

SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-3 PR1NM
BASIC CD MECHANISM : AZG-1 ZD8RDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-DP25	CX-NDP25	SX-NSZ52 SX-R277 SX-C607	RC-ZAS10
NSX-HMT25	CX-NHMT25	SX-NAJ22 SX-R275 SX-C605	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CX-NHMT25 (U), (S/M Code No. 09-002-428-0T1) and CX-NDP25 (LH), (S/M Code No. 09-003-428-0T2).
- If requiring information about the CD mechanism, see Service Manual of AZG-1, (S/M Code No. 09-001-335-3N6).

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>

Power output

Front

LH:

Rated: 50 W + 50 W (6 ohms, THD 1%, 1 kHz)

Reference: 60 W + 60 W (6 ohms, THD 10%, 1 kHz)

U:

50 W + 50 W (50 Hz – 20 kHz, THD less than 1%, 6 ohms)

Rear (Surround)

LH:

Rated: 20 W + 20 W (8 ohms, THD 1%, 1 kHz)

Reference: 25 W + 25 W (8 ohms, THD 10%, 1 kHz)

U:

20 W + 20 W (1 kHz, THD less than 1%, 8 ohms)

Center

LH:

Rated: 20 W (8 ohms, THD 1%, 1 kHz)

Reference: 25 W (8 ohms, THD 10%, 1 kHz)

U:

20 W (1 kHz, THD less than 1%, 8 ohms)

Total harmonic distortion

LH: 0.1% (30 W, 1 kHz, 6 ohms, DIN AUDIO/Front)

U: 0.1% (25 W, 1 kHz, 6 ohms, DIN AUDIO/Front)

Inputs

Outputs

VIDEO/AUX : 300 mV (adjustable)

SPEAKERS : accept speakers of 6 ohms or more

SURROUND SPEAKERS : accept speakers of 8 ohms to 16 ohms

CENTER SPEAKER : accept speakers of 8 ohms or more

SUBWOOFER : 1.6 V

PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format

4 tracks, 2 channels stereo

Frequency response

50 Hz – 15 kHz

Recording system

AC bias

Heads

Deck 1 : Playback head x 1

Deck 2 : Recording/Playback head x 1, erase head x 1

<Compact disc player section>

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

<Speaker system SX-NSZ52, SX-NAJ22>

Speaker system

3 way, bass reflex (magnetic shielded type)

Speaker units

Woofer: 140 mm (5 ⁵/₈ in.) cone type

Tweeter: (2 ³/₈ in.) 60mm cone type

Super tweeter: 20 mm (¹³/₁₆ in.) ceramic type

6 ohms

Impedance

Output sound pressure level 87 dB/W/m

Dimensions (W x H x D)

SX-NSZ52: 240 x 324 x 270 mm

SX-NAJ22: 240 x 324 x 256 mm

(9 ¹/₈ x 12 ⁷/₈ x 10 ¹/₈ in.)

Weight

SX-NSZ52: 4.0 kg

SX-NAJ22: 3.8 kg (8 lbs 6 oz.)

<General>

Power requirements

U: 120 V AC, 60 Hz

LH: 120 V/220 - 230 V/240 V AC switchable, 50/60 Hz

Power consumption

U: 110 W

LH: 125 W

Power consumption in standby mode

with power-economizing mode off

LH: 19 W

U: 20 W

with power-economizing mode on 0.9 W

Dimensions of main unit

260 x 328 x 357.5 mm

(W x H x D)


(10 ¹/₄ x 13 x 14 ¹/₈ in.)

Weight of main unit

8.7 kg (19 lbs 3 oz.)

- Design and specifications are subject to change without notice.

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

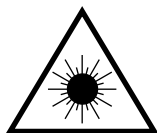
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

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!

Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, 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

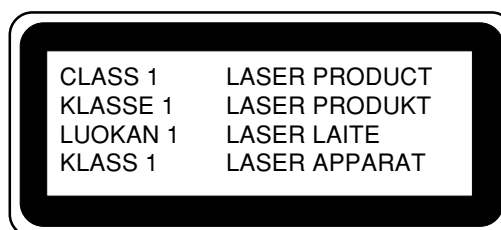
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

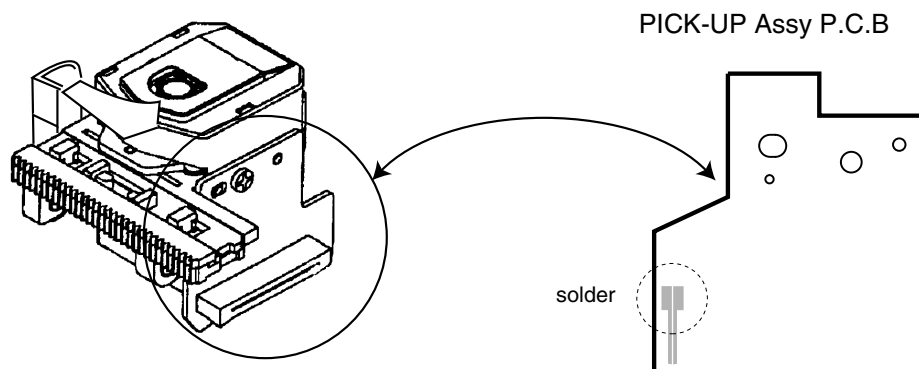
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSM-880CAB)

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

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



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.

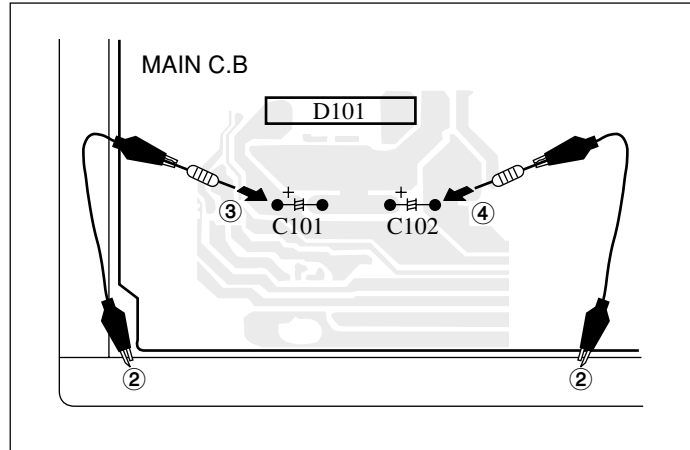


Fig-1

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.

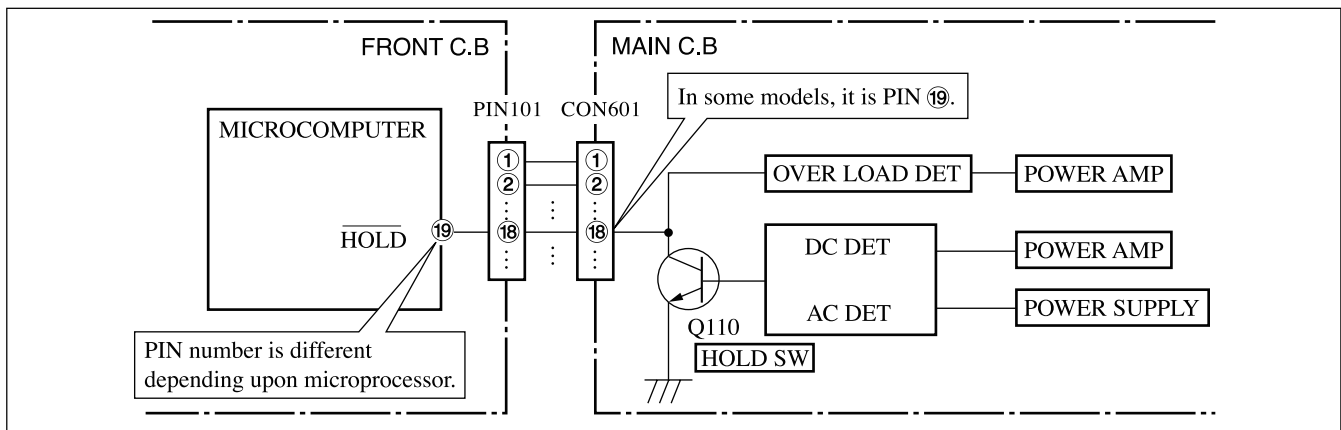


Fig-2-1

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.

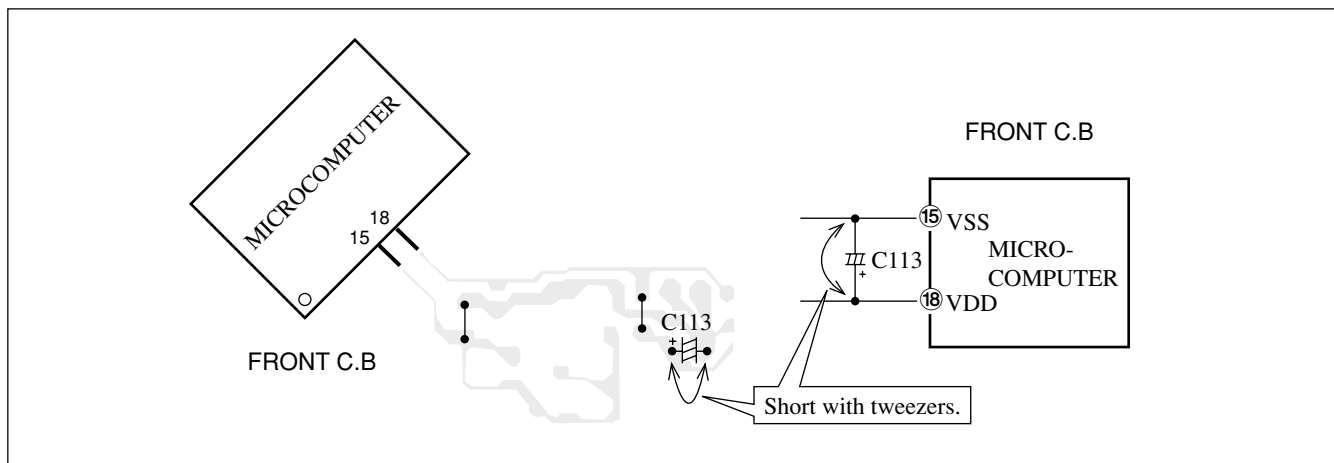


Fig-2-2

- 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				C39	87-010-384-080		CAP, ELECT 100-25V
	87-A21-398-010		IC,STK490-110	C40	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-783-040		C-IC, BA7762AFS	C60	87-010-403-080		CAP, ELECT 3.3-50V
	87-A21-097-040		C-IC,M62463AFP	C115	87-010-404-080		CAP, ELECT 4.7-50V<LH>
	87-A21-452-030		C-IC,BD3876KS2	C116	87-010-404-080		CAP, ELECT 4.7-50V<LH>
	87-A21-415-010		IC, LA1843	C163	87-010-196-080		CHIP CAPACITOR,0.1-25
	8A-NFW-601-010		C-IC,UPD780228GF-060-3BA	C171	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-482-010		IC,RPM6938-H4	C172	87-012-368-080		C-CAP,S 0.1-50 F
	87-070-127-110		IC,LC72131 D	C173	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-269-010		IC,EW732	C174	87-012-368-080		C-CAP,S 0.1-50 F
TRANSISTOR				C301	87-010-318-080		C-CAP,S 47P-50 CH
	87-026-245-080		TR,DTC114ES	C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-026-609-080		TR,KTA1266GR	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-198-080		TR,KTC3199GR	C304	87-012-157-080		C-CAP,S 330P-50 CH
	89-213-702-010		TR,2SB1370 (1.8W)	C305	87-012-157-080		C-CAP,S 330P-50 CH
	87-026-610-080		TR,KTC3198GR	C306	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-076-080		C-TR,2SC3052F	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-075-080		C-TR,2SA1235F	C309	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-318-080		TR,CSA952K	C310	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-107-070		C-TR,CMBT5401	C311	87-010-198-080		CAP, CHIP 0.022
	87-A30-074-080		C-TR,RT1P 141C	C312	87-010-198-080		CAP, CHIP 0.022
	87-A30-468-080		C-TR,KRC102S-RTK	C313	87-010-180-080		C-CER 1500P
	87-A30-106-080		C-TR,CMBT5551	C314	87-010-180-080		C-CER 1500P
	87-A30-087-080		C-FET,2SK2158	C315	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-063-080		C-TR,KRA104S	C316	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-086-040		C-TR,CSD1306E	C321	87-012-142-080		CAP, S 0.33-16
	87-A30-329-080		TR,CD1585BC	C322	87-012-142-080		CAP, S 0.33-16
	89-327-143-080		TR,2SC2714 (0.1W)	C324	87-010-260-080		CAP, ELECT 47-25V
	87-A30-072-080		C-TR,RT1P 144C	C325	87-010-370-080		CAP,E 330-6.3 SME
	87-A30-234-080		TR,CSC4115BC	C327	87-010-404-080		CAP, ELECT 4.7-50V
DIODE				C328	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-548-090		DIODE,D3SBA20	C332	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-447-010		DIODE,GBU4DL	C335	87-010-401-080		CAP, ELECT 1-50V
	87-A40-553-080		DIODE,1N4003 LES	C336	87-010-401-080		CAP, ELECT 1-50V
	87-A40-776-080		ZENER,UZ27BSD	C337	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-764-080		ZENER,UZ10BSC	C339	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-070-274-080		DIODE,1N4003 SEM	C340	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-313-080		C-DIODE,MC 2840	C351	87-012-140-080		CAP 470P
	87-A40-270-080		C-DIODE,MC2838	C352	87-012-140-080		CAP 470P
	87-A40-269-080		C-DIODE,MC2836	C354	87-010-175-080		CAP 560P
	87-A40-854-080		ZENER, UZ15BSA<LH>	C355	87-A11-475-080		C-CAP,S 1000P-50 J CG<U>
	87-020-465-080		DIODE,1SS133	C355	87-012-349-080		C-CAP,S 1000P-50 J CH GRM<LH>
	87-A40-752-080		ZENER,UZ6.2BSC	C356	87-010-260-080		CAP, ELECT 47-25V
	87-A40-760-080		ZENER,UZ9.1BSA	C357	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-747-080		ZENER,UZ5.1BSB	C358	87-010-183-080		C-CAP,S 2700P-50 B
	87-A40-745-080		ZENER,UZ4.7BSA	C359	87-010-183-080		C-CAP,S 2700P-50 B
	87-017-149-080		ZENER,HZS6A2L	C360	87-010-183-080		C-CAP,S 2700P-50 B
MAIN C.B				C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C3	87-012-368-080		C-CAP,S 0.1-50 F	C373	87-016-083-080		C-CAP,S 0.15-16 RK
C4	87-012-368-080		C-CAP,S 0.1-50 F	C374	87-016-083-080		C-CAP,S 0.15-16 RK
C21	87-016-495-000		CAP,E 3300-25 M SMG	C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C22	87-016-495-000		CAP,E 3300-25 M SMG	C379	87-010-382-080		CAP, ELECT 22-25V
C25	87-010-382-080		CAP, ELECT 22-25V	C380	87-010-382-080		CAP, ELECT 22-25V
C26	87-010-382-080		CAP, ELECT 22-25V	C381	87-010-197-080		CAP, CHIP 0.01 DM
C27	87-010-382-080		CAP, ELECT 22-25V	C382	87-010-312-080		C-CAP,S 15P-50 CH
C28	87-010-382-080		CAP, ELECT 22-25V	C383	87-010-197-080		CAP, CHIP 0.01 DM
C31	87-010-263-080		CAP, ELECT 100-10V	C384	87-010-402-080		CAP, ELECT 2.2-50V
C32	87-010-197-080		CAP, CHIP 0.01 DM	C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C33	87-010-263-080		CAP, ELECT 100-10V<U>	C387	87-012-145-080		CAP, CHIP S 270P CH
C34	87-010-260-080		CAP, ELECT 47-25V	C388	87-012-156-080		C-CAP,S 220P-50 CH
C35	87-010-380-080		CAP, ELECT 47-16V	C391	87-010-319-080		C-CAP,S 56P-50 CH
C36	87-010-381-080		CAP, ELECT 330-16V	C392	87-010-319-080		C-CAP,S 56P-50 CH
C38	87-010-384-080		CAP, ELECT 100-25V	C393	87-010-319-080		C-CAP,S 56P-50 CH
				C394	87-010-319-080		C-CAP,S 56P-50 CH
				C401	87-010-176-080		C-CAP,S 680P-50 SL
				C402	87-010-176-080		C-CAP,S 680P-50 SL
				C403	87-010-958-080		CHIP -CAP,S 0.01-25BJ
				C404	87-010-958-080		CHIP -CAP,S 0.01-25BJ
				C405	87-010-958-080		CHIP -CAP,S 0.01-25BJ
				C406	87-010-958-080		CHIP -CAP,S 0.01-25BJ

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C407	87-010-401-080		CAP, ELECT 1-50V	C630	87-010-263-080		CAP, ELECT 100-10V
C408	87-010-401-080		CAP, ELECT 1-50V	C631	87-010-185-080		C-CAP,S 3900P-50 B
C409	87-010-196-080		CHIP CAPACITOR,0.1-25	C632	87-010-185-080		C-CAP,S 3900P-50 B
C410	87-010-112-080		CAP, ELECT 100-16V	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-010-400-080		CAP, ELECT 0.47-50V	C635	87-A10-307-080		CAP,M 0.1-50 J
C412	87-010-400-080		CAP, ELECT 0.47-50V	C636	87-A10-307-080		CAP,M 0.1-50 J
C413	87-010-400-080		CAP, ELECT 0.47-50V	C637	87-A10-307-080		CAP,M 0.1-50 J
C414	87-010-401-080		CAP, ELECT 1-50V	C638	87-A10-307-080		CAP,M 0.1-50 J
C417	87-010-221-080		CAP, ELECT 470-10V	C639	87-010-405-080		CAP, ELECT 10-50V
C418	87-A10-891-080		CAP,E 4.7-25 SME(K)	C644	87-010-401-080		CAP, ELECT 1-50V
C419	87-A10-800-080		C-CAP,S 6800P-16 J B CM	C671	87-010-322-080		C-CAP,S 100P-50 CH
C420	87-010-374-080		CAP, ELECT 47-10V	C672	87-010-322-080		C-CAP,S 100P-50 CH
C421	87-010-196-080		CHIP CAPACITOR,0.1-25	C673	87-010-197-080		CAP, CHIP 0.01 DM
C422	87-A10-804-080		C-CAP,S 0.1-25 J B<LH>	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C422	87-A11-537-080		C-CAP,S 0.1-25 J B<U>	C680	87-010-197-080		CAP, CHIP 0.01 DM
C424	87-010-374-080		CAP, ELECT 47-10V	C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C425	87-010-196-080		CHIP CAPACITOR,0.1-25	C771	87-010-263-080		CAP, ELECT 100-10V
C430	87-012-142-080		CAP, S 0.33-16<U>	C772	87-010-197-080		CAP, CHIP 0.01 DM
C430	87-A10-201-080		CAP, S 0.33-16 K B<LH>	C773	87-010-184-080		CHIP CAPACITOR 3300P(K)<U>
C431	87-010-971-080		C-CAP,S 4700P-50 B J	C774	87-010-184-080		CHIP CAPACITOR 3300P(K)<U>
C432	87-A11-475-080		C-CAP,S 1000P-50 J CG<U>	C779	87-010-426-080		C-CAP,S 0.012-25 KB<LH>
C432	87-012-349-080		C-CAP,S 1000P-50 J CH<LH>	C779	87-A10-679-080		C-CAP,S 3300P-50 JR<U>
C433	87-A11-183-080		C-CAP,S 0.12-16 J B<LH>	C780	87-010-426-080		C-CAP, S 0.012-25 KB<LH>
C433	87-A11-538-080		C-CAP,S 0.12-25 J B<U>	C780	87-A10-679-080		C-CAP,S 3300P-50 JR<U>
C434	87-A11-182-080		C-CAP,S 0.27-16 J B	C782	87-010-197-080		CAP, CHIP 0.01 DM
C435	87-A11-182-080		C-CAP,S 0.27-16 J B	C783	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-A11-183-080		C-CAP,S 0.12-16 J B<LH>	C784	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-A11-538-080		C-CAP,S 0.12-25 J B<U>	C785	87-010-197-080		CAP, CHIP 0.01 DM
C437	87-010-971-080		C-CAP,S 4700P-50 B J	C786	87-010-197-080		CAP, CHIP 0.01 DM
C438	87-A11-475-080		C-CAP,S 1000P-50 J CG<U>	C788	87-010-149-080		C-CAP,S 5P-50 CH
C438	87-012-349-080		C-CAP,S 1000P-50 J CH<LH>	C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C439	87-A11-733-080		C-CAP,S 1-16 Z F	C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C440	87-010-401-080		CAP, ELECT 1-50V	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C441	87-A10-799-080		C-CAP,S 5600P-16 J B CM	C792	87-010-197-080		CAP, CHIP 0.01 DM
C442	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C793	87-010-404-080		CAP, ELECT 4.7-50V
C443	87-A10-229-080		C-CAP,S 0.68-10 K W5	C795	87-010-197-080		CAP, CHIP 0.01 DM
C444	87-012-393-080		C-CAP,S 0.22-16 R K	C796	87-010-197-080		CAP, CHIP 0.01 DM
C445	87-012-393-080		C-CAP,S 0.22-16 R K	C797	87-010-405-080		CAP, ELECT 10-50V
C446	87-010-404-080		CAP, ELECT 4.7-50V	C798	87-010-197-080		CAP, CHIP 0.01 DM
C447	87-010-404-080		CAP, ELECT 4.7-50V	C799	87-010-407-080		CAP, ELECT 33-50V
C448	87-012-393-080		C-CAP,S 0.22-16 R K	C800	87-010-194-080		CAP, CHIP 0.047
C449	87-012-393-080		C-CAP,S 0.22-16 R K	C801	87-010-403-080		CAP, ELECT 3.3-50V
C450	87-016-669-080		C-CAP,S 0.1-25 K B	C802	87-010-194-080		CAP, CHIP 0.047
C451	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C803	87-010-198-080		CAP, CHIP 0.022
C452	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C804	87-010-263-080		CAP, ELECT 100-10V
C453	87-016-669-080		C-CAP,S 0.1-25 K B	C807	87-010-400-080		CAP, ELECT 0.47-50V
C454	87-016-669-080		C-CAP,S 0.1-25 K B	C808	87-010-401-080		CAP, ELECT 1-50V
C455	87-A10-801-080		C-CAP,S 0.022-16 J B<LH>	C809	87-010-401-080		CAP, ELECT 1-50V
C455	87-A11-532-080		C-CAP,S 0.022-50 J B<U>	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C456	87-A10-801-080		C-CAP,S 0.022-16 J B<LH>	C811	87-010-403-080		CAP, ELECT 3.3-50V
C456	87-A11-532-080		C-CAP,S 0.022-50 J B<U>	C812	87-010-403-080		CAP, ELECT 3.3-50V
C457	87-016-669-080		C-CAP,S 0.1-25 K B	C814	87-010-197-080		CAP, CHIP 0.01 DM
C489	87-010-545-080		CAP, ELECT 0.22-50V	C815	87-010-400-080		CAP, ELECT 0.47-50V
C492	87-010-402-080		CAP, ELECT 2.2-50V	C816	87-010-400-080		CAP, ELECT 0.47-50V
C609	87-010-181-080		CAP,CHIP S 1800P	C819	87-010-179-080		CAP,CHIP S B1200P<U>
C610	87-010-181-080		CAP,CHIP S 1800P	C820	87-010-179-080		CAP,CHIP S B1200P<U>
C611	87-010-598-080		C-CAP,S 0.068-16VRK	C821	87-010-405-080		CAP, ELECT 10-50V
C612	87-016-369-080		C-CAP,S 0.033-25 B K	C823	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-010-197-080		CAP, CHIP 0.01 DM	C824	87-010-405-080		CAP, ELECT 10-50V
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C825	87-010-596-080		CAP, S 0.047-16
C618	87-010-401-080		CAP, ELECT 1-50V	C842	87-010-197-080		CAP, CHIP 0.01 DM
C619	87-010-263-080		CAP, ELECT 100-10V	C843	87-010-197-080		CAP, CHIP 0.01 DM
C620	87-016-669-080		C-CAP,S 0.1-25 K B	C844	87-010-197-080		CAP, CHIP 0.01 DM
C621	87-010-197-080		CAP, CHIP 0.01 DM	C845	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V	C846	87-010-197-080		CAP, CHIP 0.01 DM
C624	87-010-401-080		CAP, ELECT 1-50V	C847	87-010-197-080		CAP, CHIP 0.01 DM
C626	87-010-596-080		CAP, S 0.047-16	C848	87-010-197-080		CAP, CHIP 0.01 DM
C627	87-010-400-080		CAP, ELECT 0.47-50V	C849	87-010-197-080		CAP, CHIP 0.01 DM
C628	87-010-400-080		CAP, ELECT 0.47-50V	C850	87-010-260-080		CAP, ELECT 47-25V
C629	87-010-596-080		CAP, S 0.047-16	C851	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C852	87-010-197-080		CAP, CHIP 0.01 DM	C108	87-012-393-080		C-CAP,S 0.22-16 R K
C853	87-010-197-080		CAP, CHIP 0.01 DM	C153	87-010-198-080		CAP, CHIP 0.022
C858	87-010-196-080		CHIP CAPACITOR,0.1-25	C154	87-010-246-040		CAP,E 47-35 SME
C859	87-010-196-080		CHIP CAPACITOR,0.1-25	C155	87-010-404-040		CAP,E 4.7-50 SME
C860	87-010-197-080		CAP, CHIP 0.01 DM	C156	87-010-404-040		CAP,E 4.7-50 SME
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C361	87-010-178-080		CHIP CAP 1000P
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C362	87-010-178-080		CHIP CAP 1000P
C961	87-010-152-080		C-CAP,S 8P-50 CH	C371	87-010-178-080		CHIP CAP 1000P
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	C372	87-010-178-080		CHIP CAP 1000P
C971	87-010-381-080		CAP, ELECT 330-16V	C601	87-010-382-040		CAP,E 22-25 SME
C972	87-010-404-080		CAP, ELECT 4.7-50V	C801	87-010-195-080		C-CAP,S 0.068-25 F
C973	87-010-197-080		CAP, CHIP 0.01 DM	C802	87-010-195-080		C-CAP,S 0.068-25 F
C974	87-010-197-080		CAP, CHIP 0.01 DM	C803	87-010-402-040		CAP,E 2.2-50 SME
C979	87-010-322-080		C-CAP,S 100P-50 CH	C804	87-010-402-040		CAP,E 2.2-50 SME
C981	87-010-260-080		CAP, ELECT 47-25V	C805	87-010-196-080		CHIP CAPACITOR,0.1-25
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C806	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01 DM	C901	87-010-322-080		C-CAP,S 100P-50 CH
C984	87-010-197-080		CAP, CHIP 0.01 DM	C902	87-010-322-080		C-CAP,S 100P-50 CH
C987	87-010-197-080		CAP, CHIP 0.01 DM	C903	87-010-322-080		C-CAP,S 100P-50 CH
C991	87-010-312-080		C-CAP,S 15P-50 CH	C904	87-010-322-080		C-CAP,S 100P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH	C905	87-010-322-080		C-CAP,S 100P-50 CH
C993	87-010-178-080		CHIP CAP 1000P	C906	87-010-322-080		C-CAP,S 100P-50 CH
C995	87-010-178-080		CHIP CAP 1000P	C907	87-010-322-080		C-CAP,S 100P-50 CH
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C908	87-010-322-080		C-CAP,S 100P-50 CH
C998	87-010-260-080		CAP, ELECT 47-25V	C909	87-010-322-080		C-CAP,S 100P-50 CH
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C910	87-010-322-080		C-CAP,S 100P-50 CH
CF831	87-008-261-010		FILTER, SFE10.7MA5-A	C911	87-010-178-080		CHIP CAP 1000P
CF832	87-008-261-010		FILTER, SFE10.7MA5-A	C912	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C913	87-010-248-040		CAP,E 220-10 SME
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C914	87-010-248-040		CAP,E 220-10 SME
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C915	87-010-196-080		CHIP CAPACITOR,0.1-25
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C916	87-010-196-080		CHIP CAPACITOR,0.1-25
CN601	87-099-719-010		CONN,30P TYK-B(X)	C917	87-010-196-080		CHIP CAPACITOR,0.1-25
CN602	87-A60-131-010		CONN,6P V FE	C919	87-010-197-080		CAP, CHIP 0.01 DM
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C920	87-012-369-080		C-CAP,S 0.047-50F
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C921	87-010-186-080		CAP,CHIP 4700P
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)	C951	87-010-312-080		C-CAP,S 15P-50 CH
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C952	87-012-155-080		C-CAP 180P-50CH
J604	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C953	87-012-140-080		CAP 470P
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C961	87-010-378-040		CAP,E 10-16
L101	87-A50-610-010		COIL,1UH K(MDEC)	C962	87-012-157-080		C-CAP,S 330P-50 CH
L102	87-A50-610-010		COIL,1UH K(MDEC)	C963	87-010-196-080		CHIP CAPACITOR,0.1-25
L301	87-A50-049-010		COIL,TRAP 85K(COI)	CN104	87-A60-057-010		CONN,11P V 9604S-11C
L302	87-A50-049-010		COIL,TRAP 85K(COI)	CN701	87-099-720-010		CONN,30P TYK-B(P)
L351	87-007-342-010		COIL,OSC 85K BIAS	CN731	87-099-015-010		CONN,13P 6216V
L801	87-A50-266-010		COIL,FM DET-2N(TOK)	FL901	8A-NF9-605-010		FL,HNA-10SS12
L802	87-A91-110-010		FLTR,PCFJZH-450 (TOK)	L951	87-A50-434-010		COIL,CLK 4.19M(TOKO)
L811	87-005-847-080		COIL,2.2UH(CECS)	LED201	87-A40-619-040		LED,SLR-56PT-T31-W GRN
L832	87-005-847-080		COIL,2.2UH(CECS)	LED202	87-A40-619-040		LED,SLR-56PT-T31-W GRN
L951	8Z-ZA1-650-010		COIL,AM PACK4C (TOK)	LED204	87-A40-619-040		LED,SLR-56PT-T31-W GRN
R161	87-A00-440-050		RES,220-1/2W J RP	LED205	87-A40-619-040		LED,SLR-56PT-T31-W GRN
R162	87-A00-440-050		RES,220-1/2W J RP	LED207	87-A40-266-080		LED,SLH-56VCT31 RED
R163	87-A00-440-050		RES,220-1/2W J RP	LED208	87-A40-266-080		LED,SLH-56VCT31 RED
R164	87-A00-440-050		RES,220-1/2W J RP	LED209	87-A40-317-080		LED,SLR-342VCT31 RED
R790	87-010-197-080		CAP, CHIP 0.01 DM	LED210	87-A40-619-040		LED,SLR-56PT-T31-W GRN
R991	87-010-322-080		C-CAP,S 100P-50 CH	S301	87-A90-164-080		SW,TACT SKQAB(N)
R993	87-010-322-080		C-CAP,S 100P-50 CH	S302	87-A90-164-080		SW,TACT SKQAB(N)
R995	87-010-322-080		C-CAP,S 100P-50 CH	S303	87-A90-164-080		SW,TACT SKQAB(N)
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA	S304	87-A90-164-080		SW,TACT SKQAB(N)
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA	S305	87-A90-164-080		SW,TACT SKQAB(N)
WH1	87-A90-510-010		HLD, WIRE 2.5-9P	S306	87-A90-164-080		SW,TACT SKQAB(N)
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	S307	87-A90-164-080		SW,TACT SKQAB(N)
				S308	87-A90-164-080		SW,TACT SKQAB(N)
				S309	87-A90-164-080		SW,TACT SKQAB(N)
				S310	87-A90-164-080		SW,TACT SKQAB(N)
FRONT C.B							
C101	87-010-196-080		CHIP CAPACITOR,0.1-25	S321	87-A90-164-080		SW,TACT SKQAB(N)
C102	87-010-196-080		CHIP CAPACITOR,0.1-25	S322	87-A90-164-080		SW,TACT SKQAB(N)
C103	87-010-498-040		CAP,E 10-16 GAS	S323	87-A90-164-080		SW,TACT SKQAB(N)
C104	87-010-196-080		CHIP CAPACITOR,0.1-25	S324	87-A90-164-080		SW,TACT SKQAB(N)
C107	87-010-493-040		CAP,E 0.47-50 GAS	S325	87-A90-164-080		SW,TACT SKQAB(N)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S326	87-A90-164-080		SW, TACT SKQAB (N)	PT C.B			
S341	87-A90-164-080		SW, TACT SKQAB (N)				
S342	87-A90-164-080		SW, TACT SKQAB (N)	C1	87-010-387-080		CAP, E 470-25 SME
S343	87-A90-164-080		SW, TACT SKQAB (N)	C4	87-A11-148-080		CAP, TC U 0.1-50 Z F
S344	87-A90-164-080		SW, TACT SKQAB (N)	C5	87-A11-148-080		CAP, TC U 0.1-50 Z F
S345	87-A90-164-080		SW, TACT SKQAB (N)	C6	87-A10-627-090		CAP, E 2200-50 M SMG
S346	87-A90-164-080		SW, TACT SKQAB (N)	C7	87-A10-627-090		CAP, E 2200-50 M SMG
S347	87-A90-164-080		SW, TACT SKQAB (N)	C8	87-A11-148-080		CAP, TC U 0.1-50 Z F
S348	87-A90-164-080		SW, TACT SKQAB (N)	C9	87-A11-148-080		CAP, TC U 0.1-50 Z F
S349	87-A90-164-080		SW, TACT SKQAB (N)	C10	87-A11-148-080		CAP, TC U 0.1-50 Z F
S350	87-A90-164-080		SW, TACT SKQAB (N)	C11	87-A11-148-080		CAP, TC U 0.1-50 Z F
S361	87-A91-633-010		SW, RTRY XRE012103PVB25FINA 1-2	C12	87-A12-036-000		CAP, E 2200-63 SMG
S371	87-A91-632-010		SW, RTRY XRE012103PVB25FINB 1-2	C13	87-A12-036-000		CAP, E 2200-63 SMG
				C14	87-A11-148-080		CAP, TC U 0.1-50 Z F
				C15	87-A11-148-080		CAP, TC U 0.1-50 Z F
				C16	87-010-403-080		CAP, ELECT 3.3-50V
				CN1	87-A61-110-010		CONN, 9P V TID-A
AMP 1F C.B				CN2	87-A61-108-010		CONN, 5P V TID-A
C101	87-010-185-080		C-CAP, S 3900P-50 B	△ PT1	8A-NFW-612-010		PT, ANF-29 U<U>
C102	87-010-185-080		C-CAP, S 3900P-50 B	△ PT1	8A-NFW-615-010		PT, ANF-29 LH<LH>
C103	87-010-545-080		CAP, ELECT 0.22-50V	△ PT2	8A-NF8-673-010		PT, SUB ANF-8 (H) KAMI<LH>
C104	87-010-545-080		CAP, ELECT 0.22-50V	△ PT2	8A-NF8-661-010		PT, SUB ANF-8 (U) <U>
C105	87-010-188-080		CAP, CHIP 6800P	△ RY1	87-A91-339-010		RELAY, AC DC12V G5PA-2<LH>
C106	87-010-188-080		CAP, CHIP 6800P	△ RY2	87-A91-418-010		RELAY, AC12V G5PA-1-M<U>
C107	87-010-404-080		CAP, ELECT 4.7-50V	△ S1	87-A90-165-010		SW, SL 1-2-3 SWS2301<LH>
C108	87-010-404-080		CAP, ELECT 4.7-50V	△ T1	87-A60-317-010		TERMINAL, 1P MSC
C113	87-010-405-080		CAP, ELECT 10-50V	△ T2	87-A60-317-010		TERMINAL, 1P MSC
C114	87-010-405-080		CAP, ELECT 10-50V				
C115	87-010-405-080		CAP, ELECT 10-50V				
C116	87-010-405-080		CAP, ELECT 10-50V				
C119	87-010-197-080		CAP, CHIP 0.01 DM	DECK C.B			
C120	87-010-197-080		CAP, CHIP 0.01 DM	CN1	87-099-753-010		CONN, 11P H 9604
C121	87-010-197-080		CAP, CHIP 0.01 DM	HL1	8Z-ZM3-214-010		HLDR, IC
C133	87-010-186-080		CAP, CHIP 4700P	SFR1	87-024-581-010		SFR, 3.3K DIA6V K0A
C153	87-010-183-080		C-CAP, S 2700P-50 B	SW1	87-A90-673-010		SW, MICRO ESE11SH1C
C205	87-010-183-080		C-CAP, S 2700P-50 B	SW2	87-A91-500-010		SW, MICRO MPU11470MLB0
C206	87-010-183-080		C-CAP, S 2700P-50 B				
C207	87-010-545-080		CAP, ELECT 0.22-50V	SW3	87-A91-500-010		SW, MICRO MPU11470MLB0
C208	87-010-545-080		CAP, ELECT 0.22-50V	SW4	87-A91-500-010		SW, MICRO MPU11470MLB0
C209	87-010-178-080		CHIP CAP 1000P	SW5	87-A90-673-010		SW, MICRO ESE11SH1C
C210	87-010-178-080		CHIP CAP 1000P				
C211	87-010-403-080		CAP, ELECT 3.3-50V				
C212	87-010-403-080		CAP, ELECT 3.3-50V				
C215	87-012-140-080		CAP 470P-50 J CH				
C216	87-012-140-080		CAP 470P-50 J CH				
C217	87-010-405-080		CAP, ELECT 10-50V				
C218	87-010-405-080		CAP, ELECT 10-50V				
C221	87-010-405-080		CAP, ELECT 10-50V				
C222	87-010-405-080		CAP, ELECT 10-50V				
C223	87-010-197-080		CAP, CHIP 0.01 DM				
C224	87-010-197-080		CAP, CHIP 0.01 DM				
C251	87-010-993-080		C-CAP, S 0.056-25 B				
C252	87-010-993-080		C-CAP, S 0.056-25 B				
C253	87-010-196-080		CHIP CAPACITOR, 0.1-25				
C254	87-010-196-080		CHIP CAPACITOR, 0.1-25				
C259	87-010-190-080		S CHIP F 0.01				
C260	87-010-190-080		S CHIP F 0.01				
C401	87-010-260-080		CAP, ELECT 47-25V				
CN101	87-A61-011-010		CONN, 13P H BLK TAC-L13P-A3				
CN102	87-A61-011-010		CONN, 13P H BLK TAC-L13P-A3				
CNA101	8A-NF8-656-010		CONN ASSY, 5P TID-A 400				
J201	87-A61-159-010		JACK, PIN 4P R/W/B/O KM				
L251	87-A50-610-010		COIL, 1UH K(MDEC)				
L252	87-A50-610-010		COIL, 1UH K(MDEC)				
R129	87-A00-669-080		RES, M/F 0.22-2W J RA				
R130	87-A00-669-080		RES, M/F 0.22-2W J RA				
R181	87-A00-669-080		RES, M/F 0.22-2W J RA				
R182	87-A00-669-080		RES, M/F 0.22-2W J RA				
R231	87-A00-258-080		RES, M/F 0.22-1W J				
R232	87-A00-257-080		RES, M/F 0.15-1W J				
WH101	87-A90-459-010		HLDR, WIRE 2.5-5P				

TRANSISTOR ILLUSTRATION



E C B

CD1585BC
CSA952K
KTA1266GR
KTC3198GR



E C B

DTC114ES
KTC3199GR



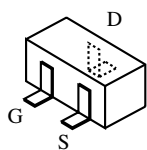
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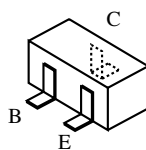


B C E

2SB1370



2SK2158

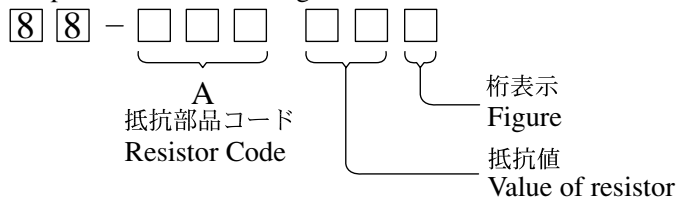


2SA1235F CSD1306E
2SC2714 KRA104S
2SC3052F KRC102S-RTK
CMBT5401 RT1P141C
CMBT5551 RT1P144C

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding

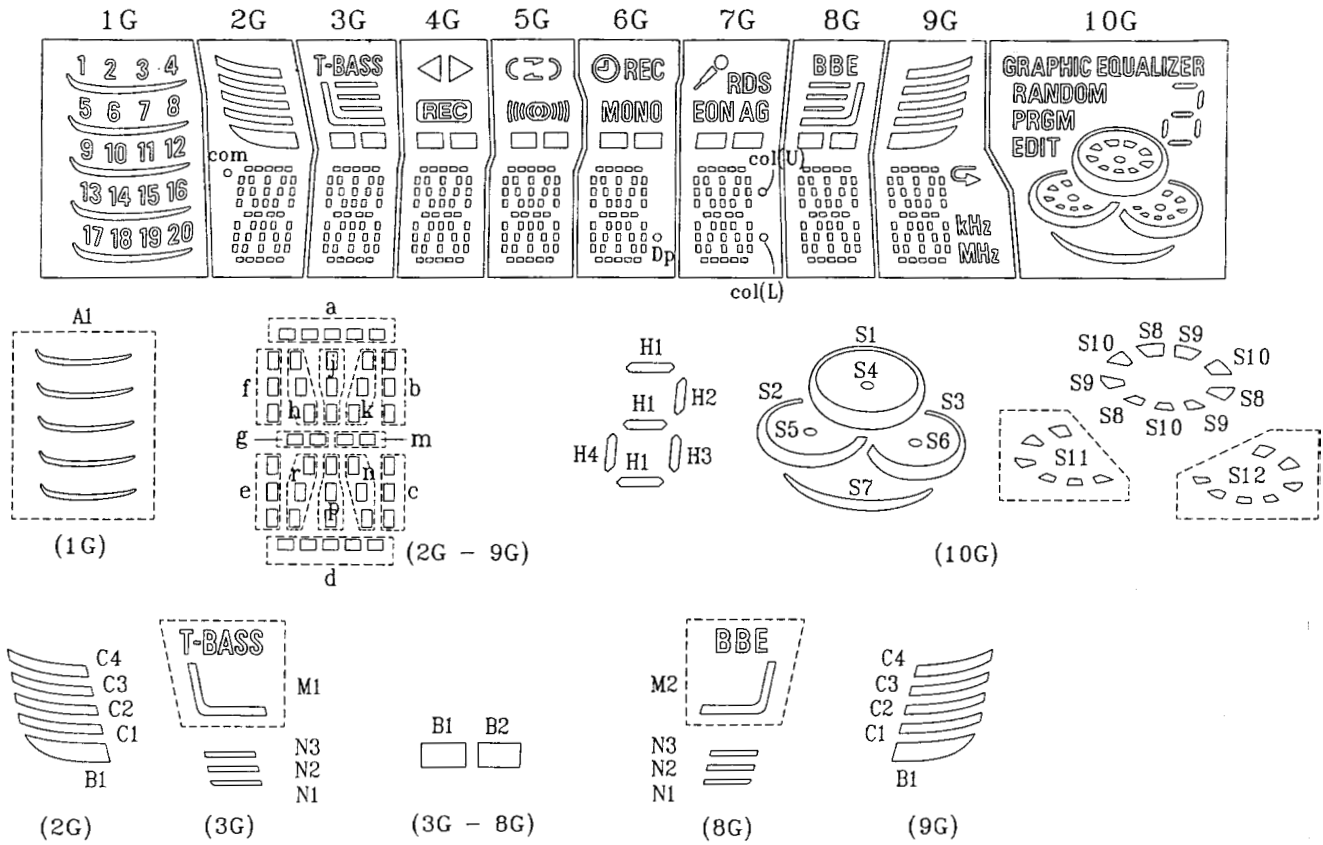


チップ抵抗 Chip resistor

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

FL (HNA-10SS12) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

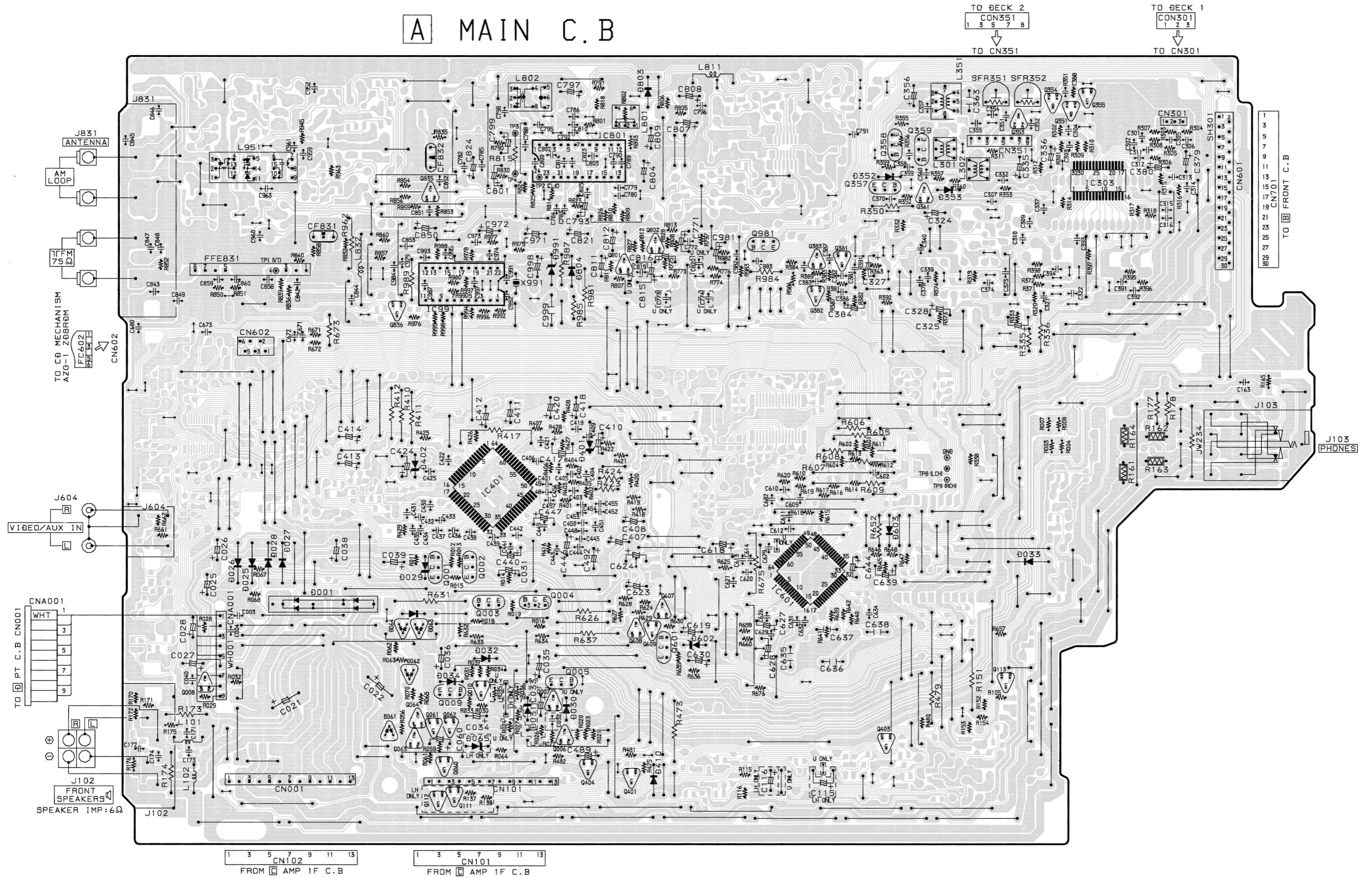


ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G
P1	20	d	d	d	d	d	d	d	d	S1
P2	19	n	n	n	n	n	n	n	n	S2
P3	18	P	P	P	P	P	P	P	P	S3
P4	17	r	r	r	r	r	r	r	r	S4
P5	16	e	e	e	e	e	e	e	e	S5
P6	15	c	c	c	c	c	c	c	c	S6
P7	14	g	g	g	g	g	g	g	g	S7
P8	13	m	m	m	m	m	m	m	m	S8
P9	12	f	f	f	f	f	f	f	f	S9
P10	11	b	b	b	b	b	b	b	b	S10
P11	10	k	k	k	k	k	k	k	k	S11
P12	9	j	j	j	j	j	j	j	j	S12
P13	8	h	h	h	h	h	h	h	h	EDIT
P14	7	a	a	a	a	a	a	a	a	PRGM
P15	6	B1	B1	B1	B1	B1	B1	B1	B1	RANDOM
P16	5	C1	B2	B2	B2	B2	B2	B2	C1	GRAPHIC EQUALIZER
P17	4	C2	M1	REC	((()))	Dp	col(U)	M2	C2	H1
P18	3	C3	N1	<	C	MONO	col(L)	N1	C3	H2
P19	2	C4	N2	>	⌌	REC	EON	N2	C4	H3
P20	1	com	N3)	Ⓞ	AG	N3	↶	H4
P21	A1						RDS		kHz	
P22								MHz		

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A MAIN C.B



1 3 5 7 9 11 13
CN102
FROM AMP 1F C.B

1 3 5 7 9 11 13
CN101
FROM AMP 1F C.B

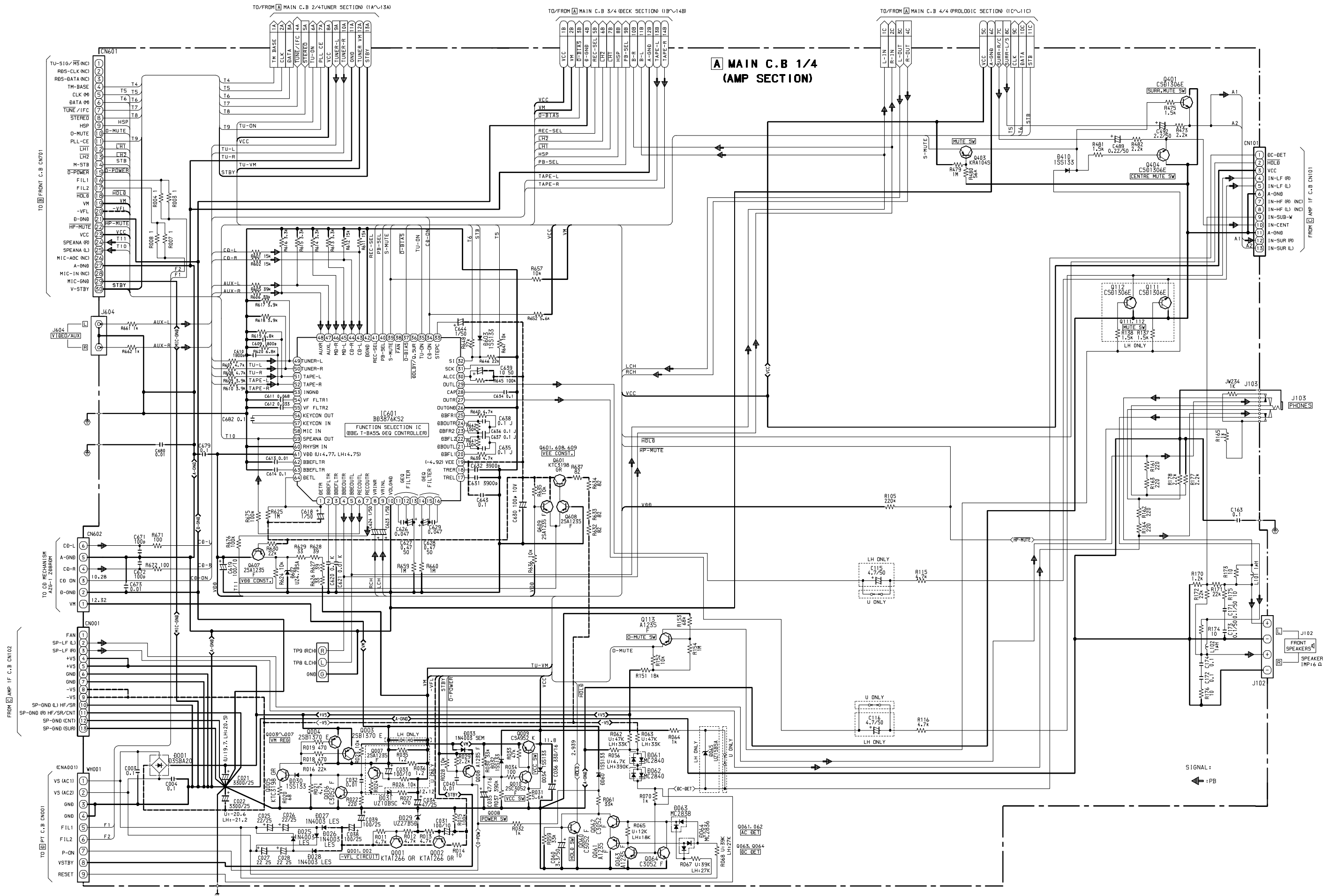
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 30
CN701
TO FRONT C.B

TO DECK 2
CON351
1 3 5 7 8
TO CN351

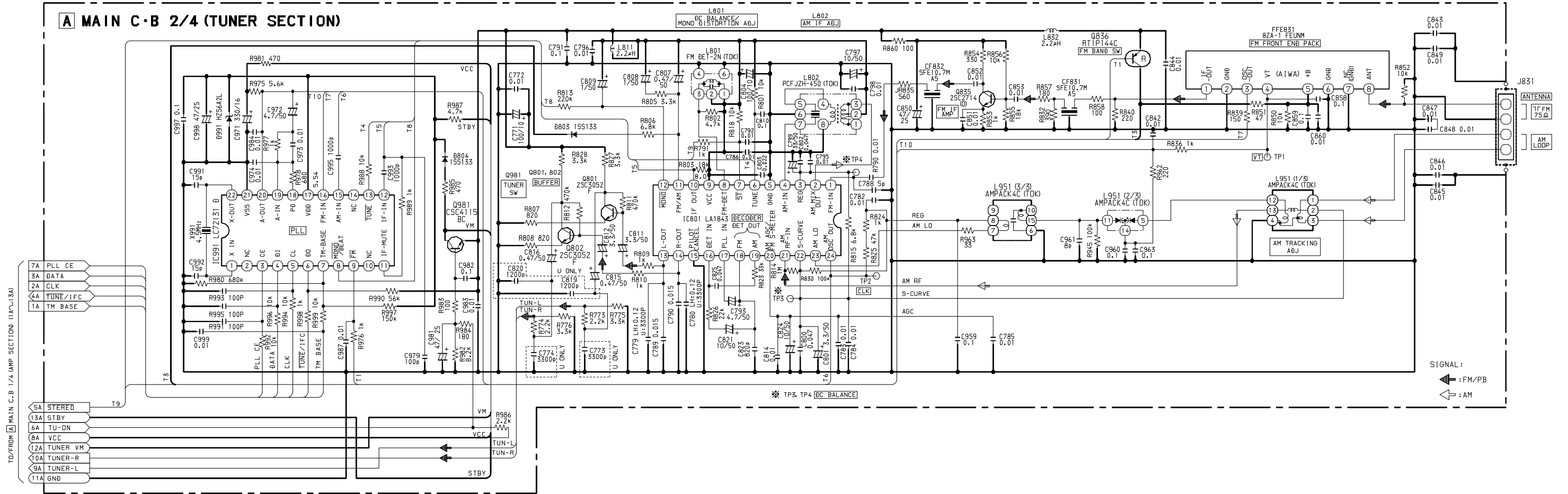
TO DECK 1
CON301
1 2 3
TO CN301

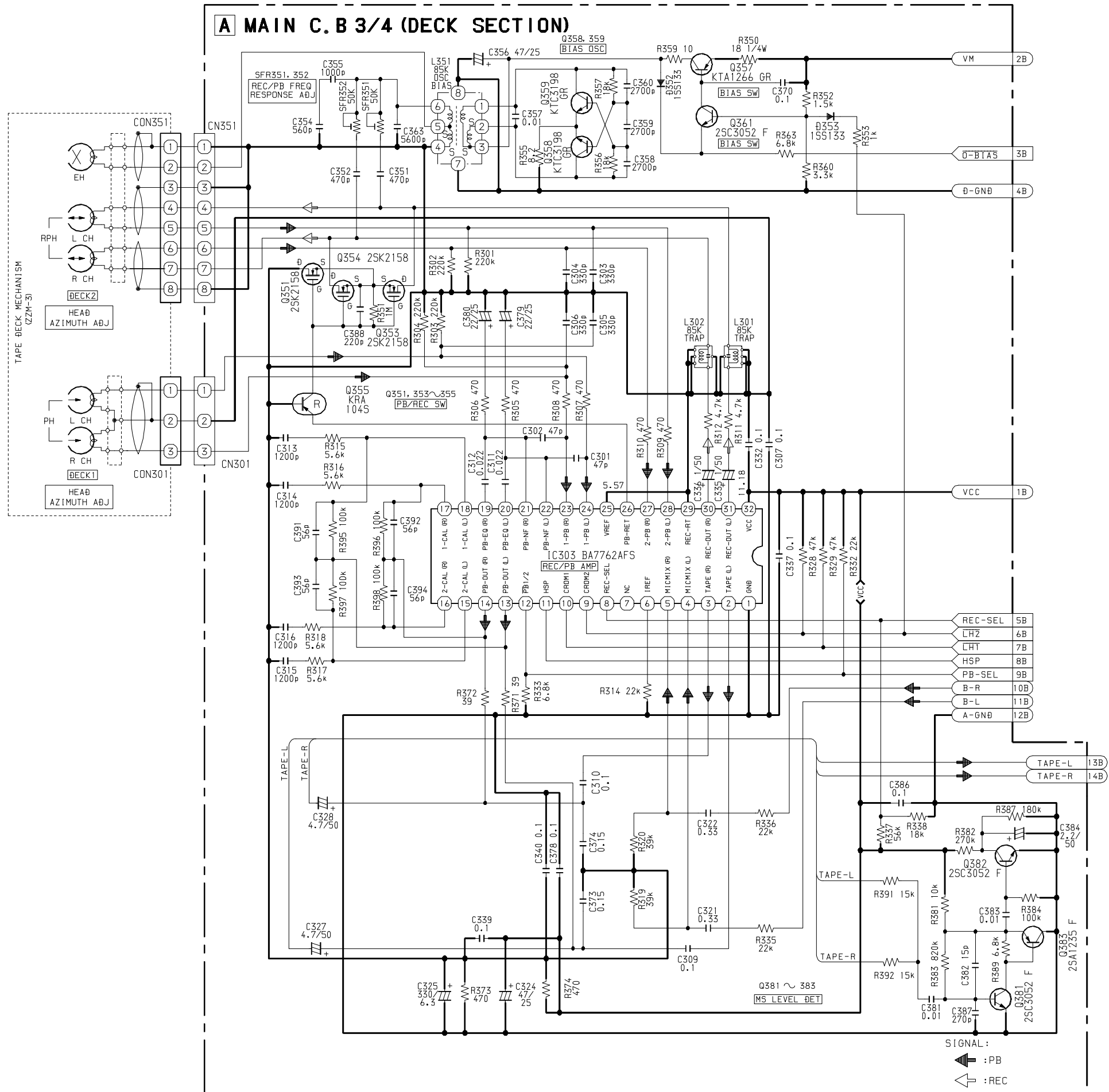
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SCHEMATIC DIAGRAM - 1 (MAIN 1/4 : AMP)

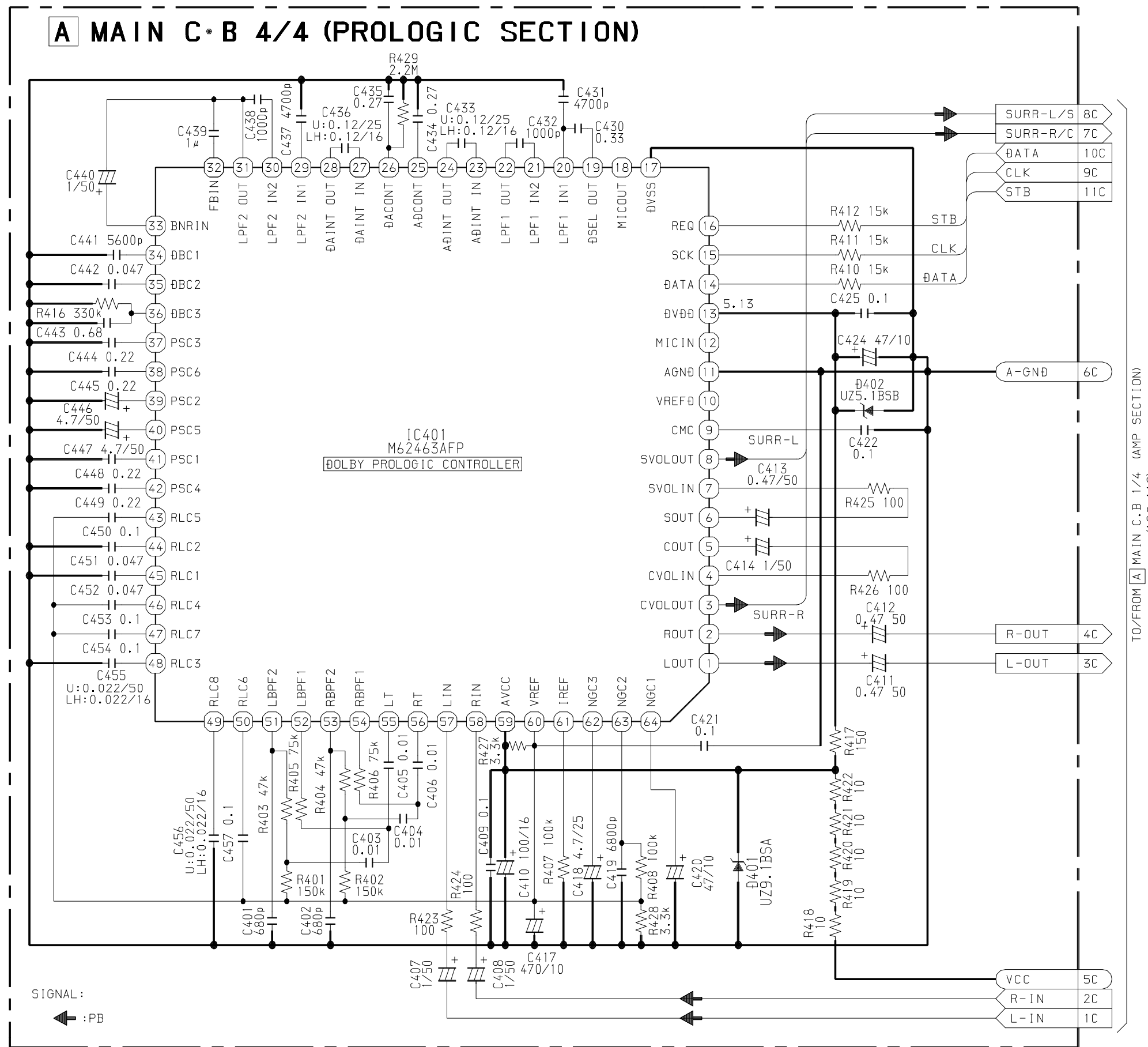


SCHEMATIC DIAGRAM-2 (MAIN 2/4:TUNER)





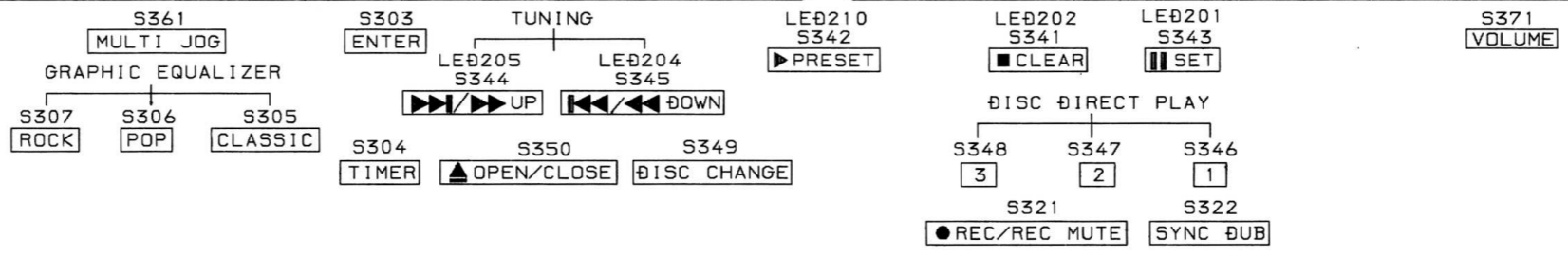
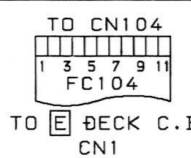
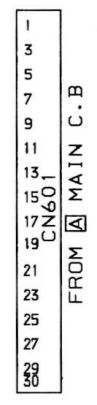
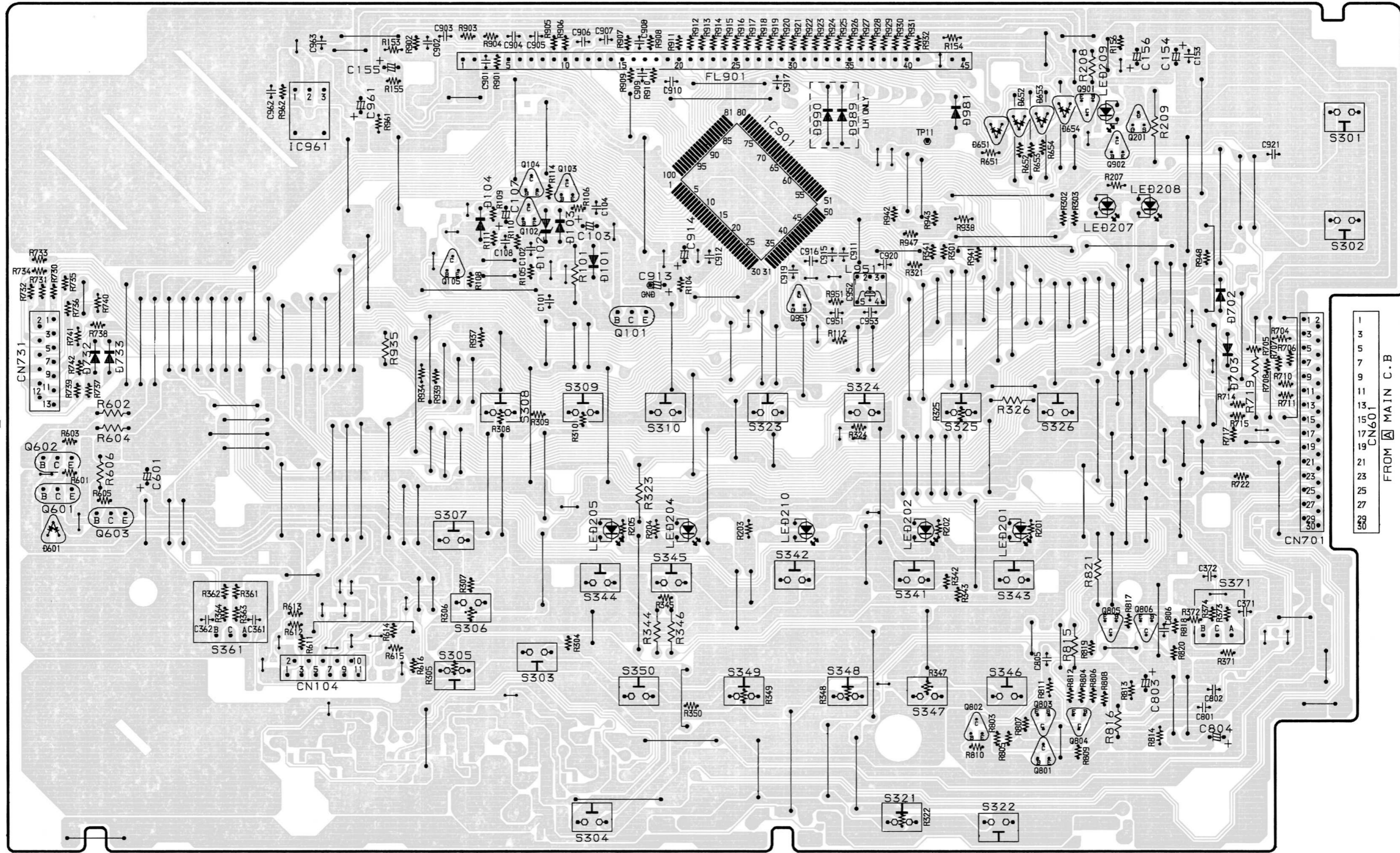
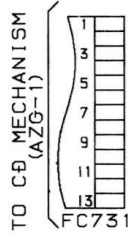
TD/FROM MAIN C. B 1/4 (AMP SECTION) (1BC-14B)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

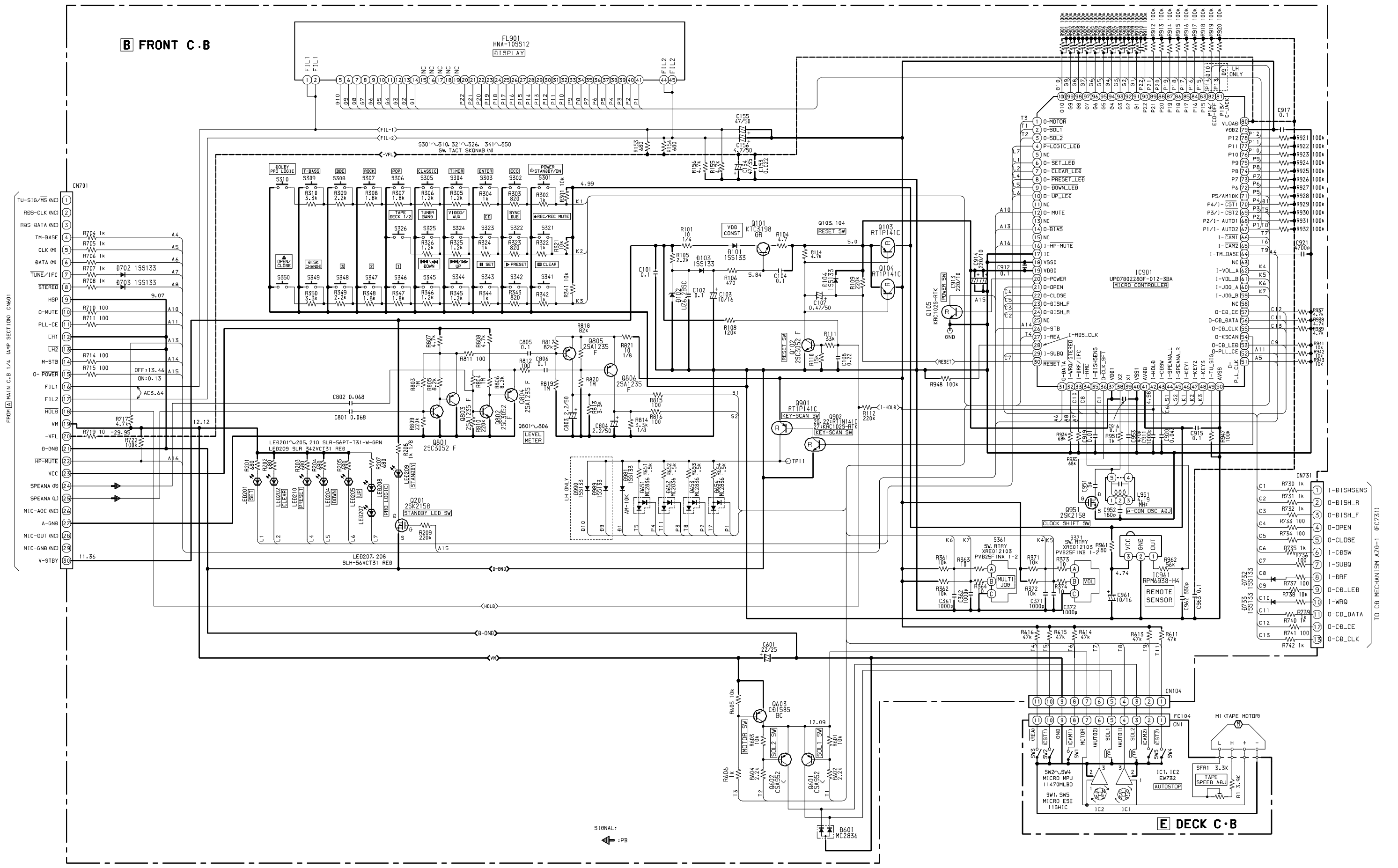
B FRONT C. B

IC961 (REMOTE SENSOR) S308 [BBE] S309 [T-BASS] S310 [DOLBY PRO LOGIC] FL901 [DISPLAY] S323 [CD] S324 [VIDEO/AUX] S325 [TUNER BAND] S326 [TAPE DECK 1/2] LED209 (STANDBY) LED207, 208 (PRO LOGIC) S302 [ECO] S301 [POWER STANDBY/ON]



A B C D E F G H I J K L M N O P Q R S T U

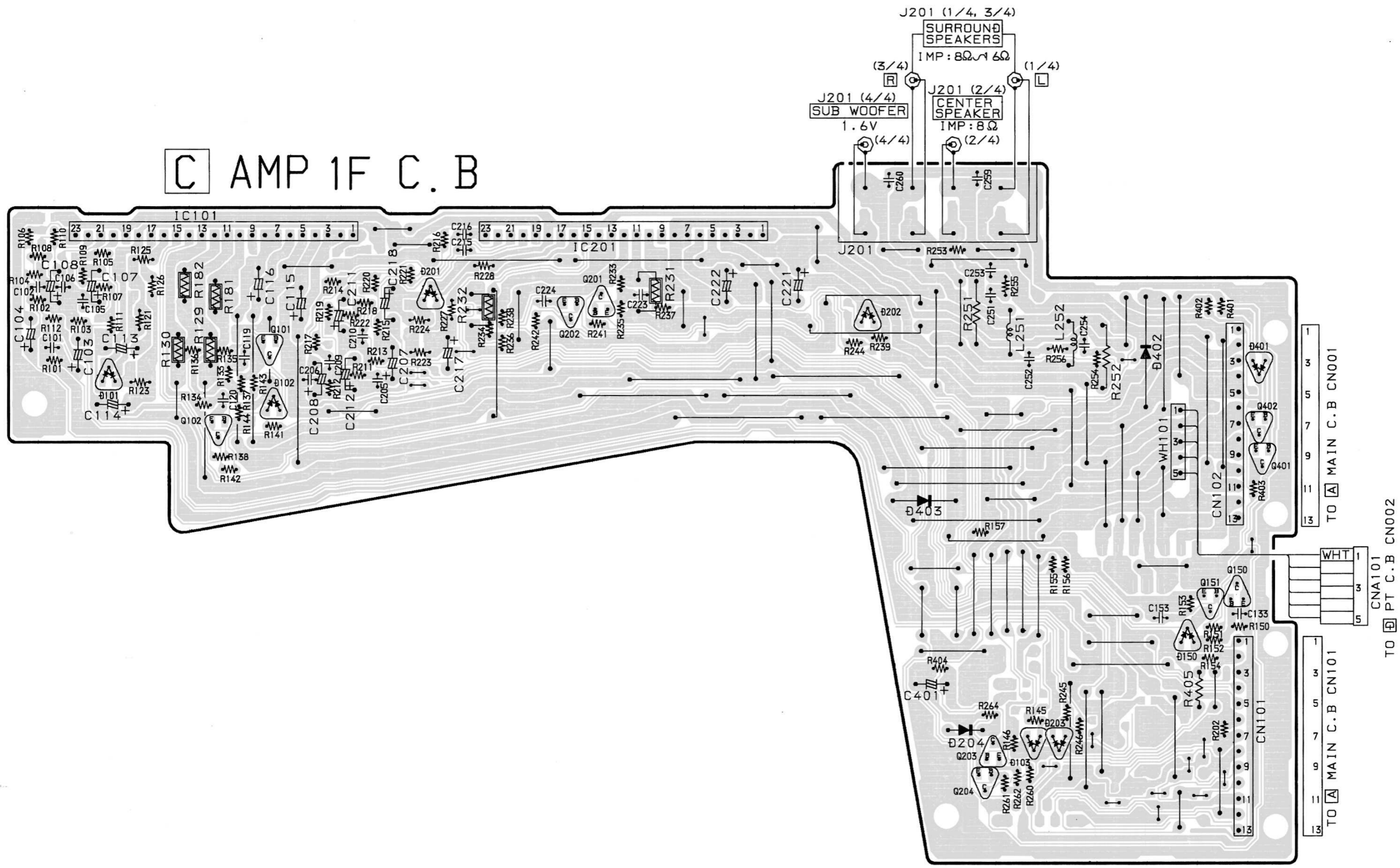
SCHEMATIC DIAGRAM - 5 (FRONT)



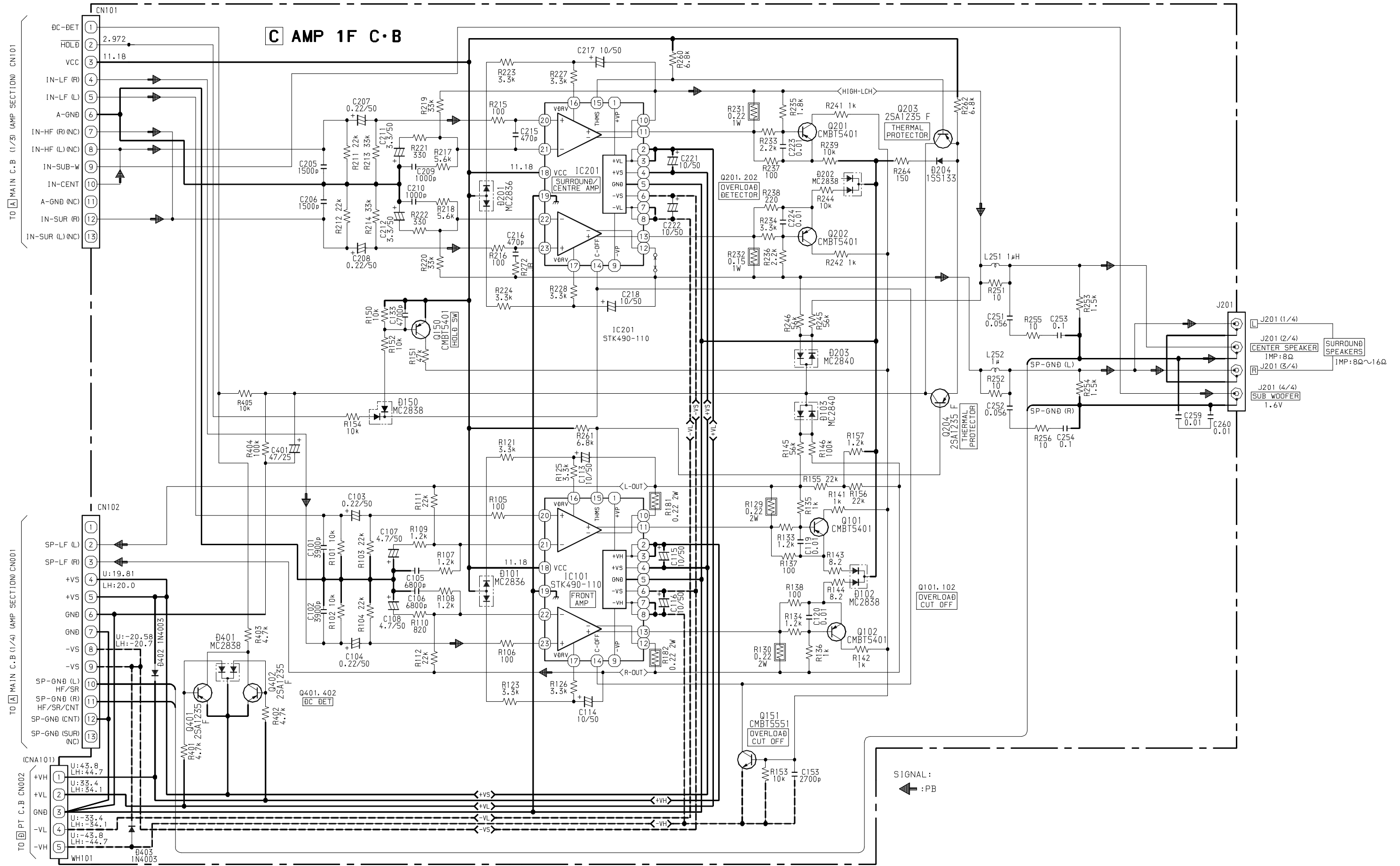
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C AMP 1F C.B



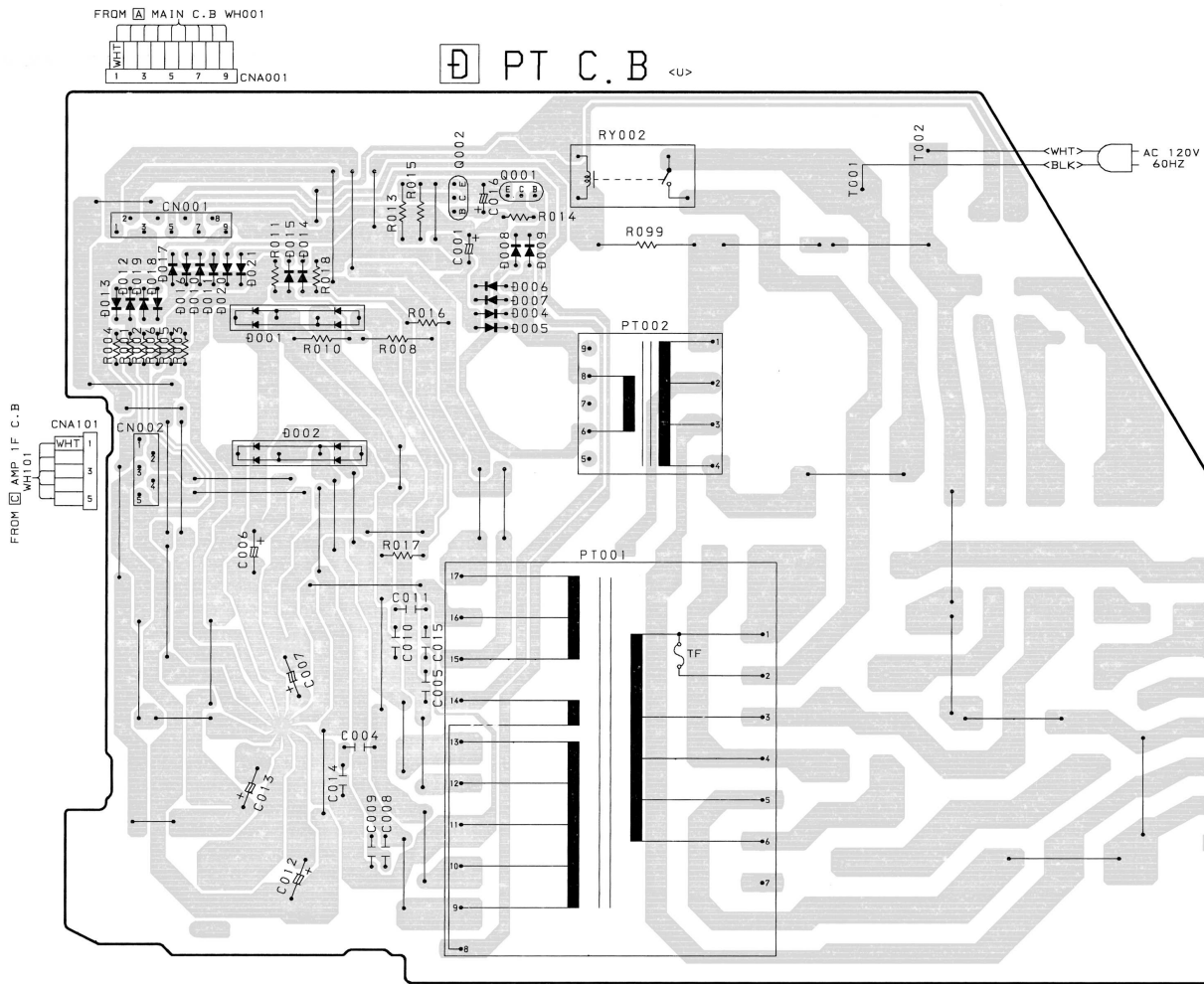
SCHEMATIC DIAGRAM - 6 (AMP 1F)



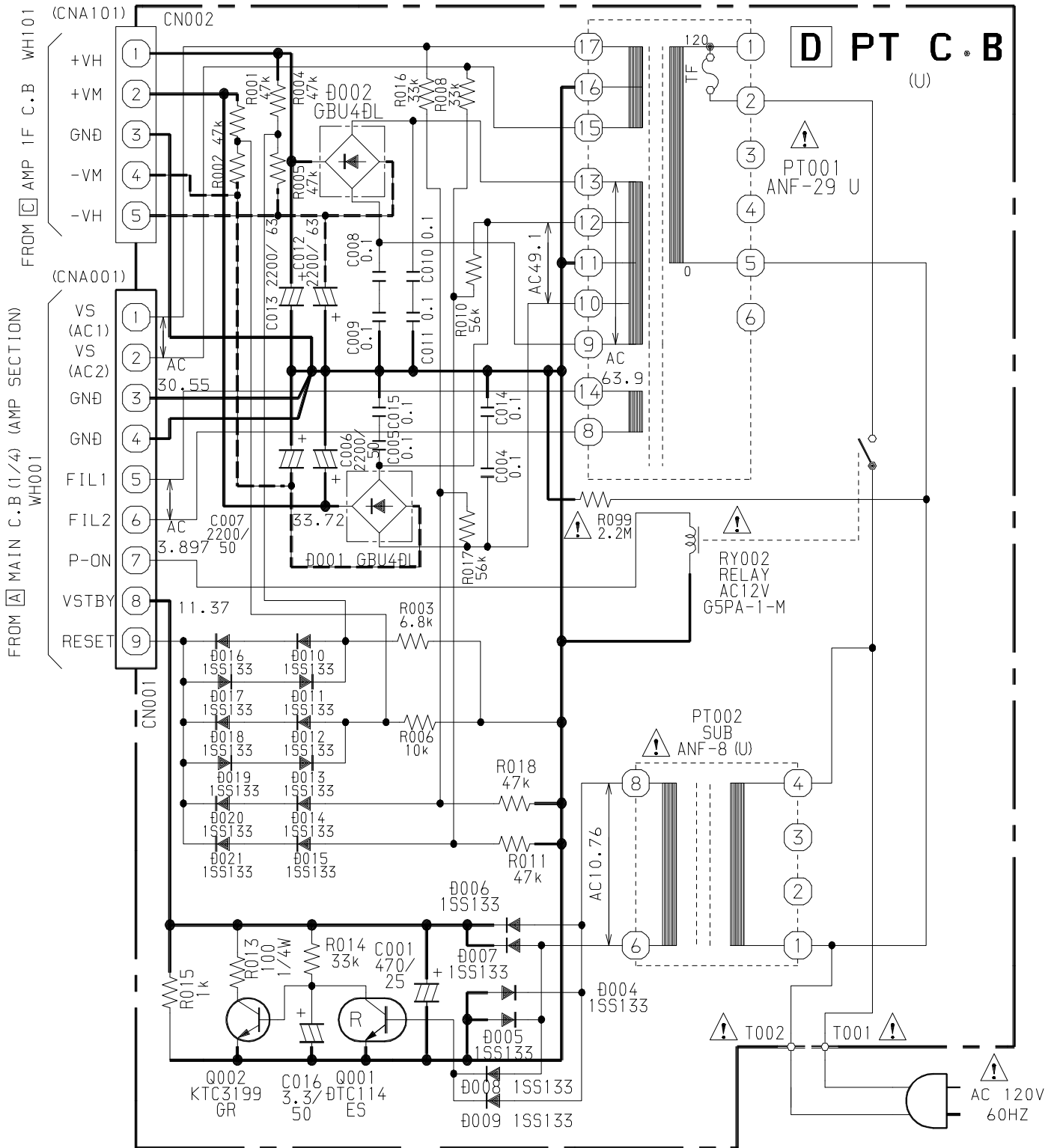
WIRING - 4 (PT : U)

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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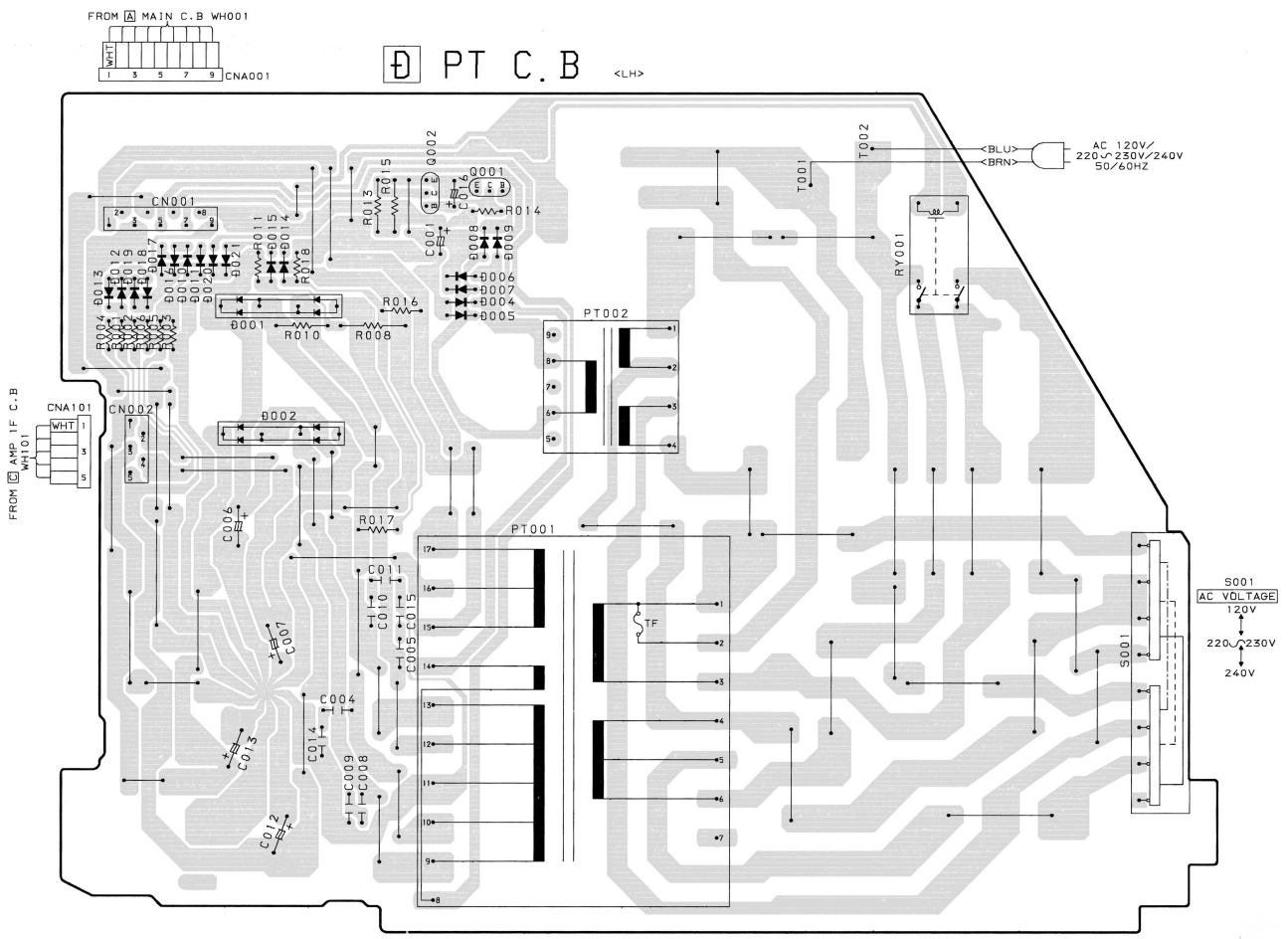
SCHEMATIC DIAGRAM - 7 (PT : U)



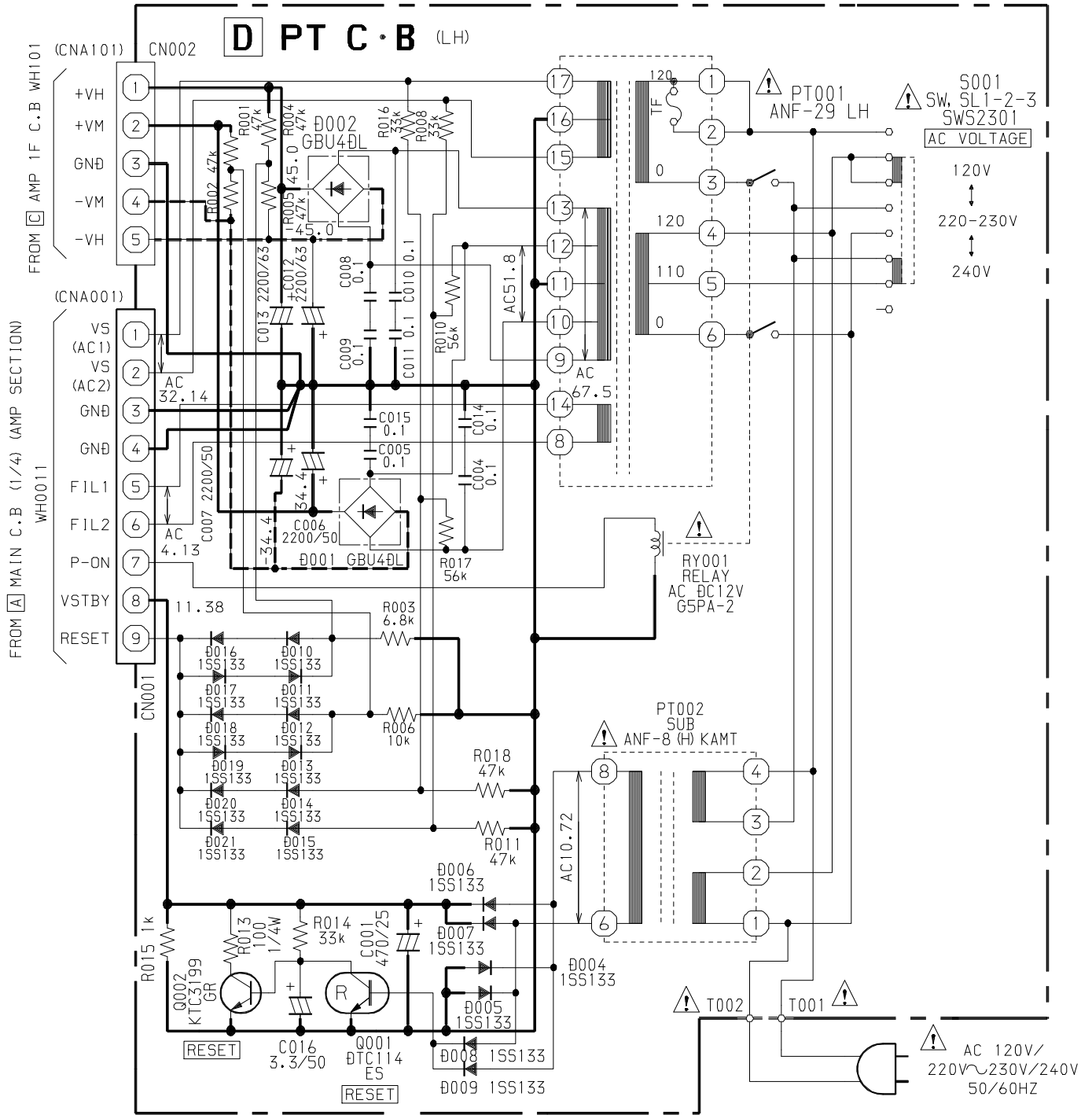
WIRING - 5 (PT : LH)

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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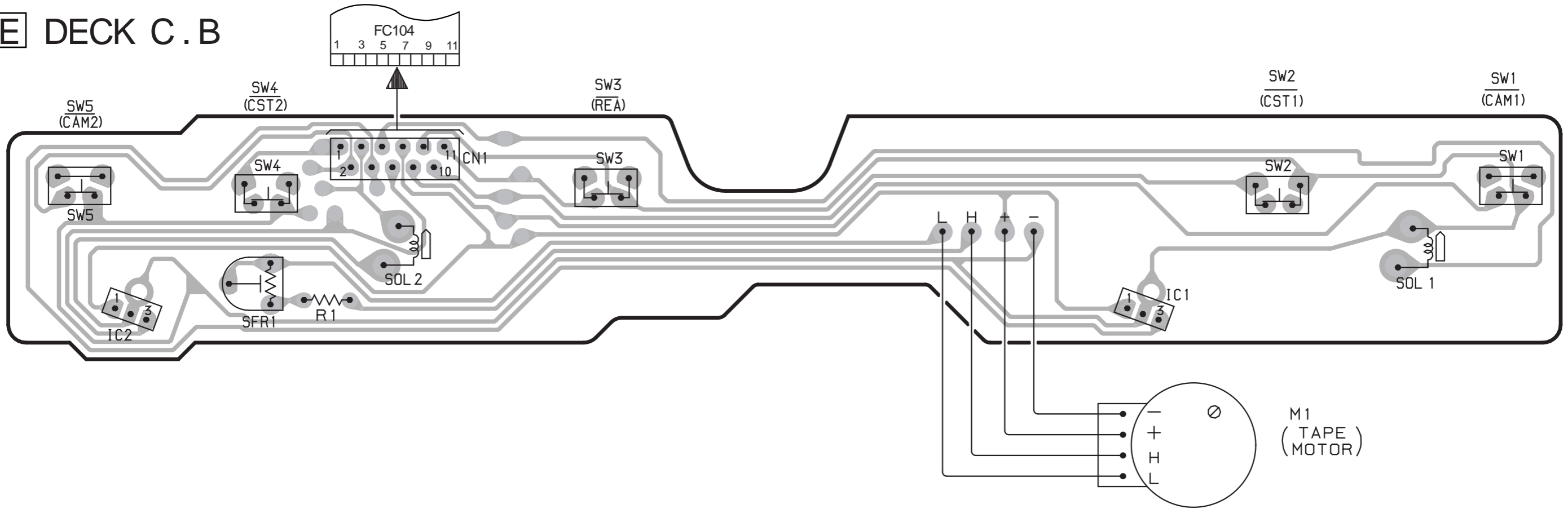


SCHEMATIC DIAGRAM - 8 (PT : LH)

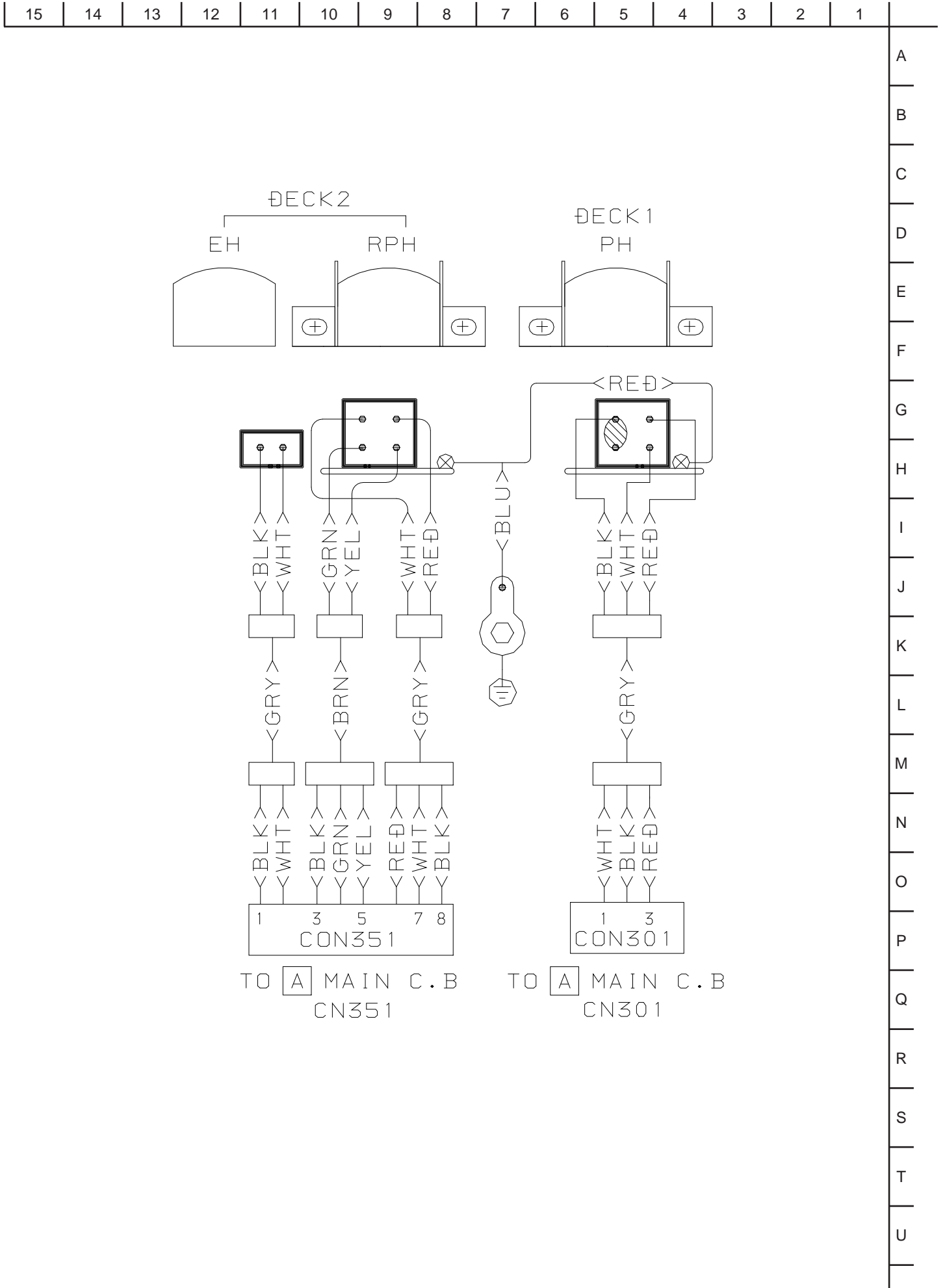


E DECK C.B

FROM **B** FRONT C. B CN104

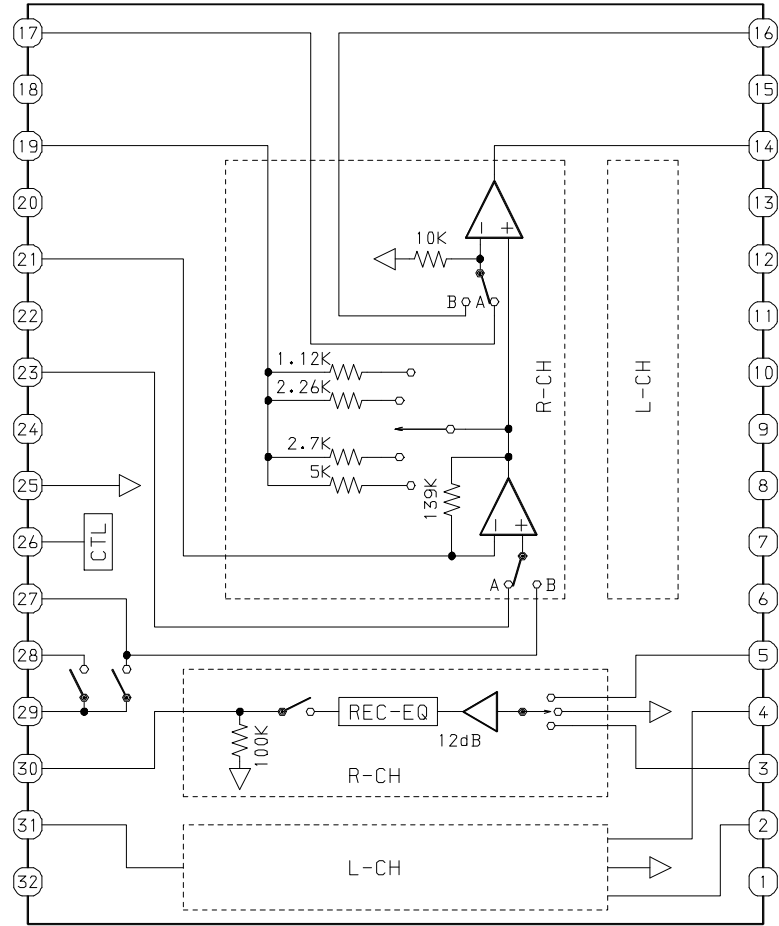


WIRING - 7 (HEAD)

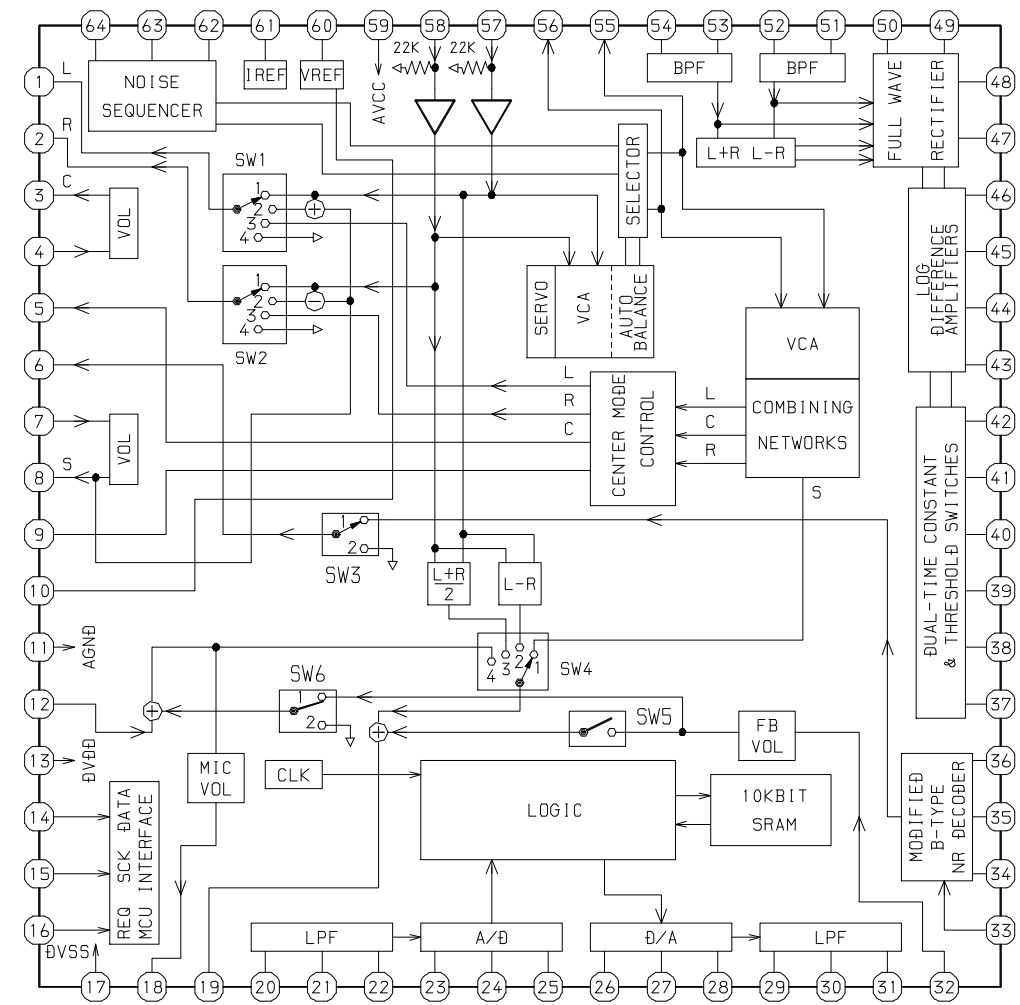


IC BLOCK DIAGRAM

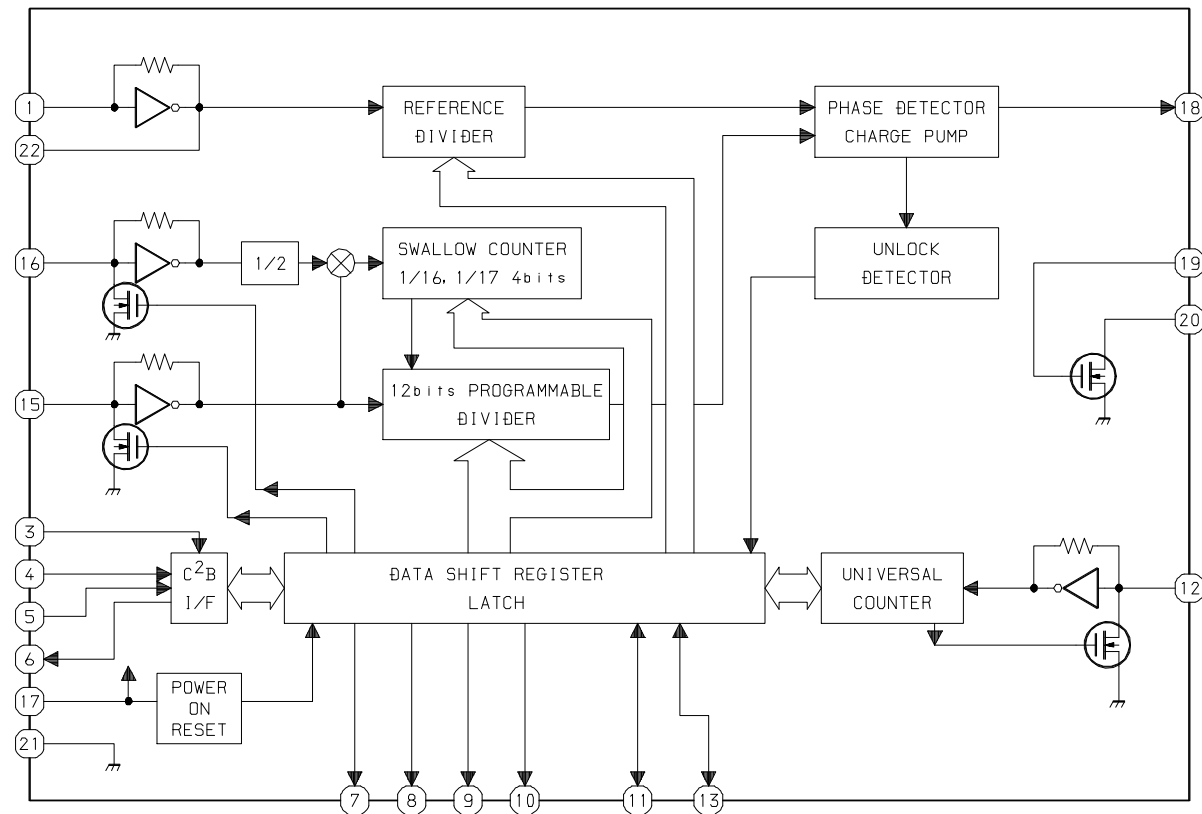
IC, BA7762AF5



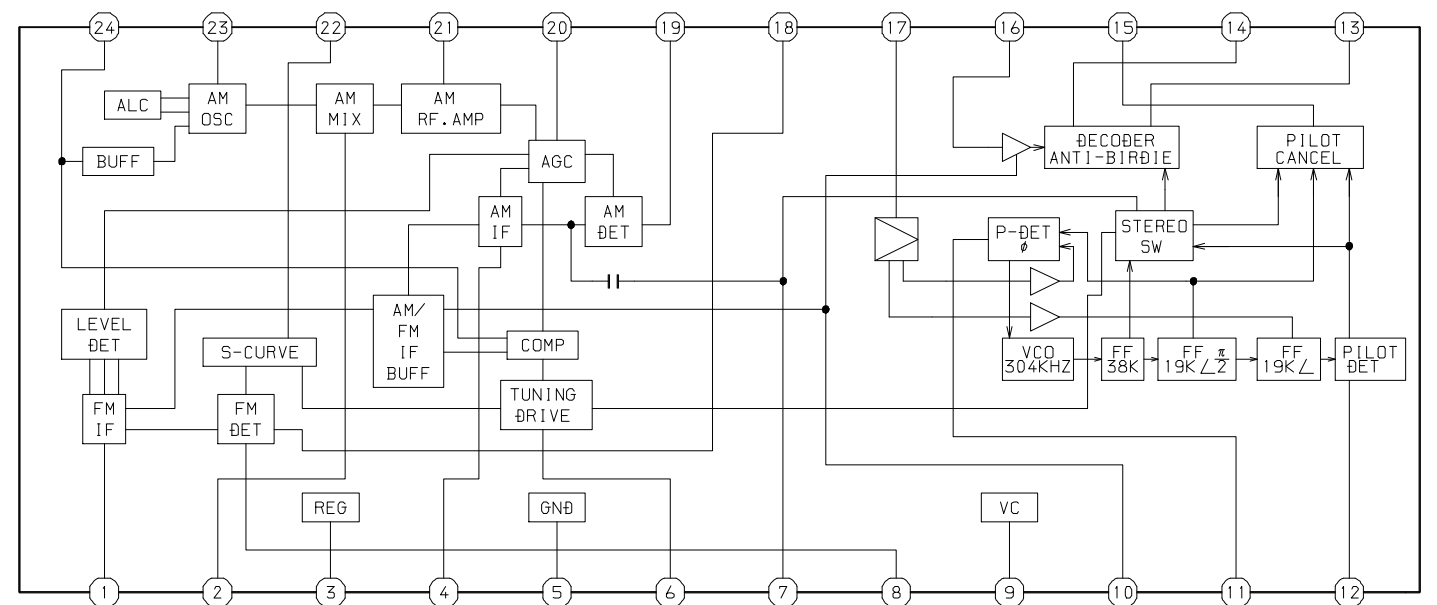
IC, M62463AFP



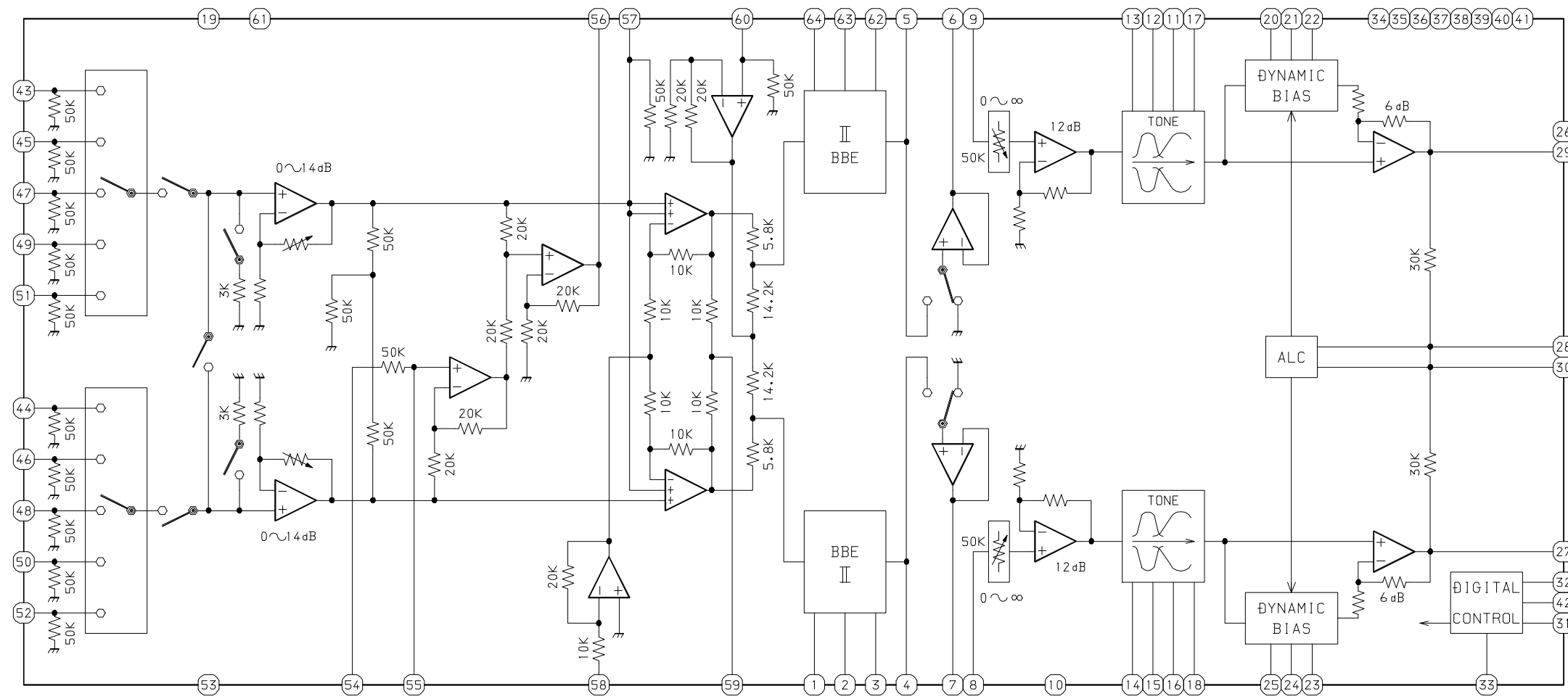
IC, LC72131D



IC, LA1843



IC, BD3876KS2

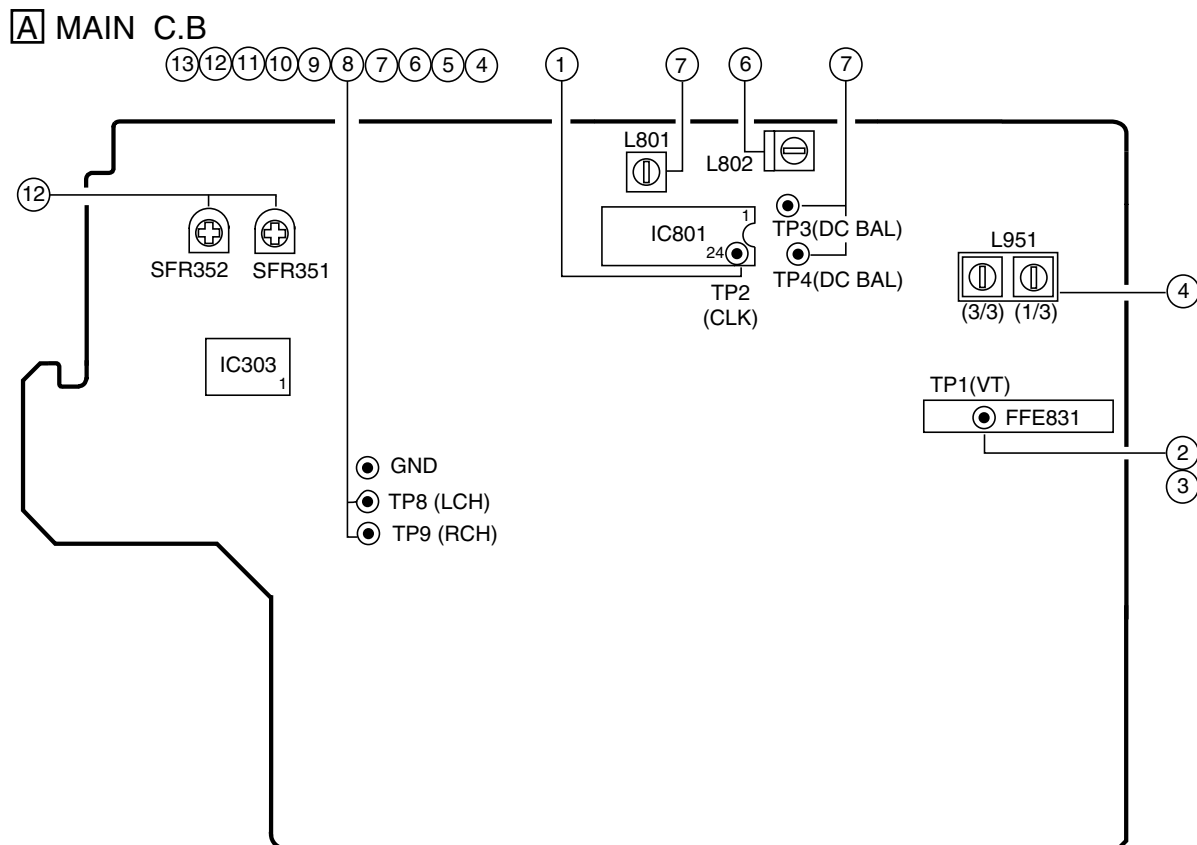


IC DESCRIPTION

IC, μ PD780228GF-060-3BA

Pin No.	Pin Name	I/O	Description
1	O-MOTOR	O	DECK MOTOR ON/OFF output.
2	O-SOL1	O	DECK1 solenoid output.
3	O-SOL2	O	DECK2 solenoid output.
4	P-LOGIC_LED	O	PRO LOGIC LED ON/OFF output.
5	NC	–	Not connected.
6	O-SET_LED	O	SET LED ON/OFF output.
7	O-CLEAR_LED	O	CLEAR LED ON/OFF output.
8	O-PRESET_LED	O	PRESET LED ON/OFF output.
9	O-DOWN_LED	O	DOWN LED ON/OFF output.
10	O-UP_LED	O	UP LED ON/OFF output.
11	NC	–	Not connected.
12	O-MUTE	O	MUTE output.
13	NC	–	Not connected.
14	O-BIAS	O	BIAS ON output.
15	NC	–	Not connected.
16	I-HP-MUTE	I	Head phones connect detect input.
17	IC	–	Internal connection (connected to GND).
18	VSSO	–	GND.
19	VDDO	–	Power supply.
20	O-POWER	O	System power supply ON/OFF output.
21	O-OPEN	O	CD tray open data output.
22	O-CLOSE	O	CD tray close data output.
23	O-DISH_F	O	CD turntable forward rotation output.
24	O-DISH_R	O	CD turntable reverse rotation output.
25	NC	–	Not connected.
26	O-STB	O	Strobe output for MAIN C.B.
27	I-REA	I	Deck 2 side-A recordable switch data input. "L"=REC.
28	I-RDS_CLK	I	Tuner RDS clock input (Not used).
29	I-SUBQ	I	CD SUBQ data input.
30	RESET	–	System reset.
31	O-DATA	O	Data output for MAIN.
32	I-WRQ/STEREO	I	CD WRQ input / Tuner stereo input.
33	I-DRF/IFC	I	CD DRF input / Tune IF count serial data input.
34	I-RMC	I	System remote control input.
35	I-DISHSENS	I	CD turntable photo sensor input.
36	O-CLK_SFT	O	Micon clock shift output.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	–	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	I-HOLD	I	Power failure detected input.
43	I-CDSW	I	CD mecha switch input.

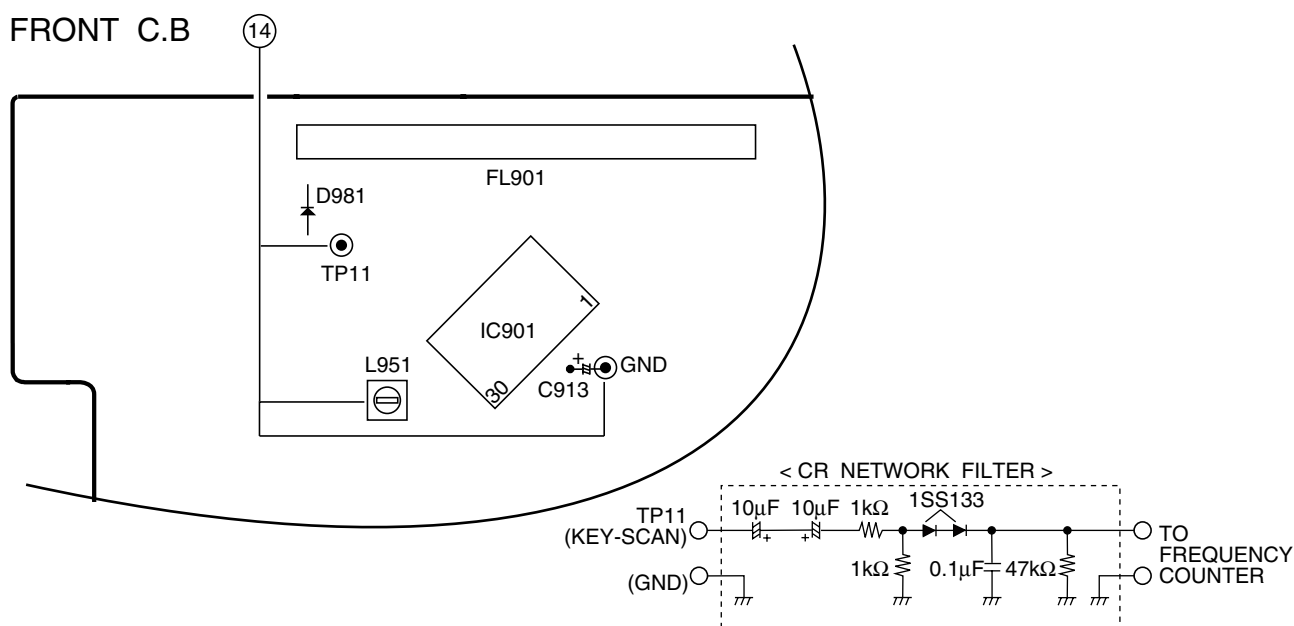
Pin No.	Pin Name	I/O	Description
44	I-SPEANA_L	I	A/D L-input for spectrum analyser level display.
45	I-SPEANA_R	I	A/D R-input for spectrum analyser level display.
46	I-KEY1	I	Key1 input.
47	I-KEY2	I	Key2 input.
48	I-KEY3	I	Key3 input.
49	I-TU_SIG	I	Tuner signal input.
50	AVSS	–	GND.
51	O-PLL_CLK	O	PLL clock enable output.
52	O-PLL_CE	O	Chip enable output for tuner PLL.
53	O-CD_LED	O	CD flash window LED ON/OFF output.
54	O-KSCAN	O	Key scan output.
55	O-CD_CLK	O	CD clock output.
56	O-CD_DATA	O	CD data output.
57	O-CD_CE	O	CD enable output.
58	NC	–	Not connected.
59	I-JOG_B	I	Dial jog rotary encoder input B.
60	I-JOG_A	I	Dial jog rotary encoder input A.
61	I-VOL_B	I	Volume rotary encoder input B.
62	I-VOL_A	I	Volume rotary encoder input A.
63	NC	–	Not connected.
64	I-TM_BASE	I	Base input for clock.
65	I-CAM2	I	DECK2 CAM switch data input.
66	I-CAM1	I	DECK1 CAM STOP switch data input.
67	P1/I-AUTO2	O/I	FL segment P1 output / DECK2 AUTO STOP switch data input.
68	P2/I-AUTO1	O/I	FL segment P2 output / DECK1 AUTO STOP switch data input.
69	P3/I-CST2	O/I	FL segment P3 output / DECK2 cassette detect switch data input.
70	P4/I-CST1	O/I	FL segment P4 output / DECK1 cassette detect switch data input.
71	P5/AM10K	O/I	FL segment P5 output / AM10 change diode input.
72 ~ 78	P6 ~ P12	O	FL segment P6 ~ P12 output.
79	VDD2	–	Power supply.
80	VLOAD	–	Power supply for FL display.
81	P13/C-JACK	O/I	FL segment P13 output / C-JACK data input <LH>.
82	P14/ECO-OFF	O/I	FL segment P14 output / ECO-OFF data input <LH>.
83 ~ 90	P15 ~ P22	O	FL segment P15 ~ P22 output.
91 ~100	G1 ~ G10	O	FL grid G1 ~ G10 output.



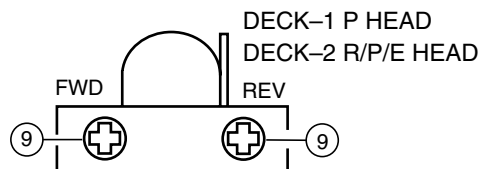
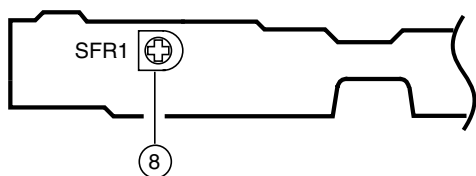
< TUNER SECTION >

1. Clock frequency Check
 Settings : • Test point : TP2 (CLK)
 Method : Set to AM 1710kHz and check that the test point is 2160kHz \pm 45Hz.
2. AM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to AM 1710kHz, 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).
3. FM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).
4. AM Tracking Adjustment
 Settings : • Test point : TP8(Lch), TP9(Rch)
 • Adjustment location :
 L951(1/3) 1000kHz
 Method : Set to MW 1000kHz and adjust L951(1/3) to MAX.
5. FM Tracking Check
 Settings : • Test point : TP8(Lch), TP9(Rch)
 Method : Set to FM 98.0MHz and check that the test point is less than 9dB μ V.
6. AM IF Adjustment
 Settings : • Test point : TP8(Lch), TP9(Rch)
 • Adjustment location :
 L802 450kHz
7. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4 (DC Balance)
 TP8(Lch), TP9(Rch) (Distortion)
 • Adjustment location : L801
 • Input level : 60dB μ V
 Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V \pm 0.3V.
 Next, check that the distortion is less than 1.3%.

B FRONT C.B



E DECK C.B



< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)

Settings : • Test tape : TTA-100

- Test point : TP8(Lch), TP9(Rch)
- Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$ (FWD) and $\text{FWD SPEED} \pm 45\text{Hz}$ (REV).

9. Head Azimuth Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-330

- Test point : TP8(Lch), TP9(Rch)
- Adjustment location : Azimuth adjustment screw

Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

10. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-330

- Test point : TP8(Lch), TP9(Rch)

Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

11. PB Sensitivity Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-200

- Test point : TP8(Lch), TP9(Rch)

Method : Play back the test tape and check that the output level of the test point is $110\text{mV} \pm 3\text{dB}$.

12. REC/PB Frequency Response Adjustment (DECK 2)

Settings : • Test tape : TTA-602

- Test point : TP8(Lch), TP9(Rch)
- Input signal : 1kHz / 8kHz (LINE IN)
- Adjustment location : SFR351 (Lch), SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (-26dBV). Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

13. REC/PB Sensitivity Check (DECK 2)

Settings : • Test tape : TTA-602

- Test point : TP8(Lch), TP9(Rch)
- Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-6dBV). Record and play back the 1kHz signals and check that the output is $-2\text{dB} \pm 3.5\text{dB}$.

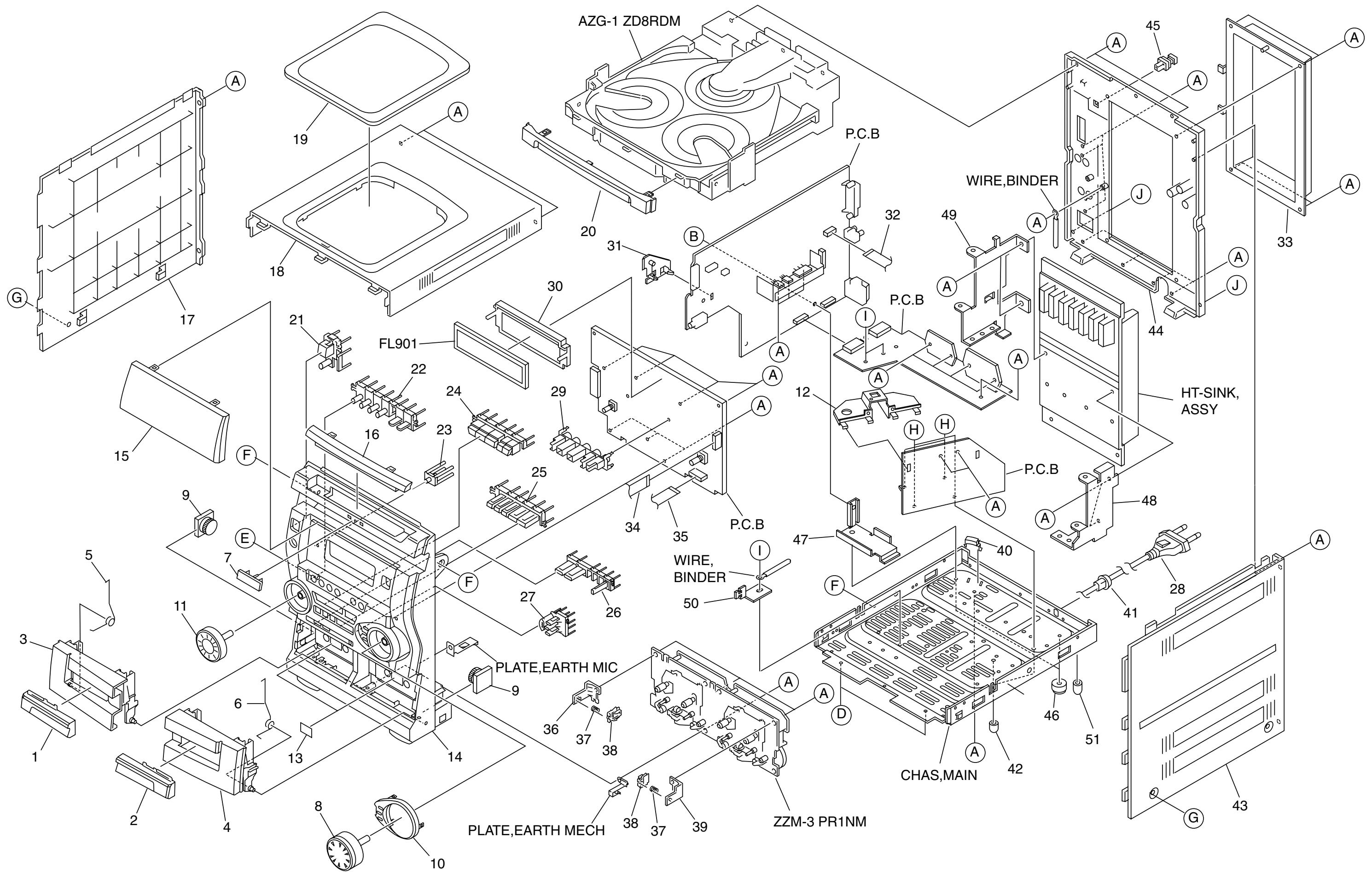
< FRONT SECTION >

14. μ -con OSC Adjustment

Settings : • Test point : TP11, (KEY-SCAN), GND

- Adjustment location : L951

Method : Connect a frequency counter across TP11 and GND via a CR network filter. Then adjust L951 so that the test point becomes $184.94\text{Hz} \pm 0.18\text{Hz}$.



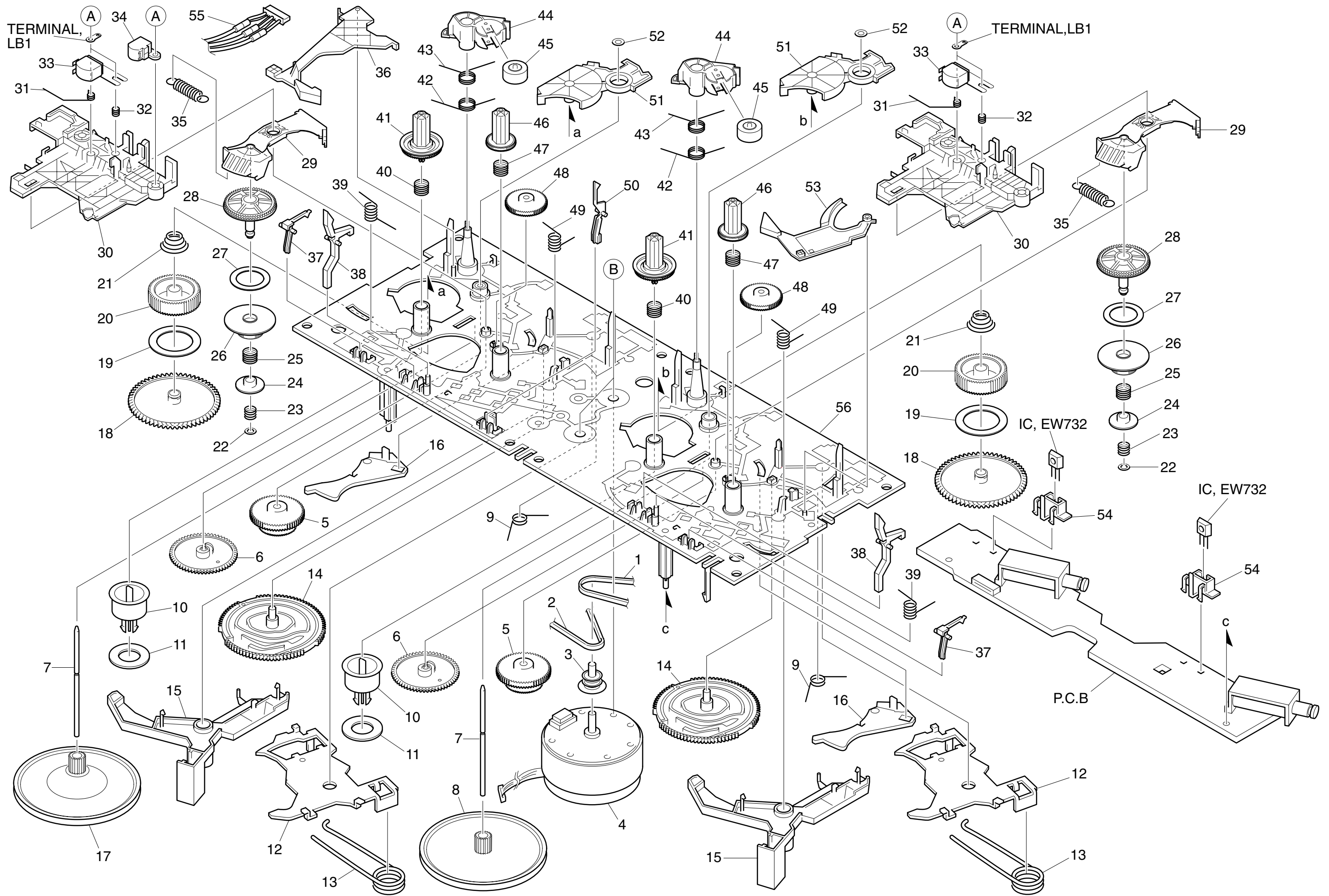
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF9-006-010		WINDOW, CASS 1	33	8A-NFW-031-110		COVER, REAR STEEL UM<U>
2	8A-NF9-007-010		WINDOW, CASS 2	34	88-913-301-110		FF-CABLE, 13P-1.25
3	8A-NF9-003-010		BOX, CASS 1	35	88-911-101-110		FF-CABLE, 11P 1.25
4	8A-NF9-004-010		BOX, CASS 2	36	87-NF4-216-010		HLLDR, LOCK 1
5	8A-NF8-207-010		SPR-T, EJECT 1	37	86-NF9-224-010		SPR-C, LOCK
6	8A-NF8-208-010		SPR-T, EJECT 2	38	82-NF5-229-010		PLATE, LOCK
7	87-CE3-023-010		BADGE, AIWA 30N SILV	39	87-NF4-217-110		HLLDR, LOCK 2
8	8A-NF9-018-010		KNOB, RTRY JOG	40	87-NF4-221-010		HLLDR, CABLE
9	8A-NF8-209-010		OIL-DMPR, 120	41	87-085-185-010		BUSHING, AC CORD (E)<LH>
10	8A-NF9-017-010		PANEL, JOG	41	87-085-189-010		BUSHING, CORD (U)<U>
11	8A-NF9-016-010		KNOB, RTRY VOL	42	8Z-NB8-240-010		COVER, PL
12	8A-NF6-217-010		HLLDR, PWB PT	43	8A-NF7-112-010		PANEL, RIGHT V-2
13	81-532-080-010		LABEL, CASS. COMPT	44	8A-NFW-007-010		PANEL, REAR LHSM<LH>
14	8A-NFW-001-010		CABI, FR U	44	8A-NFW-006-010		PANEL, REAR USM<U>
15	8A-NFW-017-010		WINDOW, DISP H<LH>	45	84-ZG1-245-210		CAP, OPTICAL
15	8A-NFW-002-010		WINDOW, DISP U<U>	46	87-085-221-010		FOOT, H13.5
16	8A-NF9-039-010		WINDOW, CD	47	8A-NF7-209-010		HLLDR, PWB-M BTM
17	8A-NF8-007-010		PANEL, LEFT V-2	48	8A-NF7-208-010		HLLDR, HT R
18	8A-NF8-005-010		PANEL, TOP	49	8A-NF7-207-010		HLLDR, HT L
19	8A-NF8-006-010		WINDOW, TOP	50	8A-NFW-250-110		HLLDR, PLATE
20	8A-NF9-014-010		PANEL, TRAY	51	8Z-NB8-254-010		COVER, PL M3
21	8A-NF9-008-010		KEY, POWER	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
22	8A-NFW-003-010		KEY, PRO	B	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
23	8A-NF9-022-010		REFLECTOR, ECO	C	87-067-581-010		TAPPING SCREW, BVT2+3-15
24	8A-NF9-010-110		KEY, ASSY OPE 1 WAY	D	87-067-689-010		TAPPING SCREW, BVT+3-8
25	8A-NF9-020-010		KEY, CD	E	87-723-096-410		QT2+3-10W/O SLOT BL
26	8A-NF9-019-010		KEY, SYNC	F	87-721-097-410		QT2+3-12 GLD
27	8A-NF9-026-110		KEY, ENTER	G	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
28	87-A80-157-010		AC CORD ASSY, E BLK CC<LH>	H	87-078-191-010		S-SCREW, IT+4-10
28	87-A80-110-010		AC CORD ASSY, U SPT-2W<U>	I	87-067-584-010		TAPPING SCREW, BVT2+3-6
29	8A-NF9-201-010		GUIDE, OPE 1 WAY	J	8A-NF7-251-010		W, 3.2-8-0.45
30	82-NF7-210-110		GUIDE, FL (*)				
31	8A-NF8-206-010		HLLDR, PWB M				
32	88-906-251-110		FF-CABLE, 6P 1.25				
33	8A-NHU-053-010		COVER, REAR H<LH>				

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



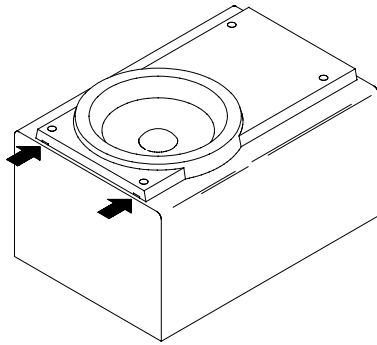
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT, MAIN M3	31	8Z-ZM3-233-010		SPR-T, BRG M3
2	8Z-ZM3-235-010		BELT, MAIN L	32	84-ZM2-227-310		SPR-C, AZIMUTH
3	8Z-ZM1-235-010		PULLEY, MOT	33	87-A90-403-110		HEAD, RPH MS15R
4	87-045-347-010		MOT, SHU2L 70	34	87-A90-404-010		HEAD, EH LE15B
5	8Z-ZM1-232-010		GEAR, IDL FF/REW	35	8Z-ZM3-239-010		SPR-E, FR
6	8Z-ZM3-244-010		GEAR, CAM TD20	36	8Z-ZM3-211-010		LEVER, EJECT R
7	8Z-ZM3-242-010		SHAFT, CAP M3	37	8Z-ZM3-225-010		LEVER, STOP
8	8Z-ZM3-228-010		FLY-WHL, M3	38	8Z-ZM3-221-010		LEVER, CAS
9	8Z-ZM3-231-010		SPR-T, TRIG	39	8Z-ZM3-234-010		SPR-T, LVR CAS
10	8Z-ZM3-213-010		CLR, MG	40	8Z-ZM3-223-010		SPR-C, REEL R M3
11	82-ZM3-616-010		RING MAGNET 4	41	8Z-ZM1-225-110		GEAR, REEL R
12	8Z-ZM3-243-010		LEVER ASSY, HD UP	42	8Z-ZM3-240-010		SPR-T, T-UP M3
13	8Z-ZM3-238-010		SPR-T, HD UP	43	8Z-ZM3-237-010		SPR-T, PINCH M3
14	8Z-ZM3-219-010		GEAR, CAM M3	44	8Z-ZM3-215-010		LEVER, PINCH M3
15	8Z-ZM3-206-010		LEVER, TRIG	45	8Z-ZM1-261-110		ROLLER ASSY, PINCH
16	8Z-ZM3-209-010		LEVER, CAM FR	46	8Z-ZM1-226-010		GEAR, REEL L
17	8Z-ZM2-211-010		FLY-WHL, ZZM-2	47	8Z-ZM3-222-010		SPR-C, REEL L M3
18	8Z-ZM1-228-010		GEAR, SLIP T-UP B	48	8Z-ZM3-251-010		GEAR, IDL REW M3
19	8Z-ZM1-265-010		FELT, T-UP	49	8Z-ZM3-236-010		SPR-T, PLAY M3
20	8Z-ZM1-227-010		GEAR, SLIP T-UP A	50	82-ZM1-240-110		LVR, REC (*)
21	8Z-ZM1-251-110		SPR-C, T-UP SLIP	51	8Z-ZM3-216-010		LEVER, T-UP M3
22	8Z-ZM1-275-010		W-L, 1, 47-4-0.25	52	87-B10-301-010		W-L, 1.63-3.2-05 SLIT
23	8Z-ZM1-257-010		SPR-C, F/R	53	8Z-ZM3-212-010		LEVER, EJECT L
24	8Z-ZM1-236-010		CLR, SLIP FF/REW	54	8Z-ZM3-214-010		HLDR, IC
25	8Z-ZM3-226-010		SPR-C, FR M3	55	86-ZM3-605-110		CONN ASSY, 8P -RPB
26	8Z-ZM3-250-010		GEAR, SLIP F/R A M3	56	8Z-ZM3-203-010		CHAS ASSY, M3
27	8Z-ZM1-269-010		FELT, FF/REW 2	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
28	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2	B	8Z-ZM2-220-110		V+2.6 ZZM-2
29	8Z-ZM3-220-010		LEVER, FR M3				
30	8Z-ZM3-205-010		LEVER, PLAY M3				

SPEAKER DISASSEMBLY INSTRUCTIONS

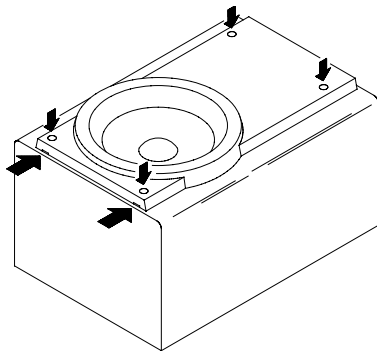
Type.1

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.



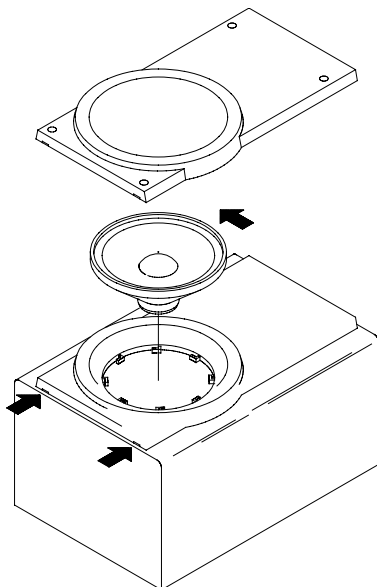
Type.2

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.

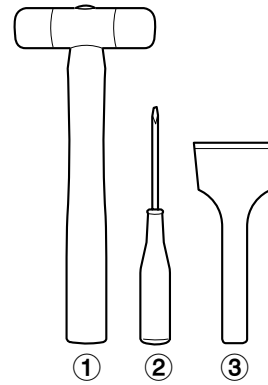


Type.3

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.

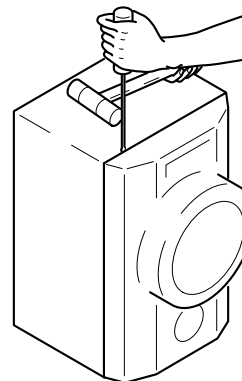


Fig-1

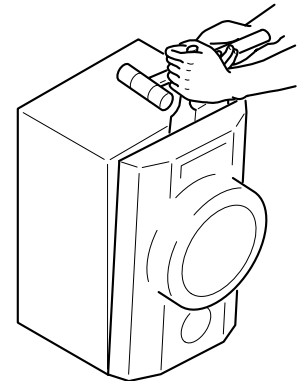


Fig-2

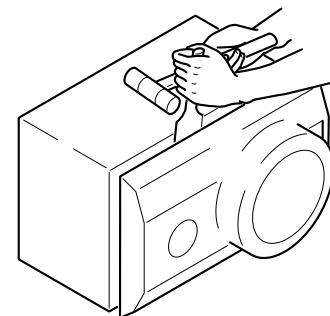


Fig-3

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 <NSX-DP25>
SX-NSZ52 (YLSL)**

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSJ-001-010		PANEL, FR R
2	8A-NSJ-002-010		PANEL, FR L
3	8A-NSJ-003-010		GRILLE, FRAME ASSY
4	8A-NSJ-008-010		PROTECTOR, TWA
5	87-NS7-611-010		CORD, SPKR
6	8A-NSJ-602-010		SPKR, W 130
7	88-NS5-605-010		SPKR, T 60
8	88-MS1-608-010		SPKR, CERAMIC

**SPEAKER PARTS LIST <NSX-HMT25>
SX-NAJ22 (YUSC, YUSL)**

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSK-001-010		PANEL, FR
2	8A-NSK-003-010		GRILLE, FRAME ASSY
3	8A-NSK-007-010		PROTECTOR, TWA
4	8A-NSK-602-010		SPKR, W 140<YUSL>
4	8A-NSK-608-010		SPKR, W 130<YUSC>
5	88-NS5-605-010		SPKR, T 60<YUSL>
5	8A-NSK-610-010		SPKR, TW 60<YUSC>
6	87-NSH-612-010		SPKR, CERAMIC ASSY
7	87-NS7-611-010		CORD, SPKR

SX-R277 (YSTC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-001-010		CABI, REAR
2	8Z-YS1-002-010		GRILLE, FRAME ASSY
3	81-VSA-009-010		CORD, BUSH
4	87-010-384-010		CAP, E 100-25 M SME
5	87-YS6-002-010		SPKR, CORD Y
6	8Z-YS1-601-010		SPKR, 100

SX-R275 (YUSTNC, YUSTNL, YUSTNP)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-001-010		CABI, REAR
2	87-YS1-004-010		GRILLE, FRAME ASSY
3	81-VSA-009-010		CORD, BUSH
4	87-010-384-010		CAP, E 100-25 M SME
5	87-YS6-002-010		SPKR, CORD Y
6	87-YS6-601-010		SPKR, 100

SX-C607 (YSTC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS7-012-010		PANEL, FR S
2	87-YS7-013-010		PANEL, REAR S
3	87-YS3-003-010		GRILLE, FRAME ASSY
4	81-VSA-009-010		CORD, BUSH
5	83-NSM-010-010		SPKR, CORD
6	87-YS7-602-010		SPKR, 100

SX-C605 (YUSTNC, YUSTNL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-010		PANEL, FR ST
2	87-YS3-002-010		PANEL, REAR ST
3	87-YS3-003-010		GRILLE, FRAME ASSY
4	81-VSA-009-010		CORD, BUSH
5	83-NSM-010-010		SPKR, CORD
6	87-YS7-602-010		SPKR, 100<YUSTNC>
6	87-YS7-604-010		SPKR, 100<YUSTNL>

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NFW-902-010		IB, LH (ESF) M<LH>
1	8A-NFW-903-010		IB, U (ESF) M<U>
2	87-006-225-010		AM, LOOP ANT NC2
3	87-043-115-010		ANT, FEEDER FM
4	8Z-NFW-702-010		RC UNIT, ZAS10
5	87-A91-017-010		PLUG CONVERSION JT-0476<LH>

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