



NSX-AJ300

U

NSX-AJ305

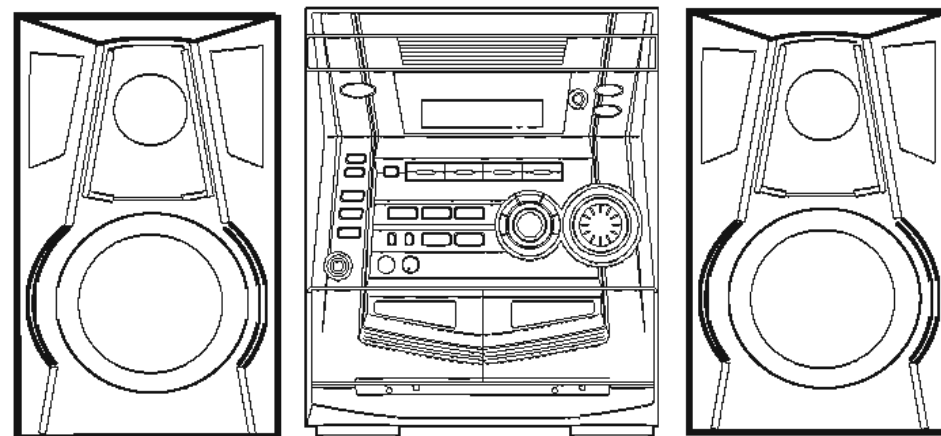
U

NSX-SZ300

LH,EZ

NSX-SZ305

EZ



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-3 PR1NM
BASIC CD MECHANISM : BZG-5 ZD3NM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AJ300<U>	CX-NAJ300	SX-NAJ302	RC-ZAS02
NSX-AJ305<U>	CX-NAJ305	SX-NAJ302 SX-R145	
NSX-SZ300 <LH,EZ>	CX-NSZ300	SX-NSZ302	
NSX-SZ305<EZ>	CX-NSZ305		

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" of NSX-AJ300<U>/SZ300<LH,EZ>/AJ305<U>, (S/M Code No. 09-011-440-5T1) and NSX-SZ305<EZ>, (S/M Code No. 09-012-440-5T2).
- 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. 09-012-440-5R1

REVISION

DATA

SPECIFICATIONS

Main unit CX-NAJ300/CX-NSZ300/CX-NAJ305/CX-NSZ305

<FM tuner section>	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	U, LH: 13.2 dBf EZ: 16.8 dBf
Antenna terminals	75 ohms (unbalanced)
<AM/MW tuner section>	
Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna
<LW tuner section><EZ>	
Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna
<Amplifier section>	
Power output	Rated U: 60 W + 60 W (50 Hz – 20 kHz, THD less than 1%, 6 ohms) LH: 62 W + 62 W (1 kHz, THD 1%, 6 ohms) EZ: 32 W + 32 W (6 ohms, THD 1%, 1 kHz/DIN 45500) Reference U: 75 W + 75 W (1 kHz, THD less than 10%, 6 ohms) LH: 80 W + 80 W (1 kHz, THD 10%, 6 ohms) EZ: 40 W + 40 W (6 ohms, THD 10%, 1 kHz/DIN 45324) EZ: DIN MUSIC POWER: 120 W + 120 W
Total harmonic distortion	U: 0.08 % (30 W, 1 kHz, 6 ohms, DIN AUDIO) LH: 0.08 % (40 W, 1 kHz, 6 ohms, DIN AUDIO) EZ: 0.08 % (20 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 500 mV
Outputs	SPEAKERS: 6 ohms or more SURROUND SPEAKERS <305U> 8 ohms to 16 ohms PHONES: 32 ohms or more
<Cassette deck section>	
Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15 kHz
Recording system	AC bias
Heads	Deck 1: Playback x 1 Deck 2: 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)

<General>

Power requirements	U: 120 V AC, 60 Hz LH: 120 V/220-230 V/240 V AC (switchable), 50/60 Hz EZ: 230 V AC, 50 Hz
Power consumption	300U: 70 W 305U: 85 W LH: 90 W EZ: 75 W
Power consumption in standby mode	With ECO mode on: 0.6 W With ECO mode off: U: 20 W LH: 19 W EZ: 17 W
Dimensions of main unit (W x H x D)	260 x 324 x 351 mm (10 ¹ / ₄ x 12 ⁷ / ₈ x 13 ⁷ / ₈ in.)
Weight of main unit	300U: 6.4 kg (14 lbs 2 oz.) 305U: 6.5 kg (14 lbs 5 oz.) LH: 6.9 kg EZ: 5.8 kg

Front Speakers SX-NAJ302/SX-NSZ302

<U: SX-NAJ302>	
<LH, EZ: SX-NSZ302>	
Speaker system	3 way, bass reflex (magnetic shielded type)
Speaker units	Woofer: 160 mm (6 ³ / ₈ in.) cone Tweeter: 60 mm (2 ³ / ₈ in.) cone Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	230 x 324 x 235 mm (9 ¹ / ₈ x 12 ⁷ / ₈ x 9 ³ / ₈ in.)
Weight	U: 3.5 kg (7 lbs 11 oz.) LH: 4.5 kg EZ: 4.3 kg

Surround Speakers SX-R145 (NSX-AJ305 only)

Speaker system	1 way, bass reflex
Speaker units	Full range: 80 mm (3 ¹ / ₄ in.) cone
Impedance	8 ohms
Dimensions (W x H x D)	100 x 132 x 116 mm (4 x 5 ¹ / ₄ x 4 ⁵ / ₈ in.)
Weight	0.5 kg (1 lbs 2 oz.)

• 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

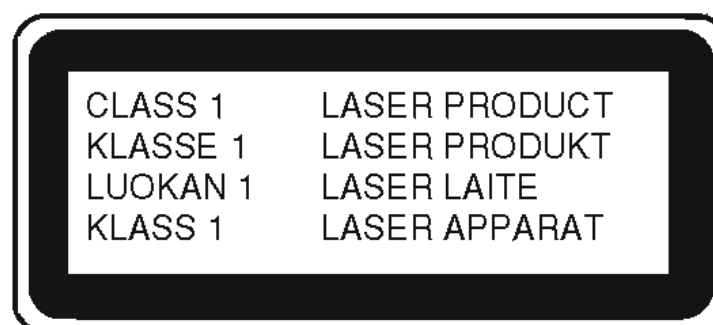
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

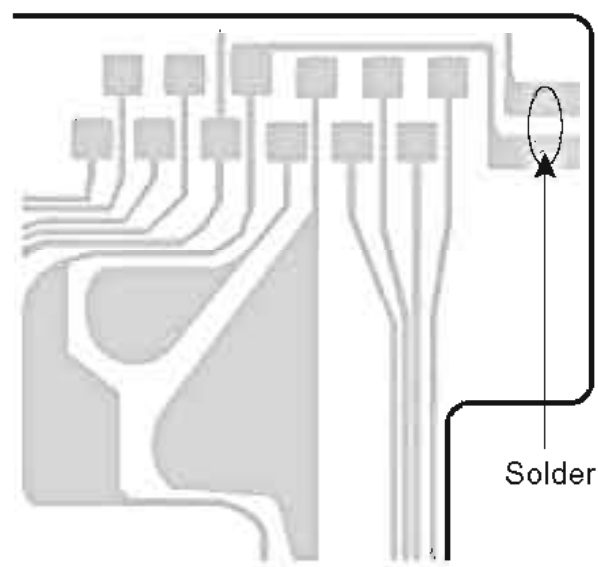


Precaution to replace Optical block (KSS-213F)

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 the right figure.

(KSS - 213F)
PICKUP Assy PWB



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 capacitor (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 oscilloscope.

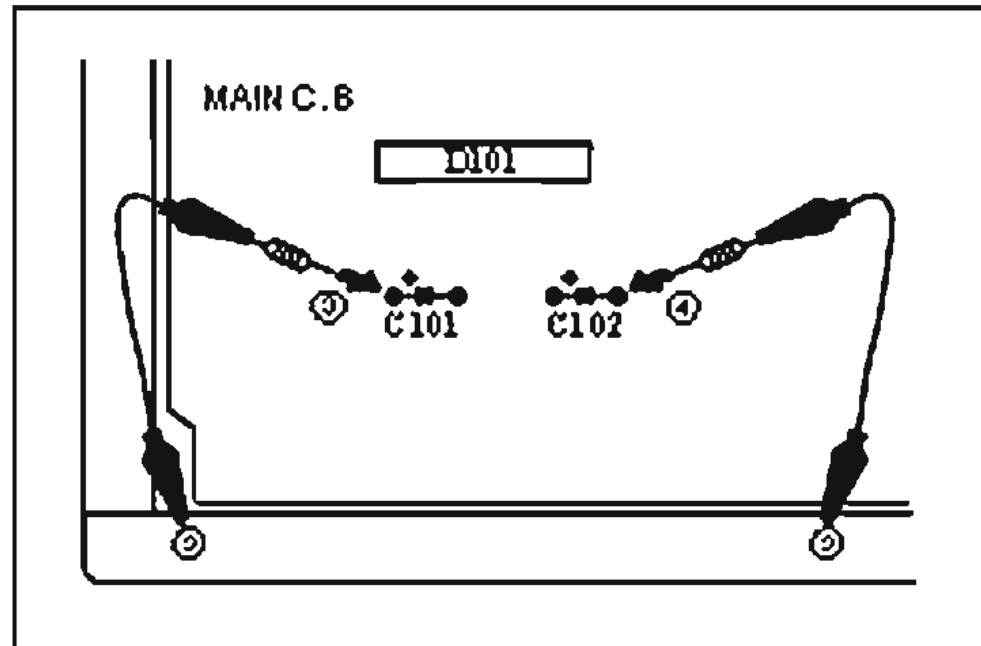


Fig-1

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

NOTE: The reference number (C101, C102) of the electrolytic capacitor can change depending on the model. Be sure to check the reference number of the charging capacitor 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 really 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 trigger the abnormality detection circuit on the MAIN C.B. that set 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.

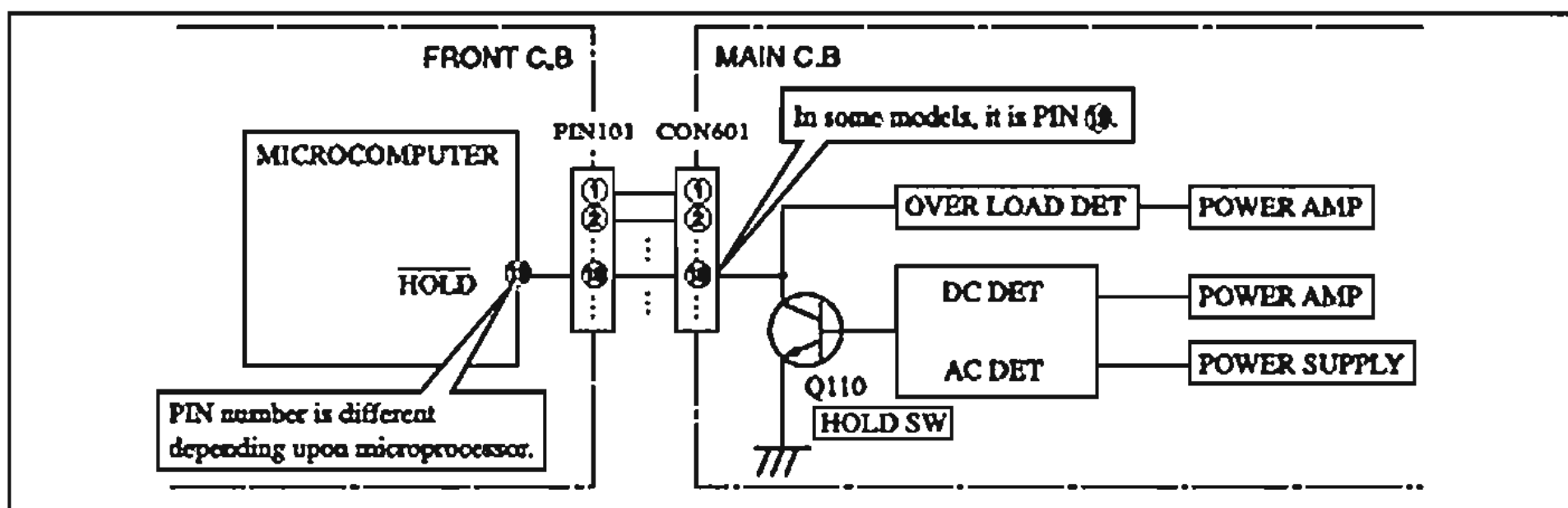


Fig-2-1

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.

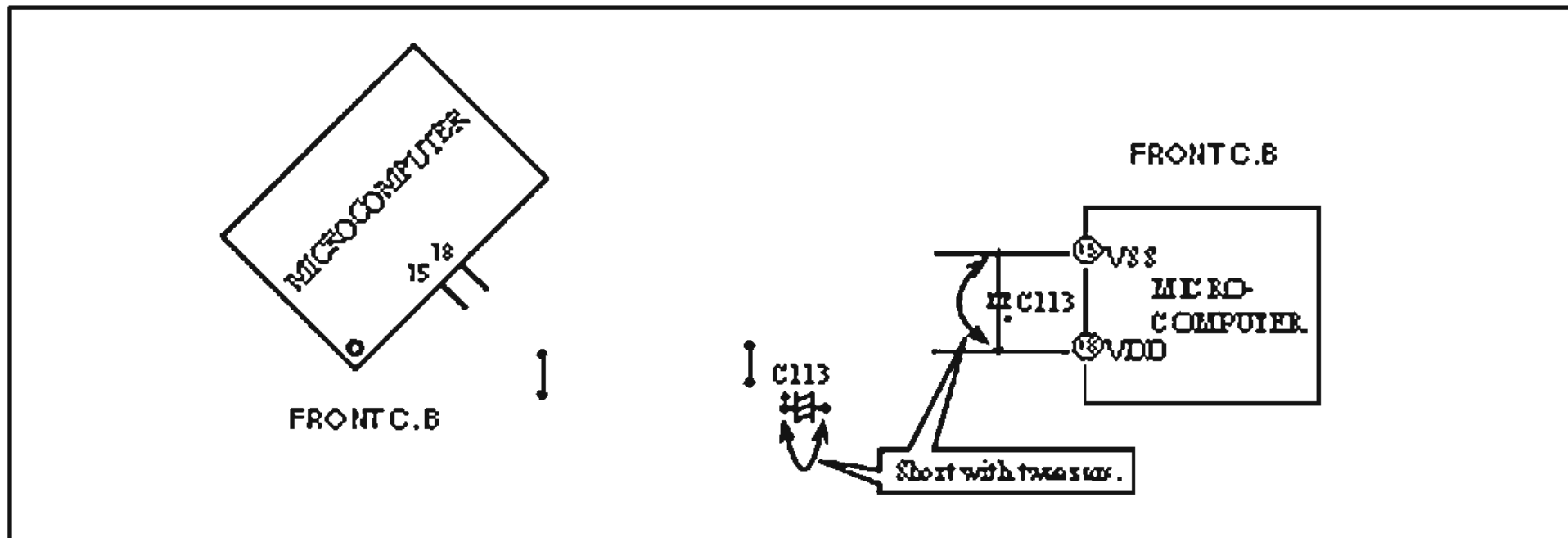


Fig-2-2

- 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 model. 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 procedure. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C19	87-A12-036-000		CAP, E 2200-63 M SMG<U,LH>
	87-A21-419-040		C-IC,NJM14558MD-TE2	C19	87-A12-776-090		CAP, E 2200-50 M 85 SKR<EZ>
	87-A21-893-040		C-IC,NJM14558V-TE2	C20	87-A12-036-000		CAP, E 2200-63 M SMG<U,LH>
	87-A21-695-010		IC,LA1845L	C20	87-A12-776-090		CAP, E 2200-50 M 85 SKR<EZ>
	87-070-127-110		IC,LC72131D	C21	87-A12-777-090		CAP, E 3300-25 M 85 SKR
	87-A20-440-040		C-IC,BU1920FS<305EZ>	C22	87-A12-777-090		CAP, E 3300-25 M 85 SKR
	87-A21-218-110		IC,NJL64H380A	C25	87-A12-072-080		CAP, E 100-25 SMG
	87-A21-401-040		C-IC,M61503FP	C26	87-A12-072-080		CAP, E 100-25 SMG
	8B-NF9-602-030		C-IC,UPD780228GF-078-3BA<305EZ>	C27	87-A12-072-080		CAP, E 100-25 SMG
	8B-NF9-601-030		C-IC,UPD780226GF-021-3BA<U,LH,300EZ>	C28	87-A12-072-080		CAP, E 100-25 SMG
	87-A21-269-010		IC,EW732	C30	87-A12-095-080		CAP, E 100-50 SMG
				C31	87-A12-062-080		CAP,E 100-10 SMG
				C32	87-012-286-080		C-CAP, U 0.01-25
TRANSISTOR				C33	87-A12-062-080		CAP,E 100-10 SMG<U>
	87-A30-559-010		TR,CSB1370EF	C34	87-A12-072-080		CAP, E 100-25 SMG
	87-A30-492-080		TR,2SC5343G	C35	87-A12-071-080		CAP, E 47-25 SMG
	87-A30-076-080		C-TR,2SC3052F	C36	87-A12-067-080		CAP, E 330-16 SMG
	87-A30-075-080		C-TR,2SA1235F	C38	87-012-286-080		C-CAP, U 0.01-25
	87-A30-107-070		C-TR,CMBT5401	C60	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A30-484-080		C-TR,KRA102S	C61	87-A12-071-080		CAP,E 47-25 SMG
	87-026-610-080		TR,KTC3198GR	C83	87-A12-074-080		CAP, E 470-25 SMG<U,LH>
	87-A30-190-080		TR,CC5551	C83	87-A12-068-080		CAP, E 470-16 SMG<EZ>
	87-A30-106-040		C-TR,CMBT5551	C97	87-010-831-080		C-CAP,U 0.1-16 Z F
	87-A30-162-010		FET,2SK2937	C101	87-012-279-080		C-CAP,U 2700P-50 B<U,LH>
	87-A30-091-080		FET,2SJ460	C101	87-012-278-080		C-CAP,U 2200P-50 K B<EZ>
	87-A30-090-080		FET,2SK2541	C102	87-012-279-080		C-CAP,U 2700P-50 B<U,LH>
	87-A30-062-080		C-TR,KRC104S	C102	87-012-278-080		C-CAP,U 2200P-50 K B<EZ>
	87-A30-495-080		TR,2SA1981Y	C103	87-A12-084-080		CAP,E 0.022-50 SMG
	87-A30-234-080		TR,CSC4115BC	C104	87-A12-084-080		CAP,E 0.022-50 SMG
	89-327-143-080		C-TR,2SC2714 (O)	C105	87-012-277-080		C-CAP,U 1800P-50 K B GRM
	87-A30-489-080		C-TR,KRA107S	C106	87-012-277-080		C-CAP,U 1800P-50 K B GRM
	89-503-602-080		C-FET,2SK360E	C107	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A30-086-040		C-TR,CSD1306E	C108	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A30-494-080		TR,2SA1980G	C109	87-012-195-080		C-CAP,U 100P-50 CH<EZ>
	87-A30-528-010		TR,2SB1686	C110	87-012-195-080		C-CAP,U 100P-50 CH<EZ>
	87-A30-529-010		TR,2SD2642	C111	87-A12-077-080		CAP,E 33-35 SMG
	87-A30-087-080		C-FET,2SK2158	C112	87-A12-077-080		CAP,E 33-35 SMG
	87-A30-074-080		C-TR,RT1P141C	C113	87-012-195-080		C-CAP,U 100P-50 CH<U,EZ>
	87-A30-582-080		TR,CDA1585BC	C113	87-A10-596-080		C-CAP,S 100P-100 J CH<LH>
	87-A30-468-080		C-TR,KRC102S-RTK	C114	87-012-195-080		C-CAP,U 100P-50 CH<U,EZ>
	87-026-213-080		C-TR,DTC114YK<U,LH,300EZ>	C114	87-A10-596-080		C-CAP,S 100P-100 J CH<LH>
	87-A30-288-040		C-TR,DTC114YKA<305EZ>	C117	87-A12-368-080		C-CAP,S 0.1-50 Z F
DIODE				C118	87-A12-368-080		C-CAP,S 0.1-50 Z F
	87-A40-393-090		DIODE,1N5402GW(F20)	C119	87-012-286-080		C-CAP,U 0.01-25
	87-A40-553-080		DIODE,1N4003 LBS	C120	87-012-286-080		C-CAP,U 0.01-25
	87-A40-776-080		ZENER,UZ27BSD	C123	87-010-177-080		C-CAP,S 820P-25 J SL C2012
	87-A40-764-080		ZENER,UZ10BSC	C124	87-010-177-080		C-CAP,S 820P-25 J SL C2012
	87-A40-270-080		C-DIODE,MC2838	C133	87-012-282-080		C-CAP,U 4700P-50
	87-A40-269-080		C-DIODE,MC2836	C140	87-012-278-080		C-CAP,U 2200P-50
	87-A40-291-080		DIODE,1N4148M(CPT)	C186	87-010-759-080		C-CAP,U, 0.1-25F
	87-A40-749-080		ZENER,UZ5.6BSB	C187	87-010-866-080		CAP,E 10-63 M VX<U,LH>
	87-017-149-080		ZENER,HZS6A2L	C187	87-A12-091-080		CAP,E 10-50 SMG<EZ>
	87-A40-454-090		DIODE,1N5393 GW 12.5	C188	87-010-866-080		CAP,E 10-63 M VX<U,LH>
	87-A40-747-080		ZENER,UZ5.1BSB	C188	87-A12-091-080		CAP,E 10-50 SMG<EZ>
	87-A40-739-080		ZENER,UZ2.7BSA	C223	87-012-272-080		C-CAP,U 680P-50 B<EZ>
	87-A40-748-080		ZENER,UZ5.6BSA	C224	87-012-272-080		C-CAP,U 680P-50 B<EZ>
	87-A40-455-090		DIODE,RL203GW<U,LH>	C225	87-012-368-080		C-CAP,S 0.1-50 Z F
MAIN C.B				C226	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-012-368-080		C-CAP,S 0.1-50 Z F	C227	87-012-368-080		C-CAP,S 0.1-50 Z F
C3	87-012-368-080		C-CAP,S 0.1-50 Z F	C228	87-012-368-080		C-CAP,S 0.1-50 Z F
C4	87-012-368-080		C-CAP,S 0.1-50 Z F	C229	87-012-191-080		C-CAP,U 0.015-50 Z F GRM<EZ>
C5	87-012-368-080		C-CAP,S 0.1-50 Z F	C230	87-012-191-080		C-CAP,U 0.015-50 Z F GRM<EZ>
C6	87-012-368-080		C-CAP,S 0.1-50 Z F	C231	87-012-286-080		CAP, U 0.01-25<EZ>
C9	87-010-759-080		C-CAP,U 0.1-25 Z F	C232	87-012-286-080		CAP, U 0.01-25<EZ>
	87-010-759-080		C-CAP,U 0.1-25 Z F	C235	87-A12-094-080		CAP,E 47-50 SMG<305U>
C10	87-010-759-080		C-CAP,U 0.1-25 Z F	C236	87-A12-094-080		CAP,E 47-50 SMG<305U>
C11	87-010-759-080		C-CAP,U 0.1-25 Z F	C241	87-010-831-080		C-CAP,U 0.1-16 Z F
C12	87-010-759-080		C-CAP,U 0.1-25 Z F	C301	87-012-275-080		C-CAP,U 1200P-50 K B GRM
				C302	87-012-275-080		C-CAP,U 1200P-50 K B GRM
				C303	87-012-275-080		C-CAP,U 1200P-50 K B GRM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C304	87-012-275-080		C-CAP,U 1200P-50 K B GRM	C784	87-012-286-080		CAP, U 0.01-25
C307	87-A12-062-080		CAP,E 100-10 SMG	C785	87-012-286-080		CAP, U 0.01-25
C308	87-A12-062-080		CAP,E 100-10 SMG	C786	87-012-286-080		CAP, U 0.01-25
C309	87-012-188-080		C-CAP,U 47P-50 J CH	C788	87-012-167-080		C-CAP,U 5P-50 CH
C310	87-012-188-080		C-CAP,U 47P-50 J CH	C789	87-A12-052-080		C-CAP,S 0.033-25 J B<U,LH>
C313	87-012-284-080		CAP, U 6800P-50	C789	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ>
C314	87-012-284-080		CAP, U 6800P-50	C790	87-A12-052-080		C-CAP,S 0.033-25 J B<U,LH>
C315	87-A12-062-080		CAP,E 100-10 SMG	C790	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ>
C317	87-A12-085-080		CAP,E 0.33-50 SMG	C791	87-010-831-080		C-CAP,U,0.1-16F
C318	87-A12-085-080		CAP,E 0.33-50 SMG	C792	87-012-286-080		CAP, U 0.01-25
C326	87-010-787-080		C-CAP,U 0.022-25 K B	C793	87-A12-090-080		CAP,E 4.7-50 SMG
C327	87-010-831-080		C-CAP,U 0.1-16 Z F	C795	87-012-286-080		CAP, U 0.01-25
C350	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	C796	87-012-286-080		CAP, U 0.01-25
C360	87-A12-087-080		CAP,E 1-50 SMG	C797	87-A12-091-080		CAP,E 10-50 SMG
C399	87-A10-039-080		C-CAP, U 470P-50 J CH	C798	87-012-286-080		CAP, U 0.01-25
C401	87-A12-083-080		CAP,E 0.1-50 SMG	C799	87-A12-093-080		CAP,E 33-50 SMG<U,LH,300EZ>
C402	87-A12-083-080		CAP,E 0.1-50 SMG	C799	87-010-265-080		CAP,E 33-16 M 11L SME<305EZ>
C403	87-012-193-080		C-CAP,U 82P-50 CH	C800	87-010-829-080		CAP, U 0.047-16
C404	87-012-193-080		C-CAP,U 82P-50 CH	C801	87-A12-089-080		CAP,E 3.3-50 SMG
C405	87-012-286-080		CAP, U 0.01-25	C802	87-010-829-080		CAP, U 0.047-16
C406	87-012-286-080		CAP, U 0.01-25	C803	87-010-787-080		CAP, U 0.022-25 K B
C407	87-012-286-080		CAP, U 0.01-25	C804	87-A12-062-080		CAP,E 100-10 SMG
C408	87-012-286-080		CAP, U 0.01-25	C807	87-A12-086-080		CAP,E 0.47-50 SMG
C409	87-012-278-080		C-CAP,U 2200P-50 B	C808	87-A12-087-080		CAP,E 1-50 SMG
C410	87-012-278-080		C-CAP,U 2200P-50 B	C809	87-A12-087-080		CAP,E 1-50 SMG
C411	87-A12-091-080		CAP,E 10-50 SMG	C810	87-010-831-080		C-CAP,U,0.1-16F
C412	87-A12-091-080		CAP,E 10-50 SMG	C814	87-012-286-080		CAP, U 0.01-25
C452	87-A12-069-080		CAP,E 22-25 SMG	C815	87-A12-086-080		CAP,E 0.47-50 SMG
C453	87-012-279-080		C-CAP,U 2700P-50 B	C816	87-A12-086-080		CAP,E 0.47-50 SMG
C454	87-012-279-080		C-CAP,U 2700P-50 B	C818	87-012-276-080		C-CAP,U 1500P-50 K B<EZ>
C455	87-012-279-080		C-CAP,U 2700P-50 B	C821	87-A12-091-080		CAP,E 10-50 SMG
C456	87-012-286-080		CAP, U 0.01-25	C823	87-010-177-080		C-CAP,S 820P-50 J SL C2012<U,LH>
C457	87-A12-361-080		CAP,M 5600P-100 J CP	C823	87-012-349-080		C-CAP,S 1000P-50 J CH GRM<EZ>
C458	87-012-274-080		CHIP CAP,U 1000P-50B	C824	87-A12-090-080		CAP,E 4.7-50 SMG
C459	87-012-271-080		CAP, U 560P-50	C825	87-010-596-080		C-CAP,S 0.047-16 K R C2012
C460	87-010-831-080		C-CAP,U 0.1-16 Z F	C831	87-A12-092-080		CAP,E 22-50 SMG<EZ>
C461	87-012-158-080		C-CAP,S 390P-50 J CH GRM	C842	87-012-286-080		CAP, U 0.01-25
C462	87-012-158-080		C-CAP,S 390P-50 J CH GRM	C844	87-012-286-080		CAP, U 0.01-25
C470	87-018-127-080		CAP, CER 470P-50V	C850	87-A12-071-080		CAP,E 47-25 SMG
C605	87-012-280-080		C-CAP,U 3300P-50 K B	C851	87-012-286-080		CAP, U 0.01-25
C606	87-012-280-080		C-CAP,U 3300P-50 K B	C852	87-012-286-080		CAP, U 0.01-25
C609	87-010-785-080		C-CAP,U 0.015-25 K B GRM	C853	87-012-286-080		CAP, U 0.01-25
C610	87-010-785-080		C-CAP,U 0.015-25 K B GRM	C858	87-010-831-080		C-CAP,U 0.1-16 Z F
C611	87-A12-084-080		CAP,E 0.22-50 SMG	C859	87-010-831-080		C-CAP,U 0.1-16 Z F<EZ>
C612	87-A12-084-080		CAP,E 0.22-50 SMG	C860	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C613	87-A12-084-080		CAP,E 0.22-50 SMG	C869	87-012-286-080		C-CAP,U 0.01-25 K B<305EZ>
C614	87-A12-084-080		CAP,E 0.22-50 SMG	C870	87-012-274-080		C-CAP,U 1000P-50 K B<305EZ>
C615	87-012-172-080		CAPACITOR CHIP U 10P CH	C871	87-012-199-080		C-CAP,U 220P-50 J CH<305EZ>
C616	87-016-459-080		CAP,E 470-10 M SMG	C872	87-012-199-080		C-CAP,U 220P-50 J CH<305EZ>
C617	87-016-459-080		CAP,E 470-10 M SMG	C873	87-A10-039-080		C-CAP,U 470P-50 J CH<305EZ>
C618	87-A12-091-080		CAP,E 10-50 SMG	C874	87-A12-091-080		CAP,E 10-50 SMG<305EZ>
C620	87-010-263-080		CAP,E 100-10 M 11L SME	C875	87-010-759-080		C-CAP,U 0.1-25 Z F<305EZ>
C623	87-A12-372-080		CAP,M 0.047-100 JP	C876	87-A12-091-080		CAP,E 10-50 SMG
C624	87-A12-372-080		CAP,M 0.047-100 JP	C877	87-012-286-080		C-CAP,U 0.01-25 K B<305EZ>
C630	87-016-669-080		C-CAP,S 0.1-25 K B	C878	87-012-184-080		C-CAP,U 33P-50 J CH<305EZ>
C631	87-012-281-080		C-CAP,U 3900P-50 K B GRM	C879	87-012-180-080		C-CAP,U 22P-50 J CH<305EZ>
C632	87-012-281-080		C-CAP,U 3900P-50 K B GRM	C901	87-018-145-080		CAP,TC-U 6.8P-50 CH<U,LH>
C633	87-A11-070-080		C-CAP,U 0.033-16 K B	C904	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C634	87-A11-070-080		C-CAP,U 0.033-16 K B	C905	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C661	87-012-336-080		C-CAP,U 330P-50 J SL	C907	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C662	87-012-336-080		C-CAP,U 330P-50 J SL	C908	87-A10-915-080		C-CAP,U 1000P-25 J CH<U,LH>
C669	87-012-274-080		C-CAP,U 1000P-50 K B<EZ>	C909	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C670	87-012-274-080		C-CAP,U 1000P-50 K B<EZ>	C910	87-012-174-080		C-CAP,U 12P-50 J CH<U,LH>
C677	87-012-286-080		CAP, U 0.01-25	C911	87-012-170-080		C-CAP,U 8P-50 CH<U,LH>
C771	87-A12-062-080		CAP,E 100-10 SMG	C912	87-012-195-080		C-CAP,U 100P-50CH<U,LH>
C772	87-012-286-080		CAP, U 0.01-25	C913	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C779	87-010-949-080		C-CAP,S 0.01-50 J B<EZ>	C914	87-012-166-080		C-CAP,U 4P-50 C CH<U,LH>
C780	87-010-949-080		C-CAP,S 0.01-50 J B<EZ>	C915	87-012-174-080		C-CAP,U 12P-50 J CH<U,LH>
C782	87-012-286-080		CAP, U 0.01-25	C916	87-012-180-080		C-CAP,U 22P-50 CH<U,LH>
C783	87-012-286-080		CAP, U 0.01-25	C917	87-012-186-080		C-CAP,U 39P-50 CH<U,LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C918	87-A10-039-080		C-CAP,U 470P-50 J CH<U,LH>	L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<U,LH>
C921	87-012-195-080		C-CAP,U 100P-50CH<U,LH>	L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ>
C922	87-012-174-080		C-CAP,U 12P-50 J CH CHJ<U,LH>	L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ>
C940	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	L951	8A-NF8-667-010		COIL,AM PACK 4 (TOK) <U,LH>
C942	87-012-165-080		C-CAP,U 3P-50 C CH<EZ>	L951	8A-NF8-668-010		COIL,AM PACK 2 (TOK) <EZ>
C947	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R129	87-A00-257-080		RES,M/F 0.15-1W J<300U>
C948	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ>	R129	87-A00-258-080		RES,M/F 0.22-1W J<EZ>
C952	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R129	87-A00-262-080		RES,M/F 0.15-2W J<LH,305U>
C957	87-012-174-080		C-CAP,U 12P-50 J CH<EZ>	R130	87-A00-257-080		RES,M/F 0.15-1W J<300U>
C958	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R130	87-A00-258-080		RES,M/F 0.22-1W J<EZ>
C959	87-010-831-080		C-CAP,U,0.1-16F	R130	87-A00-262-080		RES,M/F 0.15-2W J<LH,305U>
C960	87-010-831-080		C-CAP,U,0.1-16F	R131	87-A00-257-080		RES,M/F 0.15-1W J<300U>
C961	87-012-167-080		C-CAP,U 5P-50 CH<U,LH>	R131	87-A00-258-080		RES,M/F 0.22-1W J<EZ>
C962	87-A12-087-080		CAP,E 1-50 SMG<EZ>	R131	87-A00-262-080		RES,M/F 0.15-2W J<LH,305U>
C963	87-015-785-080		CHIP CAPACITOR, 0.1-25 Z F	R132	87-A00-257-080		RES,M/F 0.15-1W J<300U>
C971	87-A12-067-080		CAP,E 330-16 SMG	R132	87-A00-258-080		RES,M/F 0.22-1W J<EZ>
C972	87-A12-090-080		CAP,E 4.7-50 SMG	R132	87-A00-262-080		RES,M/F 0.15-2W J<LH,305U>
C973	87-012-286-080		CAP, U 0.01-25	R243	87-A00-440-050		RES,220-1/2W J RP<U,LH>
C974	87-012-286-080		CAP, U 0.01-25	R243	87-A00-439-050		RES,180-1/2W J RP<300EZ>
C979	87-012-195-080		C-CAP,U 100P-50CH	R243	87-A00-999-050		RES,180-1/2W J BLT2J<305EZ>
C981	87-A12-071-080		CAP,E 47-25 SMG	R244	87-A00-440-050		RES,220-1/2W J RP<U,LH>
C982	87-010-831-080		C-CAP,U,0.1-16F	R244	87-A00-439-050		RES,180-1/2W J RP<300EZ>
C983	87-012-286-080		CAP, U 0.01-25 K B	R244	87-A00-999-050		RES,180-1/2W J BLT2J<305EZ>
C984	87-012-286-080		CAP, U 0.01-25 K B	R245	87-A00-440-050		RES,220-1/2W J RP<U>
C985	87-012-195-080		C-CAP,U 100P-50 J CH<EZ>	R245	87-A00-441-050		RES,270-1/2W J RP<LH>
C987	87-012-286-080		CAP, U 0.01-25 K B	R245	87-A00-439-050		RES,180-1/2W J RP<300EZ>
C989	87-012-286-080		C-CAP, U 0.01-25 K B<EZ>	R245	87-A00-999-050		RES,180-1/2W J BLT2J<305EZ>
C991	87-012-176-080		C-CAP,U 15P-50 J CH	R246	87-A00-440-050		RES,220-1/2W J RP<U>
C992	87-012-176-080		C-CAP,U 15P-50 J CH	R246	87-A00-441-050		RES,270-1/2W J RP<LH>
C993	87-012-274-080		CHIP CAP,U 1000P-50B	R246	87-A00-439-050		RES,180-1/2W J RP<300EZ>
C995	87-012-274-080		CHIP CAP,U 1000P-50B	R246	87-A00-999-050		RES,180-1/2W J BLT2J<305EZ>
C997	87-010-831-080		C-CAP,U,0.1-16F	R790	87-012-286-080		CAP, U 0.01-25
C998	87-A12-071-080		CAP,E 47-25 SMG	R991	87-012-195-080		C-CAP,U 100P-50CH
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	R993	87-012-195-080		C-CAP,U 100P-50CH
CF831	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>	R995	87-012-195-080		C-CAP,U 100P-50CH
CF831	87-008-423-010		FILTER, CF SFE10.7MS3G-A<EZ>	SFR451	87-024-435-080		SFR,33K H RH063MC
CF832	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>	SFR452	87-024-435-080		SFR,33K H RH063MC
CF832	82-785-747-010		CF,MS2 GHY,R<EZ>	TC942	87-A91-774-080		TRIMMER, PLY 30P 6.8X5.4 CDYL<EZ>
CN301	87-A60-620-010		CONN,3P V 2MM JMT	TH101	87-A91-042-080		C-THMS,100K 55001
CN351	87-A60-625-010		CONN,8P V 2MM JMT	TH102	87-A91-042-080		C-THMS,100K 55001
CN601	87-099-719-010		CONN,30P TYK-B(X)	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
CN602	87-A60-131-010		CONN,6P V FE	W99	8A-NF9-609-010		F-CABLE,9P 2.5 480MM<U,EZ>
CNA001	8A-NF8-653-010		CONN ASSY,9P TID-A(480) <LH>	X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST<305EZ>
D902	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
D903	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>				
FC602	88-906-251-110		FF-CABLE, 6P 1.25				FRONT C.B
FFE831	A8-6ZA-19H-030		6ZA-1 FEMENM<EZ>				
J201	87-A61-480-010		JACK,DIA 6.3BLK ST W/SW<U,LH,300EZ>	C108	87-010-785-080		C-CAP,U 0.015-25 K B GRM
J201	87-A60-488-010		JACK,DIA 6.3BLK ST W/SW<305EZ>	C153	87-010-787-080		C-CAP,U 0.022-25 K B
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)	C154	87-A12-078-040		CAP,E 47-35 SMG
J205	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN<305U>	C155	87-010-404-040		CAP,E 4.7-50 M 11L SME
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C156	87-010-404-040		CAP,E 4.7-50 M 11L SME
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<U,LH>	C301	87-012-278-080		C-CAP,U 2200P-50 K B
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05<EZ>	C351	87-A10-353-080		C-CAP,U 0.22-10 K B
JR123	87-012-195-080		C-CAP,U 100P-50 J CH<U,EZ>	C361	87-012-274-080		C-CAP,U 1000P-50 K B
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH<LH>	C362	87-012-274-080		C-CAP,U 1000P-50 K B
JR124	87-012-195-080		C-CAP,U 100P-50 J CH<U,EZ>	C371	87-012-274-080		C-CAP,U 1000P-50 K B
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH<LH>				
L201	87-A50-610-010		COIL,1UH K(MDEC)	C372	87-012-274-080		C-CAP,U 1000P-50 K B
L202	87-A50-610-010		COIL,1UH K(MDEC)	C601	87-010-382-040		CAP,E 22-25 SME
L451	87-007-342-010		COIL,OSC 85KHZ BIAS	C801	87-A10-804-080		C-CAP,S 0.1-25 J B
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C802	87-010-316-080		C-CAP,S 33P-50 J CH GRM
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	C803	87-012-280-080		C-CAP,U 3300P-50 K B
L811	87-005-847-080		COIL,2.2UH CECS	C804	87-A10-592-080		C-CAP,S 0.015-50 J B
L832	87-005-847-080		COIL,2.2UH CECS	C805	87-012-184-080		C-CAP,U 33P-50 J CH
L861	87-005-847-080		COIL,2.2UH K CECS<305EZ>	C806	87-012-274-080		C-CAP,U 1000P-50 K B
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<U,LH>	C807	87-012-274-080		C-CAP,U 1000P-50 K B
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<U,LH>	C808	87-010-544-040		CAP,E 0.1-50 M 11L SME
L904	87-005-847-080		COIL,2.2UH(CECS) <U,LH>	C809	87-010-404-040		CAP,E 4.7-50 SME
L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS) <U,LH>	C810	87-012-286-080		C-CAP,U 0.01-25 K B
				C811	87-A12-052-080		C-CAP,S 0.033-25 J B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C901	87-012-195-080		C-CAP,U 100P-50 CH	S345	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>
C902	87-012-195-080		C-CAP,U 100P-50 CH	S345	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C903	87-012-195-080		C-CAP,U 100P-50 CH	S346	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>
C904	87-012-195-080		C-CAP,U 100P-50 CH	S346	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C905	87-012-195-080		C-CAP,U 100P-50 CH	S347	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>
C906	87-012-195-080		C-CAP,U 100P-50 CH	S347	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C907	87-012-195-080		C-CAP,U 100P-50 CH	S348	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>
C908	87-012-195-080		C-CAP,U 100P-50 CH	S348	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C909	87-012-195-080		C-CAP,U 100P-50 CH	S349	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>
C910	87-012-195-080		C-CAP,U 100P-50 CH	S349	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C911	87-012-274-080		C-CAP,U 1000P-50 K B	S350	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C912	87-010-831-080		C-CAP,U 0.1-16 Z F	S351	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C913	87-A10-189-040		CAP,E 220-10 M 5L	S352	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>
C914	87-A10-189-040		CAP,E 220-10 M 5L	S361	87-A92-041-010		SW,RTRY XRE012103PVB30F-24
C915	87-010-831-080		C-CAP,U 0.1-16 Z F	S371	87-A92-040-010		SW,RTRY XRE012103PVB30F-12
C916	87-010-831-080		C-CAP,U 0.1-16 Z F				
C917	87-010-831-080		C-CAP,U 0.1-16 Z F				
C919	87-012-286-080		C-CAP,U 0.01-25 K B				
C920	87-010-829-080		C-CAP,U 0.047-16 Z F				
C921	87-012-282-080		C-CAP,U 4700P-50 K B				
C951	87-012-172-080		C-CAP,U 10P-50 D CH				
C952	87-010-854-080		C-CAP,S 560P-50 J CH				
C953	87-012-349-080		C-CAP,S 1000P-50 J CH GRM				
C961	87-010-378-040		CAP,E 10-16 M 11L SME				
C962	87-012-336-080		C-CAP,U 330P-50 J SL				
C963	87-010-831-080		C-CAP,U 0.1-16 Z F				
CN104	87-A60-057-010		CONN,11P V 9604S-11C				
CN701	87-099-720-010		CONN,30P BLK TYK-B(P)				
CN731	87-099-196-010		CONN,8P V BLK 6216				
FC104	88-911-101-110		FF-CABLE,11P 1.25				
FC731	88-908-301-110		FF-CABLE,8P 1.25				
FL901	8B-NF9-605-010		FL,BJ814GNK				
L951	87-A50-655-010		COIL,CLK 4.19M (TOKO)7KLY				
LED209	87-A40-317-080		LED,SLR-342VCT31 RED				
S321	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S321	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S322	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S322	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S323	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S323	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S324	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S324	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S325	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S325	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S326	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S326	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S327	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S327	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S328	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S328	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S329	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S329	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S330	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S330	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S331	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S331	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S332	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S332	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S333	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S333	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S334	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S334	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S341	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S341	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S342	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S342	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S343	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S343	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				
S344	87-A90-095-080		SW,TACT EVQ11G04M<U,LH,300EZ>				
S344	87-A90-164-080		SW,TACT SKQONAB(N)<305EZ>				

PT C.B

C85	87-010-831-080		C-CAP,U 0.1-16 Z F<EZ>
CN1	87-A61-110-010		CONN,9P V TID-A<LH>
△ PT1	8B-NFY-610-010		PT, BNF-Y U<300U>
△ PT1	8B-NF9-612-010		PT, BNF-9 U<305U>
△ PT1	8B-NF9-615-010		PT, BNF-9 LH<LH>
△ PT1	8B-NF9-616-010		PT, BNF-9 EZ-LOW<EZ>
△ PT2	8B-NF9-663-010		PT,SUB BNF H (TAM)<LH>
△ PT81	8B-NF9-661-010		PT,SUB BNF U (TAM)<U>
△ PT81	8B-NF9-665-010		PT,SUB BNF E (TAM)<300EZ>
△ PT81	8B-MA6-675-010		PT,SUB BMA E (VRK)<305EZ>
△ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<LH>
△ RY81	87-A92-072-010		RELAY,AC DC12V HRM3H-S-1POL<U>
△ RY81	87-A91-418-010		RELAY,AC 12V G5PA-1-M<EZ>
△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
△ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>
△ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>
△ T81	87-A60-317-010		TERMINAL, 1P MSC<U,EZ>
△ T82	87-A60-317-010		TERMINAL, 1P MSC<U,EZ>
WH81	87-A90-510-010		HLDR,WIRE 2.5-9P<U,EZ>

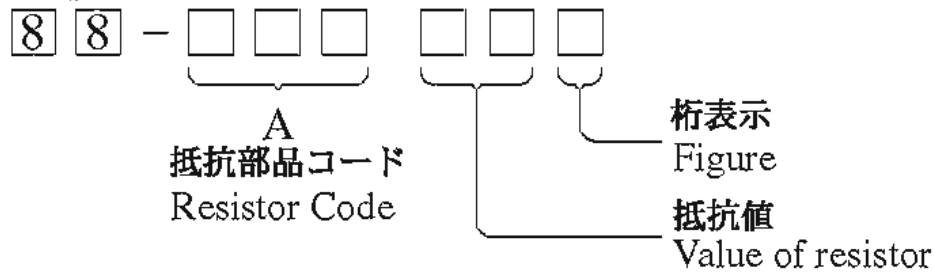
DECK C.B

CN1	87-099-753-010		CONN,11P 9604
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-673-010		SW,MICRO ESE11SH1C
SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
SW5	87-A90-673-010		SW,MICRO ESE11SH1C

○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

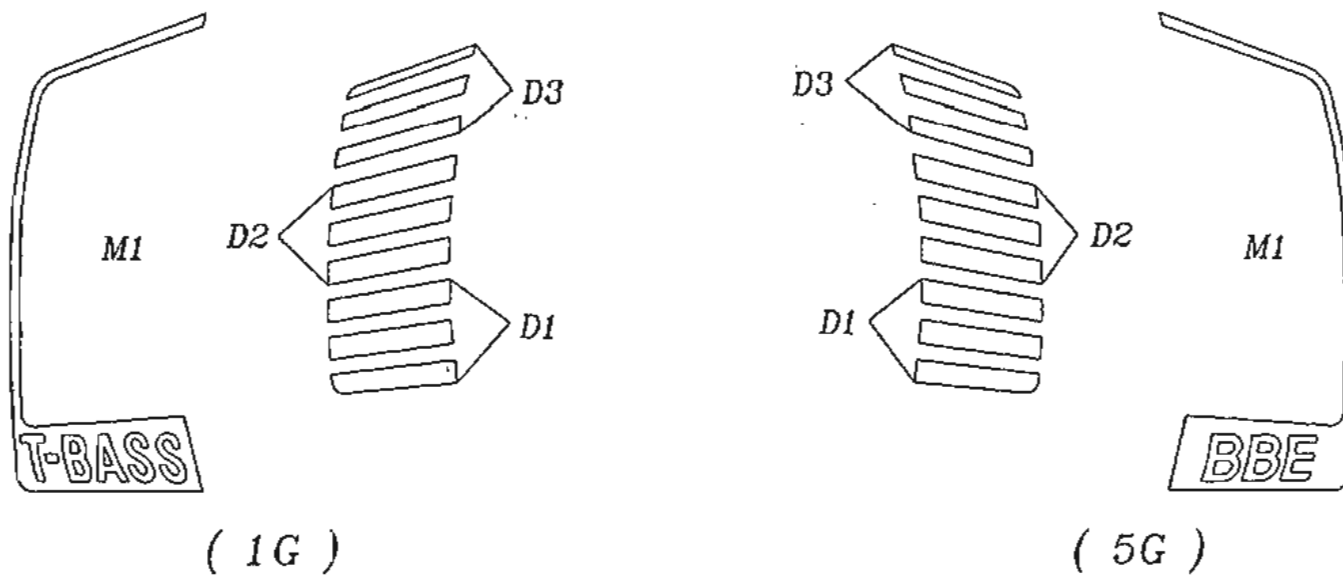
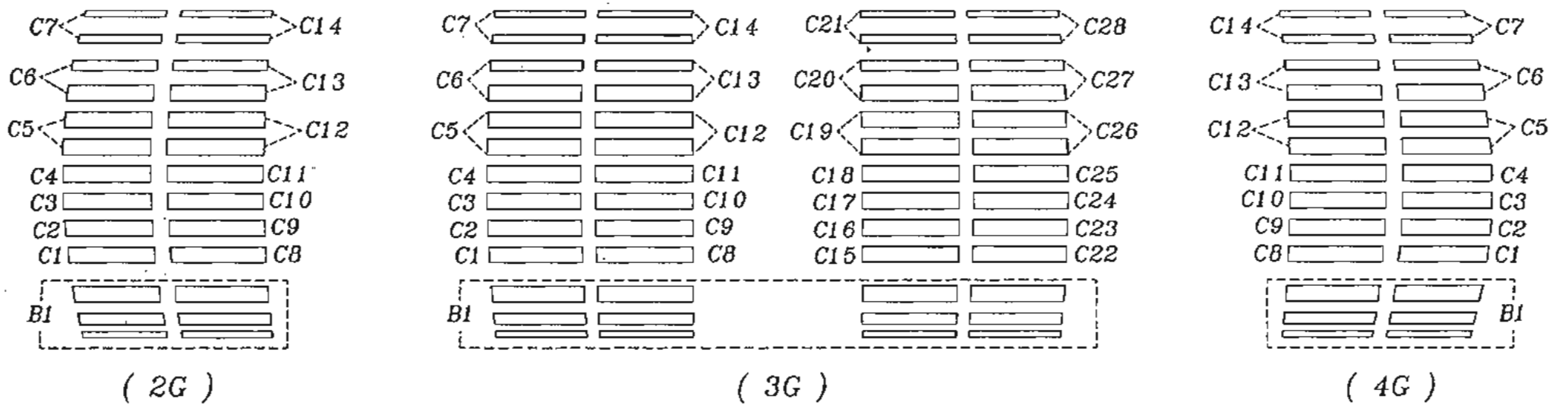
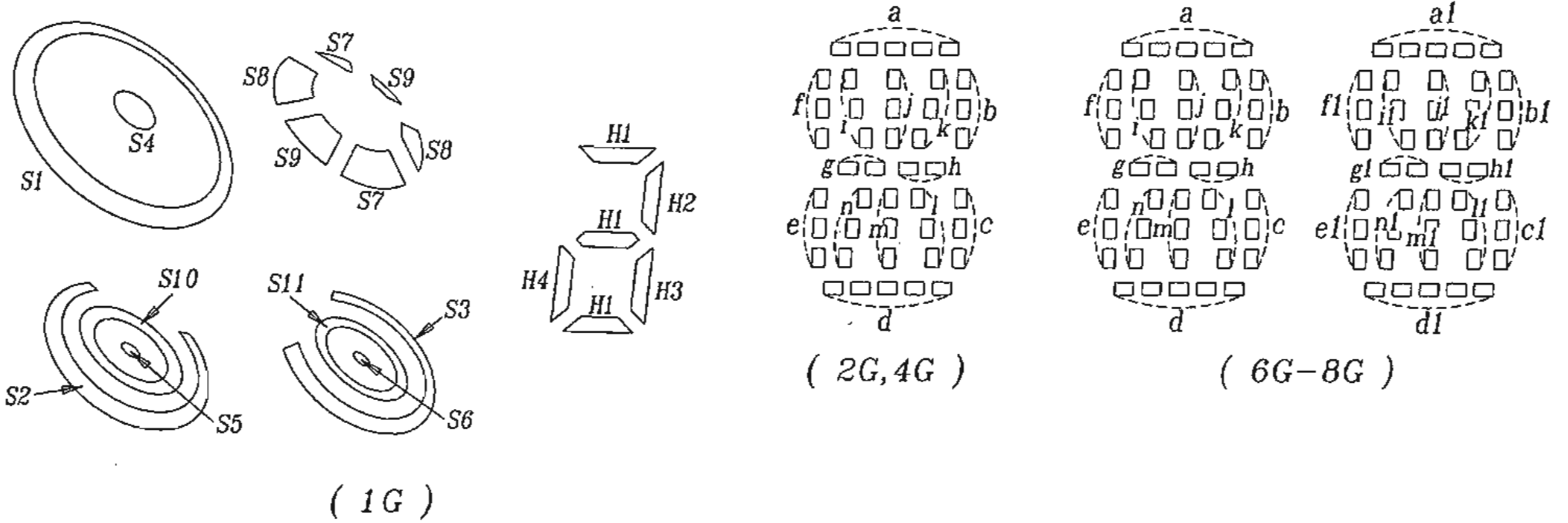
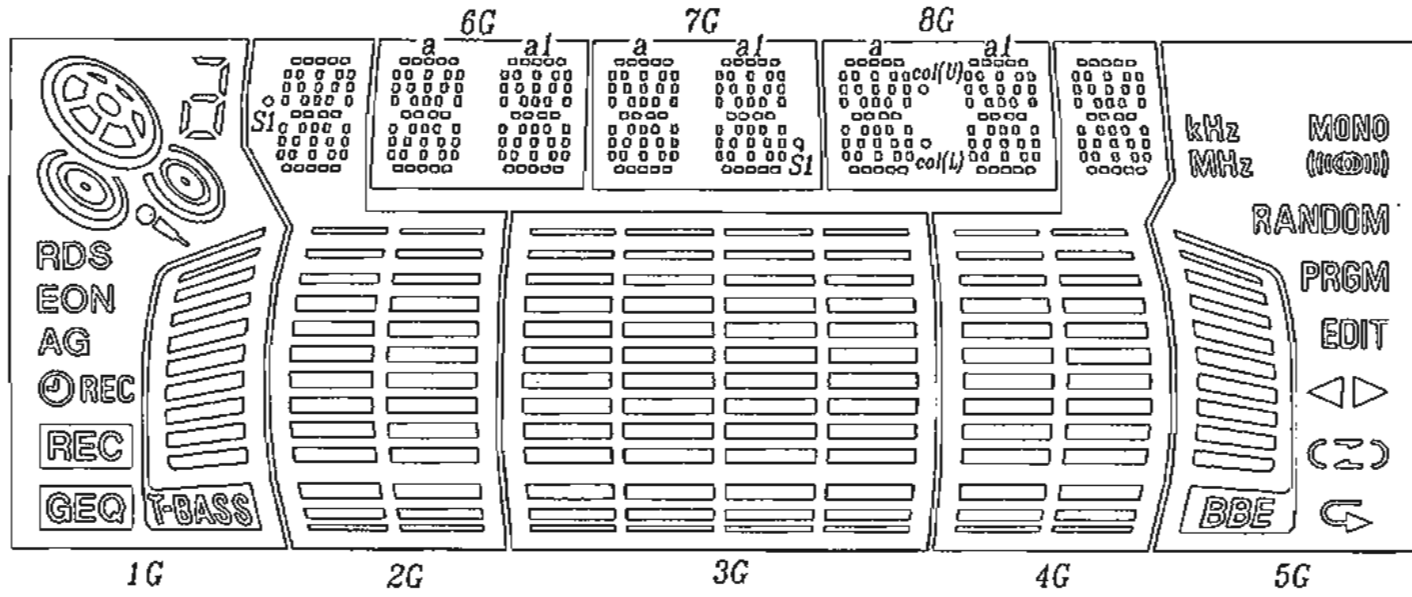
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

 E C B CDA1585BC KTC3198GR	 E C B 2SC5343G CC5551	 E B C 2SA1980G 2SA1981Y	 E C B CSC4115BC
 S D G 2SK360E	 S D G 2SJ460 2SK2541	 D G S 2SK2158	 C B E 2SA1235F DTC114YKA 2SC2714(O) KRA102S 2SC3052F KRC102S-RTK CMBT5401 KRC104S CMBT5551 KRA107S CSD1306E RT1P141C DTC114YK
 B C E 2SB1686 2SD2642	 G D S 2SK2937	 B C E CSB1370EF	

FL (BJ814GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

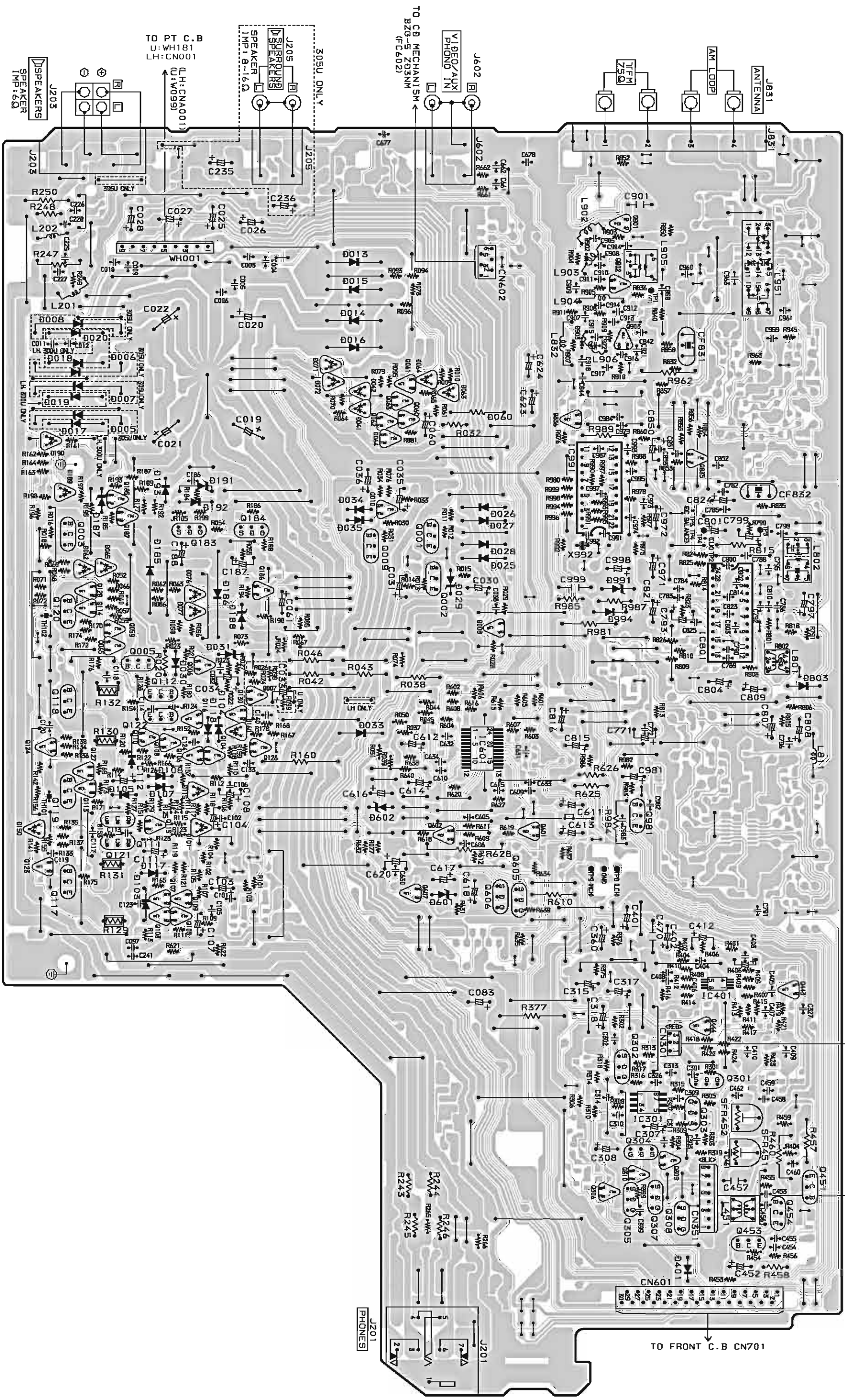


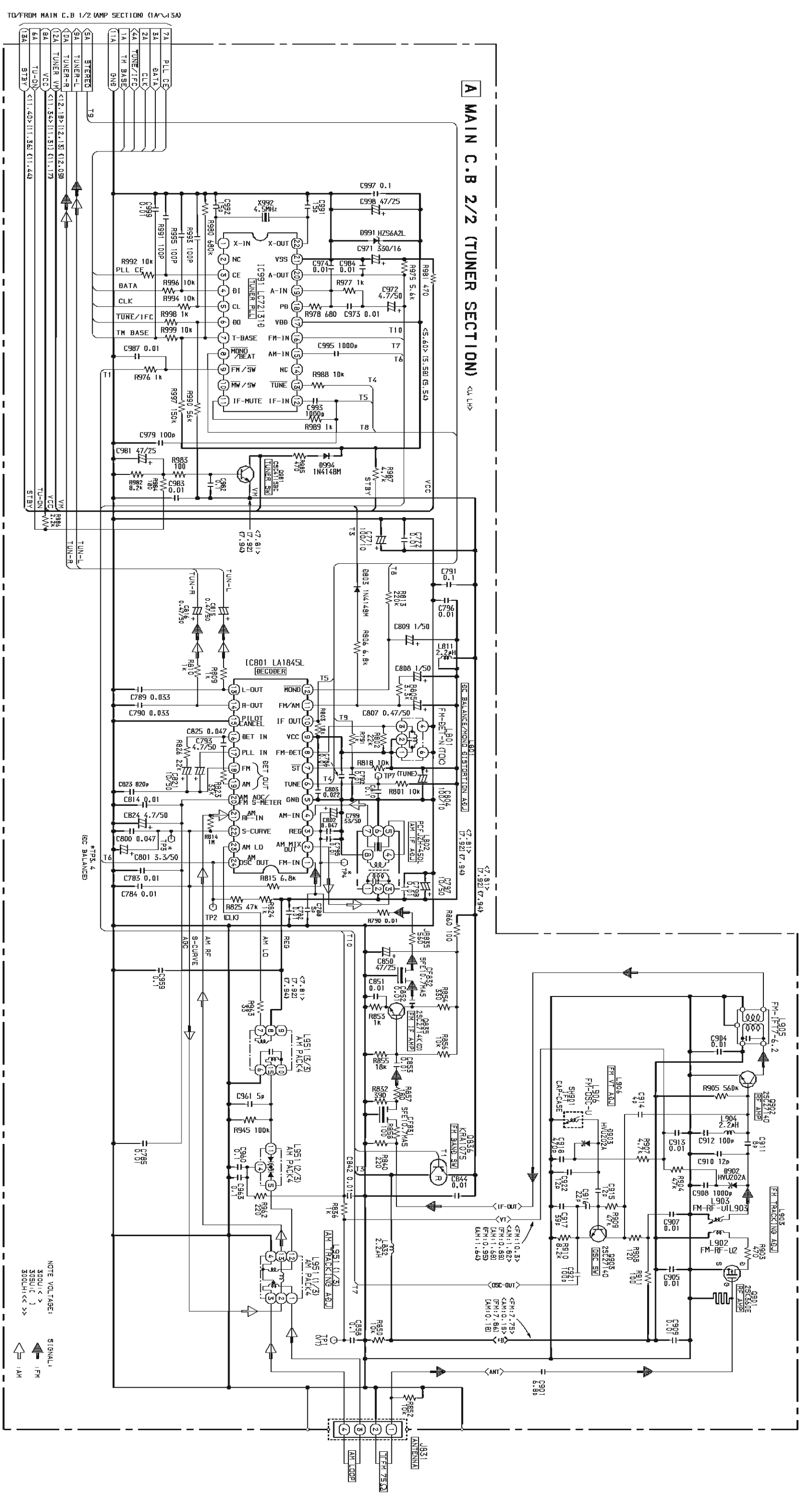
ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G
P1		C1	C1	C1	—	a	a	a
P2	M1	C2	C2	C2	M1	i	i	i
P3	D1	C3	C3	C3	D1	j	j	j
P4	D2	C4	C4	C4	D2	k	k	k
P5	D3	C5	C5	C5	D3	b	b	b
P6	AG	C6	C6	C6	Ⓒ	f	f	f
P7	EON	C7	C7	C7	Σ	h	h	h
P8	RDS	C8	C8	C8	∩	g	g	g
P9		C9	C9	C9	△	c	c	c
P10	REC	C10	C10	C10	▷	e	e	e
P11		C11	C11	C11	—	n	n	n
P12		C12	C12	C12	EDIT	m	m	m
P13	S1	C13	C13	C13	PRGM	l	l	l
P14	S2	C14	C14	C14	RANDOM	d	đ	d
P15	S3	B1	C15	B1	MONO	a1	a1	a1

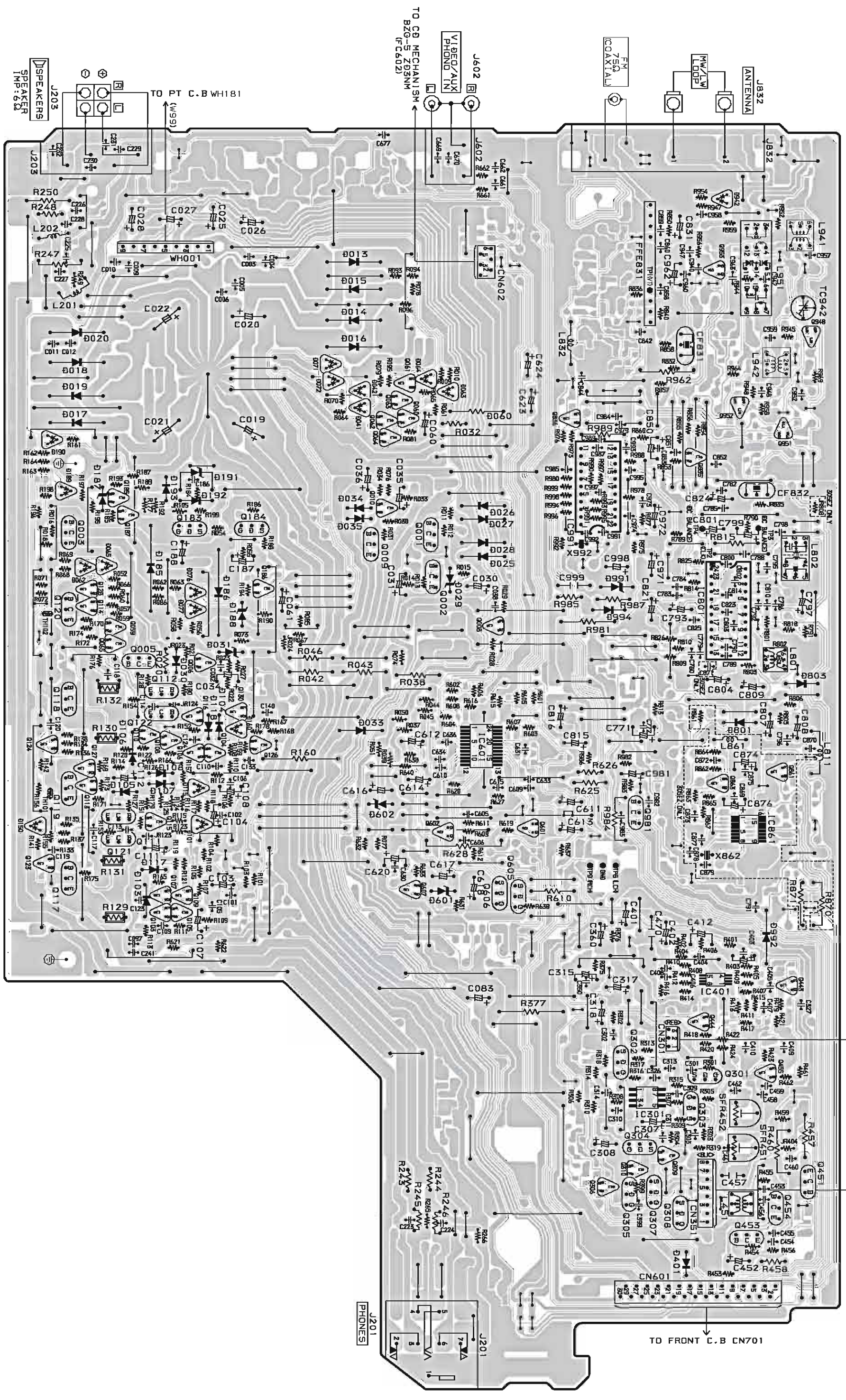
	1G	2G	3G	4G	5G	6G	7G	8G
P16	S4	a	C16	a		il	il	il
P17	S5	i	C17	i	—	jl	jl	jl
P18	S6	j	C18	j	MHz	k1	k1	k1
P19	S7	k	C19	k	kHz	b1	b1	b1
P20	S8	b	C20	b		fl	fl	fl
P21	S9	f	C21	f	—	hl	hl	hl
P22	S10	h	C22	h	—	gl	gl	gl
P23	S11	g	C23	g	—	cl	cl	cl
P24	H1	c	C24	c	—	el	el	el
P25	H2	e	C25	e	—	nl	nl	nl
P26	H3	n	C26	n	—	ml	ml	ml
P27	H4	m	C27	m	—	ll	ll	ll
P28	—	l	C28	l	—	d1	d1	d1
P29	—	d	B1	d	—	—	S1	col(U)
P30	—	S1	—	—	—	—	—	col(L)

A MAIN C.B <U, LH>

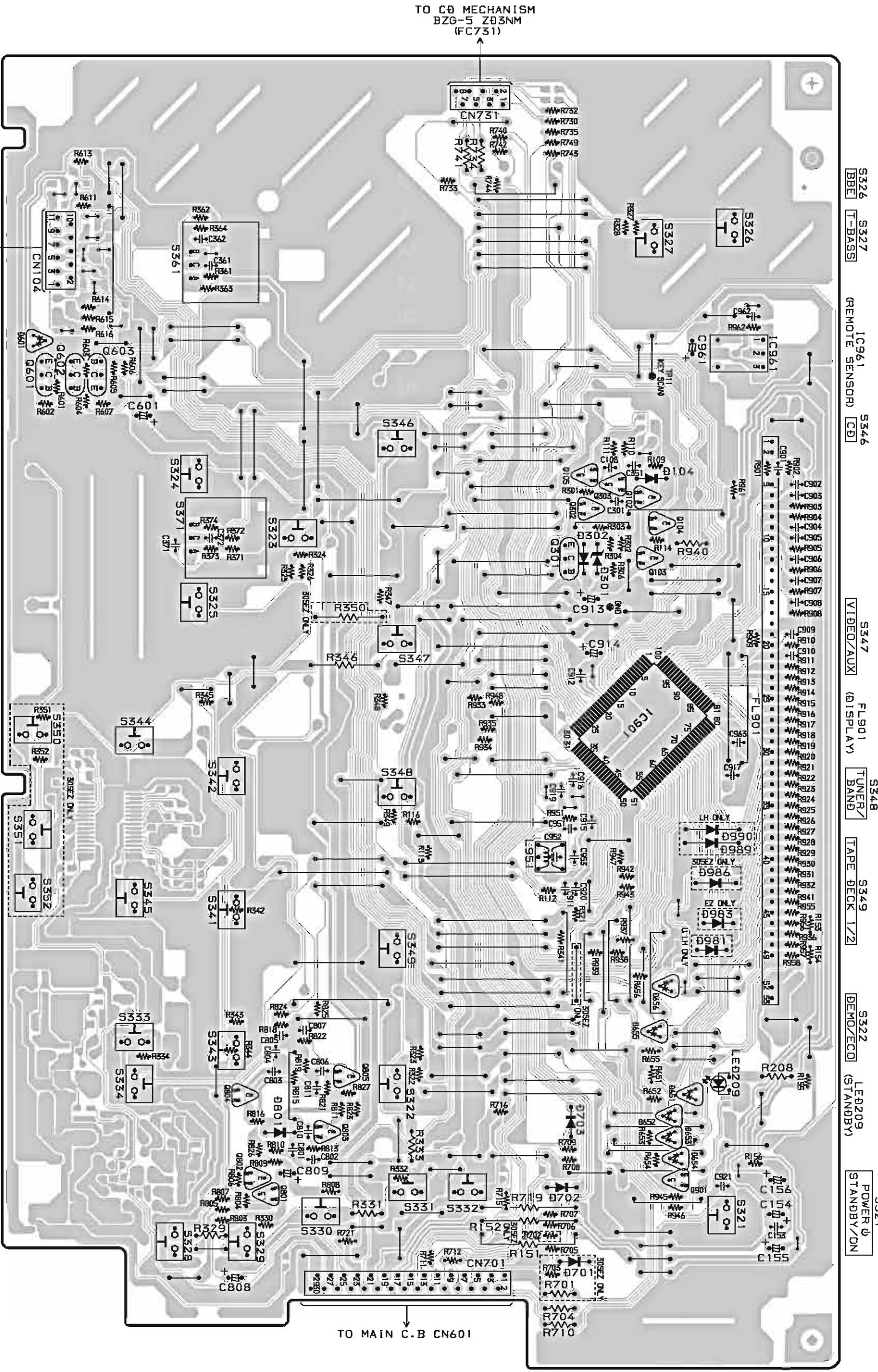




A MAIN C.B <EZ>

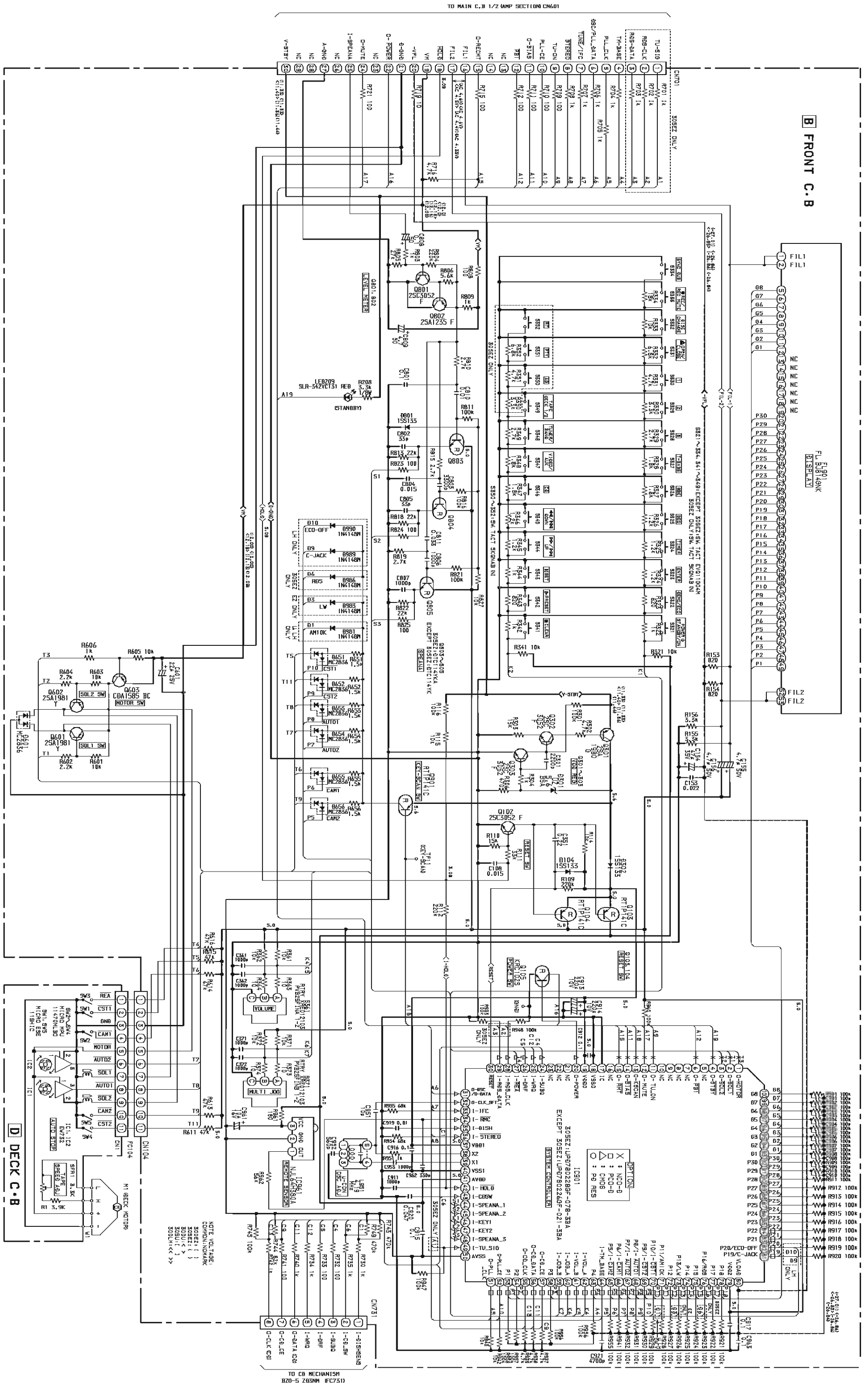


B FRONT C.B

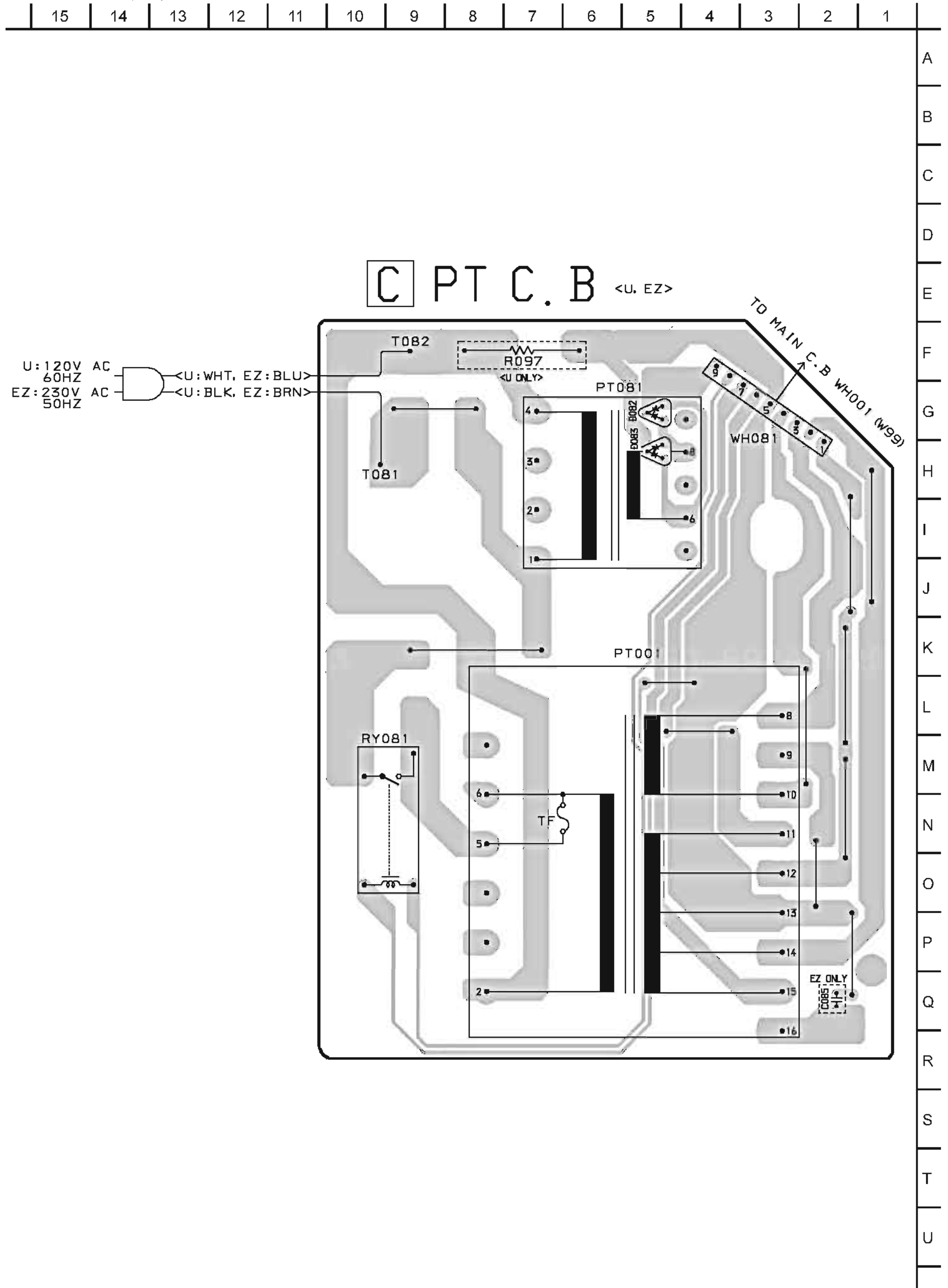


- S324 [BBE] S327 [B-BASS] S346 [REMOTE SENSOR] [CD]
- S347 [VIDEO/AUX] [DISPLAY] S348 [TUNER BAND] S349 [TAPE DECK 1/22]
- S322 [DEMO/ECO] [STANDBY]
- S321 [POWER φ STANDBY/ON]

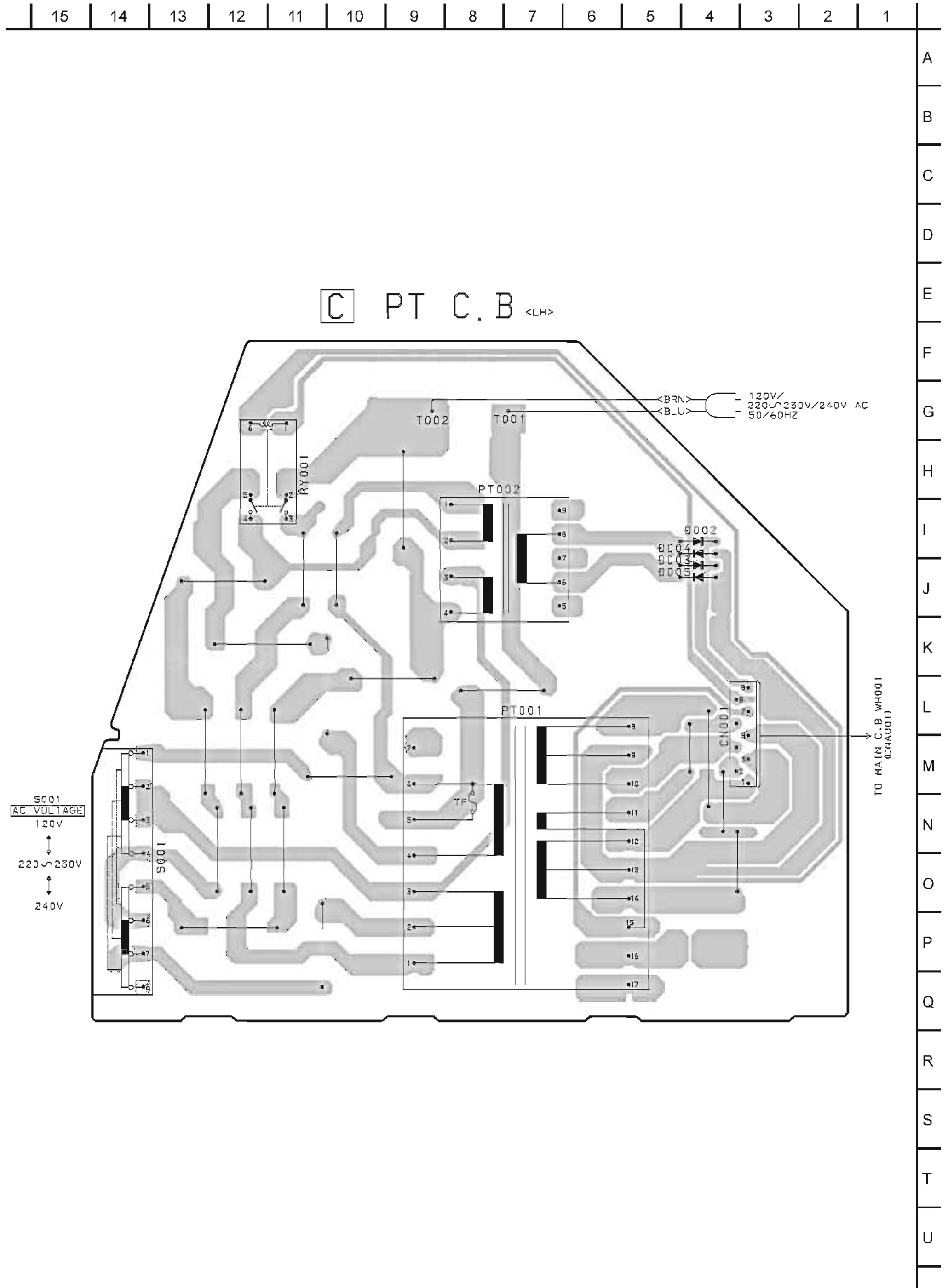
- S361 [VOLUME] TO DECK C.B CN1 (FC104)
- S324 [TIMER] S323 [ENTER] S325 [EQ]
- S371 [MULTI JOG]
- S342 [PRESET] S344 [TUNING] S341 [CLEAR]
- S343 [SET] S332 [DISC CHANGE] S331 [OPEN/CLOSE]
- S345 [TUNING] S345 [CLEAR]
- S343 [SET] S333 [REC/REC MUTE] S334 [SYNC DUB] S331 [DISC DIRECT PLAY]
- S350 [UP] S351 [DOWN] S352 [AG] S351 [PTV] S352 [RT]
- S350 [UP] S351 [DOWN] S352 [AG] S351 [PTV] S352 [RT]
- S350 [UP] S351 [DOWN] S352 [AG] S351 [PTV] S352 [RT]



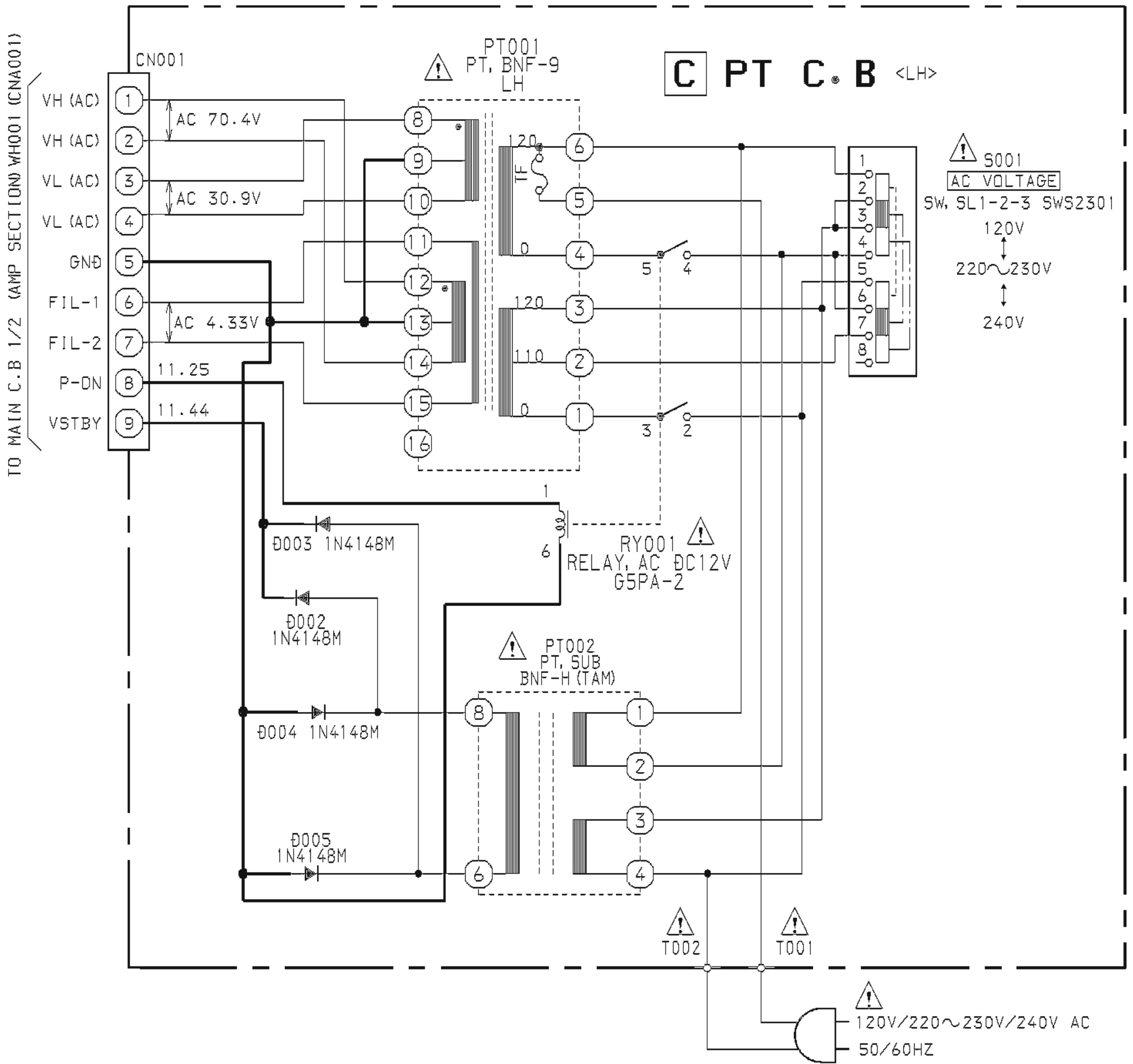
WIRING - 4 (PT) <U, EZ>



WIRING - 5 (PT) <LH>

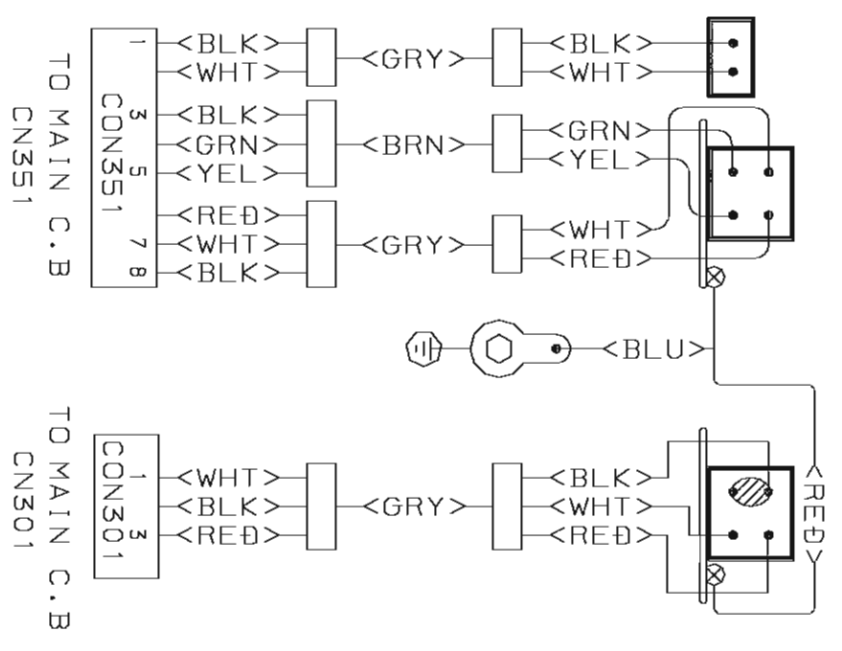
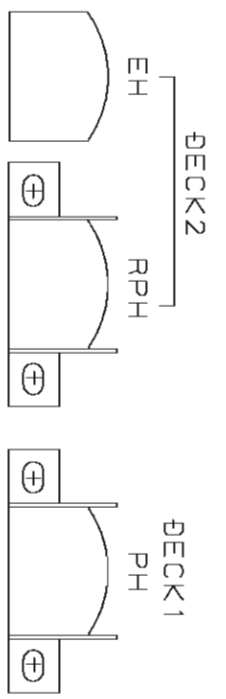
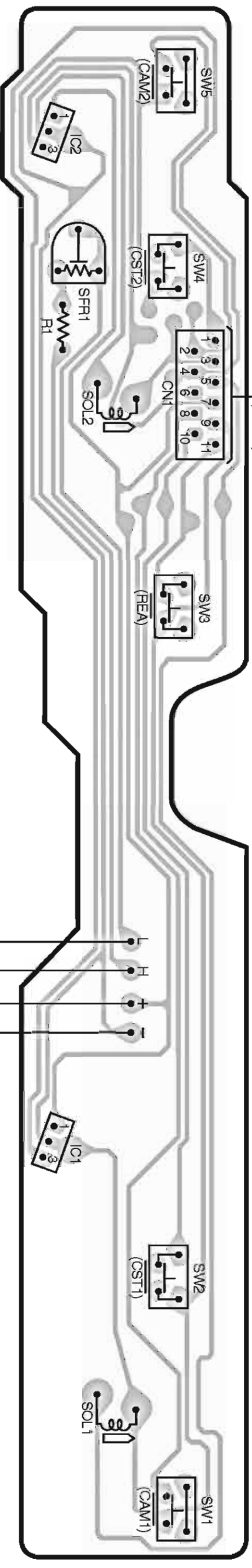


SCHEMATIC DIAGRAM - 7 (PT) <LH>



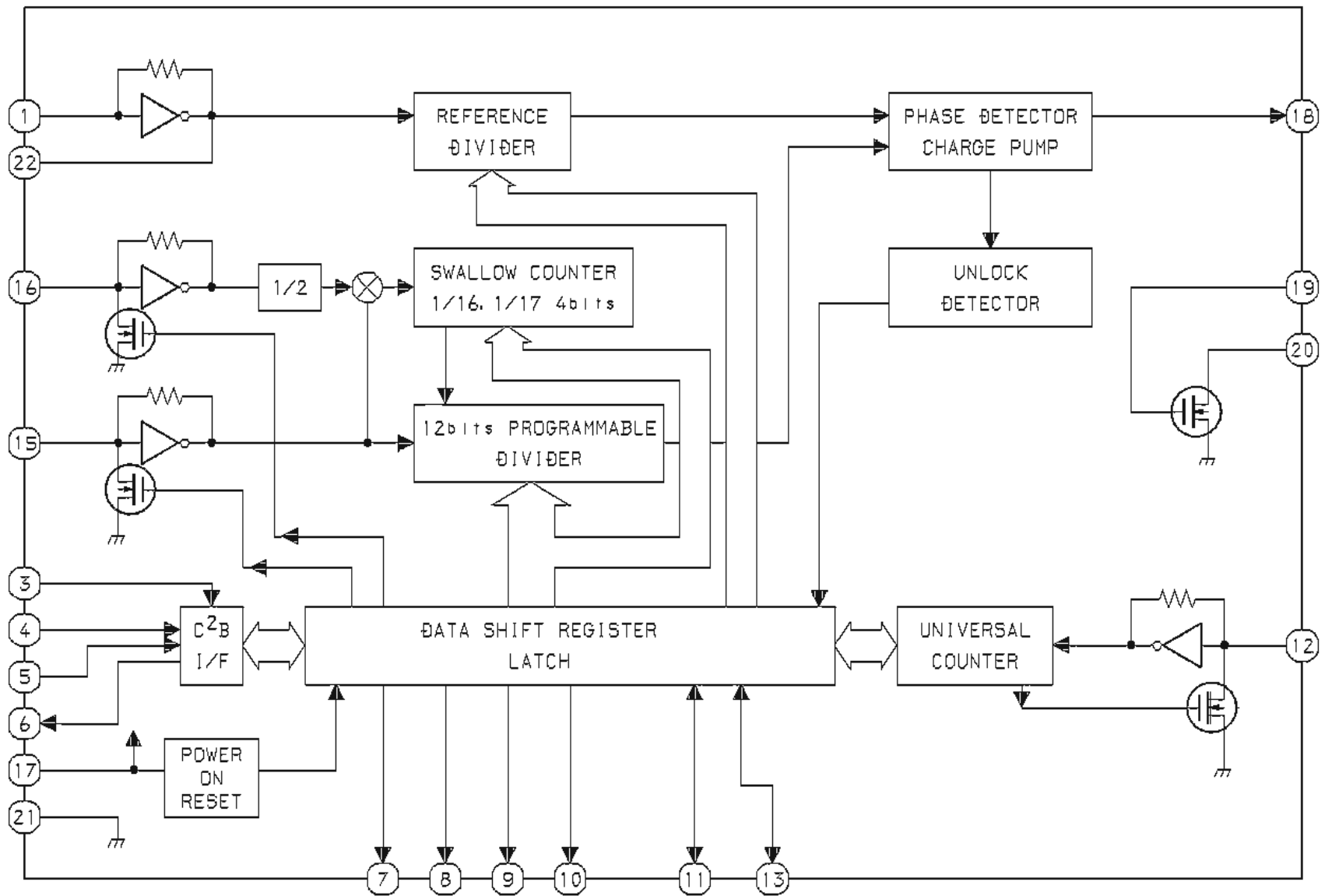
D DECK C.B

TO FRONT C.B CN104
(FC104)

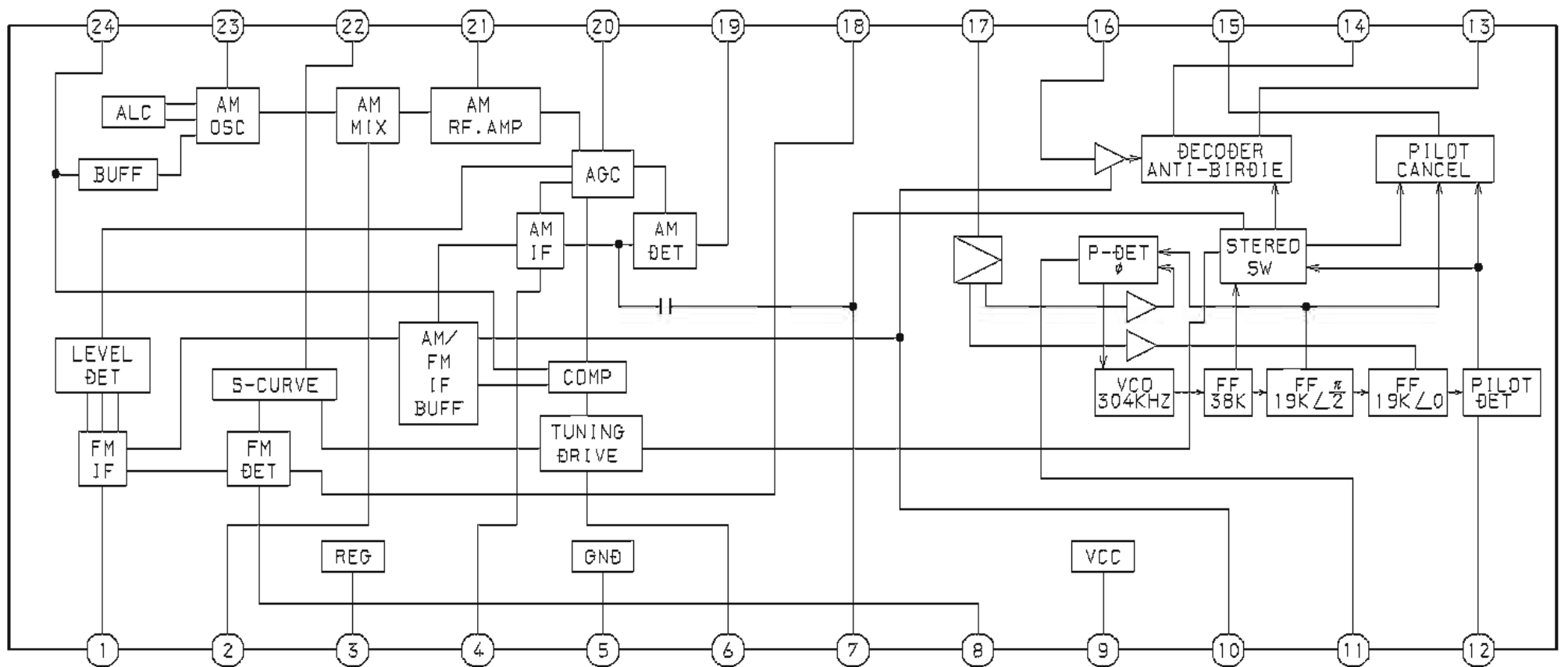


IC BLOCK DIAGRAM

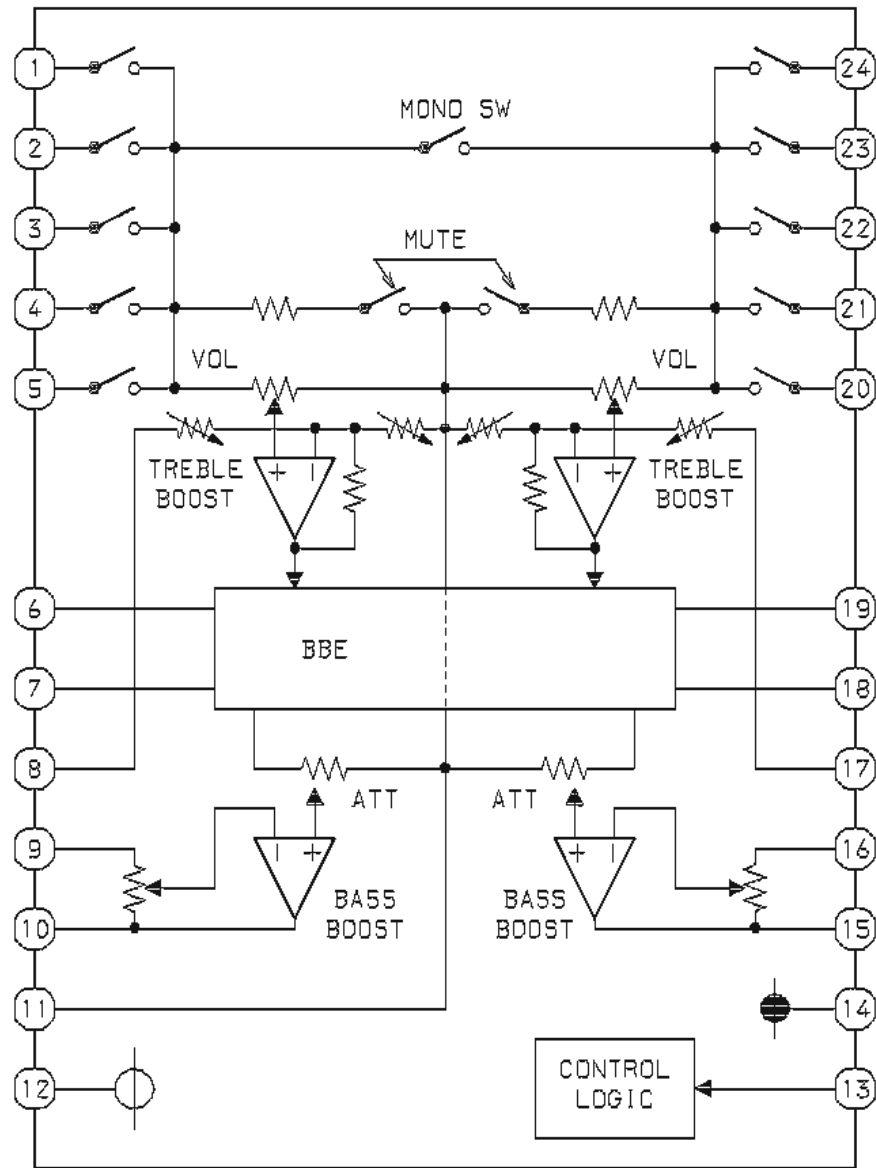
IC, LC72131Ø



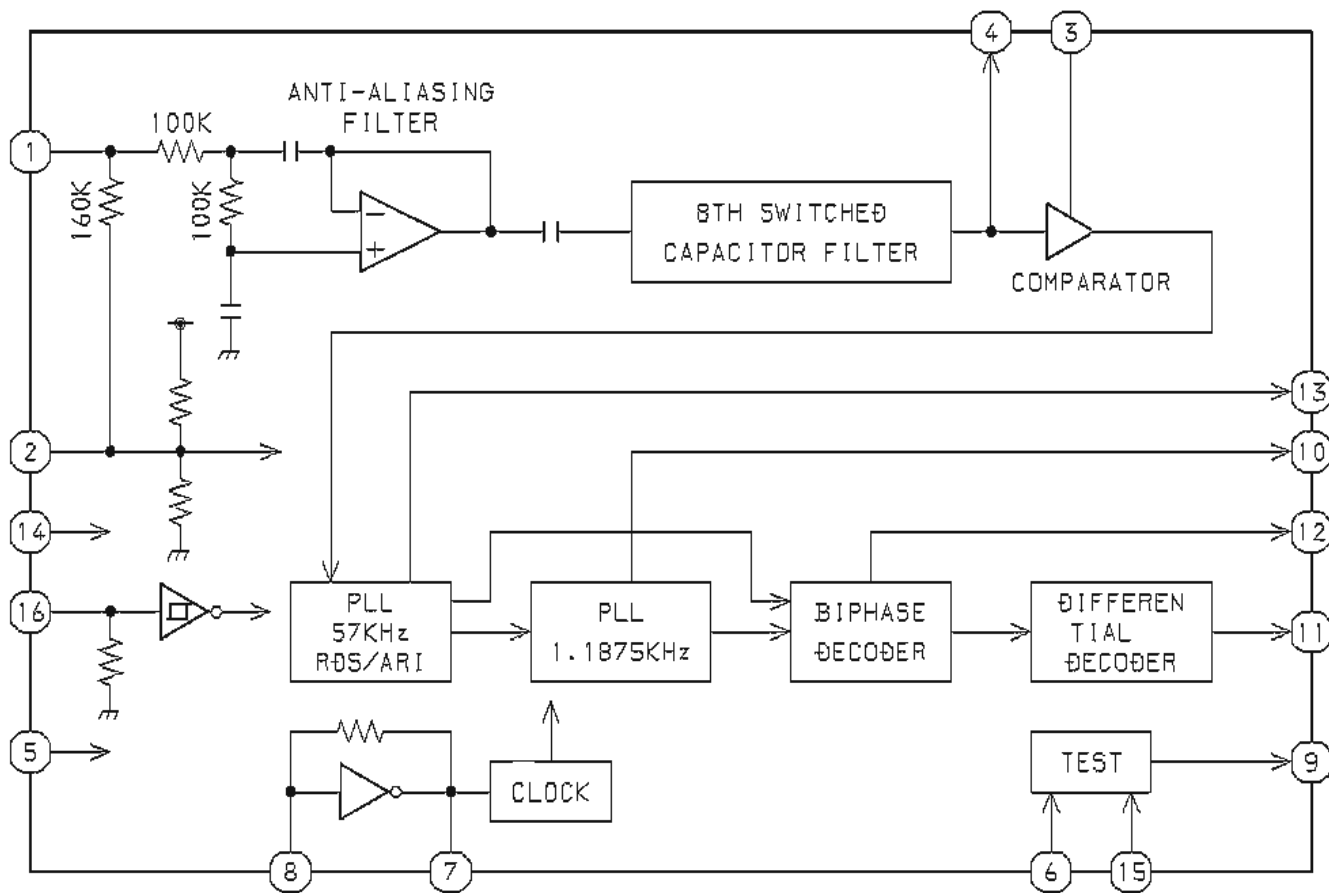
IC, LA1845L



IC, M61503FP



IC, BU1920F5



IC DESCRIPTION

IC, μ PD780226GF-021-3BA<U,LH,300EZ>, IC, μ PD780228GF-078-3BA<305EZ>

Pin No.	Pin Name	I/O	Description
1	O-MOTOR	O	DECK MOTOR $\overline{\text{ON}}$ /OFF output.
2	O-SOL1	O	DECK1 solenoid $\overline{\text{ON}}$ /OFF output.
3	O-SOL2	O	DECK2 solenoid $\overline{\text{ON}}$ /OFF output.
4	O-STBY	O	STANDBY LED (Echo mode) output ($\overline{\text{ON}}$ /OFF).
5	NC	–	Not connected.
6	O-PB1	O	DECK1 playback switch output ($\overline{\text{ON}}$ /OFF).
7	NC	–	Not connected.
8	NC	–	Not connected.
9	NC	–	Not connected.
10	NC	–	Not connected.
11	O-TU_ON	O	TUNER ON/ $\overline{\text{OFF}}$ switch output.
12	O-MUTE	O	System MUTE ON/ $\overline{\text{OFF}}$ output.
13	O-KSCAN	O	Switch SCAN timing output.
14	O-BIAS	O	DECK2 BIAS $\overline{\text{ON}}$ /OFF output.
15	O-RMT	O	DECK2 REC MUTE $\overline{\text{ON}}$ /OFF output.
16	NC	–	Not connected.
17	IC	–	Internal connection (connected to GND).
18	VSSO	–	GND.
19	VDDO	–	Power supply.
20	O-POWER	O	System power supply ON/ $\overline{\text{OFF}}$ output.
21	NC	–	Not connected.
22	NC	–	Not connected.
23	NC	–	Not connected.
24	I-SUBQ	I	CD SUBQ data input.
25	I-WRQ	I	CD interrupt signal input.
26	I-DRF	I	CD focus ON detect data input.
27	I-REA	I	DECK2 sideA record OK switch data input.
28	I-RDS_CLK	I	Tuner RDS clock input <305EZ only>.
29	I-RDS_DATA	I	Tuner RDS data input <305EZ only>.
30	$\overline{\text{RESET}}$	–	System reset input ($\overline{\text{ON}}$ /OFF).
31	O-DSC/O-DATA	O	Function IC/Tuner IC, DATA output.
32	O-CLK_SFT	O	MICON clock shift output.
33	I-IFC	I	Tune IF count serial data input.
34	I-RMC	I	System remote control signal input.
35	I-DISH	I	CD turntable photo sensor input A/D converter input.
36	I-STEREO	I	Tuner STEREO detect input.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	–	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	I-HOLD	I	Power failure detected input.
43	I-CDSW	I	CD mecha switch A/D converter input.

Pin No.	Pin Name	I/O	Description
44	I-SPEANA_1	I	A/D input for spectrum analyser level display.
45	I-SPEANA_2	I	A/D input for spectrum analyser level display.
46	I-KEY1	I	Key A/D input 1.
47	I-KEY2	I	Key A/D input 2.
48	I-SPEANA_3	I	A/D input for spectrum analyser level display.
49	I-TU_SIG	I	Tuner signal input <305EZ only>.
50	AVSS	–	GND.
51	O-PLL_CLK	O	PLL IC clock enable output.
52	O-PLL_CE	O	PLL IC chip enable output.
53, 54	P1, P2	O	FL segment P1, P2 output.
55	O-CD_CLK	O	CD clock output.
56	O-CD_DATA	O	CD data output.
57	O-CD_CE	O	CD chip enable output.
58	P3	O	FL segment P3 output.
59	I-JOG_B	I	Dial jog rotary encoder input B.
60	I-JOG_A	I	Dial jog rotary encoder input A.
61	I-VOL_B	I	Volume rotary encoder input B.
62	I-VOL_A	I	Volume rotary encoder input A.
63	P4	O	FL segment P4 output.
64	I-TM_BASE	I	Base input for clock.
65	P5/I-CAM2	O/I	FL segment P5 output / DECK2 CAM STOP switch data input.
66	P6/I-CAM1	O/I	FL segment P6 output / DECK1 CAM STOP switch data input.
67	P7/I-AUTO2	O/I	FL segment P7 output / DECK2 AUTO STOP switch data input.
68	P8/I-AUTO1	O/I	FL segment P8 output / DECK1 AUTO STOP switch data input.
69	P9/I-CST2	O/I	FL segment P9 output / DECK2 cassette detect switch data input.
70	P10/I-CST1	O/I	FL segment P10 output / DECK1 cassette detect switch data input.
71	P11/AM10K	O/I	FL segment P11 output / AM10K input to diode <U,LH only>.
72	P12	O	FL segment P12 output.
73	P13/LW	O/I	FL segment P13 output / LW input to diode <EZ only>.
74, 75	P14, P15	O	FL segment P14, P15 output.
76	P16/RDS	O/I	FL segment P16 output / RDS input to diode <305EZ only>.
77, 78	P17, P18	O	FL segment P17, P18 output.
79	VDD2	–	Power supply.
80	VLOAD	–	Power supply for FL display.
81	P19/C-JACK	O/I	FL segment P19 output / C-JACK data input <LH only>.
82	P20/ECO-OFF	O/I	FL segment P20 output / ECO-OFF data input <LH only>.
83 ~ 92	P21 ~ P30	O	FL segment P21 ~ P30 output.
93 ~100	G1 ~ G8	O	FL grid G1 ~ G8 output.

ADJUSTMENT <TUNER / FRONT / DECK>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to AM 1710kHz(U,LH), MW 1602kHz(EZ) and check that the test point is $2160\text{kHz} \pm 45\text{Hz}$ (U,LH), $2052\text{kHz} \pm 45\text{Hz}$ (EZ).
2. AM(MW) VT Check
Settings : • Test point : TP1 (VT)
Method : Set to AM 1710kHz(U,LH), MW 1602kHz(EZ) and check that the test point is less than 8.5V(U,LH), less than 8.0V(EZ).
Then set to AM 530kHz(U,LH), MW 531kHz (EZ) and check that the test point is more than 0.6V.
3. LW VT Adjustment <EZ>
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes $1.3\text{V} \pm 0.05\text{V}$. Then set to LW 290kHz and check that the test point is less than 8.0V.
4. FM VT Adjust <U,LH>
Settings : • Test point : TP1 (VT)
• Adjustment location : L906
Method : Set to FM 87.5MHz, 108.0MHz and adjust L906 so that the test point becomes more than 0.4V (87.5MHz) and equals to $7.0\text{V} \pm 0.1\text{V}$ (108.0MHz).
5. FM VT Check <EZ>
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).
6. AM(MW) Tracking Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location : L951(1/3)
Method : Set to AM 1000kHz(U,LH), MW 999kHz(EZ) and adjust L951(1/3) to MAX.
7. LW Tracking Adjustment <EZ>
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L941144kHz
TC942290kHz
Method : Set up TC942 to center before adjustment.
Adjust L941 so that the level at 144kHz becomes maximum. Then adjust TC942 so that the level at 290kHz becomes maximum.
8. FM Tracking Adjustment <U,LH>
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location : L903
Method : Set to FM 87.5MHz and adjust L903 so that the test point becomes maximum.
9. FM Tracking Check <EZ>
Settings : • Test point : TP8(Lch), TP9(Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 13dB μ V.
10. AM IF Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L802450kHz.
11. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
TP8(Lch), TP9(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 $0\text{V} \pm 500\text{mV}$.
Next, check that the distortion is less than 1.2%.

< FRONT SECTION >

12. μ -CON OSC Adjustment
Settings : • Test point : TP11 (KEY-SCAN), (GND)
• Adjustment location : L951
Method : Connect a frequency counter across TP11 (KEY-SCAN) and GND. Insert AC plug while pressing POWER key and TUNER function key. Then adjust L951 so that the test point becomes $112.88\text{Hz} \pm 0.11\text{Hz}$.
To manual reset press POWER key while pressing CLEAR key.

< DECK SECTION >

13. Tape Speed Adjustment (DECK 2)
Settings : • Test tape : TTA-100
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.
14. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : 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.
15. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(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 within 5.0dB.
16. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP8(Lch), TP9(Rch)
Method : Play back the test tape and check that the output level of the test point is $110\text{mV} \pm 3.0\text{dB}$.
17. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1kHz / 8kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (10mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{B} \pm 1\text{dB}$ with respect to that of the 1kHz signal.
18. REC/PB Sensitivity Check (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (100mV). Record and play back the 1kHz signal and check that the output is $-1\text{dB} \pm 3.5\text{dB}$.

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 [CD TEST] is displayed.

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC plug.

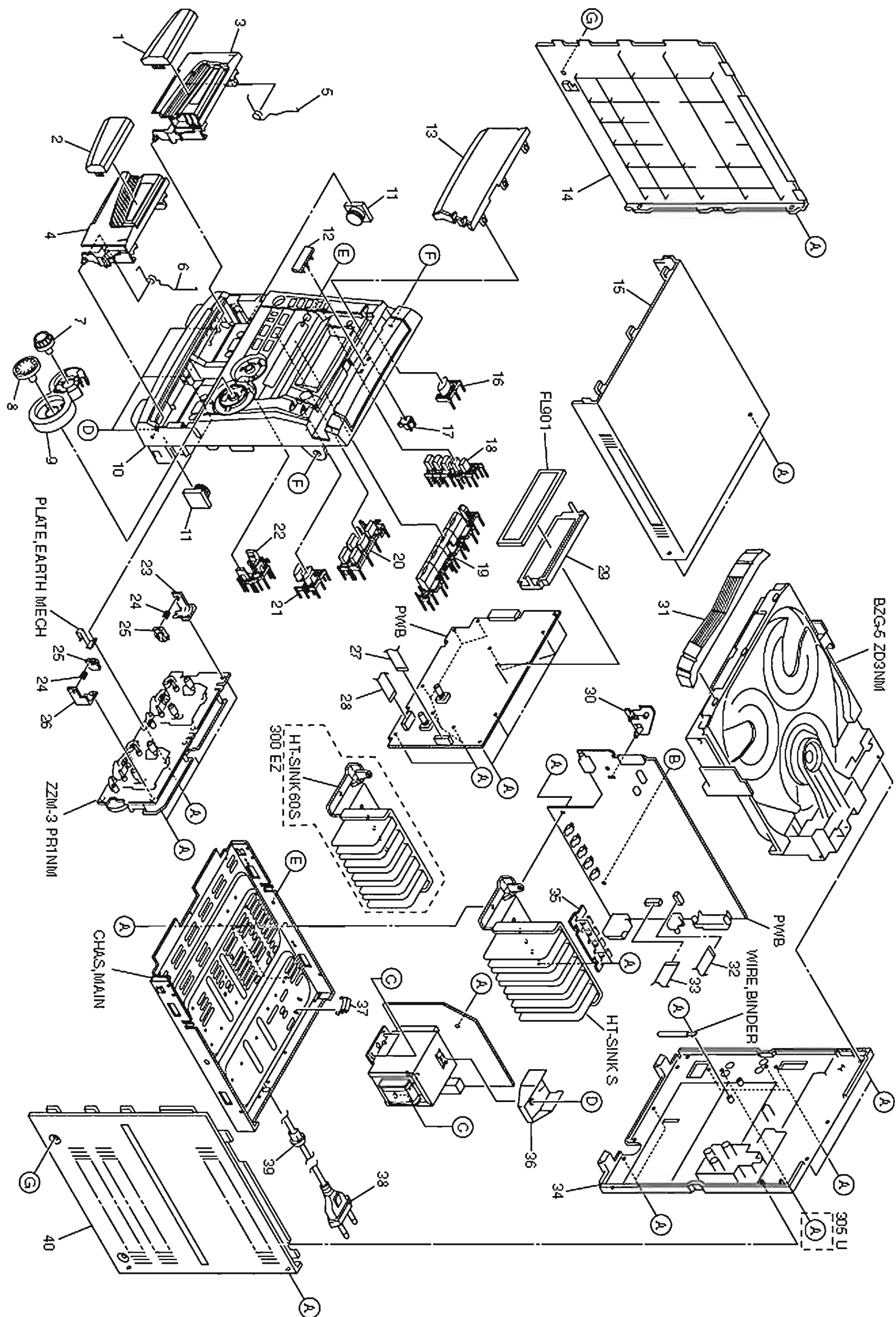
* When any key other than PLAY is pressed during play mode, the machine exits the test mode.

3. Function Descriptions and Application of the CD Test Mode

No	Mode	Operation	Display	Function	Checking item
1	Start mode		All indicators light	<ul style="list-style-type: none"> All FL indicators light 	<ul style="list-style-type: none"> FL check Microprocessor check
2	Search mode	STOP button	READING	<ul style="list-style-type: none"> LD illuminates all the time Focus search continuous operations *1 Spindle motor continuous kick 	<ul style="list-style-type: none"> APC circuit check Laser current measurement Focus search waveform check Focus error waveform check (DRF in the search mode is ignored)
3	Play mode	RESET button	Normal	<ul style="list-style-type: none"> Normal playback If TOC cannot be read, focus search is continued 	<ul style="list-style-type: none"> Each servo circuit is checked DRF check
4	Traverse mode	PAUSE button	Normal	<ul style="list-style-type: none"> Tracking servo OFF/ON Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON 	<ul style="list-style-type: none"> Tracking balance check
5	Sled mode	UP button	CD TEST	<ul style="list-style-type: none"> Pickup moves to the inner circumference *2 At the same time, lens kicks to the inner circumference 	<ul style="list-style-type: none"> Sled circuit check Tracking circuit check Mechanism operation check Pickup check
		DOWN button	CD TEST	<ul style="list-style-type: none"> Pickup moves to the outer circumference *2 At the same time, lens kicks to the outer circumference 	
6	Spindle mode	REC/REC MUTE button	All indicators light	<ul style="list-style-type: none"> The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again 	<ul style="list-style-type: none"> Spindle circuit Spindle motor

*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 cannot 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 UP or DOWN button is being pressed even if the pick-up is located in the innermost track or the outermost track.

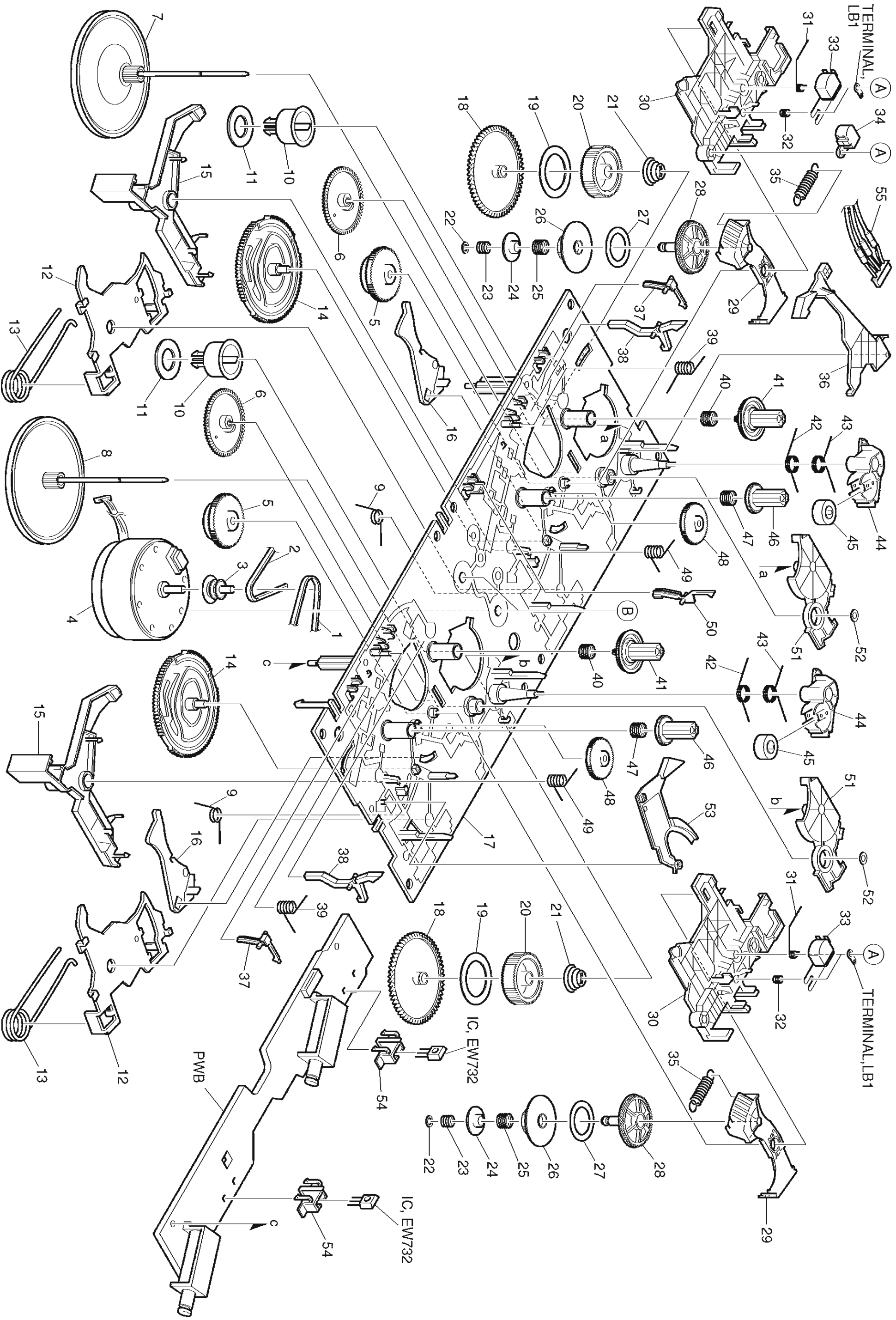


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF9-008-010		WINDOW, CASS 1	28	88-911-101-110		FF-CABLE, 11P 1.25
2	8B-NF9-009-010		WINDOW, CASS 2	29	8B-NF9-207-010		GUIDE, FL 90.2-20
3	8B-NF9-003-110		BOX, CASS 1	30	8A-NF8-206-010		HLDR, PWB M
4	8B-NF9-004-110		BOX, CASS 2	31	8B-NF9-006-010		PANEL, TRAY
5	8A-NF8-281-010		SPR-T, EJECT 1	32	88-906-251-110		FF-CABLE, 6P 1.25 (RVS-FACE)
6	8A-NF8-282-010		SPR-T, EJECT 2	33	8A-NF9-609-010		F-CABLE, 9P 2.5 480MM<U, EZ>
7	8B-NF9-020-010		KNOB, RTRY JOG	34	8B-NF9-072-010		CABI, REAR EZSM<EZ>
8	8B-NF9-019-010		KNOB, RTRY VOL	34	8B-NF9-071-010		CABI, REAR LHSM<LH>
9	8B-NF9-007-010		PANEL, JOG	34	8B-NF9-069-010		CABI, REAR USM<300U>
10	8B-NF9-032-010		CABI, FR<LH, EZ>	34	8B-NF9-070-010		CABI, REAR USM 305<305U>
10	8B-NF9-001-010		CABI, FR U<U>	35	8B-NF9-211-010		HLDR, TR S
11	8Z-NF6-210-010		DMPR, 150 N	36	8A-NF9-211-010		HLDR, PWB PT HI
12	87-CE3-023-010		BADGE, AIWA 30N SILV	37	87-NF4-221-010		HLDR, CABLE
13	8B-NF9-035-010		WINDOW, DISP H<LH, EZ>	38	87-A80-092-010		AC CORD ASSY, E BLK SUN FAI<LH, EZ>
13	8B-NF9-010-010		WINDOW, DISP U<300U>	38	87-A80-110-010		AC CORD ASSY, U SPT-2W<U>
13	8B-NF9-037-010		WINDOW, DISP U 305<305U>	39	87-085-185-010		BUSHING, AC CORD (E) <LH, EZ>
14	8B-NF9-026-010		PANEL, LEFT	39	87-A91-422-010		BUSHING, AC CORD (U) <U>
15	8B-NF9-027-010		PANEL, TOP	40	8B-NF9-025-010		PANEL, RIGHT
16	8B-NF9-011-110		KEY, POWER	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
17	8B-NF9-021-010		REFLECTOR, ECO	B	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
18	8B-NF9-014-010		KEY, CD	C	87-078-200-010		S-SCREW, ITC+4-8 R
19	8B-NF9-013-010		KEY, FUN	D	87-067-689-010		TAPPING SCREW, BVTT+3-8
20	8B-NF9-016-010		KEY, OPE P	E	87-721-096-410		QT2+3-10 GLD
21	8B-NF9-012-010		KEY, T-BASS	F	87-721-097-410		QT2+3-12 GLD
22	8B-NF9-018-010		KEY, GEQ	G	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
23	87-NF4-216-010		HLDR, LOCK 1				
24	86-NF9-224-010		SPR-C, LOCK				
25	82-NF5-229-010		PLATE, LOCK				
26	87-NF4-217-110		HLDR, LOCK 2				
27	88-908-301-110		FF-CABLE, 8P 1.25				

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



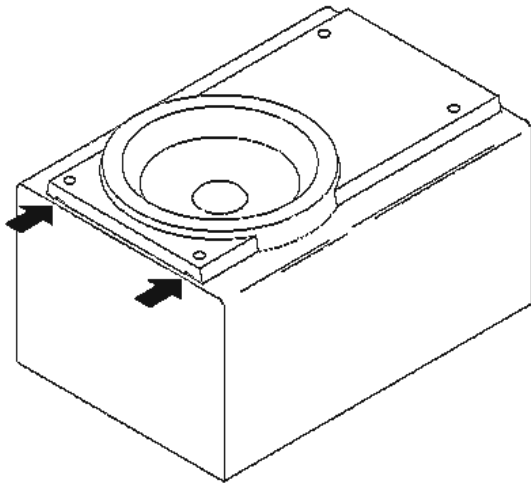
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT, MAIN M3	31	8Z-ZM3-233-010		SPR-T, BRG M3
2	8Z-ZM3-235-010		BELT, MAIN L	32	84-ZM2-227-310		SPR-C, AZIMUTH
3	8Z-ZM1-235-010		PULLEY, MOT	33	87-A90-403-110		HEAD, RPH MS15R
4	87-045-347-010		MOT, SHU2L 70	34	87-A90-404-010		HEAD, EH LE15B
5	8Z-ZM1-232-010		GEAR, IDL FF/REW	35	8Z-ZM3-239-010		SPR-E, FR
6	8Z-ZM3-244-010		GEAR, CAM TD20	36	8Z-ZM3-211-010		LEVER, EJECT R
7	8Z-ZM3-256-010		FLY-WHL ASSY, M3 R	37	8Z-ZM3-225-010		LEVER, STOP
8	8Z-ZM3-255-010		FLY-WHL ASSY, M3 L	38	8Z-ZM3-221-010		LEVER, CAS
9	8Z-ZM3-231-010		SPR-T, TRIG	39	8Z-ZM3-234-010		SPR-T, LVR CAS
10	8Z-ZM3-213-010		CLR, MG	40	8Z-ZM3-223-010		SPR-C, REEL R M3
11	82-ZM3-616-010		RING MAGNET 4	41	8Z-ZM1-225-110		GEAR, REEL R
12	8Z-ZM3-243-010		LEVER ASSY, HD UP	42	8Z-ZM3-240-010		SPR-T, T-UP M3
13	8Z-ZM3-238-010		SPR-T, HD UP	43	8Z-ZM3-237-010		SPR-T, PINCH M3
14	8Z-ZM3-219-010		GEAR, CAM M3	44	8Z-ZM3-215-010		LEVER, PINCH M3
15	8Z-ZM3-206-010		LEVER, TRIG	45	8Z-ZM1-261-110		ROLLER ASSY, PINCH
16	8Z-ZM3-209-010		LEVER, CAM FR	46	8Z-ZM1-226-010		GEAR, REEL L
17	8Z-ZM3-203-010		CHAS ASSY, M3	47	8Z-ZM3-222-010		SPR-C, REEL L M3
18	8Z-ZM1-228-010		GEAR, SLIP T-UP B	48	8Z-ZM3-251-010		GEAR, IDL REW M3
19	8Z-ZM1-265-010		FELT, T-UP	49	8Z-ZM3-236-010		SPR-T, PLAY M3
20	8Z-ZM1-227-010		GEAR, SLIP T-UP A	50	82-ZM1-240-110		LVR, REC(*)
21	8Z-ZM1-251-110		SPR-C, T-UP SLIP	51	8Z-ZM3-216-010		LEVER, T-UP M3
22	8Z-ZM1-275-010		W-L, 1, 47-4-0.25	52	87-B10-301-010		W-L, 1.63-3.2-05 SLIT
23	8Z-ZM1-257-010		SPR-C, F/R	53	8Z-ZM3-212-010		LEVER, EJECT L
24	8Z-ZM1-236-010		CLR, SLIP FF/REW	54	8Z-ZM3-214-010		HLDR, IC
25	8Z-ZM3-226-010		SPR-C, FR M3	55	86-ZM3-605-110		CONN ASSY, 8P -R/PB
26	8Z-ZM3-250-010		GEAR, SLIP F/R A M3	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
27	8Z-ZM1-269-010		FELT, FF/REW 2	B	8Z-ZM2-220-110		V+2.6 ZZM-2
28	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2				
29	8Z-ZM3-220-010		LEVER, FR M3				
30	8Z-ZM3-205-010		LEVER, PLAY M3				

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

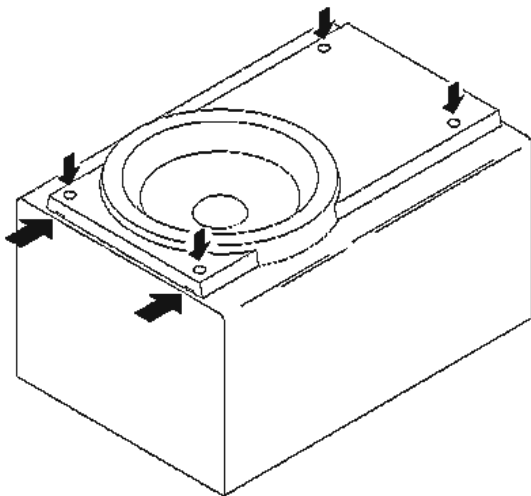
Type.1

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.



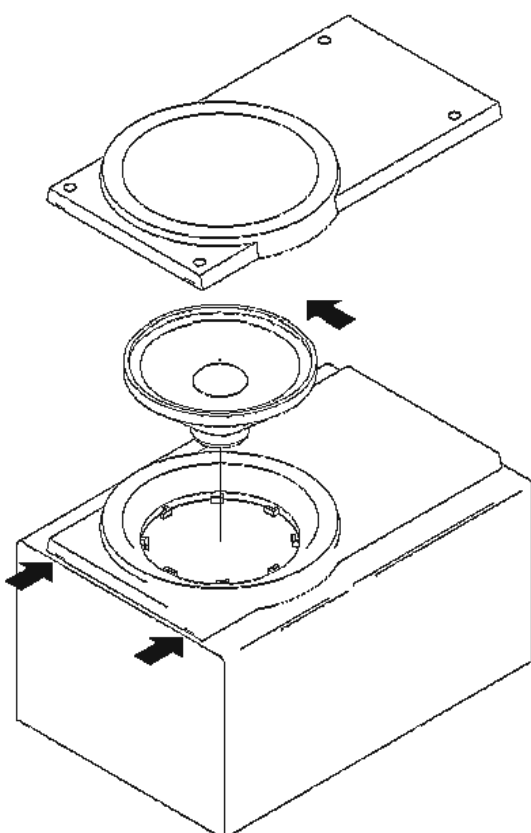
Type.2

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.

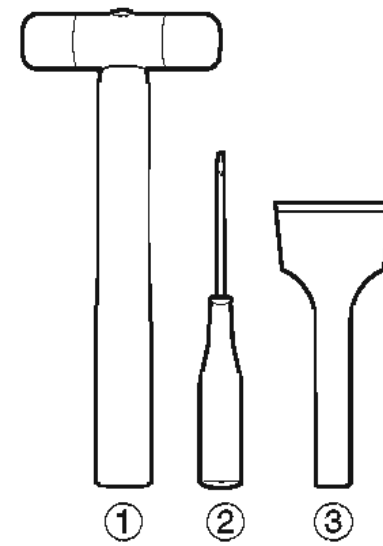


Type.3

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.

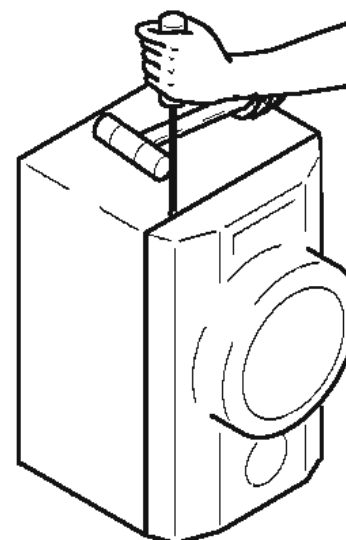


Fig-1

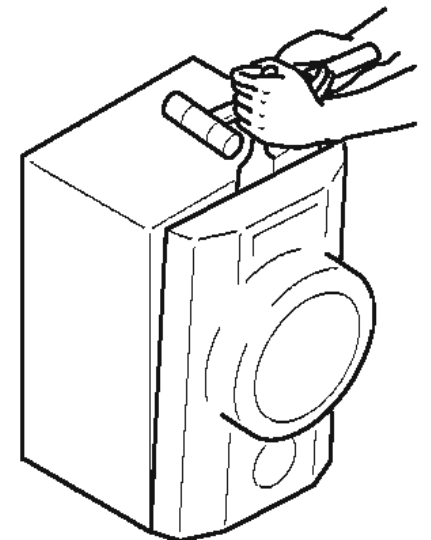


Fig-2

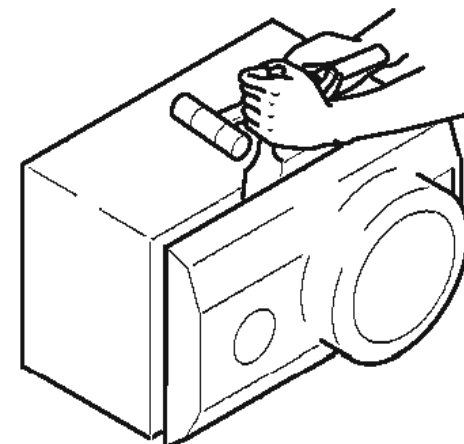


Fig-3

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-NAJ302(YUSC,YUSL,YUSN,YUS1N,YUSC9)

SX-NSZ302 (YSC,YSL,YLSC,YLSL,YSC9,YLSC9)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSK-001-010		PANEL, FR R
2	8B-NSK-002-010		PANEL, FR L
3	8B-NSK-005-010		PROTECTOR, ASSY
4	8B-NSK-602-010		SPKR,W 160<EXCEPT YLSC,YLSL,YLSC9>
4	8B-NSK-608-010		SPKR,W 160 H<YLSC,YLSL,YLSC9>
5	8B-NSK-604-010		SPKR,T 60<EXCEPT YSC,YSL,YSC9>
5	8B-NSK-610-010		SPKR,T 60<YSC,YSL,YSC9>
6	87-NS7-611-010		CORD,SPKR
7	87-NSH-612-010		SPKR,CERAMIC ASSY

SPEAKER PARTS LIST

SX-R145(YUSC,YUSN,YUS1N)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	81-VSA-010-010		SPKR, CORD
2	87-010-384-010		CAP,E 100-25 M SME
3	8A-YS4-610-010		CORD,SPKR 3.5
4	8A-YS4-601-010		SPKR,80
5	8A-YS4-006-010		GRILLE, FRAME ASSY

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF9-912-010		IB,LH(ESP)M<LH>
1	8B-NF9-913-010		IB,U(ESF)M<U>
1	8B-NF9-915-010		IB,EZ(9L)M-SZ305<305EZ>
1	8B-NF9-926-010		IB,EZ(9L)M<300EZ>
2	8Z-NF9-701-210		RC UNIT,ZAS02
3	87-006-225-010		AM,LOOP ANT NC2<U,LH>
3	87-A92-150-010		ANT,LOOP AM NO-CONT<300EZ>
3	87-006-268-010		ANT,LOOP AM<305EZ>
4	87-043-115-010		FEEDER-ANT FM<U,LH>
4	87-A90-118-010		ANT,WIRE FM(Z)<EZ>
△	5	87-A91-017-010	PLUG CONVERSION, JT-0476<LH>

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