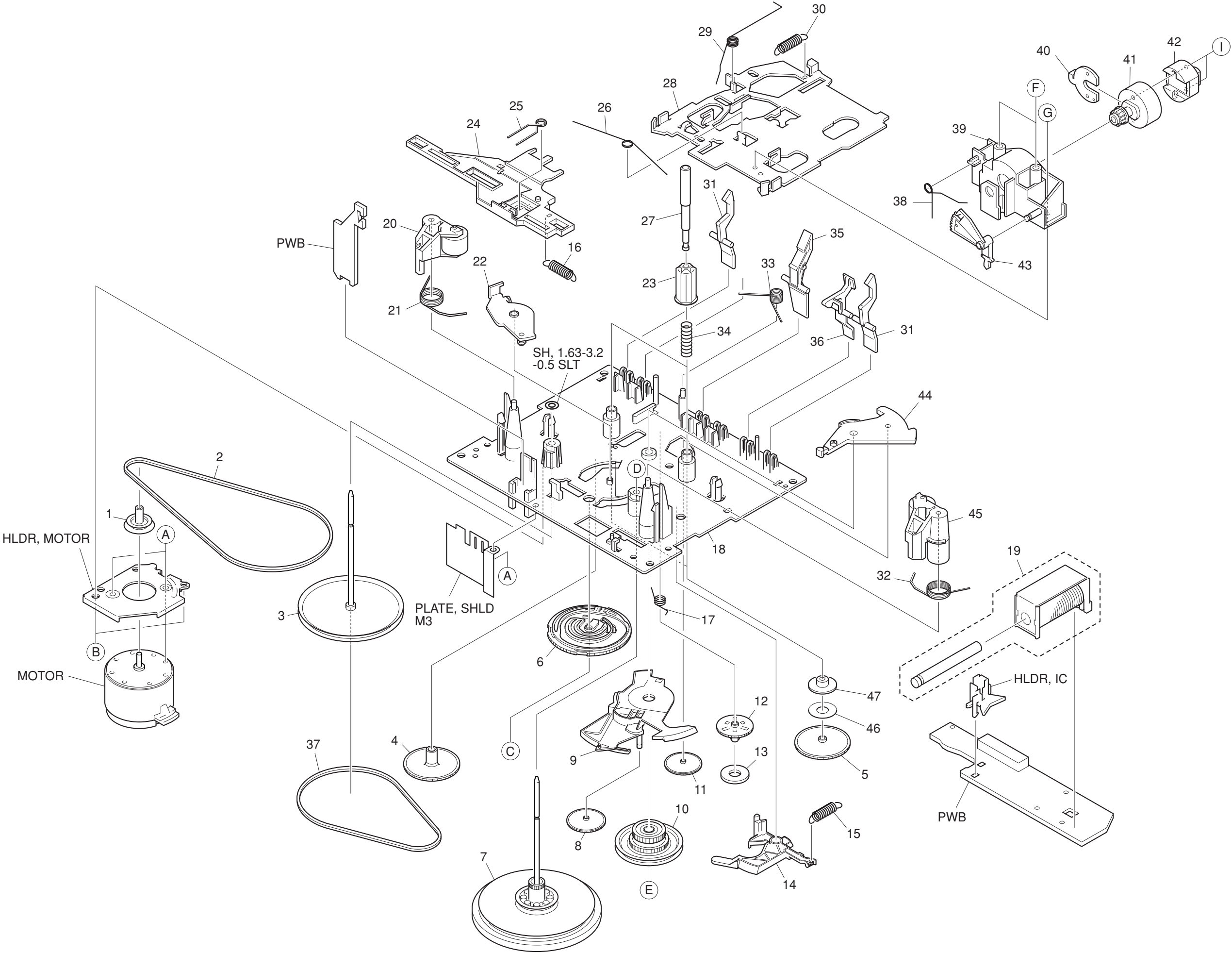


MECHANICAL PARTS LIST 1 / 1 <EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF8-008-010		PANEL,TRAY	41	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
2	8B-NF8-112-210		WINDOW,ASSY LH GR G3<3EZ>	42	8B-NF8-081-110		PANEL,TOP
2	8B-NF8-116-210		WINDOW,ASSY EZ BL G5<5EZ>	43	8A-NF9-208-010		HLD, PWB PT
2	8B-NF8-115-210		WINDOW,ASSY EZ BL G4<4EZ>	44	8B-NF8-089-010		CABI, REAR EZ1SM G3<3EZ>
3	8B-NF8-013-010		PLATE,DISP U	44	8B-NF8-091-010		CABI, REAR EZSM G5<5EZ>
4	8B-NF8-014-010		KNOB,RTRY VOL	44	8B-NF8-090-010		CABI, REAR EZSM G4<4EZ>
5	8B-NF8-011-010		RING, VOL<3EZ>	45	87-085-185-010		BUSHING, AC CORD (E)
5	8B-NF8-027-010		RING, VOL U<5EZ, 4EZ>	△ 46	87-A80-157-010		AC CORD ASSY, E BLK CC
6	8B-NF8-057-110		CABI, FR EZ<3EZ>	47	8B-NF8-083-110		PANEL, RIGHT
6	8B-NF8-056-110		CABI, FR EZ-R<5EZ, 4EZ>	48	8B-NF8-082-210		PANEL, LEFT
7	8B-NF8-223-010		SPR-T, FLAP	49	88-915-151-110		FF-CABLE, 15P 1.25 150MM
8	8B-NF8-030-010		PANEL, FLAP	50	8B-NF8-655-010		FF-CABLE, 15P 1.25 150MM BLACK
9	8B-NF8-206-110		HLD, PWB L	51	88-906-081-110		FF-CABLE, 6P 1.25 80MM
10	8B-NF8-207-210		HLD, PWB R	52	88-905-331-110		FF-CABLE, 5P 1.25 330MM
11	8B-NF8-015-010		KNOB, RTRY JOG	53	88-906-401-110		FF-CABLE, 6P 1.25
12	8B-NF8-016-010		KEY, POWER	54	88-908-451-110		FF-CABLE, 8P 1.25 450MM
13	8B-NF8-026-010		KEY, ENTER	55	8B-NF8-654-010		CONN ASSY, 8P (400)
14	8B-NF8-036-010		KEY, OPE	56	8B-NF8-656-010		F-CABLE, 7P 2.5 250MM
15	8B-NF8-041-110		KEY, FUNCTION	57	87-064-185-010		HLD, WIRE
16	8B-NF8-019-110		KEY, ASSY OPEN/CLOSE<3EZ>	58	87-A90-457-010		F-BEAD, 15-25-15 E251
16	8B-NF8-034-110		KEY, ASSY OPEN/CLOSE U<5EZ, 4EZ>	△ 59	8B-NF8-238-010		RING, SHLD MOT
17	8B-NF8-076-010		BTN, CD 1	60	8B-NF8-608-010		PT, BNF8-EZK
18	8B-NF8-077-010		BTN, CD 2	61	8B-NF8-204-010		COVER, LCD
19	8B-NF8-078-010		BTN, CD 3	62	8B-NF8-203-110		GUIDE, LCD
20	8B-NF8-025-110		BTN, CD DISC CHANGE	63	8B-NF8-035-010		KEY, RDS<5EZ, 4EZ>
21	8B-NF8-210-110		KEY, CD	64	87-A90-460-010		HLD, WIRE 2.5-7P
22	8B-NF8-029-010		LENS, SENSOR	65	87-A90-510-010		HLD, WIRE 2.5-9P
23	8B-NF8-051-010		REFLECTOR, LCD	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
24	8B-NF8-219-010		HLD, WINDOW	B	87-067-579-010		TAPPING SCREW, BVT2+3-8
25	8B-NF8-218-110		HLD, MECH LEFT	C	87-591-094-410		TAPPING SCREW, QIT+3-6
26	8B-NF8-216-210		HLD, MECH BOTTOM	D	87-721-097-410		QT2+3-12 GLD
27	8B-NF8-224-010		ROLLER, CASS	E	88-AR1-217-010		S-SCREW, BFT2+3-8
28	8B-NF8-209-110		BOX ASSY, CASS	F	87-067-975-010		S-SCREW, IT+4-8
29	8B-NF8-220-010		LEVER, EJECT	G	87-067-689-010		TAPPING SCREW, BVTT+3-8
30	8B-NF8-225-010		SPR-E, EJECT	H	87-067-688-010		BVTT+3-6
31	8B-NF8-222-010		SPR-T, CASS	I	87-B10-091-010		UTT2+3-10 W/O BLK
32	8B-NF8-213-110		GEAR, RELAY WINDOW	J	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
33	8B-NF8-215-010		GEAR, WINDOW	K	87-721-096-410		QT2+3-10 GLD
34	8B-NF8-212-110		GEAR, CASS CAM	L	87-067-747-010		W, 4.3-14-1
35	8B-NF8-217-010		HLD, MECH RIGHT	M	82-NE8-215-010		W 4.2-7-0.18
36	84-ZG1-207-010		PULLEY, RELAY				
37	84-ZG1-209-010		BELT, SQ1.8-117.7				
38	8B-NF8-221-010		LEVER, SW				
39	8B-NF8-214-010		GEAR, RELAY				
40	84-ZG1-267-010		PULLEY, LOAD MO 8				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
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G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray



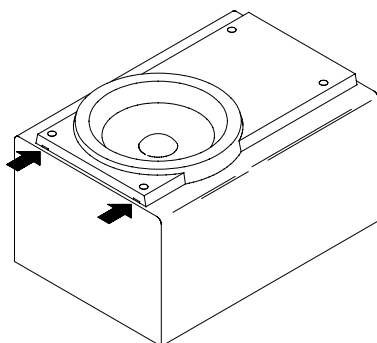
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-271-010		PULLEY,MOT ZM-1	31	82-ZM1-240-110		LVR,REC(*)
2	82-ZM1-354-010		BELT,SBU MAIN2 EPDM	32	82-ZM1-259-310		SPR-T,PINCH R
3	82-ZM1-234-310		FLY-WHL ASSY,L	33	82-ZM1-257-010		SPR-T,CAS
4	82-ZM1-226-010		GEAR,REW	34	86-ZM1-221-010		SPR-C,BT 2L
5	82-ZM1-216-510		GEAR,REEL	35	82-ZM1-242-010		LVR,CAS
6	82-ZM1-221-310		GEAR,CAM(*)	36	82-ZM1-243-010		LVR,STOP
7	82-ZM1-237-610		FLY-WHL ASSY,R	37	82-ZM1-338-110		BELT,FR 4
8	82-ZM1-225-210		GEAR,FR	38	82-ZM3-353-010		SPR-T,HEAD 2
9	82-ZM1-224-410		LVR,FR	39	82-ZM1-207-910		GUIDE,TAPE
10	82-ZM3-333-310		SLIP DISK ASSY 2	40	82-ZM1-314-110		PLATE,HEAD
11	82-ZM1-223-010		GEAR,PLAY	41	82-ZM1-208-310		HLDR,HEAD
12	82-ZM1-220-210		GEAR,IDLER	42	87-A91-195-110		HEAD,RPH KC9142 FPC
13	82-ZM3-616-010		RING MAGNET 4	43	82-ZM1-210-110		GEAR,H T
14	82-ZM1-227-310		LVR,TRIG	44	82-ZM1-222-310		LVR,PLAY(*)
15	82-ZM1-305-210		SPR-E,TRIG 2	45	82-ZM1-362-010		LEVER,ASSY PINCH RD
16	82-ZM1-255-310		SPR-E,LVR DIR	46	86-ZM1-220-010		FELT,DIA 5.3-14-0.8
17	82-ZM1-322-010		SPR-T,FR 60	47	82-ZM1-219-010		CLR,REEL SLIP
18	82-ZM1-358-110		CHAS ASSY,FPC	A	87-251-070-410		U+2.6-3
19	82-ZM3-628-010		SOL ASSY,23 SO	B	87-741-073-410		UT2+2.6-6 GLD
20	82-ZM1-363-010		LEVER,ASSY PINCH LD	C	87-B10-008-010		W-P,2.08-8-0.4-SLIP
21	82-ZM1-258-210		SPR-T,PINCH L	D	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
22	82-ZM1-333-210		PLATE,LINK2	E	82-ZM3-334-010		PW 2.16-6-0.4
23	86-ZM1-203-010		CAP.REEL	F	86-ZM4-206-110		S-SCREW,AZIMUTH L
24	82-ZM1-266-310		LVR,DIR	G	85-ZM3-202-010		S-SCREW,TG
25	82-ZM1-214-010		SPR-T,DIR	H	82-ZM3-222-010		S-SCREW,SHILD PLATE
26	82-ZM1-269-210		SPR-T,BRG	I	80-ZM6-207-010		V+1.6-7
27	86-ZM1-202-010		SHAFT,REEL				
28	82-ZM1-206-910		CHAS,HEAD				
29	82-ZM1-219-110		SPR-T,LINK				
30	82-ZM1-218-010		SPR-E,HB				

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

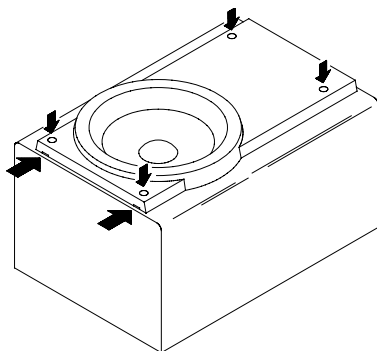
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



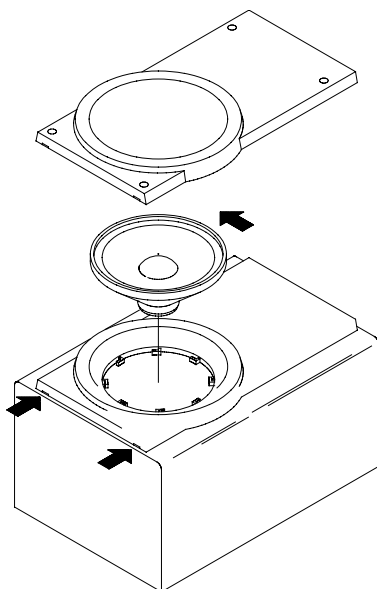
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

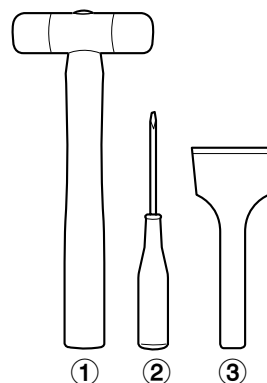


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

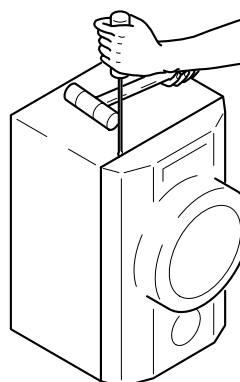


Fig-1

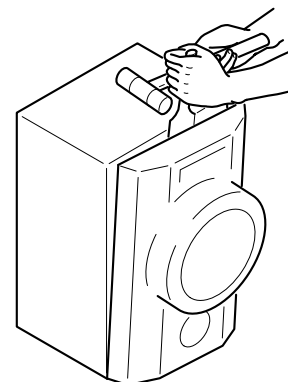


Fig-2

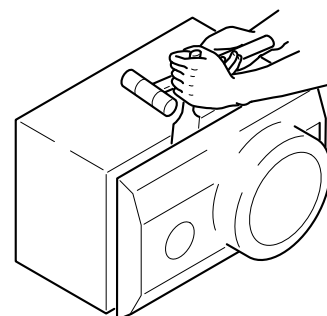


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST <SX-G3 (YLSL,YUSL,Y1SL), SX-G4 (YSL)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSZ-001-010		PANEL, FR
2	8B-NSZ-002-010		PANEL, SP
3	8B-NSZ-003-010		PANEL, BA
4	8B-NSZ-004-010		PROTECTOR, SP<EXCEPT YSL>
4	8B-NSZ-009-010		PROTECTOR, SP G<YSL>
5	8B-NSZ-602-010		SPKR, W 140 30/4<YLSL>
5	8B-NSZ-604-010		SPKR, W 140 25/4<EXCEPT YLSL>
6	8B-NSK-604-010		SPKR, T 60<YLSL, YUSL>
6	8B-NSK-610-010		SPKR, T 60 L<Y1SL, YSL>
7	87-NS7-611-010		CORD, SPKR
8	8B-NSZ-012-010		RING, W
9	8B-NSZ-010-010		PANEL, DUCT GR<Y1SL>
9	8B-NSZ-011-010		PANEL, DUCT BL<EXCEPT Y1SL>
10	8B-NSZ-013-010		PANEL, DUCT B

SPEAKER PARTS LIST (SX-G5) <YML>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSS-003-010		GRILLE, FRAME ASSY
2	8A-NST-614-010		TERMINAL
3	8B-NSS-602-010		SPKR, W 140 25/2
4	8B-NSS-604-010		SPKR, TW ASSY
5	8B-NSS-007-010		SPKR, TW
6	8B-NSS-008-010		RING, TW
7	8B-NSS-002-010		RING, W

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF8-903-010		IB, U (ESF) M<U>
1	8B-NF8-902-010		IB, LH (ESP) M<LH>
1	8B-NF8-905-010		IB, K (E) M G3/5/6<K>
1	8B-NF8-906-010		IB, EZ (9L) M G3<3EZ>
1	8B-NF8-916-010		IB, EZ (9L) M G4/G4/G6-RDS<4EZ, 5EZ>
2	8B-NF8-701-010		RC UNIT, RC-BAS03<3EZ, K>
2	8B-NF8-706-010		RC UNIT, RC-BAS11<U, LH, 4EZ, 5EZ>
3	87-006-225-010		AM LOOP ANT NC2
4	87-043-115-010		ANT, FEEDER FM<U, LH>
4	87-A90-118-010		ANT, WIR FM (Z) <EZ, K>
	5	87-A91-017-010	PLUG CONVERSION JT-0476<LH>
	6	87-099-811-010	PLUG, ADPTR CONV (K) <K>

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