

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
BASIC CD MECHANISM : 6ZG-1 ZRNDM

SYSTEM	CD CASSEIVER	SPEAKERS	REMOTE CONTROL
NSX-T99	CX-NT99	SX-WNT99	RC-ZAS04
NSX-T99E	CX-NT99E		

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" NSX-T99/T99E, (S/M Code No. 09-002-426-5T1).
- If requiring information about the CD mechanisim, see Service Manual of 6ZG-1, (S/M Code No. 09-001-338-7N2)

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	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output*	Rated: 56 W + 56 W (8 ohms, THD 1 %,1 kHz) Reference: 70 W + 70 W (8 ohms, THD 10 %,1 kHz)
Total harmonic distortion	0.3 % (28 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output*	Rated: 167 W + 167 W (6 ohms, THD 1 %,75 Hz) Reference: 210 W + 210 W (6 ohms, THD 10 %,75 Hz)
Total harmonic distortion	0.3 % (84 W,75 Hz,6 ohms, DIN AUDIO)

* without connecting to surround speakers

Inputs	VIDEO/AUX : 300 mV (adjustable) MD : 300 mV (adjustable) MIC1,MIC2 : 1.0 mV (10 kohms)
---------------	--

Outputs

LINE OUT : 150 mV
SPEAKERS HIGH FREQ :
accept speakers of 8 ohms or more
SPEAKERS LOW FREQ :
accept speakers of 6 ohms or more
SURROUND SPEAKERS : accept
speakers of 8 to 16 ohms
PHONES (stereo jack) : accepts
headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal to noise ratio	60dB (Dolby B NR ON, CrO2 tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/Playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-WNT99>

Cabinet type	4 way, built-in subwoofer
Speakers	Subwoofer : 200 mm ($7\frac{7}{8}$ in.) cone type Mid range: 100 mm ($3\frac{15}{16}$ in.) cone type Tweeter : 60 mm ($2\frac{3}{8}$ in.) cone type Super Tweeter : 20 mm ($\frac{13}{16}$ in.) ceramic type

6 ohms / 8 ohms

Impedance	87 dB/W/m
Output sound pressure level	260 x 463 x 314 mm ($10\frac{1}{4}$ x $18\frac{1}{4}$ x $12\frac{3}{8}$ in.)
Dimensions (W x H x D)	8.0 kg (17 lbs. 10 oz)

Weight

<General>

Power requirements	120 V/220-230 V/240 V (switchable) 50/60Hz
Power consumption	275W
Dimensions of main unit	300 x 382.6 x 396.4mm ($11\frac{7}{8}$ x $15\frac{1}{8}$ x $15\frac{5}{8}$ in.)
Weight of main unit	13.7 kg (30 lbs. 3 oz)

Standby power consumption

If the power-economizing mode is OFF: 36 W

If the power-economizing mode is ON: 0.9 W

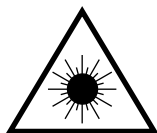
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

WARNING!

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

CAUTION

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

ATTENTION

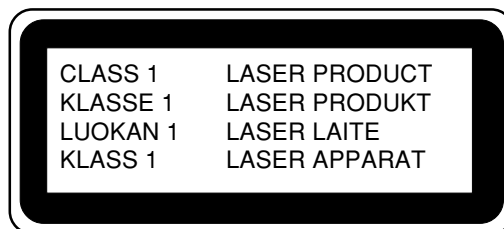
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

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

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

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

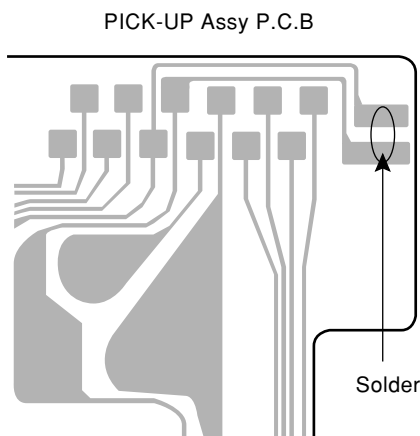


Precaution to replace Optical block

(KSS-213F)

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

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



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

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

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

Discharge procedure

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

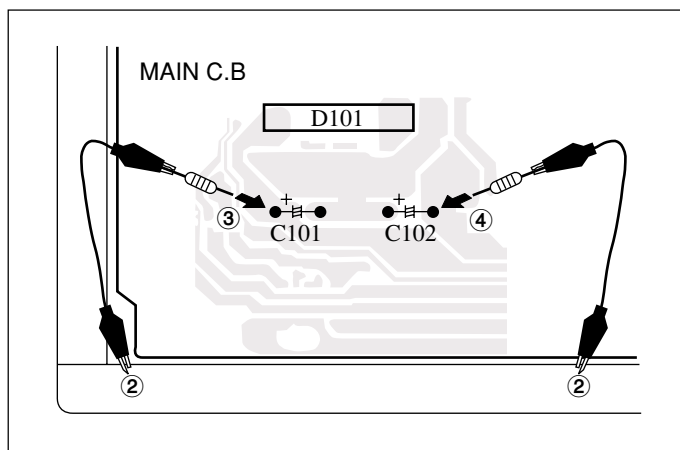


Fig-1

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.

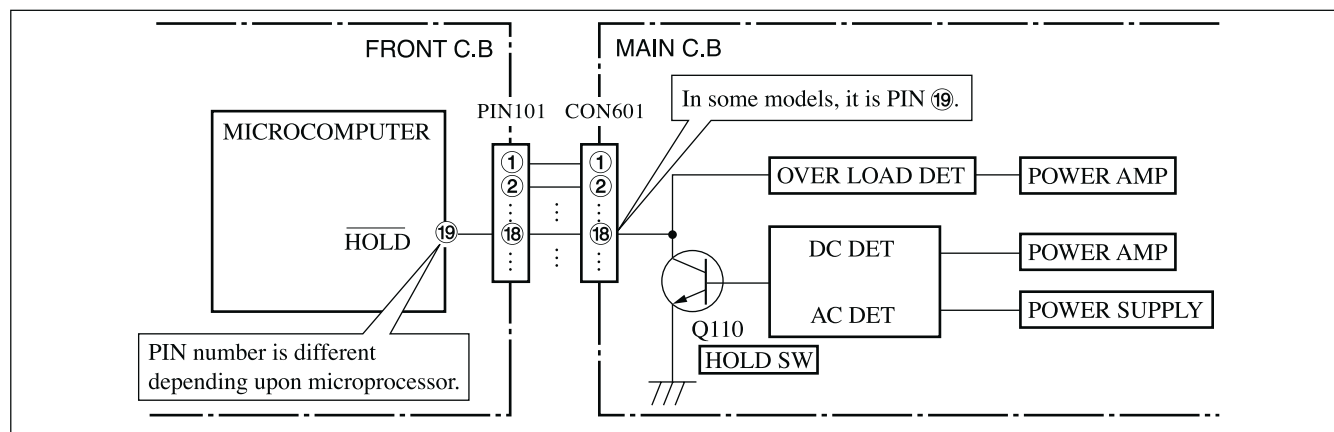


Fig-2-1

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.

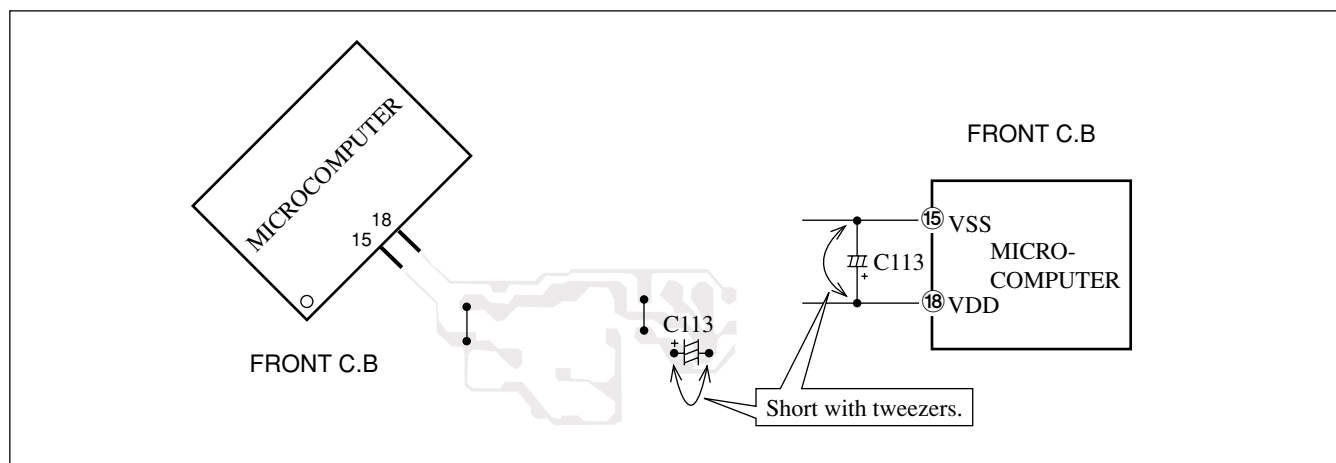


Fig-2-2

- 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				MAIN C.B			
	8A-NF3-635-010		C-IC,LC876580W-5P43	C3	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-482-010		IC,RPM6938-H4	C4	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-869-040		C-IC,M62449FP	C21	87-016-035-090		CAP, E 6800-35 VR
	87-A21-398-010		IC,STK490-110	C22	87-016-035-090		CAP, E 6800-35 VR
	87-A20-355-010		IC,CXA1553P	C25	87-010-990-080		CAP,E 33-100 SME<HASM>
	87-A20-783-040		C-IC,BA7762AFS	C25	87-016-285-080		CAP,E 47-100 SME<LHSM>
	87-A21-577-040		C-IC,M61506FP	C26	87-010-990-080		CAP,E 33-100 SME<HASM>
	87-070-289-040		IC,BU 2092F	C26	87-016-285-080		CAP,E 47-100 SME<LHSM>
	87-A21-021-040		C-IC,BU2099FV	C27	87-010-990-080		CAP,E 33-100 SME<HASM>
	87-A21-018-040		C-IC,M65849BFP631D	C27	87-016-285-080		CAP,E 47-100 SME<LHSM>
	87-A21-452-030		C-IC,BD3876KS2	C28	87-010-990-080		CAP,E 33-100 SME<HASM>
	87-A21-051-040		C-IC,BU9990-03FS	C28	87-016-285-080		CAP,E 47-100 SME<LHSM>
	87-A21-560-010		IC,LA1844L-A	C31	87-010-263-080		CAP, ELECT 100-10V
	87-070-127-110		IC,LC72131 D	C32	87-010-197-080		CAP, CHIP 0.01 DM
	87-020-454-010		IC,DN 6851	C34	87-010-247-080		CAP, ELECT 100-50V
TRANSISTOR				C35	87-010-380-080		CAP, ELECT 47-16V
	87-026-245-080		TR,DTC114ES	C36	87-010-381-080		CAP, ELECT 330-16V
	87-A30-217-010		TR,2SB1436(R)	C38	87-010-384-080		CAP, ELECT 100-25V
	87-A30-198-080		TR,KTC3199GR	C39	87-010-384-080		CAP, ELECT 100-25V
	89-213-702-010		TR,2SB1370 (1.8W)	C40	87-010-190-080		S CHIP F 0.01
	87-A30-218-080		TR,2SB1237(Q)				
	87-A30-087-080		C-FET,2SK2158	C60	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-086-040		C-TR,CSD1306E	C80	87-010-401-080		CAP, ELECT 1-50V
	87-A30-076-080		C-TR,2SC3052F	C81	87-010-374-080		CAP, ELECT 47-10V
	87-A30-107-070		C-TR,CMBT5401	C82	87-010-260-080		CAP, ELECT 47-25V
	87-A30-074-080		C-TR,RT1P 141C	C104	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-190-080		TR,CC5551				
	87-A30-204-010		TR,2SD2439	C105	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-205-010		TR,2SB1588	C111	87-010-401-080		CAP, ELECT 1-50V
	87-A30-106-040		C-TR,CMBT5551	C112	87-010-401-080		CAP, ELECT 1-50V
	87-A30-276-040		C-TR,DTA143EKA	C115	87-010-401-080		CAP, ELECT 1-50V
				C116	87-010-401-080		CAP, ELECT 1-50V
	87-A30-063-080		C-TR,KRA104S	C121	87-010-406-080		CAP, ELECT 22-50
	87-026-609-080		TR,KTA1266GR	C122	87-010-406-080		CAP, ELECT 22-50
	87-A30-186-010		FET,2SK3053	C151	87-010-405-080		CAP, ELECT 10-50V<HASM>
	87-A30-075-080		C-TR,2SA1235F	C163	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-329-080		TR,CD1585BC	C171	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-318-080		TR,CSA952K				
	89-327-143-080		TR,2SC2714 (0.1W)	C172	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-072-080		C-TR,RT1P 144C	C173	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-234-080		TR,CSC4115BC	C174	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-463-080		TR,2SA933S	C175	87-A11-572-080		C-CAP,S 0.015-50 K B
				C176	87-A11-572-080		C-CAP,S 0.015-50 K B
DIODE				C177	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-673-090		DIODE,D10XB20	C178	87-010-197-080		CAP, CHIP 0.01 DM
	87-017-447-010		DIODE,GBU4DL-6419	C301	87-010-318-080		C-CAP,S 47P-50 CH
	87-A40-224-010		DIODE,GBU8DL	C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-017-654-060		DIODE,GBU6JL6131	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-736-080		DIODE,1N4148M(SEM)				
	87-A40-553-080		DIODE,1N4003 LES	C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-781-080		ZENER,UZ36BSA	C305	87-012-157-080		C-CAP,S 330P-50 CH
	87-070-274-080		DIODE,1N4003 SEM	C306	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-768-080		ZENER,UZ16BSA	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-154-080		ZENER,HZS6C3L	C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-488-080		DIODE,1SS244				
	87-020-331-080		CHIP-DIODE,DAN202K	C312	87-010-198-080		CAP, CHIP 0.022
	87-A40-313-080		C-DIODE,MC 2840	C313	87-010-180-080		C-CER 1500P
	87-A40-270-080		C-DIODE,MC2838	C314	87-010-180-080		C-CER 1500P
	87-A40-751-080		ZENER,UZ6.2BSB	C315	87-010-178-080		CHIP CAP 1000P
				C316	87-010-178-080		CHIP CAP 1000P
	87-A40-747-080		ZENER,UZ5.1BSB				
	87-A40-646-010		DIODE,FMB-G16L	C317	87-A10-201-080		C-CAP,S0.33-16 KB
	87-A40-764-080		ZENER,UZ10BSC	C318	87-A10-201-080		C-CAP,S0.33-16 KB
	87-A40-745-080		ZENER,UZ4.7BSA	C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-749-080		ZENER,UZ5.6BSB	C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
				C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-747-080		ZENER,UZ5.1BSB				
	87-A40-646-010		DIODE,FMB-G16L	C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-764-080		ZENER,UZ10BSC	C324	87-010-260-080		CAP, ELECT 47-25V
	87-A40-745-080		ZENER,UZ4.7BSA	C325	87-010-370-080		CAP,E 330-6.3 SME
	87-A40-749-080		ZENER,UZ5.6BSB	C327	87-010-404-080		CAP, ELECT 4.7-50V
				C328	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-149-080		ZENER,HZS6A2L				
				C332	87-010-196-080		CHIP CAPACITOR,0.1-25
				C335	87-010-401-080		CAP, ELECT 1-50V
				C336	87-010-401-080		CAP, ELECT 1-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-175-080		CAP 560P
C372	87-010-175-080		CAP 560P
C373	87-010-179-080		CAP,CHIP S B1200P
C374	87-010-179-080		CAP,CHIP S B1200P
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-012-156-080		C-CAP,S 220P-50 CH
C501	87-010-263-080		CAP, ELECT 100-10V
C502	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-016-460-080		C-CAP,S 0.22-16 B
C504	87-016-460-080		C-CAP,S 0.22-16 B
C505	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C506	87-010-184-080		CHIP CAPACITOR 3300P(K)
C507	87-A11-550-080		C-CAP,S 820P-50 K B
C508	87-016-669-080		C-CAP,S 0.1-25 K B
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-184-080		CHIP CAPACITOR 3300P(K)
C511	87-A11-550-080		C-CAP,S 820P-50 K B
C512	87-016-460-080		C-CAP,S 0.22-16 B
C513	87-010-544-080		CAP, ELECT 0.1-50V
C514	87-010-374-080		CAP, ELECT 47-10V
C515	87-010-401-080		CAP, ELECT 1-50V
C516	87-010-401-080		CAP, ELECT 1-50V
C517	87-010-183-080		C-CAP,S 2700P-50 B
C518	87-010-183-080		C-CAP,S 2700P-50 B
C531	87-010-560-080		CAP,E 10-50 GAS
C532	87-010-196-080		CHIP CAPACITOR,0.1-25
C533	87-010-196-080		CHIP CAPACITOR,0.1-25
C534	87-012-156-080		C-CAP,S 220P-50 CH
C535	87-010-178-080		CHIP CAP 1000P
C536	87-010-196-080		CHIP CAPACITOR,0.1-25
C538	87-010-318-080		C-CAP,S 47P-50 CH
C541	87-010-178-080		CHIP CAP 1000P
C603	87-010-318-080		C-CAP,S 47P-50 CH
C604	87-010-318-080		C-CAP,S 47P-50 CH
C605	87-010-318-080		C-CAP,S 47P-50 CH
C606	87-010-318-080		C-CAP,S 47P-50 CH
C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C612	87-010-369-080		C-CAP,S 0.033-25 K B
C613	87-010-197-080		CAP, CHIP 0.01 DM
C614	87-016-669-080		C-CAP,S 0.1-25 K B
C616	87-010-180-080		C-CER 1500P
C617	87-010-198-080		CAP, CHIP 0.022
C618	87-010-401-080		CAP, ELECT 1-50V
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-016-669-080		C-CAP,S 0.1-25 K B
C621	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C626	87-010-992-080		C-CAP,S 0.047-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C627	87-010-400-080		CAP, ELECT 0.47-50V
C628	87-010-400-080		CAP, ELECT 0.47-50V
C629	87-010-992-080		C-CAP,S 0.047-25 B
C630	87-010-383-080		CAP, ELECT 33-25V
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP,M 0.1-50 J
C636	87-A10-307-080		CAP,M 0.1-50 J
C637	87-A10-307-080		CAP,M 0.1-50 J
C638	87-A10-307-080		CAP,M 0.1-50 J
C639	87-010-405-080		CAP, ELECT 10-50V
C641	87-010-401-080		CAP, ELECT 1-50V
C642	87-010-401-080		CAP, ELECT 1-50V
C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C644	87-010-401-080		CAP, ELECT 1-50V
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-197-080		CAP, CHIP 0.01 DM
C675	87-010-196-080		CHIP CAPACITOR,0.1-25
C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C680	87-010-197-080		CAP, CHIP 0.01 DM
C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01 DM
C773	87-010-184-080		CHIP CAPACITOR 3300P(K)
C774	87-010-184-080		CHIP CAPACITOR 3300P(K)
C782	87-010-197-080		CAP, CHIP 0.01 DM
C783	87-010-197-080		CAP, CHIP 0.01 DM
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-197-080		CAP, CHIP 0.01 DM
C786	87-010-197-080		CAP, CHIP 0.01 DM
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-012-365-080		C-CAP,S 0.027-25VBK
C790	87-012-365-080		C-CAP,S 0.027-25VBK
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01 DM
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01 DM
C796	87-010-197-080		CAP, CHIP 0.01 DM
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01 DM
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-012-369-080		C-CAP,S 0.047-50F
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-012-369-080		C-CAP,S 0.047-50F
C803	87-010-198-080		CAP, CHIP 0.022
C804	87-010-263-080		CAP, ELECT 100-10V
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-403-080		CAP, ELECT 3.3-50V
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-400-080		CAP, ELECT 0.47-50V
C816	87-010-400-080		CAP, ELECT 0.47-50V
C819	87-010-179-080		CAP,CHIP S B1200P
C820	87-010-179-080		CAP,CHIP S B1200P
C821	87-010-405-080		CAP, ELECT 10-50V
C824	87-010-405-080		CAP, ELECT 10-50V
C825	87-010-596-080		CAP, S 0.047-16
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01 DM
C974	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C979	87-010-322-080		C-CAP,S 100P-50 CH	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C981	87-010-260-080		CAP, ELECT 47-25V	C112	87-016-460-080		C-CAP,S 0.22-16 B
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C113	87-A10-189-040		CAP,E 220-10
C983	87-010-197-080		CAP, CHIP 0.01 DM	C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C984	87-010-197-080		CAP, CHIP 0.01 DM	C115	87-010-198-080		CAP, CHIP 0.022
C987	87-010-197-080		CAP, CHIP 0.01 DM	C116	87-010-493-040		CAP,E 0.47-50 GAS
C991	87-010-312-080		C-CAP,S 15P-50 CH	C117	87-010-498-040		CAP,E 10-16 GAS
C992	87-010-312-080		C-CAP,S 15P-50 CH	C118	87-010-194-080		CAP, CHIP 0.047
C993	87-010-178-080		CHIP CAP 1000P	C119	87-A10-797-040		CAP,E 47-35 M 5L SRM
C995	87-010-178-080		CHIP CAP 1000P	C120	87-015-699-040		CAP,E 10-50 7L
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C121	87-015-699-040		CAP,E 10-50 7L
C998	87-010-260-080		CAP, ELECT 47-25V	C122	87-010-197-080		CAP, CHIP 0.01 DM
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CN91	87-A60-619-010		CONN,2P V 2MM JMT	C128	87-010-178-080		CHIP CAP 1000P
CN92	87-A60-619-010		CONN,2P V 2MM JMT	C129	87-010-194-080		CAP, CHIP 0.047
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C131	87-A10-189-040		CAP,E 220-10
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C132	87-A10-189-040		CAP,E 220-10
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C151	87-010-194-080		CAP, CHIP 0.047
CN601	87-099-719-010		CONN,30P TYK-B(X)	C192	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
CN602	87-A60-131-010		CONN,6P V FE	C196	87-010-194-080		CAP, CHIP 0.047
CN605	87-099-568-010		CONN,11P TUC-P11P-B1	C197	87-010-194-080		CAP, CHIP 0.047
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C213	87-A10-189-040		CAP,E 220-10
CNA2	8A-NF3-640-110		CONN ASSY,3P (VM) ANF-3	C301	87-010-318-080		C-CAP,S 47P-50 CH
FB501	87-008-372-080		FILTER, EMI BL OIRNI	C303	87-016-460-080		C-CAP,S 0.22-16 B
FFC302	88-906-481-110		FF-CABLE,6P 1.25 480MM	C304	87-016-460-080		C-CAP,S 0.22-16 B
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C305	87-010-196-080		CHIP CAPACITOR,0.1-25
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)	C306	87-010-196-080		CHIP CAPACITOR,0.1-25
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C310	87-010-067-040		CAP,E 0.1-50 5L
J601	87-A60-885-010		JACK,PIN 6P R/W MSC	C701	87-010-981-040		CAP,E 22-35 5L SRE
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C801	87-012-156-080		C-CAP,S 220P-50 CH
L101	87-A50-610-010		COIL,1UH K(MDEC)	C802	87-010-176-080		C-CAP,S 680P-50 SL
L102	87-A50-610-010		COIL,1UH K(MDEC)	C803	87-010-187-080		CAP CHIP S5600P
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C804	87-010-213-080		C-CAP,S 0.015-50 B
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C805	87-010-197-080		CAP, CHIP 0.01 DM
L351	87-007-342-010		COIL,OSC 85K BIAS	C806	87-010-071-040		CAP,E 1-50 M 5L SRE
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C807	87-010-197-080		CAP, CHIP 0.01 DM
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	C809	87-012-155-080		C-CAP 180P-50CH
L811	87-005-847-080		COIL,2.2UH(CECS)	C810	87-010-264-040		CAP,E 100-10 5L
L821	87-A50-209-010		COIL,1POLE MPX(MIT)	C811	87-010-244-040		CAP,E 22-16 5L
L822	87-A50-209-010		COIL,1POLE MPX(MIT)	C812	87-016-044-040		CAP,E 100-16 GAS
L832	87-005-847-080		COIL,2.2UH(CECS)	C821	87-010-196-080		CHIP CAPACITOR,0.1-25
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)	C833	87-010-322-080		C-CAP,S 100P-50 CH
R161	87-A00-441-050		RES,270-1/2W J RP	C901	87-012-157-080		C-CAP,S 330P-50 CH
R162	87-A00-441-050		RES,270-1/2W J RP	C902	87-010-176-080		C-CAP,S 680P-50 SL
R163	87-A00-441-050		RES,270-1/2W J RP	C903	87-010-176-080		C-CAP,S 680P-50 SL
R164	87-A00-441-050		RES,270-1/2W J RP	C904	87-010-176-080		C-CAP,S 680P-50 SL
R790	87-010-197-080		CAP, CHIP 0.01 DM	C905	87-010-176-080		C-CAP,S 680P-50 SL
R991	87-010-322-080		C-CAP,S 100P-50 CH	C906	87-010-176-080		C-CAP,S 680P-50 SL
R993	87-010-322-080		C-CAP,S 100P-50 CH	C907	87-010-176-080		C-CAP,S 680P-50 SL
R995	87-010-322-080		C-CAP,S 100P-50 CH	C908	87-010-176-080		C-CAP,S 680P-50 SL
SFR301	87-024-355-080		SFR,33K DIA6 H	C909	87-010-176-080		C-CAP,S 680P-50 SL
SFR302	87-024-355-080		SFR,33K DIA6 H	C910	87-010-176-080		C-CAP,S 680P-50 SL
SFR303	87-024-355-080		SFR,33K DIA6 H	C911	87-010-176-080		C-CAP,S 680P-50 SL
SFR304	87-024-355-080		SFR,33K DIA6 H	C912	87-010-176-080		C-CAP,S 680P-50 SL
SFR305	87-024-356-080		SFR,47K DIA6 H	C913	87-010-176-080		C-CAP,S 680P-50 SL
SFR306	87-024-356-080		SFR,47K DIA6 H	C914	87-012-145-080		CAP, CHIP S 270P CH
SFR351	87-024-356-080		SFR,47K DIA6 H	CN101	87-099-720-010		CONN,30P TYK-B(P)
SFR352	87-024-356-080		SFR,47K DIA6 H	CN102	87-A60-054-010		CONN,14P V 9604S-14C
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	CN103	87-099-750-010		CONN,15P V 9604SC
DISPLAY C.B				CN601	87-A60-062-010		CONN,05P V 9604S-05C
C103	87-010-196-080		CHIP CAPACITOR,0.1-25	CN701	87-099-750-010		CONN,15P V 9604SC
C104	87-010-313-080		CAP, CHIP 18P	FFC102	88-914-481-110		FF-CABLE,14P 1.25 480MM
C105	87-010-322-080		C-CAP,S 100P-50 CH	FFC104	88-915-161-110		FF-CABLE,15P 1.25
C106	87-012-145-080		CAP, CHIP S 270P CH	FFC601	88-905-081-110		FF-CABLE,5P 1.25
C107	87-012-157-080		C-CAP,S 330P-50 CH	FFC701	88-915-161-110		FF-CABLE,15P 1.25
C108	87-015-681-040		E/CAP 10-16	FL101	8A-NF3-613-010		FL,BJ752GK-ANF3
C109	87-010-401-040		CAP,E 1-50 SME	JW315	87-A90-896-080		F-BEAD, 035600STY7
				JW316	87-A90-896-080		F-BEAD, 035600STY7
				L101	87-A50-333-010		COIL,OSC 9.43MHZ

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ	S213	87-A90-095-080	SW, TACT	EVQ11G04M
L802	87-003-098-080		COIL,2.2UH	S214	87-A90-095-080	SW, TACT	EVQ11G04M
CD KEY C.B				S215	87-A90-095-080	SW, TACT	EVQ11G04M
CN301	87-A60-079-010		CONN,08P H 9604S-08F	S216	87-A90-095-080	SW, TACT	EVQ11G04M
FFC302	88-908-381-110		FF-CABLE,8P 1.25	S217	87-A90-095-080	SW, TACT	EVQ11G04M
LED311	87-A40-380-180		LED,SEL6510C-TP5 GRN	S221	87-A90-095-080	SW, TACT	EVQ11G04M
LED312	87-A40-380-180		LED,SEL6510C-TP5 GRN	S222	87-A90-095-080	SW, TACT	EVQ11G04M
LED313	87-A40-380-180		LED,SEL6510C-TP5 GRN	S223	87-A90-095-080	SW, TACT	EVQ11G04M
LED314	87-A40-380-180		LED,SEL6510C-TP5 GRN	S224	87-A90-095-080	SW, TACT	EVQ11G04M
LED315	87-A40-380-180		LED,SEL6510C-TP5 GRN	S225	87-A90-095-080	SW, TACT	EVQ11G04M
S311	87-A90-095-080		SW, TACT EVQ11G04M	S226	87-A90-095-080	SW, TACT	EVQ11G04M
S312	87-A90-095-080		SW, TACT EVQ11G04M	S227	87-A90-095-080	SW, TACT	EVQ11G04M
S313	87-A90-095-080		SW, TACT EVQ11G04M	S228	87-A90-095-080	SW, TACT	EVQ11G04M
S314	87-A90-095-080		SW, TACT EVQ11G04M	S229	87-A90-095-080	SW, TACT	EVQ11G04M
S315	87-A90-095-080		SW, TACT EVQ11G04M	S230	87-A90-095-080	SW, TACT	EVQ11G04M
S316	87-A90-095-080		SW, TACT EVQ11G04M	S231	87-A90-095-080	SW, TACT	EVQ11G04M
S317	87-A90-095-080		SW, TACT EVQ11G04M	S232	87-A90-095-080	SW, TACT	EVQ11G04M
CONTROL C.B				S241	87-A90-095-080	SW, TACT	EVQ11G04M
C401	87-010-196-080		CHIP CAPACITOR,0.1-25	S242	87-A90-095-080	SW, TACT	EVQ11G04M
C407	87-010-322-080		C-CAP,S 100P-50 CH	S243	87-A90-095-080	SW, TACT	EVQ11G04M
C410	87-010-196-080		CHIP CAPACITOR,0.1-25	S244	87-A90-095-080	SW, TACT	EVQ11G04M
C417	87-010-322-080		C-CAP,S 100P-50 CH	S245	87-A90-095-080	SW, TACT	EVQ11G04M
C423	87-010-196-080		CHIP CAPACITOR,0.1-25	S246	87-A90-095-080	SW, TACT	EVQ11G04M
C424	87-010-196-080		CHIP CAPACITOR,0.1-25	S247	87-A90-095-080	SW, TACT	EVQ11G04M
C501	87-010-178-080		CHIP CAP 1000P	S248	87-A90-095-080	SW, TACT	EVQ11G04M
C502	87-012-156-080		C-CAP,S 220P-50 CH	S249	87-A90-095-080	SW, TACT	EVQ11G04M
C531	87-010-196-080		CHIP CAPACITOR,0.1-25	S250	87-A90-095-080	SW, TACT	EVQ11G04M
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	S251	87-A90-095-080	SW, TACT	EVQ11G04M
CN104	87-099-750-010		CONN,15P V 9604SC	SW501	87-A91-739-010	SW, RTRY	EC12E12404-25MM RT
CN302	87-A60-059-010		CONN,08P V 9604S-08C	VOLUME C.B			
LED101	87-A40-317-080		LED,SLR-342VCT31 RED	C161	87-010-178-080	CHIP CAP 1000P	
LED421	87-A40-831-010		LED,SELU1E10CXM-LF70 BLUE-DEF	C162	87-012-156-080	C-CAP,S 220P-50 CH	
LED422	87-A40-831-010		LED,SELU1E10CXM-LF70 BLUE-DEF	S511	87-A90-095-080	SW, TACT	EVQ11G04M
LED440	87-A40-380-180		LED,SEL6510C-TP5 GRN	S512	87-A90-095-080	SW, TACT	EVQ11G04M
LED441	87-A40-380-180		LED,SEL6510C-TP5 GRN	S513	87-A90-095-080	SW, TACT	EVQ11G04M
LED442	87-A40-380-180		LED,SEL6510C-TP5 GRN	S514	87-A90-095-080	SW, TACT	EVQ11G04M
LED443	87-A40-380-180		LED,SEL6510C-TP5 GRN	S515	87-A90-095-080	SW, TACT	EVQ11G04M
LED444	87-A40-380-180		LED,SEL6510C-TP5 GRN	SW101	87-A91-740-010	SW, RTRY	EC12E24308-30MM
LED445	87-A40-380-180		LED,SEL6510C-TP5 GRN	MIC C.B			
LED446	87-A40-380-180		LED,SEL6510C-TP5 GRN	C601	87-010-196-080	CHIP CAPACITOR,0.1-25	
LED447	87-A40-380-180		LED,SEL6510C-TP5 GRN	C602	87-010-186-080	CAP,CHIP 4700P	
LED448	87-A40-380-180		LED,SEL6510C-TP5 GRN	C603	87-010-112-040	CAP,E 100-16	
LED449	87-A40-380-180		LED,SEL6510C-TP5 GRN	C604	87-010-405-040	CAP,E 10-50	
LED451	87-A40-537-040		LED,SLR-56PT-T31-W	C605	87-010-546-040	CAP,E 0.33-50	
LED452	87-A40-537-040		LED,SLR-56PT-T31-W	C606	87-010-320-080	CHIP CAP 68P	
LED453	87-A40-537-040		LED,SLR-56PT-T31-W	C608	87-012-157-080	C-CAP,S 330P-50 CH	
LED454	87-A40-537-040		LED,SLR-56PT-T31-W	C621	87-010-178-080	CHIP CAP 1000P	
LED455	87-A40-537-040		LED,SLR-56PT-T31-W	CN602	87-A60-082-010	CONN,05P H 9604S-05F	
LED456	87-A40-537-040		LED,SLR-56PT-T31-W	J601	87-A61-242-010	JACK,6.3 BLK MONO W/SW V KM	
LED461	87-A40-317-080		LED,SLR-342VCT31 RED	J602	87-A61-242-010	JACK,6.3 BLK MONO W/SW V KM	
LED462	87-A40-317-080		LED,SLR-342VCT31 RED	L601	87-003-098-080	COIL,2.2UH	
LED463	87-A40-317-080		LED,SLR-342VCT31 RED	AMP C.B			
LED464	87-A40-317-080		LED,SLR-342VCT31 RED	C101	87-010-188-080	CAP,CHIP 6800P	
LED465	87-A40-317-080		LED,SLR-342VCT31 RED	C102	87-010-188-080	CAP,CHIP 6800P	
LED521	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF	C103	87-010-405-080	CAP, ELECT 10-50V	
LED522	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF	C104	87-010-405-080	CAP, ELECT 10-50V	
S201	87-A90-095-080		SW, TACT EVQ11G04M	C107	87-010-404-080	CAP, ELECT 4.7-50V	
S202	87-A90-095-080		SW, TACT EVQ11G04M	C108	87-010-404-080	CAP, ELECT 4.7-50V	
S203	87-A90-095-080		SW, TACT EVQ11G04M	C111	87-010-322-080	C-CAP,S 100P-50 CH	
S204	87-A90-095-080		SW, TACT EVQ11G04M	C112	87-010-322-080	C-CAP,S 100P-50 CH	
S205	87-A90-095-080		SW, TACT EVQ11G04M	C113	87-A10-812-080	C-CAP,S 220P-200 J CH	
S206	87-A90-095-080		SW, TACT EVQ11G04M	C114	87-A10-812-080	C-CAP,S 220P-200 J CH	
S207	87-A90-095-080		SW, TACT EVQ11G04M	C119	87-010-197-080	CAP, CHIP 0.01 DM	
S208	87-A90-095-080		SW, TACT EVQ11G04M	C120	87-010-197-080	CAP, CHIP 0.01 DM	
S211	87-A90-095-080		SW, TACT EVQ11G04M				
S212	87-A90-095-080		SW, TACT EVQ11G04M				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C121	87-010-260-080		CAP, ELECT 47-25V	C23	87-A10-231-090		CAP,E 3300-80
C122	87-010-260-080		CAP, ELECT 47-25V	C24	87-A11-148-080		CAP,TC U 0.1-50 Z F
C173	87-010-186-080		CAP,CHIP 4700P	C25	87-A11-148-080		CAP,TC U 0.1-50 Z F
C174	87-010-186-080		CAP,CHIP 4700P	C27	87-A11-148-080		CAP,TC U 0.1-50 Z F
C205	87-010-187-080		CAP,CHIP S5600P	C28	87-A11-148-080		CAP,TC U 0.1-50 Z F
C206	87-010-187-080		CAP,CHIP S5600P	C29	87-A11-148-080		CAP,TC U 0.1-50 Z F
C207	87-010-403-080		CAP, ELECT 3.3-50V	C30	87-A11-148-080		CAP,TC U 0.1-50 Z F
C208	87-010-403-080		CAP, ELECT 3.3-50V	C31	87-A11-148-080		CAP,TC U 0.1-50 Z F
C209	87-010-184-080		CHIP CAPACITOR 3300P(K)	C32	87-A11-148-080		CAP,TC U 0.1-50 Z F
C210	87-010-184-080		CHIP CAPACITOR 3300P(K)	C33	87-A11-148-080		CAP,TC U 0.1-50 Z F
C211	87-010-401-080		CAP, ELECT 1-50V	C34	87-A11-148-080		CAP,TC U 0.1-50 Z F
C212	87-010-401-080		CAP, ELECT 1-50V	C35	87-A11-148-080		CAP,TC U 0.1-50 Z F
C215	87-012-156-080		C-CAP,S 220P-50 CH	C36	87-A11-148-080		CAP,TC U 0.1-50 Z F
C216	87-012-156-080		C-CAP,S 220P-50 CH	C37	87-A11-148-080		CAP,TC U 0.1-50 Z F
C217	87-010-260-080		CAP, ELECT 47-25V	C38	87-A11-148-080		CAP,TC U 0.1-50 Z F
C218	87-010-260-080		CAP, ELECT 47-25V	CN1	87-A61-110-010		CONN,9P V TID-A
C221	87-016-100-080		CAP, ELECT 10-50 M BP SME	CN2	87-A61-109-010		CONN,7P V TID-A
C222	87-016-100-080		CAP, ELECT 10-50 M BP SME	△ F101	87-035-459-010		FUSE,5A 250V
C223	87-010-197-080		CAP, CHIP 0.01 DM	△ F102	87-035-459-010		FUSE,5A 250V
C224	87-010-197-080		CAP, CHIP 0.01 DM	△ FB101	87-A90-562-010		F-BEAD,9.5-17.5-28.5 BRH
C249	87-012-368-080		C-CAP,S 0.1-50 F	△ FC1	87-033-213-080		FUSE CLAMP,PFC5000
C251	87-010-993-080		C-CAP,S 0.056-25 B	△ FC2	87-033-213-080		FUSE CLAMP,PFC5000
C252	87-010-196-080		CHIP CAPACITOR,0.1-25	△ FC3	87-033-213-080		FUSE CLAMP,PFC5000
C253	87-010-196-080		CHIP CAPACITOR,0.1-25	△ FC4	87-033-213-080		FUSE CLAMP,PFC5000
C254	87-010-993-080		C-CAP,S 0.056-25 B	△ PR1	87-026-682-080		PROTECTOR,10A 60V491
C255	87-010-190-080		S CHIP F 0.01	△ PR2	87-026-682-080		PROTECTOR,10A 491 SERIES 60V
C256	87-010-190-080		S CHIP F 0.01	△ PR3	87-A90-195-080		PROTECTOR,7A 125V 49
C265	87-010-260-080		CAP,E 47-25V	△ PR4	87-A90-195-080		PROTECTOR,7A 125V 49
C402	87-010-196-080		CHIP CAPACITOR,0.1-25	△ PR5	87-A90-195-080		PROTECTOR,7A 125V 49
C413	87-A10-119-080		CAP,E 10-100 REA	△ PR6	87-A90-195-080		PROTECTOR,7A 125V 49
C414	87-A10-119-080		CAP,E 10-100 REA	△ PR7	87-026-682-080		PROTECTOR,10A 491 SERIES 60V
CNA101	8A-NF8-652-010		CONN ASSY,7P TID-A(480)	△ PR8	87-026-682-080		PROTECTOR,10A 491 SERIES 60V
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	△ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H)KAMI
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	△ PT101	8A-NF3-602-010		PT,LH EI105-60 ANF-3
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE	△ RY2	87-A91-300-010		RELAY,AC 12V-ALA2PF12
JW138	87-A90-896-080		F-BEAD, 035600STY7	△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
JW944	87-A90-896-080		F-BEAD, 035600STY7	△ T1	87-A60-317-010		TERMINAL, 1P MSC
L251	87-A50-610-010		COIL,1UH K(MDEC)	△ T2	87-A60-317-010		TERMINAL, 1P MSC
L252	87-A50-610-010		COIL,1UH K(MDEC)				
R161	87-A00-418-010		RES,M/F 0.15-3W J	VM C.B			
R162	87-A00-418-010		RES,M/F 0.15-3W J				
R165	87-A00-418-010		RES,M/F 0.15-3W J	CNA3	87-049-919-010		CONN,3P EH V WHT
R166	87-A00-418-010		RES,M/F 0.15-3W J				
R231	87-A00-669-080		RES,M/F 0.22-2W J RA	GEQ C.B			
R232	87-A00-669-080		RES,M/F 0.22-2W J RA				
R243	87-A00-669-080		RES,M/F 0.22-2W J RA	C201	87-010-402-080		CAP, ELECT 2.2-50V
R244	87-A00-669-080		RES,M/F 0.22-2W J RA	C202	87-010-402-080		CAP, ELECT 2.2-50V
TH101	87-A91-042-080		C-THMS,100K 55001	C205	87-010-404-080		CAP, ELECT 4.7-50V
TH102	87-A91-042-080		C-THMS,100K 55001	C207	87-016-669-080		C-CAP,S 0.1-25 K B
WH101	87-A90-460-010		HLD R,WIRE 2.5-7P	C208	87-016-669-080		C-CAP,S 0.1-25 K B
PT C.B				C209	87-016-460-080		C-CAP,S 0.22-16 B
C1	87-010-387-080		CAP,E 470-25 SME	C210	87-016-460-080		C-CAP,S 0.22-16 B
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F	C211	87-012-365-080		C-CAP,S 0.027-25VBK
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F	C212	87-012-365-080		C-CAP,S 0.027-25VBK
C6	87-010-917-000		CAP,E 3300-50 M SMG	C213	87-010-956-080		CHIP-CAP,S 0.068-25B
C7	87-010-917-000		CAP,E 3300-50 M SMG	C214	87-010-956-080		CHIP-CAP,S 0.068-25B
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F	C215	87-010-197-080		CAP, CHIP 0.01 DM
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F	C216	87-010-197-080		CAP, CHIP 0.01 DM
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F	C217	87-010-198-080		CAP, CHIP 0.022
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F	C218	87-010-198-080		CAP, CHIP 0.022
C12	87-010-917-000		CAP,E 3300-50 M SMG	C219	87-010-183-080		C-CAP,S 2700P-50 B
C13	87-010-917-000		CAP,E 3300-50 M SMG	C220	87-010-183-080		C-CAP,S 2700P-50 B
C16	87-010-403-040		CAP,E 3.3-50 SME	C221	87-010-188-080		CAP,CHIP 6800P
C18	87-A11-148-080		CAP,TC U 0.1-50 Z F	C222	87-010-188-080		CAP,CHIP 6800P
C19	87-A11-148-080		CAP,TC U 0.1-50 Z F	C223	87-010-178-080		CHIP CAP 1000P
C20	87-A11-148-080		CAP,TC U 0.1-50 Z F	C224	87-010-178-080		CHIP CAP 1000P
C21	87-A11-148-080		CAP,TC U 0.1-50 Z F	C225	87-010-182-080		C-CAP,S 2200P-50 B
C22	87-A10-231-090		CAP,E 3300-80	C226	87-010-182-080		C-CAP,S 2200P-50 B
				C227	87-010-112-080		CAP, ELECT 100-16V
				C228	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C229	87-010-322-080		C-CAP,S 100P-50 CH
C230	87-010-322-080		C-CAP,S 100P-50 CH
C231	87-010-322-080		C-CAP,S 100P-50 CH
CN201	87-A60-546-010		CONN,11P H GRY TUC-P11X-C1

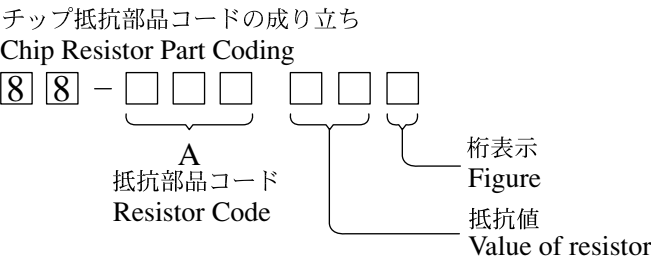
DECK C.B

CN502	87-099-756-010	CONN,15P 9604S F
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-A90-248-010	SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010	SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010	SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010	SW,MICRO SPPB62

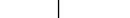
HEAD-1 C.B

HEAD-2 C.B

○チップ抵抗部品コード／CHIP RESISTOR PART CODE



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
				外形／Form	L	W	t	Resistor Code : A
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

KTA1266GR
KTC3199GR
CSA952K



E C B

CC5551



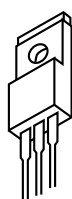
E C B

DTC114ES
2SA933S



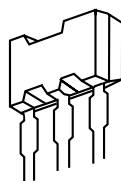
E C B

2SB1436



B C E

2SB1370
2SB1588
2SD2439



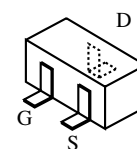
E C B

2SB1237Q

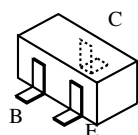


G D S

2SK3053



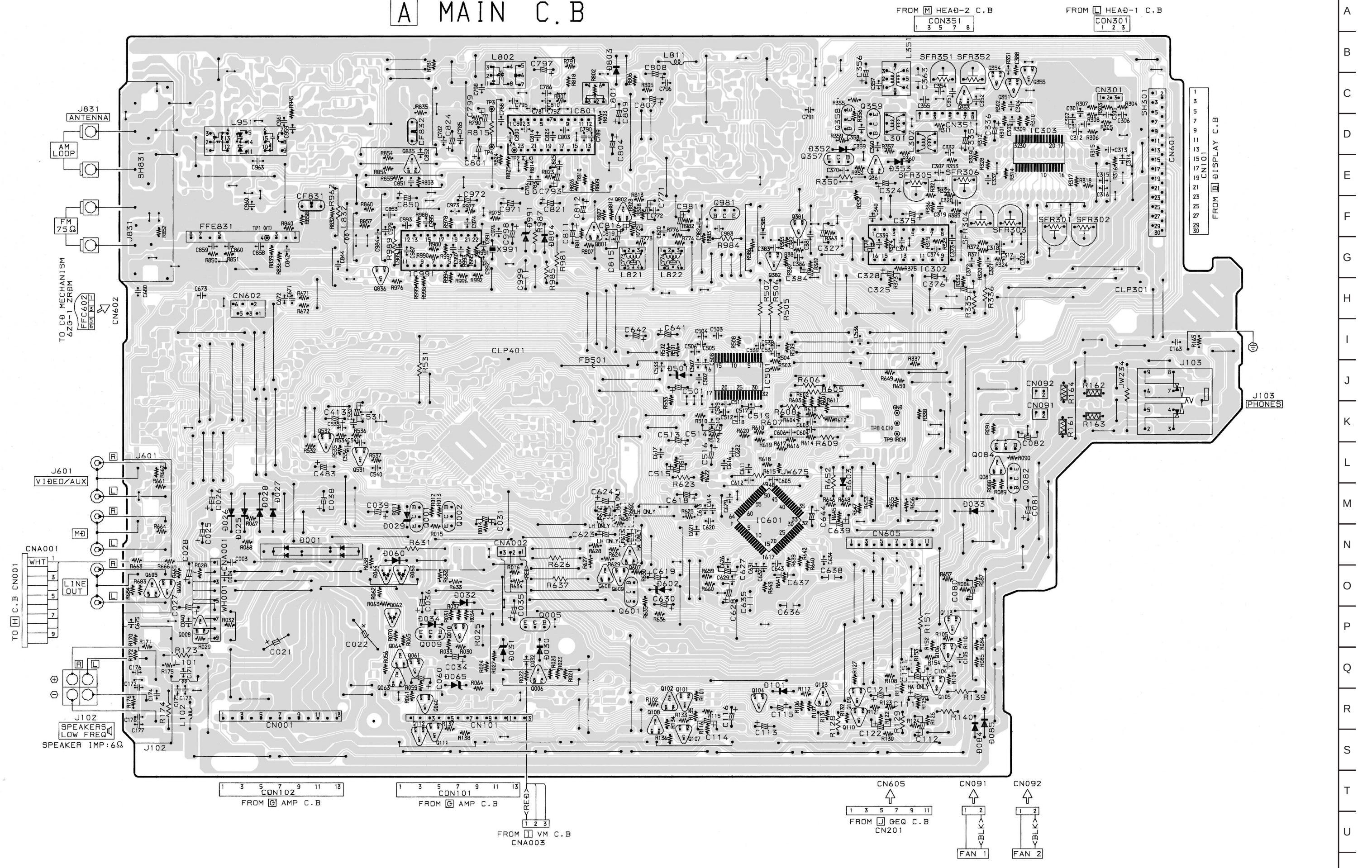
2SK2158



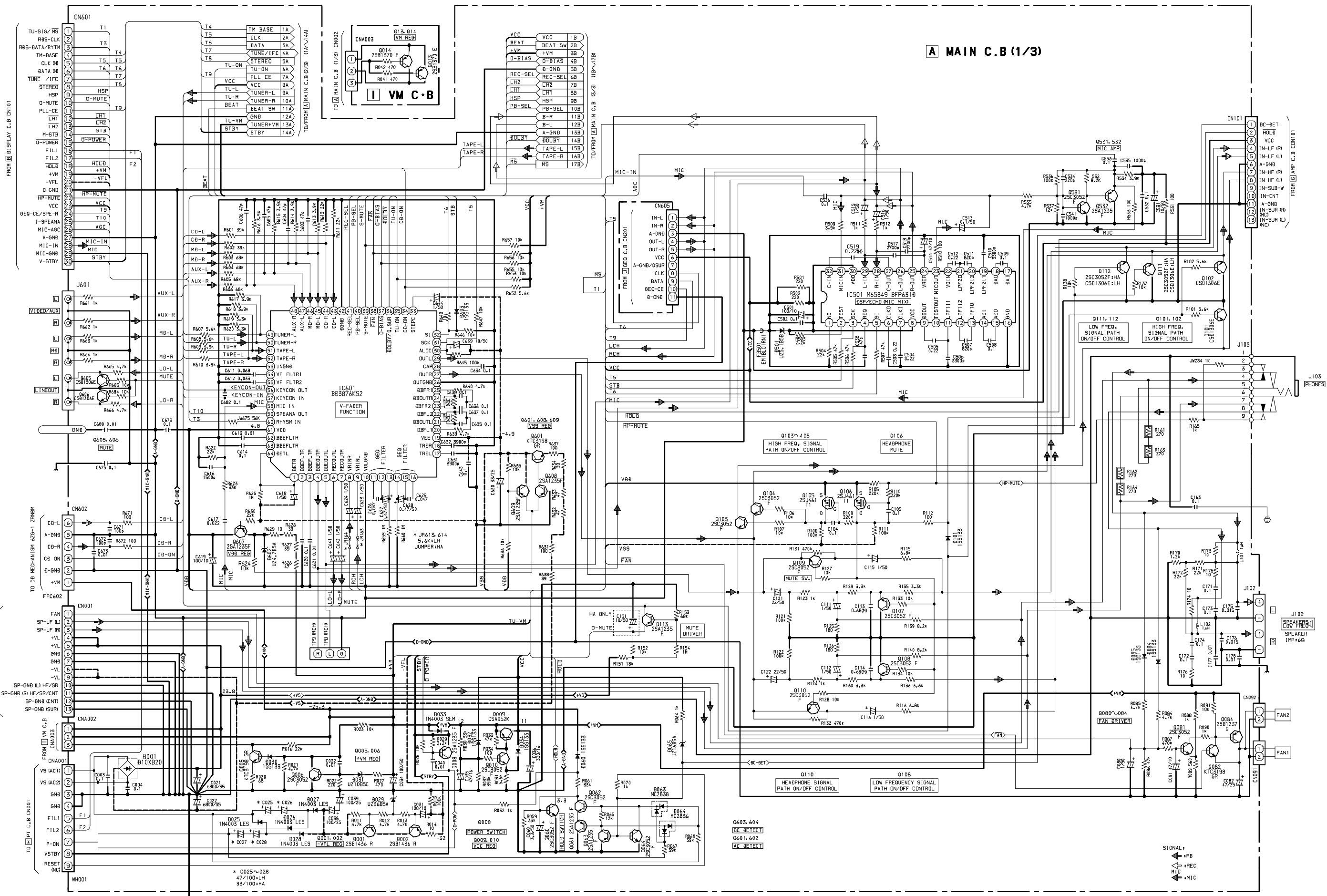
2SA1235F
2SC2714
2SC3052F
CMBT5551
CMBT5401

CSD1306E
DTA143EKA
KRA104S
RT1N141C
RT1P144C

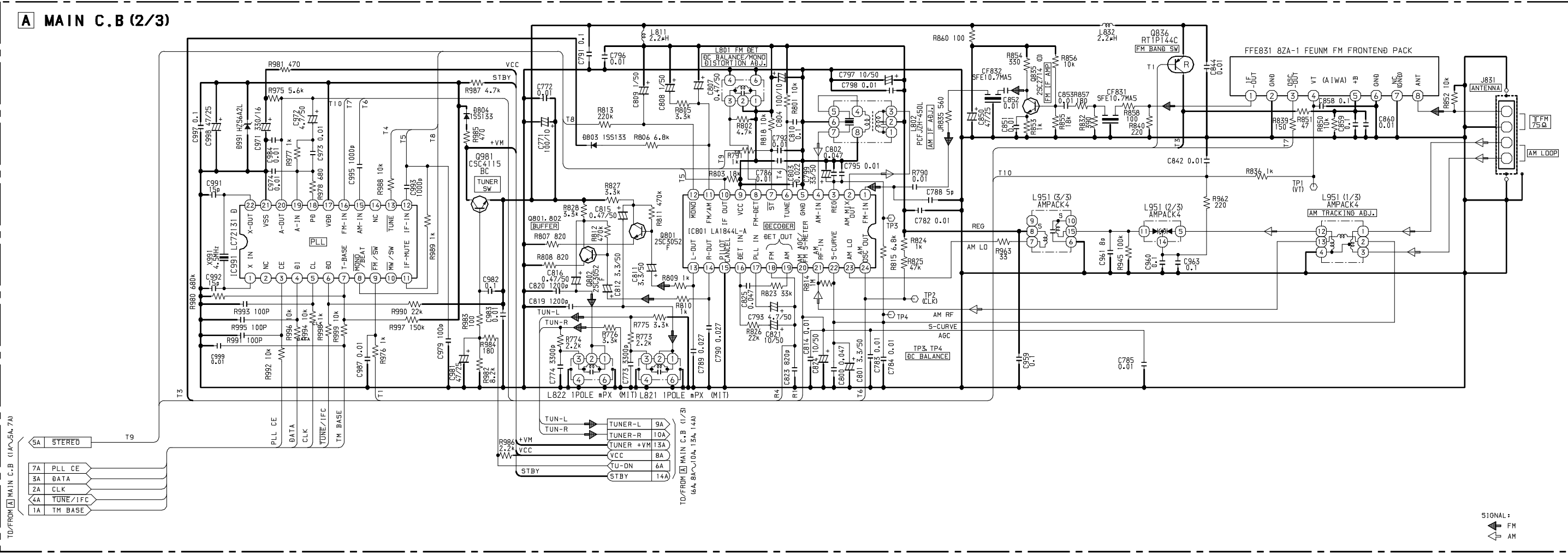
A MAIN C.B



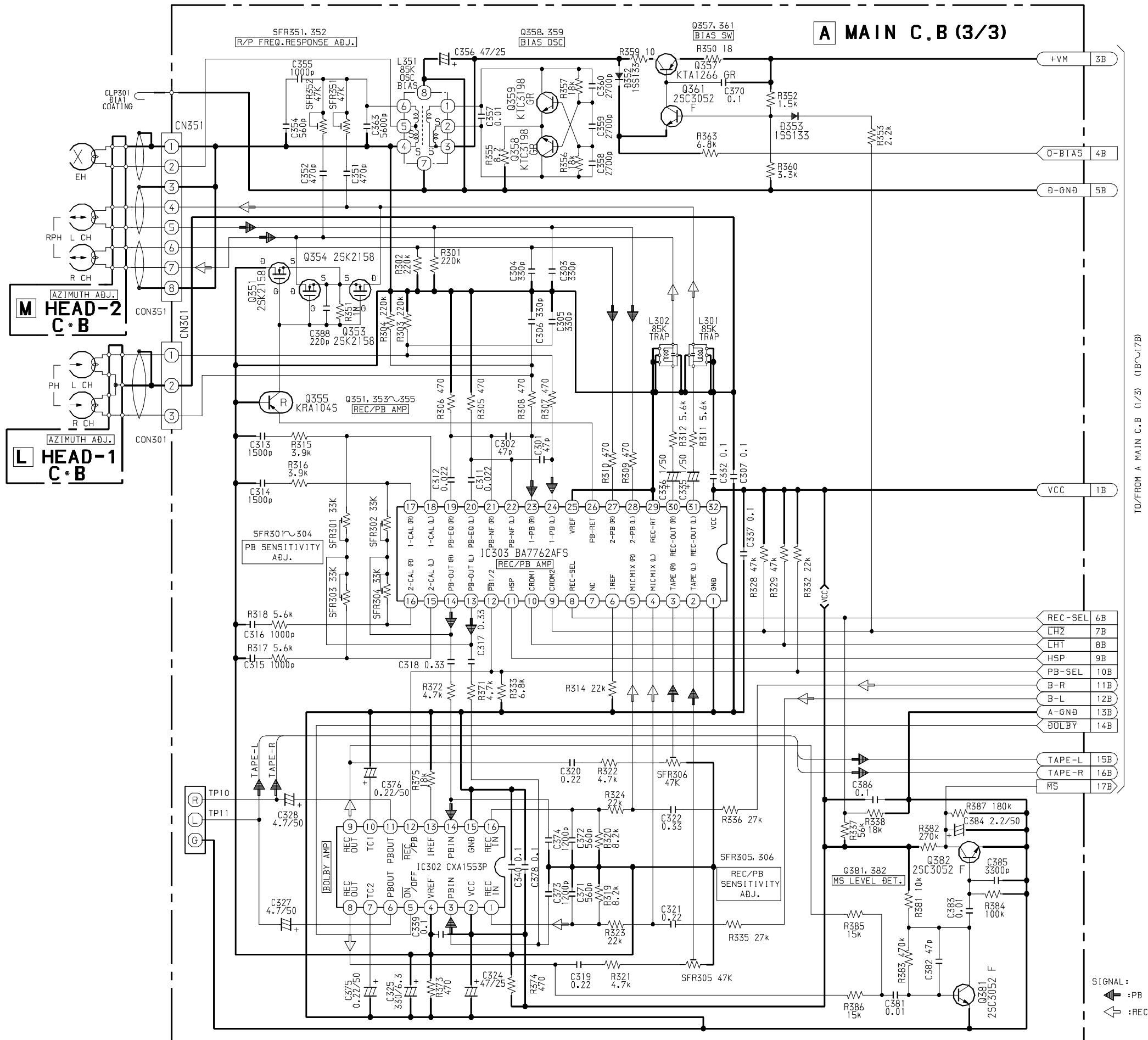
SCHEMATIC DIAGRAM – 1 (MAIN 1/3 / VM)



SCHEMATIC DIAGRAM – 2 (MAIN 2/3)

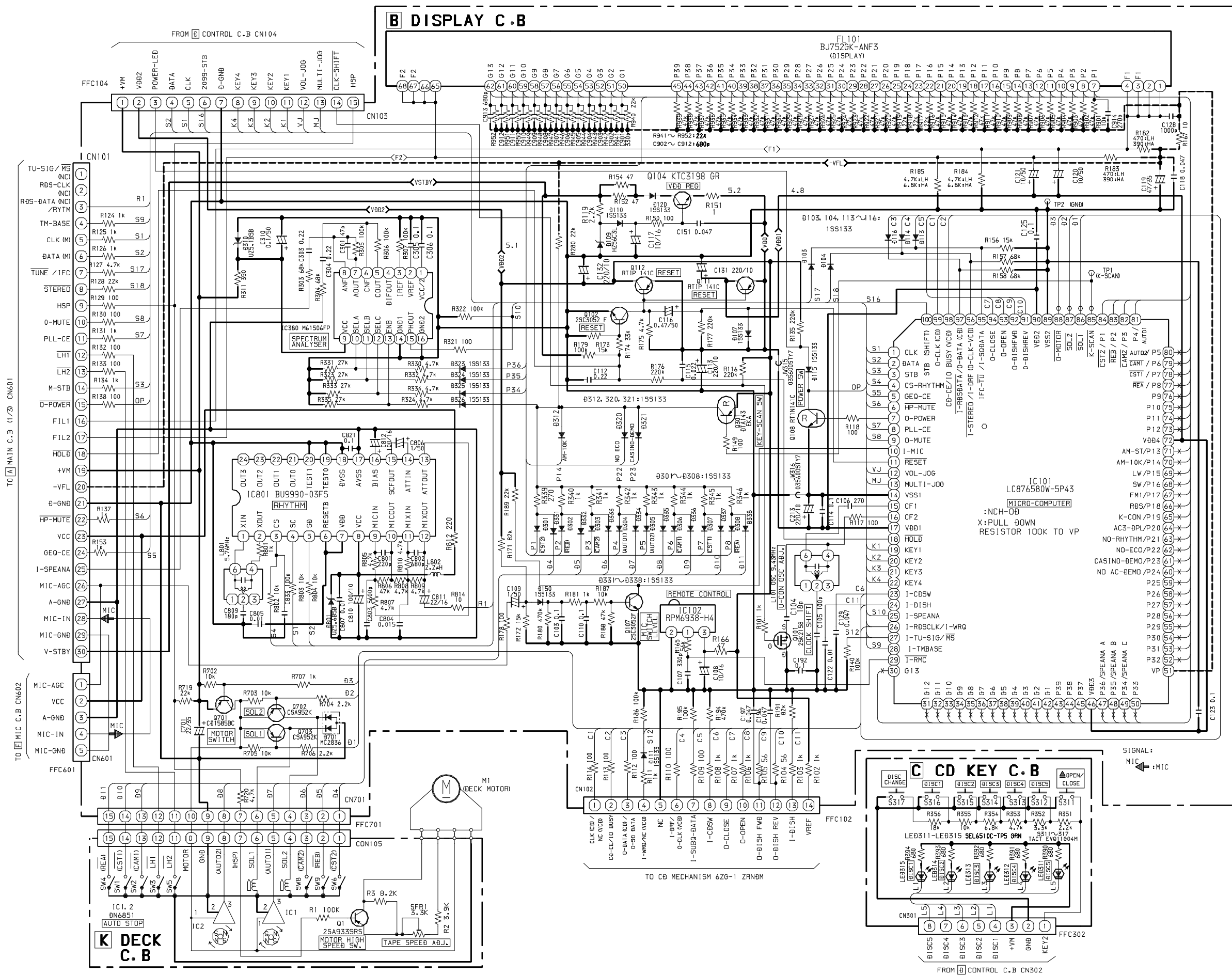


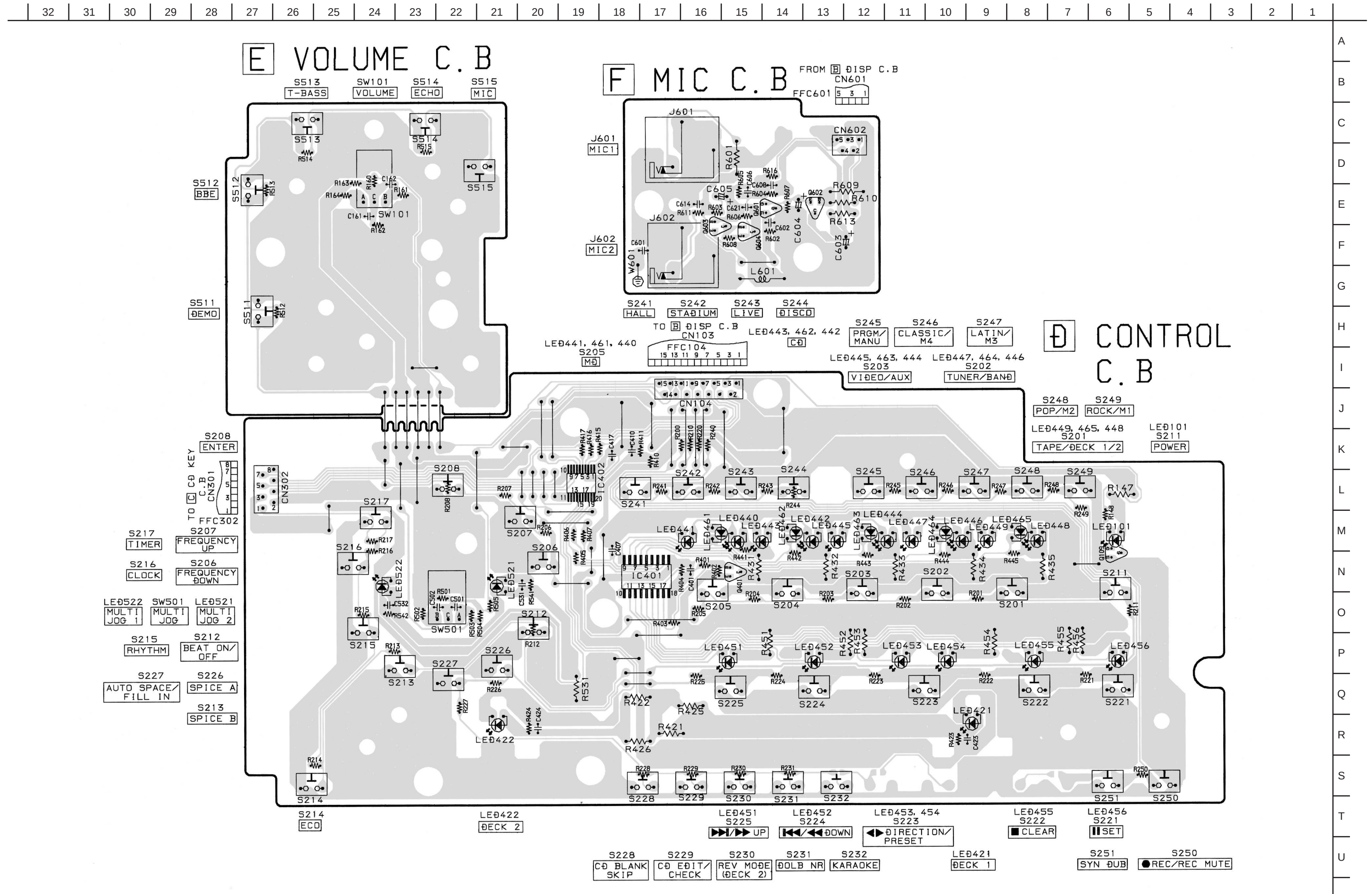
SCHEMATIC DIAGRAM – 3 (MAIN 3/3 / HEAD-1 / HEAD-2)

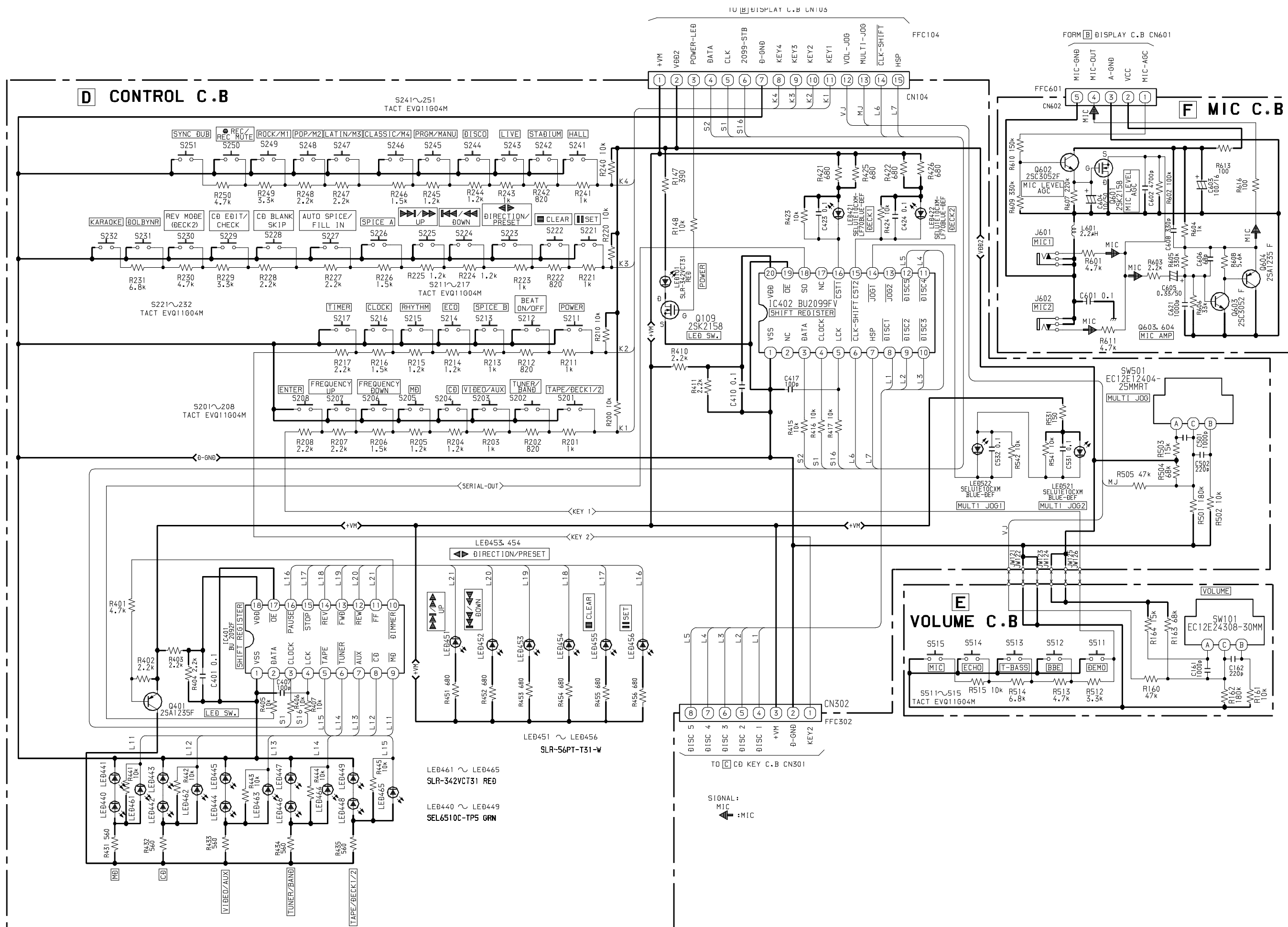


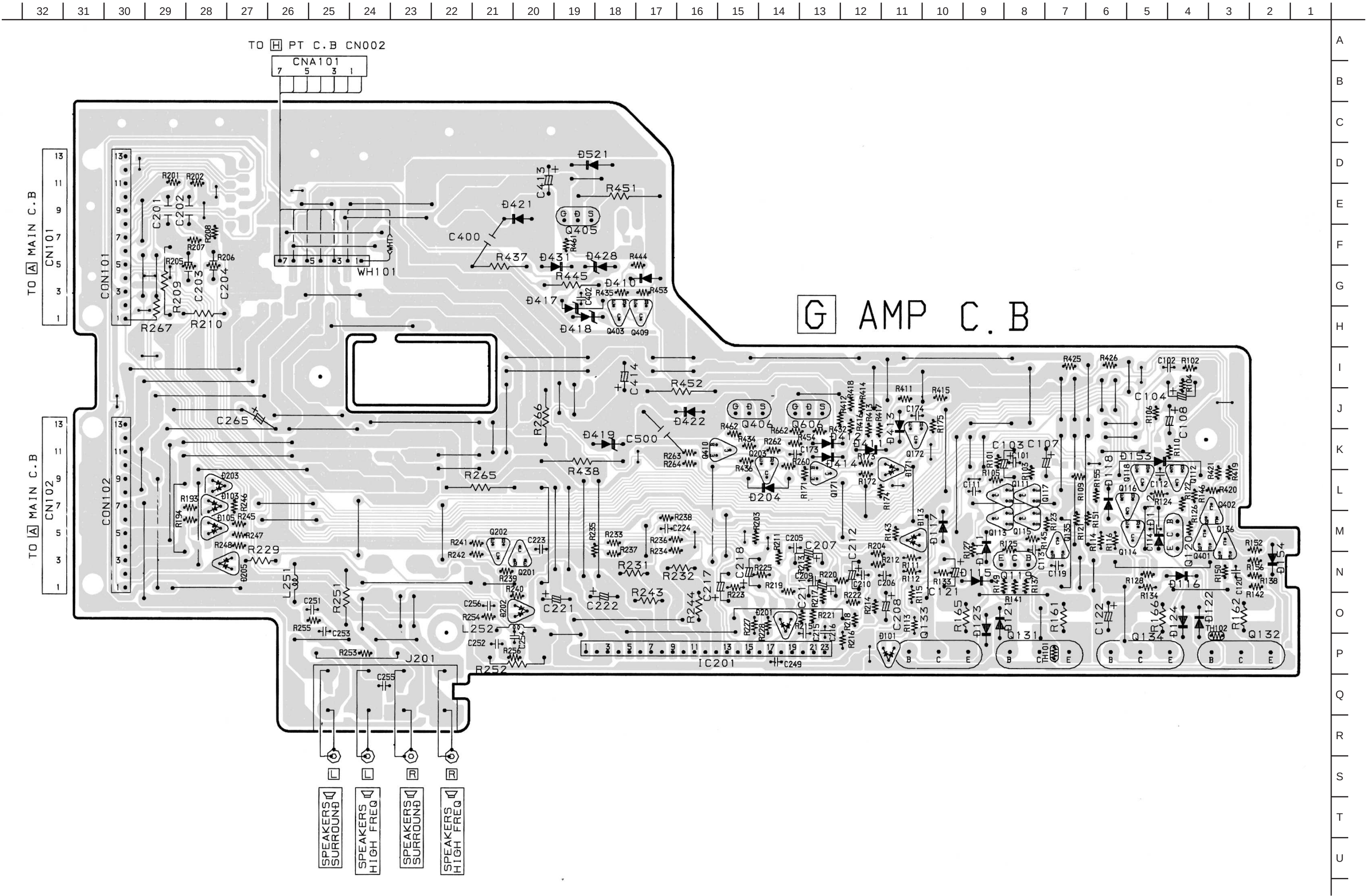


SCHEMATIC DIAGRAM – 4 (DISPLAY / CD KEY / DECK)

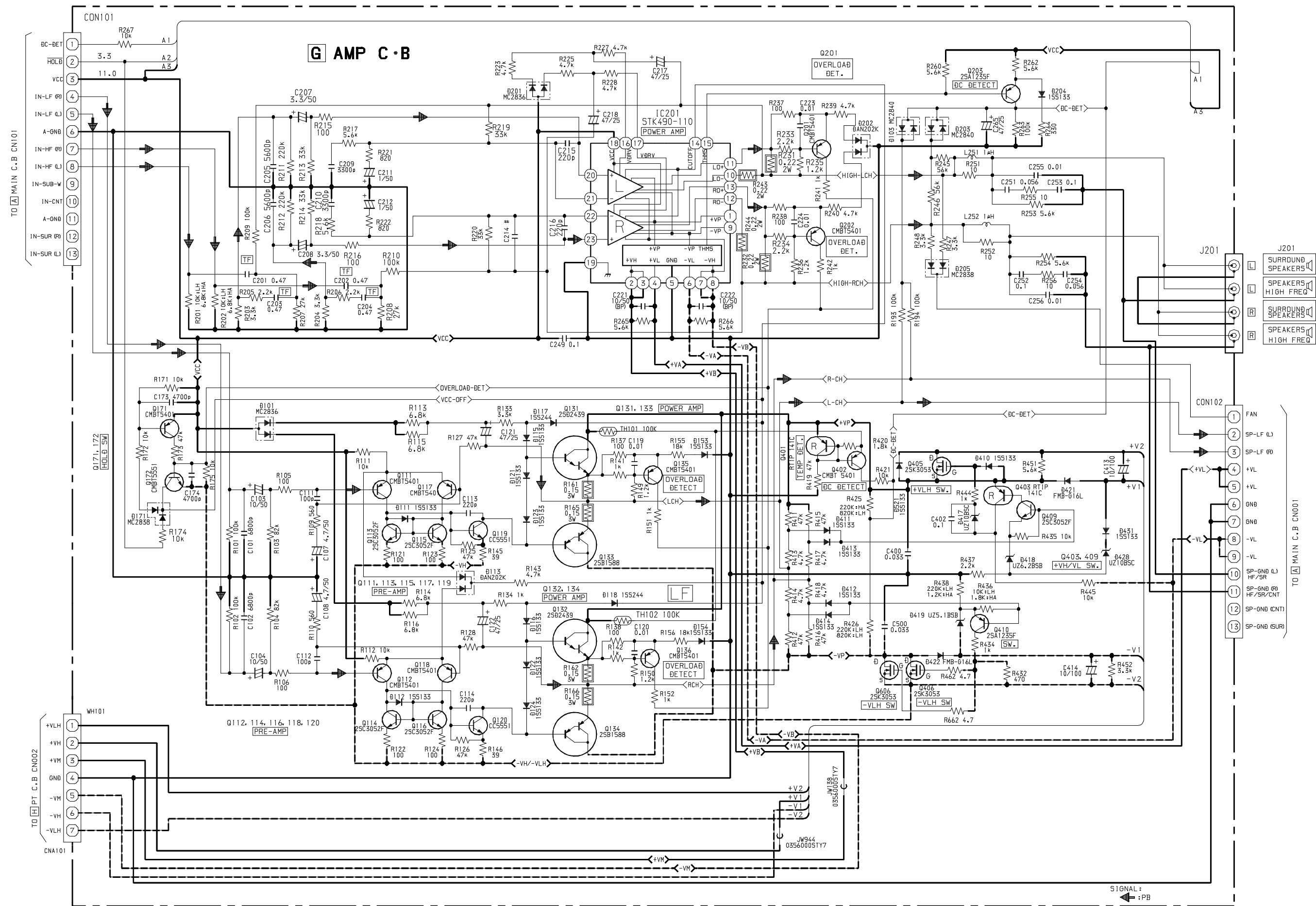


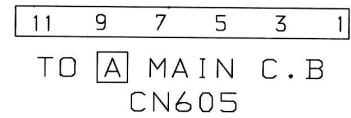
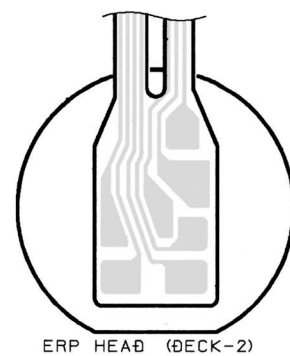
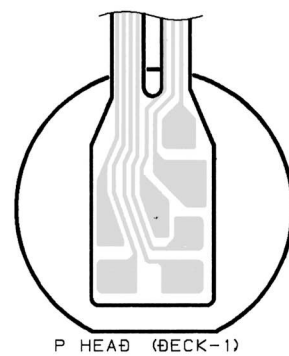
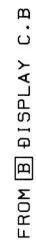


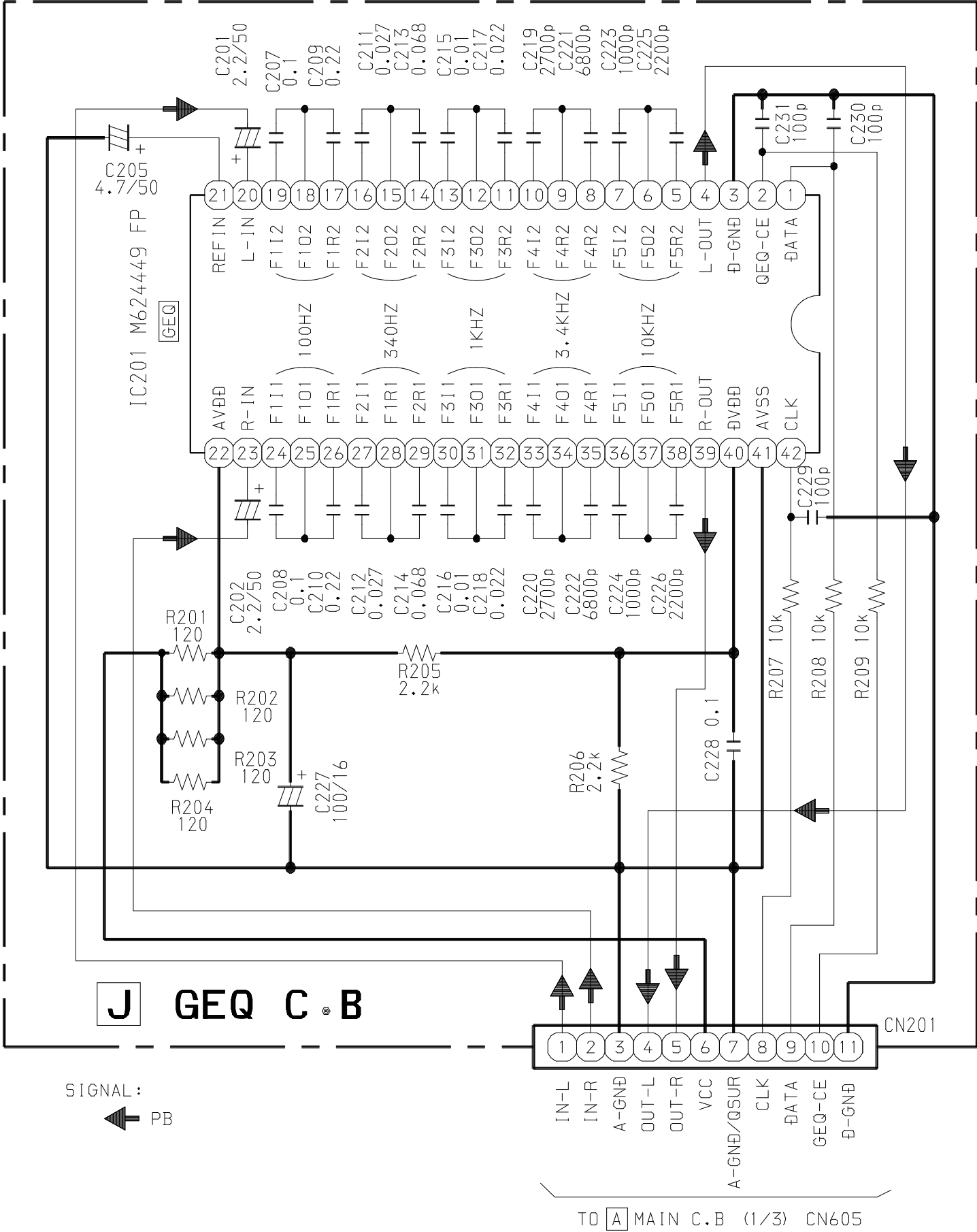


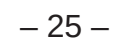


SCHEMATIC DIAGRAM – 6 (AMP)

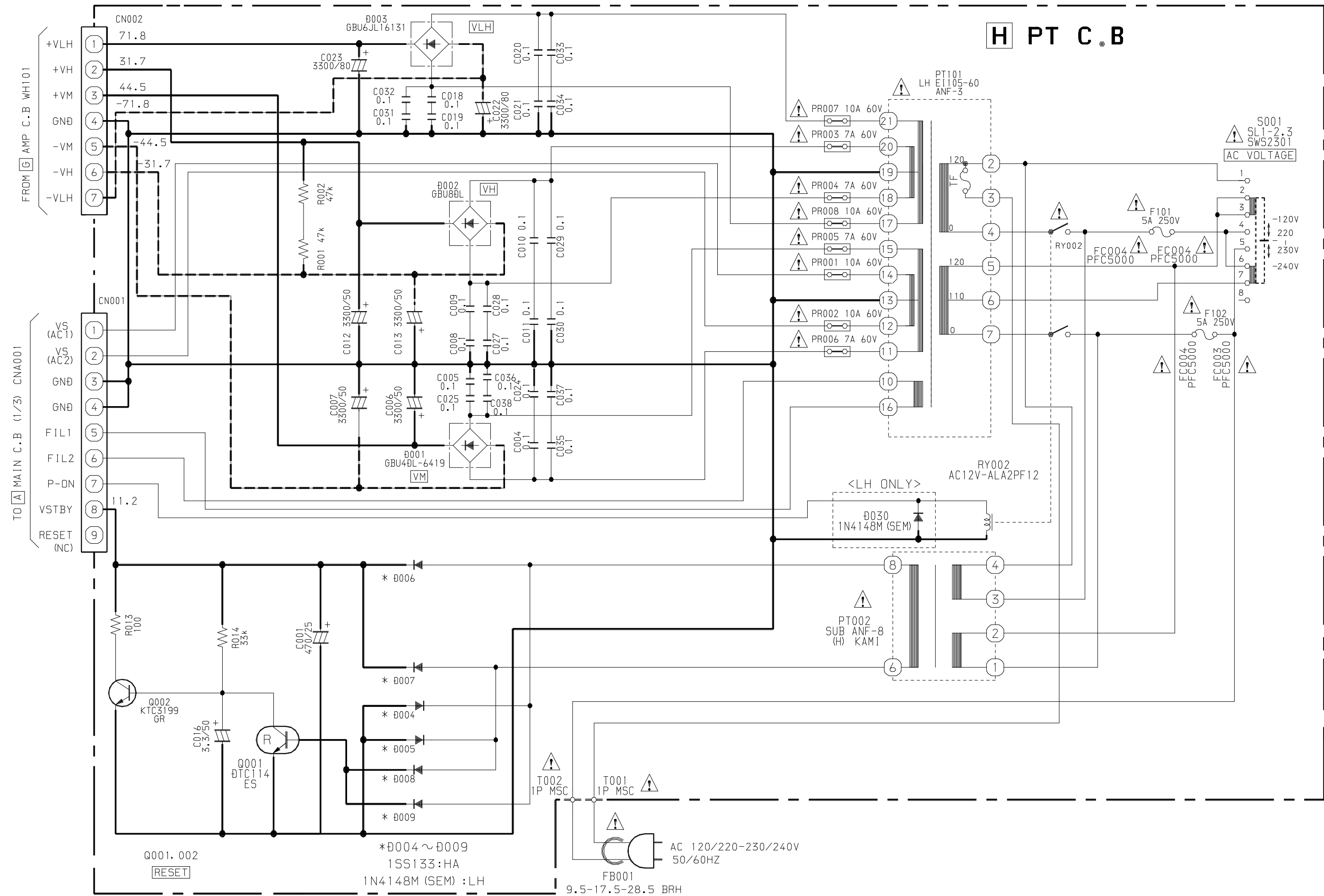




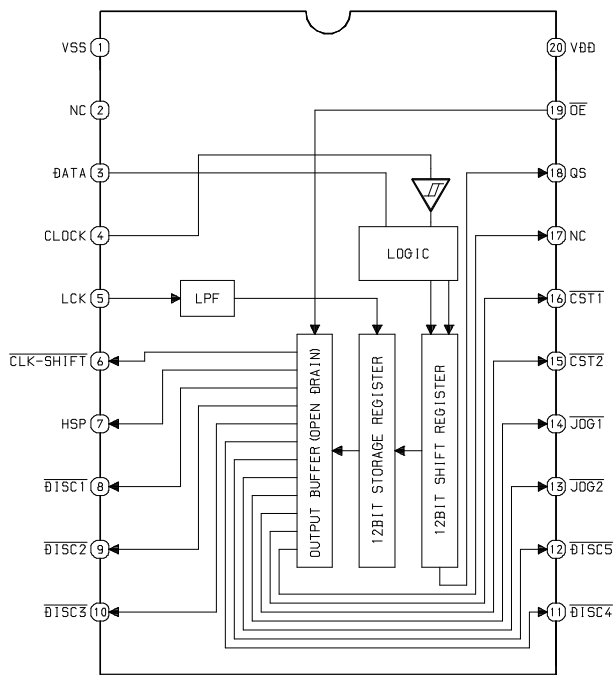




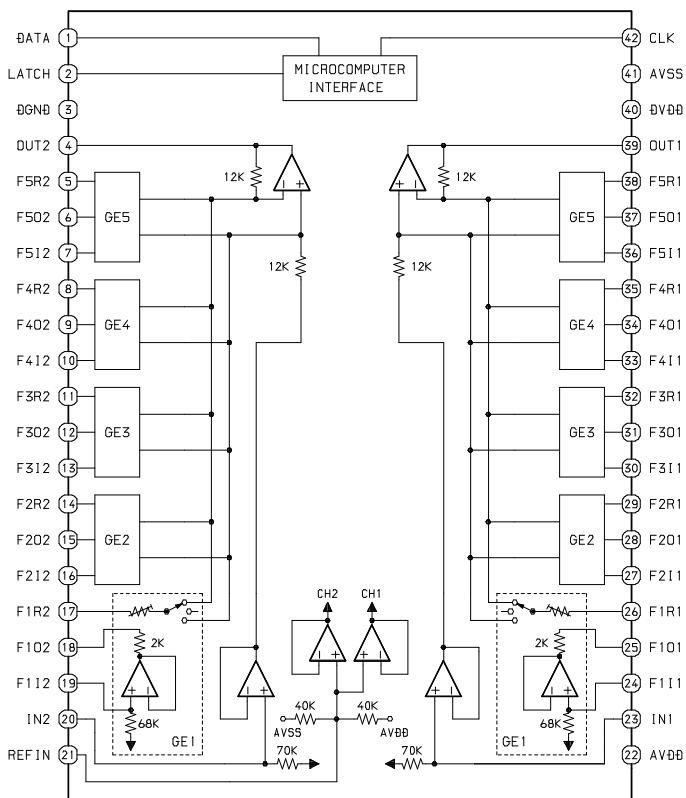
SCHEMATIC DIAGRAM – 8 (PT)



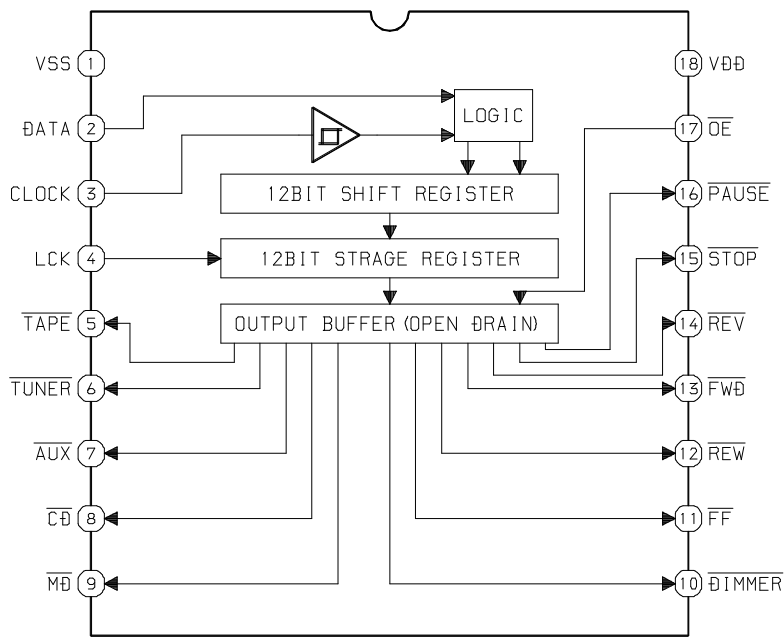
IC, BU2099FV



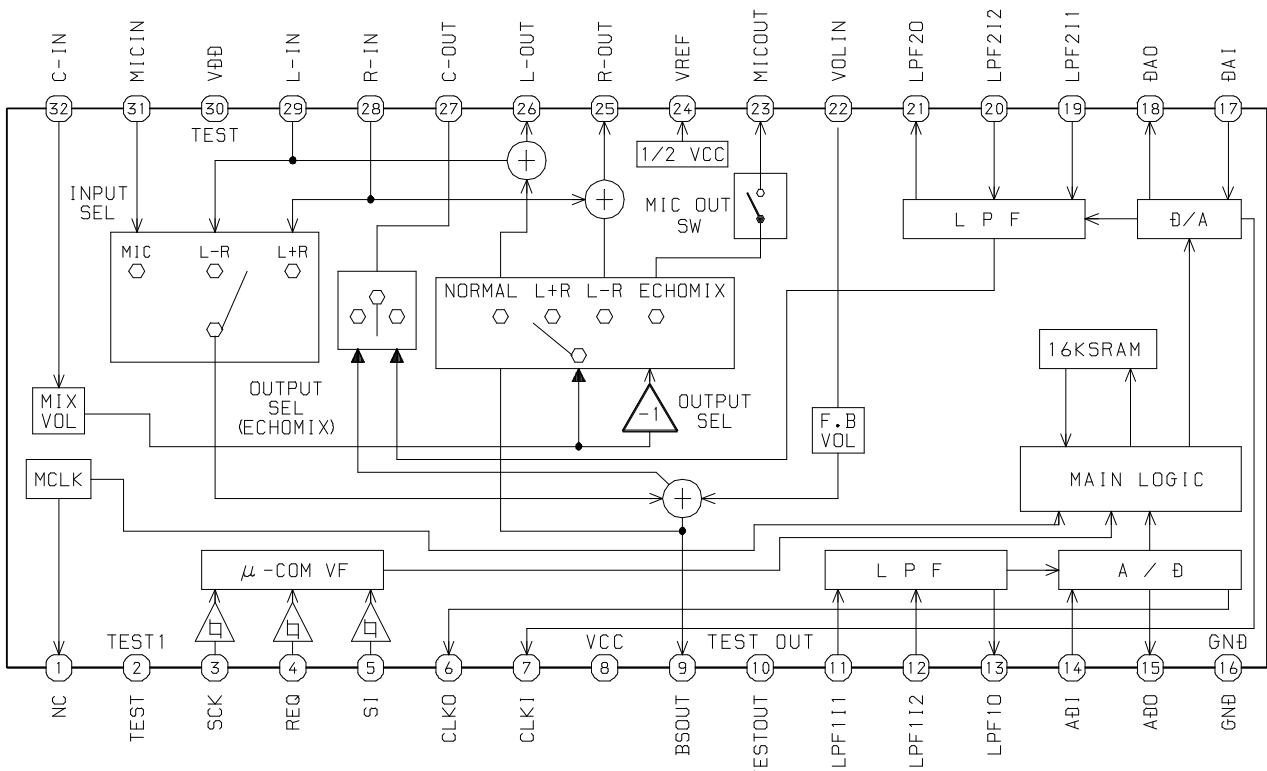
IC, M62449FP



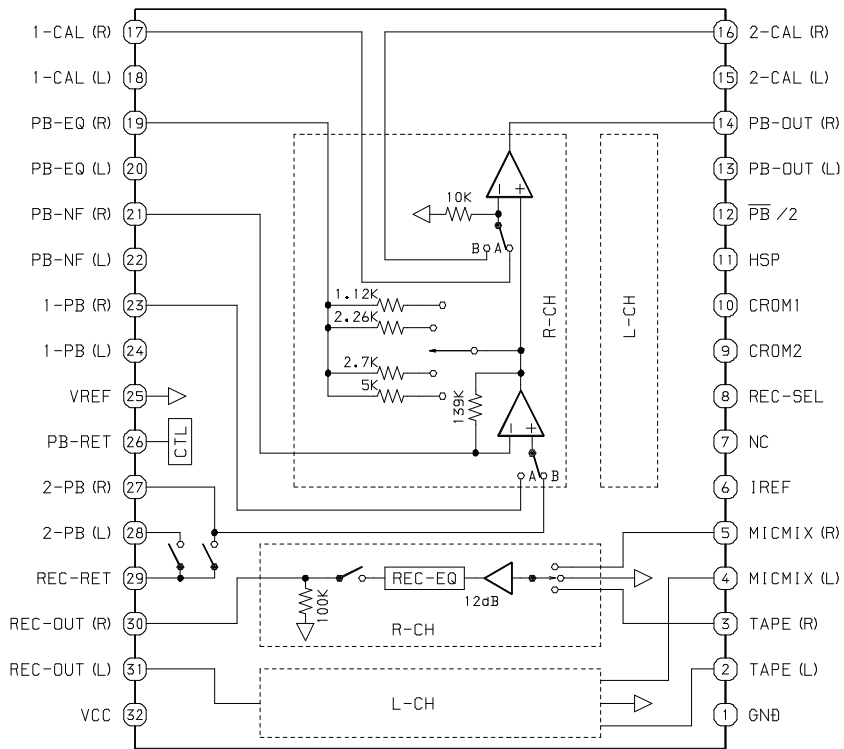
IC, BU2092F



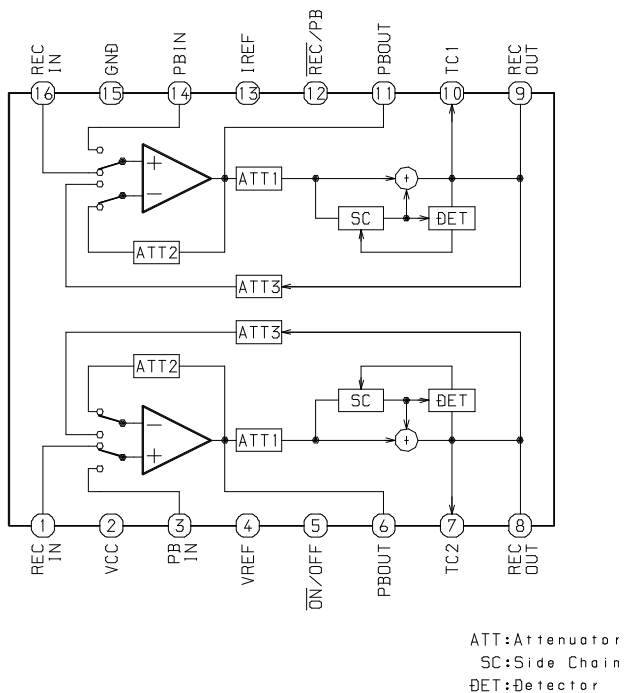
IC, M65849BFP631D



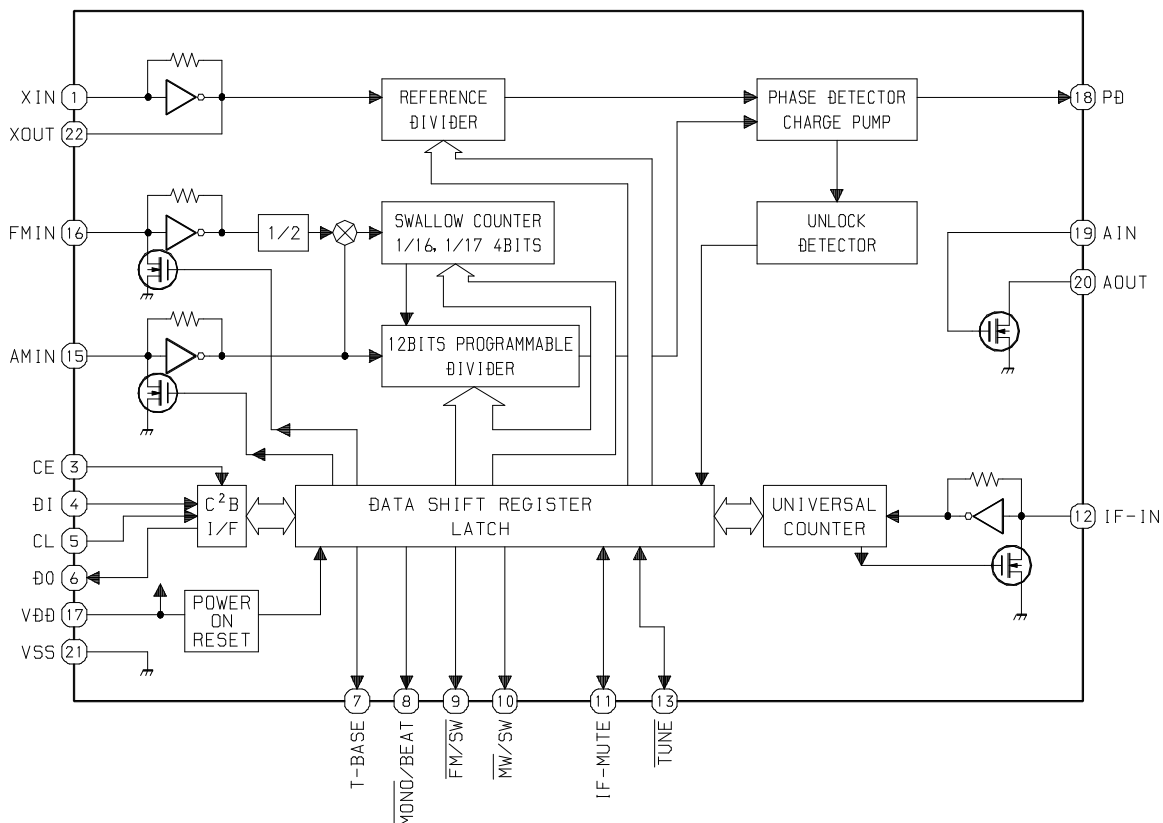
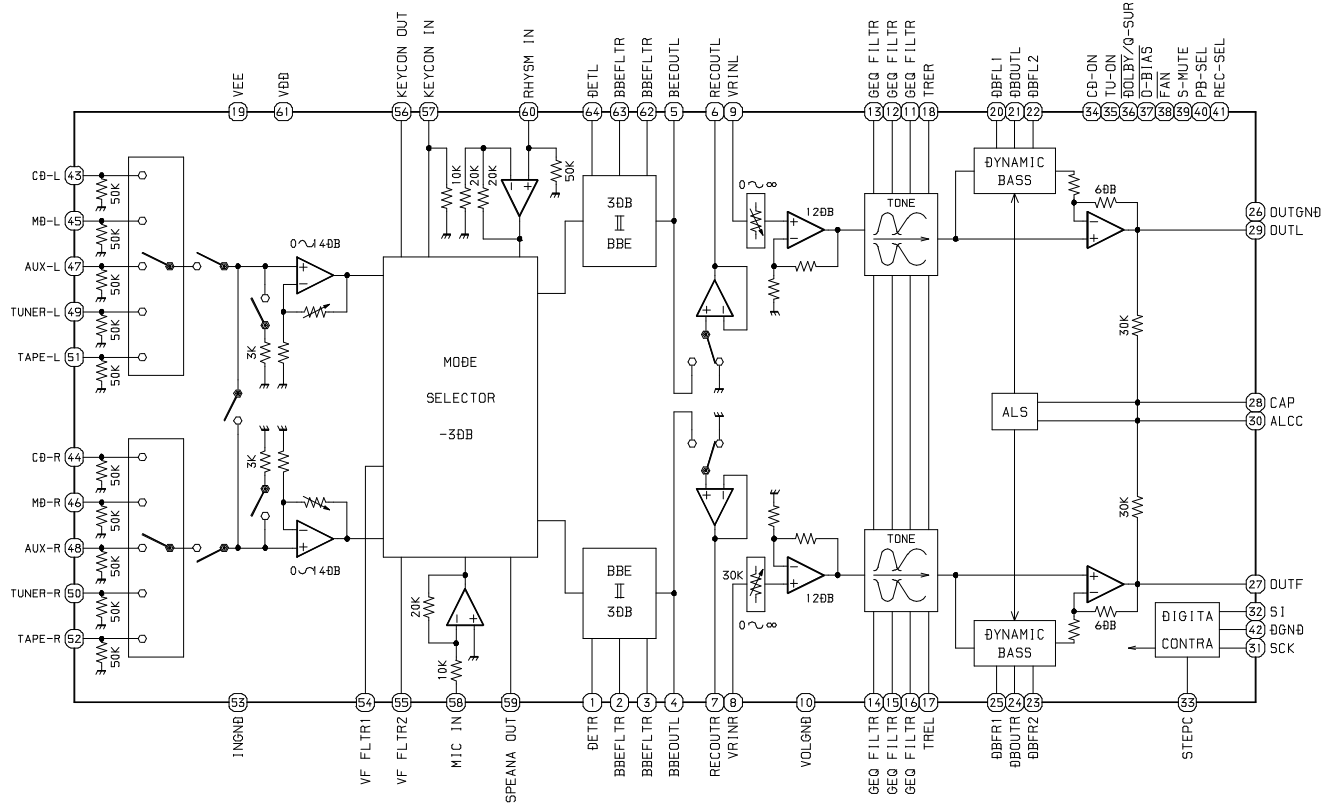
IC, BA7762AFS



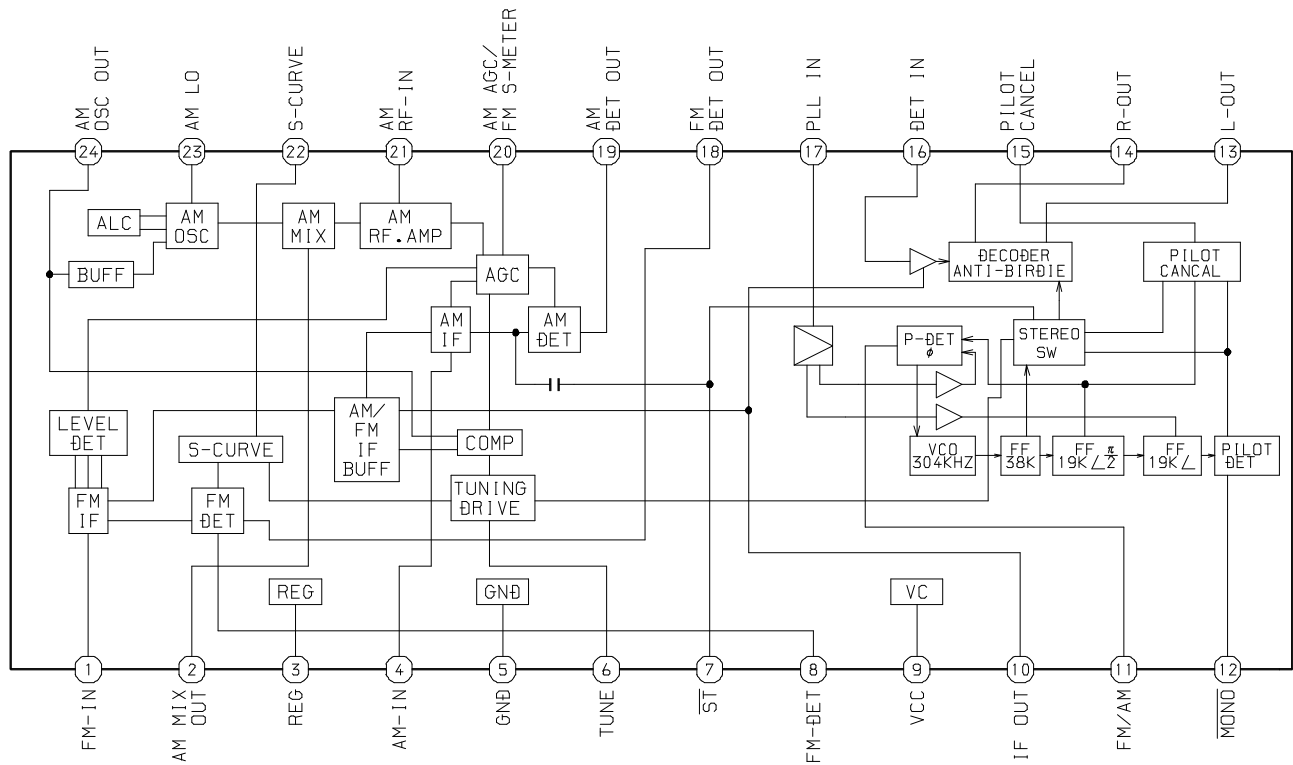
IC, CXA1553P



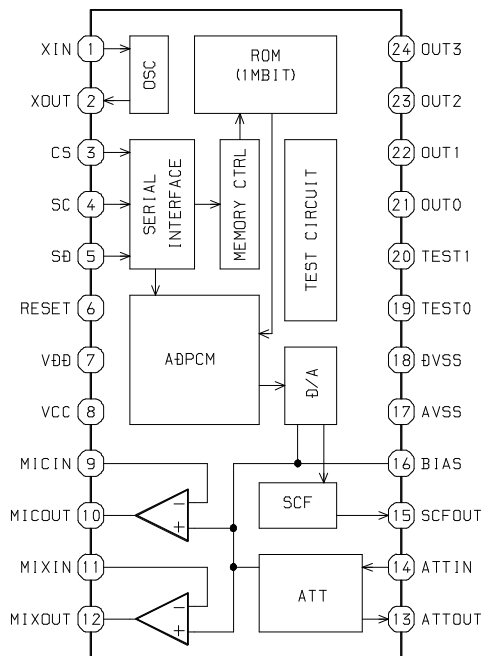
IC, LC72131D



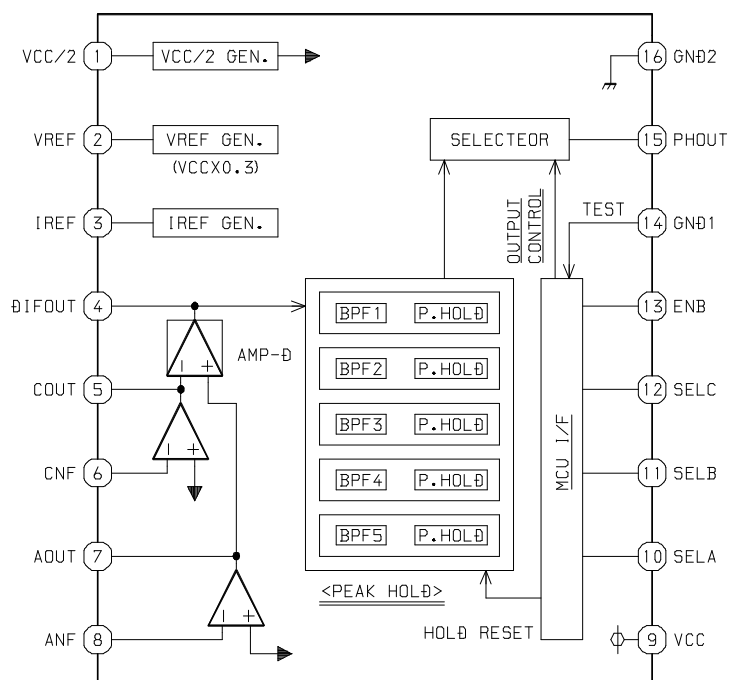
IC, LA1844L-A



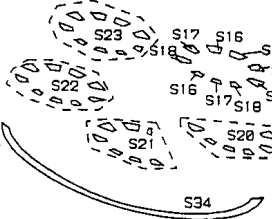
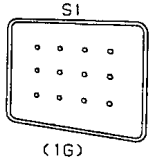
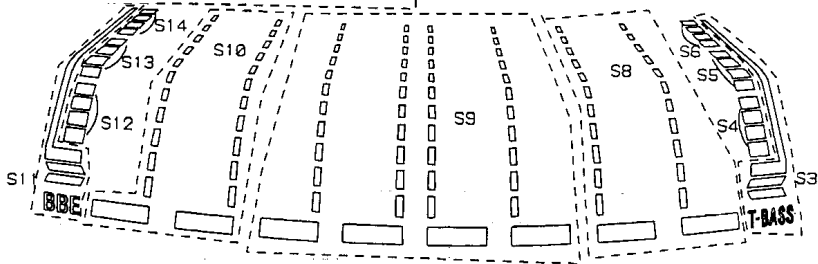
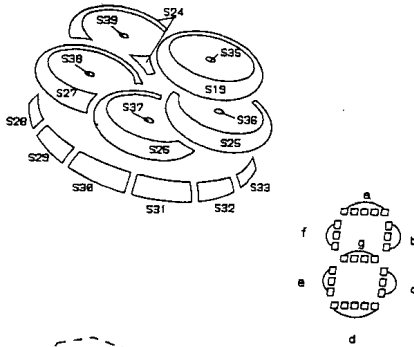
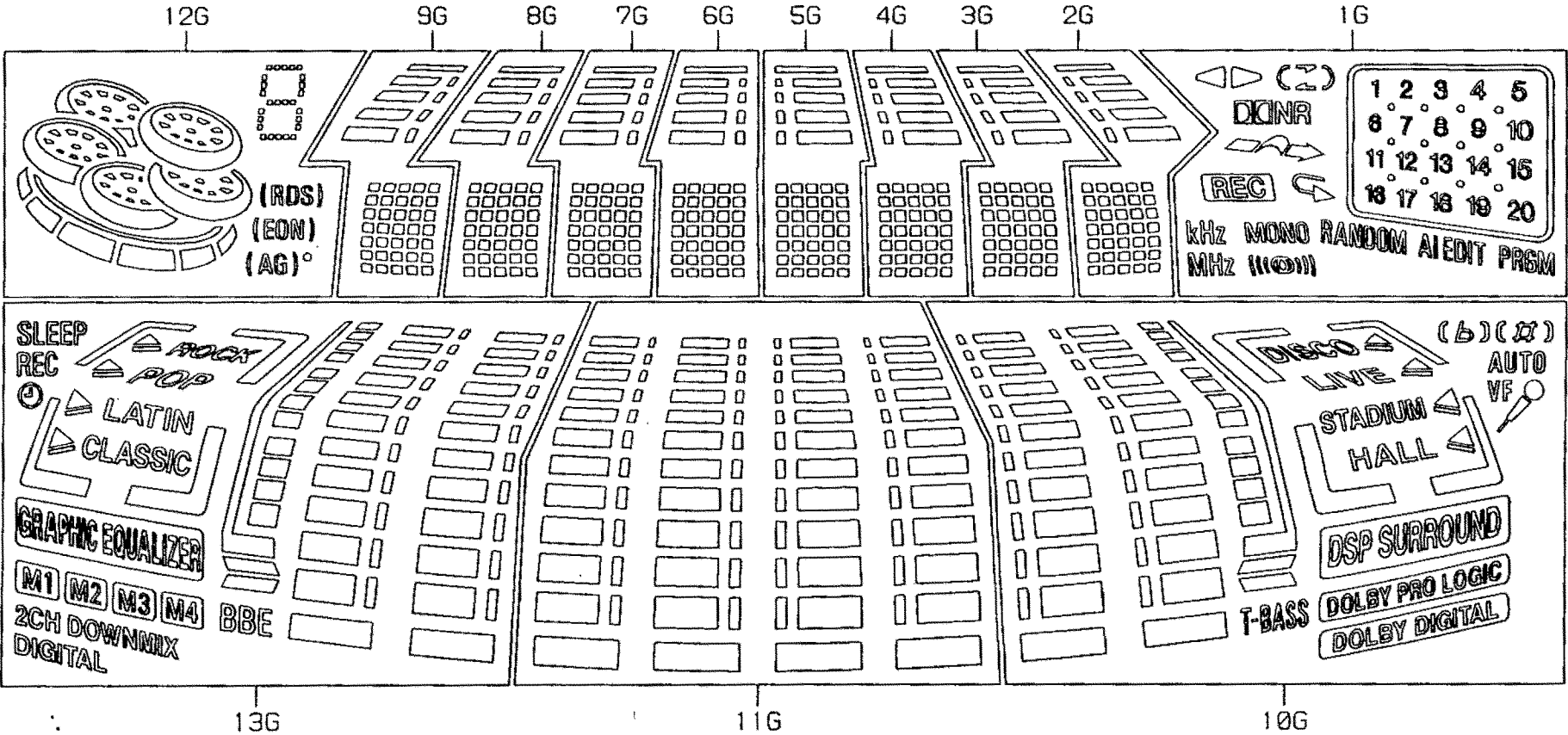
IC, BU9990-03FS



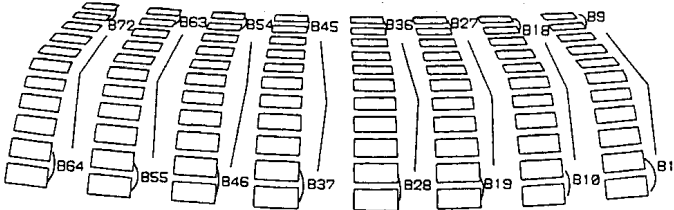
IC, M61506FP



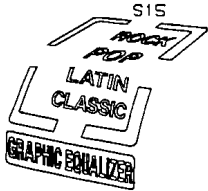
FL (BJ752GK-ANF3) GRID ASSIGNMENT AND ANODE CONNECTION
GRID ASSIGNMENT



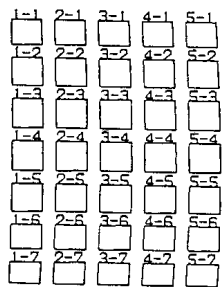
(12G)



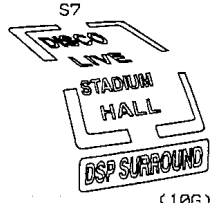
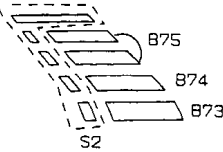
(13G, 11G, 10G)



(13G)



(9G~2G)



(10G)

ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	S10	○	S9	S8	5-7	S1
P2	B72	() (AG)	B54	B18	4-7	PRGM
P3	B63	AG	B45	B9	3-7	AI
P4	B71	() (EON)	B36	B17	2-7	EDIT
P5	B62	EON	B27	B8	1-7	RANDOM
P6	B70	() (RDS)	B53	B16	5-6	(MON)
P7	B61	RDS	B44	B7	4-6	MONO
P8	B69	S33	B35	B15	3-6	MHz
P9	B60	S32	B26	B6	2-6	kHz
P10	B68	S31	B52	B14	1-6	)
P11	B59	S30	B43	B5	5-5	1
P12	B67	S29	B34	B13	4-5	(
P13	B58	S28	B25	B4	3-5	↶
P14	B66	S34	B51	B12	2-5	↷
P15	B57	S26	B42	B3	1-5	REC
P16	B65	S25	B33	B11	5-4	DCNR
P17	B56	S20	B24	B2	4-4	▶
P18	B64	S36	B50	B10	3-4	◀
P19	B55	S21	B41	B1	2-4	1
P20	S14	S37	B32	S6	1-4	2
P21	S13	S27	B23	S5	5-3	3
P22	S12	S22	B49	S4	4-3	4
P23	S11	S38	B40	S3	3-3	5
P24	S15	S24	B31	S7	2-3	6
P25	⏏ (ROCK)	S23	B22	⏏ (DISCO)	1-3	7
P26	⏏ (POP)	S39	B48	⏏ (LIVE)	5-2	8
P27	⏏ (LATIN)	S19	B39	⏏ (STADIUM)	4-2	9
P28	⏏ (CLASSIC)	S35	B30	⏏ (HALL)	3-2	10
P29	SLEEP	S16	B21	() (b)	2-2	11
P30	REC	S17	B47	() (#)	1-2	12
P31	Ⓢ	S18	B38	b &	5-1	13
P32	M1	d	B29	AUTO	4-1	14
P33	M2	e	B20	TF	3-1	15
P34	M3	c	B46	DO NOT PROCEED	2-1	16
P35	M4	g	B37	DO NOT REPEAT	1-1	17
P36	2CH DOWNMIX	f	B28	-	B73	18
P37	DIGITAL	b	B19	-	B74	19
P38	-	a	-	-	B75	20
P39	-	-	-	-	S2	-

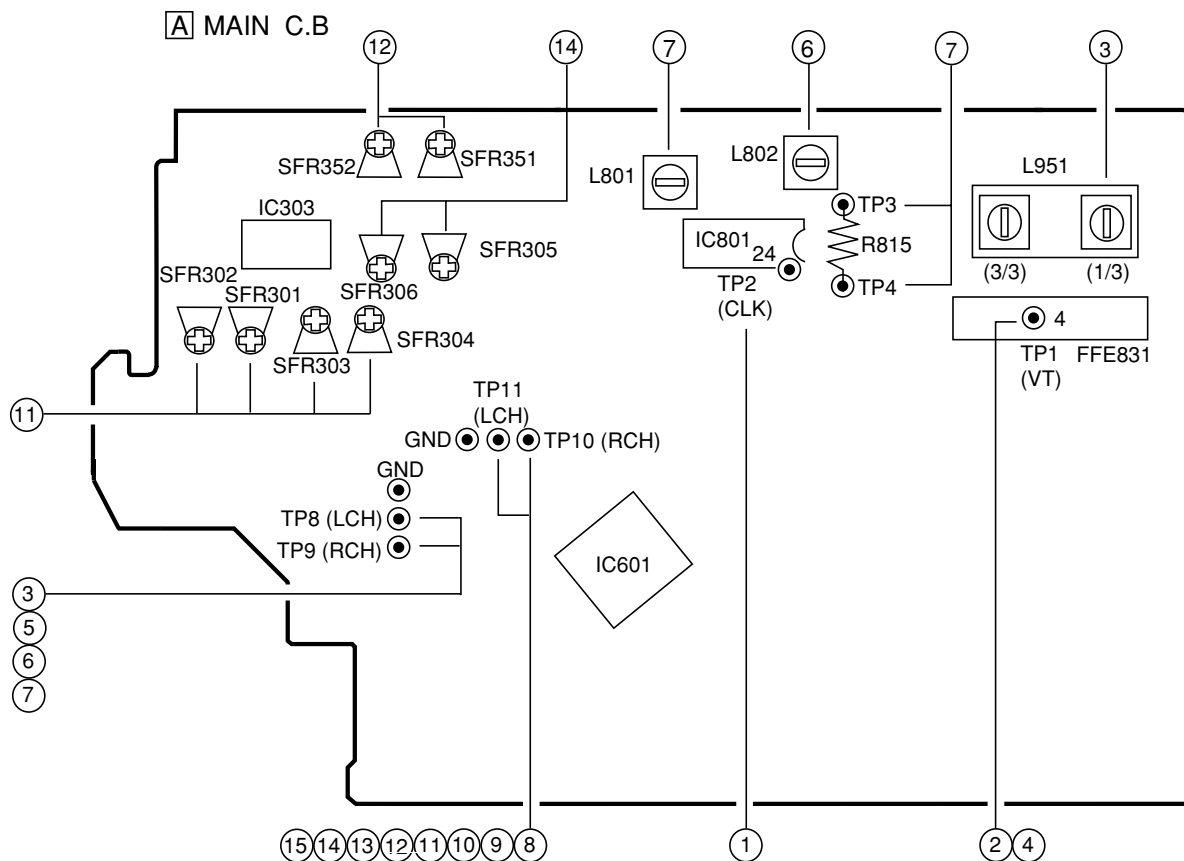
IC DESCRIPTION

IC, LC876580W-5P43

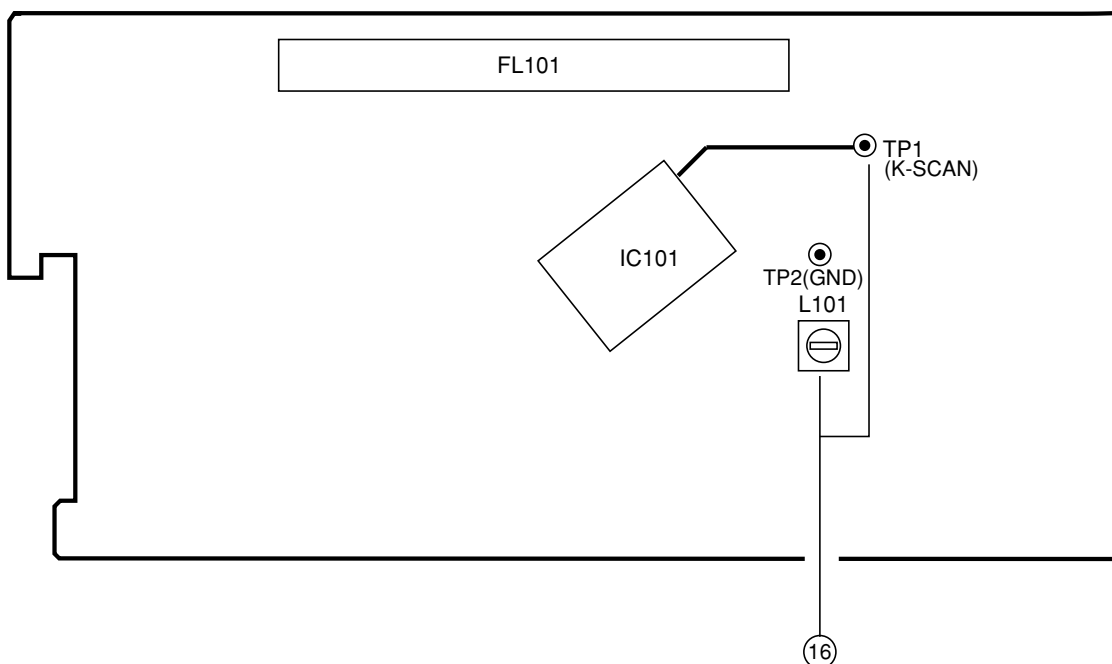
Pin No.	Pin Name	I/O	Description
1	CLK	O	Common serial CLOCK output.
2	DATA	O	Common Serial DATA output.
3	STB	O	Common serial STROBE output.
4	CS-RHYTHM	O	Rhythm IC chip select output.
5	GEQ-CE	O	GEQ IC chip enable output.
6	$\overline{\text{HP-MUTE}}$	I	Headphone plug-in detect input. (Output "L" at HOLD)
7	O-POWER	O	System power ON/ $\overline{\text{OFF}}$ output. (Active "H")
8	PLL-CE	O	Tuner PLL IC chip enable output.
9	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
10	I-MIC	I	Auto-VF MIC level special A/D input. (Output "L" at HOLD)
11	$\overline{\text{RESET}}$	I	Reset input.
12	VOL-JOG	I	Main volume JOG rotary encoder A/D input.
13	MULTI-JOG	I	MULTI JOG rotary encoder A/D input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	$\overline{\text{HOLD}}$	I	Power supply voltage detect A/D input.
19 ~ 22	KEY 1 ~ 4	I	KEY 1 ~ 4 A/D input. (Output "L" at HOLD)
23	I-CDSW	I	CD mechanism SW A/D input. (Output "L" at HOLD)
24	I-DISH	I	CD turntable photo sensor A/D input. (Output "L" at HOLD)
25	I-SPEANA	I	SPEANA level A/D input. (Output "L" at HOLD)
26	I-RDSCLK/I-WRQ	I	TUNER RDS IC CLK (INT2) input / CD WRQ input. (Output "L" at HOLD&INI)
27	I-TU-SIG/ $\overline{\text{MS}}$	I	Tuner tuning signal level A/D input / Deck MS SENS. (Output "L" at HOLD)
28	I-TMBASE	I	Timebase clock (8Hz) input. (Output "L" at HOLD)
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L". (Output "L" at HOLD)
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P39 ~ P37	O	FL segment P39 ~ P37 output.
46	VDD3	–	Power supply.
47	P36/SPEANA A	O	FL segment P36 output / SPEANA band select output (A) .
48	P35/SPEANA B	O	FL segment P35 output / SPEANA band select output (B) .
49	P34/SPEANA C	O	FL segment P34 output / SPEANA band select output (C).
50	P33	O	FL segment P33 output.
51	VP	–	Power supply for FL.
52 ~ 59	P32 ~ P25	O	FL segment P32~ P25 output.
60	P24/NO AC-DEMO	I/O	FL segment P24 output / NO AC-DEMO at AC-IN diode input. (No store DEMO mode.)
61	P23/CASINO-DEMO	I/O	FL segment P23 output / CASINO-DEMO select diode input.
62	P22/NO-ECO	I/O	FL segment P22 output / NO-ECO select input.
63	P21/NO-RHYTHM	I/O	FL segment P21 output / NO-RHYTHM select diode input.
64	P20/AC3-DPL	I/O	FL segment P20 output / AC3-DPL select diode input. (Not used.)

Pin No.	Pin Name	I/O	Description
65	P19/K-CON	I/O	FL segment P19 output / K-CON select diode input.
66	P18/RDS	I/O	FL segment P18 output / RDS select diode input.
67	P17/FM1	I/O	FL segment P17 output / FM1 select diode input.
68	P16/SW	I/O	FL segment P16 output / SW step initial diode input.
69	P15/LW	I/O	FL segment P15output / LW stereo select diode input.
70	P14/AM-10K	I/O	FL segment P14 output /AM-10K select diode input.
71	P13/AM-ST	I/O	FL segment P13 output / AM-ST select diode input.
72	VDD4	–	Power supply.
73~76	P12~P9	O	FL segment P12~P9 output.
77	P8/ $\overline{\text{RE}}\text{A}$	I/O	FL segment P8 ouput / REC enable (A) switch input (active: "L").
78	P7/ $\overline{\text{CST}}\text{1}$	I/O	FL segment P7 output / Cassette (1) switch.
79	P6/ $\overline{\text{CAM}}\text{1}$	I/O	FL segment P6 output / CAM (1) switch input (active: "L").
80	P5/AUTO2	I/O	FL segment P5 output / Auto stop reel (2) pulse input.
81	P4/AUTO1	I/O	FL segment P4 output / Auto stop reel (1) pulse input.
82	P3/ $\overline{\text{CAM}}\text{2}$	I/O	FL segment P3 output / CAM (2) switch input. (active:"L").
83	P2/ $\overline{\text{RE}}\text{B}$	I/O	FL segment P2 output / REC enable (B) switch input. (active:"L").
84	P1/ $\overline{\text{CST}}\text{2}$	I/O	FL segment P1 output / Cassette (2) switch input. (active:"L").
85	$\overline{\text{K-SCAN}}$	O	Key scan output. (active:"L").
86	$\overline{\text{SOL}}\text{1}$	O	DECK (1) solenoid $\overline{\text{ON}}$ /OFF output.
87	$\overline{\text{SOL}}\text{2}$	O	DECK (2) solenoid $\overline{\text{ON}}$ /OFF output.
88	$\overline{\text{O-MOTOR}}$	O	Deck motor $\overline{\text{ON}}$ /OFF output .
89	VSS2	–	Connected to GND.
90	VDD2	–	Power supply.
91	O-DISHREV	O	CD turn table dish reverse output.
92	O-DISHFWD	O	CD turn table dish forward output.
93	O-OPEN	O	CD tray open output.
94	O-CLOSE	O	CD tray close output.
95	IFC- $\overline{\text{TU}}$ /I-SQDATA	I	Tuner tune/IF count input (active: "L") / CD SUB-Q data input.
96	$\overline{\text{I-STEREO}}$ /I-DRF (O-CLK-VCD)	I/O	Tuner stereo detect input (active "L") / DRF input.
97	O-DATA(CD)/ I-RDS DATA	I/O	CD IC control data output / Tuner RDS data input.
98	CD-CE/ IO BUSY (VCD)	I/O	CD chip enable output /
99	CLK (CD)	O	CD IC control clock output.
100	STB(SHIFT)	O	Shift register strobe output.

ADJUSTMENT <TUNER/DECK/DISPLAY>

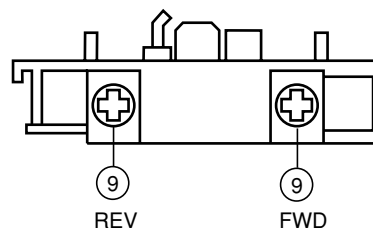
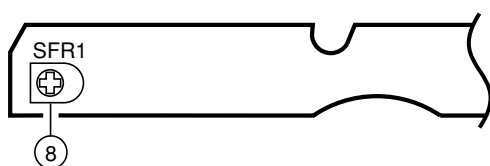


B DISPLAY C.B



K DECK C.B

DECK-1 P, DECK-2 R/P/E HEAD



< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP6 (CLK)
Method : Set to AM 1710kHz and check that the test point is 2160kHz $\pm$ 45Hz.
2. AM VT Check
Settings : • Test point : TP3 (VT)
Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz)
3. AM Tracking Adjustment
Settings : • Test point : TP7(Lch), TP8(Rch)
• Adjustment location : L951(1/3)..... 999kHz
Method : Set to AM 999kHz and adjust L951(1/3) so that the test point is max.
4. FM VT Check
Settings : • Test point : TP3 (VT)
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
Set to FM 87.5MHz and check that the test point is more than 0.5V.
5. FM Tracking Check
Settings : • Test point : TP7(Lch), TP8(Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9.0dB μ V.
6. AM IF Adjustment
Settings : • Test point : TP7(Lch), TP8(Rch)
• Adjustment location : L802
• Input level : Variable
Method : Adjust L802 so that the output becomes max.
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP4, TP5
(DC Balance)
TP7(Lch), TP8(Rch)
(Distortion)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP4 and TP5 becomes 0V $\pm$ 0.04V.
Next, check that the distortion is less than 1.3%

< DECK SECTION >

8. Tape Speed Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-100(3kHz)
• Test point : TP9(Rch), TP10(Lch)
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm$ 5Hz(FWD) and $\pm$ 45Hz(REV) with respect to forward speed.
9. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-300 (315/10kHz)
• Test point : TP9(Rch), TP10(Lch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.
10. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-300 (315/10kHz)
• Test point : TP9(Rch), TP10(Lch)
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 0 $\pm$ 2dB.
11. PB Sensitivity Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-200 (400Hz)
• Test point : TP9(Rch), TP10(Lch)
• Adjustment location : SFR301 (DECK 1, Lch)
SFR302 (DECK 1, Rch)
SFR303 (DECK 2, Lch)
SFR304 (DECK 2, Rch)
Method : Play back the test tape and adjust SFRs so that the output level of the test points become 245mV $\pm$ 10mV.
12. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602 (Normal)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR351 (Lch)
SFR352 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB $\pm$ 0.5dB with respect to that of the 1kHz signal.
13. REC/PB Frequency response Check (DECK 2)
Settings : • Test tape : TTA-615 (CrO₂)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz/10kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB $\pm$ 2dB.

14. REC/PB Sensitivity Adjustment (DECK 2)

Settings : • Test tape : TTA-602 (Normal)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record the play back the 1kHz signal and adjust SFRs so that the output level becomes 0dB $\pm$ 0.5dB

15. REC/PB Sensitivity Check (DECK 2)

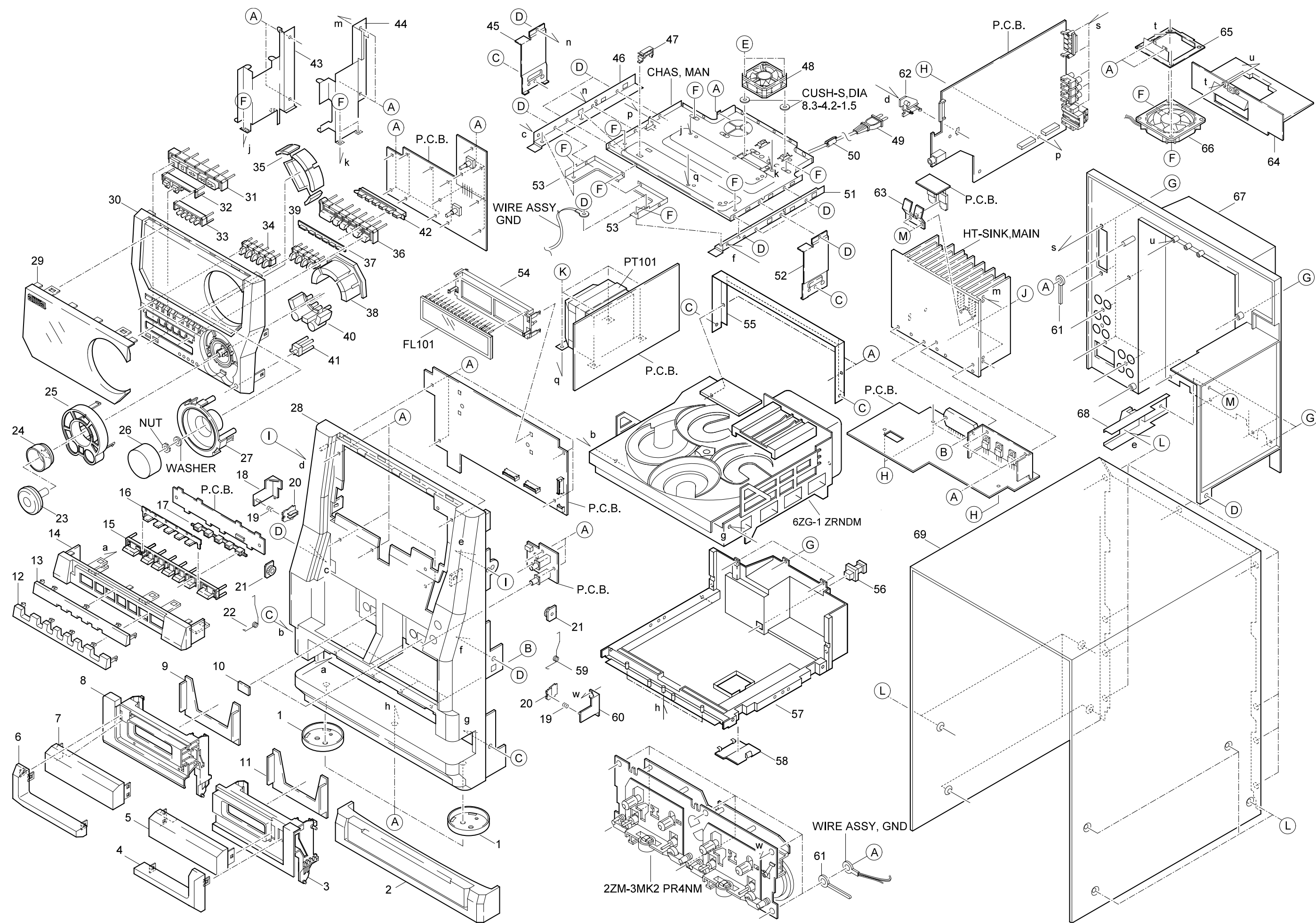
Settings : • Test tape : TTA-615 (CrO₂)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record and play back the 1kHz signal and check that the output is 0dB $\pm$ 1.5dB.

16. μ -CON OSC Adjustment

Settings : • Test point : TP1
• Adjustment location : L101

Method : Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 208.8Hz $\pm$ 0.2Hz.



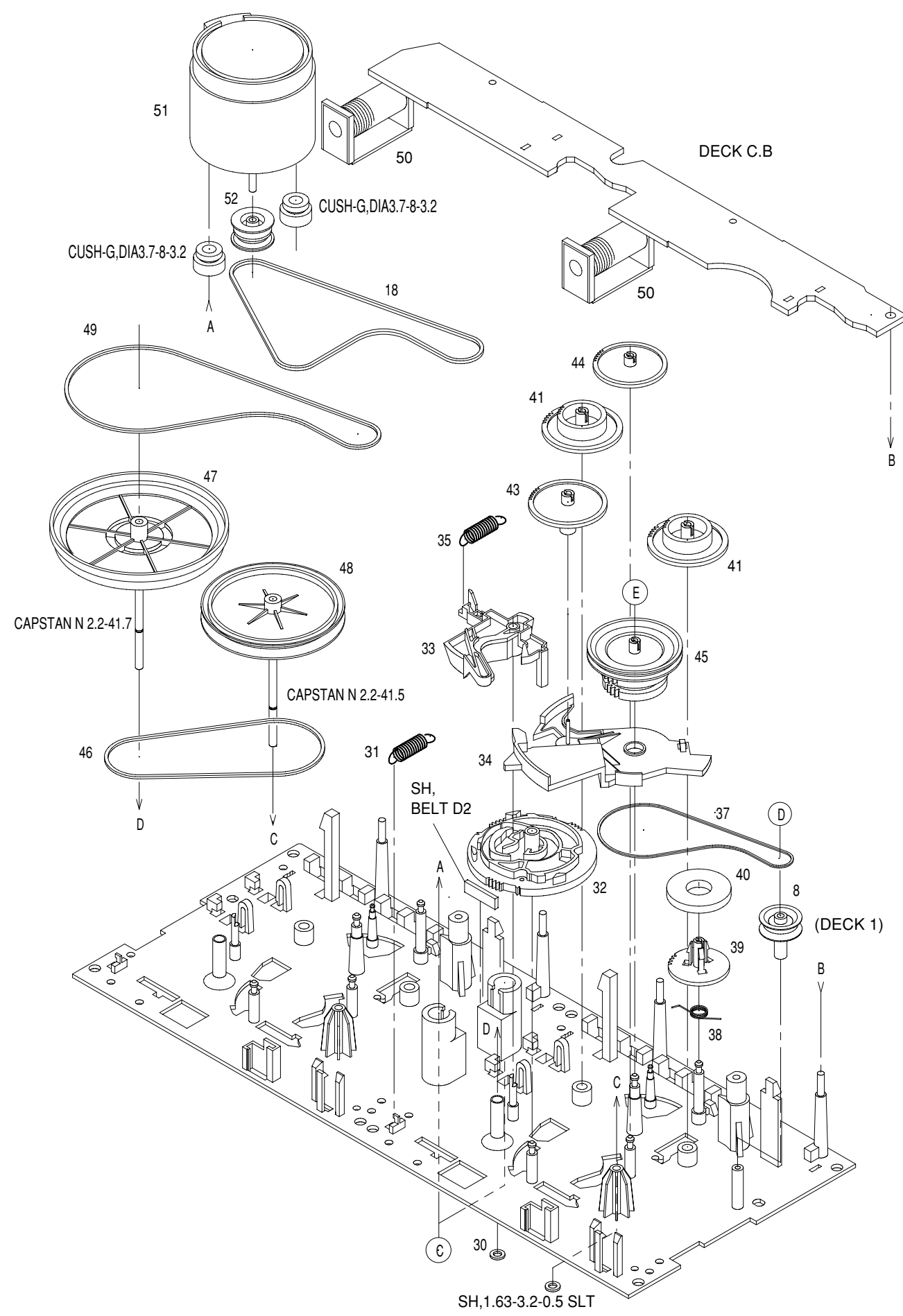
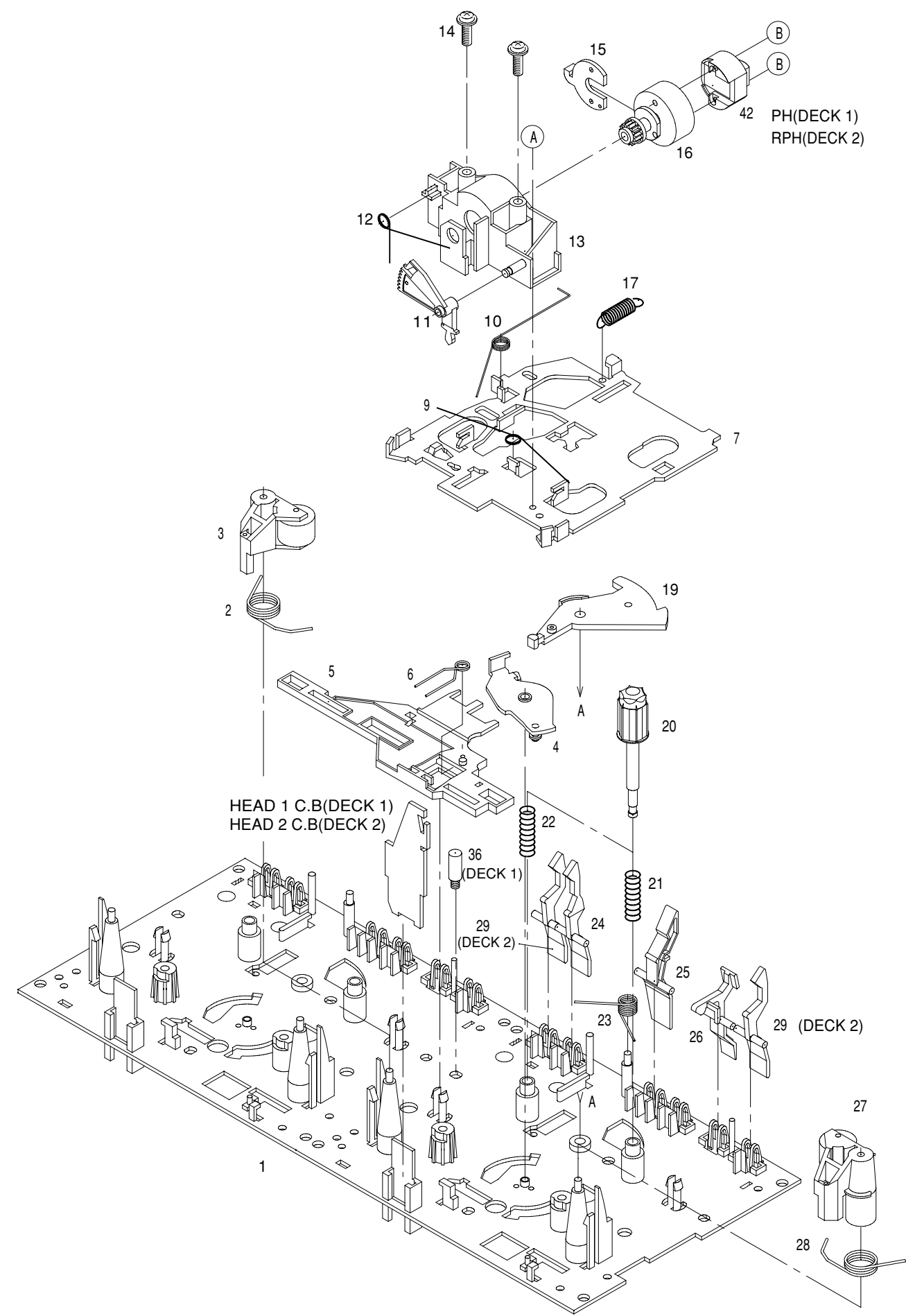
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF3-090-010		RING, FOOT	46	8A-NF3-208-010		HLDR, CHAS L
2	8A-NF3-042-010		PANEL ASSY, TRAY	47	87-NF4-221-010		HLDR, CABLE
3	8A-NF3-029-010		BOX, CASS R	48	87-A91-423-010		FAN, AD0612DS-D7OGL
4	8A-NF3-040-010		PANEL, CASS R	49	87-A80-148-010		AC CORD ASSY, E BLK
5	8A-NF3-059-010		WINDOW, CASS R	50	87-085-185-010		BUSHING, AC CORD (E)
6	8A-NF3-039-010		PANEL, CASS L	51	8A-NF3-209-010		HLDR, CHAS R
7	8A-NF3-058-010		WINDOW, CASS L	52	8A-NF3-211-010		HLDR, SIDE R
8	8A-NF3-028-010		BOX, CASS L	53	8A-NF3-229-010		HLDR, BRACKET
9	8A-NF3-090-010		REFLECTOR, CASS L	54	8Z-NF3-210-010		GUIDE, FL
10	81-532-080-010		LABEL, CASS. COMPT	55	8A-NF3-212-010		HLDR, REAR
11	8A-NF3-091-010		REFLECTOR, CASS R	56	84-ZG1-245-210		CAP, OPTICAL
12	8A-NF3-048-010		PANEL, REFLECTOR- CD	57	8A-NF3-026-010		CABI, BOTTOM
13	8A-NF3-049-010		PANEL, KEY-CD	58	8Z-NF3-048-010		COVER, BOTTOM
14	8A-NF3-047-010		PANEL, CD	59	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
15	8A-NF3-071-010		KEY, CD	60	87-NF4-217-110		HLDR, LOCK 2
16	8A-NF3-089-010		REFLECTOR, CD	61	87-064-185-010		HLDR, WIRE
17	8A-NF3-203-010		GUIDE, LED-CD	62	8A-NF8-206-010		HLDR, PWB M
18	87-NF4-216-010		HLDR, LOCK 1	63	8A-NF3-221-010		HLDR, IC-VM
19	86-NF9-224-010		SPR-C, LOCK	64	8A-NF3-225-010		COVER, HLDR
20	82-NF5-229-010		PLATE, LOCK	65	8A-NF3-223-010		HLDR, FAN
21	87-NF8-220-010		DMPR, 150	66	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
22	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	67	8A-NF3-015-010		CABI, REAR HASM<HA>
23	8A-NF3-082-010		KNOB, RTRY JOG	67	8A-NF3-011-010		CABI, REAR LHSM<LH>
24	8A-NF3-087-010		REFLECTOR, JOG	68	8A-NF3-228-010		HLDR, PWB-PT
25	8A-NF3-077-010		RING, JOG H	69	8A-NF3-027-010		CABI, STEEL
26	8A-NF3-081-010		KNOB, RTRY VOL	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
27	8A-NF3-076-010		RING, VOL	B	87-067-581-010		TAPPING SCREW, BVT2+3-15
28	8A-NF3-001-010		CABI, FR	C	87-721-097-410		QT2+3-12 GLD
29	8A-NF3-034-010		PANEL, FR LH	D	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
30	8A-NF3-051-010		WINDOW, DISP	E	87-067-822-010		BVT2+3-20 W/O SLOT
31	8A-NF3-063-010		KEY ASSY, OPE	F	87-067-689-010		TAPPING SCREW, BVTT+3-8
32	8A-NF3-073-010		KEY, REC U	G	87-067-761-010		TAPPING SCREW, BVT2+3-10
33	8A-NF3-065-010		KEY, KARAOKE	H	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
34	8A-NF3-061-010		KEY, GEQ	I	87-721-096-410		QT2+3-10 GLD
35	8A-NF3-067-010		KEY, BBE	J	87-067-758-010		BVT2+3-12 W/O SLOT
36	8A-NF3-072-010		KEY, FUNC	K	87-067-975-010		S-SCREW, IT+4-8
37	8A-NF3-088-010		REFLECTOR, FUNC	L	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
38	8A-NF3-068-010		KEY, JOG	M	87-067-579-010		TAPPING SCREW, BVT2+3-8
39	8A-NF3-062-010		KEY, DSP				
40	8A-NF3-069-010		KEY, SPICE				
41	8A-NF3-070-010		KEY, ECO				
42	8A-NF3-201-010		GUIDE, LED-FUNC				
43	8A-NF3-213-010		HLDR, HT-SINK L				
44	8A-NF3-214-010		HLDR, HT-SINK R				
45	8A-NF3-210-010		HLDR, SIDE L				

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		

TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISIM PARTS LIST 1 / 1

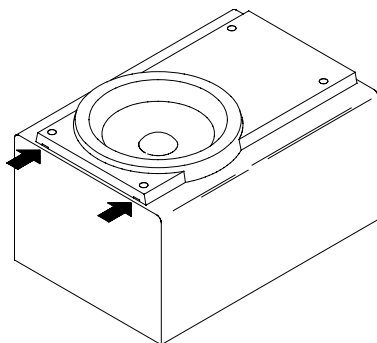
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE, LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-340-010		SH,BELT D2
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	82-ZM1-210-110		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-610		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-110		PLATE,HEAD
16	82-ZM1-208-110		HLD,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-310		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM1-241-310		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-310		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-110		SPR-E,TRIG

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
36	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
37	86-ZM1-206-010		BELT,MAIN L
38	82-ZM1-322-010		SPR-T,FR60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM3-616-010		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W (DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W (DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W (DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W (DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLD,IC
51	87-045-347-010		MOT,SHU2L 70 (M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3 (DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-010		V+1.6-7
C	82-ZM3-318-010		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

SPEAKER DISASSEMBLY INSTRUCTIONS

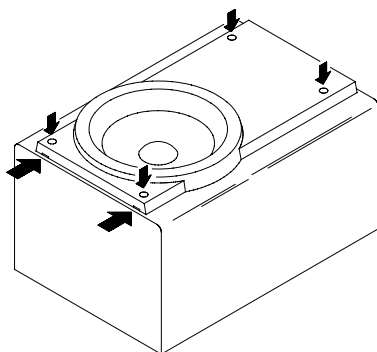
Type.1

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.



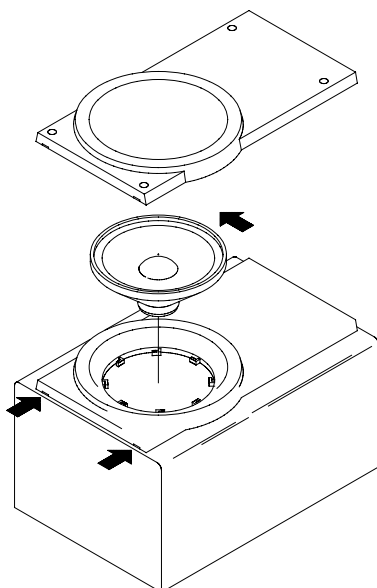
Type.2

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.

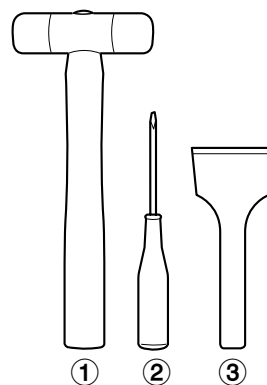


Type.3

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.

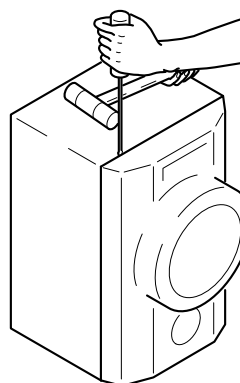


Fig-1

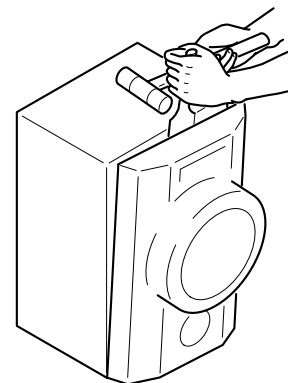


Fig-2

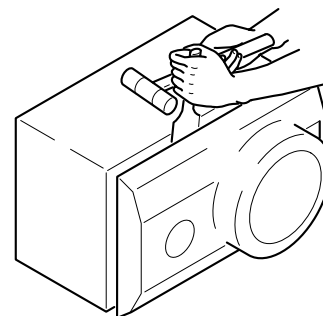


Fig-3

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-WNT99 <YLSL>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NS3-001-010		PANEL, FR
2	8A-NS3-002-010		PANEL, TW L
3	8A-NS3-003-010		PANEL, TW R
4	8A-NS3-006-010		PANEL, TOP
5	8A-NS3-009-010		PROTECTOR, SQA
6	8A-NS3-011-010		PROTECTOR, TWA
7	8A-MS1-602-010		SPKR, W 200
8	8A-NS3-602-010		SPKR, M 100
9	8A-MS2-605-110		SPKR, TW 60
10	88-NSK-610-010		SPKR, CERAMIC ASSY

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
11	88-NS5-610-010		CORD, SPKR
12	88-NS5-611-010		CORD, SPKR B/L
13	8A-NSJ-006-010		BADGE, AIWA S35
14	8A-NS3-014-010		CABI, TOP
16	8A-NS3-004-010		PANEL, DUCT RING
17	8A-NS3-005-010		PANEL, DUCT

ACCESORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF3-902-010		IB, LH (ESP) M<LH>
1	8A-NF3-907-010		IB, HA (S) NEA-ARG<HA>
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT, FEEDER FM
4	8Z-NF5-702-010		RC UNIT, RC-ZAS04

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