

SERVICE MANUAL

CD-R/CD STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
BASIC CD MECHANISM : AZG-1 ZD3RMDM
BASIC CD-R MECHANISM : CRD-RA1

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
XR-C303RW	CX-NC303RW	SX-WNC303	RC-ZAS01

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-C303RW (LH,U), (S/M Code No. 09-004-433-4T1).
- If requiring information about the CD mechanism, see Service Manual of AZG-1 (S/M Code No. 09-001-335-3N8).

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 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>

Mid-high frequency amplifier

Power output*

U:
15 watts per channel, Min.
RMS at 8 ohms, from 200 Hz to 20 kHz,
with no more than 1% Total Harmonic
Distortion
LH:
Rated: 12 W + 12 W
(8 ohms, T.H.D. 1 %, 1kHz)
Reference: 15 W + 15 W
(8 ohms, T.H.D. 10 %, 1kHz)

Total harmonic distortion

U:
0.06 % (8 W, 1 kHz, 8 ohms, DIN
AUDIO)
LH:
0.1% (8 W, 1 kHz, 8 ohms, DIN
AUDIO)

Low frequency amplifier

Power output*

U:
45 watts per channel, Min.
RMS at 6 ohms, from 50 Hz to 200 Hz,
with no more than 1% Total Harmonic
Distortion
LH:
Rated: 37 W + 37 W
(6 ohms, T.H.D. 1 %, 130 Hz)
Reference: 45 W + 45 W
(6 ohms, T.H.D. 10 %, 130 Hz)

Total harmonic distortion

U:
0.06 % (20 W, 130 Hz, 6 ohms,
DIN AUDIO)
LH:
0.1% (20 W, 130Hz, 6 ohms,
DIN AUDIO)

* without connecting to the SURROUND SPEAKERS

Inputs

VIDEO/AUX: 500 mV

DIGITAL IN

Outputs

SPEAKERS HIGH FREQ:

accept speakers of 8 ohms

SPEAKERS LOW FREQ:

accept speakers of 6 ohms

SURROUND SPEAKERS:

accept speakers of 8 to 16 ohms

PHONES (stereo jack):

accepts headphones of 32 ohms
or more

CD DIGITAL OUT (OPTICAL) jack

Compact disc player section (3CD changer)

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)
Wow and flutter	Unmeasurable

Compact disc recorder section (CD-R/RW Player/ Recorder)

Laser	Semiconductor Laser ($\lambda = 785 \pm 5$ nm)
Recording Method	Track at Once
Sampling Frequency	44.1 kHz
Harmonic Distortion	Play 0.05% or less (1 kHz, 0 dB) Digital Record 0.05 % or less (1 kHz, 0 dB)

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/Playback head x 1, erase head x 1

General

Power requirements	U: 120 V AC, 60 Hz LH: 120 V/220 - 230 V/240 V AC switchable, 50/60 Hz
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Power consumption

U: 120 W
LH: 125 W

Power consumption in standby mode

If the power-economizing mode is
ECO OFF:

U: 30 W

LH: 28 W

If the power-economizing mode is
ECO ON or ECO AUTO: 0.9 W

Dimensions

(W x H x D)

Weight

260 x 326 x 370 mm
(10 ¹/₄ x 12 ⁷/₈ x 14 ⁵/₈ in.)
9.3 kg (20 lbs 8 oz.)

Speaker system SX-WNC303

Speaker system

3 way, built-in subwoofer
(magnetic shielded type)

Speaker units

Subwoofer:

160 mm (6 ³/₈ in.) cone type

Full range:

100 mm (4 in.) cone type

Super tweeter:

20 mm (¹³/₁₆ in.) ceramic type

Impedance

Sensitivity

Dimensions (W x H x D)

Weight

6 ohms/8 ohms

87 dB/W/m

240 x 324 x 270 mm

(9 ¹/₂ x 12 ⁷/₈ x 10 ³/₄ in.)

4.8 kg (10 lbs 9 oz.)

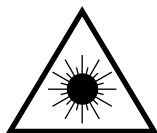
• Design and specifications are subject to change without notice.

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!

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

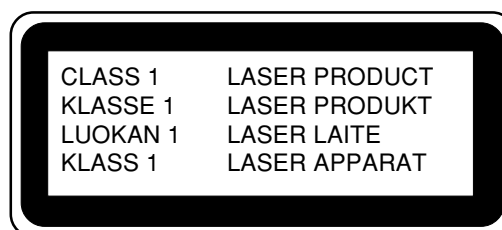
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



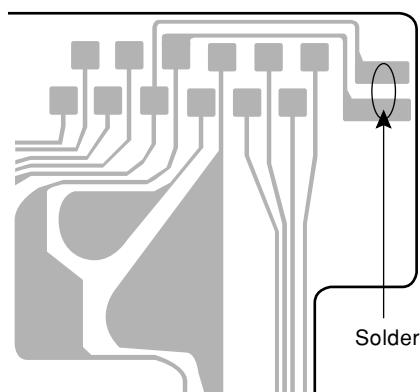
Precaution to replace Optical block

(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.

PICK-UP Assy P.C.B



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.

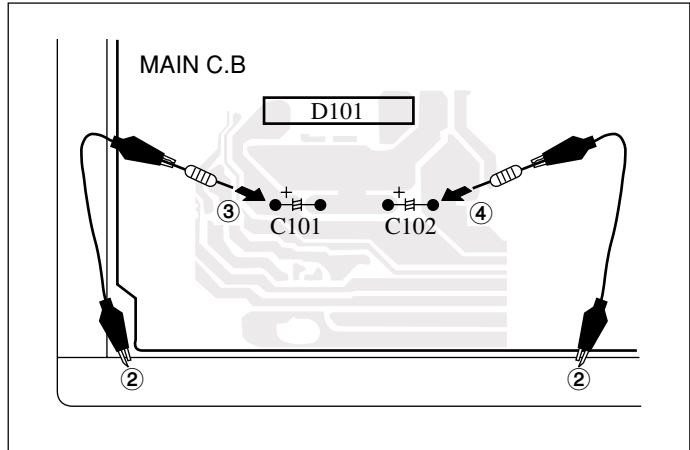


Fig-1

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.

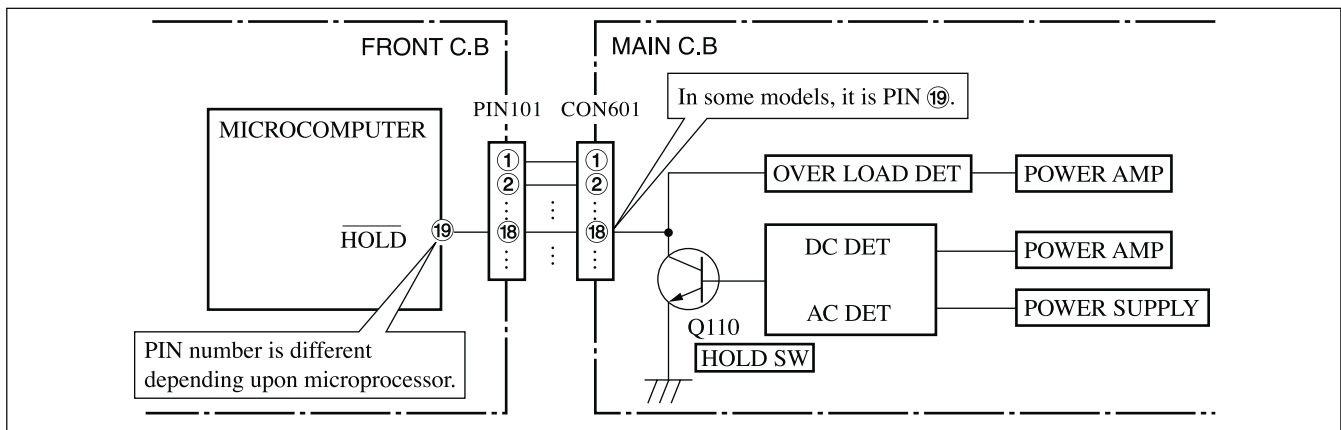


Fig-2-1

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.

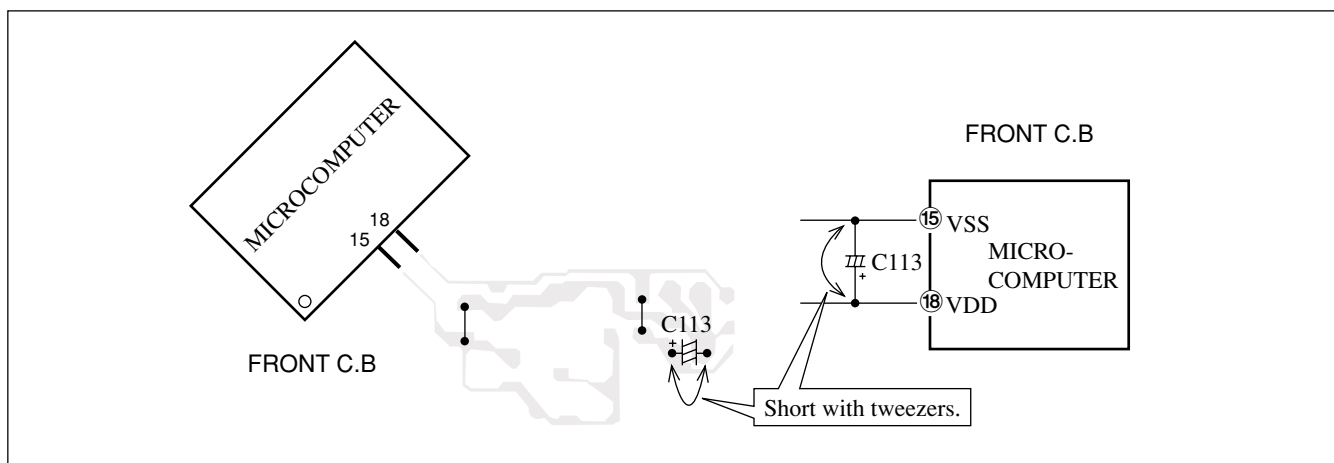


Fig-2-2

- 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.

DISASSEMBLY INSTRUCTIONS

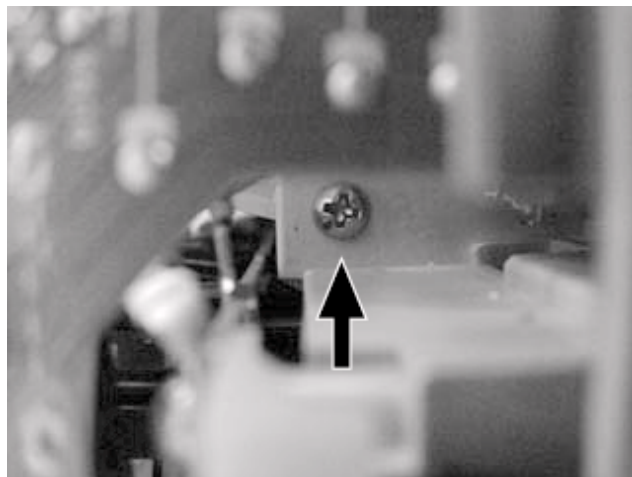
Disassembly Procedure of CD-R/RW Unit

* Remove CABI, TOP PANEL, SIDE L, R and AZG-1 in advance.

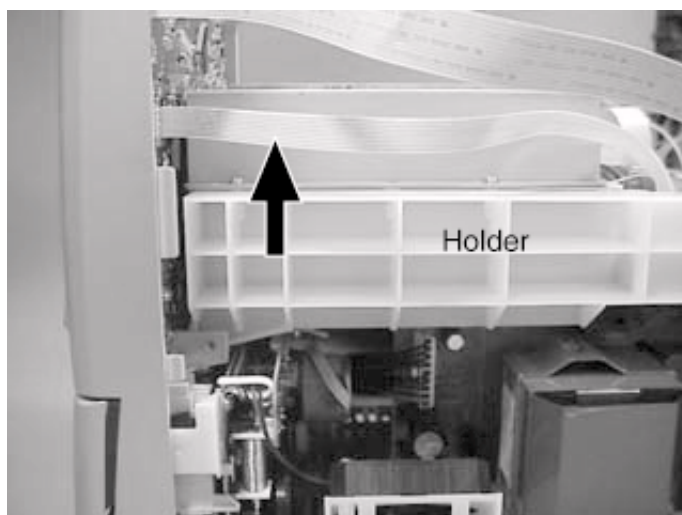
1. Open the tray of the CD-R/RW unit.

* If the tray does not open for some reason, open it as follows.

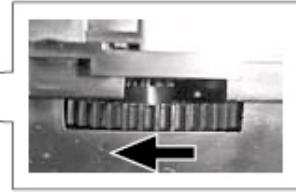
1) Remove the screw.



2) Lift up the entire holder.

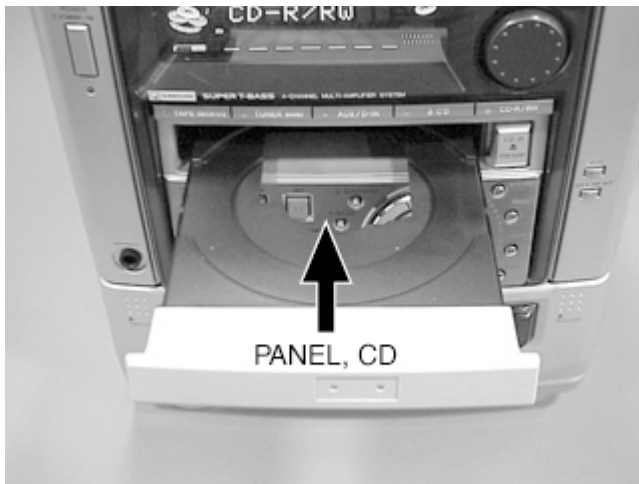


- 3) Insert a flat screwdriver into the clearance marked by the arrow and rotate the gear in the direction of the right arrow to open the tray.

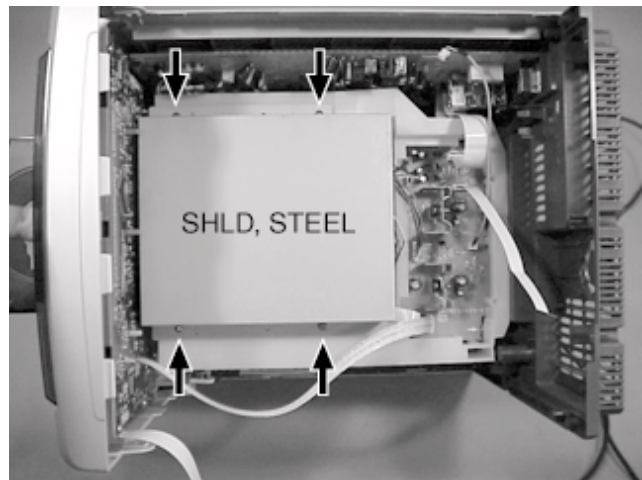


(Only the top of the gear is visible through the clearance.)

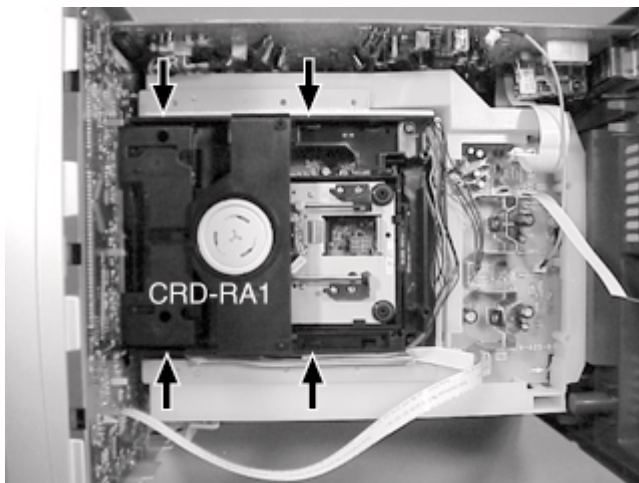
- 4) Lift up PANEL, CD in the direction of the arrow.



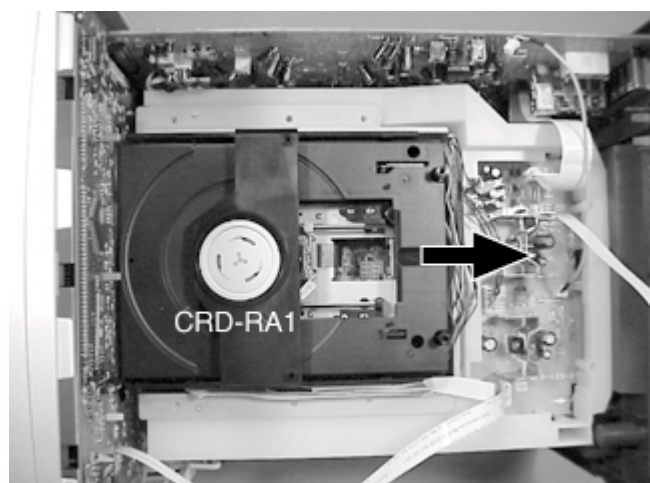
- 5) Remove the four screws and remove SHLD, STEEL.



- 6) Remove the four screws.



- 7) Attach the tray and put the mechanism in the workpiece in this state.



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				MAIN C.B			
	8A-DF8-616-010		C-IC,LC87F65C8AU	C1	87-012-369-080		C-CAP,S 0.047-50F
	87-A21-482-010		IC,RPM6938-H4	C2	87-012-369-080		C-CAP,S 0.047-50F
	87-A20-870-010		IC,GP1F37R	C3	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-021-040		C-IC,BU2099FV	C4	87-012-368-080		C-CAP,S 0.1-50 F
	87-070-289-040		IC,BU 2092F	C5	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-031-040		C-IC,BU4551BF	C6	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-416-040		C-IC,M61500FP	C9	87-016-658-000		CAP,E 4700-35 M SMG
	87-A21-023-040		C-IC,BA3835F	C10	87-A10-520-000		CAP,E 3300-35 M SMG
	87-070-127-110		IC,LC72131 D	C21	87-010-385-080		CAP, ELECT 220-25V
	87-A20-971-040		C-IC,SN74LV14APW	C22	87-010-385-080		CAP, ELECT 220-25V
	87-A20-913-010		IC,LA1837NL	C23	87-010-247-080		CAP, ELECT 100-50V
	87-020-454-010		IC,DN 6851	C24	87-010-247-080		CAP, ELECT 100-50V
	87-A21-419-040		C-IC,NJM14558MD-TE2	C25	87-010-430-080		CAP, ELECT 100-63
				C26	87-010-263-080		CAP, ELECT 100-10V
				C27	87-010-197-080		CAP, CHIP 0.01 DM
TRANSISTOR				C28	87-010-263-080		CAP,E 100-10 M 11L SME<U>
	87-026-245-080		TR,DTC114ES	C29	87-010-247-080		CAP, ELECT 100-50V
	87-026-609-080		TR,KTA1266GR	C30	87-010-381-080		CAP, ELECT 330-16V
	87-A30-198-080		TR,KTC3199GR	C31	87-010-235-080		CAP,E 470-16 SME
	89-213-702-010		TR,2SB1370E	C32	87-010-405-080		CAP, ELECT 10-50V
	87-026-610-080		TR,KTC3198GR	C33	87-010-405-080		CAP, ELECT 10-50V
	87-A30-076-080		C-TR,2SC3052F	C34	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-075-080		C-TR,2SA1235F	C35	87-010-198-080		CAP, CHIP 0.022
	87-A30-234-080		TR,CSC4115BC	C36	87-010-198-080		CAP, CHIP 0.022
	87-A30-073-080		C-TR,RT1N 141C	C40	87-010-112-080		CAP, ELECT 100-16V
	87-A30-186-010		FET,2SK3053	C50	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-074-080		C-TR,RT1P 141C	C51	87-010-180-080		C-CER 1500P
	87-026-210-080		CHIP-TR,DTC144EK	C61	87-010-260-080		CAP, ELECT 47-25V
	87-A30-190-080		TR,CC5551	C62	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-137-010		TR,2SD2494	C91	87-010-401-080		CAP, ELECT 1-50V
	87-A30-138-010		TR,2SB1625	C92	87-010-374-080		CAP, ELECT 47-10V
	87-A30-106-070		C-TR,CMBT5551	C93	87-010-380-080		CAP, ELECT 47-16V
	87-A30-107-070		C-TR,CMBT5401	C101	87-010-178-080		CHIP CAP 1000P
	87-A30-087-080		C-FET,2SK2158	C102	87-010-178-080		CHIP CAP 1000P
	87-A30-071-080		C-TR,RT1N 144C	C103	87-010-402-080		CAP, ELECT 2.2-50V
	87-A30-256-010		TR,2SD1933	C104	87-010-402-080		CAP, ELECT 2.2-50V
	87-A30-255-010		TR,2SB1342	C107	87-010-406-080		CAP, ELECT 22-50V
	87-A30-329-080		TR,CD1585BC	C108	87-010-406-080		CAP, ELECT 22-50V
	87-A30-318-080		TR,CSA952K	C109	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-091-080		FET,2SJ460	C110	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-090-080		FET,2SK2541	C111	87-010-260-080		CAP, ELECT 47-25V
	87-A30-104-080		C-TR,RT1N 441C	C112	87-010-260-080		CAP, ELECT 47-25V
	87-A30-085-040		C-TR,CSA1362GR	C113	87-A10-946-080		C-CAP,S 220P-100 J CH
	89-327-143-080		C-TR,2SC27140	C114	87-A10-946-080		C-CAP,S 220P-100 J CH
	87-A30-072-080		C-TR,RT1P 144C	C117	87-010-400-080		CAP, ELECT 0.47-50V
	87-026-463-080		TR,2SA933S	C118	87-010-400-080		CAP, ELECT 0.47-50V
				C121	87-010-178-080		CHIP CAP 1000P
				C122	87-010-178-080		CHIP CAP 1000P
				C123	87-010-176-080		C-CAP,S 680P-50 SL
				C124	87-010-176-080		C-CAP,S 680P-50 SL
DIODE				C125	87-012-368-080		C-CAP,S 0.1-50 F
	87-A40-736-080		DIODE,1N4148M(SEM)	C126	87-012-368-080		C-CAP,S 0.1-50 F
	87-A40-547-090		DIODE,D5SBA20	C127	87-012-368-080		C-CAP,S 0.1-50 F
	87-070-274-080		DIODE,1N4003 SEM	C128	87-012-368-080		C-CAP,S 0.1-50 F
	87-A40-777-080		ZENER,UZ30BSB	C129	87-010-191-080		C-CAP,S 0.015-50 F
	87-A40-548-090		DIODE,D3SBA20	C130	87-010-191-080		C-CAP,S 0.015-50 F
	87-A40-764-080		ZENER,UZ10BSC	C131	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-270-080		C-DIODE,MC2838	C132	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-269-080		C-DIODE,MC2836	C133	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-749-080		ZENER,UZ5.6BSB	C140	87-012-141-080		C-CAP,S 0.22-16 ZF
	87-A40-393-090		DIODE,1N5402GW (F20)	C203	87-010-178-080		C-CAP,S 1000P-50 KB
	87-A40-767-080		ZENER,UZ12BSC	C204	87-010-178-080		C-CAP,S 1000P-50 KB
	87-A40-757-080		ZENER,UZ7.5BSC	C209	87-010-403-080		CAP, ELECT 3.3-50V
	87-A40-752-080		ZENER,UZ6.2BSC	C210	87-010-403-080		CAP, ELECT 3.3-50V
	87-A40-739-080		ZENER,UZ2.7BSA	C211	87-010-181-080		CAP,CHIP S 1800P
	87-A40-802-080		ZENER,UZ5.1BSC	C212	87-010-181-080		CAP,CHIP S 1800P
	87-017-149-080		ZENER,HZS6A2L	C213	87-010-405-080		CAP, ELECT 10-50V
	87-A40-745-080		ZENER,UZ4.7BSA	C214	87-010-405-080		CAP, ELECT 10-50V
	87-A40-747-080		ZENER,UZ5.1BSB				
	87-A40-335-080		ZENER,MTZJ11C T-72				
	87-A40-313-080		C-DIODE,MC2840				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C215	87-010-322-080		C-CAP,S 100P-50 CH	C504	87-010-545-080		CAP,E 0.22-50 M 11L SME
C216	87-010-322-080		C-CAP,S 100P-50 CH	C505	87-010-545-080		CAP,E 0.22-50 M 11L SME
C217	87-010-260-080		CAP, ELECT 47-25V	C506	87-010-545-080		CAP,E 0.22-50 M 11L SME
C218	87-010-260-080		CAP, ELECT 47-25V	C507	87-010-196-080		CHIP CAPACITOR,0.1-25
C219	87-A10-946-080		C-CAP,S 220P-100 J CH	C508	87-010-196-080		CHIP CAPACITOR,0.1-25
C220	87-A10-946-080		C-CAP,S 220P-100 J CH	C509	87-A10-300-080		CAP,M 0.027-50J
C225	87-012-368-080		C-CAP,S 0.1-50 F	C510	87-A10-300-080		CAP,M 0.027-50J
C226	87-012-368-080		C-CAP,S 0.1-50 F	C515	87-A10-300-080		CAP,M 0.027-50J
C227	87-010-186-080		CAP,CHIP 4700P	C516	87-A10-300-080		CAP,M 0.027-50J
C228	87-010-186-080		CAP,CHIP 4700P	C605	87-010-179-080		CAP,CHIP S B1200P
C229	87-010-993-080		C-CAP,S 0.056-25 B	C606	87-010-179-080		CAP,CHIP S B1200P
C230	87-010-993-080		C-CAP,S 0.056-25 B	C609	87-010-213-080		C-CAP,S 0.015-50 B
C231	87-010-196-080		CHIP CAPACITOR,0.1-25	C610	87-010-213-080		C-CAP,S 0.015-50 B
C232	87-010-196-080		CHIP CAPACITOR,0.1-25	C611	87-010-545-080		CAP, ELECT 0.22-50V
C233	87-010-190-080		S CHIP F 0.01	C612	87-010-545-080		CAP, ELECT 0.22-50V
C234	87-010-190-080		S CHIP F 0.01	C613	87-010-545-080		CAP, ELECT 0.22-50V
C235	87-016-285-080		CAP,E 47-100SME	C614	87-010-545-080		CAP, ELECT 0.22-50V
C236	87-016-285-080		CAP,E 47-100SME	C615	87-010-154-080		CAP CHIP 10P
C237	87-010-322-080		C-CAP,S 100P-50 CH	C616	87-010-385-080		CAP, ELECT 220-25V
C238	87-010-322-080		C-CAP,S 100P-50 CH	C617	87-010-236-080		CAP,E 1000-10 SME
C239	87-010-196-080		CHIP CAPACITOR,0.1-25	C623	87-010-401-080		CAP, ELECT 1-50V
C240	87-010-407-080		CAP, ELECT 33-50V	C624	87-010-401-080		CAP, ELECT 1-50V
C243	87-010-407-080		CAP, ELECT 33-50V	C630	87-010-263-080		CAP, ELECT 100-10V
C300	87-010-197-080		CAP, CHIP 0.01 DM	C633	87-010-197-080		CAP, CHIP 0.01 DM
C301	87-010-179-080		C-CAP,S 1200P-50 KB	C634	87-010-197-080		CAP, CHIP 0.01 DM
C302	87-010-179-080		C-CAP,S 1200P-50 KB	C669	87-010-322-080		C-CAP,S 100P-50 CH
C303	87-010-179-080		C-CAP,S 1200P-50 KB	C670	87-010-322-080		C-CAP,S 100P-50 CH
C304	87-010-179-080		C-CAP,S 1200P-50 KB	C677	87-010-197-080		CAP, CHIP 0.01 DM
C307	87-010-263-080		CAP, ELECT 100-10V	C678	87-010-197-080		CAP, CHIP 0.01 DM
C308	87-010-263-080		CAP, ELECT 100-10V	C682	87-010-405-080		CAP, ELECT 10-50V
C309	87-010-318-080		C-CAP,S 47P-50 CH	C683	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-318-080		C-CAP,S 47P-50 CH	C701	87-010-381-080		CAP, ELECT 330-16V
C313	87-010-188-080		C-CAP,S 6800P-50 KB	C702	87-010-404-080		CAP, ELECT 4.7-50V
C314	87-010-188-080		C-CAP,S 6800P-50 KB	C703	87-010-197-080		CAP, CHIP 0.01 DM
C315	87-010-263-080		CAP, ELECT 100-10V	C704	87-010-197-080		CAP, CHIP 0.01 DM
C317	87-010-546-080		CAP, ELECT 0.33-50V	C709	87-010-322-080		C-CAP,S 100P-50 CH
C318	87-010-546-080		CAP, ELECT 0.33-50V	C710	87-010-196-080		CHIP CAPACITOR,0.1-25
C326	87-010-198-080		CAP, CHIP 0.022	C711	87-010-112-080		CAP, ELECT 100-16V
C327	87-012-368-080		C-CAP,S 0.1-50 F	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C360	87-010-401-080		CAP, ELECT 1-50V	C713	87-010-197-080		CAP, CHIP 0.01 DM
C371	87-010-178-080		CHIP CAP 1000P	C714	87-010-197-080		CAP, CHIP 0.01 DM
C372	87-010-197-080		CAP, CHIP 0.01 DM	C719	87-010-322-080		C-CAP,S 100P-50 CH
C373	87-010-178-080		CHIP CAP 1000P	C721	87-010-312-080		C-CAP,S 15P-50 CH
C374	87-010-197-080		CAP, CHIP 0.01 DM	C722	87-010-312-080		C-CAP,S 15P-50 CH
C399	87-012-140-080		CAP 470P	C723	87-010-178-080		CHIP CAP 1000P
C401	87-010-544-080		CAP, ELECT 0.1-50V	C725	87-010-178-080		CHIP CAP 1000P
C402	87-010-544-080		CAP, ELECT 0.1-50V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-321-080		CHIP CAPACITOR,82P(J)	C728	87-010-374-080		CAP, ELECT 47-10V
C404	87-010-321-080		CHIP CAPACITOR,82P(J)	C751	87-010-197-080		CAP, CHIP 0.01 DM
C405	87-010-197-080		CAP, CHIP 0.01 DM	C755	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-197-080		CAP, CHIP 0.01 DM	C756	87-010-197-080		CAP, CHIP 0.01 DM
C407	87-010-197-080		CAP, CHIP 0.01 DM	C757	87-010-318-080		C-CAP,S 47P-50 CH
C408	87-010-197-080		CAP, CHIP 0.01 DM	C758	87-010-149-080		C-CAP,S 5P-50 CH
C409	87-010-182-080		C-CAP,S 2200P-50 B	C759	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C410	87-010-182-080		C-CAP,S 2200P-50 B	C760	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C411	87-010-405-080		CAP, ELECT 10-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C412	87-010-405-080		CAP, ELECT 10-50V	C762	87-010-197-080		CAP, CHIP 0.01 DM
C451	87-010-198-080		CAP, CHIP 0.022	C763	87-010-194-080		CAP, CHIP 0.047
C452	87-010-382-080		CAP, ELECT 22-25V	C764	87-010-319-080		C-CAP,S 56P-50 J CH
C453	87-010-183-080		C-CAP,S 2700P-50 B	C765	87-010-197-080		CAP, CHIP 0.01 DM
C454	87-010-183-080		C-CAP,S 2700P-50 B	C766	87-010-197-080		CAP, CHIP 0.01 DM
C455	87-010-183-080		C-CAP,S 2700P-50 B	C767	87-010-405-080		CAP, E 10-50V
C456	87-010-197-080		CAP, CHIP 0.01 DM	C768	87-010-197-080		CAP, CHIP 0.01 DM
C458	87-010-178-080		CHIP CAP 1000P	C769	87-010-408-080		CAP, ELECT 47-50V
C459	87-010-175-080		CAP 560P	C770	87-015-821-080		C-CAP 0.047
C461	87-012-158-080		C-CAP,S 390P-50 CH	C771	87-010-407-080		CAP, ELECT 33-50V
C462	87-012-158-080		C-CAP,S 390P-50 CH	C772	87-010-194-080		CAP, CHIP 0.047
C501	87-010-401-080		CAP, ELECT 1-50V	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C502	87-010-401-080		CAP, ELECT 1-50V	C774	87-010-263-080		CAP, ELECT 100-10V
C503	87-010-545-080		CAP,E 0.22-50 M 11L SME	C775	87-010-404-080		CAP, ELECT 4.7-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C776	87-010-197-080		CAP, CHIP 0.01 DM	R165	87-A00-257-080		RES,M/F 0.15-1W J
C777	87-010-400-080		CAP, ELECT 0.47-50V	R166	87-A00-257-080		RES,M/F 0.15-1W J
C778	87-010-401-080		CAP, ELECT 1-50V	R231	87-A00-258-080		RES,M/F 0.22-1W J
C779	87-010-401-080		CAP, ELECT 1-50V	R232	87-A00-258-080		RES,M/F 0.22-1W J
C780	87-010-196-080		CHIP CAPACITOR,0.1-25	R233	87-A00-258-080		RES,M/F 0.22-1W J
C781	87-010-405-080		CAP, ELECT 10-50V	R234	87-A00-258-080		RES,M/F 0.22-1W J
C782	87-010-405-080		CAP, ELECT 10-50V	R265	87-A00-258-080		RES,M/F 0.22-1W J
C783	87-015-819-080		CAPACITOR,0.01	R266	87-A00-258-080		RES,M/F 0.22-1W J
C784	87-010-197-080		CAP, CHIP 0.01 DM	R392	87-012-349-080		C-CAP,S 1000P-50 CH
C785	87-010-403-080		CAP, ELECT 3.3-50V	R721	87-010-322-080		C-CAP,S 100P-50 CH
C786	87-010-403-080		CAP, ELECT 3.3-50V	R723	87-010-322-080		C-CAP,S 100P-50 CH
C789	87-010-179-080		CAP,CHIP S B1200P	SFR451	87-024-355-080		SFR,33K DIA6 H
C790	87-010-179-080		CAP,CHIP S B1200P	SFR452	87-024-355-080		SFR,33K DIA6 H
C791	87-010-405-080		CAP, ELECT 10-50V	TH101	87-A91-042-080		C-THMS,100K 55001
C793	87-010-177-080		C-CAP,S 820P-50 KB	TH102	87-A91-042-080		C-THMS,100K 55001
C794	87-010-406-080		CAP, ELECT 22-50	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C795	87-010-596-080		C-CAP,S 0.047-16 KB	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C796	87-010-403-080		CAP, ELECT 3.3-50V	X750	87-030-394-010		VIB,CER CSA3.6MGF228
C797	87-010-181-080		C-CAP,S 1800P-50 KB GRM				
C798	87-010-181-080		C-CAP,S 1800P-50 KB GRM				
C799	87-010-194-080		CAP, CHIP 0.047				
C812	87-010-197-080		CAP, CHIP 0.01 DM	C38	87-010-171-080		C-CAP,S 270P-50 SL
C813	87-010-197-080		CAP, CHIP 0.01 DM	C48	87-010-171-080		C-CAP,S 270P-50 SL
C814	87-010-197-080		CAP, CHIP 0.01 DM	C49	87-010-171-080		C-CAP,S 270P-50 SL
C815	87-010-197-080		CAP, CHIP 0.01 DM	C50	87-010-171-080		C-CAP,S 270P-50 SL
C816	87-010-197-080		CAP, CHIP 0.01 DM	C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C819	87-010-197-080		CAP, CHIP 0.01 DM	C143	87-010-196-080		CHIP CAPACITOR,0.1-25
C820	87-010-408-080		CAP, ELECT 47-50V	C144	87-010-196-080		CHIP CAPACITOR,0.1-25
C821	87-010-197-080		CAP, CHIP 0.01 DM	C147	87-015-681-040		E/CAP 10-16
C822	87-010-197-080		CAP, CHIP 0.01 DM	C153	87-010-493-040		CAP,E 0.47-50 GAS
C823	87-010-197-080		CAP, CHIP 0.01 DM	C154	87-A10-189-040		CAP,E 220-10
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	C155	87-010-312-080		C-CAP,S 15P-50 CH
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	C156	87-010-322-080		C-CAP,S 100P-50 CH
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C157	87-A10-189-040		CAP,E 220-10
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C158	87-012-155-080		C-CAP 180P-50CH
C961	87-010-152-080		C-CAP,S 8P-50 D CH GRM	C159	87-010-196-080		CHIP CAPACITOR,0.1-25
C981	87-015-785-080		CHIP CAPACITOR,0.1-25 ZF	C160	87-010-196-080		CHIP CAPACITOR,0.1-25
CF801	87-008-261-010		FLTR, CF SFE10.7MA5	C161	87-016-460-080		C-CAP,S 0.22-16 B
CF802	87-008-261-010		FLTR, CF SFE10.7MA5	C162	87-010-178-080		CHIP CAP 1000P
CN91	87-A60-619-010		CONN,2P V 2MM JMT	C165	87-012-157-080		C-CAP,S 330P-50 CH
CN92	87-A60-619-010		CONN,2P V 2MM JMT	C166	87-010-075-040		CAP,E 10-16 5L
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C171	87-010-194-080		CAP, CHIP 0.047
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C172	87-A10-797-040		CAP,E 47-35 M 5L SRM
CN601	87-099-719-010		CONN,30P TYK-B(X)	C173	87-010-981-040		CAP,E 22-35 5L SRE
CN603	87-099-014-010		CONN,12P 6216 V	C174	87-010-981-040		CAP,E 22-35 5L SRE
CNA1	8Z-NF8-669-110		CONN ASSY,9P VH	C180	87-010-194-080		CAP, CHIP 0.047
FB602	87-008-372-080		FILTER, EMI BL OIRNI	C183	87-010-197-080		CAP, CHIP 0.01 DM
FC603	88-912-121-110		FF-CABLE, 12P 1.25 120MM	C184	87-010-175-080		CAP 560P
FFE801	A8-6ZA-191-130		6ZA-1 FBENM	C185	87-010-322-080		C-CAP,S 100P-50 CH
J201	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C186	87-010-175-080		CAP 560P
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)	C187	87-010-322-080		C-CAP,S 100P-50 CH
J204	87-A60-886-010		JACK,PIN 4P R/W BLUE	C191	87-012-368-080		C-CAP,S 0.1-50 F
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C192	87-010-196-080		CHIP CAPACITOR,0.1-25
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C193	87-012-368-080		C-CAP,S 0.1-50 F
JW811	87-008-372-080		FILTER, EMI BL OIRNI	C315	87-010-196-080		CHIP CAPACITOR,0.1-25
L101	87-003-383-010		COIL,1UH-S	C401	87-010-560-040		CAP,E 10-50 GAS
L102	87-003-383-010		COIL,1UH-S	C402	87-010-196-080		CHIP CAPACITOR,0.1-25
L201	87-003-383-010		COIL,1UH-S	C403	87-010-318-080		C-CAP,S 47P-50 CH
L202	87-003-383-010		COIL,1UH-S	C404	87-010-318-080		C-CAP,S 47P-50 CH
L451	87-007-342-010		COIL,OSC 85K BIAS	C405	87-010-318-080		C-CAP,S 47P-50 CH
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C406	87-010-318-080		C-CAP,S 47P-50 CH
L772	87-A91-110-010		FLTR,PCFJZH-450(TOK)	C407	87-010-318-080		C-CAP,S 47P-50 CH
L781	87-005-847-080		COIL,2.2UH(CECS)	C408	87-010-318-080		C-CAP,S 47P-50 CH
L832	87-005-847-080		COIL,2.2UH(CECS)	C409	87-010-196-080		CHIP CAPACITOR,0.1-25
L981	8Z-ZA1-650-010		COIL,AM PACK4C (TOK)	C501	87-010-322-080		C-CAP,S 100P-50 CH
R020	87-A00-261-080		RES,M/F 0.56-1W J<U>	C502	87-010-322-080		C-CAP,S 100P-50 CH
R129	87-A00-257-080		RES,M/F 0.15-1W J	C503	87-010-322-080		C-CAP,S 100P-50 CH
R130	87-A00-257-080		RES,M/F 0.15-1W J	C701	87-010-196-080		CHIP CAPACITOR,0.1-25
R131	87-A00-257-080		RES,M/F 0.15-1W J	C702	87-012-158-080		C-CAP,S 390P-50 CH
R132	87-A00-257-080		RES,M/F 0.15-1W J	C703	87-010-196-080		CHIP CAPACITOR,0.1-25

FRONT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C704	87-010-196-080		CHIP CAPACITOR,0.1-25	S371	87-A91-024-180		SW,TACT KSH0611BT
C705	87-010-196-080		CHIP CAPACITOR,0.1-25	SW162	87-A91-591-010		SW,RTRY RE0121PVB25FINA24
C706	87-010-196-080		CHIP CAPACITOR,0.1-25	SW163	87-A91-397-010		SW,RTRY 121SL10-12T2
C707	87-010-196-080		CHIP CAPACITOR,0.1-25				
CN101	87-099-720-010		CONN,30P TYK-B(P)				
CN102	87-099-754-010		CONN,13P H 9604	INTERFACE C.B			
CN251	87-099-750-010		CONN,15P V 9604SC	C101	87-010-196-080		CHIP CAPACITOR,0.1-25
CN502	87-A60-059-010		CONN,08P V 9604S-08C	C103	87-010-196-080		CHIP CAPACITOR,0.1-25
FC102	88-913-271-110		FF-CABLE,13P 1.25	C104	87-010-370-080		CAP,E 330-6.3M SME
FC251	88-915-121-110		FF-CABLE,15P 1.25	C105	87-010-380-080		CAP, ELECT 47-16V
				C106	87-010-221-080		CAP, ELECT 470-10 M SME
FC502	88-908-281-110		FF-CABLE,8P 1.25 280MM				
FL101	8A-DF8-601-010		FL,HNA-13MM16T	C107	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
L151	87-A50-333-010		COIL,OSC 9.43MHZ	C121	87-010-196-080		CHIP CAPACITOR,0.1-25
LED401	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
LED402	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C124	87-010-370-080		CAP,E 330-6.3 SME
				C125	87-010-380-080		CAP, ELECT 47-16V
LED403	87-A40-619-040		LED,SLR-56PT-T31-W GRN				
LED404	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C126	87-010-371-080		CAP, ELECT 470-6.3 M SME
LED405	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C127	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
LED406	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C131	87-010-196-080		CHIP CAPACITOR,0.1-25
LED419	87-A40-589-040		LED,SLR-56VCT31 RED	C136	87-010-252-080		CAP,E 1000-6.3 M SME
				C137	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
LED421	87-A40-563-010		LED,SEL6515C-LF62 PGRN				
LED422	87-A40-563-010		LED,SEL6515C-LF62 PGRN	C138	87-010-263-080		CAP,E 100-10 M 11L SME
LED423	87-A40-563-010		LED,SEL6515C-LF62 PGRN	C152	87-010-178-080		CHIP CAP 1000P-50 K B
LED424	87-A40-563-010		LED,SEL6515C-LF62 PGRN	C201	87-010-402-080		CAP, ELECT 2.2-50V
LED425	87-A40-563-010		LED,SEL6515C-LF62 PGRN	C202	87-010-402-080		CAP, ELECT 2.2-50V
				C205	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
LED426	87-A40-563-010		LED,SEL6515C-LF62 PGRN				
LED441	87-A40-380-180		LED,SEL6510C-TP5 GRN	C401	87-010-178-080		CHIP CAP 1000P
LED442	87-A40-380-180		LED,SEL6510C-TP5 GRN	C402	87-010-178-080		CHIP CAP 1000P
LED443	87-A40-380-180		LED,SEL6510C-TP5 GRN	C403	87-010-196-080		CHIP CAPACITOR,0.1-25
LED444	87-A40-380-180		LED,SEL6510C-TP5 GRN	C404	87-010-196-080		CHIP CAPACITOR,0.1-25
				C411	87-012-140-080		CAP 470P
LED445	87-A40-380-180		LED,SEL6510C-TP5 GRN				
LED446	87-017-980-080		LED,SEL6210S	C421	87-010-196-080		CHIP CAPACITOR,0.1-25
LED447	87-017-980-080		LED,SEL6210S	CN291	87-A60-061-010		CONN,06P V 9604S-06C
LED448	87-017-980-080		LED,SEL6210S	CN401	87-A60-619-010		CONN,2P V 2MM JMT
LED449	87-017-980-080		LED,SEL6210S	CN901	87-A60-056-010		CONN,12P V 9604S-12C
				CN902	87-A60-059-010		CONN,08P V 9604S-08C
LED450	87-017-980-080		LED,SEL6210S				
S301	87-A91-024-180		SW,TACT KSH0611BT	CN903	87-A60-957-010		CONN,9P V TOC-B
S302	87-A91-024-180		SW,TACT KSH0611BT	CNA101	8A-DF8-633-010		CONN ASSY,6P RRG 360MM
S303	87-A91-024-180		SW,TACT KSH0611BT	CNA201	8A-DF8-634-010		CONN ASSY,3P AOUT 250MM
S304	87-A91-024-180		SW,TACT KSH0611BT	CNA301	8A-DF8-635-010		CONN ASSY,4P AIN 250MM
				CNA401	87-NB7-615-010		CONN ASSY,2P SHIELDPH/PH
S305	87-A91-024-180		SW,TACT KSH0611BT				
S306	87-A91-024-180		SW,TACT KSH0611BT	FB101	87-003-149-080		COIL,47UH J LALO2
S307	87-A91-024-180		SW,TACT KSH0611BT	FB105	87-008-372-080		FLTR,EMI BL01 RN1
S308	87-A91-024-180		SW,TACT KSH0611BT	FB106	87-008-372-080		FLTR,EMI BL01 RN1
S309	87-A91-024-180		SW,TACT KSH0611BT	FB107	87-008-372-080		FLTR,EMI BL01 RN1
				FB401	87-A50-189-080		C-COIL,S BLM21B272S
S310	87-A91-024-180		SW,TACT KSH0611BT				
S311	87-A91-024-180		SW,TACT KSH0611BT	FC291	88-906-171-110		FF-CABLE,6P 1.25
S321	87-A91-024-180		SW,TACT KSH0611BT	FC903	8A-DF8-631-010		FF-CABLE,9P 1.0 250MM
S322	87-A91-024-180		SW,TACT KSH0611BT	JW208	87-008-474-080		F-BEAD,BL02RN1-R62T2 EMI
S323	87-A91-024-180		SW,TACT KSH0611BT				
S324	87-A91-024-180		SW,TACT KSH0611BT	PT C.B			
S325	87-A91-024-180		SW,TACT KSH0611BT	C1	87-010-387-080		CAP,E 470-25 SME
S326	87-A91-024-180		SW,TACT KSH0611BT	C4	87-010-403-080		CAP, ELECT 3.3-50V
S327	87-A91-024-180		SW,TACT KSH0611BT	C8	87-010-917-000		CAP,E 3300-50 M SMG
S328	87-A91-024-180		SW,TACT KSH0611BT	C9	87-010-917-000		CAP,E 3300-50 M SMG
				C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
S329	87-A91-024-180		SW,TACT KSH0611BT				
S330	87-A91-024-180		SW,TACT KSH0611BT	C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
S331	87-A91-024-180		SW,TACT KSH0611BT	CN1	87-A60-851-010		CONN,9P V VH
S341	87-A91-024-180		SW,TACT KSH0611BT	F1	87-026-691-080		FUSE,10A 125V 251<U>
S342	87-A91-024-180		SW,TACT KSH0611BT	F2	87-A90-210-080		FUSE,7A 125V 251<U>
				F3	87-A90-210-080		FUSE,7A 125V 251<U>
S343	87-A91-024-180		SW,TACT KSH0611BT				
S344	87-A91-024-180		SW,TACT KSH0611BT	F4	87-A90-210-080		FUSE,7A 125V 251<U>
S345	87-A91-024-180		SW,TACT KSH0611BT	F5	87-A90-210-080		FUSE,7A 125V 251<U>
S361	87-A91-024-180		SW,TACT KSH0611BT	PR2	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V<LH>
S362	87-A91-024-180		SW,TACT KSH0611BT	PR3	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V<LH>
				PR4	87-A90-195-080		PROTECTOR 7A 491 SERIES 60V<LH>
S366	87-A91-024-180		SW,TACT KSH0611BT				
S367	87-A91-024-180		SW,TACT KSH0611BT	PR5	87-A90-195-080		PROTECTOR 7A 491 SERIES 60V<LH>
S368	87-A91-024-180		SW,TACT KSH0611BT	PT1	8A-DF8-606-010		PT, ADF8-H<LH>
S369	87-A91-024-180		SW,TACT KSH0611BT	PT1	8A-DF8-607-010		PT, ADF8-U<U>
S370	87-A91-024-180		SW,TACT KSH0611BT				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
△ PT2	8A-NF8-673-010		PT, SUB ANF-8 (H) KAMI<LH>	HEAD-1	C.B		
△ PT2	8A-NF8-661-010		PT, SUB ANF-8 (U) <U>				
△ RY1	87-A91-418-010		RELAY, AC12V G5PA-1-M<U>		85-ZM3-602-010		PWB, FLEX A
△ RY2	87-A91-339-010		RELAY, AC DC12V G5PA-2<LH>	CON301	87-NF6-615-010		CONN ASSY, 3P PB
△ S1	87-A90-165-010		SW, SL 1-2-3 SWS2301<LH>				
△ T1	87-A60-317-010		TERMINAL, 1P MSC	HEAD-2	C.B		
△ T2	87-A60-317-010		TERMINAL, 1P MSC				

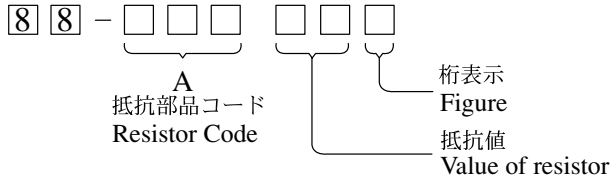
DECK C.B

CON105	87-099-756-010	CONN, 15P 9604S F
SFR1	87-024-581-010	SFR, 3.3K DIA 6H
SOL1	82-ZM1-618-410	SOL ASSY, 27
SOL2	82-ZM1-618-410	SOL ASSY, 27
SW1	87-A90-248-010	SW, MICRO ESE11SH2CXQ
SW2	87-A90-248-010	SW, MICRO ESE11SH2CXQ
SW3	87-A90-248-010	SW, MICRO ESE11SH2CXQ
SW4	87-036-110-010	SW, MICRO SPPB62
SW5	87-036-110-010	SW, MICRO SPPB62
SW6	87-036-110-010	SW, MICRO SPPB62
SW8	87-A90-248-010	SW, MICRO ESE11SH2CXQ
SW9	87-A90-248-010	SW, MICRO ESE11SH2CXQ
W1	82-ZM3-601-010	RBN-CORD, 4P-75

○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

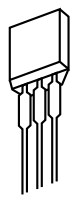
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



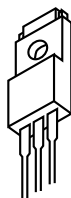
E C B

CSC4115
KTA1266
KTC3198
CSA952
CD1585



E C B

DTC114ES
KTC3199
2SA933



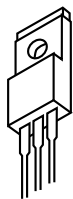
B C E

2SB1370



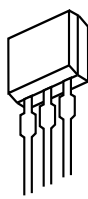
G D S

2SK3053



B C E

2SD2494
2SB1625
2SD1933
2SB1342



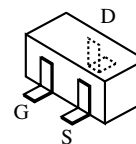
S D G

2SJ460
2SK2541

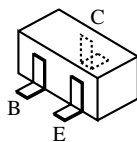


E C B

CC5551

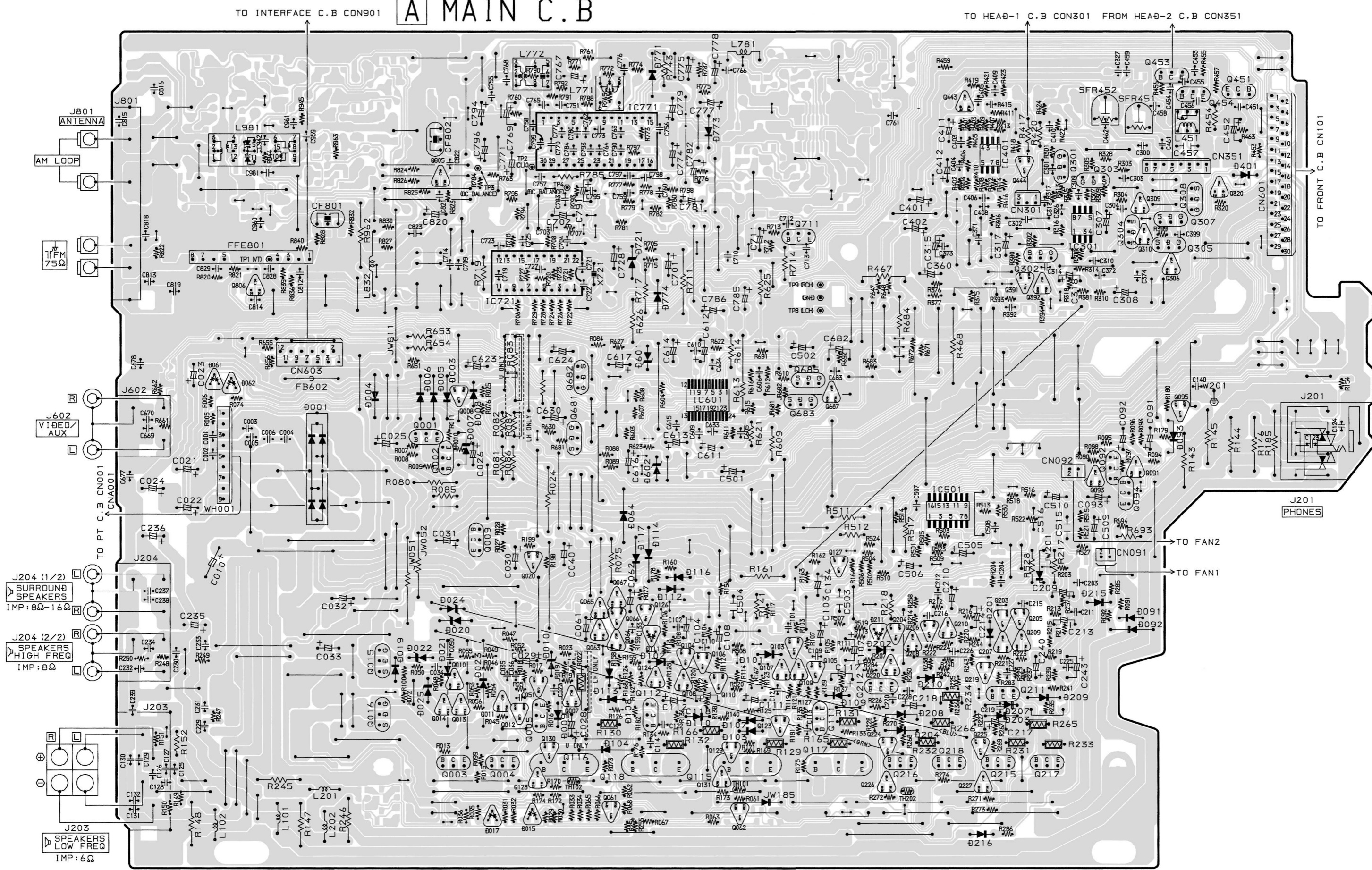


2SK2158

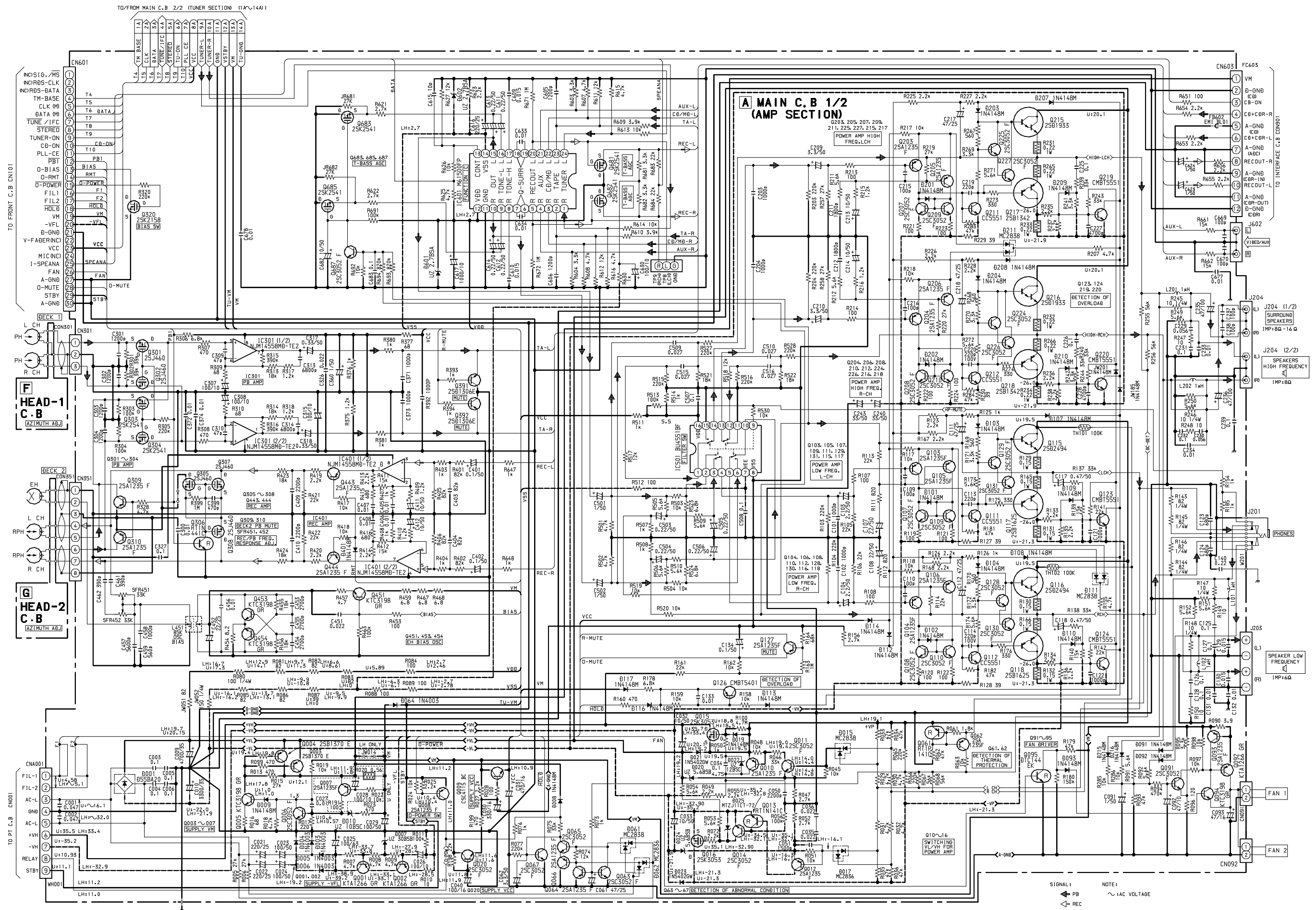


2SA1235	RT1P144C
2SC2714	RT1N141C
2SC3052	RT1N441C
DTC144EK	CMBT5551
RT1N144C	CMBT5401
RT1P141C	CSA1362

A MAIN C.B

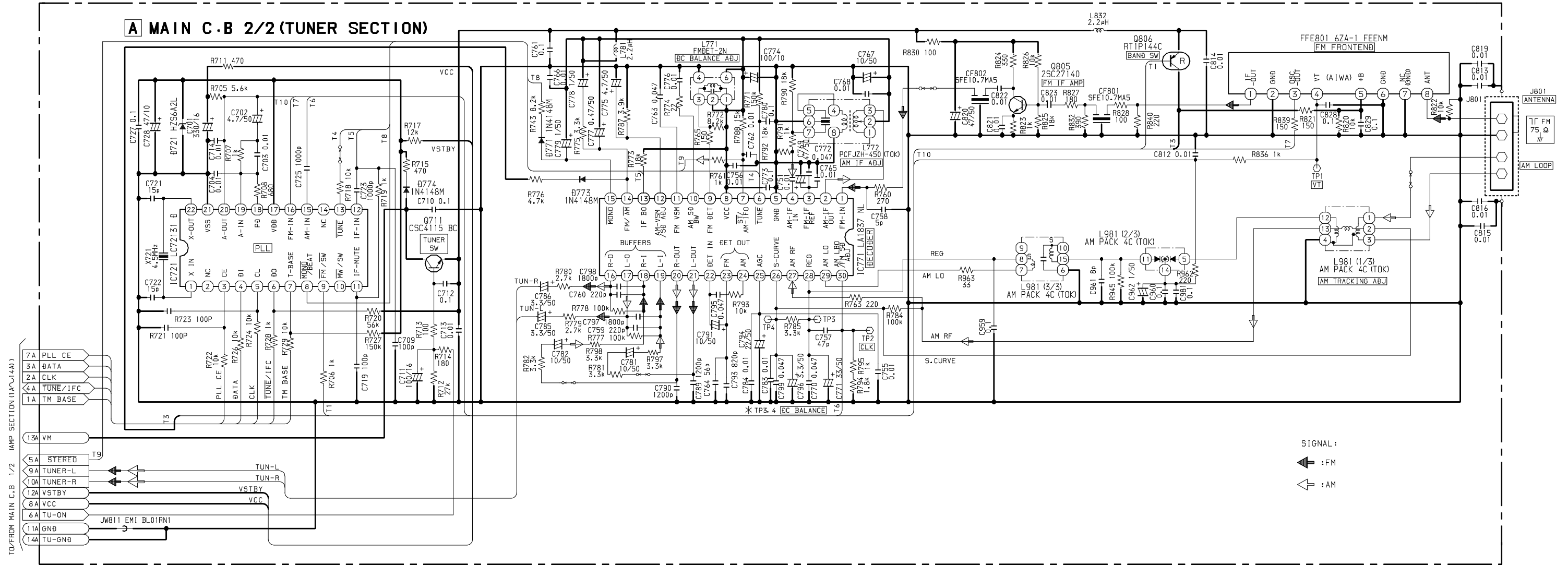


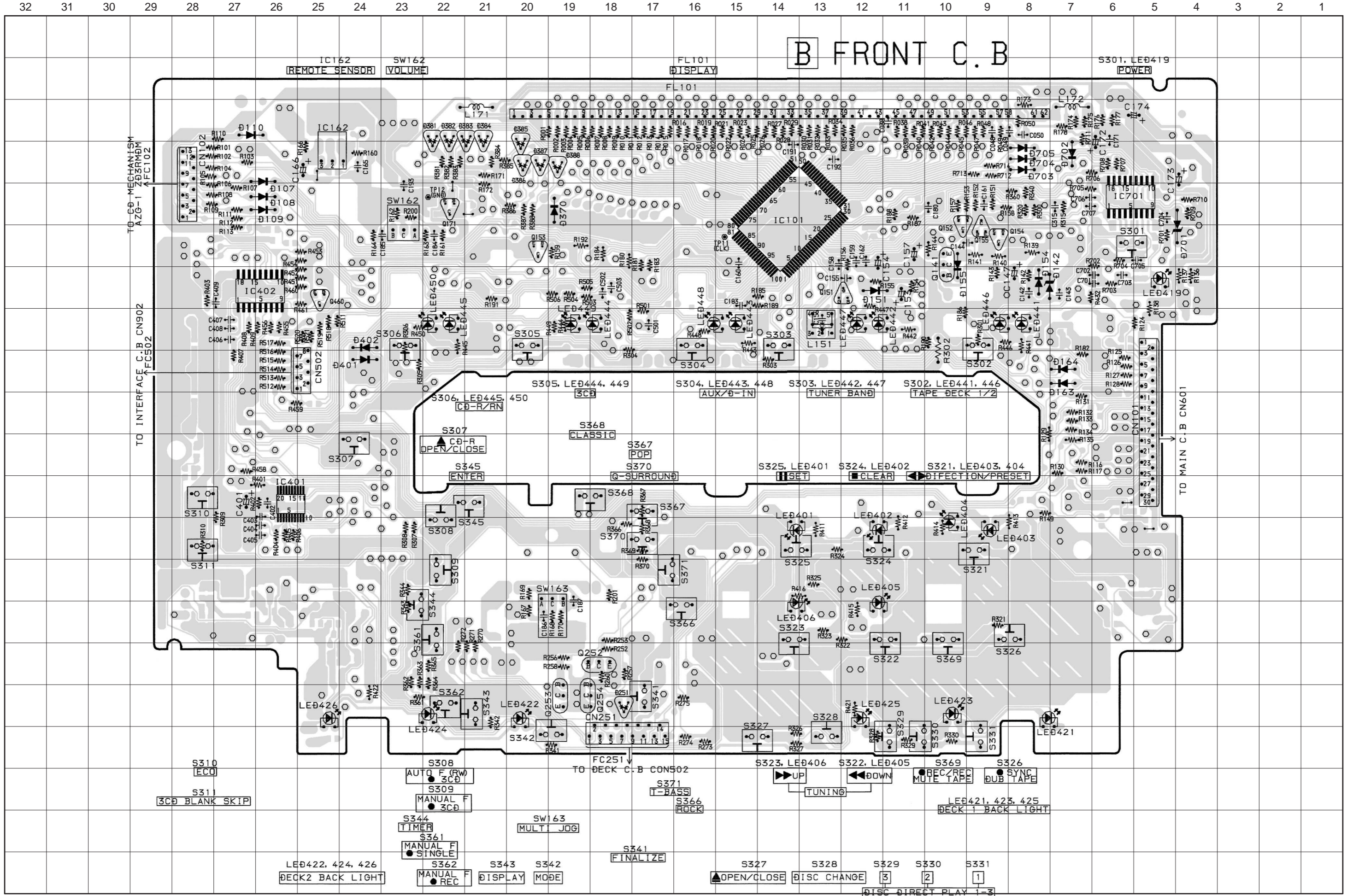
SCHEMATIC DIAGRAM - 1 (MAIN 1/2 : AMP / HEAD-1 / HEAD-2)

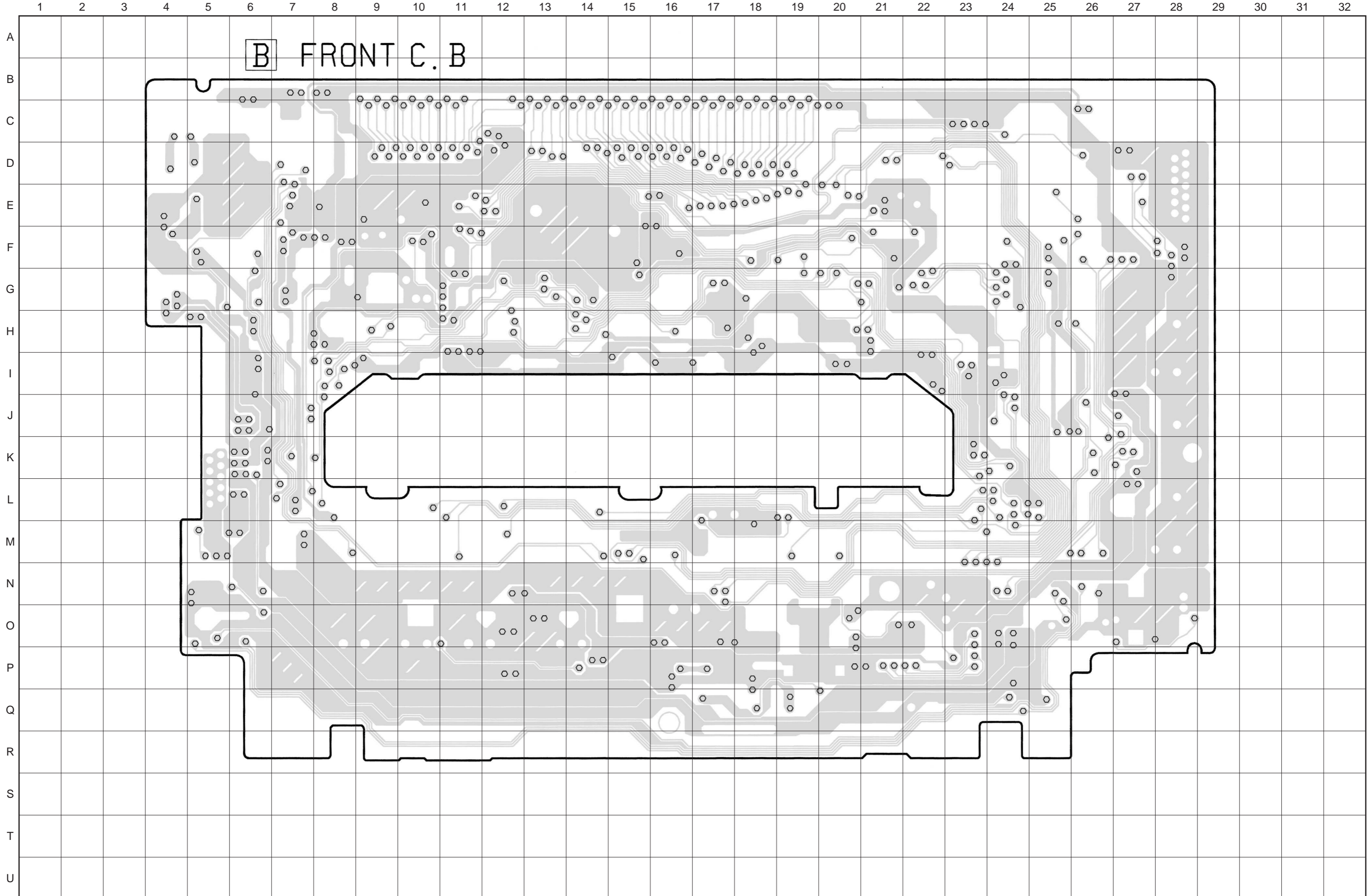


SIGNAL: PB
NOTE: ~: AC VOLTAGE
REC

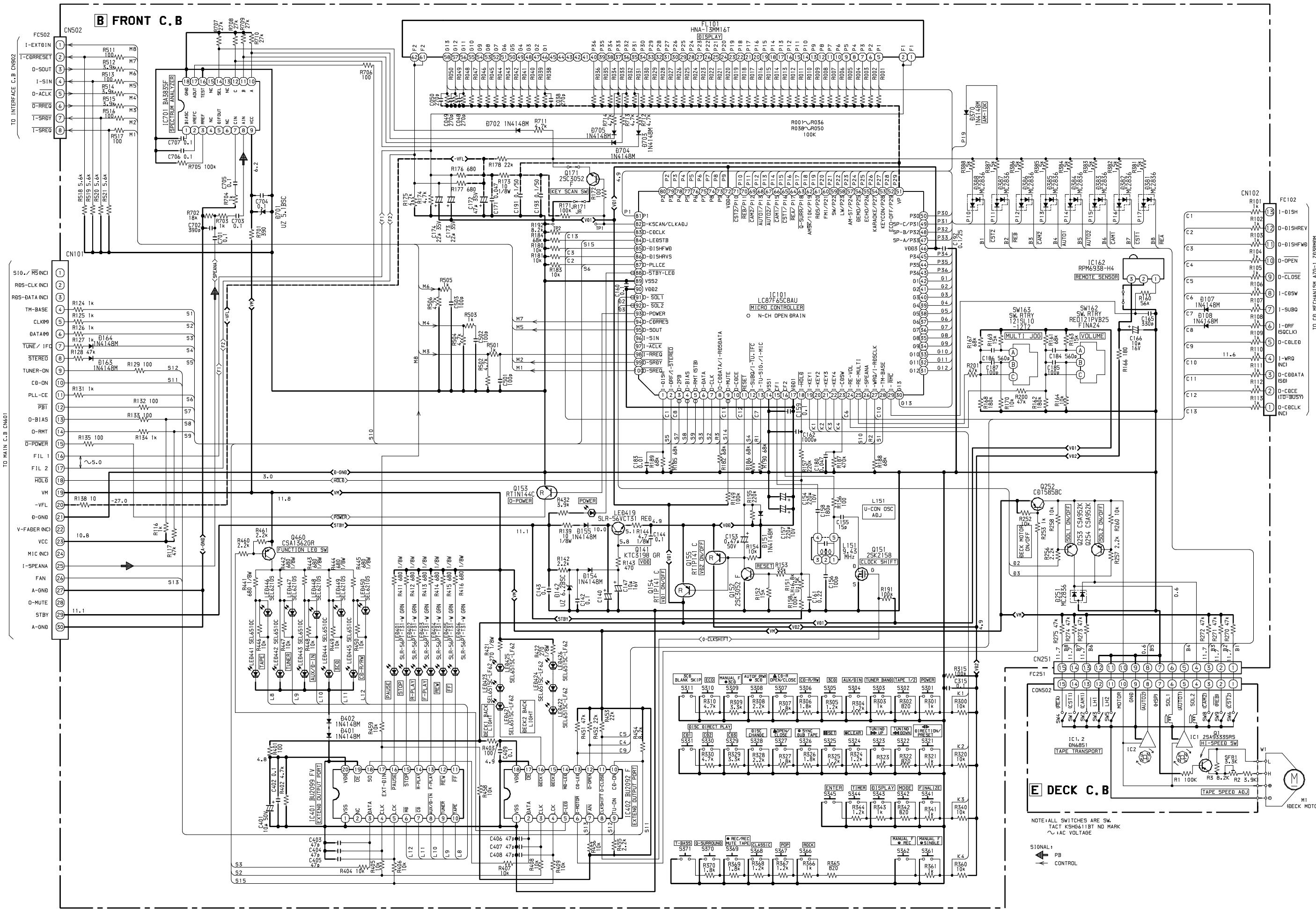
SCHEMATIC DIAGRAM - 2 (MAIN 2/2 : TUNER)





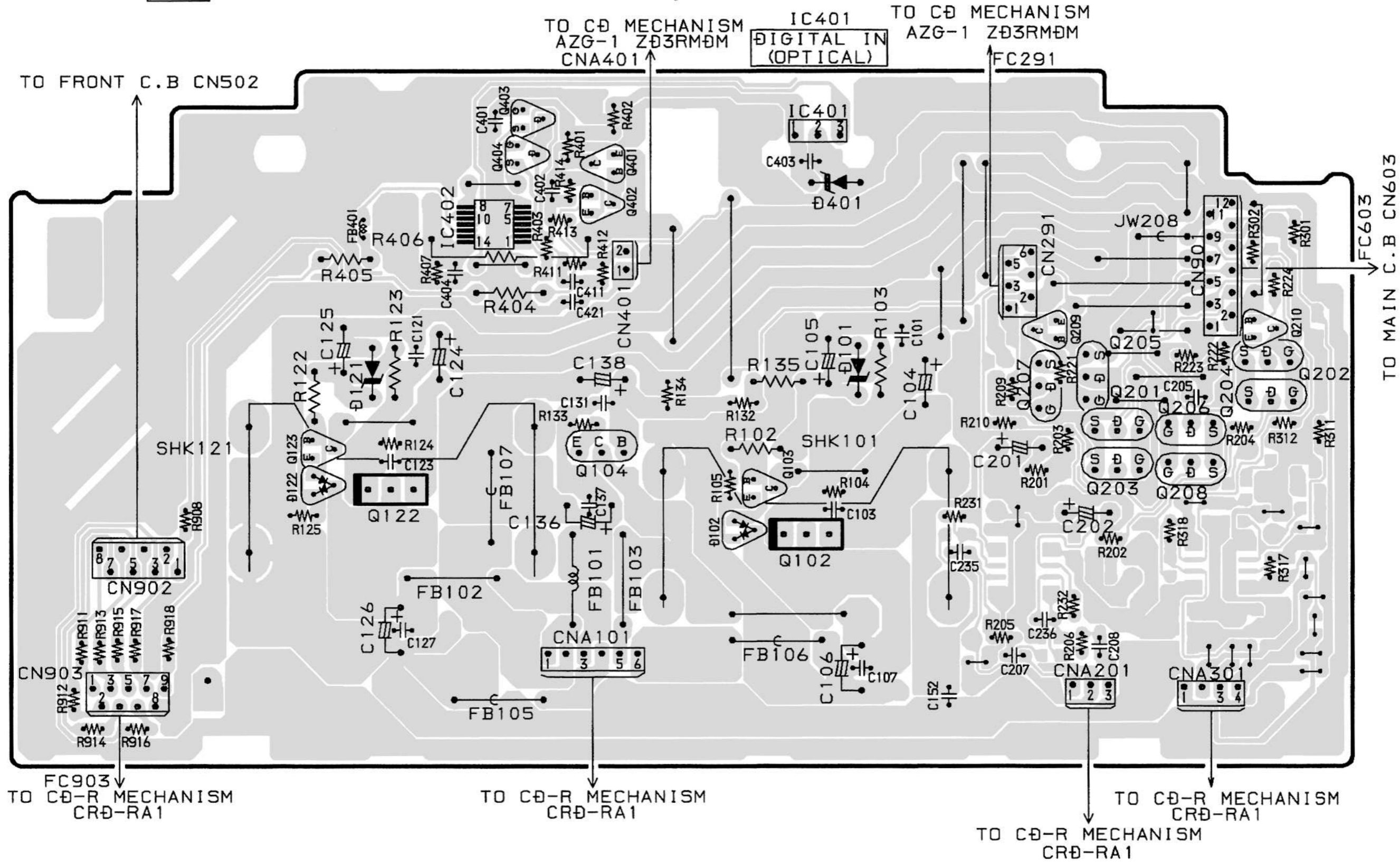


SCHEMATIC DIAGRAM - 3 (FRONT / DECK)



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
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C INTERFACE C.B



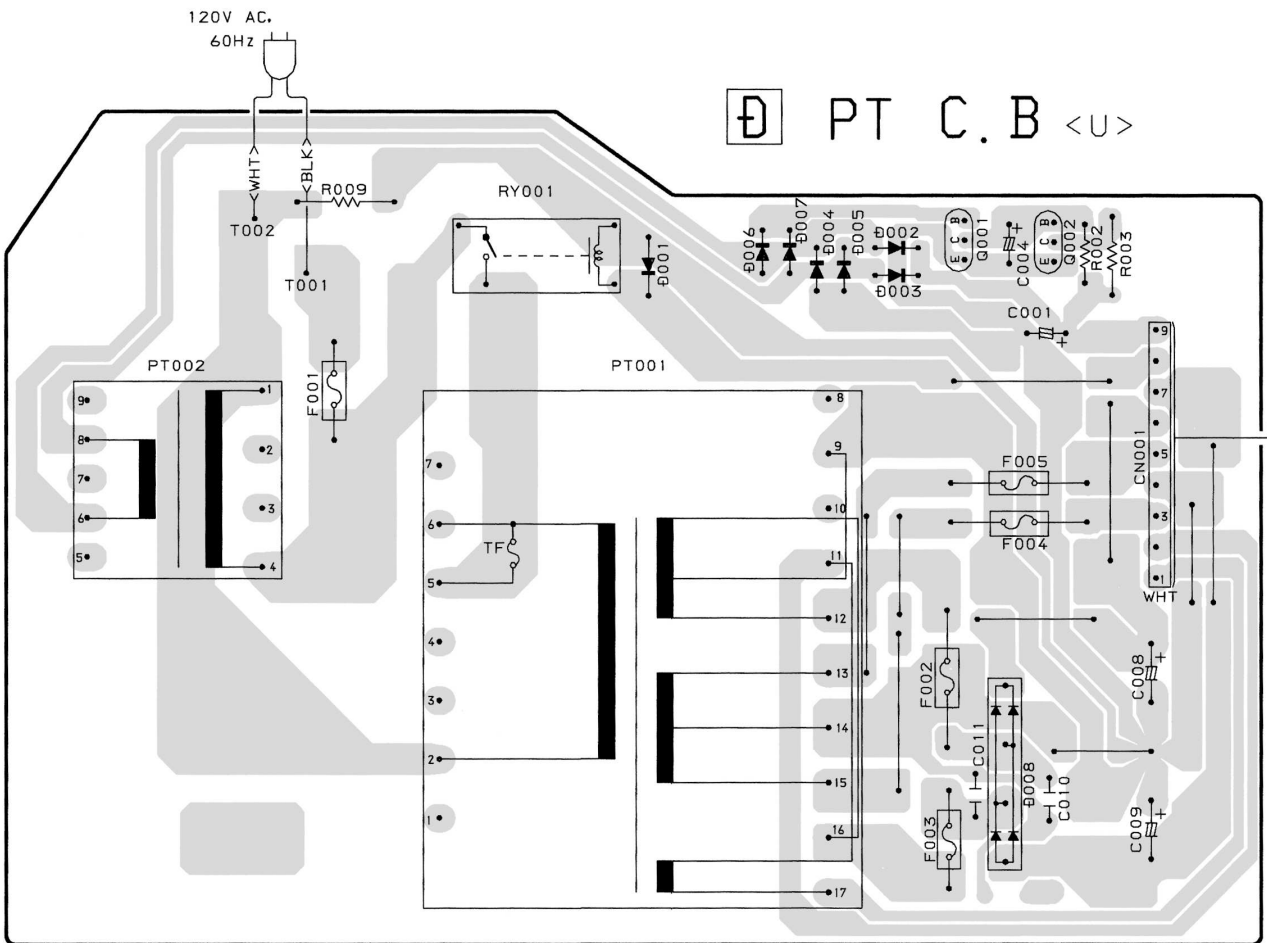
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WIRING - 4 (U : PT)

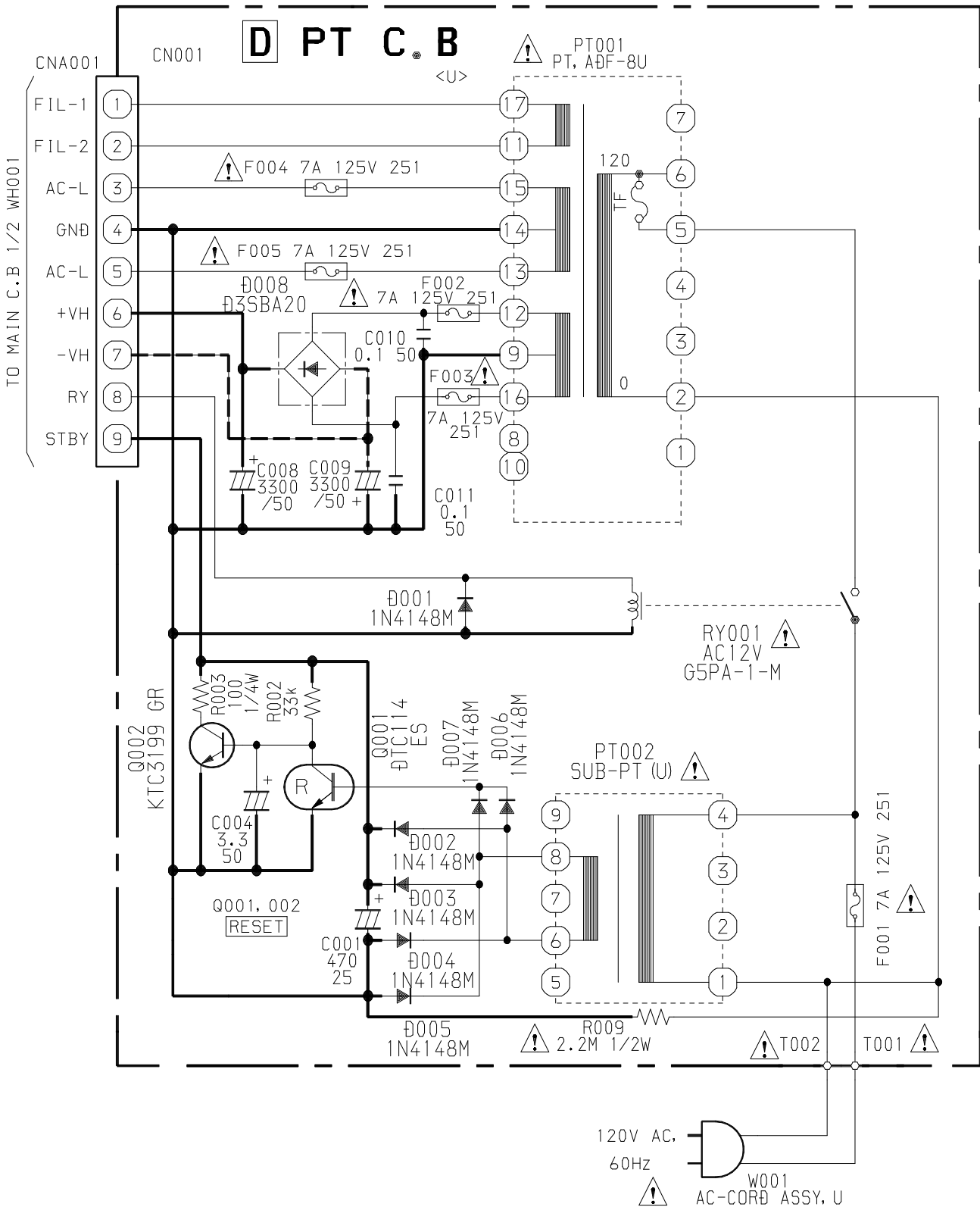
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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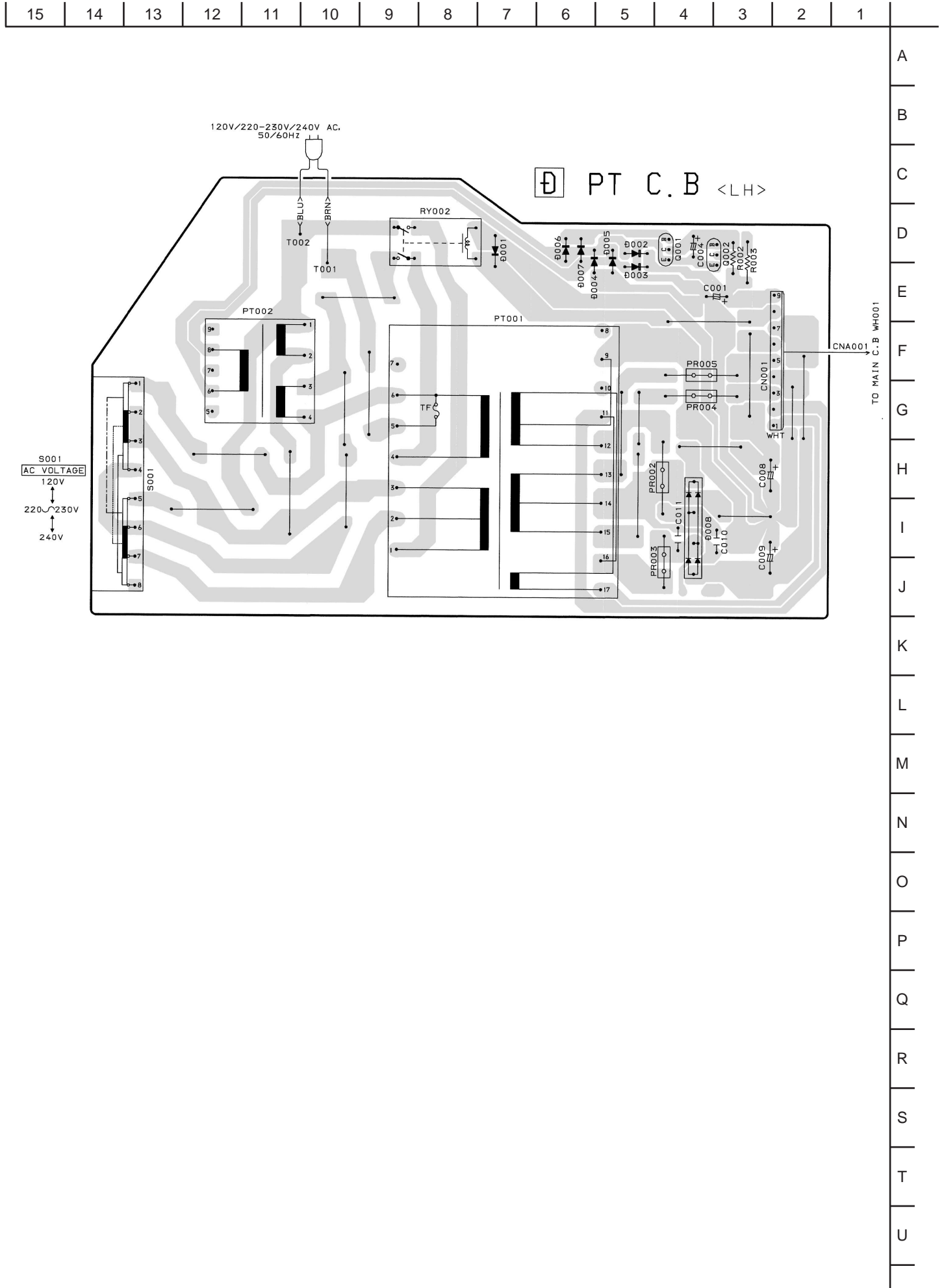
⊠ PT C.B <U>



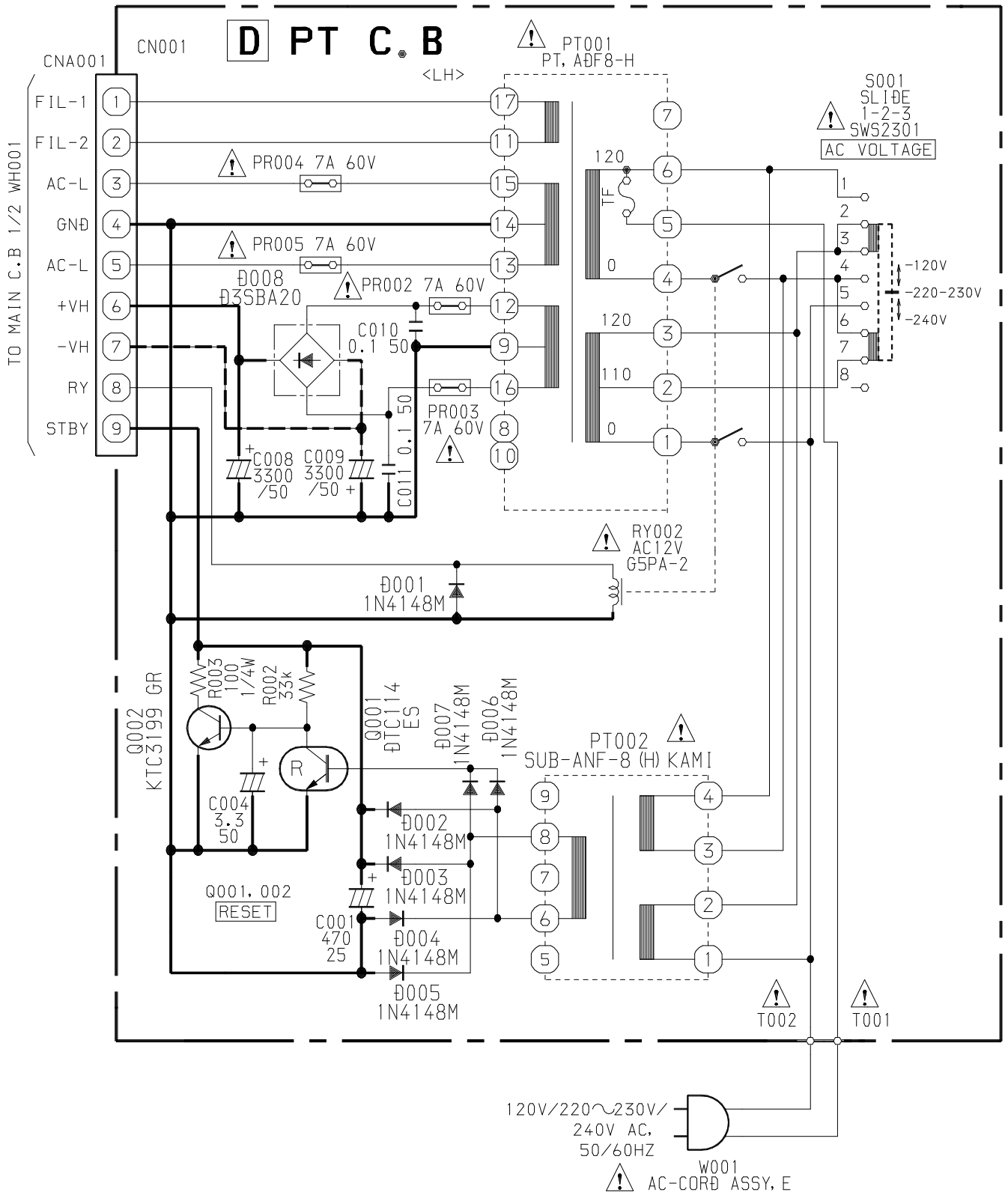
SCHEMATIC DIAGRAM - 5 (U : PT)



WIRING - 5 (LH : PT)



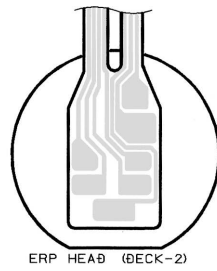
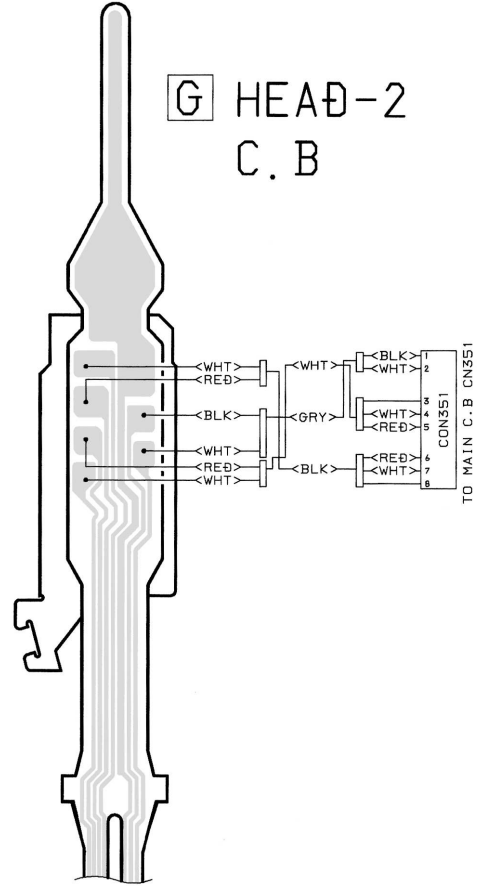
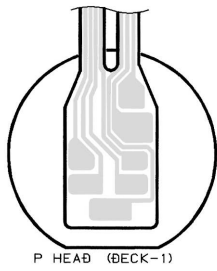
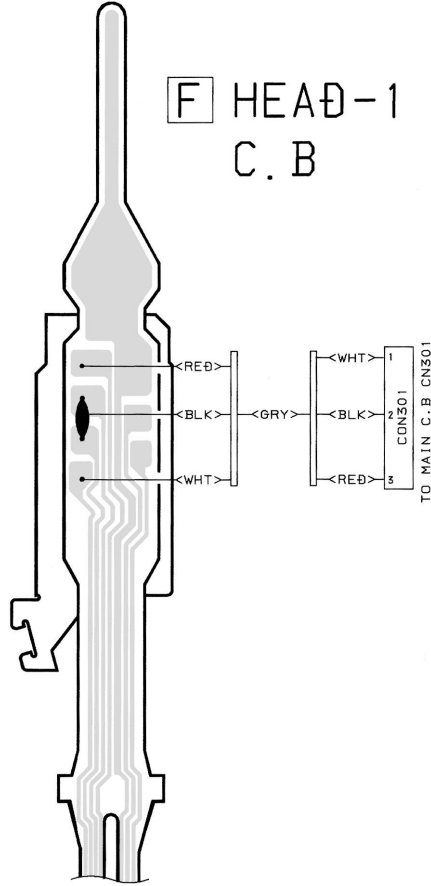
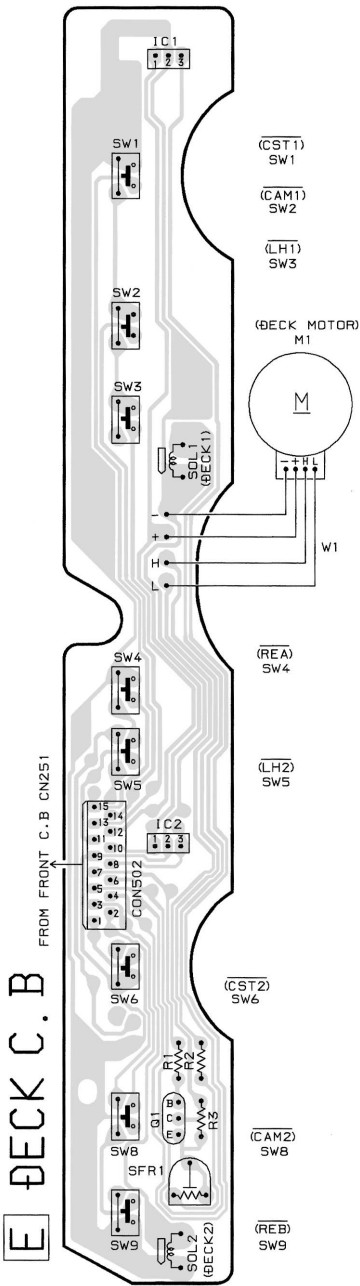
SCHEMATIC DIAGRAM - 6 (LH : PT)



WIRING - 6 (DECK / HEAD-1 / HEAD-2)

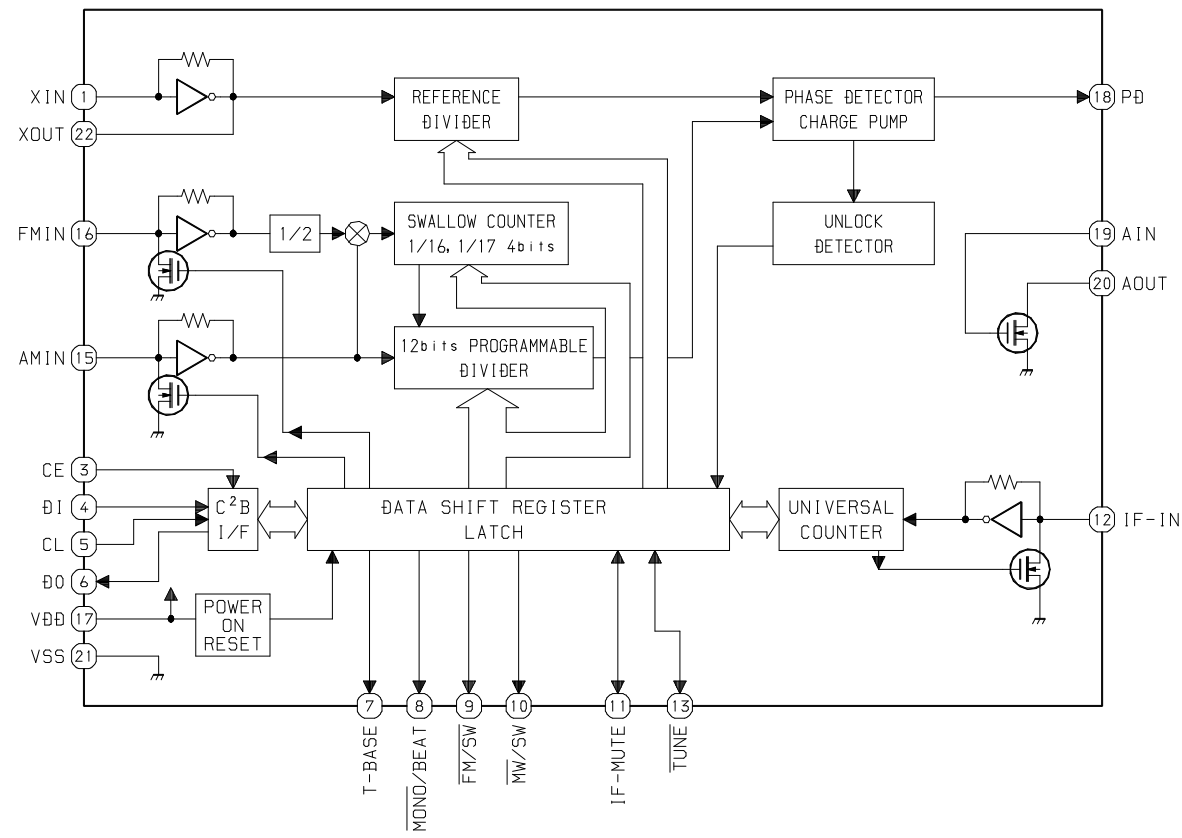
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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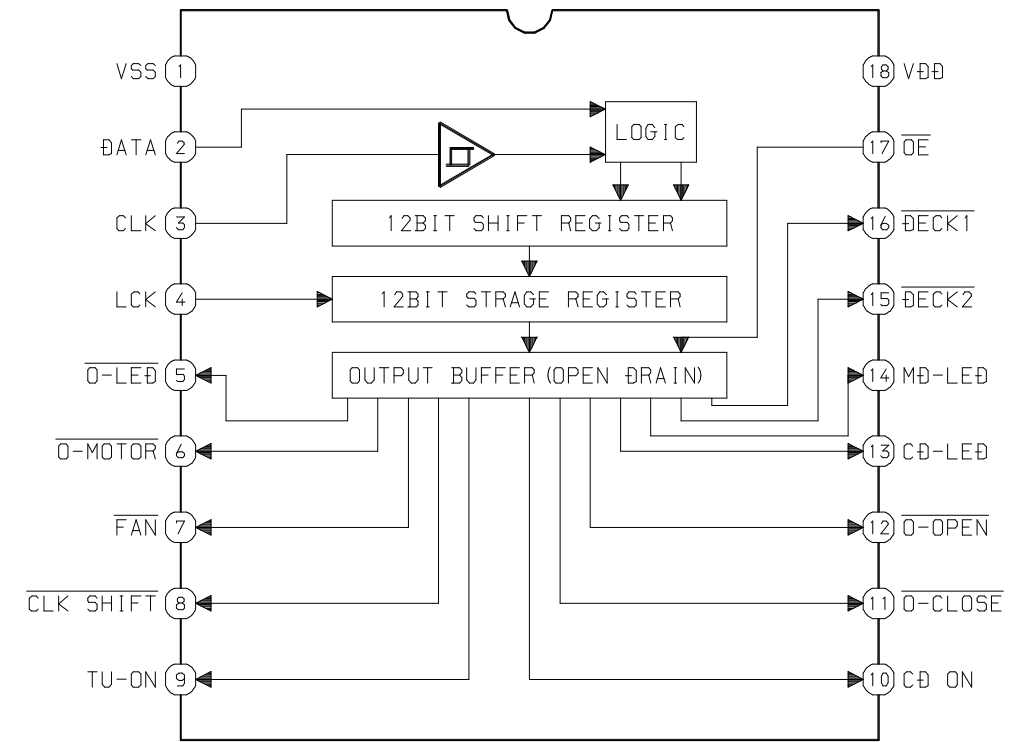


IC BLOCK DIAGRAM

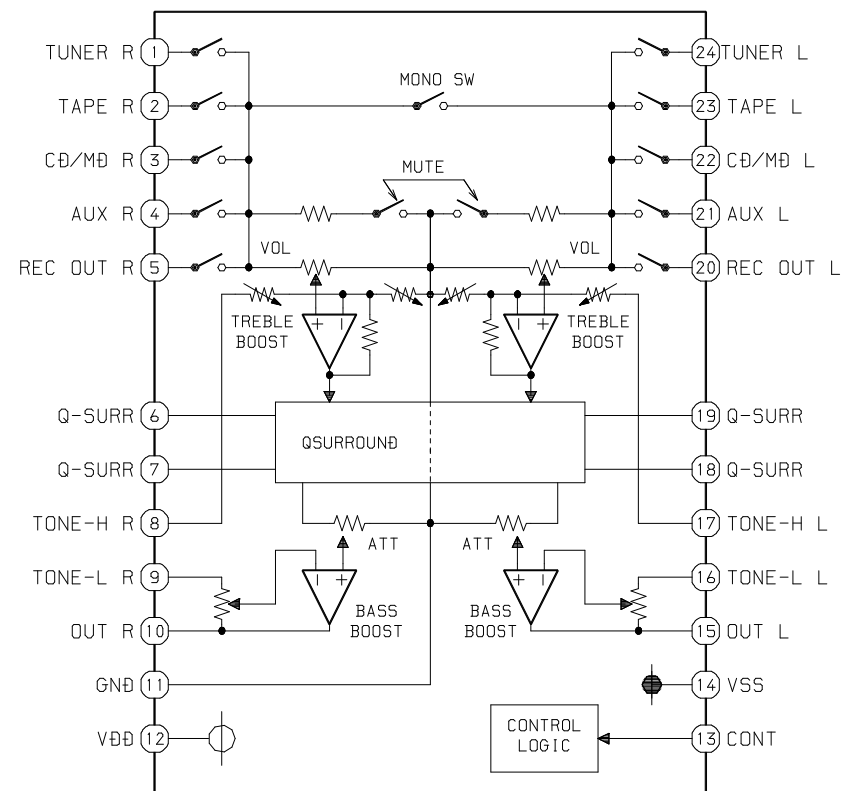
IC, LC72131D



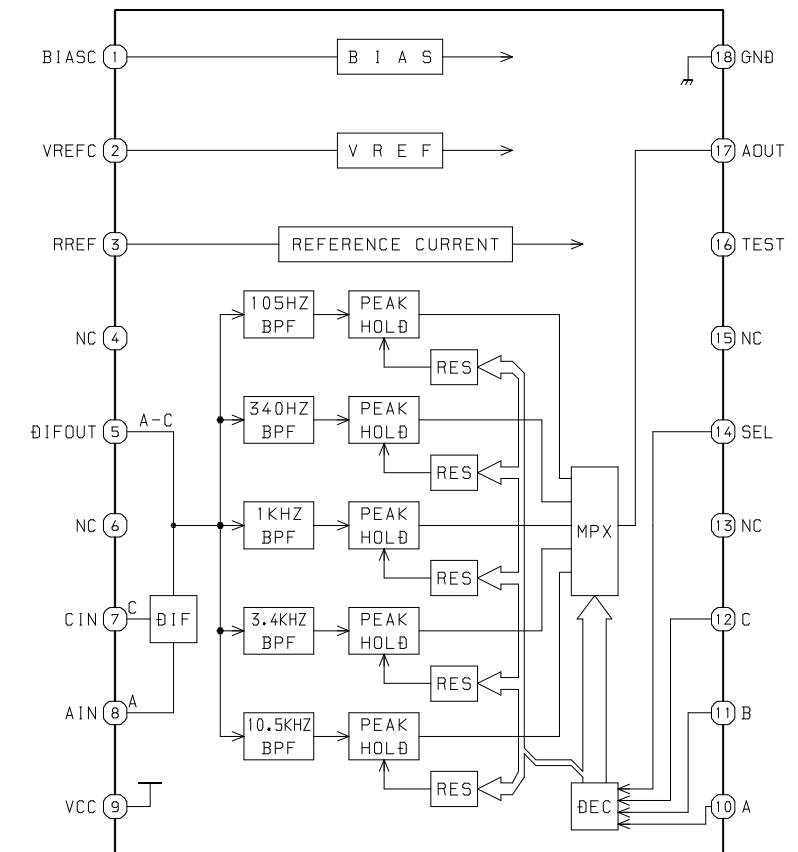
IC, BU2092F



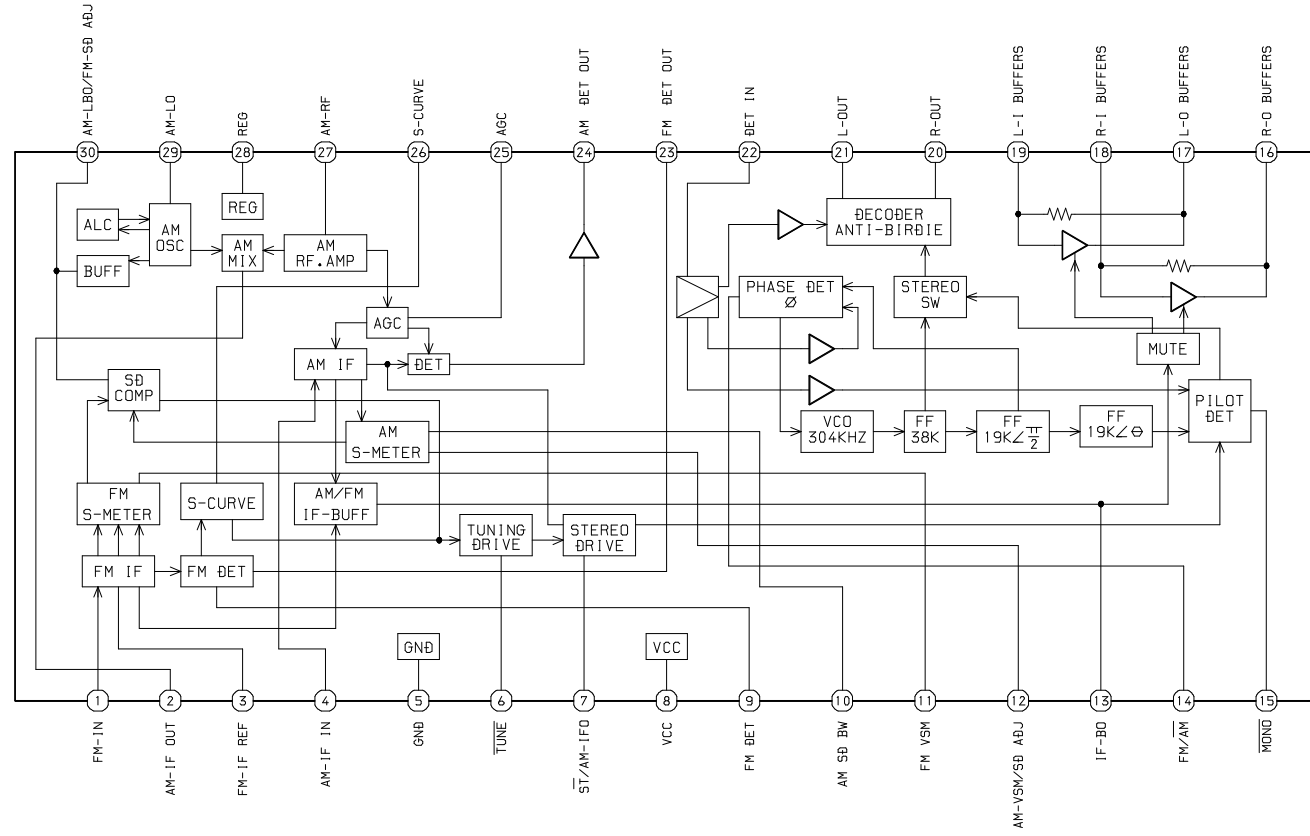
IC, M61500FP



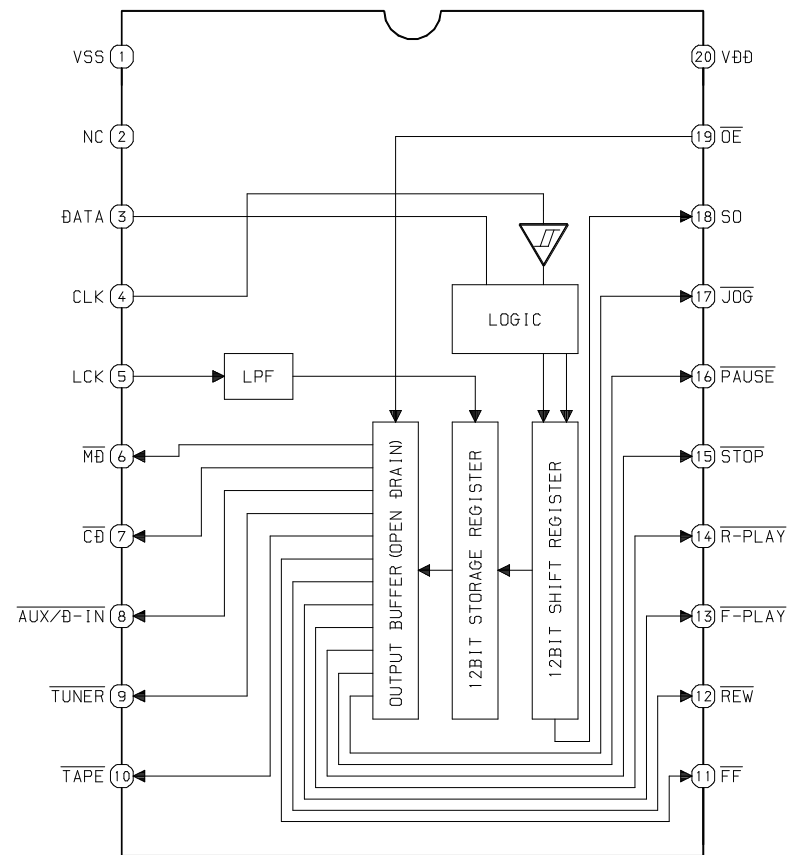
IC, BA3835F



IC, LA1837NL



IC, BU2099FV



IC DESCRIPTION

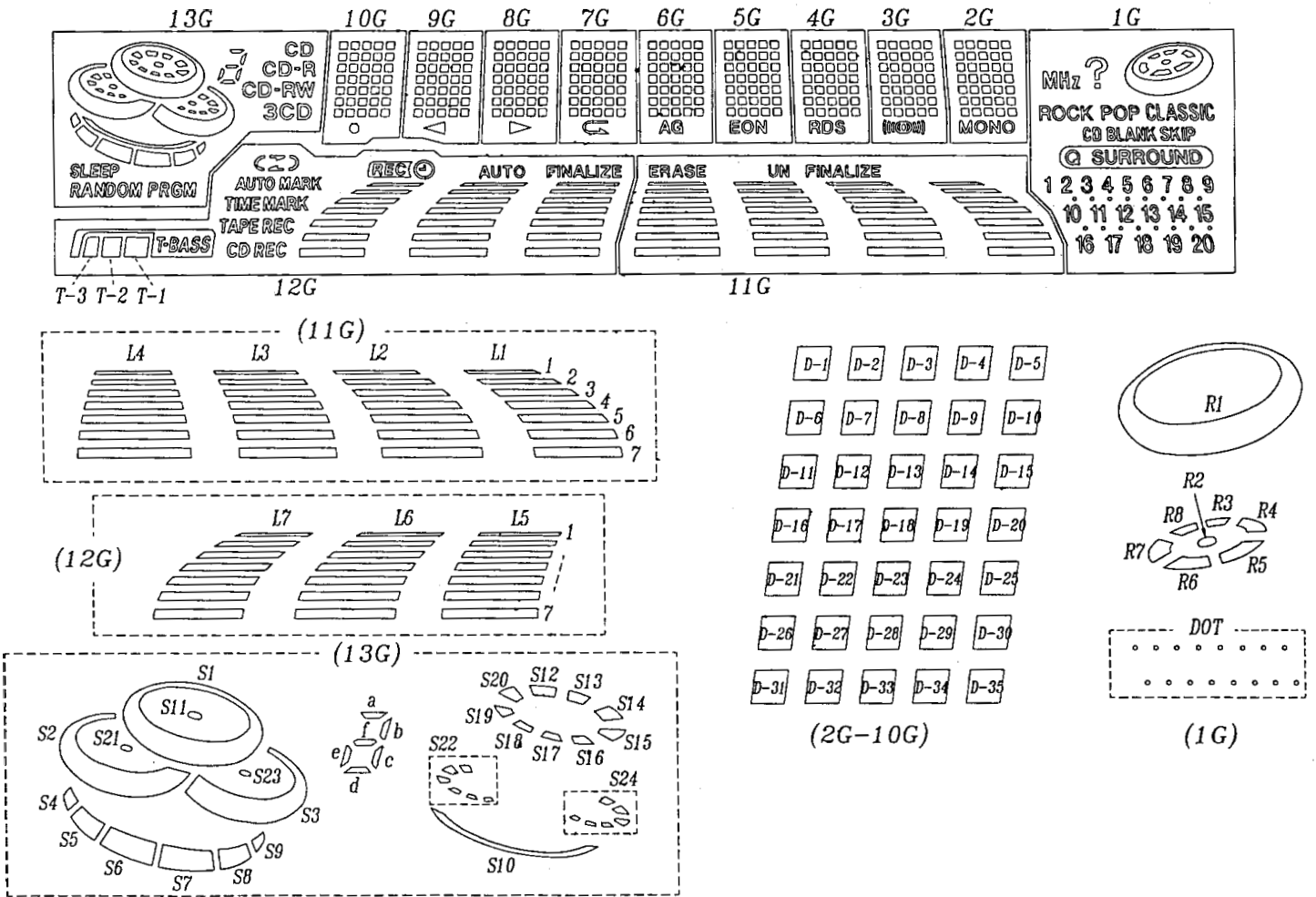
IC, LC87F65C8AU

Pin No.	Pin Name	I/O	Description
1	I-DISH	I	CD turnable photo sensor input.
2	I-DRF/I-STEREO	I	CD DRF input/Stereo detect input.
3	O-2PB	O	Selection of Deck $\bar{1}/2$.
4	O-BIAS	O	Deck bias output.
5	O-RMT(STB)	O	REC mute output/(STB output:HIGH-PWB used).
6	O-DATA	O	DATA output for MAIN C.B.
7	O-CLK	O	CLOCK output for MAIN C.B.
8	O-CD DATA/ I-RDS DATA	O/I	CD data output/RDS data input (not used).
9	O-MUTE	O	System mute ON/OFF output.
10	O-CDCE	O	CD CE output.
11	$\overline{\text{RESET}}$	I	Reset input for MICON.
12	I-SUBQ/I-TU.IFC	I	CD SUBQ input/TUNER IF count input.
13	I-TU-SIG/I-MIC	I	Tuner signal input/Microphone input for VF.
14	VSS1	-	GND.
15	CF1	I	Microcomputer clock input.
16	CF2	O	Microcomputer clock output.
17	VDD1	-	Power supply.
18	$\overline{\text{I-HOLD}}$	I	Hold input.
19~22	I-KEY-1~4	I	Key 1~4 AD input.
23	I-CDSW	I	CD mechanical switch input.
24	I-RE-VOL	I	Multi-jog (VOLUME) encoder input.
25	I-RE-MULTI	I	Multi-jog encoder input.
26	I-SPEANA	I	Spectrum analyzer level AD input.
27	I-WRQ/I-RDS-CLK	I/O	CD WRQ input/RDS-CLK input.
28	I-TM-BASE	I	Standard time input (8Hz).
29	$\overline{\text{I-RMC}}$	I	System remote controller input.
30~42	G13~G1	O	FL grid output (G13~G1).
43~45	P36~P34	O	FL segment output (P36~P34).
46	VDD3	-	VDD (for FL).
47	SP-A/P33	O	Spectrum analyzer band change output (A)/FL segment output (P33).
48	SP-B/P32	O	Spectrum analyzer band change output (B)/FL segment output (P32).
49	SP-C/P31	O	Spectrum analyzer band change output (C)/FL segment output (P31).
50	P30	O	FL segment output (P30).
51	VP	-	-VFL.
52	ECO-OFF/P29	I/O	ECO MODE off diode input (not used)/FL segment output (P29).
53	KEYCON/P28	I/O	KEY CONTROL diode input (not used)/FL segment output (P28).
54	KARAOKE/P27	I/O	KARAOKE diode input (not used)/FL segment output (P27).
55	ECHO/P26	I/O	ECHO diode input (not used)/FL segment output (P26).
56	DEMO/P25	I/O	DEMO diode input (not used)/FL segment output (P25).
57	AM-ST/P24	I/O	AM-STEREO diode input (not used)/FL segment output (P24).

Pin No.	Pin Name	I/O	Description
58	LW/P23	I/O	LW diode input (not used)/FL segment output (P23).
59	SW/P22	I/O	SW diode input (not used)/FL segment output (P22).
60	FM1/P21	I/O	FM1 (OIRT) diode input (not used)/FL segment output (P21).
61	RDS/P20	I/O	RDS diode input (not used)/FL segment output (P20).
62	AM-9K/10K/P19	I/O	AM 10K diode input/FL segment output (P19).
63	Q-SUPR/P18	I/O	Q-SUPR diode input (not used)/FL segment output (P18).
64	REA/P17	I/O	DECK side A record permission SW input/FL segment output (P17).
65	CST1/P16	I/O	DECK 1 cassette detect SW input/FL segment output (P16).
66	CAM1/P15	I/O	DECK 1 CAM SW input/FL segment output (P15).
67	AUTO2/P14	I/O	DECK 2 auto stop input/FL segment output (P14).
68	AUTO1/P13	I/O	DECK 1 auto stop input/FL segment output (P13).
69	CAM2/P12	I/O	DECK 2 CAM SW input/FL segment output (P12).
70	REB/P11	I/O	DECK side B record permission SW input/FL segment output (P11).
71	CST2/P10	I/O	DECK 2 cassette detect SW input/FL segment output (P10).
72	VDD4	–	VDD (for FL).
73~81	P9~P1	O	FL segment output (P9~P1).
82	O-KSCAN/CLKADJ	O	Key scan timing output.
83	O-CD CLK	O	CD CLK output.
84	O-LED STB	O	Strobe output for LED driver.
85	O-DISH FWD	O	CD turnable forward revolution output.
86	O-DISH RVS	O	CD turnable reverse revolution output.
87	O-PLL CE	O	Chip enable output for PLL.
88	O-STBY-LED	O	STBY LED ON output (STBY LED ON during O-POWER OFF).
89	VSS2	–	GND.
90	VDD2	–	Power supply.
91	O-SOL1	O	DECK 1 plunger ON/OFF output.
92	O-SOL2	O	DECK 2 plunger ON/OFF output.
93	O-POWER	O	System power ON/OFF output.
94	O-CDRES	O	CD-R reset output (Active low).
95	I-SOUT	I	CD-R SOUT input.
96	O-SIN	O	CD-R SIN output. (Not used)
97	I-ACLK	I	CD-R ACLK input. (Not used)
98	I-RREQ	I	CD-R ARDY input.
99	O-SRDY	O	CD-R SREQ output.
100	O-SREQ	O	CD-R MREQ output.

FL (HNA-13MM16T) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

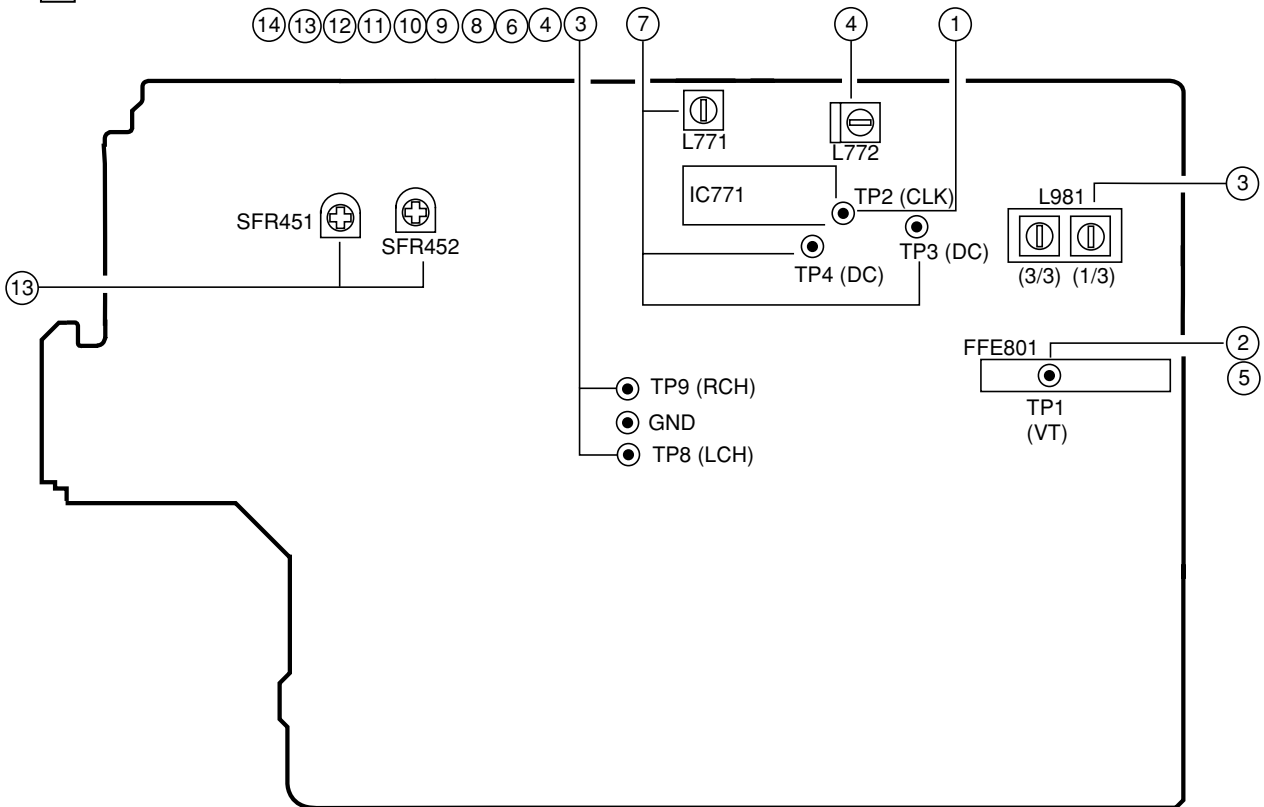


ANODE CONNECTION

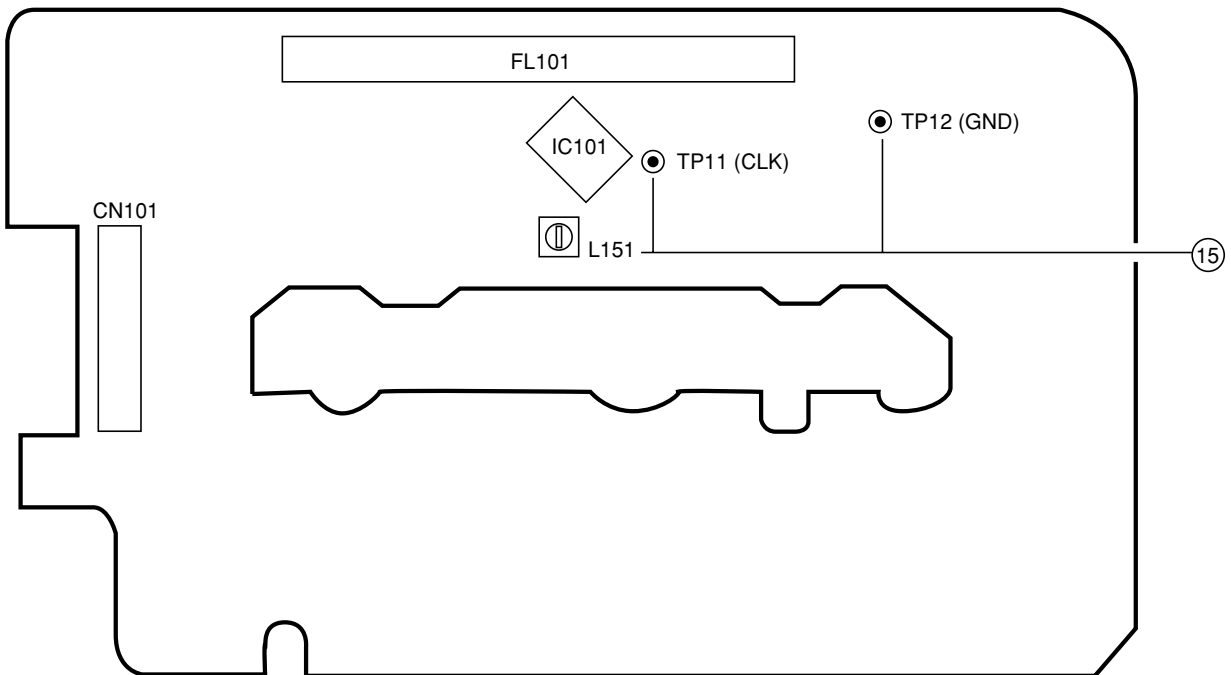
	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	MHz	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	D-1	L1-1	FINALIZE	CD
P2	?	D-2	D-2	D-2	D-2	D-2	D-2	D-2	D-2	D-2	L1-2	L5-1	CD-R
P3	ROCK	D-3	D-3	D-3	D-3	D-3	D-3	D-3	D-3	D-3	L1-3	L5-2	CD-RW
P4	POP	D-4	D-4	D-4	D-4	D-4	D-4	D-4	D-4	D-4	L1-4	L5-3	3CD
P5	CLASSIC	D-5	D-5	D-5	D-5	D-5	D-5	D-5	D-5	D-5	L1-5	L5-4	a,f,d
P6	R1	D-6	D-6	D-6	D-6	D-6	D-6	D-6	D-6	D-6	L1-6	L5-5	b
P7	R2	D-7	D-7	D-7	D-7	D-7	D-7	D-7	D-7	D-7	L1-7	L5-6	c
P8	R3	D-8	D-8	D-8	D-8	D-8	D-8	D-8	D-8	D-8	FINALIZE	L5-7	e
P9	R4	D-9	D-9	D-9	D-9	D-9	D-9	D-9	D-9	D-9	L2-1	AUTO	S1
P10	R5	D-10	D-10	D-10	D-10	D-10	D-10	D-10	D-10	D-10	L2-2	L6-1	S12
P11	R6	D-11	D-11	D-11	D-11	D-11	D-11	D-11	D-11	D-11	L2-3	L6-2	S13
P12	R7	D-12	D-12	D-12	D-12	D-12	D-12	D-12	D-12	D-12	L2-4	L6-3	S20
P13	R8	D-13	D-13	D-13	D-13	D-13	D-13	D-13	D-13	D-13	L2-5	L6-4	S14
P14	CO BLANK SKIP	D-14	D-14	D-14	D-14	D-14	D-14	D-14	D-14	D-14	L2-6	L6-5	S11
P15	Q SURROUND	D-15	D-15	D-15	D-15	D-15	D-15	D-15	D-15	D-15	L2-7	L6-6	S19
P16	DOT	D-16	D-16	D-16	D-16	D-16	D-16	D-16	D-16	D-16	UN	L6-7	S15
P17	1	D-17	D-17	D-17	D-17	D-17	D-17	D-17	D-17	D-17	L3-1	⊙	S18
P18	2	D-18	D-18	D-18	D-18	D-18	D-18	D-18	D-18	D-18	L3-2	REC	S16
P19	3	D-19	D-19	D-19	D-19	D-19	D-19	D-19	D-19	D-19	L3-3	L7-1	S17
P20	4	D-20	D-20	D-20	D-20	D-20	D-20	D-20	D-20	D-20	L3-4	L7-2	S3
P21	5	D-21	D-21	D-21	D-21	D-21	D-21	D-21	D-21	D-21	L3-5	L7-3	S24
P22	6	D-22	D-22	D-22	D-22	D-22	D-22	D-22	D-22	D-22	L3-6	L7-4	S23
P23	7	D-23	D-23	D-23	D-23	D-23	D-23	D-23	D-23	D-23	L3-7	L7-5	S9
P24	8	D-24	D-24	D-24	D-24	D-24	D-24	D-24	D-24	D-24	ERASE	L7-6	S8
P25	9	D-25	D-25	D-25	D-25	D-25	D-25	D-25	D-25	D-25	L4-1	L7-7	S7
P26	10	D-26	D-26	D-26	D-26	D-26	D-26	D-26	D-26	D-26	L4-2)	S6
P27	11	D-27	D-27	D-27	D-27	D-27	D-27	D-27	D-27	D-27	L4-3	2	S5
P28	12	D-28	D-28	D-28	D-28	D-28	D-28	D-28	D-28	D-28	L4-4	⊂	S4
P29	13	D-29	D-29	D-29	D-29	D-29	D-29	D-29	D-29	D-29	L4-5	AUTO MARK	S2
P30	14	D-30	D-30	D-30	D-30	D-30	D-30	D-30	D-30	D-30	L4-6	TIME MARK	S22
P31	15	D-31	D-31	D-31	D-31	D-31	D-31	D-31	D-31	D-31	L4-7	TAPE REC	S21
P32	16	D-32	D-32	D-32	D-32	D-32	D-32	D-32	D-32	D-32		CO REC	S10
P33	17	D-33	D-33	D-33	D-33	D-33	D-33	D-33	D-33	D-33		⌈ MASS	SLEEP
P34	18	D-34	D-34	D-34	D-34	D-34	D-34	D-34	D-34	D-34		T-1	RANDOM
P35	19	D-35	D-35	D-35	D-35	D-35	D-35	D-35	D-35	D-35		T-2	PRGM
P36	20	MONO	MONO	RDS	EON	AG	⊂	▷	◁	o		T-3	

ADJUSTMENT <TUNER / DECK / FRONT>

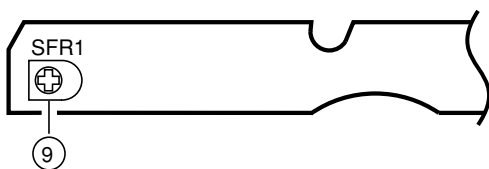
A MAIN C.B



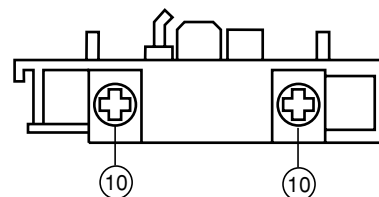
B FRONT C.B



E DECK C.B



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



< 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 and check that the test point is less than 8.5V. Then set to AM 530kHz and check that the test point is more than 0.6V.
3. AM Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L981 (1/3)
Method : Set to AM 1000kHz and adjust L981 (1/3) so that the test point becomes maximum.
4. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L772 450kHz
5. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.
6. 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.
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC balance)
• Adjustment location : L771
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 is 0V \pm 0.04V. Then check the distortion is less than 1.3%.
8. FM Separation Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

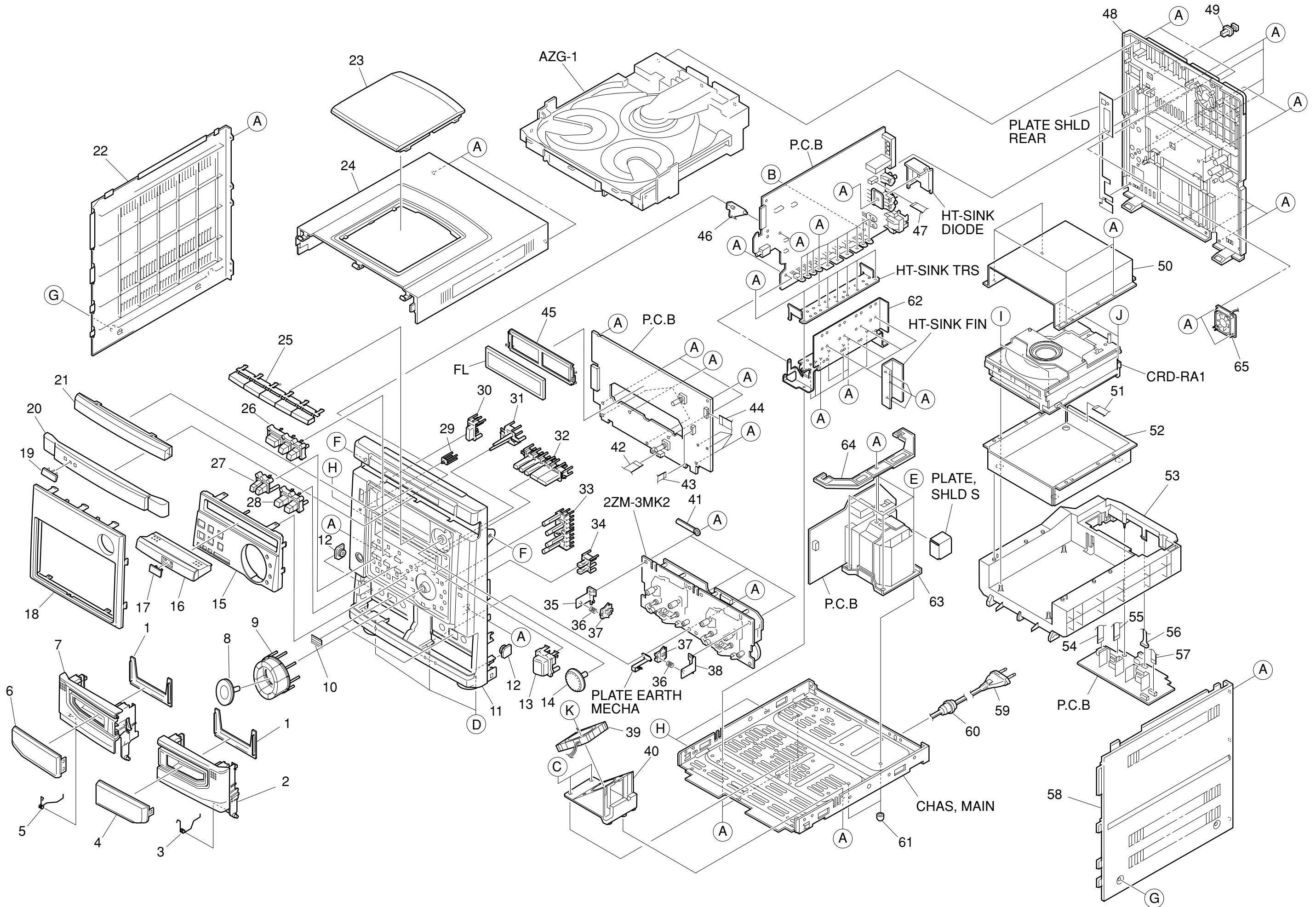
< DECK SECTION >

9. 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 $3000\text{Hz} \pm 5\text{Hz}$ and $\pm 45\text{Hz}$ (REV) with respect to forward speed.
10. 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 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.
11. 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.
12. 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 $100\text{mV} \pm 3\text{dB}$.

13. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP8 (Lch), TP9 (Rch)
• Input signal : 1kHz / 8kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (8mV). 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.
14. 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 (80mV). Record and play back the 1kHz signals and check that the output is $0\text{dB} \pm 3.0\text{dB}$.

< FRONT SECTION >

15. μ -CON OSC Adjustment
Settings : • Test point : TP11 (CLK), TP12 (GND)
• Adjustment location : L151
Method : Insert AC plug while pressing TUNER function key and DIRECTION key. Adjust L151 so that the frequency at the test point is $209.55\text{Hz} \pm 0.05\text{Hz}$.



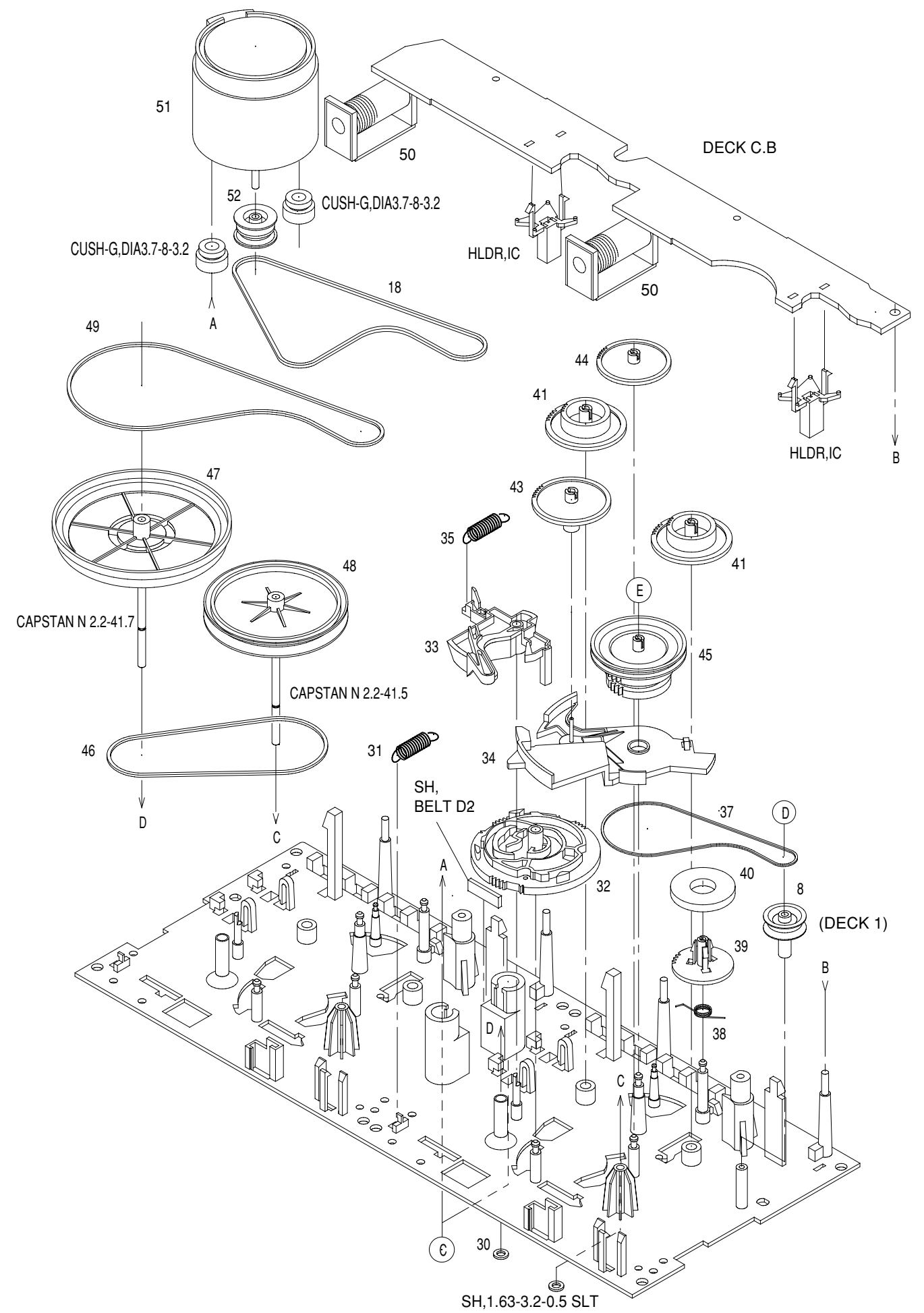
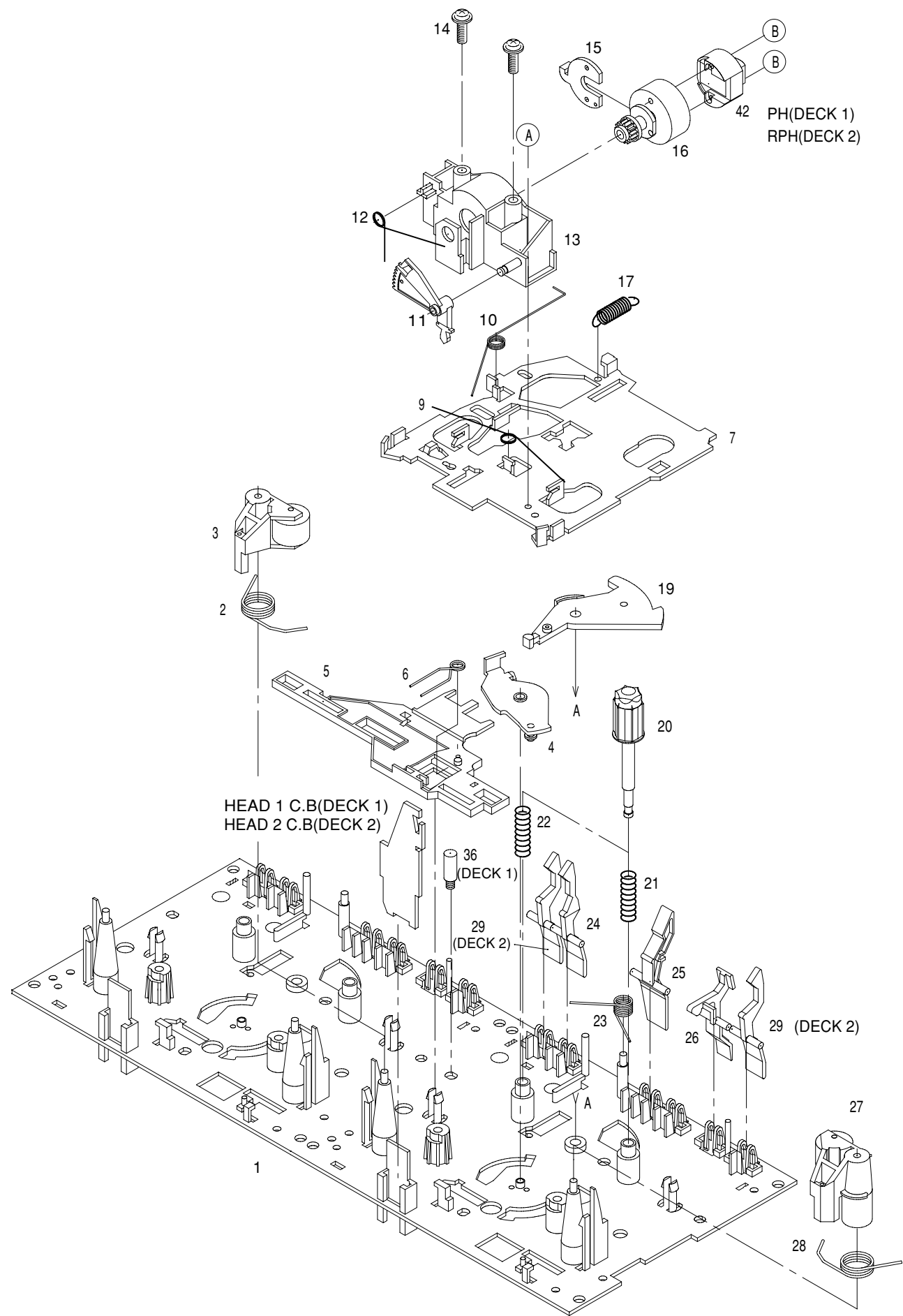
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF6-061-010		REFLECTOR, CASS	45	8A-DB8-204-010		GUIDE, FL
2	8A-DB8-004-010		BOX, CASS 2	46	88-NF5-208-010		HLDR, PWB-M N
3	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	47	88-912-121-110		FF-CABLE, 12P 1.25 120MM
4	8A-DB8-012-010		WINDOW, CASS 2	48	8A-DF8-009-010		CABI, REAR LHSM<LH>
5	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	48	8A-DF8-008-010		CABI, REAR USM<U>
6	8A-DB8-011-010		WINDOW, CASS 1	49	84-ZG1-245-210		CAP, OPTICAL
7	8A-DB8-003-010		BOX, CASS 1	50	8A-DF8-206-010		CASE, CD-R TOP
8	8A-DB8-028-010		KNOB, RTRY ASSY JOG	51	8A-DF8-631-010		FF-CABLE, 9P 1.0 250MM
9	8A-DB8-031-110		KEY, ASSY JOG	52	8A-DF8-205-010		CASE, CD-R BOTTOM
10	81-532-080-010		LABEL, CASS. COMPT	53	8A-DF8-201-010		HLDR, CD-R
11	8A-DF8-001-010		CABI, FR	54	88-912-151-110		FF-CABLE, 12P 1.25
12	8Z-NF6-210-010		DMPR, 150 N	55	88-906-171-110		FF-CABLE, 6P 1.25
13	8A-DF8-007-010		KEY, OPEN CD-R	56	87-NB7-615-010		CONN ASSY, 2P SHIELDPH/PH
14	8A-DB8-027-010		KNOB, RTRY VOL	57	88-908-341-110		FF-CABLE, 8P 1.25 340MM
15	8A-DF8-002-010		PANEL, AMP	58	8A-NF8-008-010		PANEL, RIGHT V-2
16	8A-DF8-003-010		PANEL, TRAY CD-R	△	59	87-A80-092-010	AC CORD ASSY, E BLK SUN FAI<LH>
17	8Z-DF8-014-010		BAGE, CD-R 26	△	59	87-A80-110-010	AC CORD ASSY, U SPT-2W<U>
18	8A-DF8-023-010		WINDOW, DISPLAY EZ<LH>	60	87-085-185-010		BUSHING, AC CORD (E)<LH>
18	8A-DF8-024-010		WINDOW, DISPLAY U<U>	60	87-085-189-010		BUSHING, CORD (U)<U>
19	87-CE3-023-010		BADGE, AIWA 30N SILV	61	8Z-NB8-240-010		COVER, PL
20	8A-DB8-005-110		PANEL, TRAY	62	8A-DF8-203-010		HT-SINK,
21	8A-DF8-021-010		WINDOW, CD	△	63	8A-DF8-606-010	PT, ADF8-H<LH>
22	8A-NF8-007-010		PANEL, LEFT V-2	△	63	8A-DF8-607-010	PT, ADF8-U<U>
23	8A-NF8-006-010		WINDOW, TOP	64	8A-DF8-202-010		HLDR, PWB PT
24	8A-NF8-005-010		PANEL, TOP	65	87-A91-820-010		FAN, 3110GL-B4W-B34-H05 -470MM
25	8A-DF8-012-010		KEY, ASSY FUN	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
26	8A-DB8-017-010		KEY, ASSY OPE	B	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
27	8A-DF8-006-010		KEY, FINALIZE	C	87-067-579-010		TAPPING SCREW, BVT2+3-8
28	8A-DF8-004-010		KEY, ASSY OPE 2	D	87-067-688-010		BVTT+3-6
29	8A-DB8-036-010		REFLECTOR, ECO	E	87-078-191-010		S-SCREW, IT+4-10
30	8A-DB8-013-010		KEY, POWER	F	87-721-097-410		QT2+3-12 GLD
31	8A-DB8-023-010		KEY, T-BASS	G	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
32	8A-DB8-022-110		KEY, CD	H	87-723-096-410		QT2+3-10W/O SLOT BL
33	8A-DB8-024-010		KEY, REC	I	87-B10-069-010		BVT2+3-35 W/O
34	8A-DB8-020-010		KEY, ECO	J	87-B10-299-010		BVT2+3-30 W/O SLOT
35	87-NF4-216-010		HLDR, LOCK 1	K	87-067-873-010		BVT2+3-25 W/O SLOT
36	86-NF9-224-010		SPR-C, LOCK		M8-AZK-F90-070		CRD-RA1
37	82-NF5-229-010		PLATE, LOCK				
38	87-NF4-217-110		HLDR, LOCK 2				
39	87-A91-232-010		FAN, F614R-12MC-22-350MM				
40	8A-DF8-207-010		HLDR, FAN				
41	87-064-185-010		HLDR, WIRE				
42	88-915-121-110		FF-CABLE, 15P 1.25				
43	88-908-281-110		FF-CABLE, 8P 1.25 280MM				
44	88-913-271-110		FF-CABLE, 13P 1.25				

COLOR NAME TABLE

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

TAPE MECHANISM EXPLODED VIEW 1 / 1



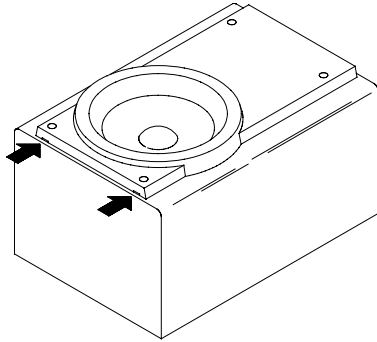
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-610		CHAS ASSY,M2	31	82-ZM1-255-310		SPR-E,LVR DIR
2	82-ZM1-258-210		SPR-T,PINCH L	32	82-ZM3-305-210		GEAR,CAM M2
3	82-ZM1-341-210		LVR ASSY,PINCH L2	33	82-ZM1-227-310		LVR,TRIG
4	82-ZM1-333-210		PLATE,LINK2	34	82-ZM3-306-110		LVR,FR M2
5	82-ZM1-266-310		LVR,DIR	35	82-ZM1-265-310		SPR-E,TRIG
6	82-ZM1-214-010		SPR-T,DIR	36	82-ZM3-339-110		SHAFT,COUPLER N3
7	82-ZM1-206-910		CHAS,HEAD	37	86-ZM1-206-010		BELT,MAIN L
8	82-ZM3-335-310		PULLEY,COUPLER M3	38	82-ZM1-322-010		SPR-T,FR 60
9	82-ZM1-269-210		SPR-T,BRG	39	82-ZM1-220-210		GEAR,IDLER
10	82-ZM1-219-110		SPR-T,LINK	40	82-ZM3-616-010		RING MAGNET 4
11	82-ZM1-210-110		GEAR,H T	41	82-ZM1-216-410		GEAR,REEL
12	82-ZM1-213-010		SPR-T,HEAD	42	87-A90-820-010		HEAD,PH HADKH25 FPC
13	82-ZM1-207-910		GUIDE,TAPE	42	87-A90-821-010		HEAD,RPH HADKH56 FPC
14	86-ZM4-206-010		S-SCREW,AZIMUTH L	43	82-ZM1-225-210		GEAR,FR
15	82-ZM1-314-110		PLATE,HEAD	44	82-ZM1-226-010		GEAR,REW
16	82-ZM1-208-310		HLDR,HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
17	82-ZM1-218-010		SPR-E,HB	46	82-ZM1-338-110		BELT,FR 4
18	82-ZM3-342-010		BELT,SBU MOT 3	47	82-ZM1-237-610		FLY-WHL ASSY R
19	82-ZM1-222-210		LVR,PLAY	47	82-ZM1-234-310		FLY-WHL ASSY L
20	82-ZM1-217-410		REEL TABLE	48	09-001-420-010		FLY-WHL ASSY R3W
21	82-ZM1-244-510		SPR-C,BT	49	82-ZM3-329-410		BELT,SBU R2
22	82-ZM1-285-410		SPR-C,BT L	50	82-ZM1-618-410		SOL ASSY,27
23	82-ZM1-257-010		SPR-T,CAS	51	87-045-347-010		MOT,SHU2L 70
24	82-ZM1-241-310		LVR,MC	52	82-ZM3-221-210		PULLEY,MOT 2M
25	82-ZM1-242-010		LVR,CAS	A	85-ZM3-202-010		S-SCREW,TG
26	82-ZM1-243-010		LVR,STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-344-010		LVR ASSY,PINCH R2	C	82-ZM3-318-110		S-SCREW W,MOTOR M2
28	82-ZM1-259-210		SPR-T,PINCH R	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
29	82-ZM1-240-110		LVR,REC(*)	E	82-ZM3-334-010		PW 2.16-6-0.4
30	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT				

SPEAKER DISASSEMBLY INSTRUCTIONS

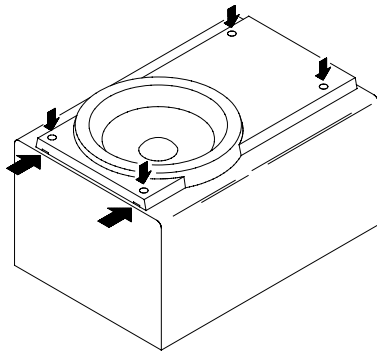
Type.1

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



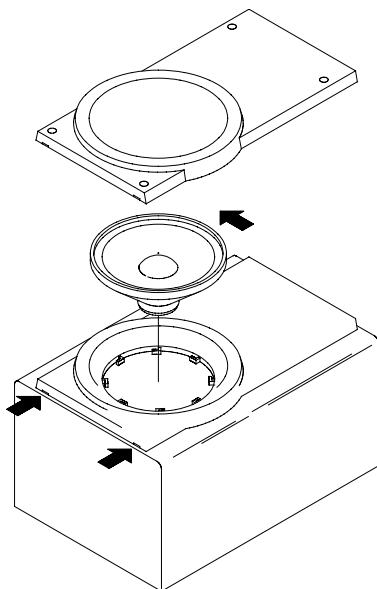
Type.2

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

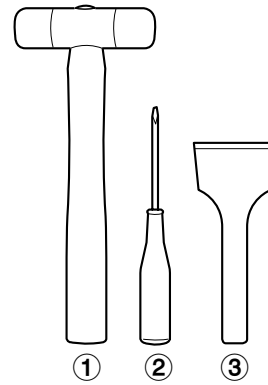


Type.3

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



Type.4



TOOLS

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

How to Remove the PANEL, FR

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

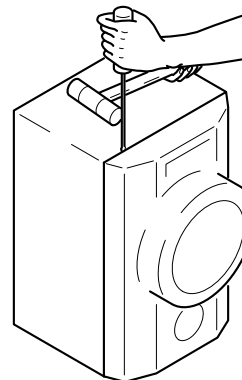


Fig-1

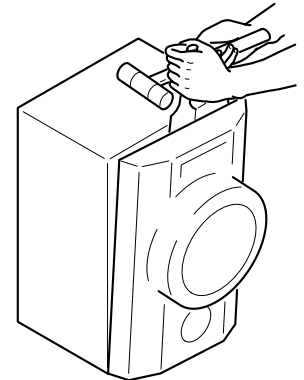


Fig-2

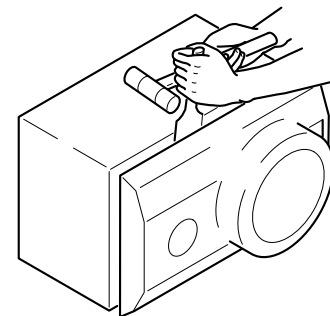


Fig-3

How to Attach the PANEL, FR

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

SPEAKER PARTS LIST SX-WNC303 (YLSL,YUSL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-DS8-001-010		PANEL, FR<YL>
1	8A-NS8-011-010		PANEL, FR U<YU>
2	8A-DS8-004-010		PANEL, DUCT
3	8A-DS8-009-010		PROTECTOR
4	88-NS5-610-010		CORD, SPKR
5	88-NS5-611-010		CORD, SPKR B/L
6	8Z-NSY-003-010		CORD, BUSH
7	88-NS3-029-010		CORD, BUSH L
8	8Z-NS7-602-010		SPKR, TW 160
9	8Z-NSY-604-010		SPKR, M 100
10	8Z-NSY-608-010		SPKR, CERAMIC ASSY
11	8A-DS8-005-010		GRILLE, FRAME ASSY<YL>
11	8A-NS8-006-010		GRILLE, FRAME ASSY U<YU>
12	8A-NSJ-006-010		BADGE, AIWA S35<YU>

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-DF8-902-010		IB, LH (ESP) M<LH>
1	8A-DF8-903-010		IB, U (ESF) M<U>
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT, FEEDER FM
4	8Z-NF8-701-210		RC UNIT, RC-ZAS01
△	5 87-A91-017-010		PLUG, CONVERSION JT-0476<LH>

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