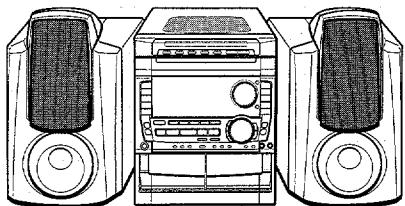


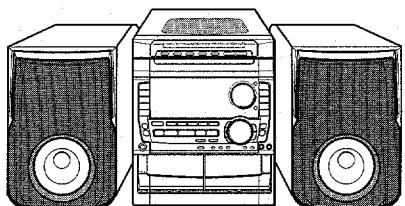
aiwa



NSX-F959



NSX-F959 <EZ>



NSX-F959 <K,V>

CD STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 6ZG-1 S2DSHNM
- TYPE: EZ,K,V

REVISION PUBLISHING

SYSTEM	CD - CASSEIVER	SPEAKER
NSX-F959 (TYPE : EZ,V)	CX-NF959	SX-WNF959
NSX-F959 (TYPE : K)		SX-WNF958

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", S/M Code No. 09-986-285-10A.
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, S/M Code No. 09-984-249-90T.

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ACCESSORIES / PACKAGE LIST

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

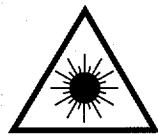
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF3-904-010	IB, K (E) -M<K>	
1	88-NF3-905-010	IB, EZ (ESFGI) -M<EZ>	
1	88-NF3-906-010	IB, V (ER) -M<V>	
2	87-006-225-010	AM LOOP ANT NC2	
3	87-A90-064-010	FEEDER-ANT, FM(SHS) <V>	
4	87-A90-118-010	ANT, WIRE FM (Z)<EZ,K>	
5	87-NF4-655-010	RC UNIT, RC-7AS08	

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 ylitteälle näkymättömälle lasersäteilylle.

VARNING!

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 here 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.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

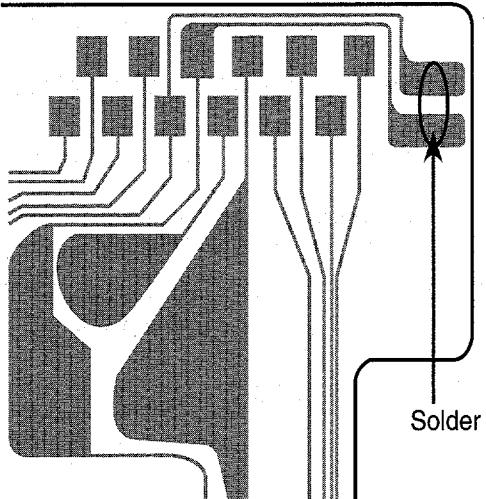
Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. To ground body and workbench, and use 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, 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 (+VH) 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.

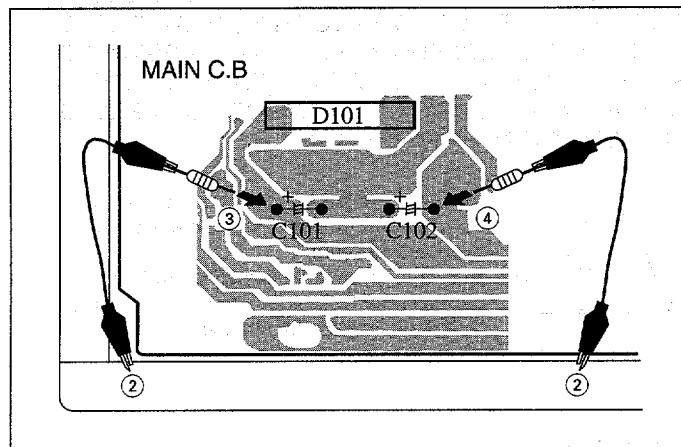


Fig-1

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.

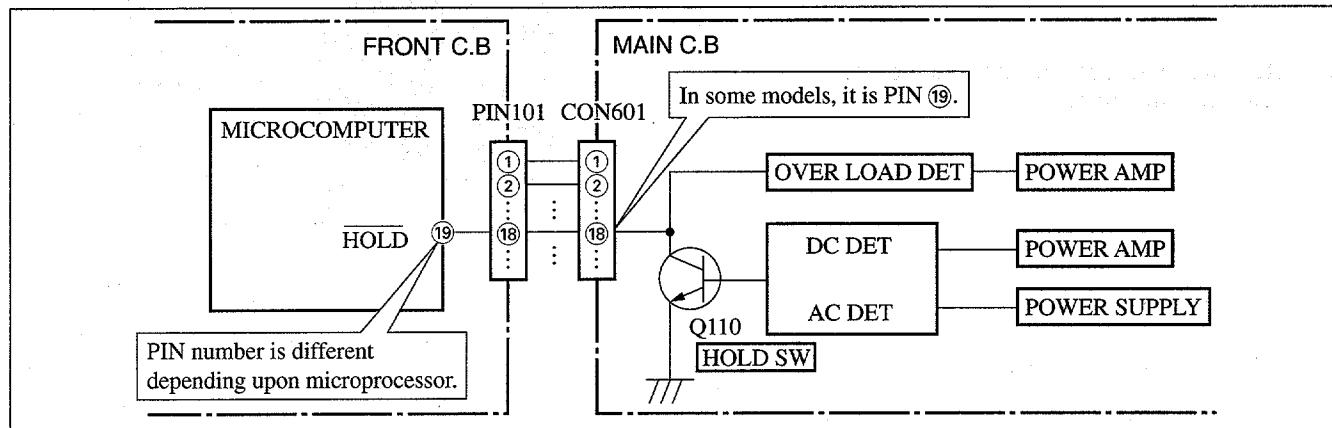


Fig-2-1

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 leads 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.

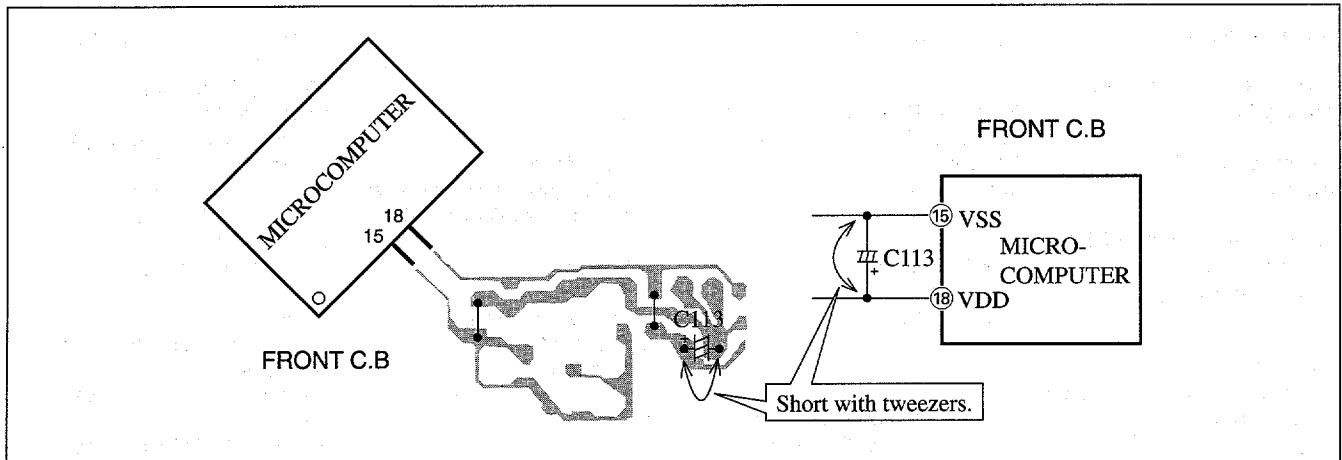


Fig-2-2

- 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 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.

SPECIFICATIONS

<FM Tuner section> <EZ,K>

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

<FM Tuner section> <V>

Tuning range

FM1 (OIRT)
 65 MHz to 74 MHz (10 kHz step)
 FM2 (CCIR)
 87.5 MHz to 108 MHz (50 kHz step)

Usable sensitivity(IHF)

Antenna terminals FM1 : 15.3 dBf
 FM2 : 12.8 dBf
 75 ohms (unbalanced)

<AM (MW) Tuner section>

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)

Usable sensitivity

Antenna 350 uV/m
 Loop antenna

<LW Tuner section> <EZ,K>

Tuning range 144 kHz to 290 kHz
Usable sensitivity 1400 uV/m
Antenna Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output Rated : 30 W + 30 W (6 ohms,
 T.H.D. 1%, 1 kHz/DIN 45500)
 Reference : 37 W + 37 W (6 ohms,
 T.H.D. 10%, 1 kHz/DIN 45324)
Total harmonic distortion 0.1% (17 W, 1 kHz, 6 ohms, DIN
 AUDIO)
 DIN MUSIC POWER : 65 W + 65 W
 <EZ,K>

Low frequency amplifier

Power output Rated : 130 W + 130 W (6 ohms,
 T.H.D. 1%, 75 Hz/DIN 45500)
 Reference : 162 W + 162 W (6 ohms,
 T.H.D. 10%, 75 Hz/DIN 45324)
Total harmonic distortion 0.1% (110 W, 75 Hz, 6 ohms, DIN
 AUDIO)
 DIN MUSIC POWER : 290 W + 290 W
 <EZ,K>

Inputs

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

MIC1, MIC2 : 1.4mV (10 kohms)
 LINE OUT: 280mV

Outputs

SPEAKERS: accept speakers of
 6 ohms or more

SURROUND SPEAKERS:
 K,V: accept speakers of 8 ohms
 to 16 ohms

EZ : accept speakers of 8 ohms
 or more

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

<Cassette deck section>

Track format

4 tracks, 2 channels stereo

Frequency response

CrO₂tape : 50 Hz – 16000 Hz

Normal tape : 50 Hz – 15000 Hz

60 dB (Dolby B NR ON, CrO₂tape
 peak level)

Signal-to-noise ratio

AC bias

Recording system

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

Heads

<Compact disc player section>

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

<Speaker system SX-WNF958> <K,V>

Cabinet type 4 way (magnetic shielded type)
Speakers Subwoofer :

200 mm (7 7/8 in.) cone type

Woofers :

120 mm (7 7/8 in.) cone type

Tweeter :

60 mm (7 7/8 in.) type

Super tweeter:

20 mm (1 3/6 in.) ceramic type

6 ohms

87 dB/W/m

Dimensions (W x H x D)

260 x 353 x 387 mm

(10 1/4 X 14 X 15 1/4 in.)

Weight 6.5 kg (14 lbs 5 oz.)

<Speaker system SX-WNF959> <EZ>

Cabinet type 4 way (magnetic shielded type)
Speakers Subwoofer :

200 mm (7 7/8 in.) cone type

Woofers :

120 mm (7 7/8 in.) cone type

Tweeter :

60 mm (7 7/8 in.) cone type

Super tweeter:

20 mm (1 3/6 in.) ceramic type

6 ohms

87 dB/W/m

Dimensions (W x H x D)

270 x 440 x 316 mm

(10 3/4 X 17 3/8 X 15 1/4 in.)

Weight 6.8 kg (15 lbs)

<General>

Power requirements 230 V AC, 50 Hz

Power consumption 250 W

Dimensions of main unit 300 x 357.5 x 376 mm

(11 7/8 X 14 1/8 X 14 7/8 in.)

Weight 12.8 kg (28 lbs 4 oz.)

• Design and specifications are subject to change without notice.

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

Under license from BBE Sound, Inc.

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

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							
87-017-888-080	IC, NJM4558MD			87-070-136-080	ZENER, MTZJ5.1B		
87-017-915-080	IC, BU4094BCF			87-A40-234-080	ZENER, MTZJ5.6A		
87-020-454-010	IC, DN6851			87-A40-002-080	ZENER, MTZJ5.1C		
87-070-289-040	IC, BU 2092F			87-A40-392-010	DIODE, 1N5818		
87-A20-083-010	IC, BA3835S						
87-A20-355-010	IC, CXA1553P			C101	87-A10-231-090	CAP, E 3300-80	
87-A20-437-010	C-IC, M62431FP			C102	87-A10-231-090	CAP, E 3300-80	
87-A20-440-040	C-IC, BU1920FS			C103	87-016-658-090	CAP, E 4700-35 SMG	
87-A20-560-040	C-IC, M65849BFP			C104	87-016-658-090	CAP, E 4700-35 SMG	
87-A20-783-040	C-IC, BA7762AFS			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-A20-913-010	IC, LA1837NL			C107	87-012-368-080	C-CAP, S 0.1-50 F	
87-A20-954-040	C-IC, M62445FP-601			C108	87-012-368-080	C-CAP, S 0.1-50 F	
88-NF3-642-010	C-IC, LC866560W-5H39			C109	87-010-196-080	CHIP CAPACITOR, 0.1-25	
88-NF5-615-040	C-IC, MSM6654A-521GS-KR1			C110	87-010-196-080	CHIP CAPACITOR, 0.1-25	
87-NF8-614-010	IC, SPS-442-1-W			C111	87-010-196-080	CHIP CAPACITOR, 0.1-25	
86-NFZ-655-010	IC, LC72131D(Z)			C112	87-010-196-080	CHIP CAPACITOR, 0.1-25	
				C113	87-010-247-080	CAP, ELECT 100-50V	
				C114	87-010-385-080	CAP, ELECT 220-25V	
				C115	87-010-385-080	CAP, ELECT 220-25V	
TRANSISTOR							
87-026-226-080	CHIP-TR, DTA143EK			C116	87-010-247-080	CAP, ELECT 100-50V	
87-026-232-080	TR, DTA144WK			C117	87-010-430-080	CAP, ELECT 100-63	
87-026-263-080	C-TR, RN1410			C118	87-010-263-080	CAP, ELECT 100-10V	
87-026-463-080	TR, 2SA933S			C119	87-010-260-080	CAP, ELECT 47-25V	
87-026-609-080	TR, KTA1266GR			C120	87-010-403-080	CAP, ELECT 3.3-50V	
87-026-610-080	TR, KTC3198GR			C121	87-012-140-080	CAP 470P	
89-109-521-080	TR, 2SA952 (0.6W)			C124	87-010-112-080	CAP, ELECT 100-16V	
89-213-702-010	TR, 2SB1370 (1.8W)			C125	87-010-235-080	CAP, E 470-16 SME	
89-327-143-080	TR, 2SC2714 (0.1W)			C205	87-010-805-080	C,CAP S 1-16ZF	
89-505-434-540	C-FET, 2SK543-TB(4/5)			C206	87-010-805-080	C,CAP S 1-16ZF	
87-A30-071-080	C-TR, RT1N 144C			C209	87-010-401-080	CAP, ELECT 1-50V	
87-A30-072-080	C-TR, RT1P 144C			C210	87-010-401-080	CAP, ELECT 1-50V	
87-A30-073-080	C-TR, RT1N 141C			C211	87-010-178-080	CHIP CAP 1000P	
87-A30-074-080	C-TR, RT1P 141C			C212	87-010-178-080	CHIP CAP 1000P	
87-A30-075-080	C-TR, 2SA1235F			C215	87-010-404-080	CAP, ELECT 4.7-50V	
87-A30-076-080	C-TR, 2SC3052F			C216	87-010-404-080	CAP, ELECT 4.7-50V	
87-A30-084-080	TR, CSB1058B			C217	87-010-913-080	CAP, E 47-25 ASF BP	
87-A30-086-070	C-TR, CSD1306E			C218	87-010-913-080	CAP, E 47-25 ASF BP	
87-A30-087-080	C-FET, 2SK2158			C219	87-010-805-080	C,CAP S 1-16ZF	
87-A30-105-080	C-TR, RT1P 441C			C220	87-010-805-080	C,CAP S 1-16ZF	
87-A30-106-070	C-TR, CMBT5551			C221	87-010-213-080	C-CAP, S 0.015-50 B	
87-A30-107-070	C-TR, CMBT5401			C222	87-010-213-080	C-CAP, S 0.015-50 B	
87-A30-137-010	TR, 2SD2494			C223	87-010-197-080	CAP, CHIP 0.01 DM	
87-A30-138-010	TR, 2SB1625			C224	87-010-197-080	CAP, CHIP 0.01 DM	
87-A30-142-040	C-TR, DTA123EKA			C225	87-010-176-080	C-CAP, S 680P-50 SL	
87-A30-162-010	FET, 2SK2937			C226	87-010-176-080	C-CAP, S 680P-50 SL	
87-A30-190-080	TR, CC5551			C228	87-010-196-080	CHIP CAPACITOR, 0.1-25	
87-A30-196-080	TR, 2SC4115SRS			C229	87-A10-516-080	C-CAP, S 100P-200 J CH	
87-A30-204-010	TR, 2SD2439			C230	87-A10-516-080	C-CAP, S 100P-200 J CH	
87-A30-205-010	TR, 2SB1588			C231	87-010-186-080	CAP, CHIP 1000P	
87-A30-221-040	C-TR, DTA114WK			C232	87-010-186-080	CAP, CHIP 1000P	
				C233	87-010-544-080	CAP, ELECT 0.1-50V	
				C234	87-010-544-080	CAP, ELECT 0.1-50V	
				C235	87-010-196-080	CHIP CAPACITOR, 0.1-25	
				C237	87-012-368-080	C-CAP, S 0.1-50 F	
DIODE							
87-A40-470-080	DIODE, 1SS254			C238	87-012-368-080	C-CAP, S 0.1-50 F	
87-017-447-010	DIODE, GBU4DL			C239	87-012-368-080	C-CAP, S 0.1-50 F	
87-017-654-060	DIODE, GBU6J			C240	87-012-368-080	C-CAP, S 0.1-50 F	
87-A40-269-080	C-DIODE, MC2836			C243	87-010-322-080	C-CAP, S 100P-50 CH	
87-A40-270-080	C-DIODE, MC2838			C244	87-010-322-080	C-CAP, S 100P-50 CH	
87-070-274-080	DIODE, 1N4003 SEM			C247	87-010-186-080	C-CAP, S 4700P	
87-A40-440-080	ZENER, MTZJ7.5A			C248	87-010-186-080	C-CAP, S 4700P	
87-A40-503-080	ZENER, MTZJ39B			C280	87-010-188-080	CAP, CHIP 6800P	
87-A40-345-080	ZENER, MTZJ10C			C299	87-010-196-080	CHIP CAPACITOR, 0.1-25	
87-A40-438-080	ZENER, MTZJ4.7A			C301	87-010-318-080	C-CAP, S 47P-50 CH	
87-A40-004-080	ZENER, MTZJ16A			C302	87-010-318-080	C-CAP, S 47P-50 CH	
87-A40-274-010	DIODE, FMB-G16L			C303	87-012-157-080	C-CAP, S 330P-50 CH	
87-A40-488-080	DIODE, 1SS244			C304	87-012-157-080	C-CAP, S 330P-50 CH	
				C305	87-012-145-080	CAP, CHIP S 270P CH	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C306	87-012-145-080		CAP, CHIP S 270P CH	C464	87-010-402-080		CAP, ELECT 2.2-50V
C307	87-010-196-080		CHIP CAPACITOR, 0.1-25	C516	87-010-196-080		CHIP CAPACITOR, 0.1-25
C311	87-010-198-080		CAP, CHIP 0.022	C551	87-010-401-080		CAP, ELECT 1-50V
C312	87-010-198-080		CAP, CHIP 0.022	C552	87-010-263-080		CAP, ELECT 100-10V
C313	87-010-179-080		CAP, CHIP S B1200P	C553	87-010-380-080		CAP, ELECT 47-16V
C314	87-010-179-080		CAP, CHIP S B1200P	C601	87-010-180-080		C-CER 1500P
C315	87-010-178-080		CHIP CAP 1000P	C602	87-010-180-080		C-CER 1500P
C316	87-010-178-080		CHIP CAP 1000P	C605	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
C317	87-012-142-080		CAP, S 0.33-16	C606	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
C318	87-012-142-080		CAP, S 0.33-16	C607	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
C319	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	C608	87-010-318-080		C-CAP, S 47P-50 CH<EZ, K>
C320	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	C613	87-016-081-080		C-CAP, S 0.1-16 RK
C321	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	C614	87-016-081-080		C-CAP, S 0.1-16 RK
C322	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	C619	87-010-185-080		C-CAP, S 3900P-50 B
C324	87-010-260-080		CAP, ELECT 47-25V	C620	87-010-185-080		C-CAP, S 3900P-50 B
C325	87-010-370-080		CAP, E 330-6.3 SME	C621	87-010-401-080		CAP, ELECT 1-50V
C327	87-010-404-080		CAP, ELECT 4.7-50V	C622	87-010-401-080		CAP, ELECT 1-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V	C625	87-010-405-080		CAP, ELECT 10-50V
C332	87-010-196-080		CHIP CAPACITOR, 0.1-25	C626	87-010-405-080		CAP, ELECT 10-50V
C335	87-010-401-080		CAP, ELECT 1-50V	C629	87-010-405-080		CAP, ELECT 10-50V
C336	87-010-401-080		CAP, ELECT 1-50V	C630	87-010-213-080		C-CAP, S 0.015-50 B
C337	87-010-196-080		CHIP CAPACITOR, 0.1-25	C631	87-010-992-080		C-CAP 0.047-25 B
C339	87-010-196-080		CHIP CAPACITOR, 0.1-25	C632	87-010-263-080		CAP, ELECT 100-10V
C340	87-010-196-080		CHIP CAPACITOR, 0.1-25	C633	87-010-263-080		CAP, ELECT 100-10V
C351	87-012-140-080		CAP 470P	C634	87-010-196-080		CHIP CAPACITOR, 0.1-25
C352	87-012-140-080		CAP 470P	C635	87-010-196-080		CHIP CAPACITOR, 0.1-25
C354	87-010-175-080		CAP 560P	C636	87-010-194-080		CAP, CHIP 0.047
C355	87-010-178-080		CHIP CAP 1000P	C637	87-010-183-080		C-CAP, S 2700P-50 B
C356	87-010-260-080		CAP, ELECT 47-25V	C641	87-012-368-080		C-CAP, S 0.1-50 F
C357	87-010-197-080		CAP, CHIP 0.01 DM	C653	87-010-322-080		C-CAP, S 100P-50 CH
C358	87-010-183-080		C-CAP, S 2700P-50 B	C654	87-010-322-080		C-CAP, S 100P-50 CH
C359	87-010-183-080		C-CAP, S 2700P-50 B	C661	87-010-322-080		C-CAP, S 100P-50 CH<EZ, K>
C360	87-010-183-080		C-CAP, S 2700P-50 B	C662	87-010-322-080		C-CAP, S 100P-50 CH<EZ, K>
C363	87-A10-772-080		CAP, M 5600P-50 J	C663	87-010-322-080		C-CAP, S 100P-50 CH<EZ, K>
C370	87-010-196-080		CHIP CAPACITOR, 0.1-25	C664	87-010-322-080		C-CAP, S 100P-50 CH<EZ, K>
C371	87-010-177-080		C-CAP, S 820P-50 SL	C667	87-012-368-080		C-CAP, S 0.1-50 F
C372	87-010-177-080		C-CAP, S 820P-50 SL	C701	87-010-381-080		CAP, ELECT 330-16V
C373	87-010-179-080		CAP, CHIP S B1200P	C702	87-010-404-080		CAP, ELECT 4.7-50V
C374	87-010-179-080		CAP, CHIP S B1200P	C703	87-010-197-080		CAP, CHIP 0.01 DM
C375	87-010-545-080		CAP, ELECT 0.22-50V	C704	87-010-197-080		CAP, CHIP 0.01 DM
C376	87-010-545-080		CAP, ELECT 0.22-50V	C709	87-010-322-080		C-CAP, S 100P-50 CH
C378	87-010-196-080		CHIP CAPACITOR, 0.1-25	C711	87-010-263-080		CAP, ELECT 100-10V
C381	87-010-197-080		CAP, CHIP 0.01 DM	C712	87-010-196-080		CHIP CAPACITOR, 0.1-25
C382	87-010-318-080		C-CAP, S 47P-50 CH	C713	87-010-197-080		CAP, CHIP 0.01 DM
C383	87-010-197-080		CAP, CHIP 0.01 DM	C714	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V	C715	87-010-322-080		C-CAP, S 100P-50 CH<EZ, K>
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C721	87-010-312-080		C-CAP, S 15P-50 CH
C386	87-010-196-080		CHIP CAPACITOR, 0.1-25	C722	87-010-312-080		C-CAP, S 15P-50 CH
C401	87-010-401-080		CAP, ELECT 1-50V	C723	87-010-178-080		CHIP CAP 1000P
C402	87-010-401-080		CAP, ELECT 1-50V	C725	87-010-178-080		CHIP CAP 1000P
C403	87-010-184-080		CHIP CAPACITOR 3300P(K)	C727	87-010-196-080		CHIP CAPACITOR, 0.1-25
C404	87-010-184-080		CHIP CAPACITOR 3300P(K)	C728	87-010-248-080		CAP, ELECT 220-10V
C405	87-010-193-080		CHIP CAPACITOR, 0.033	C755	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-193-080		CHIP CAPACITOR, 0.033	C756	87-010-197-080		CAP, CHIP 0.01 DM
C407	87-010-405-080		CAP, ELECT 10-50V	C757	87-010-318-080		C-CAP, S 47P-50 CH
C408	87-010-405-080		CAP, ELECT 10-50V	C758	87-010-149-080		C-CAP, S 5P-50 CH
C409	87-010-380-080		CAP, ELECT 47-16V	C761	87-010-196-080		CHIP CAPACITOR, 0.1-25
C410	87-010-380-080		CAP, ELECT 47-16V	C762	87-010-197-080		CAP, CHIP 0.01 DM
C411	87-010-405-080		CAP, ELECT 10-50V	C763	87-010-194-080		CAP, CHIP 0.047
C412	87-010-112-080		CAP, ELECT 100-16V	C764	87-010-319-080		C-CAP, S 56P-50 CH
C415	87-010-184-080		CHIP CAPACITOR 3300P(K)	C765	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-184-080		CHIP CAPACITOR 3300P(K)	C766	87-010-197-080		CAP, CHIP 0.01 DM
C453	87-010-544-080		CAP, ELECT 0.1-50V	C767	87-010-405-080		CAP, ELECT 10-50V
C454	87-010-544-080		CAP, ELECT 0.1-50V	C768	87-010-197-080		CAP, CHIP 0.01 DM
C457	87-010-402-080		CAP, ELECT 2.2-50V	C769	87-010-408-080		CAP, ELECT 47-50V
C458	87-010-402-080		CAP, ELECT 2.2-50V	C770	87-015-821-080		C-CAP 0.047
C459	87-010-401-080		CAP, ELECT 1-50V	C771	87-010-407-080		CAP, ELECT 33-50V
C460	87-010-401-080		CAP, ELECT 1-50V	C772	87-010-194-080		CAP, CHIP 0.047
C461	87-010-545-080		CAP, ELECT 0.22-50V	C773	87-010-196-080		CHIP CAPACITOR, 0.1-25
C463	87-010-402-080		CAP, ELECT 2.2-50V	C774	87-010-263-080		CAP, ELECT 100-10V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C775	87-010-404-080		CAP, ELECT 4.7-50V	J601	87-A60-402-010		JACK, PIN 6P R/W HSP-246V30
C776	87-010-197-080		CAP, CHIP 0.01 DM	J801	87-A60-202-010		TERMINAL, ANT 4P MSP-154V-02<V>
C777	87-010-400-080		CAP, ELECT 0.47-50V	J802	87-A60-403-010		TERMINAL, ANT PAL 2P HSP-312V-05<EZ, K>
C778	87-010-401-080		CAP, ELECT 1-50V	L201	87-003-383-010		COIL, 1UH-S
C779	87-010-401-080		CAP, ELECT 1-50V	L202	87-003-383-010		COIL, 1UH-S
C780	87-010-196-080		CHIP CAPACITOR, 0.1-25	L301	87-A50-049-010		COIL, TRAP 85K(COI)
C781	87-010-405-080		CAP, ELECT 10-50V	L302	87-A50-049-010		COIL, TRAP 85K(COI)
C782	87-010-405-080		CAP, ELECT 10-50V	L351	87-007-342-010		COIL, OSC 85K BIAS
C783	87-015-819-080		CAPACITOR, 0.01	L771	87-A50-266-010		COIL, FM DET-2N(TOK)
C784	87-010-197-080		CAP, CHIP 0.01 DM	L772	87-A90-733-010		FLTR, PCFAZH-450 (TOK)
C785	87-010-403-080		CAP, ELECT 3.3-50V	L781	87-005-847-080		COIL, 2.2UH(CECS)<V>
C786	87-010-403-080		CAP, ELECT 3.3-50V	L781	87-005-849-080		COIL, 10UH(CECS)<EZ, K>
C787	87-010-186-080		C-CAP, S 4700P-50 B<EZ, K>	L791	87-A50-027-010		COIL, 1POLE MPX(TOK)
C788	87-010-186-080		C-CAP, S 4700P-50 B<EZ, K>	L792	87-A50-027-010		COIL, 1POLE MPX(TOK)
C789	87-010-179-080		CAP, CHIP S B1200P	L832	86-NFZ-694-080		COIL, 2.2UH K CECS
C790	87-010-179-080		CAP, CHIP S B1200P	L851	87-005-847-080		COIL, 2.2UH CECS<EZ>
C791	87-010-405-080		CAP, ELECT 10-50V	L941	87-A50-020-010		COIL, ANT LW (COI) 252KHZ<EZ, K>
C793	87-010-179-080		CAP, CHIP S B1200P<EZ>	L942	87-A50-019-010		COIL, OSC LW (COI) 856KHZ<EZ, K>
C793	87-010-181-080		C-CAP, S 1800P-50 B<K>	L981	87-NF4-651-010		COIL, AM PACK 2N(TOM)<EZ, K>
C793	87-010-177-080		C-CAP, S 820P-50 SL<V>	L981	87-NF4-650-010		COIL, AM PACK 4N(TOK)<V>
C794	87-010-406-080		CAP, ELECT 22-50	R123	87-022-200-080		RESISTOR, METAL 0.56 1W
C795	87-010-596-080		CAP, S 0.047-16	R237	87-A00-262-080		RES, M/F 0.15-2W J
C796	87-010-403-080		CAP, ELECT 3.3-50V	R238	87-A00-262-080		RES, M/F 0.15-2W J
C797	87-010-180-080		C-CAP, S 1500P-50 B	R239	87-A00-262-080		RES, M/F 0.15-2W J
C798	87-010-180-080		C-CAP, S 1500P-50 B	R240	87-A00-262-080		RES, M/F 0.15-2W J
C799	87-010-194-080		CAP, CHIP 0.047	RY101	87-A90-464-010		RELAY, DG12D2-0(M)
C812	87-010-197-080		CAP, CHIP 0.01 DM	SFR301	87-024-435-080		SFR, 33K H RH063MC
C814	87-010-197-080		CAP, CHIP 0.01 DM	SFR302	87-024-435-080		SFR, 33K H RH063MC
C820	87-010-408-080		CAP, ELECT 47-50V	SFR303	87-024-435-080		SFR, 33K H RH063MC
C821	87-010-197-080		CAP, CHIP 0.01 DM	SFR304	87-024-435-080		SFR, 33K H RH063MC
C822	87-010-197-080		CAP, CHIP 0.01 DM	SFR305	87-024-436-080		SFR, 47K H RH063MC
C823	87-010-197-080		CAP, CHIP 0.01 DM	SFR306	87-024-436-080		SFR, 47K H RH063MC
C828	87-010-196-080		CHIP CAPACITOR, 0.1-25	SFR351	87-024-436-080		SFR, 47K H RH063MC
C829	87-010-196-080		CHIP CAPACITOR, 0.1-25	SFR352	87-024-436-080		SFR, 47K H RH063MC
C859	87-010-197-080		CAP, CHIP 0.01 DM<EZ>	TC942	87-011-221-080		CAP, TRIMMER 30P<EZ, K>
C863	87-012-140-080		CAP 470P<EZ>	TH201	87-A90-221-080		C-THMS, 100K
C864	87-010-405-080		CAP, ELECT 10-50V<EZ>	TH202	87-A90-221-080		C-THMS, 100K
C865	87-010-196-080		CHIP CAPACITOR, 0.1-25<EZ>	W104	88-NF3-665-010		F-CABLE, 7P -2.5 (GETA)
C866	87-010-405-080		CAP, ELECT 10-50V<EZ>	WH102	87-A90-142-010		HOLDER, 51052-0710 V0
C867	87-010-197-080		CAP, CHIP 0.01 DM<EZ>	WH102	87-A90-142-010		HOLDER, 51052-0710 V0
C868	87-010-316-080		C-CAP, S 33P-50 CH<EZ>	X721	87-A70-061-010		VIB, XTAL 4.500MHZ CSA-309
C869	87-010-314-080		C-CAP, S 22P-50 V<EZ>	X851	87-A70-091-010		VIB, XTAL 4.332MHZ CSA-309<EZ>
C940	87-010-197-080		CAP, CHIP 0.01 DM<EZ, K>				
C947	87-010-197-080		CAP, CHIP 0.01 DM<EZ, K>				
C952	87-010-197-080		CAP, CHIP 0.01 DM<EZ, K>				
C957	87-010-311-080		CAP, 12 P<EZ, K>	C101	87-010-182-080		C-CAP, S 2200P-50 B
C958	87-010-197-080		CAP, CHIP 0.01 DM<EZ, K>	C102	87-010-182-080		C-CAP, S 2200P-50 B
C959	87-010-196-080		CHIP CAPACITOR, 0.1-25	C104	87-010-312-080		C-CAP, S 15P-50 CH
C960	87-010-196-080		CHIP CAPACITOR, 0.1-25	C105	87-010-316-080		C-CAP, S 33P-50 CH
C961	87-010-152-080		C-CAP, S 8P-50 CH	C106	87-010-320-080		CHIP CAP 68P
C962	87-010-401-080		CAP, ELECT 1/50V<EZ, K>	C107	87-012-157-080		C-CAP, S 330P-50 CH
CF801	87-008-423-010		CERAMIC FILTER SFE10.7<EZ, K>	C108	87-010-498-040		CAP, E 10-16 GAS
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<V>	C109	87-010-401-040		CAP, E 1-50 SME
CF802	82-785-747-010		CF, MS2 GHY, R<EZ, K>	C110	87-A10-369-080		C-CAP, S 0.47-16 K B
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<V>	C111	87-010-196-080		CHIP CAPACITOR, 0.1-25
CN301	87-A60-620-010		CONN, 3P V 2MM JMT	C112	87-010-196-080		CHIP CAPACITOR, 0.1-25
CN351	87-A60-625-010		CONN, 8P V 2MM JMT	C113	87-A10-189-040		CAP, E 220-10
CN451	87-A60-130-010		CONN, 5P V FE	C114	87-010-196-080		CHIP CAPACITOR, 0.1-25
CN551	87-A60-619-010		CONN, 2P V 2MM JMT	C115	87-010-178-080		CHIP CAP 1000P
CN601	87-099-719-010		CONN, 30P TYK-B(X)	C116	87-010-494-040		CAP, E 1-50 GAS
CN602	87-A60-131-010		CONN, 6P V FE	C117	87-010-263-040		CAP, E 100-10
CON351	88-NF3-666-010		CONN ASSY, 8P RPB	C118	87-010-194-080		CAP, CHIP 0.047
FB301	87-008-372-080		FILTER, EMI BL QIRNI	C119	87-010-408-040		CAP, E 47-50 SME
FB601	87-A50-190-080		C-COIL, S BLM21A102S	C120	87-010-404-040		CAP, E 4.7-50 SME
FC451	88-905-451-110		FF-CABLE, 5P 1.25	C121	87-010-404-040		CAP, E 4.7-50 SME
FC602	88-906-261-110		FF-CABLE, 6P 1.25 260MM	C122	87-010-194-080		CAP, CHIP 0.047
FFE801	A8-6ZA-191-130		6ZA-1 FEENM<EZ, K>	C123	87-010-196-080		CHIP CAPACITOR, 0.1-25
FFE801	A8-6ZA-193-030		6ZA-1 FEVNFM<V>	C124	87-010-196-080		CHIP CAPACITOR, 0.1-25
J203	87-033-240-010		TERMINAL, SP 4P32SV1-05	C125	87-010-196-080		CHIP CAPACITOR, 0.1-25
J211	87-A60-483-010		JACK, DIA6.3 BLK ST W/S KM	C126	87-010-263-040		CAP, E 100-10

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C127	87-010-196-080		CHIP CAPACITOR, 0.1-25	C801	87-010-263-040		CAP, E 100-10
C128	87-010-309-080		C-CAP, 1000P-50 CH	C802	87-010-196-080		CHIP CAPACITOR, 0.1-25
C129	87-012-157-080		C-CAP, S 330P-50 CH	C803	87-010-400-040		CAP, E 0.47-50
C130	87-A10-189-040		CAP, E 220-10	C901	87-010-421-040		CAP, E 4.7-50 5L
C150	87-010-194-080		CAP, CHIP 0.047	C902	87-A10-818-040		CAP, E 100-16 7LSRA SERIES
C151	87-010-194-080		CAP, CHIP 0.047	C905	87-010-493-040		CAP, E 0.47-50 GAS
C240	87-010-176-080		C-CAP, S 680P-50 SL	C906	87-010-196-080		CHIP CAPACITOR, 0.1-25
C241	87-012-140-080		C-CAP, S 470P-50 CH	C907	87-010-196-080		CHIP CAPACITOR, 0.1-25
C242	87-012-140-080		C-CAP, S 470P-50 CH	C908	87-010-400-040		CAP, E 0.47-50
C243	87-012-140-080		C-CAP, S 470P-50 CH	C910	87-A10-369-080		C-CAP, S 0.47-16 K B
C244	87-012-140-080		C-CAP, S 470P-50 CH	C911	87-010-197-080		CAP, CHIP 0.01 DM
C245	87-012-140-080		C-CAP, S 470P-50 CH	C912	87-010-196-080		CHIP CAPACITOR, 0.1-25
C246	87-012-140-080		C-CAP, S 470P-50 CH	C913	87-010-185-080		C-CAP, S 3900P-50 B
C247	87-012-140-080		C-CAP, S 470P-50 CH	C914	87-010-596-080		CAP, S 0.047-16
C248	87-012-140-080		C-CAP, S 470P-50 CH	C915	87-010-181-080		CAP, CHIP S 1800P
C249	87-010-176-080		C-CAP, S 680P-50 SL	C916	87-010-198-080		CAP, CHIP 0.022
C250	87-010-176-080		C-CAP, S 680P-50 SL	C917	87-010-176-080		C-CAP, S 680P-50 SL
C251	87-010-176-080		C-CAP, S 680P-50 SL	C918	87-010-188-080		CAP, CHIP 6800P
C252	87-010-178-080		CHIP CAP 1000P	C919	87-012-145-080		CAP, CHIP S 270P CH
C281	87-010-182-080		C-CAP, S 2200P-50 B	C920	87-010-183-080		C-CAP, S 2700P-50 B
C282	87-010-182-080		C-CAP, S 2200P-50 B	C921	87-015-696-040		CAP, E 2.2-50 SRA
C301	87-010-196-080		CHIP CAPACITOR, 0.1-25	C922	87-015-696-040		CAP, E 2.2-50 SRA
C302	87-010-196-080		CHIP CAPACITOR, 0.1-25	C924	87-010-198-080		CAP, CHIP 0.022
C303	87-010-196-080		CHIP CAPACITOR, 0.1-25	C925	87-A10-369-080		C-CAP, S 0.47-16 K B
C351	87-012-158-080		C-CAP, S 390P-50 CH	C926	87-010-197-080		CAP, CHIP 0.01 DM
C352	87-010-196-080		CHIP CAPACITOR, 0.1-25	C927	87-010-196-080		CHIP CAPACITOR, 0.1-25
C353	87-010-196-080		CHIP CAPACITOR, 0.1-25	C928	87-010-185-080		C-CAP, S 3900P-50 B
C354	87-010-196-080		CHIP CAPACITOR, 0.1-25	C929	87-010-596-080		CAP, S 0.047-16
C355	87-010-196-080		CHIP CAPACITOR, 0.1-25	C930	87-010-181-080		CAP, CHIP S 1800P
C356	87-010-196-080		CHIP CAPACITOR, 0.1-25	C931	87-010-198-080		CAP, CHIP 0.022
C357	87-010-196-080		CHIP CAPACITOR, 0.1-25	C932	87-010-176-080		C-CAP, S 680P-50 SL
C501	87-A10-804-080		C-CAP, S 0.1-25 J B	C933	87-010-188-080		CAP, CHIP 6800P
C502	87-A10-804-080		C-CAP, S 0.1-25 J B	C934	87-012-145-080		CAP, CHIP S 270P CH
C503	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	C935	87-010-183-080		C-CAP, S 2700P-50 B
C504	87-010-186-080		CAP, CHIP 4700P	C952	87-010-178-080		CHIP CAP 1000P
C505	87-010-178-080		CHIP CAP 1000P	C962	87-010-178-080		CHIP CAP 1000P
C506	87-A10-803-080		C-CAP, S 0.068-16 J B CM	C965	87-010-313-080		CAP, CHIP 18P
C507	87-A10-803-080		C-CAP, S 0.068-16 J B CM	C966	87-010-313-080		CAP, CHIP 18P
C508	87-010-186-080		CAP, CHIP 4700P	CN101	87-099-720-010		CONN, 30P BLK TYK-B(P)
C509	87-010-178-080		CHIP CAP 1000P	CN102	87-A60-137-010		CONN, 12PV FE
C510	87-012-141-080		CHIP-CAPACITOR, 0.22-16F	CN301	87-A60-079-010		CONN, 08P H 9604S-08F
C511	87-010-196-080		CHIP CAPACITOR, 0.1-25	CN502	87-099-209-010		COMM, 4P 6216H
C512	87-010-263-040		CAP, E 100-10	CN701	87-A60-140-010		CONN, 15P V FE
C513	87-A10-723-040		CAP, E 2.2-35 5L SSE	CN801	87-A60-077-010		CONN, 10P H 9604S-10F
C514	87-A10-723-040		CAP, E 2.2-35 5L SSE	FC102	88-912-201-110		FF-CABLE, 12P-1.25
C515	87-010-183-080		C-CAP, S 2700P-50 B	FC502	88-904-261-110		FF-CABLE, 4P 1.25 260MM
C516	87-010-183-080		C-CAP, S 2700P-50 B	FC701	88-915-181-110		FF-CABLE, 15P 1.25
C518	87-010-196-080		CHIP CAPACITOR, 0.1-25	FL101	88-NP3-611-010		FL, 150X60X12.5 8NF-3
C519	87-010-263-040		CAP, E 100-10	J601	87-A60-651-010		JACK, 3.5MONO
C601	87-010-405-040		CAP, E 10-50	J602	87-A60-651-010		JACK, 3.5MONO
C602	87-010-186-080		CAP, CHIP 4700P	L901	87-007-340-010		COIL, CLOCK 4.19MHZ
C603	87-010-498-040		CAP, E 10-16 GAS	LED401	87-A40-259-080		LED, SLR-342VCT31 RED
C604	87-010-499-040		CAP, E 22-6.3 GAS	LED402	87-A40-259-080		LED, SLR-342VCT31 RED
C605	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED403	87-A40-259-080		LED, SLR-342VCT31 RED
C607	87-010-321-080		CHIP CAPACITOR, 82P(J)	LED404	87-A40-259-080		LED, SLR-342VCT31 RED
C608	87-010-196-080		CHIP CAPACITOR, 0.1-25	LED405	87-A40-259-080		LED, SLR-342VCT31 RED
C609	87-010-545-040		CAP, E 0.22-50 SME	LED406	87-070-197-080		LED, SLP7118C-51-S P-GRN
C611	87-010-177-080		C-CAP, S 820P-50 SL	LED407	87-070-197-080		LED, SLP7118C-51-S P-GRN
C613	87-010-322-080		C-CAP, S 100P-50 CH	LED408	87-070-197-080		LED, SLP7118C-51-S P-GRN
C614	87-010-248-040		CAP, E 220-10 SME	LED409	87-070-197-080		LED, SLP7118C-51-S P-GRN
C621	87-010-405-040		CAP, E 10-50	LED410	87-070-197-080		LED, SLP7118C-51-S P-GRN
C634	87-015-678-040		CAP, E 22-10 M 7L SRA	LED411	87-070-197-080		LED, SLP7118C-51-S P-GRN
C705	87-010-091-080		C-CAP 22P-50 CH	LED412	87-070-197-080		LED, SLP7118C-51-S P-GRN
C706	87-010-314-080		C-CAP, S 22P-50V	LED413	87-070-197-080		LED, SLP7118C-51-S P-GRN
C707	87-010-314-080		C-CAP, S 22P-50V	LED414	87-070-197-080		LED, SLP7118C-51-S P-GRN
C710	87-012-157-080		C-CAP, S 330P-50 CH	LED415	87-070-197-080		LED, SLP7118C-51-S P-GRN
C711	87-012-157-080		C-CAP, S 330P-50 CH	LED416	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN
C712	87-012-157-080		C-CAP, S 330P-50 CH	LED417	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN
C720	87-012-157-080		C-CAP, S 330P-50 CH	LED418	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN
C721	87-012-157-080		C-CAP, S 330P-50 CH	LED419	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED420	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN	C208	87-010-401-080		CAP, ELECT 1-50V
LED421	87-070-281-080		LED, SLZ736A-25H-S-T1 P-GRN	C209	87-010-181-080		CAP, CHIP S 1800P
LED431	87-070-278-010		LED, SLZ-738A-24-S PGRN	C210	87-010-181-080		CAP, CHIP S 1800P
LED432	87-070-278-010		LED, SLZ-738A-24-S PGRN	C211	87-010-545-080		CAP, ELECT 0.22-50V
LED433	87-070-290-010		LED, SLZ 936-30-S RED	C212	87-010-545-080		CAP, ELECT 0.22-50V
LED434	87-070-290-010		LED, SLZ 936-30-S RED	C213	87-010-184-080		CHIP CAPACITOR 3300P(K)
LED435	87-070-278-010		LED, SLZ-738A-24-S PGRN	C214	87-010-184-080		CHIP CAPACITOR 3300P(K)
LED436	87-070-278-010		LED, SLZ-738A-24-S PGRN	C215	87-010-322-080		C-CAP,S 100P-50 CH
PR107	87-A90-560-080		PROTECTOR, 0.630A 60V	C216	87-010-322-080		C-CAP,S 100P-50 CH
R243	87-A00-258-080		RES,M/F 0.22-1W J	C217	87-010-402-080		CAP, ELECT 2.2-50V
R244	87-A00-258-080		RES,M/F 0.22-1W J	C218	87-010-402-080		CAP, ELECT 2.2-50V
R245	87-A00-258-080		RES,M/F 0.22-1W J	C219	87-A10-812-080		C-CAP,S 220P-200 J CH
R246	87-A00-258-080		RES,M/F 0.22-1W J	C220	87-A10-812-080		C-CAP,S 220P-200 J CH
R300	87-022-355-080		C-RES,510K-1/10W F	C221	87-010-913-080		CAP,E 47-25 ASF BP
R301	87-022-355-080		C-RES,510K-1/10W F	C222	87-010-913-080		CAP,E 47-25 ASF BP
R314	87-022-355-080		C-RES,510K-1/10W F	C223	87-010-544-080		CAP, ELECT 0.1-50V
S302	87-A90-756-080		SW,TACT SINKO	C224	87-010-544-080		CAP, ELECT 0.1-50V
S306	87-A90-756-080		SW,TACT SINKO	C225	87-010-993-080		C-CAP,S 0.056-25 B
S307	87-A90-756-080		SW,TACT SINKO	C226	87-010-993-080		C-CAP,S 0.056-25 B
S308	87-A90-756-080		SW,TACT SINKO	C227	87-010-196-080		CHIP CAPACITOR,0.1-25
S316	87-A90-756-080		SW,TACT SINKO	C228	87-010-196-080		CHIP CAPACITOR,0.1-25
S317	87-A90-756-080		SW,TACT SINKO	C229	87-010-190-080		C-CAP,S 0.01-50 Z F
S318	87-A90-756-080		SW,TACT SINKO	C230	87-010-190-080		C-CAP,S 0.01-50 Z F
S319	87-A90-756-080		SW,TACT SINKO	C231	87-012-153-080		C-CAP,S 120P-50 CH
S320	87-A90-756-080		SW,TACT SINKO	C232	87-012-153-080		C-CAP,S 120P-50 CH
S321	87-A90-756-080		SW,TACT SINKO	C234	87-016-285-080		CAP,E 47-100SME
S322	87-A90-756-080		SW,TACT SINKO	C235	87-016-285-080		CAP,E 47-100SME
S323	87-A90-756-080		SW,TACT SINKO	C237	87-012-368-080		C-CAP,S 0.1-50 F
S324	87-A90-756-080		SW,TACT SINKO	C240	87-010-322-080		C-CAP,S 100P-50 CH
S325	87-A90-756-080		SW,TACT SINKO	C243	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
S326	87-A90-756-080		SW,TACT SINKO	CN101	87-A60-586-010		CONN,4P V FE
S327	87-A90-756-080		SW,TACT SINKO	CN102	87-049-919-010		CONN,3P EH V WHT
S328	87-A90-756-080		SW,TACT SINKO	CN201	87-A60-130-010		CONN,5P V FE
S329	87-A90-756-080		SW,TACT SINKO	J201	87-A60-545-010		JACK,PIN 4P W/R
S330	87-A90-756-080		SW,TACT SINKO	L201	87-003-383-010		COIL,1UH-S
S331	87-A90-756-080		SW,TACT SINKO	L202	87-003-383-010		COIL,1UH-S
S332	87-A90-756-080		SW,TACT SINKO	RY101	87-045-382-010		RELAY,OUAZ-SH-112L
S333	87-A90-756-080		SW,TACT SINKO	KEY C.B			
S334	87-A90-756-080		SW,TACT SINKO	CN302	87-099-201-010		CONN,8P 6216 H
S335	87-A90-756-080		SW,TACT SINKO	FC302	88-908-231-110		FF-CABLE,8P 1.25
S336	87-A90-756-080		SW,TACT SINKO	LED447	87-070-197-080		LED,SLP7118C-51-S P-GRN
S337	87-A90-756-080		SW,TACT SINKO	LED448	87-070-197-080		LED,SLP7118C-51-S P-GRN
S338	87-A90-756-080		SW,TACT SINKO	LED449	87-070-197-080		LED,SLP7118C-51-S P-GRN
S339	87-A90-756-080		SW,TACT SINKO	LED450	87-070-197-080		LED,SLP7118C-51-S P-GRN
S340	87-A90-756-080		SW,TACT SINKO	LED451	87-070-197-080		LED,SLP7118C-51-S P-GRN
S341	87-A90-756-080		SW,TACT SINKO	LED452	87-070-197-080		LED,SLP7118C-51-S P-GRN
S342	87-A90-756-080		SW,TACT SINKO	LED453	87-070-197-080		LED,SLP7118C-51-S P-GRN
S343	87-A90-756-080		SW,TACT SINKO	LED454	87-070-197-080		LED,SLP7118C-51-S P-GRN
S344	87-A90-756-080		SW,TACT SINKO	LED455	87-070-197-080		LED,SLP7118C-51-S P-GRN
S345	87-A90-756-080		SW,TACT SINKO	LED456	87-070-197-080		LED,SLP7118C-51-S P-GRN
S370	87-A90-756-080		SW,TACT SINKO	LED472	87-070-197-080		LED,SLP7118C-51-S P-GRN
S371	87-A90-756-080		SW,TACT SINKO	LED473	87-070-197-080		LED,SLP7118C-51-S P-GRN
S372	87-A90-756-080		SW,TACT SINKO	LED474	87-070-197-080		LED,SLP7118C-51-S P-GRN
S373	87-A90-756-080		SW,TACT SINKO	LED475	87-070-197-080		LED,SLP7118C-51-S P-GRN
S374	87-A90-756-080		SW,TACT SINKO	LED476	87-070-197-080		LED,SLP7118C-51-S P-GRN
S375	87-A90-756-080		SW,TACT SINKO	S309	87-A90-756-080		SW,TACT SINKO
SW101	87-A90-535-010		SW,RTRY EC16B24304	S310	87-A90-756-080		SW,TACT SINKO
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF	S311	87-A90-756-080		SW,TACT SINKO
HIFI-AMP C.B				S312	87-A90-756-080		SW,TACT SINKO
C101	87-012-368-080		C-CAP,S 0.1-50 F	S313	87-A90-756-080		SW,TACT SINKO
C102	87-012-368-080		C-CAP,S 0.1-50 F	S314	87-A90-756-080		SW,TACT SINKO
C103	87-010-917-090		CAP,E 3300-50 M SMG	S315	87-A90-756-080		SW,TACT SINKO
C104	87-010-917-090		CAP,E 3300-50 M SMG	DIAL C.B			
C106	87-010-182-080		C-CAP,S 2200P-50 B	C287	87-010-196-080		CHIP CAPACITOR,0.1-25
C107	87-012-368-080		C-CAP,S 0.1-50 F	CN802	87-A60-077-010		CONN,10P H 9605-10F
C108	87-012-368-080		C-CAP,S 0.1-50 F	FC802	88-910-131-110		FF-CABLE,10P 1.25
C201	87-010-112-080		CAP,ELECT 100-16V	LED460	87-017-368-080		LED,SEL4514C TP-5 PGR
C202	87-010-378-080		CAP,ELECT 10-16V				
C207	87-010-401-080		CAP,ELECT 1-50V				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED461	87-017-368-080		LED, SEL4514C TP-5 PGR	AC2 C.B			
LED462	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR101	87-026-682-080		PROTECTOR, 10A 60V491
LED463	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR102	87-026-682-080		PROTECTOR, 10A 60V491
LED464	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR103	87-026-682-080		PROTECTOR, 10A 60V491
LED465	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR104	87-026-682-080		PROTECTOR, 10A 60V491
LED466	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR105	87-A90-195-080		PROTECTOR 7A 491
LED467	87-017-368-080		LED, SEL4514C TP-5 PGR	△ PR106	87-A90-195-080		PROTECTOR 7A 491
LED468	87-017-368-080		LED, SEL4514C TP-5 PGR	WH101	87-A90-142-010		HOLDER, 51052-0710 V0
LED469	87-017-368-080		LED, SEL4514C TP-5 PGR	WH101	87-A90-142-010		HOLDER, 51052-0710 V0
LED470	87-017-368-080		LED, SEL4514C TP-5 PGR				
LED471	87-017-368-080		LED, SEL4514C TP-5 PGR				
SW102	87-A90-892-010		SW, RTRY EC12E12544-20MM				
AC1 C.B				DECK C.B			
△ F101	87-035-458-010		FUSE, 4A 250V T W/C	CN105	87-099-756-019		CONN, 15P 9604 S F
△ FC101	87-A90-505-080		FUSE CLAMP, TP00351-51	SFR1	87-024-581-019		SFR, 3.3K DIA 6H
△ FC102	87-A90-505-080		FUSE CLAMP, TP00351-51	SOL1	82-ZM1-618-010		SOL ASSY, 27
△ PT101	88-NF3-604-010		PT, EKZ ET196-60 8NF3	SOL2	82-ZM1-618-010		SOL ASSY, 27
△ T101	87-A60-317-010		TERMINAL, 1P MSC	SW1	87-A90-248-019		SW, MICRO ESE11SH2CXQ
△ T102	87-A60-317-010		TERMINAL, 1P MSC	SW2	87-A90-248-019		SW, MICRO ESE11SH2CXQ
				SW3	87-A90-248-019		SW, MICRO ESE11SH2CXQ
				SW4	87-036-110-019		SW, MICRO SPPB62
				SW5	87-036-110-019		SW, MICRO SPPB62
				SW6	87-036-110-019		SW, MICRO SPPB62
				SW8	87-A90-248-019		SW, MICRO ESE11SH2CXQ
				SW9	87-036-110-019		SW, MICRO SPPB62
				W001	82-ZM3-601-019		REN, CORD, 4P-75

HEAD-1 C.B

HEAD-2 C.B

○チップ抵抗部品コード / CHIP RESISTOR PART CODE

チップ抵抗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

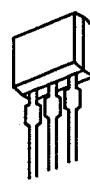
TRANSISTOR ILLUSTRATION



E C B



E C B



E C B



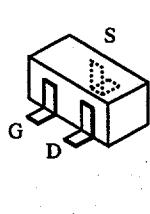
B C E

KTA1266
KTC3198

2SA952
CSB1058
CC5551

2SA933
DTA144

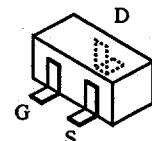
2SB1370
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2SD2439
2SD2494



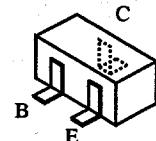
2SK543



2SK2937



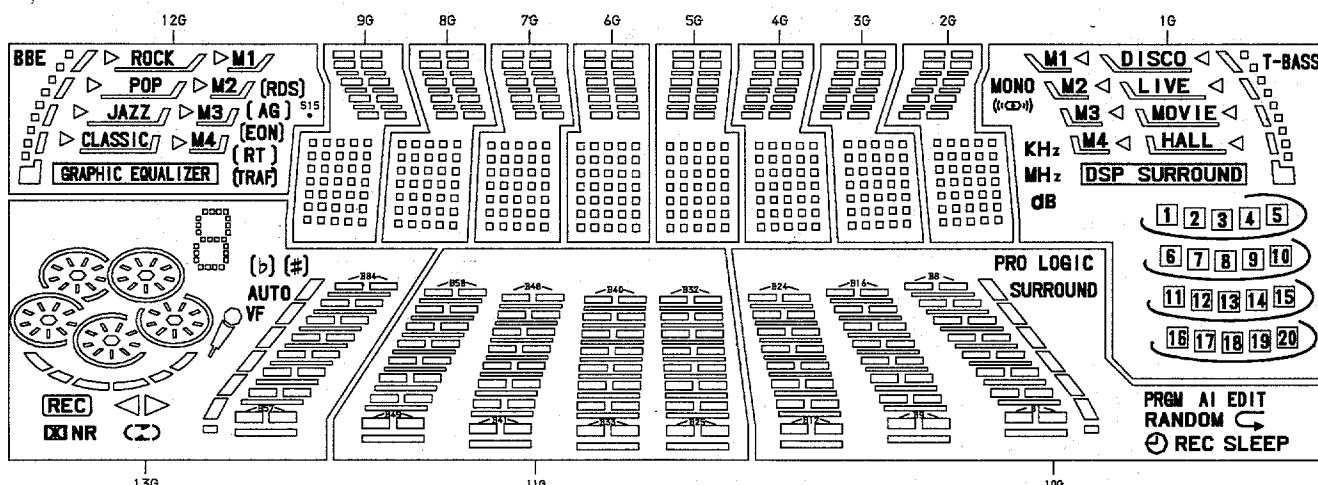
2SK2158



2SA1235	DTA143
2SB1588	RN1410
2SC2714	RT1N141C
2SC3052	RT1N144C
2SC4115	RT1P141C
CMBT5401	RT1P144C
CMBT5551	RT1P441C
CSD1306	
DTA114	

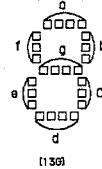
FL GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

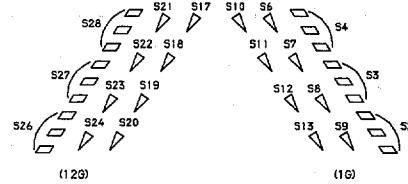


1-1	2-1	3-1	4-1	5-1
1-2	2-2	3-2	4-2	5-2
1-3	2-3	3-3	4-3	5-3
1-4	2-4	3-4	4-4	5-4
1-5	2-5	3-5	4-5	5-5
1-6	2-6	3-6	4-6	5-6
1-7	2-7	3-7	4-7	5-7

[2G ~ 9G]



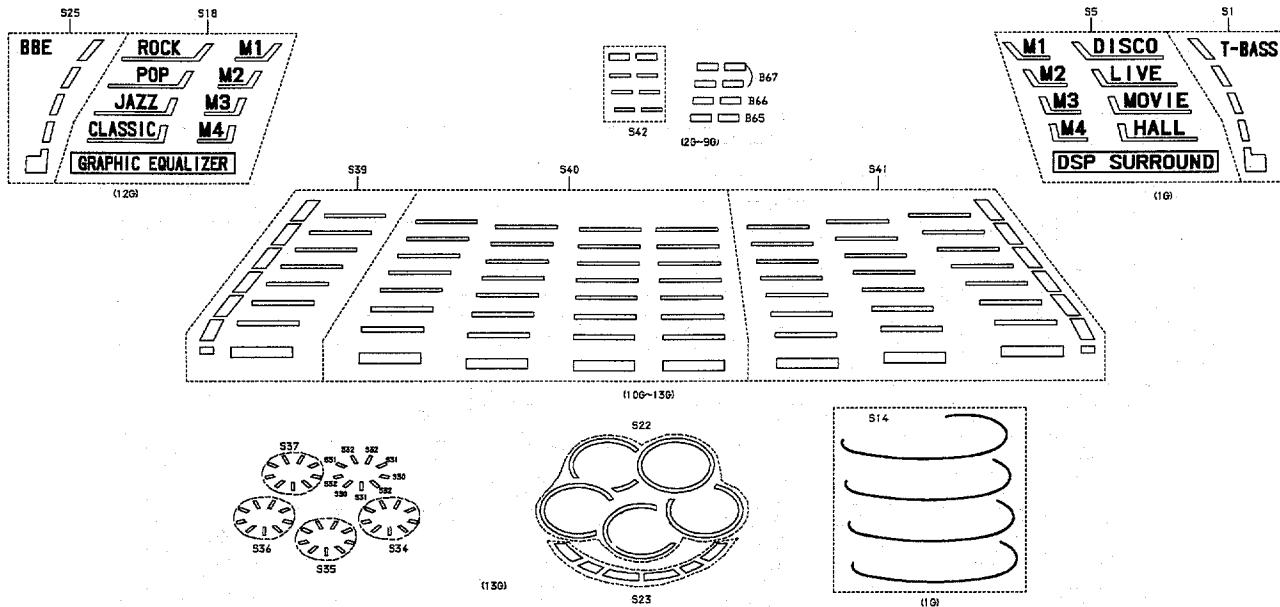
[13G]



(12G)

ANODE CONNECTION

SEGMENT DESIGNATION



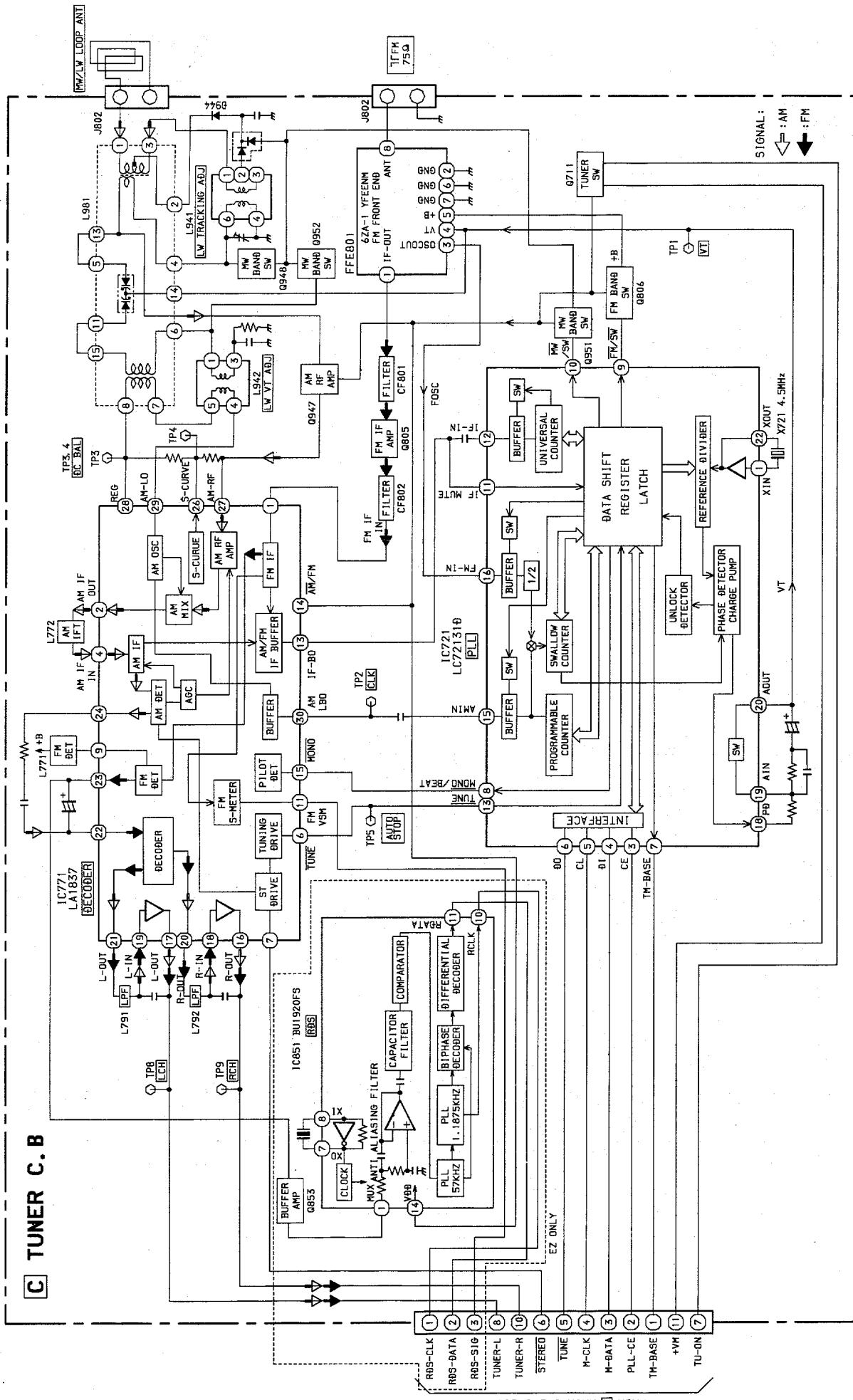
ANODE CONNECTION

I3G	I2G	I1G	I0G	9G~2G	Ig
P1 VF	TRAF	S40	AI	5-7	S1
P2 AUTO	(TRAF)	B32	PRGM	4-7	S2
P3 #	RT	B40	EDIT	3-7	S3
P4 (#)	(RT)	B48	RANDOM	2-7	S4
P5 b	EON	B56		1-7	S5
P6 (b)	(EON)	B31		5-6	S6
P7 S39	AG	B39	REC	4-6	S7
P8	(AG)	B47	SLEEP	3-6	S8
P9	RDS	B55	PRO LOGIC SURROUND	2-6	S9
P10 ((RDS)	B30	S41	1-6	S10
P11	S17	B38	B8	5-5	S11
P12	S18	B46	B16	4-5	S12
P13	S19	B54	B24	3-5	S13
P14	S20	B29	B7	2-5	MONO
P15 B57	S21	B37	B15	1-5	
P16 B58	S22	B45	B23	5-4	KHz
P17 B59	S23	B53	B6	4-4	MHz
P18 B60	S24	B28	B14	3-4	dB
P19 B61	S25	B36	B22	2-4	

	13G	12G	11G	10G	9G 2G	1G
P20	B62	S26	B44	B5	1-4	4
P21	B63	S27	B52	B13	5-3	3
P22	B64	S28	B27	B21	4-3	2
P23	S30	S16	B35	B4	3-3	1
P24	S31	S15	B43	B12	2-3	10
P25	S32	—	B51	B20	1-3	9
P26	S33	—	B26	B3	5-2	8
P27	S34	—	B34	B11	4-2	7
P28	S35	—	B42	B19	3-2	6
P29	S36	—	B50	B2	2-2	15
P30	S37	—	B25	B10	1-2	14
P31	S38	—	B33	B18	5-1	13
P32	a	—	B41	B1	4-1	12
P33	b	—	B49	B9	3-1	11
P34	f	—	—	B17	2-1	20
P35	g	—	—	—	1-1	19
P36	c	—	—	—	B65	18
P37	e	—	—	—	B66	17
P38	d	—	—	—	B67	16
P39	—	—	—	—	S42	S14

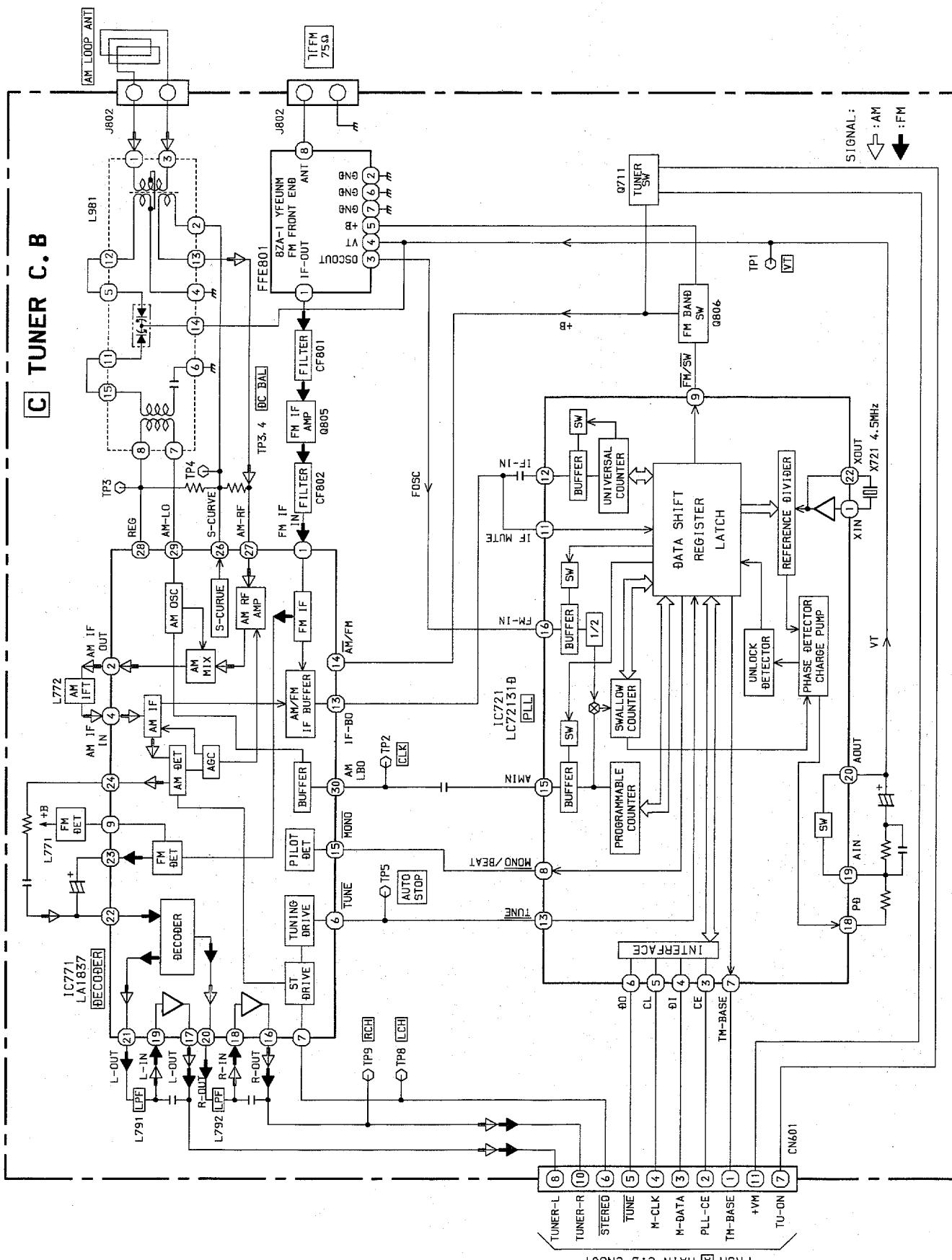
BLOCK DIAGRAM – 1

(EZ, K : MAIN C.B 2/2)

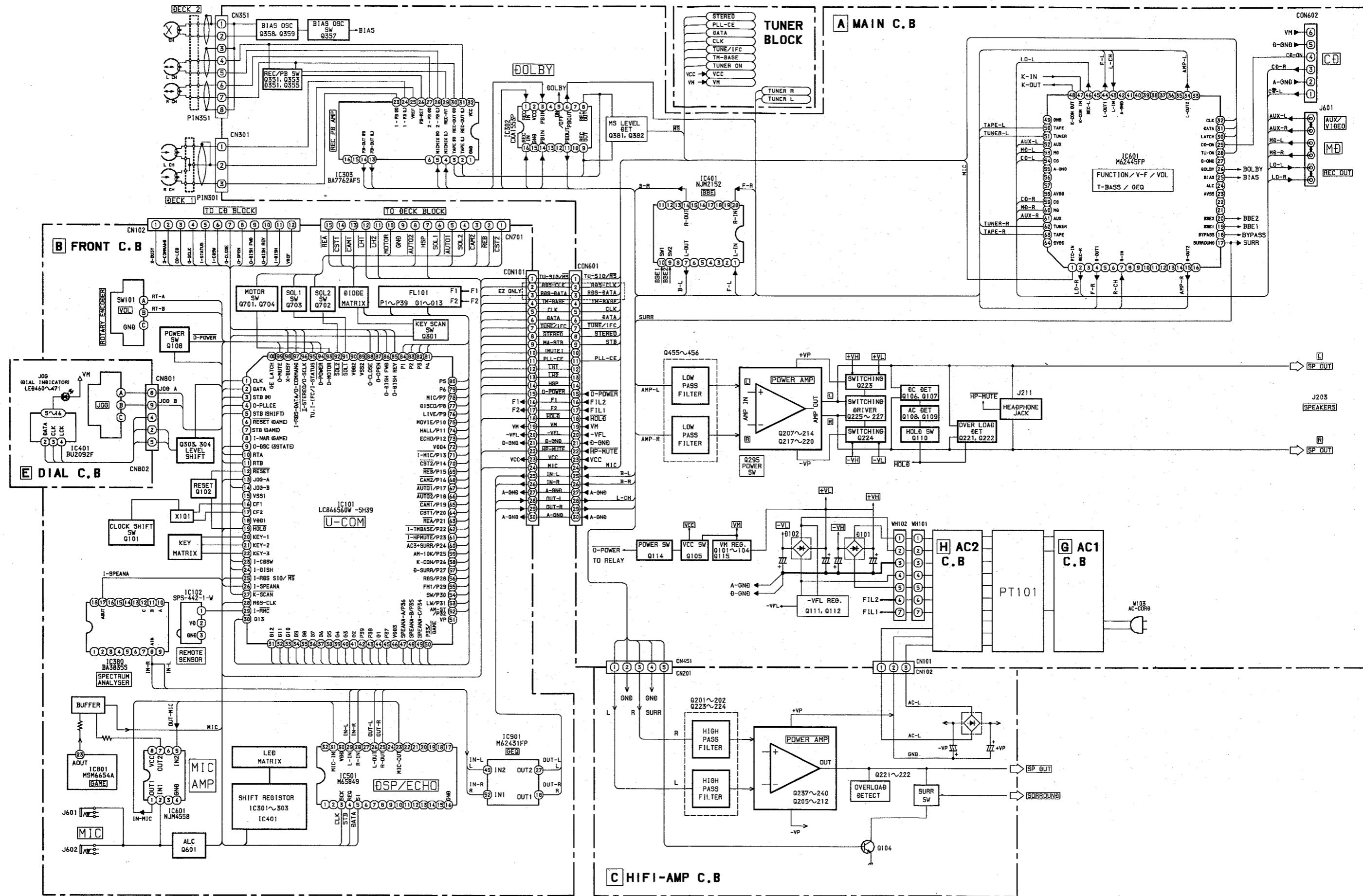


BLOCK DIAGRAM – 2

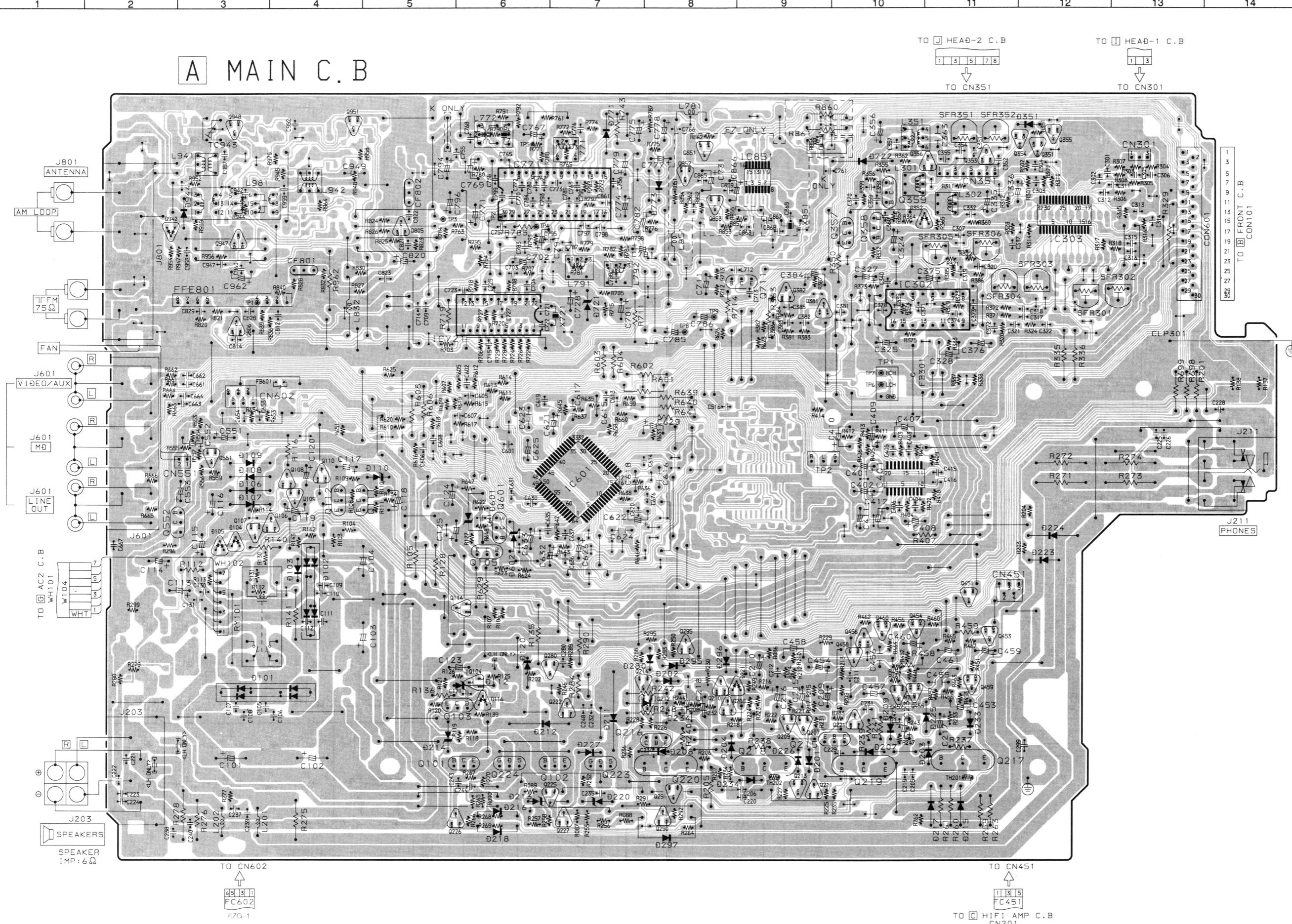
(V : MAIN C.B 2/2)

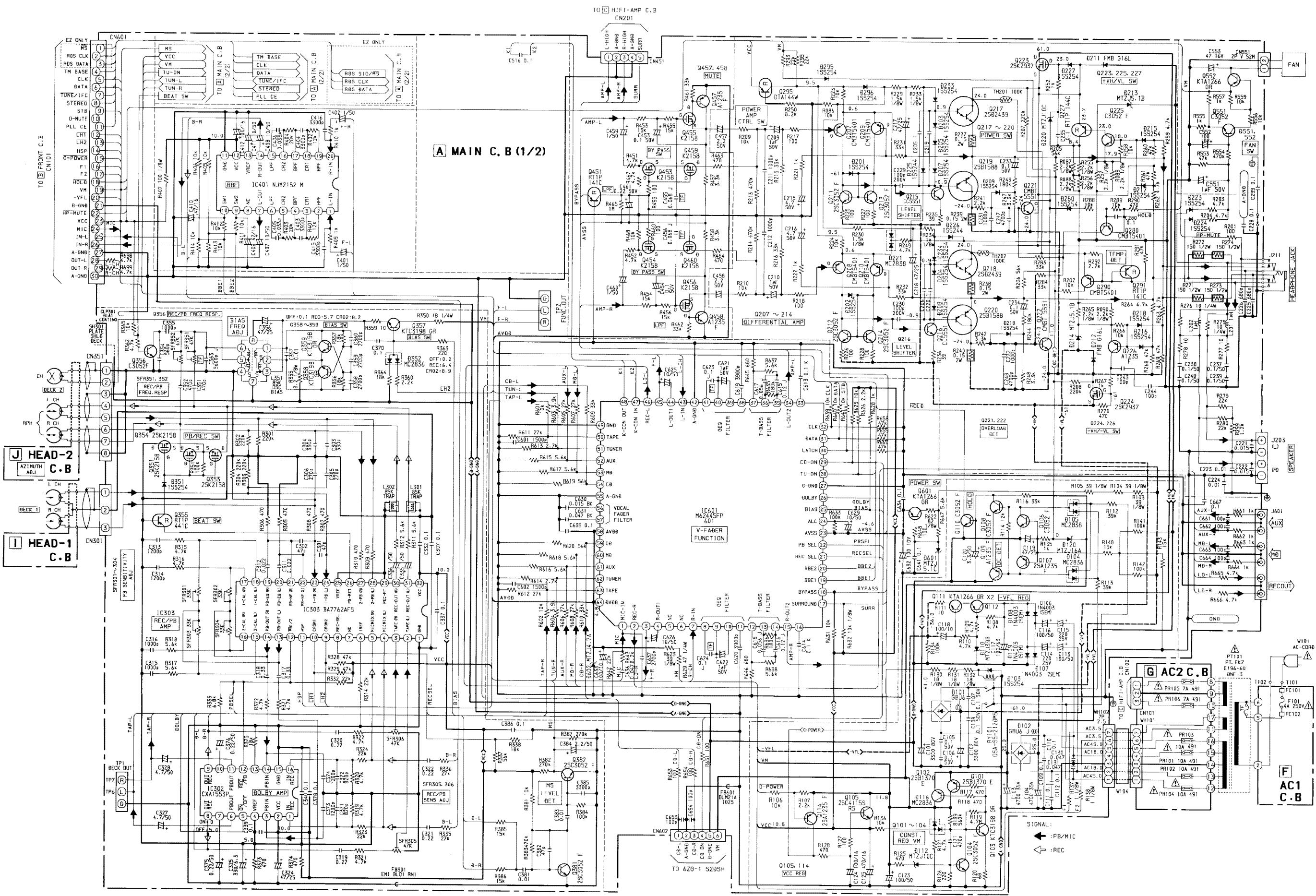


BLOCK DIAGRAM – 3 (MAIN / FRONT)

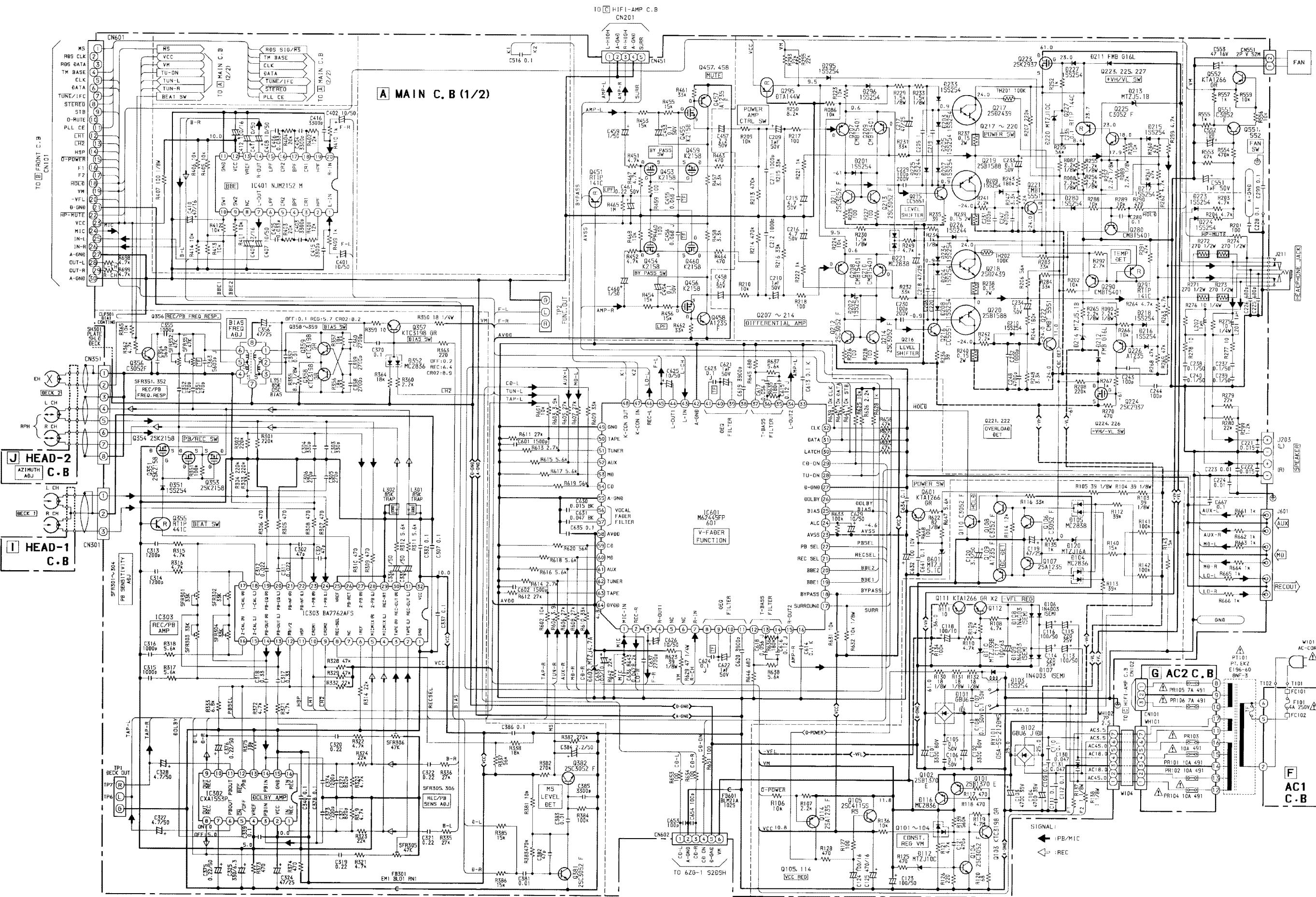


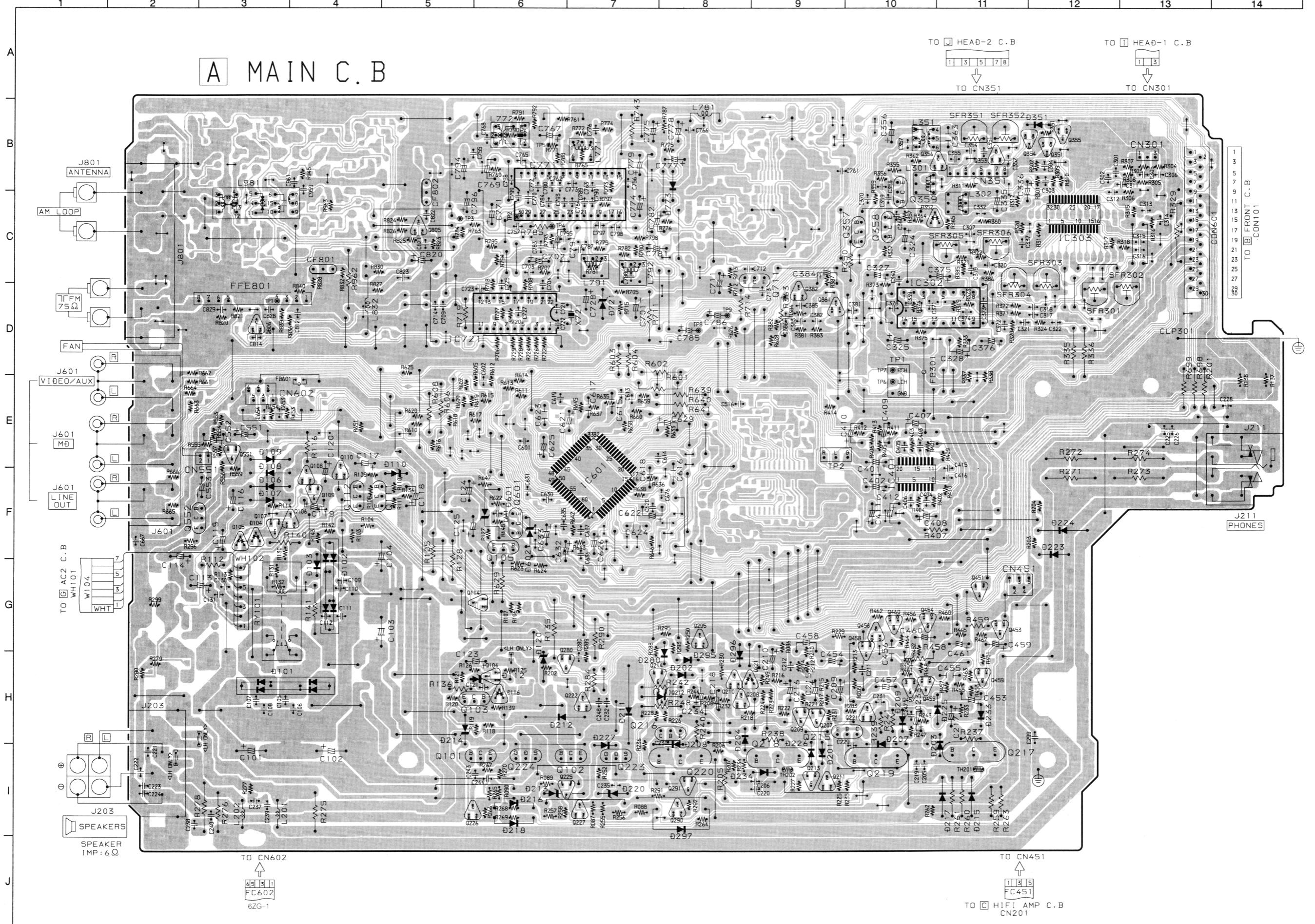
WIRING – 1 (EZ, K : MAIN)





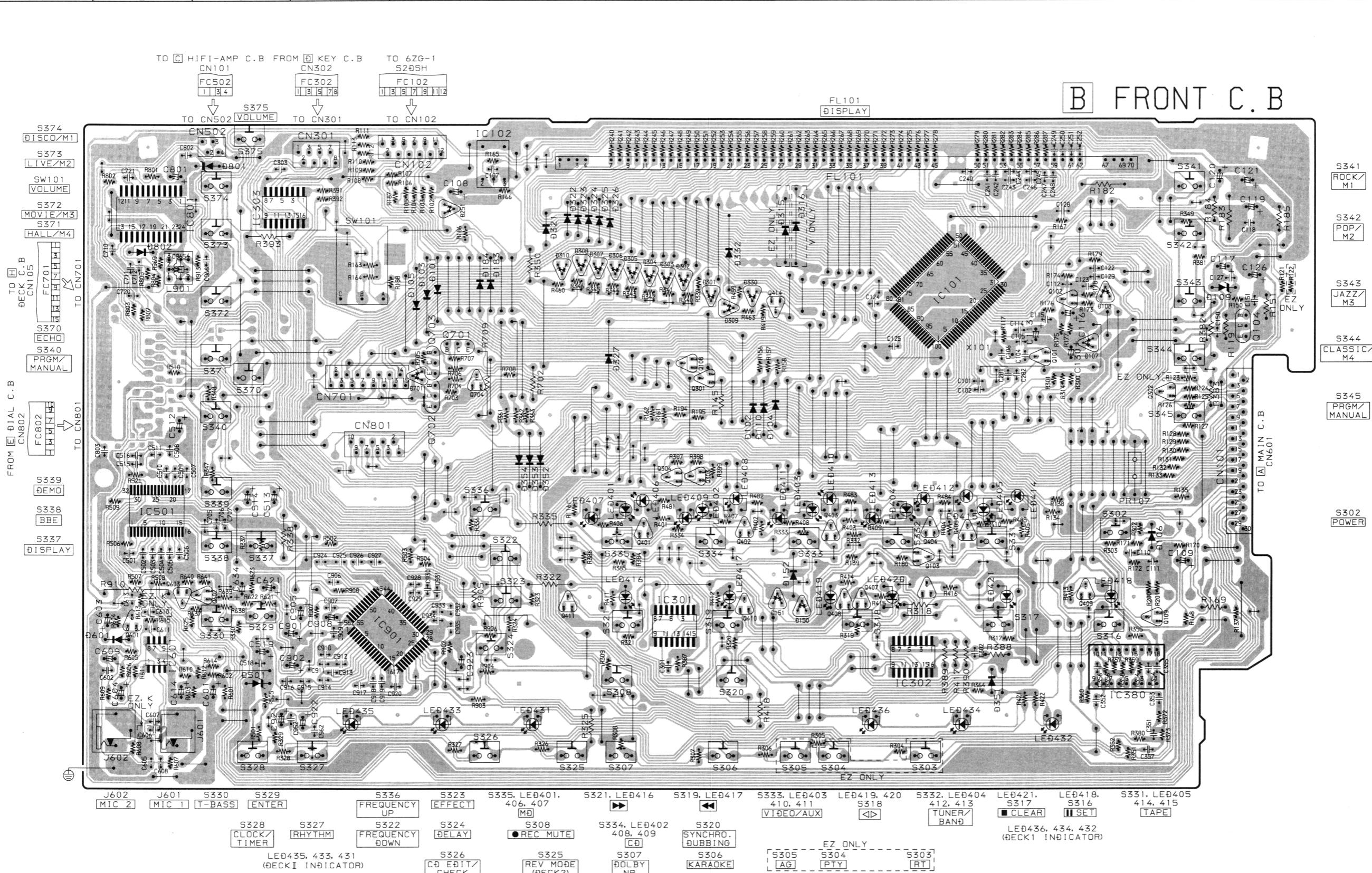
SCHEMATIC DIAGRAM – 2 (V : MAIN 1 / 2)



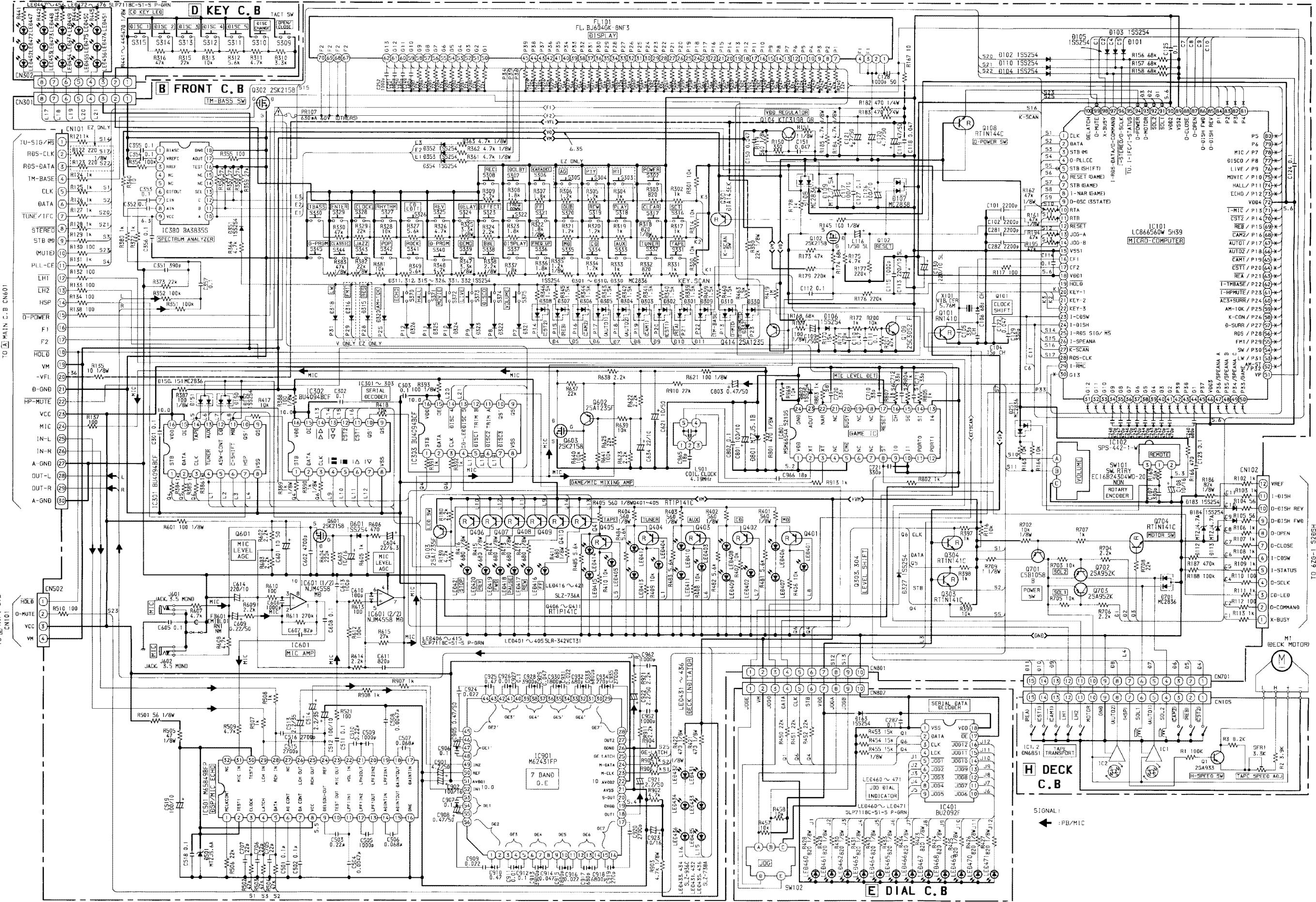


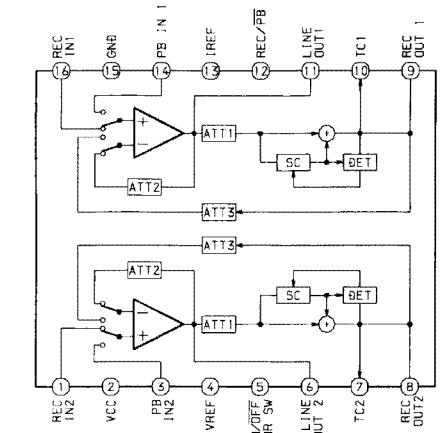
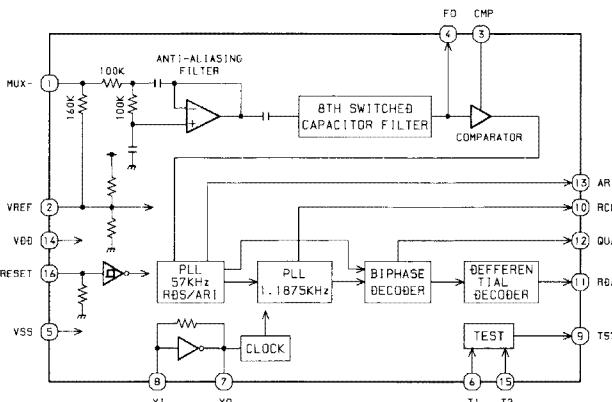
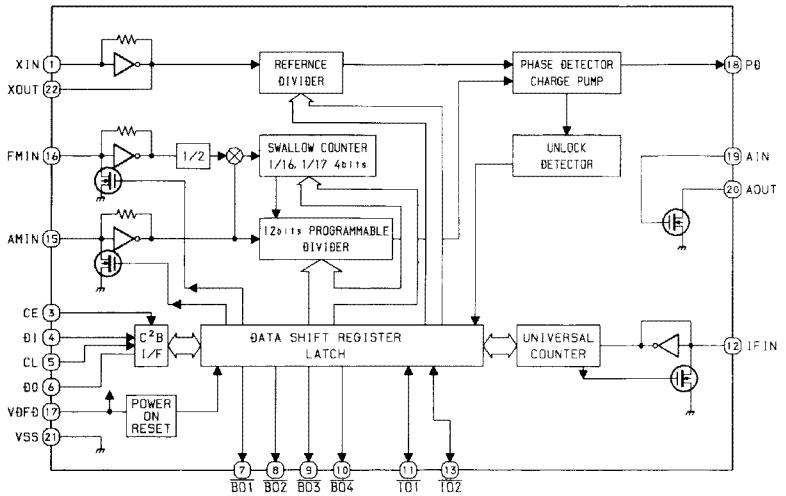
WIRING – 3 (FRONT)

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

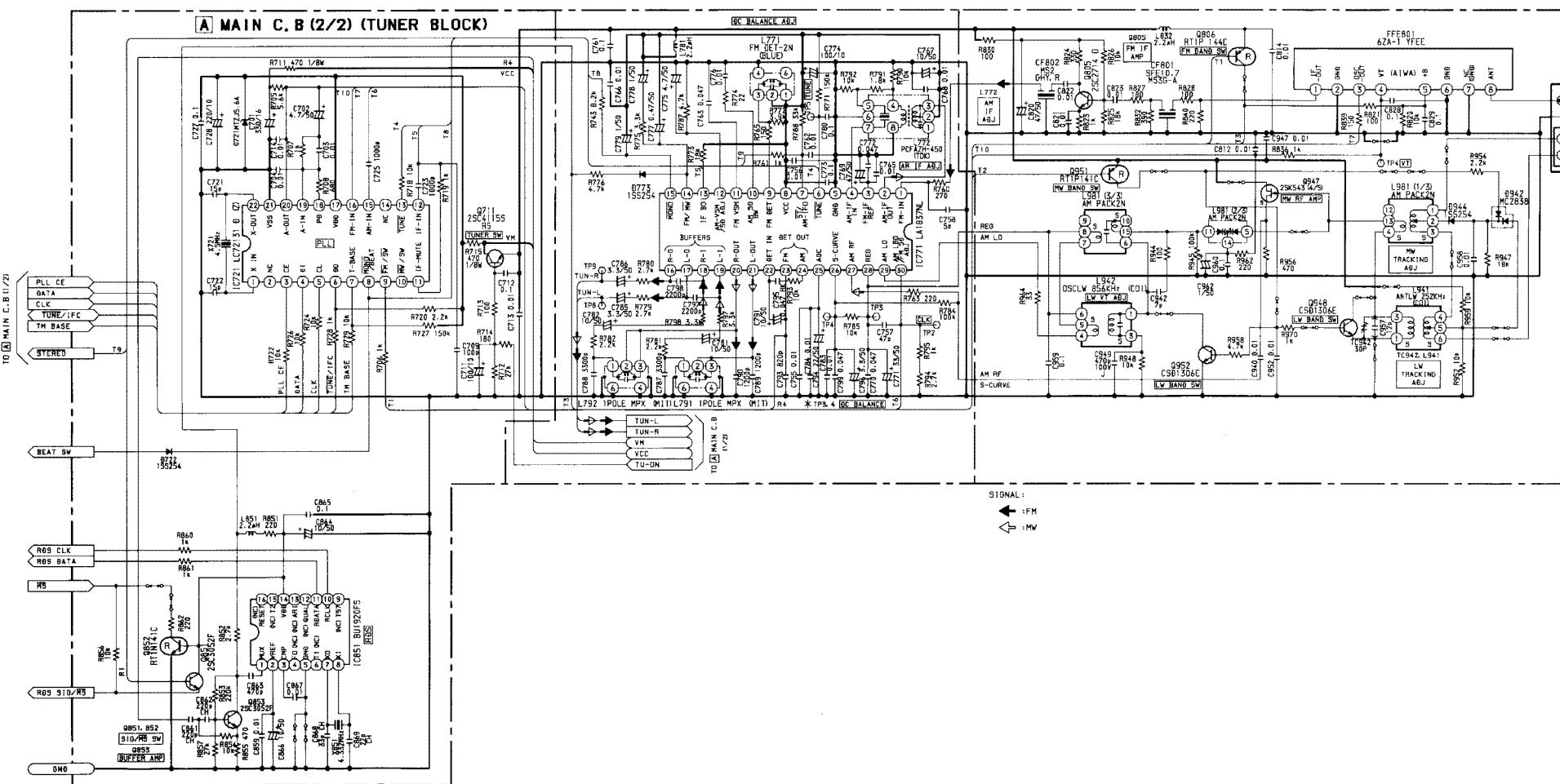


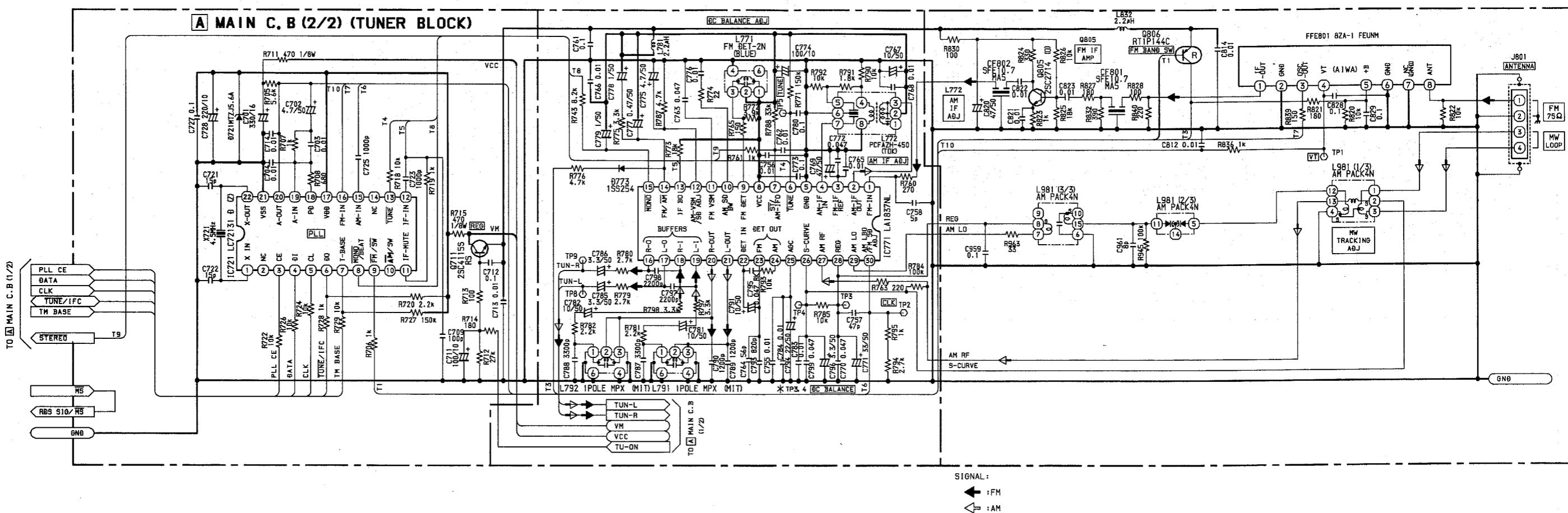
SCHEMATIC DIAGRAM – 3 (FRONT)





SCHEMATIC DIAGRAM – 4 (EZ, K : TUNER)





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

A

B

6

D

F

5

G

H

1

J

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

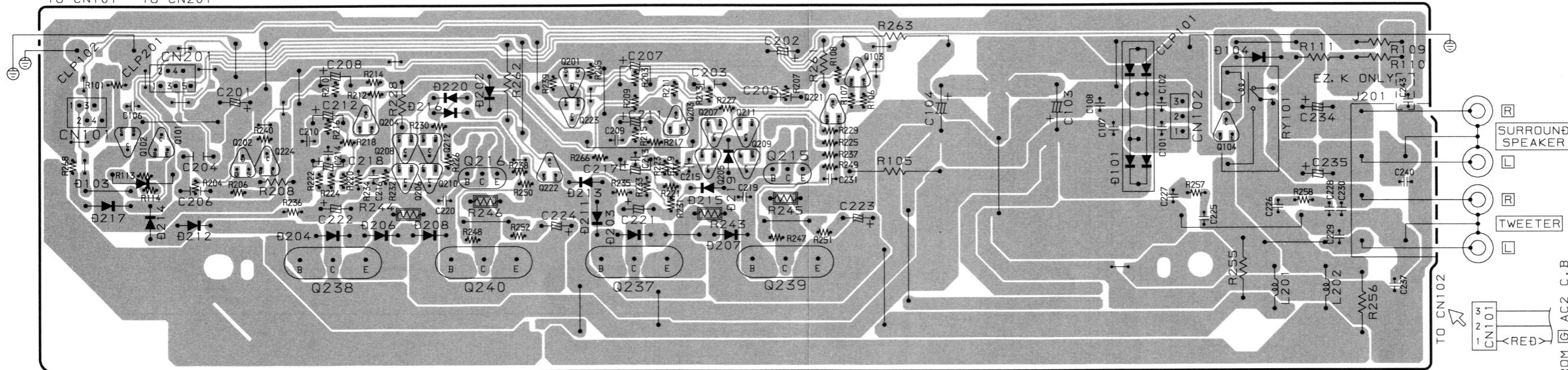
FROM B
FRONT C.B
CN502

FC502
1 3 4

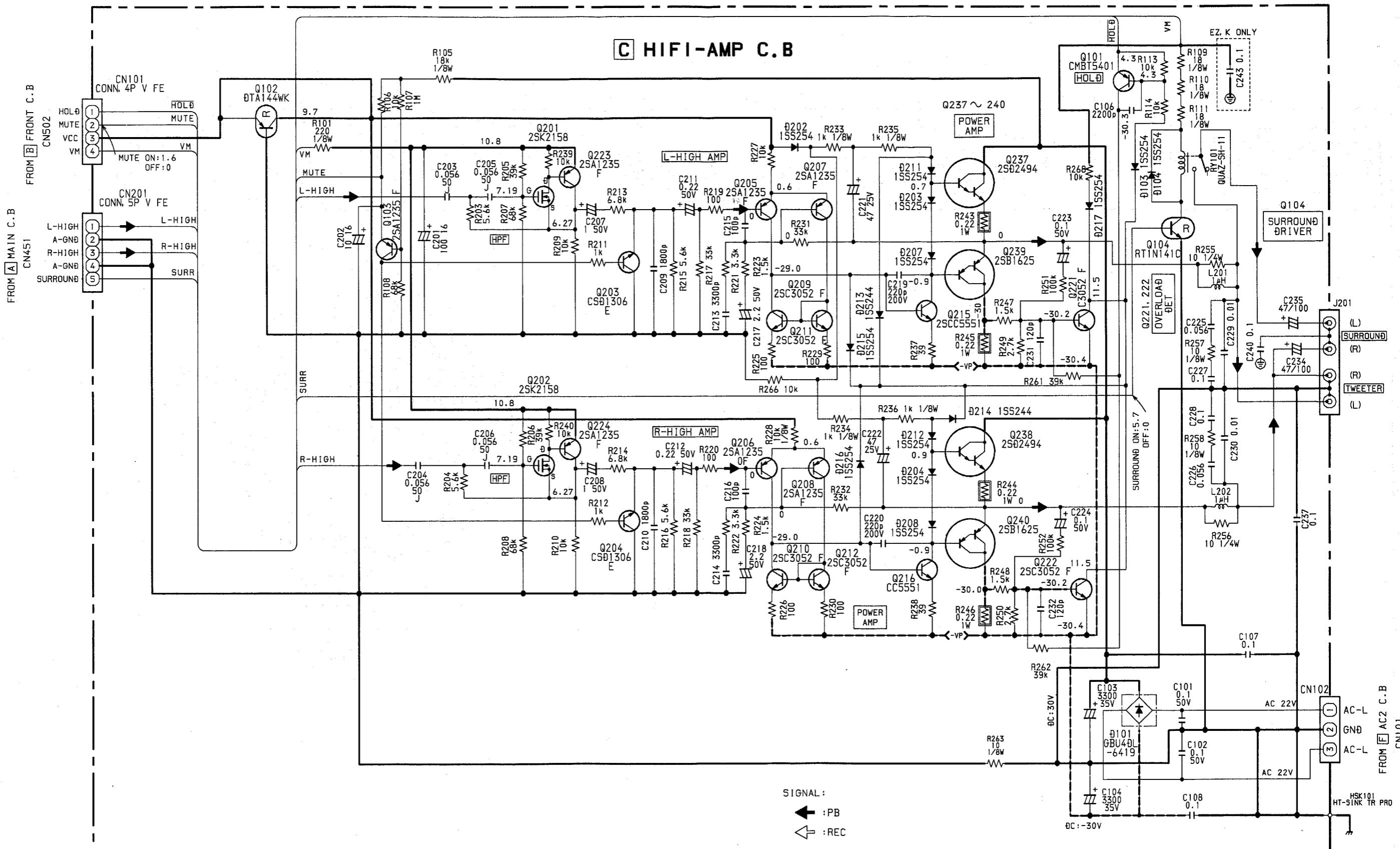
FROM A
MAIN C.B
CN451

FC451
1 3 5

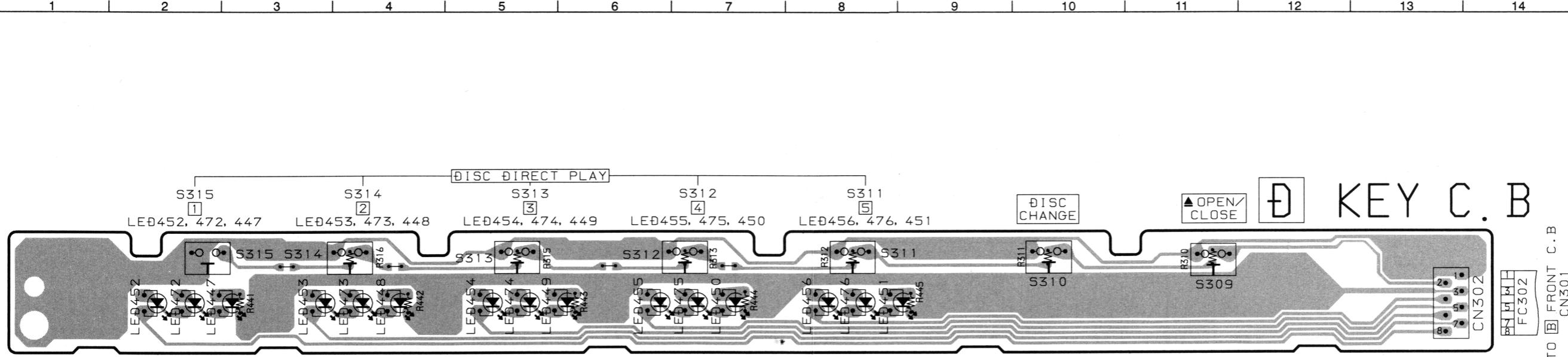
C HIFI-AMP C. E.



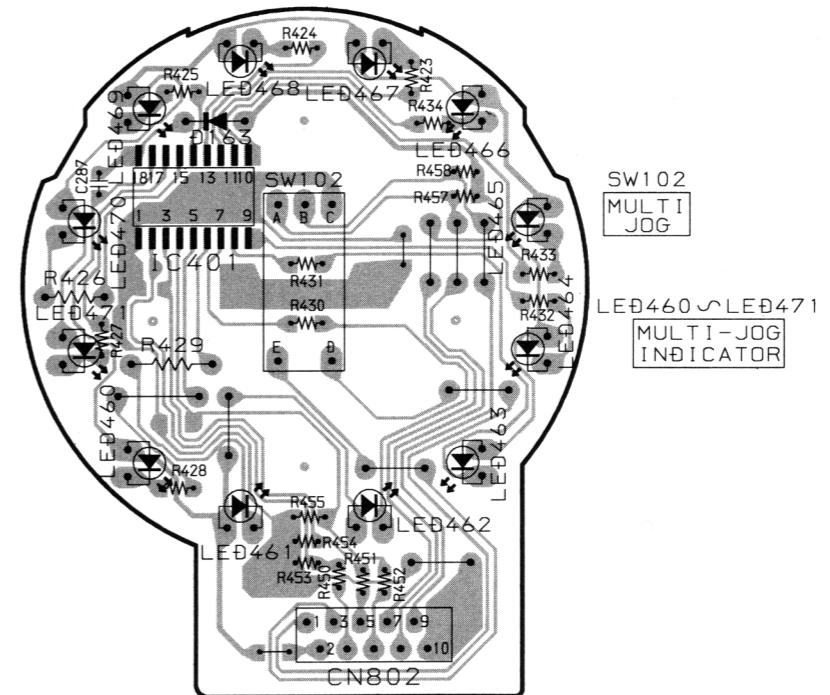
SCHEMATIC DIAGRAM – 6 (HIFI – AMP)



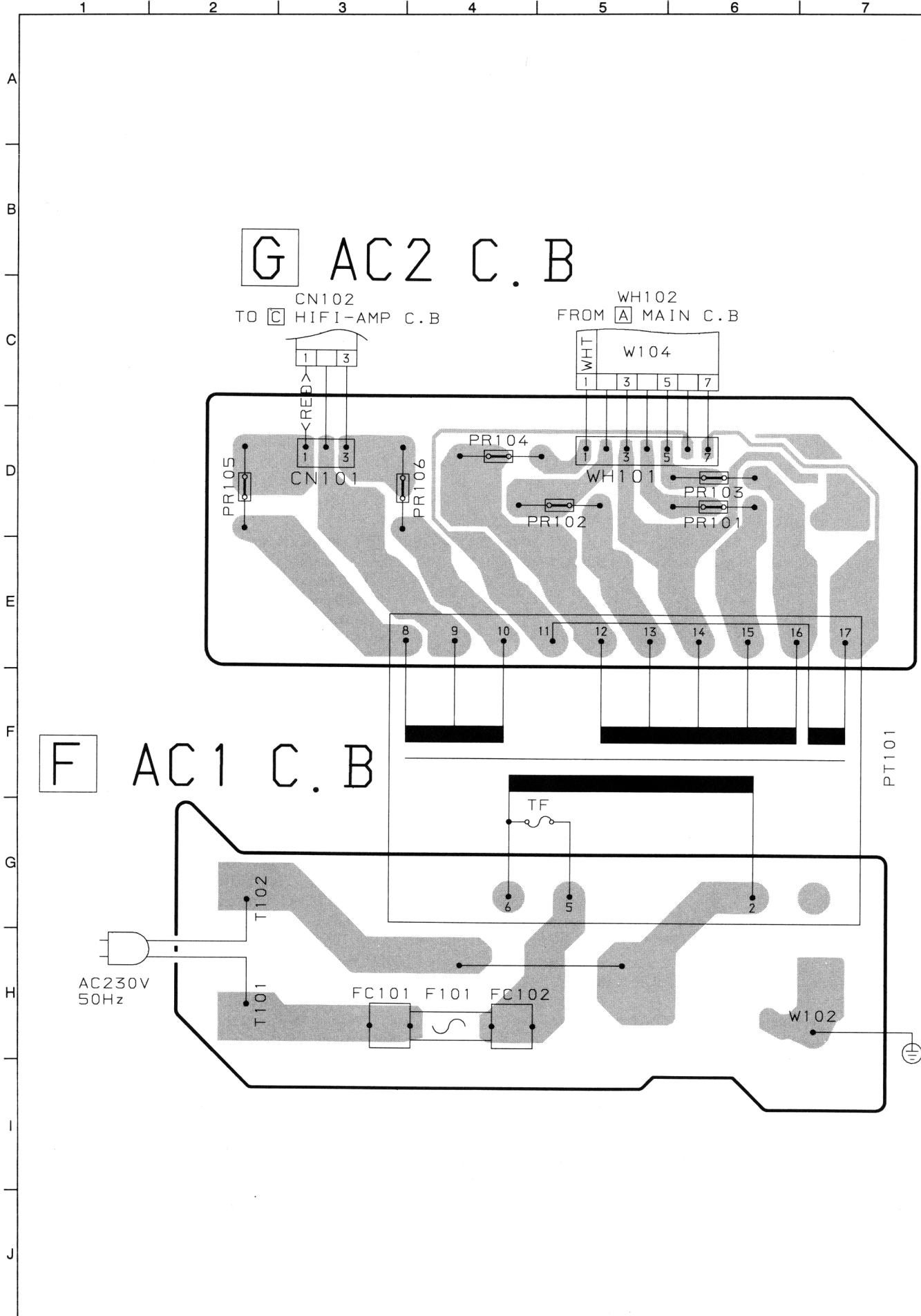
WIRING – 5 (KEY / DIAL)



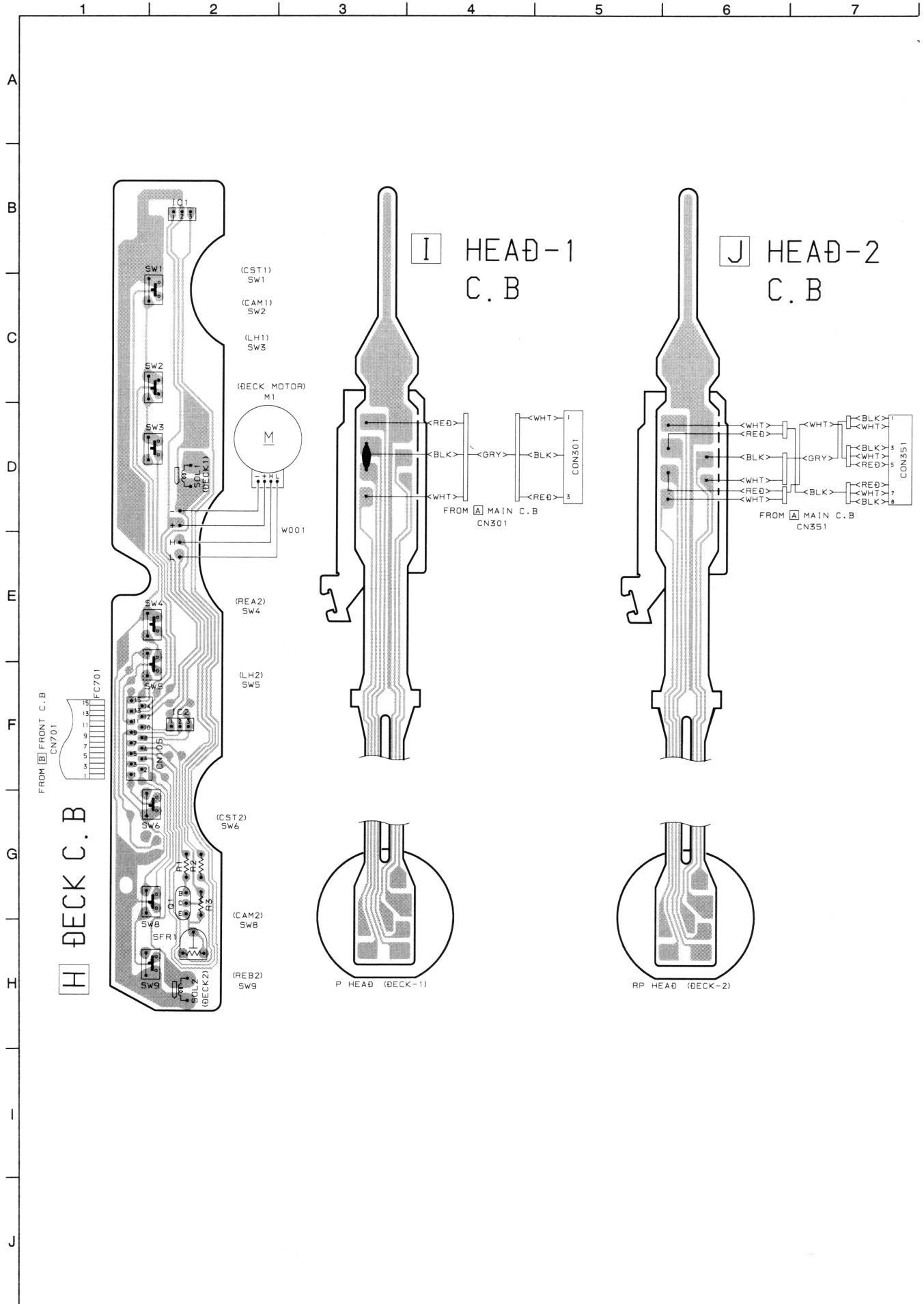
E DIAL C.B



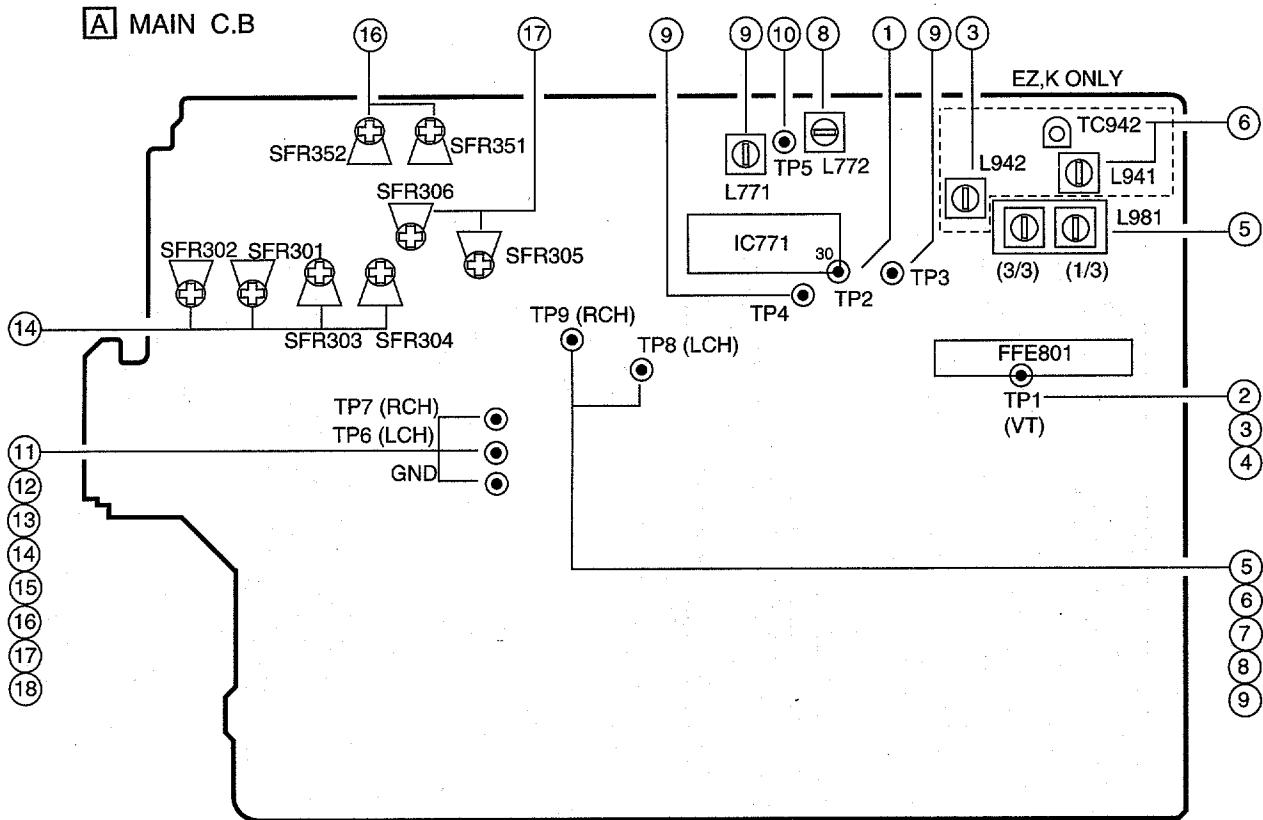
WIRING – 6 (AC)



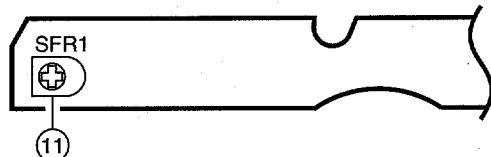
WIRING – 7 (DECK)



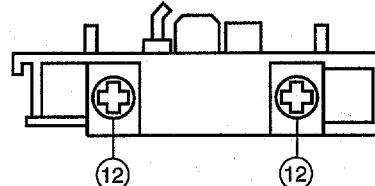
ADJUSTMENT < TUNER / DECK >



H 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 1602kHz, and check that the test point is $2052\text{kHz} \pm 45\text{Hz}$.

2. AM (MW) VT Check

Settings : • Test point : TP1 (VT)

Method : Set to AM (MW) 1602kHz and check that the test point is less than 8.0V and more than 0.6V (531kHz).

3. LW VT Adjustment <EZ,K>

Settings : • Test point : TP1 (VT)

• Adjustment location : L942

Method : Set to LW 144kHz and adjust L942 so that the test point becomes $1.3\text{V} \pm 0.05\text{V}$. Then check that the test point is less than 8.0V (290kHz).

4a. FM VT Check<EZ,K>

Settings : • Test point : TP1 (VT)

Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

4b. FM VT Check<V>

Settings : • Test point : TP1 (VT)

Method : Set to FM 65.0MHz, 108.0MHz and check that the test point is more than 1.0V (65.0MHz) and less than 9.5V (108.0MHz).

5. AM (MW) Tracking Adjustment

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

• Adjustment location :
L981 (1/3) 999kHz

Method : Set to AM 999kHz and adjust L981(1/3) to MAX.

6. LW Tracking Adjustment <EZ,K>

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

• Adjustment location :
L941 144kHz
TC942 290kHz

Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to maximum by L941. Then the level at 290kHz is adjust to maximum by TC942.

7. 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 6dB (V) and less than 10dB (EZ,K).

8. AM IF Adjustment

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

- Adjustment location :
L772 450kHz

9. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4 (DC Balance)

: TP8(Lch), TP9(Rch) (Distortion)

- 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%.

10. Auto Stop Level Check

MW

- Input level : 52dB
- Test point : TP5

Method : Check auto stop at MW 999kHz and the level is $52 +10dB / -15dB$.

FM

- Input level : 25dB
- Test point : TP5

Method : Check auto stop at FM 98.0MHz and the level is $25 dB \pm 10 dB$.

< DECK SECTION >

11. 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 $3000Hz \pm 5Hz$.

12. 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.

13. 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.

14. PB Sensitivity Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-200

- Test point : TP6(Lch), TP7(Rch)
- Adjustment location : SFR301 (DECK 1, Lch)
SFR302 (DECK 1, Rch)
SFR303 (DECK 2, Lch)
SFR304 (DECK 2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes $245mV \pm 10mV$.

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

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.

16. REC/PB Frequency Response Check (DECK 2)

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 $0dB \pm 2dB$.

17. REC/PB Sensitivity Adjustment (DECK 2)

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 TP8, TP9 becomes 170mV. Record and play back the 1kHz signals and adjust SFRs so that the output becomes $0dB \pm 0.5dB$ with respect to that of the 1kHz signal.

18. REC/PB Sensitivity Check (DECK 2)

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 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 11/10 / 10dB (EZ,K) (THD 3%)
	Less than 10 / 9 / 9 / 9dB (V) (at 87.5 / 98.0 / 108.0MHz)
	Less than 10 / 9 / 9 / 9dB (V) (at 87.5 / 98.0 / 108.0 / 70.0MHz)
S/N 50dB Quieting sensitivity :	
	Less than 35dB (V) (at 98.0MHz)
	Less than 38dB (EZ) (at 98.0 MHz)
Signal to noise ratio :	Mono : More than 72dB Stereo : More than 66dB (at 98.0 MHz)
Distortion :	Mono : Less than 1.2% Stereo : Less than 2% (at 98.0MHz)
Auto stop level :	25dB ± 10dB (at 98.0 MHz)
Stereo separation :	V : More than 30dB (at 98.0MHz) EZ : More than 12 dB (at 98.0 MHz)
Intermediate frequency :	10.7MHz

<LW SECTION> (EZ,K)

Sensitivity :	Less than 70 / 68 / 66dB (at 144 / 198 / 290kHz)
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<MW SECTION>

Sensitivity :	Less than 60 / 58 / 58dB (at 603 / 999 / 1404kHz)
Signal to noise ratio :	More than 36dB (at 999kHz)
Distortion :	Less than 1.5%
Auto stop level :	52dB +10 dB / -15dB (at 999kHz)
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Take-up torque :	30 ~ 55g·cm (FWD, REV)
FF torque :	75 ~ 180g·cm
REW torque :	75 ~ 130g·cm
Back tension :	2 ~ 7g·cm (FWD, REV)
PB output level :	300mV± 3dB (SPOUT)
REC/PB output level :	-3.0 ± 1dB (NORM) -3.5dB ± 1dB (CrO ₂)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO ₂)
Noise level (PB) :	Less than 3.0mV (NORM, SP OUT)
Noise level (REC/PB) :	Less than 4.5mV (NORM, SP OUT)
Erasing ratio :	More than 60dB (at 125Hz, +10VU)
Test tape :	TTA-602 (NORMAL) TTA-615 (CrO ₂)

IC DESCRIPTION

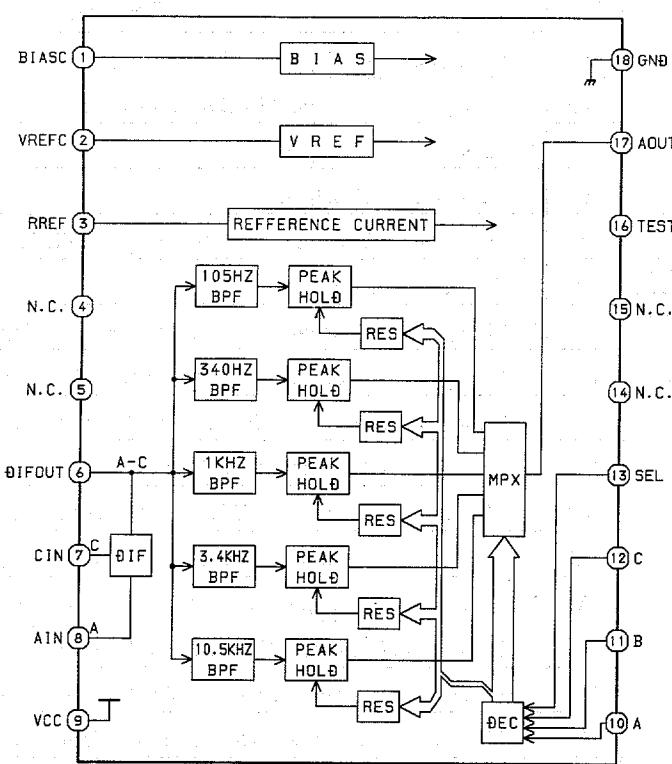
IC, LC866560W-5H39

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 (M)	O	Latch strobe output for MAIN PWB.
4	O-PLL CE	O	PLL IC chip enable.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RESET (GAME)	O	Reset output for Sound IC.
7	STB (GAME)	O	Latch strobe output for Sound IC.
8	I-NAR (GAME)	I	Sound IC NAR input.
9	O-DSC (3 STATE)	O	Serial data output for PROLOGIC PWB. (Not connected)
10	RT A	I	Main volume rotary encoder input A.
11	RT B	I	Main volume rotary encoder input B.
12	RESET	I	Reset input.
13	JOG A	I	Dial jog rotary encoder input A.
14	JOG B	I	Dial jog rotary encoder input B.
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 "L" to stop clock and main memory."H" normal operation.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CDSW	I	CD mechanical switch A/D converter input.
24	I-DISH	I	CD turntable sensor input.
25	I-RDS SIG/MS	I	RDS signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	K-SCAN	O	Key scan output (active low).
28	RDS-CLK	I	Tuner RDS clock input.
29	I-RMC	I	System remote control signal input.
30 ~ 41	G13 ~ G2	O	FL GRID output G2~G13.
42, 43	P38 ~ P39	O	FL SEGMENT output P39, P38.
44	G1	O	FL GRID output G1.
45	P37	O	FL SEGMENT output P37.
46	VDD3	-	Power supply input.
47	SPEANA-A/P36	O	Spectrum analyzer band switching output /FL segment P36 output.
48	SPEANA-B/P35	O	Spectrum analyzer band switching output /FL segment P35 output.
49	SPEANA-C/P34	O	Spectrum analyzer band switching output /FL segment P34 output.
50	P33/GAME	O	FL segment P33 output / GAME key input.
51	VP	-	Power supply input for FL display.
52	P32/AM-ST	O	FL segment P32 output.
53	P31/LW	I/O	FL segment P31 output / LW input to diode.
54	P30/SW	O	FL segment P30 output.

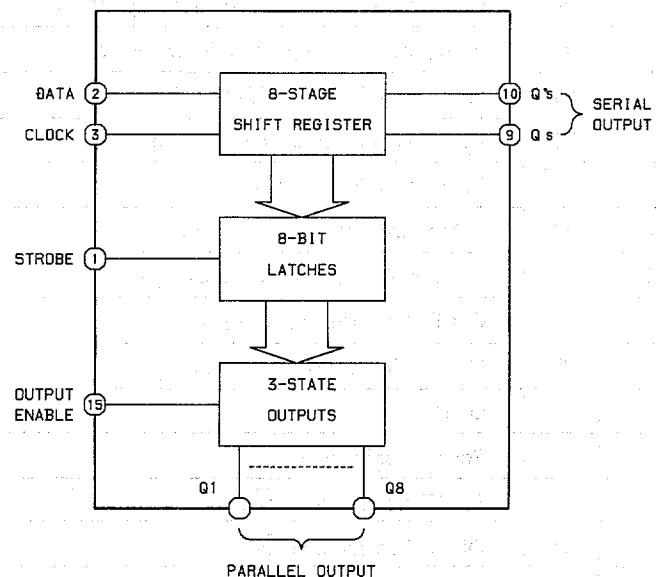
Pin No.	Pin Name	I/O	Description
55	P29/FM 1	I/O	FL segment P29 output / FM1 (OIRT) input to diode.
56	P28/RDS	I/O	FL segment P28 output / RDS input to diode.
57	P27/D-SURR	O	FL segment P27 output.
58	P26/K-CON	O	FL segment P26 output.
59	P25/AM10K	I/O	FL segment P25 output / AM 10kHz input to diode.
60	P24/AC-3 SURR	O	FL segment P24 output.
61	P23/I-HP MUTE	I/O	FL segment P23 output / Headphone insert detect input (active low)
62	P22/I-TM BASE	I/O	FL segment P22 output / Time-base clock (8Hz) input.
63	P21/REA	I/O	FL segment P21 output / DECK2 side A record OK switch data input.
64	P20/CST 1	I/O	FL segment P20 output / DECK1 cassette detect switch data input.
65	P19/CAM 1	I/O	FL segment P19 output / DECK1 CAM switch data input.
66	P18/AUTO 2	I/O	FL segment P18 output / DECK2 AUTO stop signal input.
67	P17/AUTO 1	I/O	FL segment P17 output / DECK1 AUTO stop signal input.
68	P16/CAM 2	I/O	FL segment P16 output / DECK2 CAM switch data input.
69	P15/REB	I/O	FL segment P15 output / DECK2 side-B record OK switch data input.
70	P14/CST 2	I/O	FL segment P14 output / DECK2 cassette detect switch data input.
71	P13/I-MIC	I/O	FL segment P13 output / For AUTO VF use, Mic input detect.
72	VDD 4	-	Power supply input.
73	P12/ECHO	I/O	FL segment P12 output / ECHO key detect.
74	P11/HALL	I/O	FL segment P11 output / HALL key detect.
75	P10/MOVIE	I/O	FL segment P10 output / MOVIE key detect.
76	P9/LIVE	I/O	FL segment P9 output / LIVE key detect.
77	P8/DISCO	I/O	FL segment P8 output / DISCO key detect.
78	P7/MIC	I/O	FL segment P7 output / MIC key detect.
79 ~ 84	P6 ~ P1	O	FL segment P1 ~ P6 output.
85	O-DISH REV	O	CD turntable reverse rotation output.
86	O-DISH FWD	O	CD turntable forward rotation output.
87	O-OPEN	O	CD TRAY OPEN data output.
88	O-CLOSE	O	CD TRAY CLOSE data output.
89	VSS2	-	GND.
90	VDD2	-	Power supply input.
91	SOL 1	O	DECK 1 solenoid output.
92	SOL 2	O	DECK 2 solenoid output.
93	O-MOTOR	O	DECK MOTOR ON/OFF output.
94	O-POWER	O	System power supply ON/OFF output.
95	TU,I-IFC/I-STATUS	I	Tune IF count serial data input /Tune input/CD STATUS data input.
96	I-STEREO/SCLK	I/O	Tuner stereo detected input / CD serial clock output.
97	I-RDS-DATA/ O-COMMAND	I/O	RDS data input/CD command output.
98	X-BUSY	I/O	CD I/O busy line.
99	O-MUTE	O	System mute ON/OFF output.
100	GE-LATCH	O	GEQ IC M62431FP latch.

IC BLOCK DIAGRAM – 2

IC, BA3835S



IC, BU4094BCF



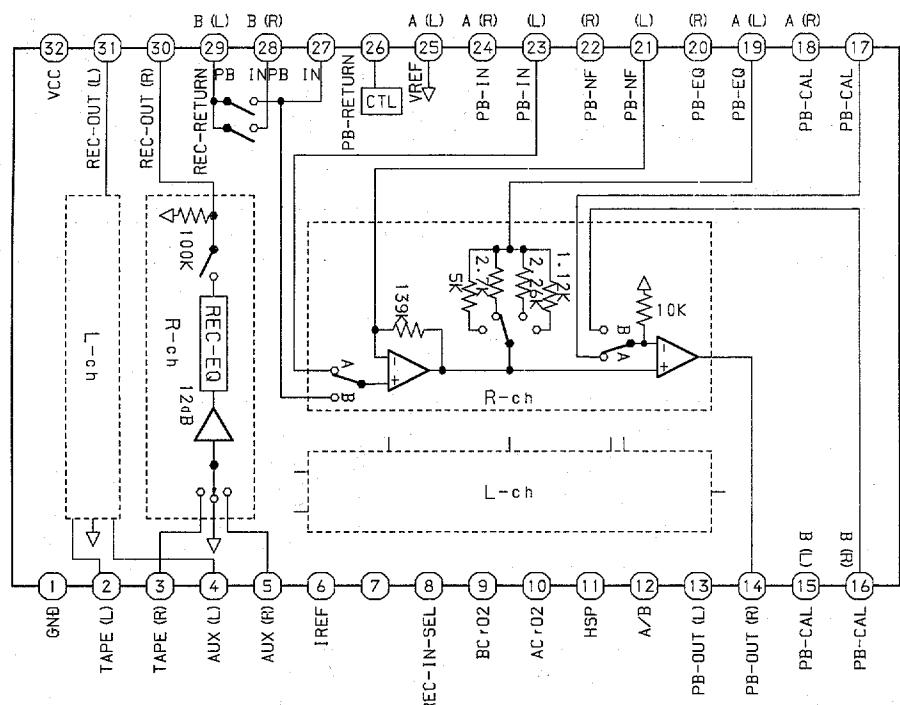
TRUTH TABLE

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

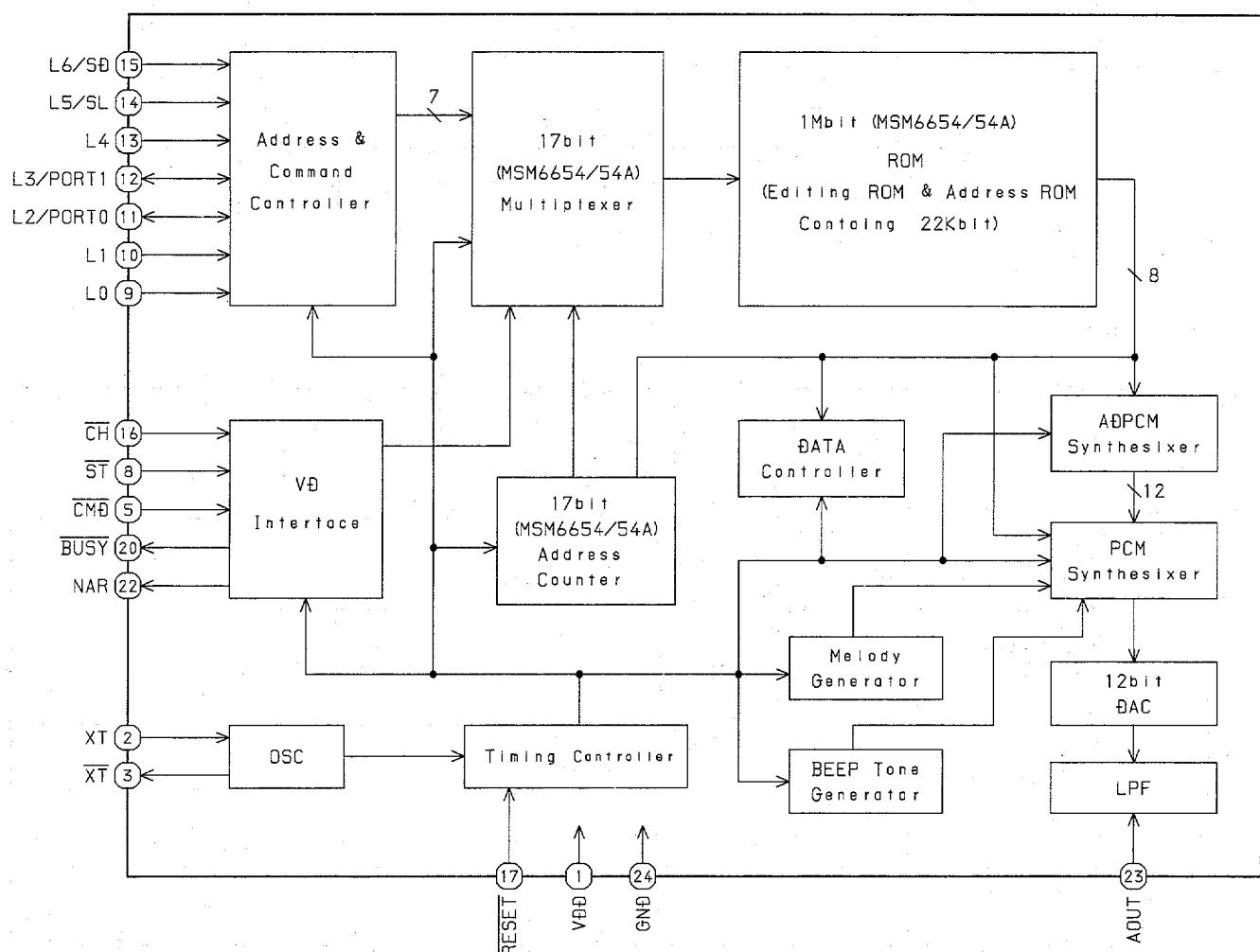
Z=High Impedance

X=Don't Care

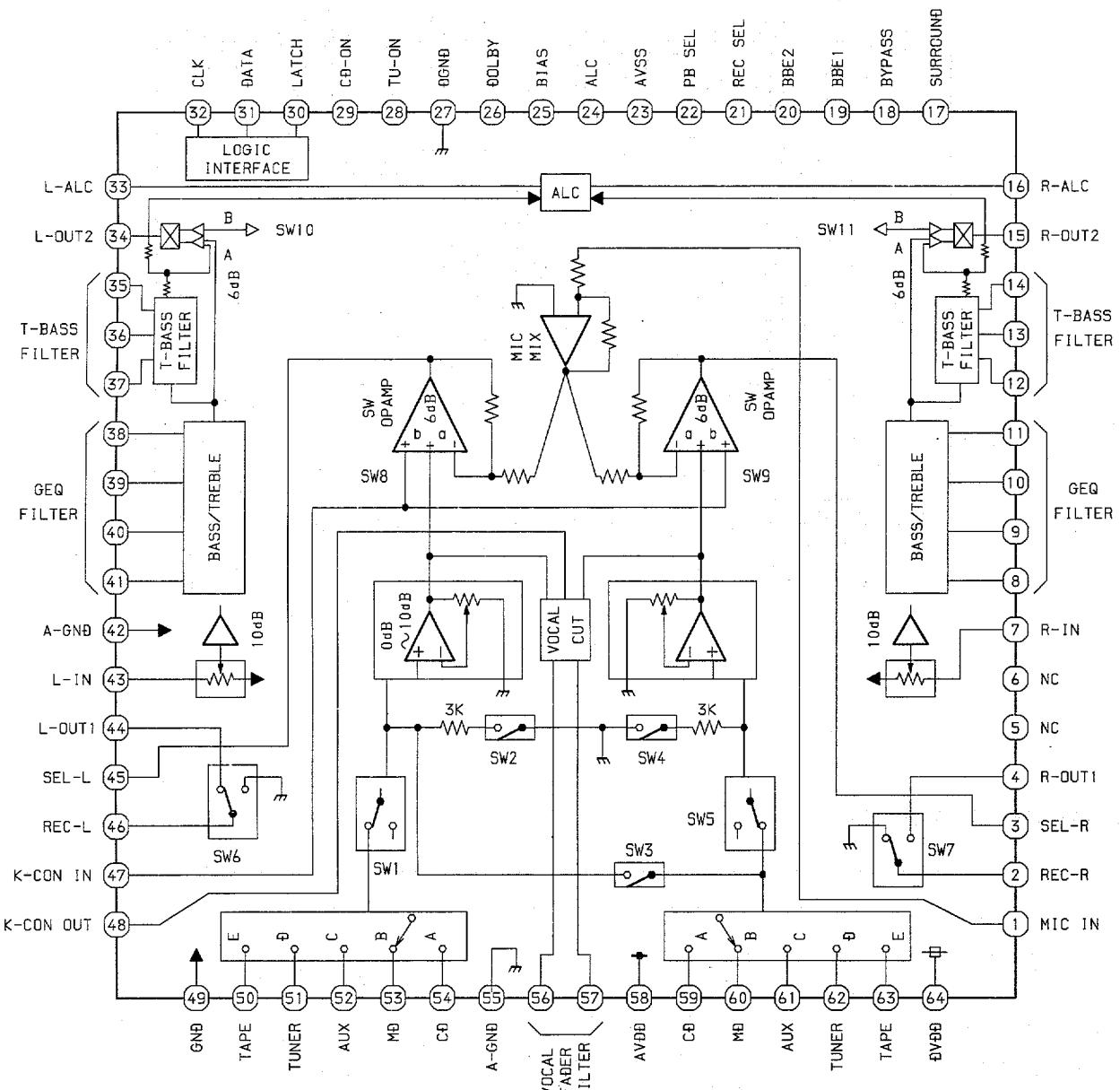
C-IC, BA7762AFS



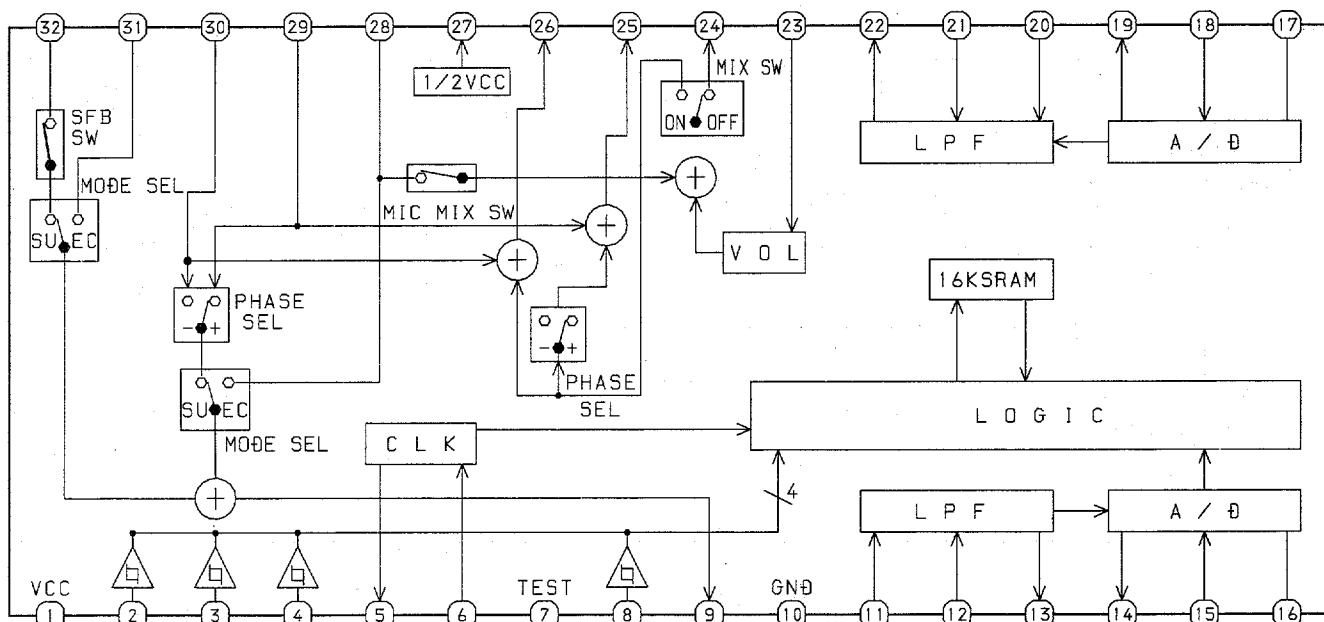
C-IC, MSM6654A-5219S-KR1

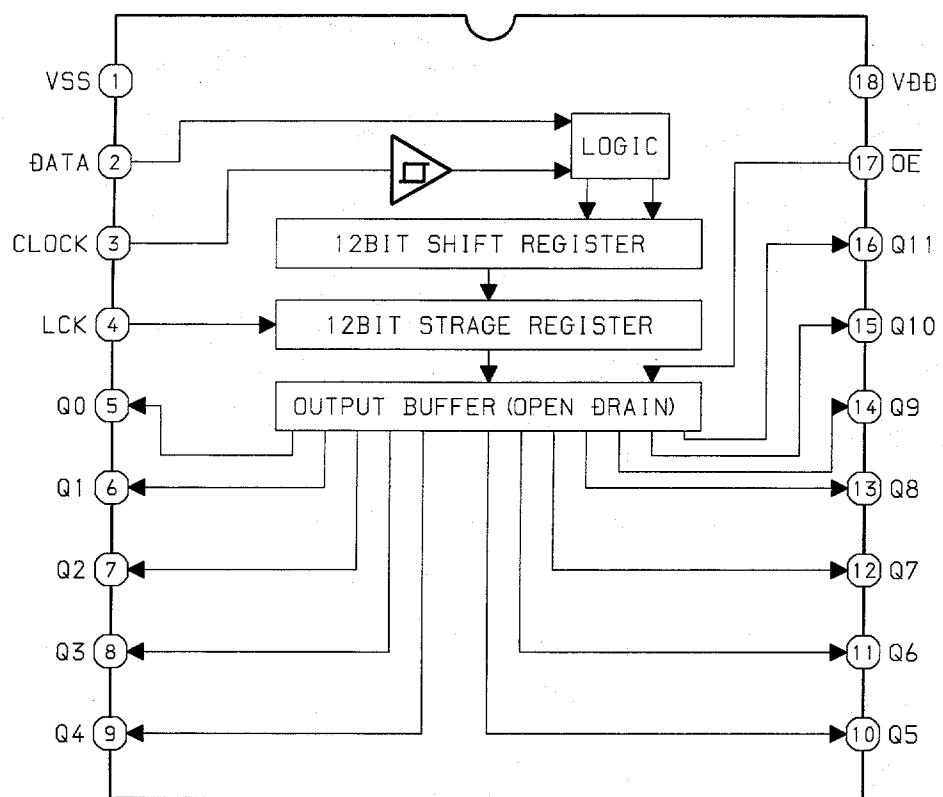


C-IC, M62445FP-601

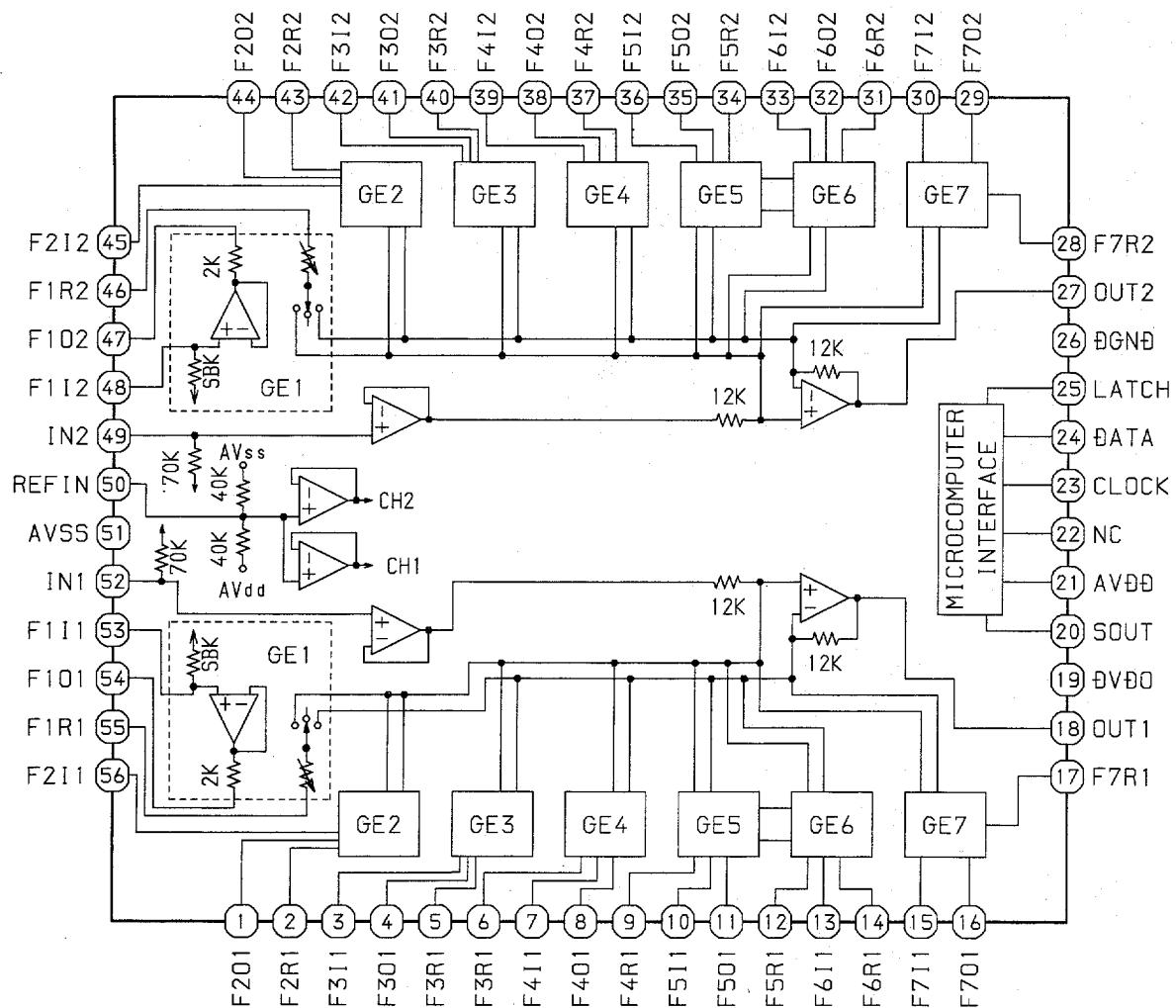


C-IC, M65849BFP

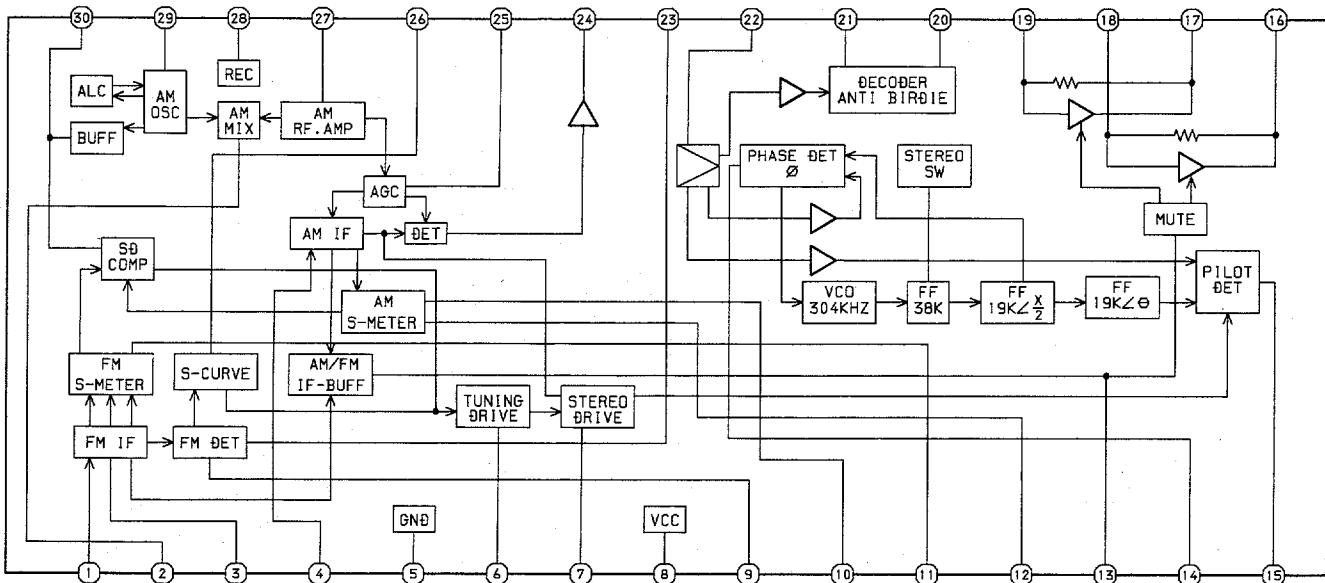




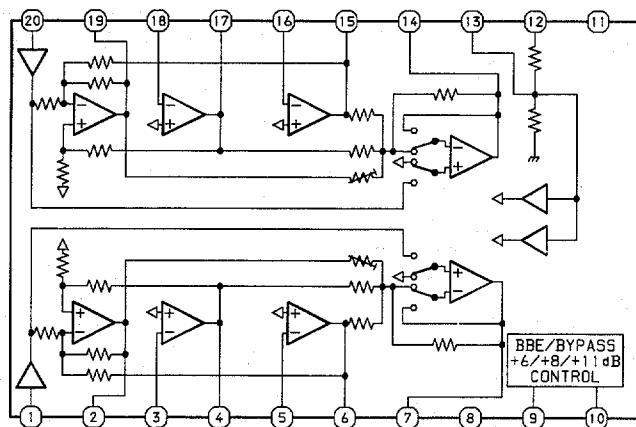
C-IC, M62431FP

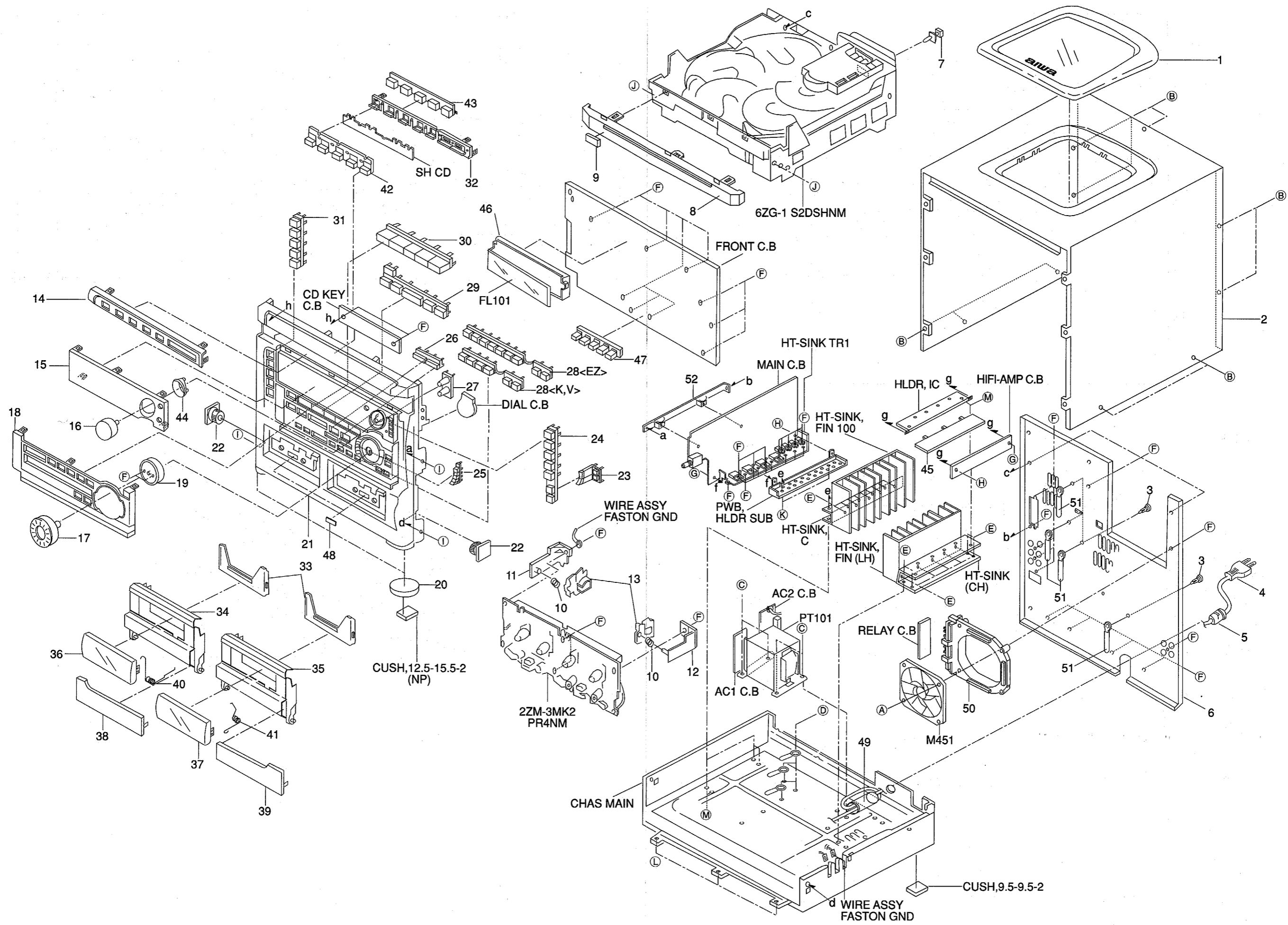


IC, LA1837NL



C-IC, NJM2152M



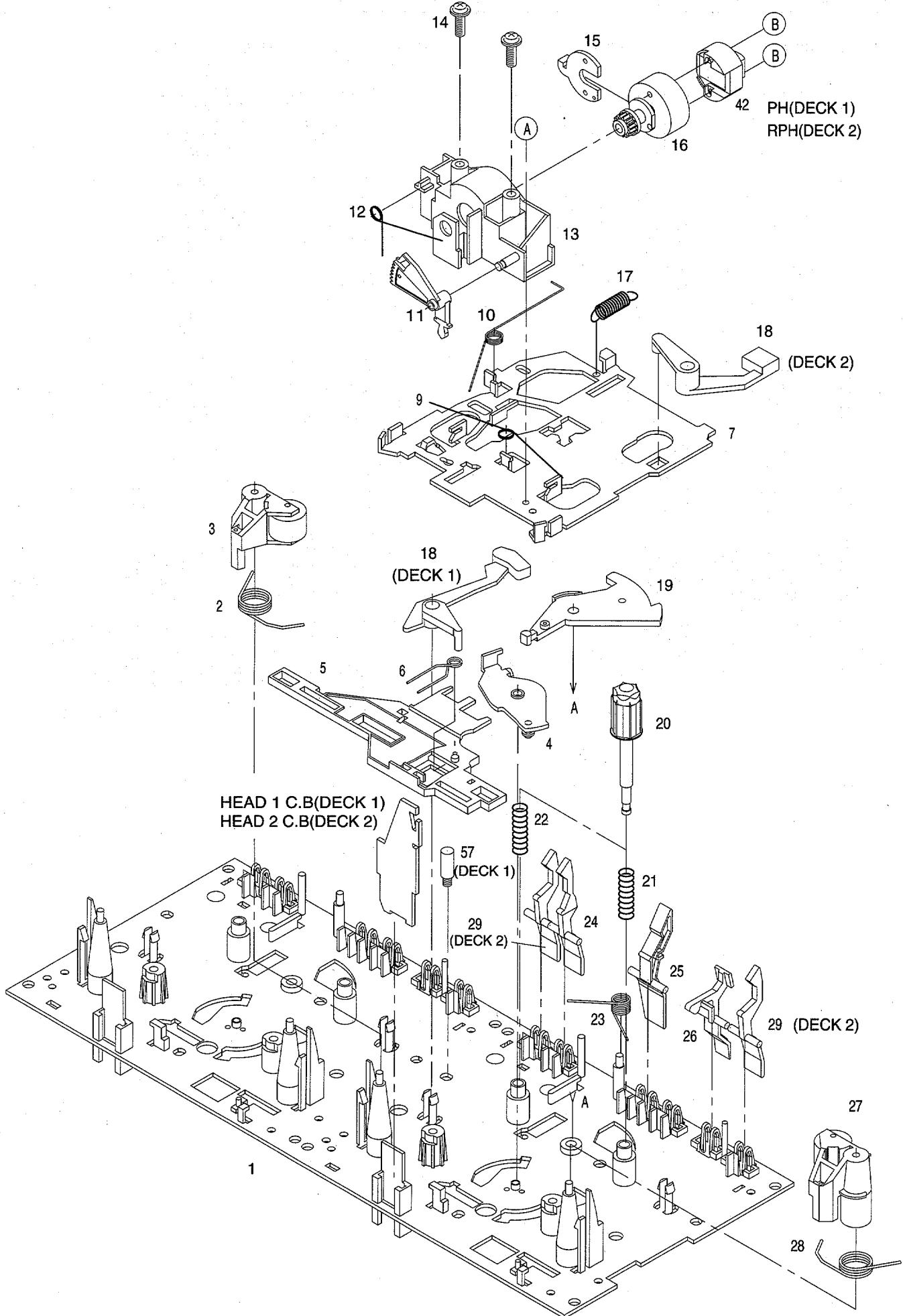


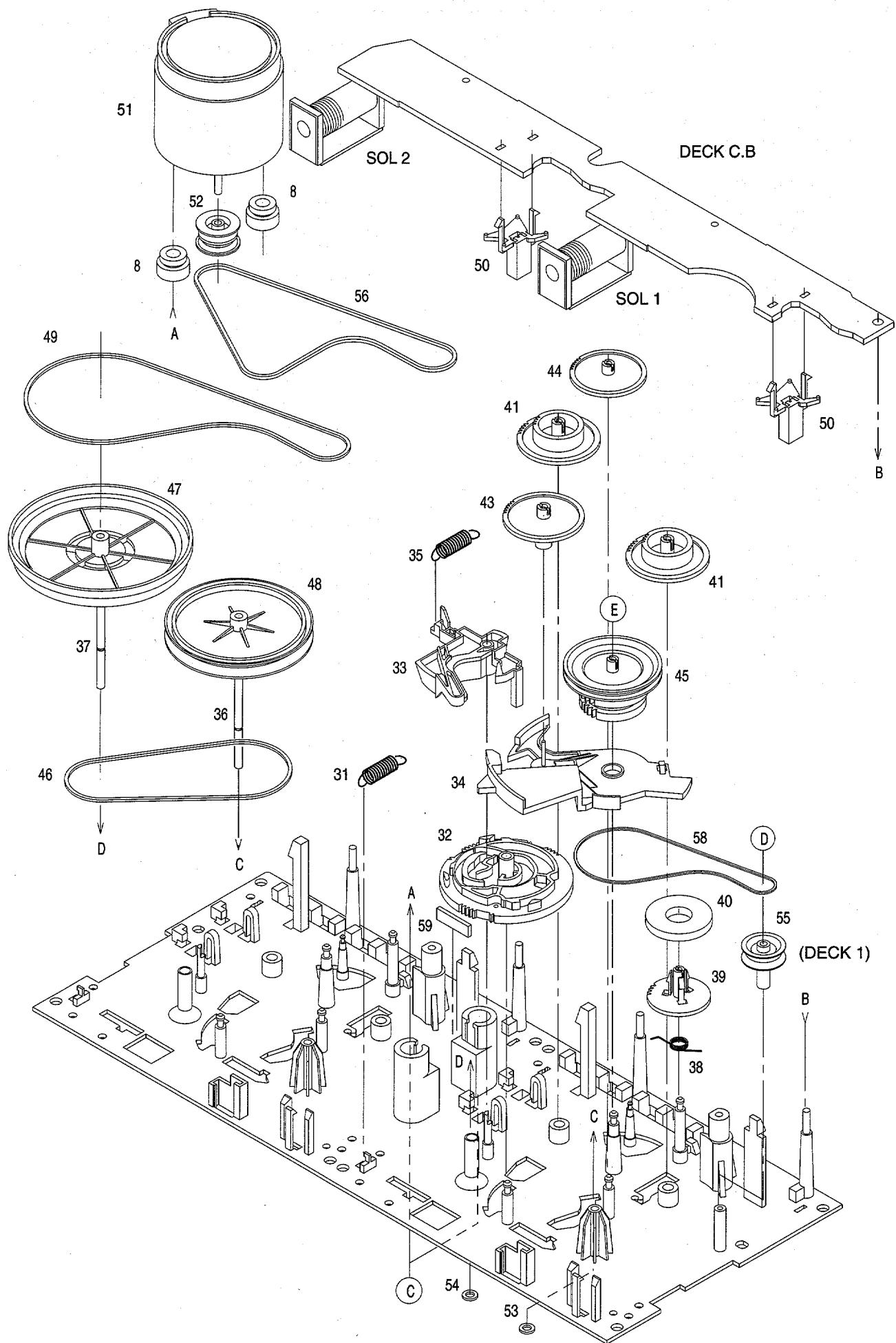
MECHANICAL PARTS LIST 1 / 1

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	86-MA3-042-010		WINDOW, TOP	30	88-NF3-067-210		KEY, FUN ASSY
2	86-NFW-014-010		CABI, STEEL	31	88-NF3-062-010		KEY, GEQ
3	87-084-077-010		NYLON RIVET, 3.5-4.5	32	88-NF3-060-010		KEY, CD
▲ 4	87-A80-059-010		AC-CORD ASSY, K 3P (5A)<K>	33	86-NF6-061-010		REFLECTOR, CASS
▲ 4	87-050-079-010		AC-CORD ASSY, E BLK<EZ, V>	34	88-NF3-030-210		BOX, CASS L
5	87-085-185-010		BUSHING, AC CORD (E) CM-22B	35	88-NF3-031-210		BOX, CASS R
6	88-NF3-012-110		PANEL, REAR EZSTNM<EZ>	36	88-NF3-052-010		WINDOW, CASS L
6	88-NF3-015-110		PANEL, REAR KSTNM<K>	37	88-NF3-053-010		WINDOW, CASS R
6	88-NF3-017-110		PANEL, REAR VSTNM<V>	38	88-NF3-042-010		PANEL, CASS L
7	84-ZG1-245-210		CAP, OPTICAL	39	88-NF3-043-010		PANEL, CASS R
8	88-NF3-040-010		PANEL, TRAY	40	82-NF5-218-010		SPR-T, EJECT 1 (SIN)
9	82-NE6-067-010		BADGE, AIWA 30N	41	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
10	86-NF9-224-010		SPR-C, LOCK	42	88-NF3-061-110		REFLECTOR, CD
11	87-NF4-216-010		HLDR, LOCK 1	43	88-NF3-203-010		GUIDE, LED CD
12	87-NF4-217-010		HLDR, LOCK 2	44	88-NF3-065-010		RING, MAIN
13	82-NF5-229-010		PLATE, LOCK	45	88-NF3-216-010		GUIDE, IC(H)
14	88-NF3-050-010		WINDOW, CD	46	88-NF3-206-010		GUIDE, FL
15	88-NF3-054-010		WINDOW, DISP RDS<EZ>	47	88-NF3-205-010		GUIDE, LED PLAY
15	88-NF3-057-010		WINDOW, DISP K<K, V>	48	81-532-080-010		LBL, CASS-COMPT
16	88-NF3-064-010		KNOB, RTRY MAIN	49	87-A90-562-010		F BEAD 9.5-17.5-28.5-BRH<EZ, K>
17	88-NF3-083-010		KNOB, RTRY JOG	50	86-NFW-202-110		HLDR, FAN
18	88-NF3-047-010		PANEL, FR RDS<EZ>	51	87-064-185-010		HLDR, WIRE
18	88-NF3-041-010		PANEL, FR<K, V>	52	86-NFW-203-110		HLDR, PWB
19	88-NF3-091-110		RING, JOG ASSY	A	87-067-873-010		BVT2+3-25 W/O SLOT
20	88-NF3-090-010		RING, FOOT	B	87-067-641-010		UTT2+3-8 (W/O SLOT) BLK
21	88-NF3-004-210		CABI, FR U	C	87-067-975-010		S-SCREW, IT+4-8
22	87-NF8-220-010		DMPR, 150	D	87-067-688-010		BVTT+3-6
23	88-NF3-081-110		KEY, ENTER	E	87-067-758-010		BVT2+3-12 W/O SLOT
24	88-NF3-063-110		KEY, DSP	F	87-067-703-010		TAPPING SCREW, BVT2+3-10 W/O SLOT
25	88-NF3-080-210		KEY, JOG	G	87-067-689-010		TAPPING SCREW, BVTT+3-8
26	88-NF3-086-210		KEY, DUBB	H	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
27	88-NF3-066-010		KEY, MIC	I	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
28	88-NF3-088-110		KEY, KARAOKE RDS<EZ>	J	87-721-097-410		QT2+3-12 W/O SLOT
28	88-NF3-082-110		KEY, KARAOKE<V, K>	K	87-067-584-010		TAPPING SCREW, BVT2+3-6
29	88-NF3-073-210		KEY, PLAY ASSY	L	87-067-673-010		TAPPING SCREW, BUTT+3-8 (B)
				M	87-067-690-010		TAPPING SCREW, BV1T3B+3-10

TAPE MECHANISM EXPLODED VIEW 1 / 1



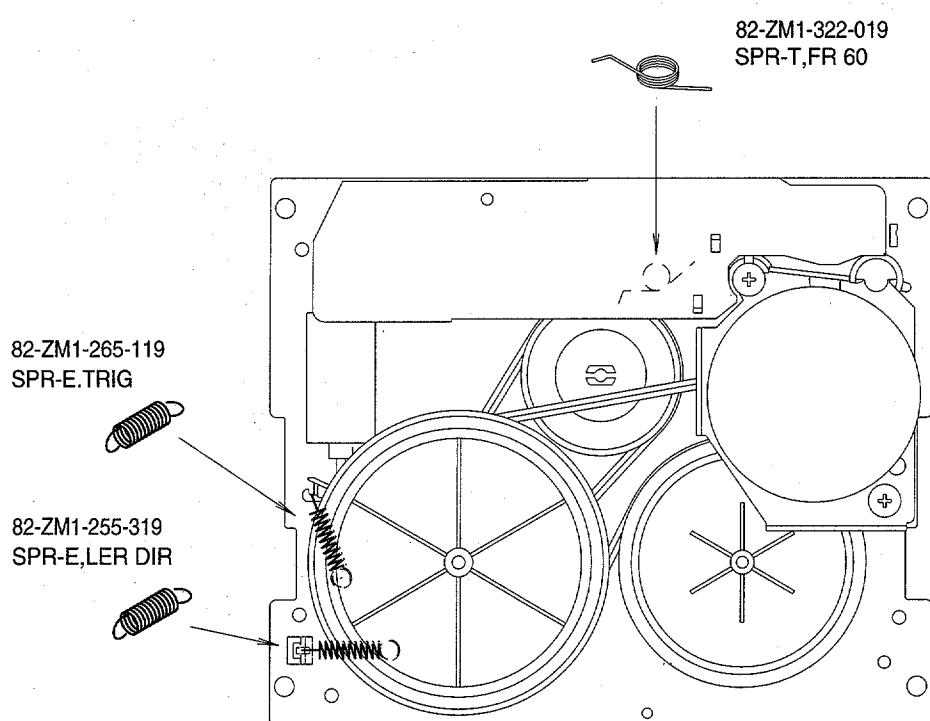
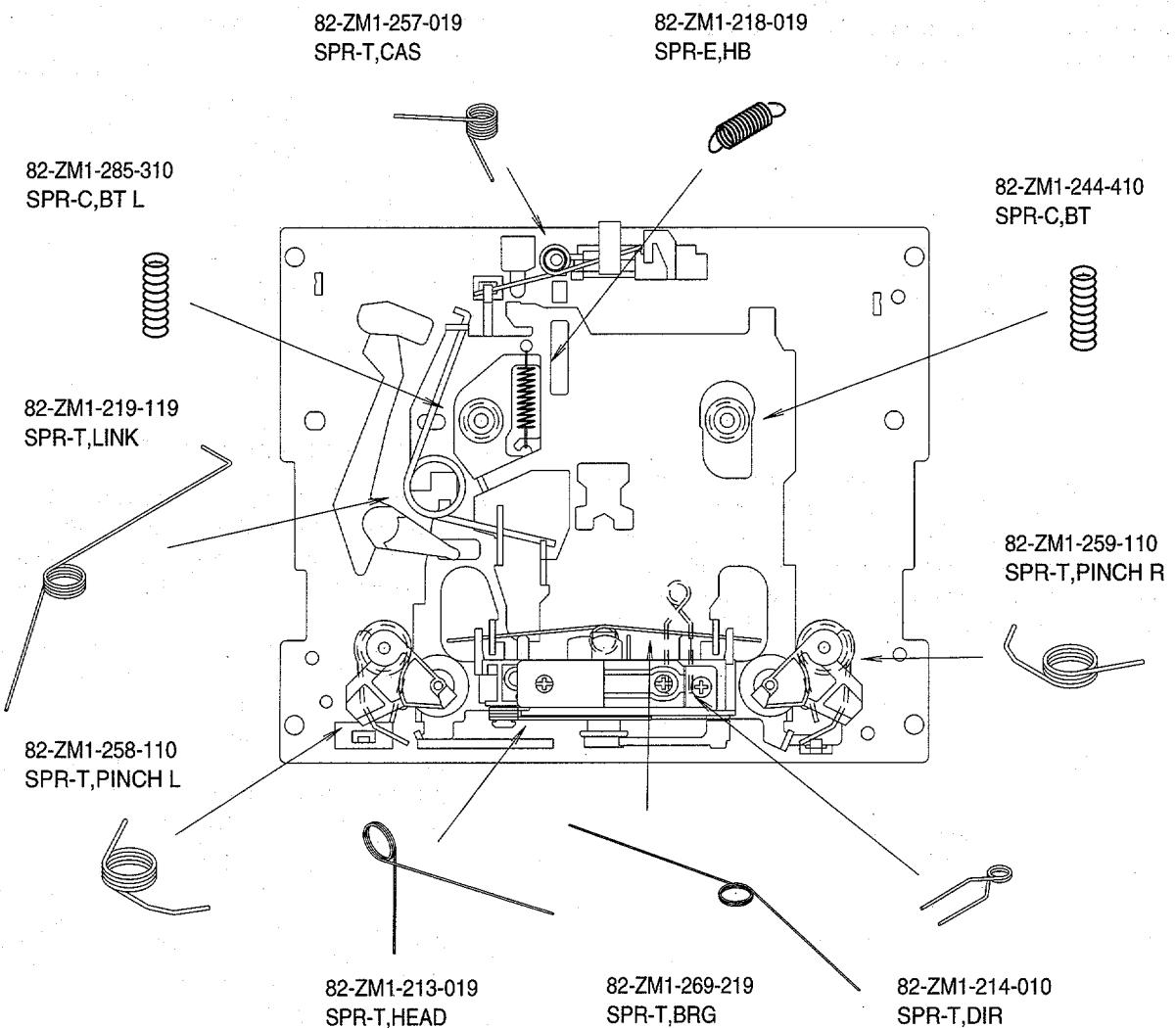


TAPE MECHANISM PARTS LIST 1 / 1

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	1H	CHAS ASSY,M2	36	82-ZM1-236-019	OE	CAPSTAN N 2-41.5
2	82-ZM1-258-110	OE	SPR-T, PINCH L	37	82-ZM1-239-019	OE	CAPSTAN N 2.2-41.7
3	82-ZM1-341-110	1A	LVR ASSY, PINCH L2	38	82-ZM1-322-019	OE	SPR-T, FR60
4	82-ZM1-333-010	OE	PLATE, LINK 2	39	82-ZM1-220-219	OE	GEAR, IDLER
5	82-ZM1-266-11K	OE	LVR, DIR	40	82-ZM3-616-019	OE	RING MAGNET 4
6	82-ZM1-214-010	OE	SPR-T, DIR	41	82-ZM1-216-31K	OE	GEAR, REEL
7	82-ZM1-206-81K	1A	CHAS, HEAD	42	87-A90-319-010	1D	HEAD, PH HADKH2 FPC
8	82-ZM3-307-019	OE	CUSH-G, DIA3.7-8-3.2	42	87-A90-320-010	1F	HEAD, RPH HADKH5 FPC
9	82-ZM1-269-219	OE	SPR-T, BRG	43	82-ZM1-225-21K	OE	GEAR, FR
10	82-ZM1-219-119	OE	SPR-T, LINK	44	82-ZM1-226-019	OE	GEAR, REW
11	82-ZM1-210-119	OE	GEAR, H T	45	82-ZM3-333-310	1B	SLIP DISK ASSY 2
12	82-ZM1-213-019	OE	SPR-T, HEAD	46	82-ZM1-338-010	OE	BELT FR4
13	82-ZM1-207-619	OE	GUIDE, TAPE	47	82-ZM1-349-110	1A	FLY-WHL, R W(DECK 2)
14	86-ZM4-206-010	OE	S-SCREW, AZIMUTH	47	82-ZM3-338-110	1A	FLY-WHL, R3 W(DECK 1)
15	82-ZM1-314-119	OE	PLATE, HEAD	48	82-ZM1-348-010	1A	FLY-WHL, L W(DECK 2)
16	82-ZM1-208-119	OE	HLDL, HEAD	48	82-ZM1-348-010	1A	FLY-WHL, L W(DECK 1)
17	82-ZM1-218-019	OE	SPR-E, HB	49	82-ZM3-329-210	OE	BELT, SBU R2
18	82-ZM1-263-110	OE	LVR, EJECT L (DECK 1)	50	82-ZM1-245-210	OE	HLDL, IC
18	82-ZM1-264-010	OE	LVR, EJECT R (DECK 2)	51	87-045-347-019	1H	MOT, SHU2L 70(M1)
19	82-ZM1-222-21K	OE	LVR, PLAY	52	82-ZM3-221-010	OE	PULLEY, MOT 2M
20	82-ZM1-217-319	OE	REEL TABLE	53	82-ZM1-288-019	OE	SH, 1.63-3.2-0.5 SLT
21	82-ZM1-244-510	OE	SPR-C, BT	54	80-ZM6-243-019	OE	SH, 1.75-3.6-0.5 SLT
22	82-ZM1-285-310	OE	SPR-C, BT L	55	82-ZM3-335-210	OE	PULLEY, COUPLER M3(DECK 1)
23	82-ZM1-257-019	OE	SPR-T, CAS	56	82-ZM3-337-010	OE	BELT, SBU MOT 2
24	82-ZM1-241-319	OE	LVR, MC	57	82-ZM3-339-010	OE	SHAFT, COUPLER N3(DECK 1)
25	82-ZM1-242-019	OE	LVR, CAS	58	86-ZM1-206-010	OE	BELT, MAIN L
26	82-ZM1-243-019	OE	LVR, STOP	59	82-ZM3-340-010	OE	SH, BELT D2
27	82-ZM1-344-110	1A	LVR ASSY, PINCH R2	A	85-ZM3-202-010	OE	S-SCREW, TG
28	82-ZM1-259-110	OE	SPR-T, PINCH R	B	80-ZM6-207-019	OE	V+1.6-7
29	82-ZM1-240-11K	OE	LVR, REC (DECK 2)	C	82-ZM3-318-019	OE	S-SCRW MOTOR M2
31	82-ZM1-255-319	OE	SPR-E, LVR DIR	D	87-B10-043-010	OE	W-P, 0.99-4-0.25 SLT
32	82-ZM3-305-01K	OE	GEAR, CAM M2	E	82-ZM3-334-010	OE	PW, 2.16-6-0.4
33	82-ZM1-227-21K	OE	LVR, TRIG				
34	82-ZM3-306-11K	OE	LVR, FR M2				
35	82-ZM1-265-119	OE	SPR-E, TRIG				

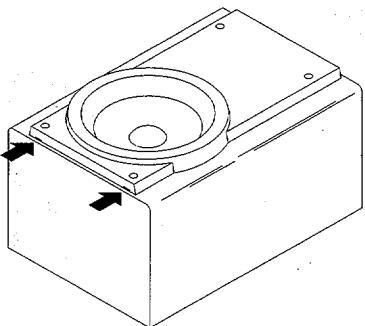
SPRING APPLICATION POSITION



SPEAKER DISASSEMBLY INSTRUCTIONS

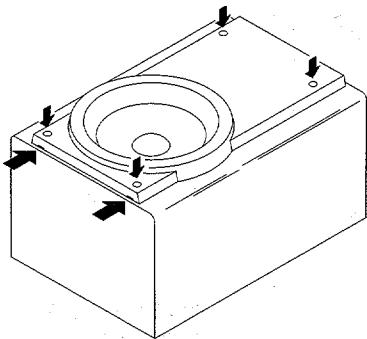
Type.1

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.



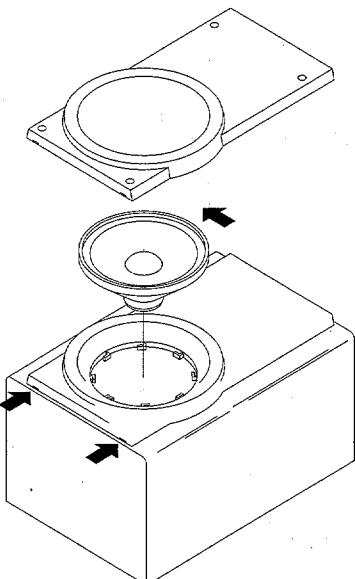
Type.2

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. Insert a flat-bladed screwdriver into the position indicated by the



Type.3

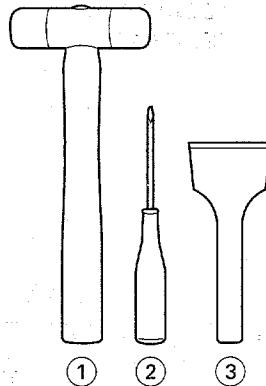
arrows and remove the panel. Turn the speaker unit to counterclockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes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

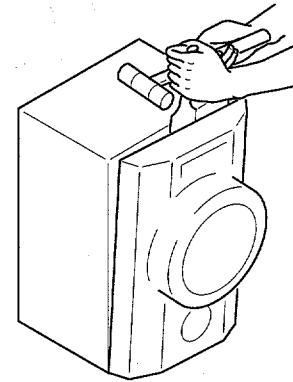
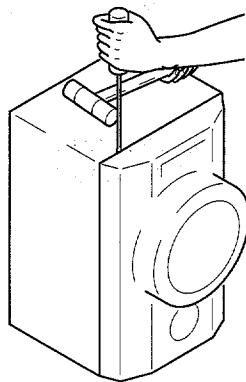


Fig-1

Fig-2

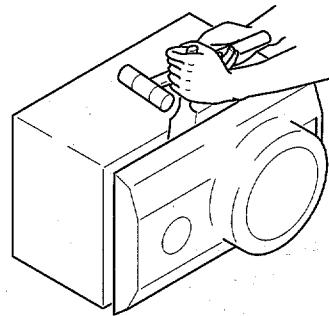


Fig-3

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-WNF958 <YSTNL>)

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

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	88-NS5-611-010		CORD, SPKR B/L
3	88-NS0-006-010		GRILLE, FRAME ASSY A
4	88-NS0-005-010		PANEL, COVER
5	88-NS0-001-010		PANEL, FR
6	88-NS0-003-010		PANEL, TW L
7	88-NS0-002-010		PANEL, TW R
8	88-NS5-604-010		SPKR, M 120
9	88-NS5-605-010		SPKR, T 60
10	88-NS3-602-010		SPKR, W 200

SPEAKER PARTS LIST (SX-WNF959 <YJSTNL>)

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

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS3-001-010		PANEL, FR
2	88-NS3-002-010		PANEL, TW R
3	88-NS3-003-010		PANEL, TW L
4	88-NS3-005-010		PANEL, DUCT
5	88-NS3-006-010		PANEL, COVER
6	88-NS3-007-010		PANEL, TOP
7	88-NS3-014-010		GRILLE, FRAME ASSY
8	88-NS3-602-010		SPKR, W 200
9	88-NS5-604-010		SPKR, M 120
10	88-NS5-605-010		SPKR, T 60
11	88-NS5-610-010		CORD, SPKR
12	88-NS5-611-010		CORD, SPKR B/L

SPEAKER PARTS LIST (SX-WNF959 <YSTNL>)

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

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	88-NS5-611-010		CORD, SPKR B/L
3	88-NS3-856-010		CTN, PRINTED YSTNL
4	88-NS3-851-010		CUSHION, ASSY1
5	88-NS3-008-010		CUSHION, COVER
6	88-NS3-016-010		GRILLE, FRAME
7	88-NS3-014-010		GRILLE, FRAME ASSY
8	88-NS3-858-010		LBL, BAR-CODE YST
9	88-NS3-013-010		LBL, SPEC YST
10	88-NS3-015-010		NET,
11	88-NS3-006-010		PANEL, COVER
12	88-NS3-005-010		PANEL, DUCT
13	88-NS3-001-010		PANEL, FR
14	88-NS3-007-010		PANEL, TOP
15	88-NS3-003-010		PANEL, TW, L
16	88-NS3-002-010		PANEL, TW, R
17	88-NS5-604-010		SPKR, M 120
18	88-NS5-605-010		SPKR, T 60
19	88-NS3-602-010		SPKR, W 200

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
ADHESIVE	ADHESIVE
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	
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AIWA CO., LTD.

9820543, 912204, 931261

Tokyo Japan