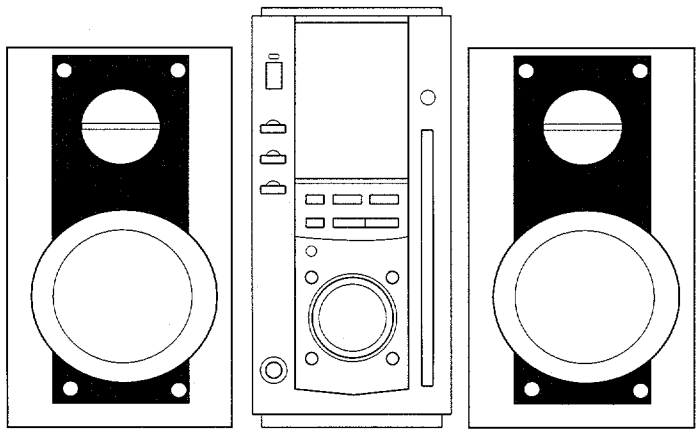
XR-MDS7 EZ



SERVICE MANUAL

MD/CD STEREO SYSTEM

BASIC CD MECHANISM : TN-CCD1001-902M
BASIC MD MECHANISM : AZG-5 YA

SYSTEM	REMOTE CONTROLLER
XR–MDS7	RC–AAT10

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-MDS7 (EZ), (S/M Code No. 09-99C-421-3T2).
- If requiring information about the MD mechanism, see Service Manual of AZG-5 (YA), (S/M Code No. 09-99C-338-1N2).
- This Service Manual does not include "CD ELECTRICAL SECTION". These items will be issued in the next supplement.

aiwa

S/M Code No. 09-002-421-3R2

REVISION

TABLE OF CONTENTS

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW 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

<LW tuner section>

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

<Amplifier section>

Power output	Rated: 12 W + 12 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 15 W + 15 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER 20 W + 20 W
Inputs	VIDEO/AUX: 700 mV DIGITAL IN (OPTICAL) Sampling frequency: 48 kHz/32 kHz Optical input level: more than –21dBm
Outputs	SUPER WOOFER: 0.8 V SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo mini jack): accepts headphones of 32 ohms or more

<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

<MD recorder section>

Scanning method	Non-contact optical scanner (Semiconductor laser application)
Recording system	Magnetic polarity modulation overwrite system
Rotation speed	Approx. 400 to 900 rpm (CLV)
Sampling frequency	44.1 kHz
No. of channels	Stereo: 2 channels Monaural: 1 channels
A-D, D-A converter	1-bit
Frequency	20 to 20000 Hz +0.5 - –1.5 dB
Wow and flatter	Unmeasurable

<General>

Power requirements	230 V AC, 50 Hz
Power consumption	55 W
Standby power consumption	1.7 W (power-economizing mode set to ON)
Dimensions of main unit (W x H x D)	100 x 210.2 x 271.5 mm
Weight of main unit	3.6 kg

<Speaker system>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 85 mm Tweeter: 22 mm dome type
Impedance	6 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W x H x D)	100 x 206 x 188 mm
Weight	1.5 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.

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.

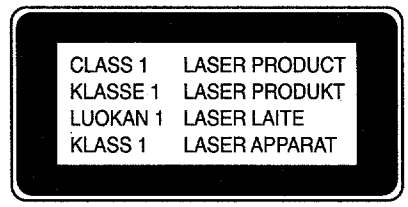
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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.

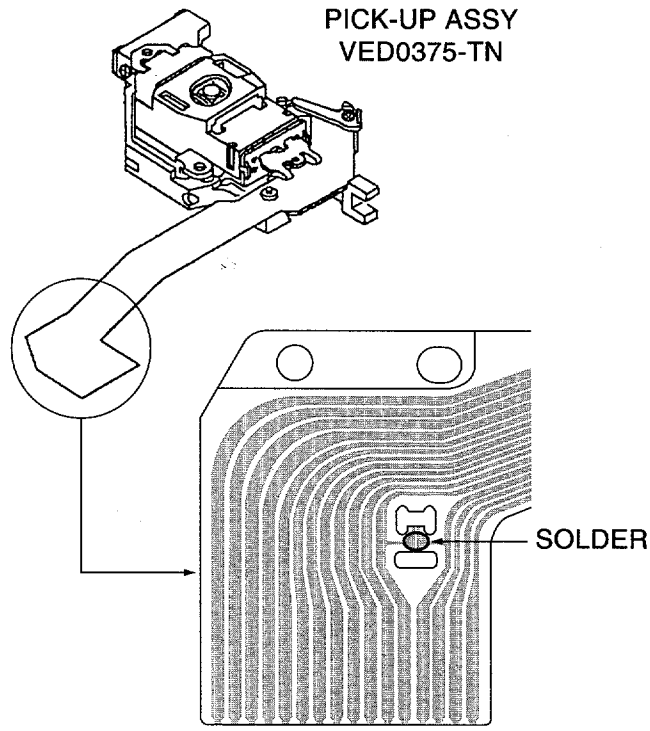


Precaution to replace Optical block

(VED0375-TN)

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.

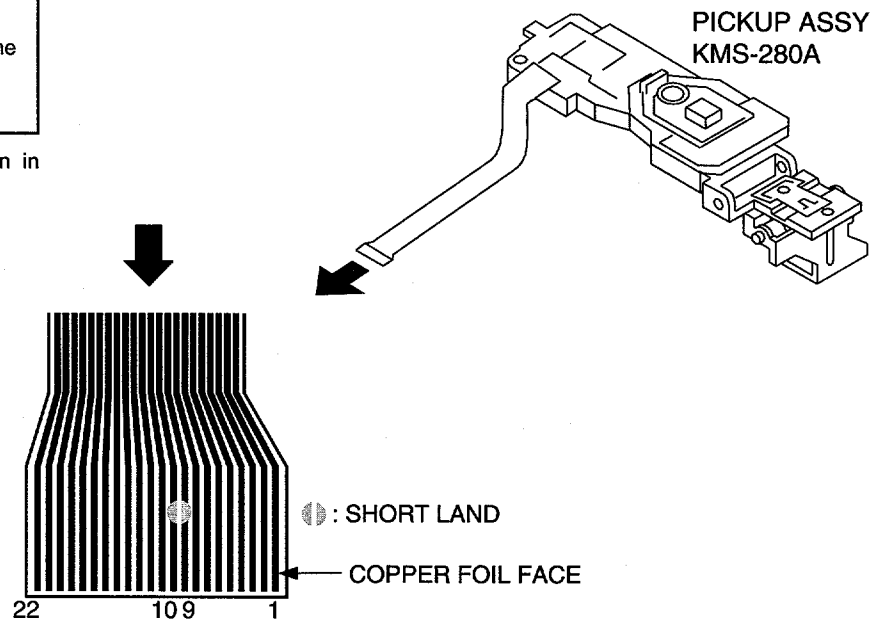


Precaution to replace Optical block

(KMS-280A)

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.



SERVICE JIG AND TOOLS

The distance between the FRONT C.B and the MAIN C.B may be extended with the jig when repairing the FRONT C.B.

Name: JIG, EXT 18P
No.: SV-J00-071-010

1 Assemble Method

1) Remove the solders on the pattern side of JIG C.B.
2) Remove the covers by pushing the picks of sockets (as shown by Figure 1).
3) Insert and solder the parts into JIG C.B (as shown by Figure 2).
4) Insert FFC cable into each connector to connect a socket part and a plug part (Figure 2).

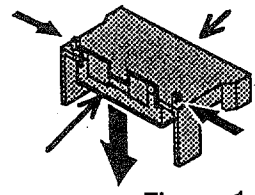


Figure 1

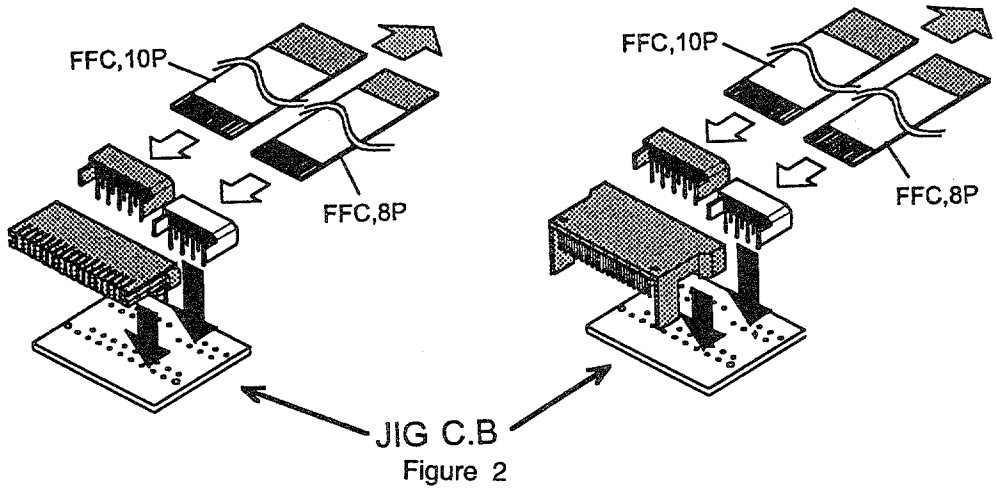
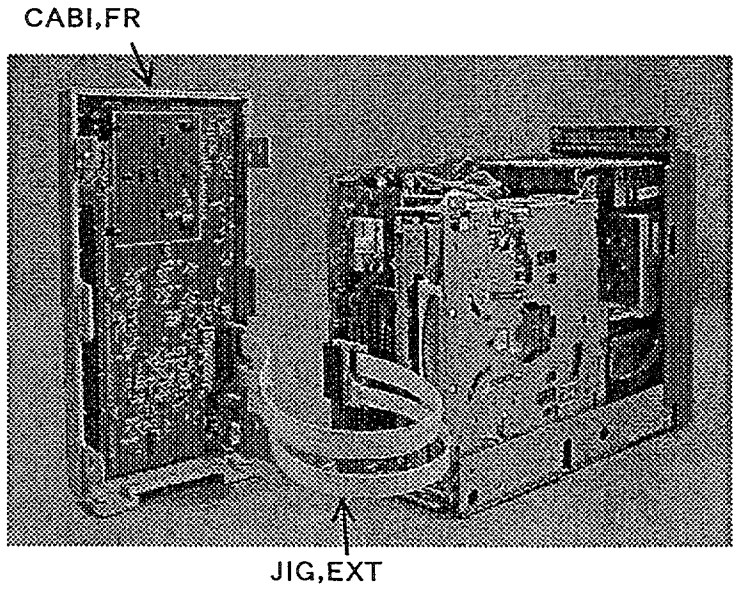


Figure 2

2 Connection

As shown in the figure below, connect the plug side to the FRONT C.B and the socket side to the MAIN C.B.

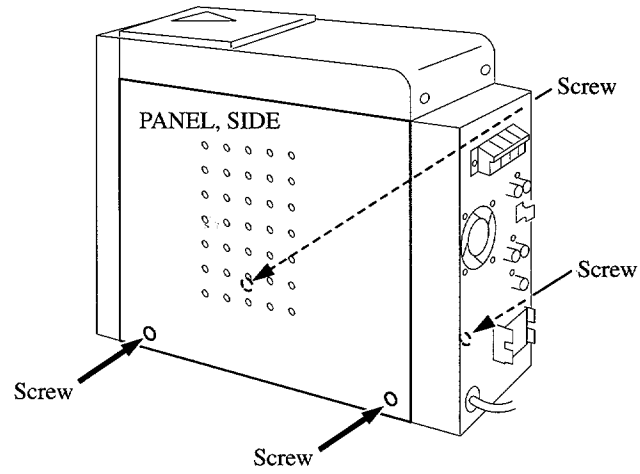
- Beware of short circuit on the pattern side of the JIG C.B, and FFC coming off.



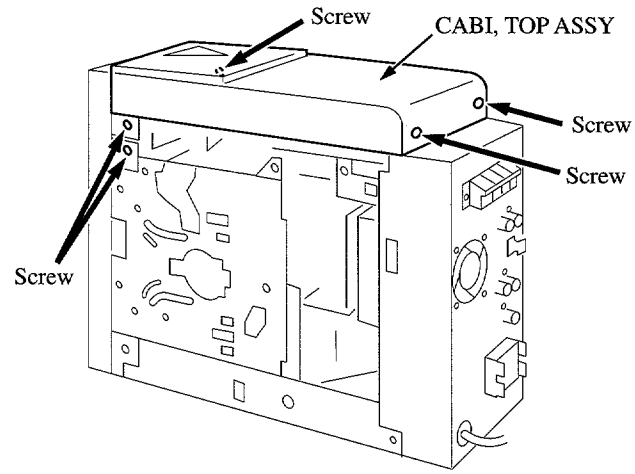
DISASSEMBLY INSTRUCTIONS

1. CD Block

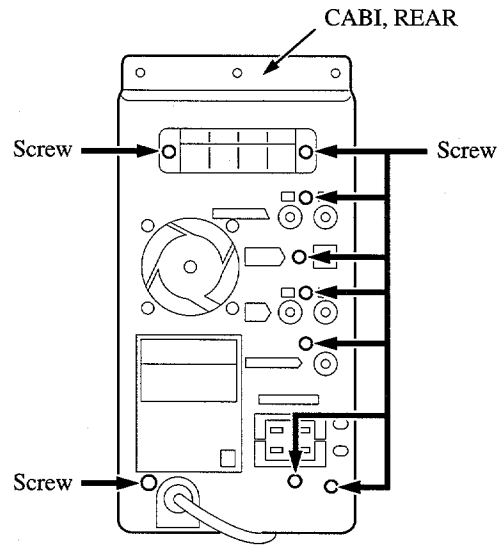
1) Remove the PANEL, SIDE.
Remove the four screws indicated by the arrows and remove the PANEL, SIDEs (right and left).



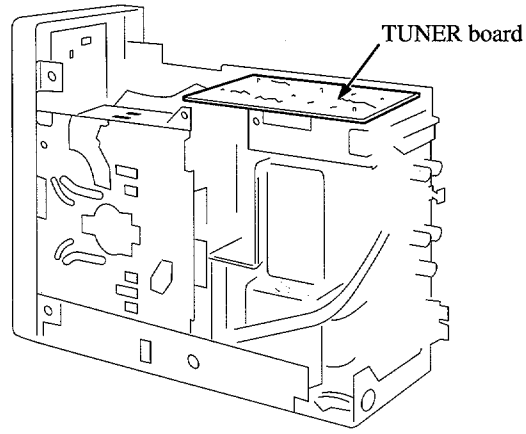
2) Remove the CABI, TOP ASSY.
Remove the five screws indicated by the arrows and remove the CABI, TOP ASSY.



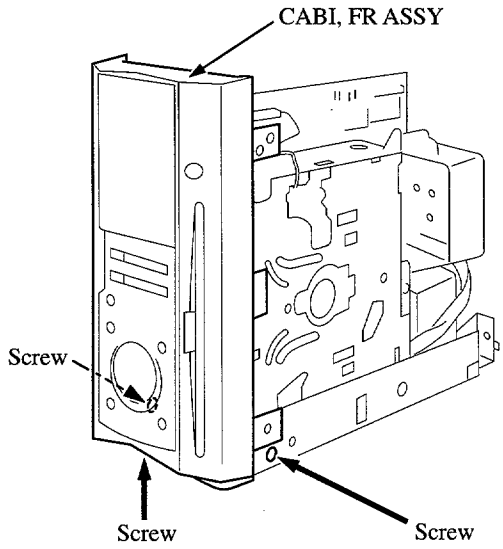
3) Remove the CABI, REAR.
Remove the nine screws indicated by the arrows and remove the CABI, REAR.

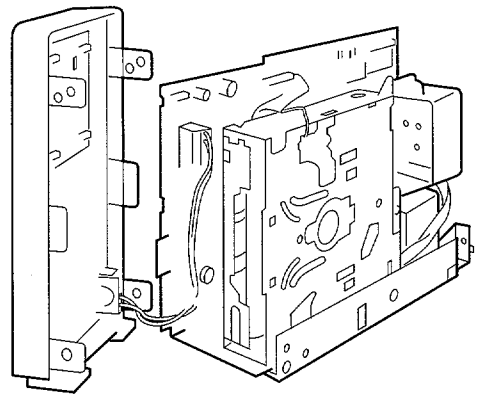


4) Remove the TUNER board.
Remove the TUNER board connected to the connector.

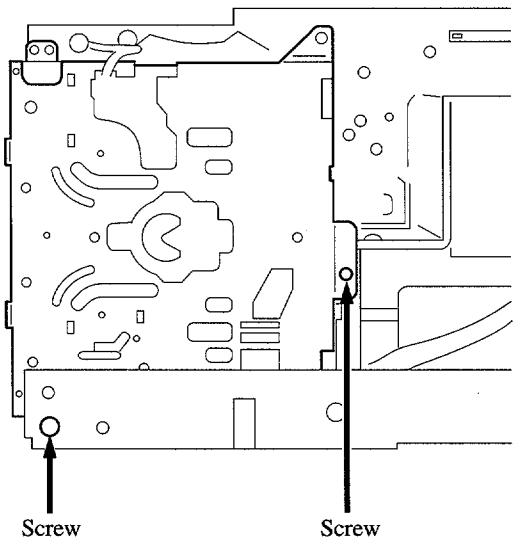


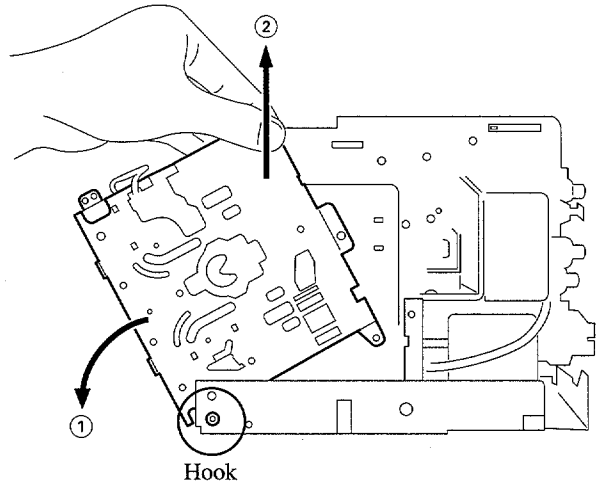
5) Remove the CABI, FR ASSY.
Remove the three screws indicated by the arrows and remove the CABI, FR ASSY.





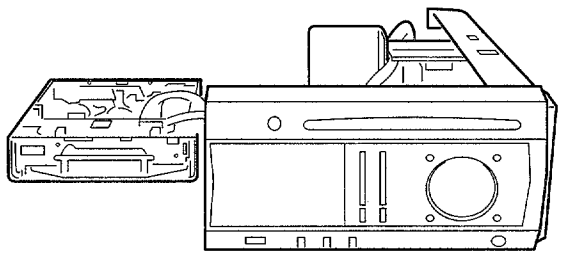
6) Remove the CD MECHA.
(1) Remove the two screws indicated by the arrows.
(2) Lift up the CD MECHA in the direction of the arrow ①
and release the hook indicated in the circle.
(3) Remove the CD MECHA in the direction of the arrow ②.

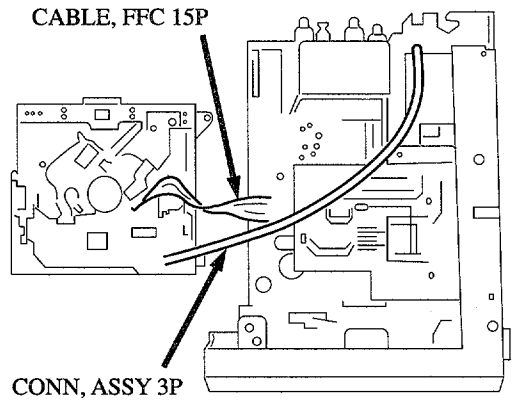




7) Lay the XR-MDS7 in its Service Position.
   (1) Attach the CABI, FR ASSY.
   (2) Place the main unit and the CD unit as shown below.
   (3) Connect the CABLE, FFC 15P and CONN, ASSY 3P to the CD MECHA and turn on the main power.

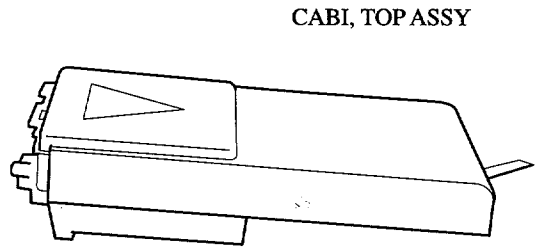
Service Position



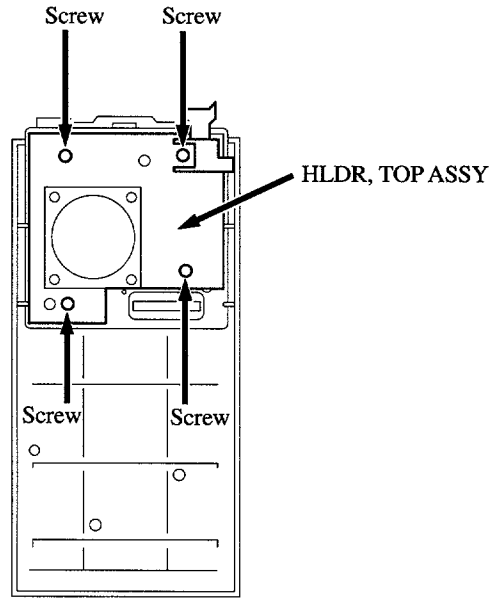


2. MD Block

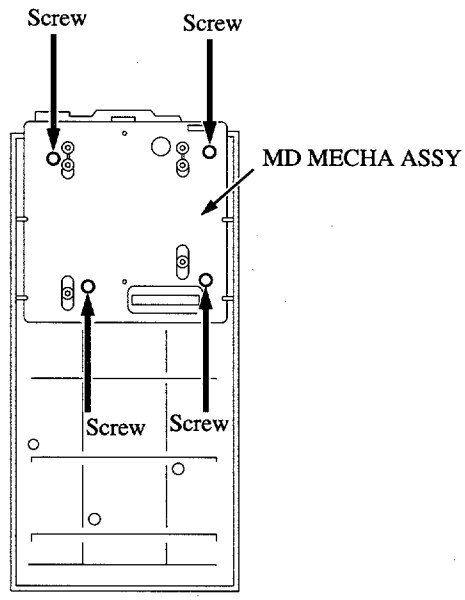
1)
2) Remove the CABI, TOP ASSY in the same procedure as
3) for CD block.



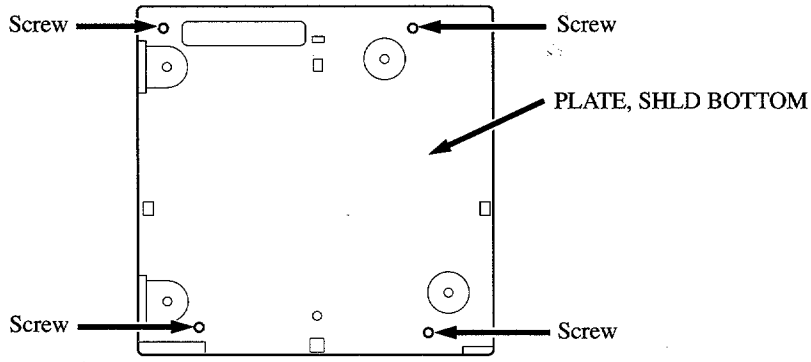
4) Remove the HLDR, TOP ASSY.
Remove the four screws indicated by the arrows and remove the HLDR, TOP ASSY.



5) Remove the MD MECHA ASSY.
Remove the four screws indicated by the arrows and remove the MD MECHA ASSY.

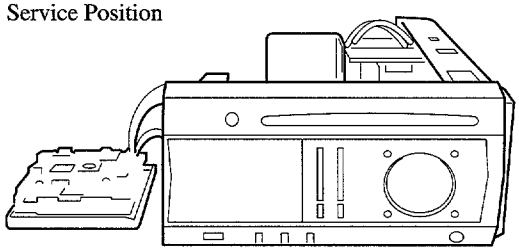


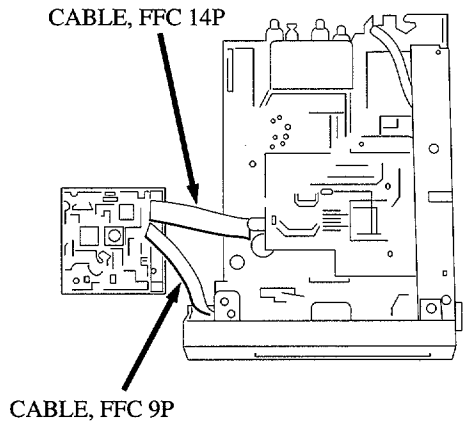
6) Remove the PLATE, SHLD BOTTOM from the MD MECHA ASSY.
Remove the four screws indicated by the arrows and remove the PLATE, SHLD BOTTOM.



7) Lay the XR-MDS7 in its Service Position.
(1) Place the main unit and the MD unit as shown below.
(2) Connect the CABLE, FFC 14P and the CABLE, FFC 9P to the MD MECHA and turn on the power.

Service Position





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			
	8A-CJ5-601-010		C-IC,LC876580W-5N98
	87-070-246-010		IC,GP1U271X
	87-A21-552-010		IC,LA4663A
	87-017-888-080		IC,NJM4558MD
	87-017-915-080		C-IC,BU4094BCF
	87-A21-022-040		C-IC,BA3880FS
	87-A21-103-040		C-IC,MM1454XFBE
	87-A21-111-040		C-IC,M62495FP
	87-A20-971-040		C-IC,SN74LV14APW
	87-A20-870-010		IC,GP1F37R
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A20-440-040		C-IC,BU1920FS
	87-017-585-080		C-IC,NJM4580E
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	89-213-702-010		TR,2SB1370E
	87-A30-076-080		C-TR,2SC3052F
	87-A30-198-080		TR,KTC3199GR
	87-026-610-080		TR,KTC3198GR
	87-A30-075-080		C-TR,2SA1235F
	87-A30-234-080		TR,CSC4115BC
	89-505-434-540		C-FET,2SK543(4/5)
	87-026-609-080		TR,KTA1266GR
	87-026-210-080		C-TR,DTC144EK
	87-A30-087-080		C-FET,2SK2158
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-273-040		C-TR,DTC124EKA
	87-A30-086-070		C-TR,CSD1306E
	87-026-211-080		C-TR,DTA144EK
	87-A30-072-080		C-TR,RT1P 144C
	87-026-297-080		C-TR,DTA144TK
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-071-080		C-TR,RT1N 144C
	89-327-143-080		C-TR,2SC2714(0.1W)
	89-418-580-080		TR,2SD1858TV2
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-654-060		DIODE,GBU6J
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-346-080		ZENER,MTZJ8.2C
	87-A40-345-080		ZENER,MTZJ10C
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-336-080		ZENER,MTZJ27D T-72
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-270-080		C-DIODE,MC2838
	87-A40-004-080		ZENER,MTZJ16A
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-509-080		ZENER,MTZJ6.8C
	87-A40-269-080		C-DIODE,MC2836
	87-A40-293-080		ZENER,DZ2.7M
	87-001-731-080		ZENER,HZS6C2L
	87-A40-299-080		ZENER,DZ5.1M
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C1	87-012-369-080		C-CAP,S 0.047-50F
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C5	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F
C7	87-012-369-080		C-CAP,S 0.047-50F
C8	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-A12-033-090		CAP,E 6800-25 SMG
C10	87-010-409-080		CAP,E 220-50
C11	87-010-553-080		CAP, ELECT 47-16V
C13	87-010-247-080		CAP,E 100-50
C14	87-010-235-080		CAP,E 470-16 M
C15	87-010-387-080		CAP,E 470-25 SME
C24	87-016-251-080		CAP,E 220-16 M SMG
C27	87-012-140-080		CAP 470P
C29	87-010-247-080		CAP, ELECT 100-50V
C30	87-016-044-080		CAP, ELECT 100-16V
C31	87-010-235-080		CAP,E 470-16 SME
C61	87-010-260-080		CAP,E 47-25 SME
C62	87-010-496-080		CAP, ELECT 3.3-50V
C91	87-010-401-080		CAP, ELECT 1-50V
C92	87-010-263-080		CAP, ELECT 100-10V
C93	87-010-553-040		CAP, ELECT 47-16V
C101	87-A11-242-040		CAP,E 220-10 M 5L SRM
C102	87-A11-242-040		CAP,E 220-10 M 5L SRM
C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-198-080		CAP, CHIP 0.022
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C106	87-010-493-040		CAP,E 0.47-50 GAS
C108	87-010-157-080		C-CAP,S 18P-50 SL
C109	87-012-156-080		C-CAP,220P-50 CH
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-079-040		CAP,E 100-6.3 5L
C112	87-010-194-080		CAP, CHIP 0.047
C114	87-010-194-080		CAP, CHIP 0.047
C115	87-010-498-040		CAP,E 10-16 GAS
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C117	87-010-196-080		CHIP CAPACITOR,0.1-25
C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C119	87-010-322-080		C-CAP,S 100P-50 CH
C120	87-010-322-080		C-CAP,S 100P-50 CH
C121	87-010-322-080		C-CAP,S 100P-50 CH
C129	87-010-316-080		C-CAP,S 33P-50 CH
C130	87-012-349-080		C-CAP,S 1000P-50 J CH
C201	87-010-491-040		CAP, ELECT 0.22-50V
C202	87-010-491-040		CAP, ELECT 0.22-50V
C203	87-010-178-080		CHIP CAP 1000P
C204	87-010-178-080		CHIP CAP 1000P
C205	87-010-492-040		CAP, ELECT 0.33-50V
C206	87-010-492-040		CAP, ELECT 0.33-50V
C211	87-010-560-040		CAP, ELECT 10-50V
C212	87-010-260-080		CAP, ELECT 47-25V
C215	87-010-405-080		CAP, ELECT 10-50V
C216	87-010-405-080		CAP, ELECT 10-50V
C217	87-012-368-080		C-CAP,S 0.1-50 F
C218	87-012-368-080		C-CAP,S 0.1-50 F
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-010-405-080		CAP, ELECT 10-50V
C223	87-012-368-080		C-CAP,S 0.1-50 F
C224	87-012-368-080		C-CAP,S 0.1-50 F
C303	87-016-044-040		CAP, ELECT 100-16V
C304	87-016-044-040		CAP, ELECT 100-16V
C305	87-010-494-040		CAP, ELECT 1-50V
C306	87-010-494-040		CAP, ELECT 1-50V
C307	87-010-553-040		CAP, ELECT 47-16V
C308	87-016-044-040		CAP, ELECT 100-16V
C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-260-080		CAP, ELECT 47-25V
C403	87-010-404-080		CAP, ELECT 4.7-50V
C404	87-010-404-080		CAP, ELECT 4.7-50V
C405	87-010-404-080		CAP, ELECT 4.7-50V
C406	87-010-404-080		CAP, ELECT 4.7-50V
C407	87-010-188-080		CAP,CHIP 6800P
C408	87-010-188-080		CAP,CHIP 6800P
C409	87-012-140-080		CAP 470P
C410	87-012-140-080		CAP 470P

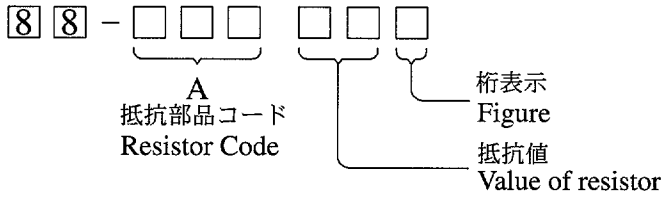
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C411	87-010-404-080		CAP, ELECT 4.7-50V
C412	87-010-404-080		CAP, ELECT 4.7-50V
C413	87-010-404-080		CAP, ELECT 4.7-50V
C414	87-010-404-080		CAP, ELECT 4.7-50V
C415	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-197-080		CAP, CHIP 0.01 DM
C417	87-010-956-080		CHIP-CAP,S 0.068-25B
C418	87-010-956-080		CHIP-CAP,S 0.068-25B
C419	87-010-260-080		CAP, ELECT 47-25V
C421	87-012-140-080		CAP 470P
C422	87-012-140-080		CAP 470P
C552	87-010-112-080		CAP, ELECT 100-16V
C553	87-010-260-080		CAP, ELECT 47-25V
C554	87-010-197-080		CAP, CHIP 0.01 DM
C555	87-010-197-080		CAP, CHIP 0.01 DM
C557	87-010-405-080		CAP, ELECT 10-50V
C573	87-010-405-080		CAP, ELECT 10-50V
C574	87-010-405-080		CAP, ELECT 10-50V
C575	87-010-322-080		C-CAP,S 100P-50 CH
C605	87-010-182-080		C-CAP,S 2200P-50 B
C606	87-010-182-080		C-CAP,S 2200P-50 B
C607	87-010-213-080		C-CAP,S 0.015-25 B
C608	87-010-213-080		C-CAP,S 0.015-25 B
C609	87-010-491-080		CAP, ELECT 0.22-50V
C610	87-010-491-080		CAP, ELECT 0.22-50V
C611	87-010-491-080		CAP, ELECT 0.22-50V
C612	87-010-491-080		CAP, ELECT 0.22-50V
C613	87-010-553-080		CAP, ELECT 47-16V
C614	87-010-553-080		CAP, ELECT 47-16V
C615	87-010-154-080		CAP CHIP 10P
C620	87-010-407-080		CAP, ELECT 33-50V
C621	87-010-407-080		CAP, ELECT 33-50V
C622	87-010-402-080		CAP, ELECT 2.2-50V
C623	87-010-402-080		CAP, ELECT 2.2-50V
C631	87-010-401-080		CAP, ELECT 1-50V
C632	87-010-401-080		CAP, ELECT 1-50V
C633	87-010-197-080		CAP, CHIP 0.01 DM
C634	87-010-197-080		CAP, CHIP 0.01 DM
C635	87-012-154-080		C-CAP,S 150P-50 CH
C636	87-012-154-080		C-CAP,S 150P-50 CH
C637	87-012-154-080		C-CAP,S 150P-50 CH
C638	87-012-154-080		C-CAP,S 150P-50 CH
C639	87-010-404-080		CAP, ELECT 4.7-50V
C640	87-010-404-080		CAP, ELECT 4.7-50V
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C642	87-010-381-080		CAP, ELECT 330-16V
C643	87-010-805-080		C-CAP,S 1-16 ZF
C644	87-010-196-080		C-CAP,S 0.1-25 ZF
C677	87-010-319-080		C-CAP,S 56P-50 J CH
C701	87-010-196-080		C-CAP,S 0.1-25 ZF
C702	87-010-196-080		C-CAP,S 0.1-25 ZF
C703	87-010-196-080		C-CAP,S 0.1-25 ZF
C704	87-012-140-080		C-CAP,S 470P-50 J CH
C705	87-012-349-080		C-CAP,S 1000P-50 J CH
C706	87-012-349-080		C-CAP,S 1000P-50 J CH
C902	87-012-156-080		C-CAP,S 220P-50 CH
C903	87-010-322-080		C-CAP,S 100P-50 CH
CN1	87-A61-142-010		CONN,7P V THL-P07-A1
CN91	87-A60-619-010		CONN,2P V 2MM JMT
CN601	87-A60-902-010		CONN,14P V BLK FMN-BTRK
CN701	87-A60-619-010		CONN,2P V 2MM JMT
CN901	87-A60-770-010		CONN,18P B TMC-D(X)
CN902	87-A60-957-010		CONN,9P V TOC-B
CN903	87-A60-189-010		CONN,16P V TUC-P16P-B1
CN905	87-A61-258-010		CONN,15P V 52806-1510
CNA701	8A-CJ5-634-010		CONN ASSY,2P SHLD
FB701	87-A50-189-080		C-COIL,S BLM21B272S
FC601	8A-CJ5-633-010		CABLE,FFC 14P-1.0-10
FC902	8A-CJ5-632-010		CABLE,FFC 9P-1.0-20
FC905	8A-CJ5-630-010		CABLE,FFC 15P-1.0-20

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J201	87-A60-238-010		TERMINAL,SP 4P(MSC)
J202	87-099-801-010		JACK,PIN 1P BLK
J601	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
JW002	87-008-372-080		FLTR,EMI BL01RN1
L101	87-A50-333-010		COIL,OSC 9.43MHZ
⚠ PR1	87-A90-393-080		PROTECTOR,0.5A 60V 491
⚠ PR2	87-026-689-080		PROTECTOR,1A 60V 491
⚠ PR3	87-A90-195-080		PROTECTOR 7A 125V 49
⚠ PR4	87-A90-195-080		PROTECTOR 7A 125V 49
⚠ PR5	87-026-689-080		PROTECTOR 1A 60V 491
FRONT C.B			
C102	87-010-415-040		CAP,E 10-50
C103	87-012-157-080		C-CAP,S 330P-50 CH
C104	87-010-421-040		CAP,E 4.7-50 5L
C105	87-010-421-040		CAP,E 4.7-50 5L
C106	87-010-408-040		CAP,E 47-50 SME
C107	87-012-369-080		C-CAP,S 0.047-50F
C108	87-010-197-080		CHIP CAPACITOR,0.01-25
C109	87-010-197-080		CHIP CAPACITOR,0.01-25
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-012-368-080		C-CAP,S 0.1-50 ZF
C301	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-778-010		CONN,18P B TMC-D(P)
CN102	87-A60-114-010		CONN,4P H S2M-4WR
FL101	8A-CJ5-608-010		FL,9-ST-18GONK
LED101	87-A40-317-080		LED,SLR-342VCT31 RED
LED301	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
LED302	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
LED303	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
R102	87-022-355-080		C-RES,S10K-1/10W F
R103	87-022-355-080		C-RES,S10K-1/10W F
S102	87-A91-426-010		SW,RTRY 3-2-1 RE01311-2-12PCE
S201	87-A90-095-080		SW,TACT EVQ11G04M
S202	87-A90-095-080		SW,TACT EVQ11G04M
S203	87-A90-095-080		SW,TACT EVQ11G04M
S204	87-A90-095-080		SW,TACT EVQ11G04M
S205	87-A90-095-080		SW,TACT EVQ11G04M
S206	87-A90-095-080		SW,TACT EVQ11G04M
S207	87-A90-095-080		SW,TACT EVQ11G04M
S208	87-A90-095-080		SW,TACT EVQ11G04M
S209	87-A90-095-080		SW,TACT EVQ11G04M
S210	87-A90-095-080		SW,TACT EVQ11G04M
S211	87-A90-095-080		SW,TACT EVQ11G04M
S212	87-A90-095-080		SW,TACT EVQ11G04M
S213	87-A90-095-080		SW,TACT EVQ11G04M
S214	87-A90-095-080		SW,TACT EVQ11G04M
S215	87-A90-095-080		SW,TACT EVQ11G04M
S216	87-A90-095-080		SW,TACT EVQ11G04M
AC C.B			
⚠ C1	87-A10-479-080		CAP,CER 2200P-250 M E KH
C14	87-010-388-080		CAP,E 1000-25 11L SME
C16	87-010-496-080		CAP,E 3.3-50 5L
⚠ CN1	87-A60-645-010		CONN,3P V VH
CN2	87-A60-620-010		CONN,3P V 2MM JMT
⚠ PT1	8Z-NF8-659-010		PT,SUB ZNF-8(E) TAM
⚠ RY1	87-A90-977-010		RELAY,AC12V DG12D1-0(M)
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
HP JACK C.B			
J101	87-A60-420-010		JACK,3.5 ST (MSC)
TUNER C.B			

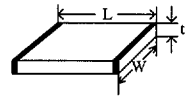
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-381-080		CAP,ELECT 330-16V
C702	87-010-404-080		CAP,ELECT 4.7-50V
C703	87-012-286-080		CAP,U 0.01-25
C704	87-012-286-080		CAP,U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-260-080		CAP,ELECT 47-25V
C712	87-010-831-080		C-CAP,U,0.1-16F
C713	87-012-286-080		CAP,U 0.01-25
C714	87-012-286-080		CAP,U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH
C717	87-012-286-080		CAP,U 0.01-25
C719	87-012-286-080		CAP,U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP,15P
C722	87-012-176-080		CAP,15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-018-131-080		CAP,TC U 1000P-50 KB
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP,ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP,U 0.01-25
C733	87-012-280-080		C-CAP,U 3300P-50 KB
C734	87-012-280-080		C-CAP,U 3300P-50 KB
C752	87-012-282-080		C-CAP,U 4700P-50 KB
C753	87-012-195-080		C-CAP,U 100P-50 J CH
C755	87-012-286-080		CAP,U 0.01-25
C756	87-012-286-080		CAP,U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 ZF
C762	87-012-286-080		CAP,U 0.01-25
C763	87-010-829-080		CAP,U 0.047-16
C765	87-012-286-080		CAP,U 0.01-25
C766	87-010-197-080		C-CAP,S 0.01-25 KB
C768	87-012-286-080		CAP,U 0.01-25
C769	87-010-260-080		CAP,ELECT 47-25V
C770	87-010-829-080		CAP,U 0.047-16
C771	87-010-383-080		CAP,ELECT 33-25V
C772	87-010-829-080		CAP,U 0.047-16
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	87-012-286-080		CAP,U 0.01-25
C777	87-010-493-080		CAP,E 0.47-50 M 5L SRE
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	87-012-286-080		CAP,U 0.01-25
C784	87-012-286-080		CAP,U 0.01-25
C785	87-010-402-080		CAP,ELECT 2.2-50V
C786	87-010-402-080		CAP,ELECT 2.2-50V
C787	87-012-275-080		C-CAP,U 1200P-50 B
C788	87-012-275-080		C-CAP,U 1200P-50 B
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP,ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
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	87-012-276-080		C-CAP,U 1500P-50 KB
C798	87-012-276-080		C-CAP,U 1500P-50 KB
C799	87-010-829-080		CAP,U 0.047-16
C812	87-012-286-080		CAP,U 0.01-25
C814	87-012-286-080		CAP,U 0.01-25
C820	87-010-260-080		CAP,ELECT 47-25V
C821	87-012-286-080		CAP,U 0.01-25
C822	87-012-286-080		CAP,U 0.01-25
C823	87-012-286-080		CAP,U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-012-286-080		C-CAP,U 0.01-25 KB
C861	87-012-199-080		C-CAP,U 220P-50 J CH
C862	87-012-199-080		C-CAP,U 220P-50 J CH
C863	87-012-270-080		C-CAP,U 470P-50 KB
C864	87-010-405-080		CAP,E 10-50 M 11L SME
C865	87-010-196-080		C-CAP,S 0.1-25 ZF
C866	87-010-405-080		CAP,E 10-50 M 11L SME
C867	87-012-286-080		C-CAP,U 0.01-25 KB
C868	87-012-184-080		C-CAP,U 33P-50 J CH
C869	87-012-180-080		C-CAP,U 22P-50 J CH
C940	87-012-286-080		C-CAP,U 0.01-25 KB
C942	87-012-168-080		C-CAP,U 6P-50 D CH
C947	87-012-286-080		C-CAP,U 0.01-25 KB
C949	87-A10-039-080		C-CAP,U 470P-50 J CH
C952	87-012-286-080		C-CAP,U 0.01-25 KB
C958	87-010-197-080		C-CAP,S 0.01-25 KB
C959	87-010-831-080		C-CAP,U 0.1-16 ZF
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP,E 1-50 M 11L SME
CF801	87-008-423-010		FLTR,CF SFE10.7MS3G-A
CF802	82-785-747-010		CF,MS2 GHY R
CN701	87-A60-650-010		CONN,16P H GRY TUC-P16X-C1
FFE801	A8-6ZA-191-130		6ZA-1 FEENM
J801	87-033-241-010		TERMINAL,ANT 2P AJ-2039
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A91-110-010		FLTR,PCFJZH-450(TOK)
L781	87-005-847-010		COIL,2.2UH K CECS
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)
L832	87-005-847-080		COIL,2.2UH K CECS
L851	87-005-847-080		COIL,2.2UH K CECS
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ
L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ
L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)
TC942	87-011-164-010		TRIMMER,CER 30P 4.5X3.9 VCT31
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309

○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



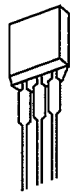
チップ抵抗
Chip resistor

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

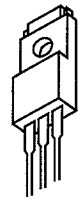
E C B

CSC4115
KTA1266
KTC3198



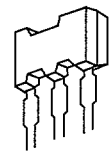
E C B

DTC114ES
KTC3199



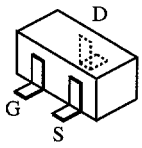
B C E

2SB1370

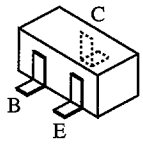


E C B

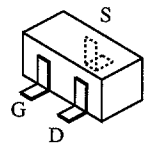
2SD1858TV2



2SK2158



2SA1235
2SC2714
2SC3052
CSD1306
DTC144EK
DTC124EKA
DTA144EK
DTA144TK
RT1N144C
RT1P141C
RT1P144C
RT1N141C



2SK543(4/5)

WIRING – 1 (MAIN)

A MAIN C.B

TO E TUNER C.B CN701

TO D HP JACK C.B CN102

TO CD MECHANISM TN-CCD1001-902M

TO MD MECHANISM AZG-5 YA

TO C AC C.B CN002

TO MD MECHANISM AZG-5 YA

TO CN905

TO CN601

TO CN902

J601 VIDEO/AUX

IC702 DIGITAL IN (OPTICAL)

CNA701 WHT BLK

TO CD MECHANISM TN-CCD1001-902M

TO CN701

J602 LINE OUT

J202 SUPER WOOFER

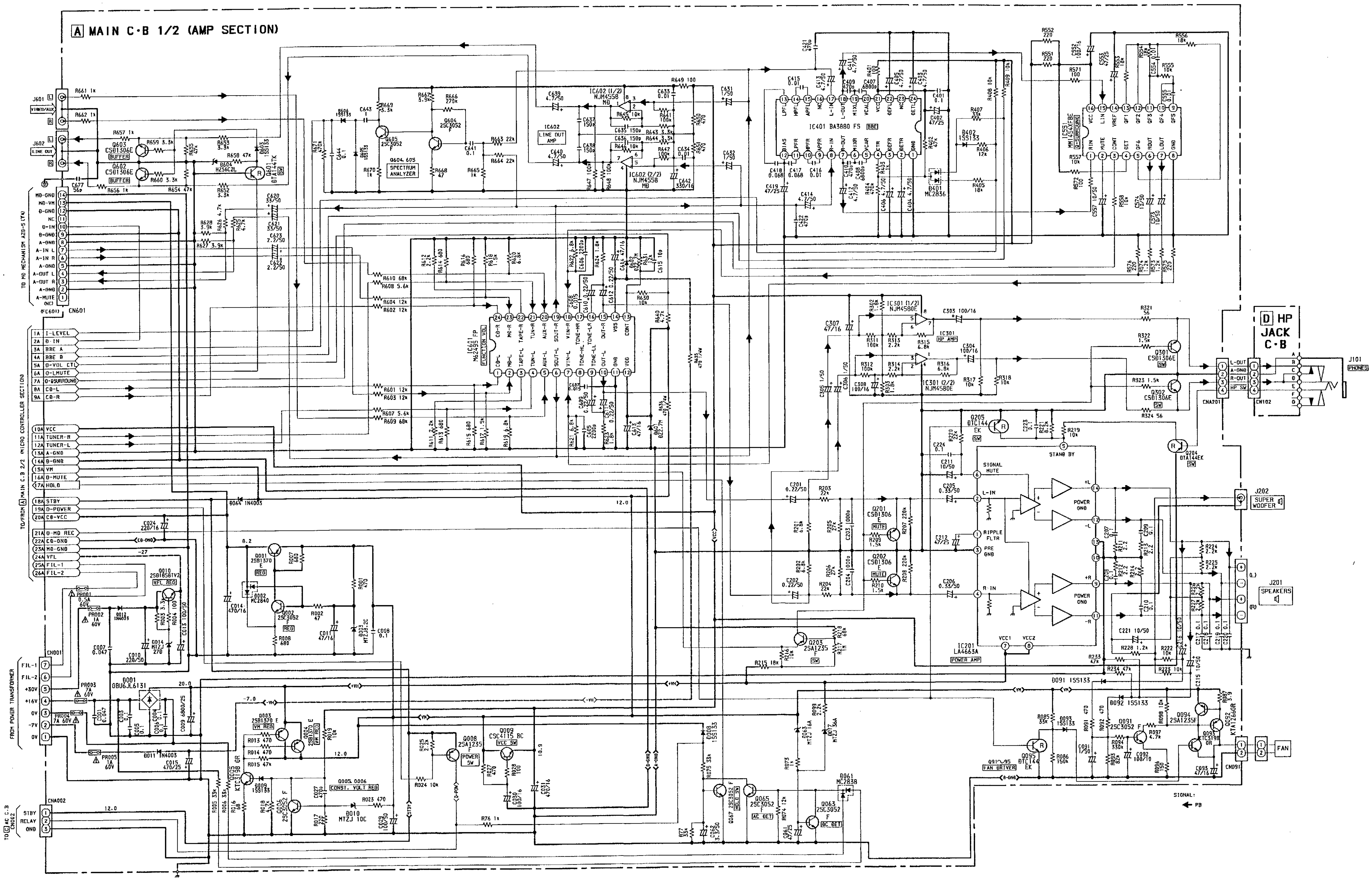
J201 SPEAKERS

TO CN091

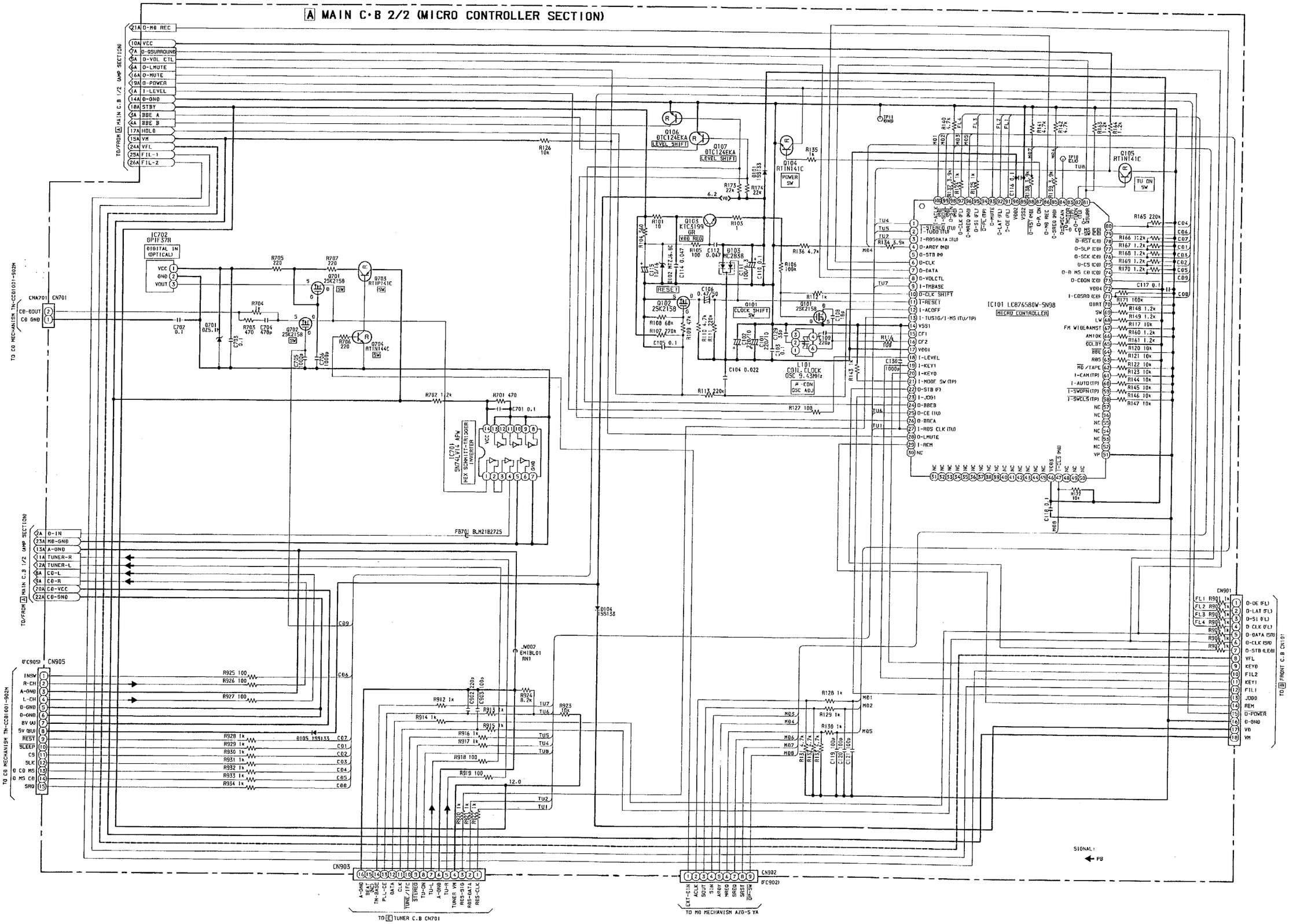
FAN

FROM POWER TRANSFORMER

TO B FRONT C.B CN101

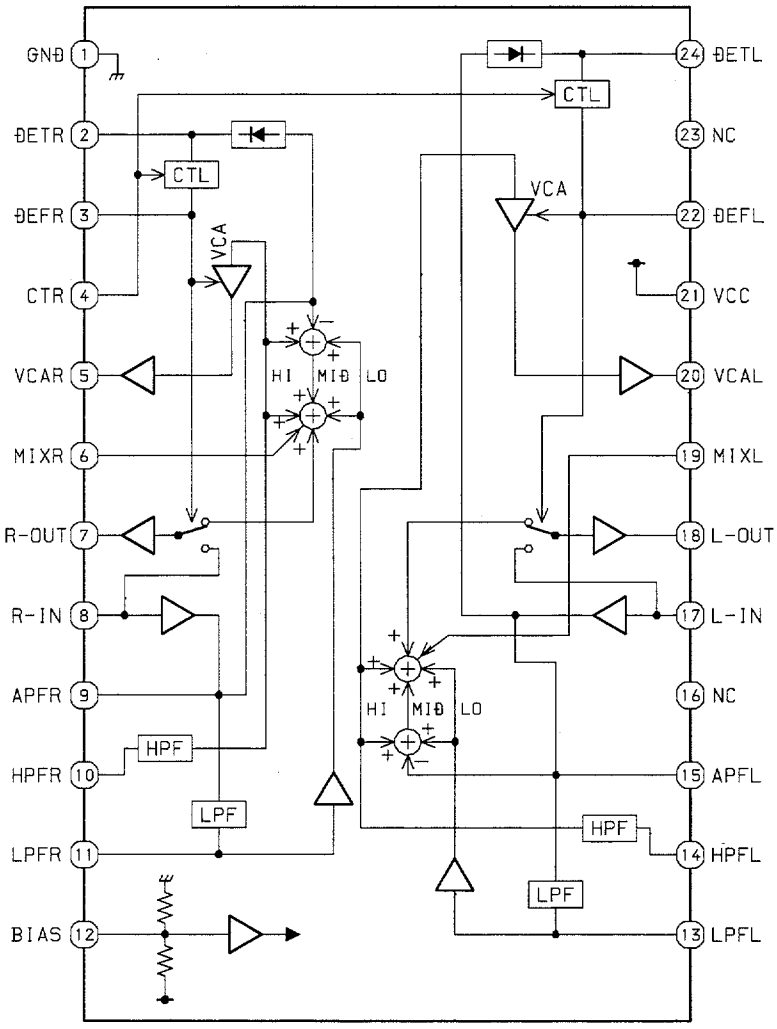

A MAIN C·B 1/2 (AMP SECTION)
J601 VIDEO/AUX
J602 LINE OUT
Q603 CSD1306E BUFFER
Q602 CSD1306E BUFFER
Q601 DTA144TK SW
CN601
TO MD MECHANISM AZG-5 (YA)
TO/FROM A MAIN C.B 2/2 (MICRO CONTROLLER SECTION)
Q604, 605 SPECTRUM ANALYZER
IC602 LINE OUT AMP
IC602 (1/2) NJM4558 MD
IC602 (2/2) NJM4558 MD
IC601 M62495 FP FUNCTION VOL
IC401 BA3880 FS BBE
IC551 MM1454XFBE Q-SURROUND
IC301 (1/2) NJM4580E
IC301 (2/2) NJM4580E
IC301 HP AMP
Q301 CSD1306E SW
Q302 CSD1306E SW
D HP JACK C·B
J101 PHONES
CNA201
CN102
Q205 DTC144 EK SW
Q204 DTA144EK SW
STAND BY
SIGNAL MUTE
L-IN
R-IN
RIPPLE FLTR
PRE GND
POWER GND
IC201 LA4663A POWER AMP
Q201 CSD1306 E MUTE
Q202 CSD1306 E MUTE
Q203 2SA1235 F SW
J202 SUPER WOOFER
J201 SPEAKERS
Q010 2SD1858TV2 VFL REG
Q001 2SB1370 E REG
Q002 2SC3052 F REG
D001 GBU6JL6131
FROM POWER TRANSFORMER
CN001
Q003 2SB1370 E VM REG
Q004 2SB1370 E VM REG
Q005, Q006 CONST. VOLT REG
Q008 2SA1235 F POWER SW
Q009 CSC4115 BC VCC SW
Q067 2SC3052 F HOLD SW
Q065 2SC3052 F AC DET
Q063 2SC3052 F DC DET
D061 MC2838
TO C AC C.B CN002
CNA002
Q091~95 FAN DRIVER
Q095 DTC144 EK
Q091 2SC3052 F
Q094 2SA1235F
Q092 KTA1266GR
Q093 KTC3198 GR
CN091
FAN
SIGNAL: PB

A MAIN C·B 2/2 (MICRO CONTROLLER SECTION)

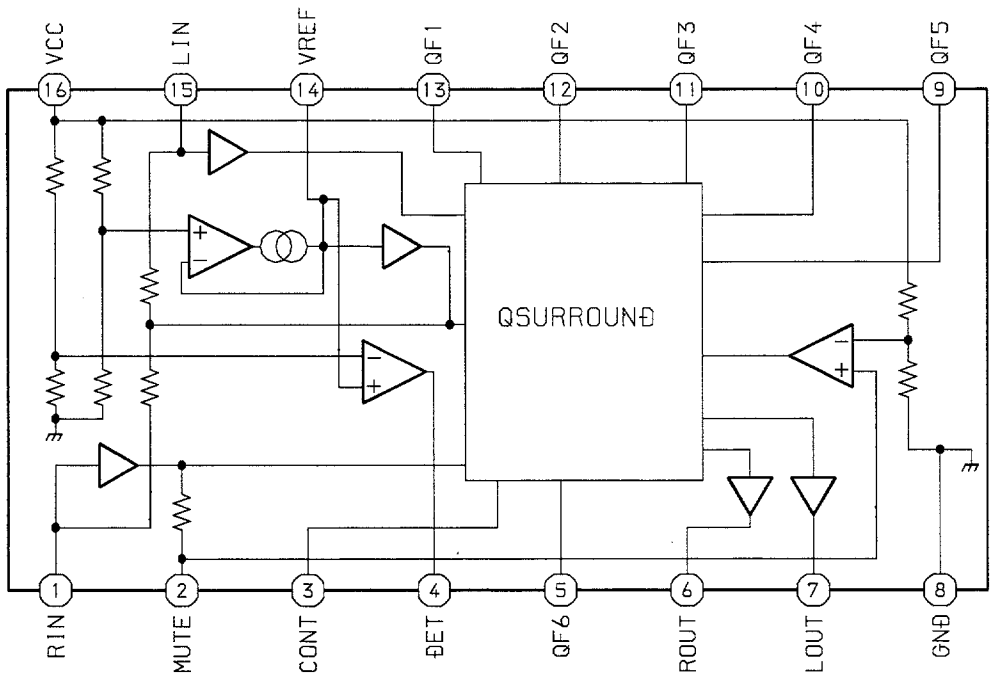


IC BLOCK DIAGRAM – 1

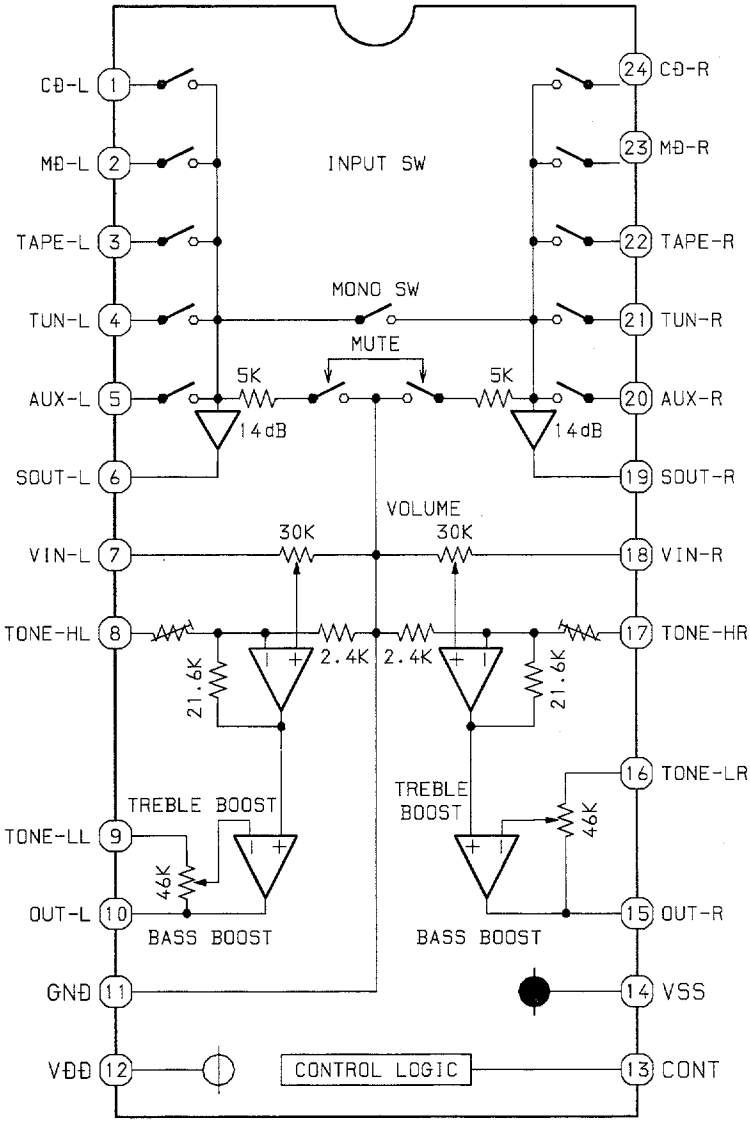
IC, BA3880FS



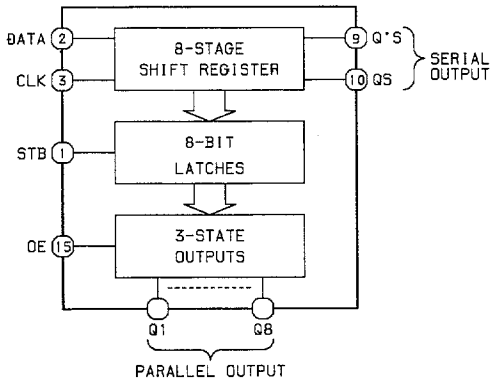
IC, MM1454XFBE



IC, M62495FP



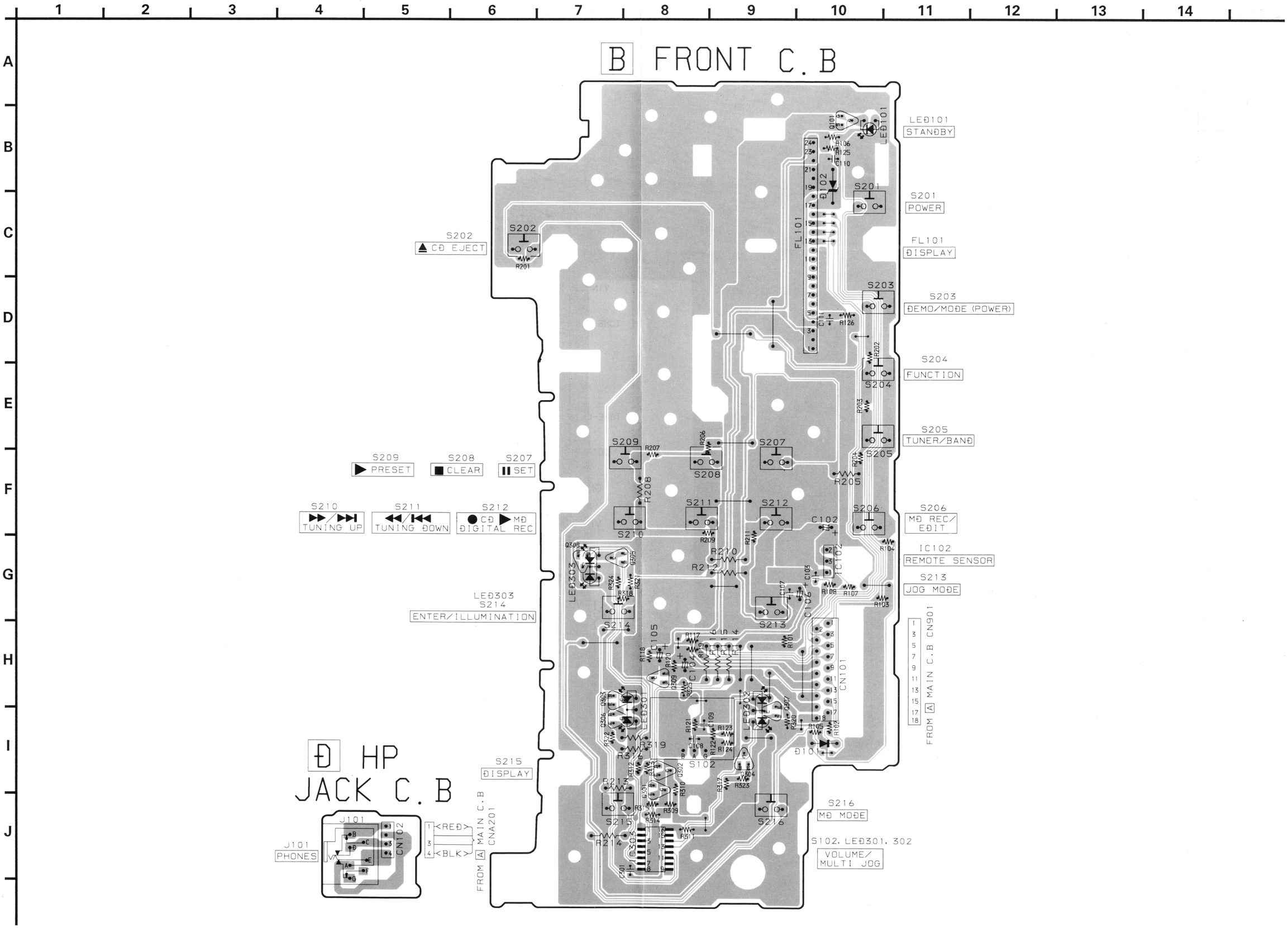
IC, BU4094BCF

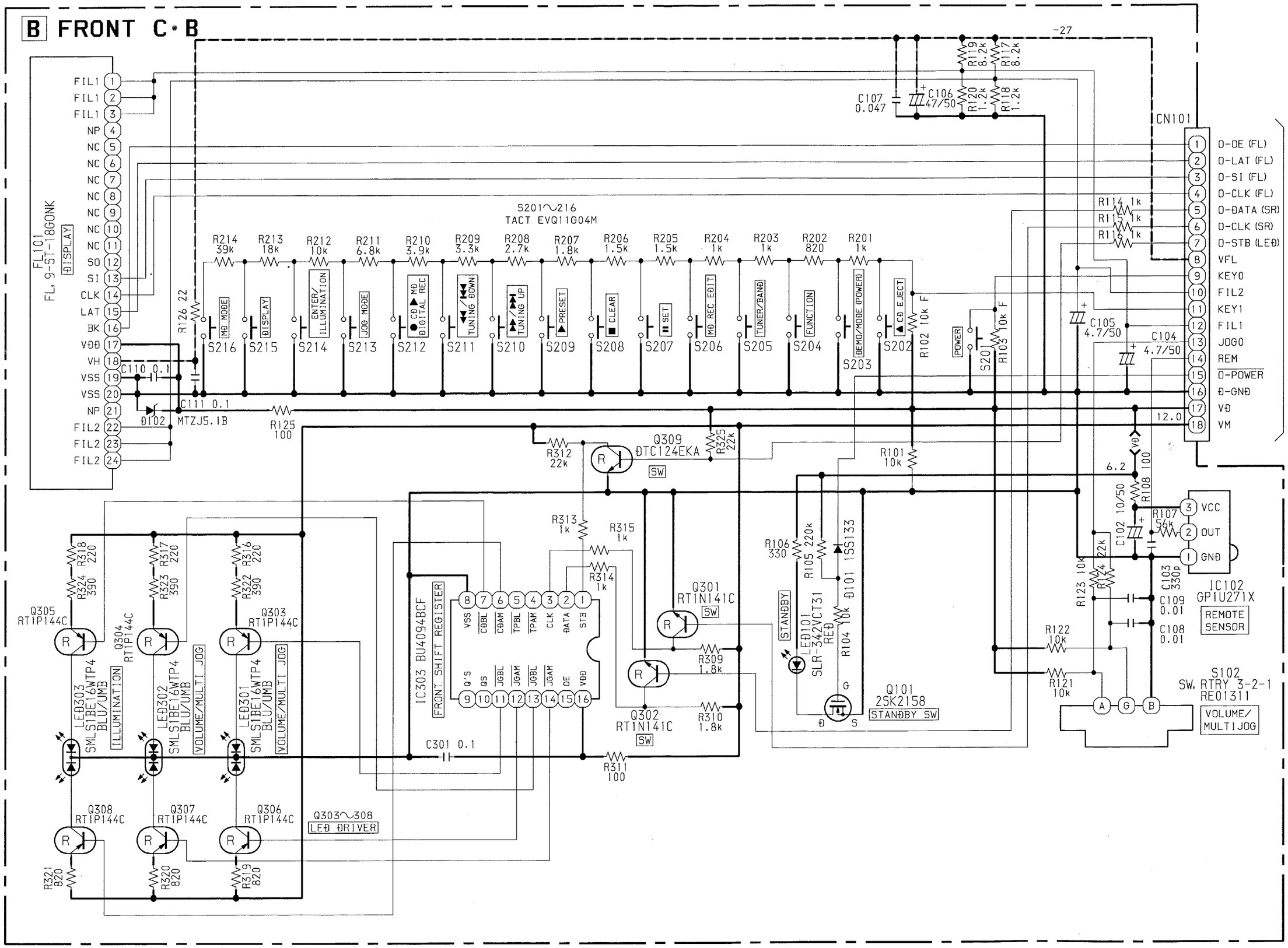


TRUTH TABLE

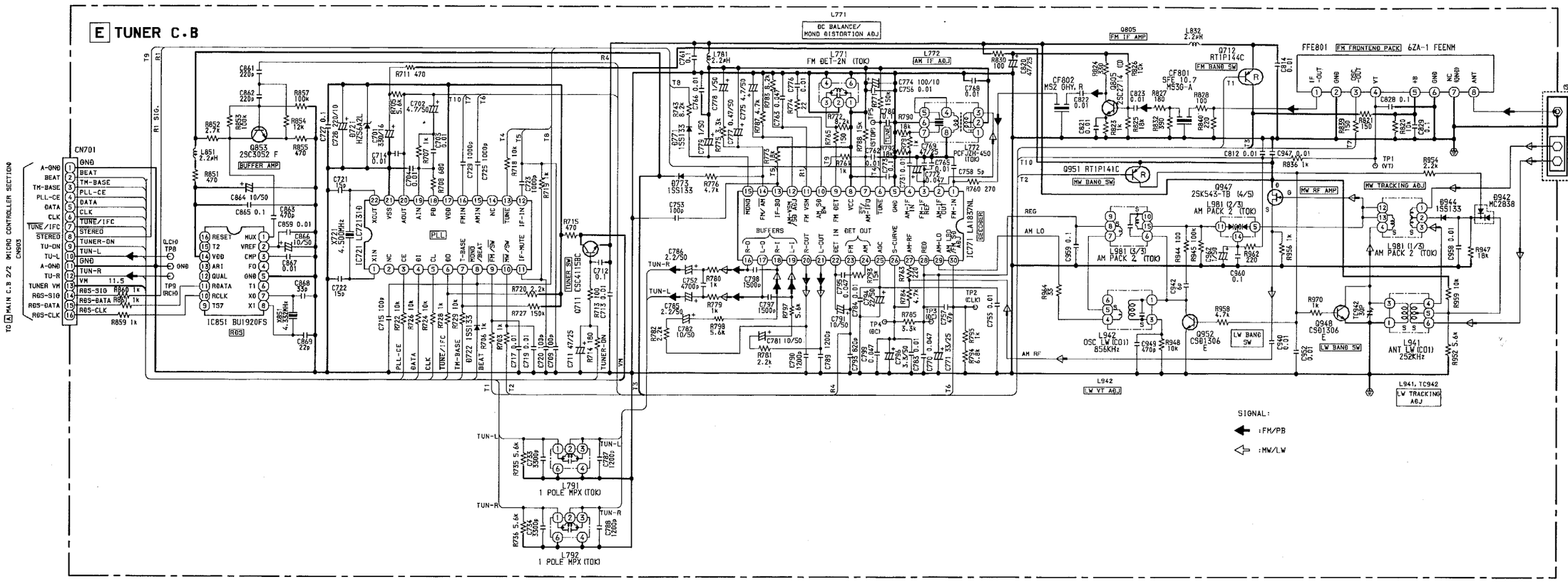
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	x	x	Z	Z	Q7	NO CHG.
↑	L	x	x	Z	Z	NO CHG.	QS
↓	H	L	x	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↓	H	H	H	H	Qn-1	Q7	NO CHG.
↑	H	x	x	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE
x = DON'T CARE

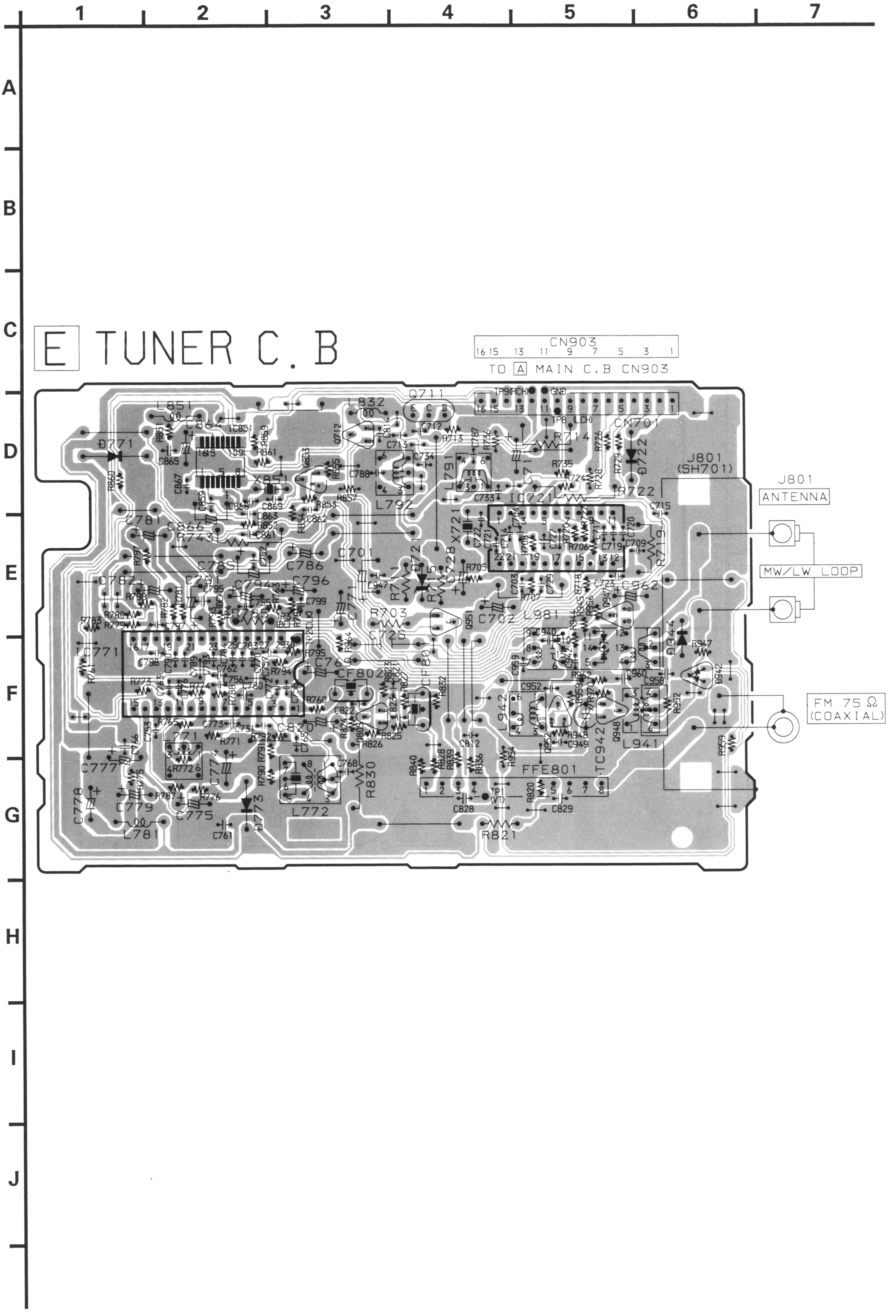

B FRONT C.B
LEÐ101
STANÐBY
S201
POWER
FL101
ÐISPLAY
S203
ÐEMO/MOÐE (POWER)
S204
FUNCTION
S205
TUNER/BANÐ
S206
MÐ REC/
EÐIT
IC102
REMOTE SENSOR
S213
JOG MOÐE
S202
CÐ EJECT
S209
PRESET
S208
CLEAR
S207
SET
S210
TUNING UP
S211
TUNING ÐOWN
S212
CÐ MÐ
ÐIGITAL REC
LEÐ303
S214
ENTER/ILLUMINATION
S215
ÐISPLAY
S216
MÐ MOÐE
S102, LEÐ301, 302
VOLUME/
MULTI JOG
FROM A MAIN C.B CN901
Ð HP
JACK C.B
J101
PHONES
CN102
REÐ
BLK
FROM A MAIN C.B CNA201


B FRONT C·B
FL101
FL, 9-ST-18GONK
DISPLAY
FIL1
FIL1
FIL1
NP
NC
NC
NC
NC
NC
NC
NC
SO
SI
CLK
LAT
BK
VDD
VH
VSS
VSS
NP
FIL2
FIL2
FIL2
S201~216
TACT EVQ11G04M
R214 39k
R213 18k
R212 10k
R211 6.8k
R210 3.9k
R209 3.3k
R208 2.7k
R207 1.8k
R206 1.5k
R205 1.5k
R204 1k
R203 1k
R202 820
R201 1k
R126 22
C110 0.1
C111 0.1
D102 MTZJ5.1B
R125 100
MD MODE
DISPLAY
ENTER/ ILLUMINATION
JOG MODE
CD ▲ MD DIGITAL REC
TUNING DOWN
TUNING UP
PRESET
CLEAR
SET
MD REC EDIT
TUNER/BAND
FUNCTION
DEMO/MODE (POWER)
CD EJECT
S216
S215
S214
S213
S212
S211
S210
S209
S208
S207
S206
S205
S204
S203
S202
R102 10k F
POWER
S201
R103 10k F
C107 0.047
C106 47/50
R119 8.2k
R120 1.2k
R118 1.2k
R117 8.2k
-27
CN101
O-OE (FL)
O-LAT (FL)
O-SI (FL)
O-CLK (FL)
O-DATA (SR)
O-CLK (SR)
O-STB (LED)
VFL
KEY0
FIL2
KEY1
FIL1
JOG0
REM
O-POWER
D-GND
VD
VM
FROM A MAIN C.B 2/2 (MICRO CONTROLLER SECTION) CN901
R114 1k
R115 1k
R116 1k
C105 4.7/50
C104 4.7/50
12.0
R312 22k
Q309 DTC124EKA
SW
R325 22k
R101 10k
6.2
VB
C102 10/50
R108 100
R107 56k
VCC
OUT
GND
IC102 GP1U271X
REMOTE SENSOR
R313 1k
R315 1k
R314 1k
R106 330
R105 220k
D101 1SS133
R104 10k
R123 10k
R124 22k
C103 330p
C109 0.01
C108 0.01
R122 10k
R121 10k
S102 SW, RTRY 3-2-1 RE01311
VOLUME/ MULTIJOG
Q301 RT1N141C
Q302 RT1N141C
R309 1.8k
R310 1.8k
R311 100
C301 0.1
IC303 BU4094BCF
FRONT SHIFT REGISTER
VSS CDBL CDAM TPBL TPAM CLK DATA STB
Q'S QS JGBL JGAM JGBL JGAM OE VDD
STANDBY
LED101 SLR-342VCT31 RED
Q101 2SK2158
STANDBY SW
Q305 RT1P144C
Q304 RT1P144C
Q303 RT1P144C
R318 220
R317 220
R316 220
R324 390
R323 390
R322 390
LED303 SML-S1BE16WTP4 BLU/UMB
LED302 SML-S1BE16WTP4 BLU/UMB
LED301 SML-S1BE16WTP4 BLU/UMB
ILLUMINATION
VOLUME/MULTI JOG
VOLUME/MULTI JOG
Q308 RT1P144C
Q307 RT1P144C
Q306 RT1P144C
Q303~308
LED DRIVER
R321 820
R320 820
R319 820

SCHEMATIC DIAGRAM – 4 (TUNER)

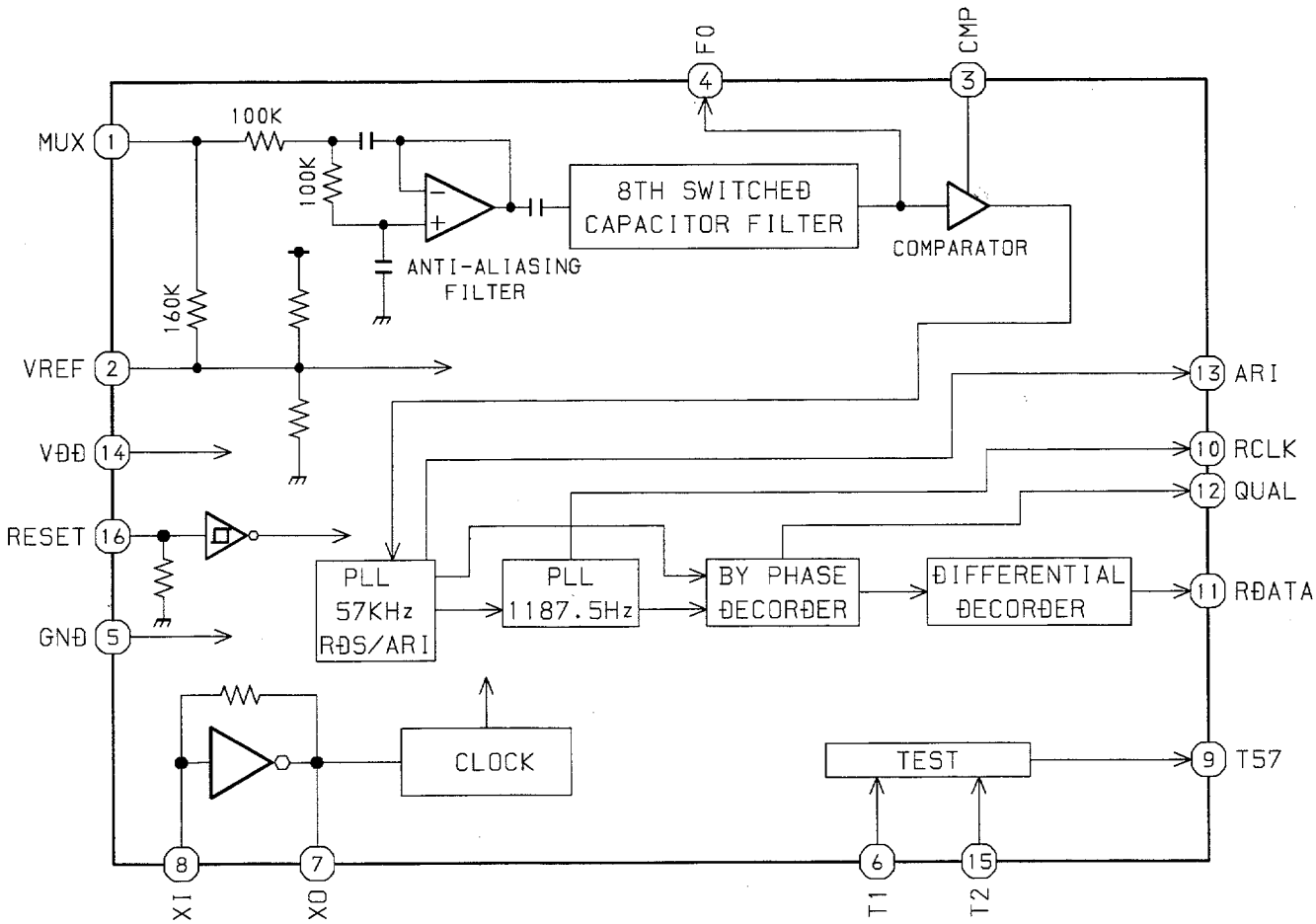


WIRING – 3 (TUNER)

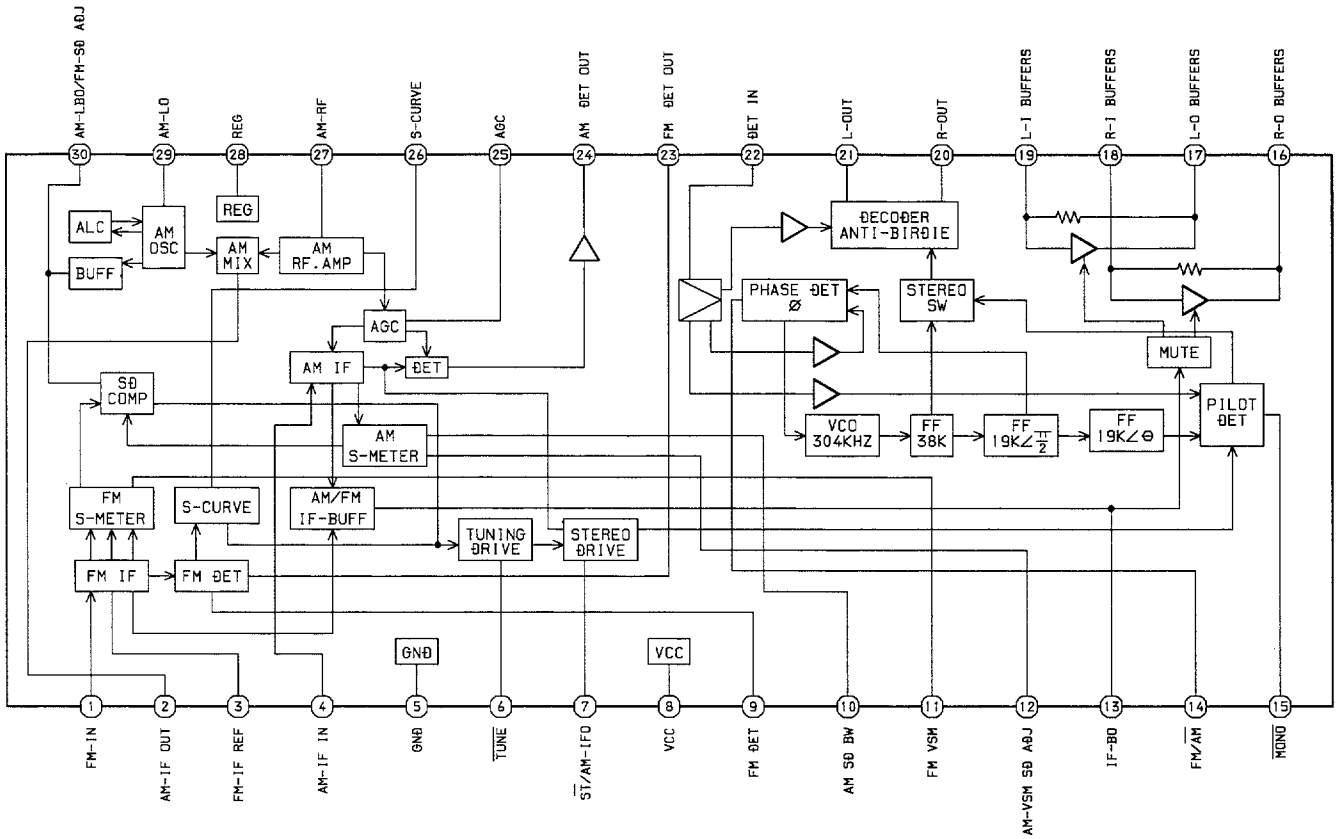


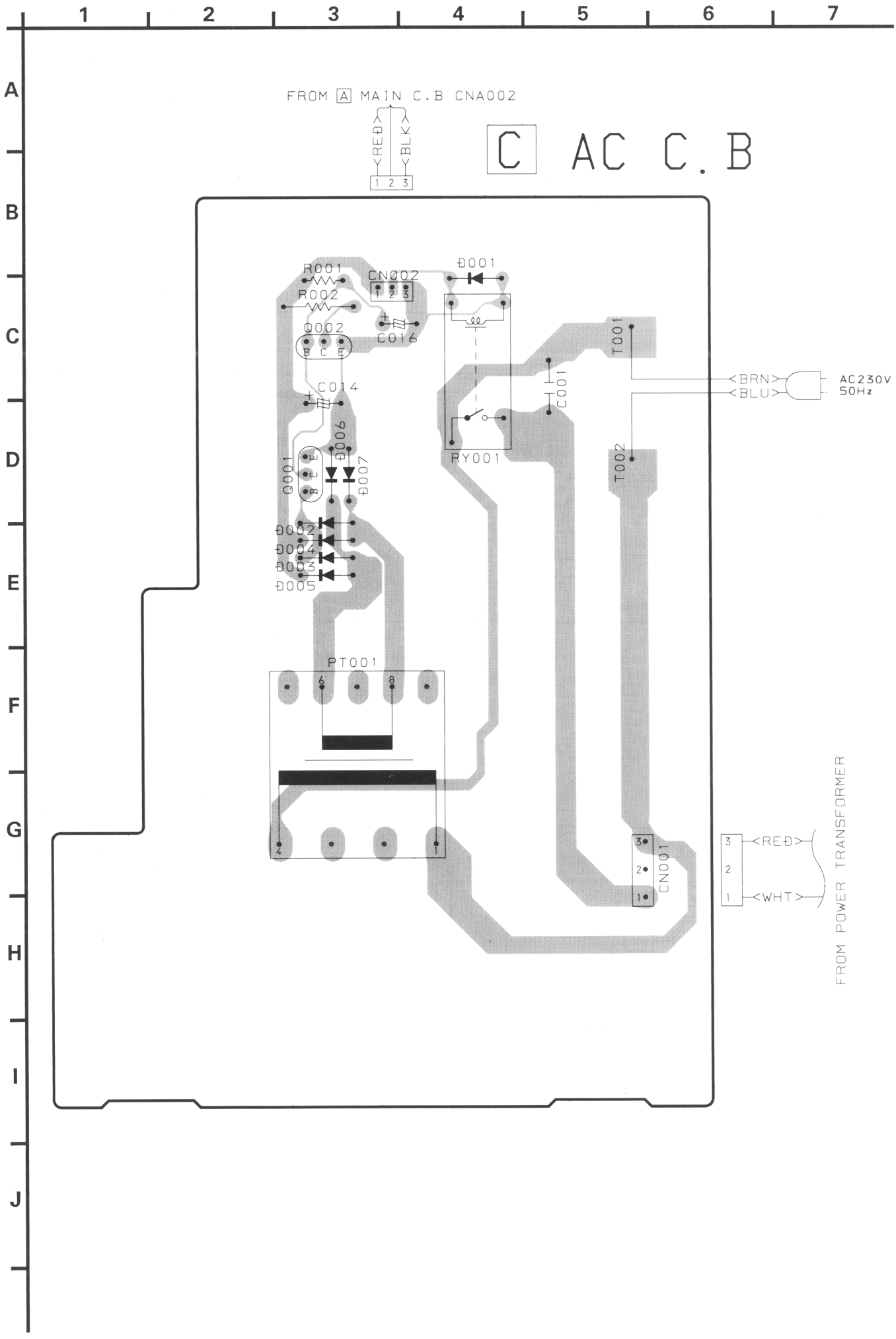
IC BLOCK DIAGRAM – 2

IC, BU1920FS

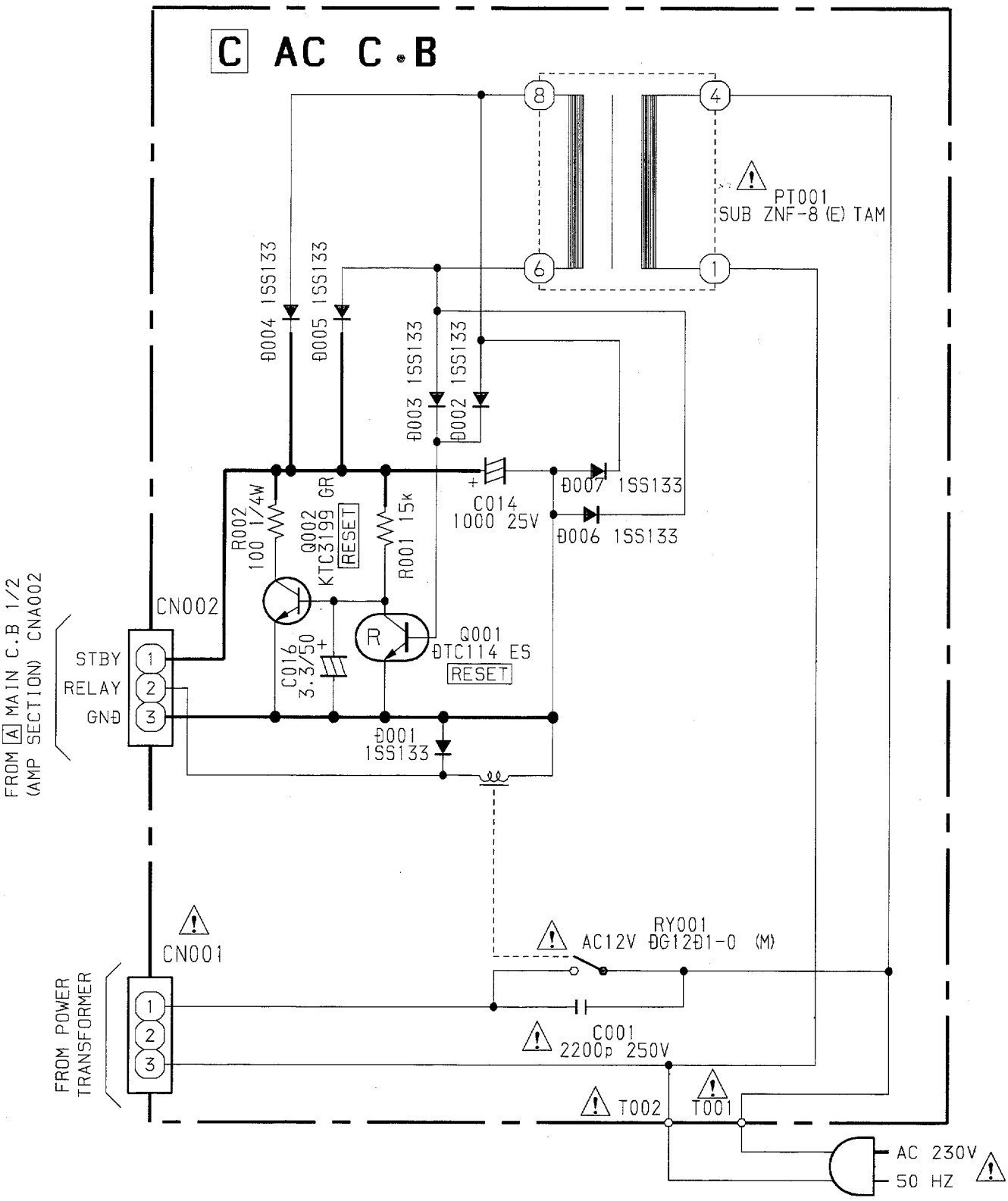


IC, LA1837NL




1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
FROM A MAIN C.B CNA002
RED
BLK
1 2 3
C AC C.B
R001
R002
CN002
1 2 3
Q002
B C E
C016
C014
Q001
B C E
D006
D007
D002
D004
D003
D005
PT001
6
8
4
D001
RY001
C001
T001
T002
BRN
BLU
AC230V
50Hz
3
2
1
RED
WHT
CN001
FROM POWER TRANSFORMER

SCHEMATIC DIAGRAM – 5 (AC)



IC DESCRIPTION

IC, LC876580W-5N98

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{I-STEREO (TU)}}$	I	Tuner stereo detection.
2	I-TUDO (TU)	I	Connect to tuner PLL IC, LC72131D Pin6 (DO).
3	I-RDS DATA (TU)	I	RDS data input.
4	O-ARDY (MD)	O	Serial data for MD unit control reception / transmission ready output.
5	O-STB (M)	O	Main shift register: latch output (Not used).
6	O-CLK	O	Front shift register BU4094BCF (reversal) and tuner PLL IC, LC72131D combination clock output.
7	O-DATA	O	Front shift register BU4094BCF (reversal) and tuner PLL IC, LC72131D combination data output.
8	O-VOLCTL	O	Connect to Function VOL IC, M62495FP pin13 (CONT).
9	I-TMBASE	I	Reference clock input. Connect to LC72131D Pin 7 (T-BASE).
10	$\overline{\text{O-CLK SHIFT}}$	O	Clock shift control output.
11	$\overline{\text{I-RESET}}$	I	MICON reset.
12	I-ACOFF	I	Hold status detection.
13	I-TU SIG / I-MS (TU / TP)	I	AD for RDS signal level input / Tape music sensor input (Not used).
14	VSS 1	-	GND.
15	CF 1	-	Connect to 9.43MHz crystal oscillation.
16	CF 2	-	Connect to 9.43MHz crystal oscillation.
17	VDD 1	-	MICON power supply (+5V).
18	I-LEVEL	I	Level meter input (AD).
19	I-KEY1	I	Key 1: AD input.
20	I-KEY0	I	Key 0: AD input.
21	I-MODE SW (TP)	I	Deck mechanical status detection input (AD).
22	O-STB (F)	O	Front shift register BU4094BCF's latch reversal output.
23	I-JOG1	I	AD input from multi jog rotary encoder output A/B.
24	O-BBEB	O	BBE control reversal output (B).
25	O-CE (TU)	O	Tuner PLL IC, LC72131D chip enable output.
26	O-BBEA	O	BBE control reversal output (A).
27	I-RDS CLK (TU)	I	RDS clock input.
28	O-LMUTE	O	Line mute output.
29	I-REM	I	Remote controller input.
30	NC	-	Not connected.
31	NC	-	Not connected.
32	NC	-	Not connected.
33	NC	-	Not connected.
34	NC	-	Not connected.
35	NC	-	Not connected.
36	NC	-	Not connected.
37	NC	-	Not connected.

Pin No.	Pin Name	I/O	Description
38	NC	-	Not connected.
39	NC	-	Not connected.
40	NC	-	Not connected.
41	NC	-	Not connected.
42	NC	-	Not connected.
43	NC	-	Not connected.
44	NC	-	Not connected.
45	NC	-	Not connected.
46	VDD3	-	MICON power supply (+5V).
47	I-CLS (MD)	I	MD unit close detection SW input / Close at L.
48	NC	-	Not connected.
49	NC	-	Not connected.
50	NC	-	Not connected.
51	VP	-	GND.
52	NC	-	Not connected.
53	NC	-	Not connected.
54	NC	-	Not connected.
55	NC	-	Not connected.
56	NC	-	Not connected.
57	NC	-	Not connected.
58	$\overline{\text{I-SWCLS (TP)}}$	I	Connect to GND through a resistor.
59	$\overline{\text{I-SWOPN (TP)}}$	I	Connect to GND through a resistor.
60	I-AUTO (TP)	I	Deck mechanical status detection input (AUTO). Connect to GND through a resistor.
61	I-CAM (TP)	I	Deck mechanical status detection input (CAM). Connect to GND through a resistor.
62	$\overline{\text{MD}}$ / TAPE	I	Initial matrix input (L: MD / H: TAPE). Connect to GND through a resistor.
63	RDS	I	Initial matrix input (H: RDS). Connect to VDD3 through a resistor.
64	$\overline{\text{BBE}}$	I	Initial matrix input (L: BBE). Connect to GND through a resistor.
65	$\overline{\text{DOLBY}}$	I	Initial matrix input (L: DOLBY). Connect to VDD3 through a resistor.
66	AM10K	I	Initial matrix input (H: 10K STEP / L: 9K STEP). Connect to GND through a resistor.
67	FM WIDE&AMST	I	Initial matrix input (H: FM WIDE & AM STEREO). Connect to GND through a resistor.
68	LW	I	Initial matrix input (H: LW). Connect to VDD3 through a resistor.
69	SW	I	Initial matrix input (H: SW). Connect to GND through a resistor.
70	OIRT	I	Initial matrix input (H: OIRT). Connect to GND through a resistor.
71	I-CDSRQ (CD)	I	CD data transmission request signal input.
72	VDD4	-	MICON power supply (+5V).
73	O-CDON (CD)	O	CD power supply control output.
74	O-D MS CD (CD)	O	Transmission output to CD MICON.
75	O-CS CD (CD)	O	Data transmission request output to CD MICON.
76	O-SCK (CD)	O	Data reception and transmission clock output to CD MICON.

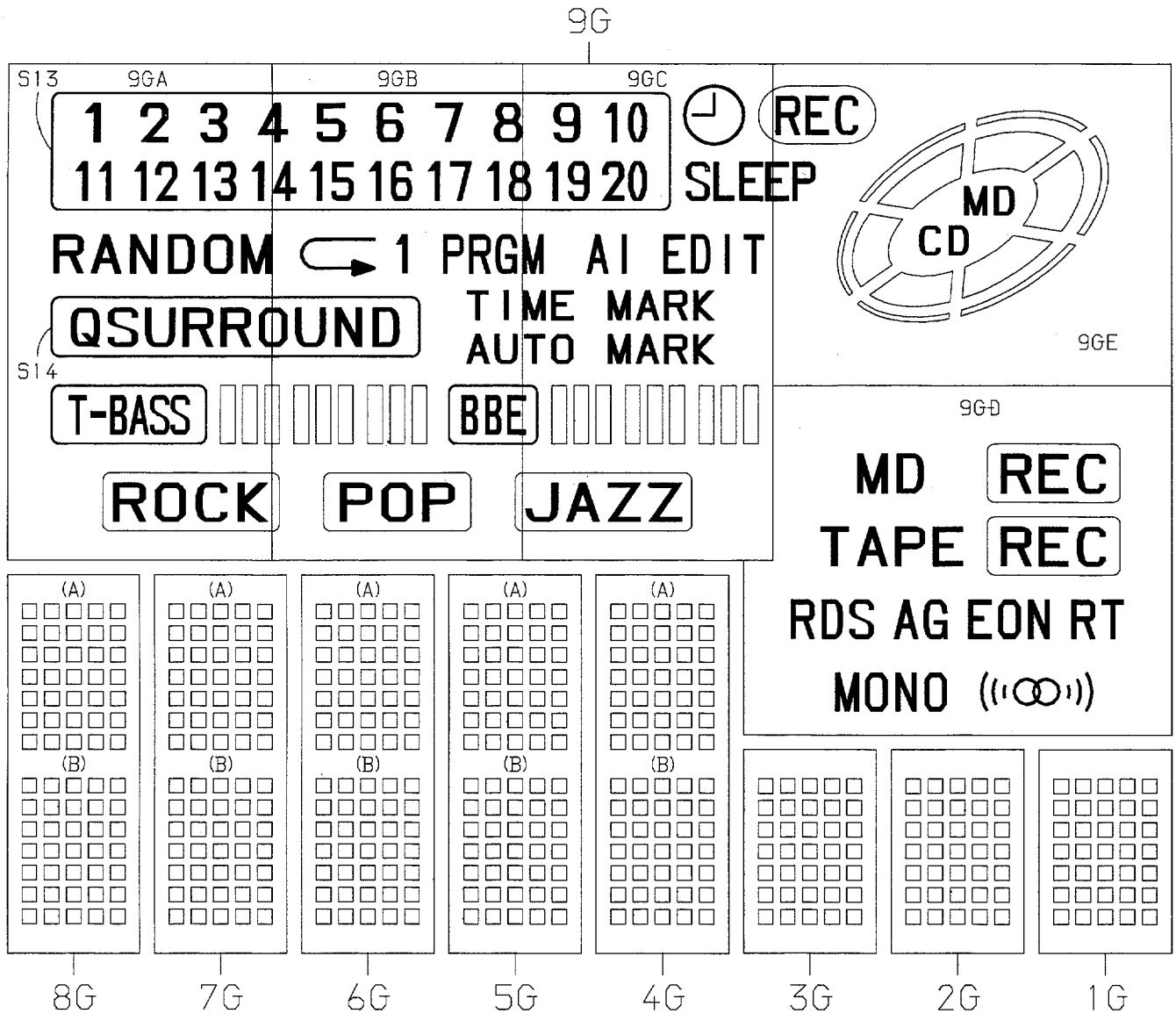
Pin No.	Pin Name	I/O	Description
77	O-SLP (CD)	O	Sleep output to CD MICON.
78	$\overline{\text{O-RST (CD)}}$	O	Reset output to CD MICON.
79	I-SWCD	I	CD disc detection switch / H active.
80	I-D CD MS (CD)	I	Transmission data from CD MICON.
81	O-QSURR	O	Q-surround IC control output.
82	O-TUON (TU)	O	Tuner power supply switch output.
83	O-MOTOR (TP)	O	Deck mechanical motor control output (Not used).
84	O-SWSCAN	O	Tuner test mode TP (Used for coil adjustment point).
85	O-SREQ (MD)	O	Serial data for MD unit control transmission request.
86	O-MD REC	O	Output H at MD REC.
87	O-P.ON	O	Power on output.
88	$\overline{\text{O-RST (MD)}}$	O	MD unit reset signal output.
89	VSS2	-	GND.
90	VDD2	-	MICON power supply (+5V).
91	O-OE (FL)	O	Output function output to FL driver.
92	O-LAT (FL)	O	Latch output to FL driver.
93	O-MUTE	O	Main mute output.
94	$\overline{\text{O-PL (TP)}}$	O	Deck mechanical plunger control output (Not used).
95	O-SI (FL)	O	Serial data output to FL driver.
96	O-MrEQ (MD)	O	Serial data for MD unit control transmission request.
97	O-CLK (FL)	O	Clock output to FL driver.
98	O-SIN (MD)	O	Serial data for MD unit control output.
99	I-SOUL (MD)	I	Serial data for MD unit control input.
100	I-ACLK (MD)	I	Serial data for MD unit control input.

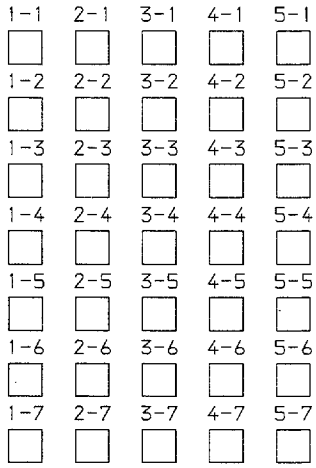
IC, LC72131D

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (4.5MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU when relevant key is operated.
Active "H".</td></tr>
<tr><td>5</td><td>CL</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU.</td></tr>
<tr><td>7</td><td>T-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / $\overline{\text{SW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$/SW</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IF-IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>15</td><td>AM IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM IN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

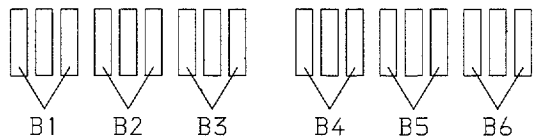
FL (9-ST-18GONK) GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

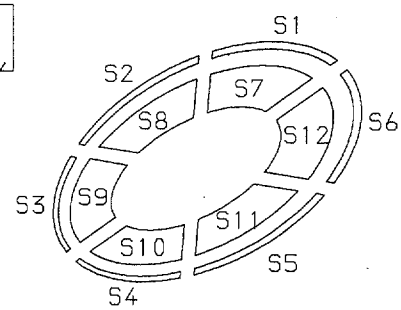




(8G~1G)



(9G)



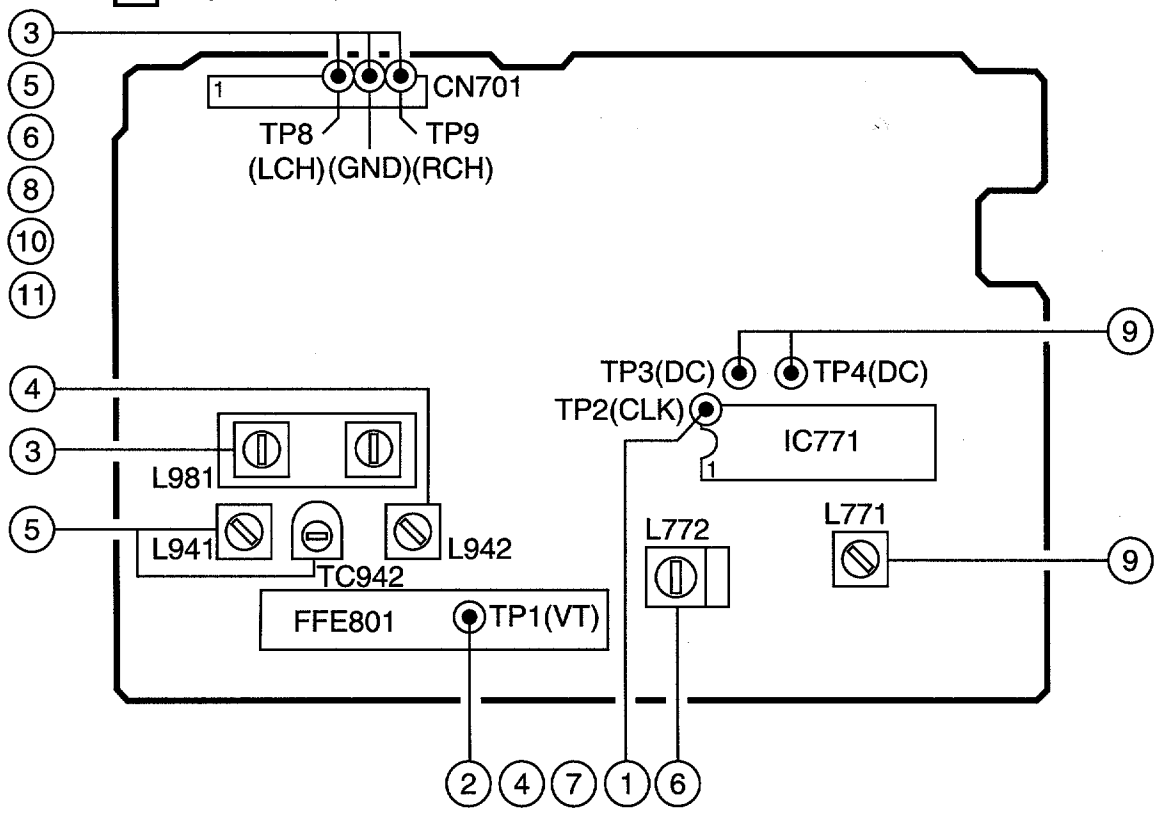
9-ST-18GONK
GRIĐ ASSIGNMENT

ANODE CONNECTION

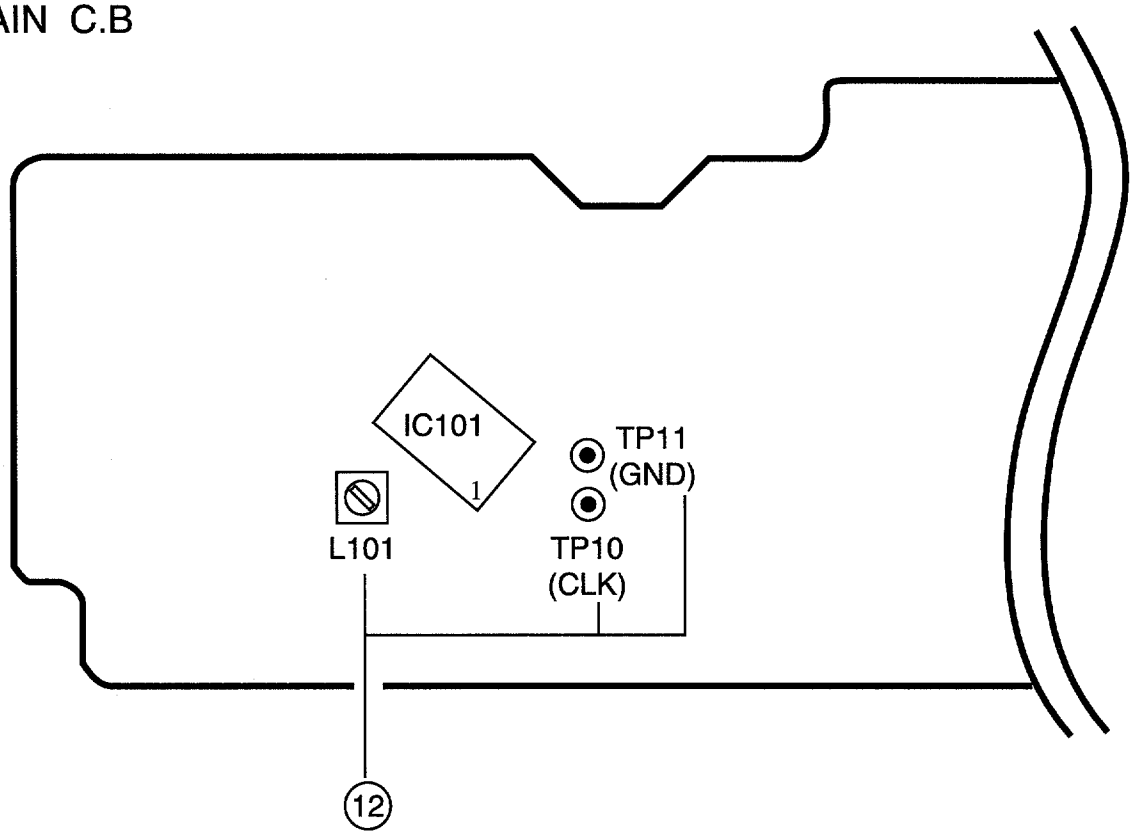
	1G	2G	3G	4G	5G	6G	7G	8G	9G (A~E)
P1	–	–	–	1-1A	1-1A	1-1A	1-1A	1-1A	ROCK
P2	–	–	–	2-1A	2-1A	2-1A	2-1A	2-1A	POP
P3	–	–	–	3-1A	3-1A	3-1A	3-1A	3-1A	JAZZ
P4	–	–	–	4-1A	4-1A	4-1A	4-1A	4-1A	1
P5	–	–	–	5-1A	5-1A	5-1A	5-1A	5-1A	11
P6	–	–	–	1-2A	1-2A	1-2A	1-2A	1-2A	2
P7	–	–	–	2-2A	2-2A	2-2A	2-2A	2-2A	12
P8	–	–	–	3-2A	3-2A	3-2A	3-2A	3-2A	3
P9	–	–	–	4-2A	4-2A	4-2A	4-2A	4-2A	13
P10	–	–	–	5-2A	5-2A	5-2A	5-2A	5-2A	4
P11	–	–	–	1-3A	1-3A	1-3A	1-3A	1-3A	14
P12	–	–	–	2-3A	2-3A	2-3A	2-3A	2-3A	5
P13	–	–	–	3-3A	3-3A	3-3A	3-3A	3-3A	15
P14	–	–	–	4-3A	4-3A	4-3A	4-3A	4-3A	S13
P15	–	–	–	5-3A	5-3A	5-3A	5-3A	5-3A	6
P16	–	–	–	1-4A	1-4A	1-4A	1-4A	1-4A	16
P17	–	–	–	2-4A	2-4A	2-4A	2-4A	2-4A	7
P18	–	–	–	3-4A	3-4A	3-4A	3-4A	3-4A	17
P19	–	–	–	4-4A	4-4A	4-4A	4-4A	4-4A	8
P20	–	–	–	5-4A	5-4A	5-4A	5-4A	5-4A	18
P21	–	–	–	1-5A	1-5A	1-5A	1-5A	1-5A	9
P22	–	–	–	2-5A	2-5A	2-5A	2-5A	2-5A	19
P23	–	–	–	3-5A	3-5A	3-5A	3-5A	3-5A	10
P24	–	–	–	4-5A	4-5A	4-5A	4-5A	4-5A	20
P25	–	–	–	5-5A	5-5A	5-5A	5-5A	5-5A	RANDOM
P26	–	–	–	1-6A	1-6A	1-6A	1-6A	1-6A	↻
P27	–	–	–	2-6A	2-6A	2-6A	2-6A	2-6A	1
P28	–	–	–	3-6A	3-6A	3-6A	3-6A	3-6A	PRGM
P29	–	–	–	4-6A	4-6A	4-6A	4-6A	4-6A	T-BASS
P30	–	–	–	5-6A	5-6A	5-6A	5-6A	5-6A	B1
P31	–	–	–	1-7A	1-7A	1-7A	1-7A	1-7A	B2
P32	–	–	–	2-7A	2-7A	2-7A	2-7A	2-7A	B3
P33	–	–	–	3-7A	3-7A	3-7A	3-7A	3-7A	BBE
P34	–	–	–	4-7A	4-7A	4-7A	4-7A	4-7A	B4
P35	–	–	–	5-7A	5-7A	5-7A	5-7A	5-7A	B5

	1G	2G	3G	4G	5G	6G	7G	8G	9G (A~E)
P36	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	B6
P37	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	S14
P38	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	**QSURROUND**
P39	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	**AI**
P40	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	**EDIT**
P41	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	**TIME MARK**
P42	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	**AUTO MARK**
P43	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	**MONO**
P44	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	((∞))
P45	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	**RDS**
P46	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	**AG**
P47	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	**EON**
P48	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	**RT**
P49	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	◴
P50	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	**SLEEP**
P51	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	(REC)
P52	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	**TAPE** [REC]
P53	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	**MD** [REC]
P54	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	S1
P55	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	S7
P56	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	S2
P57	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	S8
P58	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	S3
P59	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	S9
P60	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	S4
P61	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	S10
P62	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	S5
P63	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	S11
P64	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	S6
P65	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	S12
P66	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	**CD**
P67	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	**MD**
P68	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	-
P69	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	-
P70	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	-

E TUNER C.B



A MAIN C.B



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L981 (1/3)
   Method : Set to MW 999kHz and adjust L981 (1/3) so that the test point becomes maximum.

4. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.
   Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

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

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

8. 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 13dBμV.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3,TP4 (DC balance)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

10. Output Level Check
    <MW>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 74dBμV
    Method : Set to MW 999kHz and check that the test point is 130mV ± 3dB.

    <FM>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is 520mV ± 3dB.

11. FM Separation Check
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is more than 12dB.

< MAIN SECTION >

12. μ-CON OSC Adjustment
    Settings : • Test point : TP10 (CLK), TP11 (GND)
    • Adjustment location : L101
    Method : Insert AC plug while pressing TUNER function key. Adjust L101 so that the frequency at the test point is 97.258Hz ± 0.098Hz.

CD TEST MODE

1. How to activate CD Test Mode
   Insert the AC plug while pressing the "Enter" button. FL display is fully illuminated and test mode will be activated. Insert the test disc and operate the test mode following the control method as shown below.
   Note: If no CD was inserted, it displays "No Disc" and cannot be operated.

2. How to cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Disconnect the AC plug.
   - Press "Function" button.
   - Press "Power" button.
   - Press "Band" button.

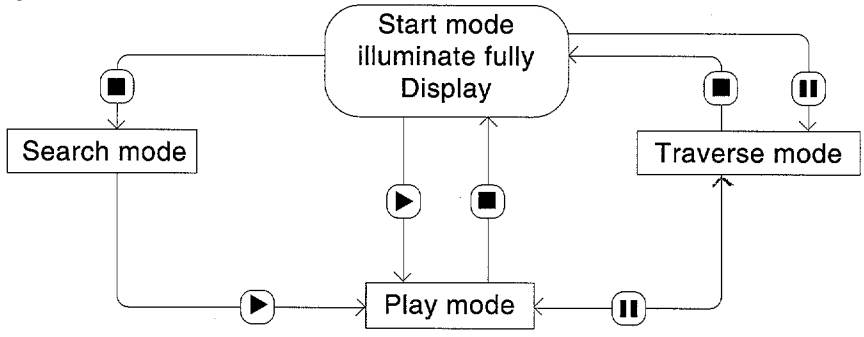
3. CD Test Mode functions
   When test mode is activated, the following mode functions can be used by pressing the operation keys.

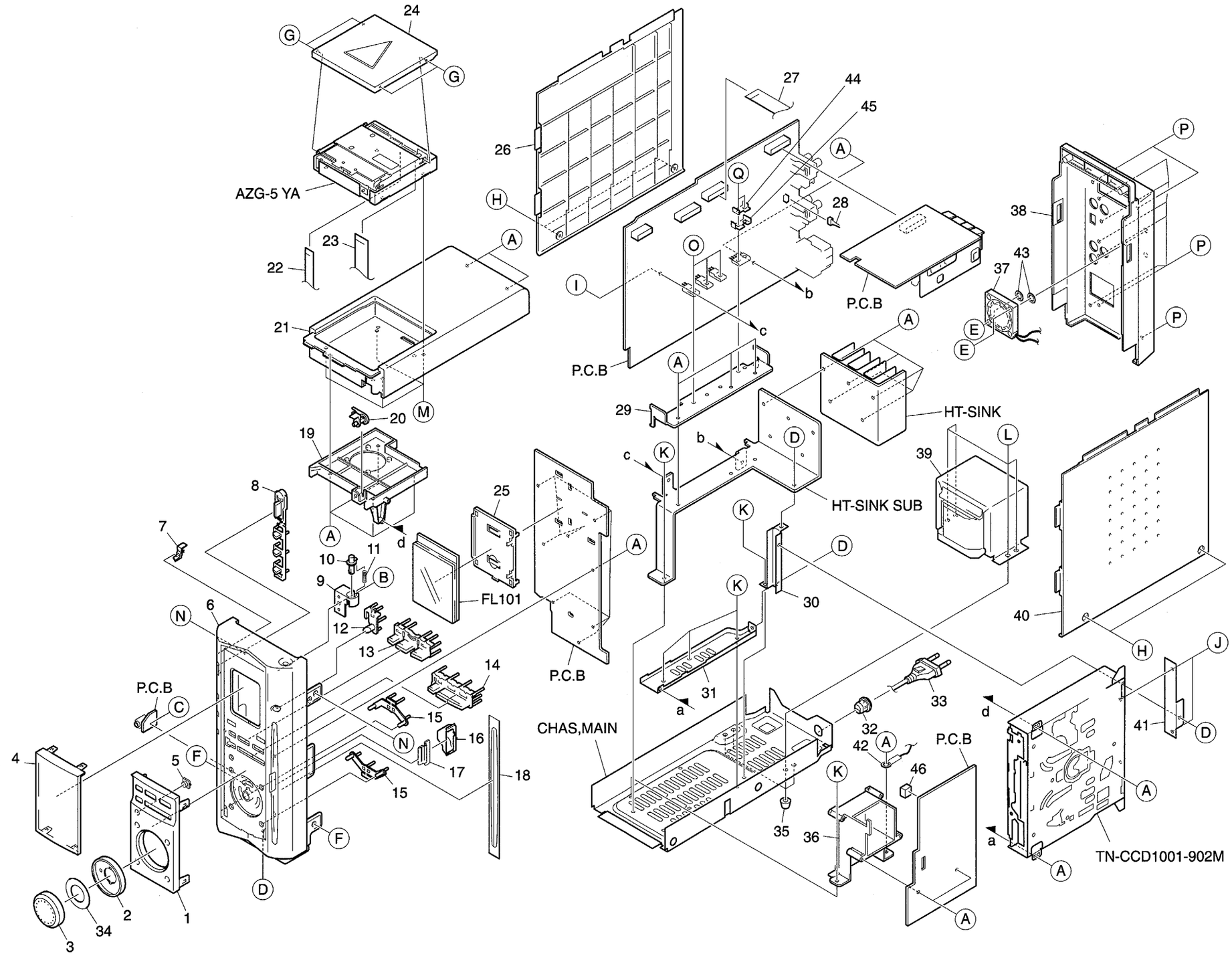
Mode	Function Button	FL Display	Operation	Content
Start Mode		Fully illuminate	• Initialization	
Sled Mode	⏮ ⏭	CD TEST	• Shift to the external circumference of Pick-Up. * Note 1 • Shift to the internal circumference of Pick-Up. (Normal operation during CD PLAY)	• SLED SERVO • SLED Operation Check
Search Mode	■	CD	• LASER DIODE illuminated all the time (CD block power ON) • Continuous Focus Search *Note 2 (Pickup lense repeat full swing)	• APC circuit check • Laser current measurement • Focus search waveform check • Focus error waveform check (In Search Mode, FOK/FZC is not checked)
Play Mode	▶	1Tr.0:01	• Normal Playback • When TOC READ is unavailable Continue focus search *Note 2 • Continue spindle motor kick spin	• FOCUS SERVO/TRACKING SERVO • CLV SERVO/SLED SERVO • FOK check • RF waveform check
Traverse Mode	⏸	1Tr.0:01	• Tracking servo OFF/ON • Repeat OFF/ON every time [⏸] button is pressed	• TRACKING SERVO OFF • Tracking Balance Check

* Note 1 : When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at outermost or innermost track. The sled operation is not as normal and moves outermost track with ⏮ button and innermost track with ⏭ button

* Note 2 : There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these case, the power supply should be switched off for an hour until heat has been reduced and then re-start.

4. The Operation Outline
   This operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration




24
G
G
AZG-5 YA
22
23
A
21
M
20
19
8
7
A
d
11
10
B
9
12
13
FL101
25
26
H
27
44
45
A
Q
28
O
I
b
c
P.C.B
A
29
P.C.B
38
P
P
P
37
43
E
E
A
HT-SINK
b
D
c
K
HT-SINK SUB
39
L
K
D
30
K
40
H
J
41
D
A
d
a
31
33
32
42
A
46
P.C.B
CHAS,MAIN
K
35
36
A
a
A
TN-CCD1001-902M
N
6
P.C.B
C
F
5
4
3
34
2
1
D
F
N
15
16
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14

MECHANICAL PARTS LIST 1 / 1

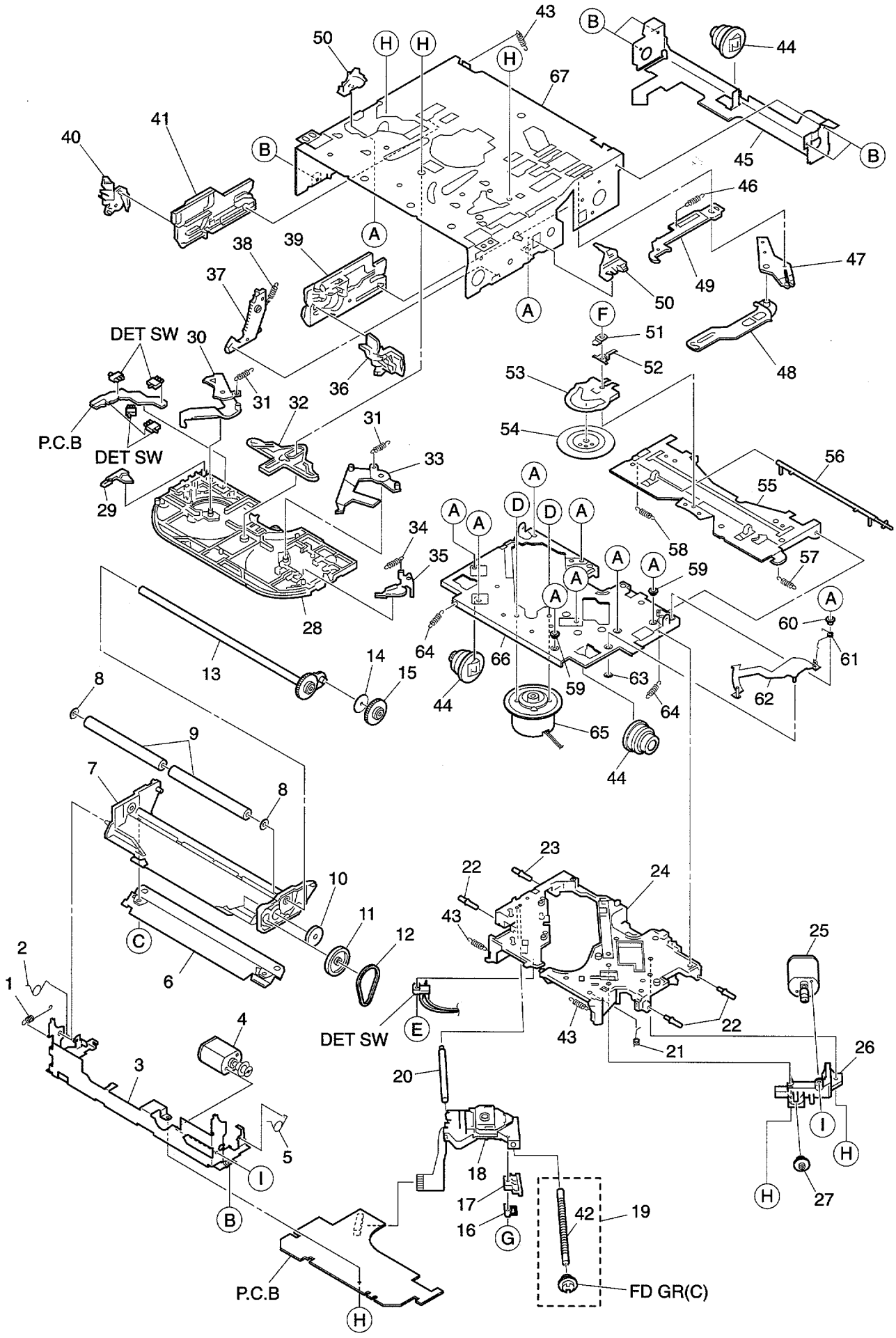
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJ5-008-010		PANEL,FR CD
2	8A-CJ5-017-010		REFLECTOR,JOG
3	8A-CJ5-016-010		KNOB,RTRY JOG
4	8A-CJ5-033-010		WINDOW,DISPLAY EZ
5	8A-CJ5-019-010		LENS,SENSOR
6	8A-CJ5-024-010		CABI,FR EZ
7	8A-CJ5-015-010		REFLECTOR,POWER
8	8A-CJ5-009-010		KEY,POWER
9	8A-CJ5-203-010		HLDR,BTN
10	8A-CJ5-014-010		BTN,OPEN
11	8A-CJ5-208-010		SPR-C,OPEN
12	8A-CJ5-013-010		KEY,EJECT CD
13	8A-CJ5-011-010		KEY,PLAY
14	8A-CJ5-010-010		KEY,SKIP
15	8A-CJ5-012-010		KEY,ENTER
16	8A-CJ5-215-010		GUIDE,LED CD
17	8A-CJ5-018-010		REFLECTOR,CD
18	8A-CJ5-023-010		DUST COVER, CD FELT
19	8A-CJ5-202-010		HLDR,TOP
20	8A-CJ5-207-010		LEVER,OPEN
21	8A-CJ5-002-010		CABI,TOP
22	8A-CJ5-632-010		CABLE,FFC9P-1.0-20
23	8A-CJ5-633-010		CABLE,FFC14P-1.0-10
24	8A-CJ5-006-010		LID,MD
25	8A-CJ5-209-010		GUIDE,FL
26	8A-CJ5-004-010		PANEL,SIDE L
27	8A-CJ5-630-010		CABLE,FFC15P-1.0-20
28	8A-CJ5-634-010		CONN ASSY,2P SHLD
29	8A-CJ5-214-010		HLDR,TR
30	8A-CJ5-206-010		HLDR,CD B
31	8A-CJ5-205-010		HLDR,CD A
32	87-085-185-010		BUSHING, AC CORD (E)
⚠ 33	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI
34	8A-CJ5-217-010		PLATE,JOG
35	8Z-NB8-240-010		COVER, PL
36	8A-CJ5-204-010		HLDR,ECO
37	8Z-CL1-663-010		FAN,MF40D-12-200MM
38	8A-CJ5-026-010		CABI,REAR EZ
⚠ 39	8A-CJ5-622-010		PT,ACJ-5 EZ
40	8A-CJ5-005-010		PANEL,SIDE R
41	8A-CJ5-213-010		HLDR,MECHA CD
42	87-064-185-010		HLDR,WIRE
43	87-ZG9-207-010		SH,S-SCREW
44	8A-CJ5-221-010		HT-SINK,IC A
45	8A-CJ5-222-010		HT-SINK,IC B
46	8A-CJ5-228-010		CUSH-R,13-13-10
A	87-067-579-010		TAPPING SCREW, BVT2+3-8
B	87-B10-294-010		BVT2+2.6-8
C	88-AR1-217-010		S-SCREW,BFT2+3-8
D	87-067-688-010		BVTT+3-6
E	87-751-096-410		VT2+3-10 GLD
F	87-591-094-010		QIT+3-6 GOLD
G	87-078-153-010		SCRW,1.4-2.5 CR
H	87-067-641-010		UTT2+3-8(W/O SLOT)BL
I	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
J	87-067-421-010		VTT+2-4
K	87-067-584-010		BVT2+3-6 W/O SLOT
L	87-078-191-010		S-SCREW,IT+4-10
M	87-067-684-010		BVT2+2.6-6 W/O SLOT
N	87-721-096-410		QT2+3-10 GLD
O	87-067-703-010		TAPPING SCREW, BVT2+3-10
P	87-067-660-010		TAPPING SCREW, BVT2+3-8
Q	87-067-581-010		BVT2+3-15 W/O SLOT

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				

CD MECHNISM EXPLODED VIEW 1 / 1

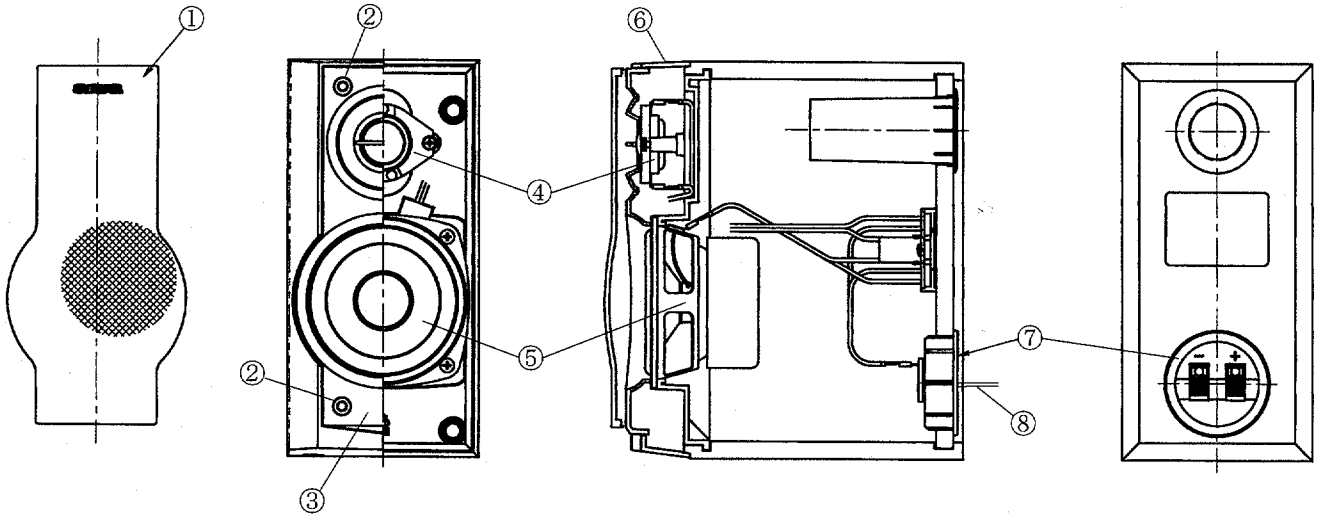


CD MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S3-031-110-030		EARTH SPR
2	S3-031-110-180		L.P SPRING(L)
3	S3-031-110-010		FRONT BRKT
4	S3-031-113-010		LDG MOTOR ASSY
5	S3-031-110-190		L.P SPRING(R)
6	S3-031-110-050		SUPPORT PL
7	S3-031-110-080		GR MT BLK
8	S9-W03-302-760		NW BLUE 2.9-5-0.3
9	S3-031-110-360		LDG ROLLER(P)
10	S3-031-110-100		LDG GR(3)
11	S3-031-110-090		LDG GR(2)
12	S3-031-110-290		LDG BELT
13	S3-031-113-020		LDG RLR SFT ASSY
14	S9-W07-250-300		LUMIL AR W 2.3-9.8-0.25
15	S3-031-110-120		LDG GR(5)
16	S3-031-050-300		NUT PUSH SPR PL(M)
17	S3-031-050-290		PU M NUI(M)
18	S6-904-160-010		PICK-UP VED0375-TN
19	S3-031-053-040		FEED SCREW(M)ASSY
20	S3-031-050-320		PU SHAFT(M)
21	S3-031-050-330		THRUST SPR(M)
22	S3-031-050-210		LOCK PIN
23	S3-031-050-220		LOCK PIN BL
24	S3-031-050-760		F.M. BASE(A)
25	S3-031-053-010		FEED MOTOR ASSY
26	S3-031-050-280		FD GR BLK(M)
27	S3-030-050-100		PU GEAR(B)
28	S3-031-010-570		UPPER PL(A)
29	S3-031-110-240		SW ACTR
30	S3-031-010-090		SEL ARM (L)
31	S3-031-010-110		S ARM SPRING
32	S3-031-010-080		SEL STOP PL
33	S3-031-010-100		SEL ARM (R)
34	S3-031-010-250		S.L ARM SPRING
35	S3-031-010-240		S.L ARM
36	S3-031-010-580		FIX ARM(R)A
37	S3-031-010-380		LDG GR(6)B
38	S3-031-010-220		LDG GR(6)SPRING
39	S3-031-010-370		FIX PL(R)B
40	S3-031-010-340		FIX ARM(L)B
41	S3-031-010-500		FIX PL(L)Z
42	S3-031-050-310		FD SCREW(M)
43	S3-031-010-520		HUNG UP SPRING(A)
44	S3-031-050-240		DAMPER(J)
45	S3-031-010-020		REAR D BRKT
46	S3-031-010-150		TRIG PL SPRING
47	S3-031-010-160		TRIG ARM
48	S3-031-010-120		TRIG LVR
49	S3-031-010-140		TRIG PL
50	S3-031-010-030		DAMPER PIN
51	S3-031-050-360		STOPPER SPR
52	S3-031-050-190		8CM STOPPER SPR PL
53	S3-031-050-230		CLAMPER PLATE
54	S3-031-050-150		CLAMPER
55	S3-031-050-740		CLP ARM(A)
56	S3-031-050-410		8CM STOPPER(M)
57	S3-031-050-140		CLP ARM SPRING
58	S3-031-050-250		CLP ARM SPR(L)
59	S3-031-050-700		D.S ARM COLLAR
60	S3-031-050-720		SP COLLAR
61	S3-031-050-710		D.S ARM SPR
62	S3-031-055-010		DISC SUPPORT ARM ASSY
63	S9-W02-500-900		PW CUT 2.1-4-0.5
64	S3-031-010-530		HUNG DOWN SPRING(A)
65	S3-031-053-050		SPINDLE MOTOR(M)ASSY
66	S3-031-050-730		T.T.BASE(A)
67	S3-031-010-010		FRAME
A	87-841-034-410		CAMERA B TAPPING SCREW M2-5
B	87-741-033-410		CAMERA SCREW TS.G M2-4
C	S9-C04-205-030		CAMERA S TAPPING SCREW M2-5
D	87-267-525-310		CAMERA SCREW M1.7-2.2
E	87-263-036-010		CAMERA TAPPING SCREW B 3 M2-8
F	S9-C42-202-010		CAMERA TAPPING SCREW S 3 M2-2
G	S9-C45-175-030		CAMERA TAPPING SCREW P3 M1.7-5
H	87-351-549-310		CAMERA TAPPING SCREW B 3 M2-4
I	S9-P02-200-310		TAMS SCREW M2-3

SPEAKER PARTS LAYOUT 1 / 1



SPEAKER 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	8A-CJ5-422-010		GRILLE,FRAME ASSY Y
2	8A-CJ5-409-010		FASTENER,
3	8A-CJ5-405-010		PANEL,SP
4	8A-CJ5-417-010		SPKR, TW 25
5	8A-CJ5-411-010		SPKR, W 87S
6	8A-CJ5-403-010		PANEL,FR
7	8A-CJ5-415-010		TERMINAL,
8	8Z-CL5-543-010		CORD,SP

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJ5-906-010		IB,EZ(9L)M
2	8A-CJ5-955-010		RC UNIT,RC-AAT10
3	87-006-225-010		ANT,LOOP ANT NC2
4	87-A90-118-010		ANT,WIRE FM(Z)

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