

SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-3MK2 PR7NM
BASIC CD MECHANISM : BZG-5 ZD3N1DM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-SZ900	CX-NSZ900	SX-WNSZ900	RC-BAS04
		SX-S85	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" of CX-NSZ900 (LH), (S/M Code No. 09-013-444-1T1).
- 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. 09-015-444-1R1

REVISION

DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM 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

<Amplifier section>

Main amplifier

Power output	Rated: 172 W + 172 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 215 W + 215 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.1 % (150 W, 1 kHz, 6 ohms, DIN AUDIO)

Satellite amplifier

Power output	Rated: 20 W + 20 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 25 W + 25 W (8 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.2 % (8 W, 1 kHz, 8 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 300 mV (adjustable) MD: 300 mV (adjustable) MIC 1, MIC 2: 1.0 mV (10 kohms)
Outputs	SPEAKERS: 6 ohms or more SATELLITE SPEAKERS: 8 ohms or more LINE OUT: 210 mV CD DIGITAL OUT (OPTICAL) PHONES: 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz – 16 kHz Normal tape: 50 Hz – 15 kHz
Recording system	AC bias
Heads	Deck 1: Playback x 1 Deck 2: Recording/playback x 1, erase x 1

<CD 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	120 V/ 220 V – 230 V/ 240 V AC (switchable) 50/60 Hz
Power consumption	250 W
Power consumption in standby mode	With ECO mode on: 0.6 W With ECO mode off: 40 W
Dimensions (W x H x D)	260 x 326 x 394 mm
Weight	10.5 kg

<Main speakers SX-WNSZ900>

Speaker system	3 way, Built-in subwoofer (magnetic shielded type)
Speaker units	Subwoofer: 200 mm cone type Full range: 100 mm cone type Super tweeter: 20 mm ceramic type x 2
Impedance	6 ohms
Dimensions (W x H x D)	240 x 324 x 294 mm
Weight	5.4 kg

<Satellite speakers SX-S85>

Speaker system	Full range (magnetic shielded type)
Speaker units	80 mm cone type
Impedance	8 ohms
Sensitivity	87 dB/W/m
Dimensions (W x H x D)	100 x 325 x 95 mm (with pedestal) 100 x 186 x 84 mm (without pedestal)
Weight	0.6 kg

- Design and specifications are subject to change without notice.
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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

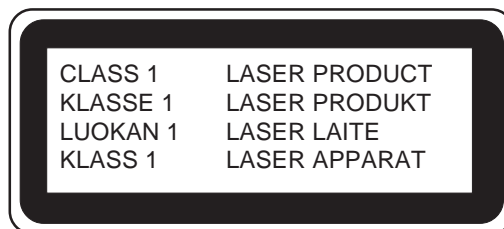
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

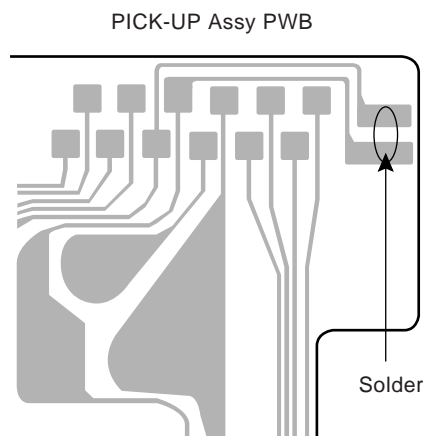


Precaution to replace Optical block

(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.

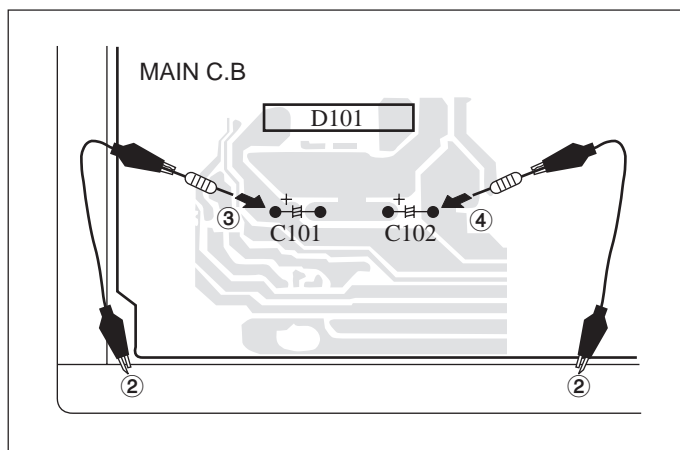


Fig-1

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 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.

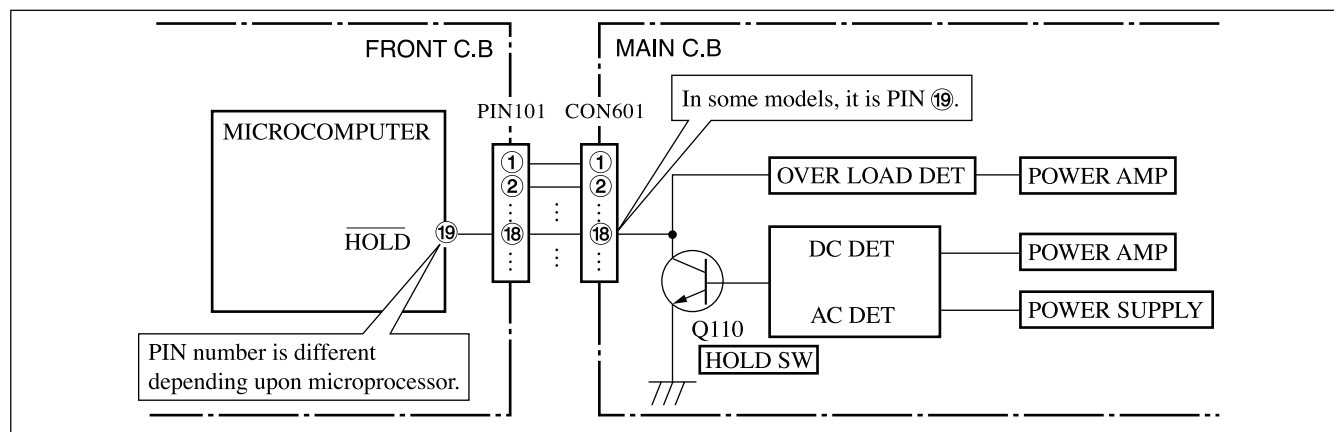


Fig-2-1

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.

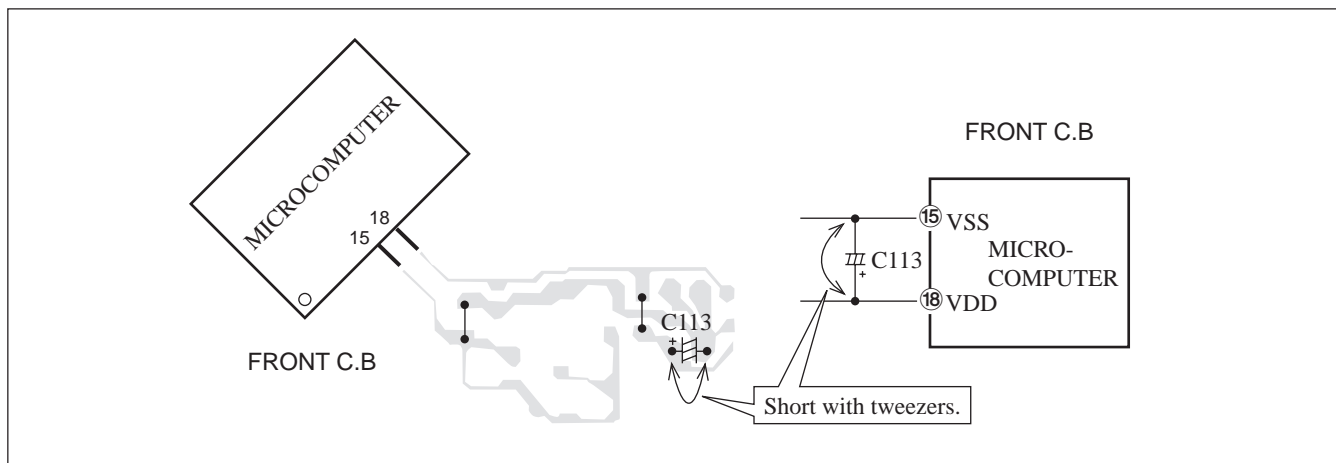


Fig-2-2

- 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.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C11	87-012-368-080		C-CAP,S 0.1-50 Z F
	8B-NF6-601-030		C-IC,LC876670B-5V72	C12	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A21-911-040		C-IC,M61515FP	C13	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A21-023-040		C-IC,BA3835F	C14	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A21-051-040		C-IC,BU9990-03FS	C20	87-010-918-090		CAP,E 4700-50 SMG
	87-A21-831-010		IC,SPS-422-1-F1	C21	87-A12-780-090		CAP,E 4700-35 M 85 SKR
	87-A21-695-010		IC,LA1845L	C23	87-A10-231-090		CAP,E 3300-80
	87-A21-928-010		IC,LC72131D-N	C24	87-A10-231-090		CAP,E 3300-80
	87-A20-783-040		C-IC,BA7762AFS	C31	87-A12-062-080		CAP,E 100-10 SMG
	87-A21-018-040		C-IC,M65849BFP631D	C32	87-012-286-080		C-CAP,U 0.01-25 K B
	87-A21-948-030		C-IC,BD3877KS2	C33	87-A12-071-080		CAP,E 47-25 SMG
	87-A21-269-010		IC,EW732	C34	87-A12-089-080		CAP,E 3.3-50 SMG
TRANSISTOR				C35	87-012-286-080		C-CAP,U 0.01-25 KB
	87-A30-559-010		TR,CSB1370EF	C36	87-A12-062-080		CAP,E 100-10 SMG
	87-A30-076-080		C-TR,2SC3052F	C37	87-A12-072-080		CAP,E 100-25 SMG
	87-A30-075-080		C-TR,2SA1235F	C38	87-A12-092-080		CAP,E 22-50 SMG
	87-A30-186-010		FET,2SK3053	C39	87-A12-067-080		CAP,E 330-16 SMG
	87-A30-107-070		C-TR,CMBT5401	C40	87-A12-074-080		CAP,E 470-25 SMG
	87-A30-484-080		C-TR,KRA102S	C101	87-012-276-080		C-CAP,U 1500P-50 K B
	87-A30-106-040		C-TR,CMBT5551	C102	87-012-276-080		C-CAP,U 1500P-50 K B
	87-A30-190-080		TR,CC5551	C103	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-204-010		TR,2SD2439	C104	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-205-010		TR,2SB1588	C105	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-086-040		C-TR,CSD1306E	C106	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-026-609-080		TR,KTA1266GR	C123	87-010-759-080		C-CAP,U 0.1-25 Z F
	87-A30-468-080		C-TR,KRC102S-RTK	C124	87-010-759-080		C-CAP,U 0.1-25 Z F
	87-A30-087-080		C-FET,2SK2158	C125	87-010-759-080		C-CAP,U 0.1-25 Z F
	87-A30-256-010		TR,2SD1933	C126	87-010-759-080		C-CAP,U 0.1-25 Z F
	87-A30-255-010		TR,2SB1342	C130	87-012-274-080		C-CAP,U 1000P-50 K B
	87-A30-071-080		C-TR,RT1N 144C	C131	87-A12-087-080		CAP,E 1-50 SMG
	87-A30-582-080		TR,CDAL585BC	C132	87-A12-071-080		CAP,E 47-25 SMG
	87-A30-495-080		TR,2SA1981Y	C133	87-A12-071-080		CAP,E 47-25 SMG
	87-A30-074-080		C-TR,RT1P 141C	C301	87-012-188-080		C-CAP,U 47P-50 CH
	87-026-225-080		C-FET,2SJ106GR	C302	87-012-188-080		C-CAP,U 47P-50 CH
	87-A30-494-080		TR,2SA1980G	C303	87-012-336-080		C-CAP,U 330P-50 J SL
	87-026-610-080		TR,KTC3198GR	C304	87-012-336-080		C-CAP,U 330P-50 J SL
	87-A30-234-080		TR,CSC4115BC	C305	87-012-336-080		C-CAP,U 330P-50 J SL
	87-A30-063-080		C-TR,KRA104S	C306	87-012-336-080		C-CAP,U 330P-50 J SL
	87-A30-216-080		TR,2SA933AS (R)	C307	87-A10-262-080		C-CAP,U 1-10 Z F
	87-A30-521-080		C-TR,2SC5345S (O)	C309	87-A10-260-080		C-CAP,U 0.1-16 K B
	87-A30-489-080		C-TR,KRA107S	C310	87-A10-260-080		C-CAP,U 0.1-16 K B
	89-503-602-080		C-FET,2SK360E	C311	87-010-787-080		CAP,U 0.022-25 K B
	89-327-143-080		C-TR,2S27140	C312	87-010-787-080		CAP,U 0.022-25 K B
DIODE				C313	87-012-277-080		C-CAP,U 1800P-50 K B GRM
	87-017-149-080		ZENER,HZS6A2L	C314	87-012-277-080		C-CAP,U 1800P-50 K B GRM
	87-A40-291-080		DIODE,1N4148M (CPT)	C315	87-012-275-080		C-CAP,U 1200P-50 K B GRM
	87-A40-673-090		DIODE,D10XB20	C316	87-012-275-080		C-CAP,U 1200P-50 K B GRM
	87-010-788-080		DIODE,1N4003 LES	C321	87-A10-828-080		C-CAP,U 0.33-6.3 K B
	87-A40-646-010		DIODE,FMB-G16L	C322	87-A10-828-080		C-CAP,U 0.33-6.3 K B
	87-A40-747-080		ZENER,UZ5.1BSB	C324	87-A12-071-080		CAP,E 47-25 SMG
	87-A40-749-080		ZENER,UZ5.6BSB	C325	87-A12-057-080		CAP,E 330-6.3 SMG
	87-A40-270-080		C-DIODE,MC2838	C327	87-A12-090-080		CAP,E 4.7-50 SMG
	87-A40-269-080		C-DIODE,MC2836	C328	87-A12-090-080		CAP,E 4.7-50 SMG
	87-A40-764-080		ZENER,UZ10BSC	C332	87-A10-262-080		C-CAP,U 1-10 Z F
	87-A40-488-080		DIODE,1SS244	C335	87-A12-087-080		CAP,E 1-50 SMG
	87-A40-739-080		ZENER,UZ2.7BSA	C336	87-A12-087-080		CAP,E 1-50 SMG
	87-A40-748-080		ZENER,UZ5.6BSA	C337	87-010-831-080		C-CAP,U 0.1-16 Z F
	87-A40-769-080		ZENER,UZ18BSB	C339	87-010-831-080		C-CAP,U 0.1-16 Z F
	87-A40-802-080		ZENER,UZ5.1BSC	C340	87-010-831-080		C-CAP,U 0.1-16 Z F
	87-A40-781-080		ZENER,UZ36BSA	C351	87-A10-039-080		C-CAP,U 470P-50 J CH
	87-A40-553-080		DIODE,1N4003 LES	C352	87-A10-039-080		C-CAP,U 470P-50 J CH
	87-A40-745-080		ZENER,UZ4.7BSA	C354	87-010-175-080		C-CAP,S 560P-50 J SL
	87-A40-530-080		DIODE,RB721Q-40	C355	87-012-274-080		C-CAP,U 1000P-50 K B
MAIN C.B				C356	87-A12-071-080		CAP,E 47-25 SMG
				C357	87-012-286-080		CAP,U 0.01-25
				C358	87-012-279-080		C-CAP,U 2700P-50 B
				C359	87-012-279-080		C-CAP,U 2700P-50 B
				C360	87-012-279-080		C-CAP,U 2700P-50 B
				C363	87-A12-361-080		CAP,M 5600P-100 J CP
				C370	87-010-831-080		C-CAP,U 0.1-16 Z F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C373	87-A10-794-080		C-CAP,U 0.15-16 Z F	C638	87-A12-376-080		CAP,M 0.1-100 J CP
C374	87-A10-794-080		C-CAP,U 0.15-16 Z F	C639	87-A12-091-080		CAP,E 10-50 SMG
C378	87-010-831-080		C-CAP,U 0.1-16 Z F	C641	87-A12-085-080		CAP,E 0.33-50 SMG
C379	87-A12-069-080		CAP,E 22-25 SMG	C642	87-A12-085-080		CAP,E 0.33-50 SMG
C380	87-A12-069-080		CAP,E 22-25 SMG	C643	87-010-831-080		C-CAP,U 0.1-16F
C381	87-012-286-080		CAP,U 0.01-25	C644	87-A12-087-080		CAP,E 1-50 SMG
C382	87-012-176-080		C-CAP,U 15P-50 CH	C647	87-A12-088-080		CAP,E 2.2-50 SMG
C383	87-012-286-080		CAP,U 0.01-25	C648	87-A12-088-080		CAP,E 2.2-50 SMG
C384	87-A12-088-080		CAP,E 2.2-50 SMG	C671	87-012-195-080		C-CAP,U 100P-50CH
C386	87-010-831-080		C-CAP,U 0.1-16 Z F	C672	87-012-195-080		C-CAP,U 100P-50CH
C387	87-012-335-080		C-CAP,U 270P-50 J SL	C673	87-012-286-080		CAP,U 0.01-25
C388	87-012-199-080		C-CAP,U 220P-50 J CH	C677	87-A12-085-080		CAP,E 0.33-50 SMG
C391	87-012-337-080		C-CAP,U 56P-50 J CH GRM	C678	87-A12-085-080		CAP,E 0.33-50 SMG
C392	87-012-337-080		C-CAP,U 56P-50 J CH GRM	C679	87-010-831-080		C-CAP,U 0.1-16 Z F
C393	87-012-337-080		C-CAP,U 56P-50 J CH GRM	C680	87-012-286-080		C-CAP,U 0.01-25
C394	87-012-337-080		C-CAP,U 56P-50 J CH GRM	C682	87-010-831-080		C-CAP,U 0.1-16 Z F
C501	87-A12-062-080		CAP,E 100-10 SMG	C698	87-012-172-080		C-CAP,U 10P-50 D CH
C502	87-010-831-080		C-CAP,U 0.1-16 Z F	C699	87-012-195-080		C-CAP,U 100P-50CH
C503	87-A10-353-080		C-CAP,U 0.22-10KB	C771	87-A12-062-080		CAP,E 100-10 SMG
C504	87-A10-353-080		C-CAP,U 0.22-10KB	C772	87-012-286-080		CAP,U 0.01-25
C505	87-A10-025-080		C-CAP,U 0.22-16Z F	C779	87-010-784-080		C-CAP,U 0.012-25 B
C506	87-012-280-080		CAP,U 3300P-50	C780	87-010-784-080		C-CAP,U 0.012-25 B
C507	87-010-177-080		C-CAP,S 820P-50 J SL C2012	C782	87-012-286-080		C-CAP,U 0.01-25
C508	87-A10-260-080		C-CAP,U 0.1-16 K B	C783	87-012-286-080		C-CAP,U 0.01-25
C509	87-A10-260-080		C-CAP,U 0.1-16 K B	C784	87-012-286-080		C-CAP,U 0.01-25
C510	87-012-280-080		CAP,U 3300P-50	C785	87-012-286-080		C-CAP,U 0.01-25
C511	87-010-177-080		C-CAP,S 820P-50 J SL C2012	C786	87-012-286-080		C-CAP,U 0.01-25
C512	87-A10-025-080		C-CAP,U 0.22-16 Z F	C788	87-012-167-080		C-CAP,U 5P-50 C CH
C513	87-A12-083-080		CAP,E 0.1-50 SMG	C789	87-016-116-080		C-CAP,U 0.015-25 J B CB
C514	87-A12-061-080		CAP,E 47-10 SMG	C790	87-016-116-080		C-CAP,U 0.015-25 J B CB
C515	87-A12-087-080		CAP,E 1-50 SMG	C791	87-010-831-080		C-CAP,U 0.1-16F
C516	87-A12-087-080		CAP,E 1-50 SMG	C792	87-012-286-080		C-CAP,U 0.01-25
C517	87-012-279-080		C-CAP,U 2700P-50 B	C793	87-A12-090-080		CAP,E 4.7-50 SMG
C518	87-012-279-080		C-CAP,U 2700P-50 B	C795	87-012-286-080		C-CAP,U 0.01-25
C531	87-A12-091-080		CAP,E 10-50 SMG	C796	87-012-286-080		C-CAP,U 0.01-25
C532	87-010-831-080		C-CAP,U 0.1-16 Z F	C797	87-A12-091-080		CAP,E 10-50 SMG
C533	87-010-831-080		C-CAP,U 0.1-16 Z F	C798	87-012-286-080		C-CAP,U 0.01-25
C534	87-012-199-080		C-CAP,U 220P-50 J CH	C799	87-A12-065-080		CAP,E 33-16 SMG
C535	87-012-274-080		C-CAP,U 1000P-50 K B	C800	87-010-829-080		C-CAP,U 0.047-16 F
C536	87-010-831-080		C-CAP,U 0.1-16 Z F	C801	87-A12-089-080		CAP,E 3.3-50 SMG
C537	87-012-188-080		C-CAP,U 47P-50 CH	C802	87-010-829-080		C-CAP,U 0.047-16 F
C538	87-012-188-080		C-CAP,U 47P-50 CH	C803	87-010-787-080		C-CAP,U 0.022-25 B
C539	87-012-188-080		C-CAP,U 47P-50 CH	C804	87-A12-062-080		CAP,E 100-10 SMG
C541	87-012-274-080		C-CAP,U 1000P-50 K B	C807	87-A12-086-080		CAP,E 0.47-50 SMG
C609	87-012-277-080		C-CAP,U 1800P-50 B	C808	87-A12-087-080		CAP,E 1-50 SMG
C610	87-012-277-080		C-CAP,U 1800P-50 B	C809	87-A12-087-080		CAP,E 1-50 SMG
C611	87-010-956-080		C-CAP,S 0.068-25B	C810	87-010-831-080		C-CAP,U 0.1-16F
C612	87-A11-070-080		C-CAP,U 0.033-16 K B	C811	87-A12-089-080		CAP,E 3.3-50 SMG
C613	87-012-286-080		C-CAP,U 0.01-25	C812	87-A12-089-080		CAP,E 3.3-50 SMG
C614	87-012-286-080		C-CAP,U 0.01-25	C814	87-012-286-080		C-CAP,U 0.01-25
C615	87-A10-260-080		C-CAP,U 0.1-16 K B	C815	87-A12-086-080		CAP,E 0.47-50 SMG
C616	87-A10-260-080		C-CAP,U 0.1-16 K B	C816	87-A12-086-080		CAP,E 0.47-50 SMG
C617	87-010-829-080		C-CAP,U 0.047-16	C821	87-A12-091-080		CAP,E 10-50 SMG
C618	87-A12-087-080		CAP,E 1-50 SMG	C823	87-010-177-080		C-CAP,S 820P-50 J SL C2012
C619	87-A12-062-080		CAP,E 100-10 SMG	C824	87-A12-090-080		CAP,E 4.7-50 SMG
C620	87-012-280-080		C-CAP,U 3300P-50 K B	C825	87-A10-504-080		C-CAP,U 0.047-16 K B
C623	87-A12-087-080		CAP,E 1-50 SMG	C842	87-012-286-080		C-CAP,U 0.01-25 B
C624	87-A12-087-080		CAP,E 1-50 SMG	C844	87-012-286-080		C-CAP,U 0.01-25 B
C626	87-A12-062-080		CAP,E 100-10 SMG	C850	87-A12-071-080		CAP,E 47-25 SMG
C627	87-A12-086-080		CAP,E 0.47-50 SMG	C851	87-012-286-080		C-CAP,U 0.01-25 B
C628	87-A12-086-080		CAP,E 0.47-50 SMG	C852	87-012-286-080		C-CAP,U 0.01-25 B
C629	87-A10-504-080		C-CAP,U 0.047-16 K B	C853	87-012-286-080		C-CAP,U 0.01-25 B
C630	87-A10-504-080		C-CAP,U 0.047-16 K B	C858	87-010-831-080		C-CAP,U 0.1-16F
C631	87-012-281-080		C-CAP,U 3900P-50 B	C901	87-018-145-080		CAP,TC-U 6.8P-50 CH
C632	87-012-281-080		C-CAP,U 3900P-50 B	C904	87-012-286-080		C-CAP,U 0.01-25 B
C633	87-010-831-080		C-CAP,U 0.1-16 Z F	C905	87-012-286-080		C-CAP,U 0.01-25 B
C634	87-010-831-080		C-CAP,U 0.1-16 Z F	C907	87-012-286-080		C-CAP,U 0.01-25 B
C635	87-A12-376-080		CAP,M 0.1-100 J CP	C908	87-A10-915-080		C-CAP,U 1000P-25 J CH
C636	87-A12-376-080		CAP,M 0.1-100 J CP	C909	87-012-286-080		C-CAP,U 0.01-25 B
C637	87-A12-376-080		CAP,M 0.1-100 J CP	C910	87-012-174-080		C-CAP,U 12P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C911	87-012-170-080		C-CAP,U 8P-50 D CH	L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)
C912	87-012-195-080		C-CAP,U 100P-50 J CH	L906	88-ZA1-603-010		COIL,FM-OSC-U 2G
C913	87-012-286-080		C-CAP,U 0.01-25 B	L951	8A-NF8-667-010		COIL,AM PACK 4 (TOK)
C914	87-012-166-080		C-CAP,U 4P-50 C CH	R151	87-A00-879-050		RES,M/F 270-1W J
C915	87-012-174-080		C-CAP,U 12P-50 CH	R152	87-A00-879-050		RES,M/F 270-1W J
C916	87-012-180-080		C-CAP,U 22P-50 CH	R153	87-A00-879-050		RES,M/F 270-1W J
C917	87-012-186-080		C-CAP,U 39P-50 CH	R154	87-A00-879-050		RES,M/F 270-1W J
C918	87-A10-039-080		C-CAP,U 470P-50 J CH	R790	87-012-286-080		C-CAP,U 0.01-25 B
C921	87-012-195-080		C-CAP,U 100P-50 CH	R991	87-012-195-080		C-CAP,U 100P-50CH
C922	87-012-174-080		C-CAP,U 12P-50 CH	R993	87-012-195-080		C-CAP,U 100P-50CH
C959	87-010-831-080		C-CAP,U 0.1-16F	R995	87-012-195-080		C-CAP,U 100P-50CH
C960	87-010-831-080		C-CAP,U 0.1-16F	SFR351	87-024-436-080		SFR,47K H RH063MC
C961	87-012-167-080		C-CAP,U 5P-50 CH	SFR352	87-024-436-080		SFR,47K H RH063MC
C963	87-015-785-080		C-CAP,0.1-25 Z F C3216	WH11	87-A91-179-010		HLDR,WIRE 2.5-11P
C971	87-A12-067-080		CAP,E 330-16 SMG	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
C972	87-A12-090-080		CAP,E 4.7-50 SMG				
C973	87-012-286-080		C-CAP,U 0.01-25	FRONT C.B			
C974	87-012-286-080		C-CAP,U 0.01-25				
C979	87-012-195-080		C-CAP,U 100P-50CH	C113	87-010-788-080		C-CAP,U 0.33-25 Z F
C981	87-A12-071-080		CAP,E 47-25 SMG	C201	87-016-083-080		C-CAP,S 0.15-16 K R
				C202	87-012-270-080		CAP,U 470P-50 K B
C982	87-010-831-080		C-CAP,U 0.1-16F	C207	87-010-590-080		C-CAP,S 0.015-16 K R
C983	87-012-286-080		C-CAP,U 0.01-25	C301	87-012-180-080		C-CAP,U 22P-50 J CH
C984	87-012-286-080		C-CAP,U 0.01-25				
C987	87-012-286-080		C-CAP,U 0.01-25	C302	87-012-180-080		C-CAP,U 22P-50 J CH
C991	87-012-176-080		C-CAP,U 15P-50 CH	C303	87-012-180-080		C-CAP,U 22P-50 J CH
				C304	87-012-180-080		C-CAP,U 22P-50 J CH
C992	87-012-176-080		C-CAP,U 15P-50 CH	C305	87-012-180-080		C-CAP,U 22P-50 J CH
C993	87-012-274-080		C-CAP,U 1000P-50B	C306	87-010-759-080		C-CAP,U 0.1-25 Z F
C995	87-012-274-080		C-CAP,U 1000P-50B				
C997	87-010-831-080		C-CAP,U 0.1-16F	C307	87-A12-317-080		C-CAP,U 0.1-50 Z F
C998	87-A12-071-080		CAP,E 47-25 SMG	C351	87-012-188-080		C-CAP,U 47P-50 J CH
				C352	87-012-188-080		C-CAP,U 47P-50 J CH
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C353	87-012-188-080		C-CAP,U 47P-50 J CH
CF831	87-008-261-010		FILTER,CF SFE10.7MA5-A	C354	87-012-188-080		C-CAP,U 47P-50 J CH
CF832	87-008-261-010		FILTER,CF SFE10.7MA5-A				
CN11	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C355	87-012-188-080		C-CAP,U 47P-50 J CH
CN12	87-A61-108-010		CONN,5P V TID-A	C383	87-010-759-080		C-CAP,U 0.1-25 Z F
				C384	87-010-759-080		C-CAP,U 0.1-25 Z F
CN131	87-A60-619-010		CONN,2P V 2MM JMT	C385	87-010-759-080		C-CAP,U 0.1-25 Z F
CN132	87-A60-619-010		CONN,2P V 2MM JMT	C386	87-010-759-080		C-CAP,U 0.1-25 Z F
CN301	87-A60-620-010		CONN,3P V 2MM JMT				
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C387	87-010-759-080		C-CAP,U 0.1-25 Z F
CN601	87-099-719-010		CONN,30P TYK-B(X)	C601	87-012-282-080		CAP,U 4700P-50 K B
				C602	87-010-405-040		CAP,E 10-50 M 11L SME
CN602	87-099-194-010		CONN,6P V BLK 6216	C605	87-A12-317-080		C-CAP,U 0.1-50 Z F
CN604	87-099-749-010		CONN,9P V 9604SC	C606	87-010-112-040		CAP,E 100-16 M 11L SME
CN607	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3				
CNA11	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C607	87-010-759-080		C-CAP,U 0.1-25 Z F
CNA12	8B-NF7-618-010		CONN ASSY,3P V PANO	C611	87-012-274-080		C-CAP,U 1000P-50 K B
				C612	87-010-546-040		CAP,E 0.33-50 M 11L SME
CNA101	8B-NF6-660-010		CONN ASSY,2P V PANO(250)	C613	87-012-191-080		C-CAP,U 68P-50 J CH
D902	87-A40-128-080		C-VARI-CAP,HVA202A	C614	87-012-274-080		C-CAP,U 1000P-50 K B
D903	87-A40-128-080		C-VARI-CAP,HVA202A				
FB501	87-008-372-080		FILTER, EMI BL 01 RN1	C652	87-012-279-080		C-CAP,U 2700P-50 K B GRM
FFC602	88-906-251-110		FF-CABLE,6P 1.25	C653	87-010-785-080		C-CAP,U 0.015-25 K B GRM
				C701	87-010-406-040		CAP,E 22-50 M 11L SME
FFC604	88-909-141-110		FF-CABLE,9P 1.25 140MM	C901	87-010-759-080		C-CAP,U 0.1-25 Z F
J101	87-A60-929-010		JACK,DIA6.3 BLK ST W/S TAI	C902	87-012-335-080		C-CAP,U 270P-50 J SL
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)				
J104	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C903	87-012-195-080		C-CAP,U 100P-50 J CH
J601	87-A60-885-010		JACK,PIN 6P R/W MSC	C904	87-010-596-080		C-CAP,S 0.047-16 K R C2012
				C905	87-012-176-080		C-CAP,U 15P-50 J CH
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C906	87-A10-189-040		CAP,E 220-10 M 5L
L101	87-A50-610-010		COIL,1UH K(MDEC)	C908	87-012-274-080		C-CAP,U 1000P-50 K B
L102	87-A50-610-010		COIL,1UH K(MDEC)				
L121	87-A50-610-010		COIL,1UH K(MDEC)	C909	87-012-286-080		C-CAP,U 0.01-25 K B
L122	87-A50-610-010		COIL,1UH K(MDEC)	C910	87-012-270-080		C-CAP,U 470P-50 K B
				C911	87-012-199-080		C-CAP,U 220P-50 J CH
L301	87-A50-625-010		COIL,TRAP 85KHZ (SANWA)	C912	87-012-199-080		C-CAP,U 220P-50 J CH
L302	87-A50-625-010		COIL,TRAP 85KHZ (SANWA)	C913	87-012-199-080		C-CAP,U 220P-50 J CH
L351	87-007-342-010		COIL,OSC 85KHZ BIAS				
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C914	87-012-199-080		C-CAP,U 220P-50 J CH
L802	87-A91-551-010		FLTR,PCFUZH-450 L(TOK)	C915	87-012-199-080		C-CAP,U 220P-50 J CH
				C916	87-012-199-080		C-CAP,U 220P-50 J CH
L811	87-005-847-080		COIL,2.2UH(CECS)	C917	87-012-199-080		C-CAP,U 220P-50 J CH
L832	87-005-847-080		COIL,2.2UH(CECS)	C918	87-012-199-080		C-CAP,U 220P-50 J CH
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G				
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G	C919	87-012-199-080		C-CAP,U 220P-50 J CH
L904	87-005-847-080		COIL,2.2UH(CECS)	C920	87-012-199-080		C-CAP,U 220P-50 J CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C921	87-012-270-080		C-CAP,U 470P-50 K B	C592	87-012-195-080		C-CAP,U 100P-50 J CH
C923	87-010-759-080		C-CAP,U 0.1-25 Z F	C593	87-012-195-080		C-CAP,U 100P-50 J CH
C925	87-A12-317-080		C-CAP,U 0.1-50 Z F	C802	87-012-197-080		C-CAP,U 150P-50 J CH
C926	87-010-759-080		C-CAP,U 0.1-25 Z F	C804	87-012-283-080		C-CAP,U 5600P-50 K B
C927	87-010-759-080		C-CAP,U 0.1-25 Z F	C805	87-010-831-080		C-CAP,U 0.1-16 Z F
C928	87-010-408-040		CAP,E 47-50 M 11L SME	C806	87-010-401-040		CAP,E 1-50 M 11L SME
C929	87-012-369-080		C-CAP,S 0.047-50 Z F	C808	87-010-831-080		C-CAP,U 0.1-16 Z F
C931	87-010-404-040		CAP,E 4.7-50 M 11L SME	C809	87-012-198-080		C-CAP,U 180P-50 J CH
C933	87-010-404-040		CAP,E 4.7-50 M 11L SME	C810	87-010-263-040		CAP,E 100-10 M 11L SME
C991	87-010-405-040		CAP,E 10-50 M 11L SME	C811	87-010-545-040		CAP,E 0.22-50 M 11L SME
C992	87-012-336-080		C-CAP,U 330P-50 J SL	C812	87-010-405-040		CAP,E 10-50 M 11L SME
CN101	87-099-720-010		CONN,30P BLK TYK-B(P)	CN501	8B-NF6-606-010		CONN ASSY,6P DADA
CN104	87-099-017-010		CONN,15P V BLK 6216	CN502	8B-NF6-607-010		CONN ASSY,7P DADA
CN151	87-099-196-010		CONN,8P V BLK 6216	CN503	8B-NF6-606-010		CONN ASSY,6P DADA
CN801	87-099-212-010		CONN,5P V BLK 6216	CN802	87-099-212-010		CONN,5P V BLK 6216
FB301	87-008-372-080		FLTR,EMI BL01 RN1	FB501	87-008-372-080		FLTR,EMI BL01 RN1
FB601	87-008-372-080		FLTR,EMI BL01 RN1	FB801	87-008-372-080		FLTR,EMI BL01 RN1
FFC104	88-915-181-110		FF-CABLE,15P 1.25 180MM	L801	87-A50-093-010		COIL,CLOCK OSC 5.76MHZ
FFC151	88-908-301-110		FF-CABLE,8P 1.25	L802	87-005-847-080		COIL,2.2UH K CBCS
FFC801	88-905-061-110		FF-CABLE,5P 1.25 60MM	LED501	87-A40-496-040		LED,SLR-342PCT31 GRN
FL901	8B-NF7-621-010		FL,BJ815GNK	LED502	87-A40-496-040		LED,SLR-342PCT31 GRN
J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM	LED503	87-A40-496-040		LED,SLR-342PCT31 GRN
J602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM	LED511	87-A40-619-040		LED,SLR-56PT-T31-W GRN
L901	87-A50-657-010		COIL,CLK 9.43MHZ (TOKO) 7KLY	LED512	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED201	87-A40-317-080		LED,SLR-342VCT31 RED	LED513	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED401	87-A40-268-080		LED,SLH-56DCT31 ORN	LED514	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED402	87-A40-268-080		LED,SLH-56DCT31 ORN	LED515	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED403	87-A40-268-080		LED,SLH-56DCT31 ORN	LED516	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED404	87-A40-268-080		LED,SLH-56DCT31 ORN	LED517	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED405	87-A40-268-080		LED,SLH-56DCT31 ORN	LED518	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S301	87-A90-164-080		SW,TACT SKQNAB(N)	LED521	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S302	87-A90-164-080		SW,TACT SKQNAB(N)	LED522	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S303	87-A90-164-080		SW,TACT SKQNAB(N)	LED523	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S304	87-A90-164-080		SW,TACT SKQNAB(N)	LED524	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S305	87-A90-164-080		SW,TACT SKQNAB(N)	LED525	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S306	87-A90-164-080		SW,TACT SKQNAB(N)	LED526	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S307	87-A90-164-080		SW,TACT SKQNAB(N)	LED527	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S308	87-A90-164-080		SW,TACT SKQNAB(N)	LED528	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S309	87-A90-164-080		SW,TACT SKQNAB(N)	S531	87-A90-164-080		SW,TACT SKQNAB(N)
S351	8B-NF6-218-010		HLDL,TS CRAMP	S532	87-A90-164-080		SW,TACT SKQNAB(N)
S352	8B-NF6-218-010		HLDL,TS CRAMP	S533	87-A90-164-080		SW,TACT SKQNAB(N)
S353	8B-NF6-218-010		HLDL,TS CRAMP	S534	87-A90-164-080		SW,TACT SKQNAB(N)
S354	8B-NF6-218-010		HLDL,TS CRAMP	S535	87-A90-164-080		SW,TACT SKQNAB(N)
S355	8B-NF6-218-010		HLDL,TS CRAMP	S536	87-A90-164-080		SW,TACT SKQNAB(N)
S356	8B-NF6-218-010		HLDL,TS CRAMP	S537	87-A90-164-080		SW,TACT SKQNAB(N)
S357	8B-NF6-218-010		HLDL,TS CRAMP	S538	87-A90-164-080		SW,TACT SKQNAB(N)
S358	8B-NF6-218-010		HLDL,TS CRAMP	S539	87-A90-164-080		SW,TACT SKQNAB(N)
KEY C.B				S541	87-A90-164-080		SW,TACT SKQNAB(N)
				S542	87-A90-164-080		SW,TACT SKQNAB(N)
				S543	87-A90-164-080		SW,TACT SKQNAB(N)
C501	87-010-759-080		C-CAP,U 0.1-25 Z F	S544	87-A90-164-080		SW,TACT SKQNAB(N)
C502	87-A12-317-080		C-CAP,U 0.1-50 Z F	S545	87-A90-164-080		SW,TACT SKQNAB(N)
C531	87-012-180-080		C-CAP,U 22P-50 J CH	S546	87-A90-164-080		SW,TACT SKQNAB(N)
C532	87-012-180-080		C-CAP,U 22P-50 J CH	S547	87-A90-164-080		SW,TACT SKQNAB(N)
C533	87-012-180-080		C-CAP,U 22P-50 J CH	S548	87-A90-164-080		SW,TACT SKQNAB(N)
C534	87-012-180-080		C-CAP,U 22P-50 J CH	S549	87-A90-164-080		SW,TACT SKQNAB(N)
C535	87-012-180-080		C-CAP,U 22P-50 J CH	S571	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C536	87-012-180-080		C-CAP,U 22P-50 J CH	S572	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C537	87-012-180-080		C-CAP,U 22P-50 J CH	S573	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C571	87-012-188-080		C-CAP,U 47P-50 J CH	S574	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C572	87-012-188-080		C-CAP,U 47P-50 J CH	S575	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C573	87-012-188-080		C-CAP,U 47P-50 J CH	S576	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C574	87-012-188-080		C-CAP,U 47P-50 J CH	S577	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C575	87-012-188-080		C-CAP,U 47P-50 J CH	S578	8B-NF6-219-010		HLDL,TS CRAMP SLNT
C576	87-012-188-080		C-CAP,U 47P-50 J CH	S581	87-A92-114-010		SW,RTRY EC12E24504 30MM
C577	87-012-188-080		C-CAP,U 47P-50 J CH	S591	87-A92-113-010		SW,RTRY EC12E12504 30MM
C581	87-012-274-080		C-CAP,U 1000P-50 K B				
C582	87-012-195-080		C-CAP,U 100P-50 J CH				
C583	87-012-195-080		C-CAP,U 100P-50 J CH				
C591	87-012-274-080		C-CAP,U 1000P-50 K B				

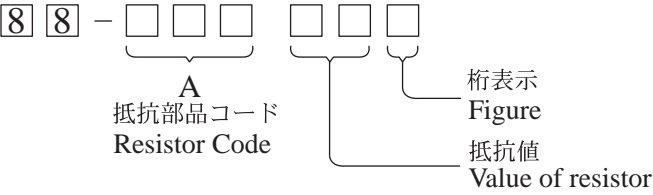
AMP 3M C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C1	87-010-759-080		C-CAP,U 0.1-25 Z F	C311	87-A12-092-080		CAP,E 22-50 SMG
C2	87-010-759-080		C-CAP,U 0.1-25 Z F	C312	87-A12-092-080		CAP,E 22-50 SMG
C3	87-010-759-080		C-CAP,U 0.1-25 Z F	C315	87-012-199-080		C-CAP,U 220P-50 J CH
C4	87-010-759-080		C-CAP,U 0.1-25 Z F	C316	87-012-199-080		C-CAP,U 220P-50 J CH
C15	87-010-759-080		C-CAP,U 0.1-25 Z F	C317	87-012-286-080		C-CAP,U 0.01-25 K B
C17	87-016-299-080		CAP,E 10-100 M SME	C318	87-012-286-080		C-CAP,U 0.01-25 K B
C18	87-010-866-080		CAP,E 10-63 M VX	C401	87-010-831-080		C-CAP,U 0.1-16 Z F
C101	87-012-276-080		C-CAP,U 1500P-50 K B	C402	87-010-831-080		C-CAP,U 0.1-16 Z F
C102	87-012-276-080		C-CAP,U 1500P-50 K B	C403	87-A12-091-080		CAP,E 10-50 SMG
C103	87-A12-085-080		CAP,E 0.33-50 SMG	C404	87-A12-091-080		CAP,E 10-50 SMG
C104	87-A12-085-080		CAP,E 0.33-50 SMG	C501	87-012-282-080		C-CAP,U 4700P-50 K B
C105	87-012-279-080		C-CAP,U 2700P-50 K B GRM	C502	87-012-278-080		C-CAP,U 2200P-50 K B
C106	87-012-279-080		C-CAP,U 2700P-50 K B GRM	CN101	87-099-197-010		CONN,9P V BLK 6216
C107	87-A12-090-080		CAP,E 4.7-50 SMG	CN102	87-099-043-010		CONN,2P V WHT EH
C108	87-A12-090-080		CAP,E 4.7-50 SMG	CN104	87-049-919-010		CONN,3P V WHT EH
C111	87-A12-077-080		CAP,E 33-35 SMG	R333	87-A00-258-080		RES,M/F 0.22-1W J
C112	87-A12-077-080		CAP,E 33-35 SMG	R334	87-A00-258-080		RES,M/F 0.22-1W J
C115	87-010-177-080		C-CAP,S 820P-50 J SL C2012				
C116	87-010-177-080		C-CAP,S 820P-50 J SL C2012				
C117	87-A10-596-080		C-CAP,S 100P-100 J CH	PT C.B			
C118	87-A10-596-080		C-CAP,S 100P-100 J CH	CN1	87-A61-110-010		CONN,9P V TID-A
C119	87-012-368-080		C-CAP,S 0.1-50 Z F	PT1	8B-NF6-611-010		PT,BNF-6 LH
C120	87-012-368-080		C-CAP,S 0.1-50 Z F	PT2	8B-MA6-673-010		PT,SUB BMA H (VRK)
C121	87-A10-596-080		C-CAP,S 100P-100 J CH	RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2
C122	87-A10-596-080		C-CAP,S 100P-100 J CH	S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
C141	87-012-282-080		C-CAP,U 4700P-50 K B	T1	87-A60-317-010		TERMINAL,1P MSC
C142	87-012-278-080		C-CAP,U 2200P-50 K B	T2	87-A60-317-010		TERMINAL,1P MSC
C151	87-012-286-080		C-CAP,U 0.01-25 K B				
C152	87-012-286-080		C-CAP,U 0.01-25 K B				
C161	87-010-759-080		C-CAP,U 0.1-25 Z F	DECK C.B			
CN1	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	CON502	87-099-756-010		CONN,15P H 9604S F
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	SFR1	87-024-581-010		SFR,3.3K H KVSP637A
CNA1	8B-NF6-645-010		CONN ASSY,5P TID-A(110)	SOL1	82-ZM3-627-010		SOL ASSY,27 SO
R171	87-A00-418-010		RES,M/F 0.15-3W J	SOL2	82-ZM3-627-010		SOL ASSY,27 SO
R172	87-A00-418-010		RES,M/F 0.15-3W J	SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
R173	87-A00-418-010		RES,M/F 0.15-3W J	SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
R174	87-A00-418-010		RES,M/F 0.15-3W J	SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
TH101	87-A91-042-080		C-THMS,100K 55001	SW4	87-036-110-010		SW,MICRO SPPB62
TH102	87-A91-042-080		C-THMS,100K 55001	SW5	87-036-110-010		SW,MICRO SPPB62
WH1	87-A90-459-010		HLDLR,WIRE 2.5-5P	SW6	87-036-110-010		SW,MICRO SPPB62
PANORAMA AMP C.B				SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
				SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C201	87-A12-088-080		CAP,E 2.2-50 SMG	HEAD-1 C.B			
C202	87-A12-088-080		CAP,E 2.2-50 SMG				
C203	87-A12-062-080		CAP,E 100-10 SMG	CON301	87-NF6-615-010		CONN ASSY,3P PB
C204	87-A12-062-080		CAP,E 100-10 SMG				
C207	87-012-286-080		C-CAP,U 0.01-25 K B	HEAD-2 C.B			
C208	87-012-286-080		C-CAP,U 0.01-25 K B				
C213	87-012-172-080		C-CAP,U 10P-50 D CH	CON351	87-NF6-616-010		CONN ASSY,8P RPB
C215	87-010-831-080		C-CAP,U 0.1-16 Z F				
C216	87-010-831-080		C-CAP,U 0.1-16 Z F				
C301	87-012-280-080		CAP,U 3300P-50 K B				
C302	87-012-280-080		CAP,U 3300P-50 K B				
C303	87-A12-084-080		CAP,E 0.22-50 SMG				
C304	87-A12-084-080		CAP,E 0.22-50 SMG				
C309	87-A12-089-080		CAP,E 3.3-50 SMG				
C310	87-A12-089-080		CAP,E 3.3-50 SMG				

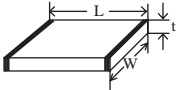
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

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 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
CSC4115BC
KTA1266GR
KTC3198GR



E C B

CC5551
2SA1980G
2SA1981Y



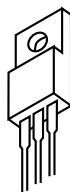
B C E

2SB1342
2SB1588
2SD1933
2SD2439



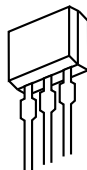
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2SK3053



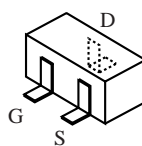
B C E

CSB1370EF

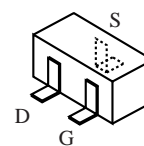


E C B

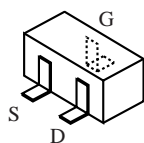
2SA933AS(R)



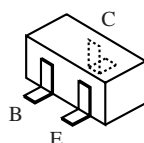
2SK2158



2SK360E

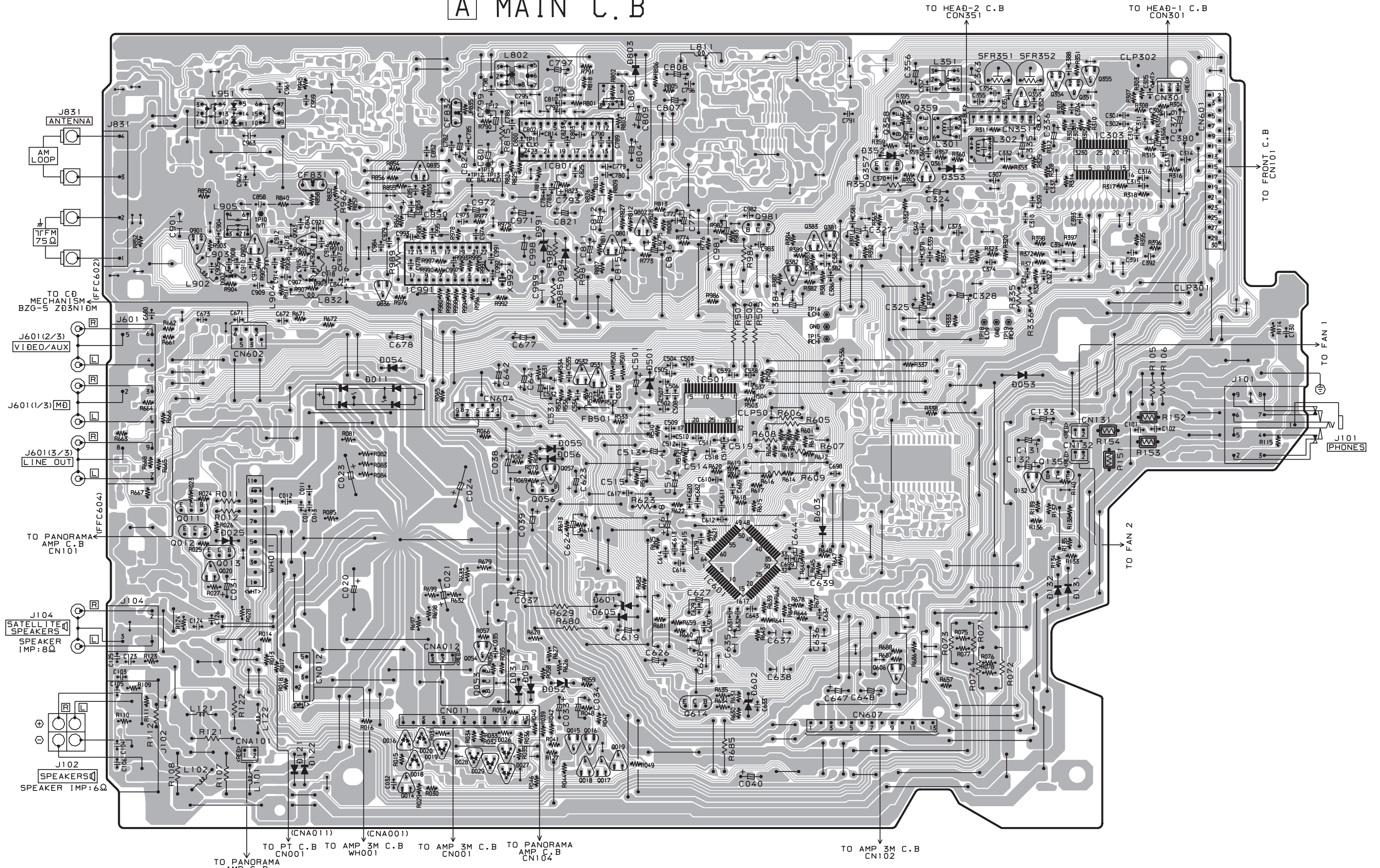


2SJ106GR

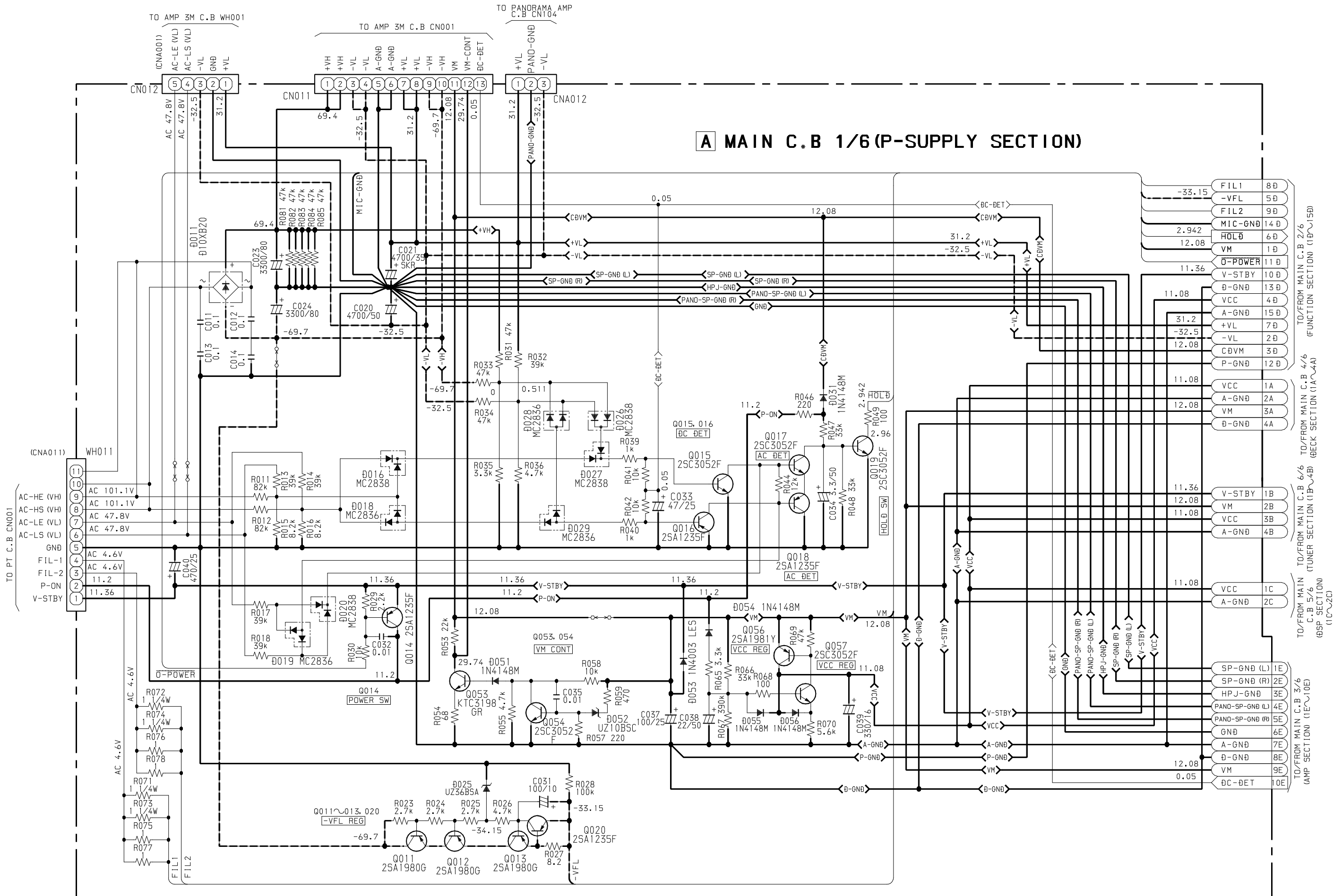


2SA1235F	KRA102S
2SC2714O	KRA104S
2SC3052F	KRA107S
2SC5345S(O)	KRC102S-RTK
CMBT5401	RT1N 144C
CMBT5551	RT1P 141C
CSD1306E	

A MAIN C.B



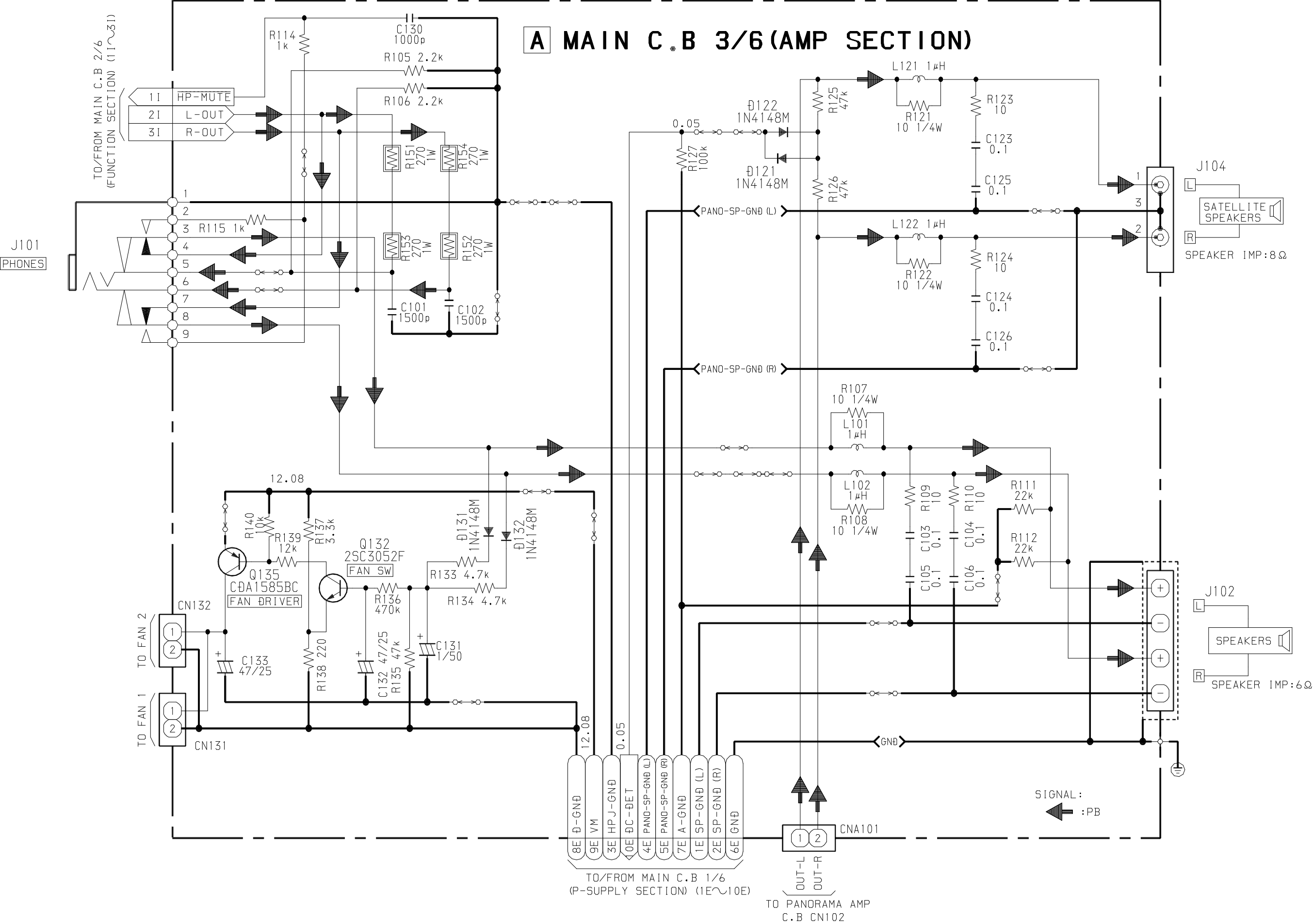
SCHEMATIC DIAGRAM-1 (MAIN: 1 / 6 <P-SUPPLY SECTION>)



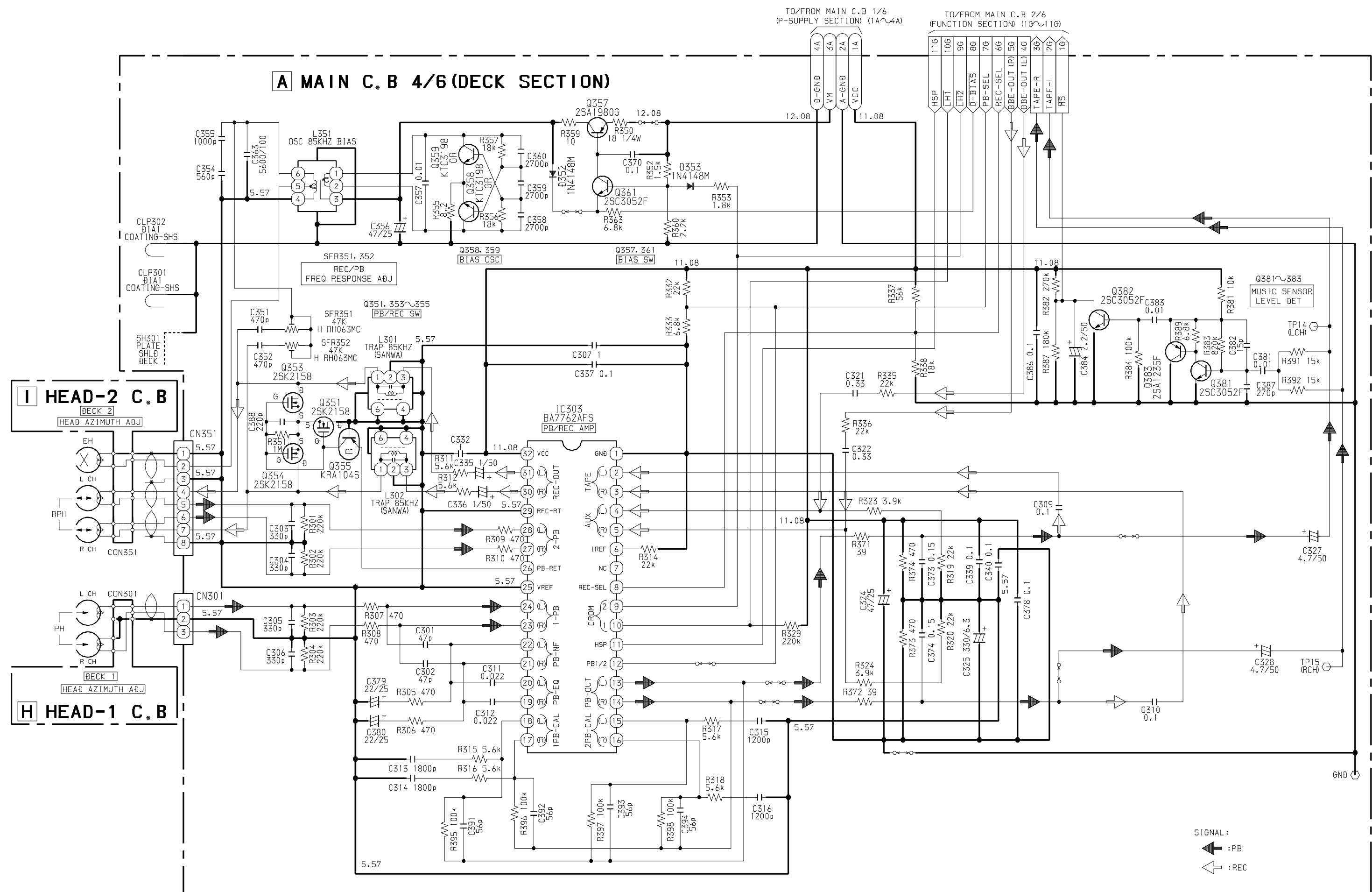
A MAIN C.B 2/6
(FUNCTION SECTION)

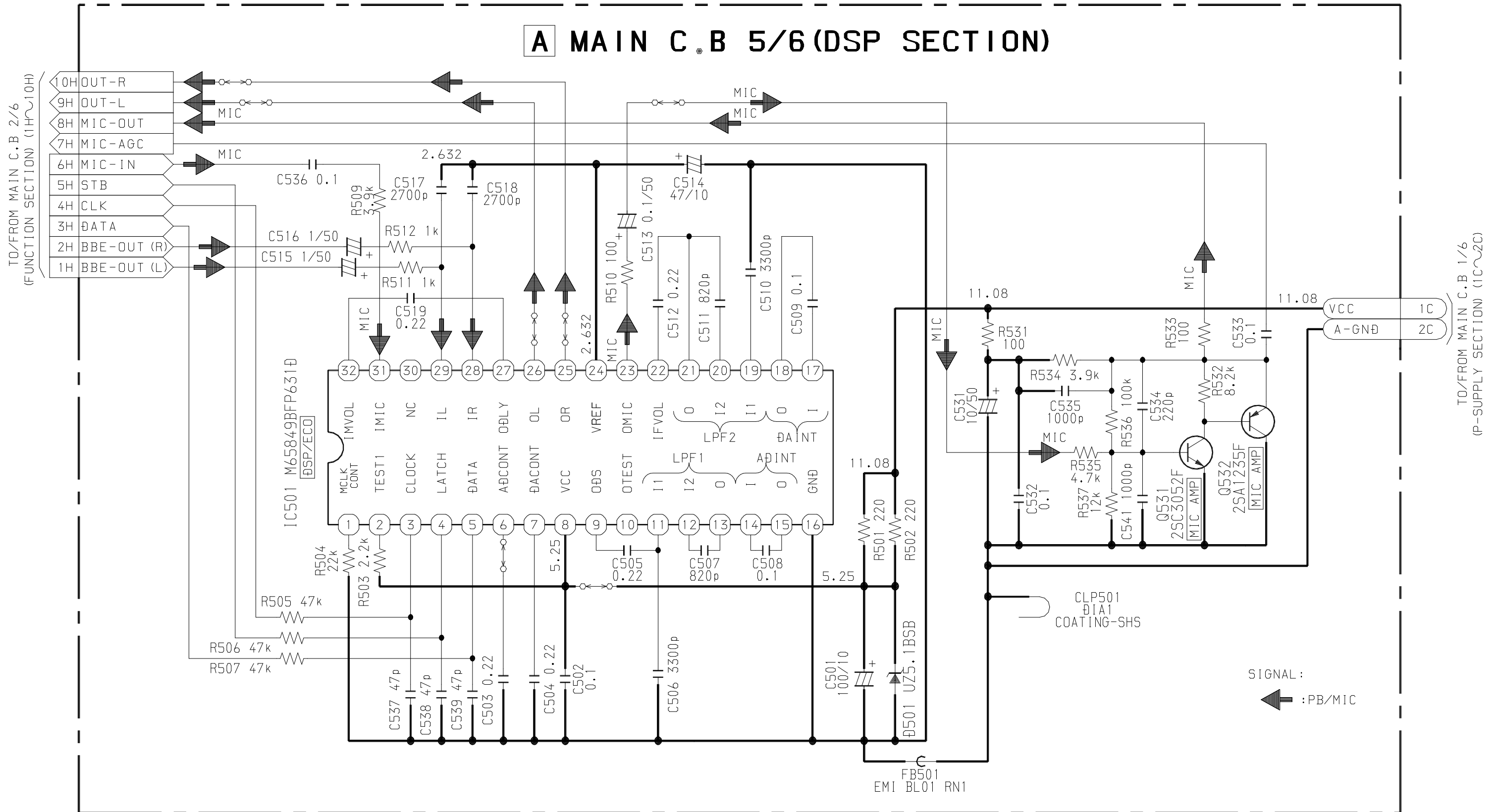


SCHEMATIC DIAGRAM – 3 (MAIN : 3/6 <AMP SECTION>)

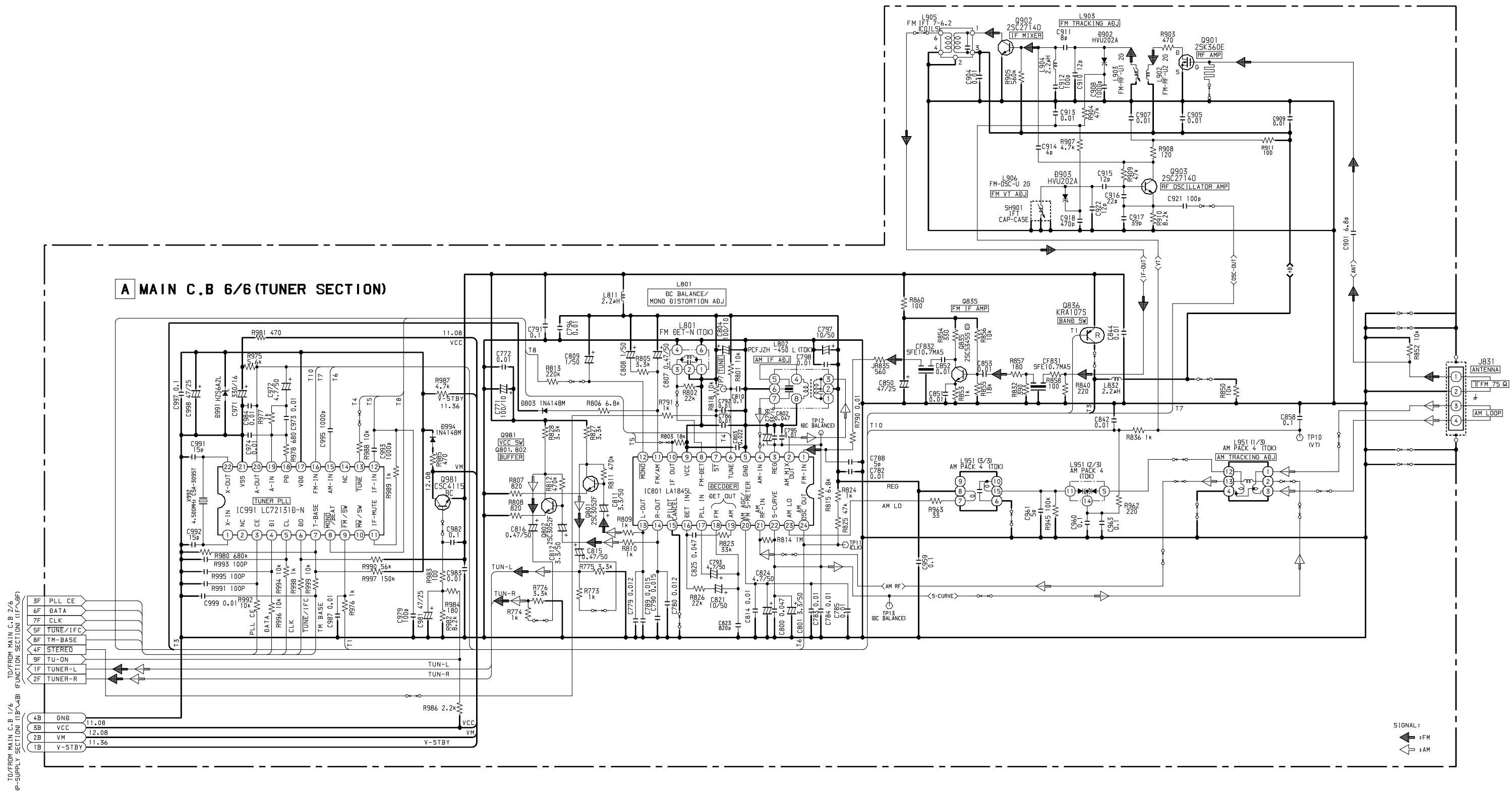


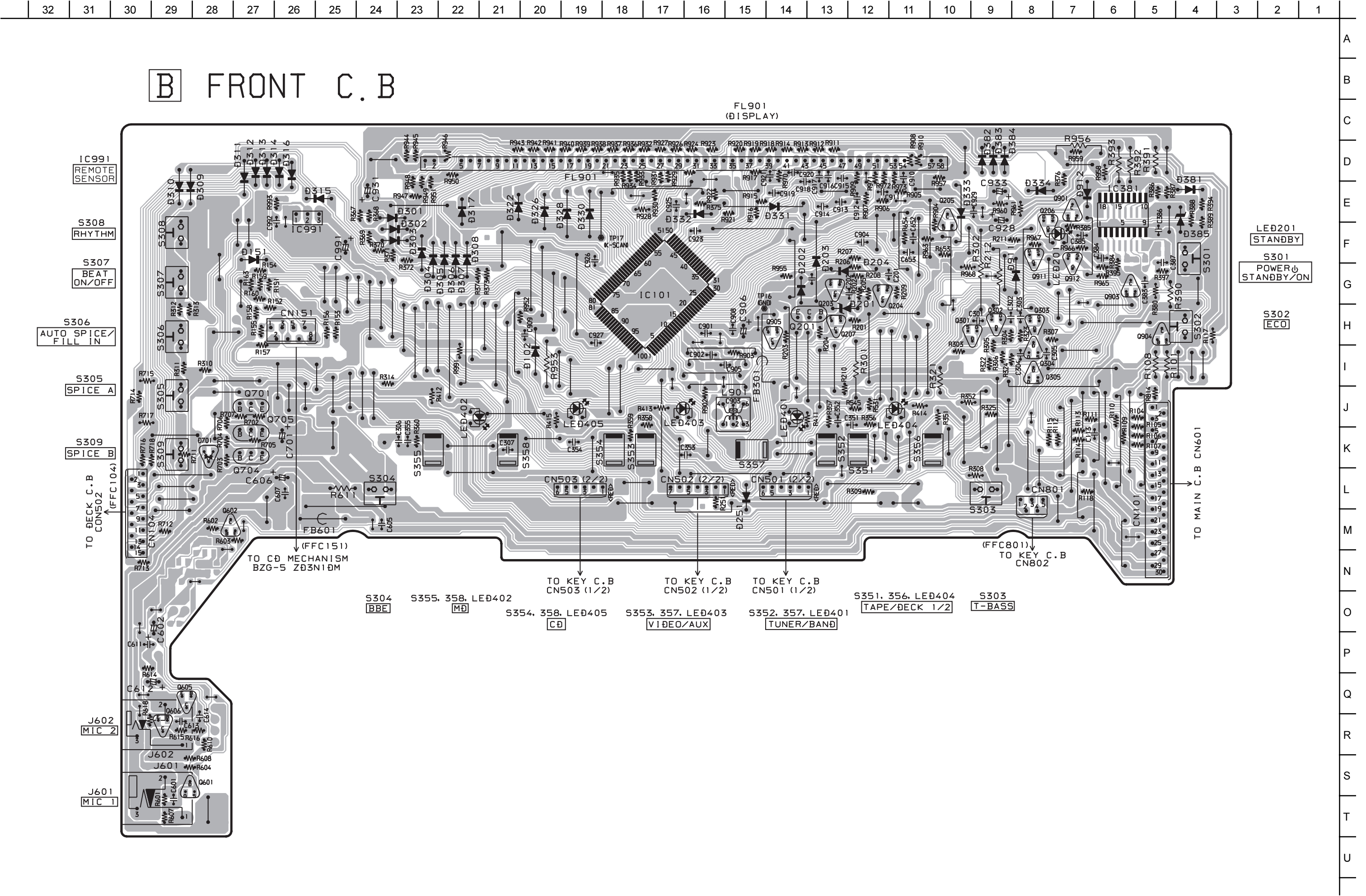
SCHEMATIC DIAGRAM – 4 (MAIN : 4 / 6 <DECK SECTION / HEAD – 1 / HEAD – 2>)

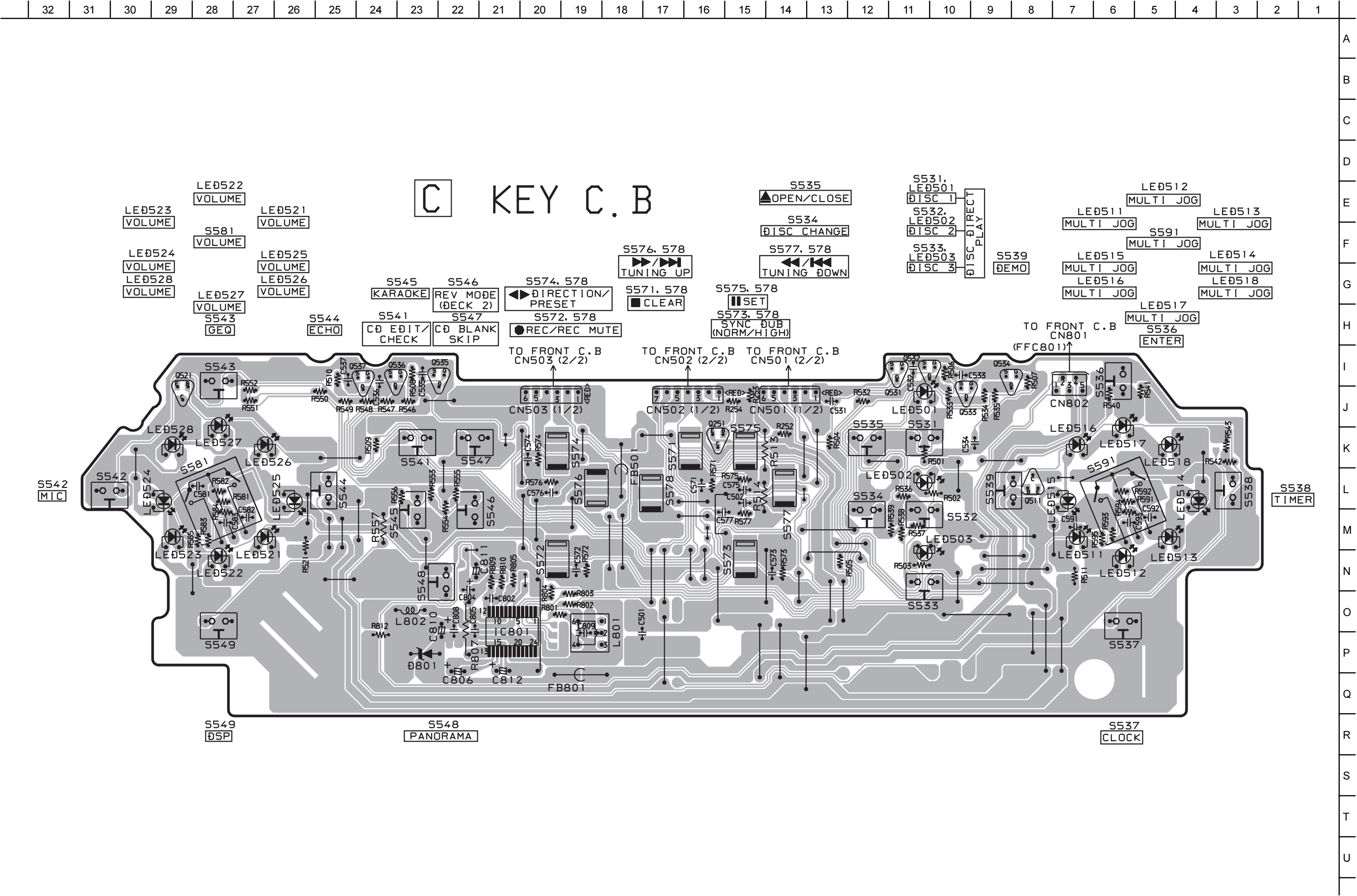




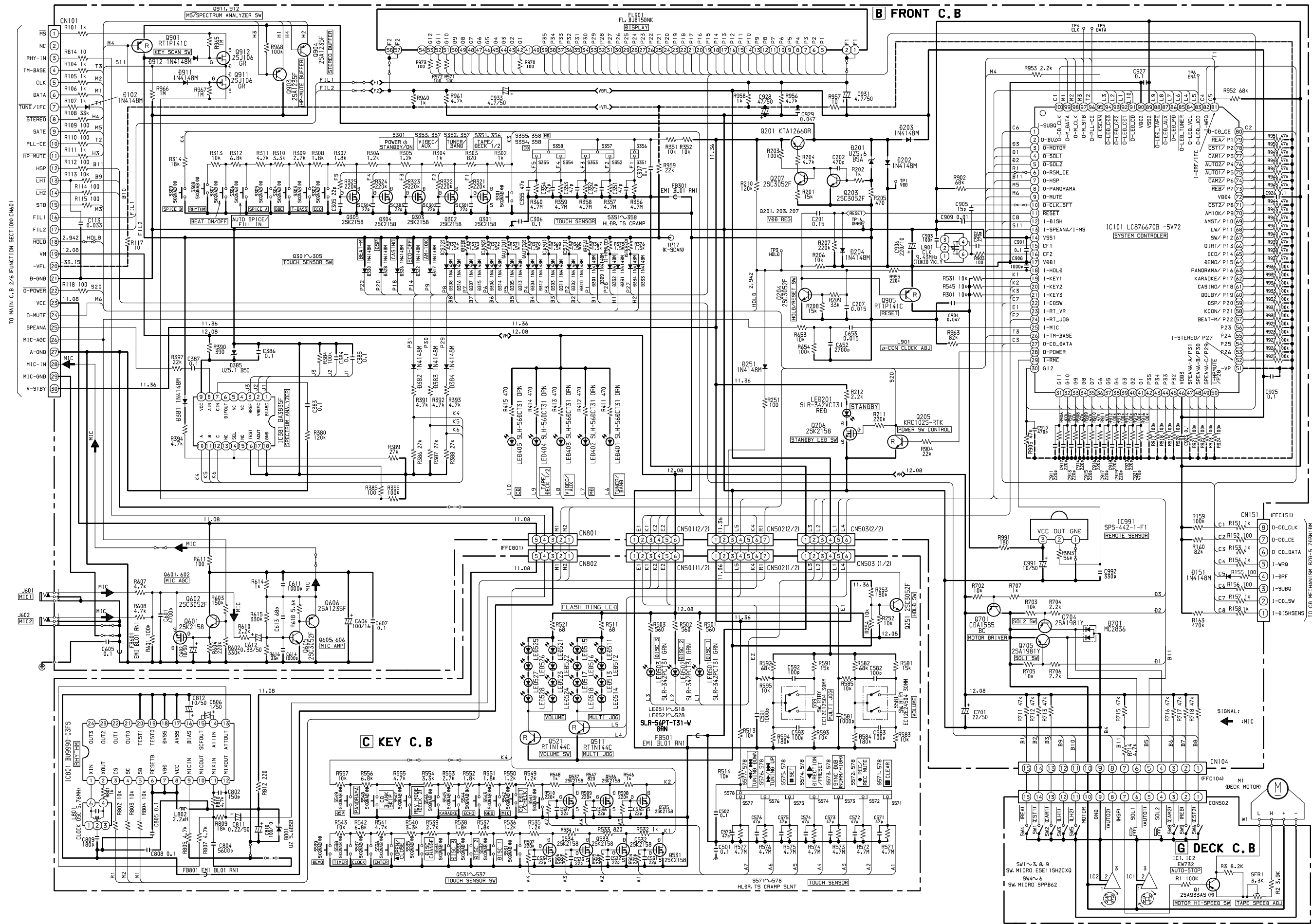
SCHEMATIC DIAGRAM-6 (MAIN:6/6 <TUNER SECTION>)

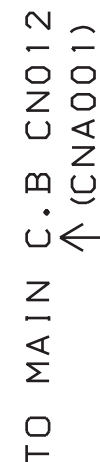




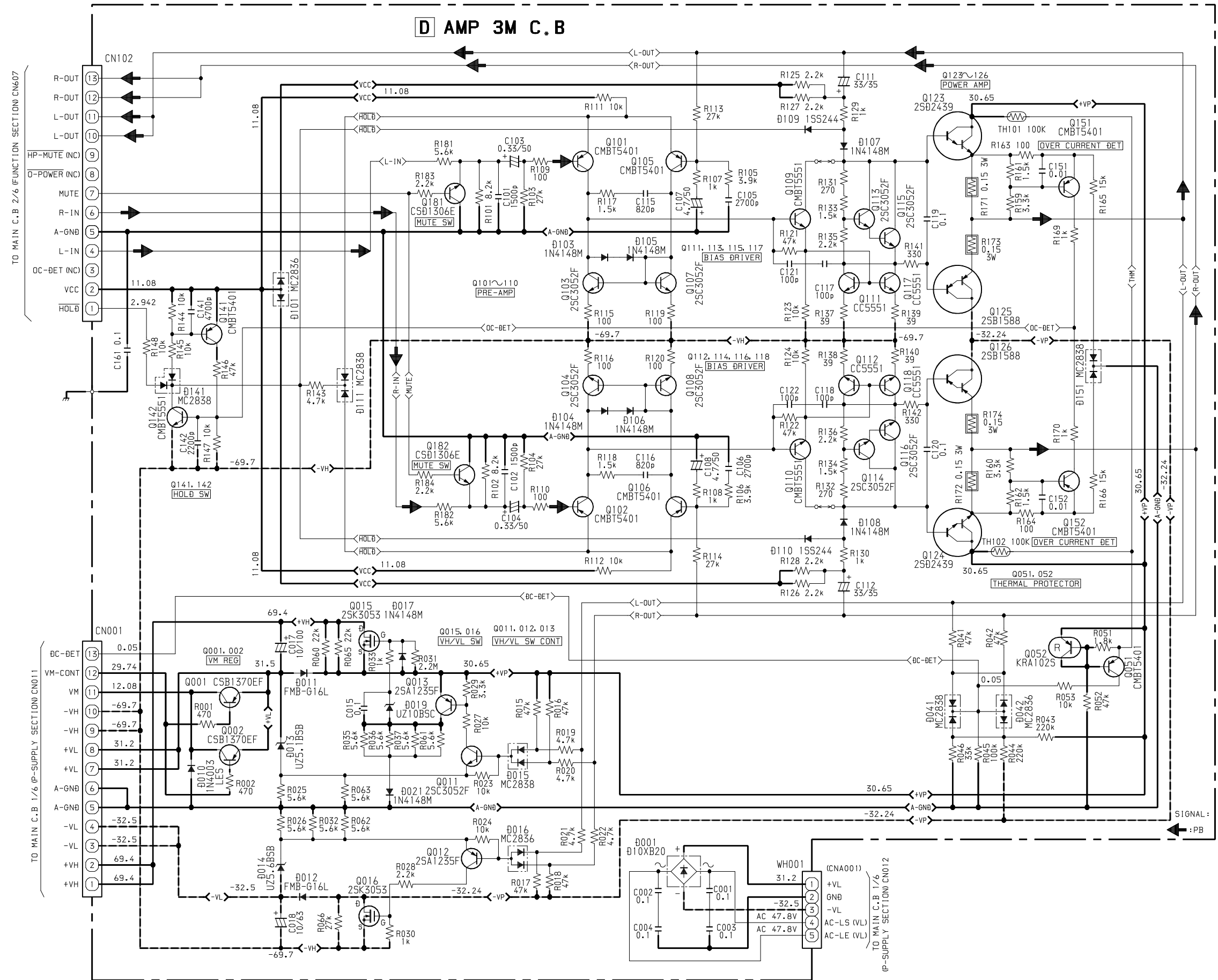


SCHEMATIC DIAGRAM – 7 (FRONT / KEY / DECK)





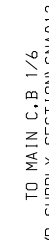
SCHEMATIC DIAGRAM-8 (AMP 3M)

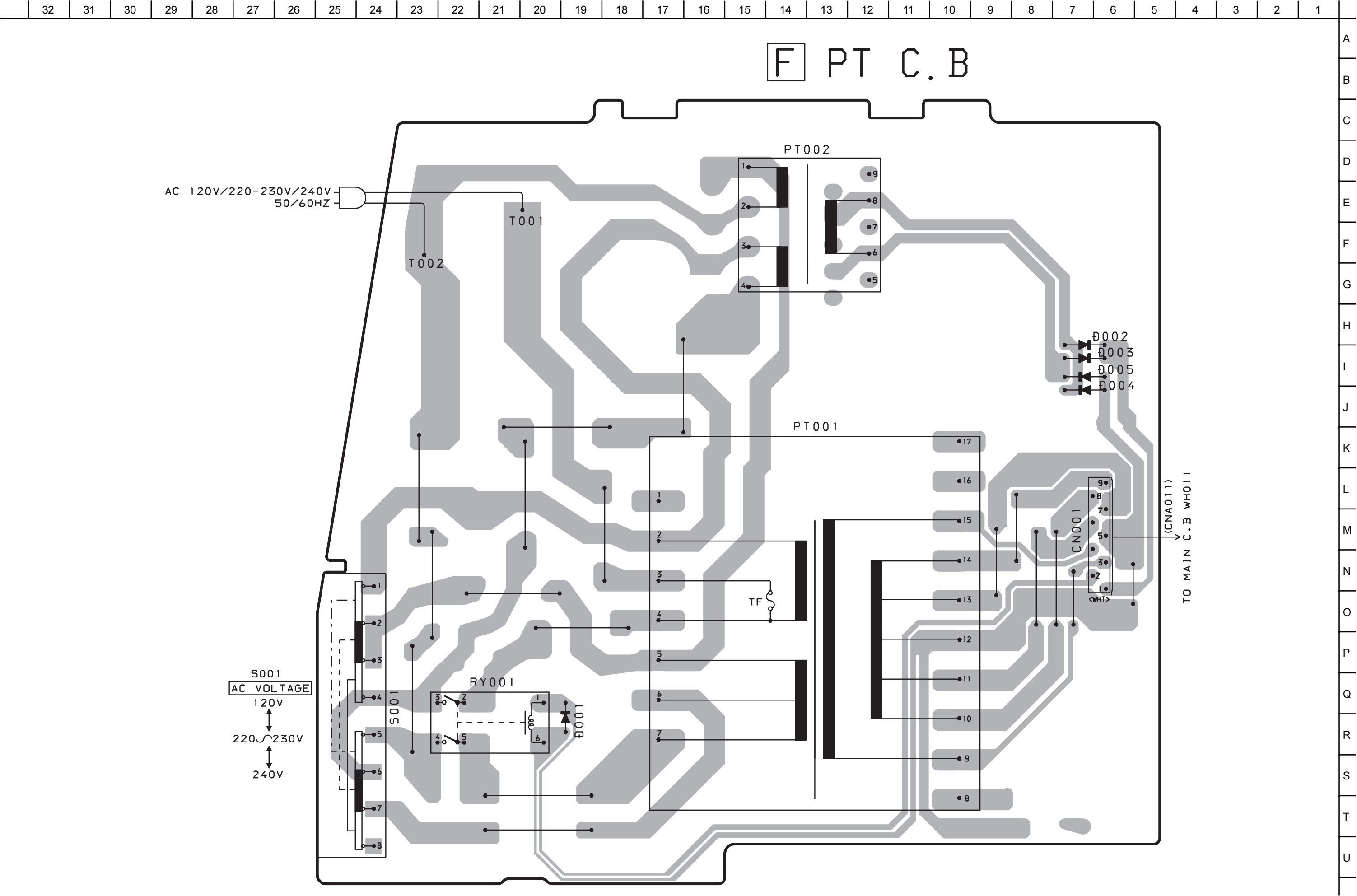


E PANORAMA AMP C.B

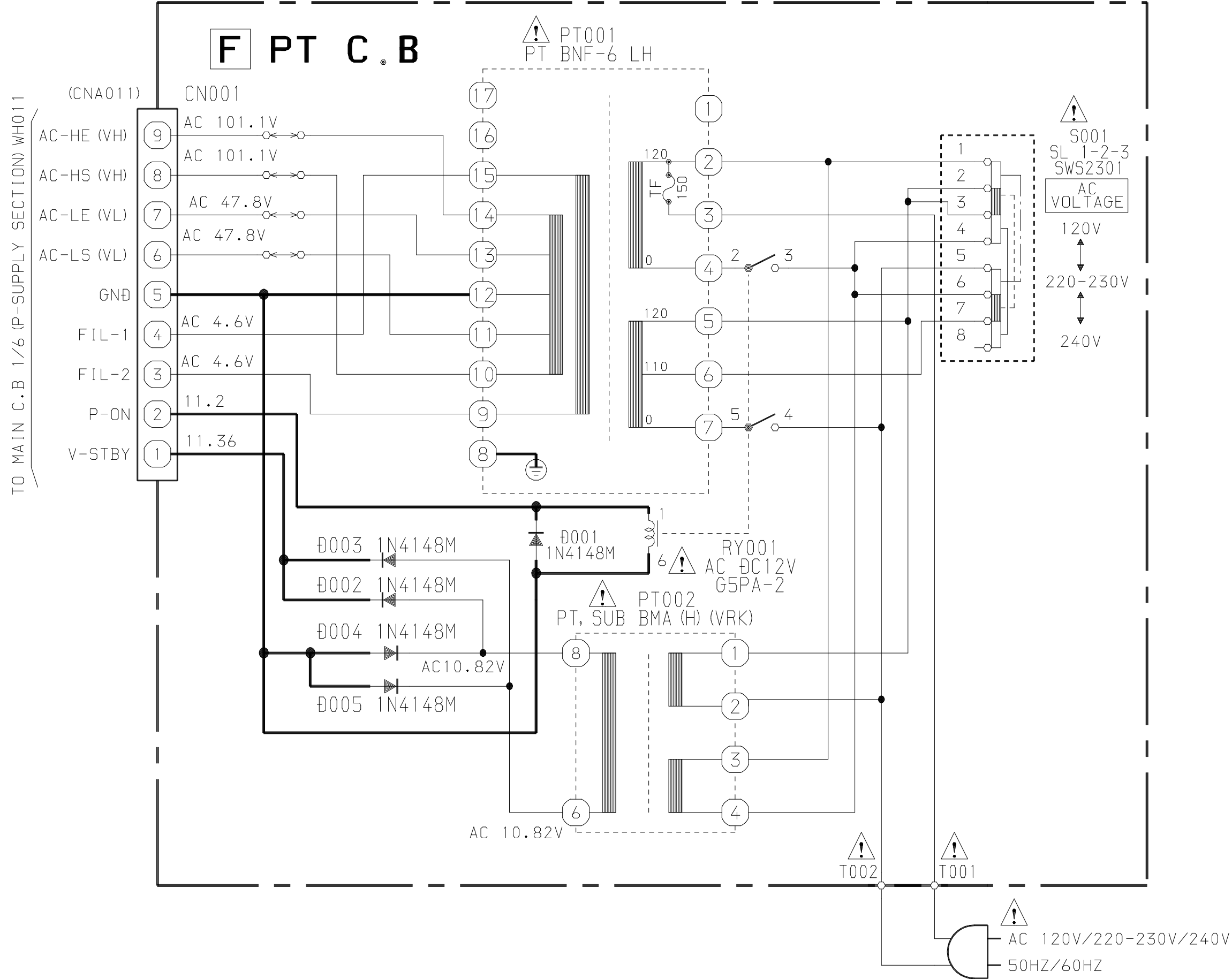
The diagram illustrates the internal circuitry of the PANORAMA AMP C.B module. It features a complex arrangement of components including transistors (Q301, Q302, Q303, Q304, Q305, Q306, Q307, Q308, Q309, Q310, Q311, Q312, Q313, Q314, Q315, Q316, Q317, Q318, Q319, Q320, Q321, Q322, Q323, Q324, Q325, Q326, Q327, Q328, Q329, Q330, Q331, Q332, Q333, Q334, Q335, Q336, Q337, Q338, Q339, Q340, Q341, Q342, Q343, Q344, Q345, Q346, Q347, Q348, Q349, Q350, Q351, Q352, Q353, Q354, Q355, Q356, Q357, Q358, Q359, Q360, Q361, Q362, Q363, Q364, Q365, Q366, Q367, Q368, Q369, Q370, Q371, Q372, Q373, Q374, Q375, Q376, Q377, Q378, Q379, Q380, Q381, Q382, Q383, Q384, Q385, Q386, Q387, Q388, Q389, Q390, Q391, Q392, Q393, Q394, Q395, Q396, Q397, Q398, Q399, Q400, Q401, Q402, Q403, Q404, Q405, Q406, Q407, Q408, Q409, Q410, Q411, Q412, Q413, Q414, Q415, Q416, Q417, Q418, Q419, Q420, Q421, Q422, Q423, Q424, Q425, Q426, Q427, Q428, Q429, Q430, Q431, Q432, Q433, Q434, Q435, Q436, Q437, Q438, Q439, Q440, Q441, Q442, Q443, Q444, Q445, Q446, Q447, Q448, Q449, Q450, Q451, Q452, Q453, Q454, Q455, Q456, Q457, Q458, Q459, Q460, Q461, Q462, Q463, Q464, Q465, Q466, Q467, Q468, Q469, Q470, Q471, Q472, Q473, Q474, Q475, Q476, Q477, Q478, Q479, Q480, Q481, Q482, Q483, Q484, Q485, Q486, Q487, Q488, Q489, Q490, Q491, Q492, Q493, Q494, Q495, Q496, Q497, Q498, Q499, Q500, Q501, Q502, Q503, Q504, Q505, Q506, Q507, Q508, Q509, Q510, Q511, Q512, Q513, Q514, Q515, Q516, Q517, Q518, Q519, Q520, Q521, Q522, Q523, Q524, Q525, Q526, Q527, Q528, Q529, Q530, Q531, Q532, Q533, Q534, Q535, Q536, Q537, Q538, Q539, Q540, Q541, Q542, Q543, Q544, Q545, Q546, Q547, Q548, Q549, Q550, Q551, Q552, Q553, Q554, Q555, Q556, Q557, Q558, Q559, Q560, Q561, Q562, Q563, Q564, Q565, Q566, Q567, Q568, Q569, Q570, Q571, Q572, Q573, Q574, Q575, Q576, Q577, Q578, Q579, Q580, Q581, Q582, Q583, Q584, Q585, Q586, Q587, Q588, Q589, Q590, Q591, Q592, Q593, Q594, Q595, Q596, Q597, Q598, Q599, Q600, Q601, Q602, Q603, Q604, Q605, Q606, Q607, Q608, Q609, Q610, Q611, Q612, Q613, Q614, Q615, Q616, Q617, Q618, Q619, Q620, Q621, Q622, Q623, Q624, Q625, Q626, Q627, Q628, Q629, Q630, Q631, Q632, Q633, Q634, Q635, Q636, Q637, Q638, Q639, Q640, Q641, Q642, Q643, Q644, Q645, Q646, Q647, Q648, Q649, Q650, Q651, Q652, Q653, Q654, Q655, Q656, Q657, Q658, Q659, Q660, Q661, Q662, Q663, Q664, Q665, Q666, Q667, Q668, Q669, Q670, Q671, Q672, Q673, Q674, Q675, Q676, Q677, Q678, Q679, Q680, Q681, Q682, Q683, Q684, Q685, Q686, Q687, Q688, Q689, Q690, Q691, Q692, Q693, Q694, Q695, Q696, Q697, Q698, Q699, Q700, Q701, Q702, Q703, Q704, Q705, Q706, Q707, Q708, Q709, Q710, Q711, Q712, Q713, Q714, Q715, Q716, Q717, Q718, Q719, Q720, Q721, Q722, Q723, Q724, Q725, Q726, Q727, Q728, Q729, Q730, Q731, Q732, Q733, Q734, Q735, Q736, Q737, Q738, Q739, Q740, Q741, Q742, Q743, Q744, Q745, Q746, Q747, Q748, Q749, Q750, Q751, Q752, Q753, Q754, Q755, Q756, Q757, Q758, Q759, Q760, Q761, Q762, Q763, Q764, Q765, Q766, Q767, Q768, Q769, Q770, Q771, Q772, Q773, Q774, Q775, Q776, Q777, Q778, Q779, Q780, Q781, Q782, Q783, Q784, Q785, Q786, Q787, Q788, Q789, Q790, Q791, Q792, Q793, Q794, Q795, Q796, Q797, Q798, Q799, Q800, Q801, Q802, Q803, Q804, Q805, Q806, Q807, Q808, Q809, Q810, Q811, Q812, Q813, Q814, Q815, Q816, Q817, Q818, Q819, Q820, Q821, Q822, Q823, Q824, Q825, Q826, Q827, Q828, Q829, Q830, Q831, Q832, Q833, Q834, Q835, Q836, Q837, Q838, Q839, Q840, Q841, Q842, Q843, Q844, Q845, Q846, Q847, Q848, Q849, Q850, Q851, Q852, Q853, Q854, Q855, Q856, Q857, Q858, Q859, Q860, Q861, Q862, Q863, Q864, Q865, Q866, Q867, Q868, Q869, Q870, Q871, Q872, Q873, Q874, Q875, Q876, Q877, Q878, Q879, Q880, Q881, Q882, Q883, Q884, Q885, Q886, Q887, Q888, Q889, Q890, Q891, Q892, Q893, Q894, Q895, Q896, Q897, Q898, Q899, Q900, Q901, Q902, Q903, Q904, Q905, Q906, Q907, Q908, Q909, Q910, Q911, Q912, Q913, Q914, Q915, Q916, Q917, Q918, Q919, Q920, Q921, Q922, Q923, Q924, Q925, Q926, Q927, Q928, Q929, Q930, Q931, Q932, Q933, Q934, Q935, Q936, Q937, Q938, Q939, Q940, Q941, Q942, Q943, Q944, Q945, Q946, Q947, Q948, Q949, Q950, Q951, Q952, Q953, Q954, Q955, Q956, Q957, Q958, Q959, Q960, Q961, Q962, Q963, Q964, Q965, Q966, Q967, Q968, Q969, Q970, Q971, Q972, Q973, Q974, Q975, Q976, Q977, Q978, Q979, Q980, Q981, Q982, Q983, Q984, Q985, Q986, Q987, Q988, Q989, Q990, Q991, Q992, Q993, Q994, Q995, Q996, Q997, Q998, Q999, Q1000, Q1001, Q1002, Q1003, Q1004, Q1005, Q1006, Q1007, Q1008, Q1009, Q1010, Q1011, Q1012, Q1013, Q1014, Q1015, Q1016, Q1017, Q1018, Q1019, Q1020, Q1021, Q1022, Q1023, Q1024, Q1025, Q1026, Q1027, Q1028, Q1029, Q1030, Q1031, Q1032, Q1033, Q1034, Q1035, Q1036, Q1037, Q1038, Q1039, Q1040, Q1041, Q1042, Q1043, Q1044, Q1045, Q1046, Q1047, Q1048, Q1049, Q1050, Q1051, Q1052, Q1053, Q1054, Q1055, Q1056, Q1057, Q1058, Q1059, Q1060, Q1061, Q1062, Q1063, Q1064, Q1065, Q1066, Q1067, Q1068, Q1069, Q1070, Q1071, Q1072, Q1073, Q1074, Q1075, Q1076, Q1077, Q107

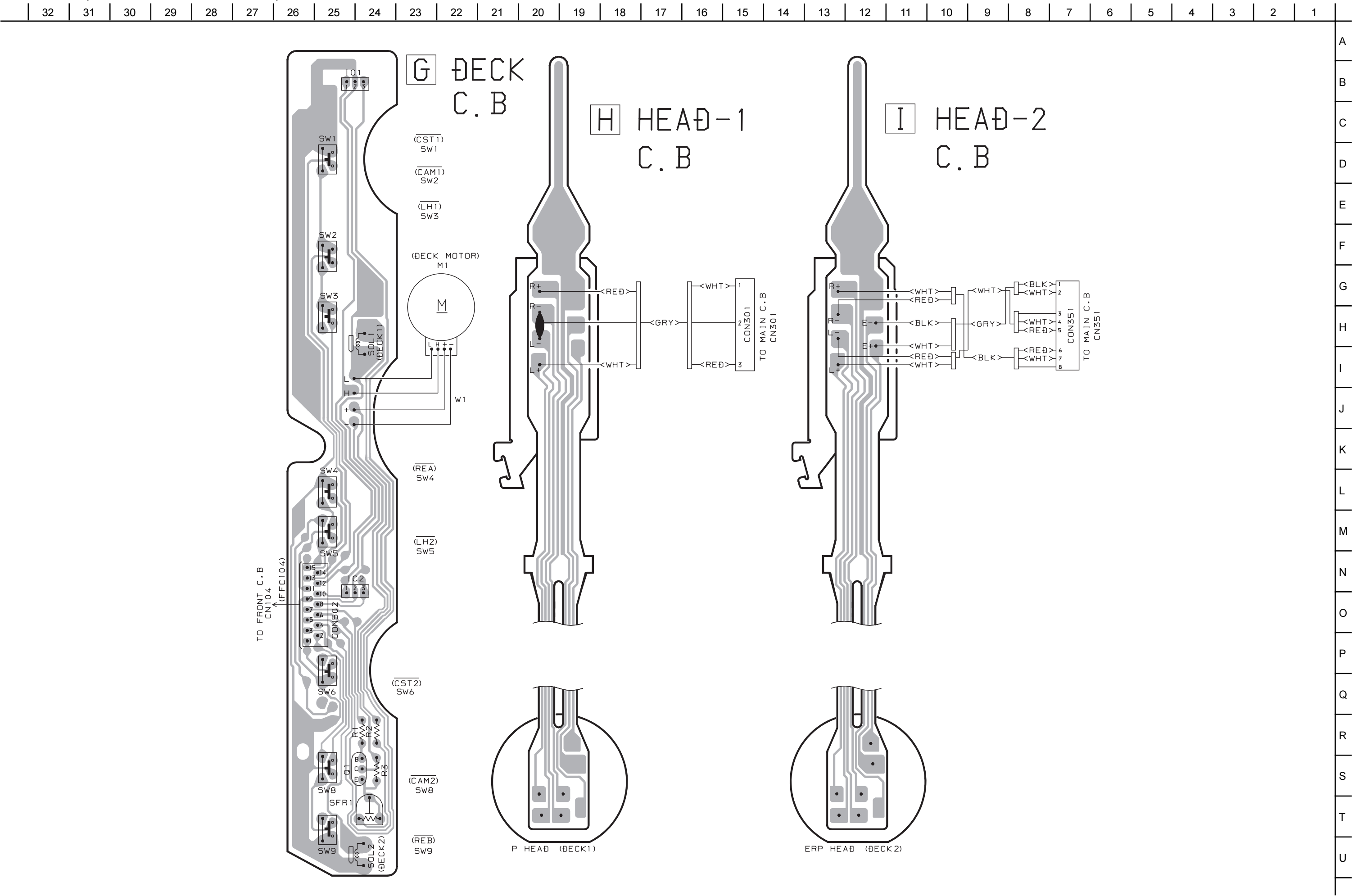
TO MAIN C.B 2/6 (FUNCTION SECTION) CN604





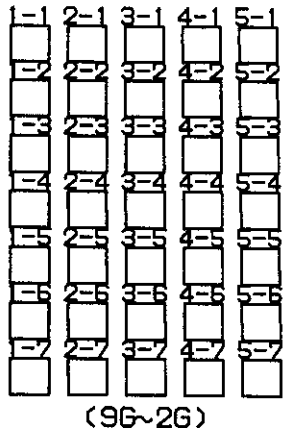
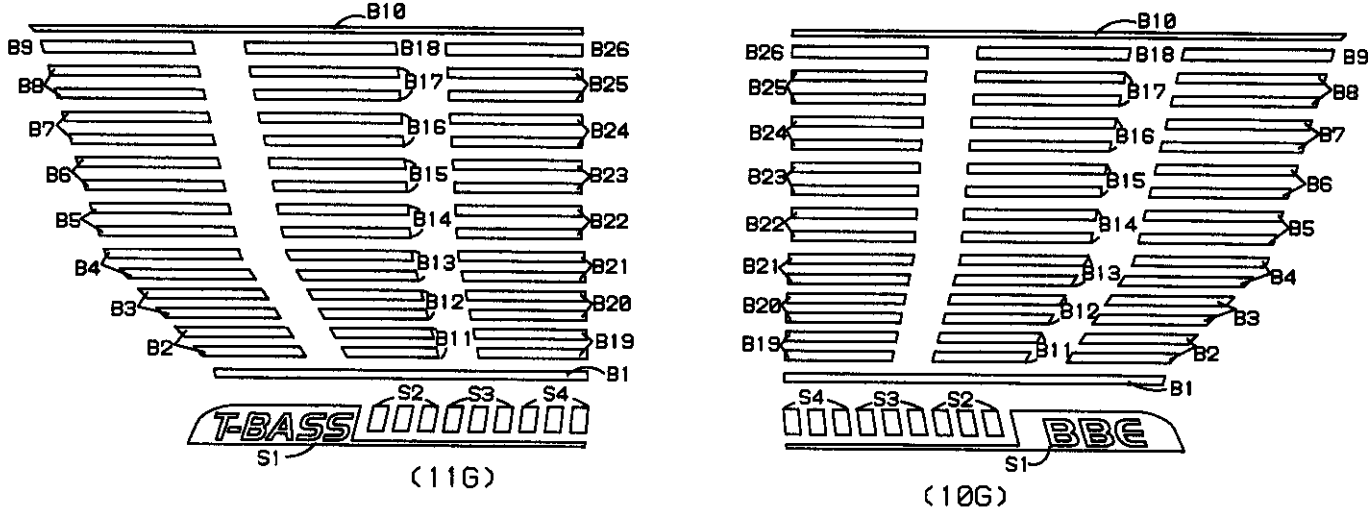
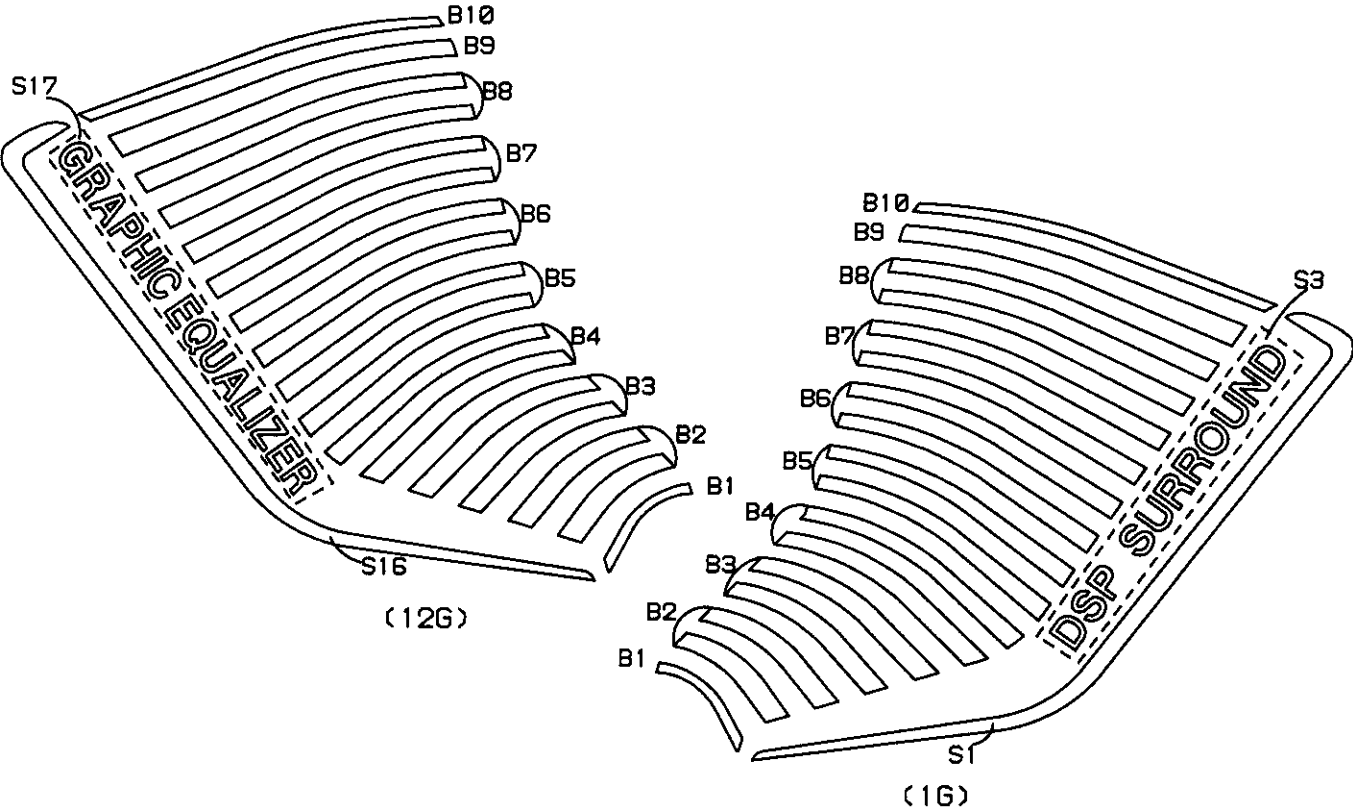
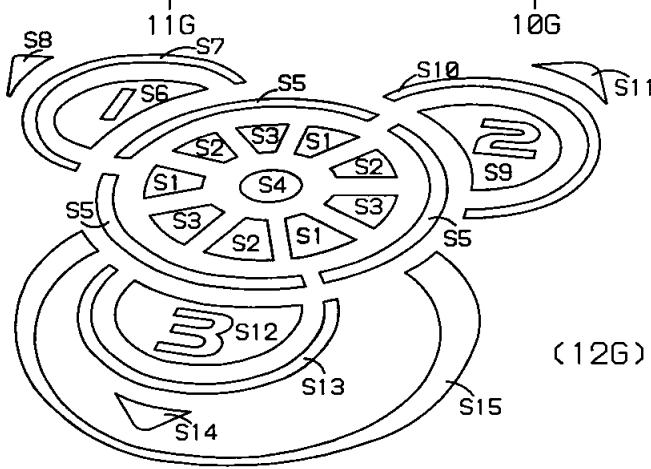
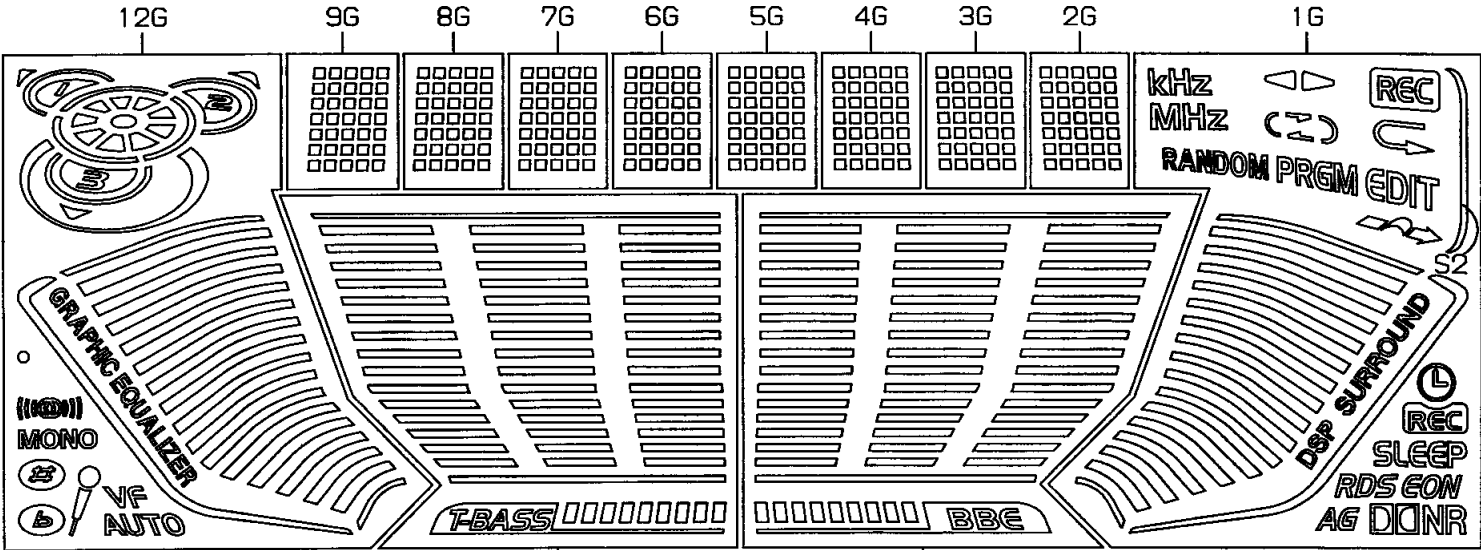
SCHEMATIC DIAGRAM – 10 (PT)





FL (BJ815GNK) GRID ASSIGNMENT / PIN CONNECTION / ANODE CONNECTION













GRID ASSIGNMENT



PIN CONNECTION

PIN NO.	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	0	9	8	7	6	5	4	3	2	1	
CONNECTION	F	F	N	N	N	2	1	0	9	8	7	6	5	4	3	2	1	N	N	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	N	N	N	F	F

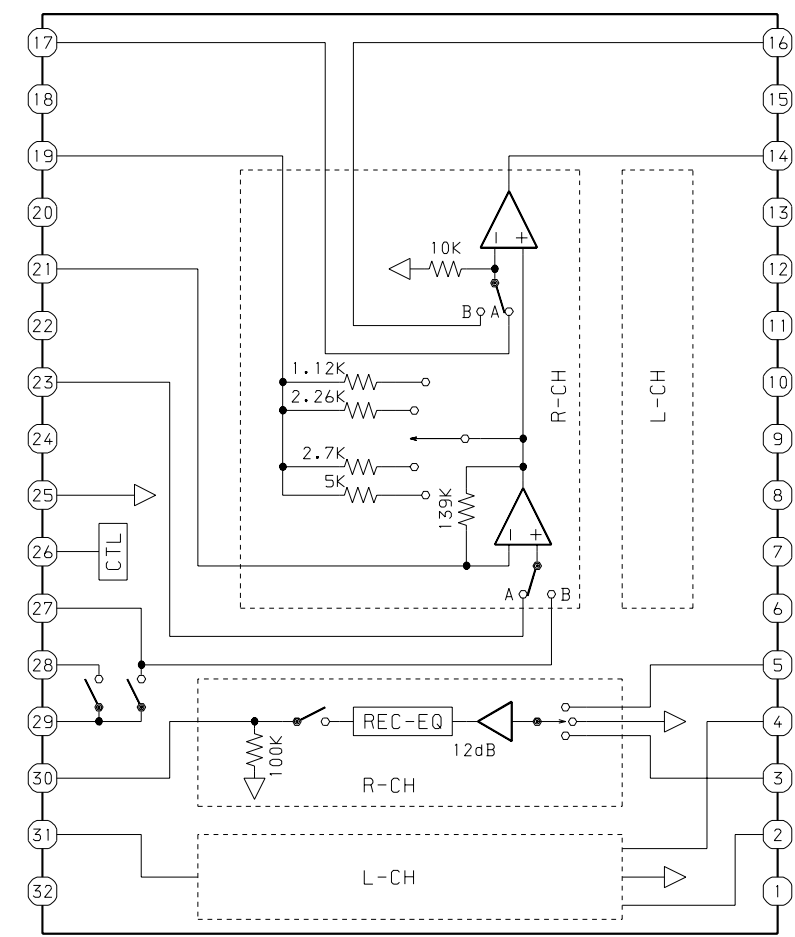
ANODE CONNECTION

	12G	11G	10G	9G~2G	1G
P1	S1	S1	S1	1-1	S1
P2	S2	S2	S2	2-1	S2
P3	S3	S3	S3	3-1	S3
P4	S4	S4	S4	4-1	
P5	S5	B1	B1	5-1	EDIT
P6	S6	-	-	1-2	
P7	S7	-	-	2-2	REC (上)
P8	S8	B2	B2	3-2	B1
P9	S9	B3	B3	4-2	B2
P10	S10	B4	B4	5-2	B3
P11	S11	B5	B5	1-3	B4
P12	S12	B6	B6	2-3	B5
P13	S13	B7	B7	3-3	B6
P14	S14	B8	B8	4-3	B7
P15	S15	B9	B9	5-3	B8
P16	○	B10	B10	1-4	B9
P17	S16	B11	B11	2-4	B10
P18	S17	B12	B12	3-4	PRGM
P19	B1	B13	B13	4-4	
P20	B2	B14	B14	5-4	
P21	B3	B15	B15	1-5	
P22	B4	B16	B16	2-5	
P23	B5	B17	B17	3-5	
P24	B6	B18	B18	4-5	RANDOM
P25	B7	B19	B19	5-5	MHz
P26	B8	B20	B20	1-6	KHz
P27	B9	B21	B21	2-6	-
P28	B10	B22	B22	3-6	-
P29		B23	B23	4-6	
P30	MONO	B24	B24	5-6	REC (下)
P31	VF	B25	B25	1-7	SLEEP
P32	AUTO	B26	B26	2-7	RDS
P33		-	-	3-7	CON
P34		-	-	4-7	AG
P35		-	-	5-7	DCNR

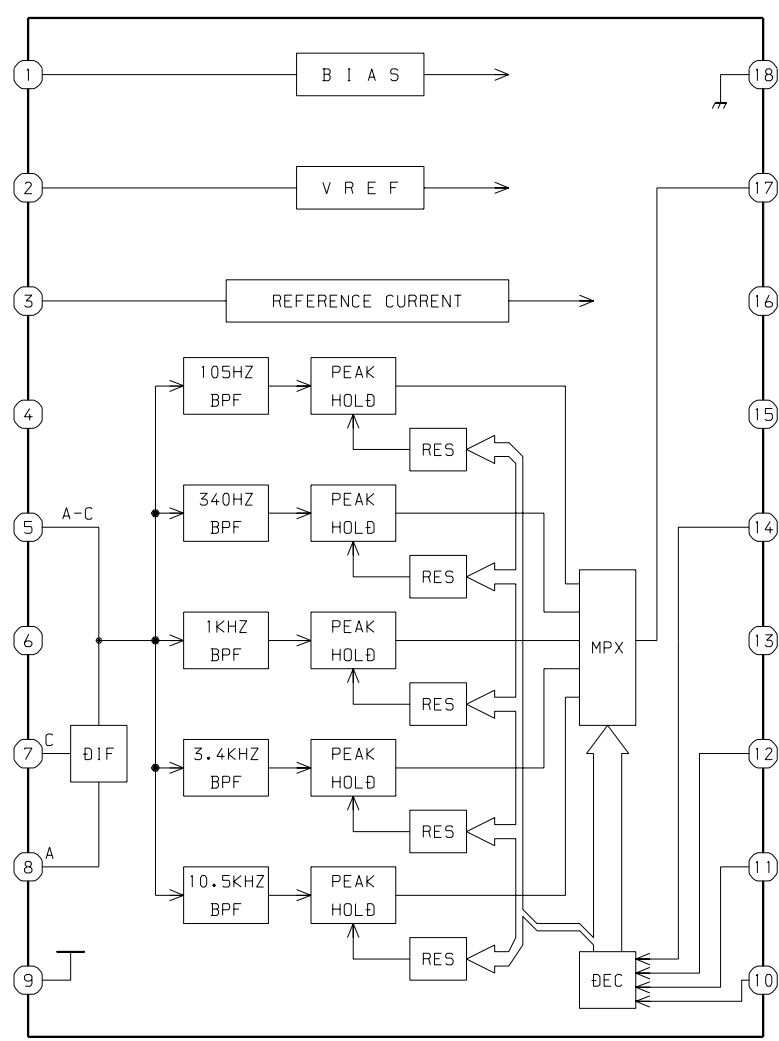
NOTE:
 (上) = (UP)
 (下) = (DOWN)

IC BLOCK DIAGRAM

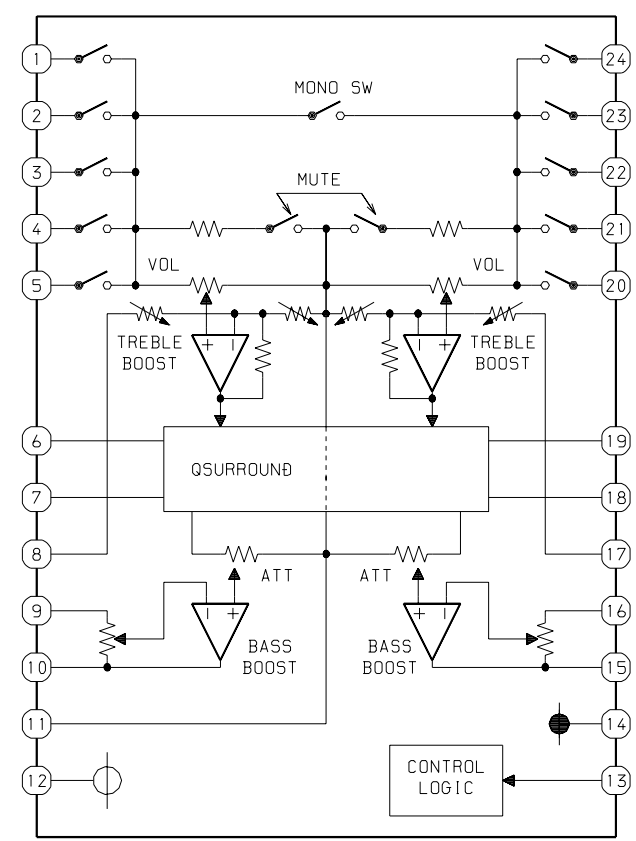
IC, BA7762AFS



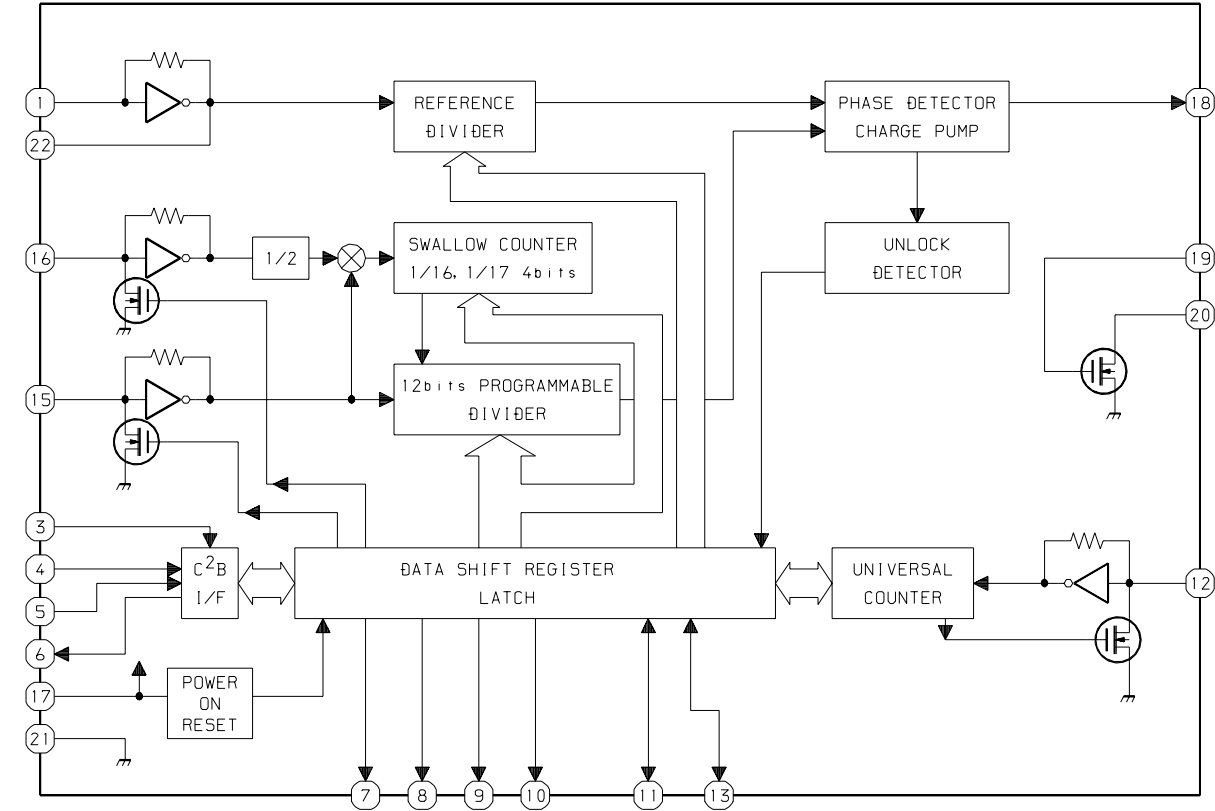
IC, BA3835F



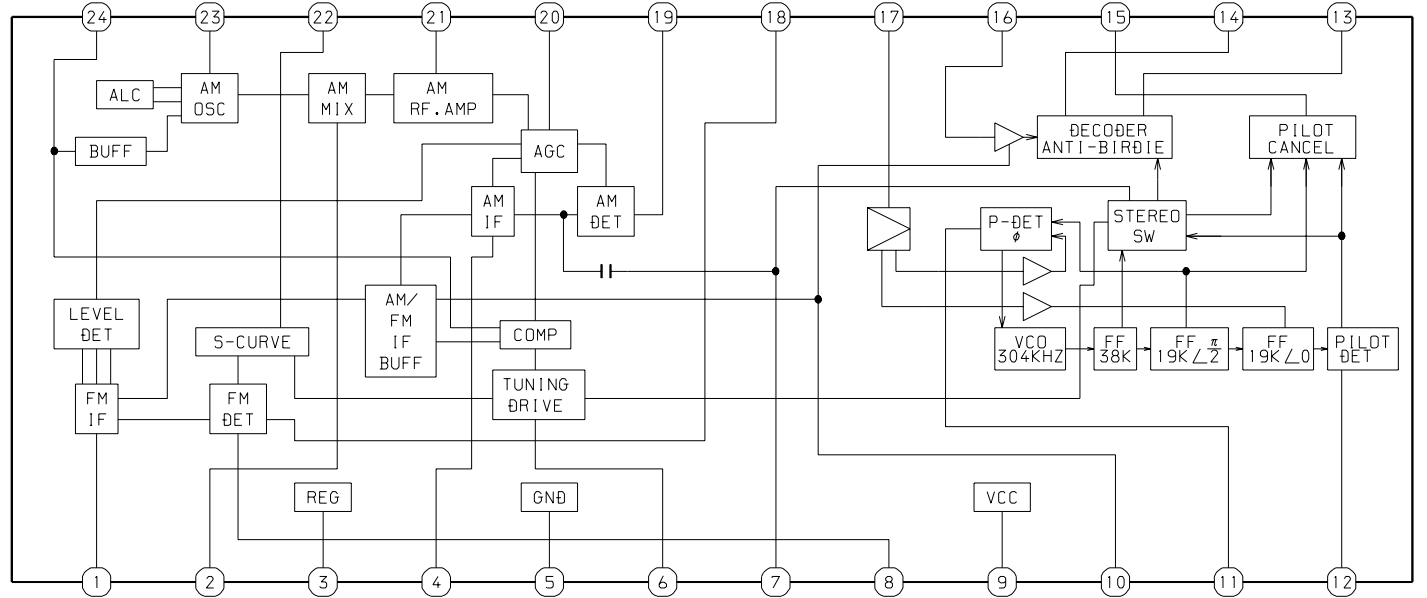
IC, M61515FP



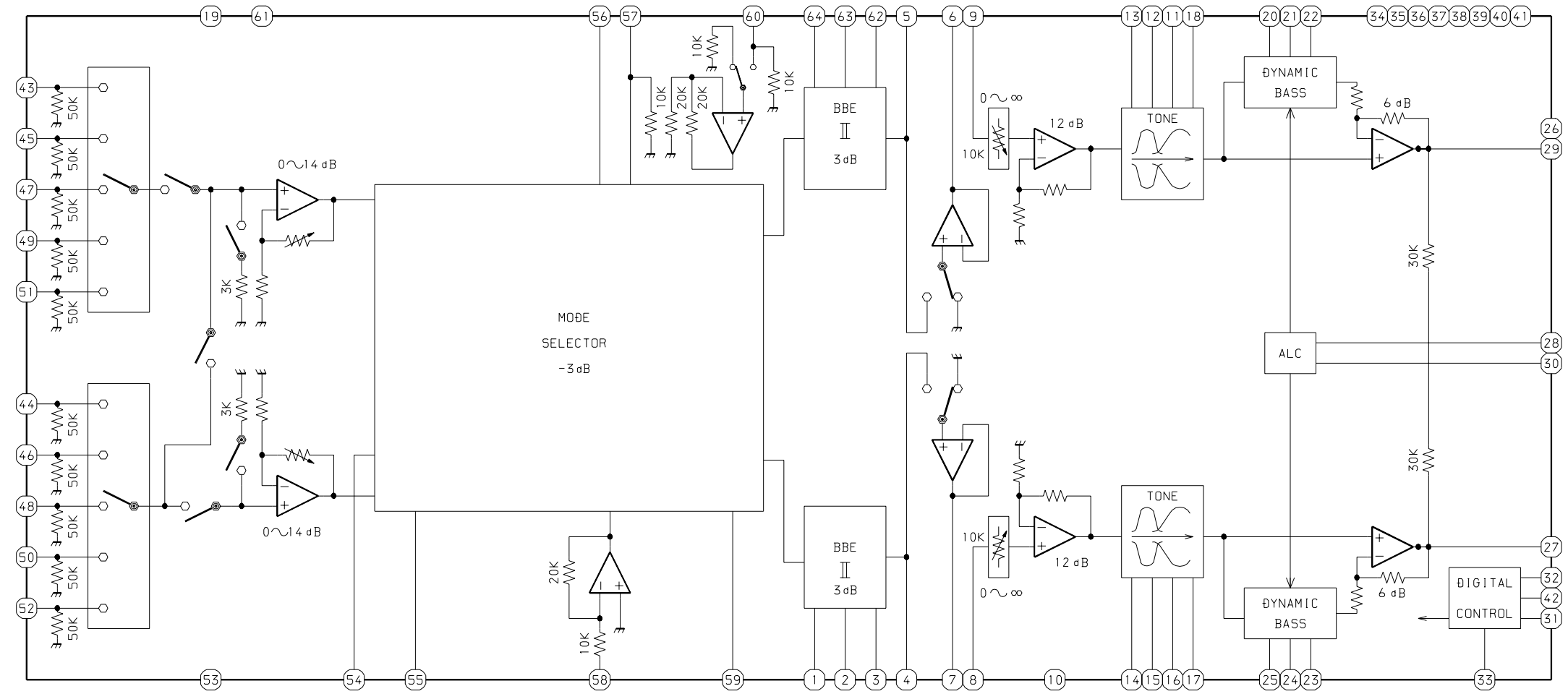
IC, LC72131D-N



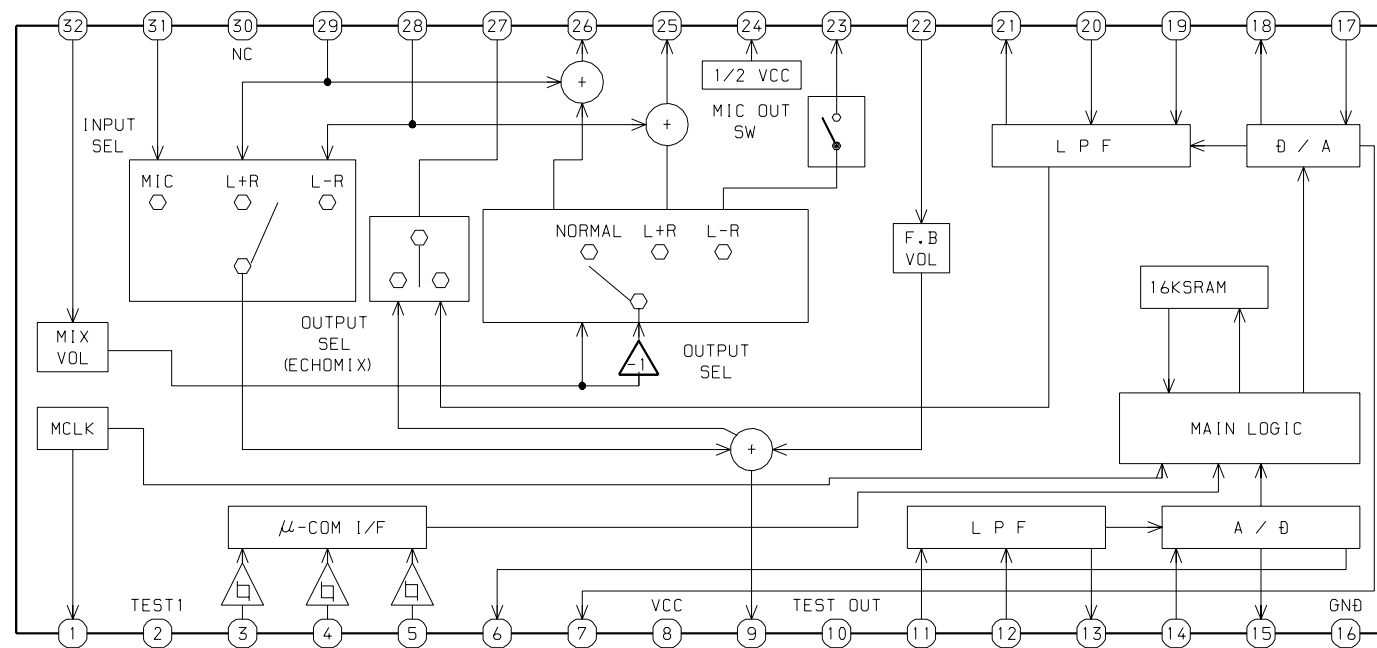
IC, LA1845L



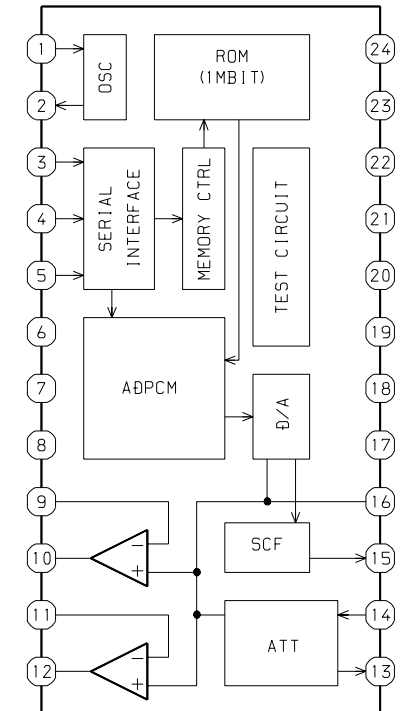
IC, BD3877KS2



IC, M65849BFP631D



IC, BU9990-03FS

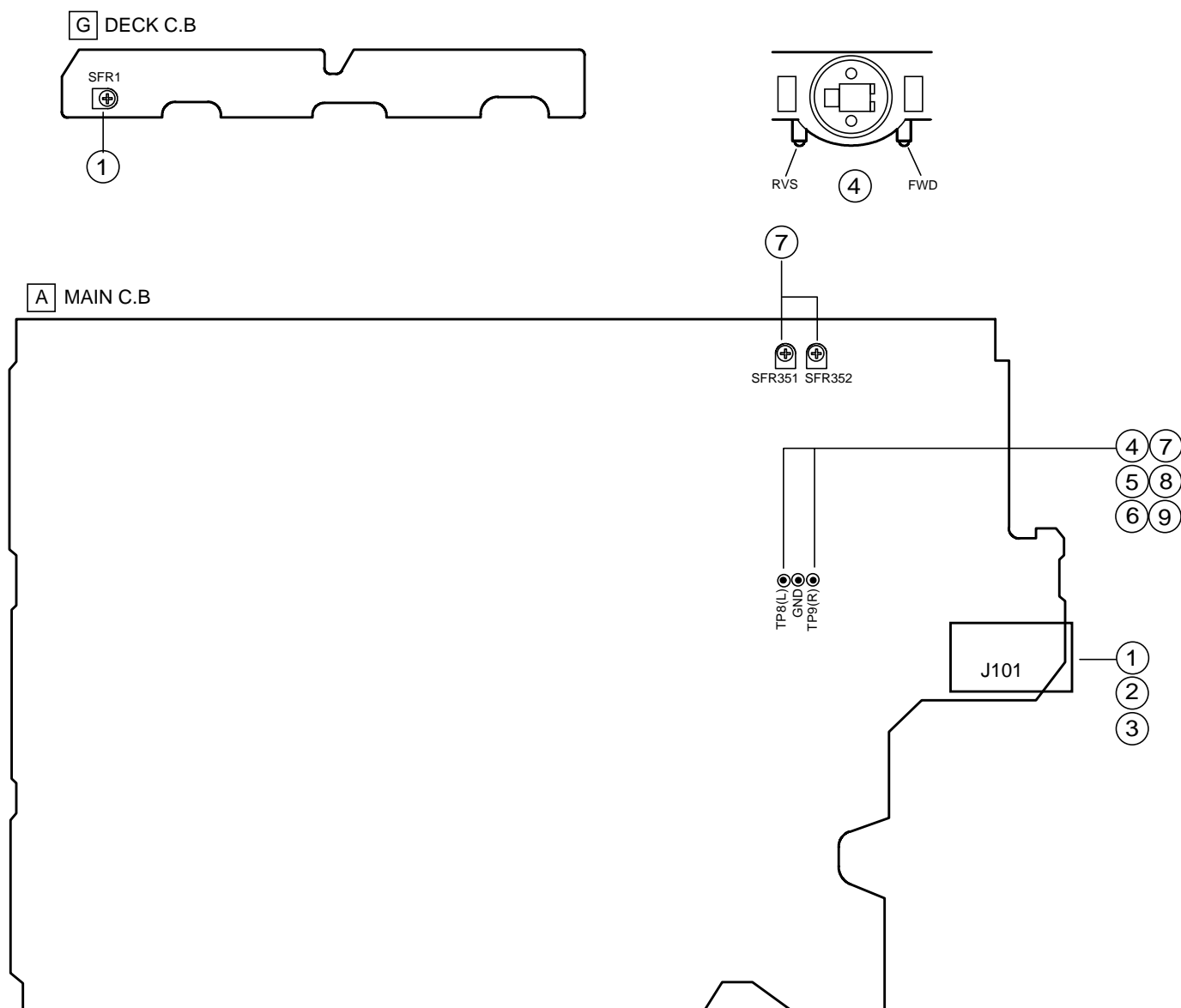


IC DESCRIPTION

IC, LC876670B-5V72

Pin No.	Pin Name	I/O	Description
1	I-SUBQ	I	CD sub-code input.
2	O-BUZ	O	Touch-sensor beep sound output. (Not used)
3	$\overline{\text{O-MOTOR}}$	O	Tape motor $\overline{\text{ON}}$ /OFF.
4	$\overline{\text{O-SOL1}}$	O	Tape 1 plunger $\overline{\text{ON}}$ /OFF.
5	$\overline{\text{O-SOL2}}$	O	Tape 2 plunger $\overline{\text{ON}}$ /OFF.
6	O-RSM-CE	O	Rhythm IC chip enable output.
7	O-HSP	O	PLL-IC chip enable output.
8	O-PANORAMA	O	Panoramic IC data output.
9	O-MUTE	O	Mute output. Mute ON/ $\overline{\text{OFF}}$.
10	$\overline{\text{O-CLK-SFT}}$	O	System microcomputer clock shift $\overline{\text{ON}}$ /OFF output.
11	$\overline{\text{RESET}}$	—	System reset.
12	I-DISH	I	CD turn-table position detection AD input.
13	I-SPEANA / I-MS	I	Spectrum analyzer level / MS input. AD input.
14	VSS1	—	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD1	—	Connected to power supply.
18	I-HOLD	I	System power observation AD input.
19	I-KEY1	I	KEY 1 AD input.
20	I-KEY2	I	KEY 2 AD input.
21	I-KEY3	I	KEY 3 AD input.
22	I-CDSW	I	CD mechanical switch AD input.
23	I-RT-VR	I	VOLUME rotary encoder AD input.
24	I-RT-JOG	I	JOG rotary encoder AD input.
25	I-MIC	I	Auto VF microphone input. Small signal detection (MIC IN) input.
26	I-TM-BASE	I	Time base input.
27	O-CD-DATA	O	CD data output.
28	O-POWER	O	System power ON/ $\overline{\text{OFF}}$ output.
29	$\overline{\text{I-RMC}}$	I	Remote-control signal reception input. Active at "L".
30~41	G12~G1	O	FL grid G12~G1 output.
42~45	P35~P32	O	FL segment P35~P32 output.
46	VDD3	—	Connected to power supply.
47	SPEANA-A / P31	O	Spectrum analyzer band switching output A / FL segment P31 output.
48	SPEANA-B / P30	O	Spectrum analyzer band switching output B / FL segment P30 output.
49	SPEANA-C / P29	O	Spectrum analyzer band switching output C / FL segment P29 output.
50	$\overline{\text{I-HPMUTE}}$ / P28	I/O	Headphone MUTE input / FL segment P28 output.
51	-VP	—	Power supply for FL display.
52	I-STEREO / P27	I/O	Tuner stereo detect input / FL segment P27 output.
53~56	P26~P23	O	FL segment P26~P23 output.
57	BEAT-M / P22	I/O	Beat master diode input / FL segment P22 output.
58	KCON / P21	I/O	KCON enable diode input (Not used) / FL segment P21 output.
59	DSP / P20	I/O	DSP enable diode input / FL segment P20 output.

Pin No.	Pin Name	I/O	Description
60	DOLBY / P19	I/O	DOLBY enable diode input (Not used) / FL segment P19 output.
61	CASINO / P18	I/O	Casino DEMO diode input / FL segment P18 output.
62	KARAOKE / P17	I/O	Karaoke enable diode input (Not used) / FL segment P17 output.
63	PANORAMA / P16	I/O	Panorama enable diode input (Not used) / FL segment P16 output.
64	DEMO / P15	I/O	Demonstration OFF diode input (Not used) / FL segment P15 output.
65	ECO / P14	I/O	Initial echo OFF diode input / FL segment P14 output.
66	OIRT / P13	I/O	OIRT diode input (Not used) / FL segment P13 output.
67	SW / P12	I/O	SW diode input (Not used) / FL segment P12 output.
68	LW / P11	I/O	LW diode input (Not used) / FL segment P11 output.
69	AMST / P10	I/O	AMST diode input (Not used) / FL segment P10 output.
70	AM10K / P9	I/O	AM10K diode input / FL segment P9 output.
71	$\overline{\text{CST2}}$ / P8	I/O	$\overline{\text{CST2}}$ diode input / FL segment P8 output.
72	VDD4	—	Connected to power supply.
73	$\overline{\text{REB}}$ / P7	I/O	$\overline{\text{REB}}$ diode input / FL segment P7 output.
74	$\overline{\text{CAM2}}$ / P6	I/O	$\overline{\text{CAM2}}$ diode input / FL segment P6 output.
75	$\overline{\text{AUTO1}}$ / P5	I/O	$\overline{\text{AUTO1}}$ diode input / FL segment P5 output.
76	$\overline{\text{AUTO2}}$ / P4	I/O	$\overline{\text{AUTO2}}$ diode input / FL segment P4 output.
77	$\overline{\text{CAM1}}$ / P3	I/O	$\overline{\text{CAM1}}$ diode input / FL segment P3 output.
78	$\overline{\text{CST1}}$ / P2	I/O	$\overline{\text{CST1}}$ diode input / FL segment P2 output.
79	$\overline{\text{REA}}$ / P1	I/O	$\overline{\text{REA}}$ diode input / FL segment P1 output.
80	O-CD-CE	O	CD chip enable output.
81	I-DRF / IFC	I	CD DRF input / TUNER IFC input.
82	I-WRQ	I	CD write request input.
83	O-LED-JOG	O	JOG flash ring LED indicator ON/ $\overline{\text{OFF}}$.
84	O-LED-VOL	O	VOL flash ring LED indicator ON/ $\overline{\text{OFF}}$.
85	$\overline{\text{O-LED-TUNER}}$	O	TUNER function LED $\overline{\text{ON}}$ /OFF.
86	$\overline{\text{O-LED-MD}}$	O	MD function LED $\overline{\text{ON}}$ /OFF.
87	$\overline{\text{O-LED-AUX}}$	O	AUX function LED $\overline{\text{ON}}$ /OFF.
88	$\overline{\text{O-LED-TAPE}}$	O	TAPE function LED $\overline{\text{ON}}$ /OFF.
89	VSS2	—	Connected to GND.
90	VDD2	—	Connected to power supply.
91	$\overline{\text{O-LED-CD}}$	O	CD function LED $\overline{\text{ON}}$ /OFF.
92	$\overline{\text{O-LED-CD1}}$	O	CD1 direct button LED $\overline{\text{ON}}$ /OFF.
93	$\overline{\text{O-LED-CD2}}$	O	CD2 direct button LED $\overline{\text{ON}}$ /OFF.
94	$\overline{\text{O-LED-CD3}}$	O	CD3 direct button LED $\overline{\text{ON}}$ /OFF.
95	$\overline{\text{O-KSCAN}}$	O	“L” at key-scan timing switching retrieve.
96	O-PLL-CE	O	PLL-IC chip enable output.
97	O-M-STB	O	Main C.B strobe output.
98	O-M-CLK	O	Main C.B clock output.
99	O-M-DATA	O	Main C.B data output.
100	O-CD-CLK	O	CD clock output.



<DECK SECTION>

1. Adjusting Tape Speed (DECK 2)

Requirements

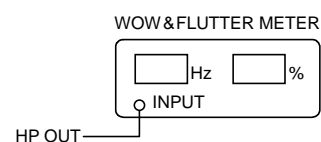
- Measuring Device: WOW & FLUTTER Meter (Frequency Counter)

Test Tape: TTA-100 (3 kHz)

Test Point: HP OUT (J101)

Adjustment Point: SFR 1

- 1) Connect the WOW & FLUTTER Meter to the HP OUT.
- 2) Insert the test tape (TTA-100) into DECK 2, FWD playback the centre of the tape and adjust SFR1 until it becomes $3,000 \text{ Hz} \pm 5 \text{ Hz}$.
- 3) RVS playback and check that $\pm 45 \text{ Hz}$ is added according to the FWD speed.



2. Checking Tape Speed (DECK 1)

Requirements

Same as number 1

- 1) Insert the test tape (TTA-100) into DECK 1, playback the centre of the tape and check that the speed is within $\pm 45 \text{ Hz}$ according to the speed of DECK 2.

3. Checking WOW & FLUTTER (DECK 1, DECK 2)

Requirements

Same as number 1

- 1) Connect the WOW & FLUTTER Meter to the HP OUT.
- 2) Set the indicator to JIS and the mode to W RMS (WTD) of the WOW & FLUTTER.
- 3) Playback the centre of the test tape (TTA-100) and check that it is below 0.21 %.

4. Checking Adjusting Head Azimuth (DECK 1, DECK 2)

Requirements

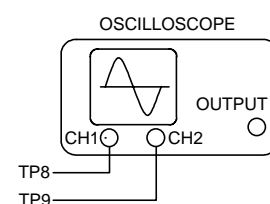
- Measuring Device: Oscilloscope

Test Tape: TTA-300 (10 kHz)

Test Point: TP8 (Lch), TP9 (Rch)

Adjustment Point: Head Azimuth Screws

- 1) Connect the CH1 probe of the oscilloscope to TP8 (Lch) and the CH2 probe of the oscilloscope to TP9 (Rch).
- 2) Set the V mode of the oscilloscope to ADD.
- 3) Insert the test tape (TTA-300) into DECK 1, FWD playback the centre of the tape and adjust, using the head azimuth screws until the waveform of the oscilloscope has reached the maximum when playing back at 10 kHz.
- 4) Reverse the tape, RVS playback and adjust, using the head azimuth screws until the waveform of the oscilloscope has reached its maximum.
- 5) After the adjustment, bond lock (1600 B) the screws.
- 6) Perform the same operation from 3) to 5) for DECK 2.



5. Checking Playback Frequency (DECK 1, DECK 2)

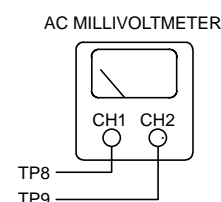
Requirements

- Measuring Device: Millivoltmeter

Test Tape: TTA-330 (315 Hz/8 kHz)

Test Point: TP8 (Lch), TP9 (Rch)

- 1) Connect CH1 of the millivoltmeter to TP8 (Lch) and CH2 of the millivoltmeter to TP9 (Rch).
- 2) Insert the test tape (TTA-300) into DECK 1 and playback at 315 Hz and 10 kHz.
- 3) Use the 315 Hz output level as a standard, check that the 8 kHz level is within ± 3 dB.
- 4) Perform the same operation from 3) to 5) for DECK 2.



6. Checking Playback Sensitivity (DECK 1, DECK 2)

Requirements

- Measuring Device: Millivoltmeter

Test Tape: TTA-200 (400 Hz)

Test Point: TP8 (Lch), TP9 (Rch)

- 1) Connect CH1 of the millivoltmeter to TP8 (Lch) and CH2 of the millivoltmeter to TP9 (Rch).
- 2) Insert the tape (TTA-200) into DECK 1 and playback.
- 3) Check that the output level is within $300 \text{ mV} \pm 30 \text{ mV}$.
- 4) Perform the same operation from 2) to 3) for DECK 2.

7. Adjusting REC/PB Frequency Response (DECK 2)

Requirements

- Measuring Devices: Millivoltmeter, Audio Signal Generator

(Low Frequency Generator) Attenuator

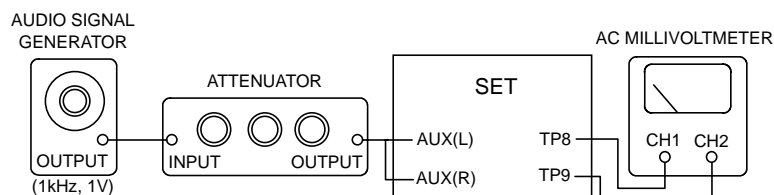
Test Tape: TTA-602 (NORMAL)

Test Point: TP8 (Lch) , TP9 (Rch)

Input Point: AUX (1 kHz/10 kHz)

Adjustment Point: SFR351 (Lch), SFR352 (Rch)

- 1) Connect CH1 of the millivoltmeter to TP8 (Lch) and CH2 of the millivoltmeter to TP9 (Rch).



- 2) Connect the output from the generator to the attenuator and connect the AUX from the set to the attenuator.
- 3) Insert the tape (TTA-602) into DECK 2 and record the 1 kHz signal from AUX.
- 4) At this time, adjust the attenuator until TP8 and TP9 output levels become 21 mV.
- 5) Record 1 kHz and 10 kHz alternately.
- 6) Adjust SFR351 (Lch)/SFR352 (Rch) until the playback output level of 10 kHz is within 0.5 ± 0.5 dB according to the standard when the playback output level of 1 kHz is used as the standard.

8. Checking REC/PB Frequency Response (DECK 2)

Requirements

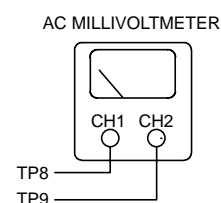
- Measuring Devices: Same as 7

Test Tape: TTA-615 (CrO₂)

Test Point: TP8 (Lch) , TP9 (Rch)

Input Point: AUX (1 kHz/10 kHz)

- 1) Connect CH1 of the millivoltmeter to TP8 (Lch) and CH2 of the millivoltmeter to TP9 (Rch).
- 2) Connect the output from the generator to the attenuator and connect the AUX from the set to the attenuator.
- 3) Insert the tape (TTA-602) into DECK 2 and record the 1 kHz signal from AUX.
- 4) At this time, adjust the attenuator until the TP8 and TP9 output levels become 21 mV.
- 5) Record 1 kHz and 10 kHz alternately.
- 6) Check the output level of 10 kHz is within ± 2.5 dB according to the standard when the playback output level of 1 kHz is used as the standard.



9. Checking REC/PB Sensitivity (DECK 2)

Requirements

- Measuring Devices: Millivoltmeter, Audio Signal Generator (Low Frequency Generator), Attenuator

Test Tape: TTA-602 (NORMAL)

TTA-615 (CrO₂)

Test Point: TP8 (Lch) , TP9 (Rch)

Input Point: AUX (1 kHz)

- 1) Connect CH1 of the millivoltmeter to TP8 (Lch) and CH2 of the millivoltmeter to TP9 (Rch).
- 2) Connect the output from the generator to the attenuator and connect the AUX from the set to the attenuator.
- 3) Insert the tape (TTA-602) into DECK 2 and record the 1 kHz signal from AUX.
- 4) At this time, adjust the attenuator until the TP8 and TP9 output levels become 210 mV.
- 5) Playback 1 kHz and check that the output level during playback and the output level during recording are within ± 2.5 dB.
- 6) Insert the test tape (TTA-615) into DECK 2, perform 3) to 5) and check that it is within ± 3 dB.

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP11 (CLK)
Method : Set to AM 1710 kHz and check that the test point is 2160 kHz \pm 45 Hz.
2. AM VT Check
Settings : • Test point : TP10 (VT)
Method : Set to AM 1710 kHz and check that the test point is less than 8.5 V. Then set to AM 530 kHz and check that the test point is more than 0.6 V.
3. AM Tracking Adjustment
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Adjustment location : L951 (1/3)
Method : Set to AM 1000 kHz and adjust L951 (1/3) so that the test point becomes maximum.
4. FM VT Adjustment
Settings : • Test point : TP10 (VT)
• Adjustment location : L906
Method : Set to FM 108.0 MHz and adjust L906 so that the test point becomes 7.0 V \pm 0.1 V. Then set to FM 87.5 MHz and check that the test point is more than 0.4 V.
5. FM Tracking Adjustment
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Adjustment location : L903
Method : Set to FM 87.5 MHz and adjust L903 so that the test point becomes maximum.
6. AM IF Adjustment
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Adjustment location : L802 450 kHz
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP12, TP13 (DC balance)
TP18 (Lch), TP19 (Rch)
(Mono distortion)
• Adjustment location : L801
• Input level : 60 dB μ V
Method : Set to FM 98.0 MHz and adjust L801 so that the voltage between TP12 and TP13 becomes 0 V \pm 500 mV with distortion less than 0.5 %.

8. Output Level Check
<AM>
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Input level : 74 dB μ V
Method : Set to AM 1000 kHz and check that the test point is 105 mV \pm 3 dB.

<FM>
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Input level : 60 dB μ V
Method : Set to FM 98.0 MHz and check that the test point is 420 mV \pm 3 dB.
9. FM Separation Check
Settings : • Test point : TP14 (Lch), TP15 (Rch)
• Input level : 60 dB μ V
Method : Set to FM 98.0 MHz and check that the test point is more than 25 dB.

< FRONT SECTION >

1. μ -CON Clock Adjustment
Settings : • Test point : TP17 (K-SCAN)
TP16 (GND)
• Adjustment location : L901
Method : Insert AC plug while pressing of "POWER" key and "CLOCK" function key. Connect a frequency counter across TP16 and TP17. Then adjust L901 so that the frequency across the test point is 226.98 Hz \pm 0.23 Hz (4.40 msec \sim 4.41 msec).

CD TEST MODE

1. How to Activate 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 CD Test Mode

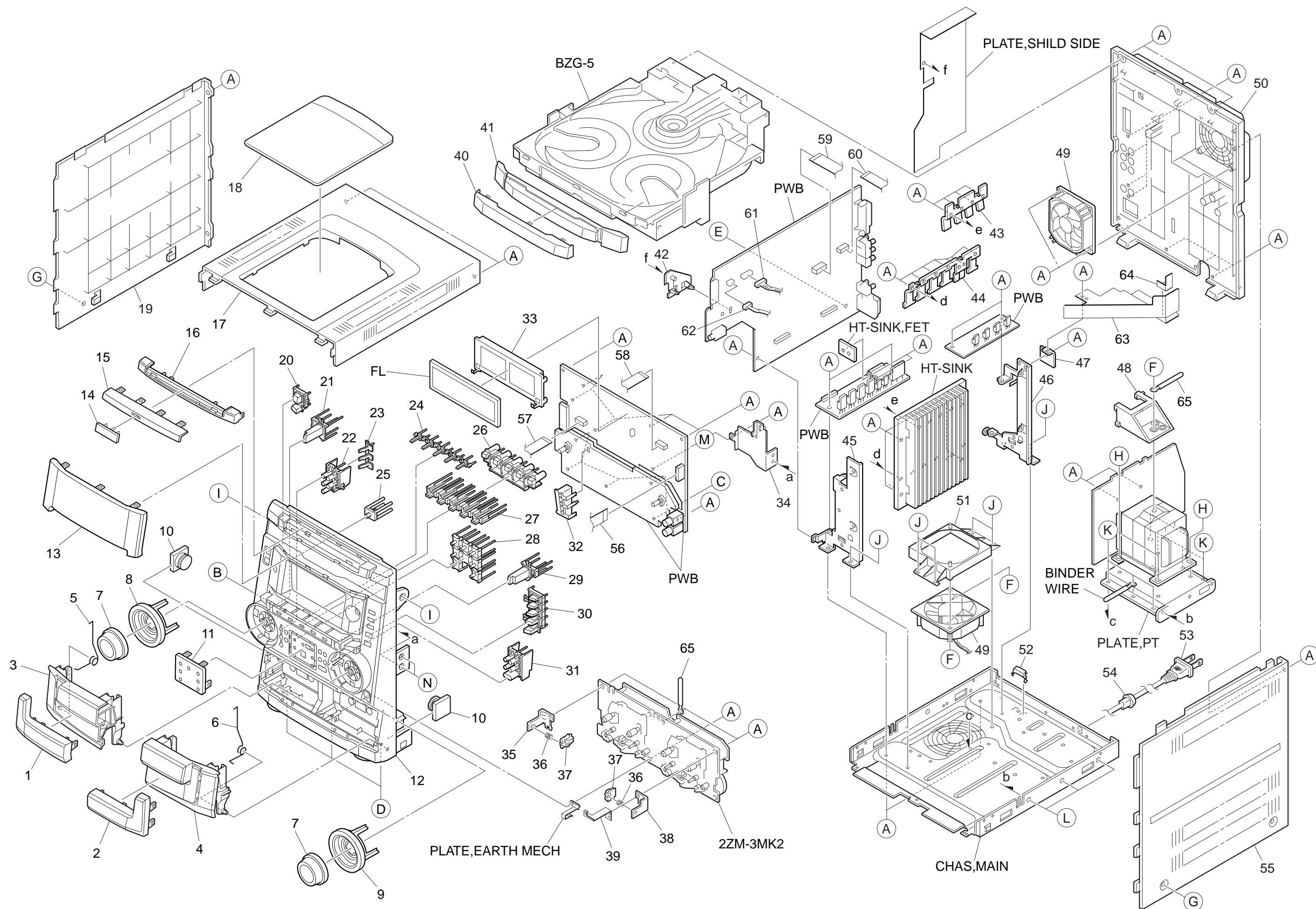
Press the POWER button, push other FUNCTION buttons or disconnect the AC plug.

3. Function Descriptions and Application of 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 is ignored during search mode)
3	Play Mode	PLAY 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 circuits 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	FF button	TEST	<ul style="list-style-type: none">• Pickup moves to the inner circumference. *2At the same time, the lens is kicked to the inner circumference.	<ul style="list-style-type: none">• Sled circuit check• Tracking circuit check• Mechanism operation check• Pickup check
		RWD button	TEST	<ul style="list-style-type: none">• Pickup moves to the outer circumference. *2At the same time, the lens is kicked 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 check• Spindle motor 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 where 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 FF or RWD button is pressed even when the pickup is located at the innermost track or the outermost track.

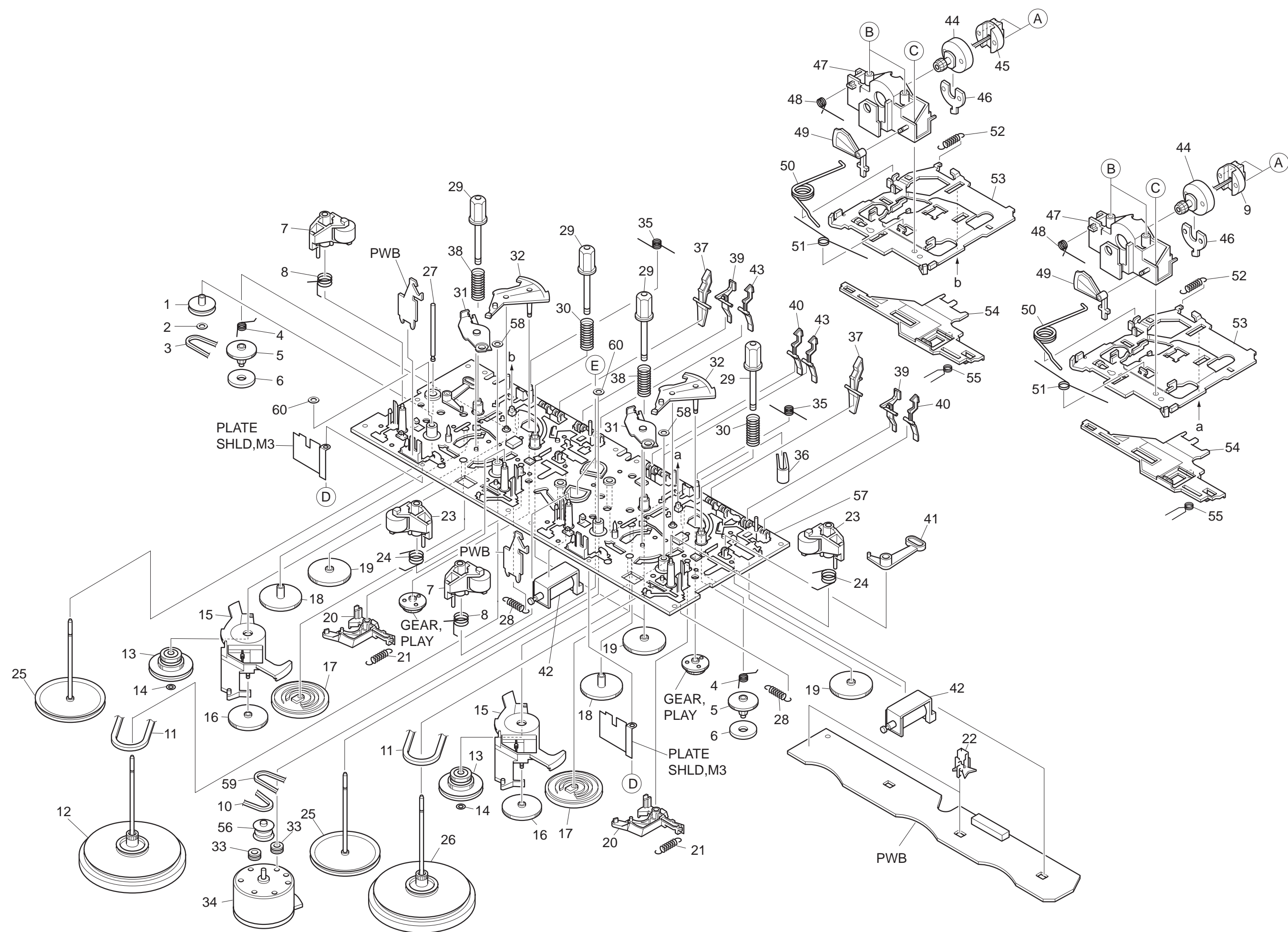


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF6-008-010		WINDOW, CASS1	41	8B-NF6-002-010		PANEL, TRAY
2	8B-NF6-009-010		WINDOW, CASS2	42	8A-NF8-206-010		HLDR, PWB M
3	8B-NF6-003-010		BOX, CASS1	43	8B-NF6-206-010		HLDR, TR PNRM
4	8B-NF6-004-010		BOX, CASS2	44	8B-NF6-205-010		HLDR, TR AMP
5	8A-NF8-281-010		SPR-T, EJECT 1	45	8B-NF6-203-010		HLDR, HT-SINK F
6	8A-NF8-282-010		SPR-T, EJECT 2	46	8B-NF6-204-010		HLDR, HT-SINK R
7	8B-NF6-021-010		KNOB, RTRY VOL	47	8B-NF6-223-010		HLDR, DUCT
8	8B-NF6-027-010		KEY, ASSY ENTER	48	8B-NF6-214-010		HLDR, PWB PT
9	8B-NF6-029-010		KEY, ASSY MIC	49	87-A91-751-010		FAN, DSB0812M-S382 -400MM
10	8Z-NF6-210-010		DMPR, 150 N	50	8B-NF6-052-010		CABT, REAR LHSM
11	8B-NF6-011-010		PANEL, OPE	51	8B-NF7-238-010		HLDR, FAN LOW
12	8B-NF6-041-010		CABT, FR H	52	87-NF4-221-010		HLDR, CABLE
13	8B-NF6-061-010		WINDOW, DISPLAY H	△ 53	87-A80-092-010		AC CORD ASSY, E BLK SUN FAI
14	87-CE3-023-010		BADGE, AIWA 30N SILV	54	87-085-185-010		BUSHING, AC CORD (E)
15	8B-NF6-010-010		PANEL, CD	55	8B-NF6-033-010		PANEL, RIGHT V-2
16	8B-NF6-005-010		WINDOW, CD	56	88-915-181-110		FF-CABLE, 15P 1.25
17	8B-NF7-040-010		PANEL, TOP V-2 ANF8	57	88-905-061-110		FF-CABLE, 5P 1.25 60MM
18	8A-NF8-006-010		WINDOW, TOP	58	88-908-301-110		FF-CABLE, 8P 1.25
19	8B-NF6-034-010		PANEL, LEFT V-2	59	88-909-141-110		FF-CABLE, 9P 1.25 140MM
20	8B-NF6-012-010		KEY, POWER	60	88-906-251-110		FF-CABLE, 6P 1.25 (RVS-FACE)
21	8B-NF6-025-010		KEY, T-BASS	61	87-NF6-616-010		CONN ASSY, 8P RPB
22	8B-NF6-017-010		KEY, CD	62	87-NF6-615-010		CONN ASSY, 3P PB
23	8B-NF6-024-010		REFLECTOR, CD	63	8B-NF6-222-010		COVER, DUCT
24	8B-NF6-022-010		REFLECTOR, FUN	64	8B-NF6-221-010		PLATE, DUCT L
25	8A-DB8-036-010		REFLECTOR, ECO	65	87-064-185-010		HLDR, WIRE
26	8B-NF6-211-010		GUIDE, FUN	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
27	8B-NF6-031-010		KEY, FUN	B	87-723-096-410		QT2+3-10W/O SLOT BL
28	8B-NF6-032-010		KEY, OPE	C	87-721-096-410		QT2+3-10 W/O SLOT
29	8B-NF6-026-010		KEY, BBE	D	87-067-688-010		BVTT+3-6
30	8B-NF6-018-010		KEY, SPICE	E	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
31	8B-NF6-019-010		KEY, EDIT	F	87-067-579-010		TAPPING SCREW, BVT2+3-8
32	8B-NF6-212-010		GUIDE, CD	G	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
33	8A-NF6-201-010		GUIDE, FL	H	87-067-975-010		S-SCREW, IT+4-8
34	8B-NF6-217-010		HLDR, PWB FR	I	87-721-097-410		QT2+3-12 GLD
35	87-NF4-216-010		HLDR, LOCK 1	J	87-B10-315-010		BVIT3B+3-8 R W/O
36	86-NF9-224-010		SPR-C, LOCK	K	87-078-200-010		S-SCREW, ITC+4-8 R
37	82-NF5-229-010		PLATE, LOCK	L	87-721-095-410		QT2+3-8 W/O SLOT
38	87-NF4-217-110		HLDR, LOCK 2	M	8B-NF6-220-010		W, 3.5-8-0.5 W/ADH
39	8B-NF6-213-010		PLATE, EARTH MIC	N	87-591-095-410		QIT+3-8
40	8B-NF6-006-010		WINDOW, TRAY				

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



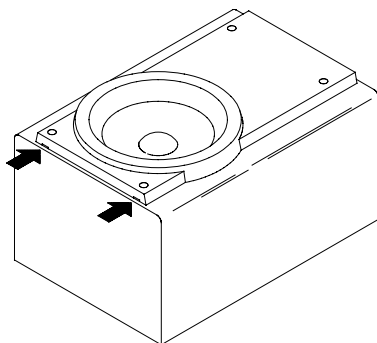
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-335-310		PULLEY, COUPLER M3	36	82-ZM3-340-010		SH, BELT D2
2	87-B10-043-010		W-P, 0.99-4-0.25 SLT	37	82-ZM1-242-010		LVR, CAS
3	86-ZM1-206-010		BELT, MAIN L	38	82-ZM1-244-510		SPR-C, BT
4	82-ZM1-322-010		SPR-T, FR 60	39	82-ZM1-243-010		LVR, STOP
5	82-ZM1-220-210		GEAR, IDLER	40	82-ZM1-240-110		LVR, REC (*)
6	82-ZM3-616-010		RING MAGNET 4	41	82-ZM1-264-010		LVR, EJECT R
7	82-ZM3-348-010		LEVER ASSY, PINCH YL	42	82-ZM3-627-010		SOL ASSY, 27 SO
8	82-ZM1-258-210		SPR-T, PINCH L	43	82-ZM1-241-310		LVR, MC
9	87-A91-195-110		HEAD, RPH KC9142 FPC	44	82-ZM1-208-310		HLD, HEAD
10	82-ZM3-342-010		BELT, SBU MOT 3	45	87-A91-196-110		HEAD, PH KP9142 FPC
11	82-ZM1-338-110		BELT, FR 4	46	82-ZM1-314-110		PLATE, HEAD
12	09-001-420-010		FLY-WHL, R ASSY	47	82-ZM1-207-910		GUIDE, TAPE
13	82-ZM3-333-310		SLIP DISK ASSY 2	48	82-ZM3-353-010		SPR-T, HEAD 2
14	82-ZM3-334-010		PW 2.16-6-0.4	49	82-ZM1-210-110		GEAR, H T
15	82-ZM3-306-110		LVR, FR M2	50	82-ZM1-219-110		SPR-T, LINK
16	82-ZM1-225-210		GEAR, FR	51	82-ZM1-269-210		SPR-T, BRG
17	82-ZM3-305-310		GEAR, CAM M2 (*)	52	82-ZM1-218-010		SPR-E, HB
18	82-ZM1-226-010		GEAR, REW	53	82-ZM1-206-910		CHAS, HEAD
19	82-ZM1-216-510		GEAR, REEL	54	82-ZM1-266-310		LVR, DIR
20	82-ZM1-227-310		LVR, TRIG	55	82-ZM1-214-010		SPR-T, DIR
21	82-ZM1-265-310		SPR-E, TRIG	56	82-ZM3-221-210		PULLEY, MOT 2M
22	82-ZM3-351-010		HLD, IC 2	57	82-ZM3-301-610		CHAS ASSY, M2
23	82-ZM3-343-010		LEVER ASSY, PINCH YR	58	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
24	82-ZM1-259-210		SPR-T, PINCH R	59	82-ZM3-329-410		BELT, SBU R2
25	82-ZM1-234-310		FLY-WHL, L ASSY	60	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
26	82-ZM1-237-610		FLY-WHL, R ASSY	A	80-ZM6-207-010		V+1.6-7
27	82-ZM3-339-110		SHAFT, COUPLER N3	B	86-ZM4-206-110		S-SCREW, AZIMUTH L
28	82-ZM1-255-310		SPR-E, LVR DIR	C	85-ZM3-202-010		S-SCREW, TG
29	82-ZM1-217-410		REEL TABLE	D	82-ZM3-222-010		S-SCREW, SHIELD PLATE
30	82-ZM1-285-410		SPR-C, BT L	E	82-ZM3-318-110		S-SCREW W, MOTOR M2
31	82-ZM1-333-210		PLATE, LINK2				
32	82-ZM1-222-310		LVR, PLAY (*)				
33	82-ZM3-307-010		CUSH-G, DIA 3.7-8-3.2				
34	87-045-347-010		MOT, SHU2L 70				
35	82-ZM1-257-010		SPR-T, CAS				

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

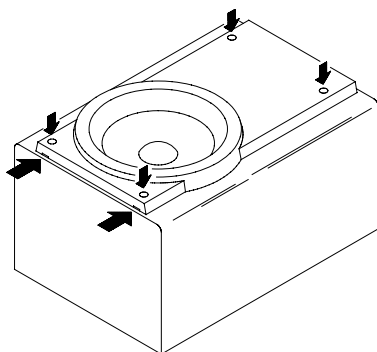
Type.1

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.



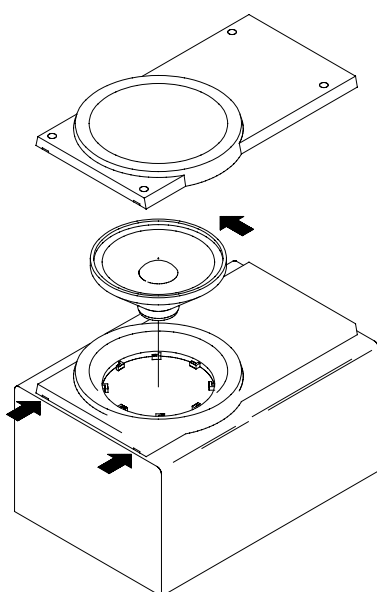
Type.2

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.

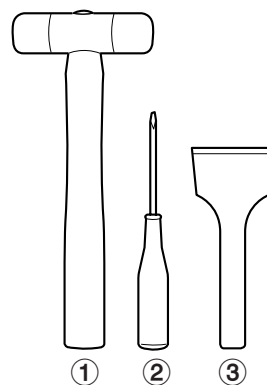


Type.3

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.

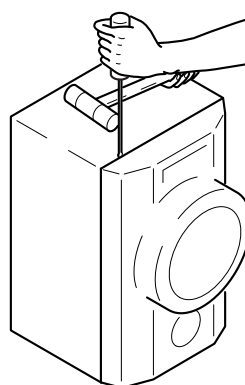


Fig-1

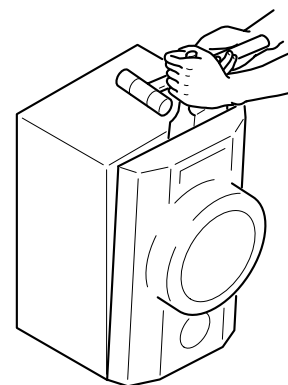


Fig-2

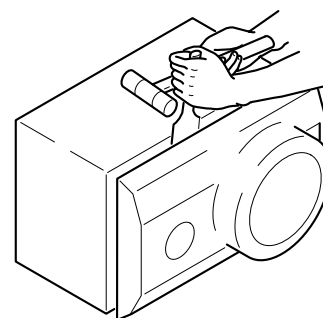


Fig-3

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-WNSZ900) <YLSL>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS6-001-010		PANEL, FR A
2	8B-NS7-002-010		PANEL, SP A
3	8B-NS7-003-010		PANEL, SP B
4	8B-NS7-005-010		PANEL, BA A
5	8B-NS7-004-010		PANEL, DUCT
6	8B-NS8-007-010		PROTECTOR, M
7	8B-NS6-604-010		SPKR, W 200 40/4
8	8B-NS7-604-010		SPKR, M 100W
9	88-NSK-610-010		SPKR, CERAMIC ASSY
10	88-NS5-610-010		CORD, SPKR

SPEAKER PARTS LIST (SX-S85) <YLSL>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS7-009-010		PANEL, FR
2	8B-NS7-011-010		GRILLE, FRAME ASSY
3	8B-NS7-606-010		SPKR, 80
4	8B-NS7-610-010		CORD, 5.0

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF6-902-010		IB, LH (ESP) M
2	8B-NF6-701-010		RC UNIT, RC-BAS04
3	87-006-268-010		ANT, LOOP AM
4	87-043-115-010		FEEDER-ANT, FM
△ 5	87-A91-017-010		PLUG CONVERSION, JT-0476

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