

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM: 2ZM-3MK2YPR4N
BASIC CD MECHANISM: 4ZG-1 VOS1DSH

SYSTEM	CD-CASSEIVER	SPEAKER
NSX-AK772	CX-NAK772	SX-NAV704 SX-CR675

If requiring information about the CD mechanism, see Service Manual of 4ZG-1,
S/M Code No.09-985-249-80T.

TABLE OF CONTENTS

SPECIFICATIONS	3
NOTICE BEFORE STARTING REPAIR	4, 5
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING	6
PRECAUTION TO REPLACE OPTICAL BLOCK	6
ELECTRICAL MAIN PARTS LIST	7 ~ 12
TRANSISTOR ILLUSTRATION	13
BLOCK DIAGRAM – 1 (PRO)	14
BLOCK DIAGRAM – 2 (MAIN / FRONT)	15, 16
WIRING – 1 (MAIN)	17, 18
SCHEMATIC DIAGRAM – 1 (MAIN 1/2)	19, 20
WIRING – 2-1 (FRONT)	21, 22
WIRING – 2-2 (FRONT)	23, 24
SCHEMATIC DIAGRAM – 2 (FRONT)	25, 26
SCHEMATIC DIAGRAM – 3 (MAIN 2/2)	27, 28
WIRING – 3 (PRO)	29, 30
SCHEMATIC DIAGRAM – 4 (PRO)	31, 32
WIRING – 4 (SW)	33
WIRING – 5 (AC1 / AC2)	34
WIRING – 6 (DECK)	35
SCHEMATIC DIAGRAM – 5 (TUNER FRONT END)	36
IC BLOCK DIAGRAM	37 ~ 43
IC DESCRIPTION	44, 45
FL GRID ASSIGNMENT & ANODE CONNECTION	46, 47
ADJUSTMENT < TUNER / DECK >	48, 49
PRACTICAL SERVICE FIGURE	50
MECHANICAL EXPLODED VIEW 1 / 1	51, 52
MECHANICAL PARTS LIST 1 / 1	53
TAPE MECHANISM EXPLODED VIEW 1 / 1	54, 55
TAPE MECHANISM PARTS LIST 1 / 1	56
SPRING APPLICATION POSITION	57
SPEAKER DISASSEMBLY INSTRUCTIONS	58
SPEAKER PARTS LIST	59
ACCESSORIES / PACKAGE LIST	59
REFERENCE NAME LIST	60

SPECIFICATIONS

<FM Tuner section>

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity(IHF) 13.2dBf
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 350uV/m
Antenna Loop antenna

<SW Tuner section>

Tuning range 5.900 MHz to 17.900 MHz
Antenna Wire antenna

< Amplifier section >

Power output **Front**
 Rated : 80 W + 80 W
 (6 ohms, THD 1%, 1 kHz)
 Reference : 100 W + 100 W
 (6 ohms, THD 10%, 1 kHz)
Rear (Surround)
 Rated : 33 W + 33 W
 (8 ohms, THD 1%, 1 kHz)
 Reference : 40 W + 40 W
 (8 ohms, THD 10%, 1 kHz)
Center
 Rated : 33 W
 (8 ohms, THD 1%, 1 kHz)
 Reference : 40 W
 (8 ohms, THD 10%, 1 kHz)
Total harmonic distortion 0.05% (50 W, 1 kHz,
 6 ohms, DIN AUDIO / Front)
Inputs VIDEO/AUX : 210 mV
 (adjustable)
 MD : 210mV (adjustable)
 MIC1, MIC2 : 1.4mV
 (10 kohms)
 5.1 CH INPUT
 FRONT (L,R) : 560 mV
 REAR (L,R) : 320 mV
 CENTER : 300 mV
 SUB WOOFER : 400 mV
Outputs LINE OUT: 280mV
 VIDEO OUT: 1.0 Vp-p
 (75 ohms)
 SUB WOOFER : 1 V
 SPEAKERS: accept
 speakers of 6 ohms or more
 SURROUND SPEAKERS:
 accept speakers of 8 ohms to
 16 ohms
 CENTER SPEAKER:
 accept speakers of 8 ohms
 or more
 PHONES (stereo jack) :
 accepts headphones of 32
 ohms or more

< Cassette deck section >

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape : 50 Hz – 16000 Hz
 Normal tape : 50 Hz – 15000
 Hz
Recording system AC bias
Heads Deck 1 : Playback head x 1
 Deck 2 : Recording/playback
 head x 1/ erase
 head x 1

<Compact disc player section>

Laser Semiconductor laser
 (λ = 780nm)
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
Video signal NTSC/PAL color format
 (selectable)
Video data MPEG 1
Audio data MPEG 1, LAYER 2

<Speakersystem> SX-NAV704

Cabinet type 2 way, bass reflex (magnetic
 shielded type)
Speakers Woofer : 160 mm cone type
 Tweeter : 80 mm cone type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 235 x 324 x 260 mm
Weight 5.4 kg

<General>

Power requirements 120 V/220 - 230 V/240 V AC
 switchable, 50/60 Hz
Power consumption 210 W
Dimensions of main unit 260 x 324 x 348 mm
Weight of main unit 8.9 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 NR / DOLBY PRO LOGIC
 Manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY", and the double-D symbol  and "PRO LOGIC" 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.

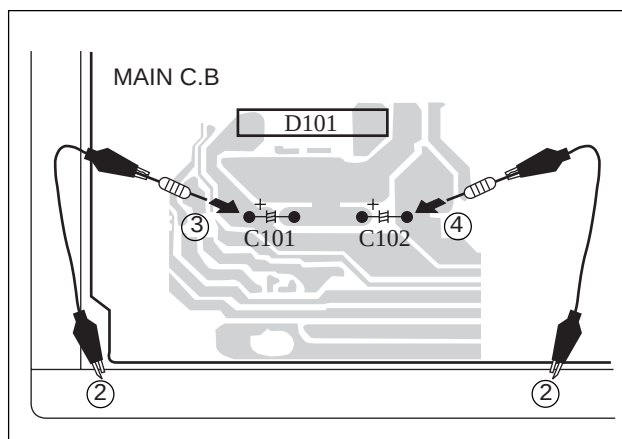


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (ohm)	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 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.

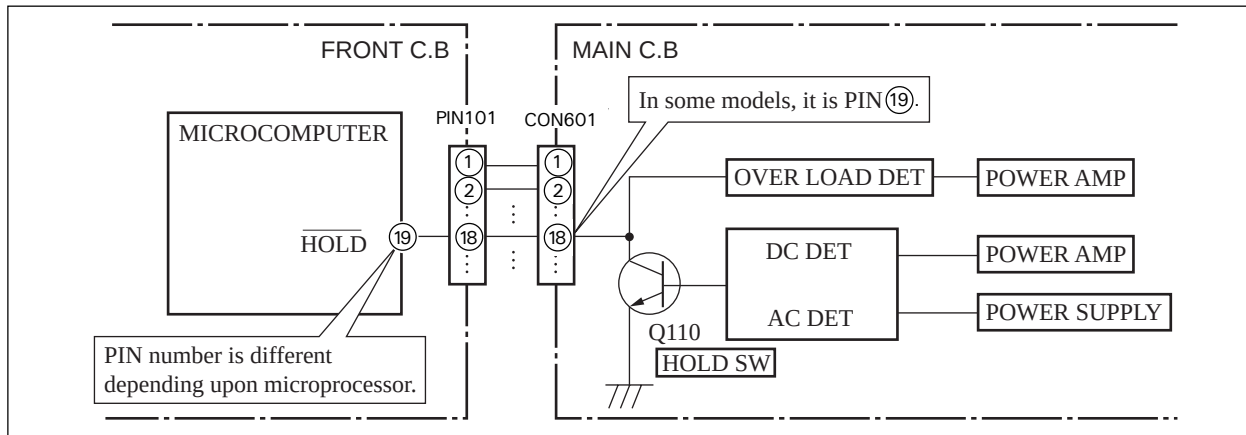


Fig-2-1

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.

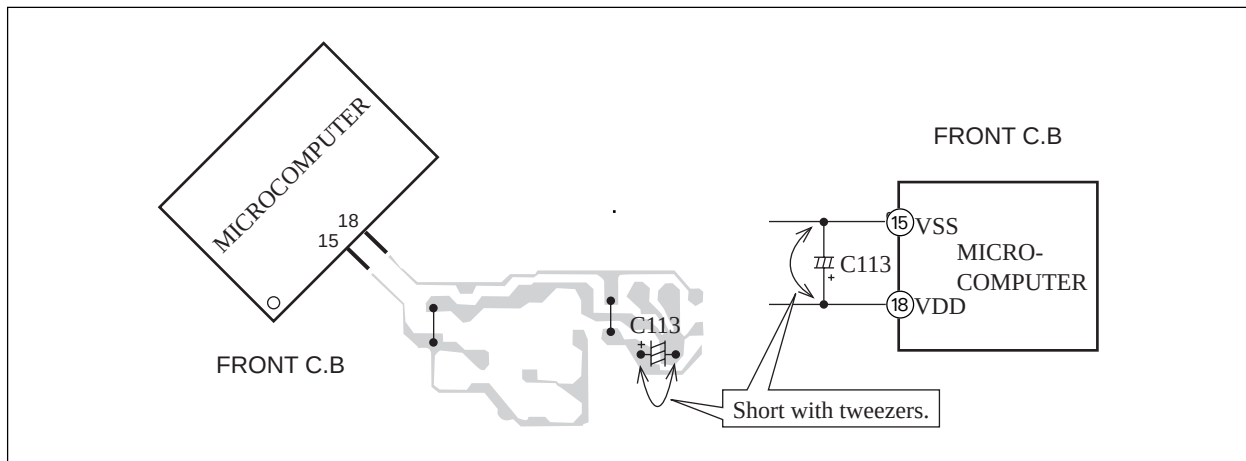


Fig-2-2

- 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

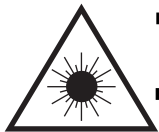
Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

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.

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.

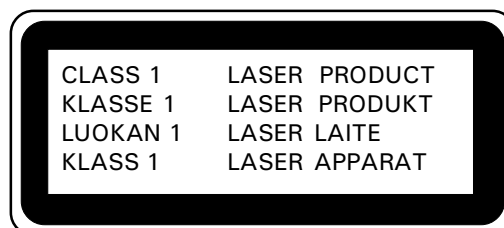
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

VAROITUS!

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

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

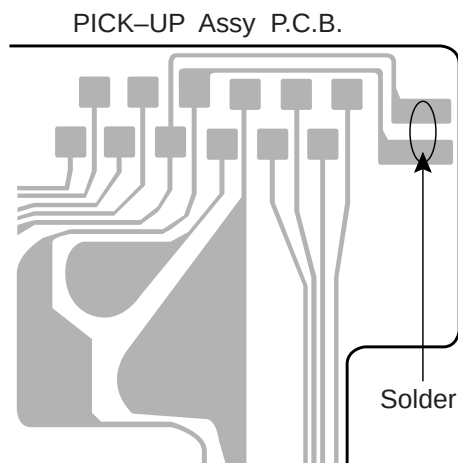


Precaution to replace Optical block

(KSS-213F)

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

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



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				87-A40-341-080			ZENER,MTZJ 36 A
	88-NF5-615-040		C-IC,MSM6654A-521GS-KR1	87-A40-004-080			ZENER,MTZJ16A
	88-NH7-630-010		C-IC,LC866560W-5J08	87-A40-488-080			DIODE,1SS244
	87-070-083-010		IC,GP1U281X	87-A40-345-080			ZENER,MTZJ10C
	87-A20-783-040		C-IC,BA7762AFS	87-A40-184-090			DIODE,RF34
	87-A20-083-010		IC,BA3835S	87-A40-002-080			ZENER,MTZJ5.1C
	87-A20-804-040		C-IC,NJM2152M	87-A40-438-080			ZENER,MTZJ4.7A
	87-017-915-080		IC,BU4094BCF	87-A40-234-080			ZENER,MTZJ5.6A
	87-A21-011-040		C-IC,M62445FP-600D	87-A40-115-060			DIODE,RS603M
	87-017-888-080		IC,NJM4558MD	87-017-931-080			ZENER,MTZJ5.6B
	87-070-127-110		IC,LC72131D	87-A40-370-090			DIODE,RK46-P20
	87-020-454-010		IC,DN6851	87-017-178-090			DIODE,IN5402-BD54
	87-070-289-040		C-IC,BU2092F	87-A40-116-060			DIODE,RS403L-D-51
	87-A20-913-010		IC,LA1837 NL	87-A40-348-080			ZENER,MTZJ3.3A
	87-A20-715-010		IC,M62439SP	87-A40-442-080			ZENER,MTZJ9.1A
	87-A20-853-010		C-IC,M62463FP	87-A40-269-080			C-DIODE,MC2836
	87-017-726-080		C-IC,BU4052BCF	87-A40-270-080			C-DIODE,MC2838
	87-017-917-080		C-IC,BU4066BCF	MAIN C.B			
	87-A20-561-040		C-IC,M65847AFP	C103	87-016-658-090		CAP,E 4700-35 SMG
TRANSISTOR				C104	87-016-658-090		CAP,E 4700-35 SMG
	87-A30-087-080		C-FET,2SK2158	C105	87-012-368-080		C-CAP,S 0.1-50 F
	89-213-702-010		TR,2SB1370 (1.8W)	C106	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-263-080		C-TR,RN1410	C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-071-080		C-TR,RT1N 144C	C108	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-610-080		TR,KTC3198GR	C109	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-076-080		C-TR,2SC3052F	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-234-080		TR,CSC4115BC	C111	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-075-080		C-TR,2SA1235F	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-026-609-080		TR,KTA1266GR	C113	87-010-385-080		CAP, ELECT 220-25V
	87-A30-107-070		C-TR,CMBT5401	C114	87-010-385-080		CAP,E 220-25V
	87-A30-190-080		TR,CC5551	C115	87-010-385-080		CAP,E 220-25V
	87-A30-097-010		TR,FN 1016	C116	87-010-385-080		CAP, ELECT 220-25V
	87-A30-098-010		TR,FP 1016	C117	87-010-430-080		CAP, ELECT 100-63
	87-A30-106-070		C-TR,CMBT5551	C118	87-010-263-080		CAP, ELECT 100-10V
	87-A30-072-080		C-TR,RT1P 144C	C119	87-010-260-080		CAP, ELECT 47-25V
	87-A30-074-080		C-TR,RT1P 141C	C120	87-010-403-080		CAP, ELECT 3.3-50V
	87-026-232-080		C-TR,DTA 144WK	C121	87-012-140-080		CAP 470P
	87-A30-073-080		C-TR,RT1N 141C	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-105-080		C-TR,RT1P 441C	C124	87-010-112-080		CAP, ELECT 100-16V
	89-112-965-080		TR,2SA1296 (0.75W)	C125	87-010-235-080		CAP,E 470-16 SME
	87-A30-159-080		C-TR,KTA1298Y	C151	87-016-520-090		CAP,E 3300-65
	89-327-143-080		TR,2SC2714 (0.1W)	C152	87-016-520-090		CAP,E 3300-65
	87-026-463-080		TR,2SA933SRS	C204	87-016-299-080		CAP, E 100-10 SME
	87-A30-162-010		FET,2SK2937	C205	87-010-805-080		CAP,S 1-16
	87-026-580-080		C-TR,DTA123JK	C206	87-010-805-080		CAP,S 1-16
	87-A30-221-040		C-TR,DTA114WK	C209	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-086-070		C-TR,CSD1306E	C210	87-010-546-080		CAP, ELECT 0.33-50V
	89-505-434-540		C-FET,2SK543-TB (4/5)	C211	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-137-010		TR,2SD2494	C212	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-138-010		TR,2SB1625	C213	87-010-186-080		CAP,CHIP 4700P
	87-A30-142-040		C-TR,DTA123EKA	C214	87-010-186-080		CAP,CHIP 4700P
	87-A30-108-010		TR,2SB1626	C215	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-109-010		TR,2SD2495	C216	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-214-010		TR,2SB1344	C217	87-A10-899-080		CAP, ELECT 47-25V BP
	87-A30-215-010		TR,2SD2025	C218	87-A10-899-080		CAP, ELECT 47-25V BP
	87-A30-104-080		C-TR,RT1N441C	C219	87-010-805-080		CAP,S 1-16
	87-026-223-080		C-TR,DTC143TK	C220	87-010-805-080		CAP,S 1-16
DIODE				C223	87-010-197-080		CAP,CHIP 0.01 DM
	87-A40-470-080		DIODE,1SS254	C224	87-010-197-080		CAP,CHIP 0.01 DM
	87-017-654-060		DIODE,GBU6JL 6131	C229	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A40-505-040		C-DIODE,KDS181	C230	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A40-509-080		ZENER,MTZJ6.8C	C233	87-010-544-080		CAP, ELECT 0.1-50V
	87-070-136-080		ZENER,MTZJ5.1B	C234	87-010-544-080		CAP, ELECT 0.1-50V
	87-A40-504-040		C-DIODE,KDS184	C235	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-070-274-080		DIODE,1N4003 SEM	C237	87-012-368-080		C-CAP,S 0.1-50 F
				C238	87-012-368-080		C-CAP,S 0.1-50 F
				C239	87-012-368-080		C-CAP,S 0.1-50 F
				C240	87-012-368-080		C-CAP,S 0.1-50 F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C247	87-010-178-080		C-CAP,S 1000P-50 CH	C458	87-010-404-080		CAP, ELECT 4.7-50V
C248	87-010-178-080		C-CAP,S 1000P-50 CH	C501	87-A10-060-080		C-CAP,S 0.18-16 KB
C280	87-010-188-080		C-CAP,S 6800P-50 B	C502	87-A10-060-080		C-CAP,S 0.18-16 KB
C301	87-010-318-080		C-CAP,S 47P-50 CH	C503	87-012-154-080		C-CAP,S 150P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH	C504	87-012-154-080		C-CAP,S 150P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH	C505	87-012-145-080		CAP,CHIP S 270P CH
C304	87-012-157-080		C-CAP,S 330P-50 CH	C506	87-012-145-080		CAP,CHIP S 270P CH
C305	87-012-145-080		CAP, CHIP S 270P CH	C507	87-010-183-080		C-CAP,S 2700P-50 B
C306	87-012-145-080		CAP, CHIP S 270P CH	C509	87-010-196-080		CHIP CAPACITOR,0.1-25
C307	87-010-196-080		CHIP CAPACITOR,0.1-25	C510	87-010-177-080		C-CAP,S 820P-50 SL
C309	87-010-196-080		CHIP CAPACITOR,0.1-25	C511	87-010-177-080		C-CAP,S 820P-50 SL
C310	87-010-196-080		CHIP CAPACITOR,0.1-25	C512	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022	C513	87-010-374-080		CAP, ELECT 47-10V
C312	87-010-198-080		CAP, CHIP 0.022	C514	87-010-196-080		CHIP CAPACITOR,0.1-25
C313	87-010-178-080		CHIP CAP 1000P	C515	87-010-263-080		CAP, ELECT 100-10V
C314	87-010-178-080		CHIP CAP 1000P	C517	87-010-183-080		C-CAP,S 2700P-50 B
C315	87-010-178-080		CHIP CAP 1000P	C521	87-016-460-080		C-CAP,S 0.22-16 B
C316	87-010-178-080		CHIP CAP 1000P	C522	87-016-460-080		C-CAP,S 0.22-16 B
C321	87-016-492-080		C-CAP,S 0.33-16 FZ	C523	87-016-460-080		C-CAP,S 0.22-16 B
C322	87-016-492-080		C-CAP,S 0.33-16 FZ	C527	87-010-196-080		CHIP CAPACITOR,0.1-25
C324	87-010-260-080		CAP, ELECT 47-25V	C551	87-010-401-080		CAP, ELECT 1-50V
C325	87-010-370-080		CAP,E 330-6.3 SME	C552	87-010-263-080		CAP, ELECT 100-10V
C327	87-010-404-080		CAP, ELECT 4.7-50V	C553	87-010-380-080		CAP, ELECT 47-16V
C328	87-010-404-080		CAP, ELECT 4.7-50V	C601	87-010-180-080		C-CER 1500P
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C602	87-010-180-080		C-CER 1500P
C335	87-010-401-080		CAP, ELECT 1-50V	C613	87-016-081-080		C-CAP,S 0.1-16 RK
C336	87-010-401-080		CAP, ELECT 1-50V	C614	87-016-081-080		C-CAP,S 0.1-16 RK
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C619	87-010-185-080		C-CAP,S 3900P-50 B
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C620	87-010-185-080		C-CAP,S 3900P-50 B
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C621	87-010-401-080		CAP, ELECT 1-50V
C351	87-012-140-080		CAP 470P	C622	87-010-401-080		CAP, ELECT 1-50V
C352	87-012-140-080		CAP 470P	C625	87-010-405-080		CAP, ELECT 10-50V
C354	87-010-175-080		CAP 560P	C626	87-010-405-080		CAP, ELECT 10-50V
C355	87-012-349-080		C-CAP,S 1000P-50 CH	C629	87-010-405-080		CAP, ELECT 10-50V
C356	87-010-260-080		CAP, ELECT 47-25V	C630	87-010-213-080		CAP, CHIP 0.015-25 KB GRM
C357	87-010-197-080		CAP, CHIP 0.01 DM	C631	87-010-992-080		CHIP-CAP,S 0.047-25B
C358	87-010-183-080		C-CAP,S 2700P-50 B	C632	87-010-263-080		CAP, ELECT 100-10V
C359	87-010-183-080		C-CAP,S 2700P-50 B	C633	87-010-263-080		CAP, ELECT 100-10V
C360	87-010-183-080		C-CAP,S 2700P-50 B	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK	C636	87-010-194-080		CAP, CHIP 0.047
C374	87-016-083-080		C-CAP,S 0.15-16 RK	C637	87-010-183-080		C-CAP,S 2700P-50 B
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V	C651	87-010-197-080		CHIP CAPACITOR,0.01 DM
C380	87-010-382-080		CAP, ELECT 22-25V	C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM	C701	87-010-381-080		CAP, ELECT 330-16V
C382	87-010-312-080		C-CAP,S 15P-50 CH	C702	87-010-404-080		CAP, ELECT 4.7-50V
C383	87-010-197-080		CAP, CHIP 0.01 DM	C703	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V	C704	87-010-197-080		CAP, CHIP 0.01 DM
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C709	87-010-322-080		C-CAP,S 100P-50 CH
C387	87-012-145-080		CAP, CHIP S 270P CH	C711	87-010-263-080		CAP, ELECT 100-10V
C391	87-010-319-080		C-CAP,S 56P-50 CH	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C392	87-010-319-080		C-CAP,S 56P-50 CH	C713	87-010-197-080		CAP, CHIP 0.01 DM
C393	87-010-319-080		C-CAP,S 56P-50 CH	C714	87-010-197-080		CAP, CHIP 0.01 DM
C394	87-010-319-080		C-CAP,S 56P-50 CH	C721	87-010-312-080		C-CAP,S 15P-50 CH
C401	87-010-401-080		CAP, ELECT 1-50V	C722	87-010-312-080		C-CAP,S 15P-50 CH
C402	87-010-401-080		CAP, ELECT 1-50V	C723	87-010-178-080		CHIP CAP 1000P
C403	87-010-182-080		C-CAP,S 2200P-50 B	C725	87-010-178-080		CHIP CAP 1000P
C404	87-010-182-080		C-CAP,S 2200P-50 B	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C405	87-010-193-080		CHIP CAPACITOR,0.033	C728	87-010-248-080		CAP, ELECT 220-10V
C406	87-010-193-080		CHIP CAPACITOR,0.033	C755	87-010-197-080		CAP, CHIP 0.01 DM
C407	87-010-404-080		CAP, ELECT 4.7-50 M SME	C756	87-010-197-080		CAP, CHIP 0.01 DM
C408	87-010-404-080		CAP, ELECT 4.7-50 M SME	C757	87-010-318-080		C-CAP,S 47P-50 CH
C409	87-010-380-080		CAP, ELECT 47-16V	C758	87-010-149-080		C-CAP,S 5P-50 CH
C410	87-010-380-080		CAP, ELECT 47-16V	C759	87-012-154-080		C-CAP,S 150P-50 CH
C411	87-010-405-080		CAP, ELECT 10-50V	C760	87-012-154-080		C-CAP,S 150P-50 CH
C412	87-010-381-080		CAP, ELECT 330-16 SME	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C415	87-010-185-080		CHIP CAPACITOR 3900P (K)	C762	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-185-080		CHIP CAPACITOR 3900P (K)	C763	87-010-194-080		CAP, CHIP 0.047
C457	87-010-404-080		CAP, ELECT 4.7-50V	C764	87-010-319-080		C-CAP,S 56P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C765	87-010-197-080	CAP, CHIP	0.01 DM	L202	87-003-383-010		COIL,1UH-S
C766	87-010-197-080	CAP, CHIP	0.01 DM	L301	87-A50-049-010		COIL,TRAP 85K(COI)
C767	87-010-405-080	CAP, ELECT	10-50V	L302	87-A50-049-010		COIL,TRAP 85K(COI)
C768	87-010-197-080	CAP, CHIP	0.01 DM	L351	87-007-342-010		COIL,OSC 85K BIAS
C769	87-010-408-080	CAP, ELECT	47-50V	L771	87-A50-266-010		COIL,FM DET-2N(TOK)
C770	87-015-821-080	C-CAP	0.047	L772	87-A90-052-010		FLTR,CFMT-450A (TOK)
C771	87-010-407-080	CAP, ELECT	33-50V	L781	87-005-847-080		COIL,2.2UH(CECS)
C772	87-010-194-080	CAP, CHIP	0.047	L832	86-NF2-694-080		COIL,2.2UH K CECS
C773	87-010-196-080	CHIP CAPACITOR	0.1-25	L941	87-A50-022-010		COIL,ANT SW (COI) 7.96MHZ
C774	87-010-263-080	CAP, ELECT	100-10V	L942	87-A50-173-010		COIL,OSC SW-N(COI)
C775	87-010-404-080	CAP, ELECT	4.7-50V	L943	87-005-372-080		COIL,S 1MHM
C776	87-010-197-080	CAP, CHIP	0.01 DM	L944	87-A50-159-010		COIL,10MH K C2B
C777	87-010-400-080	CAP, ELECT	0.47-50V	L981	88-NF8-625-010		COIL,AM PACK 3N(TOK)
C778	87-010-401-080	CAP, ELECT	1-50V	M451	87-A90-796-010		FAN,F614R-12MC-15-30MM
C779	87-010-401-080	CAP, ELECT	1-50V	R237	87-A00-262-080		RES,M/F 0.15-2W J
C780	87-010-196-080	CHIP CAPACITOR	0.1-25	R238	87-A00-262-080		RES,M/F 0.15-2W J
C781	87-010-405-080	CAP, ELECT	10-50V	R239	87-A00-262-080		RES,M/F 0.15-2W J
C782	87-010-405-080	CAP, ELECT	10-50V	R240	87-A00-262-080		RES,M/F 0.15-2W J
C783	87-015-819-080	CAPACITOR	0.01	RY101	87-A90-464-010		RELAY, DG12D2-0 (M)
C784	87-010-197-080	CAP, CHIP	0.01 DM	SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
C785	87-010-403-080	CAP, ELECT	3.3-50V	SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
C786	87-010-403-080	CAP, ELECT	3.3-50V	TC941	87-011-220-080		TRIMMER,CAP 20P VTC
C789	87-010-179-080	CAP,CHIP S	B1200P	TC943	87-011-221-080		CAP,TRIMMER 30P
C790	87-010-179-080	CAP,CHIP S	B1200P	TH201	87-A90-221-080		C-THMS,100K
C791	87-010-405-080	CAP, ELECT	10-50V	TH202	87-A90-221-080		C-THMS,100K
C793	87-010-177-080	C-CAP,S	820P-50 SL	W102	87-A90-460-010		HLDR,WIRE 2.5-7P
C794	87-010-406-080	CAP, ELECT	22-50	W104	85-NF5-628-010		F-CABLE 7P-2.5
C795	87-010-596-080	CAP, S	0.047-16	WH102	87-A90-460-010		HLDR,WIRE 2.5-7P
C796	87-010-403-080	CAP, ELECT	3.3-50V	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C797	87-010-179-080	C-CAP,S	1200P BK	X771	87-030-354-010		VIB,CER 450.0KHZ BFU C
C798	87-010-179-080	C-CAP,S	1200P BK				
C799	87-010-194-080	CAP, CHIP	0.047	FRONT	C.B		
C812	87-010-197-080	CAP, CHIP	0.01 DM				
C814	87-010-197-080	CAP, CHIP	0.01 DM	C101	87-010-075-040		CAP,E 10-16 5L
C820	87-010-408-080	CAP, ELECT	47-50V	C102	87-010-196-080		CHIP CAPACITOR,0.1-25
				C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C821	87-010-197-080	CAP, CHIP	0.01 DM	C104	87-010-494-040		CAP,E 1-50 GAS
C822	87-010-197-080	CAP, CHIP	0.01 DM	C105	87-010-178-080		CHIP CAP 1000P
C823	87-010-197-080	CAP, CHIP	0.01 DM				
C828	87-010-196-080	CHIP CAPACITOR	0.1-25	C106	87-A10-189-040		CAP,E 220-10
C829	87-010-196-080	CHIP CAPACITOR	0.1-25	C107	87-010-197-080		CAP, CHIP 0.01 DM
				C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C940	87-010-197-080	C-CAP,S	0.01 BK	C109	87-010-194-080		CAP, CHIP 0.047
C941	87-010-314-080	C-CAP,S	22P-50V	C110	87-012-157-080		C-CAP,S 330P-50 CH
C943	87-010-197-080	C-CAP,S	0.01 BK				
C944	87-014-051-080	CAP,PP	560P	C111	87-010-320-080		CHIP CAP 68P
C945	87-010-197-080	C-CAP,S	0.01 BK	C112	87-010-312-080		C-CAP,S 15P-50 CH
				C113	87-010-316-080		C-CAP,S 33P-50 CH
C947	87-010-197-080	C-CAP,S	0.01 BK	C114	87-010-182-080		C-CAP,S 2200P-50 B
C950	87-014-073-080	CAP,PP	4700P-100J	C115	87-010-182-080		C-CAP,S 2200P-50 B
C952	87-010-197-080	C-CAP,S	0.01 BK				
C953	87-010-197-080	C-CAP,S	0.01 BK	C116	87-010-405-040		CAP,E 10-50
C954	87-010-400-080	CAP,E	0.47-50V	C117	87-012-157-080		C-CAP,S 330P-50 CH
				C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C956	87-010-263-080	CAP,E	100-10V	C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080	CHIP CAPACITOR	0.1-25	C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080	CHIP CAPACITOR	0.1-25				
C962	87-010-401-080	CAP,E	1-50V	C121	87-010-194-080		CAP, CHIP 0.047
CF801	87-008-261-010	FILTER,	SFE10.7MA5-A	C122	87-010-194-080		CAP, CHIP 0.047
				C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CF802	87-008-261-010	FILTER,	SFE10.7MA5-A	C151	87-010-197-080		CAP, CHIP 0.01 DM
CN301	87-099-827-010	CONN,3P	S2M-3W	C201	87-010-178-080		CHIP CAP 1000P
CN351	87-099-832-010	CONN,8P	S2M-8W				
CN551	87-A60-109-010	CONN,2P	V S2M-2W	C202	87-010-194-080		CAP, CHIP 0.047
CN601	87-099-719-010	CONN,30P	TYK-B (X)	C203	87-010-408-040		CAP,E 47-50 SME
				C204	87-010-404-040		CAP,E 4.7-50 SME
CN602	87-A60-131-010	CONN,6P	V FE	C205	87-010-404-040		CAP,E 4.7-50 SME
FB601	87-A50-190-080	C-COIL,S	BLM21A102S	C211	87-012-140-080		C-CAP,S 470P
FFC602	88-906-241-110	FF-CABLE,	6P 1.25				
FFE801	A8-8ZA-193-070	8ZA-1	YFEUNC	C219	87-012-157-080		C-CAP,S 330P-50 CH
J201	87-A60-483-010	JACK,DIA	6.3 BLK ST W/S KM	C220	87-012-157-080		C-CAP,S 330P-50 CH
				C221	87-012-157-080		C-CAP,S 330P-50 CH
J203	87-033-240-010	TERMINAL,SP	4P32SV1-05	C222	87-012-157-080		C-CAP,S 330P-50 CH
J601	87-A60-426-010	JACK,PIN	6P YKC21-3835	C225	87-012-157-080		C-CAP,S 330P-50 CH
J801	87-033-239-010	TERMINAL,HSP	-154V-2				
J940	81-754-629-010	CONNECTOR	XH 2P (UL)	C371	87-010-196-080		CHIP CAPACITOR,0.1-25
L201	87-003-383-010	COIL,1UH-S		C372	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C373	87-010-196-080		CHIP CAPACITOR,0.1-25	LED435	87-A40-448-080		LED,SLR-56PTT31 GRN
C375	87-010-196-080		CHIP CAPACITOR,0.1-25	LED436	87-A40-448-080		LED,SLR-56PTT31 GRN
C376	87-012-158-080		C-CAP,S 390P-50 CH	LED437	87-A40-448-080		LED,SLR-56PTT31 GRN
C377	87-010-196-080		CHIP CAPACITOR,0.1-25	LED444	87-070-278-010		LED,SLZ-738A-24-S
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	LED445	87-070-290-010		LED,SLZ 936-30-S
C402	87-010-196-080		CHIP CAPACITOR,0.1-25	LED446	87-070-278-010		LED,SLZ-738A-24-S
C404	87-010-196-080		CHIP CAPACITOR,0.1-25	LED447	87-070-278-010		LED,SLZ-738A-24-S
C406	87-010-196-080		CHIP CAPACITOR,0.1-25	LED448	87-070-290-010		LED,SLZ 936-30-S
C408	87-010-196-080		CHIP CAPACITOR,0.1-25	LED449	87-070-278-010		LED,SLZ-738A-24-S
C601	87-010-405-040		CAP,E 10-50	LED450	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C602	87-010-186-080		CAP,CHIP 4700P	LED451	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C603	87-010-405-040		CAP,E 10-50	LED452	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C604	87-010-406-040		CAP,E 22-50 SME	LED453	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C605	87-010-196-080		CHIP CAPACITOR,0.1-25	LED454	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C606	87-010-322-080		C-CAP,S 100P-50 CH	LED455	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C607	87-010-315-080		C-CAP,S 27P-50 CH	LED456	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C608	87-010-196-080		CHIP CAPACITOR,0.1-25	LED457	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C609	87-010-545-040		CAP,E 0.22-50 SME	LED458	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C611	87-010-177-080		C-CAP,S 820P-50 SL	S101	87-A90-894-010		SW,RTRY EC12E12244 ENCODER
C614	87-010-248-040		CAP,E 220-10 SME	S102	87-A90-535-010		SW,RTRY EC16B24304
C651	87-010-401-040		CAP,E 1-50 SME	S301	87-A90-095-080		SW,TACT EVQ11G04M
C652	87-010-196-080		CHIP CAPACITOR,0.1-25	S302	87-A90-095-080		SW,TACT EVQ11G04M
C653	87-010-196-080		CHIP CAPACITOR,0.1-25	S303	87-A90-095-080		SW,TACT EVQ11G04M
C901	87-010-263-040		CAP,E 100-10	S304	87-A90-095-080		SW,TACT EVQ11G04M
C902	87-010-196-080		CHIP CAPACITOR,0.1-25	S305	87-A90-095-080		SW,TACT EVQ11G04M
C903	87-010-313-080		CAP, CHIP 18P	S306	87-A90-095-080		SW,TACT EVQ11G04M
C904	87-012-155-080		C-CAP 180P-50CH	S307	87-A90-095-080		SW,TACT EVQ11G04M
C905	87-010-400-040		CAP,E 0.47-50	S308	87-A90-095-080		SW,TACT EVQ11G04M
CN101	87-099-720-010		CONN,30P TYK-B(P)	S309	87-A90-095-080		SW,TACT EVQ11G04M
CN301	87-A60-131-010		CONN,6P V FE	S310	87-A90-095-080		SW,TACT EVQ11G04M
CN501	87-A60-143-010		CONN,18P V FE	S311	87-A90-095-080		SW,TACT EVQ11G04M
CN701	87-A60-140-010		CONN,15P V FE	S312	87-A90-095-080		SW,TACT EVQ11G04M
CN801	87-A60-138-010		CONN,13P V FE	S313	87-A90-095-080		SW,TACT EVQ11G04M
FB601	87-008-372-080		FILTER, EMI BL OIRNI	S321	87-A90-095-080		SW,TACT EVQ11G04M
FC301	85-NF5-617-010		CABLE,FFC 6P-1.25	S322	87-A90-095-080		SW,TACT EVQ11G04M
FC501	88-915-221-110		FF-CABLE,15P-1.25 220MM	S323	87-A90-095-080		SW,TACT EVQ11G04M
FC502	88-918-251-110		FF-CABLE,18P-1.25 250MM	S324	87-A90-095-080		SW,TACT EVQ11G04M
FC801	85-NF5-618-010		CABLE,FFC 13P-1.25	S325	87-A90-095-080		SW,TACT EVQ11G04M
FL201	88-NF6-611-010		FL,BJ610GK	S326	87-A90-095-080		SW,TACT EVQ11G04M
J601	87-A60-651-010		JACK,3.5MONO	S327	87-A90-095-080		SW,TACT EVQ11G04M
J602	87-A60-651-010		JACK,3.5MONO	S328	87-A90-095-080		SW,TACT EVQ11G04M
L901	87-007-340-010		COIL,CLOCK 4.19MHZ	S329	87-A90-095-080		SW,TACT EVQ11G04M
LED401	87-070-197-080		LED,SLP7118C-51-S-T1	S330	87-A90-095-080		SW,TACT EVQ11G04M
LED402	87-070-197-080		LED,SLP7118C-51-S-T1	S333	87-A90-095-080		SW,TACT EVQ11G04M
LED403	87-070-197-080		LED,SLP7118C-51-S-T1	S334	87-A90-095-080		SW,TACT EVQ11G04M
LED404	87-070-197-080		LED,SLP7118C-51-S-T1	S341	87-A90-095-080		SW,TACT EVQ11G04M
LED405	87-070-197-080		LED,SLP7118C-51-S-T1	S342	87-A90-095-080		SW,TACT EVQ11G04M
LED406	87-070-197-080		LED,SLP7118C-51-S-T1	S343	87-A90-095-080		SW,TACT EVQ11G04M
LED407	87-070-197-080		LED,SLP7118C-51-S-T1	S344	87-A90-095-080		SW,TACT EVQ11G04M
LED408	87-070-197-080		LED,SLP7118C-51-S-T1	S345	87-A90-095-080		SW,TACT EVQ11G04M
LED409	87-070-197-080		LED,SLP7118C-51-S-T1	S346	87-A90-095-080		SW,TACT EVQ11G04M
LED410	87-070-197-080		LED,SLP7118C-51-S-T1	S347	87-A90-095-080		SW,TACT EVQ11G04M
LED411	87-070-201-080		LED,SLP9118C-51-S-T1	S348	87-A90-095-080		SW,TACT EVQ11G04M
LED412	87-070-201-080		LED,SLP9118C-51-S-T1	S349	87-A90-095-080		SW,TACT EVQ11G04M
LED413	87-070-201-080		LED,SLP9118C-51-S-T1	S350	87-A90-095-080		SW,TACT EVQ11G04M
LED414	87-070-201-080		LED,SLP9118C-51-S-T1	X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
LED415	87-070-201-080		LED,SLP9118C-51-S-T1				
LED417	87-070-281-080		LED,SLZ736A-25-S-T1				
LED419	87-070-281-080		LED,SLZ736A-25-S-T1				
LED421	87-070-281-080		LED,SLZ736A-25-S-T1				
LED423	87-070-281-080		LED,SLZ736A-25-S-T1				
LED425	87-070-281-080		LED,SLZ736A-25-S-T1				
LED427	87-070-281-080		LED,SLZ736A-25-S-T1				
LED428	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED429	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED430	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED431	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED432	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED433	87-A40-448-080		LED,SLR-56PTT31 GRN				
LED434	87-A40-448-080		LED,SLR-56PTT31 GRN				

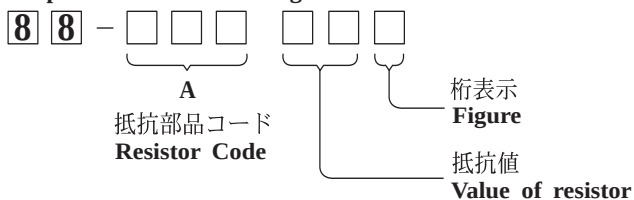
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S354	87-A90-095-080	SW,TACT	EVQ11G04M	C510	87-010-221-080	CAP,E	470-10 M SME
S355	87-A90-095-080	SW,TACT	EVQ11G04M	C511	87-A10-891-080	CAP,E	4.7-25 SME(K)
				C512	87-A10-800-080	C-CAP,S	6800P-16 J B
				C513	87-010-374-080	CAP,E	47-10 M SME
				C514	87-010-196-080	C-CAP,S	0.1-25 Z F
PRO C.B							
C101	87-012-368-080	C-CAP,S	0.1-50 Z F	C515	87-010-401-080	CAP,E	1-50 M SME
C102	87-012-368-080	C-CAP,S	0.1-50 Z F	C516	87-010-401-080	CAP,E	1-50 M SME
C103	87-010-917-090	CAP,E	3300-50 M SMG	C518	87-010-546-080	CAP,E	0.33-50 SME
C104	87-010-917-090	CAP,E	3300-50 M SMG	C519	87-010-400-080	CAP,E	0.47-50 M SME
C105	87-010-196-080	C-CAP,S	0.1-25 Z F	C520	87-010-546-080	CAP,E	0.33-50 SME
C106	87-010-196-080	C-CAP,S	0.1-25 Z F	C521	87-010-546-080	CAP,E	0.33-50 SME
C109	87-010-188-080	C-CAP,S	6800P-50 K B	C522	87-018-209-080	CAP,TC	U 0.1-50 Z F
C112	87-012-368-080	C-CAP,S	0.1-50 FZ	C524	87-010-374-080	CAP,E	47-10 M SME
C113	87-012-368-080	C-CAP,S	0.1-50 FZ	C526	87-010-196-080	C-CAP,S	0.1-25 Z F
C207	87-010-402-080	CAP,E	2.2-50 M SME	C530	87-010-544-080	CAP,E	0.1-50 M SME
C208	87-010-402-080	CAP,E	2.2-50 M SME	C531	87-010-546-080	CAP,E	0.33-50 SME
C209	87-010-183-080	C-CAP,S	2700P-50 K B	C532	87-010-971-080	C-CAP,S	4700P-50 J B
C210	87-010-183-080	C-CAP,S	2700P-50 K B	C533	87-012-349-080	C-CAP,S	1000P-50 J CH
C211	87-010-404-080	CAP,E	4.7-50 M SME	C538	87-010-971-080	C-CAP,S	4700P-50 J B
C212	87-010-404-080	CAP,E	4.7-50 M SME	C539	87-012-349-080	C-CAP,S	1000P-50 J CH
C215	87-010-322-080	C-CAP,S	100P-50 J CH GRM	C540	87-010-401-080	CAP,E	1-50 M SME
C216	87-010-322-080	C-CAP,S	100P-50 J CH GRM	C541	87-010-401-080	CAP,E	1-50 M SME
C217	87-010-408-080	CAP,E	47-50 M SME	C542	87-A10-799-080	C-CAP,S	5600P-16 J B
C218	87-010-408-080	CAP,E	47-50 M SME	C543	87-A10-802-080	C-CAP,S	0.047-16 J B
C219	87-A10-596-080	C-CAP,S	100P-100 J CH	C544	87-A10-229-080	C-CAP,S	0.68-10 K
C220	87-A10-596-080	C-CAP,S	100P-100 J CH	C545	87-012-393-080	C-CAP,S	0.22-16 K
C221	87-A10-899-080	CAP,E	47-25 M BP	C546	87-012-393-080	C-CAP,S	0.22-16 K
C222	87-A10-899-080	CAP,E	47-25 M BP	C547	87-010-404-080	CAP,E	4.7-50 M SME
C223	87-010-544-080	CAP,E	0.1-50 M SME	C548	87-010-404-080	CAP,E	4.7-50 M SME
C224	87-010-544-080	CAP,E	0.1-50 M SME	C549	87-012-393-080	C-CAP,S	0.22-16 K
C225	87-010-993-080	C-CAP,S	0.056-25 K B	C550	87-012-393-080	C-CAP,S	0.22-16 K
C226	87-010-993-080	C-CAP,S	0.056-25 K B	C551	87-016-081-080	C-CAP,S	0.1-16 K R
C227	87-010-196-080	C-CAP,S	0.1-25 Z F	C552	87-A10-802-080	C-CAP,S	0.047-16 J B
C228	87-010-196-080	C-CAP,S	0.1-25 Z F	C553	87-A10-802-080	C-CAP,S	0.047-16 J B
C233	87-010-263-080	CAP,E	100-10 SME	C554	87-016-081-080	C-CAP,S	0.1-16 K R
C234	87-010-263-080	CAP,E	100-10 SME	C555	87-016-081-080	C-CAP,S	0.1-16 K R
C307	87-010-402-080	CAP,E	2.2-50 M SME	C556	87-A10-801-080	C-CAP,S	0.022-16 J B
C309	87-010-183-080	C-CAP,S	2700P-50 K B	C557	87-A10-801-080	C-CAP,S	0.022-16 J B
C311	87-010-404-080	CAP,E	4.7-50 M SME	C558	87-016-081-080	C-CAP,S	0.1-16 K R
C315	87-010-322-080	C-CAP,S	100P-50 J CH GRM	C579	87-010-402-080	CAP,E	2.2-50 M SME
C317	87-010-406-080	CAP,E	22-50 M SME	C580	87-010-402-080	CAP,E	2.2-50 M SME
C319	87-A10-812-080	C-CAP,S	220P-200 J C	C581	87-010-196-080	C-CAP,S	0.1-25 ZF
C321	87-A10-899-080	CAP,E	47-25 M BP	C601	87-010-196-080	C-CAP,S	0.1-25 Z F
C323	87-010-544-080	CAP,E	0.1-50 M SME	C602	87-010-196-080	C-CAP,S	0.1-25 Z F
C325	87-010-993-080	C-CAP,S	0.056-25 K B	C603	87-010-196-080	C-CAP,S	0.1-25 Z F
C327	87-010-196-080	C-CAP,S	0.1-25 Z F	C604	87-010-196-080	C-CAP,S	0.1-25 Z F
C333	87-010-263-080	CAP,E	100-10 SME	J201	87-A60-561-010	JACK,PIN	4P W/R,B/O
C400	87-010-378-080	CAP,E	10-16 M SME	J601	87-A60-562-010	JACK,PIN	6P W/R
C401	87-010-374-080	CAP,E	47-10 M SME	L201	87-003-383-010	COIL,1UH	K
C402	87-010-196-080	C-CAP,S	0.1-25 Z F	L202	87-003-383-010	COIL,1UH	K
C403	87-010-154-080	C-CAP,S	10P-50 D CH	L301	87-003-383-010	COIL,1UH	K
C404	87-010-374-080	CAP,E	47-10 M SME	R243	87-A00-258-080	RES,M/F	0.22-1W J
C405	87-010-196-080	C-CAP,S	0.1-25 Z F	R244	87-A00-258-080	RES,M/F	0.22-1W J
C407	87-010-154-080	C-CAP,S	10P-50 D CH	R245	87-A00-258-080	RES,M/F	0.22-1W J
C408	87-010-545-080	CAP,E	0.22-50 M SME	R246	87-A00-258-080	RES,M/F	0.22-1W J
C410	87-010-546-080	CAP,E	0.33-50 SME	R343	87-A00-258-080	RES,M/F	0.22-1W J
C413	87-010-196-080	C-CAP,S	0.1-25 Z F	R345	87-A00-258-080	RES,M/F	0.22-1W J
C415	87-010-400-080	CAP,E	0.47-50 M SME	R509	87-022-214-080	C-RES,S	100K-1/10W F
C416	87-010-400-080	CAP,E	0.47-50 M SME				
C418	87-010-401-080	CAP,E	1-50 M SME				
C419	87-010-260-080	CAP,E	47-25 SME	AC1 C.B			
C421	87-010-378-080	CAP,E	10-16 M SME	△ F101	87-035-368-010	FUSE,4A	250V
C422	87-010-378-080	CAP,E	10-16 M SME	△ F102	87-035-368-010	FUSE,4A	250V
C501	87-010-176-080	C-CAP,S	680P-50 J SL	△ FC1	87-033-147-010	FUSE CLAMP,MT-20	
C502	87-010-176-080	C-CAP,S	680P-50 J SL	△ FC2	87-033-147-010	FUSE CLAMP,MT-20	
C503	87-A10-804-080	C-CAP,S	0.1-25 J B	△ FC3	87-033-147-010	FUSE CLAMP,MT-20	
C504	87-A10-804-080	C-CAP,S	0.1-25 J B	△ FC4	87-033-147-010	FUSE CLAMP,MT-20	
C505	87-A10-804-080	C-CAP,S	0.1-25 J B	△ PT101	88-NFT-622-010	PT,8NF-26	HR
C506	87-A10-804-080	C-CAP,S	0.1-25 J B	△ SW101	87-A90-165-010	SW,SL 1-2-3	SWS2301
C509	87-010-112-080	CAP,E	100-16 M SME	△ T1	87-A60-317-010	TERMINAL, 1P	MSC

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
△ T2	87-A60-317-010		TERMINAL, 1P MSC	SW2	87-A90-248-019	SW,MICRO	ESE11SH2CXQ
				SW3	87-A90-248-019	SW,MICRO	ESE11SH2CXQ
AC2 C.B				SW4	87-036-110-010	SW,MICRO	SPPB62
				SW5	87-036-110-010	SW,MICRO	SPPB62
				SW6	87-036-110-010	SW,MICRO	SPPB62
△ PR101	87-026-682-080		PROTECTOR,10A 60V491	SW8	87-A90-248-019	SW,MICRO	ESE11SH2CXQ
△ PR102	87-026-682-080		PROTECTOR,10A 60V491	SW9	87-A90-248-019	SW,MICRO	ESE11SH2CXQ
△ PR103	87-026-682-080		PROTECTOR,10A 60V491	W001	82-ZM3-601-019	RBN,CORD	4P-75
△ PR104	87-026-682-080		PROTECTOR,10A 60V491				
△ PR105	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V				
△ PR106	87-A90-195-080		PROTECTOR,7A 491 SERIES 60V	HEAD-1 C.B			
WH101	87-A90-460-010		HLDR,WIRE 2.5-7P		85-ZM3-602-010	PWB,FLEX A	
DECK C.B							
				HEAD-2 C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F		85-ZM3-602-010	PWB,FLEX A	
SFR1	87-024-581-019		SFR,3.3K DIA 6H	CON351	87-NF6-616-010	CONN ASSY,8P-RPB	
SOL1	82-ZM1-618-410		SOL ASSY, 27				
SOL2	82-ZM1-618-410		SOL ASSY, 27				
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ				

○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			抵抗コード Resistor	:A :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

KTA1266GR
KTC3198GR



E C B

CC5551



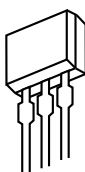
E C B

2SA1296
CSC4115



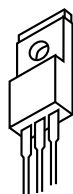
B C E

2SB1370	2SD2494
2SB1344	2SD2495
2SB1625	FN1016
2SB1626	FP1016
2SD2025	



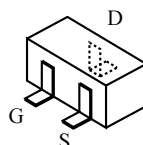
E C B

2SA933

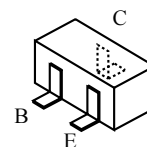


G D S

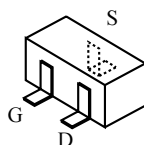
2SK2937



2SK2158

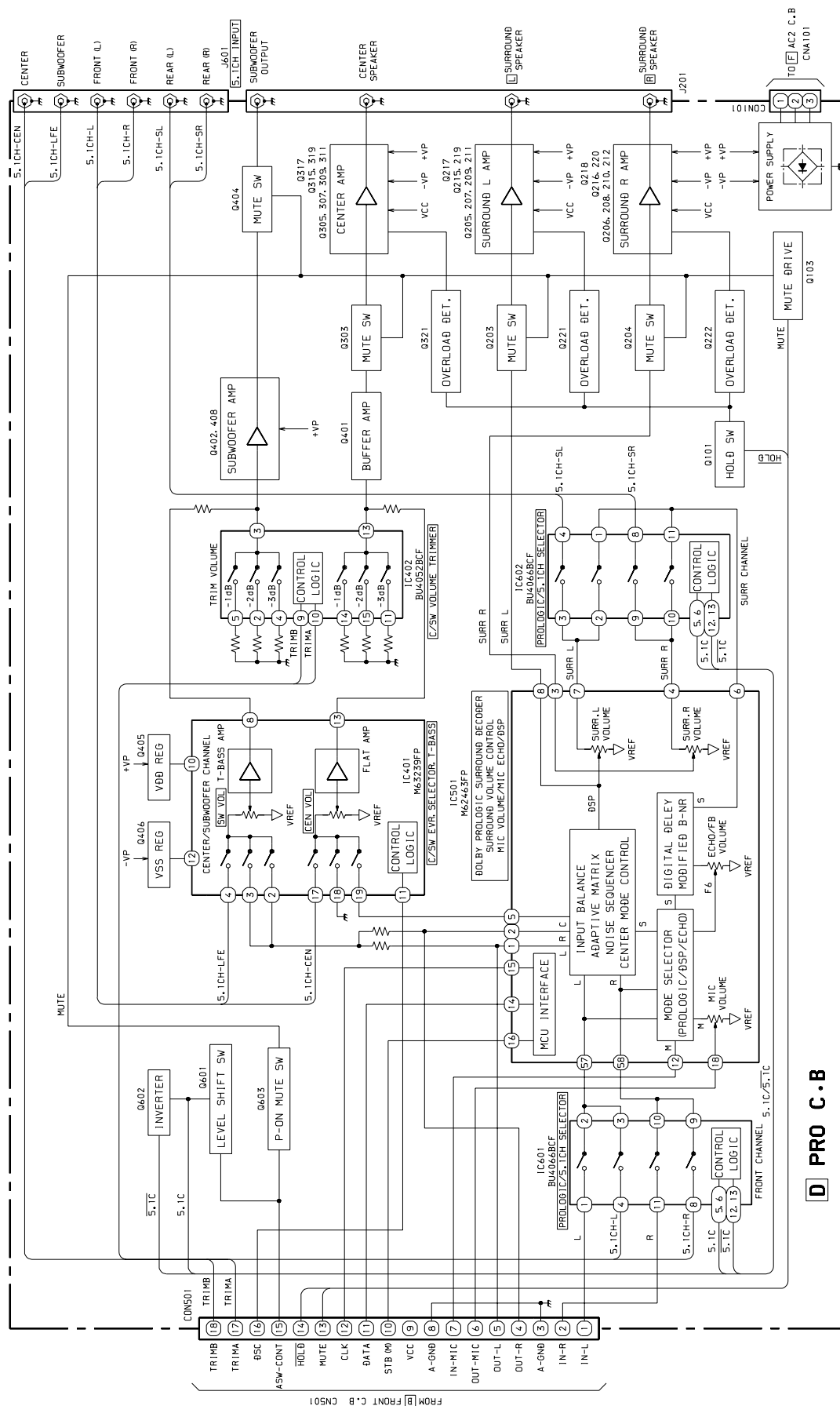


2SA1235F	DTC143TK
2SC2714	KTA1298Y
2SC3052F	RN1410
CMBT5401	RT1N141C
CMBT5551	RT1N144C
CSD1306E	RT1N441C
DTA114WK	RT1P141C
DTA123EKA	RT1P144C
DTA123JK	RT1P441C
DTA144WK	

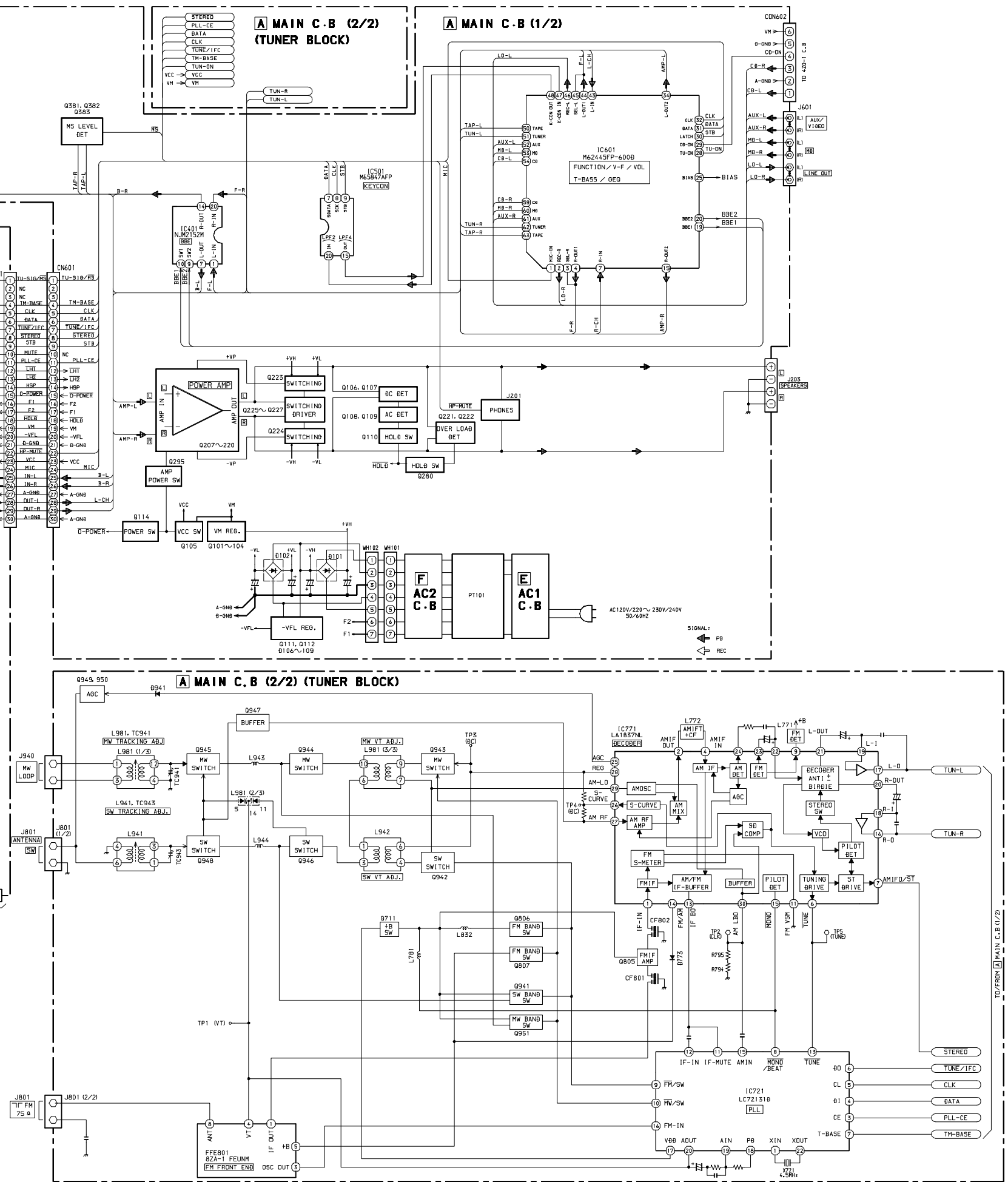
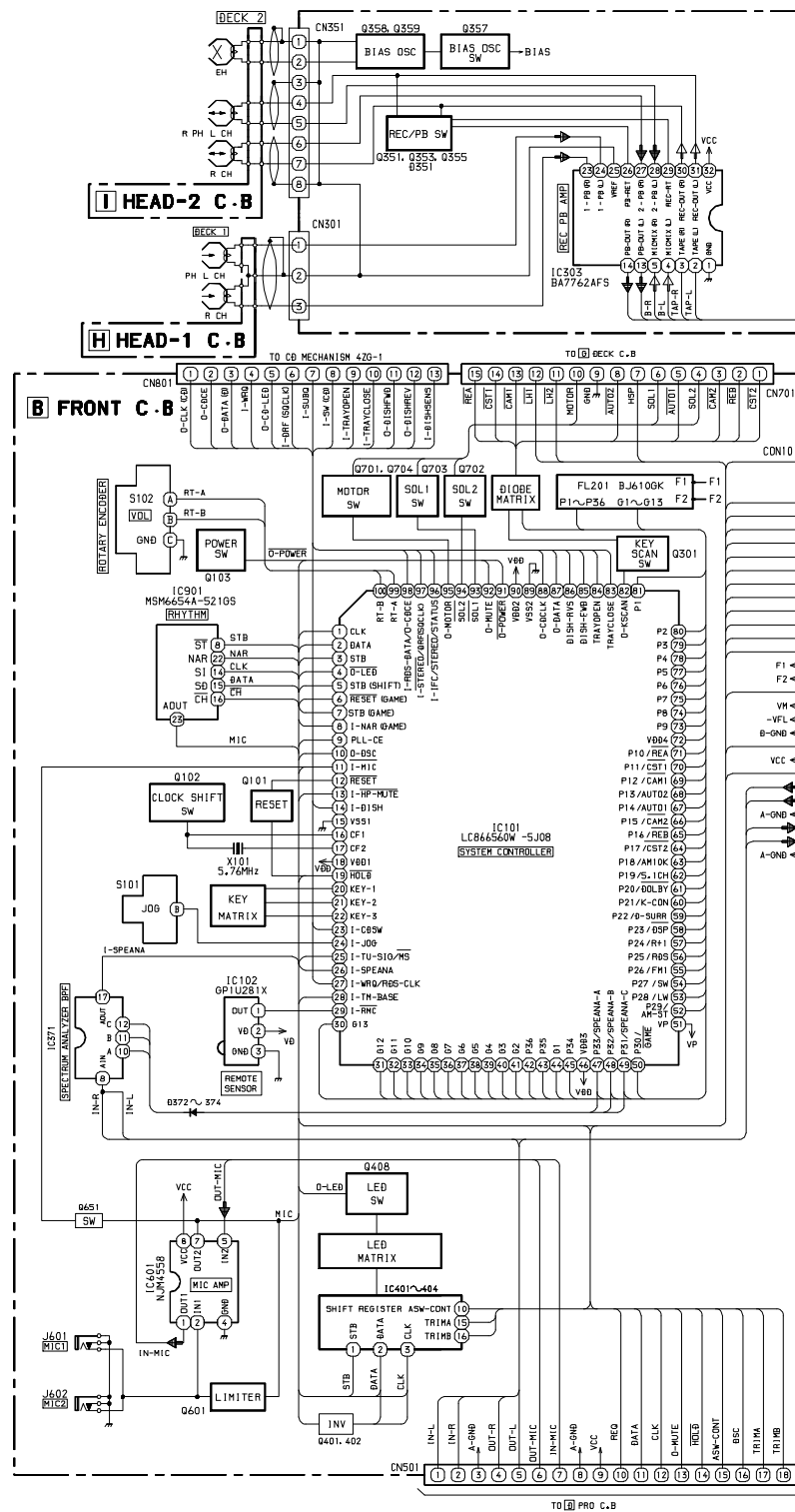


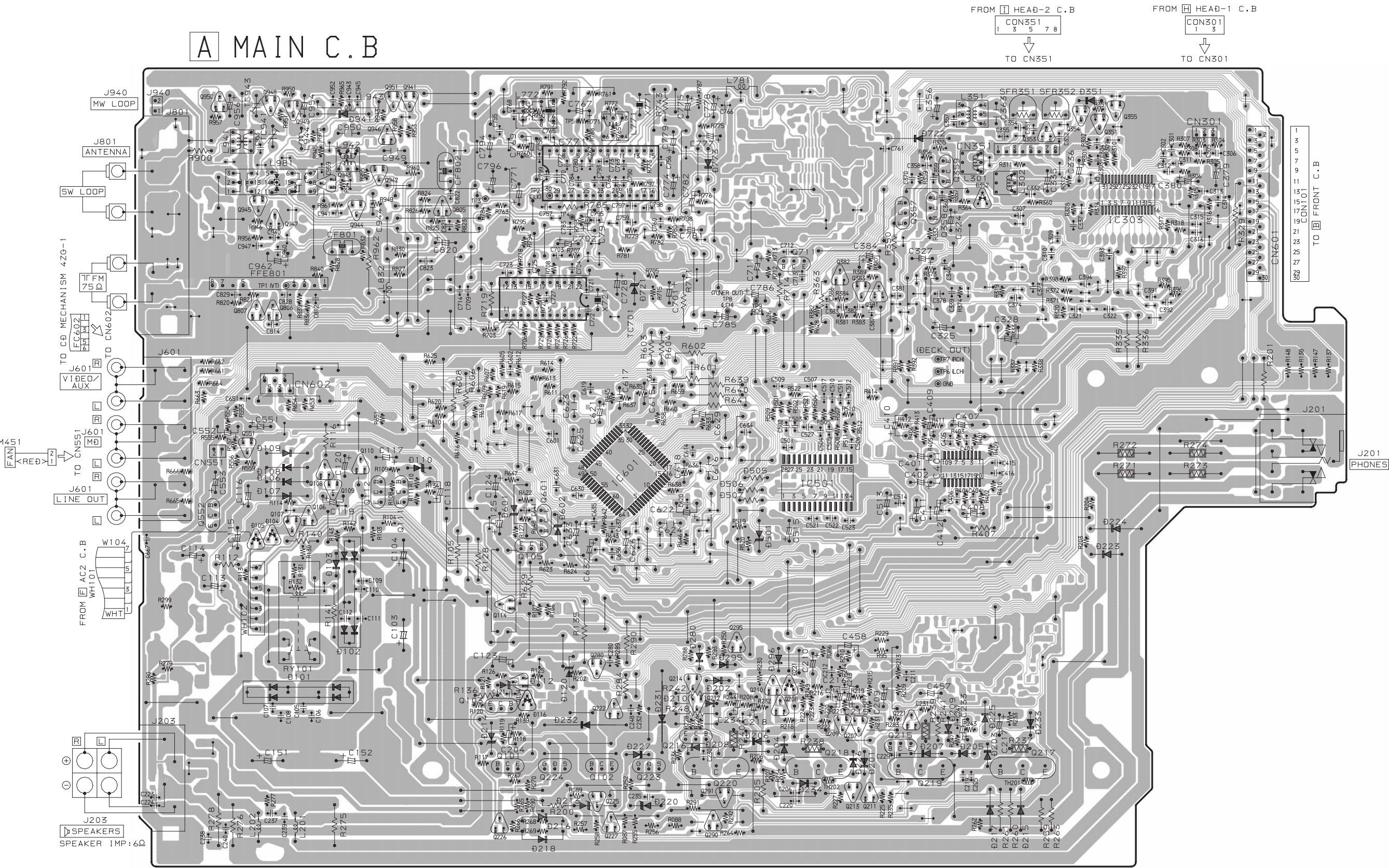
2SK543-TB(4/5)

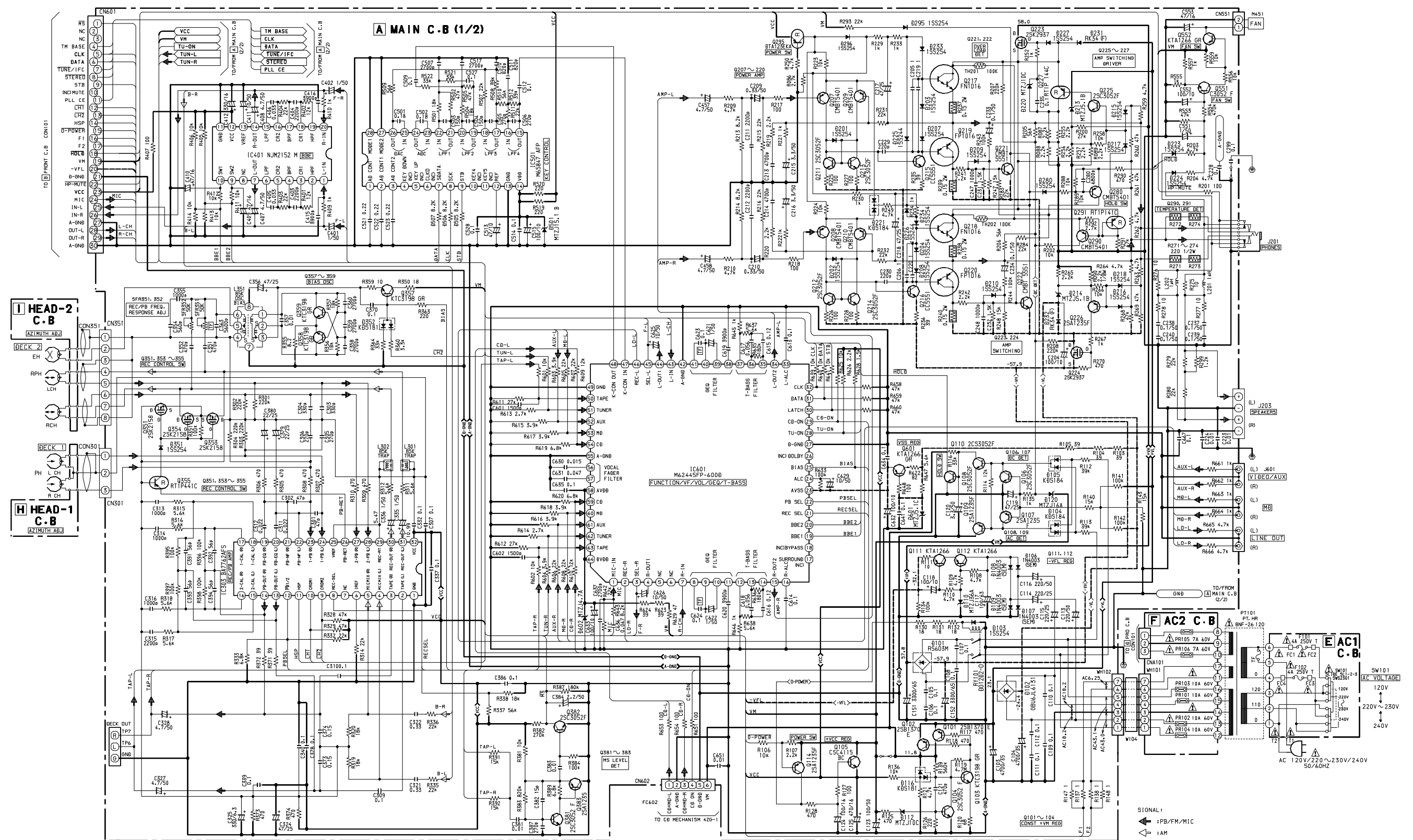
BLOCK DIAGRAM - 1 (PRO)



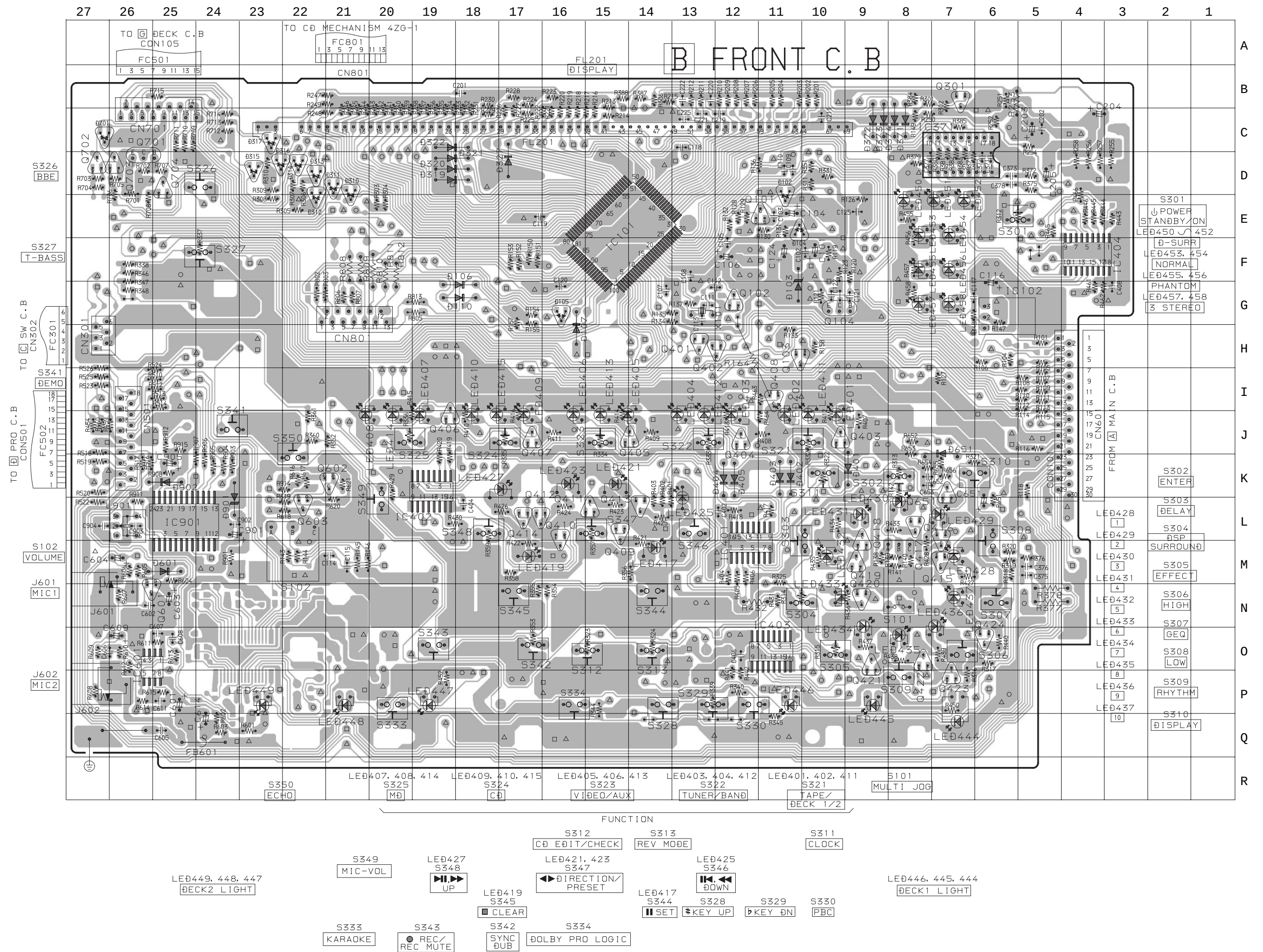
BLOCK DIAGRAM - 1 (MAIN / FRONT)



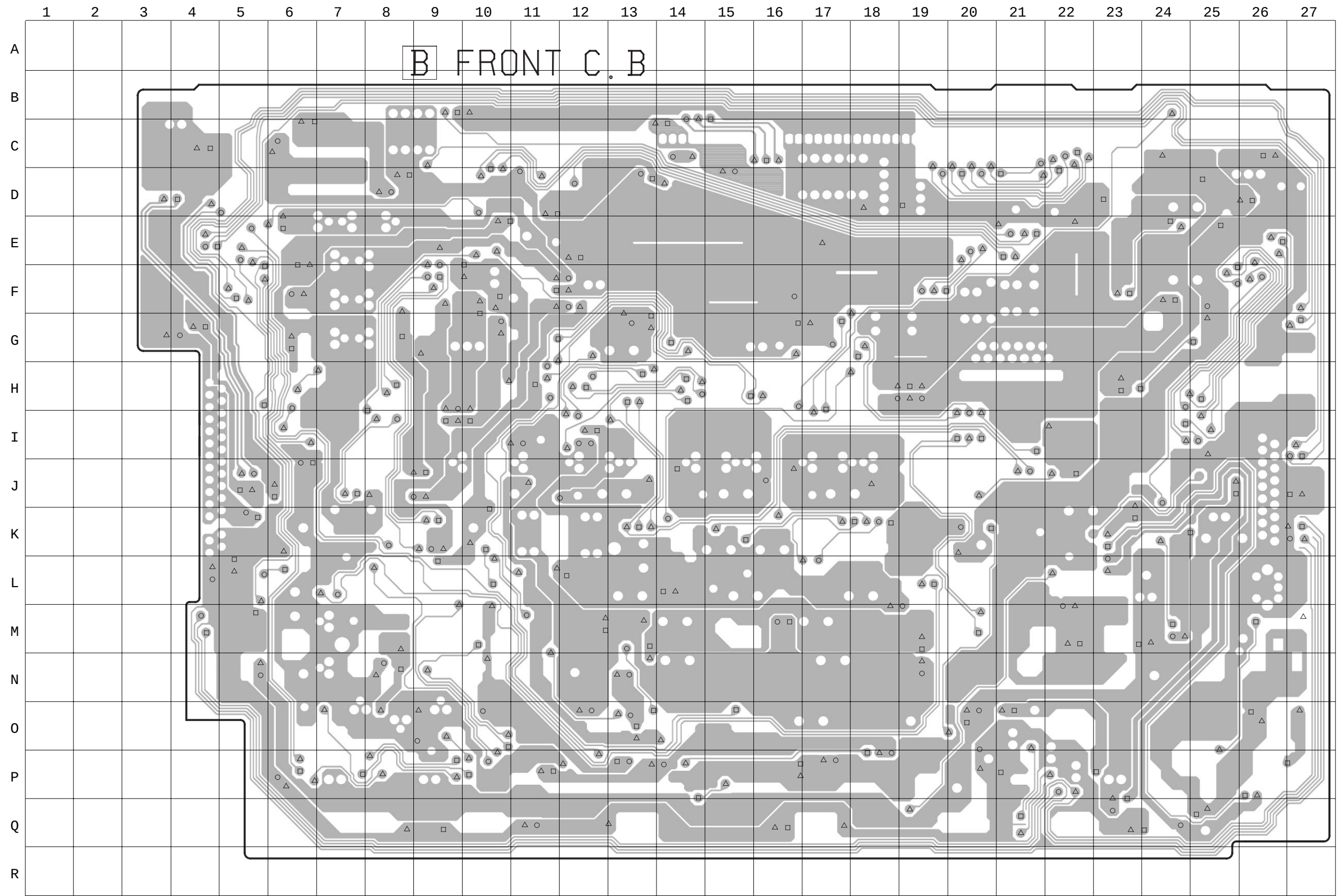




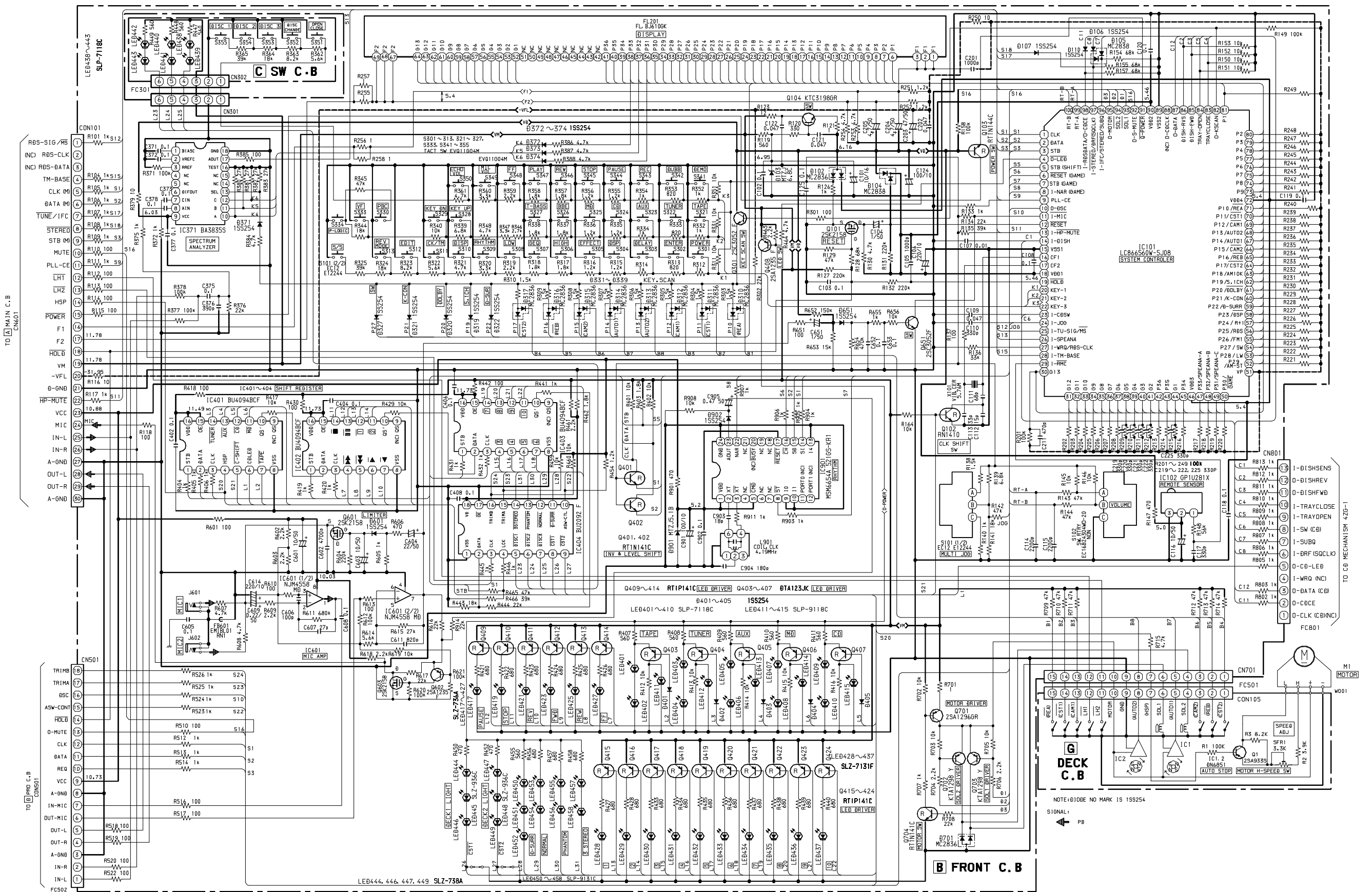
WIRING - 2.1 (FRONT)

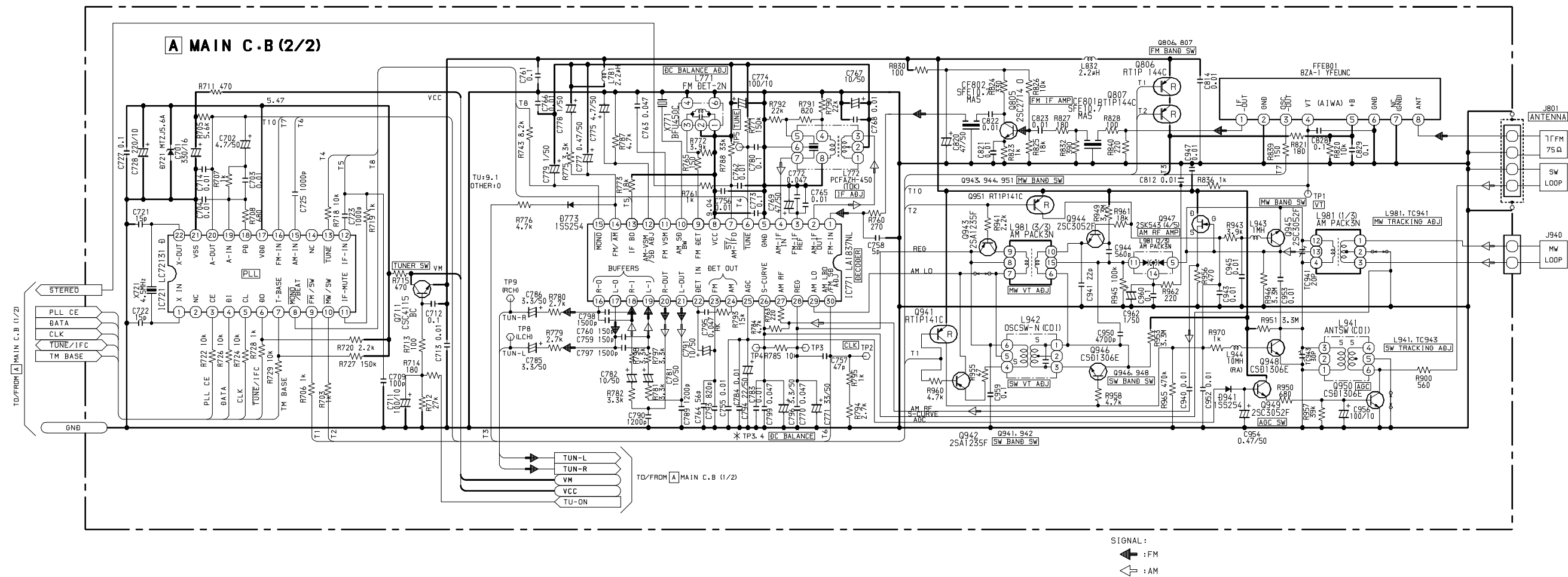


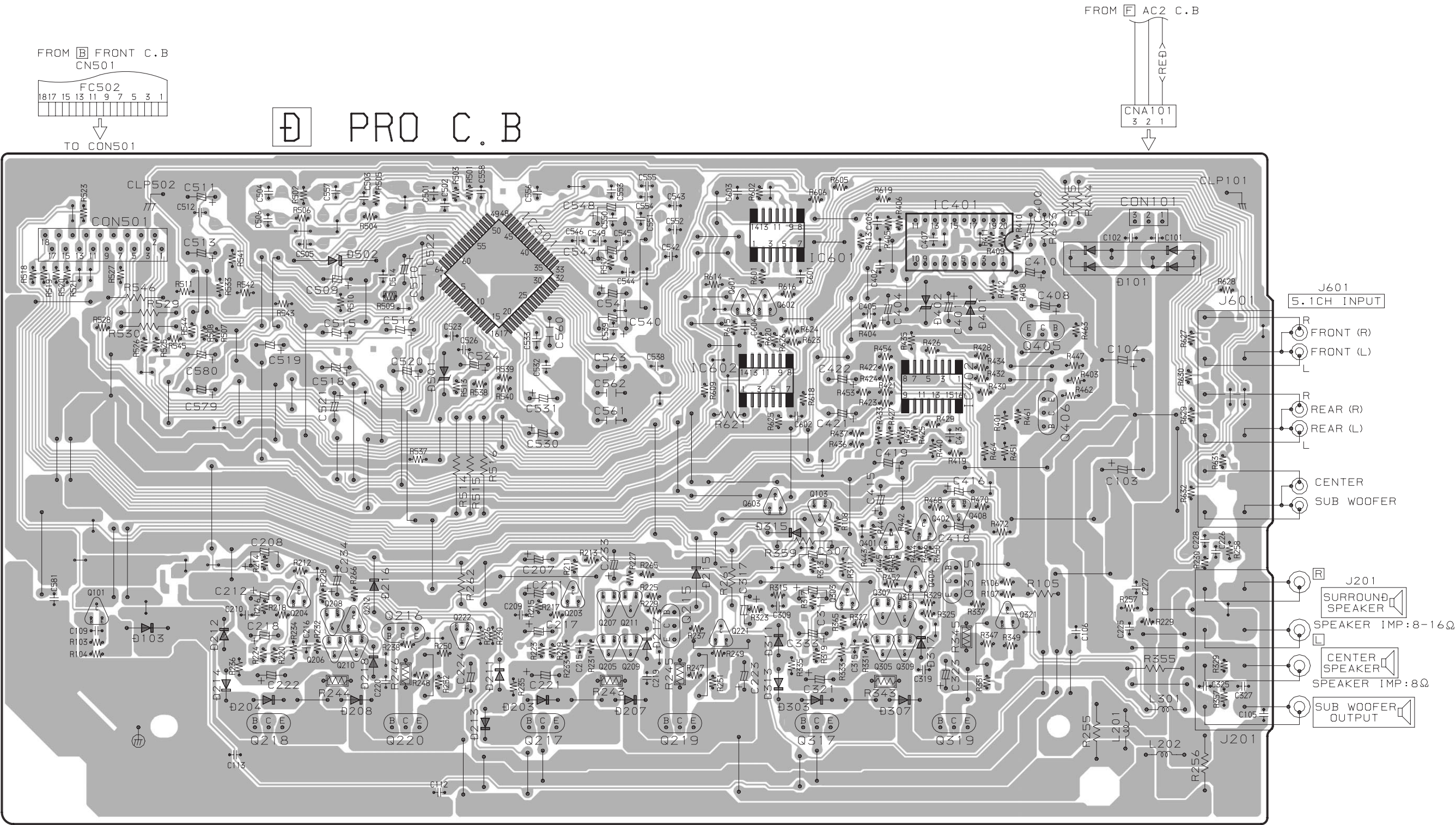
WIRING - 2.2 (FRONT)



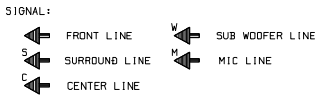
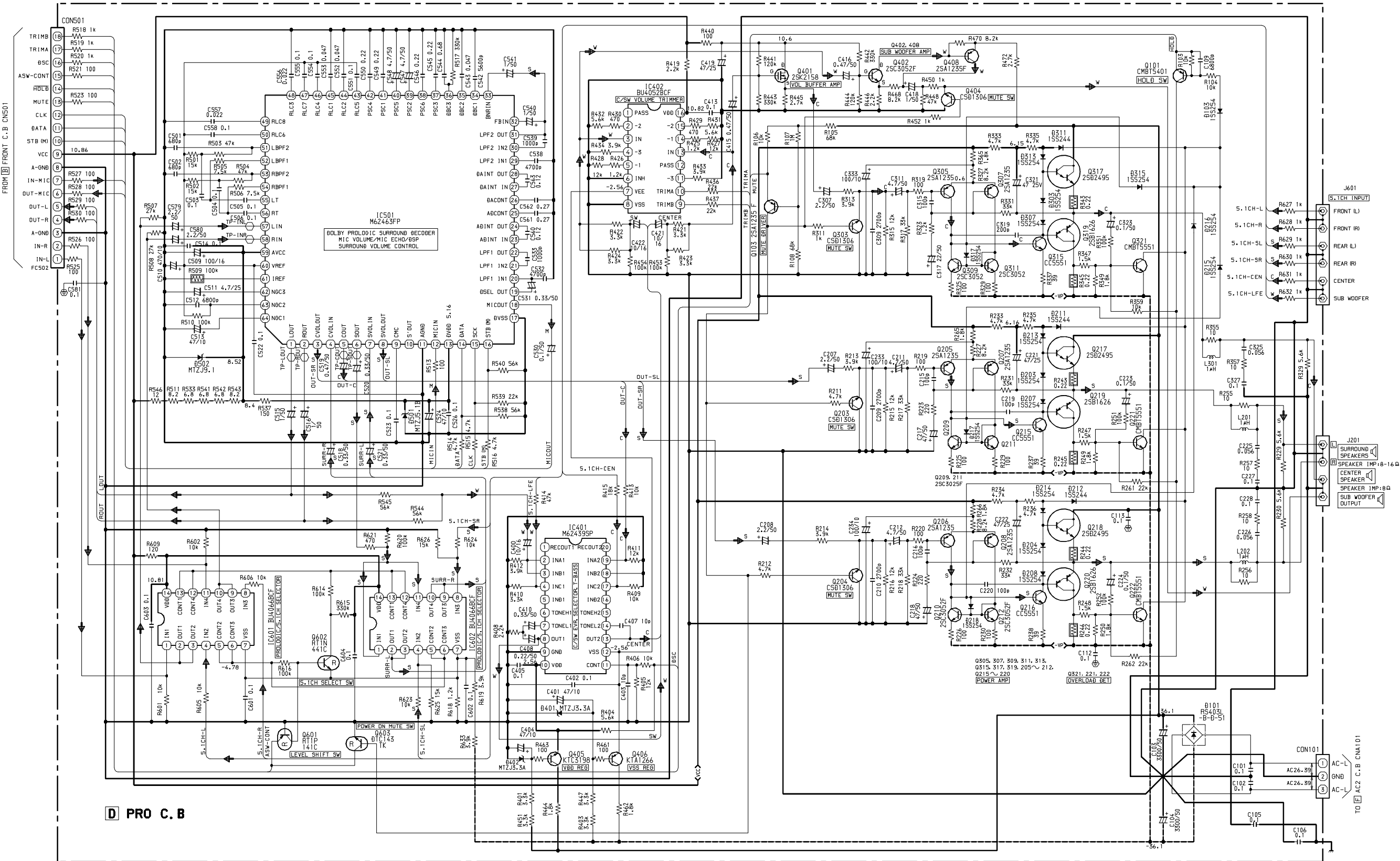
SCHEMATIC DIAGRAM - 2 (FRONT)



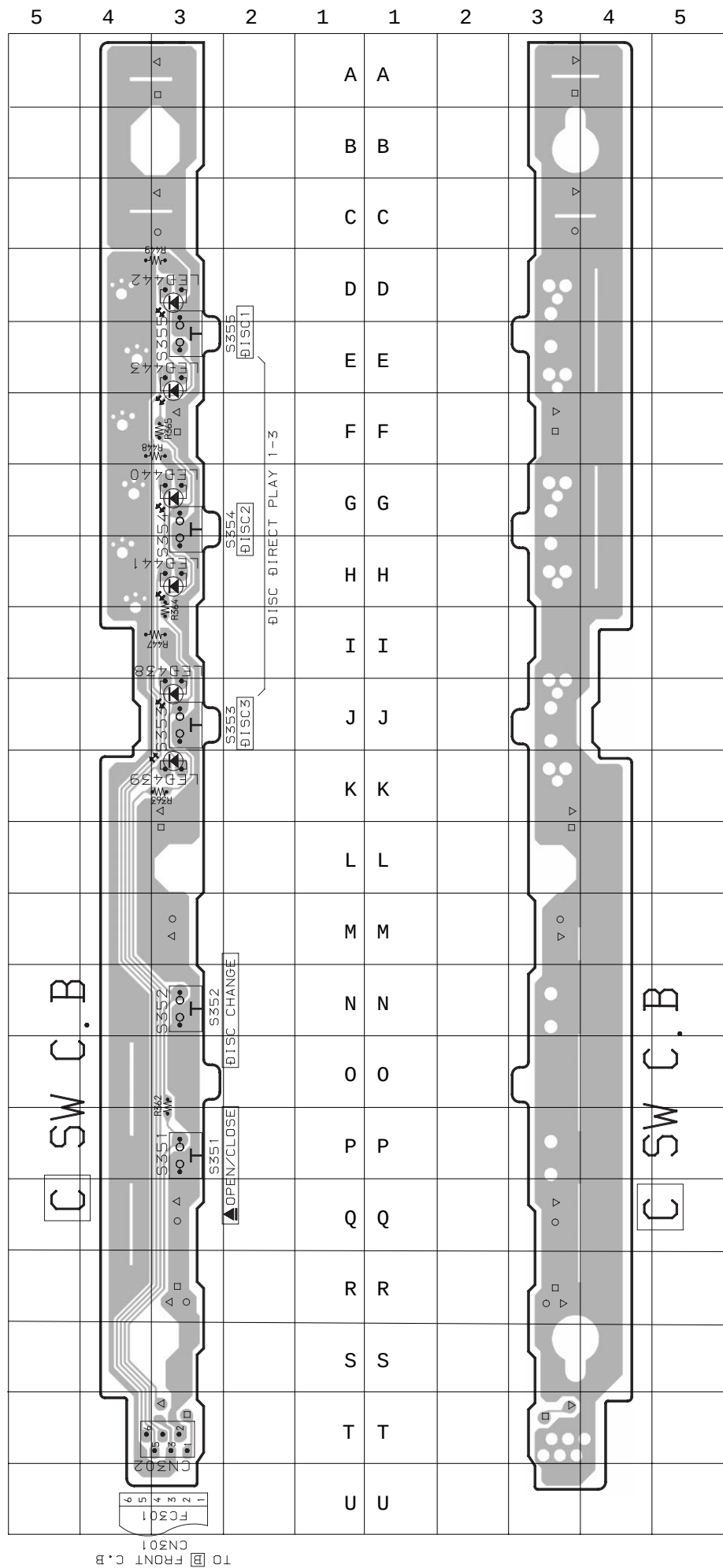




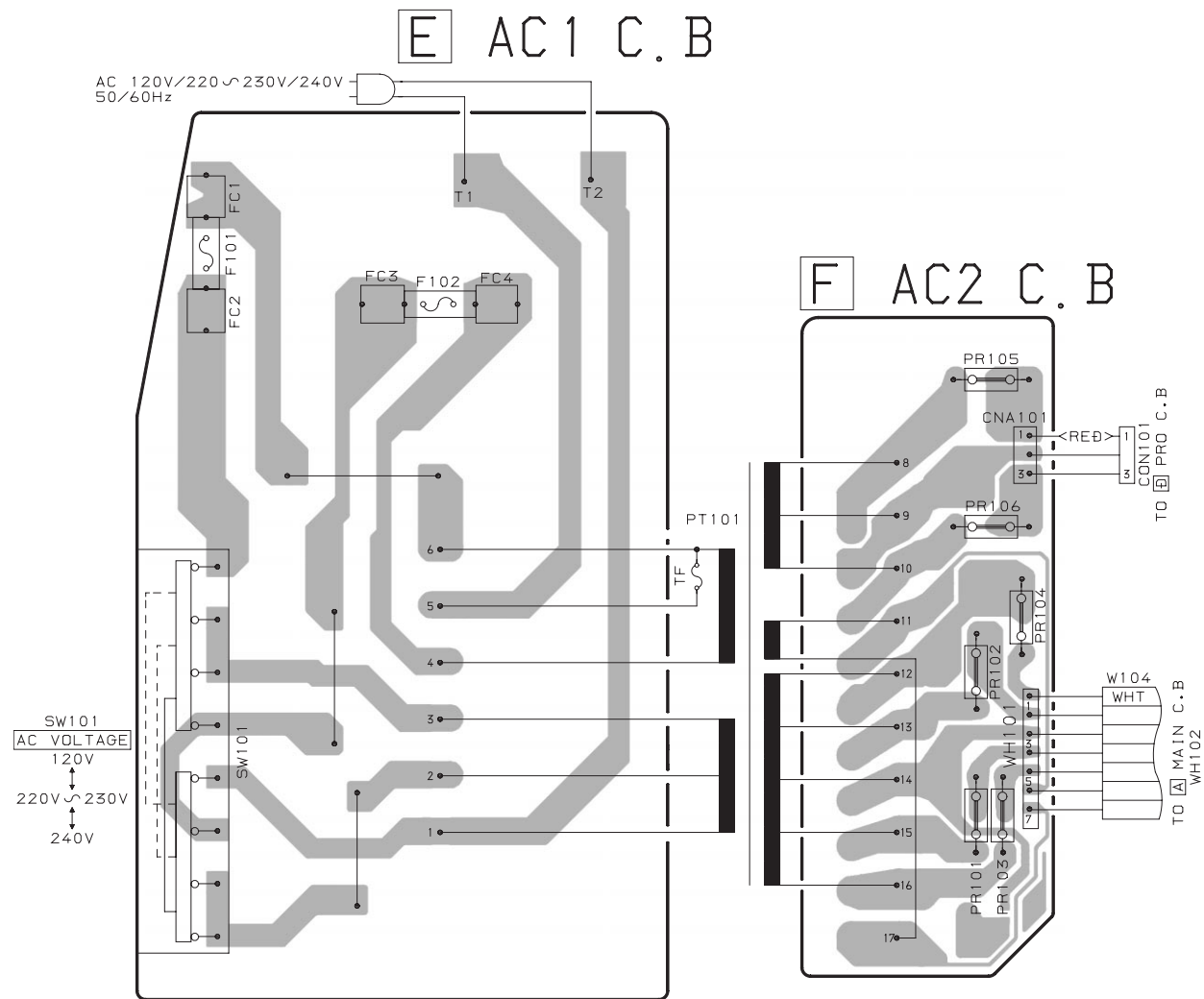
SCHEMATIC DIAGRAM - 4 (PRO)



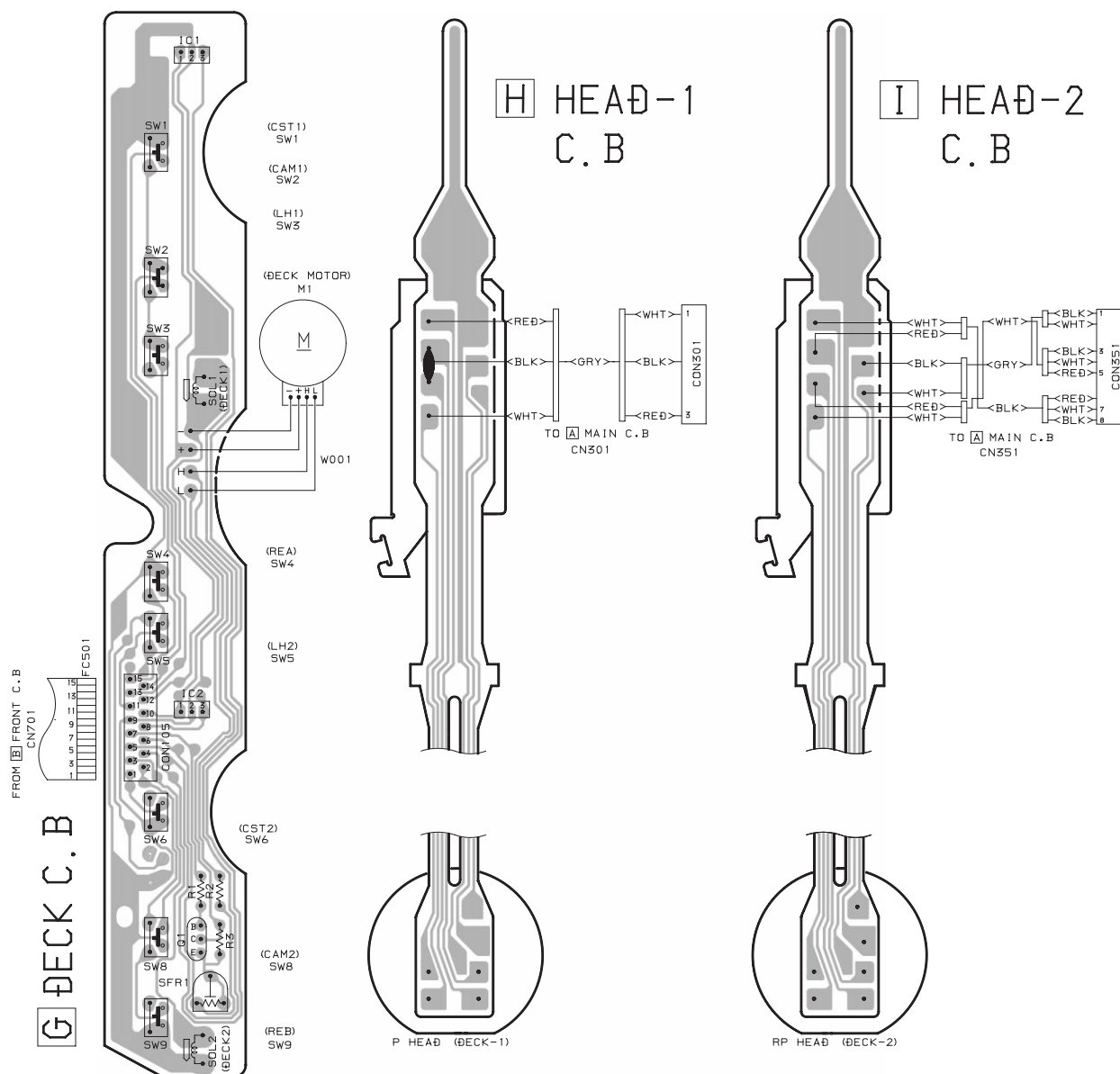
WIRING - 4 (SW)



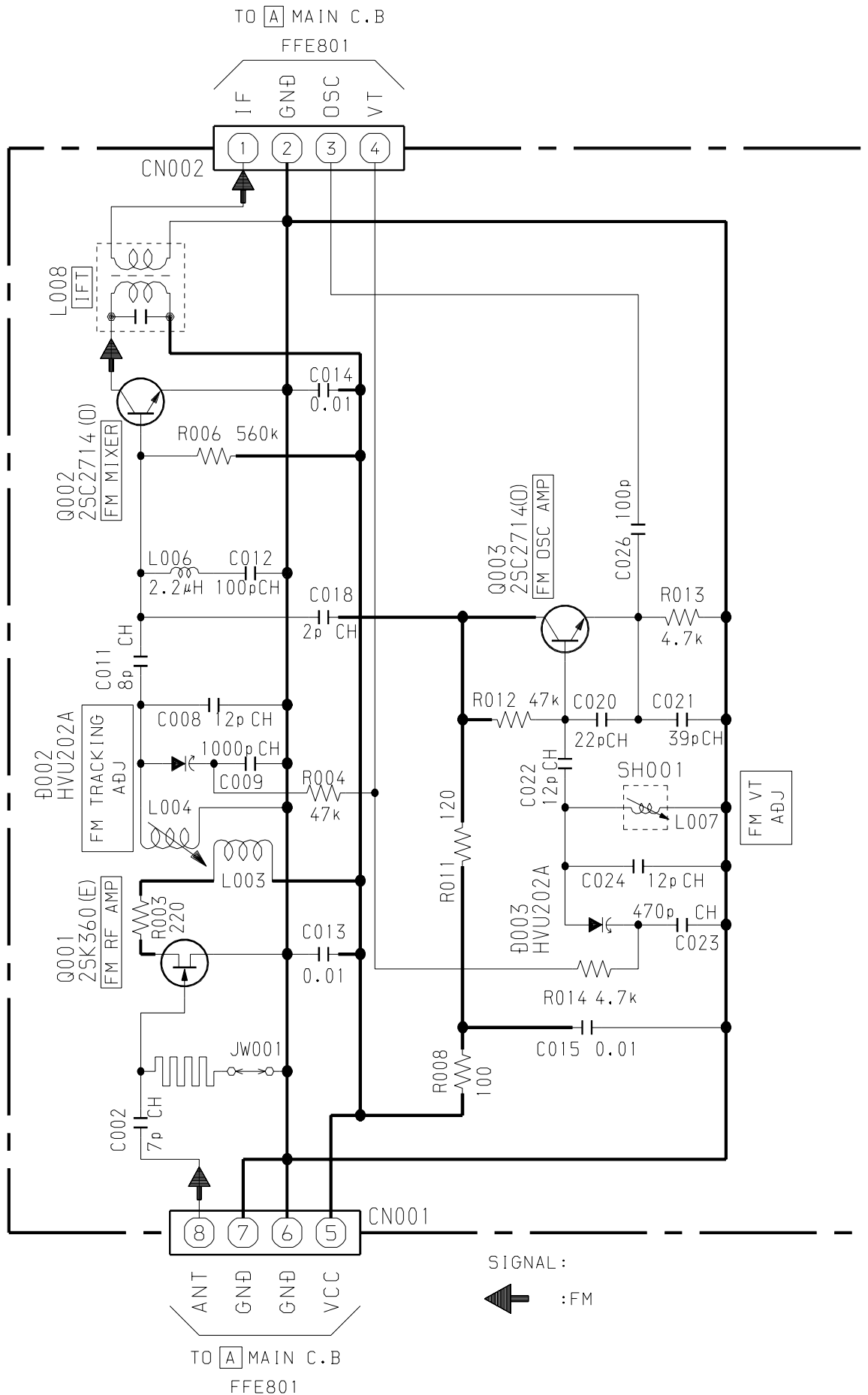
WIRING - 5 (AC1 /AC2)



WIRING - 6 (DECK)

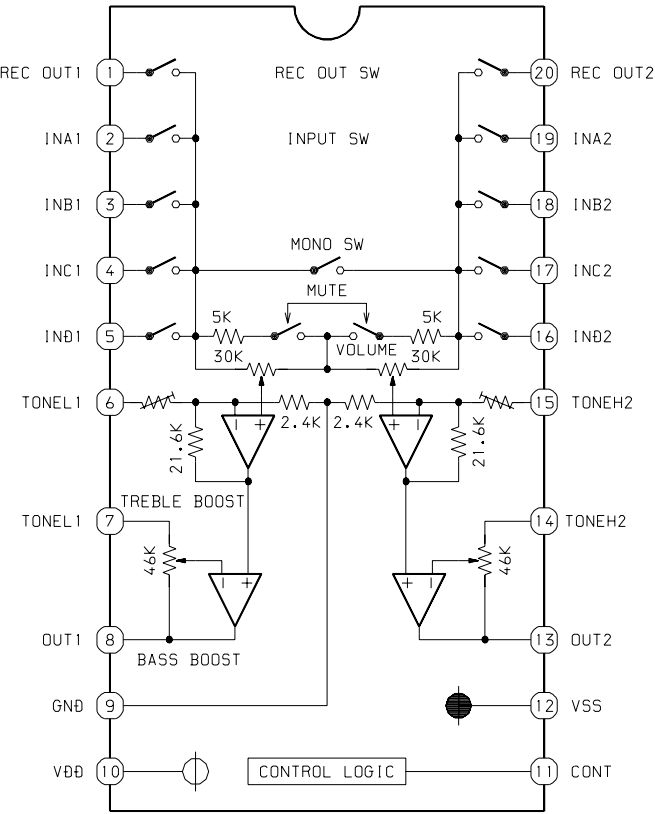


SCHEMATIC DIAGRAM - 5 (TUNER FRONT END)

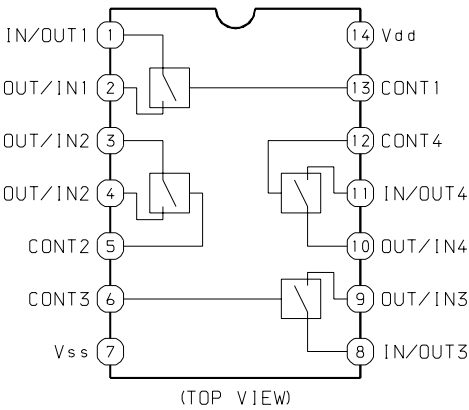


IC BLOCK DIAGRAM

IC M62439SP



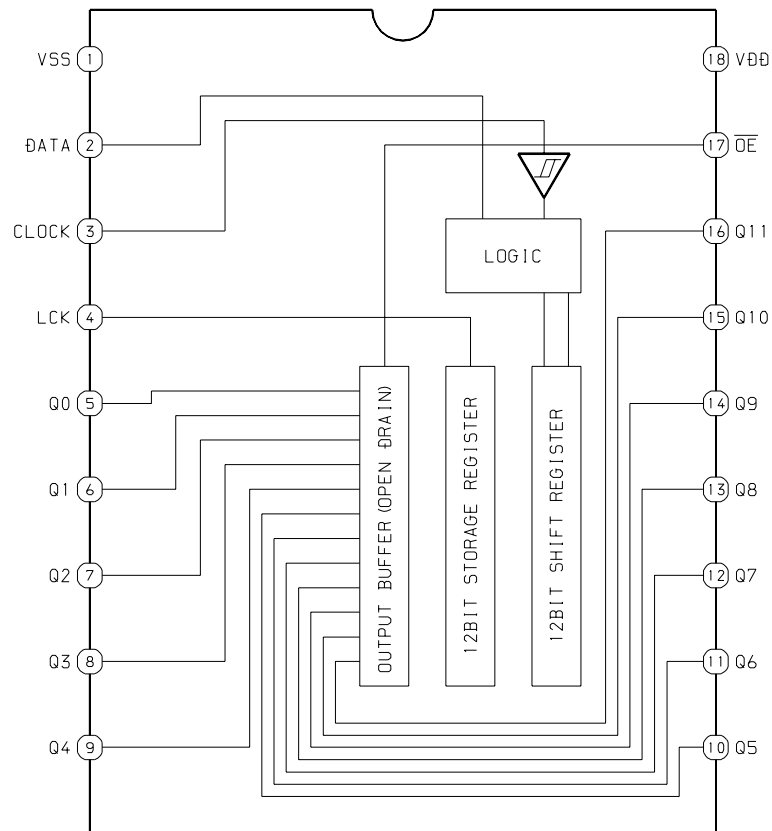
IC BU4066BCF



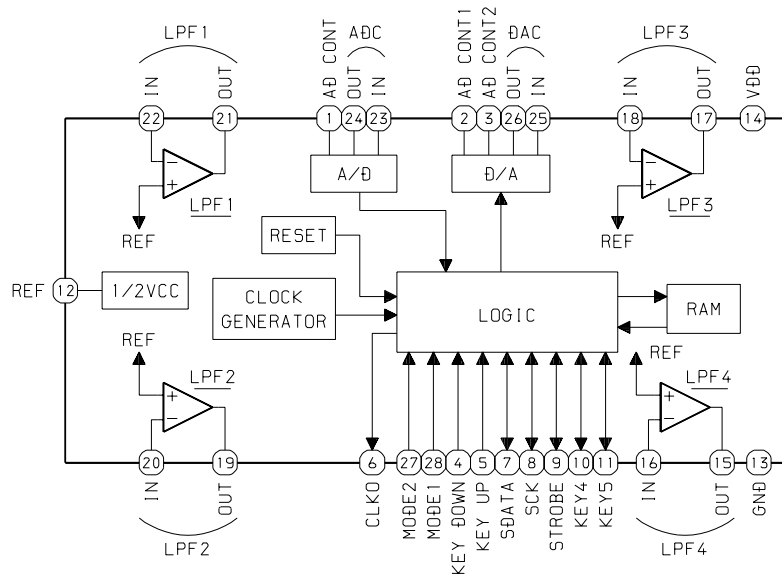
TRUTH TABLE

CONTROL	Impedance Between IN/OUT-OUT/IN
H	$0.5 \sim 5 \times 10^2 \Omega$
L	$> 10^2 \Omega$

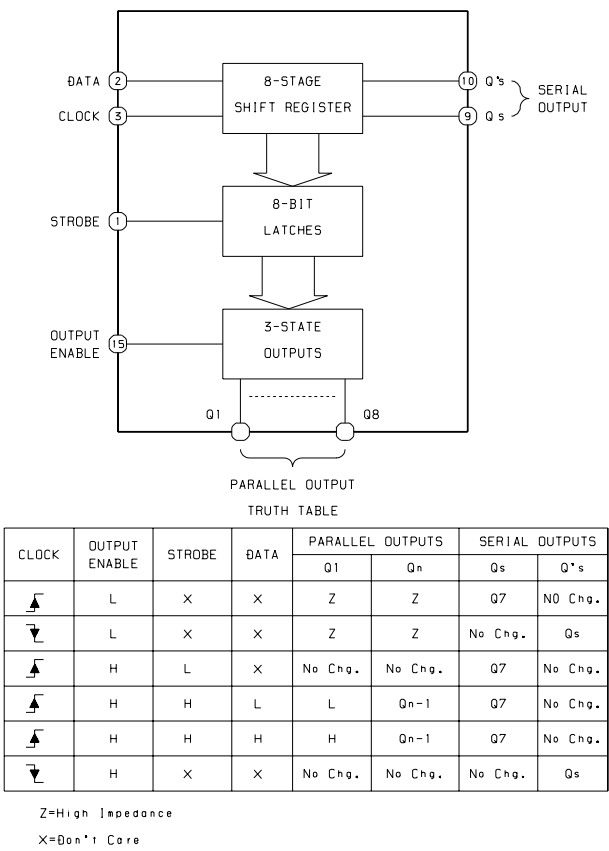
IC BU2092F



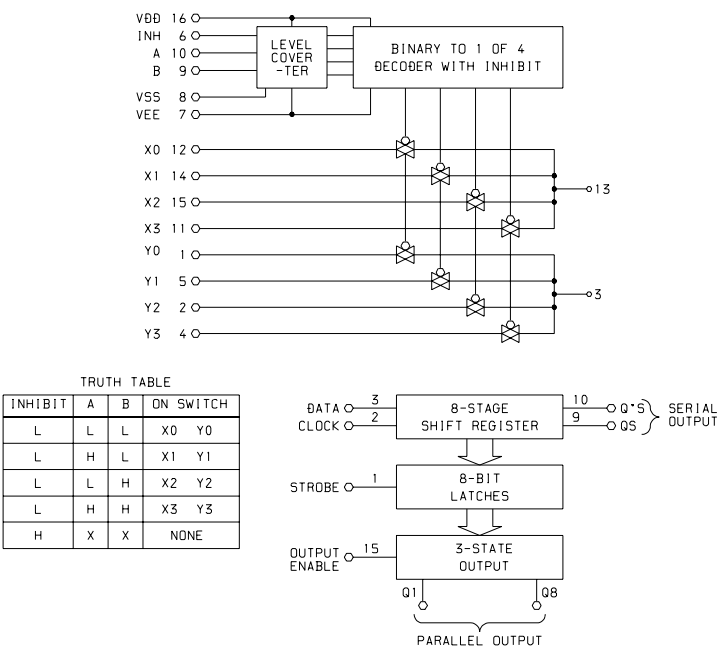
IC M65847AFP



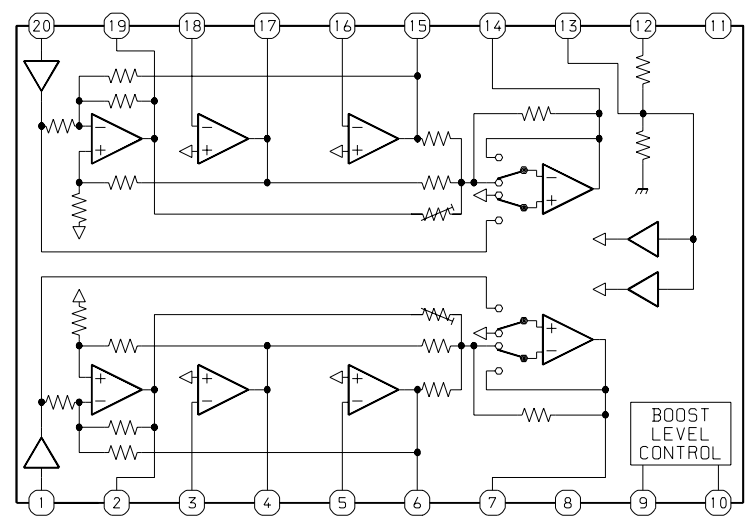
IC BU4094BCF



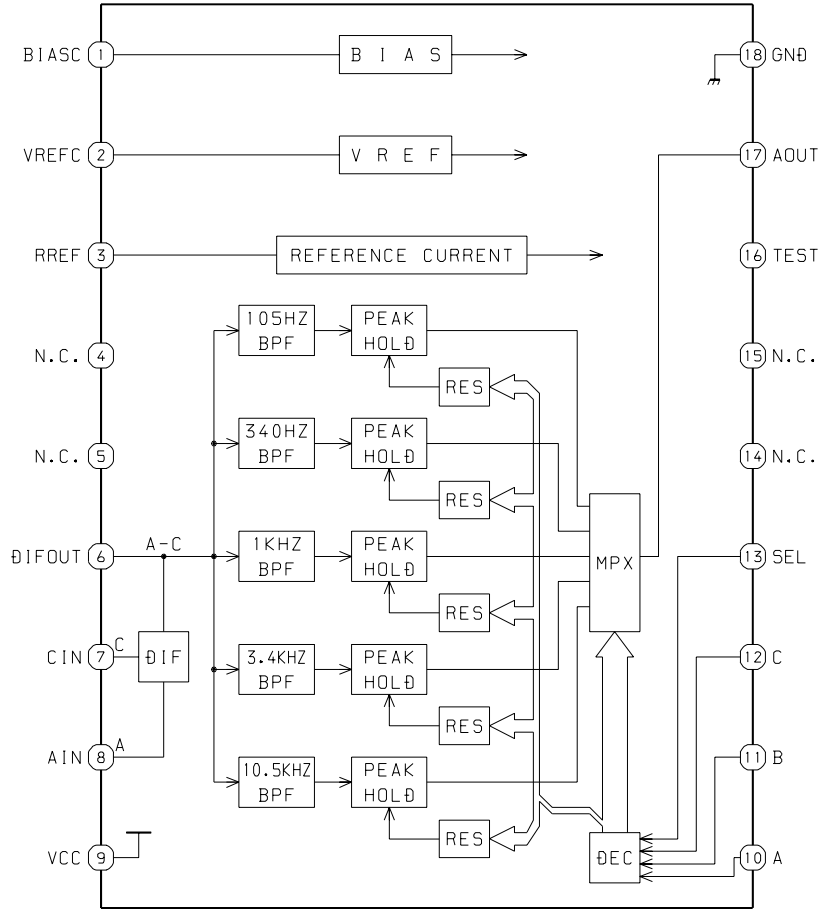
IC BU4052BCF



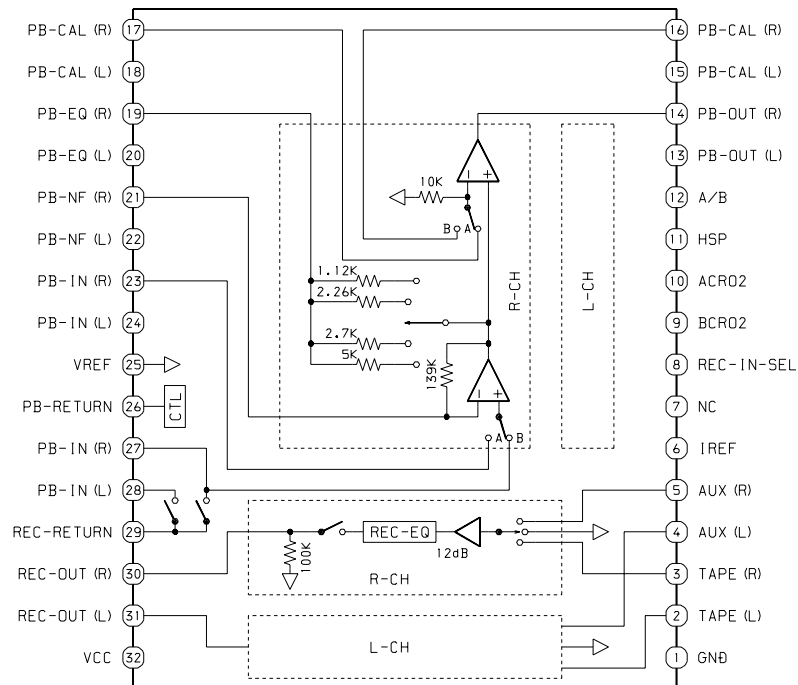
IC NJM2152M



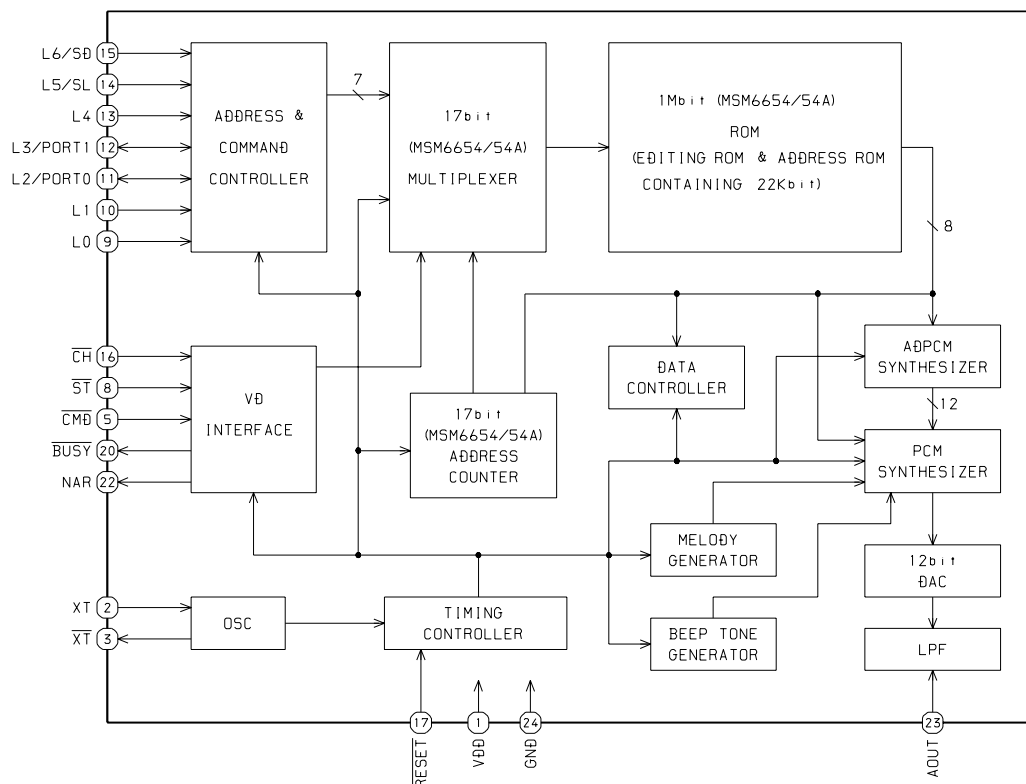
IC BA3835S



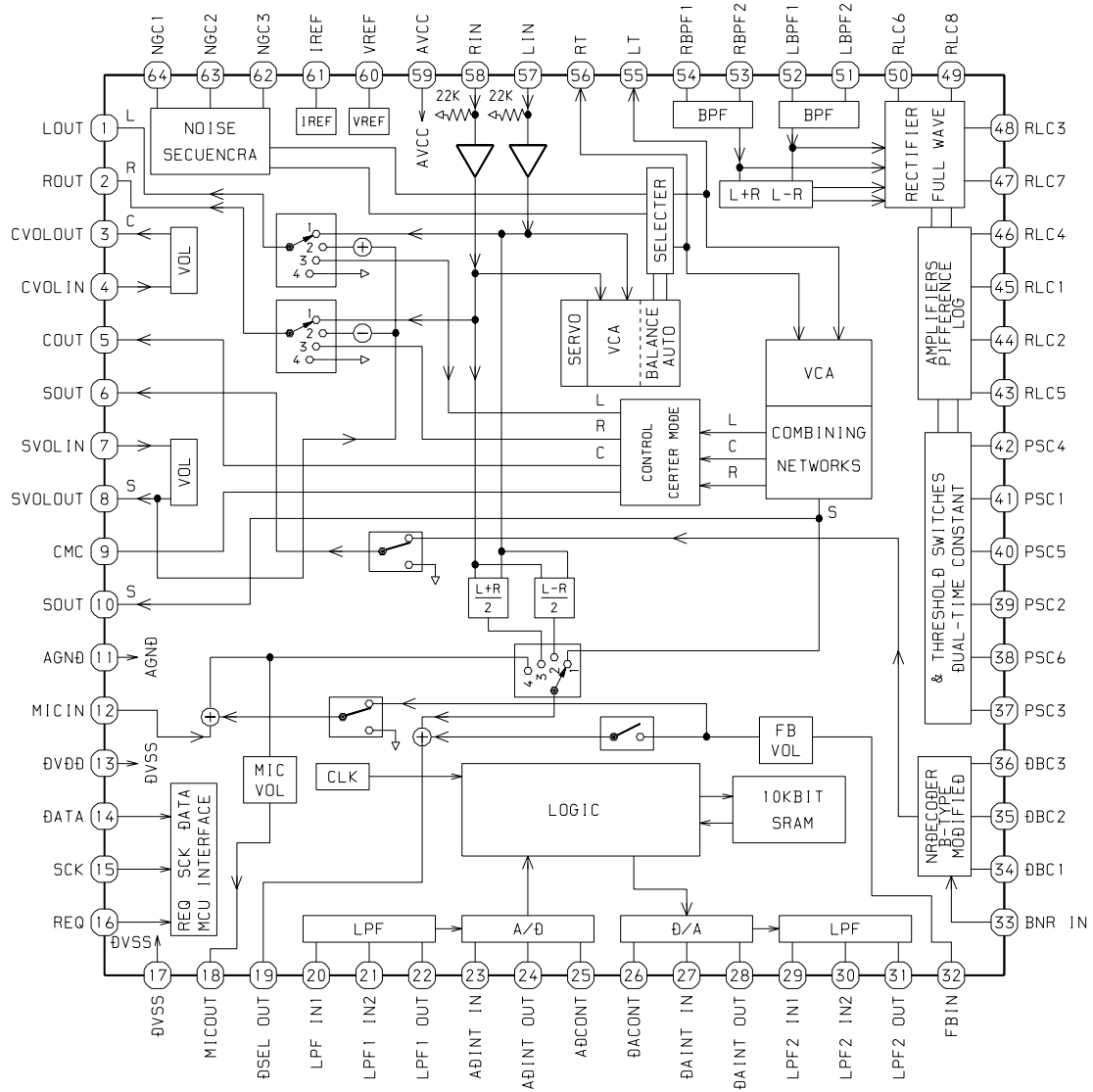
IC BA7762AFS



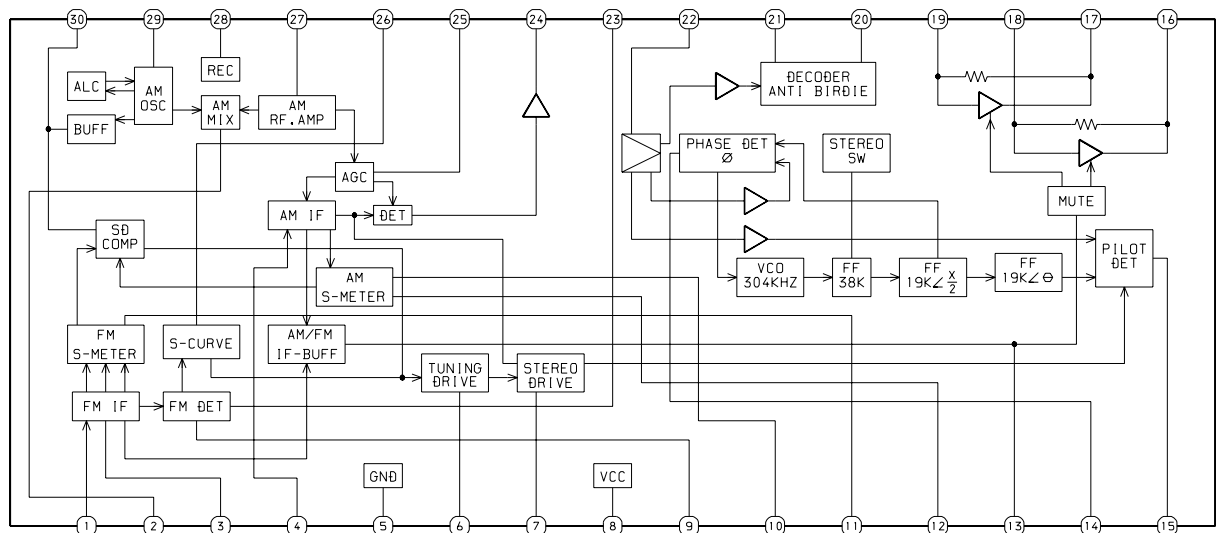
IC MSM6654A-521GS-KR1



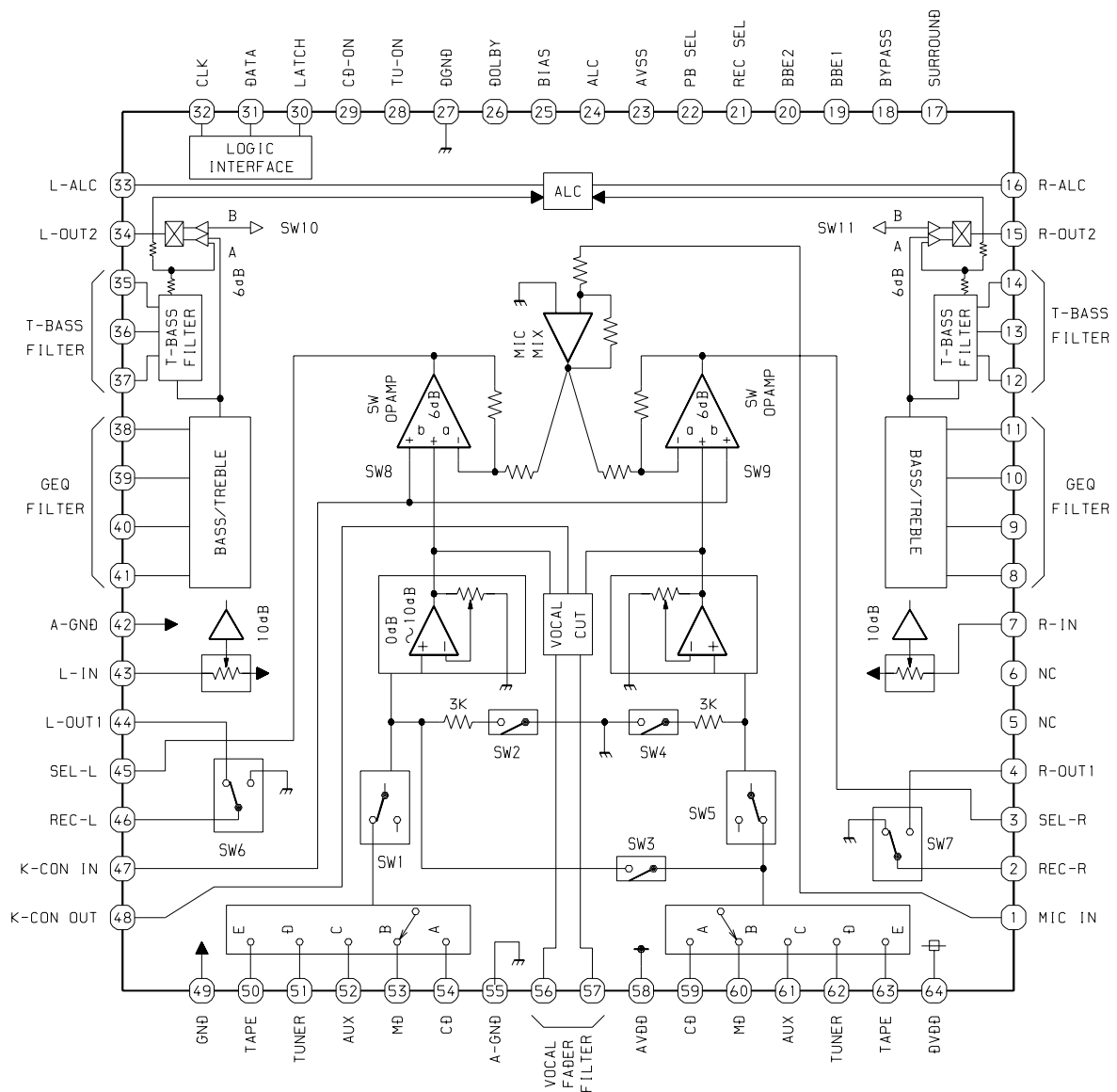
IC M62463FP



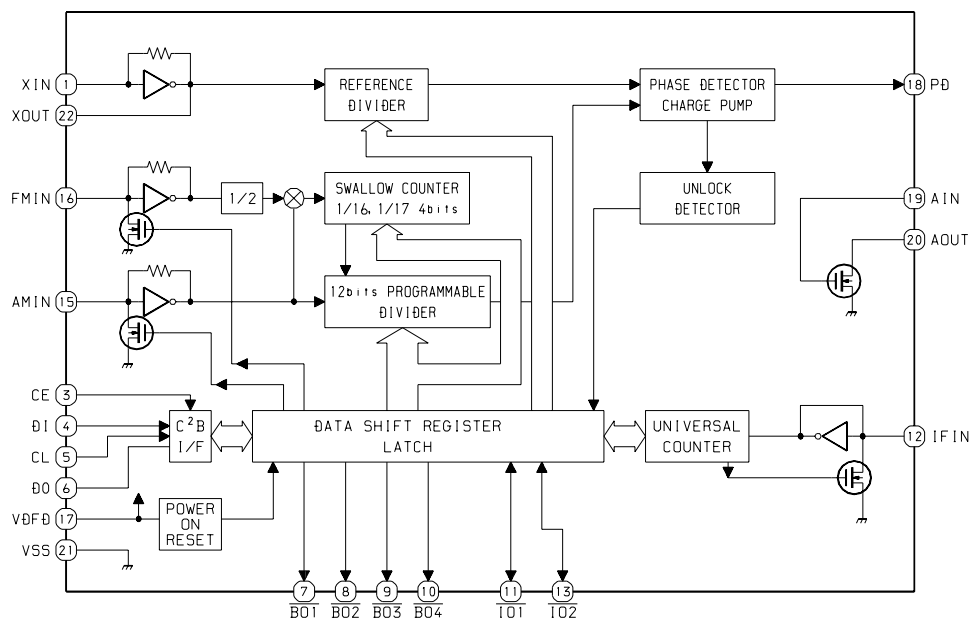
IC LA1837NL



IC M62445FP-600D



IC LC72131D



IC DESCRIPTION

IC, LC866560W-5J08

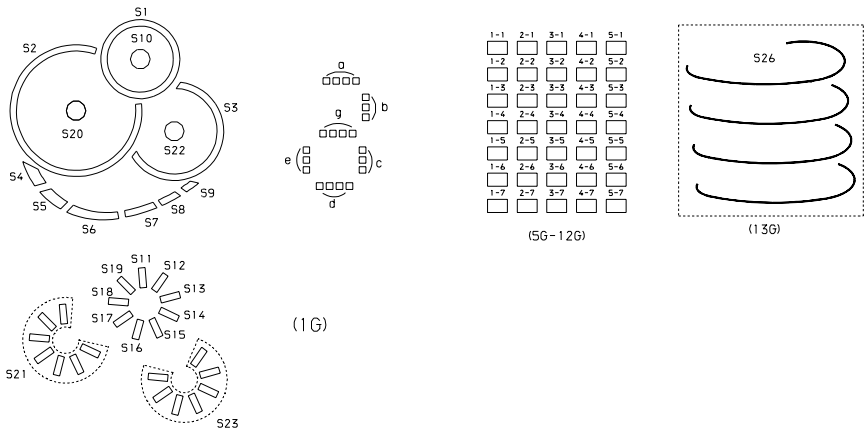
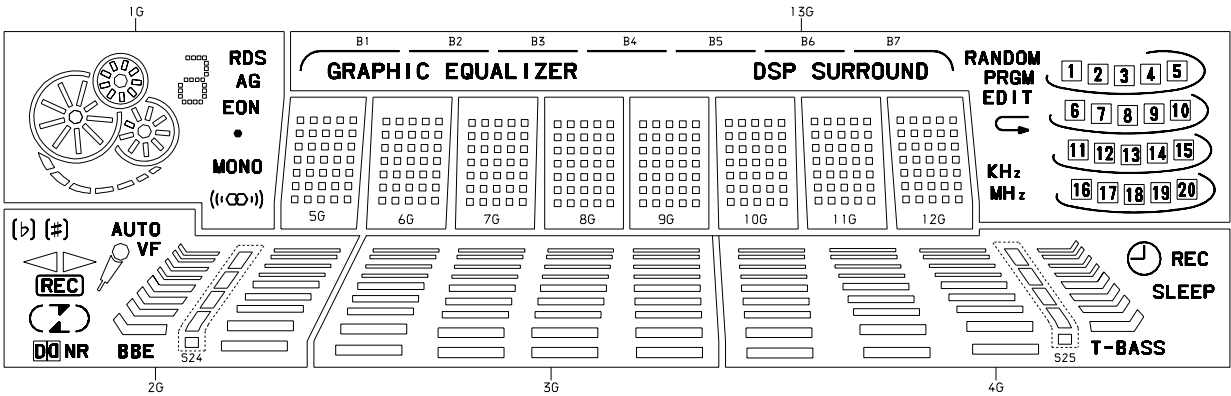
Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	O-LED	O	LED ON/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RESET (GAME)	I	Reset input for Sound IC.
7	STB (GAME)	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, 17	CF 1, 2	—	5.76MHz oscillator circuit.
18	VDD 1	—	Power supply input.
19	HOLD	I	Power failure detection input. "H" normal operation. "L" main power cannot be turned on.
20 ~ 22	KEY-1 ~ 3	I	KEY input.(A/D)
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	P33/SPEANA-A	O	Spectrum analyzer band switching output /FL segment P33 output.
48	P32/SPEANA-B	O	Spectrum analyzer band switching output /FL segment P32 output.
49	P31/SPEANA-C	O	Spectrum analyzer band switching output /FL segment P31 output.
50	P30/GAME	I/O	FL segment P30 output / GAME input diode.
51	VP	—	Power supply input for FL display.
52	P29/AM-ST	O	FL segment P29 output.
53	P28/LW	O	FL segment P28 output.
54	P27/SW	I/O	FL segment P27 output / SW input diode.

Pin No.	Pin Name	I/O	Description
55	P26/FM 1	O	FL segment P26 output.
56	P25/RDS	O	FL segment P25 output.
57	P24/R+1	O	FL segment P24 output.
58	P23/DSP	O	FL segment P23 output.
59	P22/D-SURR	I/O	FL segment P22 output / SURR input diode.
60	P21/K-CON	I/O	FL segment P21 output / K-CON input diode.
61	P20/DOLBY	I/O	FL segment P20 output / DOLBY input diode.
62	P19/5.1CH	I/O	FL segment P19 output / 5.1CH input diode.
63	P18/AM10K	O	FL segment P18 output.
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	O-DATA	O	CD data 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/SUBQ	I	Tune IF count serial data input / CD SUBQ 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.

FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ610GK

GRID ASSIGNMENT



GRID ASSIGNMENT

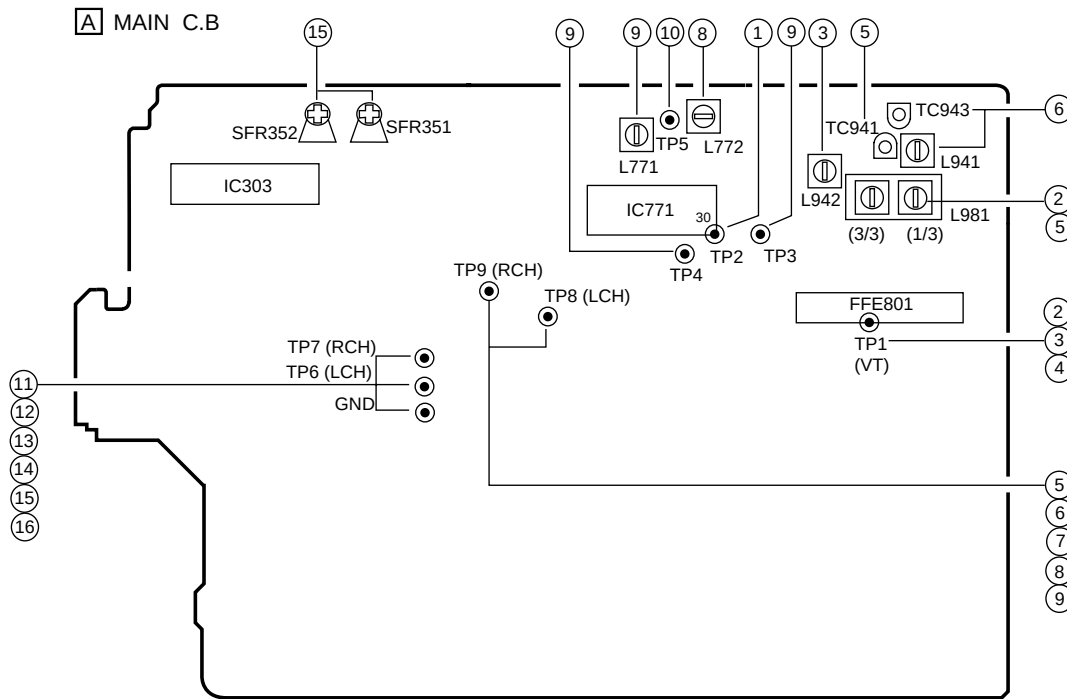


ANODE CONNECTION

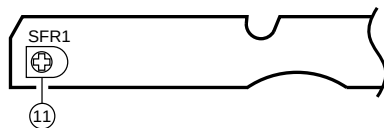
	1G	2G	3G	4G	5G-12G	13G
P1	EON	B9	B45	REC	1-1	DSP SURROUND
P2	AG	DO NR	B36	B72	2-1	GRAPHIC EQUALIZER
P3		BBE	B27	B63	3-1	B7
P4	MONO	S24	B18	B54	4-1	B6
P5		B8	B44		5-1	B5
P6	RDS		B35	B71	1-2	B4
P7	b		B26	B62	2-2	B3
P8	c		B17	B53	3-2	B2
P9	a, d, g	B7	B43	SLEEP	4-2	B1
P10	e	REC	B34	B70	5-2	RANDOM
P11	S1		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	10
P36	—	—	B10	B46	—	5

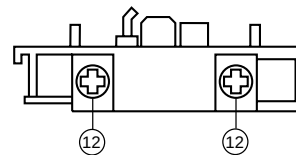
ADJUSTMENT <TUNER / DECK>



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 1602kHz and check that the test point is 2052kHz $\pm$ 45Hz.

2. MW VT Adjustment

Settings : • Test point : TP1 (VT)

• Adjustment location : L981 (3/3)

Method : Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes 7.5V $\pm$ 0.05V. Then check that the test point is more than 0.3V (530kHz).

3. SW VT Adjustment

Settings : • Test point : TP1 (VT)

• Adjustment location : L942

Method : Set to SW 17.9MHz, 5.9MHz and adjust L942 so that the test point becomes 6.0V $\pm$ 0.05V. Then check that the test point is more than 0.3V (5.9MHz).

4. FM VT Check

Settings : • Test point : TP1 (VT)

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

5. MW Tracking Adjustment

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

• Adjustment location :

L981 (1/3) 603kHz

TC941 1404kHz

Method : Set up TC941 to center before adjustment, the level at 603kHz is adjust to maximum by L981 (1/3). Then the level at 1404kHz is adjust to maximum by TC941.

6. SW Tracking Adjustment

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

• Adjustment location :

L941 5.9MHz

TC943 17.9MHz

Method : Set up TC943 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC943.

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 9dB.

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 ± 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 +10/-15dB.
- FM
- Input level : 25dB
• Test point : TP5
- Method : Check auto stop at FM 98.0MHz and the level is 25 dB ± 10 dB.

<DECK SECTION>

11. Tape Speed Adjustment (DECK1, DECK2)
- 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 ± 5Hz. Next, check that the REV speed is ±45Hz with respect to FWD speed.
12. Head Azimuth Adjustment (DECK1, DECK2)
- Settings : • Test tape : TTA–330
• Test point : TP6(Lch), TP7(Rch)
• Adjustment location : Head azimuth adjustment screw
- Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

13. PB Frequency Response Check (DECK1, DECK2)
- Settings : • Test tape : TTA–330
• Test point : TP6(Lch), TP7(Rch)
- Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.
14. PB Sensitivity Check (DECK1, DECK2)
- Settings : • Test tape : TTA–200
• Test point : TP6(Lch), TP7(Rch)
- Method : Play back the test tape and check that the output level of the test point is 120mV ± 3dB.
15. REC/PB Frequency Response Adjustment (DECK2)
- 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 (-20VU) -36.5dBV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.
16. REC/PB Sensitivity Check (DECK2)
- Settings : • Test tape : TTA–602
• 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 0VU (-16.5dBV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

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]
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 ± 10dB [at 98.0MHz]
- Stereo separation : More than 30dB [at 98.0MHz]
- Intermediate frequency : 10.7MHz

<MW SECTION>

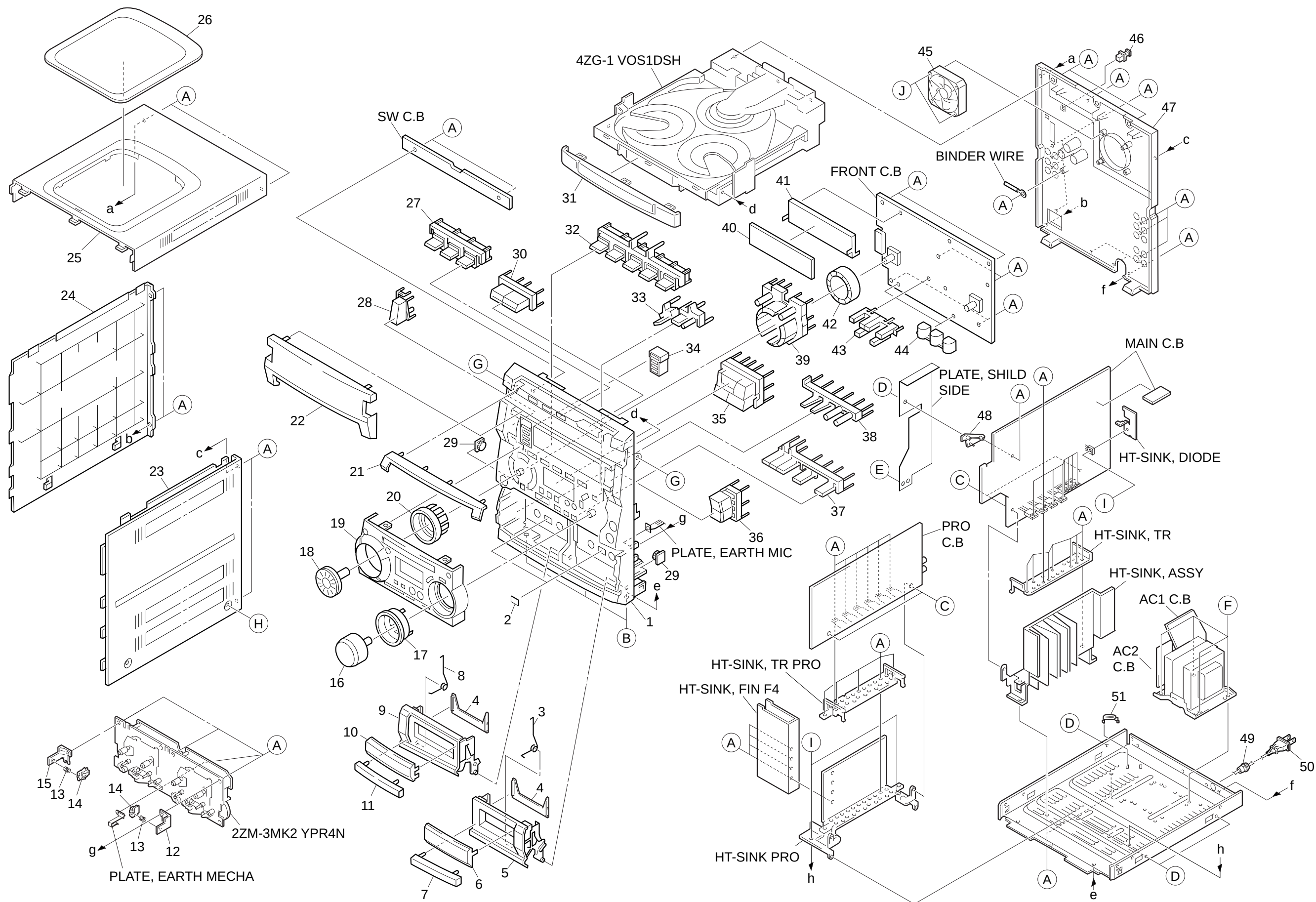
- Sensitivity : Less than 60dB [at 603kHz]
Less than 58dB [at 999kHz]
Less than 58dB [at 1404kHz]
More than 36dB [at 999kHz]
- Signal to noise ratio : More than 36dB [at 999kHz]
- Distortion : Less than 1.5% [at 999kHz]
- Auto stop level : 52dB +10/-15dB [at 999kHz]
- Intermediate frequency : 450kHz

<SW SECTION>

- Sensitivity : Less than 51dB [at 5.9MHz]
Less than 45dB [at 12.0 MHz]
Less than 44dB [at 17.9MHz]
- Overload signal Distortion : Less than 10.0% [at 12.0MHz]
- Intermediate frequency : 450kHz

<DECK SECTION>

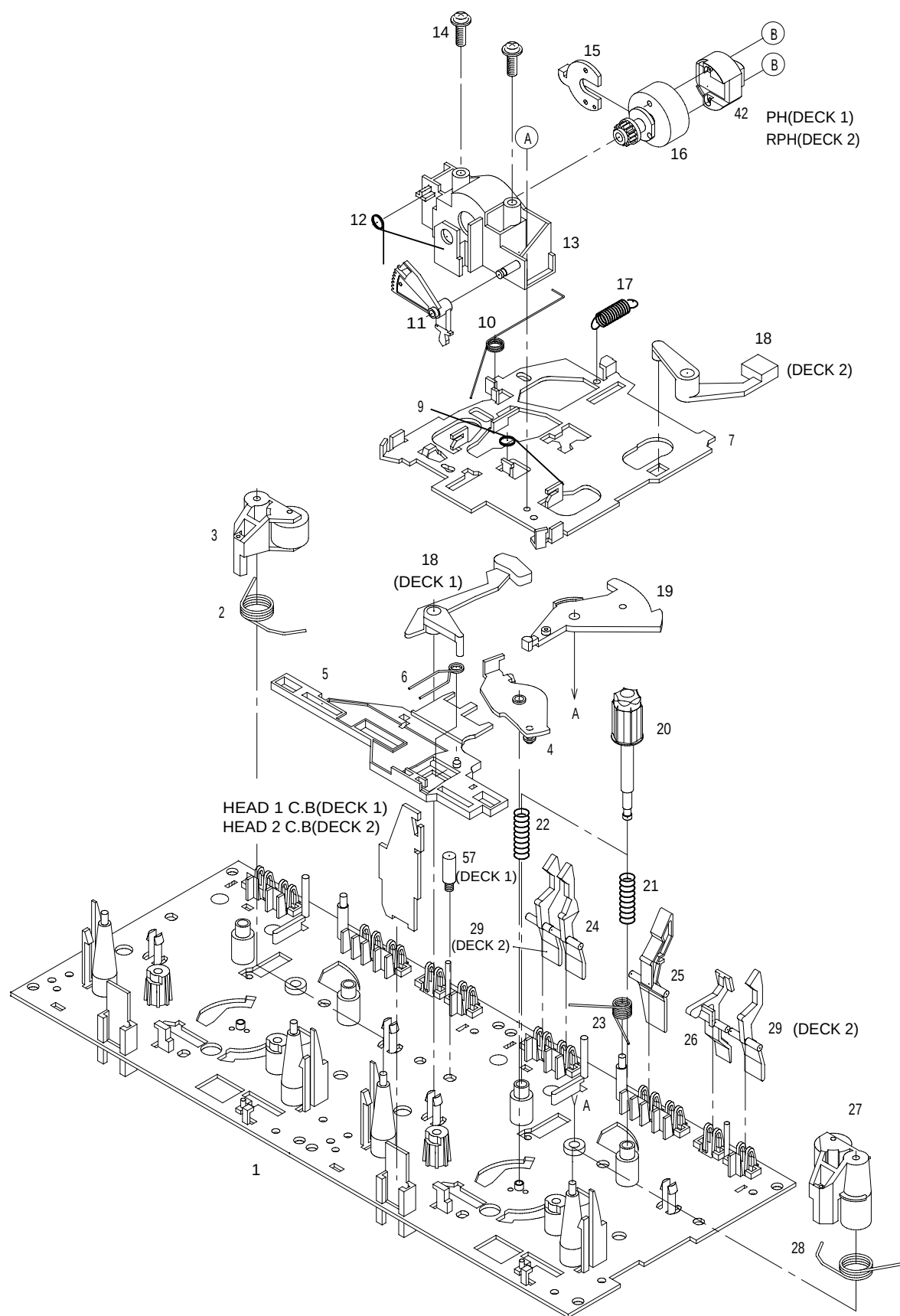
- Tape speed : 3000Hz ± 45Hz
- Wow & flutter : Less than 0.21% (W.R.M.S)
- Take-up torque : 30 ~ 55g-cm (FWD, REV)
- F.F & REW torque : 75 ~ 160g-cm
- Back tension : 2 ~ 7g-cm (FWD, REV)
- PB output level : 300mV ± 3.0dB (SP OUT 2V)
- REC/PB output level : 0dB ± 3.0dB (SP OUT 2V,NORM)
- Distortion (REC/PB) : Less than 2.0% (NORM)
- 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–100
TTA–200
TTA–602 (NORMAL)



MECHANICAL PARTS LIST

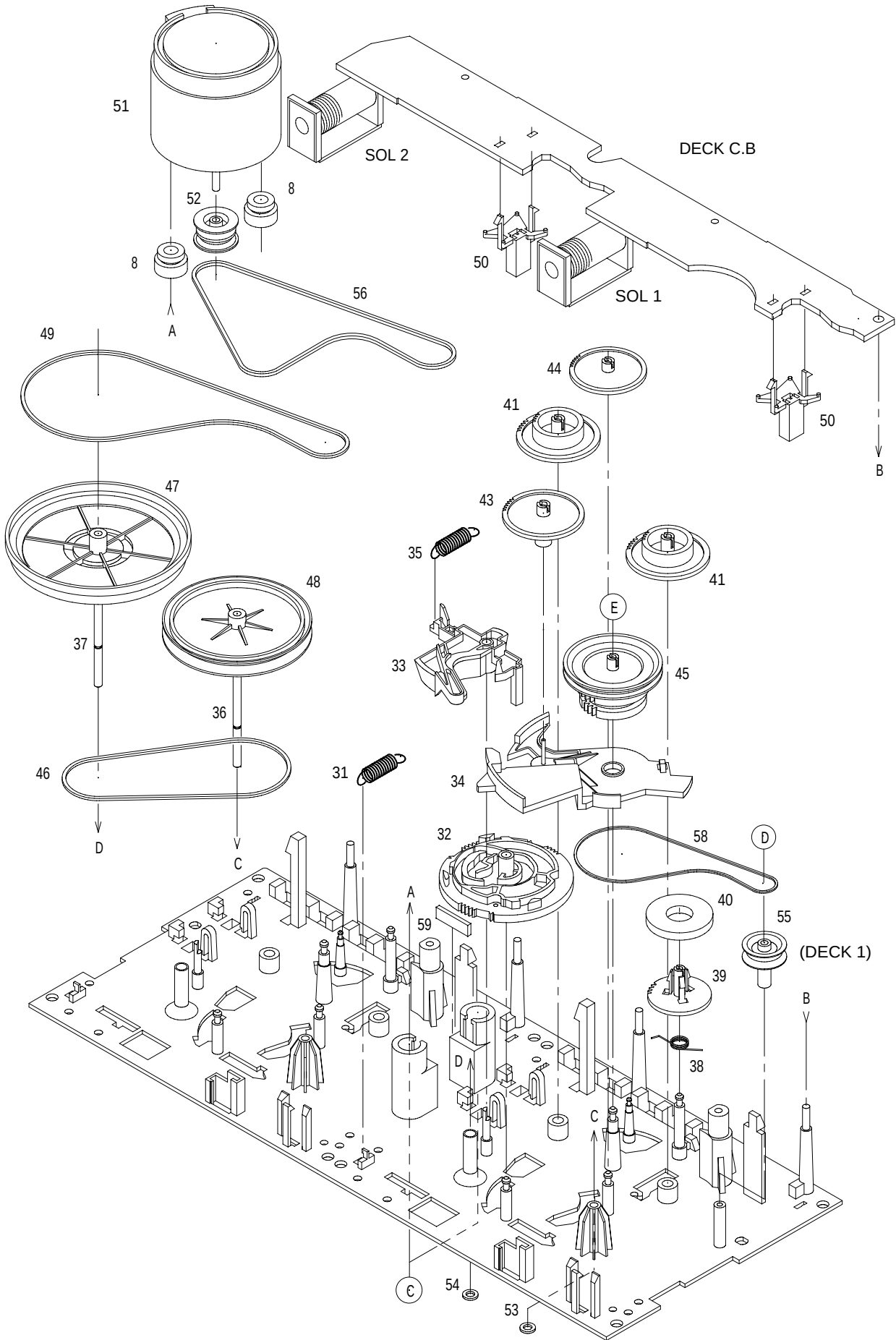
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF6-018-210		CABI,FR H	36	88-NF6-027-010		KEY,BBE
2	81-532-080-010		LABEL, CASS. COMPT	37	88-NHT-004-010		KEY,PBC H26
3	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	38	88-NF6-037-010		KEY,REC
4	86-NF6-061-010		REFLECTOR,CASS	39	88-NF6-029-110		KEY,JOG
5	88-NF6-004-010		BOX,CASS 2	40	88-NF6-611-010		FL,BJ610GK
6	88-NF6-014-010		WINDOW,CASS 2	41	88-NF6-205-010		GUIDE,FL 40-150- 9
7	88-NF6-009-010		PLATE,CASS 2	42	88-NF6-203-010		GUIDE,LED JOG
8	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	43	88-NF6-204-110		GUIDE,LED OPE
9	88-NF6-003-010		BOX,CASS 1	44	87-NF5-210-010		GUIDE,LED
10	88-NF6-013-010		WINDOW,CASS 1	45	87-A90-796-010		FAN,F614R-12MC-19
11	88-NF6-008-010		PLATE,CASS 1	46	84-ZG1-245-210		CAP,OPTICAL
12	87-NF4-217-010		HLDR,LOCK 2	47	88-NHT-001-010		CABI,REAR HCST 772
13	86-NF9-224-010		SPR-C,LOCK	48	88-NF5-208-010		HLDR,PWB-M N
14	82-NF5-229-010		PLATE,LOCK	49	87-085-185-010		BUSHING, AC CORD (E)
15	87-NF4-216-010		HLDR,LOCK 1	50	87-A80-083-010		AC CORD,HC BLK
16	88-NF6-015-110		KNOB,RTRY VOL	51	87-NF4-221-010		HLDR,CABLE
17	88-NF6-017-010		RING,VOL	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
18	88-NF6-016-110		KNOB,RTRY JOG	B	87-067-688-010		BVTT+3-6
19	88-NHT-003-010		PANEL,FR H 772	C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
20	88-NF6-050-010		REFLECTOR,JOG	D	87-721-096-410		QT2+3-10 GLD
21	88-NF6-007-010		PANEL,CD	E	87-591-094-410		TAPPING SCREW, QIT+3-6
22	88-NHT-002-010		WINDOW,DISPLAY H 772	F	87-078-019-010		S-SCREW,IT+4-6
23	88-NF8-047-010		PANEL,RIGHT 2	G	87-721-097-410		QT2+3-12 GLD
24	87-NB8-005-010		PANEL,LEFT	H	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
25	87-NF6-021-010		PANEL,TOP	I	87-067-579-010		TAPPING SCREW, BVT2+3-8
26	86-NF6-007-010		WINDOW,TOP	J	87-B10-190-010		BVT2+3-22 W/O SLOT
27	88-NF6-021-010		KEY,ASSY DISC				
28	88-NF6-026-010		KEY,POWER				
29	87-NF8-220-010		DMPR,150				
30	88-NF6-025-010		KEY,OPEN				
31	88-NH6-004-010		PANEL,TRAY H6				
32	88-NF6-030-010		KEY,ASSY FUN				
33	88-NF6-036-010		KEY,MIC				
34	88-NFT-201-010		GUIDE,LED PRLGC				
35	88-NH6-012-010		KEY,ASSY OPE H6				

TAPE MECHANISM EXPLODED VIEW 1 / 1

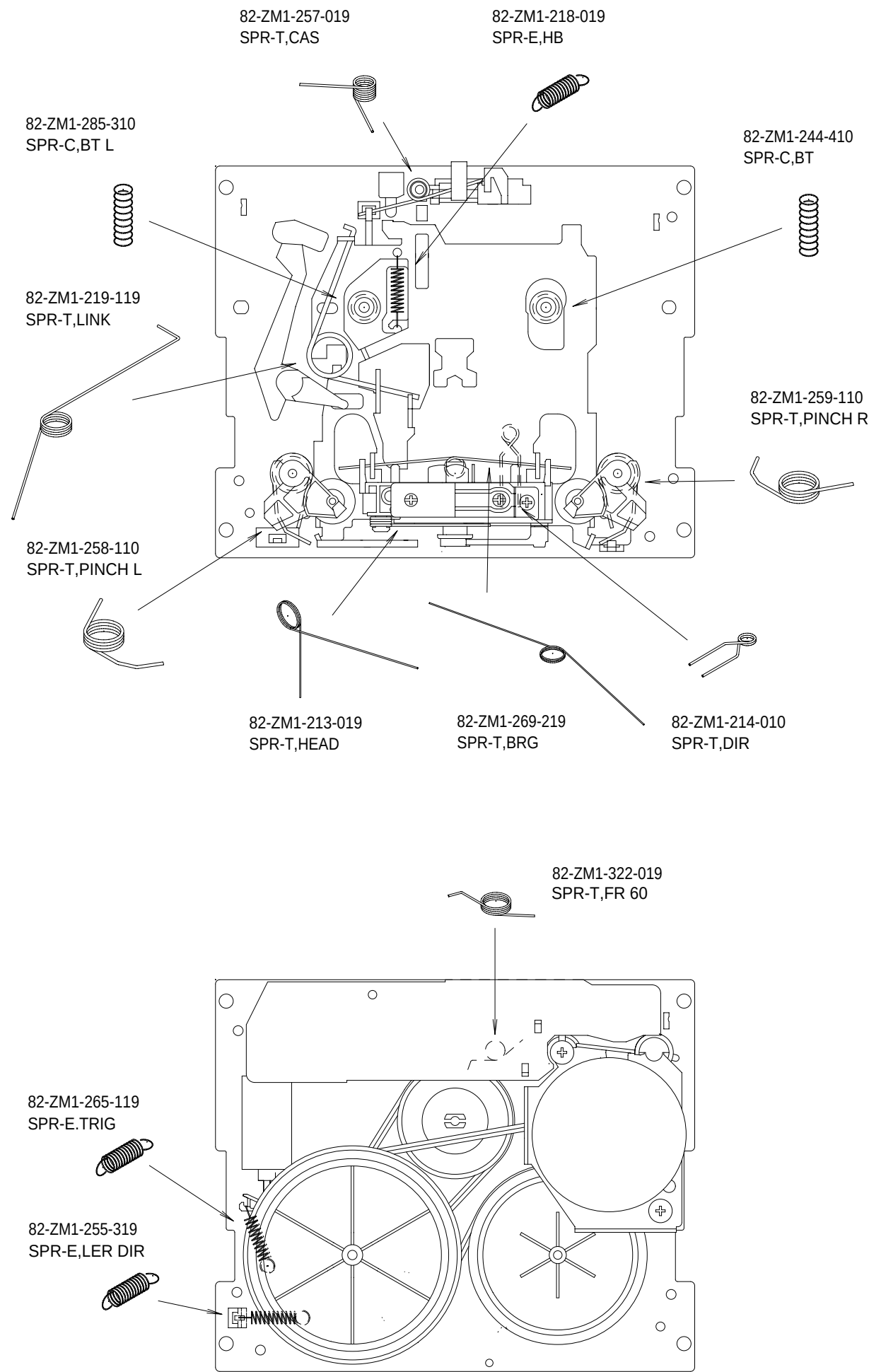


TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		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-ZM6-202-010		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				

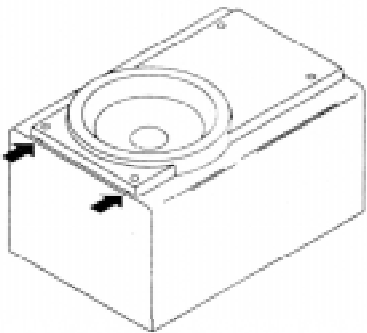


SPRING APPLICATION POSITION

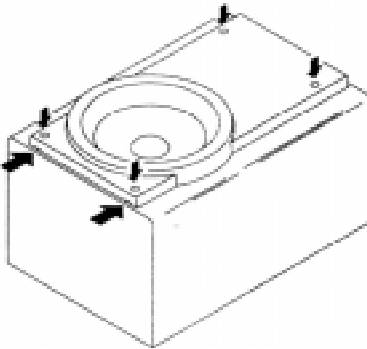


SPEAKER DISASSEMBLY INSTRUCTIONS

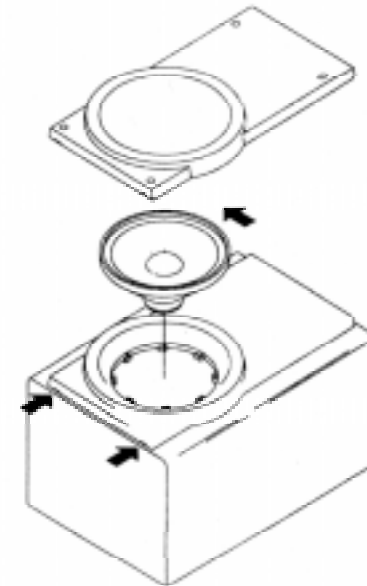
Type.1
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



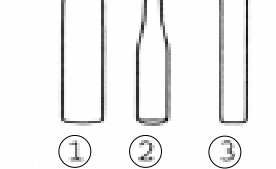
Type.3
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counterclockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction untill "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.

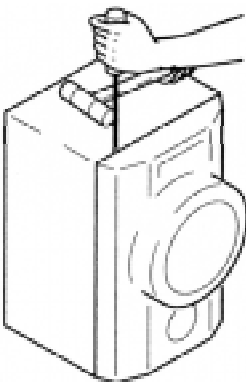


Fig-1

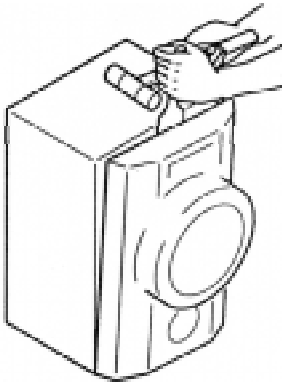


Fig-2

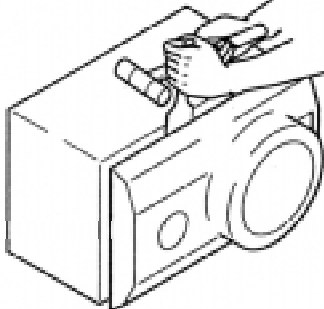


Fig-3

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-NAV704 (YJB,NL)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NST-002-010		PANEL,FR
2	88-NST-006-010		GRILLE,FRAME ASSY
3	83-096-614-010		SPEAKER CODE ASSY (YB)
4	88-NST-601-010		TERMINAL,ASSY
5	88-NST-009-010		PANEL,TW ASSY
6	87-NSS-602-010		SPKR,W 160
7	87-NSR-604-010		SPKR,T 80
8	88-NST-014-010		PROTECTOR,TW

SPEAKER PARTS LIST <SX-CR675 (YJB,YJST,YB,YST,YJ7B,Y1ST)>

NOTE: This SX-CR675 speaker contains SX-C605 (center speaker) and SX-R275 (rear speaker).

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-010		PANEL,FRONT ST (C605) <YJST,YST>
1	87-YS7-001-010		PANEL,FRONT B (C605) <YJB,YB,YJ7B,Y1ST>
2	87-YS3-003-010		GRILLE,FRAME ASSY (C605)
3	83-NSM-010-010		SPEAKER CORD (C605)
4	87-YS7-602-010		SPKR,100 (C605)
5	87-YS1-001-010		CABI,REAR (R275) <YJST,YST>
5	87-YS6-001-010		CABI,REAR B (R275) <YJB,YB,YJ7B,Y1ST>
6	87-YS1-004-010		GRILLE FRAME ASSY (R275)
7	87-YS1-002-010		GRILLE,FRAME (R275)
8	81-VSA-009-010		CORD BUSH (R275)
9	87-YS6-002-010		SPKR, CORD Y (R275)
10	87-YS6-601-010		SPKR, 100 (R275)
11	87-010-384-010		CAP,E 100-25 SME (R275)
12	87-YS8-901-010		IB,YJ (ECA) O (R275) <YJBNC,YJSTNC,YJSTNCC>
12	87-YS8-906-010		IB,Y (9L) O (R275) <YJBNC,YSTNC,YBNC,YSTNCC>
12	87-YS8-911-010		IB,YJ (ECA) T (R275) <YJ7BNL,Y1STNL>

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NHT-901-010		IB,H (EC-K) I
2	87-006-269-010		AM LOOP ANT
3	87-043-115-010		FEEDER-ANT,FM
△ 4	87-099-724-010		PLUG,CONVERSION IR39
5	88-MGM-701-010		RC UNIT,RC-8AS03
6	87-043-095-010		ANT,WIRE
7	87-050-103-010		CORD,PIN 1PY 1.5M

L ▶

A4 ▶

サ ー ビ ス 提 供 条 件	
番 号	通 格 内 容
G	
G- ー	
G	

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111（代表）
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111