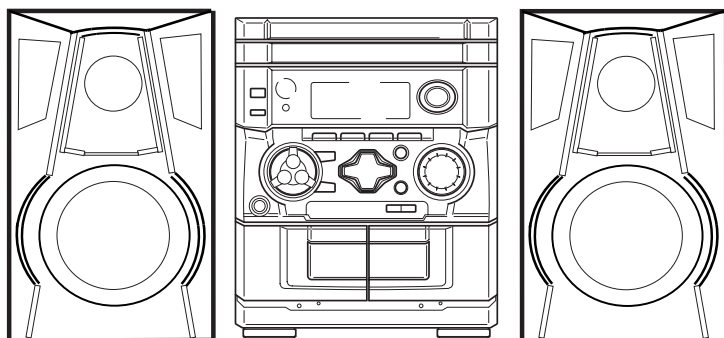


NSX-AJ200 U

NSX-AJ205 U

NSX-SZ200 EZ,LH

NSX-SZ205 EZ



SERVICE MANUAL

COMPACT DISC STEREO SYSTEM

BASIC CD MECHANISM : BZG-2 ZD4NC
BASIC TAPE MECHANISM: ZZM-3 YPR2NC

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AJ200 (TYPE: U)	CX-NAJ200	SX-NAJ202	RC-AAS11(VS)
NSX-AJ205 (TYPE: U)	CX-NAJ205	SX-NAJ205 SX-R145	
NSX-SZ200 (TYPE: EZ)	CX-NSZ200	SX-NSZ202	
NSX-SZ205 (TYPE: EZ)	CX-NSZ205	SX-NSZ205	
NSX-SZ200 (TYPE: LH)	CX-NSZ200	SX-NSZ205	

- This Service Manual is the "Revision Publishing" and replace "Simple Manual" NSX-AJ200/AJ205/SZ200/SZ205<U,EZ,LH>, (S/M Code No. 09-011-440-9T1).
- If requiring information about the CD mechanism, see Service Manual of BZG-2 (S/M Code No. 09-00C-353-2N2).

SPECIFICATIONS

TUNER

FM tuning range: 87.5 MHz to 108 MHz
FM usable Sensitivity(IHF): 13.2 dBf<U,LH>, 16.8 dBf<EZ>
FM antenna terminals: 75 ohms (unbalanced)
AM tuning range<U,LH>: 530 kHz to 1710 kHz (10 kHz step)
 531 kHz to 1602 kHz (9 kHz step)

AM usable sensitivity<U,LH>: 350 μ V/m
AM antenna<U,LH>: Loop antenna
MW tuning range<EZ>: 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
MW usable sensitivity<EZ>: 350 μ V/m
LW tuning range<EZ>: 144 kHz to 290 kHz
LW usable sensitivity: 1400 μ V/m
MW/LW antenna: Loop antenna

AMPLIFIER

CX-NAJ200

Power output: 20 W + 20 W (50 Hz - 20 kHz, THD less than 1%, 6 ohms)
 25 W + 25 W (1 kHz, THD less than 10%, 6 ohms)

Total harmonic distortion: 0.1% (10 W, 1 kHz, 6 ohms, DIN AUDIO)
CX-NAJ205

Power output: 40 W + 40 W (50 Hz - 20 kHz, THD less than 1%, 6 ohms)
 50 W + 50 W (1 kHz, THD less than 10%, 6 ohms)

Total harmonic distortion: 0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)
CX-NSZ200<EZ> / CX-NSZ205

Power output: 12 W + 12 W (6 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
 Reference: 15 W + 15 W (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
 DIN MUSIC POWER: 39 W + 39 W

Total harmonic distortion: 0.1% (6 W, 1 kHz, 6 ohms, DIN AUDIO)
CX-NSZ200<LH>

Power output: Rated: 40 W + 40 W (6 ohms, T.H.D. 1%, 1 kHz)
 Reference: 50 W + 50 W (6 ohms, T.H.D. 10%, 1 kHz)

Total harmonic distortion: 0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)
Input: VIDEO/AUX: 500 mV

Output: SPEAKERS: 6 ohms or more
 SURROUND SPEAKERS (only for CX-NAJ205): 8 ohms to 16 ohms
 PHONES: 32 ohms or more

CASSETTE DECK

Track format: 4 tracks, 2 channels stereo
Frequency response: 50 Hz - 8 kHz
Recording system: AC bias
Heads: DECK 1: playback x 1
 DECK 2: recording/playback x 1, erase x 1

CD PLAYER

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

FRONT SPEAKERS SX-NAJ202 (only for NSX-AJ200)

Speaker system: 2 way, bass reflex (magnetic shielded)
Speaker units: Woofer: 120 mm ($4\frac{3}{4}$ in.) cone
 Tweeter: 20 mm ($1\frac{3}{16}$ in.) cone
Impedance: 6 ohms
Dimensions (W x H x D): 220 x 324 x 198 mm
 ($8\frac{3}{4}$ x $12\frac{7}{8}$ x $7\frac{7}{8}$ in.)
Weight: 2.3 kg (5 lbs 1 oz)

FRONT SPEAKERS SX-NAJ205 (only for NSX-AJ205)

Speaker system: 3 way, bass reflex (magnetic shielded)
Speaker units: Woofer: 120 mm ($4\frac{3}{4}$ in.) cone
 Tweeter: 60 mm ($2\frac{3}{8}$ in.) cone
 Super tweeter: 20 mm ($1\frac{3}{16}$ in.) ceramic
Impedance: 6 ohms
Dimensions (W x H x D): 220 x 324 x 198 mm
 ($8\frac{3}{4}$ x $12\frac{7}{8}$ x $7\frac{7}{8}$ in.)
Weight: 2.5 kg (5 lbs 8 oz)

FRONT SPEAKERS SX-NSZ202 (only for NSX-SZ200<EZ>)

Speaker system: 2 way, bass reflex (magnetic shielded)
Speaker units: Woofer: 120 mm cone
 Tweeter: 20 mm ceramic cone
Impedance: 6 ohms
Dimensions (W x H x D): 220 x 324 x 198 mm
Weight: 2.3 kg (5 lbs 1 oz)

FRONT SPEAKERS SX-NSZ205 (for NSX-SZ200<LH>, NSX-SZ205)

Speaker system: 3 way, bass reflex (magnetic shielded)
Speaker units: Woofer: 120 mm cone
 Tweeter: 60 mm cone
 Super tweeter: 20 mm ceramic
Impedance: 6 ohms
Dimensions (W x H x D): 220 x 324 x 198 mm
Weight: 2.5 kg (5 lbs 8 oz)

SURROUND SPEAKERS SX-R145 (only for NSX-AJ205)

Speaker system: 1 way, bass reflex
Speaker units: Full range: 80 mm($3\frac{1}{4}$ in.) cone
Impedance: 8 ohms
Dimensions (W x H x D): 100 x 132 x 116 mm
 (4 x $5\frac{1}{4}$ x $4\frac{5}{8}$ in.)
Weight: 0.5 kg (1 lbs 2 oz)
Accessories: Wall mounting screws (2)

GENERAL

Power requirements: 120 V AC, 60 Hz<U>
 230 V AC, 50 Hz<EZ>
 120 V/220 - 230 V/240 V AC
 (Switchable), 50 Hz/60Hz<LH>
 60 W<200U>, 67W<205U>, 53 W<EZ>
 70 W<200LH>,
Power consumption:

Power consumption in standby mode: With ECO mode on: 0.6 W
 With ECO mode off: 15 W

Dimensions (W x H x D): 260 x 323 x 291 mm
 ($10\frac{1}{4}$ x $12\frac{3}{4}$ x $11\frac{1}{2}$ in.)

Weight: 5.9 kg (13 lbs)<U,LH>, 4.9 kg<EZ>

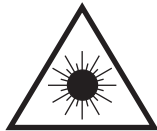
• Design and specifications are subject to change without notice.

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 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

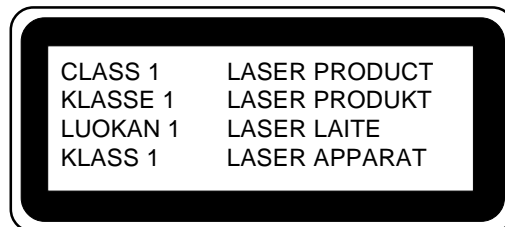
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

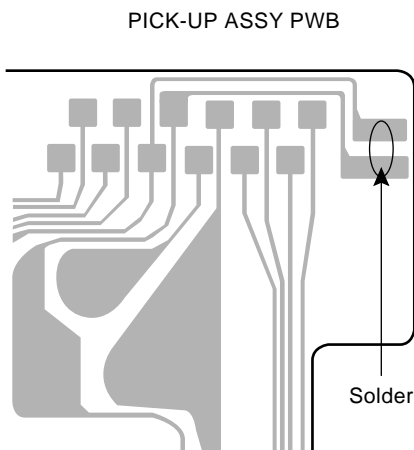


Precaution to replace Optical block

(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.

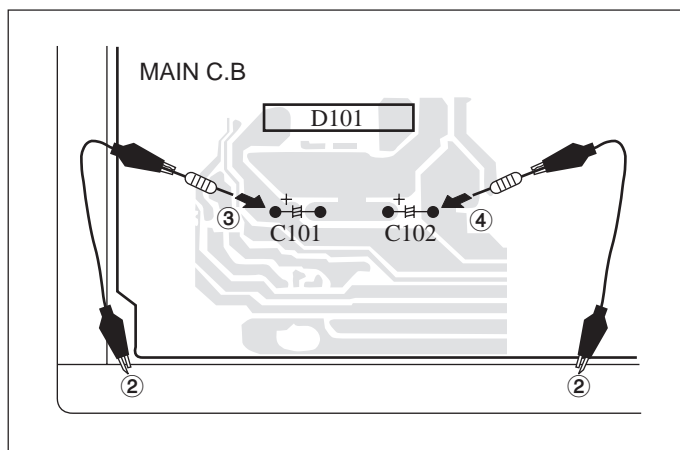


Fig-1

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.

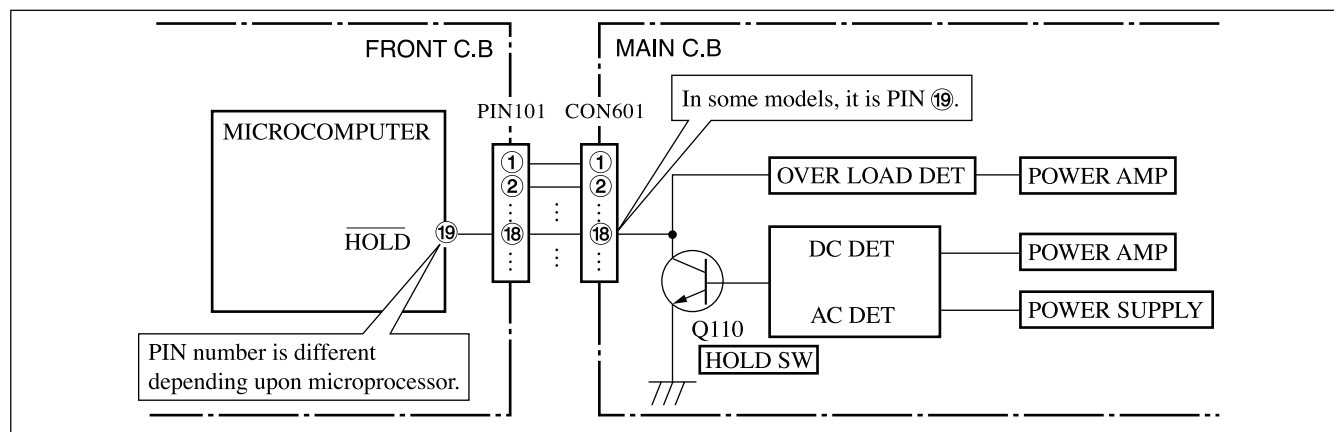


Fig-2-1

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.

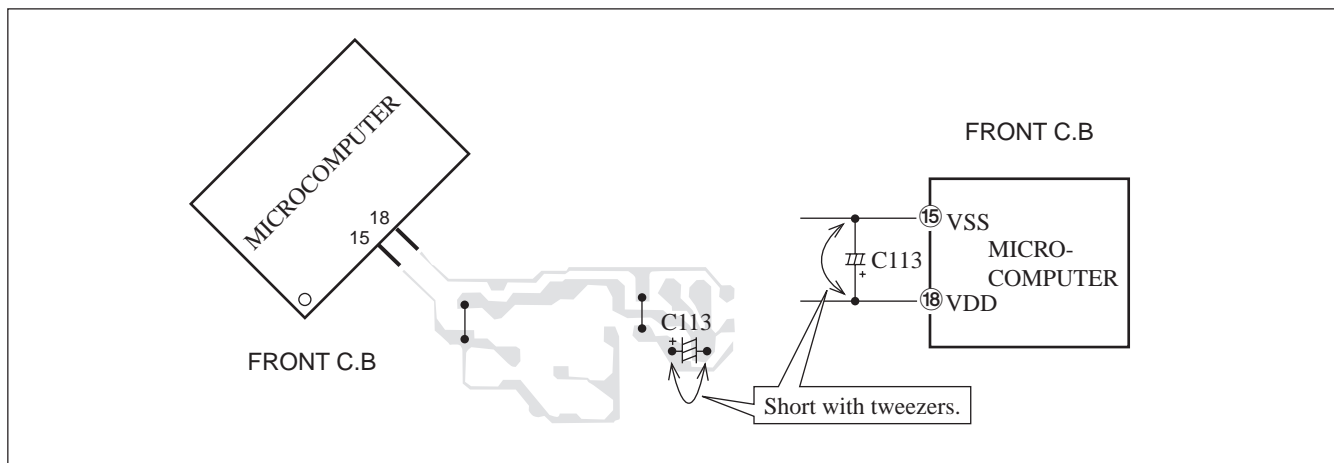


Fig-2-2

- 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				C20	87-A12-431-000		CAP,E 2200-50 M 85<200LH,205U>
	87-A21-269-010	IC,EW732		C21	87-A12-442-000		CAP,E 3300-25 M 85<EXCEPT 200U>
	87-A21-893-040	C-IC,NJM4558V-TE2		C21	87-A12-440-000		CAP,E 3300-35 M 85 IV LELON<200U>
	87-A21-419-040	C-IC,NJM14558MD-TE2		C22	87-A12-381-000		CAP,E 2200-25 M 85<EXCEPT 200U>
	8B-NFA-602-030	IC,UPD780226GF-022-3BA<EXCEPT 205EZ>		C22	87-A12-441-000		CAP,E 2200-35 M 85 IV LELON<200U>
	8B-NFA-603-030	C-IC,UPD780228GF-079-3BA<205EZ>		C25	87-010-385-080		CAP, ELECT 220-25V<200LH,205U>
	87-A21-218-110	IC,NJL64H380A		C25	87-010-407-080		CAP, E 33-50V<200EZ,205EZ,200U>
	87-A21-443-040	C-IC,M62495AFP		C26	87-010-247-080		CAP, ELECT 100-50V<200LH,205U>
	87-A21-695-010	IC,LA1845L		C26	87-010-407-080		CAP, E 33-50V<200EZ,205EZ,200U>
	87-A20-440-040	C-IC,BU1920FS<205EZ>		C30	87-010-393-080		CAP, E 100-35V<200EZ,205EZ,200U>
	87-A21-928-010	IC,LC72131D-N		C30	87-010-247-080		CAP, ELECT 100-50V<200LH,205U>
TRANSISTOR				C31	87-010-263-080		CAP, ELECT 100-10V
	87-A30-494-080	TR,2SA1980G		C35	87-010-406-080		CAP, ELECT 22-50
	89-213-702-010	TR,2SB1370 (1.8W)		C36	87-010-381-080		CAP, ELECT 330-16V
	87-026-610-080	TR,KTC3198GR		C38	87-010-190-080		S CHIP F 0.01
	87-A30-076-080	C-TR,2SC3052F		C50	87-010-393-080		CAP, E 100-35V<200EZ,205EZ,200U>
	87-A30-075-080	C-TR,2SA1235F		C60	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-484-080	C-TR,KRA102S		C61	87-010-380-080		CAP, E 47-16V<200EZ,205EZ,200U>
	87-A30-190-080	TR,CC5551		C61	87-010-260-080		CAP, ELECT 47-25V<200LH,205U>
	87-A30-255-010	TR,2SB1342<200EZ,205EZ,200U>		C98	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A30-306-010	TR,2SB1677<200LH>		C123	87-012-269-080		C-CAP,U 390P-50 B<200EZ,205EZ>
	87-A30-528-010	TR,2SB1686<205U>		C124	87-012-269-080		C-CAP,U 390P-50 B<200EZ,205EZ>
	87-A30-256-010	TR,2SD1933<200EZ,205EZ,200U>		C125	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-307-010	TR,2SD2619<200LH>		C126	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-529-010	TR,2SD2642<205U>		C127	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-107-070	C-TR,CMBT5401		C128	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-106-040	C-TR,CMBT5551		C129	87-010-191-080		C-CAP,S 0.015-50 F<200EZ,205EZ>
	87-A30-162-010	FET,2SK2937<200LH,205U>		C130	87-010-191-080		C-CAP,S 0.015-50 F<200EZ,205EZ>
	87-A30-091-080	FET,2SJ460		C131	87-012-286-080		CAP, U 0.01-25
	87-A30-090-080	FET,2SK2541		C132	87-012-286-080		CAP, U 0.01-25
	87-A30-062-080	C-TR,KRC104S		C133	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A30-492-080	TR,2SC5343G		C161	87-010-408-080		CAP, ELECT 47-50V<205U>
	87-A30-468-080	C-TR,KRC102S-RTK		C162	87-010-408-080		CAP, ELECT 47-50V<205U>
	87-A30-582-080	TR,CDA1585BC		C181	87-010-235-080		CAP,E 470-16 SME<200EZ,205EZ>
	87-A30-495-080	TR,2SA1981Y		C181	87-010-387-080		CAP,E 470-25 SME<200LH,200U,205U>
	89-327-143-080	TR,2SC2714 (0.1W)		C192	87-010-759-080		C-CAP,U, 0.1-25F<200EZ,205EZ>
	87-A30-489-080	C-TR,KRA107S		C401	87-A12-319-080		C-CAP,U 0.1-25 K B
	89-503-602-080	C-FET,2SK360E		C402	87-A12-319-080		C-CAP,U 0.1-25 K B
	87-A30-086-040	C-TR,CSD1306E<200EZ,205EZ>		C403	87-012-193-080		C-CAP,U 82P-50 CH
	87-A30-234-080	TR,CSC4115BC		C404	87-012-193-080		C-CAP,U 82P-50 CH
DIODE				C405	87-012-286-080		CAP, U 0.01-25
	87-A40-535-080	DIODE,1N5393-GOODARK<200EZ,205EZ>		C406	87-012-286-080		CAP, U 0.01-25
	87-A40-393-090	DIODE,1N5402GW (F20) <200LH,205U>		C407	87-012-286-080		CAP, U 0.01-25
	87-A40-455-080	DIODE,RL203 GW<200U>		C408	87-012-286-080		CAP, U 0.01-25
	87-A40-553-080	DIODE,1N4003 LES		C409	87-012-278-080		C-CAP,U 2200P-50 B
	87-A40-778-080	ZENER,UZ30BSB		C410	87-012-278-080		C-CAP,U 2200P-50 B
	87-A40-291-080	DIODE,1N4148 (CPT)		C411	87-010-405-080		CAP, ELECT 10-50V
	87-A40-764-080	ZENER,UZ10BSC		C412	87-010-405-080		CAP, ELECT 10-50V
	87-A40-269-080	C-DIODE,MC2836		C421	87-012-274-080		C-CAP,U 1000P-50 K B
	87-A40-270-080	C-DIODE,MC2838		C422	87-012-274-080		C-CAP,U 1000P-50 K B
	87-A40-749-080	ZENER,UZ5.6BSB<200LH,205U>		C423	87-012-274-080		C-CAP,U 1000P-50 K B
	87-A40-748-080	ZENER,UZ5.6BSA		C424	87-012-274-080		C-CAP,U 1000P-50 K B
	87-A40-739-080	ZENER,UZ2.7BSA		C425	87-010-263-080		CAP, ELECT 100-10V
	87-017-149-080	ZENER,HZS6A2L		C426	87-010-263-080		CAP, ELECT 100-10V
MAIN C.B				C427	87-012-188-080		C-CAP,U 47P-50 CH
C3	87-010-759-080	C-CAP,U, 0.1-25F<200LH,205U>		C428	87-012-188-080		C-CAP,U 47P-50 CH
C4	87-010-759-080	C-CAP,U, 0.1-25F<200LH,205U>		C429	87-010-598-080		C-CAP,S 0.068-16VRK
C5	87-010-759-080	C-CAP,U, 0.1-25F<200LH,205U>		C430	87-010-598-080		C-CAP,S 0.068-16VRK
C6	87-010-759-080	C-CAP,U, 0.1-25F<200LH,205U>		C431	87-012-284-080		CAP, U 6800P-50
C9	87-010-759-080	C-CAP,U, 0.1-25F		C432	87-012-284-080		CAP, U 6800P-50
C10	87-010-759-080	C-CAP,U, 0.1-25F		C433	87-010-546-080		CAP, ELECT 0.33-50V
C11	87-010-759-080	C-CAP,U, 0.1-25F		C434	87-010-546-080		CAP, ELECT 0.33-50V
C12	87-010-759-080	C-CAP,U, 0.1-25F		C435	87-010-263-080		CAP, ELECT 100-10V
C19	87-A12-431-000	CAP,E 2200-50 M 85<200LH,205U>		C440	87-010-759-080		C-CAP,U, 0.1-25F<200EZ,205EZ>
				C441	87-010-787-080		CAP, U 0.022-25
				C442	87-010-759-080		C-CAP,U 0.1-25 Z F
				C443	87-010-759-080		C-CAP,U, 0.1-25F
				C445	87-A10-039-080		C-CAP,U 470P-50 J CH
				C446	87-010-401-080		CAP, ELECT 1-50V
				C447	87-010-787-080		C-CAP,U 0.022-25<EXCEPT 200U,205U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C452	87-010-382-080		CAP, ELECT 22-25V	C312	87-012-195-080		C-CAP,U 100P-50CH
C453	87-012-279-080		C-CAP,U 2700P-50 B	C501	87-010-759-080		C-CAP,U, 0.1-25F
C454	87-012-279-080		C-CAP,U 2700P-50 B	C502	87-010-759-080		C-CAP,U, 0.1-25F
C455	87-012-279-080		C-CAP,U 2700P-50 B	C503	87-012-278-080		C-CAP,U 2200P-50 B
C456	87-012-286-080		CAP, U 0.01-25	C504	87-016-460-080		C-CAP,S 0.22-16 B
C457	87-A12-361-080		CAP,M 5600P-100 J CP	C505	87-010-248-040		CAP,E 220-10 SME
C458	87-012-274-080		CHIP CAP,U 1000P-50B<200EZ,205EZ>	C507	87-010-400-040		CAP,E 0.47-50
C459	87-A12-468-080		C-CAP,U 560P-50 J SL<200EZ,205EZ>	C508	87-012-172-080		CAPACITOR CHIP U 10P CH
C460	87-010-759-080		C-CAP,U, 0.1-25F	C509	87-A12-462-080		C-CAP,U 180P-50 J SL
C461	87-A12-466-080		C-CAP,U 390P-50 J SL	C510	87-012-270-080		CAP, U 470P-50
C462	87-A12-466-080		C-CAP,U 390P-50 J SL	C511	87-010-759-080		C-CAP,U, 0.1-25F
C470	87-012-270-080		C-CAP,U 470P-50 K B	C512	87-012-268-080		C-CAP,U 330P-50 B
C605	87-012-275-080		C-CAP,U 1200P-50 B	C513	87-010-829-080		CAP, U 0.047-16
C606	87-012-275-080		C-CAP,U 1200P-50 B	C514	87-012-286-080		CAP, U 0.01-25
C609	87-010-785-080		C-CAP,U 0.015-25BK	C515	87-012-274-080		CHIP CAP,U 1000P-50B
C610	87-010-785-080		C-CAP,U0.015-25BK	C516	87-010-759-080		C-CAP,U, 0.1-25F
C611	87-010-545-080		CAP, ELECT 0.22-50V	C517	87-012-272-080		C-CAP,U 680P-50 B
C612	87-010-545-080		CAP, ELECT 0.22-50V	C518	87-012-272-080		C-CAP,U 680P-50 B
C613	87-010-545-080		CAP, ELECT 0.22-50V	C519	87-010-759-080		C-CAP,U, 0.1-25F
C614	87-010-545-080		CAP, ELECT 0.22-50V	C520	87-010-246-040		CAP,E 47-35 SME
C615	87-012-172-080		CAPACITOR CHIP U 10P CH	C521	87-A12-317-080		C-CAP,U 0.1-50 Z F
C616	87-010-248-080		CAP, ELECT 220-10V	C522	87-010-263-040		CAP,E 100-10
C617	87-010-248-080		CAP, ELECT 220-10V	C523	87-010-404-040		CAP,E 4.7-50 SME
C618	87-010-405-080		CAP, ELECT 10-50V	C524	87-010-404-040		CAP,E 4.7-50 SME
C625	87-010-598-080		C-CAP,S 0.068-16VRK	C525	87-010-260-040		CAP,E 47-25 SME
C626	87-010-598-080		C-CAP,S 0.068-16VRK	C527	87-010-759-080		C-CAP,U, 0.1-25F
C630	87-016-669-080		C-CAP,S 0.1-25 K B	C528	87-010-759-080		C-CAP,U, 0.1-25F
C677	87-012-286-080		CAP, U 0.01-25	CN502	87-099-196-010		CONN,8P 6216 V
CN102	87-A61-001-010		CONN,17P V BLK TAC-L17X-A3	CN504	87-A60-136-010		CONN,11P V FE
CN401	87-A60-620-010		CONN,3P V 2MM JMT	FFC502	88-908-201-110		FF-CABLE,8P 1.25
CN451	87-A60-625-010		CONN,8P V 2MM JMT	FFC504	88-911-131-110		FF-CABLE,11P 1.25 130MM
CN602	87-099-194-010		CONN,6P 6216V	FL501	8B-NFA-601-010		FL,HNA-10SS19T
CNA401	86-ZM3-604-210		CONN ASSY,3P -PB	L501	87-A50-655-010		COIL,CLK 4.19MHZ(TOKO) 7KLY
CNA451	8B-NFA-626-010		CONN,ASSY,8P -RPB	LED501	87-A40-317-080		LED,SLR-342VCT31 RED
FFC602	88-906-251-110		FF-CABLE,6P 1.25	S201	87-A90-164-080		SW,TACT SKQAB(N)
J101	87-A60-602-010		JACK,DIA6.3 BLK ST W/SW TC	S202	87-A90-164-080		SW,TACT SKQAB(N)
J205	87-A60-545-010		JACK,PIN 4P W/R<205U>	S203	87-A90-164-080		SW,TACT SKQAB(N)
J602	87-A60-881-010		JACK,PIN 2P MSP<EXCEPT 205U>	S204	87-A90-164-080		SW,TACT SKQAB(N)
L101	87-A50-611-010		COIL,1UH K(CS)	S205	87-A90-164-080		SW,TACT SKQAB(N)
L102	87-A50-611-010		COIL,1UH K(CS)	S206	87-A90-164-080		SW,TACT SKQAB(N)
L451	87-007-342-010		COIL,OSC 85K BIAS	S207	87-A90-164-080		SW,TACT SKQAB(N)
L451	87-007-342-010		COIL,OSC 85K BIAS	S208	87-A90-164-080		SW,TACT SKQAB(N)
△ PT1	8B-NFA-611-010		PT,BNF-A EZ-LOW<200EZ,205EZ>	S209	87-A90-164-080		SW,TACT SKQAB(N)
△ PT1	8B-NFA-609-010		PT,BNF-A LH<200LH>	S210	87-A90-164-080		SW,TACT SKQAB(N)<205EZ>
△ PT1	8B-NFA-607-010		PT,BNF-A U<200U>	S211	87-A90-164-080		SW,TACT SKQAB(N)<205EZ>
△ PT1	8B-NFA-613-010		PT,BNF-A U-HI-SUR<205U>	S212	87-A90-164-080		SW,TACT SKQAB(N)<205EZ>
△ PT2	8B-NF9-665-010		PT,SUB BNF E (TAM)<200EZ,205EZ>	S213	87-A90-164-080		SW,TACT SKQAB(N)
△ PT2	8B-NF9-663-010		PT,SUB BNF H (TAM)<200LH>	S214	87-A90-164-080		SW,TACT SKQAB(N)
△ PT2	8B-NF9-661-010		PT,SUB BNF U (TAM)<200U,205U>	S215	87-A90-164-080		SW,TACT SKQAB(N)
△ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<200LH>	S216	87-A90-164-080		SW,TACT SKQAB(N)
△ RY181	87-A92-072-010		RELAY,AC DC12V HRM3H-S-1POLE<U>	S217	87-A90-164-080		SW,TACT SKQAB(N)
△ RY181	87-A91-418-010		RELAY,AC12V G5PA-1-M<200EZ,205EZ>	S218	87-A90-164-080		SW,TACT SKQAB(N)
△ S181	87-A90-165-010		SW,SL 1-2-3 SWS2301<200LH>	S219	87-A90-164-080		SW,TACT SKQAB(N)
△ T181	87-A60-317-010		TERMINAL, 1P MSC	S220	87-A90-164-080		SW,TACT SKQAB(N)
△ T182	87-A60-317-010		TERMINAL, 1P MSC	S221	87-A90-164-080		SW,TACT SKQAB(N)
TM101	87-A61-452-010		TERMINAL,SP 4P(MSC)	S222	87-A90-164-080		SW,TACT SKQAB(N)
				S223	87-A90-164-080		SW,TACT SKQAB(N)
				S230	87-A92-054-010		SW,RTRY EC12E24504
FRONT C.B				TUNER C.B			
C301	87-010-759-080		C-CAP,U, 0.1-25F	C771	87-010-263-080		CAP, ELECT 100-10V
C303	87-012-280-080		CAP, U 3300P-50	C772	87-012-286-080		CAP, U 0.01-25
C304	87-016-116-080		C-CAP,U 0.015-25 J B CB	C779	87-010-949-080		C-CAP,S 0.01-50 BJ<200EZ,205EZ>
C305	87-012-184-080		C-CAP,U 33P-50 CH	C780	87-010-949-080		C-CAP,S 0.01-50 BJ<200EZ,205EZ>
C306	87-012-274-080		CHIP CAP,U 1000P-50B	C782	87-012-286-080		C-CAP,U 0.01-25 K B
C307	87-012-274-080		CHIP CAP,U 1000P-50B	C783	87-012-286-080		C-CAP,U 0.01-25 K B
C308	87-010-544-040		CAP,E 0.1-50 SME	C784	87-012-286-080		C-CAP,U 0.01-25 K B
C309	87-010-404-040		CAP,E 4.7-50 SME	C785	87-012-286-080		C-CAP,U 0.01-25 K B
C310	87-012-286-080		CAP, U 0.01-25	C786	87-012-286-080		C-CAP,U 0.01-25 K B
C311	87-A12-052-080		C-CAP,S 0.033-25 J B				

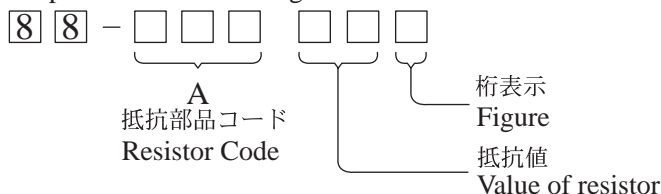
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C788	87-012-167-080		C-CAP,U 5P-50 CH	C942	87-012-165-080		CAP 3P<200EZ,205EZ>
C789	87-A12-052-080		C-CAP,S 0.033-25<200LH,200U,205U>	C947	87-012-286-080		CAP, U 0.01-25<200EZ,205EZ>
C789	87-016-118-080		C-CAP,U0.022-25BJ<200EZ,205EZ>	C948	87-A10-039-080		C-CAP,U 470P-50 J CH<200EZ,205EZ>
C790	87-A12-052-080		C-CAP,S 0.033-25<200LH,200U,205U>	C952	87-012-286-080		CAP, U 0.01-25<200EZ,205EZ>
C790	87-016-118-080		C-CAP,U0.022-25BJ<200EZ,205EZ>	C957	87-012-174-080		C-CAP, CERA SS 12P CHJ<200EZ,205EZ>
C791	87-010-759-080		C-CAP,U, 0.1-25F	C958	87-012-286-080		C-CAP,U 0.01-25 K B<200EZ,205EZ>
C792	87-012-286-080		C-CAP,U 0.01-25 K B	C959	87-010-831-080		C-CAP,U 0.1-16 Z F<200LH,200U,205U>
C793	87-010-404-080		CAP, ELECT 4.7-50V	C960	87-010-831-080		C-CAP,U 0.1-16 Z F
C795	87-012-286-080		C-CAP,U 0.01-25 K B	C961	87-012-167-080		C-CAP,U 5P-50 CH<200LH,200U,205U>
C796	87-012-286-080		C-CAP,U 0.01-25 K B	C962	87-010-401-080		CAP, ELECT 1-50V<200EZ,205EZ>
C797	87-010-405-080		CAP, ELECT 10-50V	C963	87-015-785-080		C-CAP,0.1-25 Z F C3216
C798	87-012-286-080		C-CAP,U 0.01-25 K B	C971	87-010-381-080		CAP, ELECT 330-16V
C799	87-010-265-080		CAP, ELECT 33-16V	C972	87-010-404-080		CAP, ELECT 4.7-50V
C800	87-012-369-080		C-CAP,S 0.047-50F	C973	87-012-286-080		C-CAP,U 0.01-25 K B
C801	87-010-403-080		CAP, ELECT 3.3-50V	C974	87-012-286-080		C-CAP,U 0.01-25 K B
C802	87-012-369-080		C-CAP,S 0.047-50F	C979	87-012-195-080		C-CAP,U 100P-50 J CH
C803	87-010-787-080		CAP, U 0.022-25	C981	87-010-260-080		CAP, ELECT 47-25V
C804	87-010-263-080		CAP, ELECT 100-10V	C982	87-010-759-080		C-CAP,U, 0.1-25F
C807	87-010-400-080		CAP, ELECT 0.47-50V	C983	87-012-286-080		C-CAP,U 0.01-25 K B
C808	87-010-401-080		CAP, ELECT 1-50V	C984	87-012-286-080		C-CAP,U 0.01-25 K B
C809	87-010-401-080		CAP, ELECT 1-50V	C985	87-012-195-080		C-CAP,U 100P-50CH<200EZ,205EZ>
C810	87-010-759-080		C-CAP,U, 0.1-25F	C987	87-012-286-080		C-CAP,U 0.01-25 K B
C814	87-012-286-080		CAP, U 0.01-25	C989	87-012-286-080		C-CAP,U 0.01-25 K B<200EZ,205EZ>
C815	87-010-400-080		CAP, ELECT 0.47-50V	C991	87-012-176-080		CAP 15P
C816	87-010-400-080		CAP, ELECT 0.47-50V	C992	87-012-176-080		CAP 15P
C818	87-012-276-080		CAP, CHIP SS 1500 PBK<200EZ,205EZ>	C993	87-010-178-080		CHIP CAP 1000P
C821	87-010-405-080		CAP, ELECT 10-50V	C995	87-010-178-080		CHIP CAP 1000P
C823	87-012-349-080		C-CAP,S 1000P-50 CH<200EZ,205EZ>	C997	87-010-759-080		C-CAP,U, 0.1-25F
C823	87-A10-978-080		C-CAP,U 820P-25<200LH,200U,205U>	C998	87-010-260-080		CAP, ELECT 47-25V
C824	87-010-404-080		CAP, ELECT 4.7-50V	C999	87-012-286-080		C-CAP,U 0.01-25 K B
C825	87-010-829-080		CAP, U 0.047-16	CF831	87-008-423-010		CERAMIC FILTER, SFE10.7<EZ>
C831	87-010-406-080		CAP, ELECT 22-50<200EZ,205EZ>	CF831	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT EZ>
C842	87-012-286-080		C-CAP,U 0.01-25 K B	CF832	82-785-747-010		CF MS2 GHY R<200EZ,205EZ>
C844	87-012-286-080		C-CAP,U 0.01-25 K B	CF832	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT EZ>
C850	87-010-260-080		CAP, ELECT 47-25V	D902	87-A40-128-080		C-VARI-CAP,HVU202A<EXCEPT EZ>
C851	87-012-286-080		C-CAP,U 0.01-25 K B	D903	87-A40-128-080		C-VARI-CAP,HVU202A<EXCEPT EZ>
C852	87-012-286-080		C-CAP,U 0.01-25 K B	FFE831	A8-6ZA-199-170		6ZA-1 FEENC<200EZ,205EZ>
C853	87-012-286-080		C-CAP,U 0.01-25 K B	J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<EXCEPT EZ>
C858	87-010-831-080		C-CAP,U 0.1-16 Z F	J832	87-008-403-010		TERMINAL,ANT PAL 2P HSP-312V05<EZ>
C859	87-010-831-080		C-CAP,U 0.1-16 Z F<200EZ,205EZ>	L801	87-A50-608-010		COIL,FM DET-N(TOK)
C860	87-012-286-080		C-CAP,U 0.01-25 K B<200EZ,205EZ>	L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
C869	87-012-286-080		CAP, U 0.01-25<205EZ>	L811	87-005-847-080		COIL,2.2UH(CECS)
C870	87-012-274-080		CHIP CAP,U 1000P-50B<205EZ>	L832	87-005-847-080		COIL,2.2UH(CECS)
C871	87-012-199-080		CAP 220P<205EZ>	L861	87-005-847-080		COIL,2.2UH(CECS)<205EZ>
C872	87-012-199-080		CAP 220P<205EZ>	L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<200LH,200U,205U>
C873	87-A10-039-080		C-CAP,U 470P-50 J CH<205EZ>	L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<200LH,200U,205U>
C874	87-010-405-080		CAP, ELECT 10-50V<205EZ>	L904	87-005-847-080		COIL,2.2UH(CECS)<200LH,200U,205U>
C875	87-010-759-080		C-CAP,U, 0.1-25F<205EZ>	L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)<EXCEPT EZ>
C876	87-010-405-080		CAP, ELECT 10-50V<205EZ>	L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<200LH,200U,205U>
C877	87-012-286-080		CAP, U 0.01-25<205EZ>	L941	87-A50-020-010		COIL,ANT LW(COI)<200EZ,205EZ>
C878	87-012-184-080		C-CAP,U 33P-50 CH<205EZ>	L942	87-A50-019-010		COIL,OSC LW(COI)<200EZ,205EZ>
C879	87-012-180-080		C-CAP,U 22P-50 CH<205EZ>	L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)<200EZ,205EZ>
C901	87-018-145-080		CAP,TC-U 6.8P-50<200LH,200U,205U>	L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)<200LH,200U,205U>
C904	87-012-286-080		CAP, U 0.01-25<200LH,200U,205U>	R790	87-012-286-080		C-CAP,U 0.01-25 K B
C905	87-012-286-080		CAP, U 0.01-25<200LH,200U,205U>	R991	87-012-195-080		C-CAP,U 100P-50 J CH
C907	87-012-286-080		CAP, U 0.01-25<200LH,200U,205U>	R993	87-012-195-080		C-CAP,U 100P-50 J CH
C908	87-A10-915-080		C-CAP,U 1000P-25<200LH,200U,205U>	R995	87-012-195-080		C-CAP,U 100P-50 J CH
C909	87-012-286-080		CAP, U 0.01-25<200LH,200U,205U>	TC942	87-A91-774-080		TRIMMER,PLY 30P 6.8X5.4 CDYL<EZ>
C910	87-012-174-080		C-CAP, CERA SS 12P<200LH,200U,205U>	X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST<205EZ>
C911	87-012-170-080		C-CAP,U 8P-50 CH<200LH,200U,205U>	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
C912	87-012-195-080		C-CAP,U 100P-50CH<200LH,200U,205U>				
C913	87-012-286-080		CAP, U 0.01-25<200LH,200U,205U>	AMP C.B			
C914	87-012-166-080		C-CAP,U 4P-50 CH<200LH,200U,205U>				
C915	87-012-174-080		C-CAP, CERA SS 12P<200LH,200U,205U>	C32	87-012-286-080		CAP, U 0.01-25
C916	87-012-180-080		C-CAP,U 22P-50 CH<200LH,200U,205U>	C33	87-010-263-080		CAP, ELECT 100-10V<200U,205U>
C917	87-012-186-080		C-CAP,U 39P-50 CH<200LH,200U,205U>	C34	87-010-247-080		CAP, ELECT 100-50V<200LH,205U>
C918	87-A10-039-080		C-CAP,U 470P-50<200LH,200U,205U>	C34	87-010-380-080		CAP, ELECT 47-16V<200EZ,205EZ,200U>
C921	87-012-195-080		C-CAP,U 100P-50CH<200LH,200U,205U>	C101	87-012-279-080		C-CAP,U 2700P-50 B<200LH,205U>
C922	87-012-174-080		C-CAP, CERA SS 12P<200LH,200U,205U>	C101	87-012-281-080		C-CAP,U 3900P-50 B<200EZ,205EZ,200U>
C940	87-012-286-080		CAP, U 0.01-25<200EZ,205EZ>	C102	87-012-279-080		C-CAP,U 2700P-50 B<200LH,205U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C102	87-012-281-080		C-CAP, U 3900P-50 B<200EZ, 205EZ, 200U>	C188	87-010-405-080		CAP, ELECT 10-50V<200LH, 205U>
C103	87-010-545-080		CAP, ELECT 0.22-50V	CN101	87-A61-015-010		CONN, 17P H BLK TAC-L17P-A3
C104	87-010-545-080		CAP, ELECT 0.22-50V	R129	87-A00-257-080		RES, M/F 0.15-1W J<200LH, 205U>
C105	87-012-282-080		CAP, U 4700P-50<200EZ, 205EZ, 200U>	R130	87-A00-257-080		RES, M/F 0.15-1W J<200LH, 205U>
C105	87-012-274-080		CHIP CAP, U 1000P-50B<200LH, 205U>	R131	87-A00-257-080		RES, M/F 0.15-1W J<200LH, 205U>
C106	87-012-282-080		CAP, U 4700P-50<200EZ, 205EZ, 200U>	R131	87-A00-258-080		RES, M/F 0.22-1W J<200U>
C106	87-012-274-080		CHIP CAP, U 1000P-50B<200LH, 205U>	R132	87-A00-257-080		RES, M/F 0.15-1W J<200LH, 205U>
C107	87-010-403-080		CAP, ELECT 3.3-50V	R132	87-A00-258-080		RES, M/F 0.22-1W J<200U>
C108	87-010-403-080		CAP, ELECT 3.3-50V	TH101	87-A91-042-080		C-THMS, 100K 55001<200LH, 200U, 205U>
C111	87-010-406-080		CAP, ELECT 22-50<200EZ, 205EZ, 200U>	TH102	87-A91-042-080		C-THMS, 100K 55001<200LH, 200U, 205U>
C111	87-010-391-080		CAP, E 10-35 SME<200LH, 205U>				
C112	87-010-406-080		CAP, ELECT 22-50<200EZ, 205EZ, 200U>	DECK C.B			
C112	87-010-391-080		CAP, E 10-35 SME<200LH, 205U>	CN1	87-099-753-010		CONN, 11P H 9604
C113	87-A10-946-080		C-CAP, S 220P-100 J CH<EXCEPT EZ>	SFR1	87-024-581-010		SFR, 3.3K DIA6V KOA
C113	87-012-199-080		CAP 220P<200EZ, 205EZ>	SOL1	82-ZM1-618-410		SOL ASSY, 27
C114	87-A10-946-080		C-CAP, S 220P-100<200LH, 200U, 205U>	SOL2	82-ZM1-618-410		SOL ASSY, 27
C114	87-012-199-080		CAP 220P<200EZ, 205EZ>				
C119	87-012-286-080		CAP, U 0.01-25	SW1	87-A90-673-010		SW, MICRO ESE11SH1C
C120	87-012-286-080		CAP, U 0.01-25	SW2	87-A91-500-010		SW, MICRO MPU11470MLB0
C121	87-A12-317-080		C-CAP, U 0.1-50 Z F	SW3	87-A91-500-010		SW, MICRO MPU11470MLB0
C122	87-A12-317-080		C-CAP, U 0.1-50 Z F	SW4	87-A91-500-010		SW, MICRO MPU11470MLB0
C133	87-012-282-080		C-CAP, U, 4700P-50 K B	SW5	87-A90-673-010		SW, MICRO ESE11SH1C
C140	87-012-278-080		C-CAP, U 2200P-50 B	W1	82-ZM3-601-010		RBN-CORD, 4P-75
C186	87-010-759-080		C-CAP, U, 0.1-25F<200LH, 205U>				
C187	87-010-405-080		CAP, ELECT 10-50V<200LH, 205U>				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

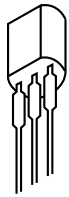
Chip Resistor Part Coding



チップ抵抗
Chip resistor

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

TRANSISTOR ILLUSTRATION



E C B

2SA1980G
CDA1585BC
CSC4115BC
KTC3198GR



B C E

2SA1981Y
2SC5343G



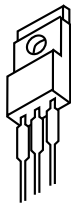
B C E

2SB1342 2SD1933
2SB1370 2SD2619
2SB1677 2SD2642
2SB1686



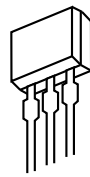
E C B

CC5551



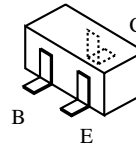
G D S

2SK2937



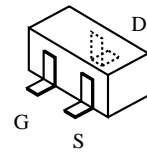
E C B

2SJ460
2SK2541



B C E

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



G D S

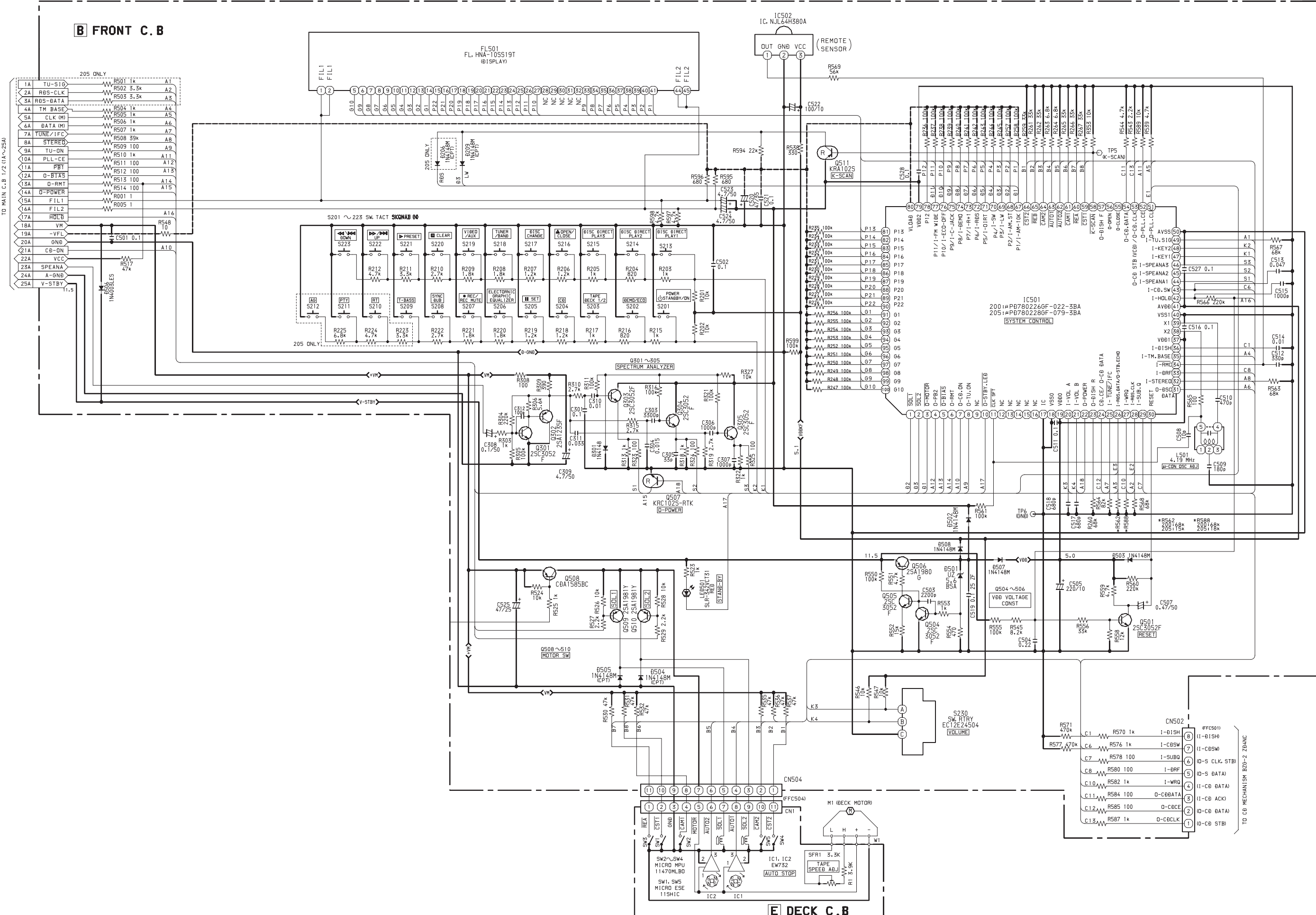
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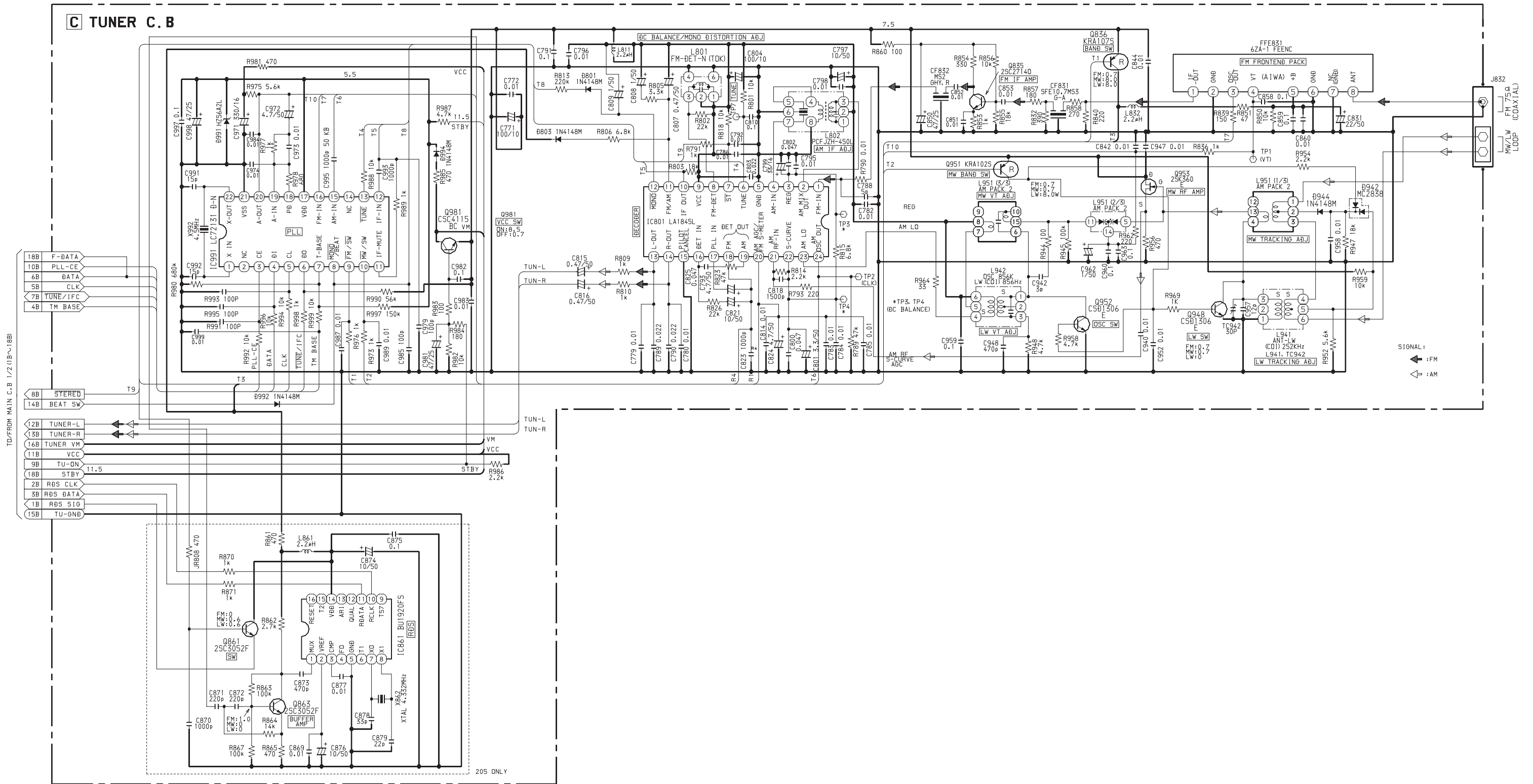
A MAIN C.B 1/2



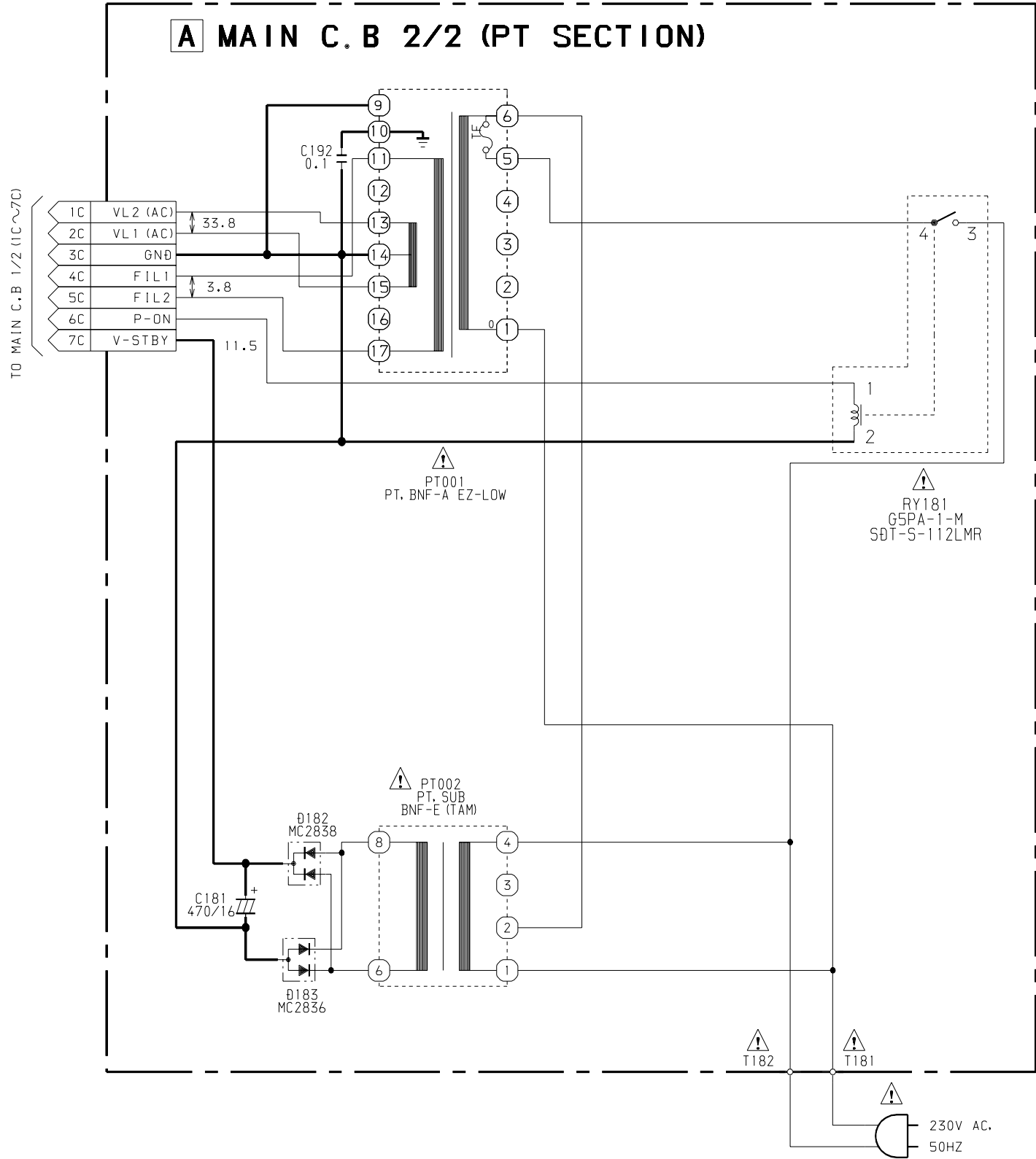
SCHEMATIC DIAGRAM – 2 (FRONT / DECK)<EZ>



SCHEMATIC DIAGRAM – 3 (TUNER)<EZ>

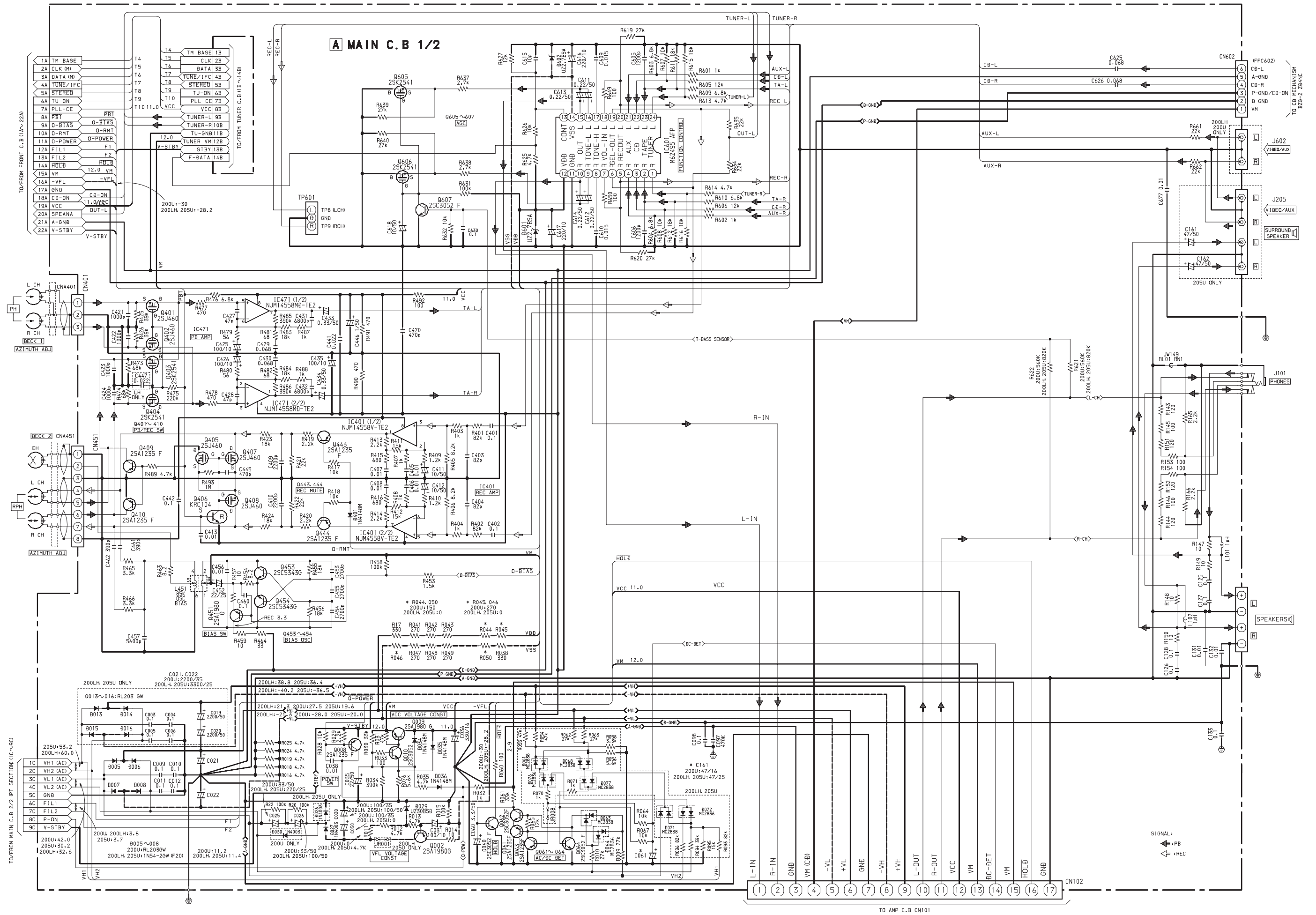


SCHEMATIC DIAGRAM – 4 (MAIN 2/2: PT SECTION)<EZ>

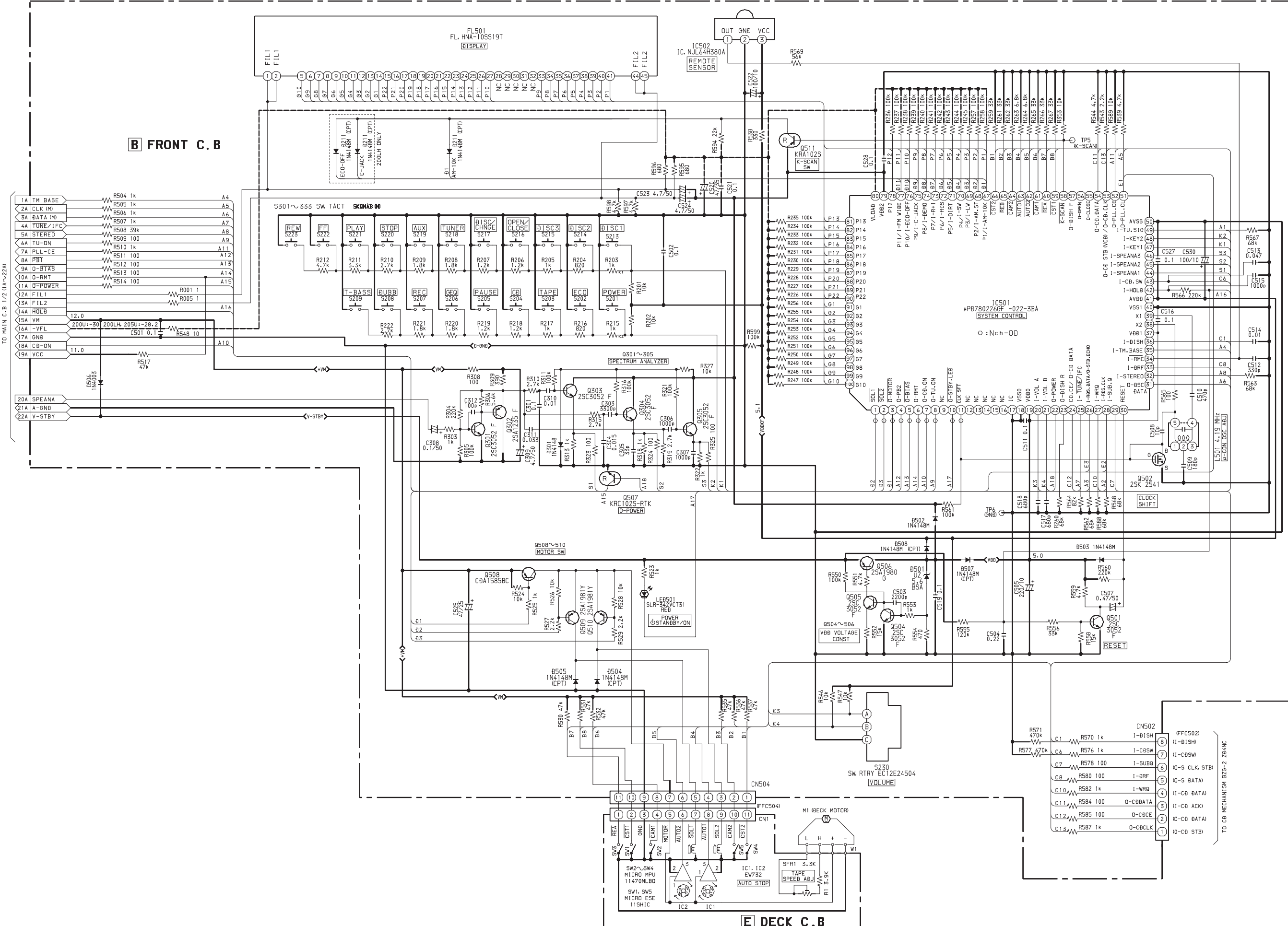




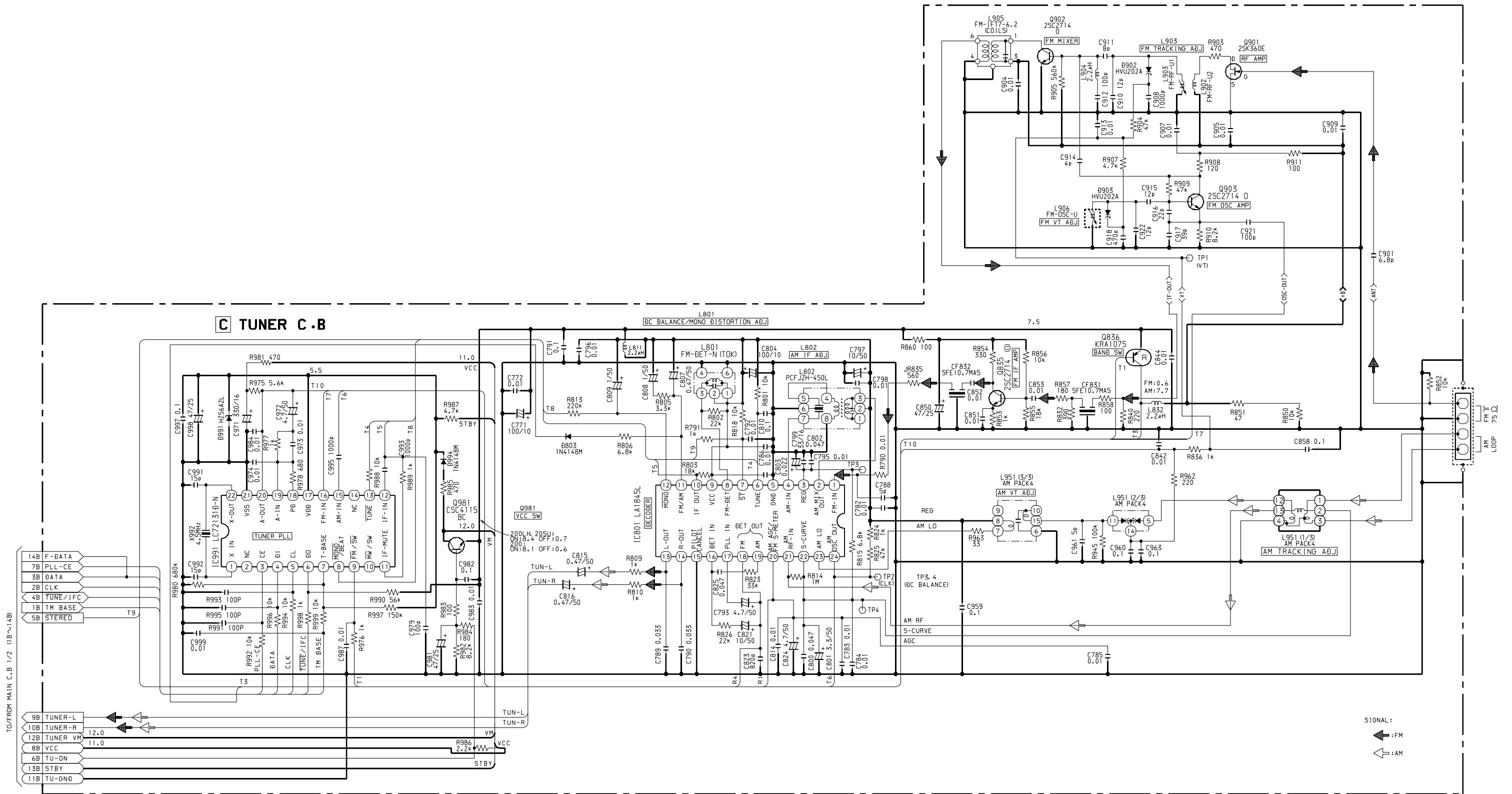
SCHEMATIC DIAGRAM – 5 (MAIN 1/2)<U,LH>



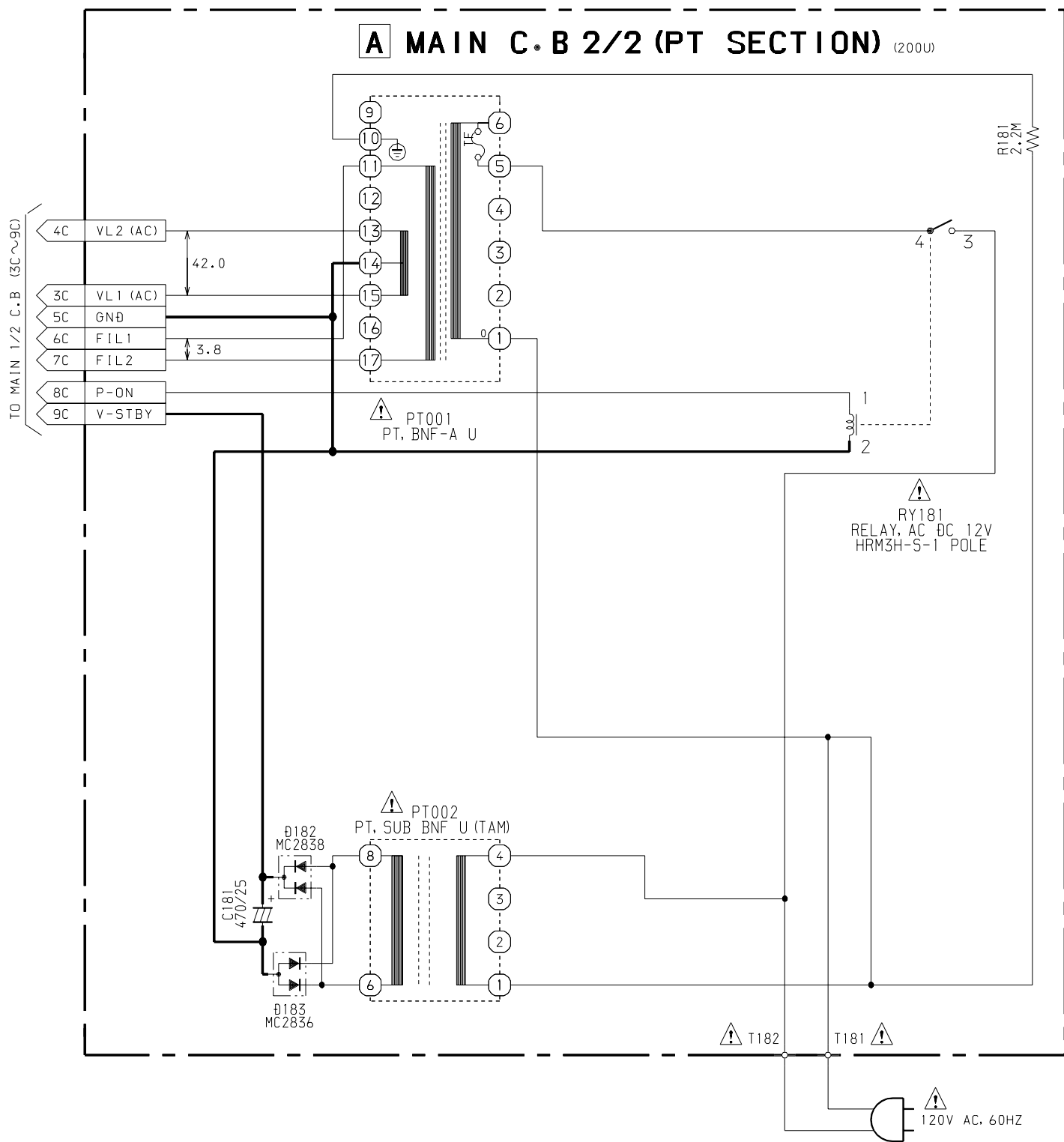
SCHEMATIC DIAGRAM – 6 (FRONT / DECK)<U,LH>



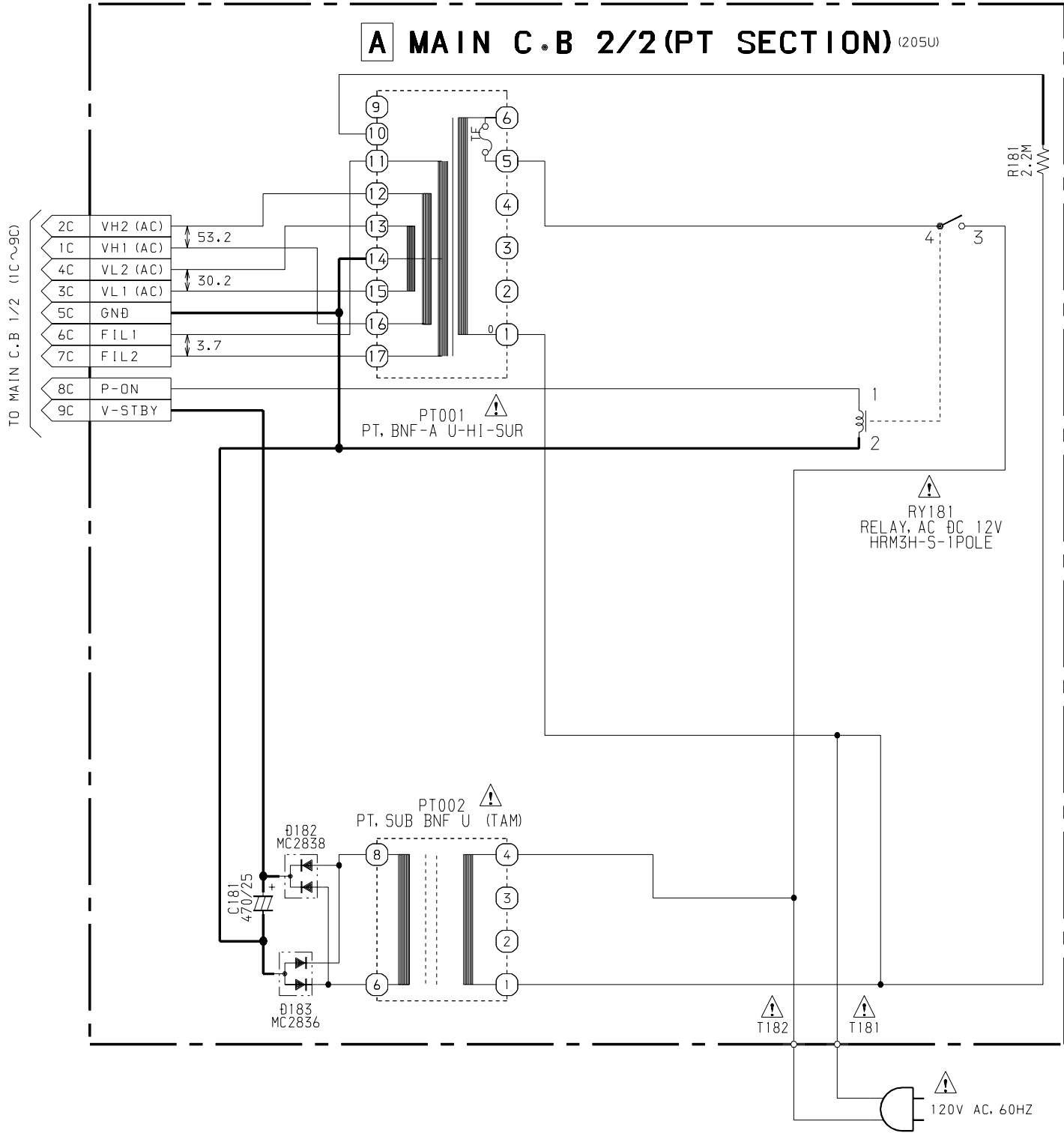
SCHEMATIC DIAGRAM – 7 (TUNER)<U,LH>



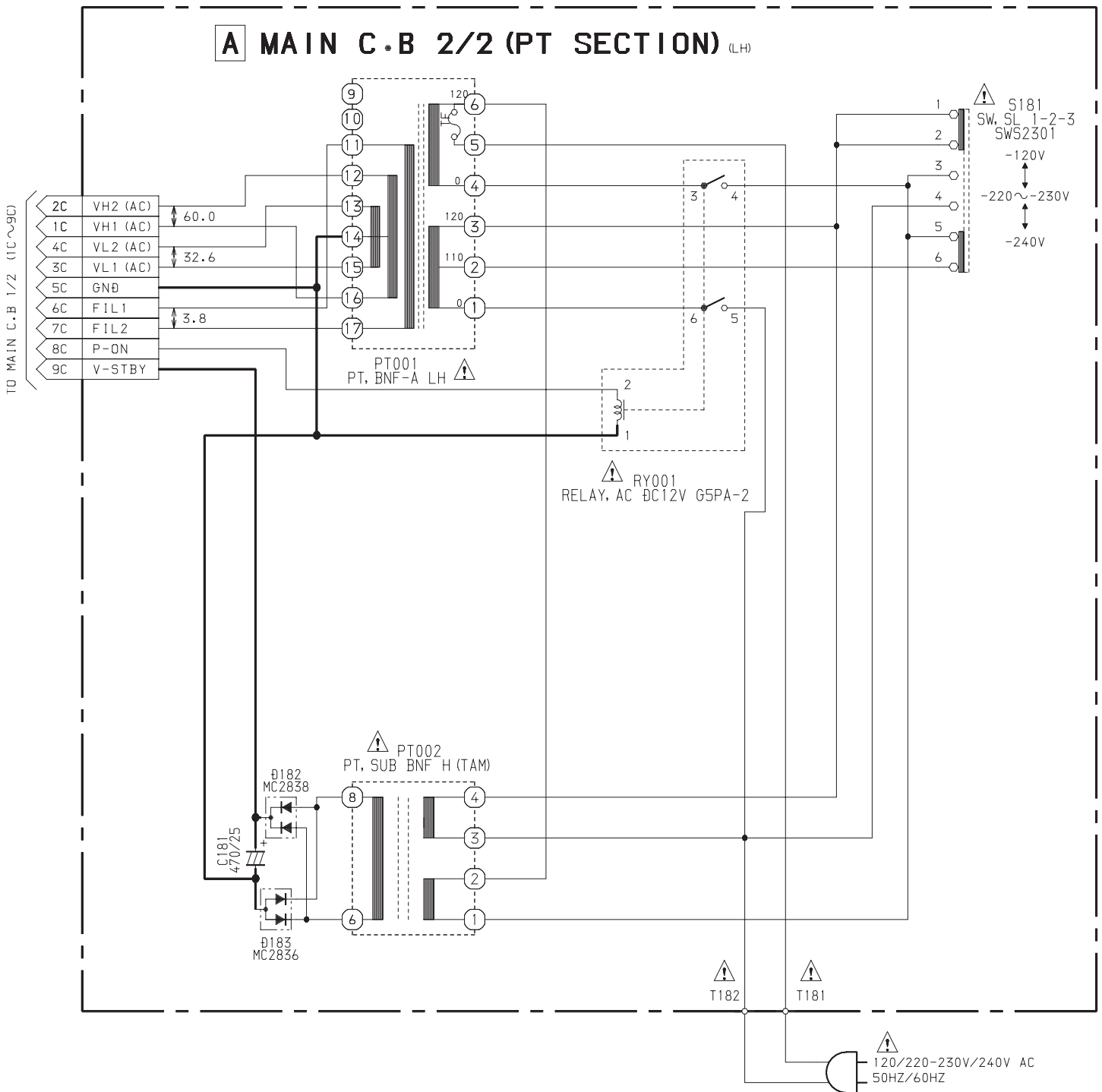
SCHEMATIC DIAGRAM – 8 (MAIN 2/2: PT SECTION)<200U>

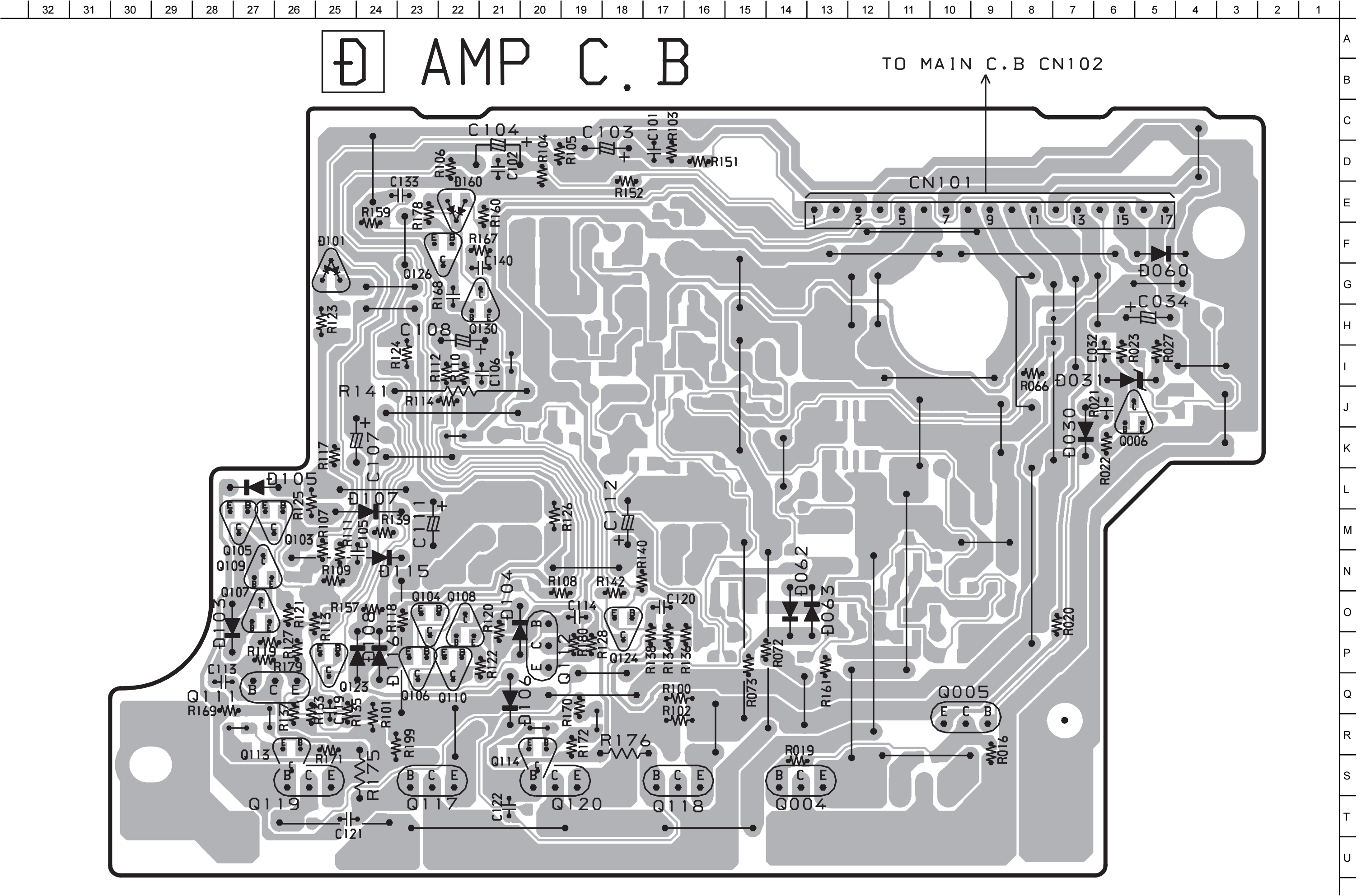


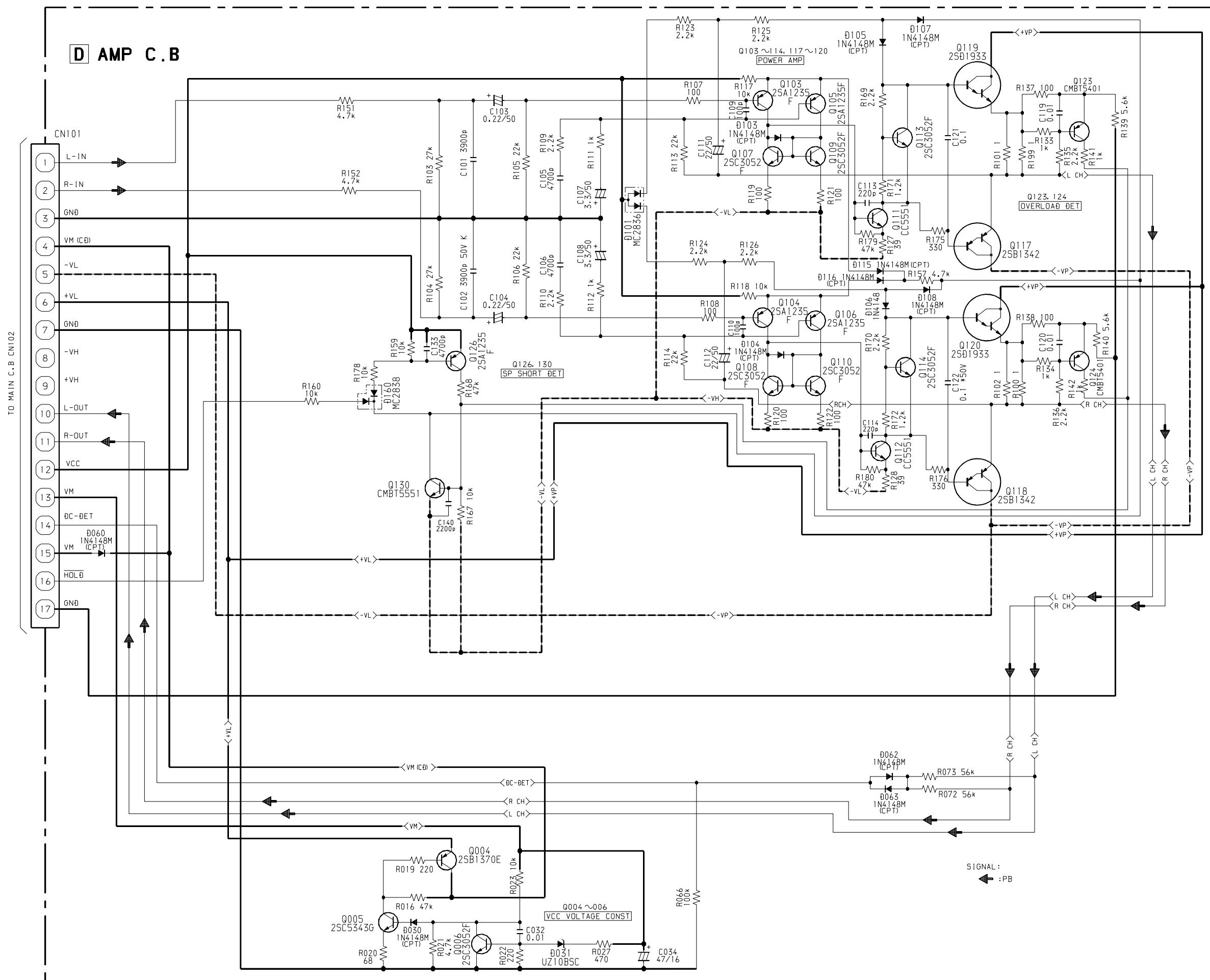
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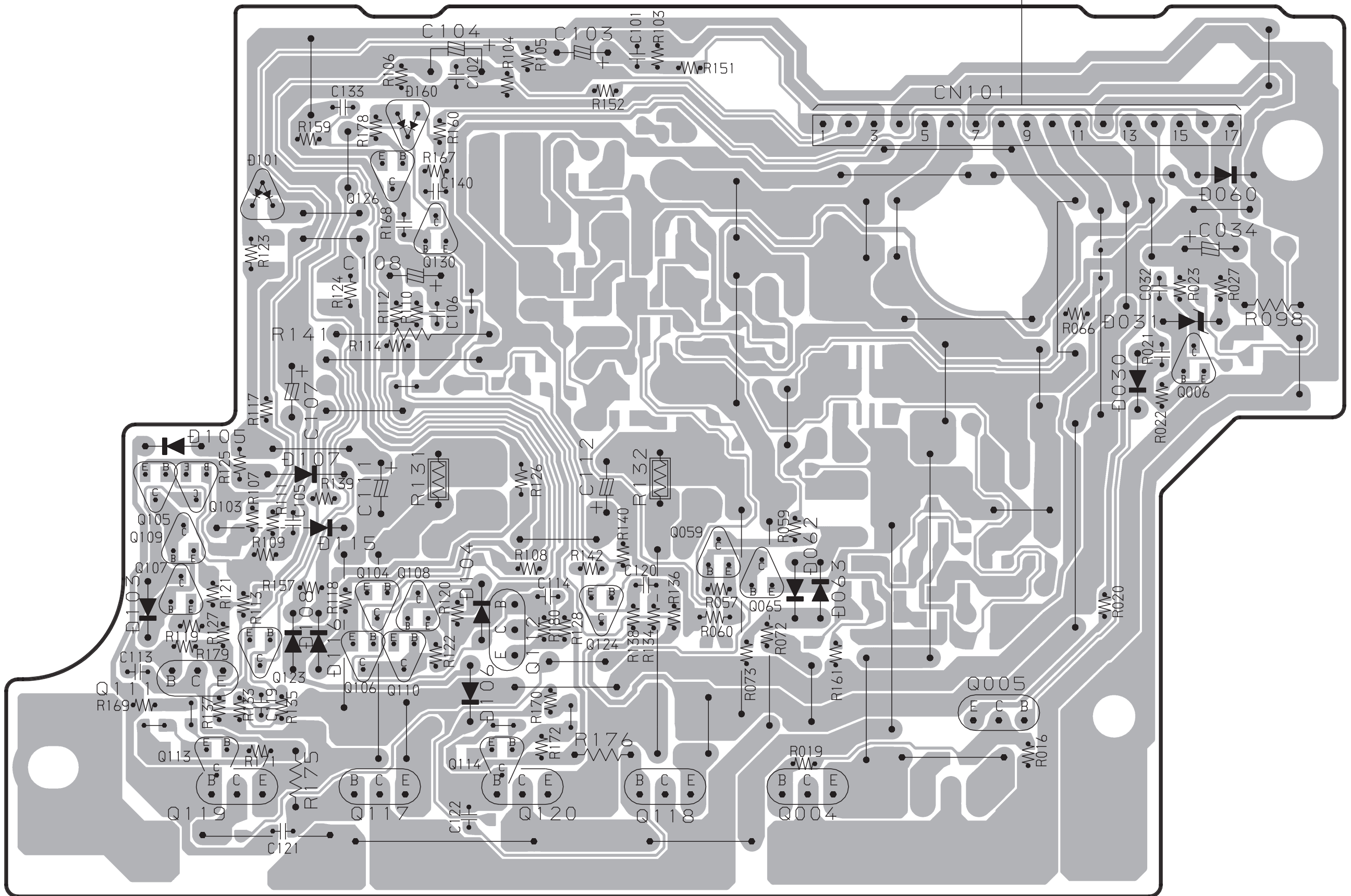


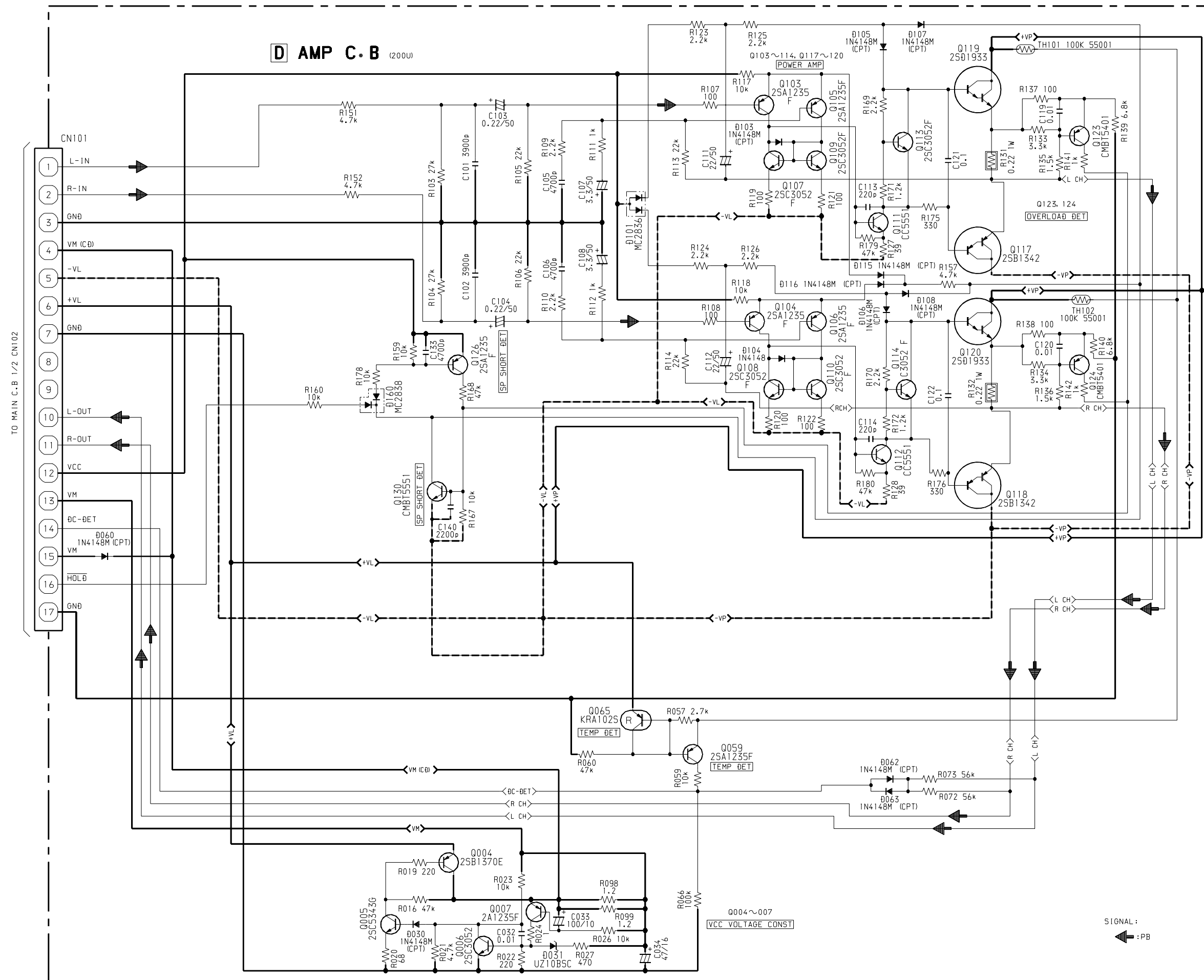
SCHEMATIC DIAGRAM - 10 (MAIN 2/2: PT SECTION)<200LH>

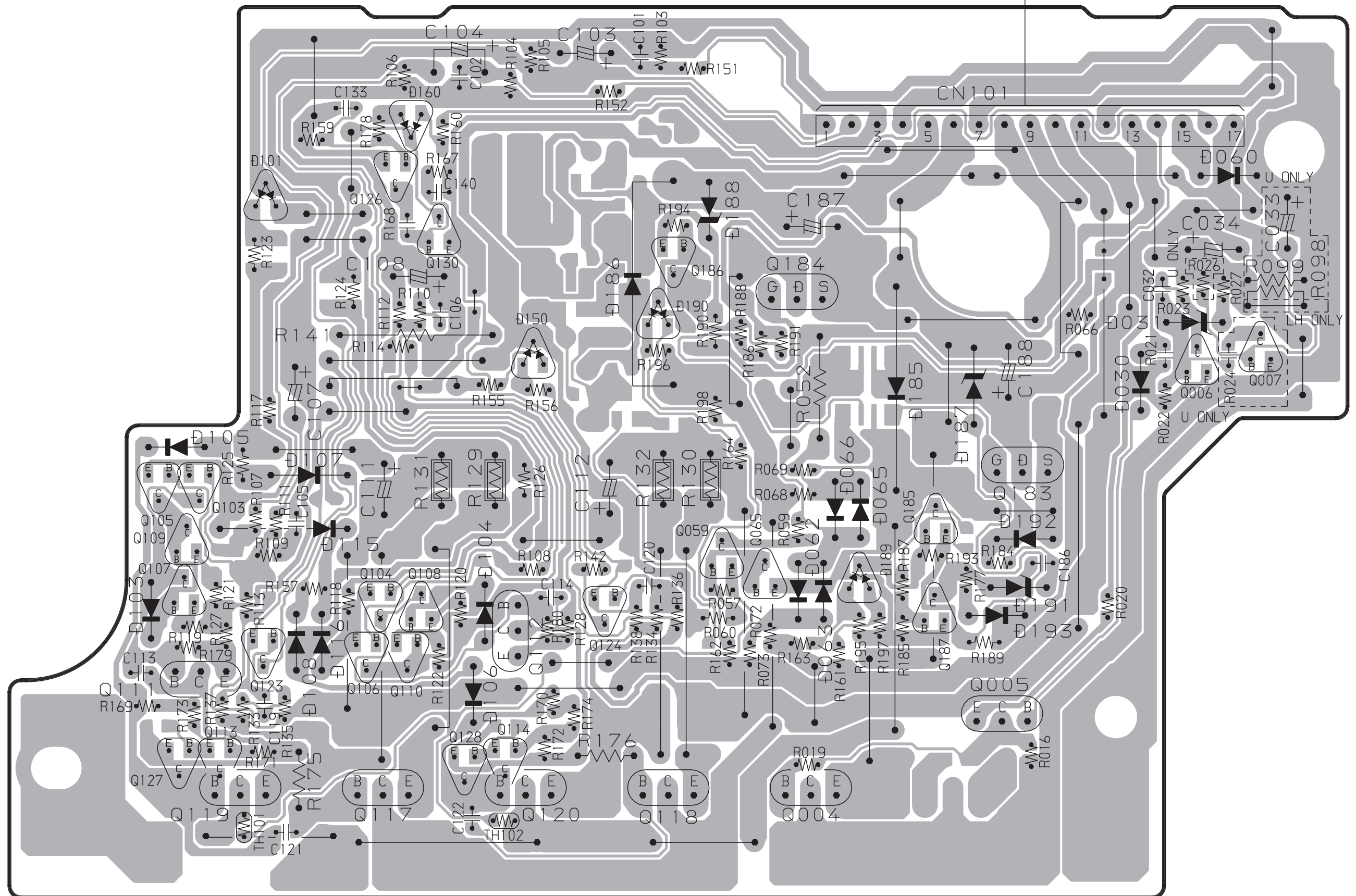




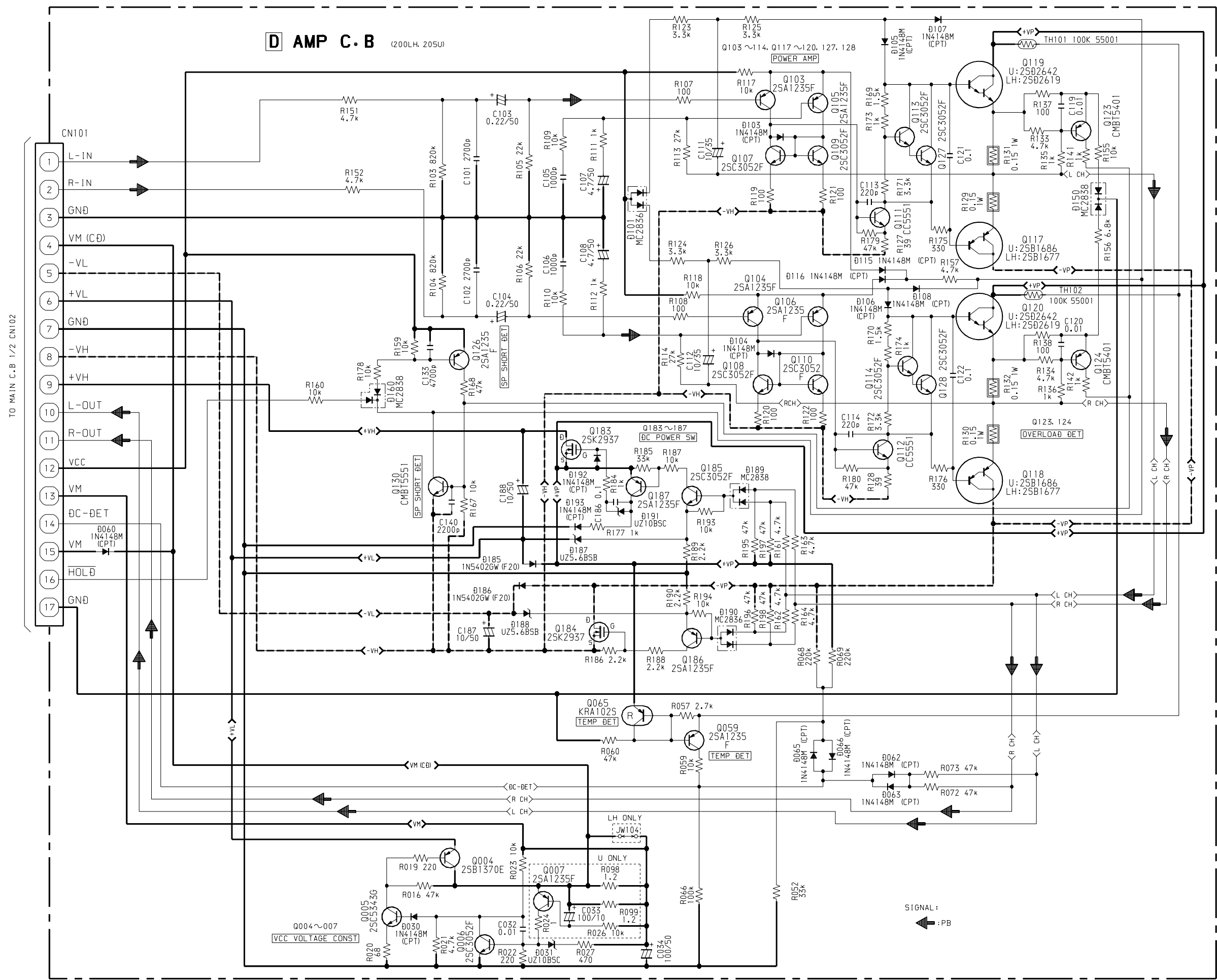


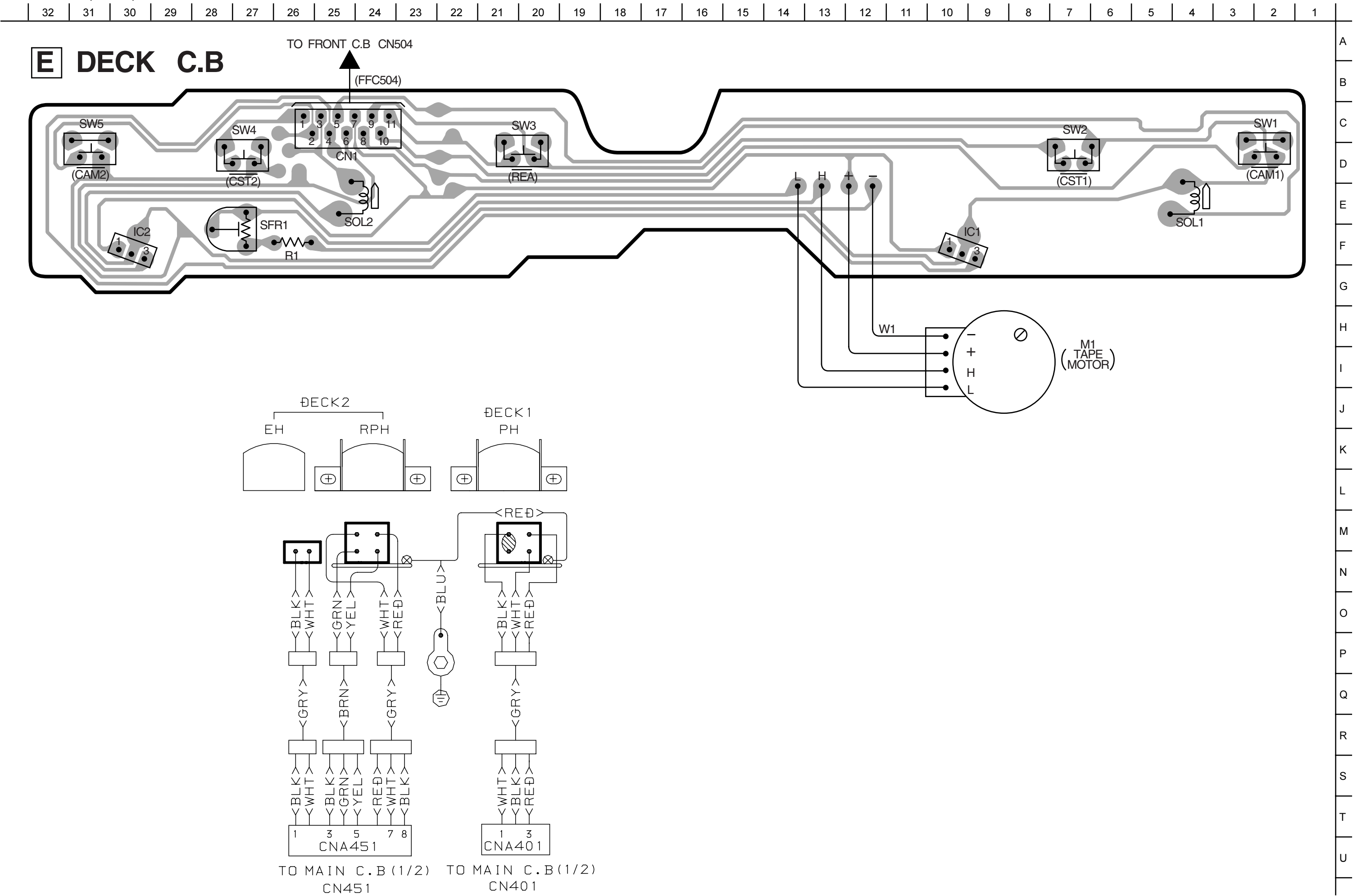




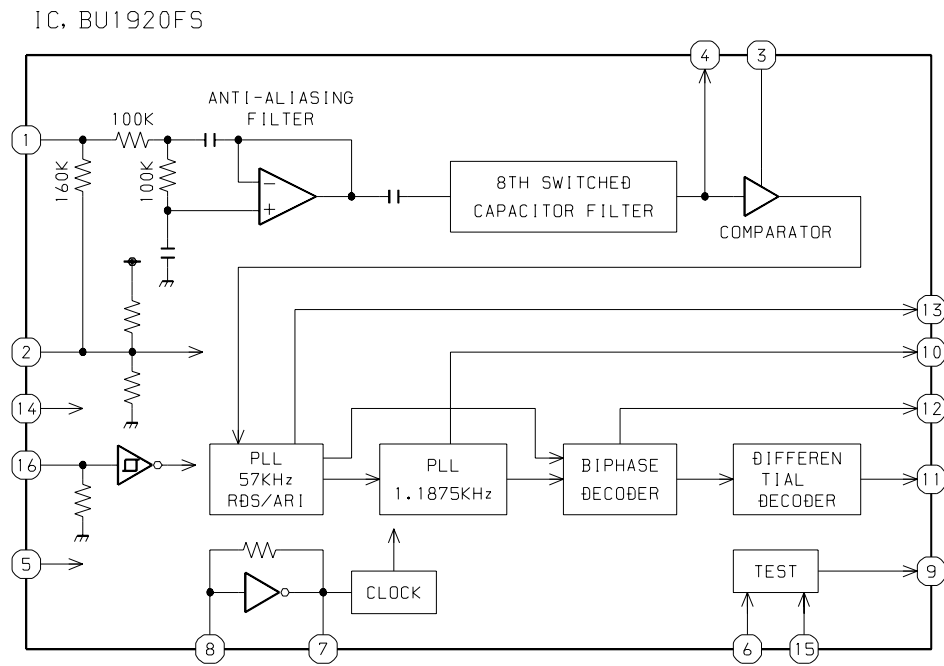
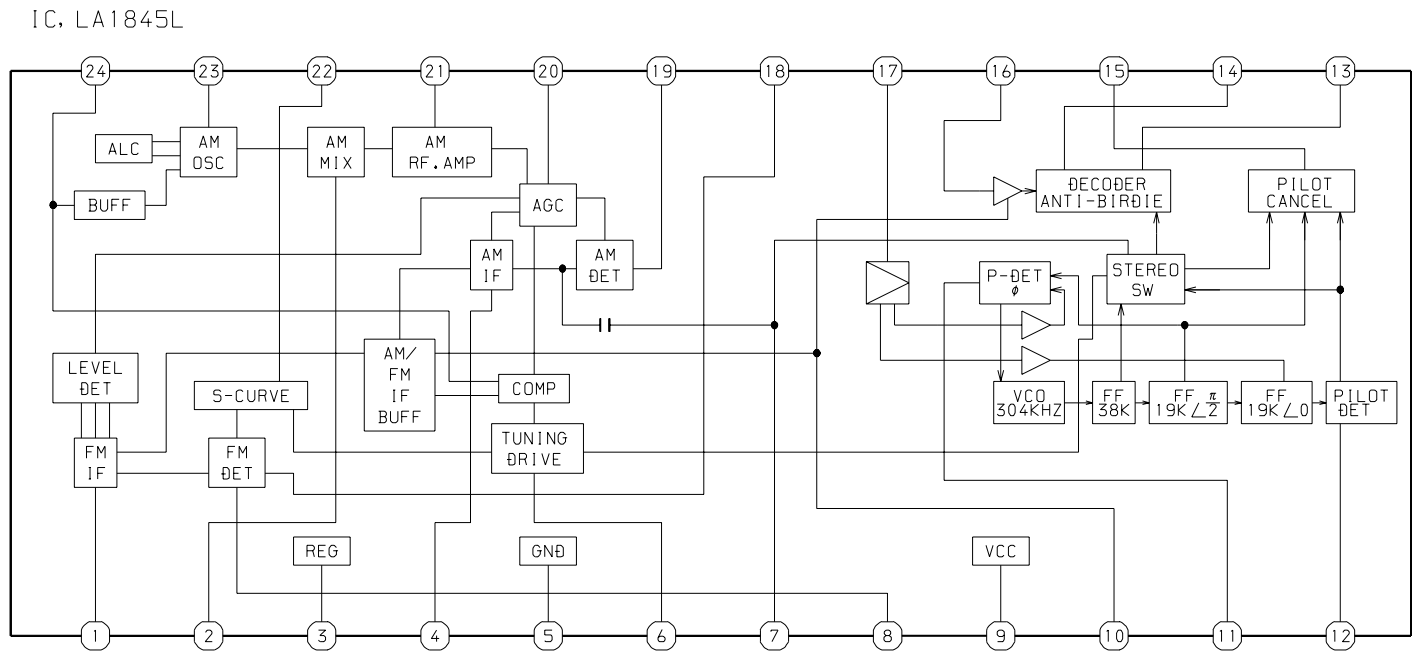
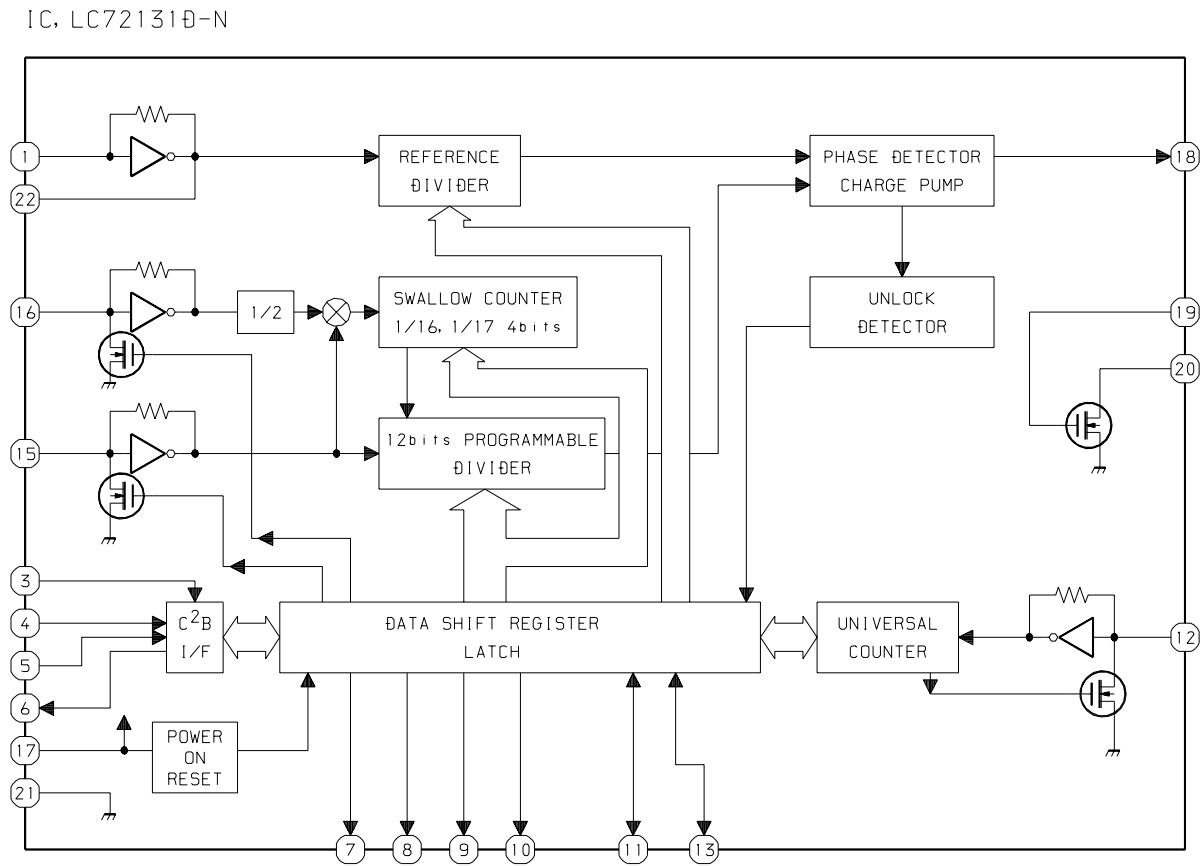
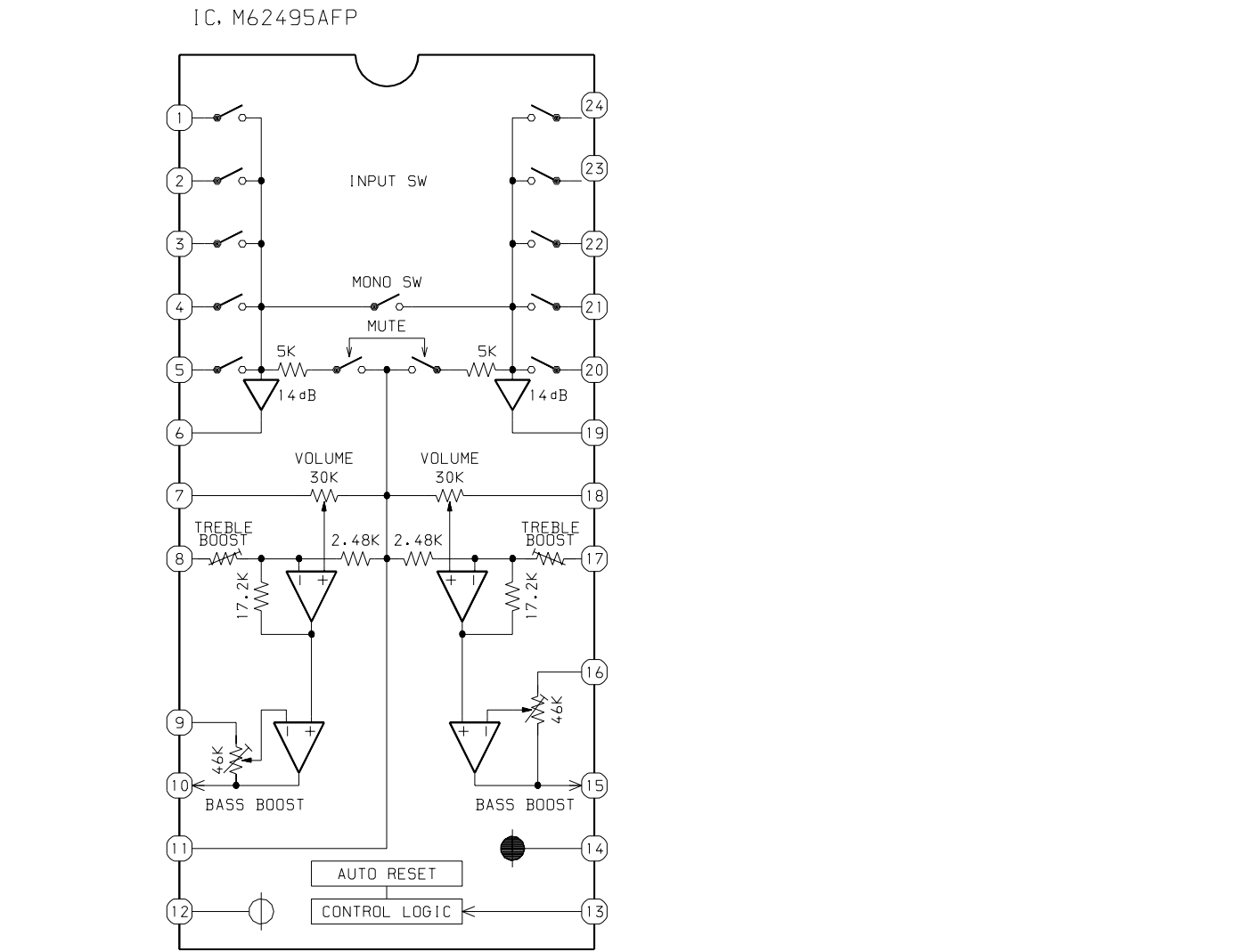


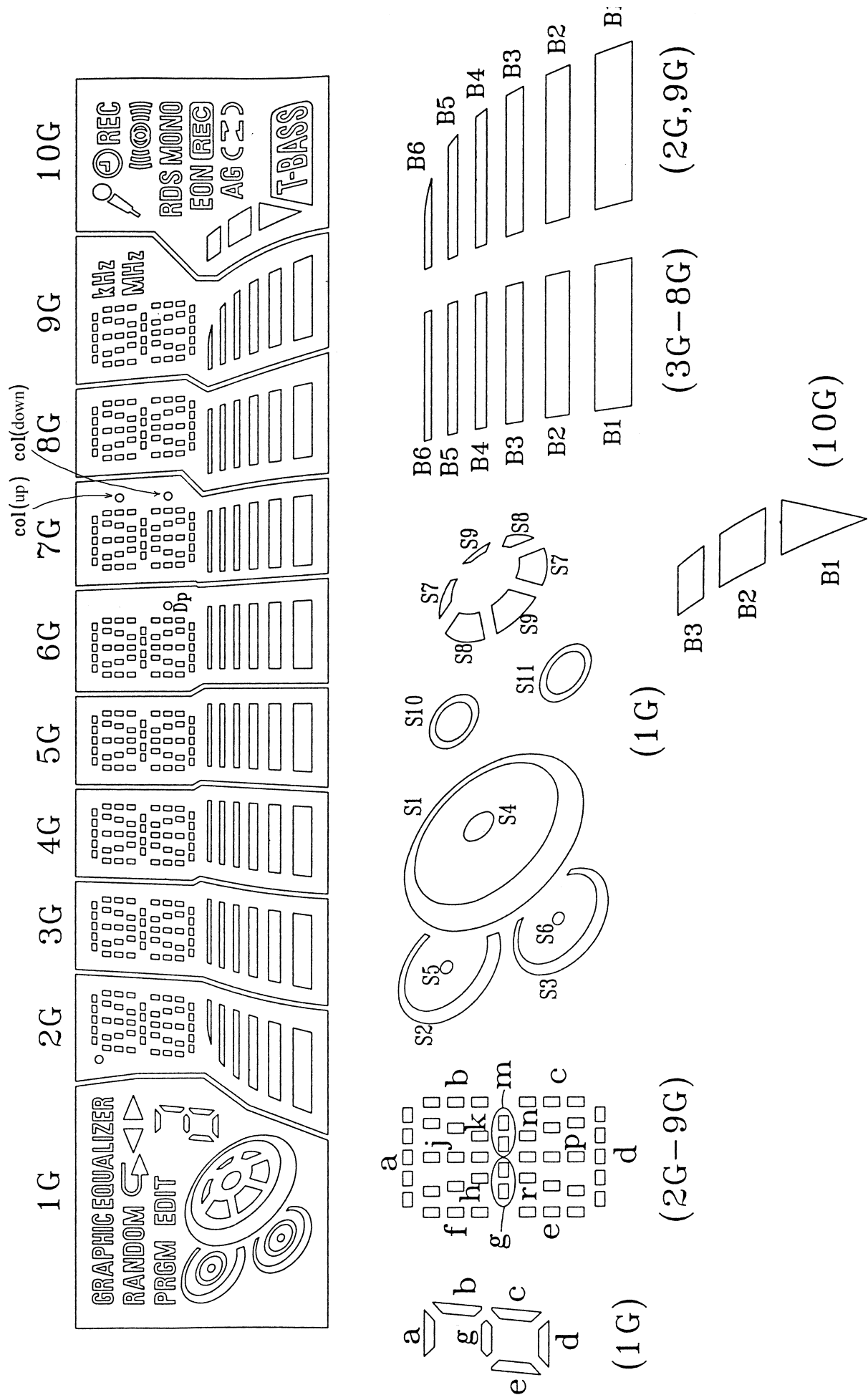
SCHEMATIC DIAGRAM – 13 (AMP)<200LH,205U>





IC BLOCK DIAGRAM





PIN NO.	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
CONNECTION	F2	F2	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	NX	NX	NX	NX	NX	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	1G	2G	3G	4G

10	9	8	7	6	5	4	3	2	1
5G	6G	7G	8G	9G	10G	NP	NP	F1	F1

IC DESCRIPTION

IC, UPD780226GF-022-3BA<EXCEPT 205EZ> / UPD780228GF-079-3BA<205EZ>

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
2	$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
3	$\overline{\text{O-MOTOR}}$	O	DECK MOTOR $\overline{\text{ON}}$ /OFF output.
4	$\overline{\text{O-PB2}}$	O	DECK2/DECK1 play output.
5	$\overline{\text{O-BIAS}}$	O	BIAS ON output.
6	$\overline{\text{O-RMT}}$	O	REC mute output.
7	$\overline{\text{O-CD. ON}}$	O	CD ON output.
8	$\overline{\text{O-TU. ON}}$	O	TUNER ON output.
9	NC	-	Not connected.
10	$\overline{\text{O-STBY. LED}}$	O	STANDBY LED ON/OFF output.
11	$\overline{\text{O-CLK SFT}}$	O	Micon clock shift output.
12 ~ 16	NC	-	Not connected.
17	IC	-	Internal connection (connected to GND).
18	VSS0	-	GND.
19	VDD0	-	Power supply.
20	I-VOL A	I	Volume rotary encoder input A.
21	I-VOL B	I	Volume rotary encoder input B.
22	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON}}$ /OFF output.
23	$\overline{\text{O-DISH-R}}$	O	CD turntable reverse rotation output.
24	CD. CE/O-CD DATA	O	CD enable output / CD data output.
25	$\overline{\text{I-TUNE/IFC}}$	I	Tuner SD detection input / Tuner IF count input.
26	I-RDS. DATA /O-STB. ECHO	I/O	Tuner RDS data input (UPD780228GF-079-3BA only). / Strobe output for shift register.
27	$\overline{\text{I-WRQ}}$	I	CD WRQ input.
28	$\overline{\text{I-RDS. CLK}}$	I	Tuner RDS clock input (UPD780228GF-079-3BA only).
29	$\overline{\text{I-SUB. Q}}$	I	SUB Q data input.
30	RESET	-	System reset.
31	$\overline{\text{O-DSC DATA}}$	O	Function IC control output.
32	$\overline{\text{I-STEREO}}$	I	Tuner stereo input.
33	$\overline{\text{I-DRF}}$	I	CD DRF input.
34	$\overline{\text{I-RMC}}$	I	System remote control input.
35	$\overline{\text{I-TM. BASE}}$	I	Base input for clock.
36	$\overline{\text{I-DISH}}$	I	CD turntable photo sensor A/D input.
37	VDD1	-	Power supply.
38	X2	-	4.19 MHz oscillator circuit.
39	X1	-	4.19 MHz oscillator circuit.
40	VSS1	-	GND.
41	AVDD	-	Power supply.
42	$\overline{\text{I-HOLD}}$	I	Power failure detected input.
43	$\overline{\text{I-CD SW}}$	I	CD mecha switch input.
44	$\overline{\text{I-SPEANA1}}$	I	A/D 1 input for spectrum analyser level display.

Pin No.	Pin Name	I/O	Description
45	I-SPEANA2	I	A/D 2 input for spectrum analyser level display.
46	I-SPEANA3	I	A/D 3 input for spectrum analyser level display.
47	I-KEY1	I	Key 1 input.
48	I-KEY2	I	Key 2 input.
49	I-TU. SIG	I	Tuner tuning signal level input (UPD780228GF-079-3BA only).
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 CLK	O	CD clock output.
54	O-CD DATA	O	CD data output.
55	O-CLOSE	O	CD tray close data output (Not used).
56	O-OPEN	O	CD tray open data output (Not used)s.
57	O-DISH F	O	CD turntable forward rotation output (Not used).
58	$\overline{\text{O-KSCAN}}$	O	Key scan output.
59	$\overline{\text{CST1}}$	I	DECK 1 cassette detect switch data input.
60	$\overline{\text{REA}}$	I	DECK 2 side-A recordable switch data input. "L" = REC.
61	$\overline{\text{CAM1}}$	I	DECK 1 CAM STOP switch data input.
62	$\overline{\text{AUTO2}}$	I	DECK 2 AUTO STOP switch data input.
63	$\overline{\text{AUTO1}}$	I	DECK 1 AUTO STOP switch data input.
64	$\overline{\text{CAM2}}$	I	DECK 2 CAM switch data input.
65	$\overline{\text{REB}}$	I	DECK 2 side-B recordable switch data input. "L" = REC.
66	$\overline{\text{CST2}}$	I	DECK 2 cassette detect switch data input.
67	P1/I-AM-10K	I/O	FL segment P1 output / AM10K data input (U,LH only).
68	P2/I-AM. ST	I/O	FL segment P2 output / AM ST data input (Not used).
69	P3/I-LW	I/O	FL segment P3 output / LW mode data input (EZ only).
70	P4/I-SW	I/O	FL segment P4 output / SW mode data input (Not used).
71	P5/I-OIRT	I/O	FL segment P5 output / OIRT data input (Not used).
72	P6/I-RDS	I/O	FL segment P6 output / RDS data input (UPD780228GF-079-3BA only).
73	P7/I-R+1	I/O	FL segment P7 output / REV data input (Not used).
74	P8/I-DEMO	I/O	FL segment P8 output / DEMO data input (Not used).
75	P9/I-C-JACK	I/O	FL segment P9 output / C-JACK data input (LH only).
76	P10/I-ECO-OFF	I/O	FL segment P10 output / ECO-OFF data input (LH only).
77	P11/I-FM WIDE	I/O	FL segment P11 output / FM WIDE data input (Not used).
78	P12	O	FL segment P12 output.
79	VDD2	-	Power supply.
80	VLOAD	-	Power supply for FL display.
81 ~ 90	P13 ~ P22	O	FL segment P13 ~ P22 output.
91 ~ 100	G1 ~ G10	O	FL grid G1 ~ G10 output.

ADJUSTMENT – 1 <TUNER / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : U,LH: Set to AM 1710 kHz and check that the test point is 2160 kHz \pm 45 Hz.
EZ: Set to MW 1602 kHz and check that the test point is 2052 kHz \pm 45 Hz.
2. AM VT Check<U,LH>
Settings : • Test point : TP1 (VT)
Method : Set to AM 1710 kHz and check that the test point is less than 8.0 V. Then set to AM 530 kHz and check that the test point is more than 0.6 V.
3. MW VT Check<EZ>
Settings : • Test point : TP1 (VT)
Method : Set to MW 1602 kHz and check that the test point is less than 8.0 V. Then set to MW 531 kHz and check that the test point is more than 0.6 V.
4. LW VT Adjustment<EZ>
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144 kHz and adjust L942 so that the test point becomes 1.3 V \pm 0.05 V. Then set to LW 290 kHz and check that the test point is less than 8.0 V.
5. AM Tracking Adjustment<U,LH>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L951(1/3)
Method : Set to AM 1000 kHz and adjust L951(1/3) so that the test point becomes maximum.
6. MW Tracking Adjustment<EZ>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L951(1/3)
Method : Set to MW 999 kHz and adjust L951(1/3) so that the test point becomes maximum.
7. LW Tracking Adjustment<EZ>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L941 144 kHz
TC942 290 kHz
Method : Set up TC942 to center before adjustment.
The level at 144 kHz is adjusted to maximum by L941.
Then the level at 290 kHz is adjusted to maximum by TC942.
8. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L802 450 kHz
9. FM VT Check<U,LH>
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5 MHz check that the test point is more than 0.5 V. Then set to FM 108.0 MHz and check that the test point is 7.0 V \pm 0.1 V.
10. FM VT Check<EZ>
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5 MHz check that the test point is more than 0.5 V. Then set to FM 108.0 MHz and check that the test point is less than 8.0 V.
11. FM Tracking adjust<U,LH>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location: L903
Method : Set to FM 87.5 MHz and adjust L903 so that the test point is less than 9 dB μ V.
12. FM Tracking check<EZ>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
Method : Set to FM 98.0 MHz and check that the test point is less than 13 dB μ V.
13. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC)
TP8 (LCH), TP9 (RCH)
(MONO DISTORTION)
• Adjustment location : L801
• Input level : 60 dB μ V
Method : Set to FM 98.0 MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0 V \pm 500 mV with minimum distortion.
14. Output Level Check
<AM/MW>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 74 dB μ V
Method : Set to AM1000 kHz , MW 999 kHz and check that the test point is 50 mV \pm 3 dB.

<FM>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60 dB μ V
Method : Set to FM 98.0MHz and check that the test point is 150 mV \pm 3 dB.
15. FM Separation Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60 dB μ V
Method : U,LH: Set to FM 98.0 MHz and check that the test point is more than 25 dB.
EZ: Set to FM 83.0 MHz and check that the test point is more than 12 dB.

< FRONT SECTION >

16. μ -CON OSC Adjustment
Settings : • Test point : TP5 (KEY-SCAN)
TP6 (GND)
• Adjustment location : L501
Method : Insert AC plug while pressing of "POWER" key and "TUNER" function key.
Connect a frequency counter across TP5 and TP6.
Then adjust L501 so that the test point becomes 92.470 Hz \pm 0.092 Hz.
[Manual Reset]
Make up for RESET after adjustment.
* Reset is to press "POWER" key while pressing of "CLEAR (STOP)" key.

ADJUSTMENT – 2 <DECK>

< DECK SECTION >

1. 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 test point becomes $3000 \text{ Hz} \pm 5 \text{ Hz}$ (FWD) and $\text{FWD SPEED} \pm 45 \text{ Hz}$ (REV) with respect to forward speed.
2. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
 • Test point : TP8 (Lch), TP9 (Rch)
 • Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 8 kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.
3. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
 • Test point : TP8 (Lch), TP9 (Rch)
Method : Play back the 315 Hz and 10 kHz signals of the test tape and check that the output ratio of the 10 kHz signal with respect to that of the 315 Hz signal is $0 \text{ dB} \pm 3 \text{ dB}$.
4. 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 $110 \text{ mV} \pm 3 \text{ dB}$.
4. REC/PB Frequency Response Check (DECK 2)
Settings : • Test tape : TTA-602
 • Test point : TP8 (Lch), TP9 (Rch)
 • Input signal : 8 kHz/1 kHz (-20 VU / 0dB)
Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 10 mV. Record and play back the 1 kHz signals and check that the output is $0 \text{ dB} \pm 5 \text{ dB}$.
5. REC/PB Sensitivity Check (DECK 2)
Settings : • Test tape : TTA-602
 • Test point : TP8 (Lch), TP9 (Rch)
 • Input signal : 8 kHz (0VU / 0 dB)
Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 100 mV. Record and play back the 1 kHz signals and check that the output is $-1 \text{ dB} \pm 3.5 \text{ dB}$.

CD TEST MODE

1. How to Start the CD Test Mode

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

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC plug.

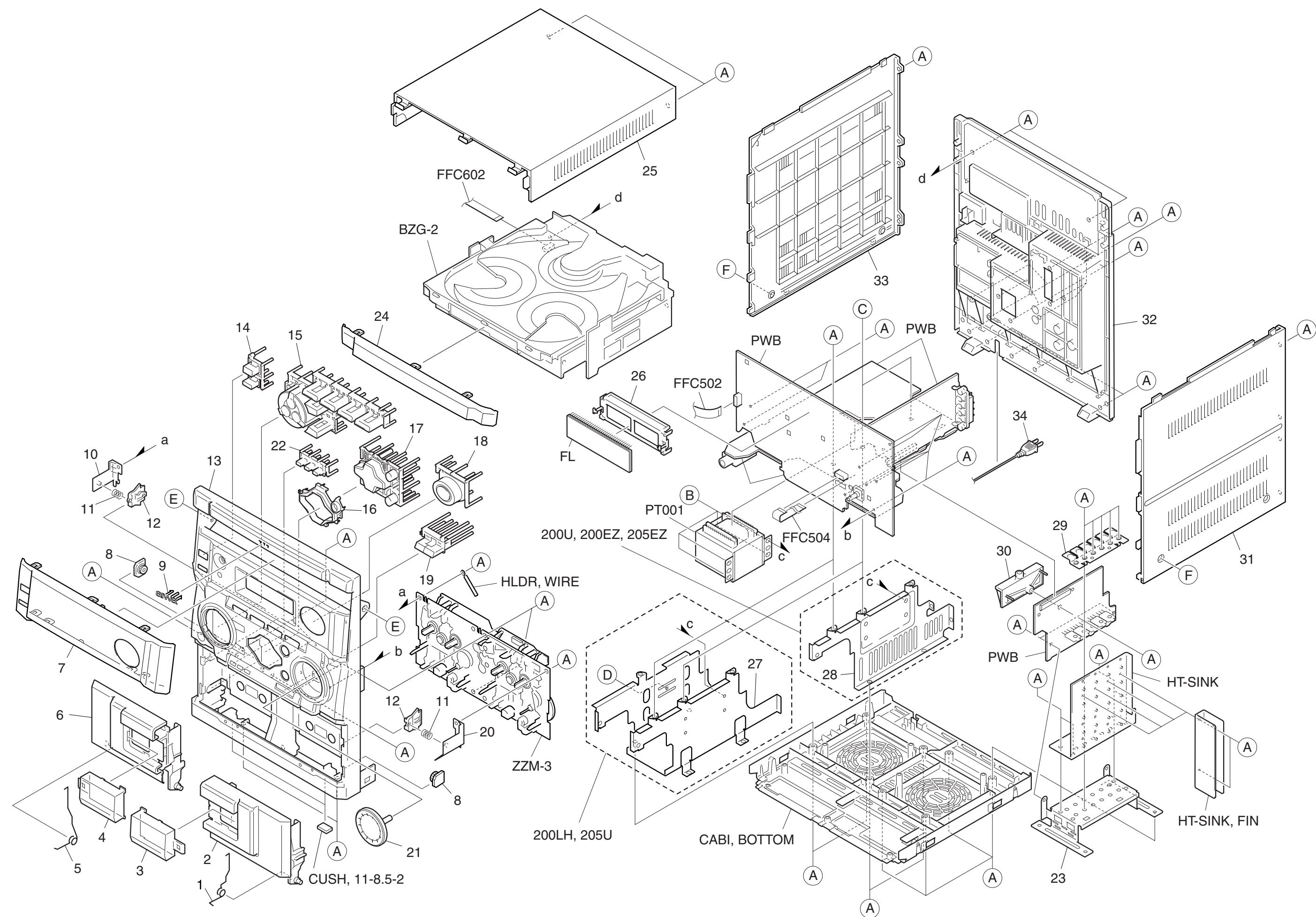
* When any key other than PLAY is pressed during play mode, the machine exits the test mode.

3. Function Descriptions and Application of the CD Test Mode

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

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

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

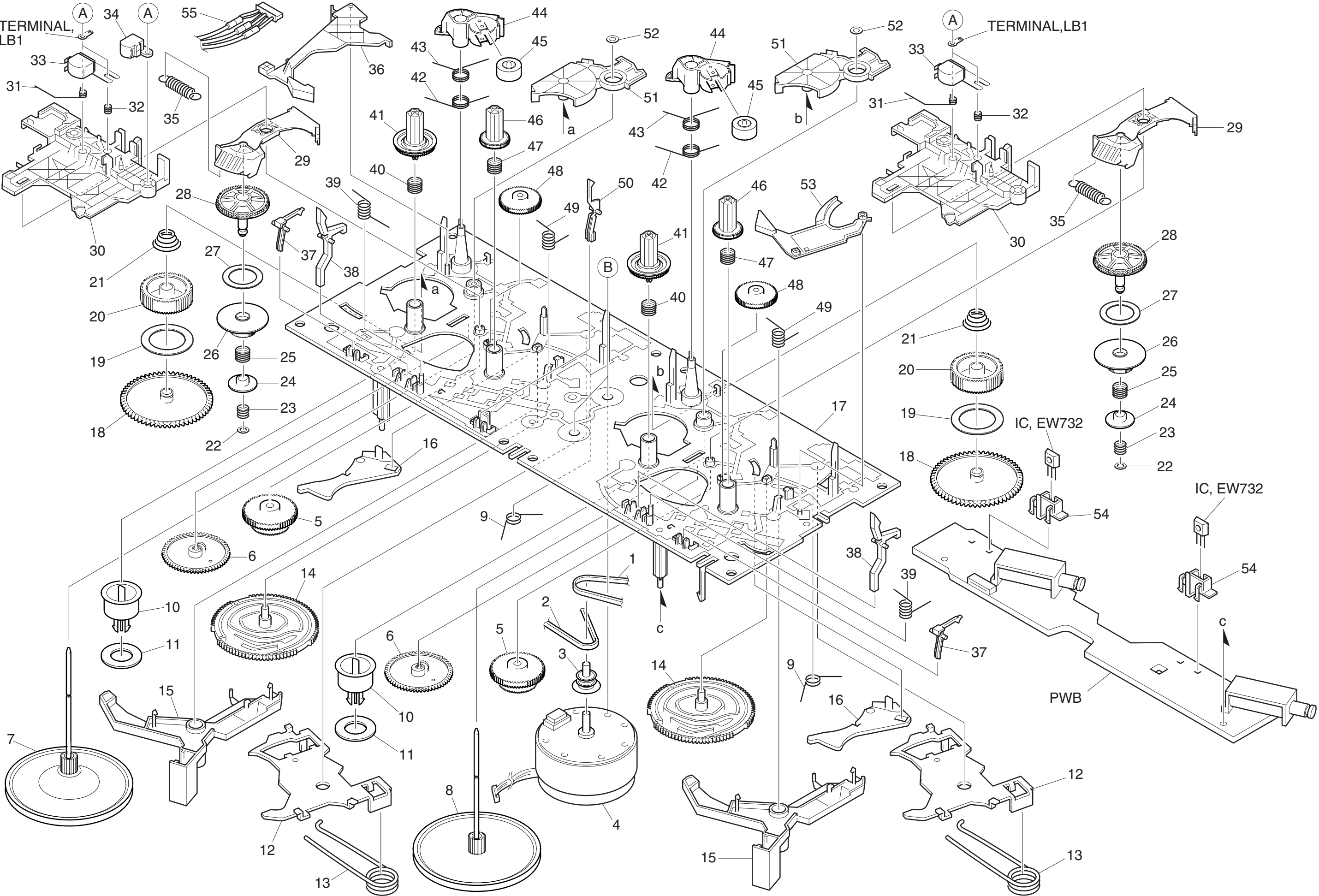


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF8-282-010		SPR-T, EJECT 2	27	8B-NFA-206-010		HLDR, PT T1 66-55/50<200LH, 205U>
2	8B-NFA-003-010		BOX, CASS 2	28	8B-NFA-204-010		HLDR, PT S 57-35 /66-30/25<EZ>
3	8B-NFA-010-010		WINDOW, CASS 2	28	8B-NFA-202-010		HLDR, PT S 57-40<200U>
4	8B-NFA-009-010		WINDOW, CASS 1	29	8B-NFA-218-010		HLDR, TR SUS
5	8A-NF8-281-010		SPR-T, EJECT 1	30	8B-NFA-203-010		HLDR, AMP
6	8B-NFA-002-010		BOX, CASS 1	31	8B-NFA-006-010		PANEL, RIGHT
7	8B-NFA-024-010		WINDOW, DISP H<200LH, 200EZ>	32	8B-NFA-054-010		CABI, REAR EZSC<200EZ>
7	8B-NFA-032-010		WINDOW, DISP HI205 U<205U>	32	8B-NFA-061-010		CABI, REAR HI205 USC<205U>
7	8B-NFA-023-010		WINDOW, DISP REZ<205EZ>	32	8B-NFA-052-010		CABI, REAR LHSC<200LH>
7	8B-NFA-008-010		WINDOW, DISP U<200U>	32	8B-NFA-058-010		CABI, REAR REZSC<205EZ>
8	8Z-NF6-210-010		DMPR, 150 N	32	8B-NFA-051-010		CABI, REAR USC<200U>
9	87-B00-002-010		BADGE, AIWA 30 ABS SIL	33	8B-NFA-005-010		PANEL, LEFT
10	87-NF4-216-010		HLDR, LOCK 1	34	87-A80-157-010		AC CORD ASSY, E BLK CC<200EZ, 205EZ>
11	86-NF9-224-010		SPR-C, LOCK	34	87-A80-092-010		AC CORD ASSY, E BLK SUN FAI<200LH>
12	82-NF5-229-010		PLATE, LOCK	34	87-A80-110-010		AC CORD ASSY, U SPT-2W<200U, 205U>
13	8B-NFA-026-010		CABI, FR REZ<205EZ>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
13	8B-NFA-001-010		CABI, FR U<EXCEPT 205EZ>	B	87-067-975-010		S-SCREW, IT+4-8
14	8B-NFA-015-010		KEY, POWER	C	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
15	8B-NFA-017-010		KEY, FUN	D	87-067-584-010		SCREW, BVT2+3-6<EXCEPT EZ, 200U>
16	8B-NFA-011-010		RING, OPE	E	87-721-096-410		QT2+3-10 GLD
17	8B-NFA-018-010		KEY, OPE	F	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
18	8B-NFA-016-010		KEY, GEQ				
19	8B-NFA-020-010		KEY, REC				
20	87-NF4-217-110		HLDR, LOCK 2				
21	8A-NFA-011-110		KNOB, RTRY VOL				
22	8B-NFA-019-010		KEY, RDS<205EZ>				
23	8B-NFA-222-010		HLDR, HT-SINK				
24	8B-NFA-007-010		PANEL, TRAY				
25	8B-NFA-004-010		PANEL, TOP				
26	82-NF7-210-110		GUIDE, FL (*)				

COLOR NAME TABLE

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



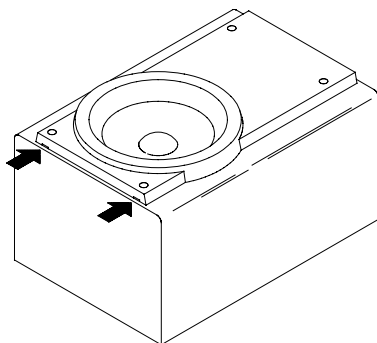
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT, MAIN M3	31	8Z-ZM3-233-010		SPR-T, BRG M3
2	8Z-ZM3-235-010		BELT, MAIN L	32	84-ZM2-227-310		SPR-C, AZIMUTH
3	8Z-ZM1-235-010		PULLEY, MOT	33	87-A90-403-110		HEAD, RPH MS15R
4	87-045-347-010		MOT, SHU2L 70	34	87-A90-404-010		HEAD, EH LE15B
5	8Z-ZM1-232-010		GEAR, IDL FF/REW	35	8Z-ZM3-239-010		SPR-E, FR
6	8Z-ZM3-244-010		GEAR, CAM TD20	36	8Z-ZM3-211-010		LEVER, EJECT R
7	8Z-ZM3-256-010		FLY-WHL ASSY, M3 R	37	8Z-ZM3-225-010		LEVER, STOP
8	8Z-ZM3-255-010		FLY-WHL ASSY, M3 L	38	8Z-ZM3-221-010		LEVER, CAS
9	8Z-ZM3-231-010		SPR-T, TRIG	39	8Z-ZM3-234-010		SPR-T, LVR CAS
10	8Z-ZM3-213-010		CLR, MG	40	8Z-ZM3-223-010		SPR-C, REEL R M3
11	8Z-ZM3-616-010		RING MAGNET 4	41	8Z-ZM1-225-110		GEAR, REEL R
12	8Z-ZM3-243-010		LEVER ASSY, HD UP	42	8Z-ZM3-240-010		SPR-T, T-UP M3
13	8Z-ZM3-238-010		SPR-T, HD UP	43	8Z-ZM3-237-010		SPR-T, PINCH M3
14	8Z-ZM3-219-010		GEAR, CAM M3	44	8Z-ZM3-215-010		LEVER, PINCH M3
15	8Z-ZM3-206-010		LEVER, TRIG	45	8Z-ZM1-261-110		ROLLER ASSY, PINCH
16	8Z-ZM3-209-010		LEVER, CAM FR	46	8Z-ZM1-226-010		GEAR, REEL L
17	8Z-ZM3-203-010		CHAS ASSY, M3	47	8Z-ZM3-222-010		SPR-C, REEL L M3
18	8Z-ZM1-228-010		GEAR, SLIP T-UP B	48	8Z-ZM3-251-010		GEAR, IDL REW M3
19	8Z-ZM1-265-010		FELT, T-UP	49	8Z-ZM3-236-010		SPR-T, PLAY M3
20	8Z-ZM1-227-010		GEAR, SLIP T-UP A	50	8Z-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	8B-NFA-626-010		CONN ASSY, 8P -RPB
26	8Z-ZM3-250-010		GEAR, SLIP F/R A M3	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
27	8Z-ZM1-269-010		FELT, FF/REW 2	B	8Z-ZM2-220-110		V+2.6 ZZM-2
28	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2				
29	8Z-ZM3-220-010		LEVER, FR M3				
30	8Z-ZM3-205-010		LEVER, PLAY M3				

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

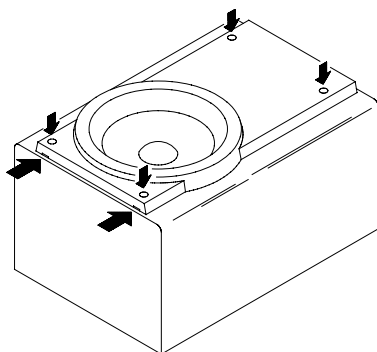
Type.1

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



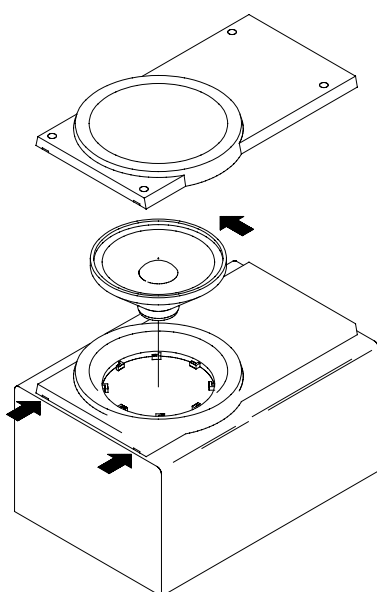
Type.2

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

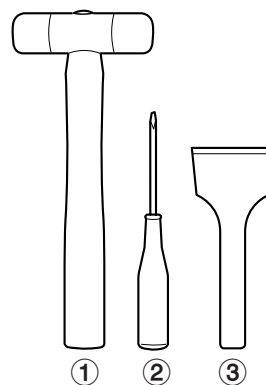


Type.3

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



Type.4



TOOLS

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

How to Remove the PANEL, FR

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

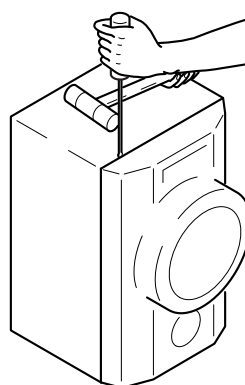


Fig-1

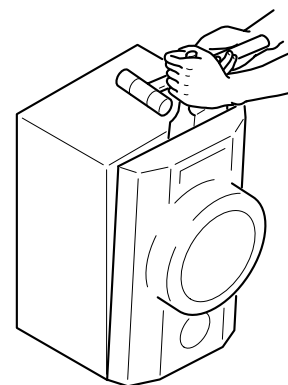


Fig-2

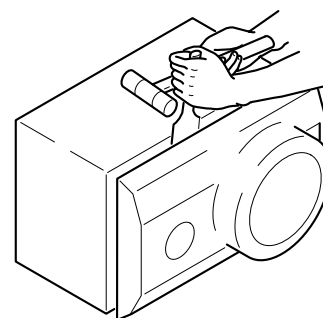


Fig-3

How to Attach the PANEL, FR

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

SPEAKER PARTS LIST

(SX-NAJ202<YUSN> / NSZ202<YSC> / NSZ205<YSC, YLSC> / NAJ205<YUSN>)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSL-001-010		PANER, FR
2	8B-NSL-006-010		GRILLE, FRAME ASSY<NSZ205YLSC, SNAJ205YUSN>
2	8B-NSL-020-010		GRILLE, FRAME ASSY 2WAY<NSZ202YSC, SNAJ202YUSN, NSZ205YSC>
3	8A-NSL-603-010		SPKR, CERAMIC
4	8B-NSL-019-010		SPKR, CERAMIC ASSY
5	8B-NSL-602-010		SPKR, W 120/25<NSZ205YLSC, SNAJ205YUSN>
5	8B-NSL-608-010		SPKR, W 120/16<NSZ205YSC, SNAJ202YUSN, NSZ202YSC>
6	8B-NSL-604-010		SPKR, TW 50<NSZ205YLSC, SNAJ205YUSN>

SPEAKER PARTS LIST (SX-R145<YUSN>)

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

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NFA-902-010		IB, LH (ESP) S<200LH>
1	8B-NFA-903-010		IB, U (ESF) S<U>
1	8B-NFA-906-010		IB, EZ (9L) S-RDS (205) <205EZ>
1	8B-NFA-916-010		IB, EZ (9L) S<200EZ>
2	87-043-115-010		FEEDER-ANT, FM<U, LH>
3	87-A90-118-010		ANT, WIRE FM (Z) <EZ>
4	87-A92-150-010		ANT, LOOP AM NO-CONT
△ 5	87-A91-017-010		PLUG, CONVERSION JT-0476<LH>
6	8B-NFC-702-010		RC UNIT, RC-AAS11 (VS)

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