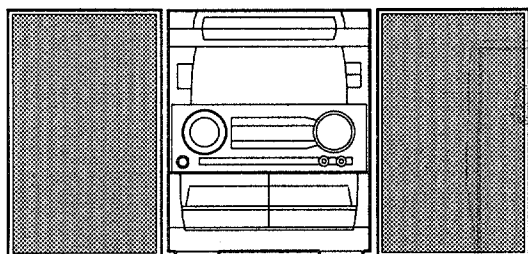


aiwa



NSX-A909 NSX-S909 NSX-S910



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 YPR4N
- BASIC CD MECHANISM : 4ZG-1 Z3DSHNM, Z4SHMD

- TYPE : 909(U,LH),
910LH

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-A909	CX-NA909 (TYPE : U)	SX-WNA909	RC - 7AS08
NSX-S909	CX-NS909 (TYPE : LH)	SX-WNS909	
NSX-S910	CX-NS910 (TYPE : LH)	SX-WNS909 SX-R285	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-983-249-3OT.

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SPECIFICATIONS

<FM Tuner section>

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

<MW Tuner section>

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

<Amplifier section>

Mid-high frequency amplifier

Power output	U : 30 W + 30 W (200 Hz - 20 kHz, T.H.D. less than 1%, 6 ohms) LH : 40 W + 40 W (1 kHz, T.H.D.10%, 6 ohms)
Total harmonic distortion	0.1% (17 W, 1 kHz, 6 ohms, DIN AUDIO)

Low-high frequency amplifier

Power output	U : 80 W + 80 W (20 Hz - 200 Hz, T.H.D. less than 1%, 6 ohms) LH : 140 W + 140 W (70 Hz, T.H.D. 10%, 6 ohms)
Total harmonic distortion	0.1% (70 W, 70 Hz, 6 ohms, DIN AUDIO)

Inputs

VIDEO/AUX : 210 mV(adjustable)
MD : 210mV (adjustable)

Outputs

MIC1, MIC2 : 1.4mV (10 kohms)
LINE OUT: 280mV
SPEAKERS: accept speakers of
6 ohms or more
SURROUND SPEAKERS:
accept speakers of 8 ohms to 16 ohms
PHONES (stereo jack) : accepts
headphones of 32 ohms or more

<Cassette deck section>

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

<Compact disc player section>

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

<Speaker system SX-WNA909 (For NSX-A909)>

Cabinet type	4 way, subwoofer (magnetic shielded type)
Speakers	Subwoofer : 200 mm (7 ⁷ / ₈ in.) cone type Woofer : 120 mm (4 ³ / ₄ in.) cone type Tweeter : 60 mm (2 ³ / ₈ in.) ceramic type Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic type
Impedance	6 ohms / 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 330mm (9 ¹ / ₂ X 12 ⁷ / ₈ X 13 in.)
Weight	6 kg (13 lbs 4 oz.)

<Speaker system SX-WNS909 (For NSX-S909, NSX-S910)>

Cabinet type	4 way, subwoofer (magnetic shielded type)
Speakers	Subwoofer : 200 mm cone type Woofer : 120 mm cone type Tweeter : 60 mm ceramic type Super tweeter: 20 mm ceramic type
Impedance	6 ohms / 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 330 mm
Weight	6 kg

<General>

Power requirements	U : 120 V AC, 60 Hz LH : 120 V/220-230 V/240 V AC (switchable), 50/60 Hz
Power consumption	U : 140 W LH : 215 W
Dimensions of main unit	260 x 329 x 369 mm (10 ¹ / ₄ X 13 X 14 ⁵ / ₈ in.)
Weight	U : 9.8 kg (21 lbs 10 oz.) LH : 10.9 kg

• Design and specifications are subject to change without notice.

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

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

NOTE ON BEFORE STARTING REPAIR

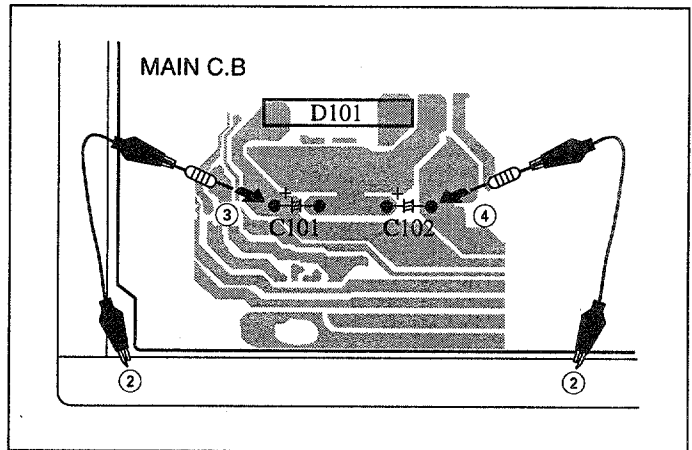
1. Forced discharge of electrolytic capacitor of power supply block

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, the 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. Connector 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 1 V or less using a multimeter or an oscilloscope.



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

Fig-1

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 capacitor 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 judgment 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.

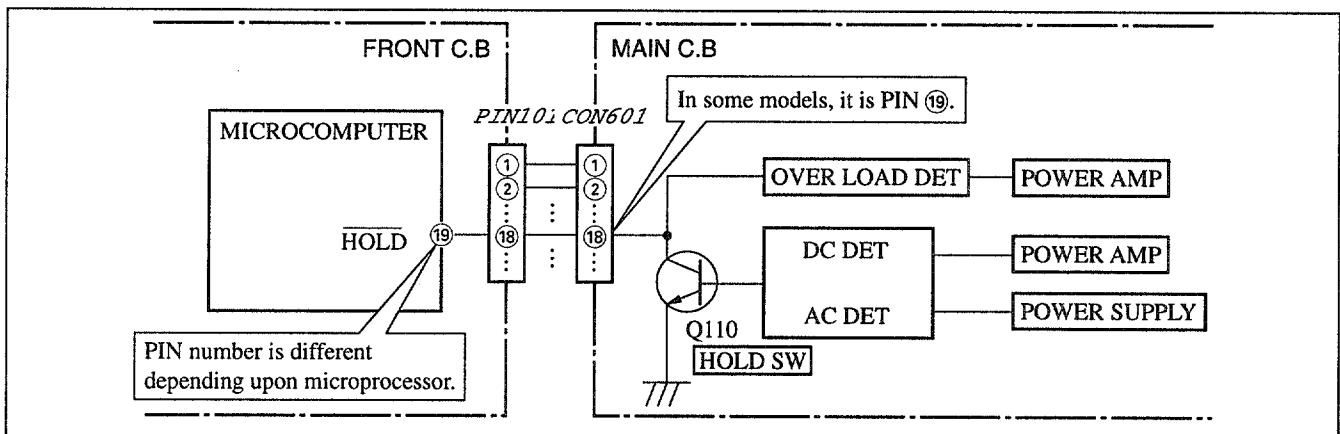


Fig-2-1

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 judgment 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.

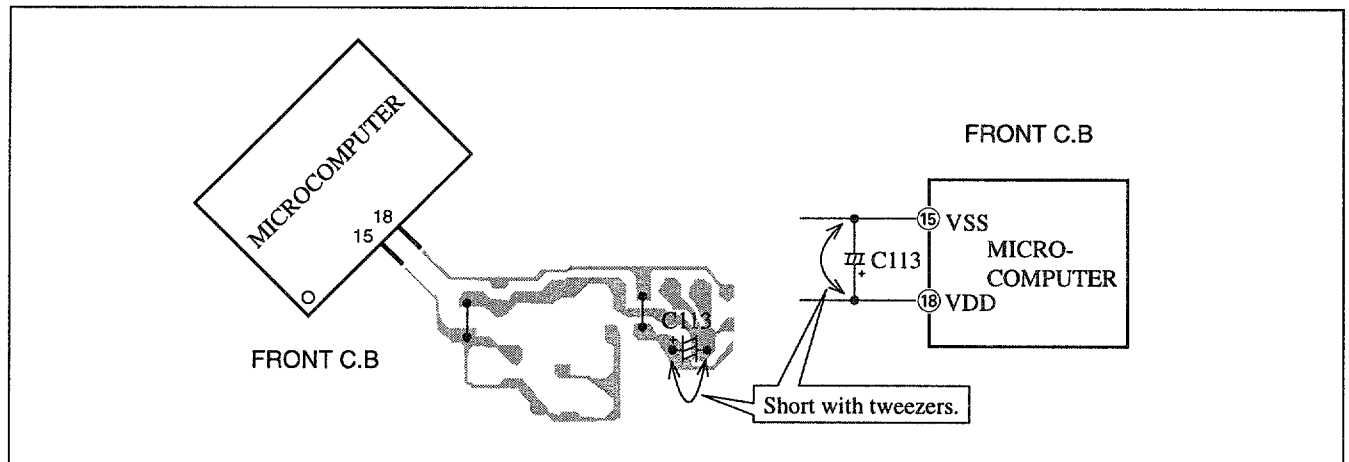


Fig-2-2

- ② Short the 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

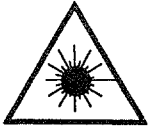
Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

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

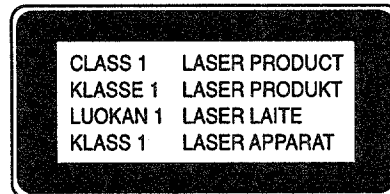
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



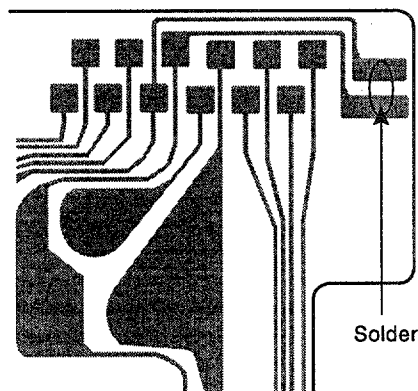
Precaution to replace Optical block

(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.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				87-017-447-010			DIODE,GBU4DL-6419
	88-NF5-615-040		C-IC,MSM6654A-521GS-KR1	MAIN C.B			
	88-NF7-690-010		C-IC,LC866560W-5G73	C101	87-016-657-090		CAP,E 3300-71<LH>
	87-070-083-010		IC,GP1U281X	C102	87-016-657-090		CAP,E 3300-71<LH>
	87-A20-783-040		C-IC,BA7762AFS	C103	87-016-658-090		CAP,E 4700-35 SMG
	87-A20-083-010		IC,BA3835S	C104	87-016-658-090		CAP,E 4700-35 SMG
	87-017-914-010		IC,BU4094BCP	C105	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-804-040		C-IC,NJM2152M	C106	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-915-080		IC,BU4094BCF	C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-613-040		C-IC,BU9262AFS	C108	87-012-368-080		C-CAP,S 0.1-50 F
	87-A20-954-040		C-IC,M62445FP-601	C109	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-888-080		IC,NJM4558MD	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
	86-NFZ-655-010		IC,LC72131D(Z)	C111	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-438-010		IC,LA1837	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-020-454-010		IC,DN6851	C113	87-010-247-080		CAP, ELECT 100-50V
	87-A20-355-010		IC,CXA1553P	C114	87-010-385-080		CAP, ELECT 220-25V
	87-070-289-040		C-IC,BU2092F	C115	87-010-385-080		CAP, ELECT 220-25V
TRANSISTOR				C116	87-010-247-080		CAP, ELECT 100-50V
	87-A30-087-080		C-FET,2SK2158	C117	87-010-430-080		CAP, ELECT 100-63
	89-213-702-010		TR,2SB1370 (1.8W)	C118	87-010-263-080		CAP, ELECT 100-10V
	87-026-263-080		C-TR,RN1410	C119	87-010-260-080		CAP, ELECT 47-25V
	87-A30-071-080		C-TR,RT1N 144C	C120	87-010-403-080		CAP, ELECT 3.3-50V
	87-026-610-080		TR,KTC3198GR	C121	87-012-140-080		CAP 470P
	87-A30-076-080		C-TR,2SC3052F	C122	87-010-263-080		CAP, ELECT 100-10V<U>
	87-A30-196-080		TR,2SC4115SRS	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-075-080		C-TR,2SA1235F	C124	87-010-112-080		CAP, ELECT 100-16V
	87-026-609-080		TR,KTA1266GR	C125	87-010-235-080		CAP,E 470-16 SME
	87-A30-107-070		C-TR,CMBT5401	C151	87-016-520-090		CAP,E 3300-65<U>
	87-A30-190-080		TR,CC5551	C152	87-016-520-090		CAP,E 3300-65<U>
	87-A30-137-010		TR,2SD2494	C209	87-010-401-080		CAP, ELECT 1-50V
	87-A30-097-010		TR,PN 1016<LH>	C210	87-010-401-080		CAP, ELECT 1-50V
	87-A30-138-010		TR,2SB1625	C215	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-098-010		TR,FP 1016<LH>	C216	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-106-070		C-TR,CMBT5551	C217	87-010-260-080		CAP, ELECT 47-25V
	87-A30-072-080		C-TR,RT1P 144C	C218	87-010-260-080		CAP, ELECT 47-25V
	87-A30-074-080		C-TR,RT1P 141C	C223	87-010-197-080		CAP,CHIP 0.01 DM
	87-026-232-080		C-TR,DTA 144WK	C224	87-010-197-080		CAP,CHIP 0.01 DM
	87-A30-073-080		C-TR,RT1N 141C	C229	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A30-105-080		C-TR,RT1P 441C	C230	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A30-086-070		C-TR,CSD1306E	C231	87-012-154-080		C-CAP,S 150P-50 CH
	89-112-965-080		TR,2SA1296 (0.75W)	C232	87-012-154-080		C-CAP,S 150P-50 CH
	87-A30-085-070		C-TR,CSA1362GR	C233	87-010-544-080		CAP, ELECT 0.1-50V
	89-327-143-080		TR,2SC2714 (0.1W)	C234	87-010-544-080		CAP, ELECT 0.1-50V
	87-026-463-080		TR,2SA933SRS	C235	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-162-010		FET,2SK2937	C237	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-108-010		TR,2SB1626<U>	C238	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-109-010		TR,2SD2495<U>	C239	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-580-080		C-TR,DTA123JK	C240	87-012-368-080		C-CAP,S 0.1-50 F
DIODE				C280	87-010-182-080		C-CAP,S 2200P-50 B
	87-A40-470-080		DIODE,ISS254	C298	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-654-060		DIODE,GBU6JL 6131	C301	87-010-318-080		C-CAP,S 47P-50 CH
	87-A40-269-080		C-DIODE,MC2836	C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-A40-509-080		ZENER,MTZJ6.8C	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-070-136-080		ZENER,MTZJ5.1B	C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-270-080		C-DIODE,MC2838	C305	87-012-145-080		CAP, CHIP S 270P CH
	87-070-274-080		DIODE,1N4003 SEM	C306	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-341-080		ZENER,MTZJ 36 A	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-004-080		ZENER,MTZJ16A	C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-488-080		DIODE,ISS244	C312	87-010-198-080		CAP, CHIP 0.022
	87-A40-345-080		ZENER,MTZJ10C	C313	87-010-179-080		CAP,CHIP S B1200P
	87-A40-184-090		DIODE,RF34<U>	C314	87-010-179-080		CAP,CHIP S B1200P
	87-A40-002-080		ZENER,MTZJ5.1C	C315	87-010-178-080		CHIP CAP 1000P
	87-A40-438-080		ZENER,MTZJ4.7A	C316	87-010-178-080		CHIP CAP 1000P
	87-A40-234-080		ZENER,MTZJ5.6A	C317	87-012-142-080		CAP,S 0.33-16
	87-A40-274-010		DIODE,FMB-G16L<LH>	C318	87-012-142-080		CAP,S 0.33-16
				C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
				C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C625	87-010-405-080		CAP, ELECT 10-50V
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C626	87-010-405-080		CAP, ELECT 10-50V
C324	87-010-260-080		CAP, ELECT 47-25V	C629	87-010-405-080		CAP, ELECT 10-50V
C325	87-010-370-080		CAP,E 330-6.3 SME	C630	87-010-213-080		CAP, CHIP 0.015-25 KB GRM
C327	87-010-404-080		CAP, ELECT 4.7-50V	C631	87-010-992-080		CHIP-CAP,S 0.047-25B
C328	87-010-404-080		CAP, ELECT 4.7-50V	C632	87-010-263-080		CAP, ELECT 100-10V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C633	87-010-263-080		CAP, ELECT 100-10V
C335	87-010-401-080		CAP, ELECT 1-50V	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C336	87-010-401-080		CAP, ELECT 1-50V	C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C636	87-010-194-080		CAP, CHIP 0.047
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C637	87-010-183-080		C-CAP,S 2700P-50 B
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P	C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C352	87-012-140-080		CAP 470P	C701	87-010-381-080		CAP, ELECT 330-16V
C354	87-010-175-080		CAP 560P	C702	87-010-404-080		CAP, ELECT 4.7-50V
C355	87-012-349-080		C-CAP,S 1000P-50 CH	C703	87-010-197-080		CAP, CHIP 0.01 DM
C356	87-010-260-080		CAP, ELECT 47-25V	C704	87-010-197-080		CAP, CHIP 0.01 DM
C357	87-010-197-080		CAP, CHIP 0.01 DM	C709	87-010-322-080		C-CAP,S 100P-50 CH
C358	87-010-183-080		C-CAP,S 2700P-50 B	C711	87-010-263-080		CAP, ELECT 100-10V
C359	87-010-183-080		C-CAP,S 2700P-50 B	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C360	87-010-183-080		C-CAP,S 2700P-50 B	C713	87-010-197-080		CAP, CHIP 0.01 DM
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C714	87-010-197-080		CAP, CHIP 0.01 DM
C371	87-010-177-080		C-CAP,S 820P-50 SL	C721	87-010-312-080		C-CAP,S 15P-50 CH
C372	87-010-177-080		C-CAP,S 820P-50 SL	C722	87-010-312-080		C-CAP,S 15P-50 CH
C373	87-010-179-080		CAP, CHIP S B1200P	C723	87-010-178-080		CHIP CAP 1000P
C374	87-010-179-080		CAP, CHIP S B1200P	C725	87-010-178-080		CHIP CAP 1000P
C375	87-010-545-080		CAP, ELECT 0.22-50V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C376	87-010-545-080		CAP, ELECT 0.22-50V	C728	87-010-248-080		CAP, ELECT 220-10V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C755	87-010-197-080		CAP, CHIP 0.01 DM
C381	87-010-197-080		CAP, CHIP 0.01 DM	C756	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH	C757	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM	C758	87-010-149-080		C-CAP,S 5P-50 CH
C384	87-010-402-080		CAP, ELECT 2.2-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C385	87-010-184-080		CHIP CAPACITOR 3300P (K)	C762	87-010-197-080		CAP, CHIP 0.01 DM
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C763	87-010-194-080		CAP, CHIP 0.047
C401	87-010-405-080		CAP, ELECT 10-50V	C764	87-010-319-080		C-CAP,S 56P-50 CH
C402	87-010-405-080		CAP, ELECT 10-50V	C765	87-010-197-080		CAP, CHIP 0.01 DM
C403	87-010-182-080		C-CAP,S 2200P-50 B	C766	87-010-197-080		CAP, CHIP 0.01 DM
C404	87-010-182-080		C-CAP,S 2200P-50 B	C767	87-010-405-080		CAP, ELECT 10-50V
C405	87-010-193-080		CHIP CAPACITOR,0.033	C768	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-193-080		CHIP CAPACITOR,0.033	C769	87-010-408-080		CAP, ELECT 47-50V
C407	87-010-405-080		CAP, ELECT 10-50V	C770	87-015-821-080		C-CAP 0.047
C408	87-010-405-080		CAP, ELECT 10-50V	C771	87-010-407-080		CAP, ELECT 33-50V
C409	87-010-380-080		CAP, ELECT 47-16V	C772	87-010-194-080		CAP, CHIP 0.047
C410	87-010-380-080		CAP, ELECT 47-16V	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-010-405-080		CAP, ELECT 10-50V	C774	87-010-263-080		CAP, ELECT 100-10V
C412	87-010-112-080		CAP, ELECT 100-16V	C775	87-010-404-080		CAP, ELECT 4.7-50V
C415	87-010-184-080		CHIP CAPACITOR,3300P (K)	C776	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-184-080		CHIP CAPACITOR,3300P (K)	C777	87-010-400-080		CAP, ELECT 0.47-50V
C453	87-010-544-080		CAP, ELECT 0.1-50V	C778	87-010-401-080		CAP, ELECT 1-50V
C454	87-010-544-080		CAP, ELECT 0.1-50V	C779	87-010-401-080		CAP, ELECT 1-50V
C457	87-010-402-080		CAP, ELECT 2.2-50V	C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C458	87-010-402-080		CAP, ELECT 2.2-50V	C781	87-010-405-080		CAP, ELECT 10-50V
C459	87-010-402-080		CAP, ELECT 2.2-50V	C782	87-010-405-080		CAP, ELECT 10-50V
C460	87-010-402-080		CAP, ELECT 2.2-50V	C783	87-015-819-080		CAPACITOR,0.01
C461	87-010-545-080		CAP, ELECT 0.22-50V	C784	87-010-197-080		CAP, CHIP 0.01 DM
C463	87-010-402-080		CAP, ELECT 2.2-50V	C785	87-010-403-080		CAP, ELECT 3.3-50V
C464	87-010-402-080		CAP, ELECT 2.2-50V	C786	87-010-403-080		CAP, ELECT 3.3-50V
C516	87-010-196-080		CHIP CAPACITOR,0.1-25	C787	87-010-184-080		CHIP CAPACITOR,3300P (K)
C551	87-010-401-080		CAP, ELECT 1-50V<LH>	C788	87-010-184-080		CHIP CAPACITOR,3300P (K)
C552	87-010-263-080		CAP, ELECT 100-10V<LH>	C789	87-010-179-080		CAP,CHIP S B1200P
C553	87-010-380-080		CAP, ELECT 47-16V<LH>	C790	87-010-179-080		CAP,CHIP S B1200P
C601	87-010-180-080		C-CER 1500P	C791	87-010-405-080		CAP, ELECT 10-50V
C602	87-010-180-080		C-CER 1500P	C793	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-016-081-080		C-CAP,S 0.1-16 RK	C794	87-010-406-080		CAP, ELECT 22-50
C614	87-016-081-080		C-CAP,S 0.1-16 RK	C795	87-010-596-080		CAP, S 0.047-16
C619	87-010-185-080		C-CAP,S 3900P-50 B	C796	87-010-403-080		CAP, ELECT 3.3-50V
C620	87-010-185-080		C-CAP,S 3900P-50 B	C797	87-010-182-080		C-CAP,S 2200P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V	C798	87-010-182-080		C-CAP,S 2200P-50 B
C622	87-010-401-080		CAP, ELECT 1-50V	C799	87-010-194-080		C-CAP, CHIP 0.047

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C812	87-010-197-080		CAP, CHIP 0.01 DM	C115	87-010-182-080		C-CAP,S 2200P-50 B
C814	87-010-197-080		CAP, CHIP 0.01 DM	C116	87-010-075-040		CAP,E 10-16 5L
C820	87-010-408-080		CAP, ELECT 47-50V	C117	87-012-157-080		C-CAP,S 330P-50 CH
C821	87-010-197-080		CAP, CHIP 0.01 DM	C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C822	87-010-197-080		CAP, CHIP 0.01 DM	C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C823	87-010-197-080		CAP, CHIP 0.01 DM	C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	C121	87-010-194-080		CAP, CHIP 0.047
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	C122	87-010-194-080		CAP, CHIP 0.047
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C124	87-010-555-040		CAP,E 100-10 GAS
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH	C201	87-010-178-080		CHIP CAP 1000P
CF801	87-008-261-010		FILTER, SPE10.7MA5-A	C202	87-010-194-080		CAP, CHIP 0.047
CF802	87-008-261-010		FILTER, SPE10.7MA5-A	C203	87-010-408-040		CAP,E 47-50 SME
FB601	87-A50-190-080		C-COIL,S BLM21A102S	C204	87-010-404-040		CAP,E 4.7-50 SME
FC451	88-905-361-110		FF-CABLE,5P 1.25 360MM	C205	87-010-404-040		CAP,E 4.7-50 SME
FC602	85-NF5-617-010		FF-CABLE,6P 1.25	C371	87-010-196-080		CHIP CAPACITOR,0.1-25
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM	C372	87-010-196-080		CHIP CAPACITOR,0.1-25
J211	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C373	87-010-196-080		CHIP CAPACITOR,0.1-25
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05	C374	87-010-196-080		CHIP CAPACITOR,0.1-25
J601	87-A60-402-010		JACK,PIN 6P R/W HSP-246V30	C375	87-010-196-080		CHIP CAPACITOR,0.1-25
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C376	87-012-158-080		C-CAP,S 390P-50 CH
L201	87-003-383-010		COIL,1UH-S	C377	87-010-196-080		CHIP CAPACITOR,0.1-25
L202	87-003-383-010		COIL,1UH-S	C402	87-010-196-080		CHIP CAPACITOR,0.1-25
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C404	87-010-196-080		CHIP CAPACITOR,0.1-25
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C406	87-010-196-080		CHIP CAPACITOR,0.1-25
L351	87-007-342-010		COIL,OSC 85K BIAS	C408	87-010-196-080		CHIP CAPACITOR,0.1-25
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C501	87-010-319-080		C-CAP,S 56P-50 CH
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)	C502	87-010-319-080		C-CAP,S 56P-50 CH
L781	87-005-847-080		COIL,2.2UH(CBCS)	C503	87-012-393-080		C-CAP,S 0.22-16 R K
L791	87-A50-209-010		COIL,1 POLE MPX (MIT)	C504	87-010-197-080		CAP, CHIP 0.01 DM
L792	87-A50-209-010		COIL,1 POLE MPX (MIT)	C505	87-010-180-080		C-CER 1500P
L832	86-NFZ-694-080		COIL,2.2UH K CECS	C506	87-010-213-080		C-CAP,S 0.015-50 B
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)	C507	87-010-213-080		C-CAP,S 0.015-50 B
M451	87-A90-796-010		FAN,F614R-12MC-15-30MM<LH>	C508	87-010-197-080		CAP, CHIP 0.01 DM
R123	87-022-200-080		RESISTOR, METAL 0.56 1W<U>	C509	87-010-181-080		CAP,CHIP S 1800P
R237	87-A00-262-080		RES,M/F 0.15-2W J	C510	87-010-196-080		CHIP CAPACITOR,0.1-25
R238	87-A00-262-080		RES,M/F 0.15-2W J	C511	87-010-544-040		CAP,E 0.1-50 SME
R239	87-A00-262-080		RES,M/F 0.15-2W J	C512	87-010-374-040		CAP,E 47-10
R240	87-A00-262-080		RES,M/F 0.15-2W J	C513	87-010-401-040		CAP,E 1-50 SME
RY101	87-045-389-010		RELAY, 12V OSA-SS-212 DM5	C514	87-010-401-040		CAP,E 1-50 SME
SFR301	87-A90-557-080		SFR,33K H HOKU	C515	87-010-183-080		C-CAP,S 2700P-50 B
SFR302	87-A90-557-080		SFR,33K H HOKU	C516	87-010-183-080		C-CAP,S 2700P-50 B
SFR303	87-A90-557-080		SFR,33K H HOKU	C518	87-010-196-080		CHIP CAPACITOR,0.1-25
SFR304	87-A90-557-080		SFR,33K H HOKU	C519	87-010-264-040		CAP,E 100-10 5L
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA	C523	87-012-141-080		CHIP-CAPACITOR,0.22-16F
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA	C601	87-010-405-040		CAP,E 10-50
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA	C602	87-010-186-080		CAP,CHIP 4700P
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA	C603	87-010-378-040		CAP,E 10-16
TH201	87-A90-221-080		C-THMS,100K<LH>	C604	87-010-382-040		CAP,E 22-25 SME
TH202	87-A90-221-080		C-THMS,100K<LH>	C605	87-010-196-080		CHIP CAPACITOR,0.1-25
W104	85-NF5-628-010		F-CABLE 7P-2.5	C607	87-010-321-080		CHIP CAPACITOR,82P(J)
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C608	87-010-196-080		CHIP CAPACITOR,0.1-25
				C609	87-010-545-040		CAP,E 0.22-50 SME
				C611	87-010-177-080		C-CAP,S 820P-50 SL
				C614	87-A10-189-040		CAP,E 220-10
FRONT C.B				C651	87-010-401-040		CAP,E 1-50 SME
C101	87-010-263-040		CAP,E 100-10	C652	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-010-196-080		CHIP CAPACITOR,0.1-25	C653	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-196-080		CHIP CAPACITOR,0.1-25	C901	87-010-263-040		CAP,E 100-10
C104	87-010-494-040		CAP,E 1-50 GAS	C902	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-178-080		CHIP CAP 1000P	C903	87-010-313-080		CAP, CHIP 18P
C106	87-A10-189-040		CAP,E 220-10	C904	87-012-155-080		C-CAP 180P-50CH
C107	87-010-197-080		CAP, CHIP 0.01 DM	C905	87-010-400-040		CAP,E 0.47-50
C108	87-010-196-080		CHIP CAPACITOR,0.1-25	FB601	87-008-372-080		FILTER, EMI BL OIRNI
C109	87-010-194-080		CAP, CHIP 0.047	FL201	88-NF5-611-010		FL,BJ609GK
C110	87-012-157-080		C-CAP,S 330P-50 CH	J601	87-A60-284-010		JACK,3.5MO (MSC)
C111	87-010-320-080		CHIP CAP 68P	J602	87-A60-284-010		JACK,3.5MO (MSC)
C112	87-010-312-080		C-CAP,S 15P-50 CH	L501	87-005-448-080		COIL 220UH,K
C113	87-010-316-080		C-CAP,S 33P-50 CH	L901	87-007-340-010		COIL,CLOCK 4.19MHZ
C114	87-010-182-080		C-CAP,S 2200P-50 B	LED401	87-A90-783-080		LED,SLZ-781C-06H-S-T2

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED402	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S345	87-A90-095-080		SW,TACT EVQ11G04M
LED403	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S346	87-A90-095-080		SW,TACT EVQ11G04M
LED404	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S347	87-A90-095-080		SW,TACT EVQ11G04M
LED405	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S348	87-A90-095-080		SW,TACT EVQ11G04M
LED406	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S349	87-A90-095-080		SW,TACT EVQ11G04M
LED407	87-A90-783-080		LED,SLZ-781C-06H-S-T2	S350	87-A90-095-080		SW,TACT EVQ11G04M
LED408	87-A90-783-080		LED,SLZ-781C-06H-S-T2	X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
LED409	87-A90-783-080		LED,SLZ-781C-06H-S-T2				
LED410	87-A90-783-080		LED,SLZ-781C-06H-S-T2				
LED411	87-A90-782-080		LED,SLZ-981C-06H-S-T2	KEY C.B			
LED412	87-A90-782-080		LED,SLZ-981C-06H-S-T2	S351	87-A90-095-080		SW,TACT EVQ11G04M
LED413	87-A90-782-080		LED,SLZ-981C-06H-S-T2	S352	87-A90-095-080		SW,TACT EVQ11G04M
LED414	87-A90-782-080		LED,SLZ-981C-06H-S-T2	S353	87-A90-095-080		SW,TACT EVQ11G04M
LED415	87-A90-782-080		LED,SLZ-981C-06H-S-T2	S354	87-A90-095-080		SW,TACT EVQ11G04M
LED416	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	S355	87-A90-095-080		SW,TACT EVQ11G04M
LED417	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED438	87-070-201-080		LED,SLP9118C-51-S-T1
LED418	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED439	87-070-201-080		LED,SLP9118C-51-S-T1
LED419	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED440	87-070-201-080		LED,SLP9118C-51-S-T1
LED420	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED441	87-070-201-080		LED,SLP9118C-51-S-T1
LED421	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED442	87-070-201-080		LED,SLP9118C-51-S-T1
LED422	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED443	87-070-201-080		LED,SLP9118C-51-S-T1
LED423	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN				
LED424	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	HI-AMP C.B			
LED425	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN				
LED426	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	C101	87-012-368-080		C-CAP,S 0.1-50 F
LED427	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	C102	87-012-368-080		C-CAP,S 0.1-50 F
LED428	87-017-350-080		LED,SEL1550CM	C103	87-A10-520-090		CAP,E 3300-35 M SMG
LED429	87-017-350-080		LED,SEL1550CM	C104	87-A10-520-090		CAP,E 3300-35 M SMG
LED430	87-017-350-080		LED,SEL1550CM	C106	87-010-178-080		CHIP CAP 1000P
LED431	87-017-350-080		LED,SEL1550CM				
LED432	87-017-350-080		LED,SEL1550CM	C201	87-010-112-080		CAP, ELECT 100-16V
LED433	87-017-350-080		LED,SEL1550CM	C202	87-010-378-080		CAP, ELECT 10-16V
LED434	87-017-350-080		LED,SEL1550CM	C207	87-010-401-080		CAP, ELECT 1-50V
LED435	87-017-350-080		LED,SEL1550CM	C208	87-010-401-080		CAP, ELECT 1-50V
LED436	87-017-350-080		LED,SEL1550CM	C209	87-010-180-080		CAP,CHIP S B1500P
LED437	87-017-350-080		LED,SEL1550CM				
LED444	87-070-278-010		LED,SLZ-738A-24-S	C210	87-010-180-080		CAP,CHIP S B1500P
LED445	87-070-290-010		LED,SLZ 936-30-S	C211	87-010-545-080		CAP, ELECT 0.22-50V
LED446	87-070-278-010		LED,SLZ-738A-24-S	C212	87-010-545-080		CAP, ELECT 0.22-50V
LED447	87-070-278-010		LED,SLZ-738A-24-S	C213	87-010-184-080		CHIP CAPACITOR 3300P(K)
				C214	87-010-184-080		CHIP CAPACITOR 3300P(K)
LED448	87-070-290-010		LED,SLZ 936-30-S				
LED449	87-070-278-010		LED,SLZ-738A-24-S	C217	87-010-402-080		CAP, ELECT 2.2-50V
S101	87-A90-792-010		SW,RTRY EC12E12244 ENCODER	C218	87-010-402-080		CAP, ELECT 2.2-50V
S102	87-A90-535-010		SW,RTRY EC16B24304	C219	87-A10-596-080		C-CAP,S 100P-100 J CH
S301	87-A90-095-080		SW,TACT EVQ11G04M	C220	87-A10-596-080		C-CAP,S 100P-100 J CH
				C221	87-010-260-080		CAP, ELECT 47-25V
S302	87-A90-095-080		SW,TACT EVQ11G04M				
S303	87-A90-095-080		SW,TACT EVQ11G04M	C222	87-010-260-080		CAP, ELECT 47-25V
S304	87-A90-095-080		SW,TACT EVQ11G04M	C223	87-010-544-080		CAP, ELECT 0.1-50V
S305	87-A90-095-080		SW,TACT EVQ11G04M	C224	87-010-544-080		CAP, ELECT 0.1-50V
S306	87-A90-095-080		SW,TACT EVQ11G04M	C225	87-010-993-080		C-CAP,S 0.056-25 B
				C226	87-010-993-080		C-CAP,S 0.056-25 B
S307	87-A90-095-080		SW,TACT EVQ11G04M				
S308	87-A90-095-080		SW,TACT EVQ11G04M	C227	87-010-196-080		CHIP CAPACITOR,0.1-25
S309	87-A90-095-080		SW,TACT EVQ11G04M	C228	87-010-196-080		CHIP CAPACITOR,0.1-25
S310	87-A90-095-080		SW,TACT EVQ11G04M	C234	87-016-285-080		CAP,E 47-100SME
S311	87-A90-095-080		SW,TACT EVQ11G04M	C235	87-016-285-080		CAP,E 47-100SME
				C237	87-010-196-080		CHIP CAPACITOR,0.1-25
S312	87-A90-095-080		SW,TACT EVQ11G04M				
S313	87-A90-095-080		SW,TACT EVQ11G04M	C240	87-010-196-080		CHIP CAPACITOR,0.1-25
S314	87-A90-095-080		SW,TACT EVQ11G04M	C243	87-010-196-080		CHIP CAPACITOR,0.1-25
S321	87-A90-095-080		SW,TACT EVQ11G04M	J201	87-A60-545-010		JACK,PIN 4P W/R
S322	87-A90-095-080		SW,TACT EVQ11G04M	L201	87-003-383-010		COIL,1UH-S
				L202	87-003-383-010		COIL,1UH-S
S323	87-A90-095-080		SW,TACT EVQ11G04M				
S324	87-A90-095-080		SW,TACT EVQ11G04M	R243	87-A00-258-080		RES,M/F 0.22-1W J
S325	87-A90-095-080		SW,TACT EVQ11G04M	R244	87-A00-258-080		RES,M/F 0.22-1W J
S326	87-A90-095-080		SW,TACT EVQ11G04M	R245	87-A00-258-080		RES,M/F 0.22-1W J
S327	87-A90-095-080		SW,TACT EVQ11G04M	R246	87-A00-258-080		RES,M/F 0.22-1W J
				RY101	87-045-382-010		RELAY,OUAZ-SH-112L
S333	87-A90-095-080		SW,TACT EVQ11G04M				
S341	87-A90-095-080		SW,TACT EVQ11G04M	AC1 C.B			
S342	87-A90-095-080		SW,TACT EVQ11G04M				
S343	87-A90-095-080		SW,TACT EVQ11G04M	FC1	87-033-147-010		FUSE CLAMP,MT-20<LH>
S344	87-A90-095-080		SW,TACT EVQ11G04M	F101	87-035-458-010		FUSE,4A 250V T W/C<LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
△ F101	87-035-491-010		FUSE, 6A 125V D UL<U>
△ F102	87-035-458-010		FUSE, 4A 250V T W/C<LH>
△ FC2	87-033-147-010		FUSE CLAMP, MT-20<LH>
△ FC3	87-033-147-010		FUSE CLAMP, MT-20<LH>
△ FC4	87-033-147-010		FUSE CLAMP, MT-20<LH>
△ FC101	87-A90-505-080		FUSE CLAMP, TP00351-51<U>
△ FC102	87-A90-505-080		FUSE CLAMP, TP00351-51<U>
△ PT101	88-NF5-602-010		PT, LH EI96-60 8NF-5<LH>
△ PT101	88-NF5-601-010		PT, U EI85-60 8NF-5<U>
△ SW101	87-A90-165-010		SW, SL 1-2-3 SWS2301<LH>
△ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>
△ T101	87-A60-317-010		TERMINAL, 1P MSC<U>
△ T102	87-A60-317-010		TERMINAL, 1P MSC<U>
△ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>

AC2 C.B

△ PR101	87-026-691-080		FUSE, 10A 125V 251<U>
△ PR101	87-026-682-080		PROTECTOR, 10A 60V491<LH>
△ PR102	87-026-691-080		FUSE, 10A 125V 251<U>
△ PR102	87-026-682-080		PROTECTOR, 10A 60V491<LH>
△ PR103	87-026-691-080		FUSE, 10A 125V 251<U>
△ PR103	87-026-682-080		PROTECTOR, 10A 60V491<LH>
△ PR104	87-026-691-080		FUSE, 10A 125V 251<U>
△ PR104	87-026-682-080		PROTECTOR, 10A 60V491<LH>
△ PR105	87-A90-210-010		FUSE, 7A 125V 251<U>
△ PR105	87-A90-195-080		PROTECTOR, 7A 125V 49C<LH>
△ PR106	87-A90-210-010		FUSE, 7A 125V 251<U>
△ PR106	87-A90-195-080		PROTECTOR, 7A 125V 49C<LH>
W104	85-NF5-628-010		F-CABLE, 7P-2.5

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
DECK C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F
SFR1	87-024-581-019		SFR, 3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-019		SW, MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW, MICRO ESE11SH2CXQ
SW3	87-A90-248-019		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-A90-248-019		SW, MICRO ESE11SH2CXQ
SW9	87-A90-248-019		SW, MICRO ESE11SH2CXQ
W001	82-ZM3-601-019		RBN, CORD, 4P-75

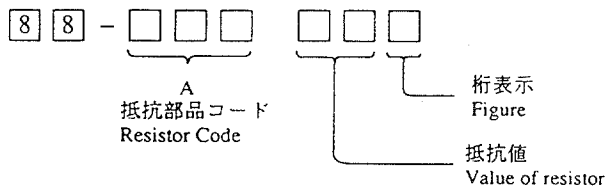
HEAD-1 C.B

HEAD-2 C.B

CON351	87-NF6-616-010		CONN ASSY, 8P-RPB
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○ 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	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



ECB

KTA1266GR
KTC3198GR



ECB

CC5551



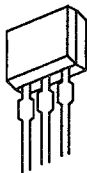
ECB

2SA1296



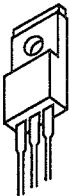
BCE

2SB1370
2SB1625
2SD2494
FN1016
FP1016



ECB

2SA933
2SC4115



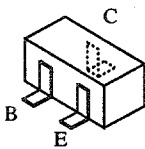
GDS

2SK2937



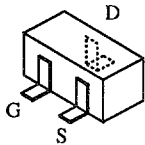
BCE

2SB1626
2SD2495



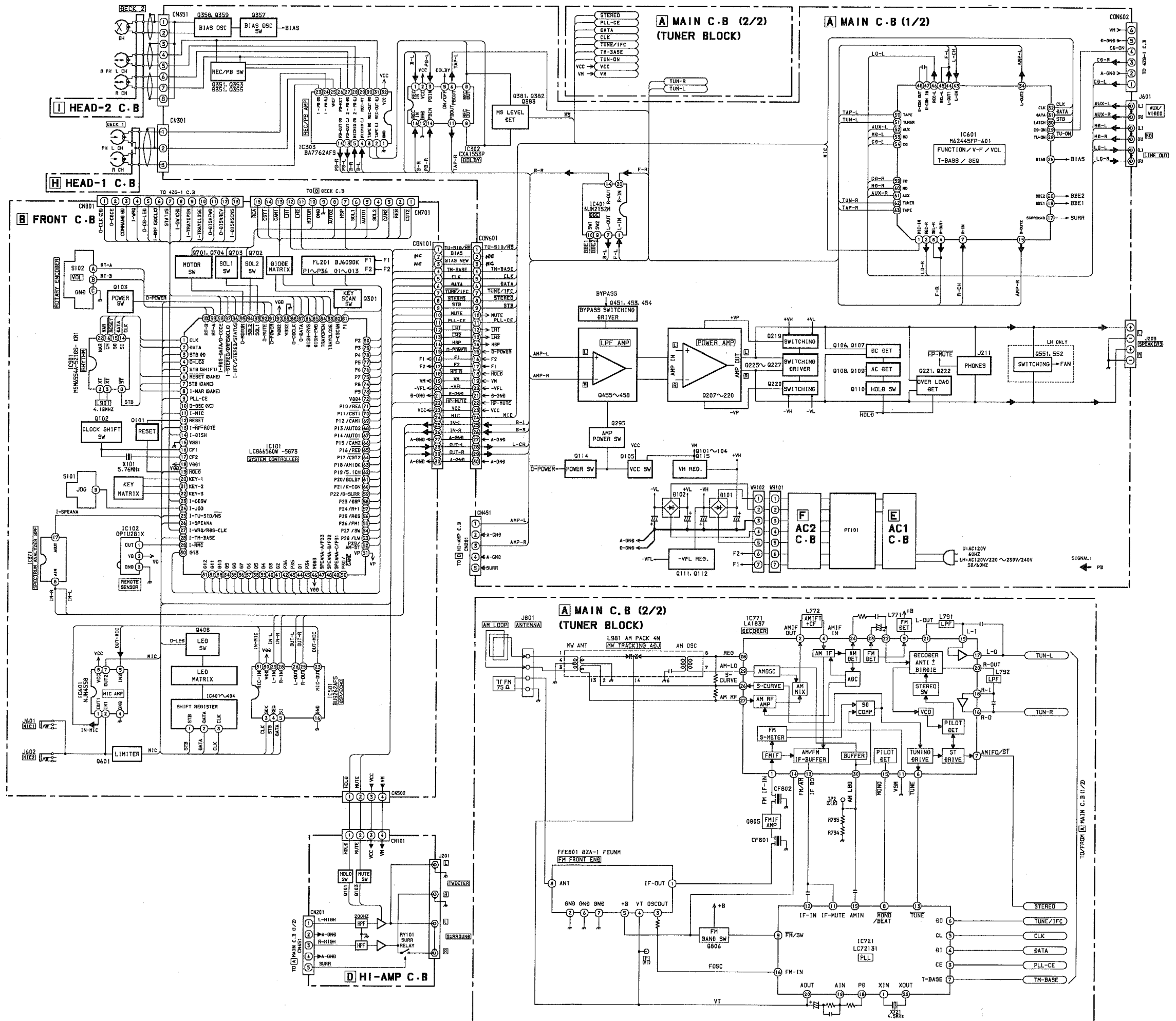
C
B
E

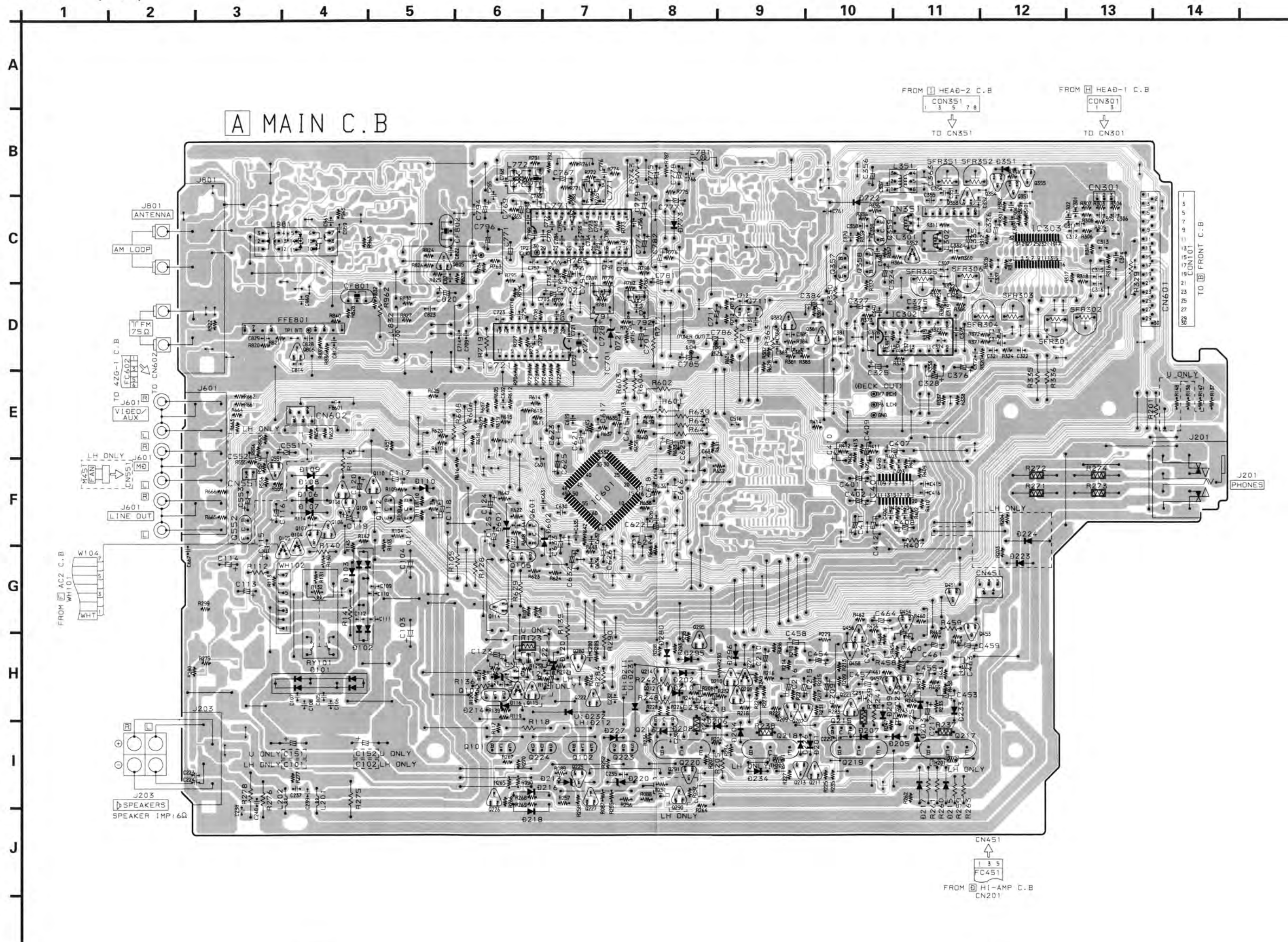
2SA1235F DTA144WK
2SC2714 RN1410
2SC3052F RT1N141C
CMBT5401 RT1N144C
CMBT5551 RT1P141C
CSA1362GR RT1P144C
CSD1306E RT1P441C
DTA123JK

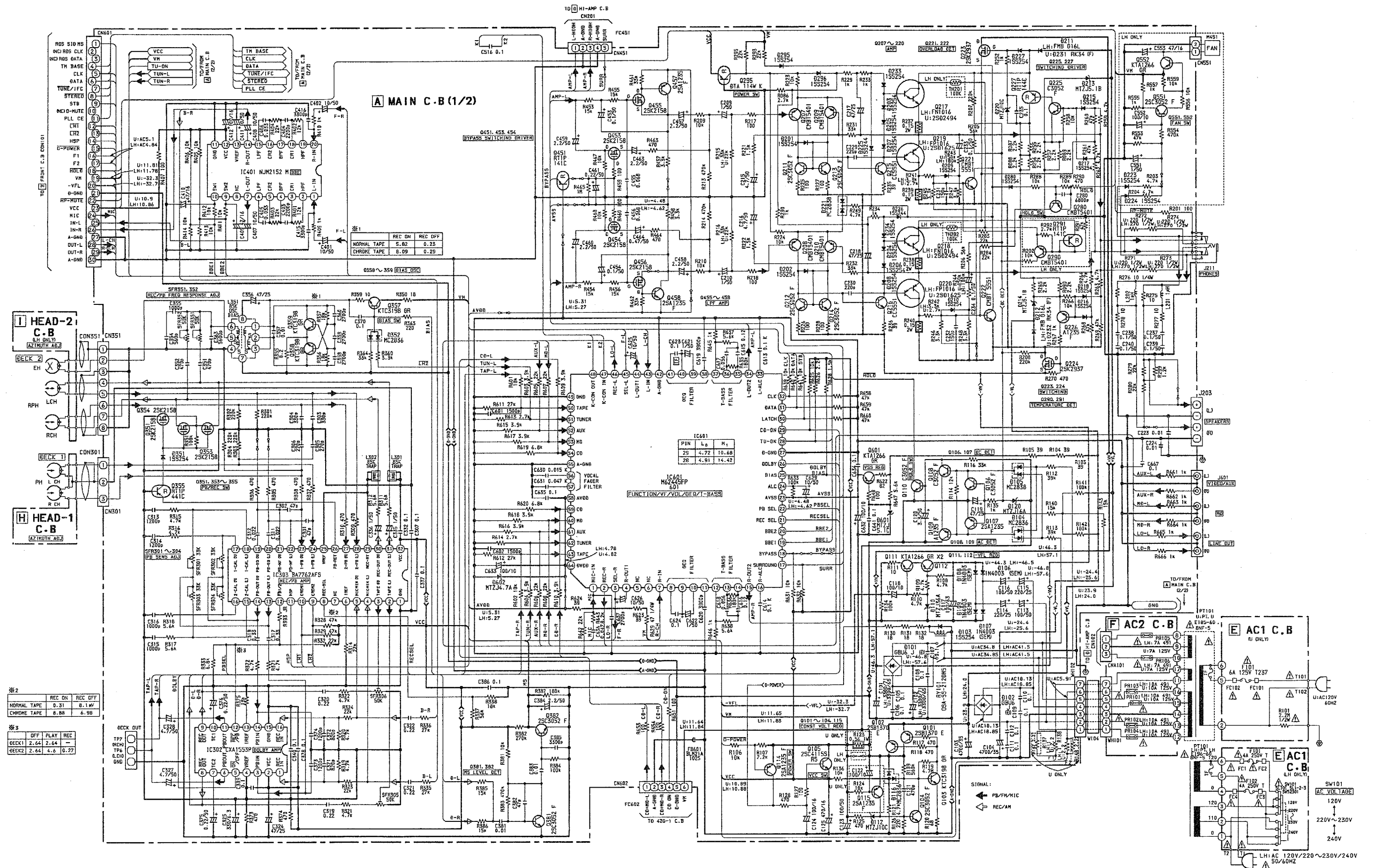


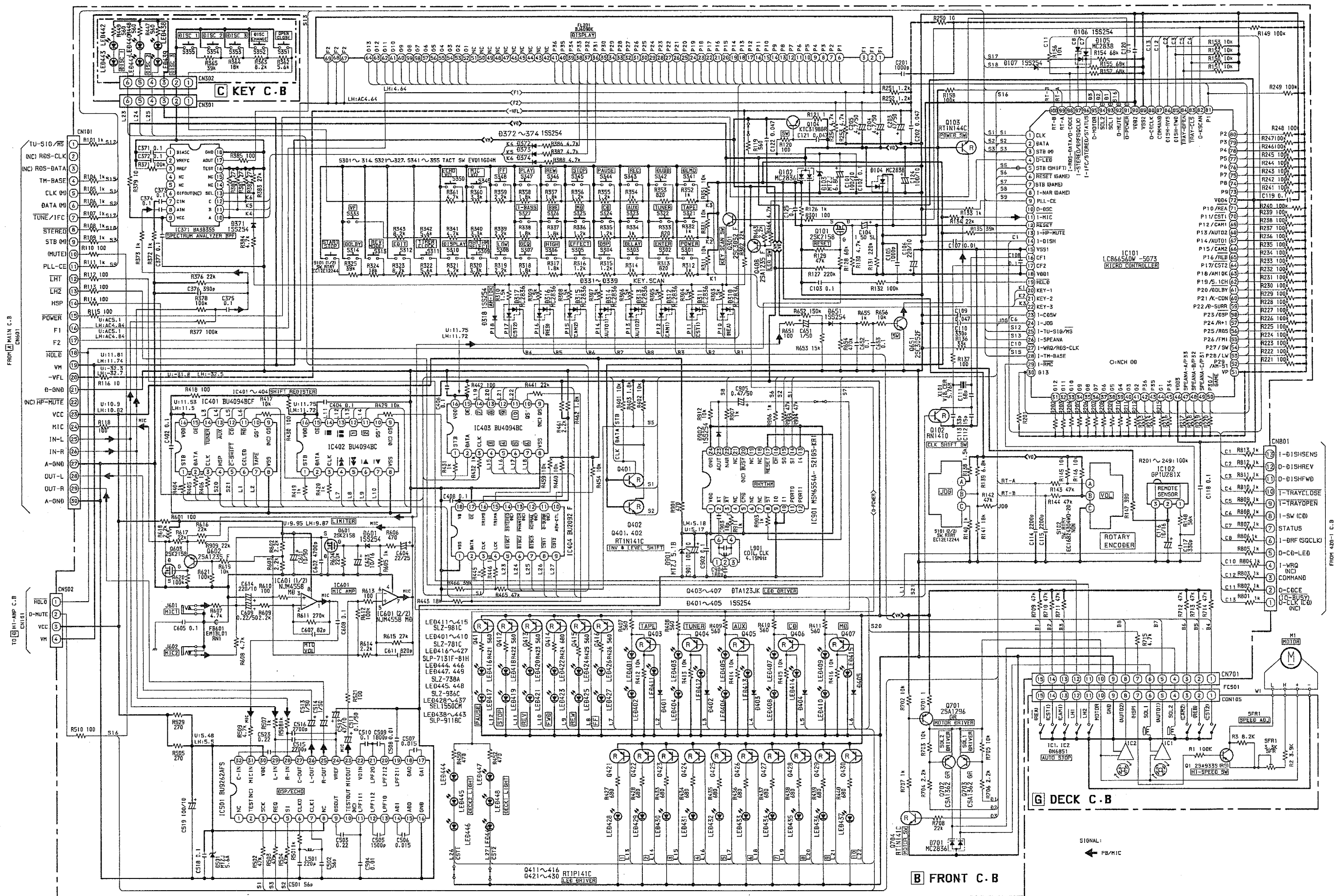
2SK2158

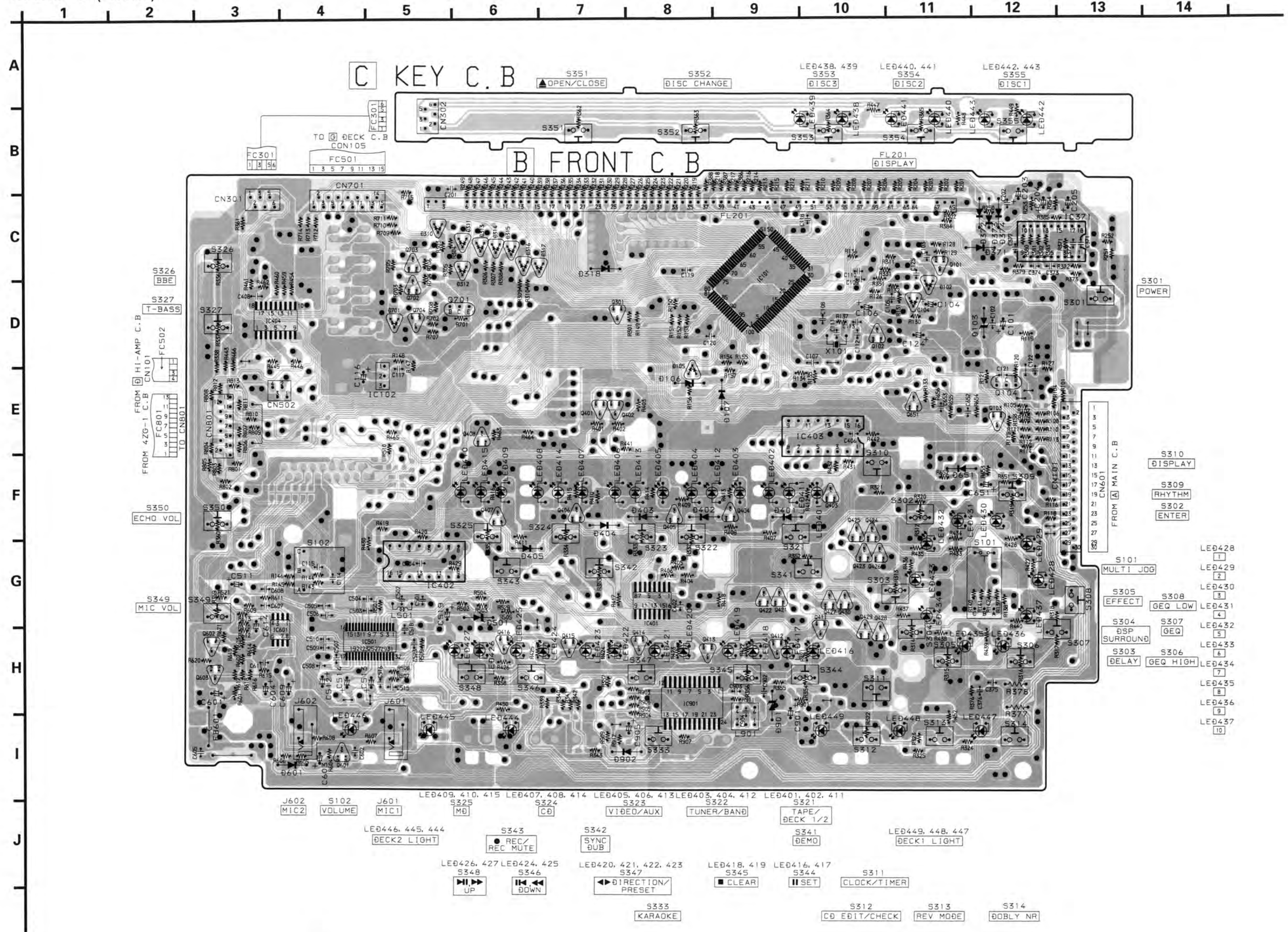
BLOCK DIAGRAM (MAIN / FRONT)



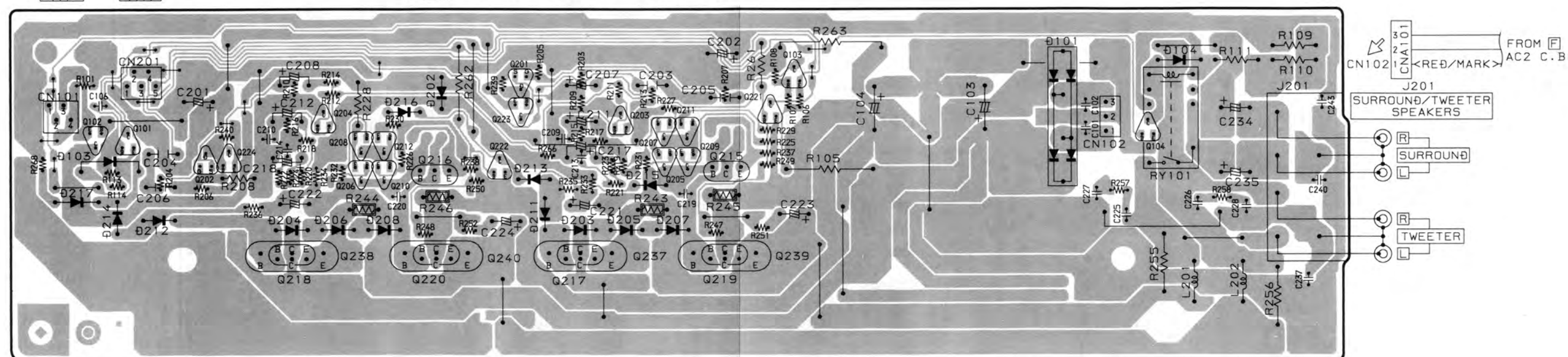


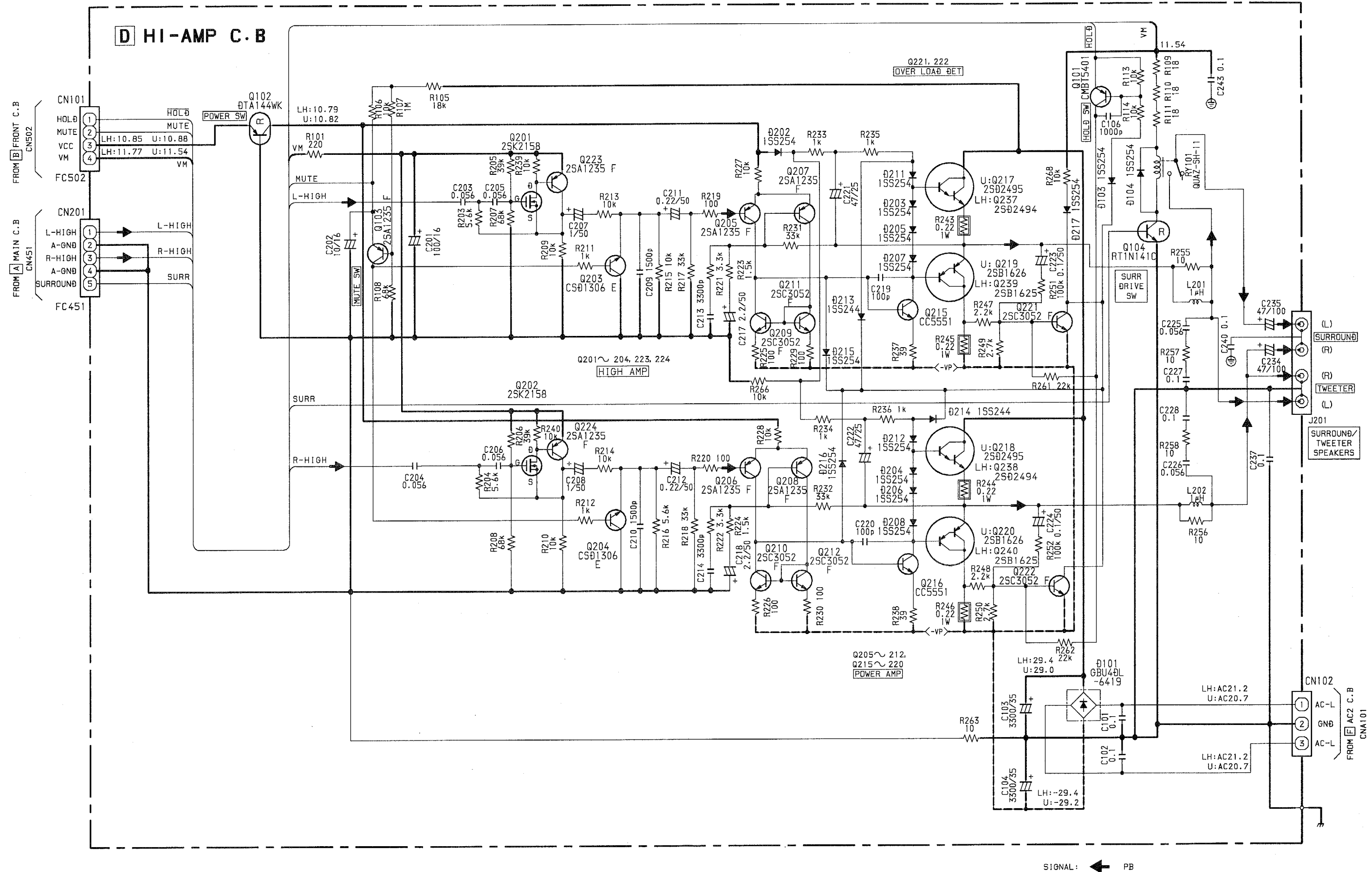


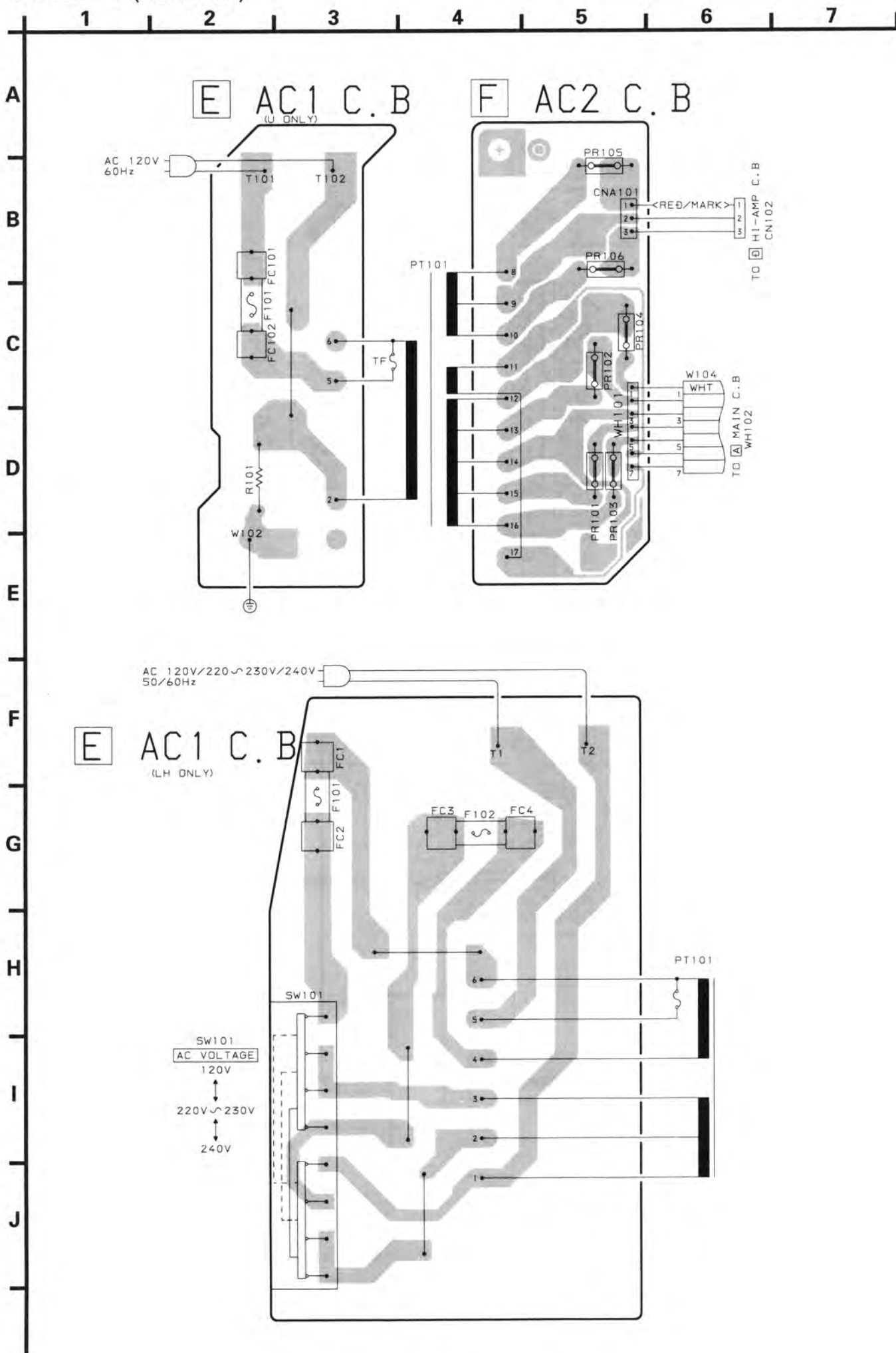




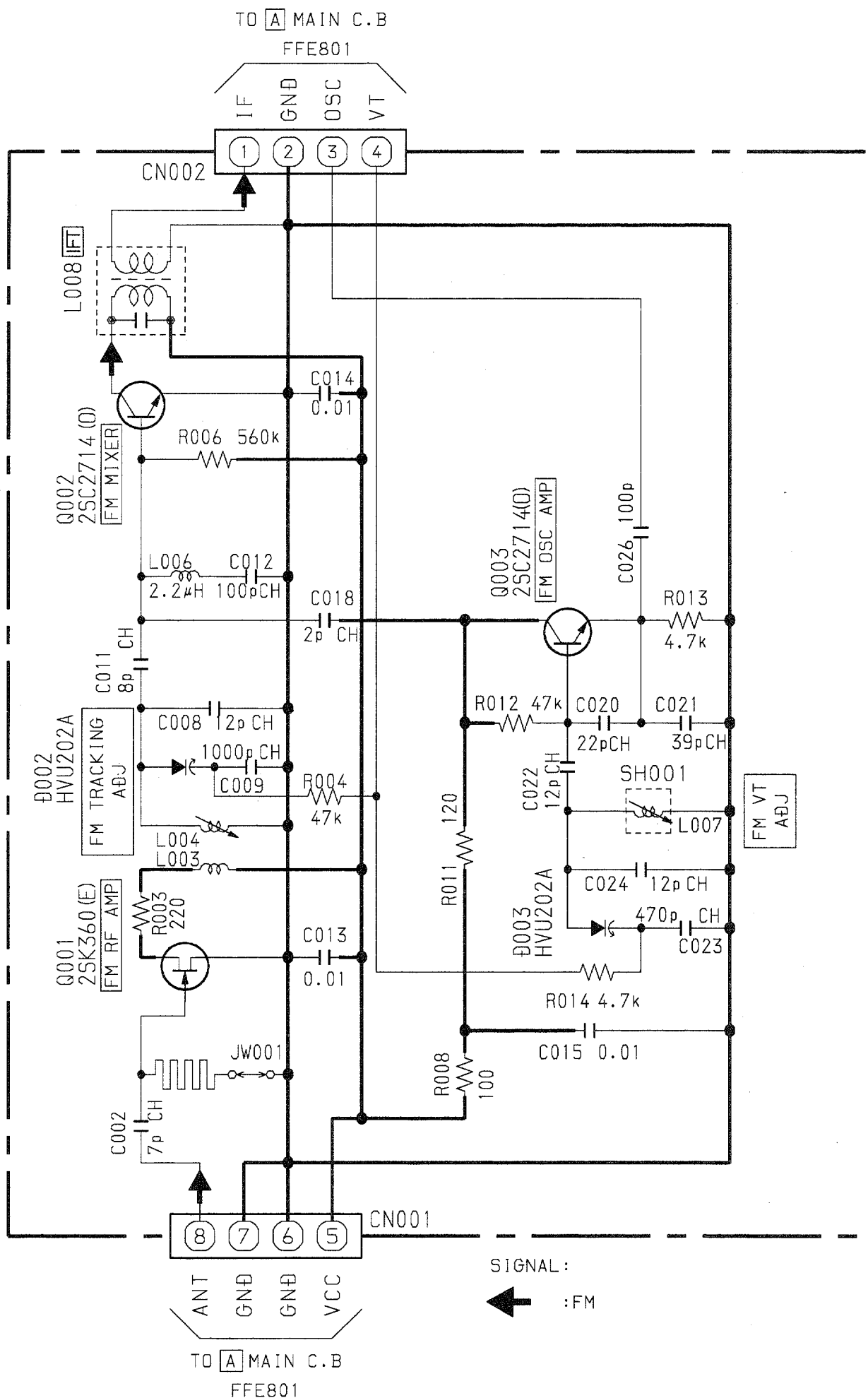
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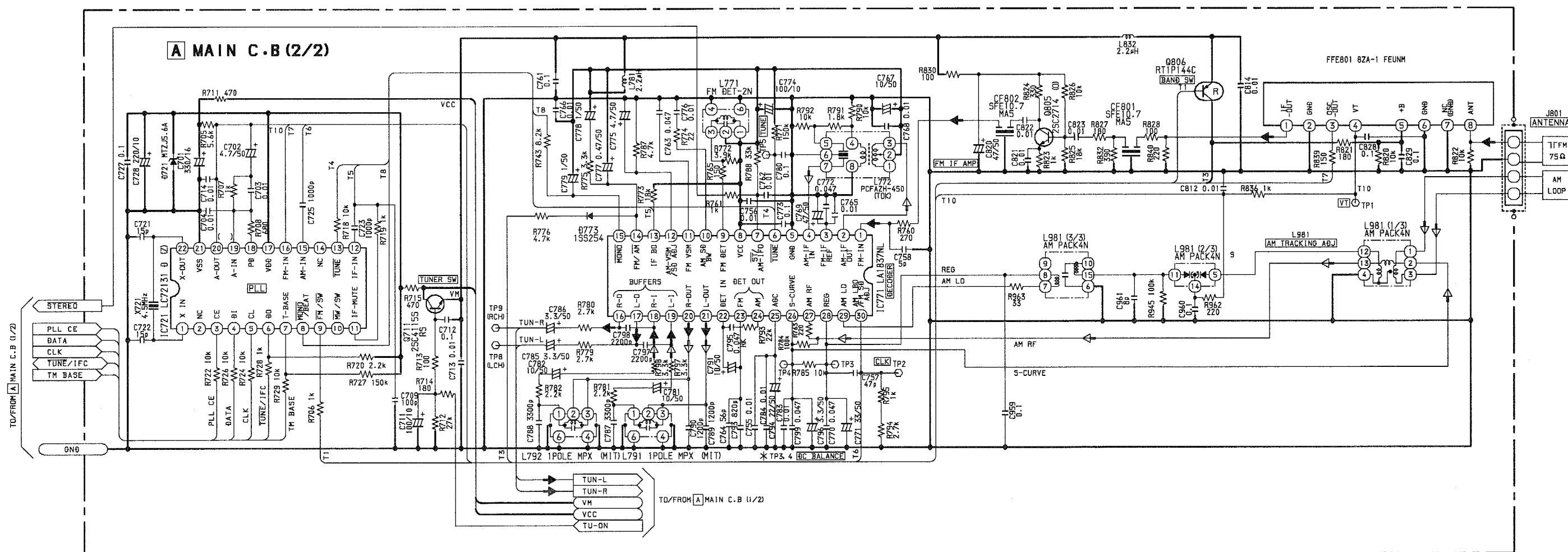






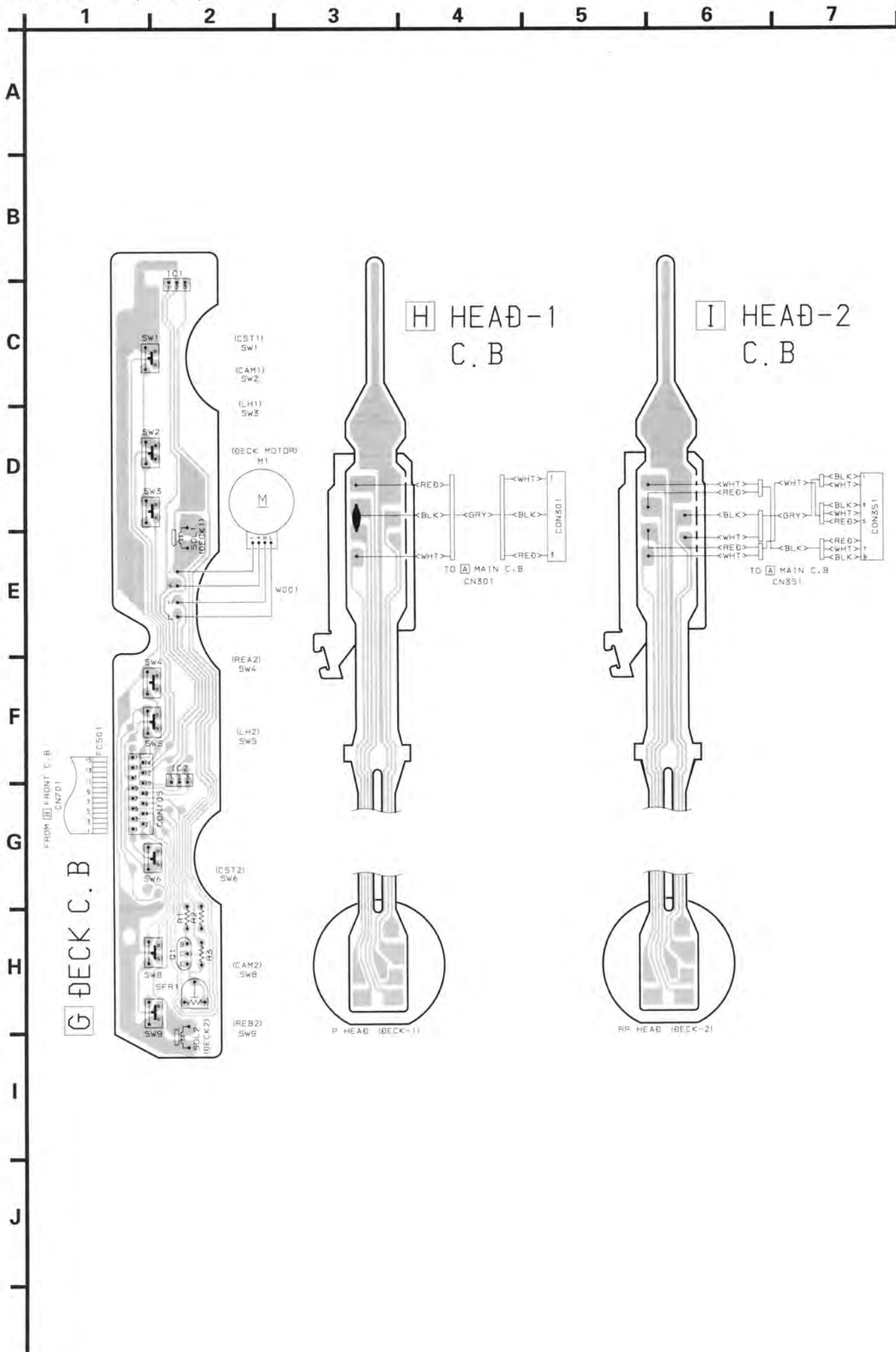
SCHEMATIC DIAGRAM - 4 (TUNER FRONT END)





SIGNAL:
 FM
 AM

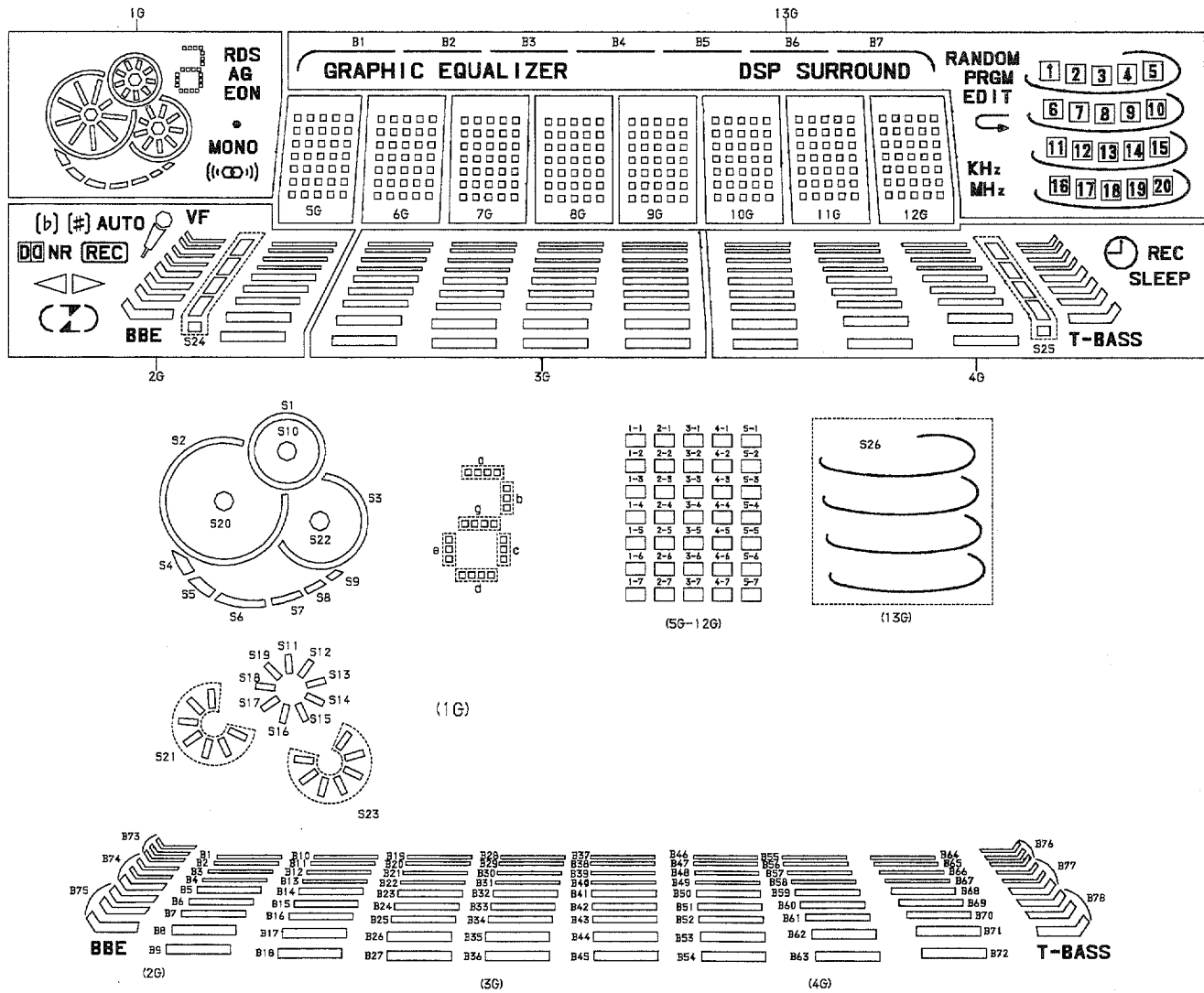
WIRING - 5 (DECK)



FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ609GK

GRID ASSIGNMENT

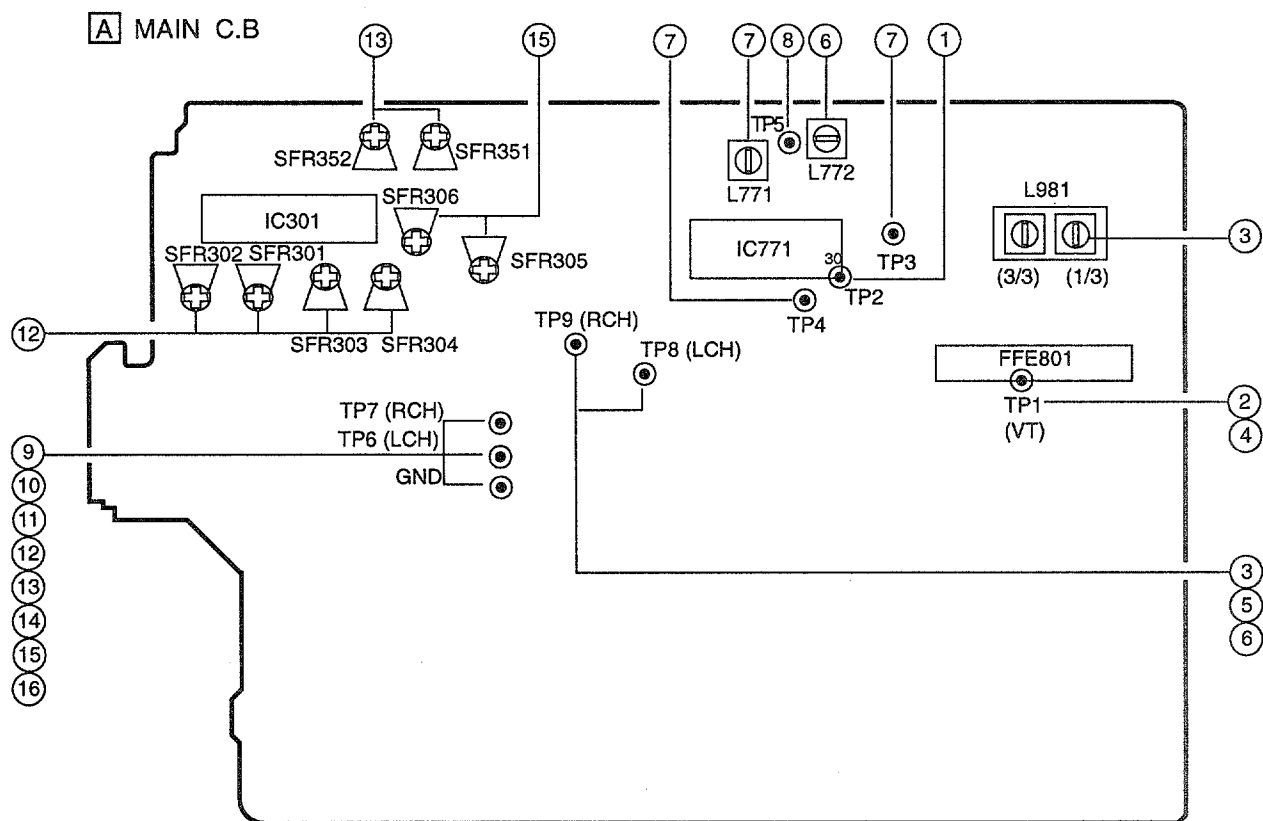


ANODE CONNECTION

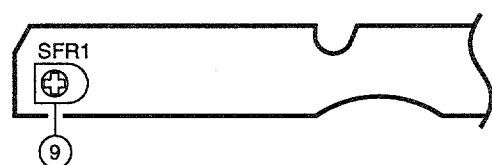
	1G	2G	3G	4G	5G-12G	13G
P1	EON	B9	B45	REC	1-1	DSP SURROUND
P2	AG	 NR	B36	B72	2-1	GRAPHIC EQUALIZER
P3		BBE	B27	B63	3-1	B7
P4	MONO	S24	B18	B54	4-1	B6
P5		BB	B44		5-1	B5
P6	RDS		B35	B71	1-2	B4
P7	b		B26	B62	2-2	B3
P8	c		B17	B53	3-2	B2
P9	a, d, g	B7	B43	SLEEP	4-2	B1
P10	e	REC	B34	B70	5-2	RANDOM
P11	S1		B25	B61	1-3	PRGM
P12	S11		B16	B52	2-3	EDIT
P13	S12	B6	B42	T-BASS	3-3	
P14	S19	b #	B33	B69	4-3	KHz
P15	S13		B24	B60	5-3	MHz
P16	S10		B15	B51	1-4	S26
P17	S18	B5	B41	B78	2-4	16
P18	S14	B75	B32	B68	3-4	11

	1G	2G	3G	4G	5G-12G	13G
P19	S17	B74	B23	B59	4-4	6
P20	S15	B73	B14	B50	5-4	1
P21	S16	B4	B40	B77	1-5	17
P22	S3	 VF	B31	B67	2-5	12
P23	S23	AUTO	B22	B58	3-5	7
P24	S22	—	B13	B49	4-5	2
P25	S9	B3	B39	B76	5-5	18
P26	S8	—	B30	B66	1-6	13
P27	S7	—	B21	B57	2-6	8
P28	S6	—	B12	B48	3-6	3
P29	S5	B2	B38	S25	4-6	19
P30	S4	—	B29	B65	5-6	14
P31	S2	—	B20	B56	1-7	9
P32	S21	—	B11	B47	2-7	4
P33	S20	B1	B37	—	3-7	20
P34	—	—	B28	B64	4-7	15
P35	—	—	B19	B55	5-7	5
P36	—	—	B10	B46	—	10

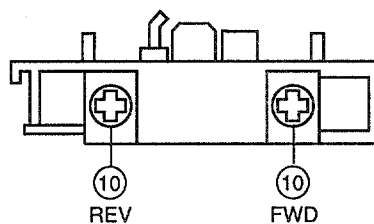
ADJUSTMENT <TUNER / DECK>



G DECK C.B



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



< TUNER SECTION >

1. Clock Frequency Check

Settings : • Test point : TP2

Method : Set to AM 1710kHz and check that the test point is 2160kHz $\pm$ 45Hz.

2. AM VT Check

Settings : • Test point : TP1

Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz).

3. AM Tracking Adjustment

Settings : • Test point : TP8(Lch), TP9(Rch)

• Adjustment location :

L981(1/3) 1000kHz

Method : Set to AM 1000kHz and adjust L981(1/3) to MAX.

4. FM VT Check

Settings : • Test point : TP1

Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.

Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
Settings : • Test point : TP8(Lch), TP9(Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9.0dB.
6. AM IF Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L772 450kHz
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4
• Adjustment location : L771
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
Next, check that the distortion is less than 1.3%
8. Auto Stop Level Check
AM
Settings : • Input level : 52dB
• Test point : TP5
Method : Set to AM 1000kHz and check that the auto stop is at 52dB +10dB / -15dB.
- FM
Settings : • Input level : 25dB
• Test point : TP5
Method : Set to FM 98.0MHz and check that the auto stop is at 25dB $\pm$ 10dB.

< DECK SECTION >

9. Tape Speed Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-100
• Test point : TP6(Lch), TP7(Rch)
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm$ 5Hz.
10. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-300
• Test point : TP6(Lch), TP7(Rch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 10kHz 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-300
• Test point : TP6(Lch), TP7(Rch)
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 2dB.
12. PB Sensitivity Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP6(Lch), TP7(Rch)
• Adjustment Location : SFR301 (DECK1,Lch)
SFR302 (DECK1,Rch)
SFR303 (DECK2,Lch)
SFR304 (DECK2,Rch)
Method : Play back the test tape and adjust SFRs so that the output level at TP6,TP7 becomes $245mV \pm 10mV$.

13. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA-602
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR351 (Lch)
SFR352 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB $\pm$ 0.5dB with respect to that of the 1kHz signal.
14. REC/PB Frequency Response Check
Settings : • Test tape : TTA-615
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz / 10kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB $\pm$ 2dB.
15. REC/PB Sensitivity Adjustment
Settings : • Test tape : TTA-602
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and adjust SFRs so that the output of the 1kHz signals becomes $0 \pm 0.5dB$.
16. REC/PB Sensitivity Check
Settings : • Test tape : TTA-615
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and check that the output is $0 \pm 1.5dB$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : Less than 10 / 9 / 9dB
(THD 3%) [at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :
Less than 35dB
[at 98.0MHz]
Signal to noise ratio : Mono : More than 72dB
Stereo : More than 66dB
[at 98.0MHz]
Distortion : Mono : Less than 1.2%
Stereo : Less than 2.0%
[at 98.0MHz]
Auto stop level : 25dB $\pm$ 10dB [at 98.0MHz]
Stereo separation : More than 30dB [at 98.0MHz]
Intermediate frequency : 10.7MHz

<MW SECTION>

Sensitivity : Less than 60dB
(S/N 20 dB) [at 600kHz]
Less than 58dB
[at 1000kHz]
Less than 58dB
[at 1400kHz]
Signal to noise ratio : More than 36dB
[at 1000kHz]
Distortion : Less than 1.5%
[at 1000kHz]
Auto stop level : 52dB +10/-15dB
[at 1000kHz]
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz $\pm$ 45Hz
Wow & flutter : Less than 0.15%
(W.R.M.S)
Take-up torque : 30 ~ 55g-cm
(FWD, REV)
F.F torque : 75 ~ 160g-cm
REW torque : 75 ~ 160g-cm
Back tension : 2 ~ 7g-cm
(FWD, REV)
PB output level : 245mV $\pm$ 1dB
(SP OUT 2V)
REC/PB output level : -3.0dB $\pm$ 1dB (NORM)
-3.5dB $\pm$ 1dB (CrO₂)
(SP OUT 2V)
Distortion (REC/PB) : Less than 2.0%
(NORM, CrO₂)
Noise level (PB) : Less than 2.0mV
(NORM, SP OUT 2V)
Noise level (REC/PB) : Less than 3.0mV
(NORM, SP OUT 2V)
Erasing ratio : More than 60dB
(at 125Hz, +10VU)
Test tape : TTA-602 (NORMAL)
TTA-615 (CrO₂)

IC DESCRIPTION

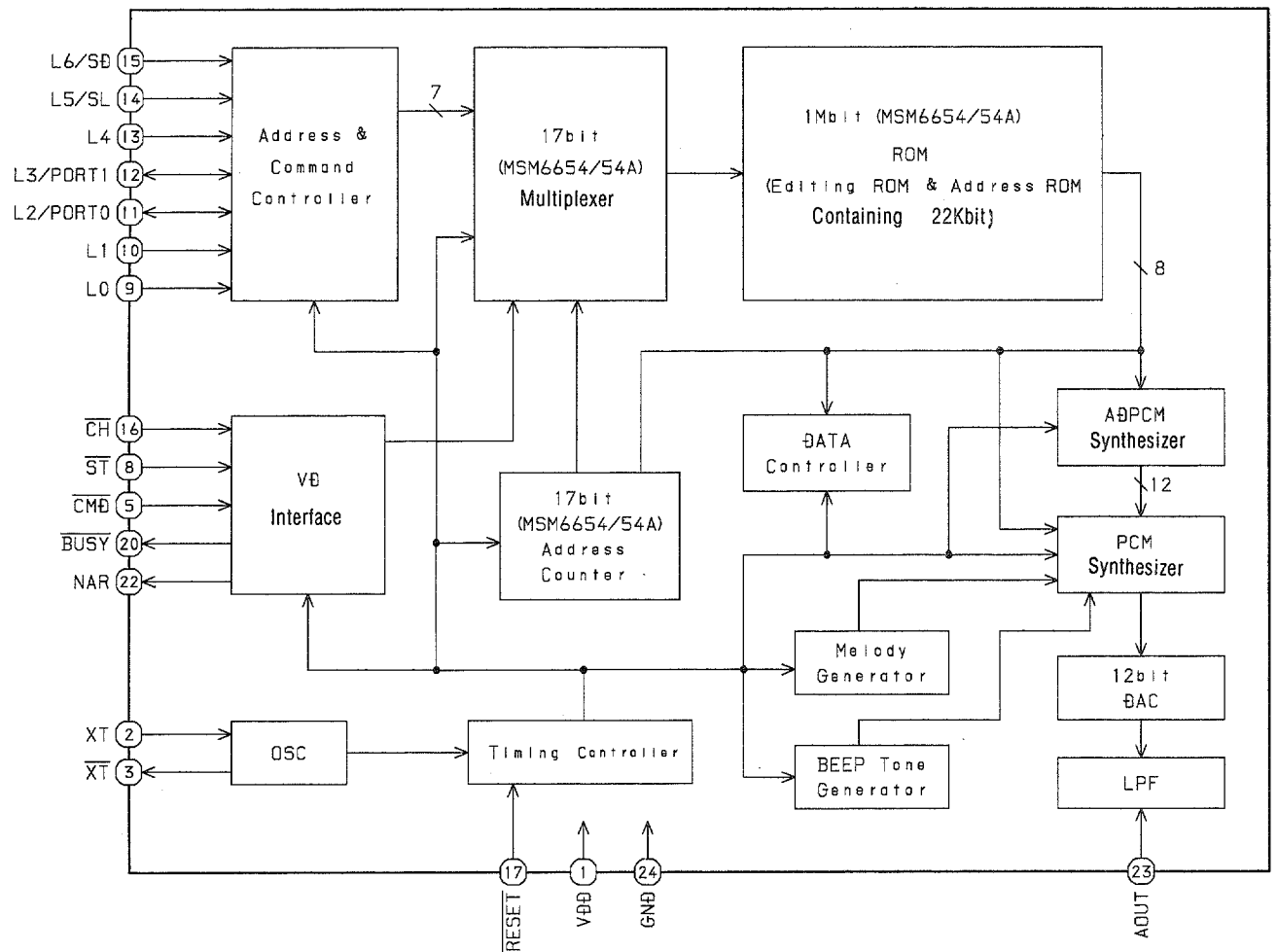
IC, LC866560W-5G73

Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	O-LED	O	LED ON/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RESET (GAME)	I	Reset input for Sound IC.
7	STB (GAME)	O	Latch strobe output for Sound IC.
8	I-NAR (GAME)	I	Sound IC NAR input.
9	PLL-CE	O	PLL IC chip enable output.
10	O-DSC	O	Serial data output for PROLOGIC PWB. (Not connected)
11	I-MIC	I	Microphone input for AUTO VF display.
12	RESET	I	Reset input.
13	I-HP-MUTE	I	Headphone input for MUTE by PROLOGIC.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	HOLD	I	Power failure detected input. “H” normal operation, “L” main power cannot be turned on.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-JOG	I	JOG dial A/D level input.
25	I-TU-SIG/MS	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input. TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	I-RMC	I	System remote control signal input.
30~41	G13~G2	O	FL GRID output G2~G13.
42, 43	P36, P35	O	FL SEGMENT output P35, P36.
44	G1	O	FL GRID output G1.
45	P34	O	FL SEGMENT output P34.
46	VDD3	–	Power supply input.
47	SPEANA-A/P33	O	Spectrum analyzer band switching output /FL segment P33 output.
48	SPEANA-B/P32	O	Spectrum analyzer band switching output /FL segment P32 output.
49	SPEANA-C/P31	O	Spectrum analyzer band switching output /FL segment P31 output.
50	P30/GAME	I/O	FL segment P30 output / GAME input to diode.
51	VP	–	Power supply input for FL display.
52	P29/AM-ST	I/O	FL segment P29 output / AM-ST input to diode.
53	P28/LW	I/O	FL segment P28 output / LW input to diode.
54	P27/SW	I/O	FL segment P27 output / SW input to diode.

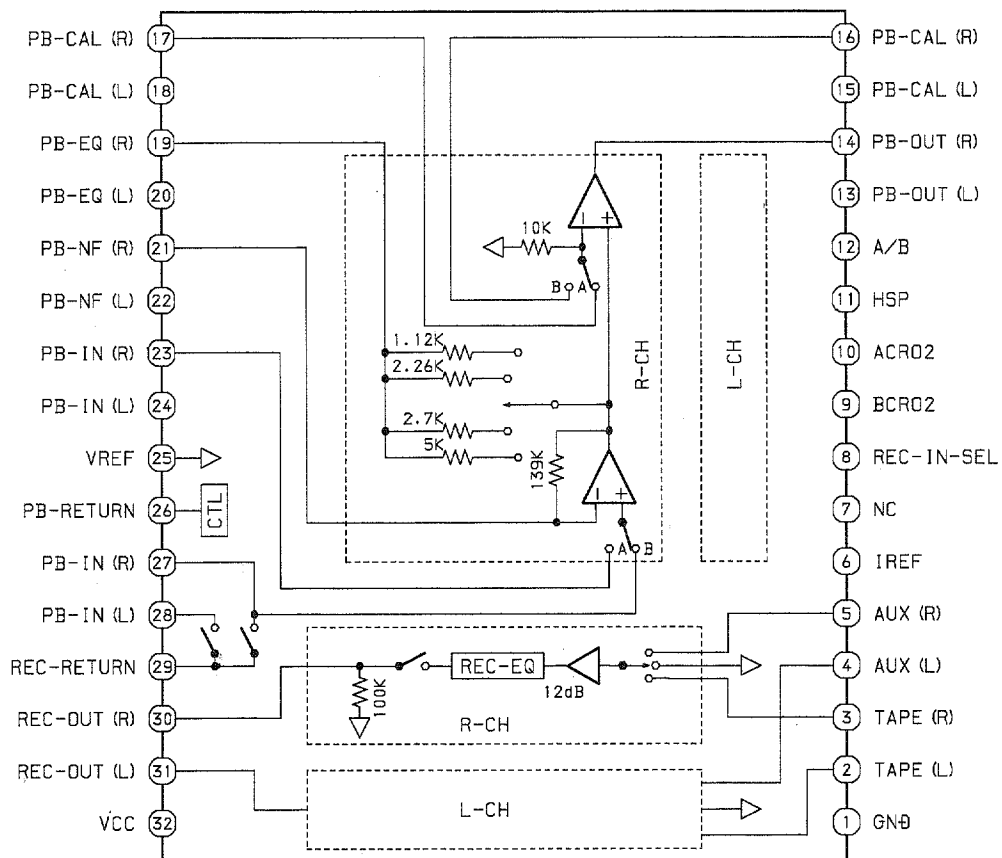
Pin No.	Pin Name	I/O	Description
55	P26/FM 1	I/O	FL segment P26 output / FM1 (OIRT) input to diode.
56	P25/RDS	I/O	FL segment P25 output / RDS input to diode.
57	P24/R+1	I/O	FL segment P24 output / RVS+1 way input to diode.
58	P23/DSP	I/O	FL segment P23 output / DSP input to diode.
59	P22/D-SURR	I/O	FL segment P22 output / SURR input to diode.
60	P21/K-CON	I/O	FL segment P21 output / K-CON input to diode.
61	P20/DOLBY	I/O	FL segment P20 output / DOLBY input to diode.
62	P19/5.1CH	I/O	FL segment P19 output / 5.1CH input to diode.
63	P18/AM10K	I/O	FL segment P18 output / AM 10kHz input to diode.
64	P17/CST 2	I/O	FL segment P17 output / DECK2 cassette detect switch data input.
65	P16/REB	I/O	FL segment P16 output / DECK2 side-B record OK switch data input.
66	P15/CAM 2	I/O	FL segment P15 output / DECK2 CAM switch data input.
67	P14/AUTO 1	I/O	FL segment P14 output / DECK1 AUTO stop signal input.
68	P13/AUTO 2	I/O	FL segment P13 output / DECK2 AUTO stop signal input.
69	P12/CAM 1	I/O	FL segment P12 output / DECK1 CAM switch data input.
70	P11/CST 1	I/O	FL segment P11 output / DECK1 cassette detect switch data input.
71	P10/REA	I/O	FL segment P10 output / DECK2 side A record OK switch data input.
72	VDD 4	-	Power supply input.
73 ~ 81	P9 ~ P1	O	FL segment P1 ~ P9 output.
82	O-KSCAN	O	Switch SCAN timing output.
83	TRAY-CLS	O	CD TRAY CLOSE data output.
84	TRAY-OPEN	O	CD TRAY OPEN data output.
85	DISH-FWD	O	CD turntable forward rotation output.
86	DISH-RVS	O	CD turntable reverse rotation output.
87	COMMAND	O	CD command output.
88	O-CDCLK	O	CD clock output.
89	VSS2	-	GND.
90	VDD2	-	Power supply input.
91	O-POWER	O	System power supply ON/OFF output.
92	O-MUTE	O	System mute ON/OFF output.
93	SOL 1	O	DECK 1 solenoid output.
94	SOL 2	O	DECK 2 solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/OFF output.
96	I-IFC/STEREO/ STATUS	I	Tune IF count serial data input / stereo detected input / CD status data input.
97	I-STEREO/ DRF(SQCLK)	I/O	Tuner stereo detected input / CD SQ CLOCK output.
98	I-RDS-DATA/ O-CDCE	I/O	RDS data input / CD chip enable output.
99	RT-A	I	Rotary encoder A input.
100	RT-B	I	Rotary encoder B input.

IC BLOCK DIAGRAM

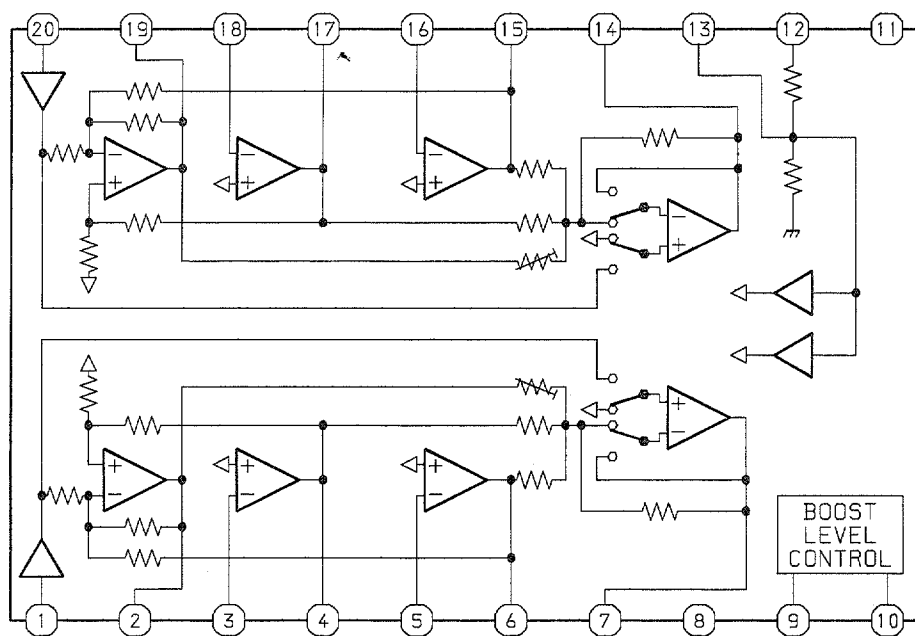
IC, MSM6654A-521GS-KR1



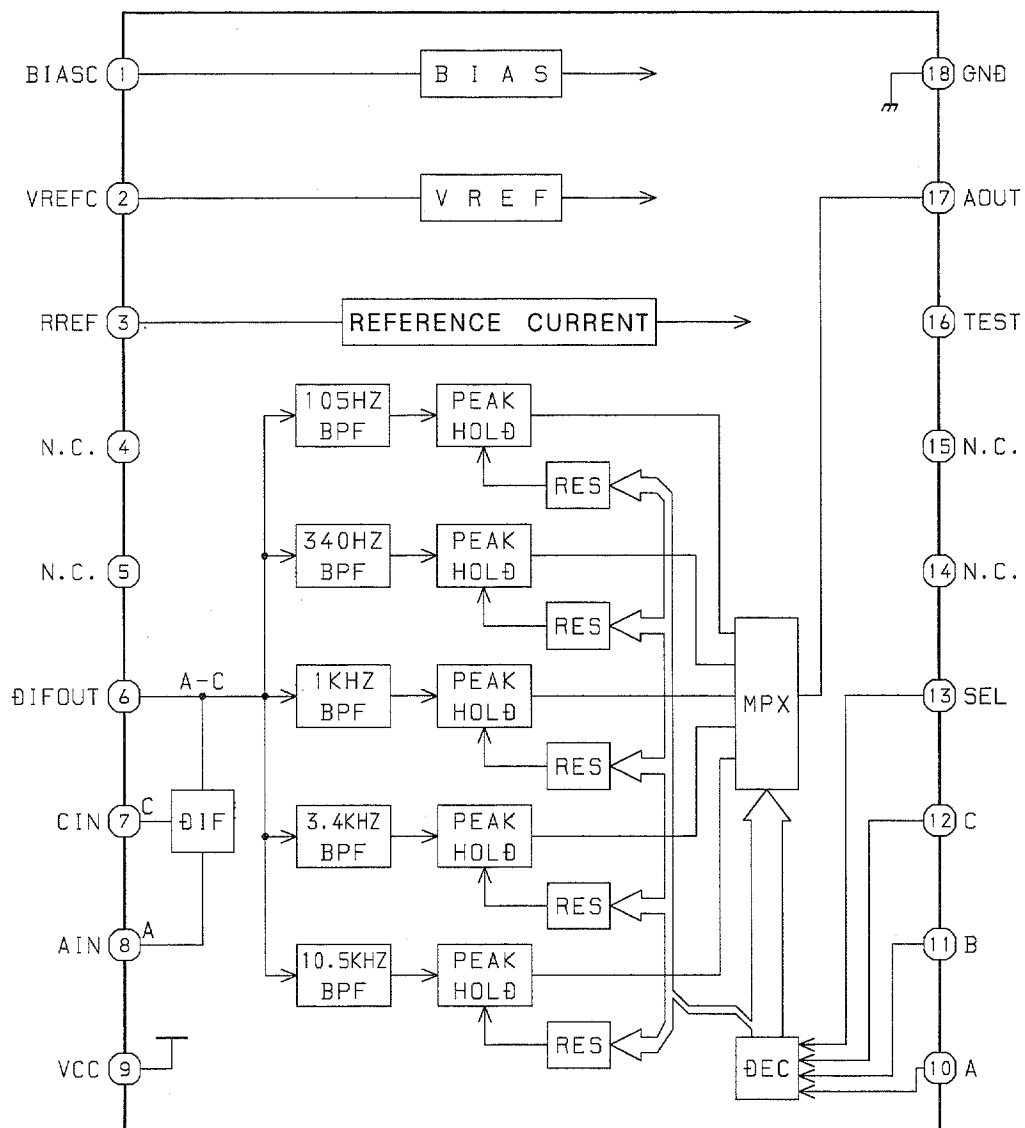
IC, BA7762FS



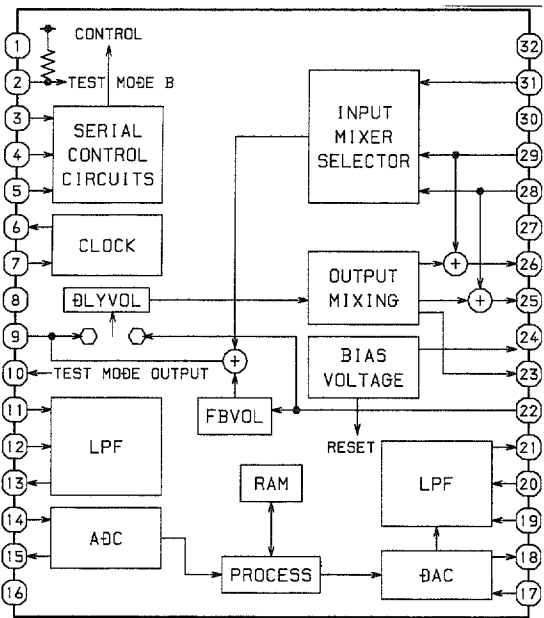
IC, NJM2152M



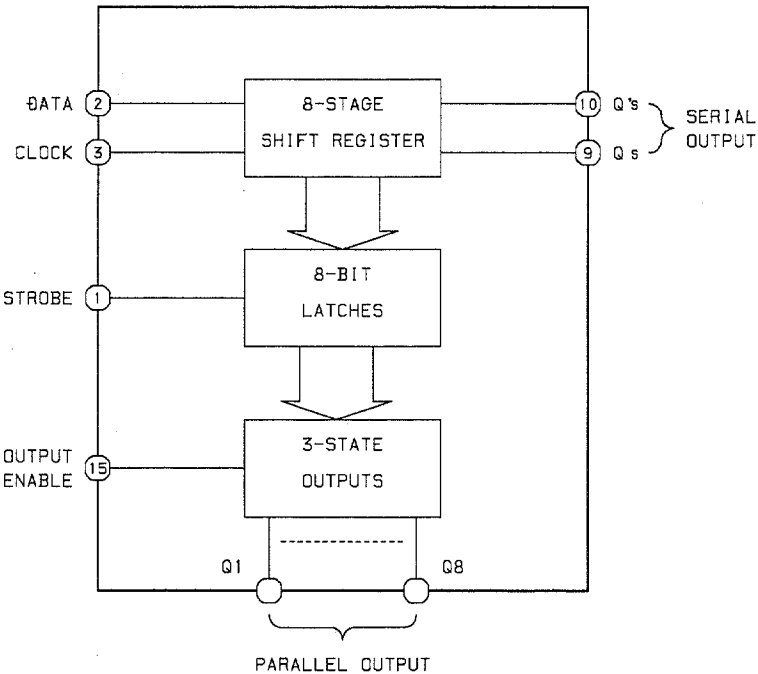
IC, BA3835S



IC, BU9262FS



IC, BU4094BCP/BCF



TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

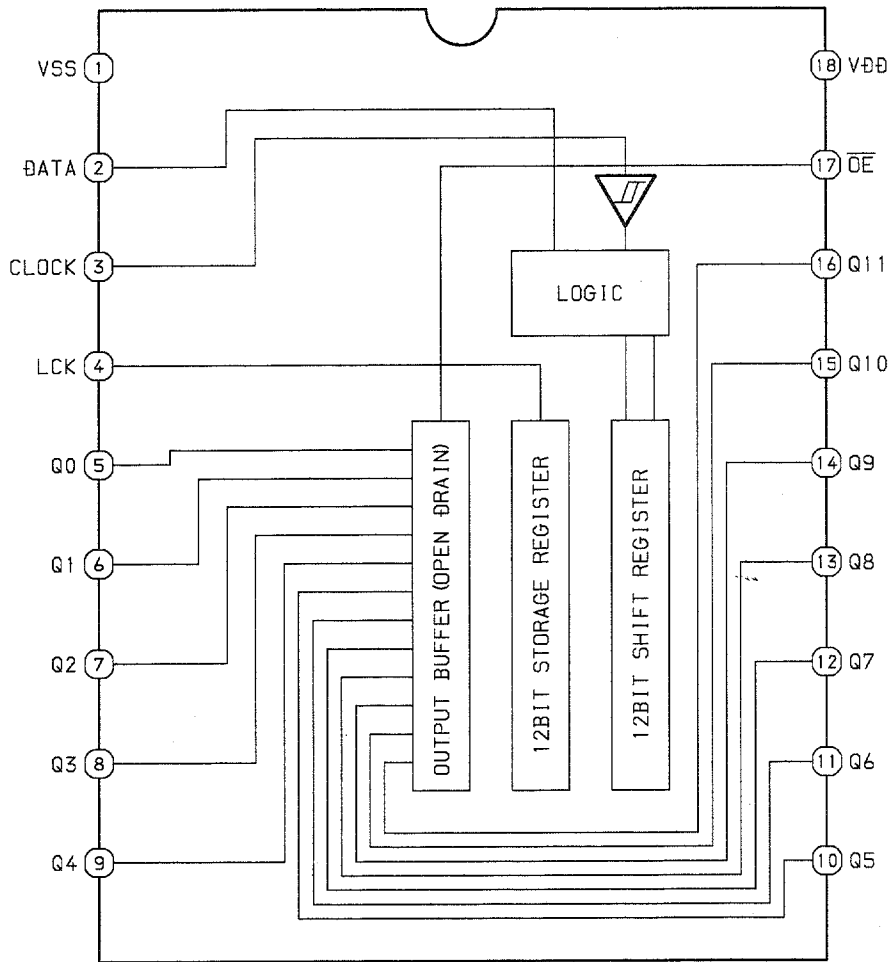
Z=High Impedance

X=Don't Care

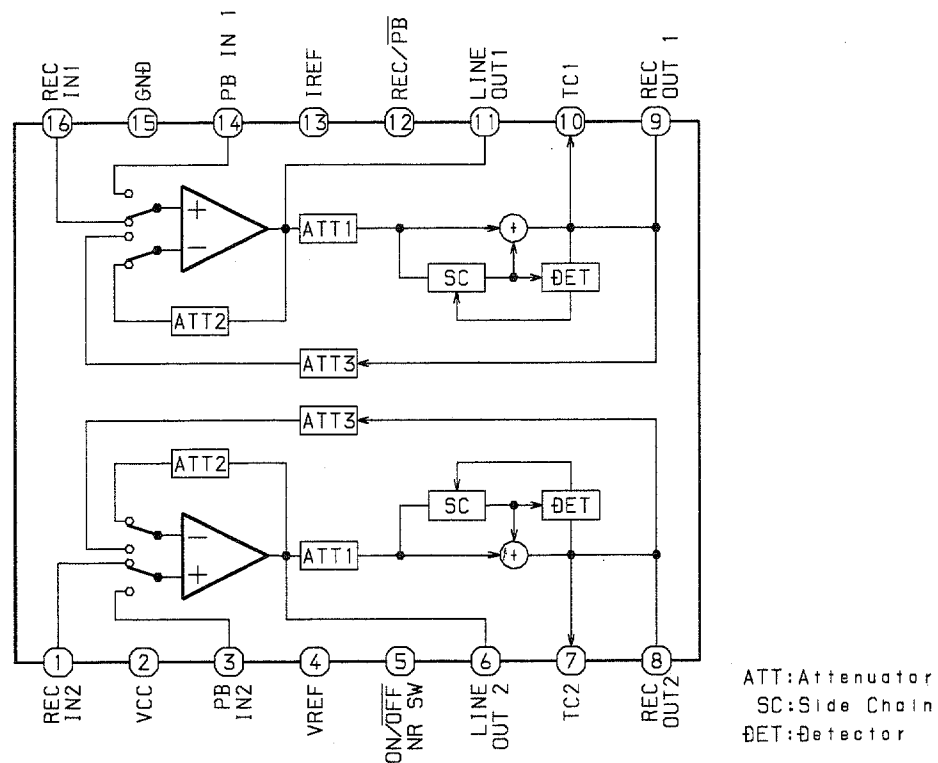
The block diagram illustrates the internal components of a stereo receiver, organized around a 30-pin connector. The pins are numbered 1 through 30, with 16 and 17 being ground connections. The circuit includes the following functional blocks and their interconnections:

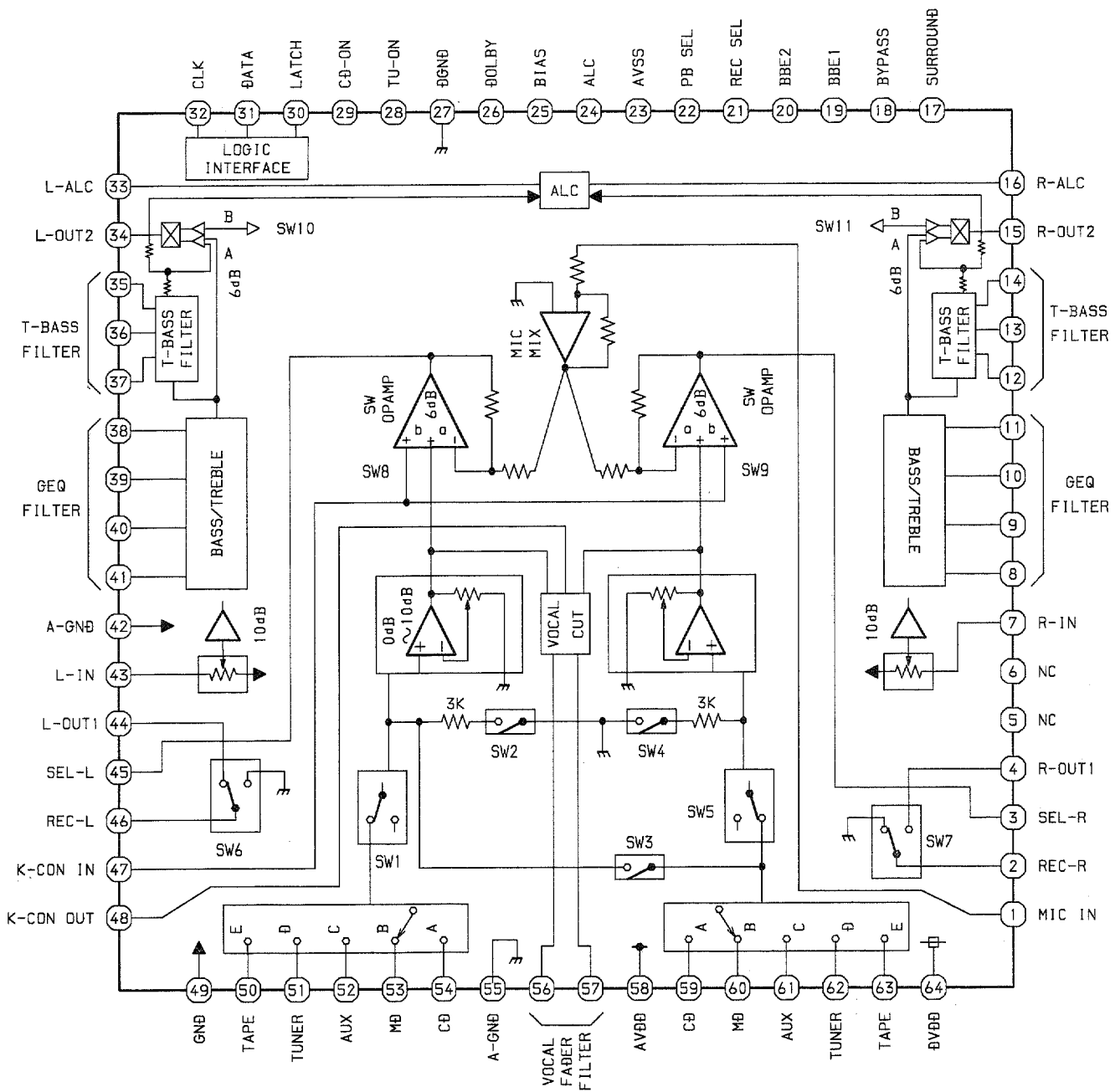
- Input and Tuning Section (Pins 1-10):**
 - FM IF (Pin 1):** Receives FM signals and outputs to **FM S-METER** (Pin 2) and **FM DET** (Pin 3).
 - FM S-METER (Pin 2):** Provides signal to **S-CURVE** (Pin 4) and **FM DET** (Pin 3).
 - S-CURVE (Pin 4):** Outputs to **FM DET** (Pin 3).
 - FM DET (Pin 3):** Outputs to **FM IF-BUFF** (Pin 5) and **TUNING DRIVE** (Pin 7).
 - FM IF-BUFF (Pin 5):** Outputs to **FM S-METER** (Pin 2) and **AM/FM IF-BUFF** (Pin 6).
 - AM/FM IF-BUFF (Pin 6):** Outputs to **AM IF** (Pin 8) and **TUNING DRIVE** (Pin 7).
 - TUNING DRIVE (Pin 7):** Outputs to **STEREO DRIVE** (Pin 9) and **PHASE DET** (Pin 22).
 - STEREO DRIVE (Pin 9):** Outputs to **PHASE DET** (Pin 22) and **PHASE DET** (Pin 21).
- AM Section (Pins 11-15):**
 - AM IF (Pin 8):** Receives AM signals and outputs to **AM S-METER** (Pin 11) and **AM RF. AMP** (Pin 12).
 - AM S-METER (Pin 11):** Outputs to **AM IF** (Pin 8) and **AM RF. AMP** (Pin 12).
 - AM RF. AMP (Pin 12):** Outputs to **AM MIX** (Pin 13) and **REC** (Pin 14).
 - AM MIX (Pin 13):** Outputs to **AM OSC** (Pin 15) and **REC** (Pin 14).
 - AM OSC (Pin 15):** Outputs to **AM MIX** (Pin 13) and **REC** (Pin 14).
 - REC (Pin 14):** Outputs to **AM MIX** (Pin 13) and **REC** (Pin 14).
- Decoder and Control Section (Pins 16-20):**
 - DECODER ANTI BIRDIE (Pin 16):** Outputs to **PHASE DET** (Pin 22) and **PHASE DET** (Pin 21).
 - PHASE DET (Pin 22):** Outputs to **PHASE DET** (Pin 21) and **PHASE DET** (Pin 20).
 - PHASE DET (Pin 21):** Outputs to **PHASE DET** (Pin 20) and **PHASE DET** (Pin 19).
 - PHASE DET (Pin 20):** Outputs to **PHASE DET** (Pin 19) and **PHASE DET** (Pin 18).
 - PHASE DET (Pin 19):** Outputs to **PHASE DET** (Pin 18) and **PHASE DET** (Pin 17).
 - PHASE DET (Pin 18):** Outputs to **PHASE DET** (Pin 17) and **PHASE DET** (Pin 16).
 - PHASE DET (Pin 17):** Outputs to **PHASE DET** (Pin 16) and **PHASE DET** (Pin 15).
 - PHASE DET (Pin 16):** Outputs to **PHASE DET** (Pin 15) and **PHASE DET** (Pin 14).
 - PHASE DET (Pin 15):** Outputs to **PHASE DET** (Pin 14) and **PHASE DET** (Pin 13).
 - PHASE DET (Pin 14):** Outputs to **PHASE DET** (Pin 13) and **PHASE DET** (Pin 12).
 - PHASE DET (Pin 13):** Outputs to **PHASE DET** (Pin 12) and **PHASE DET** (Pin 11).
 - PHASE DET (Pin 12):** Outputs to **PHASE DET** (Pin 11) and **PHASE DET** (Pin 10).
 - PHASE DET (Pin 11):** Outputs to **PHASE DET** (Pin 10) and **PHASE DET** (Pin 9).
 - PHASE DET (Pin 10):** Outputs to **PHASE DET** (Pin 9) and **PHASE DET** (Pin 8).
 - PHASE DET (Pin 9):** Outputs to **PHASE DET** (Pin 8) and **PHASE DET** (Pin 7).
 - PHASE DET (Pin 8):** Outputs to **PHASE DET** (Pin 7) and **PHASE DET** (Pin 6).
 - PHASE DET (Pin 7):** Outputs to **PHASE DET** (Pin 6) and **PHASE DET** (Pin 5).
 - PHASE DET (Pin 6):** Outputs to **PHASE DET** (Pin 5) and **PHASE DET** (Pin 4).
 - PHASE DET (Pin 5):** Outputs to **PHASE DET** (Pin 4) and **PHASE DET** (Pin 3).
 - PHASE DET (Pin 4):** Outputs to **PHASE DET** (Pin 3) and **PHASE DET** (Pin 2).
 - PHASE DET (Pin 3):** Outputs to **PHASE DET** (Pin 2) and **PHASE DET** (Pin 1).
 - PHASE DET (Pin 2):** Outputs to **PHASE DET** (Pin 1) and **PHASE DET** (Pin 0).
 - PHASE DET (Pin 1):** Outputs to **PHASE DET** (Pin 0) and **PHASE DET** (Pin 15).
 - PHASE DET (Pin 0):** Outputs to **PHASE DET** (Pin 15) and **PHASE DET** (Pin 14).
 - PHASE DET (Pin 15):** Outputs to **PHASE DET** (Pin 14) and **PHASE DET** (Pin 13).
 - PHASE DET (Pin 14):** Outputs to **PHASE DET** (Pin 13) and **PHASE DET** (Pin 12).
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 - PHASE DET (Pin 9):** Outputs to **PHASE DET** (Pin 8) and **PHASE DET** (Pin 7).
 - PHASE DET (Pin 8):** Outputs to **PHASE DET** (Pin 7) and **PHASE DET** (Pin 6).
 - PHASE DET (Pin 7):** Outputs to **PHASE DET** (Pin 6) and **PHASE DET** (Pin 5).
 - PHASE DET (Pin 6):** Outputs to **PHASE DET** (Pin 5) and **PHASE DET** (Pin 4).
 - PHASE DET (Pin 5):** Outputs to **PHASE DET** (Pin 4) and **PHASE DET** (Pin 3).
 - PHASE DET (Pin 4):** Outputs to **PHASE DET** (Pin 3) and **PHASE DET** (Pin 2).
 - PHASE DET (Pin 3):** Outputs to **PHASE DET** (Pin 2) and **PHASE DET** (Pin 1).
 - PHASE DET (Pin 2):** Outputs to **PHASE DET** (Pin 1) and **PHASE DET** (Pin 0).
 - PHASE DET (Pin 1):** Outputs to **PHASE DET** (Pin 0) and **PHASE DET** (Pin 15).
 - PHASE DET (Pin 0):** Outputs to **PHASE DET** (Pin 15) and **PHASE DET** (Pin 14).
 - PHASE DET (Pin 15):** Outputs to **PHASE DET** (Pin 14) and **PHASE DET** (Pin 13).
 - PHASE DET (Pin 14):** Outputs to **PHASE DET** (Pin 13) and **PHASE DET** (Pin 12).
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 - PHASE DET (Pin 11):** Outputs to **PHASE DET** (Pin 10) and **PHASE DET** (Pin 9).
 - PHASE DET (Pin 10):** Outputs to **PHASE DET** (Pin 9) and **PHASE DET** (Pin 8).
 - PHASE DET (Pin 9):** Outputs to **PHASE DET** (Pin 8) and **PHASE DET** (Pin 7).
 - PHASE DET (Pin 8):** Outputs to **PHASE DET** (Pin 7) and **PHASE DET** (Pin 6).
 - PHASE DET (Pin 7):** Outputs to **PHASE DET** (Pin 6) and **PHASE DET** (Pin 5).
 - PHASE DET (Pin 6):** Outputs to **PHASE DET** (Pin 5) and **PHASE DET** (Pin 4).
 - PHASE DET (Pin 5):** Outputs to **PHASE DET** (Pin 4) and **PHASE DET** (Pin 3).
 - PHASE DET (Pin 4):** Outputs to **PHASE DET** (Pin 3) and **PHASE DET** (Pin 2).
 - PHASE DET (Pin 3):** Outputs to **PHASE DET** (Pin 2) and **PHASE DET** (Pin 1).
 - PHASE DET (Pin 2):** Outputs to **PHASE DET** (Pin 1) and **PHASE DET** (Pin 0).
 - PHASE DET (Pin 1):** Outputs to **PHASE DET** (Pin 0) and **PHASE DET** (Pin 15).
 - PHASE DET (Pin 0):** Outputs to **PHASE DET** (Pin 15) and **PHASE DET** (Pin 14).
 - PHASE DET (Pin 15):** Outputs to **PHASE DET** (Pin 14) and **PHASE DET** (Pin 13).
 - PHASE DET (Pin 14):** Outputs to **PHASE DET** (Pin 13) and **PHASE DET** (Pin 12).
 - PHASE DET (Pin 13):** Outputs to **PHASE DET** (Pin 12) and **PHASE DET** (Pin 11).
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 - PHASE DET (Pin 9):** Outputs to **PHASE DET** (Pin 8) and **PHASE DET** (Pin 7).
 - PHASE DET (Pin 8):** Outputs to **PHASE DET** (Pin 7) and **PHASE DET** (Pin

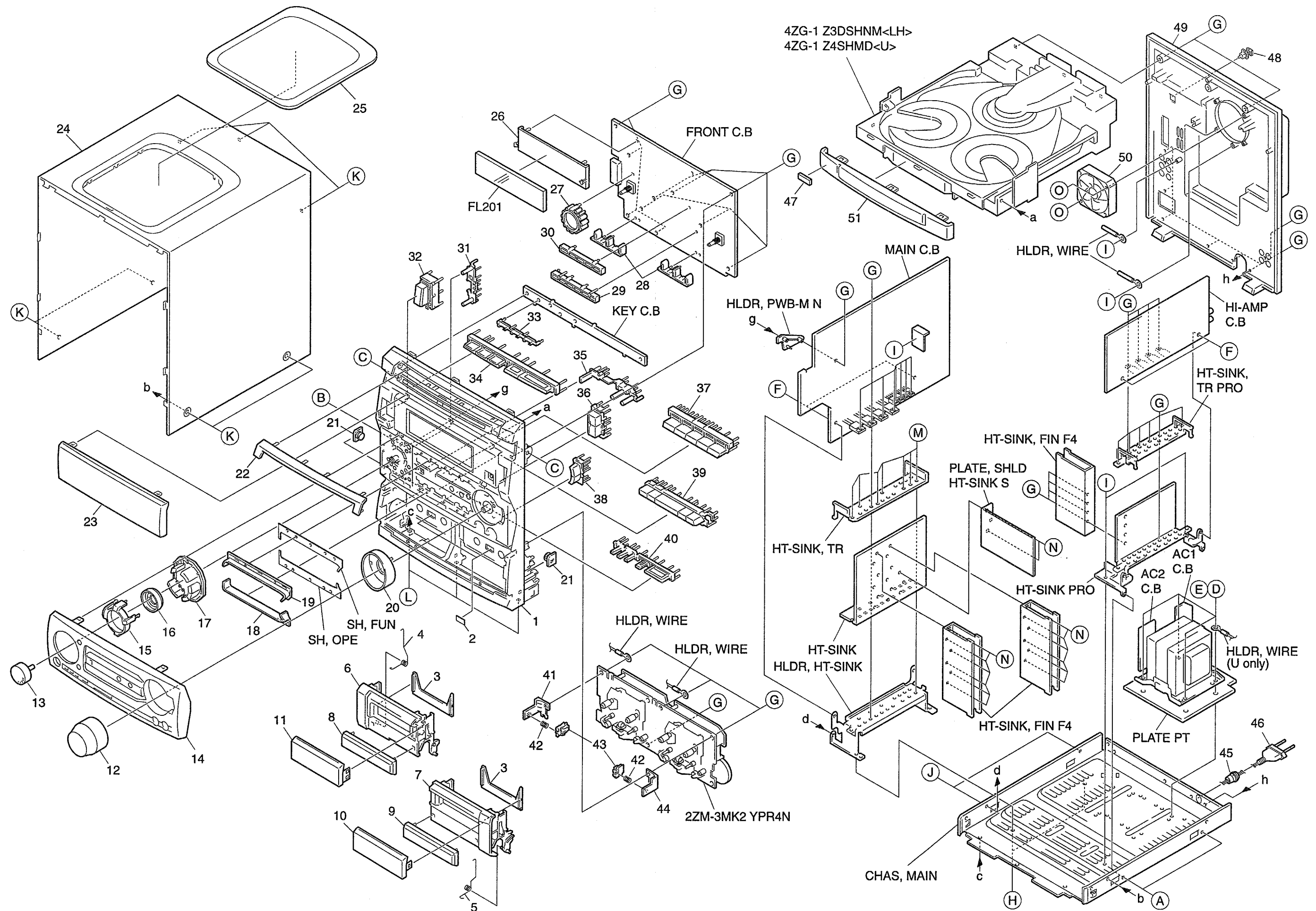
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IC, CXA1553P





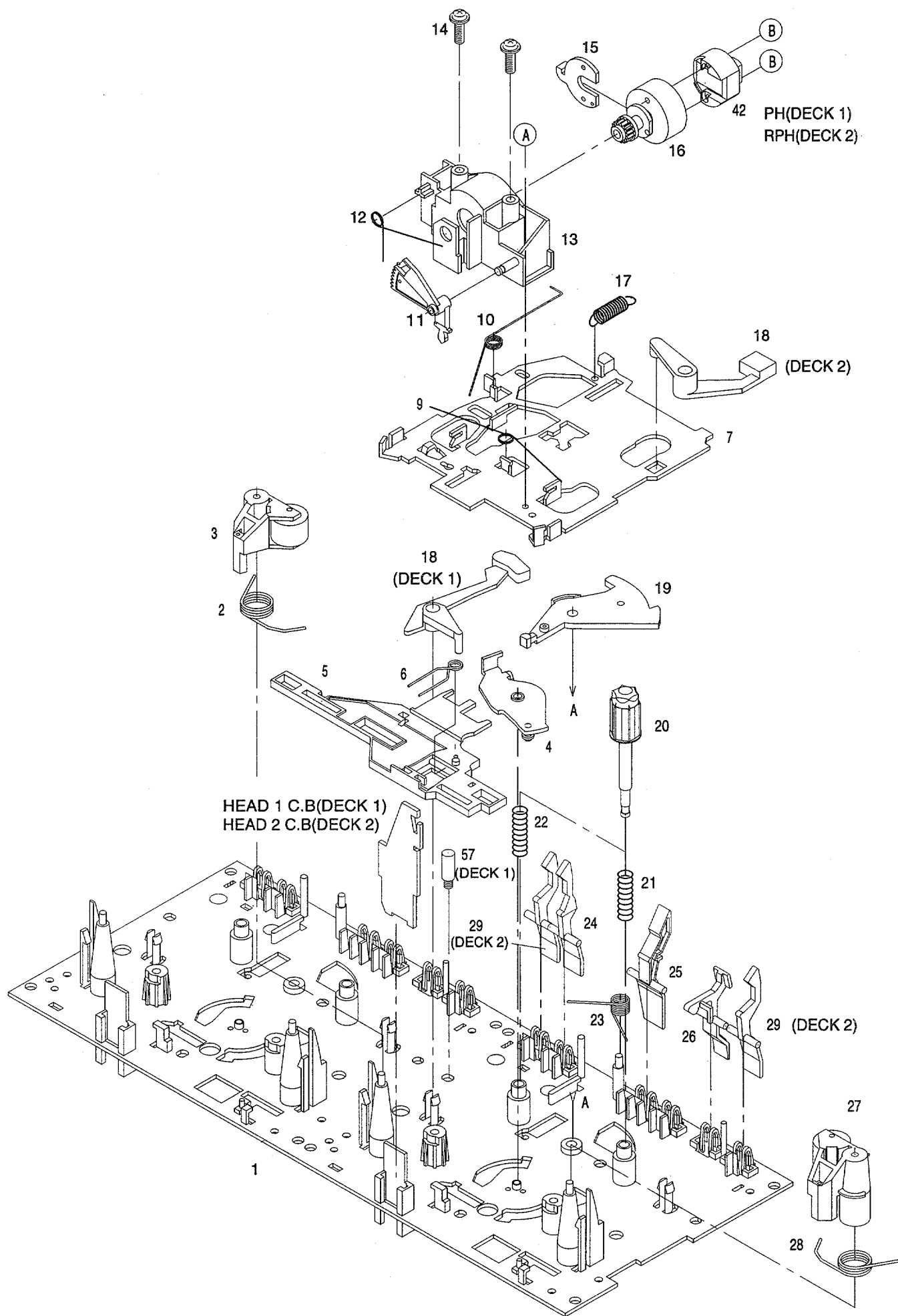


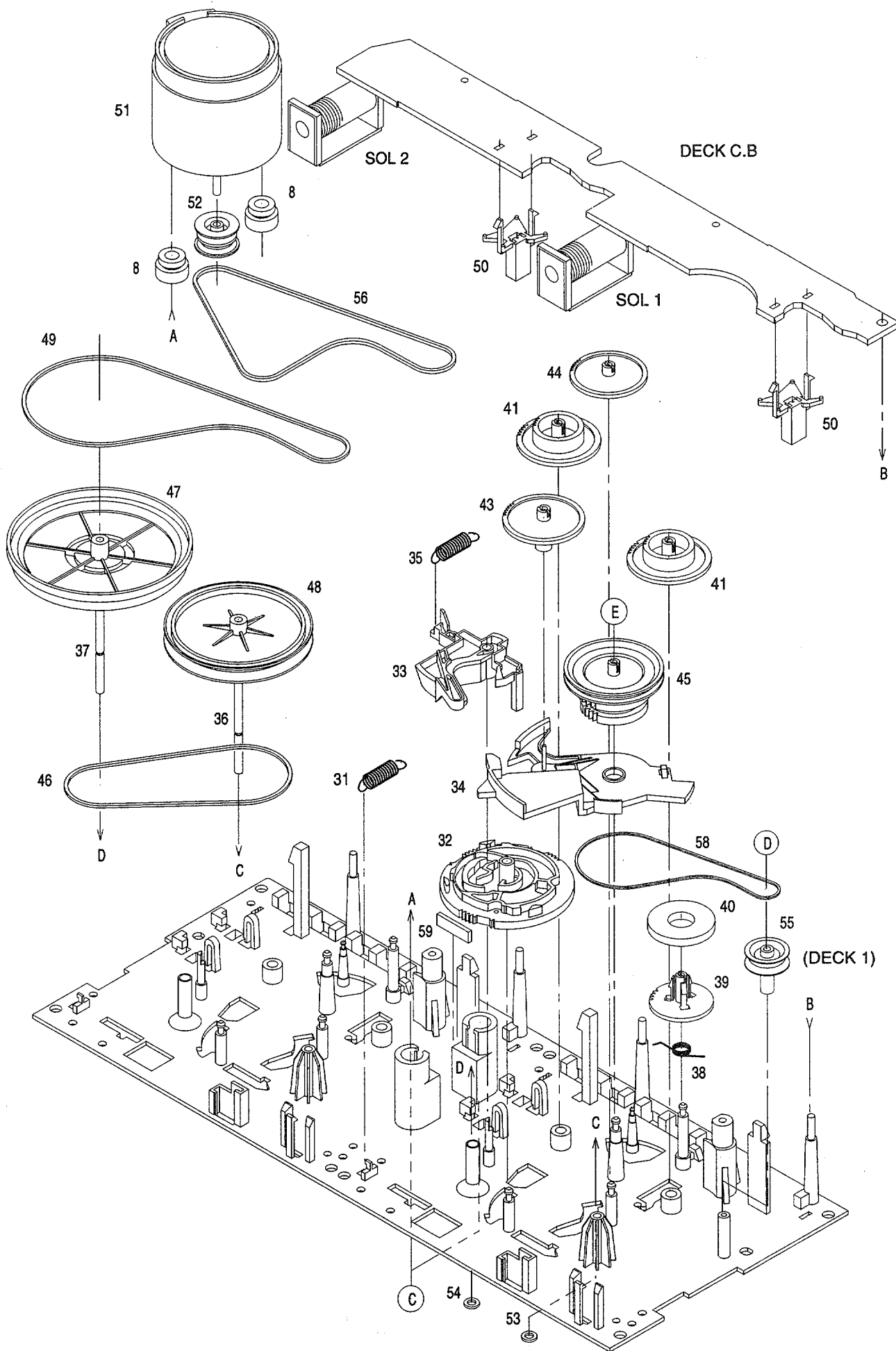
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF5-002-010		CABI,FR H<LH>	38	88-NF5-026-010		KEY,MIC
1	88-NF5-001-010		CABI,FR U<U>	39	88-NF5-024-010		KEY,OPE
2	81-532-080-010		LABEL, CASS. COMPT	40	88-NF5-033-010		KEY,DOLBY
3	86-NF6-061-010		REFLECTOR,CASS	41	87-NF4-216-010		HLDR,LOCK 1
4	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	42	86-NF9-224-010		SPR-C,LOCK
5	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	43	82-NF5-229-010		PLATE,LOCK
6	88-NF5-004-010		BOX,CASS 1U	44	87-NF4-217-010		HLDR,LOCK 2
7	88-NF5-005-010		BOX,CASS 2U	45	87-085-185-010		BUSHING, AC CORD (E)<LH>
8	88-NF5-038-010		PANEL,CASS 1U	45	87-085-189-010		BUSHING, CORD (U)<U>
9	88-NF5-039-010		PANEL,CASS 2U	46	87-050-053-010		AC CORD ASSY,U-2<U>
10	88-NF5-019-010		WINDOW,CASS 2	46	87-050-079-010		AC-CORD ASSY,E<LH>
11	88-NF5-018-010		WINDOW,CASS 1	47	82-NE6-067-010		BADGE,AIWA 30N
12	88-NF5-021-010		KNOB,RTRY VOL	48	84-ZG1-245-210		CAP,OPTICAL
13	88-NF5-022-010		KNOB,RTRY JOG	49	88-NF5-072-010		CABI,REAR LHSTN<LH>
14	88-NF5-011-010		PANEL,FR U	49	88-NF5-076-010		CABI,REAR UST<U>
15	88-NF5-043-010		PANEL,DSP	50	87-A90-796-010		FAN,F614R-12MC-15-300MM<LH>
16	88-NF5-029-010		REFLECTOR,JOG	51	88-NF5-009-010		PANEL,TRAY U
17	88-NF5-028-010		KEY,ENTER	A	87-721-096-410		QT2+3-10 GLD
18	88-NF5-030-010		REFLECTOR,OPE	B	87-723-096-410		QT2+3-10W/O SLOT BL
19	88-NF5-031-010		REFLECTOR,FUN	C	87-721-097-410		QT2+3-12 GLD
20	88-NF5-032-010		RING,VOL	D	87-078-191-010		S-SCREW,IT+4-10<LH>
21	87-NF8-220-010		DMPR,150	E	87-067-975-010		S-SCREW,IT+4-8<U>
22	88-NF5-017-010		PANEL,CD	F	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
23	88-NF5-015-010		WINDOW,DISP H<LH>	G	87-067-703-010		TAPPING SCREW, BVT2+3-10
23	88-NF5-014-010		WINDOW,DISP U<U>	H	87-067-584-010		TAPPING SCREW, BVT2+3-6
24	88-NF5-008-010		CABI,STEEL S	I	87-067-579-010		TAPPING SCREW, BVT2+3-8
25	86-NF6-101-010		WINDOW TOP UL<U>	J	87-591-094-410		TAPPING SCREW, QIT+3-6
25	86-NF6-007-010		WINDOW,TOP<LH>	K	87-067-641-010		UTT2+3-8(W/O SLOT)BL
26	88-NF5-204-010		GUIDE,FL	L	87-067-688-010		BVTT+3-6
27	88-NF5-205-010		GUIDE,ENTER	M	87-067-758-010		BVT2+3-12 W/O SLOT
28	85-NF5-211-110		GUIDE,LED R	N	87-B10-090-010		BVIT3B+3-12 GOLD
29	88-NF5-202-010		GUIDE,OPE	O	87-067-822-010		BVT2+3-20 W/O SLOT<LH>
30	88-NF5-201-010		GUIDE,FUN				
31	88-NF5-048-010		KEY,TIMER				
32	88-NF5-035-010		KEY,POWER				
33	88-NF5-206-010		GUIDE,CD				
34	88-NF5-041-010		KEY,ASSY CD				
35	88-NF5-027-010		KEY,DEMO				
36	88-NF5-025-010		KEY,BBE				
37	88-NF5-023-010		KEY,FUN				

TAPE MECHANISM EXPLODED VIEW 1 / 1



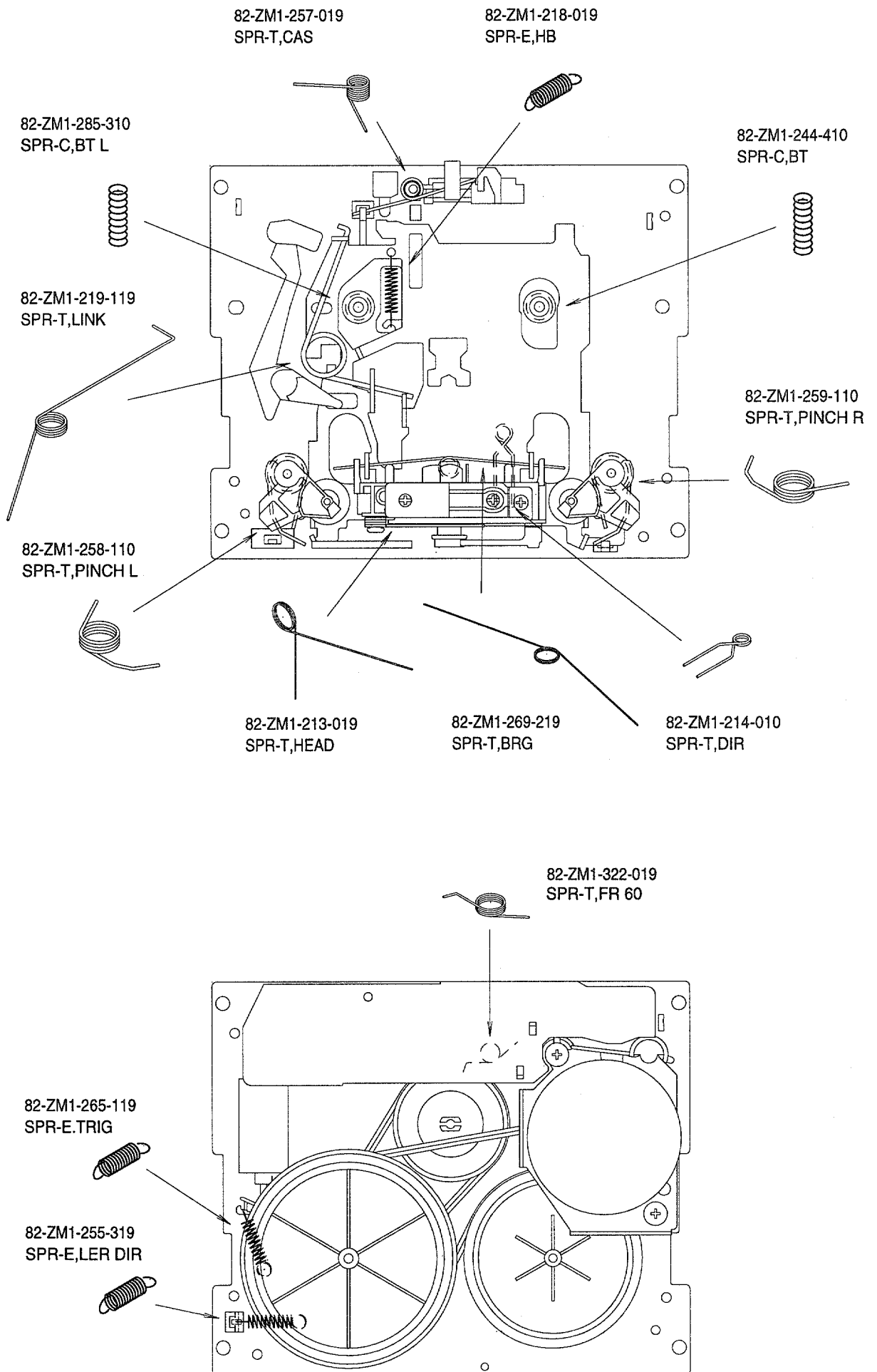


TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY, M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T, PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY, PINCH L2	38	82-ZM1-322-019		SPR-T, FR60
4	82-ZM1-333-010		PLATE, LINK 2	39	82-ZM1-220-219		GEAR, IDLER
5	82-ZM1-266-11K		LVR, DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T, DIR	41	82-ZM1-216-31K		GEAR, REEL
7	82-ZM1-206-81K		CHAS, HEAD	42	87-A90-319-010		HEAD, PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G, DIA3.7-8-3.2	42	87-A90-320-010		HEAD, RPH HADKH5 FPC
9	82-ZM1-269-219		SPR-T, BRG	43	82-ZM1-225-21K		GEAR, FR
10	82-ZM1-219-119		SPR-T, LINK	44	82-ZM1-226-019		GEAR, REW
11	82-ZM1-210-119		GEAR, H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T, HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE, TAPE	47	82-ZM1-349-110		FLY-WHL, R W(DECK 2)
14	86-ZM4-206-010		S-SCREW, AZIMUTH	47	82-ZM3-338-110		FLY-WHL, R3 W(DECK 1)
15	82-ZM1-314-119		PLATE, HEAD	48	82-ZM1-348-010		FLY-WHL, L W(DECK 2)
16	82-ZM1-208-119		HLDR, HEAD	48	82-ZM1-348-010		FLY-WHL, L W(DECK 1)
17	82-ZM1-218-019		SPR-E, HB	49	82-ZM3-329-210		BELT, SBU R2
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR, IC
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	51	87-045-347-019		MOT, SHU2L 70(M1)
19	82-ZM1-222-21K		LVR, PLAY	52	82-ZM3-221-010		PULLEY, MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH, 1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C, BT	54	80-ZM6-243-019		SH, 1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C, BT L	55	82-ZM3-335-210		PULLEY, COUPLER M3(DECK 1)
23	82-ZM1-257-019		SPR-T, CAS	56	82-ZM3-337-010		BELT, SBU MOT 2
24	82-ZM1-241-319		LVR, MC	57	82-ZM3-339-010		SHAFT, COUPLER N3(DECK 1)
25	82-ZM1-242-019		LVR, CAS	58	86-ZM1-206-010		BELT, MAIN L
26	82-ZM1-243-019		LVR, STOP	59	82-ZM3-340-010		SH, BELT D2
27	82-ZM1-344-110		LVR ASSY, PINCH R2	A	85-ZM3-202-010		S-SCREW, TG
28	82-ZM1-259-110		SPR-T, PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR, REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E, LVR DIR	D	87-B10-043-010		W-P, 0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR, CAM M2	E	82-ZM3-334-010		PW, 2.16-6-0.4
33	82-ZM1-227-21K		LVR, TRIG				
34	82-ZM3-306-11K		LVR, FR M2				
35	82-ZM1-265-119		SPR-E, TRIG				

SPRING APPLICATION POSITION

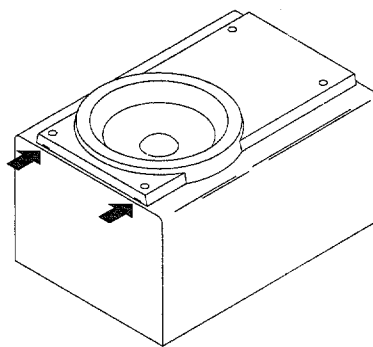


SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

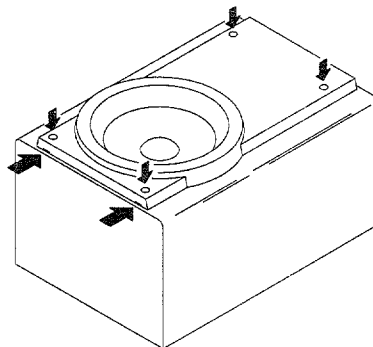
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスがありますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

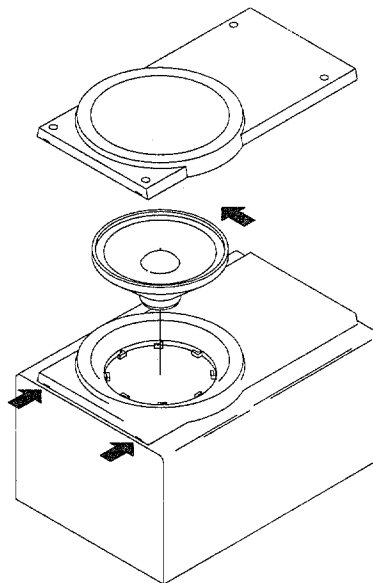
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

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.



SX-WNA909 (YUSTNL), SX-WNS909 (YLSTNL) SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-001-010		PANEL,FR R
2	88-NS5-002-010		PANEL,FR L
3	88-NS5-003-010		PANEL,BA
4	88-NS5-004-010		PANEL,DUCT
5	88-NS5-005-010		PANEL,COVER
6	88-NS5-006-010		GRILLE,FRAME ASSY A<YLSTNL>
6	88-NS5-010-010		GRILLE,FRAME ASSY B<YUSTNL>
7	88-NS5-602-010		SPKR,W 200
8	88-NS5-604-010		SPKR,M 120
9	88-NS5-605-010		SPKR,T 60
10	88-NS5-610-010		CORD,SPKR
11	88-NS5-611-010		CORD,SPKR B/L
12	88-NS5-609-010		SPKR, CERAMIC

SX-R285 (YLSTNCC) SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-004-010		GRILLE FRAME ASSY
2	81-VSA-009-010		CORD BUSH
3	87-YS6-002-010		SPKR, CORD Y
4	87-YS9-601-010		SPKR, SPKR,100

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF5-902-010		IB,LH(ESF)M<LH>
1	88-NF5-903-010		IB,U(ESF)M<909USTNM>
1	88-NF5-913-010		IB,U(ESF)I<909UST>
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		FEEDER-ANT,FM
△ 4	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<LH>
5	87-NF4-655-010		RC UNIT,RC-7AS08

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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