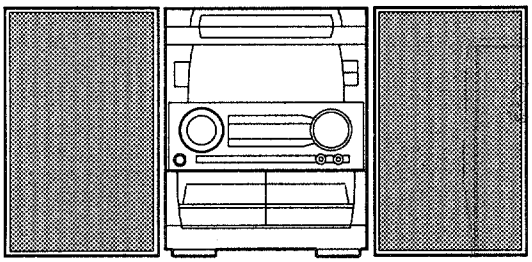
aiwa

aiwa SERVICE

NSX-A909
NSX-S909
NSX-S910



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 YPR4N
- BASIC CD MECHANISM : 4ZG–1 Z3DSHNM, Z4SHMD
- TYPE : 909(U,LH), 910LH

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

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

SERVICE MANUAL

S/M Code No. 09–984–250–1FE

TABLE OF CONTENTS

SPECIFICATIONS 3
NOTE ON 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 ~ 11
TRANSISTOR ILLUSTRATION 12
BLOCK DIAGRAM (MAIN / FRONT) 13, 14
WIRING – 1 (MAIN) 15, 16
SCHEMATIC DIAGRAM – 1 (MAIN 1/2) ..... 17 ~ 19
SCHEMATIC DIAGRAM – 2 (FRONT) ..... 20 ~ 22
WIRING – 2 (FRONT) 23, 24
WIRING – 3 (HI-AMP) 25, 26
SCHEMATIC DIAGRAM – 3 (HI-AMP) 27, 28
WIRING – 4 (AC1 / AC2) 29
SCHEMATIC DIAGRAM – 4 (TUNER FRONT END) 30
SCHEMATIC DIAGRAM – 5 (MAIN 2/2) 31, 32
WIRING – 5 (DECK) 33
FL GRID ASSIGNMENT & ANODE CONNECTION 34, 35
ADJUSTMENT <TUNER / DECK> 36, 37
PRACTICAL SERVICE FIGURE 38
IC DESCRIPTION 39, 40
IC BLOCK DIAGRAM ..... 41 ~ 46
MECHANICAL EXPLODED VIEW 1 / 1 ..... 47, 48
MECHANICAL PARTS LIST 1 / 1 49
TAPE MECHANISM EXPLODED VIEW 1 / 1 ..... 50, 51
TAPE MECHANISM PARTS LIST 1 / 1 52
SPRING APPLICATION POSITION 53
SPEAKER DISASSEMBLY INSTRUCTIONS 54
SPEAKER PARTS LIST 55
ACCESSORIES / PACKAGE LIST 55
REFERENCE NAME LIST 56

SPECIFICATIONS

<FM Tuner section>

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

<MW Tuner section>

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

<Amplifier section>

Mid-high frequency amplifier

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

Low-high frequency amplifier

Power output	U : 80 W + 80 W (20 Hz - 200 Hz, T.H.D. less than 1%, 6 ohms) LH : 140 W + 140 W (70 Hz, T.H.D. 10%, 6 ohms)
Total harmonic distortion	0.1% (70 W, 70 Hz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC1, MIC2 : 1.4mV (10 kohms)
Outputs	LINE OUT: 280mV SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 Hz – 16000 Hz Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dobly B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback head x 1/ erase head x 1

<Compact disc player section>

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

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

Cabinet type	4 way, subwoofer (magnetic shielded type)
Speakers	Subwoofer : 200 mm ($7^7/_8$ in.) cone type Woofer : 120 mm ($4^3/_4$ in.) cone type Tweeter : 60 mm ($2^3/_8$ in.) ceramic type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms / 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 330mm ($9^1/_2$ X $12^7/_8$ X 13 in.)
Weight	6 kg (13 lbs 4 oz.)

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

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

<General>

Power requirements	U : 120 V AC, 60 Hz LH : 120 V/220-230 V/240 V AC (switchable), 50/60 Hz
Power consumption	U : 140 W LH : 215 W
Dimensions of main unit	260 x 329 x 369 mm ($10^1/_4$ X 13 X $14^5/_8$ in.)
Weight	U : 9.8 kg (21 lbs 10 oz.) LH : 10.9 kg

- Design and specifications are subject to change without notice.

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

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

NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, the secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connector the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased 1 V or less using a multimeter or an oscilloscope.

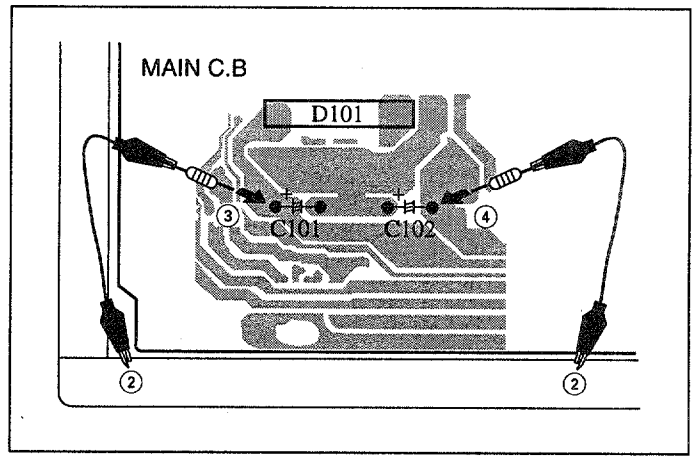


Fig-1

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 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.

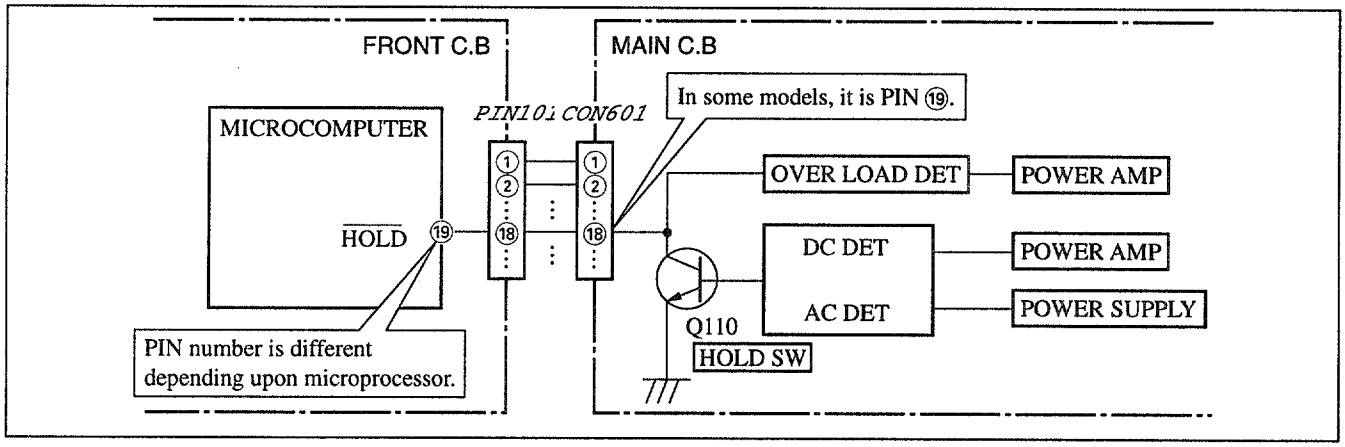


Fig-2-1

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 leads to wrong judgment as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

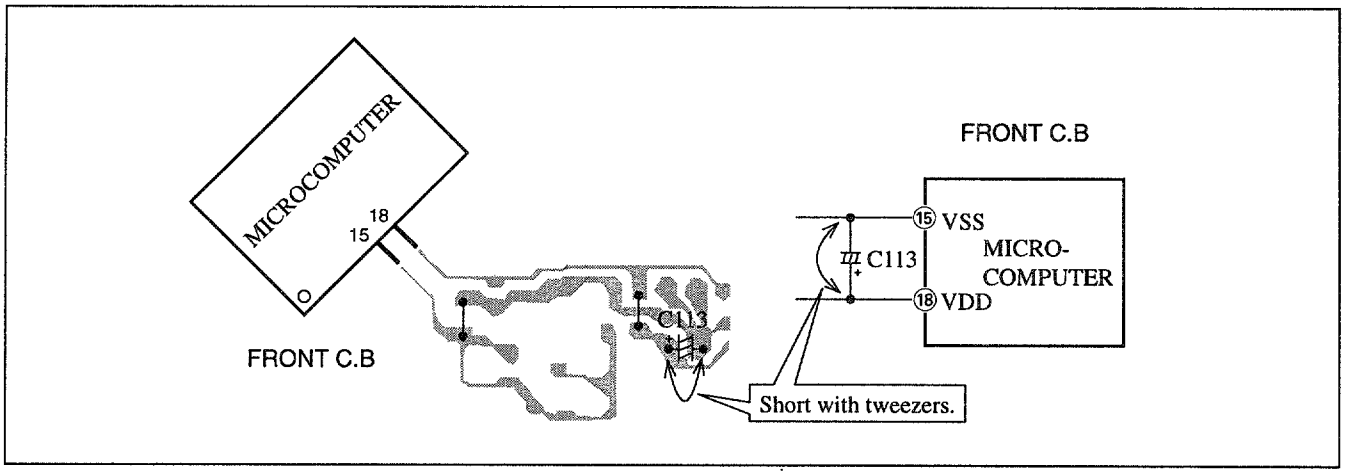


Fig-2-2

② Short the both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

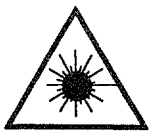
2-3. Confirmation of soldering state of MICROCOMPUTER

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

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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

ADVARSEL!
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer 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

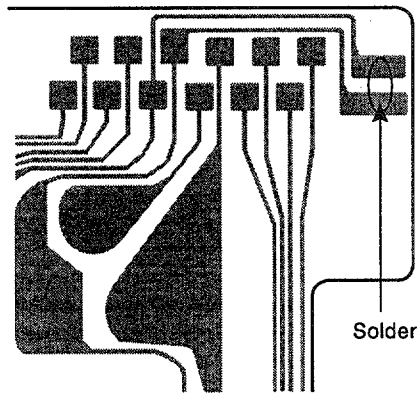
Precaution to replace Optical block

(KSS – 213F)

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

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

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	88-NF5-615-040		C-IC,MSM6654A-521GS-KR1
	88-NF7-690-010		C-IC,LC866560W-5G73
	87-070-083-010		IC,GP1U281X
	87-A20-783-040		C-IC,BA7762AFS
	87-A20-083-010		IC,BA3835S
	87-017-914-010		IC,BU4094BCP
	87-A20-804-040		C-IC,NJM2152M
	87-017-915-080		IC,BU4094BCF
	87-A20-613-040		C-IC,BU9262AFS
	87-A20-954-040		C-IC,M62445FP-601
	87-017-888-080		IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
	87-020-454-010		IC,DN6851
	87-A20-355-010		IC,CXA1553P
	87-070-289-040		C-IC,BU2092F
TRANSISTOR			
	87-A30-087-080		C-FET,2SK2158
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-263-080		C-TR,RN1410
	87-A30-071-080		C-TR,RT1N 144C
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-196-080		TR,2SC4115SRS
	87-A30-075-080		C-TR,2SA1235F
	87-026-609-080		TR,KTA1266GR
	87-A30-107-070		C-TR,CMBT5401
	87-A30-190-080		TR,CC5551
	87-A30-137-010		TR,2SD2494
	87-A30-097-010		TR,FN 1016<LH>
	87-A30-138-010		TR,2SB1625
	87-A30-098-010		TR,FP 1016<LH>
	87-A30-106-070		C-TR,CMBT5551
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-074-080		C-TR,RT1P 141C
	87-026-232-080		C-TR,DTA 144WK
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-086-070		C-TR,CSD1306E
	89-112-965-080		TR,2SA1296 (0.75W)
	87-A30-085-070		C-TR,CSA1362GR
	89-327-143-080		TR,2SC2714 (0.1W)
	87-026-463-080		TR,2SA933SRS
	87-A30-162-010		FET,2SK2937
	87-A30-108-010		TR,2SB1626<U>
	87-A30-109-010		TR,2SD2495<U>
	87-026-580-080		C-TR,DTA123JK
DIODE			
	87-A40-470-080		DIODE,1SS254
	87-017-654-060		DIODE,GBU6JL 6131
	87-A40-269-080		C-DIODE,MC2836
	87-A40-509-080		ZENER,MTZJ6.8C
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-488-080		DIODE,1SS244
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-184-090		DIODE,RF34<U>
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-274-010		DIODE,FMB-G16L<LH>
	87-017-447-010		DIODE,GBU4DL-6419
MAIN C.B			
C101	87-016-657-090		CAP,E 3300-71<LH>
C102	87-016-657-090		CAP,E 3300-71<LH>
C103	87-016-658-090		CAP,E 4700-35 SMG
C104	87-016-658-090		CAP,E 4700-35 SMG
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-012-368-080		C-CAP,S 0.1-50 F
C107	87-012-368-080		C-CAP,S 0.1-50 F
C108	87-012-368-080		C-CAP,S 0.1-50 F
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-196-080		CHIP CAPACITOR,0.1-25
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
C116	87-010-247-080		CAP, ELECT 100-50V
C117	87-010-430-080		CAP, ELECT 100-63
C118	87-010-263-080		CAP, ELECT 100-10V
C119	87-010-260-080		CAP, ELECT 47-25V
C120	87-010-403-080		CAP, ELECT 3.3-50V
C121	87-012-140-080		CAP 470P
C122	87-010-263-080		CAP, ELECT 100-10V<U>
C123	87-010-247-080		CAP, ELECT 100-50V
C124	87-010-112-080		CAP, ELECT 100-16V
C125	87-010-235-080		CAP,E 470-16 SME
C151	87-016-520-090		CAP,E 3300-65<U>
C152	87-016-520-090		CAP,E 3300-65<U>
C209	87-010-401-080		CAP, ELECT 1-50V
C210	87-010-401-080		CAP, ELECT 1-50V
C215	87-010-404-080		CAP, ELECT 4.7-50V
C216	87-010-404-080		CAP, ELECT 4.7-50V
C217	87-010-260-080		CAP, ELECT 47-25V
C218	87-010-260-080		CAP, ELECT 47-25V
C223	87-010-197-080		CAP,CHIP 0.01 DM
C224	87-010-197-080		CAP,CHIP 0.01 DM
C229	87-A10-812-080		C-CAP,S 220P-200 J CH
C230	87-A10-812-080		C-CAP,S 220P-200 J CH
C231	87-012-154-080		C-CAP,S 150P-50 CH
C232	87-012-154-080		C-CAP,S 150P-50 CH
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
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
C280	87-010-182-080		C-CAP,S 2200P-50 B
C298	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-179-080		CAP,CHIP S B1200P
C314	87-010-179-080		CAP,CHIP S B1200P
C315	87-010-178-080		CHIP CAP 1000P
C316	87-010-178-080		CHIP CAP 1000P
C317	87-012-142-080		CAP,S 0.33-16
C318	87-012-142-080		CAP,S 0.33-16
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-177-080		C-CAP,S 820P-50 SL
C372	87-010-177-080		C-CAP,S 820P-50 SL
C373	87-010-179-080		CAP, CHIP S B1200P
C374	87-010-179-080		CAP, CHIP S B1200P
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P (K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-405-080		CAP, ELECT 10-50V
C402	87-010-405-080		CAP, ELECT 10-50V
C403	87-010-182-080		C-CAP,S 2200P-50 B
C404	87-010-182-080		C-CAP,S 2200P-50 B
C405	87-010-193-080		CHIP CAPACITOR,0.033
C406	87-010-193-080		CHIP CAPACITOR,0.033
C407	87-010-405-080		CAP, ELECT 10-50V
C408	87-010-405-080		CAP, ELECT 10-50V
C409	87-010-380-080		CAP, ELECT 47-16V
C410	87-010-380-080		CAP, ELECT 47-16V
C411	87-010-405-080		CAP, ELECT 10-50V
C412	87-010-112-080		CAP, ELECT 100-16V
C415	87-010-184-080		CHIP CAPACITOR,3300P (K)
C416	87-010-184-080		CHIP CAPACITOR,3300P (K)
C453	87-010-544-080		CAP, ELECT 0.1-50V
C454	87-010-544-080		CAP, ELECT 0.1-50V
C457	87-010-402-080		CAP, ELECT 2.2-50V
C458	87-010-402-080		CAP, ELECT 2.2-50V
C459	87-010-402-080		CAP, ELECT 2.2-50V
C460	87-010-402-080		CAP, ELECT 2.2-50V
C461	87-010-545-080		CAP, ELECT 0.22-50V
C463	87-010-402-080		CAP, ELECT 2.2-50V
C464	87-010-402-080		CAP, ELECT 2.2-50V
C516	87-010-196-080		CHIP CAPACITOR,0.1-25
C551	87-010-401-080		CAP, ELECT 1-50V<LH>
C552	87-010-263-080		CAP, ELECT 100-10V<LH>
C553	87-010-380-080		CAP, ELECT 47-16V<LH>
C601	87-010-180-080		C-CER 1500P
C602	87-010-180-080		C-CER 1500P
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C619	87-010-185-080		C-CAP,S 3900P-50 B
C620	87-010-185-080		C-CAP,S 3900P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V
C622	87-010-401-080		CAP, ELECT 1-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C625	87-010-405-080		CAP, ELECT 10-50V
C626	87-010-405-080		CAP, ELECT 10-50V
C629	87-010-405-080		CAP, ELECT 10-50V
C630	87-010-213-080		CAP, CHIP 0.015-25 KB GRM
C631	87-010-992-080		CHIP-CAP,S 0.047-25B
C632	87-010-263-080		CAP, ELECT 100-10V
C633	87-010-263-080		CAP, ELECT 100-10V
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C636	87-010-194-080		CAP, CHIP 0.047
C637	87-010-183-080		C-CAP,S 2700P-50 B
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C667	87-010-196-080		CHIP CAPACITOR,0.1-25
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C709	87-010-322-080		C-CAP,S 100P-50 CH
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C721	87-010-312-080		C-CAP,S 15P-50 CH
C722	87-010-312-080		C-CAP,S 15P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C755	87-010-197-080		CAP, CHIP 0.01 DM
C756	87-010-197-080		CAP, CHIP 0.01 DM
C757	87-010-318-080		C-CAP,S 47P-50 CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C762	87-010-197-080		CAP, CHIP 0.01 DM
C763	87-010-194-080		CAP, CHIP 0.047
C764	87-010-319-080		C-CAP,S 56P-50 CH
C765	87-010-197-080		CAP, CHIP 0.01 DM
C766	87-010-197-080		CAP, CHIP 0.01 DM
C767	87-010-405-080		CAP, ELECT 10-50V
C768	87-010-197-080		CAP, CHIP 0.01 DM
C769	87-010-408-080		CAP, ELECT 47-50V
C770	87-015-821-080		C-CAP 0.047
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-194-080		CAP, CHIP 0.047
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-015-819-080		CAPACITOR,0.01
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-403-080		CAP, ELECT 3.3-50V
C786	87-010-403-080		CAP, ELECT 3.3-50V
C787	87-010-184-080		CHIP CAPACITOR,3300P (K)
C788	87-010-184-080		CHIP CAPACITOR,3300P (K)
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-010-177-080		C-CAP,S 820P-50 SL
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-010-182-080		C-CAP,S 2200P-50 B
C798	87-010-182-080		C-CAP,S 2200P-50 B
C799	87-010-194-080		CAP, CHIP 0.047

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C812	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-408-080		CAP, ELECT 47-50V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
FB601	87-A50-190-080		C-COIL,S BLM21A102S
FC451	88-905-361-110		FF-CABLE,5P 1.25 360MM
FC602	85-NF5-617-010		FF-CABLE,6P 1.25
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM
J211	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J601	87-A60-402-010		JACK,PIN 6P R/W HSP-246V30
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-209-010		COIL,1 POLE MPX (MIT)
L792	87-A50-209-010		COIL,1 POLE MPX (MIT)
L832	86-NFZ-694-080		COIL,2.2UH K CECS
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)
M451	87-A90-796-010		FAN,F614R-12MC-15-30MM<LH>
R123	87-022-200-080		RESISTOR, METAL 0.56 1W<U>
R237	87-A00-262-080		RES,M/F 0.15-2W J
R238	87-A00-262-080		RES,M/F 0.15-2W J
R239	87-A00-262-080		RES,M/F 0.15-2W J
R240	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-045-389-010		RELAY, 12V OSA-SS-212 DM5
SFR301	87-A90-557-080		SFR,33K H HOKU
SFR302	87-A90-557-080		SFR,33K H HOKU
SFR303	87-A90-557-080		SFR,33K H HOKU
SFR304	87-A90-557-080		SFR,33K H HOKU
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TH201	87-A90-221-080		C-THMS,100K<LH>
TH202	87-A90-221-080		C-THMS,100K<LH>
W104	85-NF5-628-010		F-CABLE 7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C101	87-010-263-040		CAP,E 100-10
C102	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-494-040		CAP,E 1-50 GAS
C105	87-010-178-080		CHIP CAP 1000P
C106	87-A10-189-040		CAP,E 220-10
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-194-080		CAP, CHIP 0.047
C110	87-012-157-080		C-CAP,S 330P-50 CH
C111	87-010-320-080		CHIP CAP 68P
C112	87-010-312-080		C-CAP,S 15P-50 CH
C113	87-010-316-080		C-CAP,S 33P-50 CH
C114	87-010-182-080		C-CAP,S 2200P-50 B
C115	87-010-182-080		C-CAP,S 2200P-50 B
C116	87-010-075-040		CAP,E 10-16 5L
C117	87-012-157-080		C-CAP,S 330P-50 CH
C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-194-080		CAP, CHIP 0.047
C122	87-010-194-080		CAP, CHIP 0.047
C124	87-010-555-040		CAP,E 100-10 GAS
C125	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-178-080		CHIP CAP 1000P
C202	87-010-194-080		CAP, CHIP 0.047
C203	87-010-408-040		CAP,E 47-50 SME
C204	87-010-404-040		CAP,E 4.7-50 SME
C205	87-010-404-040		CAP,E 4.7-50 SME
C371	87-010-196-080		CHIP CAPACITOR,0.1-25
C372	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-010-196-080		CHIP CAPACITOR,0.1-25
C375	87-010-196-080		CHIP CAPACITOR,0.1-25
C376	87-012-158-080		C-CAP,S 390P-50 CH
C377	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C404	87-010-196-080		CHIP CAPACITOR,0.1-25
C406	87-010-196-080		CHIP CAPACITOR,0.1-25
C408	87-010-196-080		CHIP CAPACITOR,0.1-25
C501	87-010-319-080		C-CAP,S 56P-50 CH
C502	87-010-319-080		C-CAP,S 56P-50 CH
C503	87-012-393-080		C-CAP,S 0.22-16 R K
C504	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-010-180-080		C-CER 1500P
C506	87-010-213-080		C-CAP,S 0.015-50 B
C507	87-010-213-080		C-CAP,S 0.015-50 B
C508	87-010-197-080		CAP, CHIP 0.01 DM
C509	87-010-181-080		CAP,CHIP S 1800P
C510	87-010-196-080		CHIP CAPACITOR,0.1-25
C511	87-010-544-040		CAP,E 0.1-50 SME
C512	87-010-374-040		CAP,E 47-10
C513	87-010-401-040		CAP,E 1-50 SME
C514	87-010-401-040		CAP,E 1-50 SME
C515	87-010-183-080		C-CAP,S 2700P-50 B
C516	87-010-183-080		C-CAP,S 2700P-50 B
C518	87-010-196-080		CHIP CAPACITOR,0.1-25
C519	87-010-264-040		CAP,E 100-10 5L
C523	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C601	87-010-405-040		CAP,E 10-50
C602	87-010-186-080		CAP,CHIP 4700P
C603	87-010-378-040		CAP,E 10-16
C604	87-010-382-040		CAP,E 22-25 SME
C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C607	87-010-321-080		CHIP CAPACITOR,82P(J)
C608	87-010-196-080		CHIP CAPACITOR,0.1-25
C609	87-010-545-040		CAP,E 0.22-50 SME
C611	87-010-177-080		C-CAP,S 820P-50 SL
C614	87-A10-189-040		CAP,E 220-10
C651	87-010-401-040		CAP,E 1-50 SME
C652	87-010-196-080		CHIP CAPACITOR,0.1-25
C653	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-263-040		CAP,E 100-10
C902	87-010-196-080		CHIP CAPACITOR,0.1-25
C903	87-010-313-080		CAP, CHIP 18P
C904	87-012-155-080		C-CAP 180P-50CH
C905	87-010-400-040		CAP,E 0.47-50
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FL201	88-NF5-611-010		FL,BJ609GK
J601	87-A60-284-010		JACK,3.5MO (MSC)
J602	87-A60-284-010		JACK,3.5MO (MSC)
L501	87-005-448-080		COIL 220UH,K
L901	87-007-340-010		COIL,CLOCK 4.19MHZ
LED401	87-A90-783-080		LED,SLZ-781C-06H-S-T2

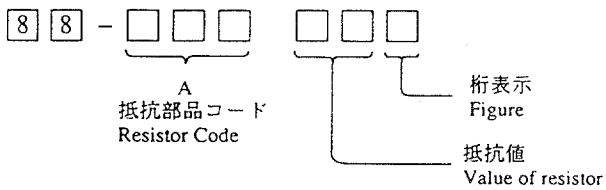
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED402	87-A90-783-080		LED,SLZ-781C-06H-S-T2
LED403	87-A90-783-080		LED,SLZ-781C-06H-S-T2
LED404	87-A90-783-080		LED,SLZ-781C-06H-S-T2
LED405	87-A90-783-080		LED,SLZ-781C-06H-S-T2
LED406	87-A90-783-080		LED,SLZ-781C-06H-S-T2
LED407	87-A90-783-080		LED,SLZ-781C-06H-S-T2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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ F101	87-035-491-010		FUSE,6A 125V D UL<U>
⚠ F102	87-035-458-010		FUSE,4A 250V T W/C<LH>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<LH>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<LH>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<LH>
⚠ FC101	87-A90-505-080		FUSE CLAMP,TP00351-51<U>
⚠ FC102	87-A90-505-080		FUSE CLAMP,TP00351-51<U>
⚠ PT101	88-NF5-602-010		PT,LH EI96-60 8NF-5<LH>
⚠ PT101	88-NF5-601-010		PT,U EI85-60 8NF-5<U>
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC<U>
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC<U>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>
AC2 C.B			
⚠ PR101	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR101	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR102	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR102	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR103	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR103	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR104	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR104	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR105	87-A90-210-010		FUSE,7A 125V 251<U>
⚠ PR105	87-A90-195-080		PROTECTOR,7A 125V 49C<LH>
⚠ PR106	87-A90-210-010		FUSE,7A 125V 251<U>
⚠ PR106	87-A90-195-080		PROTECTOR,7A 125V 49C<LH>
W104	85-NF5-628-010		F-CABLE,7P-2.5

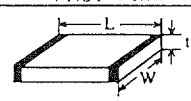
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
DECK C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ
W001	82-ZM3-601-019		RBN,CORD,4P-75
HEAD-1 C.B			
HEAD-2 C.B			
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

○ 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) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
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

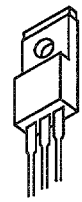
KTA1266GR
KTC3198GR

E C B

CC5551

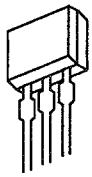
E C B

2SA1296



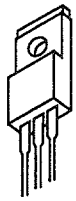
B C E

2SB1370
2SB1625
2SD2494
FN1016
FP1016



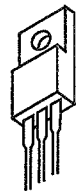
E C B

2SA933
2SC4115



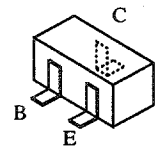
G D S

2SK2937

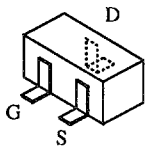


B C E

2SB1626
2SD2495

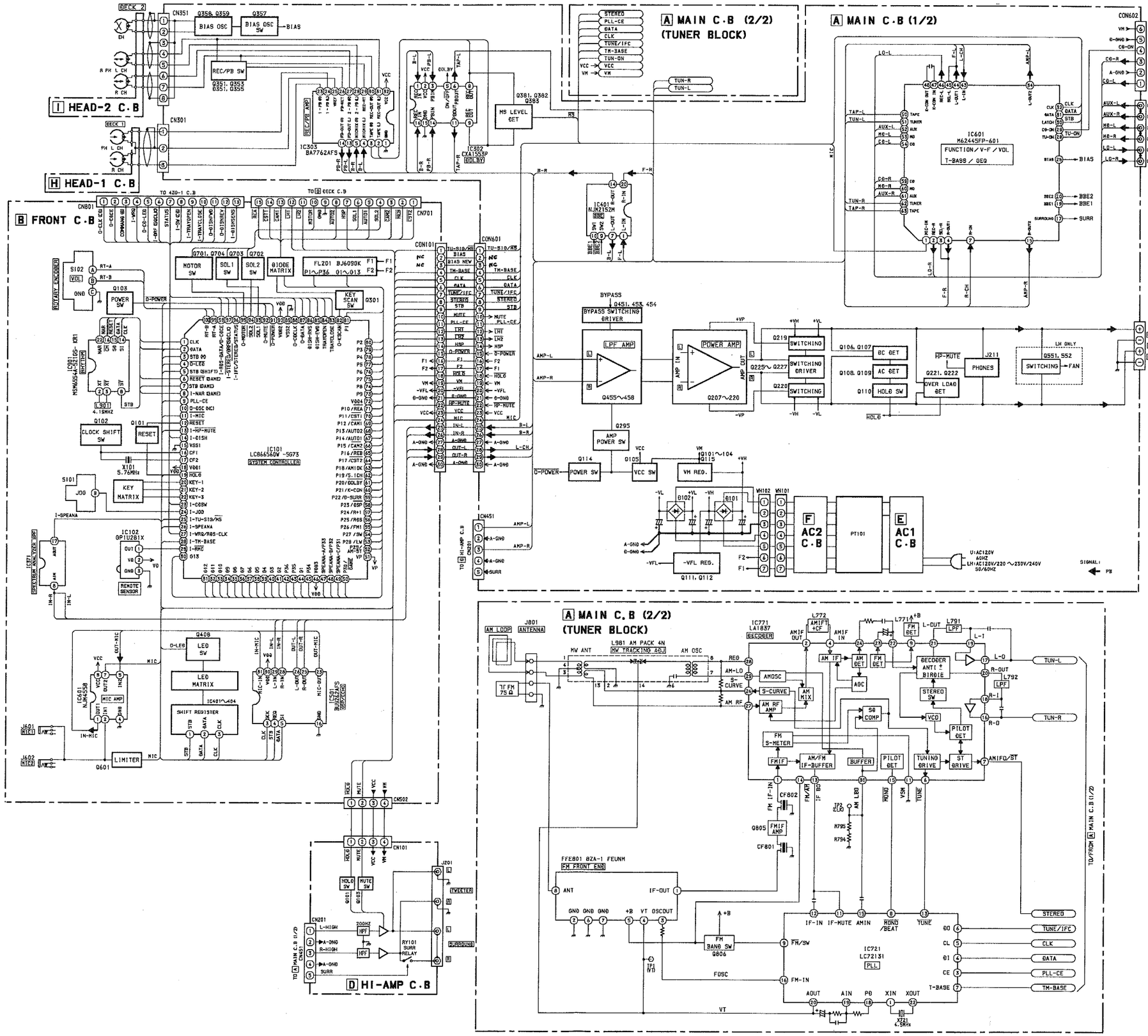


2SA1235F
2SC2714
2SC3052F
CMBT5401
CMBT5551
CSA1362GR
CSD1306E
DTA123JK
DTA144WK
RN1410
RT1N141C
RT1N144C
RT1P141C
RT1P144C
RT1P441C



2SK2158

BLOCK DIAGRAM (MAIN / FRONT)


A MAIN C.B (2/2) (TUNER BLOCK)
A MAIN C.B (1/2)
I HEAD-2 C.B
H HEAD-1 C.B
B FRONT C.B
D HI-AMP C.B
F AC2 C.B
E AC1 C.B
IC601 M62445FP-601
FUNCTION / V-F / VOL T-BASS / GEQ
IC101 LC866560W -5G73
SYSTEM CONTROLLER
IC401 N.JM2152M
IC771 LA1837
DECODER
L981 AM PACK 4N
FFE801 BZA-1 FEUNM
FM FRONT END
IC721 LC72131
PLL
BYPASS SWITCHING DRIVER
LPF AMP
POWER AMP
AMP POWER SW
VCC SW
VM REG.
-VFL REG.
PT101
MOTOR SW
SOL1 SW
SOL2 SW
KEY SCAN SW
ROTARY ENCODER
POWER SW
CLOCK SHIFT SW
RESET
KEY MATRIX
REMOTE SENSOR
LED SW
LED MATRIX
SHIFT REGISTER
MIC AMP
LIMITER
HOLD SW
MUTE SW
SWITCHING
SWITCHING DRIVER
BC DET
AC DET
HOLD SW
MP-MUTE
OVER LOAD DET
PHONES
SWITCHING
FAN
LH ONLY
AM LOOP ANTENNA
FM 75Ω
AM OSC
AM MIX
AGC
DECODER ANTI ± BIROIE
STEREO SW
VCO
PILOT DET
S-METER
AM/FM IF-BUFFER
BUFFER
TUNING DRIVE
ST DRIVE
S-CURVE
S-COMP
FM BAND SW
Q806
TO/FROM A MAIN C.B (1/2)
TO/FROM A MAIN C.B (2/2)
TO 420-1 C.B
TO DECK C.B
TO HI-AMP C.B
STEREO
PLL-CE
DATA
CLK
TUNE/IFC
TM-BASE
TUN-ON
VCC
VM
TUN-R
TUN-L
BIAS OSC
BIAS OSC SW
REC/PB SW
MS LEVEL SET
BA7762AFS
CXA1535SP
DOLBY
MUTE
HOLD
BIAS
BIAS NEW
NC
RT-A
RT-B
GND
VDL
S102
Q103
Q102
Q101
Q301
Q401~404
Q601
Q408
Q402
Q403
Q404
Q705
Q704
Q703
Q702
Q701
Q801
Q802
Q803
Q804
Q805
Q806
Q807
Q808
Q809
Q810
Q811
Q812
Q813
Q814
Q815
Q816
Q817
Q818
Q819
Q820
Q821
Q822
Q823
Q824
Q825
Q826
Q827
Q828
Q829
Q830
Q831
Q832
Q833
Q834
Q835
Q836
Q837
Q838
Q839
Q840

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

A B C D E F G H I J

A MAIN C.B

FROM I HEAD-2 C.B
CON351
1 3 5 7 8
TO CN351

FROM H HEAD-1 C.B
CON301
1 3
TO CN301

TO B FRONT C.B
CON101
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 30

J801
ANTENNA

AM LOOP

FM 75Ω

TO 4Z0-1 C.B
FC602
TO CN602

J601
VIDEO AUX

J601
LINE OUT

LH ONLY
M451
FAN
CN551
J601
MD

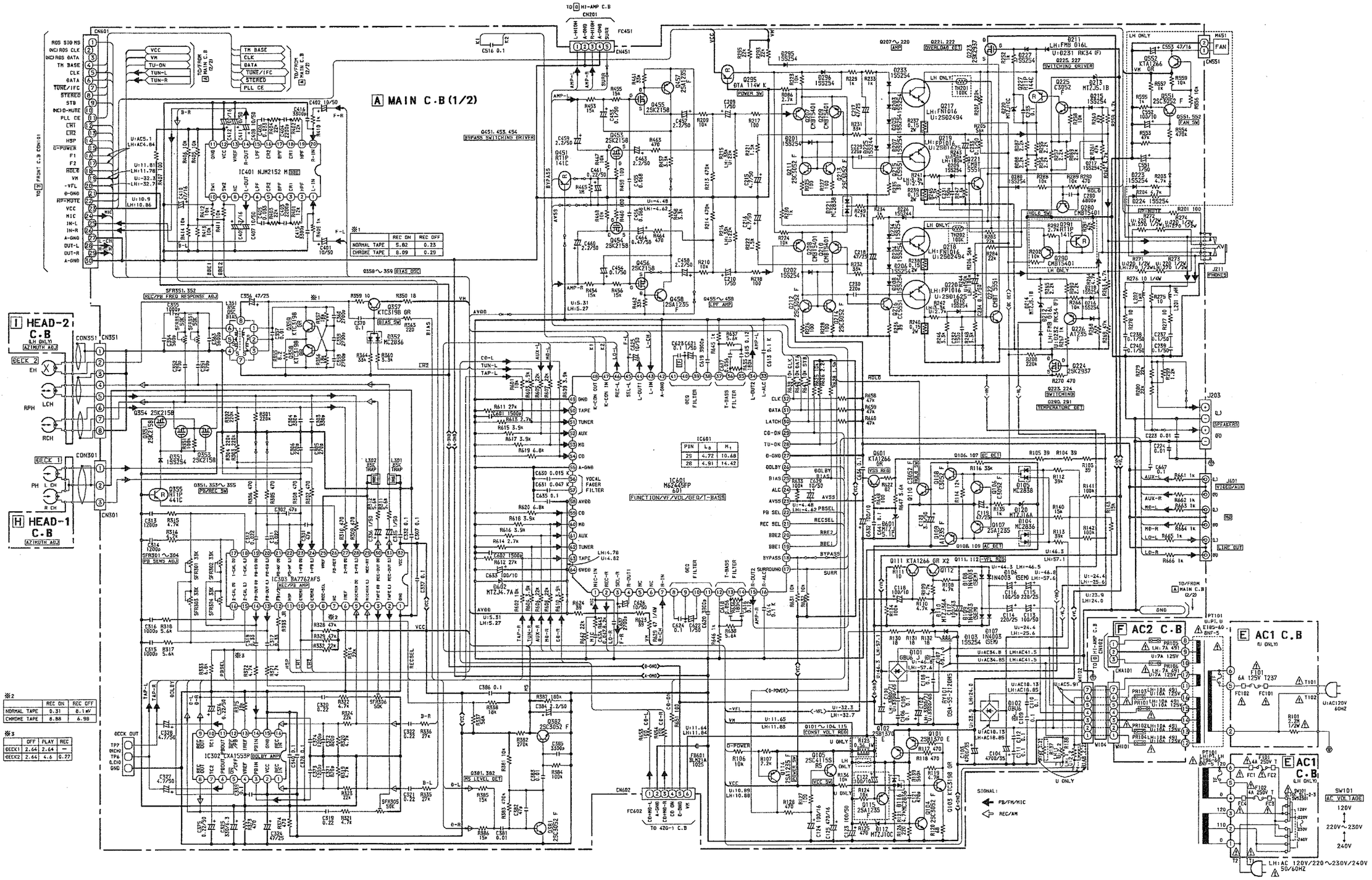
J203
SPEAKERS
SPEAKER IMP: 6Ω

FROM E AC2 C.B
W104
WH101
WHT

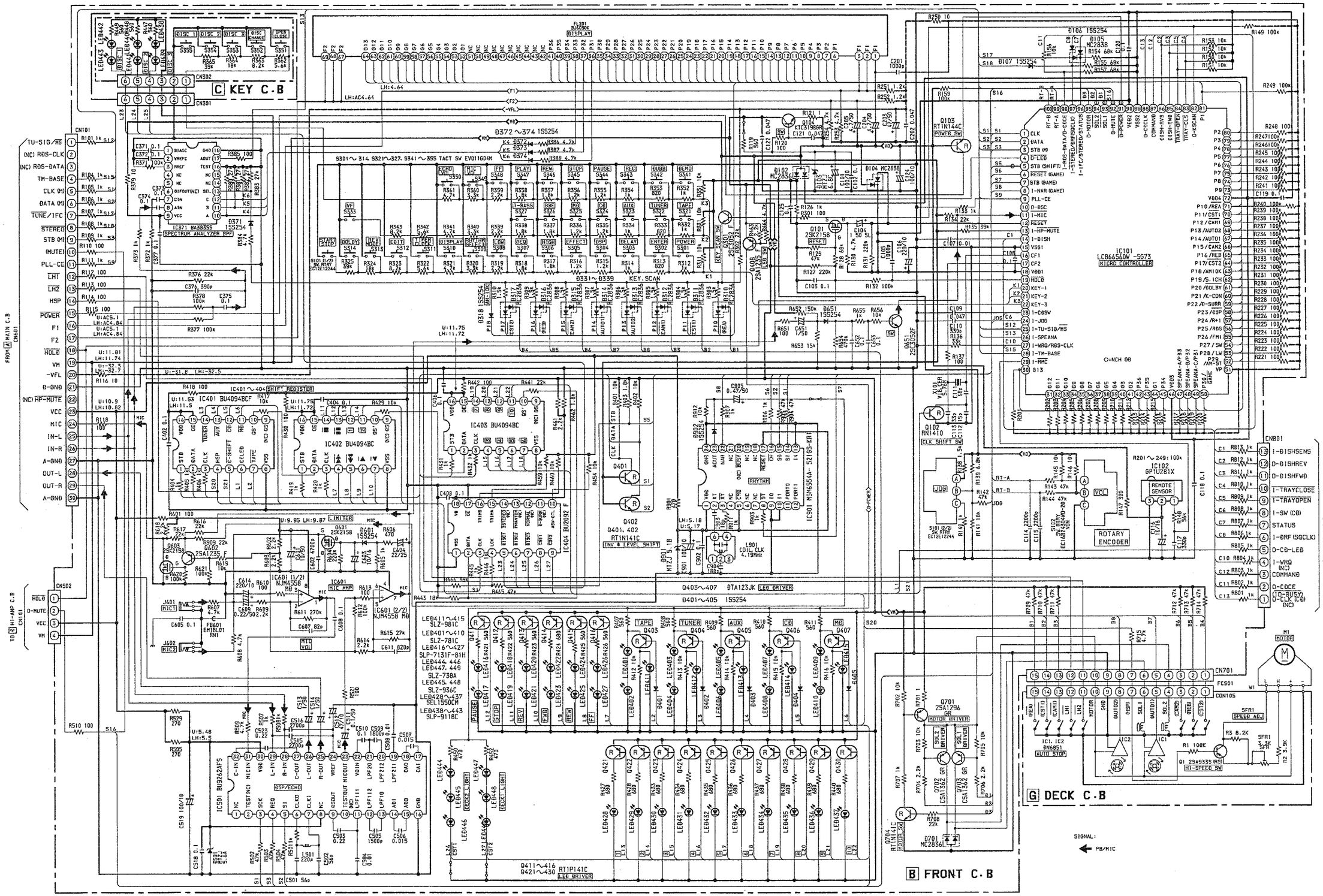
J201
PHONES

CN451
1 3 5
FC451
FROM D HI-AMP C.B
CN201

SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2)



SCHEMATIC DIAGRAM – 2 (FRONT)


C KEY C.B
CN302
CN301
CN101
CN601
FROM A MAIN C.B
CN502
CN101
TO B HI-AMP C.B
IC501 BU9262AFS
DSP/ECHO
IC401 ~404 SHIFT REGISTER
IC401 BU4094BCF
IC402 BU4094BC
IC403 BU4094BC
IC404 BU2092 F
IC601 MIC AMP
IC601 (1/2) NJM4558 MD
IC601 (2/2) NJM4558 MD
IC371 BA5835S
SPECTRUM ANALYZER BPF
IC101
LC866560W -5G73
MICRO CONTROLLER
IC102
GP1U281X
REMOTE SENSOR
IC1, IC2
BN6851
AUTO STOP
Q103
RT1N144C
POWER SW
Q102
RN1410
CLK SHIFT SW
Q701
2SA1796
GR
MOTOR DRIVER
Q702
2SC1362
GR
SOL2 DRIVER
Q703
2SC1362
GR
SOL1 DRIVER
Q704
RT1N141C
MOTOR SW
Q401, 402
RT1N141C
INV & LEVEL SHIFT
Q403~407 DTA123JK LED DRIVER
Q411~416
Q421~430 RT1P141C
LED DRIVER
Q104 KTC3198GR
Q105 2SC2785
Q106 2SC2785
Q107 2SC2785
Q108 2SC2785
Q101 2SK2158
RESET
Q201 2SA1235 F
Q202 2SC2458 F
Q601 2SK2158
Q602 2SA1235 F
Q0408 2SK2158
Q0409 2SA1235 F
Q0451 2SC3052F
Q0452 2SC3052F
Q0453 2SC3052F
Q0454 2SC3052F
Q0455 2SC3052F
Q0456 2SC3052F
Q0457 2SC3052F
Q0458 2SC3052F
Q0459 2SC3052F
Q0460 2SC3052F
Q0461 2SC3052F
Q0462 2SC3052F
Q0463 2SC3052F
Q0464 2SC3052F
Q0465 2SC3052F
Q0466 2SC3052F
Q0467 2SC3052F
Q0468 2SC3052F
Q0469 2SC3052F
Q0470 2SC3052F

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

A B C D E F G H I J

C KEY C.B

S351 ▲OPEN/CLOSE

S352 DISC CHANGE

LED438, 439 S353 DISC3

LED440, 441 S354 DISC2

LED442, 443 S355 DISC1

TO G DECK C.B CON105

FC301

FC501

B FRONT C.B

FL201 DISPLAY

CN301 CN701 CN302

S326 BBE

S327 T-BASS

S350 ECHO VOL

S349 MIC VOL

S102

S301 POWER

S310 DISPLAY

S309 RHYTHM

S302 ENTER

S101 MULTI JOG

S305 EFFECT

S308 GEQ LOW

S304 DSP SURROUND

S307 GEQ

S303 DELAY

S306 GEQ HIGH

LED428 1
LED429 2
LED430 3
LED431 4
LED432 5
LED433 6
LED434 7
LED435 8
LED436 9
LED437 10

FROM D HI-AMP C.B CN101

FROM 4ZG-1 C.B FC801 TO CN801

FROM A MAIN C.B CN601 CN101

J602 MIC2

S102 VOLUME

J601 MIC1

LED409, 410, 415 LED407, 408, 414 LED405, 406, 413 LED403, 404, 412 LED401, 402, 411

S325 MD

S324 CD

S323 VIDEO/AUX

S322 TUNER/BAND

S321 TAPE/ DECK 1/2

LED446, 445, 444 DECK2 LIGHT

S343 ● REC/ REC MUTE

S342 SYNC DUB

S341 DEMO

LED449, 448, 447 DECK1 LIGHT

LED426, 427 LED424, 425

LED420, 421, 422, 423

LED418, 419 LED416, 417

S348 ▶▶, UP

S346 ◀◀, DOWN

S347 ◀▶ DIRECTION/ PRESET

S345 ■ CLEAR

S344 ❚❚ SET

S311 CLOCK/TIMER

S333 KARAOKE

S312 CD EDIT/CHECK

S313 REV MODE

S314 DOBLY NR

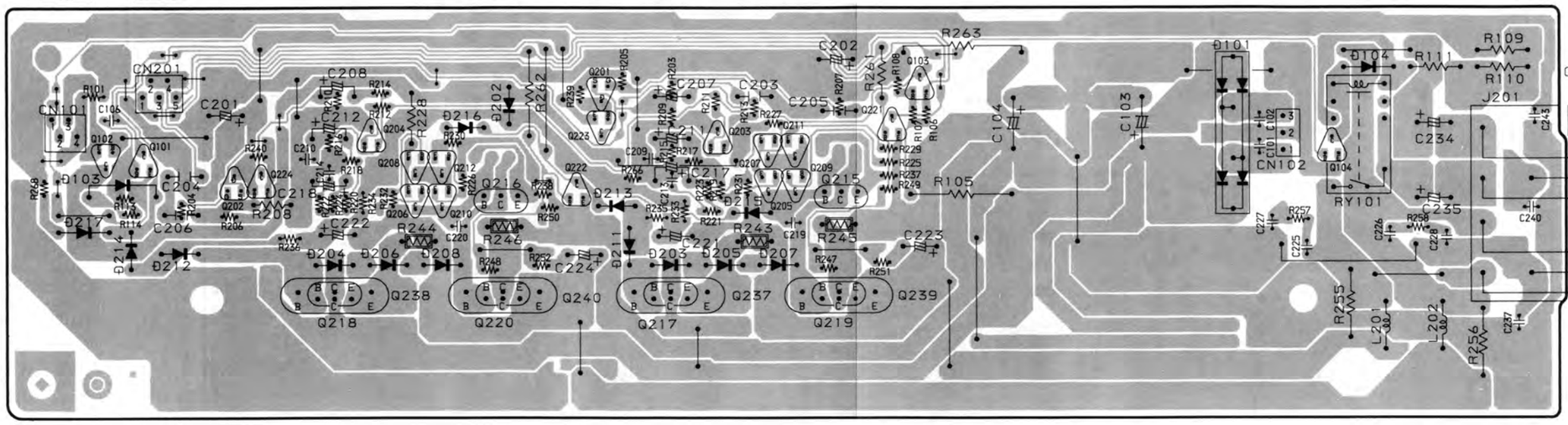
1 2 3 4 5 6 7 8 9 10 11 12 13 14

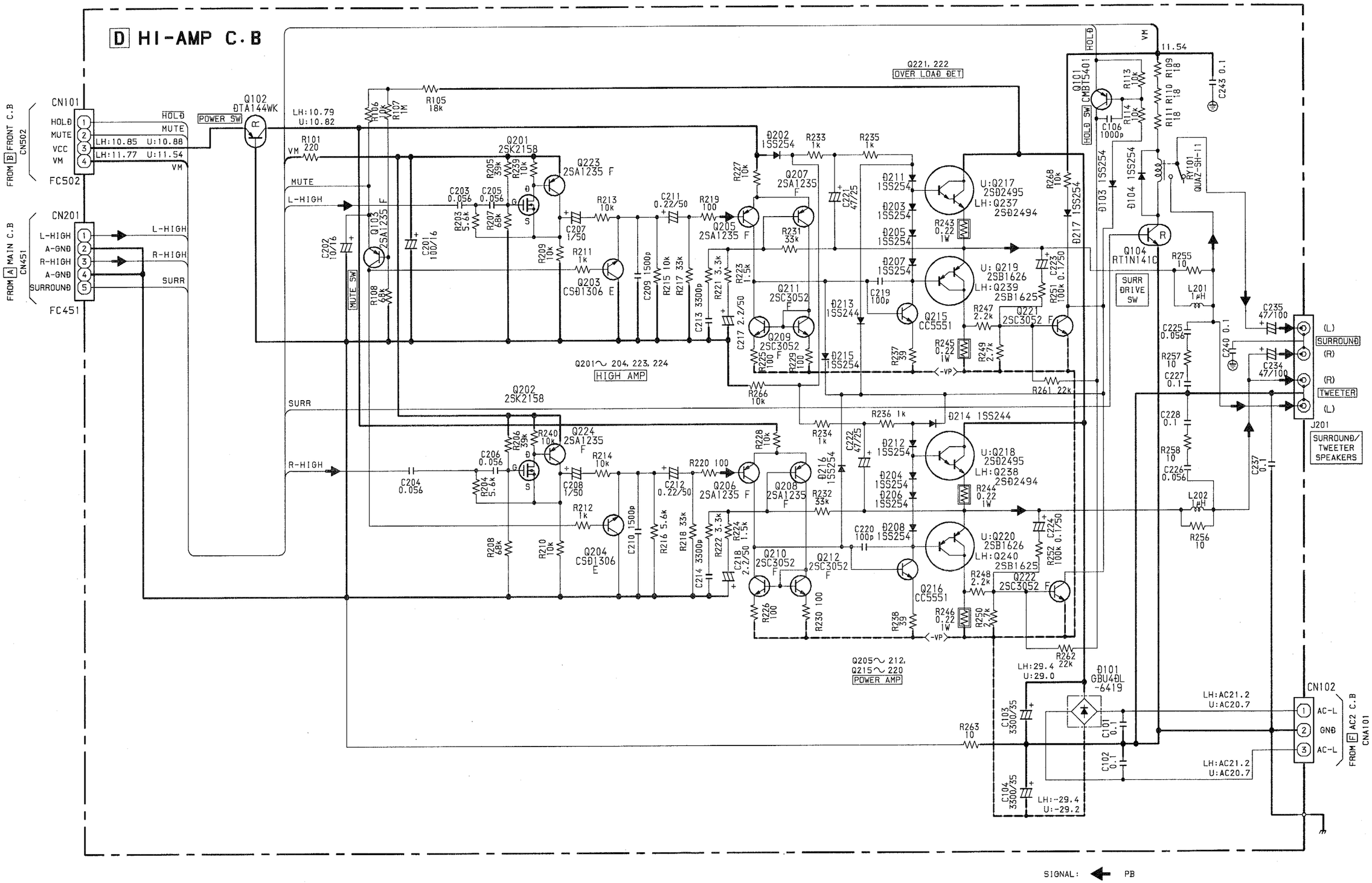
A B C D E F G H I J

FROM B
FRONT C.B
CN502
FC502
1 2 3 4

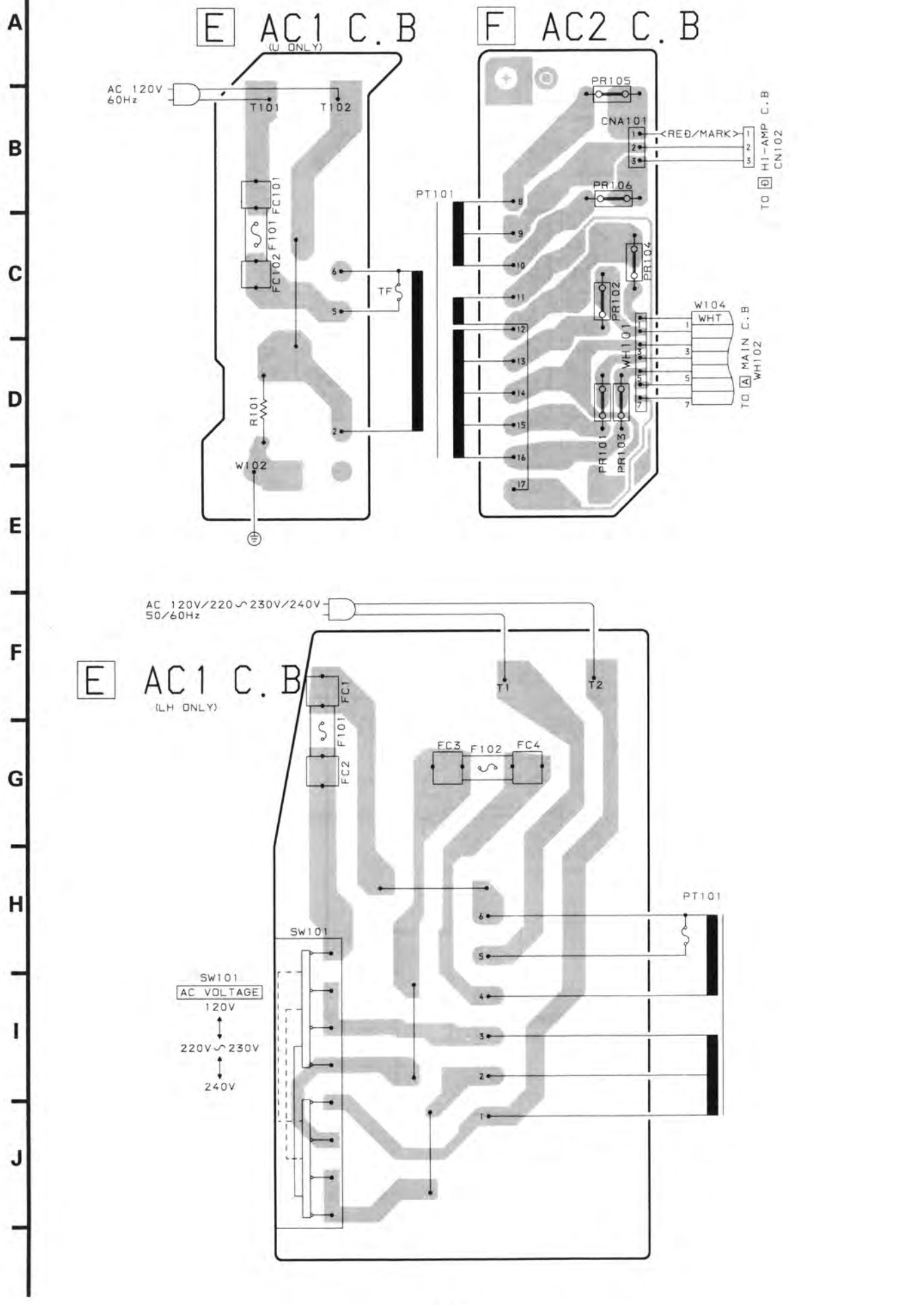
FROM A
MAIN C.B
CN451
FC451
1 2 3 4 5

Đ HI-AMP C.B

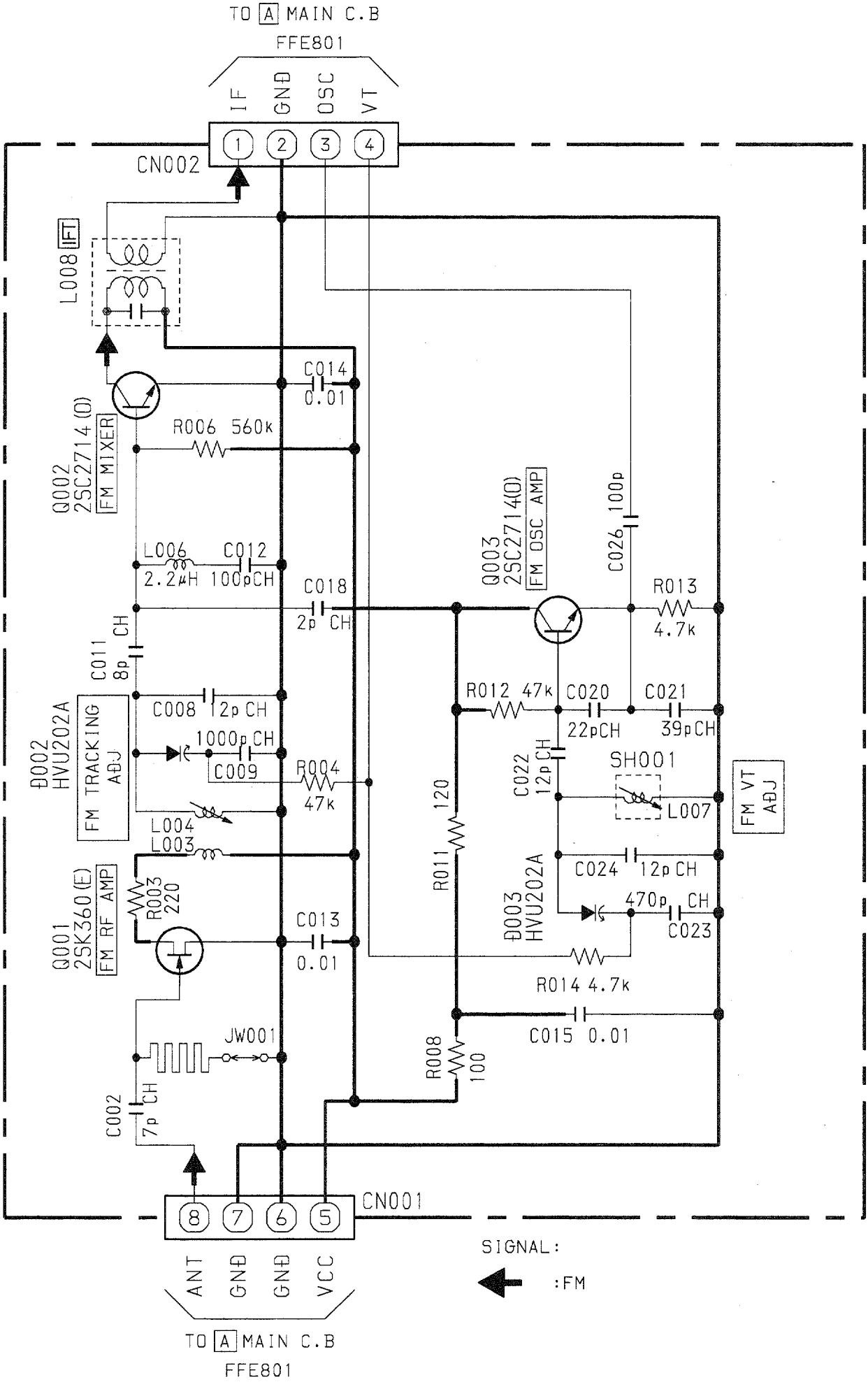


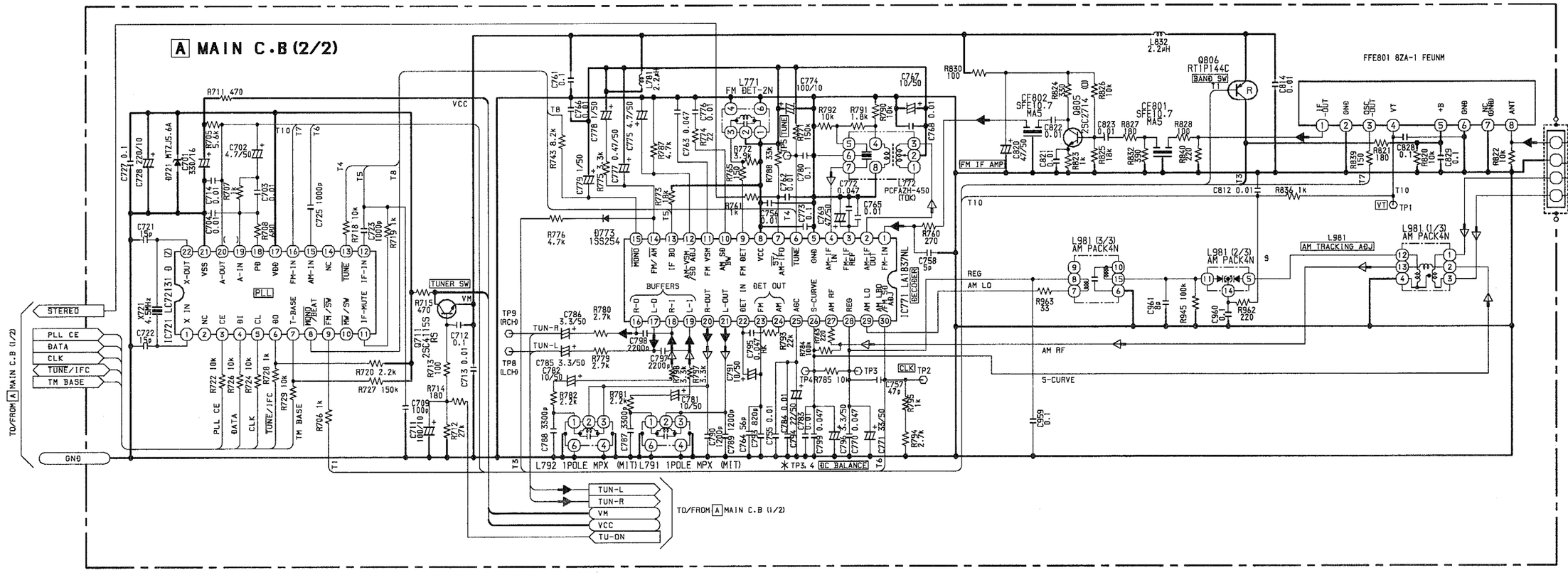

D HI-AMP C.B
FROM B FRONT C.B CN502
FC502
CN101
HOLD
MUTE
LH:10.85 U:10.88
VCC
LH:11.77 U:11.54
VM
FROM A MAIN C.B CN451
FC451
CN201
L-HIGH
A-GND
R-HIGH
A-GND
SURROUND
SURR
POWER SW
Q102 DTA144WK
LH:10.79 U:10.82
R101 220
R105 18k
R106 10k
R107 1M
MUTE
L-HIGH
R-HIGH
SURR
Q201 2SK2158
Q223 2SA1235 F
Q202 2SK2158
Q224 2SA1235 F
Q103 2SA1235 F
Q203 CSD1306 E
Q204 CSD1306 E
Q205 2SA1235 F
Q206 2SA1235 F
Q207 2SA1235 F
Q208 2SA1235 F
Q209 2SC3052 F
Q210 2SC3052 F
Q211 2SC3052
Q212 2SC3052 F
Q201~ 204, 223, 224 HIGH AMP
Q205~ 212, Q215~ 220 POWER AMP
Q221, 222 OVER LOAD DET
MUTE SW
C201 100/16
C202 10/16
C203 0.056
C204 0.056
C205 0.056
C206 0.056
C207 1/50
C208 1/50
C209 1500p
C210 1500p
C211 0.22/50
C212 0.22/50
C213 3300p
C214 3300p
C217 2.2/50
C218 2.2/50
R203 5.6k
R204 5.6k
R205 39k
R206 39k
R207 68k
R208 68k
R209 10k
R210 10k
R211 1k
R212 1k
R213 10k
R214 10k
R215 10k
R216 5.6k
R217 33k
R218 33k
R219 100
R220 100
R221 3.3k
R222 3.3k
R223 1.5k
R224 1.5k
R225 100
R226 100
R227 10k
R228 10k
R229 100
R230 100
R231 33k
R232 33k
R233 1k
R234 1k
R235 1k
R236 1k
R237 39
R238 39
R239 10k
R240 10k
R243 0.22 1W
R244 0.22 1W
R245 0.22 1W
R246 0.22 1W
R247 2.2k
R248 2.2k
R249 2.7k
R250 2.7k
R251 100k 0.1/50
R252 100k 0.1/50
R255 10
R256 10
R257 10
R258 10
R261 22k
R262 22k
R263 10
R266 10k
R268 10k
C219 100p
C220 100p
C221 47/25
C222 47/25
C223 0.1/50
C224 0.1/50
C225 0.056
C226 0.056
C227 0.1
C228 0.1
C234 47/100
C235 47/100
C237 0.1
C240 0.1
C243 0.1
C101 0.1
C102 0.1
C103 3300/35
C104 3300/35
C106 1000p
D202 1SS254
D203 1SS254
D204 1SS254
D205 1SS254
D206 1SS254
D207 1SS254
D208 1SS254
D211 1SS254
D212 1SS254
D213 1SS244
D214 1SS244
D215 1SS254
D216 1SS254
D217 1SS254
D103 1SS254
D104 1SS254
U:Q217 2SD2495
LH:Q237 2SD2494
U:Q218 2SD2495
LH:Q238 2SD2494
U:Q219 2SB1626
LH:Q239 2SB1625
U:Q220 2SB1626
LH:Q240 2SB1625
Q101 CMBT5401
Q104 RT1N141C
Q215 CC5551
Q216 CC5551
Q221 2SC3052 F
Q222 2SC3052 F
HOLD SW
SURR DRIVE SW
RY101 QUAZ SH-11
L201 1μH
L202 1μH
11.54
-VP
D101 GBU4DL -6419
LH:29.4 U:29.0
LH:-29.4 U:-29.2
LH:AC21.2 U:AC20.7
LH:AC21.2 U:AC20.7
CN102
AC-L
GND
AC-L
FROM E AC2 C.B CNA101
J201
(L) SURROUND
(R)
(R) TWEETER
(L)
SURROUND/ TWEETER SPEAKERS
SIGNAL: PB

WIRING – 4 (AC1 / AC2)

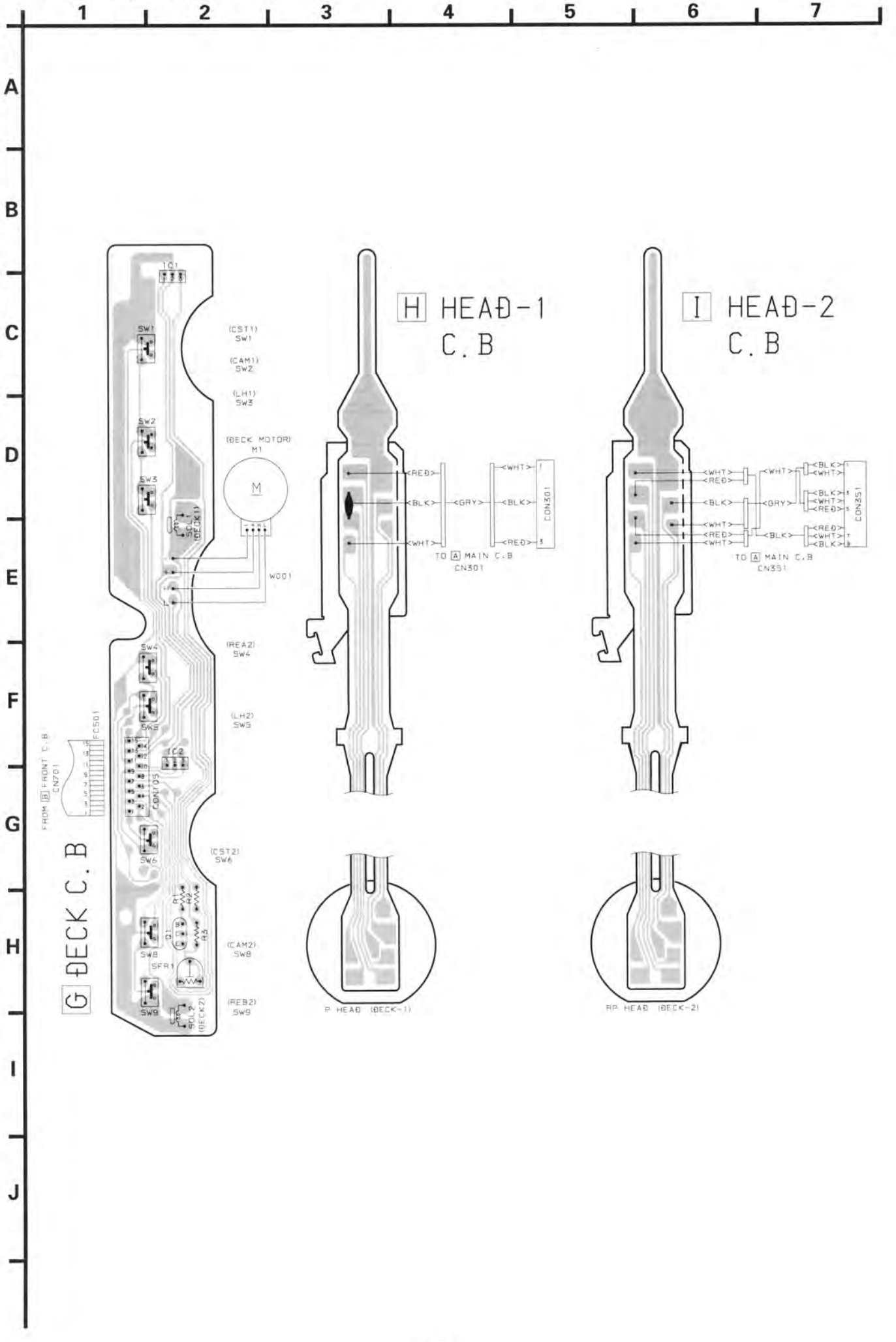


SCHEMATIC DIAGRAM – 4 (TUNER FRONT END)




A MAIN C.B (2/2)
STEREO
PLL CE
DATA
CLK
TUNE/IFC
TM BASE
GND
TO/FROM A MAIN C.B (1/2)
IC721 LC72131 (Z)
X721 4.5MHz
PLL
BUFFERS
IF BQ
IF VSM
FM VSM
FM IF
AM IF
FM-IN
AM-IN
FM-MUTE
IF-MUTE
IF-IN
L771 FM DET-2N
L772 PCFAZH-450 (TOK)
IC771 LA1837NL
DECODER
L781 2.2μH
L832 2.2μH
Q806 RT1P144C
BAND SW
FFE801 8ZA-1 FEUNM
J801 ANTENNA
FM 75Ω
AM LOOP
FM IF AMP
L981 (3/3) AM PACK4N
L981 (2/3) AM PACK4N
L981 (1/3) AM PACK4N
L981 AM TRACKING ADJ
REG
AM LO
AM RF
S-CURVE
TUNER SW
TUN-R
TUN-L
VM
VCC
TU-ON
CLK
L792 1POLE MPX (MIT)
L791 1POLE MPX (MIT)
TP3, 4 DC BALANCE
TO/FROM A MAIN C.B (1/2)

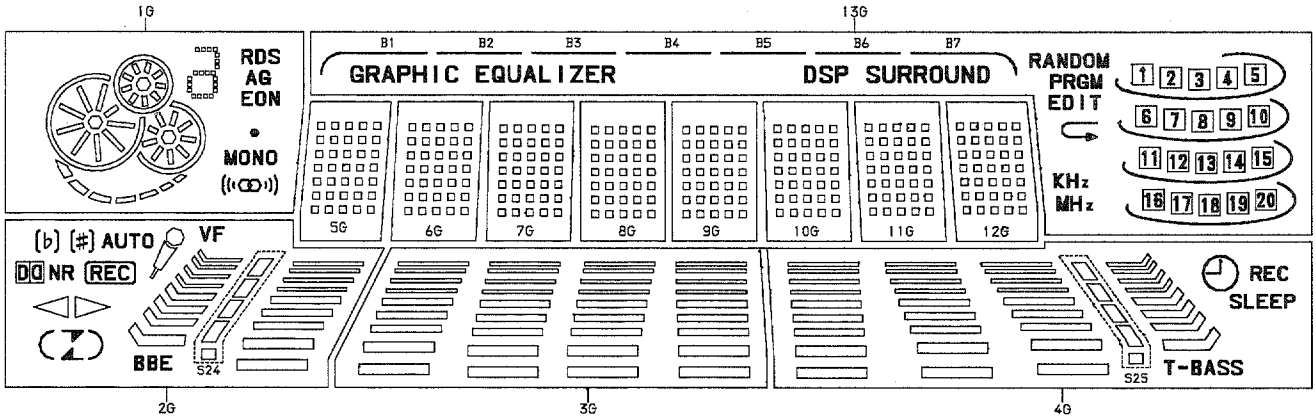
SIGNAL:
FM
AM

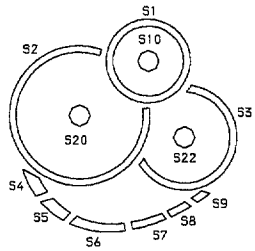

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
G DECK C.B
H HEAD-1 C.B
I HEAD-2 C.B
IC1
SW1
SW2
SW3
SW4
SW5
SW6
SW8
SW9
IC2
CONTROL
SFR1
Q1
R1
R2
R3
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(DECK MOTOR) M1
SOL1 (DECK1)
W001
(REA2) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB2) SW9
SOL2 (DECK2)
FROM B FRONT C.B CN701
FC501
<RED>
<BLK>
<WHT>
<GRY>
CON301
TO A MAIN C.B CN301
CON351
TO A MAIN C.B CN351
P HEAD (DECK-1)
RP HEAD (DECK-2)

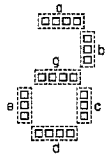
FL GRID ASSIGNMENT & ANODE CONNECTION

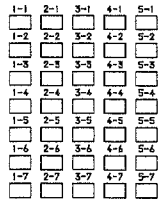
FL, BJ609GK

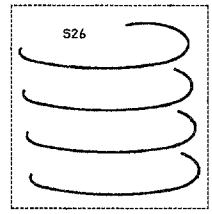
GRID ASSIGNMENT

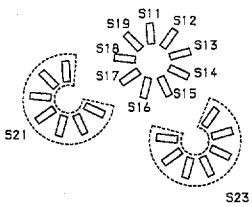




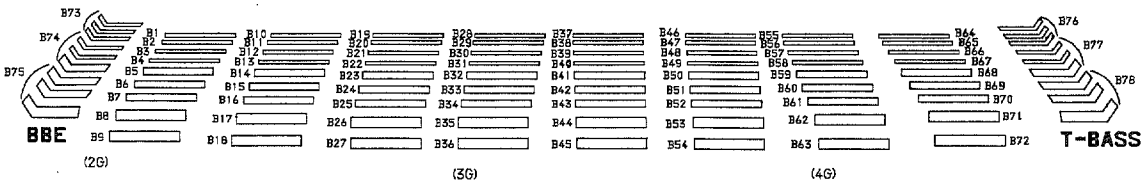








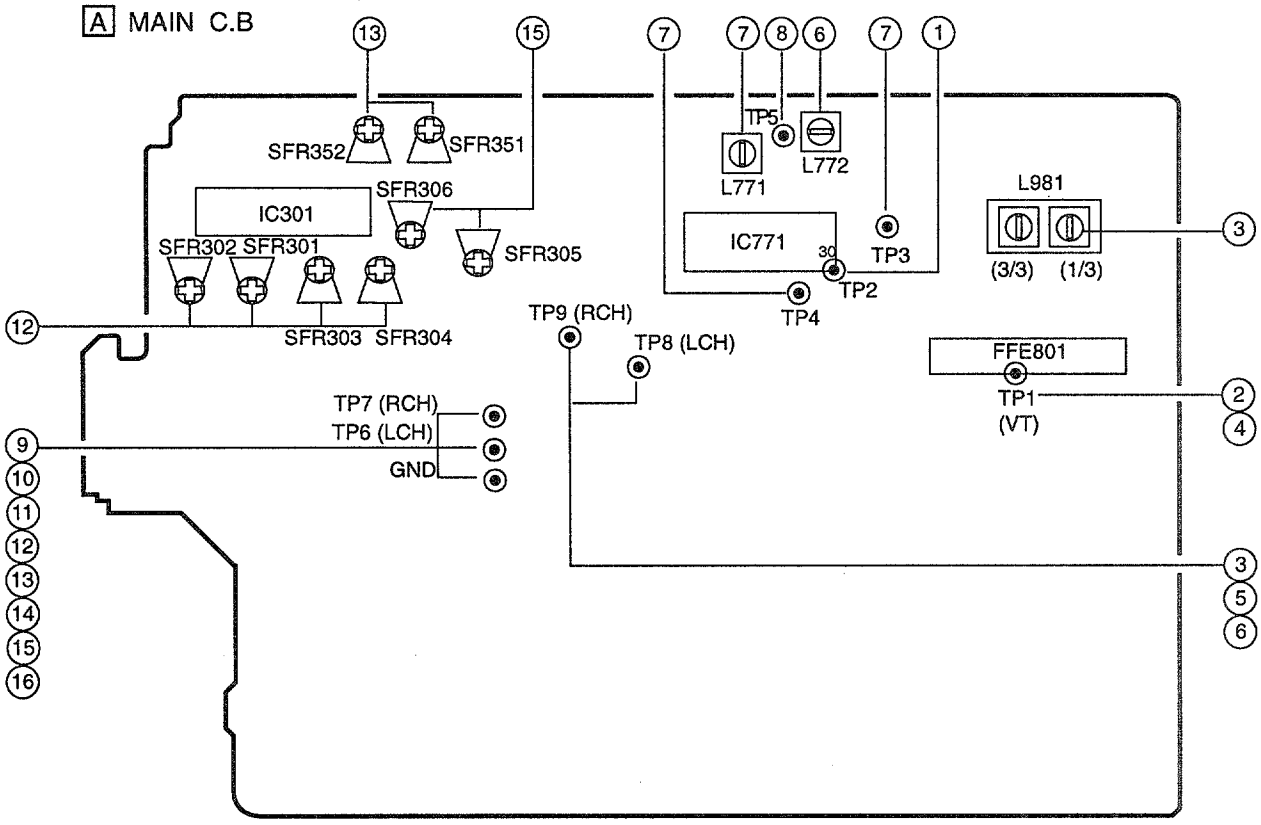
(1G)

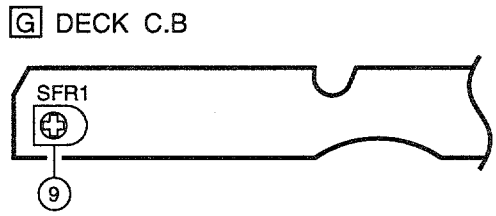


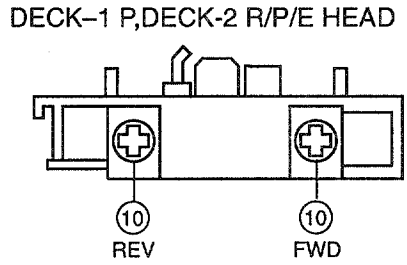
ANODE CONNECTION

	1G	2G	3G	4G	5G-12G	13G
P1	EON	B9	B45	REC	1-1	DSP SURROUND
P2	AG	DOLBY 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	♭ ♯	B33	B69	4-3	KHz
P15	S13	(♭)	B24	B60	5-3	MHz
P16	S10	(♯)	B15	B51	1-4	S26
P17	S18	B5	B41	B78	2-4	16
P18	S14	B75	B32	B68	3-4	11

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







< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1
   Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz).

3. AM Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L981(1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L981(1/3) to MAX.

4. FM VT Check
   Settings : • Test point : TP1
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dB.

6. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L772 ..... 450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4
   • Adjustment location : L771
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V. Next, check that the distortion is less than 1.3%

8. Auto Stop Level Check
   AM
   Settings : • Input level : 52dB
   • Test point : TP5
   Method : Set to AM 1000kHz and check that the auto stop is at 52dB +10dB / -15dB.

   FM
   Settings : • Input level : 25dB
   • Test point : TP5
   Method : Set to FM 98.0MHz and check that the auto stop is at 25dB ± 10dB.

< DECK SECTION >

9. Tape Speed Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA-100
   • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

10. Head Azimuth Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA-300
    • Test point : TP6(Lch), TP7(Rch)
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.
    Next, perform on REV PLAY mode.

11. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA-300
    • Test point :TP6(Lch), TP7(Rch)
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 2dB.

12. PB Sensitivity Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA-200
    • Test point : TP6(Lch), TP7(Rch)
    • Adjustment Location : SFR301 (DECK1,Lch)
    SFR302 (DECK1,Rch)
    SFR303 (DECK2,Lch)
    SFR304 (DECK2,Rch)
    Method : Play back the test tape and adjust SFRs so that the output level at TP6,TP7 becomes 245mV± 10mV.

13. REC/PB Frequency Response Adjustment
    Settings : • Test tape : TTA-602
    • Test point : TP6(Lch), TP7(Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

14. REC/PB Frequency Response Check
    Settings : • Test tape : TTA-615
    • Test point : TP6(Lch), TP7(Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB ± 2dB.

15. REC/PB Sensitivity Adjustment
    Settings : • Test tape : TTA-602
    • Test point : TP6(Lch), TP7(Rch)
    • Input signal : 1kHz (LINE IN)
    • Adjustment location : SFR305 (Lch)
    SFR306 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and adjust SFRs so that the output of the 1kHz signals becomes 0 ± 0.5dB.

16. REC/PB Sensitivity Check
    Settings : • Test tape : TTA-615
    • Test point : TP6(Lch), TP7(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and check that the output is 0 ± 1.5dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

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

<MW SECTION>

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

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15%
	(W.R.M.S)
Take-up torque :	30 ~ 55g-cm
	(FWD, REV)
F.F torque :	75 ~ 160g-cm
REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm
	(FWD, REV)
PB output level :	245mV± 1dB
	(SP OUT 2V)
REC/PB output level :	-3.0dB ± 1dB (NORM)
	-3.5dB ± 1dB (CrO_2)
	(SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
	(NORM, CrO_2)
Noise level (PB) :	Less than 2.0mV
	(NORM, SP OUT 2V)
Noise level (REC/PB) :	Less than 3.0mV
	(NORM, SP OUT 2V)
Erasing ratio :	More than 60dB
	(at 125Hz, +10VU)
Test tape :	TTA-602 (NORMAL)
	TTA-615 (CrO_2)

IC DESCRIPTION

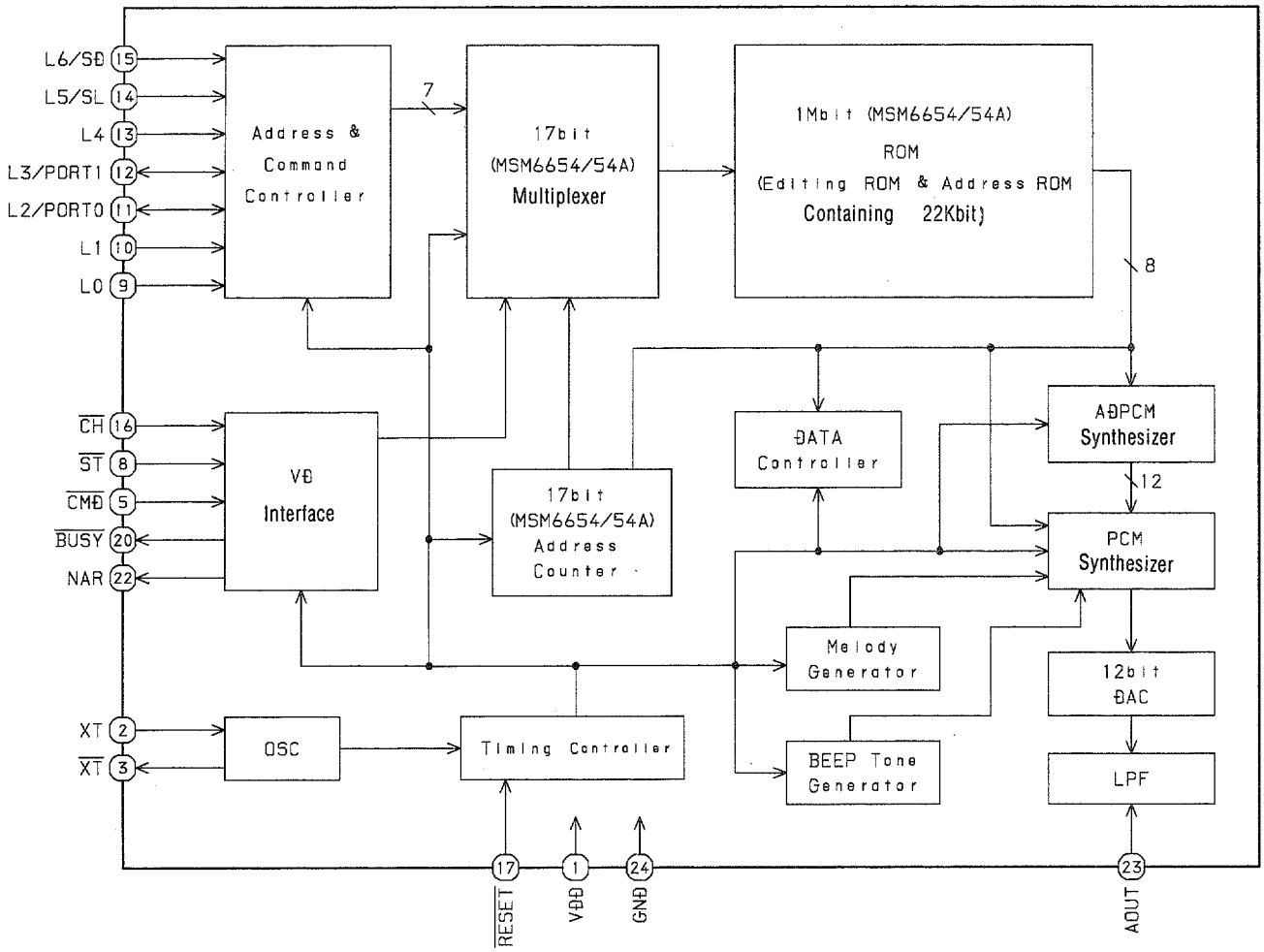
IC, LC866560W-5G73

Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	$\overline{\text{O-LED}}$	O	LED $\overline{\text{ON}}$/OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	$\overline{\text{RESET}}$ (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	$\overline{\text{I-MIC}}$	I	Microphone input for AUTO VF display.
12	$\overline{\text{RESET}}$	I	Reset input.
13	I-$\overline{\text{HP-MUTE}}$	I	Headphone input for MUTE by PROLOGIC.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detected input. "H" normal operation, "L" main power cannot be turned on.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-JOG	I	JOG dial A/D level input.
25	I-TU-SIG/$\overline{\text{MS}}$	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-$\overline{\text{RMC}}$	I	System remote control signal input.
30~41	G13~G2	O	FL GRID output G2~G13.
42, 43	P36, P35	O	FL SEGMENT output P35, P36.
44	G1	O	FL GRID output G1.
45	P34	O	FL SEGMENT output P34.
46	VDD3	–	Power supply input.
47	SPEANA-A/P33	O	Spectrum analyzer band switching output /FL segment P33 output.
48	SPEANA-B/P32	O	Spectrum analyzer band switching output /FL segment P32 output.
49	SPEANA-C/P31	O	Spectrum analyzer band switching output /FL segment P31 output.
50	P30/$\overline{\text{GAME}}$	I/O	FL segment P30 output / GAME input to diode.
51	VP	–	Power supply input for FL display.
52	P29/AM-ST	I /O	FL segment P29 output / AM-ST input to diode.
53	P28/LW	I/O	FL segment P28 output / LW input to diode.
54	P27/SW	I/O	FL segment P27 output / SW input to diode.

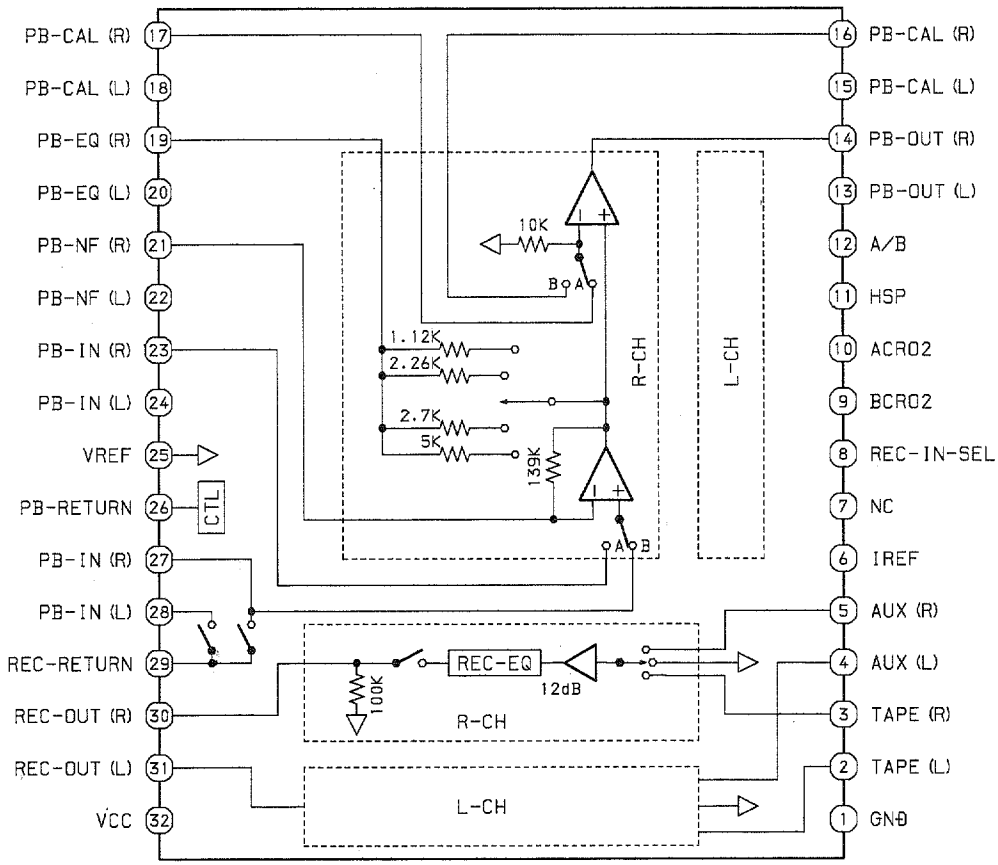
Pin No.	Pin Name	I/O	Description
55	P26/FM 1	I/O	FL segment P26 output / FM1 (OIRT) input to diode.
56	P25/RDS	I/O	FL segment P25 output / RDS input to diode.
57	P24/R+1	I/O	FL segment P24 output / RVS+1 way input to diode.
58	P23/$\overline{\text{DSP}}$	I/O	FL segment P23 output / $\overline{\text{DSP}}$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

IC BLOCK DIAGRAM

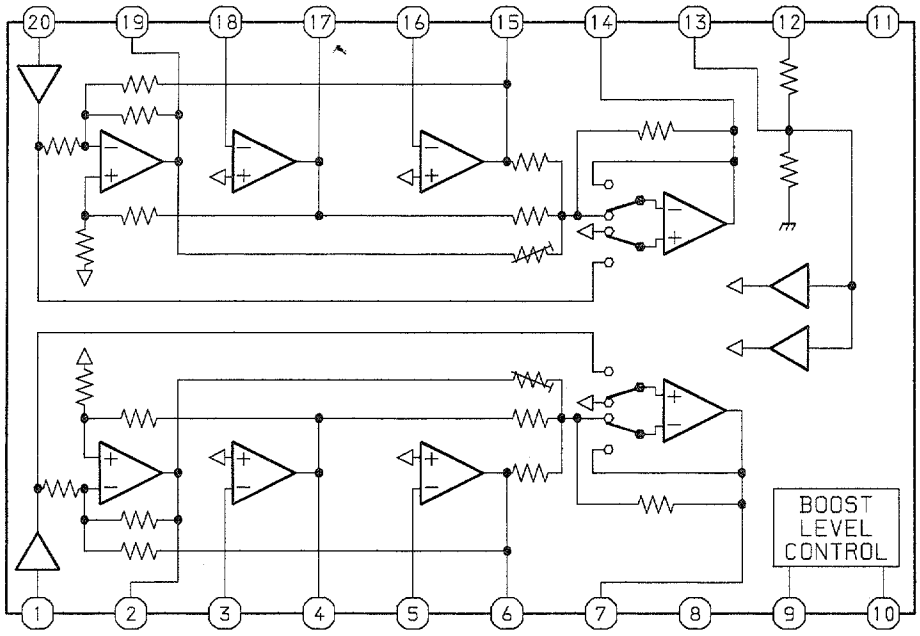
IC, MSM6654A-521GS-KR1



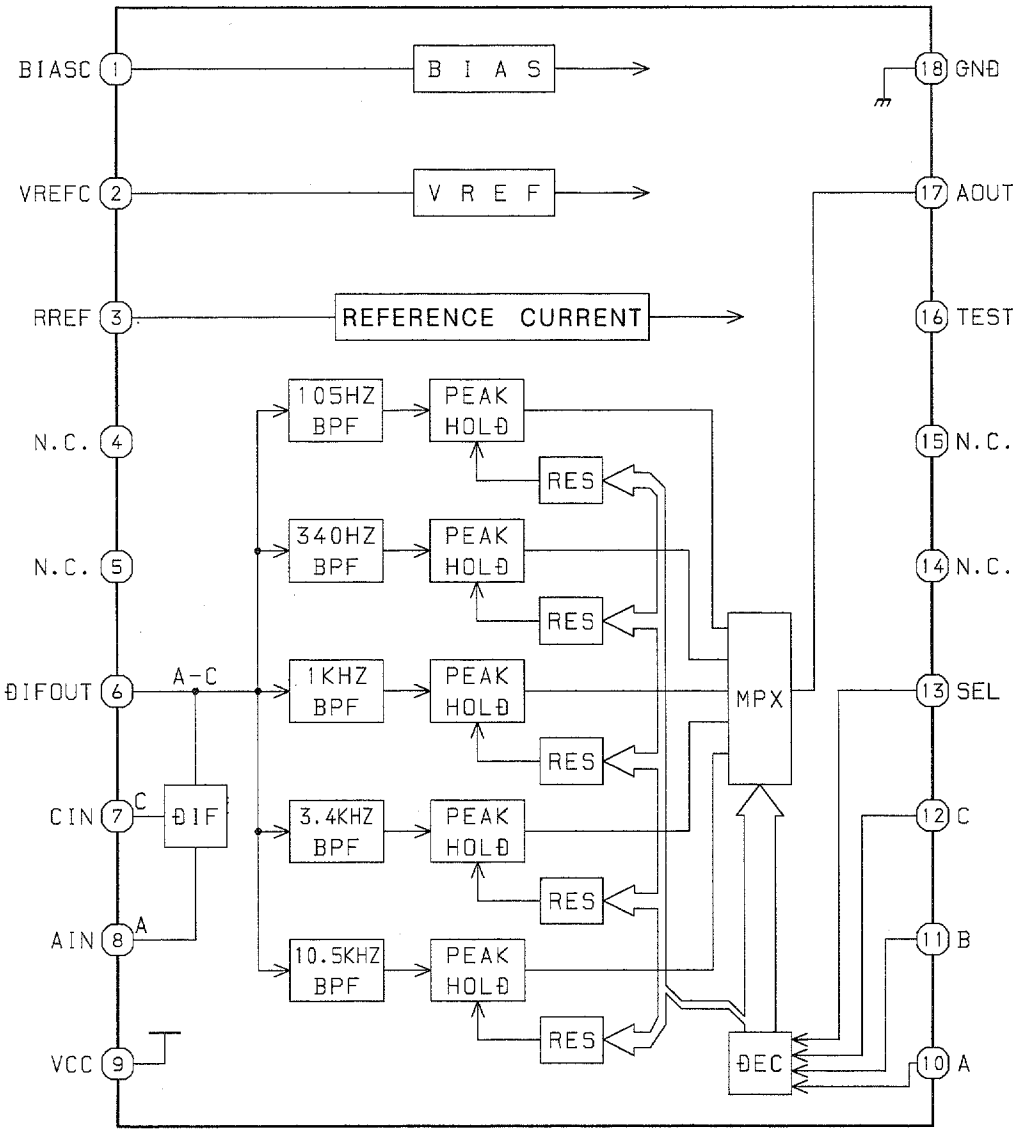
IC, BA7762FS



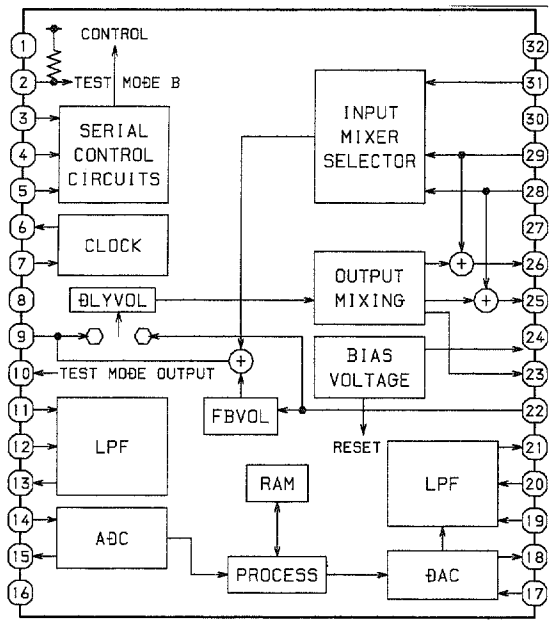
IC, NJM2152M



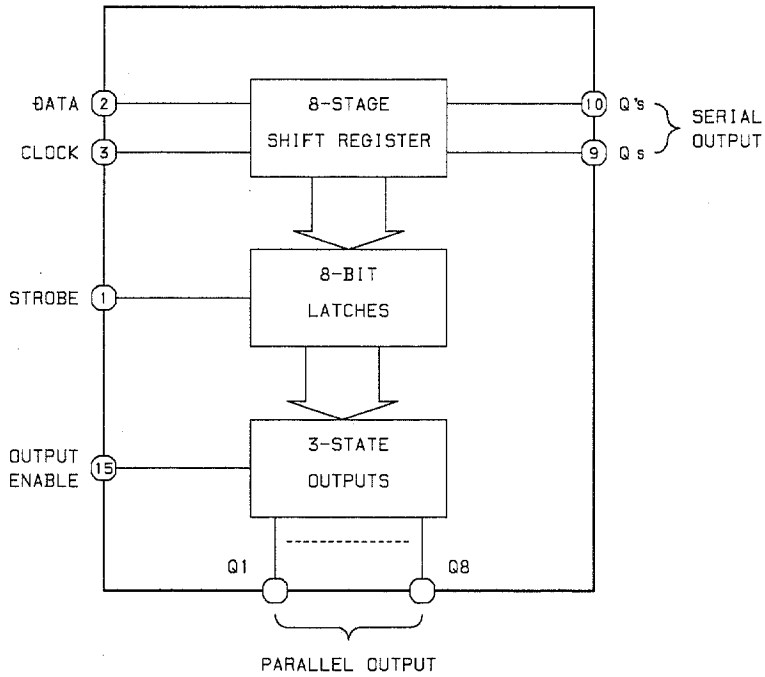
IC, BA3835S



IC, BU9262FS



IC, BU4094BCP/BCF



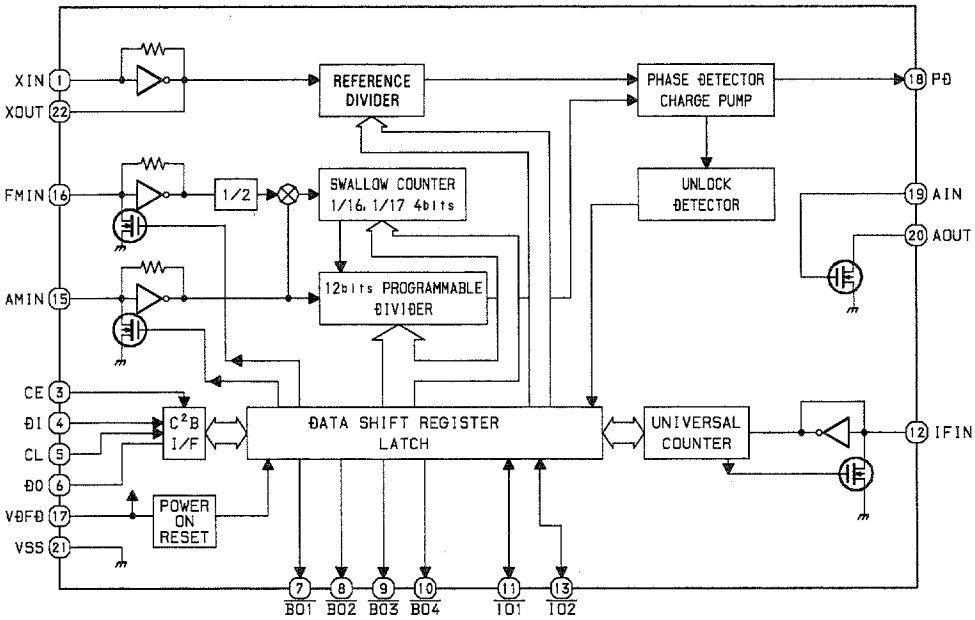
TRUTH TABLE

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

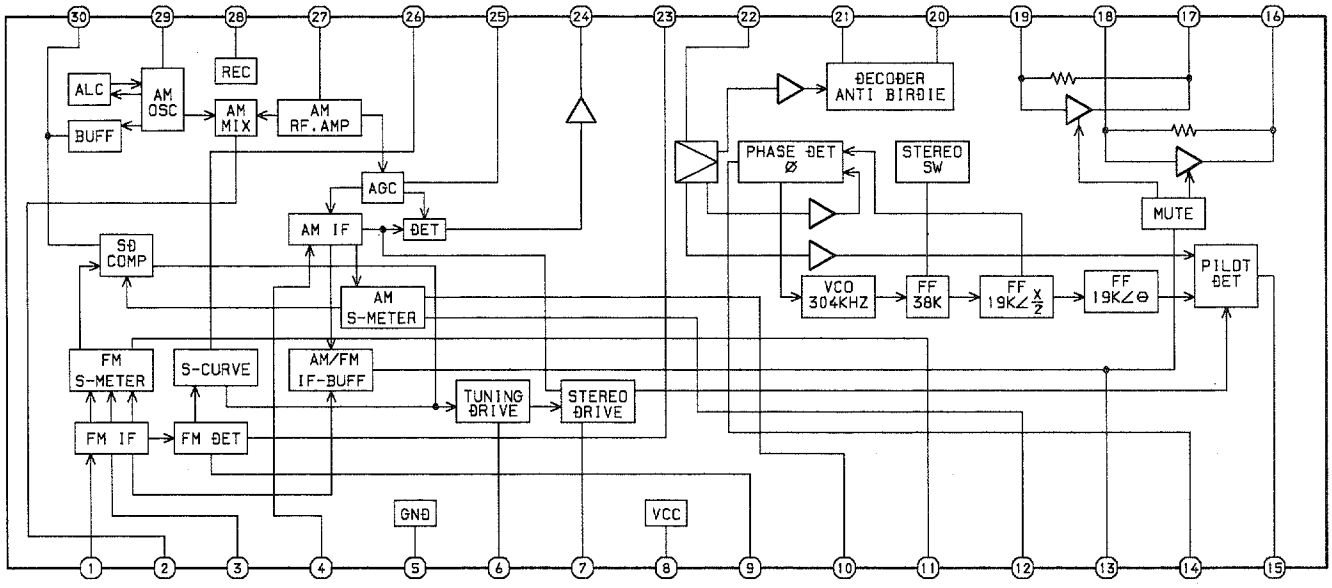
Z=High Impedance

X=Don't Care

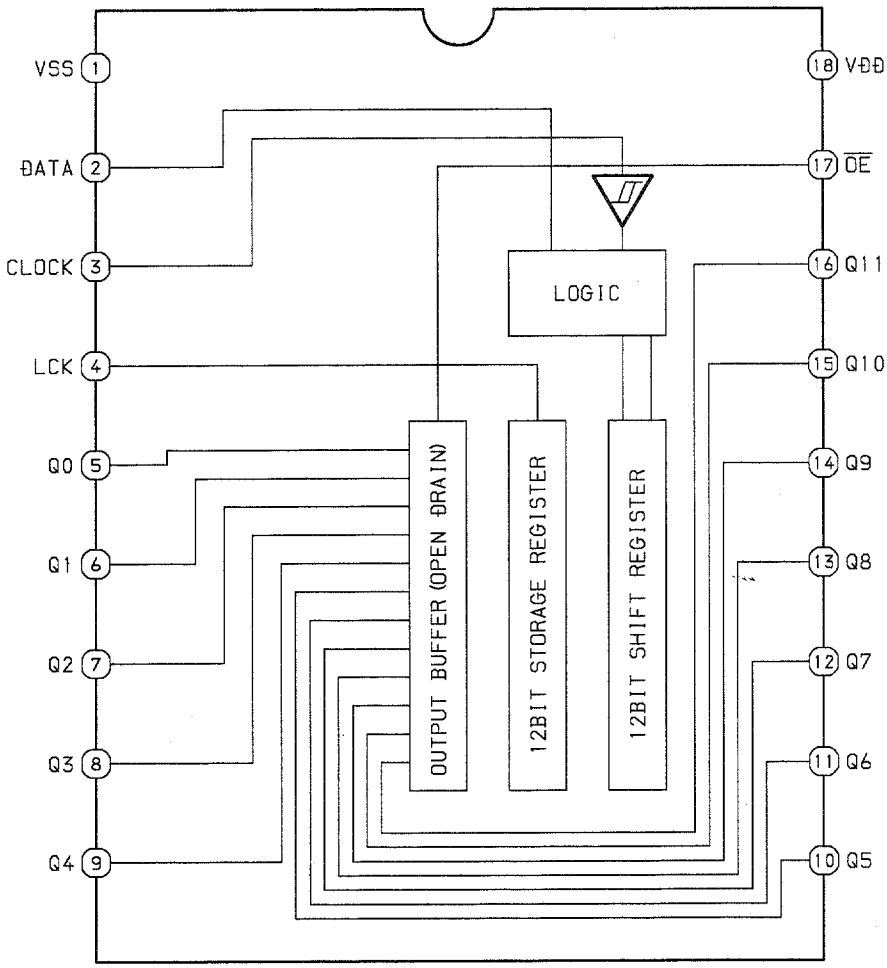
IC, LC72131D



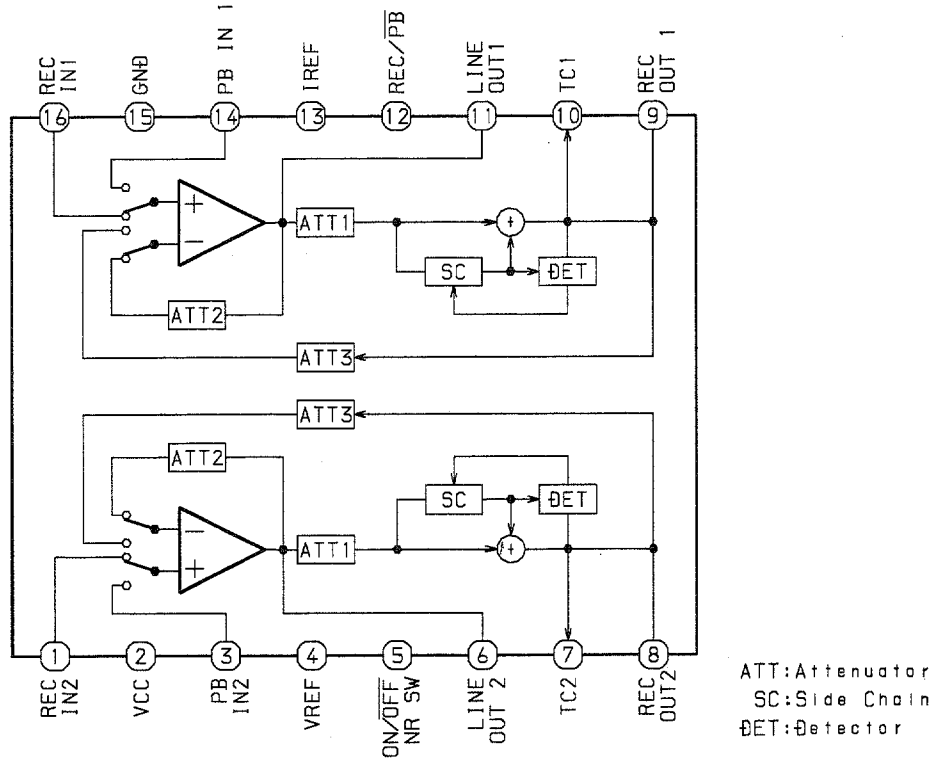
IC, LA1837



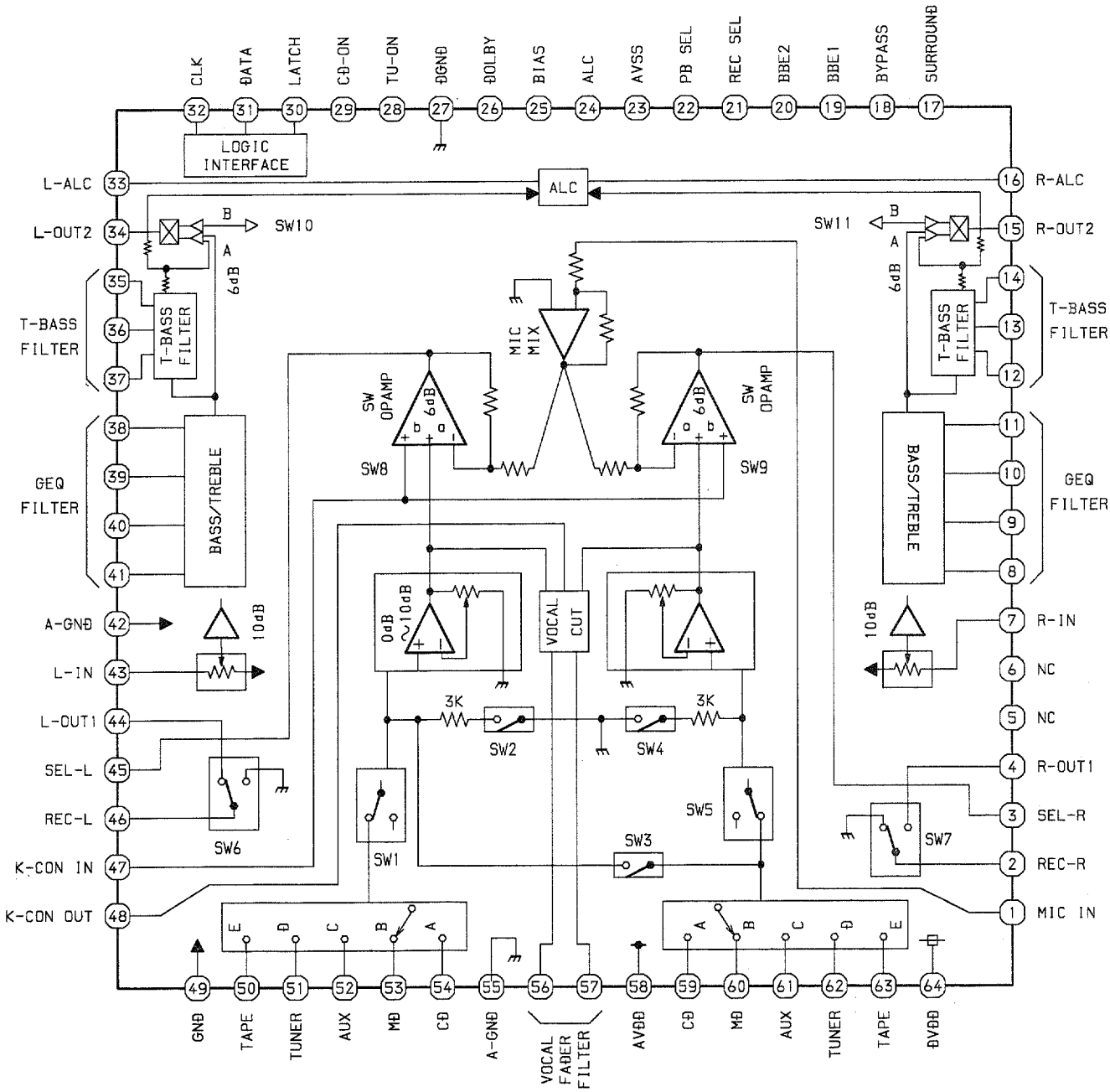
IC, BU2092F



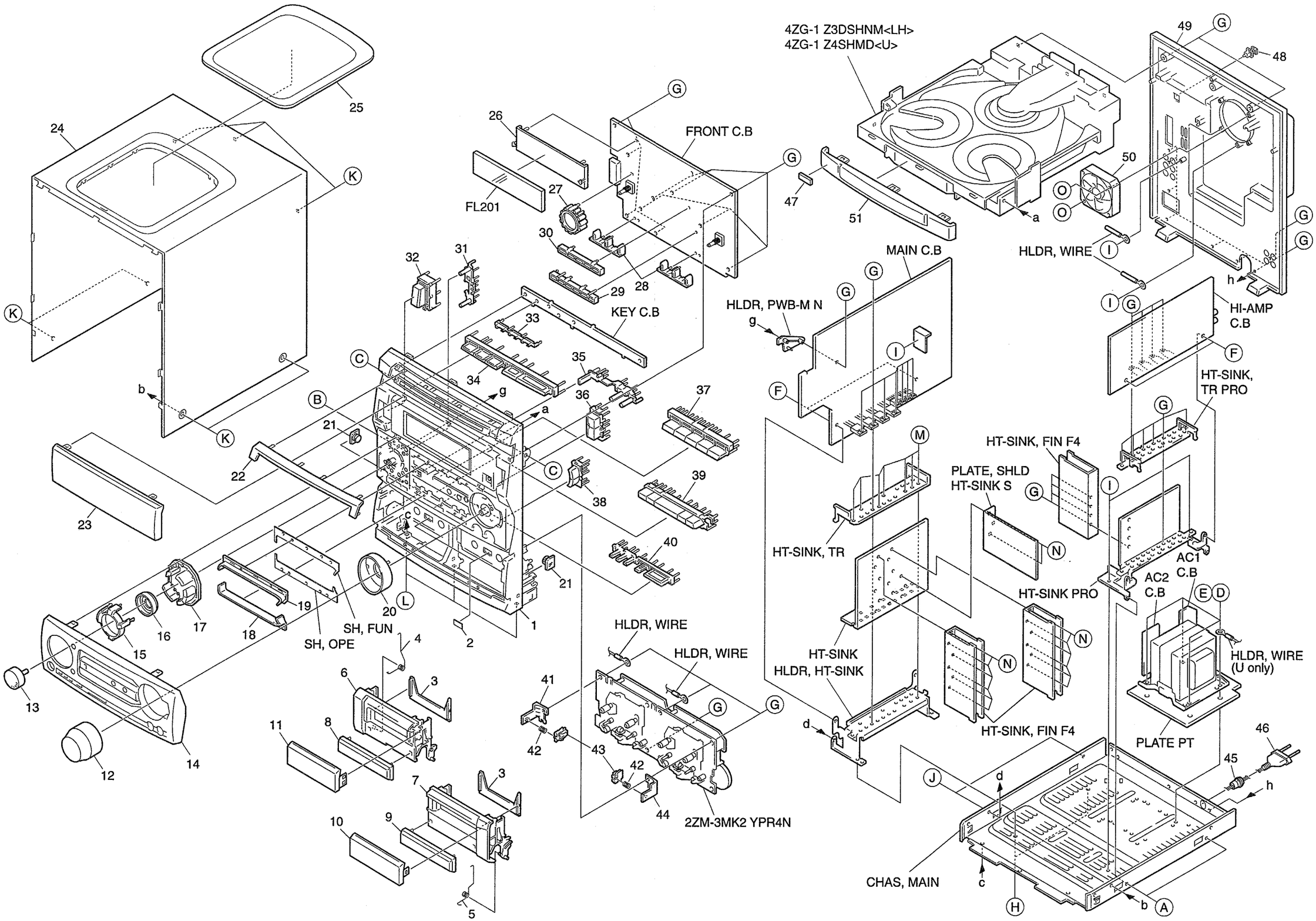
IC, CXA1553P



IC, M62445FP-601



MECHANICAL EXPLODED VIEW 1 / 1

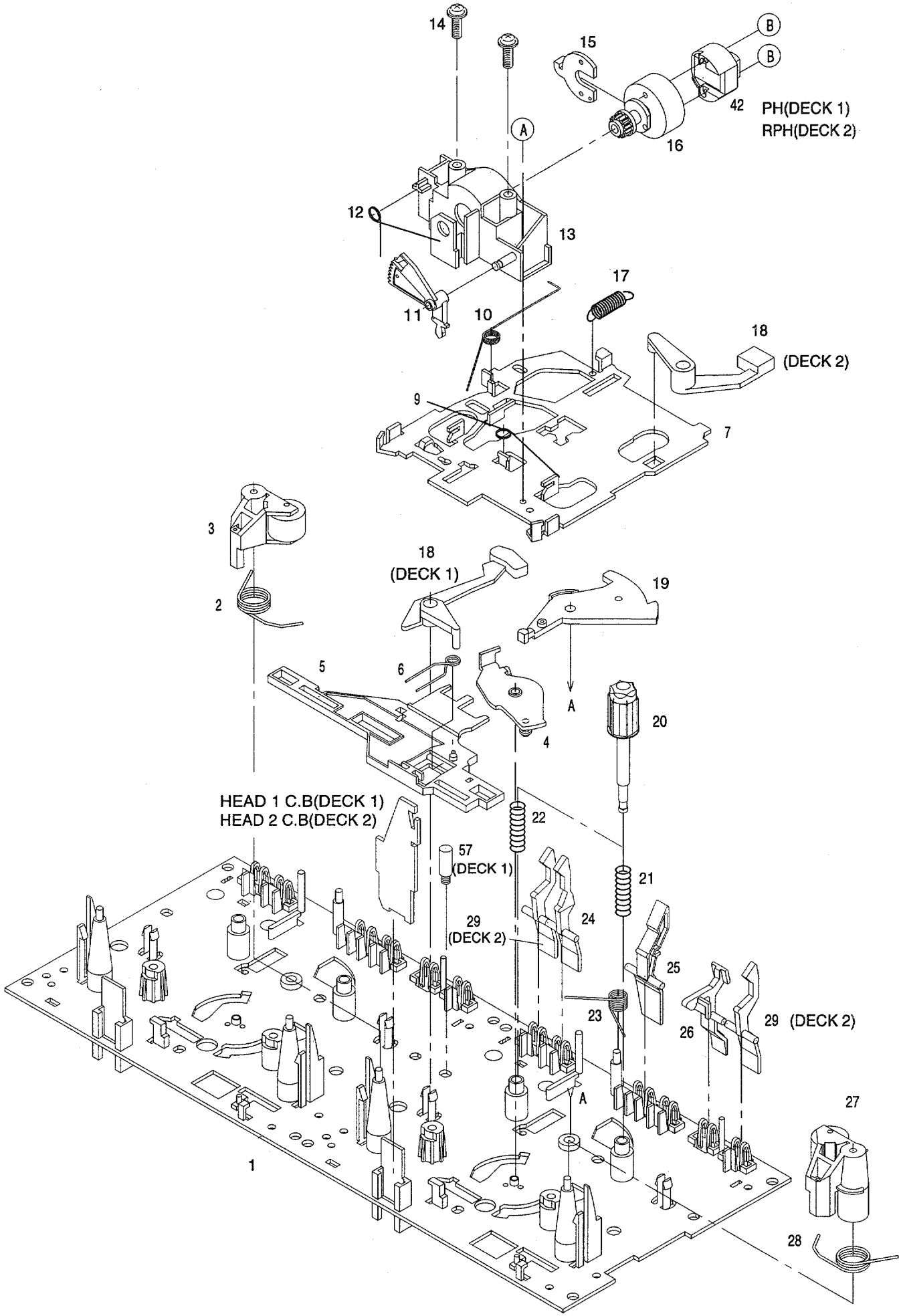


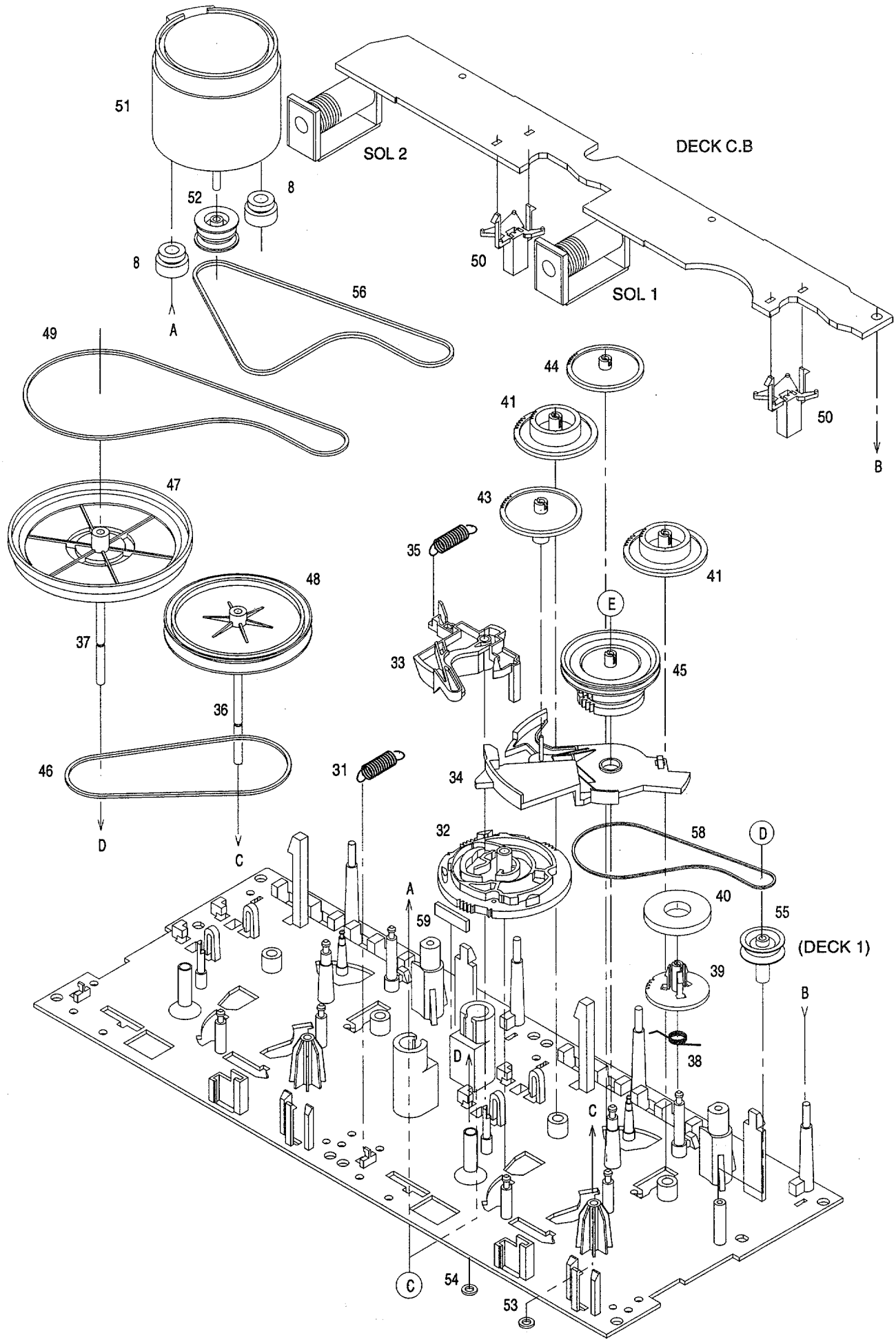
MECHANICAL PARTS LIST 1 / 1

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

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

TAPE MECHANISM EXPLODED VIEW 1 / 1



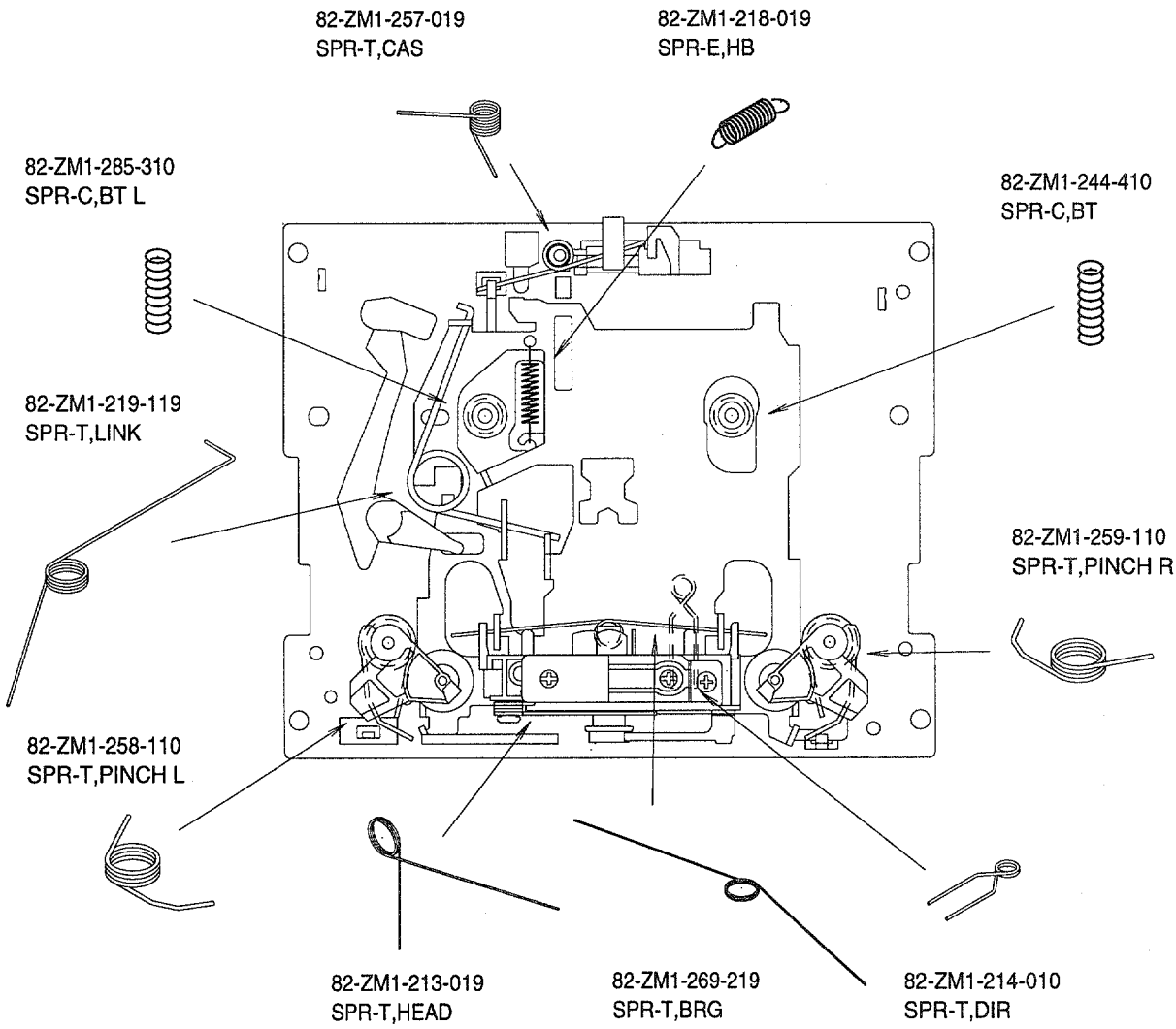

51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
49
44
41
50
B
47
43
35
41
48
E
37
33
45
36
46
31
34
D
C
32
58
D
A
40
55
(DECK 1)
59
39
B
38
D
C
C
54
53

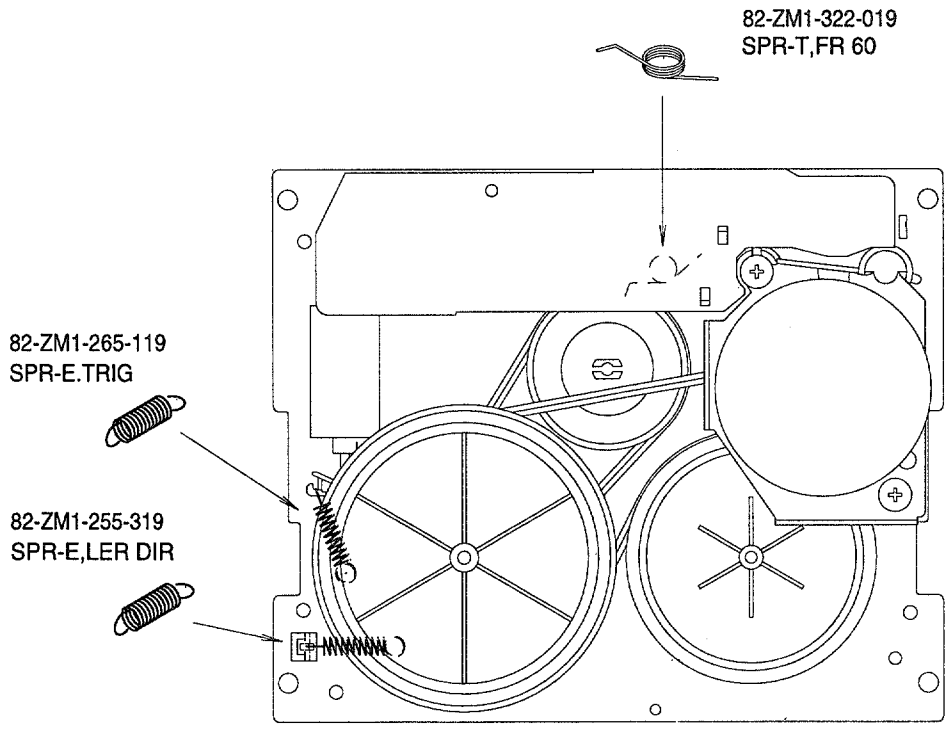
TAPE MECHANISM PARTS LIST 1 / 1

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

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

SPRING APPLICATION POSITION



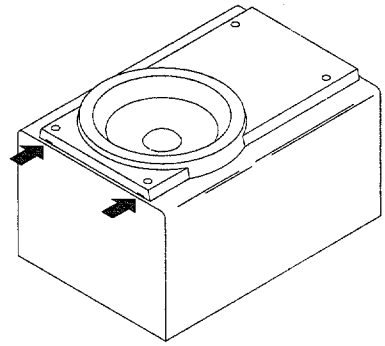


SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

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

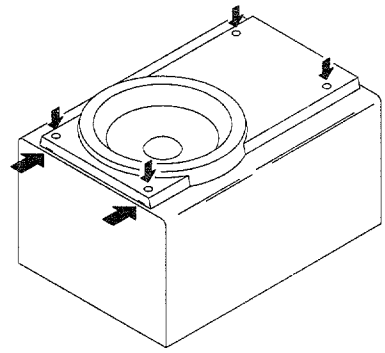
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

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

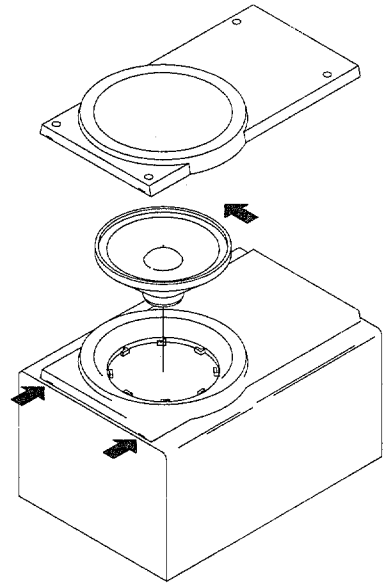
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

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

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



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

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

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

SX-R285 (YLSTNCC)
SPEAKER PARTS LIST

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

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

ACCESSORIES / PACKAGE LIST

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

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

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G－ －	
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