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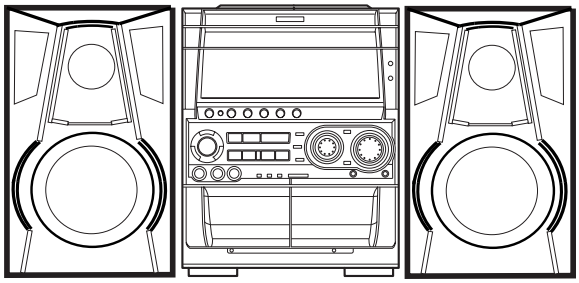
SERVICE

NSX-HMT75 U



SERVICE MANUAL

COMPACT DISC/
STEREO CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3 MK2 PR4NM
BASIC CD MECHANISM : AZG-1 ZD3RDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX–HMT75	CX–NHMT75	SX–NAJ72 SX-R275 SX-C605	RC–ZAS05

• This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-003-425-9T1).

• If requiring information about the CD mechanism, see Service Manual of AZG-1, (S/M Code No. 09-001-335-3N8).

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S/M Code No. 09-003-425-9R1

REVISION DATA

SPECIFICATIONS

FM tuner section

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

AM tuner section

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

Amplifier section

Power output	**Front** 100 W + 100 W (50 Hz – 20 kHz, THD less than 1%, 6 ohms) **Rear (Surround)** 33 W + 33 W (1 kHz, THD less than 1%, 8 ohms) **Center** 34 W (1 kHz, THD less than 1%, 8 ohms)
Total harmonic distortion	0.1 % (40 W, 1 kHz, 6 ohms, DIN AUDIO/Front)
Inputs	VIDEO/AUX: 316 mV (adjustable) MD: 316 mV (adjustable) MIC 1, MIC 2: 1 mV (10 k ohms) 5.1CH INPUT (adjustable) FRONT (L,R): 240 mV REAR (L,R): 220 mV CENTER: 370 mV SUB WOOFER: 240 mV
Outputs	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 SUBWOOFER: 1.1 V LINE OUT: 210 mV 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
Recording system	AC bias
Heads	Deck 1: Playback head × 1 Deck 2: Recording/playback head × 1, erase head × 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

General

Power requirements	120 V AC, 60 Hz
Power consumption	190 W
Power consumption in standby mode	If the power-economizing mode is ECO OFF: 30 W If the power-economizing mode is ECO ON or ECO AUTO: 0.7 W
Dimensions (W × H × D)	260 × 330 × 395 mm (10 1/4 × 13 × 15 5/8 in.)
Weight	9.5 kg (20 lbs 15 oz.)

Speaker system SX-NAJ72

Speaker system	3 way, bass reflex (magnetic shielded type)
Speaker units	Woofer: 140 mm (5 5/8 in.) cone type Tweeter: 60 mm (2 3/8 in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Sensitivity	87 dB/W/m
Dimensions (W × H × D)	240 × 324 × 270 mm (9 1/2 × 12 7/8 × 10 3/4 in.)
Weight	4.5 kg (9 lbs 15 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY", and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

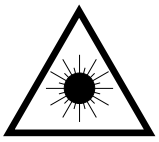
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NFU-903-010		IB,U(ESF)M
2	8Z-NFV-702-010		RC UNIT,RC-ZAS05
3	87-006-225-010		ANT,LOOP ANT NC2
4	87-043-115-010		FEEDER-ANT,FM

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: Usynling 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.

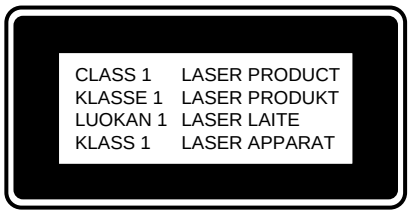
ATTENTION

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.

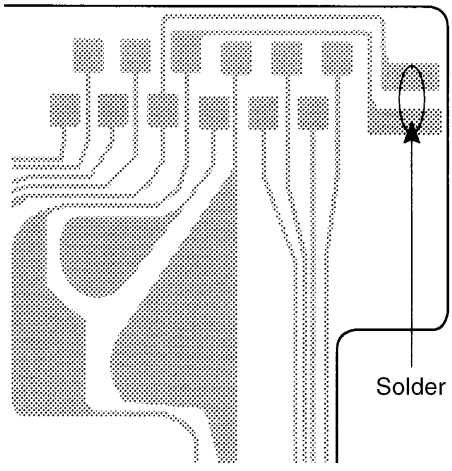


Precaution to replace Optical block (KSS-213F)

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 the right figure.

PICK-UP Assy P.C.B



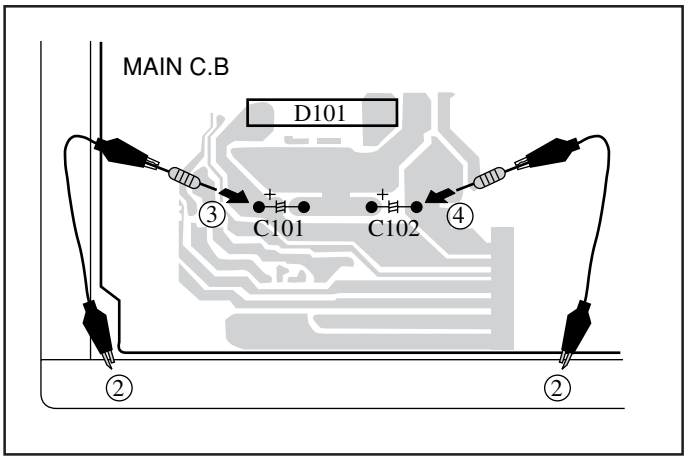
NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

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

Discharge procedure

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



Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

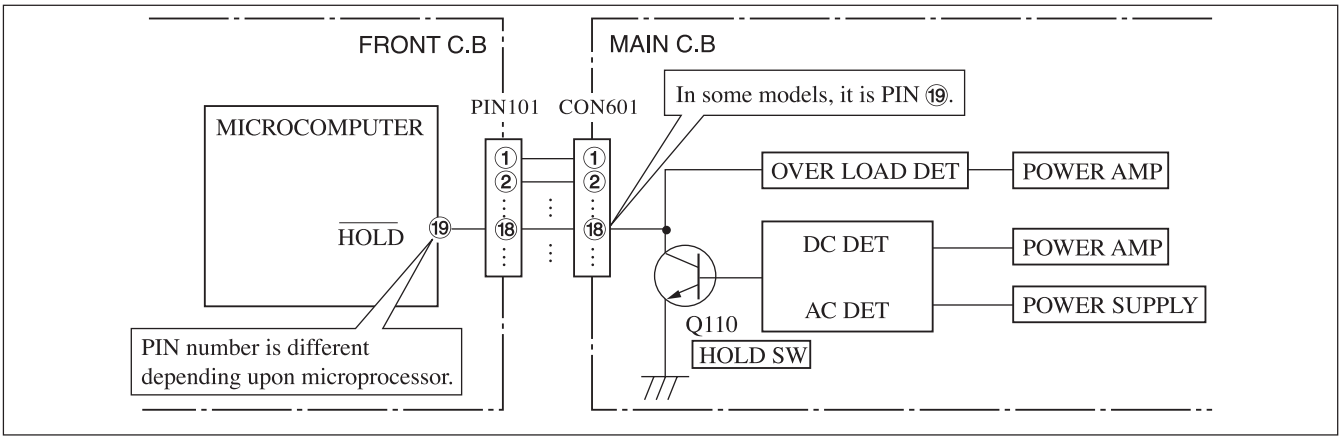


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

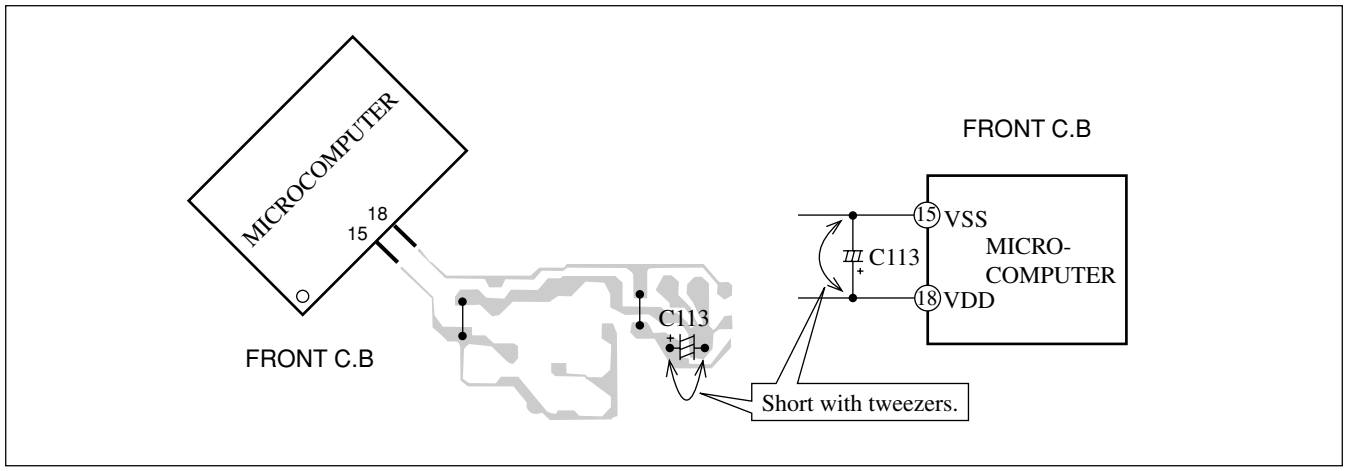


Fig-2-2

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

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

2-3. Confirmation of soldering state of MICROCOMPUTER

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

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	8A-NF6-605-130		C-IC,LC876572V5P39
	87-A21-355-010		IC,STK490-140
	87-A21-397-010		IC,STK490-070
	87-A21-482-010		IC,RPM6938-H4
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-577-040		C-IC,M61506FP
	87-A21-021-040		C-IC,BU2099FV
	87-A21-097-040		C-IC,M62463AFP
	87-070-289-040		C-IC,BU2092F
	87-A21-015-040		C-IC,M62491FP
	87-A21-452-030		C-IC,BD3876KS2
	87-A21-415-010		IC,LA1843
	87-070-127-110		IC,LC72131D
TRANSISTOR			
	87-026-451-080		TR,2SA933S
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-A30-198-080		TR,KTC3199GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	89-213-702-010		TR,2SB1370E
	87-A30-087-080		C-FET,2SK2158
	87-A30-107-070		C-TR,CMBT5401
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-221-080		C-TR,DTA114WK
	87-A30-106-070		C-TR,CMBT5551
	87-A30-106-080		C-TR,CMBT5551
	87-A30-190-080		TR,CC5551
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-086-070		C-TR,CSD1306E
	87-A30-202-080		C-TR,RT1P441C
	87-A30-329-080		TR,CD1585BC
	89-327-143-080		C-TR,2SC2714O
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-548-090		DIODE,D3SBA20
	87-017-654-060		DIODE,GBU6JL6131
	87-A40-547-090		DIODE,D5SBA20
	87-020-465-080		DIODE,1SS133
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ16BSA
	87-A40-752-080		ZENER,UZ6.2BSC
	87-017-495-080		DIODE,1N5393
	87-A40-754-080		ZENER,UZ6.8BSC
	87-A40-802-080		ZENER,UZ5.1BSC
	87-A40-760-080		ZENER,UZ9.1BSA
	87-017-978-080		DIODE,1N4003
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-745-080		ZENER,UZ4.7BSA
	87-017-149-080		ZENER,HZS6A2L

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C0003	87-012-368-080		C-CAP,S 0.1-50 Z F
C0004	87-012-368-080		C-CAP,S 0.1-50 Z F
C0021	87-016-658-000		CAP,E 4700-35 M SMG
C0022	87-016-658-000		CAP,E 4700-35 M SMG
C0025	87-010-405-080		CAP,E 10-50 M 11L SME
C0026	87-010-406-080		CAP,E 22-50 M 11L SME
C0027	87-010-405-080		CAP,E 10-50 M 11L SME
C0028	87-010-406-080		CAP,E 22-50 M 11L SME
C0031	87-010-263-080		CAP,E 100-10 M 11L SME
C0032	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0033	87-010-263-080		CAP,E 100-10 M 11L SME
C0034	87-010-384-080		CAP,E 100-25 M 11L SME
C0035	87-010-406-080		CAP,E 22-50 M 11L SME
C0036	87-010-381-080		CAP,E 330-16 M SME
C0038	87-010-394-080		CAP,E 220-35 M SME
C0039	87-010-394-080		CAP,E 220-35 M SME
C0040	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0060	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0080	87-016-279-080		CAP,E 1-50 M BP SME
C0081	87-010-260-080		CAP,E 47-25 M 11L SME
C0082	87-010-260-080		CAP,E 47-25 M 11L SME
C0115	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0116	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0152	87-010-260-080		CAP,E 47-25 M 11L SME
C0171	87-012-368-080		C-CAP,S 0.1-50 Z F
C0172	87-012-368-080		C-CAP,S 0.1-50 Z F
C0173	87-012-368-080		C-CAP,S 0.1-50 Z F
C0174	87-012-368-080		C-CAP,S 0.1-50 Z F
C0301	87-010-318-080		C-CAP,S 47P-50 J CH GRM
C0302	87-010-318-080		C-CAP,S 47P-50 J CH GRM
C0303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0305	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0306	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0311	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0312	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0313	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0314	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0315	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0316	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0321	87-012-142-080		C-CAP,S 0.33-16 Z F GRM
C0322	87-012-142-080		C-CAP,S 0.33-16 Z F GRM
C0324	87-010-260-080		CAP,E 47-25 M 11L SME
C0325	87-010-370-080		CAP,E 330-6.3 M SME
C0327	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0328	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0335	87-010-401-080		CAP,E 1-50 M 11L SME
C0336	87-010-401-080		CAP,E 1-50 M 11L SME
C0337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0351	87-012-140-080		C-CAP,S 470P-50 J CH
C0352	87-012-140-080		C-CAP,S 470P-50 J CH
C0354	87-010-175-080		C-CAP,S 560P-50 J SL
C0355	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0356	87-010-260-080		CAP,E 47-25 M 11L SME
C0357	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0358	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0359	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0360	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0363	87-A10-292-080		CAP,M 5600P-50 J
C0370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0373	87-016-083-080		C-CAP,S 0.15-16 K R
C0374	87-016-083-080		C-CAP,S 0.15-16 K R

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0379	87-010-382-080		CAP,E 22-25 M 11L SME
C0380	87-010-382-080		CAP,E 22-25 M 11L SME
C0381	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0382	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0383	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0384	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0387	87-012-145-080		C-CAP,S 270P-50 J CH GRM
C0388	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0391	87-010-319-080		C-CAP,S 56P-50 J CH
C0392	87-010-319-080		C-CAP,S 56P-50 J CH
C0393	87-010-319-080		C-CAP,S 56P-50 J CH
C0394	87-010-319-080		C-CAP,S 56P-50 J CH
C0401	87-010-176-080		C-CAP,S 680P-50 J SL
C0402	87-010-176-080		C-CAP,S 680P-50 J SL
C0403	87-010-958-080		C-CAP,S 0.01-25 J B
C0404	87-010-958-080		C-CAP,S 0.01-25 J B
C0405	87-010-958-080		C-CAP,S 0.01-25 J B
C0406	87-010-958-080		C-CAP,S 0.01-25 J B
C0407	87-010-401-080		CAP,E 1-50 M 11L SME
C0408	87-010-401-080		CAP,E 1-50 M 11L SME
C0409	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0410	87-010-112-080		CAP,E 100-16 M 11L SME
C0411	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0412	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0413	87-010-401-080		CAP,E 1-50 M 11L SME
C0414	87-010-401-080		CAP,E 1-50 M 11L SME
C0415	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0416	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0417	87-010-221-080		CAP,E 470-10 M SME
C0418	87-A10-891-080		CAP,E 4.7-25 SME(K)
C0419	87-A10-800-080		C-CAP,S 6800P-16 J B CM
C0420	87-010-374-080		CAP,E 47-10 M 11L SME
C0421	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0422	87-A10-804-080		C-CAP,S 0.1-25 J B
C0424	87-010-374-080		CAP,E 47-10 M 11L SME
C0425	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0429	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0430	87-012-142-080		C-CAP,S 0.33-16 Z F GRM
C0431	87-010-971-080		C-CAP,S 4700P-50 J B
C0432	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C0433	87-A11-183-080		C-CAP,S 0.12-16 J B
C0434	87-A11-182-080		C-CAP,S 0.27-16 J B
C0435	87-A11-182-080		C-CAP,S 0.27-16 J B
C0436	87-A11-183-080		C-CAP,S 0.12-16 J B
C0437	87-010-971-080		C-CAP,S 4700P-50 J B
C0438	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C0439	87-010-805-080		C-CAP,S 1-16 Z F
C0440	87-010-401-080		CAP,E 1-50 M 11L SME
C0441	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C0442	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C0443	87-A10-229-080		C-CAP,S 0.68-10 K W5R
C0444	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C0445	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C0446	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0447	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0448	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C0449	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C0450	87-016-081-080		C-CAP,S 0.1-16 K R GRM
C0451	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C0452	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C0453	87-016-081-080		C-CAP,S 0.1-16 K R GRM
C0454	87-016-081-080		C-CAP,S 0.1-16 K R GRM
C0455	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C0456	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C0457	87-016-081-080		C-CAP,S 0.1-16 K R GRM
C0461	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0463	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0465	87-016-552-080		C-CAP,S 0.082-16 K B C2012
C0466	87-010-194-080		C-CAP,S 0.047-25 Z F
C0467	87-A10-201-080		C-CAP,S 0.33-16 K B
C0468	87-A10-060-080		C-CAP,S 0.18-16 K B
C0478	87-010-401-080		CAP,E 1-50 M 11L SME
C0479	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0480	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0481	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0482	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0483	87-010-401-080		CAP,E 1-50 M 11L SME
C0489	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0491	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0492	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0531	87-010-405-080		CAP,E 10-50 M 11L SME
C0533	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0534	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0535	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0536	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0541	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0609	87-010-181-080		C-CAP,S 1800P-50 K B GRM
C0610	87-010-181-080		C-CAP,S 1800P-50 K B GRM
C0611	87-010-598-080		C-CAP,S 0.068-16 K R GRM
C0612	87-016-369-080		C-CAP,S 0.033-25 K B GRM
C0613	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0614	87-016-669-080		C-CAP,S 0.1-25 K B
C0616	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0617	87-012-369-080		C-CAP,S 0.047-50 Z F
C0618	87-010-401-080		CAP,E 1-50 M 11L SME
C0619	87-010-263-080		CAP,E 100-10 M 11L SME
C0620	87-016-669-080		C-CAP,S 0.1-25 K B
C0621	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0623	87-010-401-080		CAP,E 1-50 M 11L SME
C0624	87-010-401-080		CAP,E 1-50 M 11L SME
C0626	87-A10-354-080		C-CAP,S 0.047-50 K B
C0627	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0628	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0629	87-A10-354-080		C-CAP,S 0.047-50 K B
C0630	87-010-383-080		CAP,E 33-25 M 11L SME
C0631	87-010-185-080		C-CAP,S 3900P-50 K B
C0632	87-010-185-080		C-CAP,S 3900P-50 K B
C0634	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0635	87-A10-307-080		CAP,M 0.1-50 J
C0636	87-A10-307-080		CAP,M 0.1-50 J
C0637	87-A10-307-080		CAP,M 0.1-50 J
C0638	87-A10-307-080		CAP,M 0.1-50 J
C0639	87-010-405-080		CAP,E 10-50 M 11L SME
C0641	87-010-401-080		CAP,E 1-50 M 11L SME
C0642	87-010-401-080		CAP,E 1-50 M 11L SME
C0643	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0644	87-010-401-080		CAP,E 1-50 M 11L SME
C0671	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0672	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0673	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0679	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0680	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0682	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0771	87-010-263-080		CAP,E 100-10 M 11L SME
C0772	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0773	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0774	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0779	87-010-426-080		C-CAP,S 0.012-25 K B
C0780	87-010-426-080		C-CAP,S 0.012-25 K B
C0782	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0783	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0784	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0785	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0786	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0788	87-010-149-080		C-CAP,S 5P-50 C CH GRM
C0789	87-A10-592-080		C-CAP,S 0.015-50 J B
C0790	87-A10-592-080		C-CAP,S 0.015-50 J B
C0791	87-010-196-080		C-CAP,S 0.1-25 Z F C2012

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0792	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0793	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0795	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0796	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0797	87-010-405-080		CAP,E 10-50 M 11L SME
C0798	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0799	87-010-407-080		CAP,E 33-50 M 11L SME
C0800	87-012-369-080		C-CAP,S 0.047-50 Z F
C0801	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0802	87-012-369-080		C-CAP,S 0.047-50 Z F
C0803	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0804	87-010-263-080		CAP,E 100-10 M 11L SME
C0807	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0808	87-010-401-080		CAP,E 1-50 M 11L SME
C0809	87-010-401-080		CAP,E 1-50 M 11L SME
C0810	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0811	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0812	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0814	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0815	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0816	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0819	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0820	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0821	87-010-405-080		CAP,E 10-50 M 11L SME
C0823	87-010-177-080		C-CAP,S 820P-50 J SL C2012
C0824	87-010-405-080		CAP,E 10-50 M 11L SME
C0825	87-010-596-080		C-CAP,S 0.047-16 K R C2012
C0842	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0843	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0844	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0845	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0846	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0847	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0848	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0849	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0850	87-010-260-080		CAP,E 47-25 M 11L SME
C0851	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0852	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0853	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0858	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0859	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0860	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0961	87-010-152-080		C-CAP,S 8P-50 D CH GRM
C0963	87-015-785-080		C-CAP, 0.1-25 Z F C3216
C0971	87-010-381-080		CAP,E 330-16 M SME
C0972	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0973	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0974	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0979	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0981	87-010-260-080		CAP,E 47-25 M 11L SME
C0982	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0983	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0984	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0987	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0991	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0992	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0993	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0995	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0997	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0998	87-010-260-080		CAP,E 47-25 M 11L SME
C0999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF0831	87-008-261-010		FLTR,CF SFE10.7MA5
CF0832	87-008-261-010		FLTR,CF SFE10.7MA5
CN0001	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN0091	87-A60-109-010		CONN,2P V S2M-2W
CN0101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN0301	87-A60-620-010		CONN,3P V 2MM JMT
CN0351	87-A60-625-010		CONN,8P V 2MM JMT
CN0601	87-099-719-010		CONN,30P H BLK TYK-B(X)
CN0602	87-099-194-010		CONN,6P V BLK 6216
CNA0001	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA0002	8A-NF6-630-010		CONN ASSY,3P (VM) ANF-6
FFC0602	85-NF5-617-010		CABLE,FFC 6P-1.25
FFE0831	A8-8ZA-190-030		8ZA-1 FEUNM
J0101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J0102	87-A60-238-010		TERMINAL,SP 4P (MSC)
J0431	87-A60-746-010		JACK,PIN 6P R/W,R/W, O/B
J0601	87-A60-885-010		JACK,PIN 6P R/W MSC
J0831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L0101	87-A50-610-010		COIL,1UH K(MDEC)
L0102	87-A50-610-010		COIL,1UH K(MDEC)
L0301	87-A50-049-010		COIL,TRAP 85K(COI)
L0302	87-A50-049-010		COIL,TRAP 85K(COI)
L0351	87-007-342-010		COIL,OSC 85KHZ BIAS
L0801	87-A50-540-010		COIL,FM DET(TOK)
L0802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L0811	87-005-847-080		COIL,2.2UH K CECS
L0821	87-A50-209-010		COIL,1POLE MPX(MIT)A
L0822	87-A50-209-010		COIL,1POLE MPX(MIT)A
L0832	87-005-847-080		COIL,2.2UH K CECS
L0951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R0161	87-A00-441-050		RES,270-1/2W J RP
R0162	87-A00-441-050		RES,270-1/2W J RP
R0163	87-A00-441-050		RES,270-1/2W J RP
R0164	87-A00-441-050		RES,270-1/2W J RP
R0407	87-022-214-080		C-RES,S 100K-1/10W F
R0445	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
R0790	87-010-197-080		C-CAP,S 0.01-25 K B C2012
R0991	87-010-322-080		C-CAP,S 100P-50 J CH GRM
R0993	87-010-322-080		C-CAP,S 100P-50 J CH GRM
R0995	87-010-322-080		C-CAP,S 100P-50 J CH GRM
SFR0351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR0352	87-A90-433-080		SFR,50K H NVZ6TLTA
WH0001	87-A90-510-010		HLDR,WIRE 2.5-9P
X0991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C0101	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0102	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0103	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0104	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0105	87-010-406-040		CAP,E 22-50 M 11L SME
C0106	87-010-493-040		CAP,E 0.47-50 M 5L SRE
C0107	87-A10-189-040		CAP,E 220-10 M 5L
C0108	87-A10-189-040		CAP,E 220-10 M 5L
C0109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0110	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0112	87-012-368-080		C-CAP,S 0.1-50 Z F
C0113	87-012-369-080		C-CAP,S 0.047-50 Z F
C0114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0115	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0116	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0118	87-012-145-080		C-CAP,S 270P-50 J CH GRM
C0119	87-010-498-040		CAP,E 10-16 M 5L SRE
C0120	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0121	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0122	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0123	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C0181	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0182	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0183	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0202	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0203	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0204	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0205	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0206	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0211	87-012-140-080		C-CAP,S 470P-50 J CH

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0221	87-010-421-040		CAP,E 4.7-50 M 5L SRE
C0222	87-010-404-040		CAP,E 4.7-50 M 11L SME
C0223	87-010-408-040		CAP,E 47-50 M 11L SME
C0224	87-012-369-080		C-CAP,S 0.047-50 Z F
C0382	87-010-320-080		C-CAP,S 68P-50 J CH GRM
C0383	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0384	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0385	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0387	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0392	87-010-320-080		C-CAP,S 68P-50 J CH GRM
C0402	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0403	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0404	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0405	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0406	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0407	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0408	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0409	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0601	87-010-186-080		C-CAP,S 4700P-50 K B C2012
C0602	87-010-405-040		CAP,E 10-50 M 11L SME
C0603	87-010-320-080		C-CAP,S 68P-50 J CH GRM
C0604	87-010-546-040		CAP,E 0.33-50 M 11L SME
C0606	87-010-112-040		CAP,E 100-16 M 11L SME
C0607	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0608	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0609	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0621	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0652	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0653	87-010-213-080		C-CAP,S 0.015-25 K B GRM
C0701	87-010-260-040		CAP,E 47-25 M 11L SME
CN0102	8A-NF7-605-010		CONN ASSY,4P V 80MM
CN0104	87-099-017-010		CONN,15P V BLK 6216
CN0901	87-A60-138-010		CONN,13P V FE
CON0101	87-099-720-010		CONN,30P BLK TYK-B(P)
FB0601	87-008-372-080		FLTR,EMI BL01 RN1
FFC0104	88-915-111-110		FF-CABLE,15P 1.25
FFC0901	85-NF5-618-010		CABLE,FFC 13P-1.25
FL0201	8A-NF7-601-010		FL,BJ754GNK
J0601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
J0602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
L0101	87-A50-333-010		COIL,OSC 9.43MHZ
LED0401	87-017-733-080		LED,SEL1250SMTP5 RED
LED0402	87-017-733-080		LED,SEL1250SMTP5 RED
LED0403	87-017-733-080		LED,SEL1250SMTP5 RED
LED0404	87-017-733-080		LED,SEL1250SMTP5 RED
LED0405	87-017-733-080		LED,SEL1250SMTP5 RED
LED0416	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0417	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0418	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0419	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0420	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0421	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED0422	87-A40-317-080		LED,SLR-342VCT31 RED
LED0423	87-A40-317-080		LED,SLR-342VCT31 RED
LED0424	87-A40-317-080		LED,SLR-342VCT31 RED
LED0440	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0441	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0442	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0443	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0444	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0445	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED0450	87-A40-589-040		LED,SLR-56VCT31 RED
LED0451	87-A40-589-040		LED,SLR-56VCT31 RED
LED0454	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED0455	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED0499	87-017-733-080		LED,SEL1250SMTP5 RED
R0211	87-012-156-080		C-CAP,S 220P-50 J CH GRM
R0212	87-012-156-080		C-CAP,S 220P-50 J CH GRM
S0101	87-A91-709-010		SW,RTRY 1-2-24 RE012103PV2B25F
S0102	87-A91-710-010		SW,RTRY 1-2-12 RE012103PV2B25F
S0301	87-A91-024-180		SW,TACT KSHG611BT
S0302	87-A91-024-180		SW,TACT KSHG611BT
S0303	87-A91-024-180		SW,TACT KSHG611BT
S0304	87-A91-024-180		SW,TACT KSHG611BT
S0305	87-A91-024-180		SW,TACT KSHG611BT
S0306	87-A91-024-180		SW,TACT KSHG611BT
S0310	87-A91-024-180		SW,TACT KSHG611BT
S0311	87-A91-024-180		SW,TACT KSHG611BT
S0312	87-A91-024-180		SW,TACT KSHG611BT
S0313	87-A91-024-180		SW,TACT KSHG611BT
S0321	87-A91-024-180		SW,TACT KSHG611BT
S0322	87-A91-024-180		SW,TACT KSHG611BT
S0323	87-A91-024-180		SW,TACT KSHG611BT
S0324	87-A91-024-180		SW,TACT KSHG611BT
S0325	87-A91-024-180		SW,TACT KSHG611BT
S0326	87-A91-024-180		SW,TACT KSHG611BT
S0327	87-A91-024-180		SW,TACT KSHG611BT
S0328	87-A91-024-180		SW,TACT KSHG611BT
S0333	87-A91-024-180		SW,TACT KSHG611BT
S0334	87-A91-024-180		SW,TACT KSHG611BT
S0341	87-A91-024-180		SW,TACT KSHG611BT
S0342	87-A91-024-180		SW,TACT KSHG611BT
S0343	87-A91-024-180		SW,TACT KSHG611BT
S0344	87-A91-024-180		SW,TACT KSHG611BT
S0345	87-A91-024-180		SW,TACT KSHG611BT
S0346	87-A91-024-180		SW,TACT KSHG611BT
S0347	87-A91-024-180		SW,TACT KSHG611BT
S0349	87-A91-024-180		SW,TACT KSHG611BT
S0350	87-A91-024-180		SW,TACT KSHG611BT
S0351	87-A91-024-180		SW,TACT KSHG611BT
S0352	87-A91-024-180		SW,TACT KSHG611BT
S0353	87-A91-024-180		SW,TACT KSHG611BT
S0354	87-A91-024-180		SW,TACT KSHG611BT
S0355	87-A91-024-180		SW,TACT KSHG611BT

AMP 1F C.B

C0101	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0102	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0103	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0104	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0105	87-010-186-080		C-CAP,S 4700P-50 K B C2012
C0106	87-010-186-080		C-CAP,S 4700P-50 K B C2012
C0107	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0108	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0111	87-012-140-080		C-CAP,S 470P-50 J CH
C0112	87-012-140-080		C-CAP,S 470P-50 J CH
C0113	87-010-405-080		CAP,E 10-50 M 11L SME
C0114	87-010-405-080		CAP,E 10-50 M 11L SME
C0115	87-016-299-080		CAP,E 10-100 M SME
C0116	87-016-299-080		CAP,E 10-100 M SME
C0119	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0120	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0133	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0153	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C0205	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0206	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0207	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0208	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0211	87-010-260-080		CAP,E 47-25 M 11L SME
C0212	87-010-260-080		CAP,E 47-25 M 11L SME
C0215	87-012-140-080		C-CAP,S 470P-50 J CH
C0216	87-012-140-080		C-CAP,S 470P-50 J CH
C0217	87-010-405-080		CAP,E 10-50 M 11L SME
C0218	87-010-405-080		CAP,E 10-50 M 11L SME
C0221	87-010-405-080		CAP,E 10-50 M 11L SME
C0222	87-010-405-080		CAP,E 10-50 M 11L SME
C0223	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0224	87-010-197-080		C-CAP,S 0.01-25 K B C2012

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0251	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0252	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0253	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0254	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0401	87-010-260-080		CAP,E 47-25 M 11L SME
CN0101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN0102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN0103	87-A60-131-010		CONN,6P V FE
CNA0101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
CNA0103	8A-NF8-655-010		CONN ASSY,7P TID-A(250)
FFC0103	88-906-151-110		FF-CABLE, 6P 1.25
J0201	87-A61-160-010		JACK,PIN 4P R/W/B/B KM
L0251	87-A50-610-010		COIL,1UH K(MDEC)
L0252	87-A50-610-010		COIL,1UH K(MDEC)
R0129	87-A00-262-080		RES,M/F 0.15-2W J
R0130	87-A00-262-080		RES,M/F 0.15-2W J
R0181	87-A00-262-080		RES,M/F 0.15-2W J
R0182	87-A00-262-080		RES,M/F 0.15-2W J
R0231	87-A00-258-080		RES,M/F 0.22-1W J
R0232	87-A00-258-080		RES,M/F 0.22-1W J
WH0101	87-A90-459-010		HLDR,WIRE 2.5-5P
WH0102	87-A90-460-010		HLDR,WIRE 2.5-7P

AMP 2F C.B

C0160	87-010-186-080		C-CAP,S 4700P-50 K B C2012
C0161	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0201	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0202	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0204	87-010-406-080		CAP,E 22-50 M 11L SME
C0205	87-010-260-080		CAP,E 47-25 M 11L SME
C0206	87-A10-946-080		C-CAP,S 220P-100 J CH
C0208	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0209	87-010-260-080		CAP,E 47-25 M 11L SME
C0210	87-010-260-080		CAP,E 47-25 M 11L SME
C0211	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0212	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0251	87-012-368-080		C-CAP,S 0.1-50 Z F
C0252	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0253	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
CN0101	87-A61-109-010		CONN,7P V TID-A
CN0104	87-A60-131-010		CONN,6P V FE
J0102	87-A60-573-010		JACK,PIN 1P ORN
L0251	87-A50-610-010		COIL,1UH K(MDEC)
R0218	87-A00-258-080		RES,M/F 0.22-1W J
TH0201	87-A91-042-080		C-THMS,100K 55001

VM C.B

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	87-036-110-019		SW,MICRO SPPB62
SW5	87-036-110-019		SW,MICRO SPPB62
SW6	87-036-110-019		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ
W1	82-ZM3-601-019		RBN,CORD,4P-75

HEAD-1 C.B

	85-ZM3-602-010		PWB,FLEX A
CON301	87-NF6-615-010		CONN ASSY,3P PB

REF. NO	PART NO.	KANRI NO.	DESCRIPTION

HEAD-2 C.B

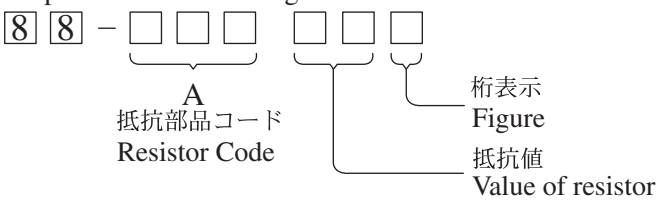
	85-ZM3-602-010		PWB,FLEX A
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

PT C.B

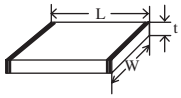
C0001	87-010-387-080		CAP,E 470-25 M SME
C0004	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0005	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0006	87-A10-627-000		CAP,E 2200-50 M SMG
C0007	87-A10-627-000		CAP,E 2200-50 M SMG
C0008	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0009	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0010	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0011	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0012	87-016-657-090		CAP,E 3300-71 M SMG
C0013	87-016-657-090		CAP,E 3300-71 M SMG
C0016	87-010-403-080		CAP,E 3.3-50 M 11L SME
CN0001	87-A61-110-010		CONN,9P V TID-A
CN0002	87-A61-108-010		CONN,5P V TID-A
⚠PT0001	8A-NFU-621-010		PT,ANF-27 U
⚠PT0002	8A-NF8-661-010		PT,SUB ANF-8 (U)
⚠RY0002	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠T0001	87-A60-317-010		TERMINAL, 1P MSC
⚠T0002	87-A60-317-010		TERMINAL, 1P MSC

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

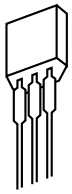


チップ抵抗
Chip resistor

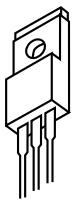
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード　：A Resistor Code：A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

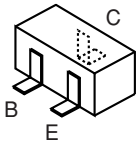
CC5551
CD1585
CSA952
CSC4115
KTA1266
KTC3198



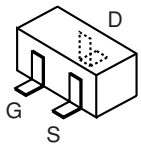
2SA933S
DTC114ES
KTC3199



2SB1342
2SB1370
2SD1933



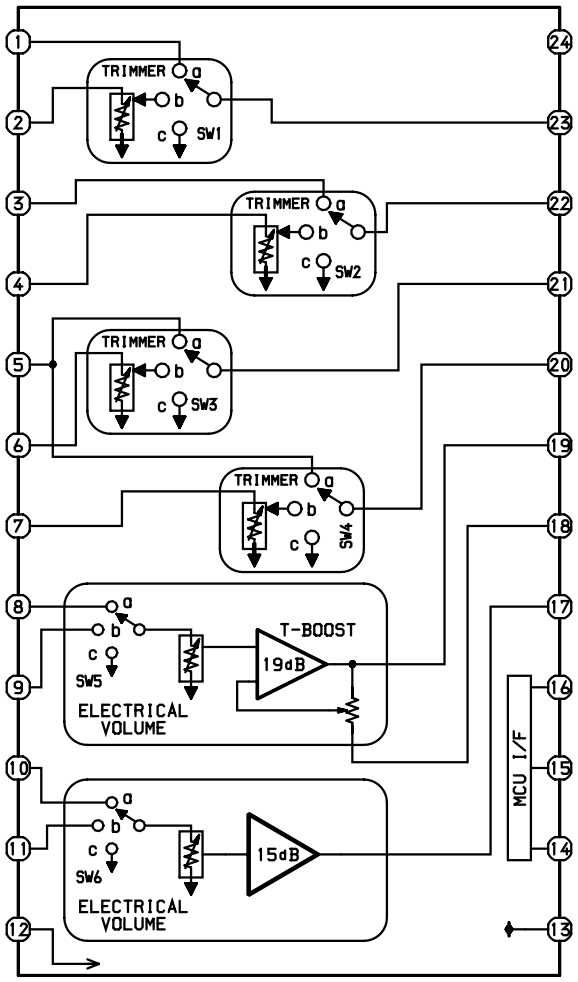
2SA1235
2SC2714
2SC3052
CMBT5401
CMBT5551
CSD1306
DTA114WK
RT1N141C
RT1P141C
RT1P144C
RT1P441C



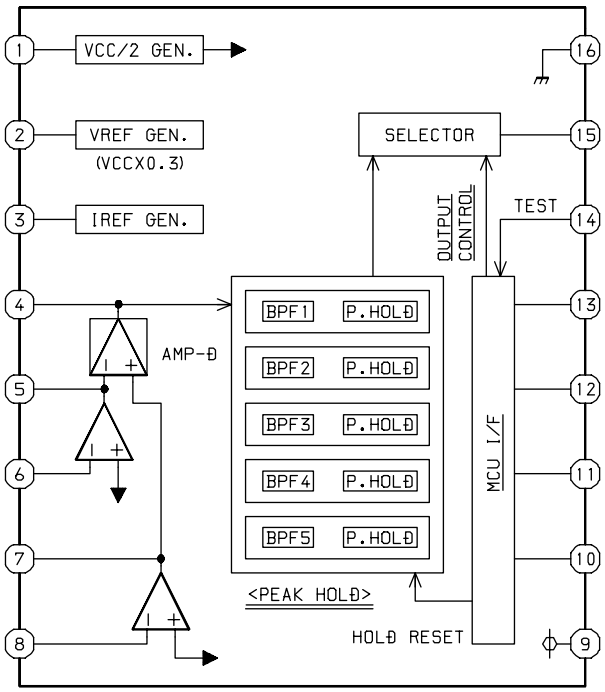
2SK2158

IC BLOCK DIAGRAM-1

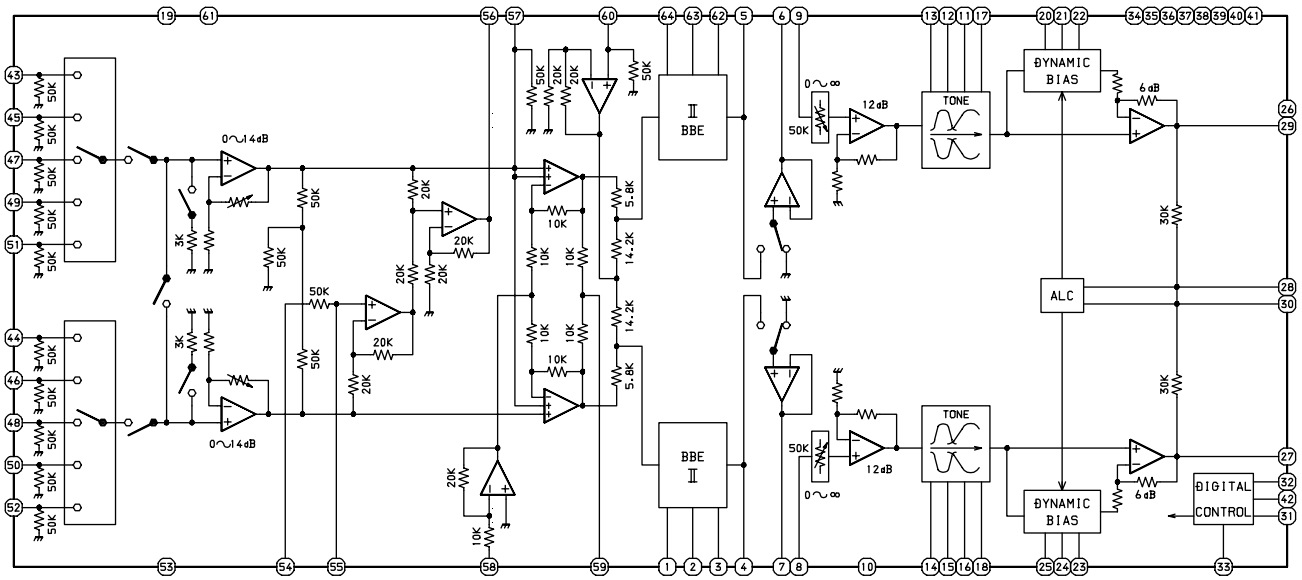
IC, M62491FP



IC, M61506FP

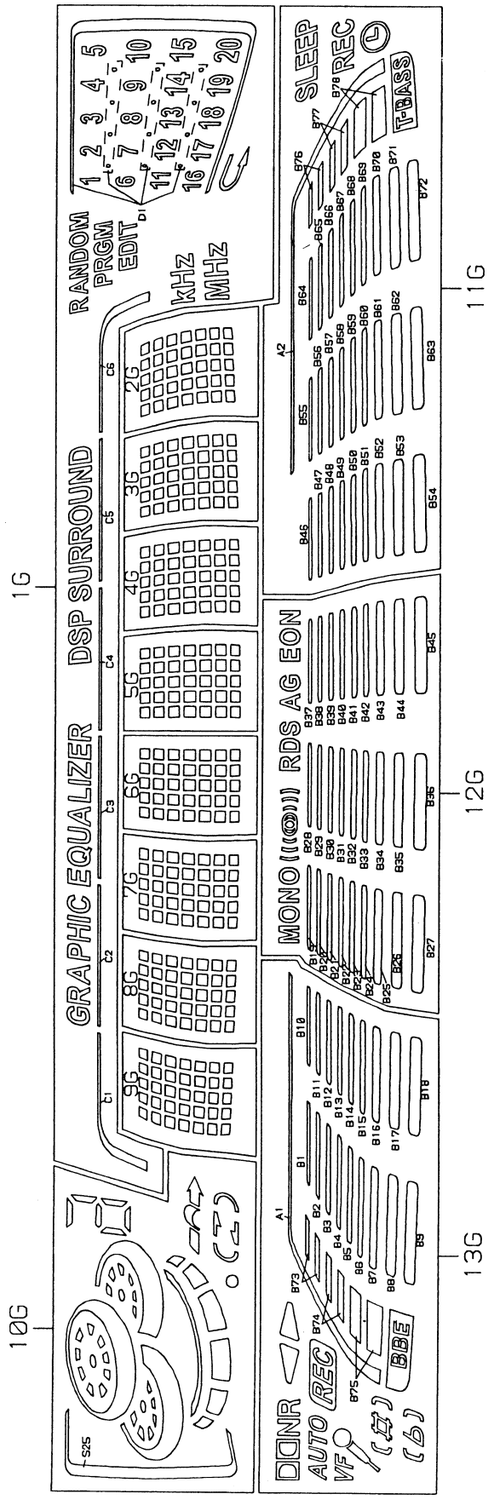


IC, BD3876KS2



FL (BL754GNK) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	# b	B27	B54	b	1-1	DSP SURROUND
P2	((b))	B36	B63	c	2-1	GRAPHIC EQUALIZER
P3	((#))	B45	B72	a,g,d	3-1	C6
P4	◁	B26	B53	e	4-1	C5
P5	▷	B35	B62	S1	5-1	C4
P6	REC	B44	B71	S12	1-2	C3
P7	DNR	B25	B52	S13	2-2	C2
P8	AUTO	B34	B61	S20	3-2	C1
P9	VF	B43	B70	S14	4-2	RANDOM
P10	A1	B24	B51	S11	5-2	PRGM
P11	BBE	B33	B60	S19	1-3	EDIT
P12	B75	B42	B69	S15	2-3	◜
P13	B74	B23	B50	S18	3-3	kHz
P14	B73	B32	B59	S16	4-3	MHz
P15	B9	B41	B68	S17	5-3	16
P16	B18	B22	B49	S3	1-4	11
P17	B8	B31	B58	S24	2-4	6
P18	B17	B40	B67	S23	3-4	1
P19	B7	B21	B48	S2	4-4	17
P20	B16	B30	B57	S22	5-4	12
P21	B6	B39	B66	S21	1-5	7
P22	B15	B20	B47	S10	2-5	2
P23	B5	B29	B56	S9	3-5	18
P24	B14	B38	B65	S8	4-5	13
P25	B4	B19	B46	S7	5-5	8
P26	B13	B28	B55	S6	1-6	3
P27	B3	B37	B64	S5	2-6	19
P28	B12	MONO	T-BASS	S4	3-6	14
P29	B2	((◎))	A2	◯	4-6	9
P30	B11	RDS	B78	◁▷	5-6	4
P31	B1	AG	B77	◜	1-7	20
P32	B10	EON	B76	↑	2-7	15
P33	-	-	SLEEP	◝	3-7	10
P34	-	-	REC	S25	4-7	5
P35	-	-	⏻	-	5-7	D1

MAIN C.B

TO CD MECHANISM
AZG-1 ZD3R0M
FFC602
CN602

TAPE MECHANISM 2ZM-3MK2 PR4NM
TO HEAD-2 C.B
CON351
CN351

TO HEAD-1 C.B
CON301
CN301

TO FRONT C.B
CON101

J831
ANTENNA
AM LOOP
FM 75Ω

J431
5.1CH INPUT
CENTER
SUB WOOFER
SURROUND (R)
SURROUND (L)
FRONT (R)
FRONT (L)

J601
VIDEO/AUX (R)
VODEO/AUX (L)
MD (R)
MD (L)

TO PT C.B CN001
CNA001
<WHT>
LINR OUT (R)
LINR OUT (L)

J102
SPEAKERS

CN001
TO AMP 1F C.B
CN102

CN101
TO AMP 1F C.B
CN101

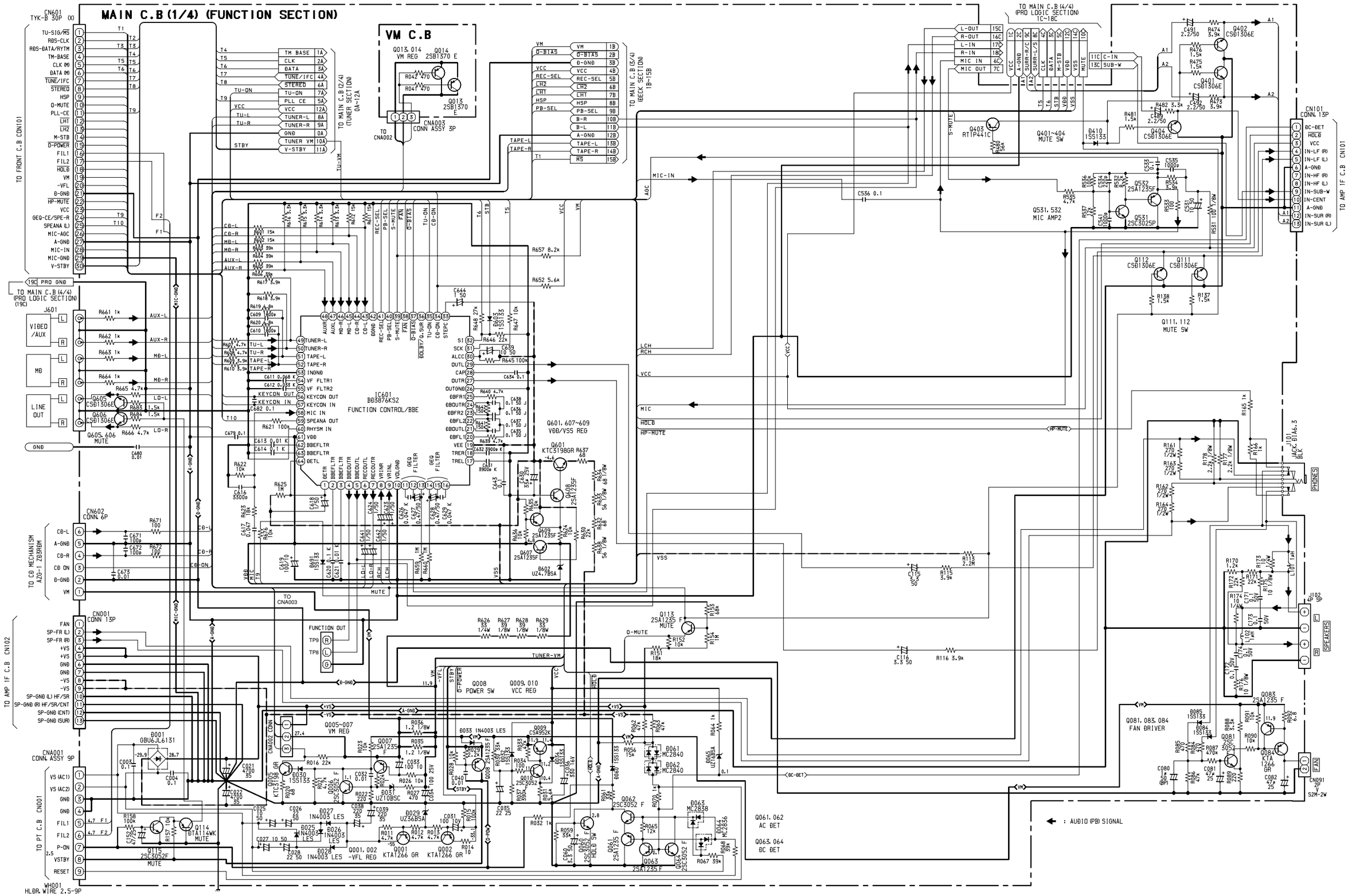
GND
TP8 (LCH)
TP9 (RCH)

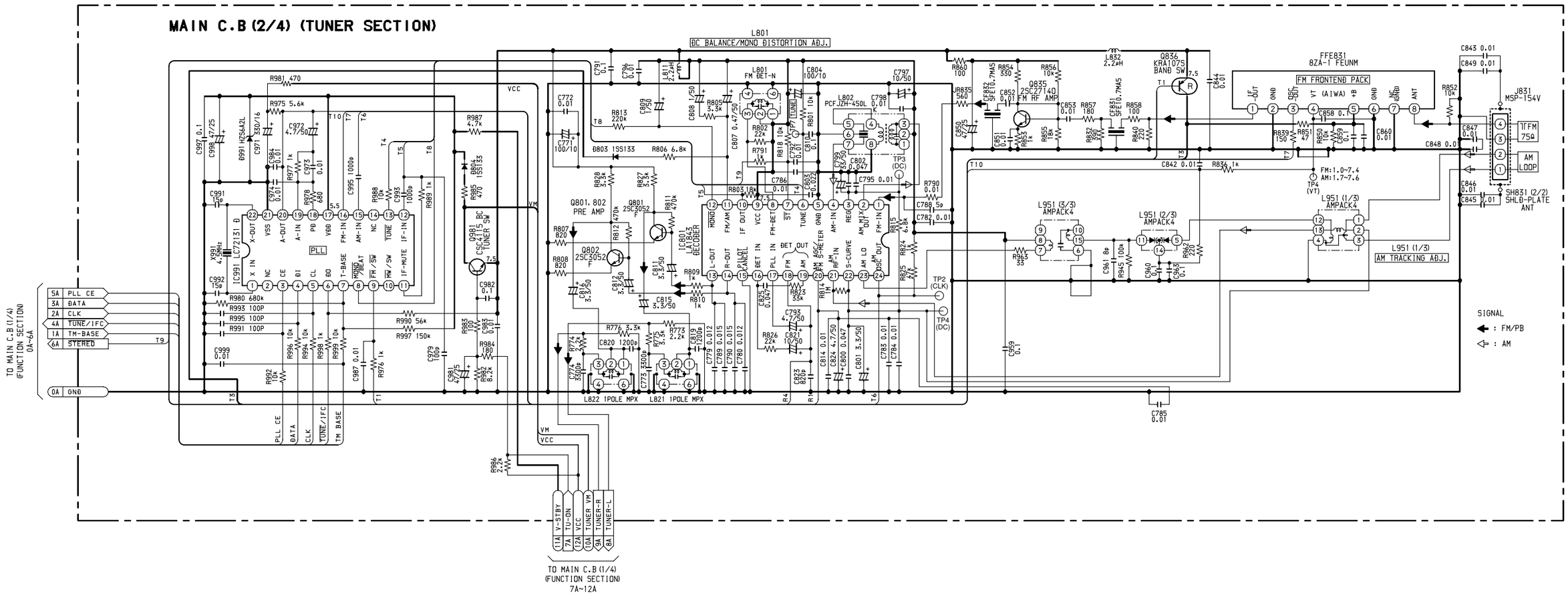
CN091
<BLK>
FAN

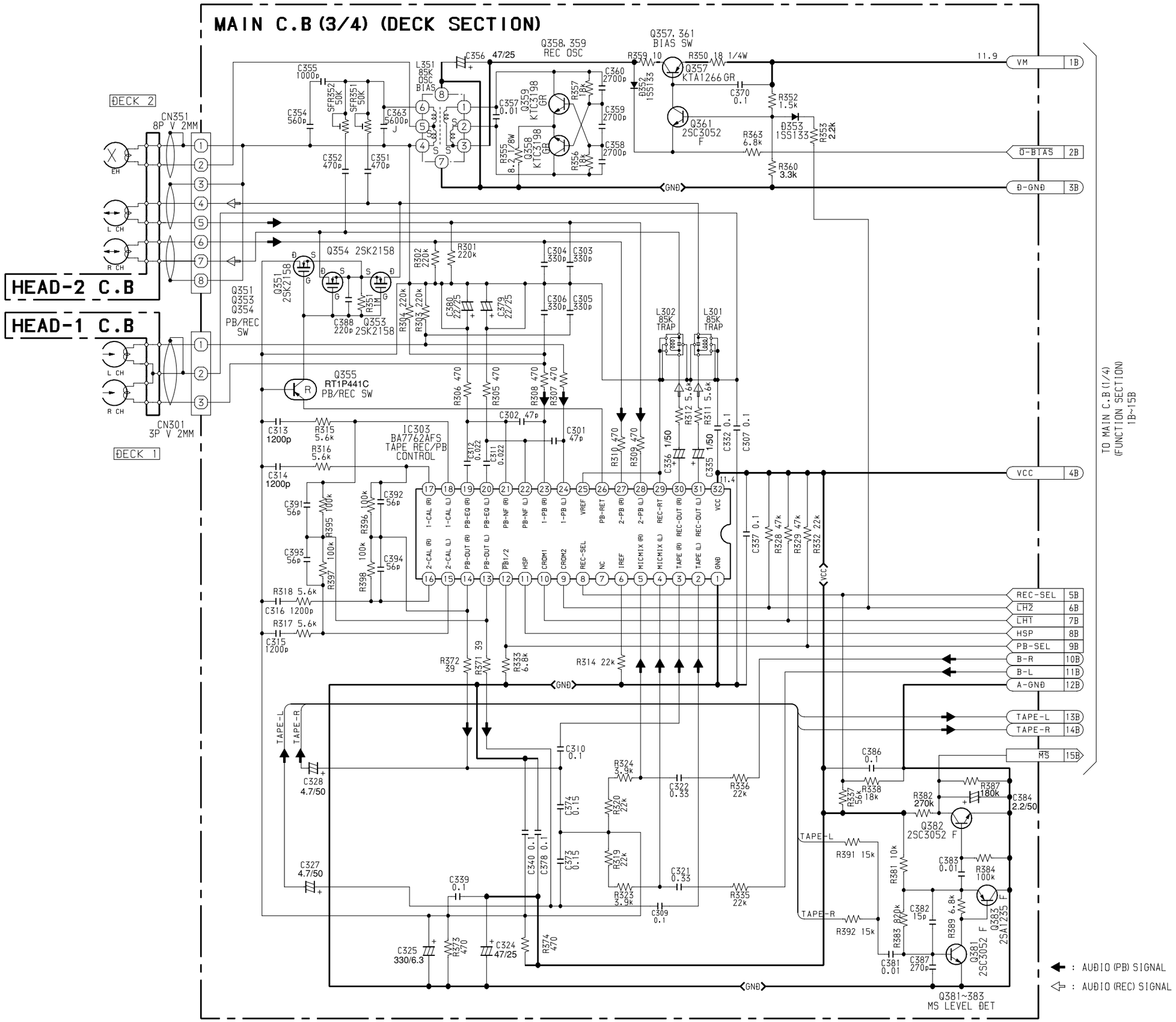
J101
PHONES

VM C.B
CNA003
<RED>

SCHEMATIC DIAGRAM-1 (MAIN-FUNCTION SECTION)




MAIN C.B (2/4) (TUNER SECTION)
L801
DC BALANCE/MONO DISTORTION ADJ.
FFE831
8ZA-1 FEUNM
FM FRONTEND PACK
Q836
KRA107S
BAND SW
Q835
2SC2714O
FM RF AMP
L802
PCFJZH-450L
Q801, 802
PRE AMP
IC801
LA1843
DECODER
IC991
LC72131 D
PLL
L951 (3/3)
AMPACK4
L951 (2/3)
AMPACK4
L951 (1/3)
AMPACK4
L951 (1/3)
AM TRACKING ADJ.
FM:1.0~7.4
AM:1.7~7.6
TP4
(VT)
TP2
(CLK)
TP4
(DG)
L822 1POLE MPX
L821 1POLE MPX
J831
MSP-154V
SH831 (2/2)
SHLD-PLATE
ANT
1FM
75Ω
AM
LOOP
SIGNAL
: FM/PB
: AM
TO MAIN C.B (1/4)
(FUNCTION SECTION)
0A~6A
5A PLL CE
3A DATA
2A CLK
4A TUNE/IFC
1A TM-BASE
6A STEREO
0A GND
TO MAIN C.B (1/4)
(FUNCTION SECTION)
7A~12A
11A V-STBY
7A TU-ON
12A VCC
10A TUNER VM
9A TUNER-R
8A TUNER-L


MAIN C.B (3/4) (DECK SECTION)
HEAD-2 C.B
HEAD-1 C.B
ĐECK 2
ĐECK 1
CN351 8P V 2MM
CN301 3P V 2MM
Q351 Q353 Q354 PB/REC SW
Q354 2SK2158
Q355 RT1P441C PB/REC SW
IC303 BA7762AFS TAPE REC/PB CONTROL
Q358, 359 REC OSC
Q357, 361 BIAS SW
Q357 KTA1266 GR
Q361 2SC3052 F
Q382 2SC3052 F
Q381 2SC3052 F
Q383 2SA1235 F
L302 85K TRAP
L301 85K TRAP
L351 85K OSC BIAS
VM 1B
Ō-BIAS 2B
Đ-GNĐ 3B
VCC 4B
REC-SEL 5B
LH2 6B
LH1 7B
HSP 8B
PB-SEL 9B
B-R 10B
B-L 11B
A-GNĐ 12B
TAPE-L 13B
TAPE-R 14B
MS 15B
GNĐ
TO MAIN C.B (1/4) (FUNCTION SECTION) 1B~15B
: AUĐIO (PB) SIGNAL
: AUĐIO (REC) SIGNAL
Q381~383 MS LEVEL ĐET

MAIN C.B (4/4) (PRO LOGIC SECTION)

TO MAIN C.B (1/4)
(FUNCTION SECTION)
1C~9C

1C VCC
2C A-GNÐ
3C ÐATA
4C CLK
5C STB
6C MIC IN
MIC OUT 7C
SURR-L/S 8C
SURR-R/C 9C

IC401
M62463AFP
ÐOLBY PRO LOGIC

IC431
M62491FP
5.1CH

Ð402
UZ5.1BSB

Ð401
UZ9.1BSA

Q431
CSÐ1306E
SUB-W MUTE

J431 6P
5.1CH INPUT
FRONT L
FRONT R
SURROUNÐ L
SURROUNÐ R
CENTER
SUB WOOFER

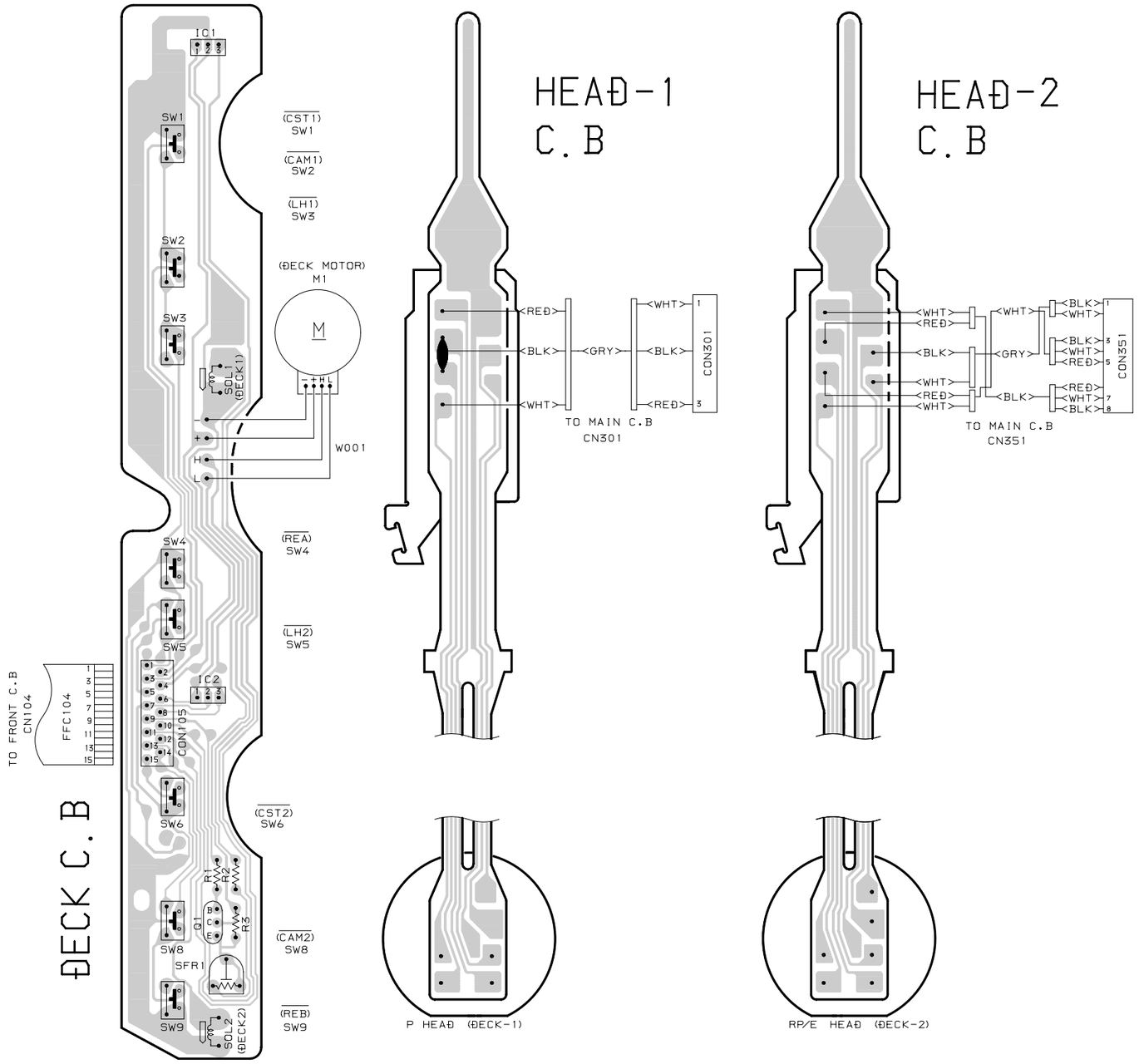
EXCEPT MYLAR
NON-POLAR CAP IS C-CAP. 2125

: AUÐIO (PB) SIGNAL

TO MAIN C.B (1/4)
(FUNCTION SECTION)
12C~14C

17C L-IN
18C R-IN
1C C-IN
10C MUTE
16C R-OUT
15C L-OUT
19C PRO GNÐ

TO MAIN C.B (1/4)
(FUNCTION SECTION)
(10C, 11C, 15C~19C)


DECK C.B
TO FRONT C.B CN104
FFC104
IC1
IC2
CON105
SW1
SW2
SW3
SW4
SW5
SW6
SW8
SW9
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(REA) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB) SW9
(DECK MOTOR) M1
M
SOL1 (DECK1)
SOL2 (DECK2)
SFR1
Q1
R1
R2
R3
W001
HEAD-1 C.B
HEAD-2 C.B
RED
BLK
GRY
WHT
CN301
CN351
TO MAIN C.B CN301
TO MAIN C.B CN351
P HEAD (DECK-1)
RP/E HEAD (DECK-2)

FRONT C.B

TO CD MECHANISM
AZG-1 ZD3RDM
FFC901
CN901

LED450, 451
(PRO)

FL201
(DISPLAY)

IC251
REMOTE
SENSOR

S333
BBE

S334
T-BASS

S101
LED454, 455
VOLUME

TO MAIN C.B
CN601

S312
MIC

S328
ENTER

S313
SURROUND

S311
ECHO

LED442, 443, 445
(DECK2)

CN104

FFC104

TO DECK C.B
CON105

S371
MULTI
JOG

S303
GEQ

S304
TIMER

S305
CLOCK

S310
DOLBY
PRO LOGIC

S306
KARAOKE

S349
CD EDIT/CHECK

LED401 LED402 LED403 LED404 LED405 LED499
S345 S344 S343 S342 S341 S301
MD CD VIDEO/AUX /5.1CH TUNER/ BAND TAPE DECK 1/2 POWER STANDBY/ON

S302
ECO

LED419,420,S321
DIRECTION/PRESET

S327, LED421
CLEAR

S326, LED416
SET

LED416 LED417
S322 S323
UP DOWN

S325
REC/REC MUTE

S324
SYNC DUB (NORM/HIGH)

S347
REV MODE
(DECK2)

S346
DEMO

LED440, 441, 444
(DECK1)

LED423
S352
DISC 2

LED422
S351
DISC 1

LED424
S353
DISC 3

S355
OPEN/CLOSE

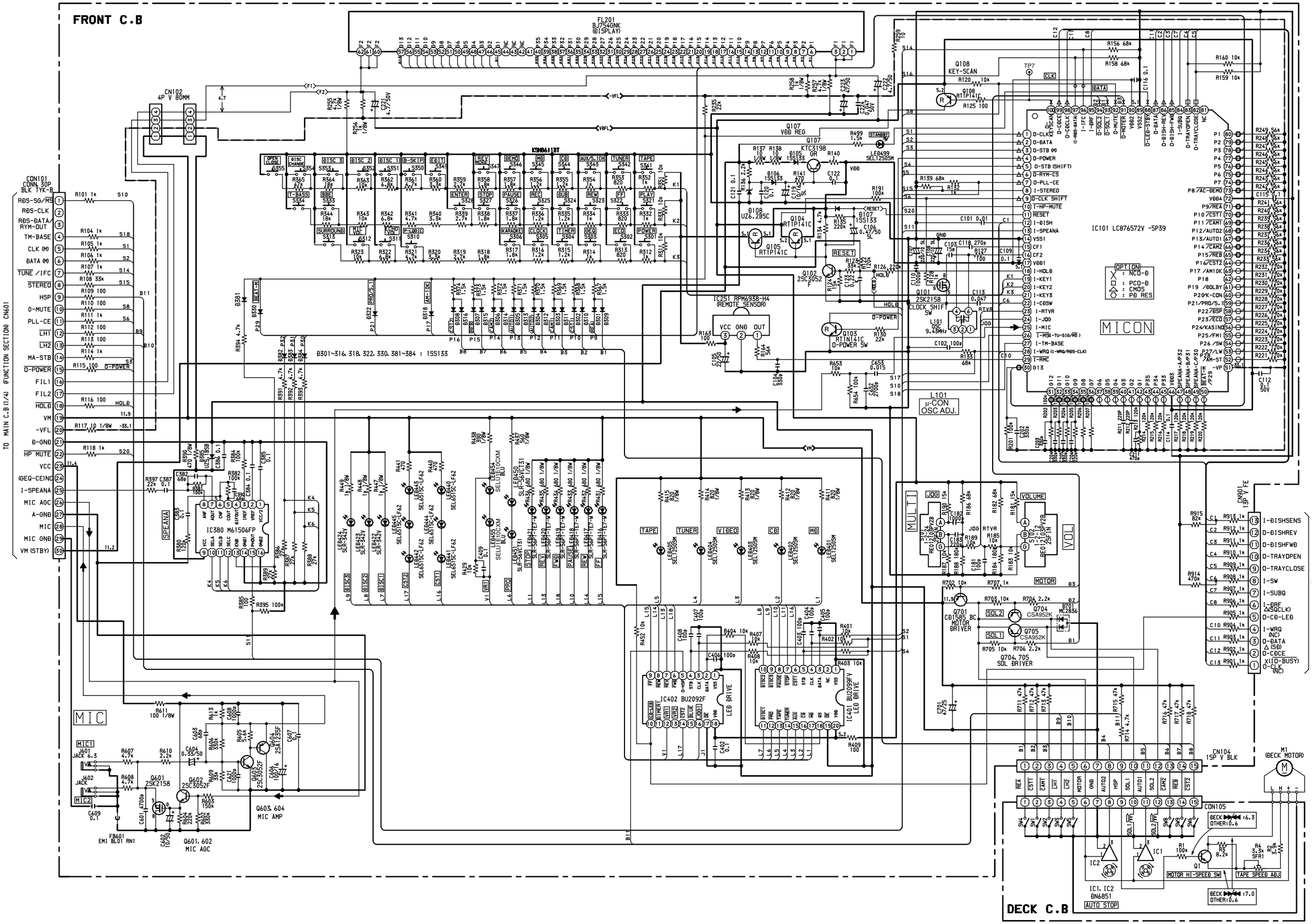
S350
CD BLANK SKIP

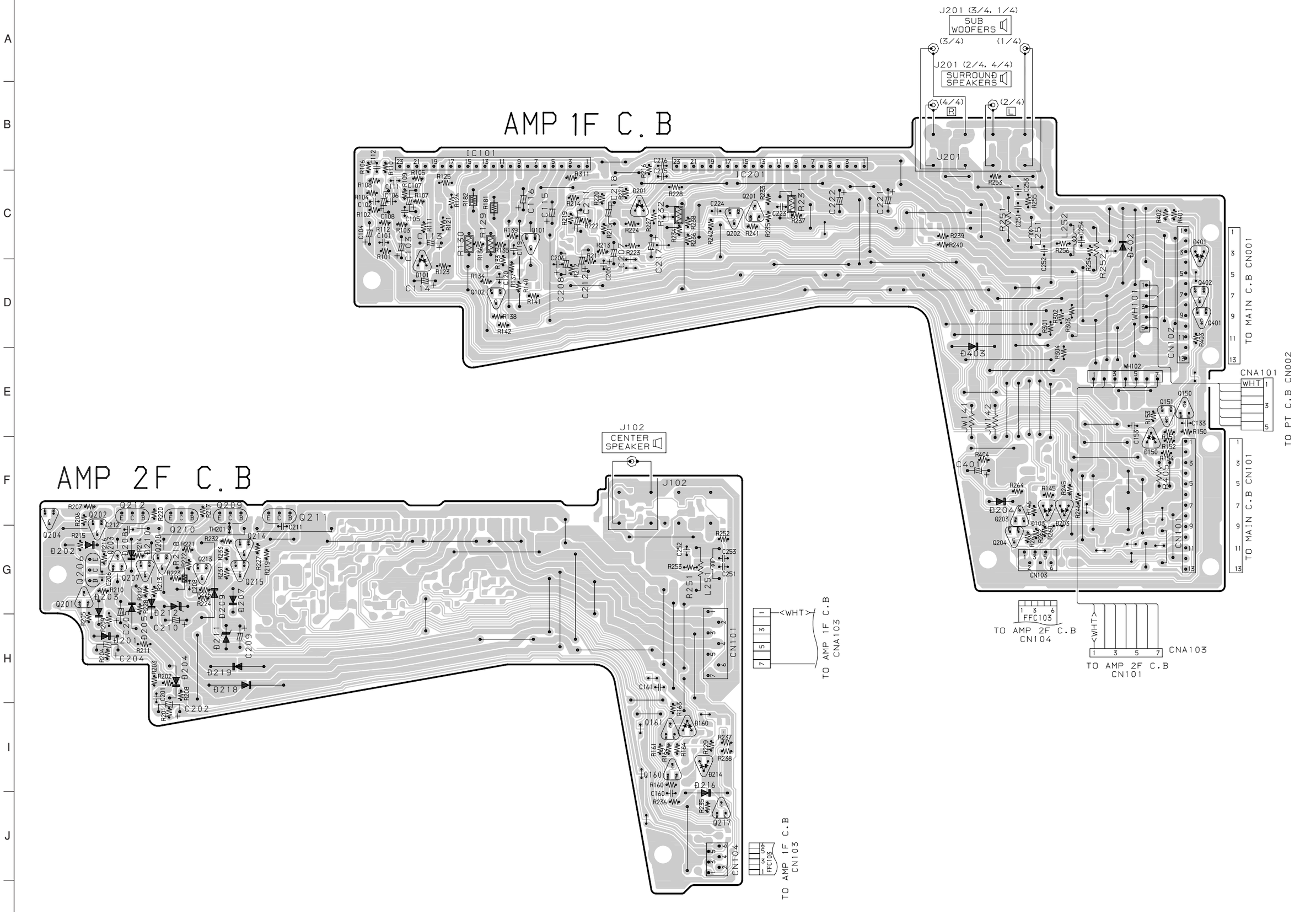
S354
DISC CHANGE

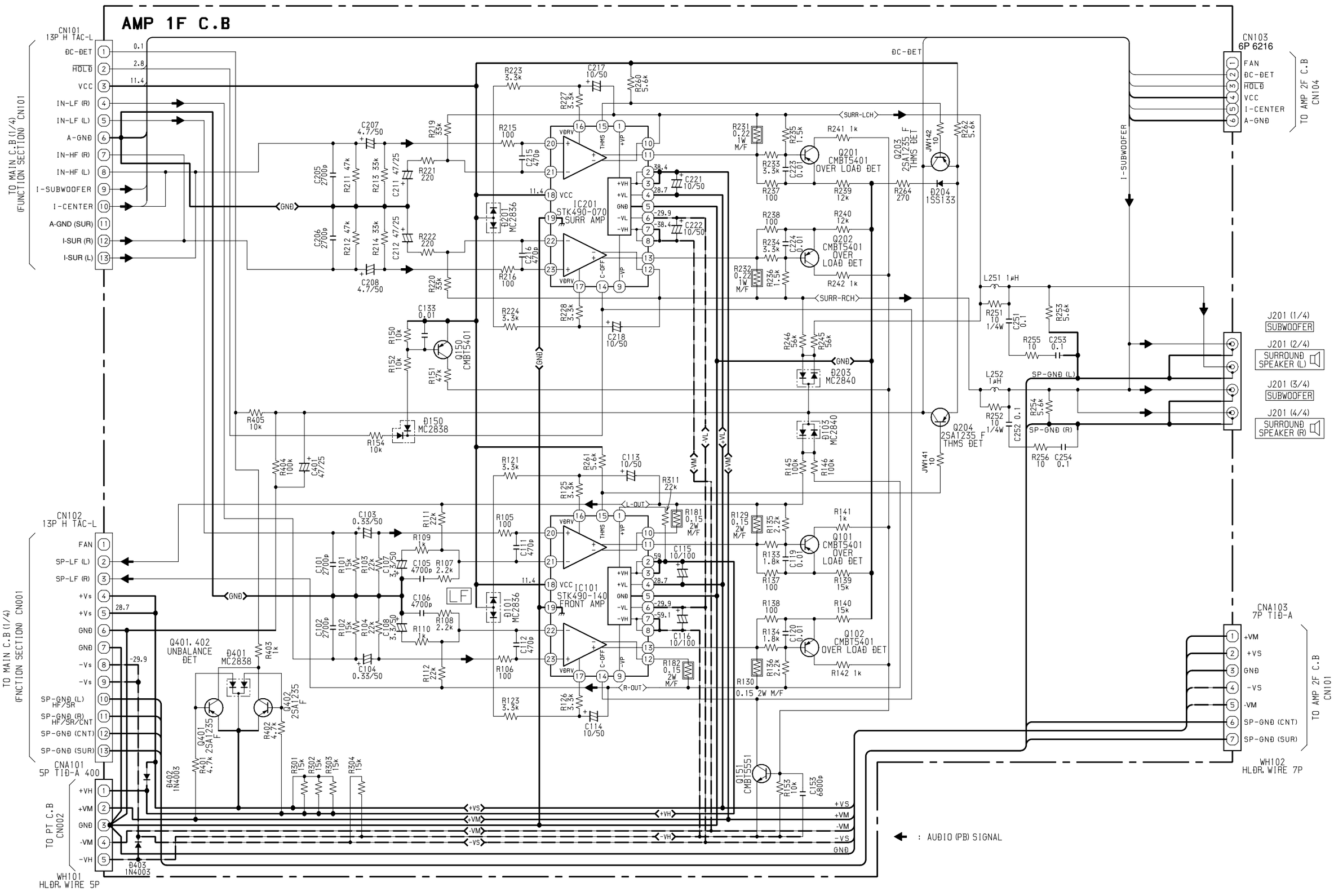
J602
MIC2

J601
MIC1

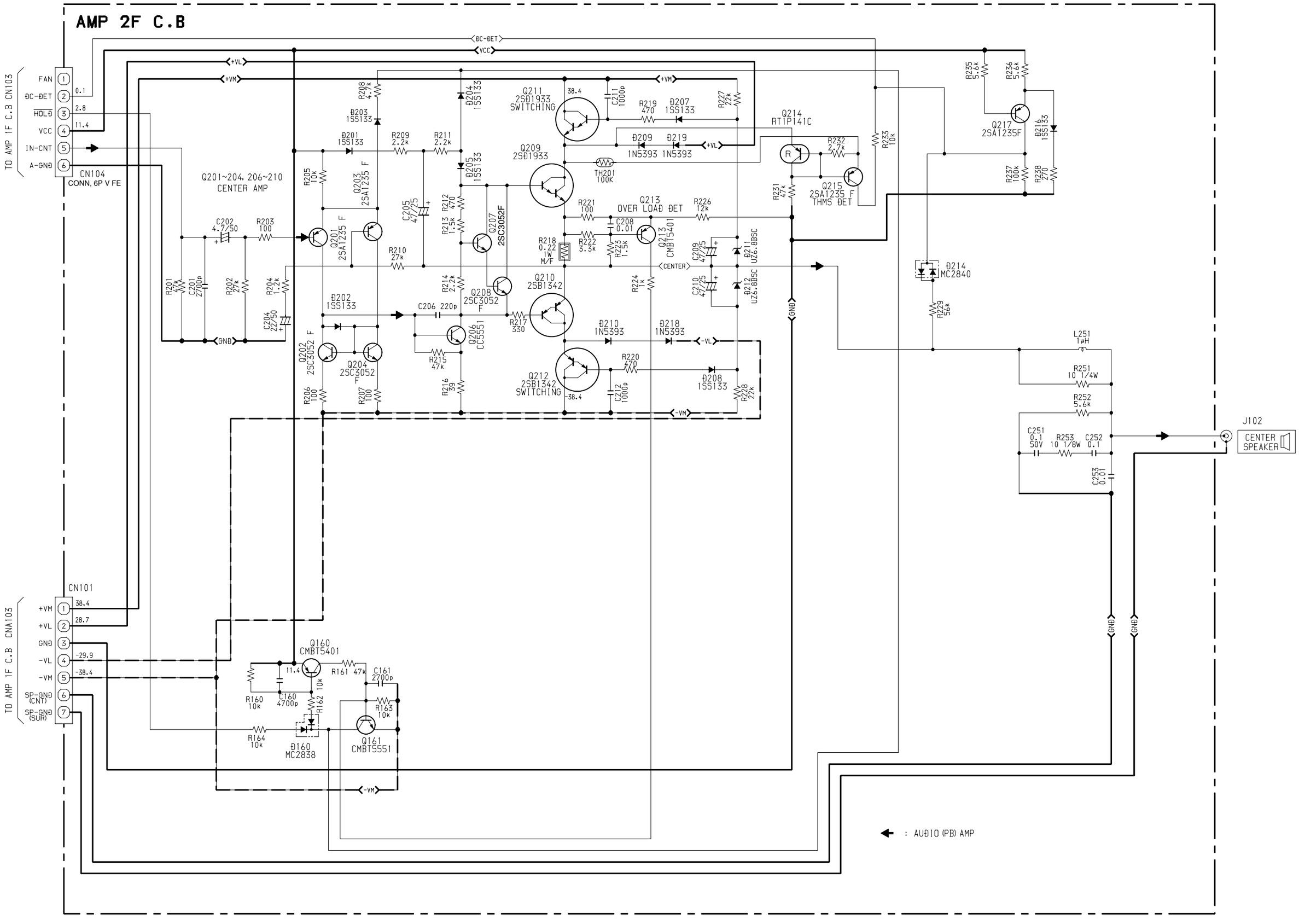
SCHEMATIC DIAGRAM-5 (FRONT SECTION)



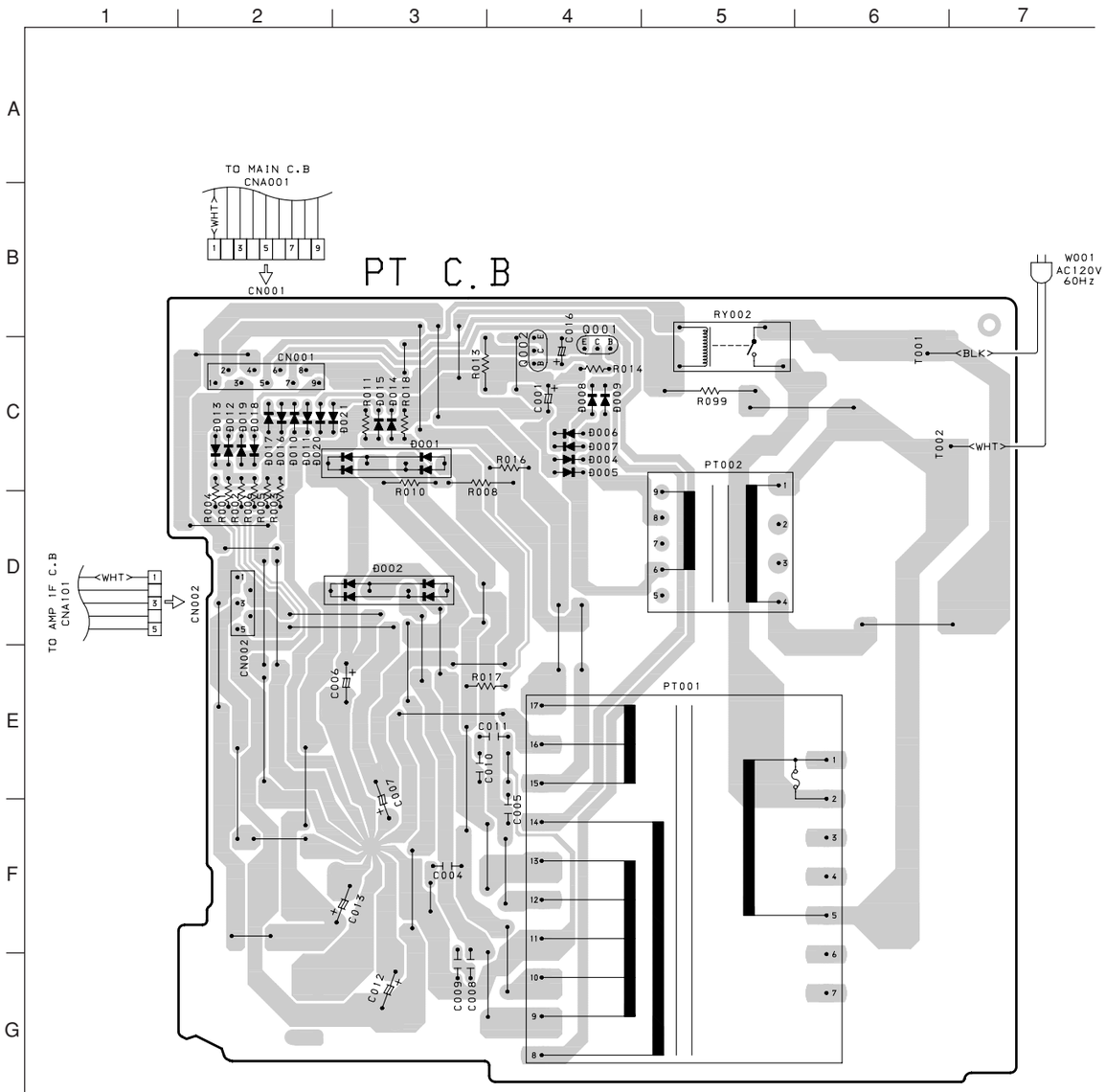

AMP 1F C.B
AMP 2F C.B
J201 (3/4, 1/4)
SUB WOOFERS
(3/4)
(1/4)
J201 (2/4, 4/4)
SURROUND SPEAKERS
(4/4)
R
(2/4)
L
J201
J102
CENTER SPEAKER
IC101
IC201
CN101
CN102
CN103
CN104
WH101
WH102
CNA101
TO MAIN C.B CN001
TO PT C.B CN002
TO MAIN C.B CN101
TO AMP 1F C.B CNA103
TO AMP 2F C.B CN104
TO AMP 2F C.B CN101
TO AMP 1F C.B CN103
FFC103
WHT


AMP 1F C.B
CN101
13P H TAC-L
ĐC-ĐET
HOLĐ
VCC
IN-LF (R)
IN-LF (L)
A-GNĐ
IN-HF (R)
IN-HF (L)
I-SUBWOOFER
I-CENTER
A-GND (SUR)
I-SUR (R)
I-SUR (L)
TO MAIN C.B (1/4)
(FUNCTION SECTION) CN001
IC201
STK490-070
SURR AMP
IC101
STK490-140
FRONT AMP
Q201
CMBT5401
OVER LOAĐ ĐET
Q202
CMBT5401
OVER LOAĐ ĐET
Q101
CMBT5401
OVER LOAĐ ĐET
Q102
CMBT5401
OVER LOAĐ ĐET
Q203
2SA1235 F
THMS ĐET
Q204
2SA1235 F
THMS ĐET
Q150
CMBT5401
Q151
CMBT5551
Q401, 402
UNBALANCE
ĐET
Q401
2SA1235
F
Q402
2SA1235
F
CN103
6P 6216
FAN
ĐC-ĐET
HOLĐ
VCC
I-CENTER
A-GNĐ
TO AMP 2F C.B
CN104
J201 (1/4)
SUBWOOFER
J201 (2/4)
SURROUNĐ
SPEAKER (L)
J201 (3/4)
SUBWOOFER
J201 (4/4)
SURROUNĐ
SPEAKER (R)
CNA103
7P TIĐ-A
+VM
+VS
GNĐ
-VS
-VM
SP-GNĐ (CNT)
SP-GNĐ (SUR)
TO AMP 2F C.B
CN101
WH102
HLĐR, WIRE 7P
CN102
13P H TAC-L
FAN
SP-LF (L)
SP-LF (R)
+Vs
+Vs
GNĐ
GNĐ
-Vs
-Vs
SP-GNĐ (L)
HF/SR
SP-GNĐ (R)
HF/SR/CNT
SP-GNĐ (CNT)
SP-GNĐ (SUR)
TO MAIN C.B (1/4)
(FNCTION SECTION) CN001
CNA101
5P TIĐ-A 400
+VH
+VM
GNĐ
-VM
-VH
TO PT C.B
CN002
WH101
HLĐR, WIRE 5P
ĐC-ĐET
SURR-LCH
SURR-RCH
I-SUBWOOFER
L-OUT
R-OUT
SP-GNĐ (L)
SP-GNĐ (R)
+VS
+VM
-VM
-VS
GNĐ
+VH
-VH
: AUĐIO (PB) SIGNAL

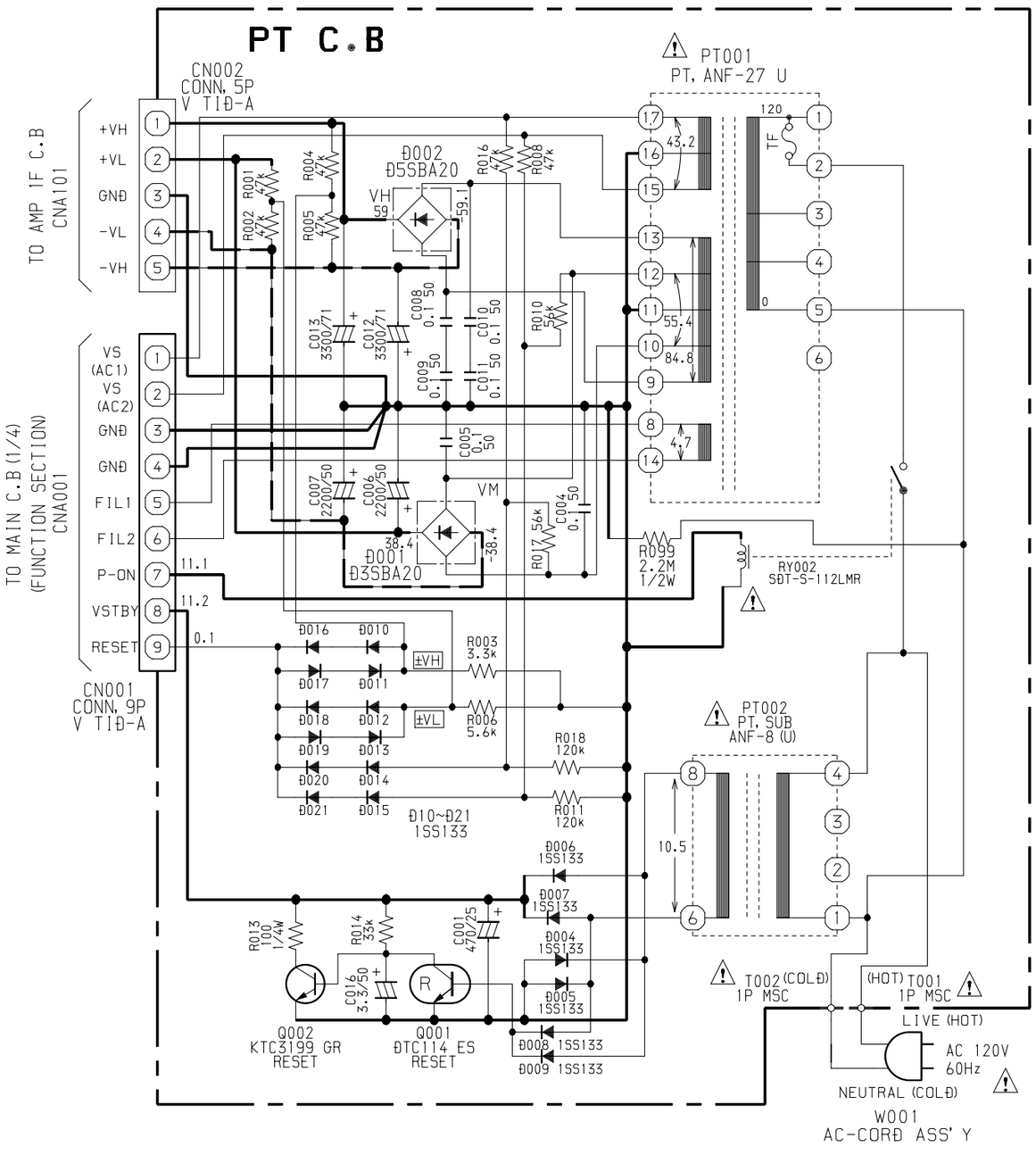
SCHEMATIC DIAGRAM-7 (AMP 2F SECTION)

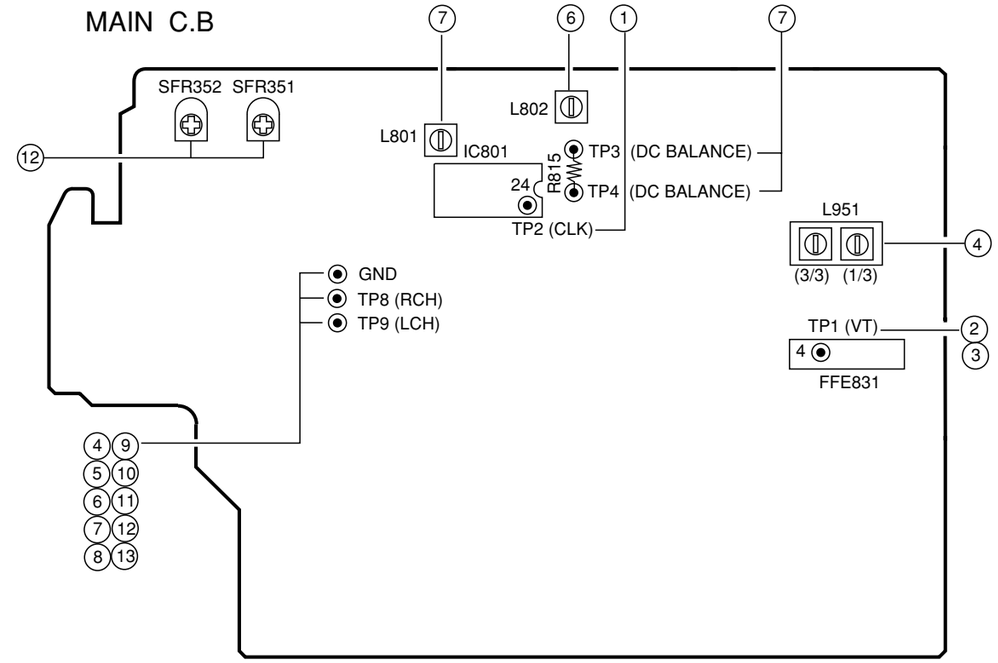


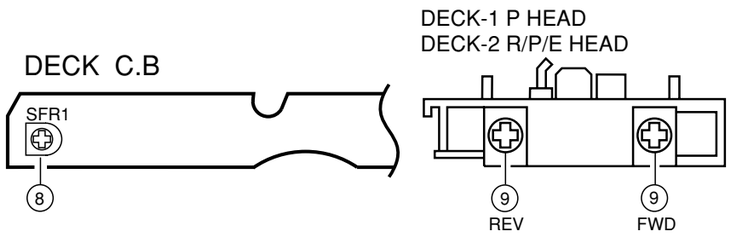
WIRING-5 (PT C.B)

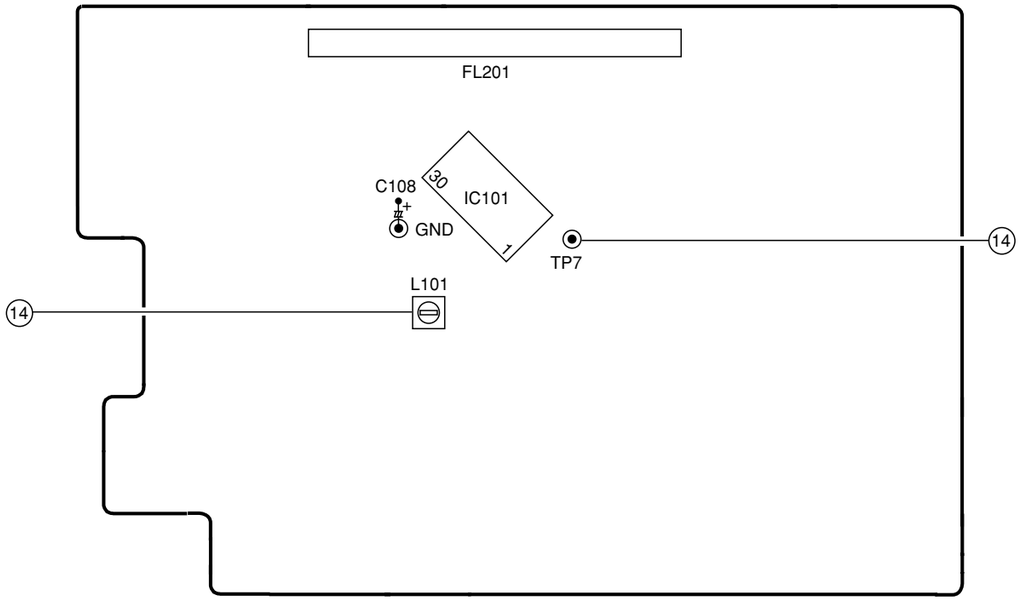


SCHEMATIC DIAGRAM-8 (PT SECTION)









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

3. 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).

4. AM Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L951(1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L951(1/3) so that the level at the test point becomes maximum.

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 9dBµV.

6. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L802 ..... 1000kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP8(Lch), TP9(Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.3V. Next, check that the distortion is less than 1.3%.

< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz and ±45Hz (REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

10. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300
    • Test point :TP8(Lch), TP9(Rch)
    Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

11. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8(Lch), TP9(Rch)
    Method : Play back the test tape and check that the output level of the test point is 140mV ± 3dB.

12. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(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 TP8, TP9 becomes -20VU. 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.

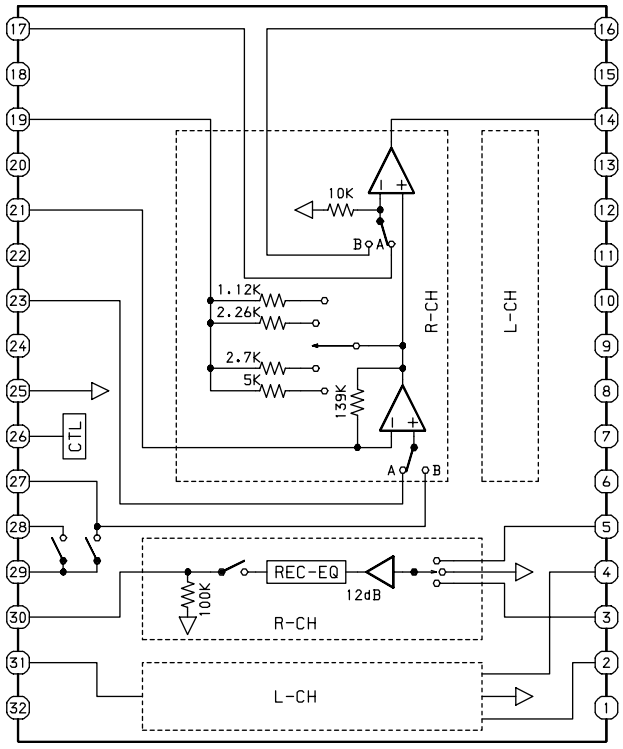
13. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU. Record and play back the 1kHz signals and check that the output is –2dB ± 3.0dB.

< FRONT SECTION >

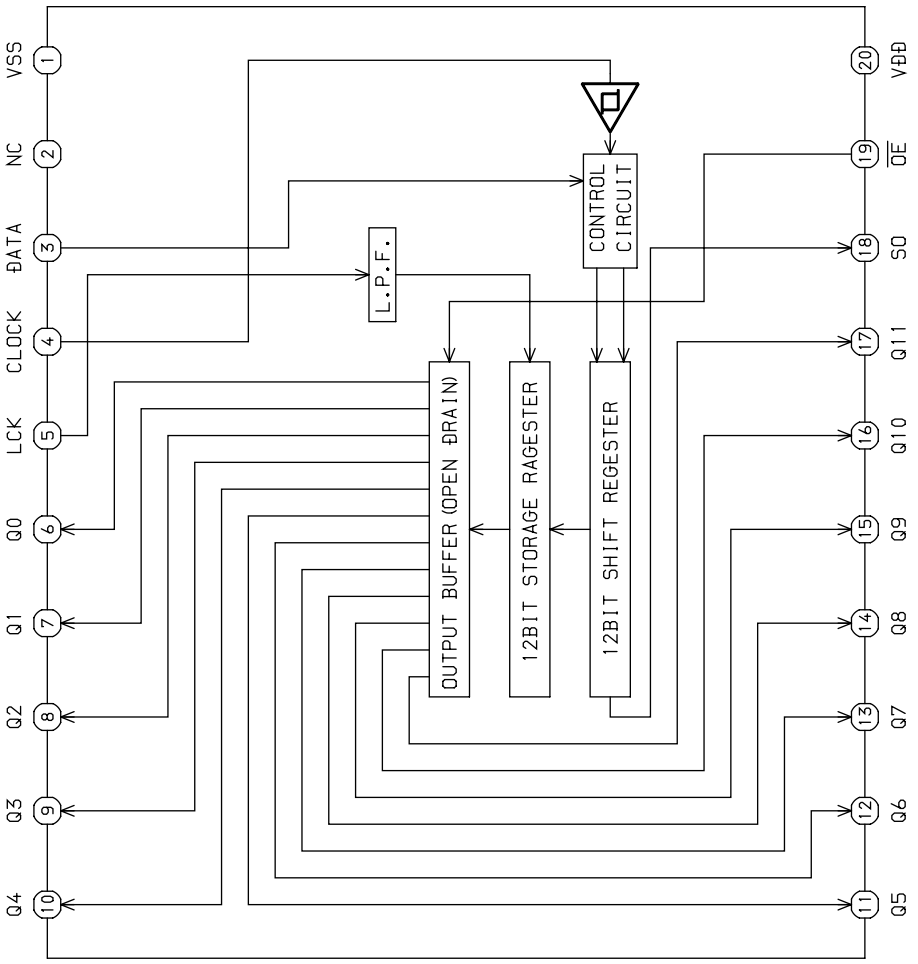
14. µ-CON OSC Adjustment
    Settings : • Test point : TP7 and GND
    • Adjustment location : L101
    Method : Insert AC plug while pressing POWER and TUNER function keys. Adjust L101 so that the frequency at the test point is 208.8Hz ± 0.2Hz.

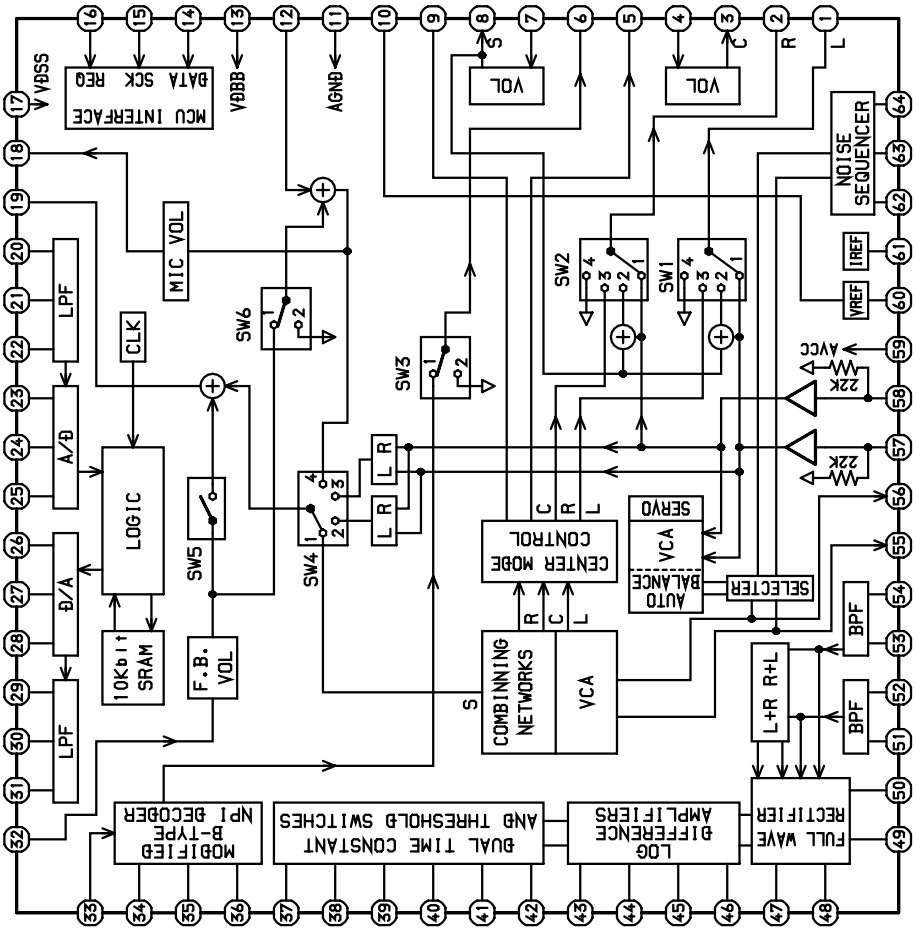
IC BLOCK DIAGRAM-2

IC, BA7762AFS



IC, BU2099FV




MCU INTERFACE
DATA SCK REQ
VBSS
VBBB
AGNB
VOL
VOL
S
C
R
L
NOISE SEQUENCER
IREF
VREF
AVCC
22K
22K
MIC VOL
LPF
CLK
A/D
LOGIC
D/A
10Kbit SRAM
LPF
F.B. VOL
SW1
SW2
SW3
SW4
SW5
SW6
CENTER MODE CONTROL
SERVO
VCA
AUTO BALANCE
SELECTER
COMBINNING NETWORKS
VCA
BPF
BPF
L+R R+L
FULL WAVE RECTIFIER
LOG DIFFERENCE AMPLIFIERS
DUAL TIME CONSTANT AND THRESHOLD SWITCHES
MODIFIED B-TYPE NPI DECODER

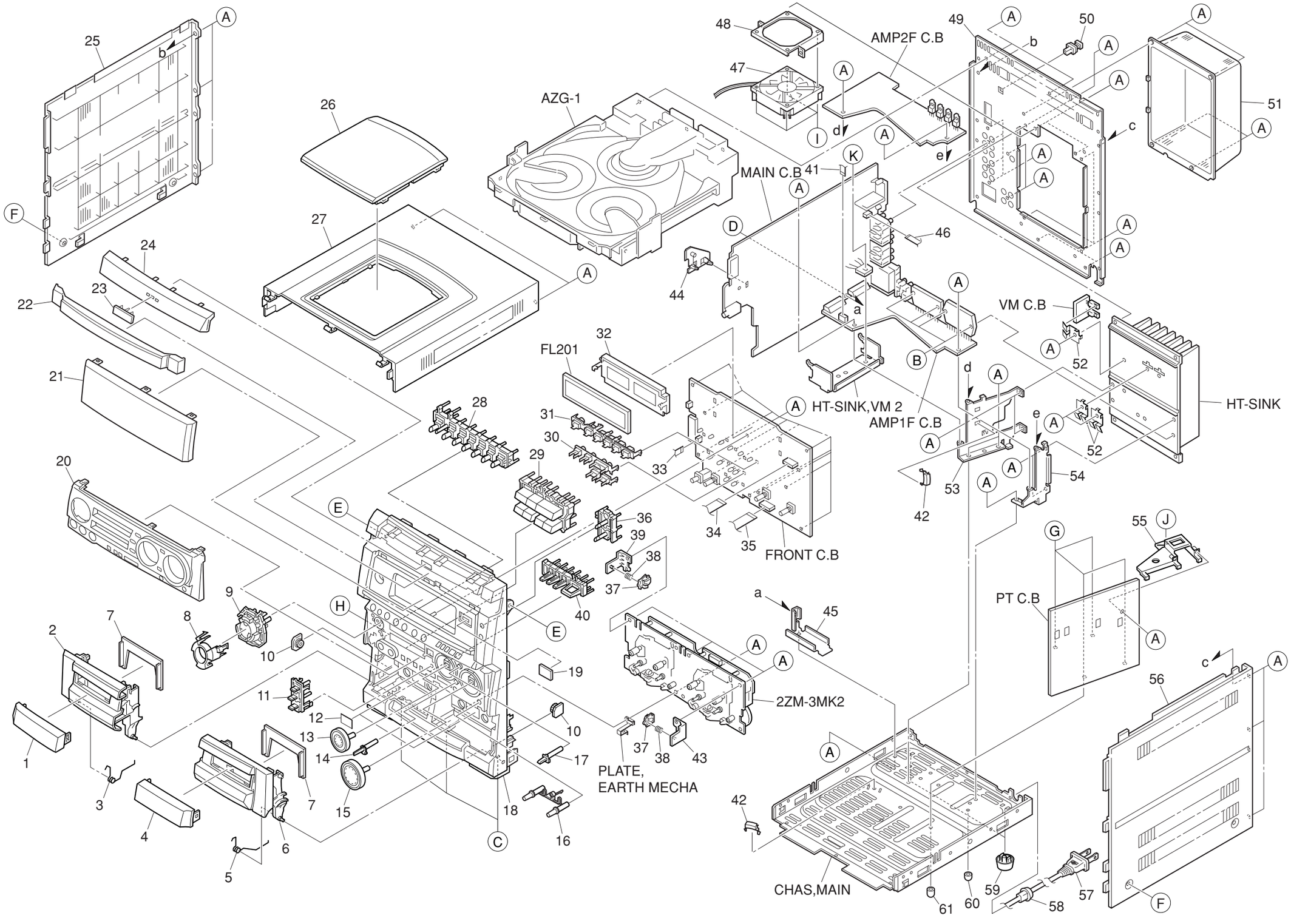
IC DESCRIPTION

IC, LC876572V-5P39

Pin No.	Pin Name	I/O	Description
1	O-CLK	O	Common serial CLOCK output.
2	O-DATA	O	Common Serial DATA output.
3	O-STB	O	Common serial STROBE output.
4	O-POWER	O	System power ON/OFF output.
5	O-STB	O	Strobe output for shift register.
6	$\overline{\text{O-RYM-CS}}$	O	Chip select output for rhythm IC.
7	O-PLL-CE	O	Chip enable output for PLL.
8	I-STEREO	I	Stereo detect input.
9	$\overline{\text{O-CLK SHIFT}}$	O	Tuner clock shift output (active L).
10	$\overline{\text{I-HP-MUTE}}$	I	Headphones connect detect input.
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-DISH	I	CD turn table photo sensor input.
13	I-SPEANA	I	Spectrum analyger level AD input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	I-HOLD	I	Power supply voltage detect A/D input.
19 ~ 21	KEY 1 ~ 3	I	KEY 1 ~ 3 A/D input.
22	I-CDSW	I	CD mechanism SW A/D input.
23	I-RTVR	I	Rotary encorder A/D input for VR.
24	I-JOG	I	Rotary encorder A/D input for MULTI JOG.
25	I-MIC	I	MIC input for auto vocal fader.
26	I-$\overline{\text{MS}}$	I	DECK MS detect input
27	I-TM-BASE	I	Timebase clock (8Hz) input.
28	I-WRQ	I	CD WRQ input.
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L".
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P35 ~ P33	O	FL segment P35 ~ P33 output.
46	VDD3	–	Power supply.
47	P32/SPEANA A	O	FL segment P32 output / Spectrum analyger band select output (A) .
48	P31/SPEANA B	O	FL segment P31 output / Spectrum analyger band select output (B) .
49	P30/SPEANA C	O	FL segment P30 output / Spectrum analyger band select output (C).
50	P29/$\overline{\text{BEAT-M}}$	O/I	FL segment P29 output / Beat master less diode input.
51	-VP	–	Connected to -VFL.
52	P28/AM-ST	O/I	FL segment P28 output / AM-STEREO diode input (Not used).
53	P27/LW	O/I	FL segment P27 output / LW diode input.
54	P26/SW	O/I	FL segment P26 output / SW diode input(Not used).
55	P25/FM1	O/I	FL segment P25 output / FM1 diode input.
56	P24/KASINO	O/I	FL segment P24 output / Initial KASINO DEMO diode input (Not used).
57	P23/ECO	O/I	FL segment P23 output / Initial ECO mode less diode input(Not used).

Pin No.	Pin Name	I/O	Description
58	P22/$\overline{\text{DSP}}$	O/I	FL segment P22 output / DSP less diode input.
59	P21/PRO/5.1	O/I	FL segment P21 output / PRO-LOGIC 5.1CH diode input (Not used).
60	P20	O	FL segment P20 output.
61	P19/DOBLY	O/I	FL segment P19 output / Deck DOBLY diode input.
62	P18	O	FL segment P18 output.
63	P17/AM10K	O/I	FL segment P17 output / AM10 change diode input (Not used).
64	P16/$\overline{\text{CST2}}$	O/I	FL segment P16 output / Deck 2 cassette detect sw input.
65	P15/REB	O/I	FL segment P15 output / Deck side B record permission sw input.
66	P14/CAM2	O/I	FL segment P14 output / Deck 2 CAM sw input.
67	P13/AUTO1	O/I	FL segment P13 output / Deck 1 auto stop input.
68	P12/AUTO2	O/I	FL segment P12 output / Deck 2 auto stop input.
69	P11/$\overline{\text{CAM1}}$	O/I	FL segment P11 output / Deck 1 CAM sw input.
70	P10/CST1	O/I	FL segment P10 output / Deck 1 cassette detect sw input.
71	P9/$\overline{\text{REA}}$	O/I	FL segment P9 output / Deck side A record permission sw input.
72	VDD4	-	Power supply.
73	P8/$\overline{\text{AC-DEMO}}$	O/I	FL segment P8 output / Demo less diode input.
74 ~ 80	P7 ~ 1	O	FL segment output (P7 ~ 1).
81	NC	-	Not connected.
82	O-TRAY CLOSE	O	CD tray close output.
83	O-TRAY OPEN	O	CD tray open output.
84	I-SUBQ	O	CD SUBQ detect input.
85	O-DISH-FWD	O	CD turn table forward revolution output.
86	O-DISH-REV	O	CD turn table reverse revolution output.
87	O-DATA	O	CD data output.
88	$\overline{\text{O-LED-STBY}}$	O	STBY LED on output (STBY LED on during O-POWER OFF).
89	VSS2	-	Connected to GND.
90	VDD2	-	Power supply.
91	$\overline{\text{O-MOTOR}}$	O	DECK motor output.
92	O-MUTE	O	System mute ON/OFF output.
93	$\overline{\text{O-SOL1}}$	O	DECK1 plunger $\overline{\text{ON}}$/OFF output.
94	$\overline{\text{O-SOL2}}$	O	DECK2 plunger $\overline{\text{ON}}$/OFF output.
95	I-DRF	I	CD DRF input.
96	I-IFC	I	Tuner IFC input.
97	NC	-	Not connected.
98	O-CD CLK	O	CD CLK output.
99	O-CD-CE	O	CD CD output.
100	O-KSCAN	O	Key scan timing output.

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL MAIN PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF7-010-010		WINDOW,CASS 1
2	8A-NF7-003-010		BOX,CASS 1
3	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
4	8A-NF7-011-010		WINDOW,CASS 2
5	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
6	8A-NF7-004-010		BOX,CASS 2
7	86-NF6-061-010		REFLECTOR,CASS
8	8A-NF7-012-010		PANEL,DIRECT
9	8A-NF7-041-010		KEY,ASSY CD
10	8Z-NF6-210-010		DMPR,150 N
11	8A-NF7-029-010		KEY,GEQ
12	81-532-080-010		LABEL, CASS. COMPT
13	8A-NF7-048-010		KNOB,RTRY ASSY JOG
14	8A-NF7-024-010		KEY,SURROUND
15	8A-NF7-049-010		KNOB,RTRY ASSY VOL
16	8A-NF7-034-010		KEY,MIC
17	8A-NF7-023-010		KEY,ENTER
18	8A-NFU-003-010		CABI,FR U
19	8Z-NFT-002-010		PLATE,PRO
20	8A-NFU-008-010		PANEL,ASSY FR U
21	8A-NFU-006-010		WINDOW,DISP U
22	8A-NF7-005-010		PANEL,TRAY U
23	87-CE3-023-010		BADGE,AIWA 30N SILV
24	8A-NF7-008-010		PANEL,CD
25	8A-NF8-007-010		PANEL,LEFT V-2
26	8A-NF8-006-010		WINDOW,TOP
27	8A-NF8-005-010		PANEL,TOP
28	8A-NF7-035-010		KEY,ASSY FUN
29	8A-NF7-026-010		KEY,ASSY OPE
30	8A-NF7-214-010		GUIDE,OPE
31	8A-NF7-213-010		GUIDE,FUN
32	87-NF5-203-110		GUIDE,FL(*)
33	8A-NF7-605-010		CONN ASSY 4P V 80M
34	85-NF5-618-010		CABLE,FFC 13P-1.25
35	88-915-171-110		FF-CABLE, 15P 1.25 170MM
36	8A-NF7-021-010		KEY,BBE
37	82-NF5-229-010		PLATE,LOCK
38	86-NF9-224-010		SPR-C,LOCK
39	87-NF4-216-010		HLDR,LOCK 1
40	8A-NFU-002-010		KEY,PRO
41	88-906-151-110		FF-CABLE,6P 1.25
42	87-NF4-221-010		HLDR,CABLE
43	87-NF4-217-110		HLDR,LOCK 2
44	8A-NF8-206-010		HLDR,PWB M
45	8A-NF7-209-010		HLDR,PWB-M BTM
46	85-NF5-617-010		CABLE,FFC 6P-1.25
47	87-A91-711-010		FAN,3110GL-B4W-B34-H
48	8A-NF6-219-010		HLDR,FAN
49	8A-NFU-005-010		PANEL,REAR USM
50	84-ZG1-245-210		CAP,OPTICAL
51	8A-NFU-007-010		COVER, REAR UM
52	8A-NF7-219-010		HLDR,IC2
53	8A-NF7-207-010		HLDR,HT L
54	8A-NF7-208-010		HLDR,HT R
55	8A-NF7-225-010		HLDR,PWB PT 85S
56	8A-NF7-112-010		PANEL,RIGHT V-2
⚠ 57	87-A80-110-010		AC CORD ASSY,U SPT-2W
58	87-A91-422-010		BUSHING,AC CORD(U)
59	87-085-221-010		FOOT,H13.5
60	8Z-NB8-254-010		COVER, PL M3
61	8Z-NB8-240-010		COVER, PL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-581-010		TAPPING SCREW, BVT2+3-15
C	87-067-688-010		BVTT+3-6
D	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
E	87-721-097-410		QT2+3-12 GLD
F	87-067-641-010		UTT2+3-8(W/O SLOT)BL
G	87-078-191-010		S-SCREW,IT+4-10
H	87-723-096-410		QT2+3-10W/O SLOT BL
I	87-067-689-010		BVTT+3-8
J	87-067-579-010		BVT2+3-8
K	87-067-001-010		S-SCREW BVWWST 2+3-12

COLOR NAME TABLE

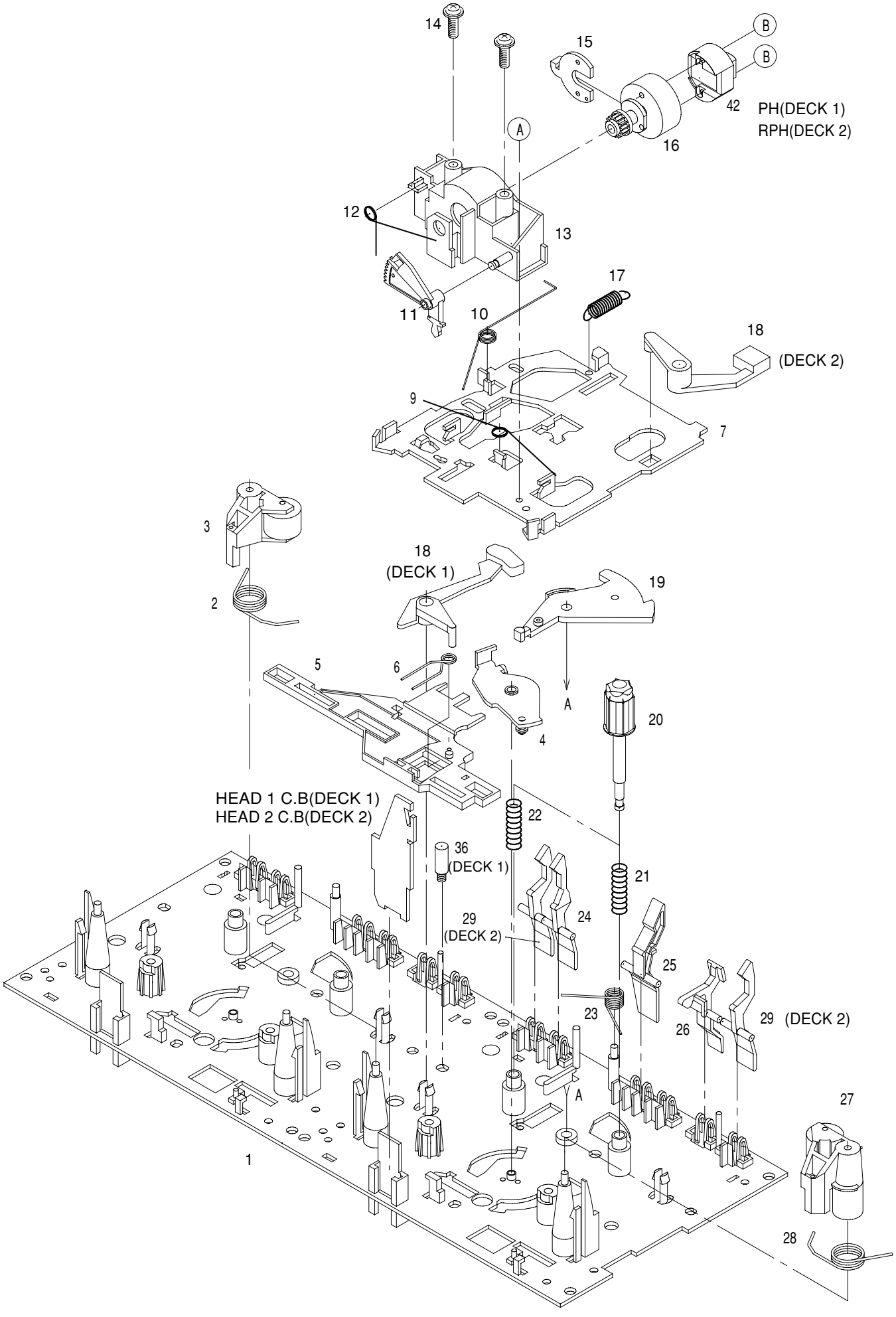
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent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

TAPE MECHANISM PARTS LIST 1/1

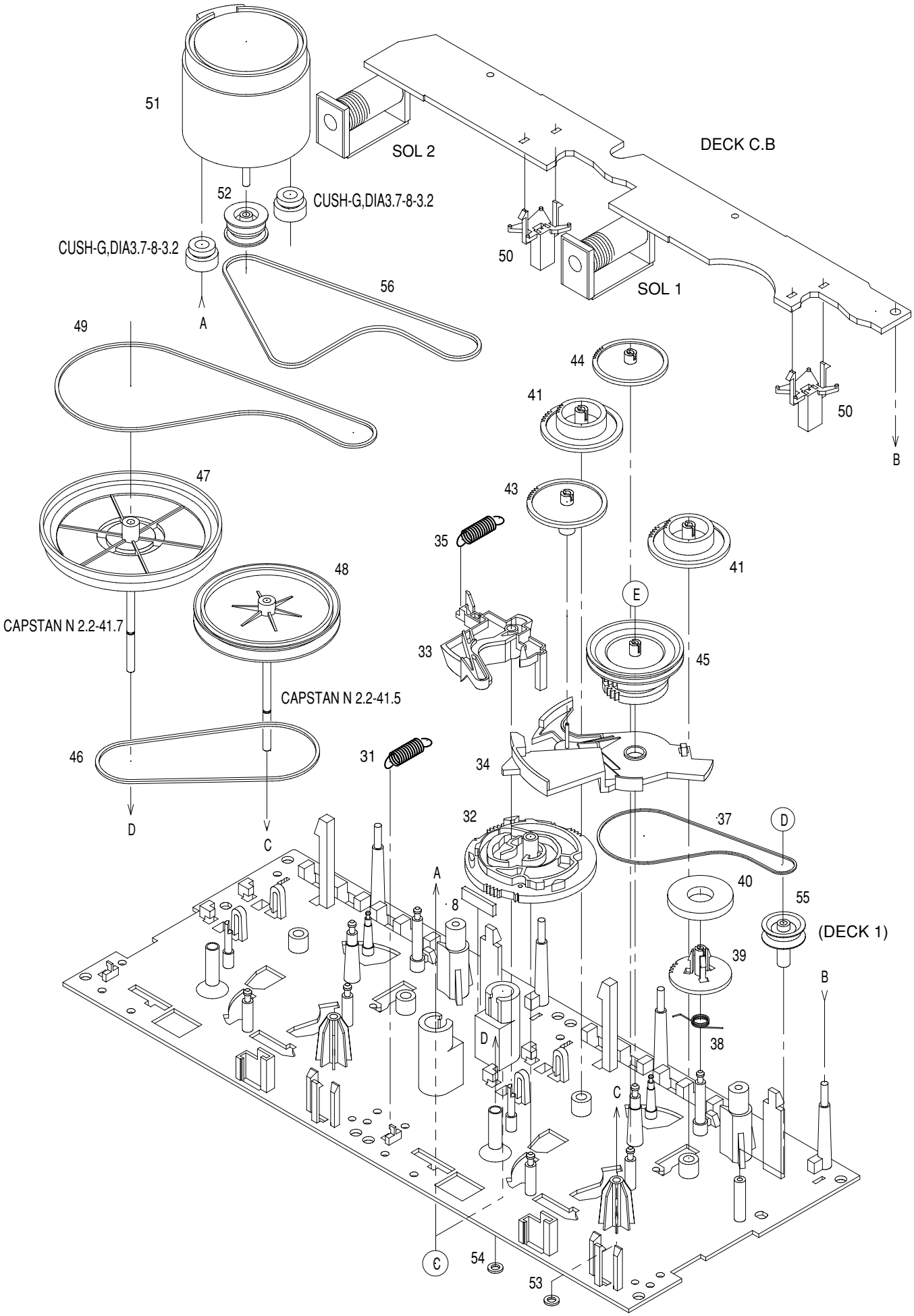
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510	1H	CHAS ASSY,M2
2	82-ZM1-258-110	0E	SPR-T,PINCH L
3	82-ZM1-341-110	1A	LVR ASSY,PINCH L2
4	82-ZM1-333-010	0E	PLATE,LINK 2
5	82-ZM1-266-11K	0E	LVR,DIR
6	82-ZM1-214-010	0E	SPR-T,DIR
7	82-ZM1-206-81K	1A	CHAS,HEAD
8	82-ZM3-340-010	0E	SH,BELT D2
9	82-ZM1-269-210	0E	SPR-T,BRG
10	82-ZM1-219-110	0E	SPR-T,LINK
11	82-ZM1-210-110	0E	GEAR,H T
12	82-ZM1-213-010	0E	SPR-T,HEAD
13	82-ZM1-207-610	0E	GUIDE,TAPE
14	86-ZM4-206-010	0E	S-SCREW,AZIMUTH
15	82-ZM1-314-110	0E	PLATE,HEAD
16	82-ZM1-208-110	0E	HLDR,HEAD
17	82-ZM1-218-010	0E	SPR-E,HB
18	82-ZM1-263-110	0E	LVR,EJECT L (DECK 1)
18	82-ZM1-264-010	0E	LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K	0E	LVR,PLAY
20	82-ZM1-217-310	0E	REEL TABLE
21	82-ZM1-244-510	0E	SPR-C,BT
22	82-ZM1-285-310	0E	SPR-C,BT L
23	82-ZM1-257-010	0E	SPR-T,CAS
24	82-ZM1-241-310	0E	LVR,MC
25	82-ZM1-242-010	0E	LVR,CAS
26	82-ZM1-243-010	0E	LVR,STOP
27	82-ZM1-344-110	1A	LVR ASSY,PINCH R2
28	82-ZM1-259-110	0E	SPR-T,PINCH R
29	82-ZM1-240-11K	0E	LVR,REC (DECK 2)
31	82-ZM1-255-310	0E	SPR-E,LVR DIR
32	82-ZM3-305-01K	0E	GEAR,CAM M2
33	82-ZM1-227-21K	0E	LVR,TRIG
34	82-ZM3-306-11K	0E	LVR,FR M2
35	82-ZM1-265-110	0E	SPR-E,TRIG
36	82-ZM3-339-010	0E	SHAFT,COUPLER N3(DECK 1)
37	86-ZM1-206-010	0E	BELT,MAIN L
38	82-ZM1-322-010	0E	SPR-T,FR60
39	82-ZM1-220-210	0E	GEAR,IDLER
40	82-ZM3-616-010	0E	RING MAGNET 4
41	82-ZM1-216-31K	0E	GEAR,REEL
42	87-A90-319-010	1D	HEAD,PH HADKH2 FPC
42	87-A90-320-010	1F	HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K	0E	GEAR,FR
44	82-ZM1-226-010	0E	GEAR,REW
45	82-ZM3-333-310	1B	SLIP DISK ASSY 2
46	82-ZM1-338-010	0E	BELT FR4
47	82-ZM1-237-610	1A	FLY-WHL ASSY R
47	82-ZM1-234-310	1A	FLY-WHL ASSY L
48	09-001-420-010	1A	FLY-WHL ASSY R W
48	09-001-420-010	1A	FLY-WHL ASSY R W
49	82-ZM3-329-210	0E	BELT,SBU R2
50	82-ZM1-245-210	0E	HLDR,IC
51	87-045-347-019	1H	MOT,SHU2L 70(M1)
52	82-ZM3-221-010	0E	PULLEY,MOT 2M
53	82-ZM1-288-019	0E	SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019	0E	SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210	0E	PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010	0E	BELT,SBU MOT 2
A	85-ZM3-202-010	0E	S-SCREW,TG
B	80-ZM6-207-019	0E	V+1.6-7
C	82-ZM3-318-019	0E	S-SCRW MOTOR M2
D	87-B10-043-010	0E	W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010	0E	PW,2.16-6-0.4

TAPE MECHANISM EXPLODED VIEW 1/2



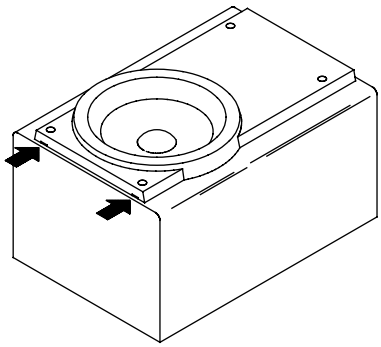
TAPE MECHANISM EXPLODED VIEW 2/2



SPEAKER DISASSEMBLY INSTRUCTIONS

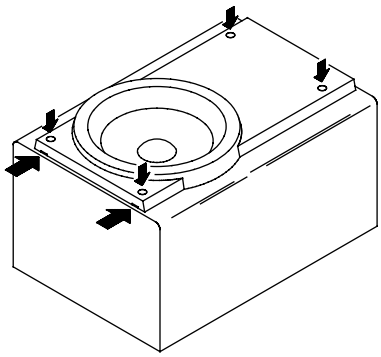
Type.1

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



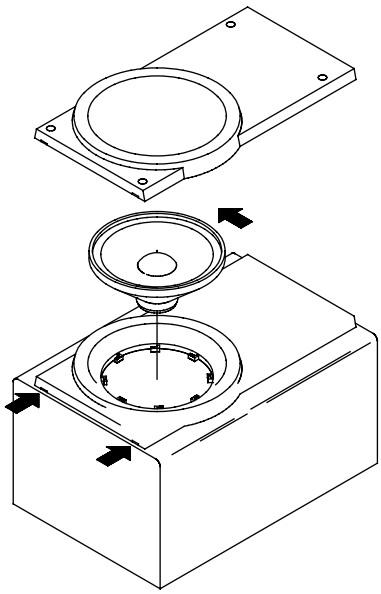
Type.2

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

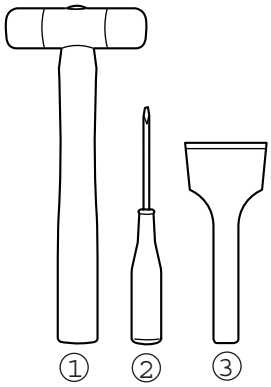


Type.3

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



Type.4



TOOLS

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

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

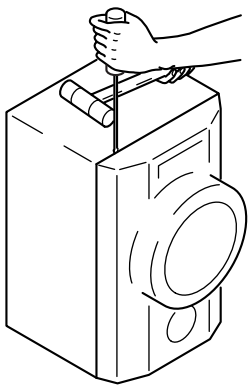


Fig-1

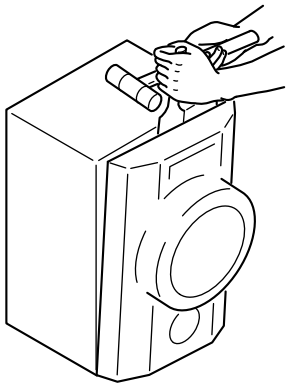


Fig-2

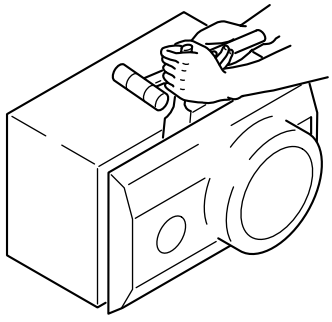


Fig-3

How to Attach the PANEL, FR

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

SPEAKER (SX-NAJ72) PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSH-001-010		PANEL,FR R
2	8A-NSH-002-010		PANEL,FR L
3	8A-NSH-003-010		PANEL,BA
4	8A-NSH-004-010		PANEL,DUCT
5	8A-NSH-005-010		PROTECTOR, TW
6	8A-NSH-006-010		GRILLE,FRAME ASSY
7	8A-NSJ-006-010		BADGE,AIWA S35
8	8A-NSH-010-010		CORD,SPKR
9	8A-NSH-602-010		SPKR, W 150
10	86-NSR-604-010		SPKR, T 60
11	87-NSH-612-010		SPKR,CERAMIC ASSY

SPEAKER (SX-R275) PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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	87-YS1-001-010		CAB,REAR
3	81-VSA-009-010		CORD,BUSH
4	87-010-384-010		CAP,E 100-25 M SME
5	87-YS6-002-010		SPKR,CORD Y
6	87-YS6-601-010		SPKR,100

SPEAKER (SX-C605) PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-010		PANEL,FR ST
2	87-YS3-002-010		PANEL,REAR ST
3	81-VSA-009-010		CORD,BUSH
4	87-YS3-003-010		GRILLE,FRAME ASSY
5	83-NSM-010-010		SPKR,CORD
6	87-YS7-604-010		SPKR,100

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