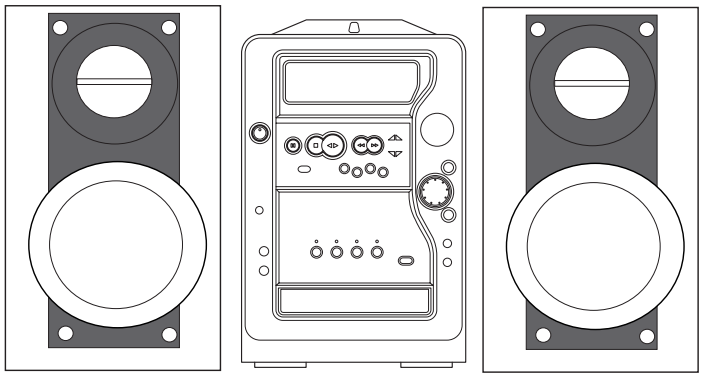
aiwa SERVICE

XR-MR5 U



SERVICE MANUAL

CD-R/CD STEREO SYSTEM

BASIC CD MECHANISM : DA11B3
BASIC CD-R/RW MECHANISM : CRD-RA1W02(A)

SYSTEM	SPEAKERS	REMOTE CONTROLLER
XR–MR5	SX–M510	RC–AAT16

• This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-006-435-4T1).

aiwa

S/M Code No. 09-009-435-4R1

REVISION DATA

SPECIFICATIONS

Main unit

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminal	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	400 μV/m
Antenna	Loop antenna

<Amplifier section>

Power output	25 W + 25 W (100 Hz to 10 kHz, THD less than 1%, 6 ohms) 30 W + 30 W (1 kHz, THD 10%, 6 ohms)
Inputs	AUX/VIDEO IN: 310 mV DIGITAL IN
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack): accept headphones of 32 ohms or more SUPER WOOFER: 1.2 V

<Compact disc player section (CD player)>

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

<Compact disc player section (CD-R/RW player/recorder)>

Laser	Semiconductor laser (λ =785 ± 5 nm)
Recording method	Track at once
Sampling frequency	44.1 kHz
Harmonic distortion	Play: 0.05 % or less (1 kHz, 0 dB) Digital record: 0.05 % or less (1 kHz, 0 dB)

<General>

Power requirements	120 V AC, 60 Hz
Power consumption	90 W
Standby power consumption	1.5 W (power-economizing mode set to ON or AUTO)
Dimensions of main unit (W x H x D)	177.6 x 265.0 x 333.0 mm (7 x $10^{1}/_{2}$ x 13 in.)
Weight of main unit	6.0 kg (13 lbs 4 oz.)

Speaker system

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 130 mm Tweeter: 22 mm dome type
Impedance	6 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W x H x D)	155 x 254 x 210 mm ($6^{1}/_{8}$ x 10 x $8^{3}/_{8}$ in.)
Weight	2.6 kg (5 lbs 12 oz.)

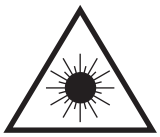
• Design and specifications are subject to change without notice.

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

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 saataa 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 herin may result in hazardous radiation exposure.

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

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

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

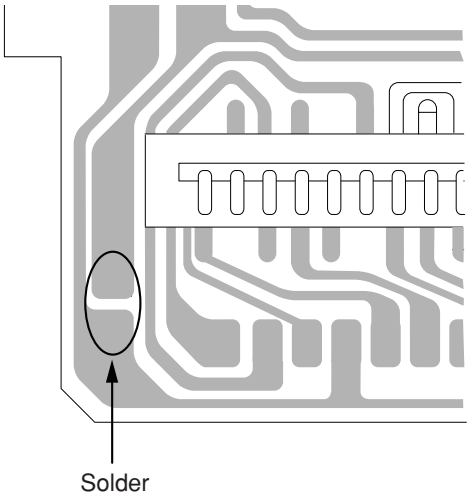
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block **(SF-P101NR)**

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.

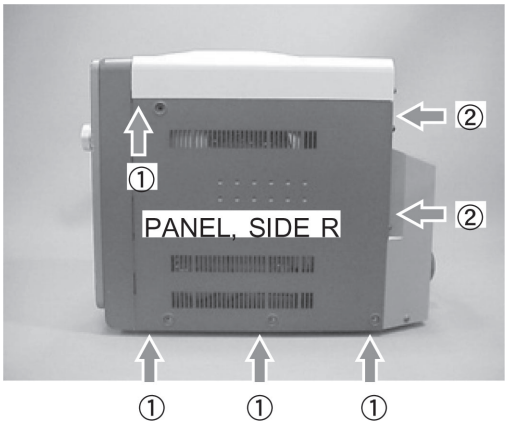
1) After the connection, remove solder shown in the right figure.

CD PICK-UP ASSY. PWB

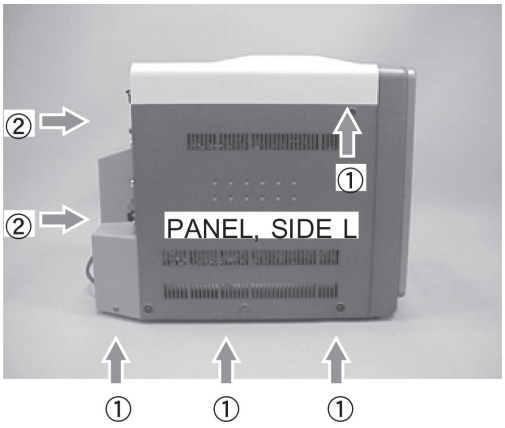


DISASSEMBLY INSTRUCTIONS

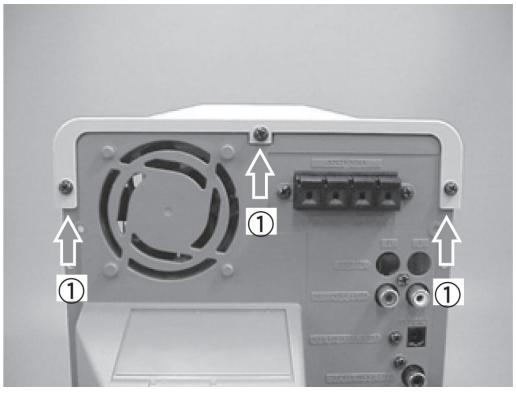
1. Removing the ornamental parts
   1) Remove the six screws (four (1)s, two (2)s) and remove the PANEL, SIDE R.

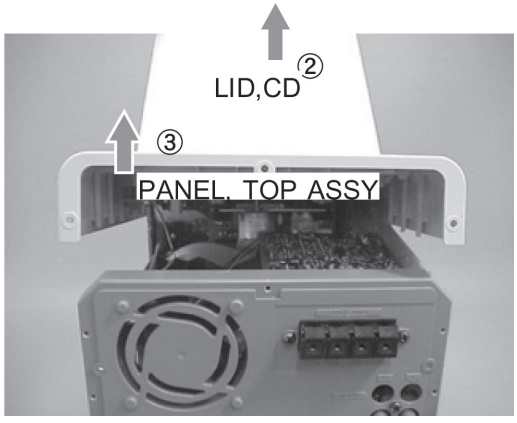


   2) Remove the six screws (four (1)s, two (2)s) and remove the PANEL, SIDE L.

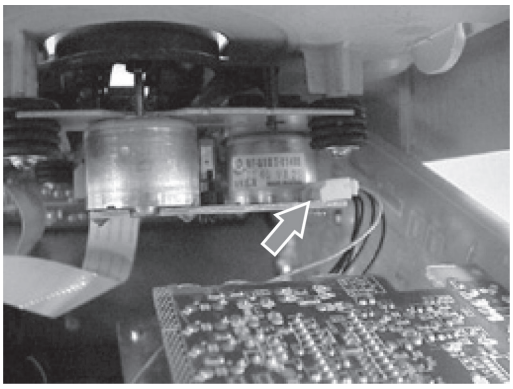


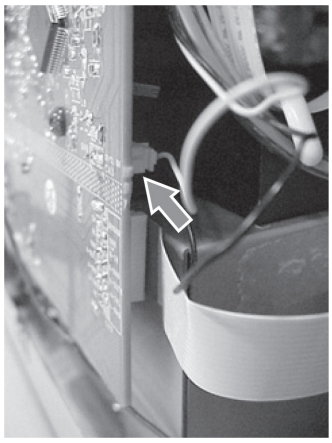
   3) Remove the three screws (1), open the LID, CD (2), and lift up the PANEL, TOP ASSY (3).



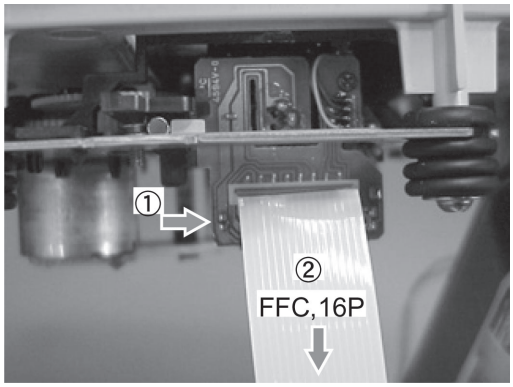


   4) Remove the two connectors.

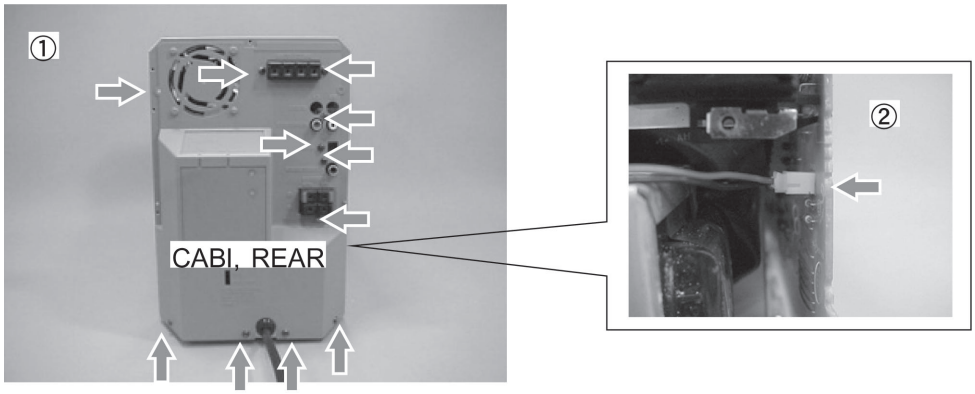




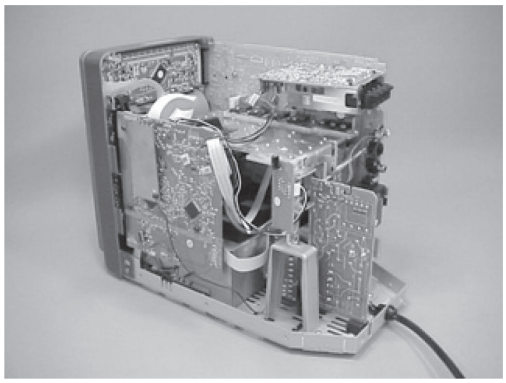
5) Short the short land (1) of the Pick Up by soldering, pull out the FFC, 16P (2) and remove the PANEL, TOP ASSY.



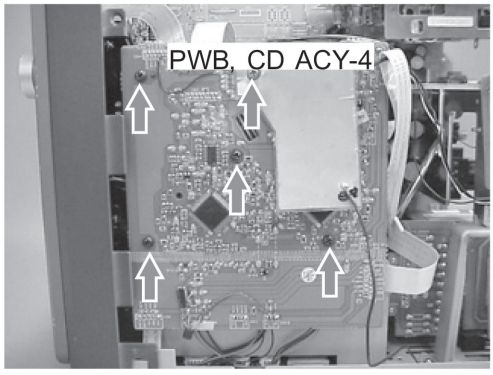
6) Remove the 11 screws (1). Disconnect the connector (2) of the FAN and remove the CABI, REAR.

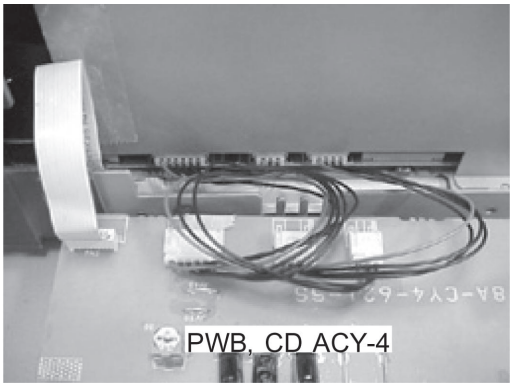


7) This picture indicates the status of the unit with the ornamental parts removed.

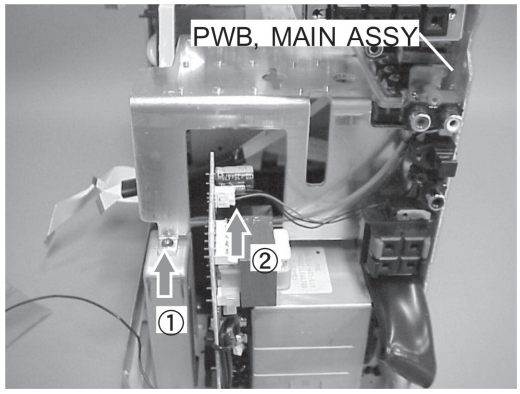


2. Removing the PWB, CD ACY-4
   1) Remove the five screws, disconnect the FFC, wires, etc., and remove the PWB, CD ACY-4.

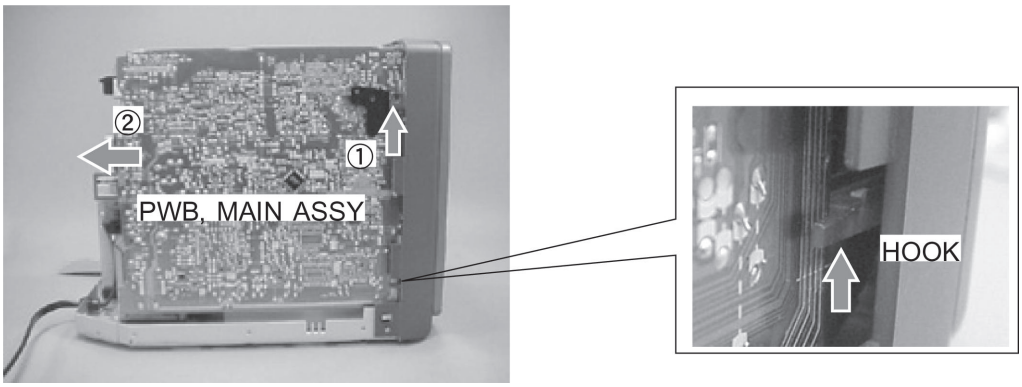




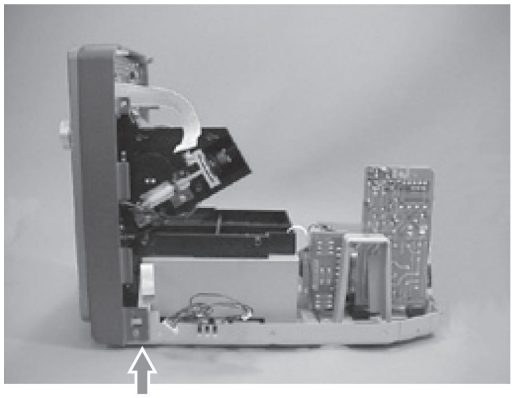
3. Removing the PWB, MAIN ASSY.
   1) Remove the screw (1) and remove the connector (2).

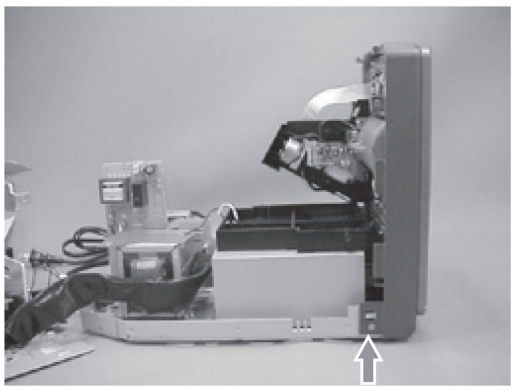


   2) Remove the screw (1) and remove the PWB, MAIN ASSY in the direction of the arrow (2).
   (The board is hooked. While lifting up the hook, remove the board.)

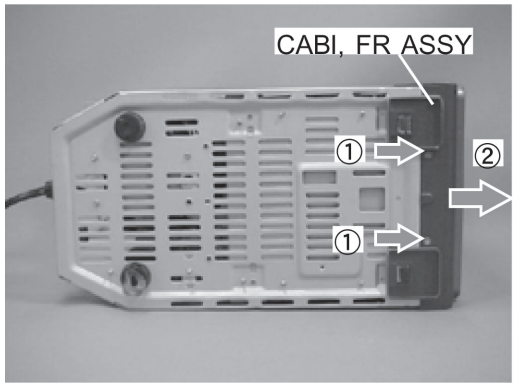


4. Removing the FRONT block.
   1) Remove the two screws securing the CAB, FR ASSY.

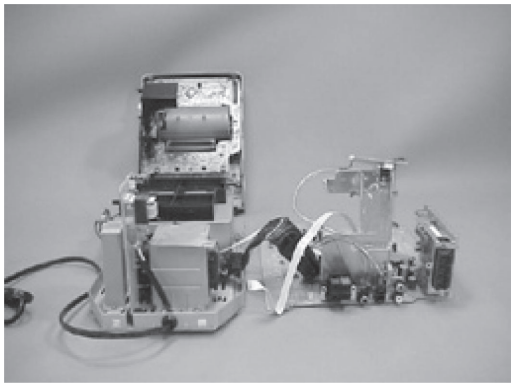




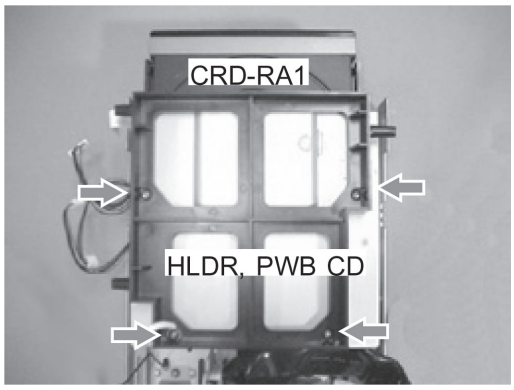
   2) Remove the two screws (1) and remove the CABI, FR ASSY in the direction of the arrow (2).



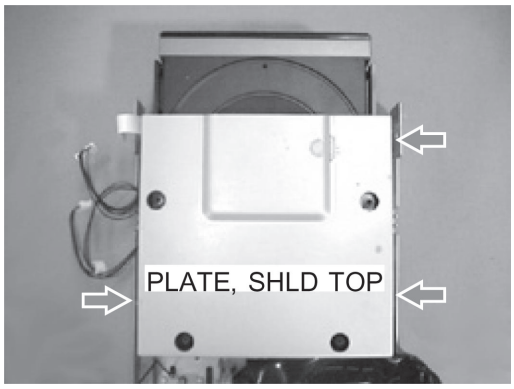
3) This picture indicates the status of the unit with the PWB, MAIN ASSY and CABI, FRONT ASSY removed.



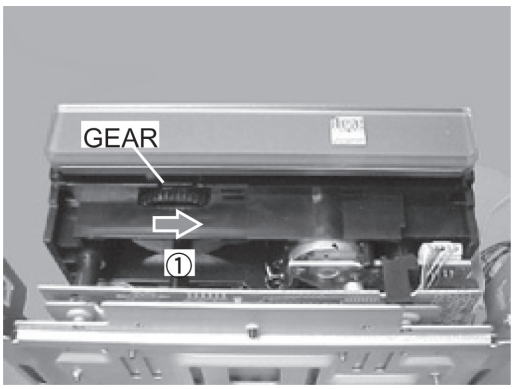
5. Removing the CD-R/RW drive unit (CRD-RA1W02(A)).
   1) Remove the four screws and remove the HLDR, PWB CD.

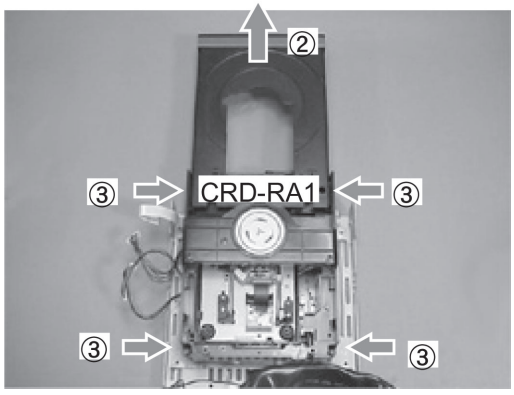


   2) Remove the three screws and remove the PLATE, SHILD TOP.



   3) Rotate the gear (1) in the direction of the arrow and open the tray (2). Remove the four screws (3) and remove the CD-R/RW drive unit.



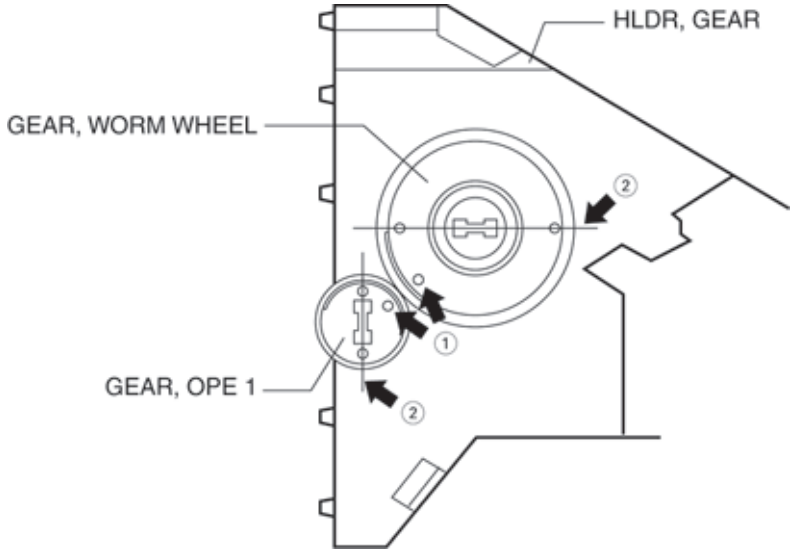


NOTES DURING RE-ASSEMBLING

When assemble the magical change panel, adjust the phase of the gear.

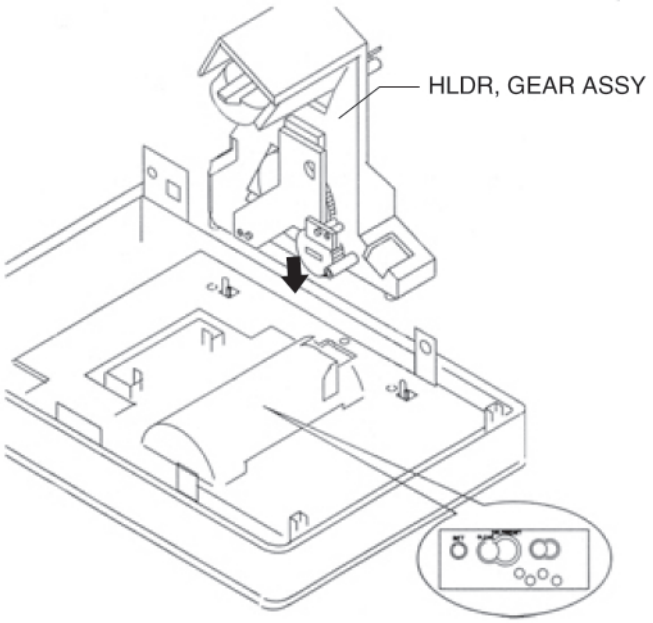
1. Phase adjustment of the GEAR, OPE 1 and GEAR, WORM WHEEL.

1) Align holes ①.
2) Then, move the position of the holes of each gear as shown by ② in the illustration.



2. Procedure of installing the HLDR, GEAR ASSY

1) Position the panel side so that it faces the front as shown in the illustration.
2) Install the HLDR, GEAR ASSY.



Position the HLDR GEAR ASSY
so that it faces the front.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-446-010		C-IC,LA9241ML
	87-A20-459-010		C-IC,LC78622ED
	87-017-917-080		IC,BU4066BCF
	87-A21-093-010		IC,LA6541D
	87-A21-770-010		IC,PQ15RW11
	87-A21-021-040		C-IC,BU2099FV
	8A-CY4-601-010		C-IC,LC87F65C8AU:ACY-4
	87-A21-573-010		IC,SPS-448-1-E
	87-A21-452-030		C-IC,BD3876KS2
	87-A21-103-040		C-IC,MM1454XFBE
	87-070-289-040		IC,BU 2092F
	87-001-755-080		IC,NJM78L05UA
	87-A20-971-040		C-IC,SN74LV14APW
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A20-870-010		IC,GP1F37R
TRANSISTOR			
	87-A30-073-080		C-TR,RT1N 141C
	87-026-463-080		TR,2SA933S (0.3W)
	87-A30-076-080		C-TR,2SC3052F
	87-026-239-080		C-TR,DTC114TK (0.2W)
	87-A30-427-040		C-TR,DTC114EKA
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-075-080		C-TR,2SA1235F
	87-A30-234-080		TR,CSC4115BC
	87-026-580-080		C-TR,DTA123JK
	87-A30-107-070		C-TR,CMBT5401
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	87-026-609-080		TR,KTA1266GR
	87-A30-190-080		TR,CC5551
	87-A30-106-070		C-TR,CMBT5551
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-137-010		TR,2SD2494
	87-A30-138-010		TR,2SB1625
	87-A30-257-080		C-TR,2SD1306E
	87-A30-240-080		TR,CSA1585BC
	87-A30-047-080		TR,CSD655E
	87-026-235-080		CHIP-TR,DTC114EK
	87-026-297-080		TR,DTA144TK
	89-113-184-080		TR,2SA1318T
	89-113-695-680		C-TR,2SA1369G/H
	87-A30-071-080		C-TR,RT1N 144C
	87-026-233-080		C-TR,DTA114TK
	87-A30-072-080		C-TR,RT1P 144C
	89-327-143-080		C-TR,2SC2714(0.1W)
	87-026-226-080		C-TR,DTA143EK
	89-505-434-540		C-FET,2SK543(4/5)
	87-A30-086-070		C-TR,CSD1306E
	87-A30-196-080		TR,2SC4115SRS
	89-503-602-080		C-FET,2SK360E
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-017-082-080		ZENER,HZS4C1
	87-017-113-080		ZENER,HZS9A2
	87-070-274-080		DIODE,1N4003 SEM
	87-070-022-010		DIODE,IN5402 (RECT)
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-004-080		ZENER,MTZJ16A
	87-070-322-080		ZENER,MTZJ 36D
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-350-080		ZENER,MTZJ 4.7C
	87-A40-250-040		C-DIODE,DAN217
	87-A40-488-080		DIODE,1SS244
	87-A40-437-080		ZENER,MTZJ4.3B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-017-932-080		ZENER,MTJ6.2B
	87-070-136-080		ZENER,MTZJ5.1B
	87-017-099-080		ZENER,HZS6B3
	87-017-121-080		ZENER,HZS11A1
	87-A40-871-080		ZENER,MTZJ5.6PC
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-149-080		ZENER,HZS6A2L
	87-A40-291-080		DIODE,1N4148
MAIN C.B			
C104	87-012-368-080		C-CAP,S 0.1-50 F
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-010-196-080		CHIP CAPACITOR,0.1-25
C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-928-000		CAP,E 4700-25 M SMG
C111	87-012-140-080		CAP,CHIP 470P
C112	87-010-112-080		CAP,ELECT 100-16V
C113	87-010-408-080		CAP,ELECT 47-50V
C114	87-010-112-080		CAP,ELECT 100-16V
C115	87-010-235-080		CAP,E 470-16 SME
C116	87-012-368-080		C-CAP,S 0.1-50 F
C117	87-012-368-080		C-CAP,S 0.1-50 F
C118	87-016-658-000		CAP,E 4700-35 M SMG
C119	87-016-658-000		CAP,E 4700-35 M SMG
C131	87-010-263-080		CAP,ELECT 100-10V
C132	87-010-405-080		CAP,ELECT 10-50V
C133	87-010-194-080		CAP,CHIP 0.047
C134	87-010-194-080		CAP,CHIP 0.047
C152	87-010-496-040		CAP,ELECT 3.3-50 M 5L
C161	87-010-260-080		CAP,ELECT 47-25V
C163	87-010-197-080		CAP,CHIP 0.01 DM
C171	87-010-260-080		CAP,ELECT 47-25V
C172	87-010-260-080		CAP,ELECT 47-25V
C173	87-010-260-080		CAP,ELECT 47-25V
C174	87-010-260-080		CAP,ELECT 47-25V
C175	87-A10-944-080		CAP,ELECT 100-100V
C176	87-010-263-080		CAP,ELECT 100-10V
C181	87-010-196-080		CHIP CAPACITOR,0.1-25
C182	87-A11-233-090		CAP,E 4700-16 105 KMG
C183	87-010-196-080		CHIP CAPACITOR,0.1-25
C186	87-016-080-090		CAP,E 3300-16 M SME
C191	87-010-196-080		CHIP CAPACITOR,0.1-25
C192	87-010-196-080		CHIP CAPACITOR,0.1-25
C193	87-010-196-080		CHIP CAPACITOR,0.1-25
C194	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-260-080		CAP,ELECT 47-25V
C202	87-010-260-080		CAP,ELECT 47-25V
C203	87-A10-946-080		C-CAP,S 220P-100 J CH
C204	87-A10-946-080		C-CAP,S 220P-100 J CH
C209	87-010-178-080		CHIP CAP,1000P
C210	87-010-178-080		CHIP CAP,1000P
C211	87-012-368-080		C-CAP,S 0.1-50 F
C212	87-012-368-080		C-CAP,S 0.1-50 F
C213	87-010-195-080		C-CAP,S 0.068-25 F
C214	87-010-195-080		C-CAP,S 0.068-25 F
C215	87-012-368-080		C-CAP,S 0.1-50 F
C216	87-012-368-080		C-CAP,S 0.1-50 F
C217	87-010-182-080		C-CAP,S 2200P-50 B
C218	87-010-182-080		C-CAP,S 2200P-50 B
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	87-010-186-080		CAP,CHIP 4700P

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C222	87-010-186-080		CAP,CHIP 4700P
C223	87-010-401-080		CAP,ELECT 1-50V
C254	87-010-494-040		CAP,ELECT 1-50V M5L
C256	87-010-492-040		CAP,ELECT 0.33-50 M5L
C261	87-010-197-080		CAP,CHIP 0.01 DM
C262	87-010-197-080		CAP,CHIP 0.01 DM
C265	87-010-546-080		CAP,ELECT 0.33-50V
C266	87-010-546-080		CAP,ELECT 0.33-50V
C267	87-010-260-080		CAP,ELECT 47-25V
C277	87-010-197-080		CAP,CHIP 0.01 DM
C283	87-010-184-080		C-CAP,S 3300P-50 KB
C284	87-010-184-080		C-CAP,S 3300P-50 KB
C401	87-010-494-080		CAP,ELECT 1-50V
C491	87-010-496-080		CAP,ELECT 3.3-50 M5L
C492	87-010-496-080		CAP,ELECT 3.3-50 M5L
C402	87-010-263-080		CAP,E 100-10 M 11L SME
C403	87-010-260-080		CAP,E 47-25 M 11L SME
C410	87-010-260-080		CAP,E 47-25 M 11L SME
C461	87-010-402-080		CAP,ELECT 2.2-50V
C462	87-010-400-080		CAP,ELECT 0.47-50V
C501	87-010-374-080		CAP,ELECT 47-10V
C502	87-010-374-080		CAP,ELECT 47-10V
C515	87-010-318-080		C-CAP,S 47P-50 CH
C516	87-010-318-080		C-CAP,S 47P-50 CH
C517	87-010-318-080		C-CAP,S 47P-50 CH
C518	87-010-318-080		C-CAP,S 47P-50 CH
C521	87-010-956-080		CHIP-CAP,S 0.068-25B
C522	87-016-369-080		C-CAP,S 0.033-25 B K
C524	87-010-401-080		CAP,ELECT 1-50V
C525	87-016-081-080		C-CAP,S 0.1-16 RK
C526	87-016-081-080		C-CAP,S 0.1-16 RK
C527	87-010-197-080		CAP,CHIP 0.01 DM
C531	87-010-404-080		CAP,ELECT 4.7-50V
C532	87-010-404-080		CAP,ELECT 4.7-50V
C535	87-A11-590-080		C-CAP,S 0.047-16 KB
C536	87-A11-590-080		C-CAP,S 0.047-16 KB
C537	87-010-400-080		CAP,ELECT 0.47-50V
C538	87-010-400-080		CAP,ELECT 0.47-50V
C539	87-010-185-080		C-CAP,S 3900P-50 KB
C540	87-010-185-080		C-CAP,S 3900P-50 KB
C541	87-A10-307-080		CAP,M 0.1-50 J
C542	87-A10-307-080		CAP,M 0.1-50 J
C543	87-A10-307-080		CAP,M 0.1-50 J
C544	87-A10-307-080		CAP,M 0.1-50 J
C545	87-016-081-080		C-CAP,S 0.1-16 RK
C546	87-016-081-080		C-CAP,S 0.1-16 RK
C547	87-010-401-080		CAP,ELECT 1-50V
C548	87-010-196-080		CHIP CAPACITOR,0.1-25
C549	87-010-401-080		CAP,ELECT 1-50V
C550	87-010-401-080		CAP,ELECT 1-50V
C551	87-010-402-080		CAP,ELECT 2.2-50V
C552	87-010-402-080		CAP,ELECT 2.2-50V
C561	87-010-407-080		CAP,ELECT 33-50V
C562	87-010-407-080		CAP,ELECT 33-50V
C563	87-012-158-080		C-CAP,S 390P-50 CH
C564	87-A12-001-080		CAP,E 2200-10 M SME
C565	87-010-403-080		CAP,E 3.3-50 M 11L SME
C581	87-010-404-080		CAP,ELECT 4.7-50V
C582	87-010-404-080		CAP,ELECT 4.7-50V
C595	87-010-493-080		CAP,ELECT 0.47-50V
C603	87-010-544-080		CAP,ELECT 0.1-50V
C604	87-010-544-080		CAP,ELECT 0.1-50V
C605	87-010-408-080		CAP,ELECT 47-50V
C607	87-010-405-080		CAP,ELECT 10-50V
C608	87-010-405-080		CAP,ELECT 10-50V
C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C610	87-010-384-080		CAP,ELECT 100-25V
C611	87-010-197-080		CAP,CHIP 0.01 DM
C612	87-010-197-080		CAP,CHIP 0.01 DM
C901	87-010-196-080		CHIP CAPACITOR,0.1-25
C902	87-010-178-080		CHIP CAP,1000P
C903	87-010-178-080		CHIP CAP,1000P
C904	87-010-196-080		CHIP CAPACITOR,0.1-25
C905	87-012-140-080		CAP,470P
C906	87-010-196-080		CHIP CAPACITOR,0.1-25
C907	87-010-197-080		CAP,CHIP 0.01 DM
CN401	87-A60-619-010		CONN,2P V 2MM JMT
CN501	87-099-719-010		CONN,30P TYK-B(X)
CN502	87-A60-423-010		CONN,14P V TOC-B
CN503	87-A60-133-010		CONN,8P V FE
CN571	87-099-570-010		CONN,13P TUC-P13P-B1
CNA101	8A-CJ3-640-010		CONN ASSY,3P V AC1
CNA901	8Z-CL4-656-010		CONN ASSY,2P V DTL SHLD
FB901	87-A50-322-080		C-COIL,S BK2125LM252
H101	87-A90-511-010		HLDR,WIRE 2.5 10P
J201	87-A60-420-010		JACK,3.5 ST(MSC)
J202	87-099-801-010		JACK,PIN 1P BLK
J203	87-A60-238-010		TERMINAL,SP 4P(MSC)
J501	87-A60-354-010		JACK,PIN 2P MSP -242V-05
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L203	87-003-098-080		COIL,2.2UH K LAL02
L205	87-003-098-080		COIL,2.2UH K LAL02
L206	87-003-098-080		COIL,2.2UH K LAL02
L563	87-A50-517-080		COIL,10UH K FLR88
L590	87-008-372-080		FILTER,EMIBL01RN1
R215	87-A00-258-080		RES,M/F 0.22-1W J
R216	87-A00-258-080		RES,M/F 0.22-1W J
R217	87-A00-258-080		RES,M/F 0.22-1W J
R218	87-A00-258-080		RES,M/F 0.22-1W J
R219	87-A00-258-080		RES,M/F 0.22-1W J
R220	87-A00-258-080		RES,M/F 0.22-1W J
R563	87-012-156-080		C-CAP,S 220P-50
R564	87-012-156-080		C-CAP,S 220P-50
R591	87-003-143-080		COIL,4.7UH K LAL02
R592	87-003-143-080		COIL,4.7UH K LAL02
TH251	87-A91-042-080		C-THMS,100K 55001
TH252	87-A91-042-080		C-THMS,100K 55001
W101	8Z-CL4-658-010		F-CABLE,10P 2.5 300MM
FC502	88-914-201-110		FF-CABLE,14P 1.25 200MM
FC503	88-908-201-110		FF-CABLE,8P 1.25

FRONT C.B

C161	87-010-196-080		CHIP CAPACITOR,0.1-25
C162	87-010-322-080		C-CAP,S 100P-50 CH
C201	87-010-316-080		C-CAP,S 33P-50 CH
C203	87-010-313-080		CAP, CHIP 18P
C204	87-010-196-080		CHIP CAPACITOR,0.1-25
C205	87-010-196-080		CHIP CAPACITOR,0.1-25
C206	87-010-196-080		CHIP CAPACITOR,0.1-25
C207	87-010-196-080		CHIP CAPACITOR,0.1-25
C231	87-010-560-040		CAP,E 10-50 GAS
C232	87-010-178-080		CHIP CAP 1000P
C241	87-016-526-080		C-CAP,S 0.47-16 BK
C242	8A-CJ4-635-010		CAP,E 470-10 SRG3.5PITCH
C243	87-010-196-080		CHIP CAPACITOR,0.1-25
C246	87-012-393-080		C-CAP,S 0.22-16 R K
C250	87-010-198-080		CHIP CAPACITOR, 0.022-25 KB
C351	87-010-197-080		CAP, CHIP 0.01 DM
C352	87-010-197-080		CAP, CHIP 0.01 DM
C353	87-010-197-080		CAP, CHIP 0.01 DM
C354	87-010-197-080		CAP, CHIP 0.01 DM
C371	87-010-552-040		CAP,E 22-16 GAS
C372	87-010-552-040		CAP,E 22-16 GAS
C373	87-A12-078-040		CAP,E 47-35 SMG
C701	87-012-156-080		C-CAP,S 220P-50 CH
C713	87-012-156-080		C-CAP,S 220P-50 CH
CN101	87-099-720-010		CONN,30P TYK-B(P)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN102	87-A60-984-010		CONN,17P V TOC-B
CN302	87-A60-624-010		CONN,7P V 2MM JMT
CNA303	8A-CJ4-641-010		CONN ASSY,7P H SW
D151	87-A40-317-080		LED,SLR-342VCT31 RED
D153	87-A40-317-080		LED,SLR-342VCT31 RED
D154	87-A40-317-080		LED,SLR-342VCT31 RED
D155	87-A40-317-080		LED,SLR-342VCT31 RED
D156	87-A40-317-080		LED,SLR-342VCT31 RED
D161	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
D162	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
D163	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
FL301	8A-CY4-604-010		FL,13-ST-46GNK ACY-4
L201	87-A50-333-010		COIL,OSC 9.43MHZ
S301	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A91-687-010		SW,RTRY RE012102PV-VOL
S801	87-A90-095-080		SW,TACT EVQ11G04M
S802	87-A90-095-080		SW,TACT EVQ11G04M
S803	87-A90-095-080		SW,TACT EVQ11G04M
S804	87-A90-095-080		SW,TACT EVQ11G04M
S805	87-A90-095-080		SW,TACT EVQ11G04M
S806	87-A90-095-080		SW,TACT EVQ11G04M
S807	87-A90-095-080		SW,TACT EVQ11G04M
S808	87-A90-095-080		SW,TACT EVQ11G04M
S809	87-A90-095-080		SW,TACT EVQ11G04M
S810	87-A90-095-080		SW,TACT EVQ11G04M
SW351	87-A91-753-010		SW,RTRY EC12E12504-JOG
X201	87-XMN-602-010		VIB,PIEZO PKM13EPY

CD C.B

C1	87-010-418-040		CAP, ELECT 3.3-25 M
C2	87-010-197-080		CAP, CHIP 0.01 DM
C3	87-010-263-080		CAP,E 100-10 11L
C4	87-A11-242-040		CAP, ELECT 220-10M
C5	87-010-197-080		CAP, CHIP 0.01 DM
C6	87-010-234-040		CAP,E 47-16 M 5L SRE
C7	87-012-349-080		C-CAP,S 1000P-50 CH
C8	87-010-198-080		CAP, CHIP 0.022
C9	87-A11-242-040		CAP, ELECT 220-10M 5L
C10	87-010-263-080		CAP,E 100-10 11L
C11	87-016-083-080		C-CAP,S 0.15-16 K R
C12	87-010-071-040		CAP, ELECT 1-50 M 5L SRE
C13	87-A11-586-080		C-CAP,S 0.033-50 K B
C14	87-010-405-080		CAP ELECT 10-50 M 11L
C15	87-010-196-080		CHIP CAPACITOR,0.1-25
C16	87-015-962-040		CAP ELECT 0.22-50 M 5L
C17	87-012-157-080		C-CAP,S 330P-50 CH
C18	87-010-213-080		C-CAP,S 0.015-50 B
C19	87-A10-201-080		C-CAP,S0.33-16 KB
C20	87-A11-586-080		C-CAP,S 0.033-50 K B
C21	87-A12-308-080		C-CAP,S 0.15-25 K B
C22	87-010-184-080		C-CAP,S 3300P-50 K B
C23	87-A11-591-080		C-CAP,S 0.047-25 K B
C24	87-A11-606-080		C-CAP,S 0.047-25 K B
C25	87-010-994-080		C-CAP,S 680P-50 CH
C26	87-A10-201-080		C-CAP,S0.33-16 KB
C28	87-010-197-080		CAP, CHIP 0.01 DM
C29	87-010-186-080		CAP,CHIP 4700P
C30	87-012-156-080		C-CAP,S 220P-50 CH
C31	87-015-962-040		CAP ELECT 0.22-50 M 5L
C32	87-015-680-040		CAP,E 47-10 M 7L SRE
C33	87-010-071-040		CAP, ELECT 1-50 M 5L SRE
C34	87-010-184-080		CHIP CAPACITOR 3300P(K)
C35	87-010-197-080		CAP, CHIP 0.01 DM
C36	87-010-374-080		CAP,E 47-10 M11L SME
C37	87-010-404-080		CAP, ELECT 4.7-50V
C38	87-010-196-080		CHIP CAPACITOR,0.1-25
C39	87-012-349-080		C-CAP,S 1000P-50 CH
C40	87-010-145-080		C-CAP,S 1P-50 C CH GRM
C41	87-010-184-080		CHIP CAPACITOR 3300P(K)
C42	87-010-313-080		C-CAP,S 18P-50 CH
C45	87-010-196-080		CHIP CAPACITOR,0.1-25
C46	87-010-196-080		CHIP CAPACITOR,0.1-25
C47	87-010-196-080		CHIP CAPACITOR,0.1-25
C48	87-010-315-080		C-CAP,S 27P-50 CH
C50	87-015-968-040		CAP,E 4.7-16 M 5L SRE
C51	87-012-156-080		C-CAP,S 220P-50 CH
C53	87-010-322-080		C-CAP,S 100P-50 CH
C55	87-010-263-080		CAP,E 100-10 11L
C57	87-010-316-080		C-CAP,S 33P-50 CH
C58	87-010-316-080		C-CAP,S 33P-50 CH
C59	87-010-263-080		CAP,E 100-10 11L
C60	87-010-196-080		CHIP CAPACITOR,0.1-25
C61	87-010-196-080		CHIP CAPACITOR,0.1-25
C62	87-010-371-080		CAP, ELECT 470-6.3V
C65	87-010-404-080		CAP, ELECT 4.7-50V
C66	87-010-196-080		CHIP CAPACITOR,0.1-25
C67	87-010-263-080		CAP,E 100-10 11L
C68	87-010-322-080		C-CAP,S 100P-50 CH
C69	87-012-154-080		C-CAP,S 150P-50 CH
C72	87-012-140-080		C-CAP,S 470P-50 J CH
C81	87-010-417-080		CAP,E 2.2-35 5L
C82	87-010-417-080		CAP,E 2.2-35 5L
C83	87-010-181-080		CAP,CHIP S 1800P
C84	87-010-181-080		CAP,CHIP S 1800P
C90	87-010-196-080		CHIP CAPACITOR,0.1-25
C93	87-010-196-080		CAP, CHIP 0.1-25 Z F
C94	87-010-197-080		CAP, CHIP 0.01 DM
C95	87-010-197-080		CAP, CHIP 0.01 DM
C101	87-010-322-080		C-CAP,S 100P-50 CH
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-322-080		C-CAP,S 100P-50 CH
C104	87-010-322-080		C-CAP,S 100P-50 CH
C105	87-010-322-080		C-CAP,S 100P-50 CH
C106	87-012-350-080		C-CAP,S 1-25 Z F
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C495	87-010-196-080		CHIP CAPACITOR,0.1-25
C601	87-010-263-080		CAP,E 100-10 11L
C620	87-010-196-080		CHIP CAPACITOR,0.1-25
C660	87-010-197-080		CAP, CHIP 0.01 DM
C661	87-010-197-080		CAP, CHIP 0.01 DM
C671	87-010-196-080		CHIP CAPACITOR,0.1-25
C672	87-010-196-080		CHIP CAPACITOR,0.1-25
C673	87-010-196-080		CHIP CAPACITOR,0.1-25
C674	87-010-196-080		CHIP CAPACITOR,0.1-25
C675	87-010-197-080		CAP, CHIP 0.01 DM
C676	87-A12-326-080		CAP,E 1000-16 RS
C679	87-010-263-080		CAP,E 100-10 11L
C680	87-010-197-080		CAP, CHIP 0.01 DM
C901	87-A11-727-080		C-CAP,S 0.33-25 Z F
C902	87-010-196-080		CHIP CAPACITOR,0.1-25
C905	87-012-156-080		CAP 220P-50 J CH
C906	87-012-156-080		CAP 220P-50 J CH
C907	87-012-156-080		CAP 220P-50 J CH
C908	87-012-156-080		CAP 220P-50 J CH
C909	87-012-156-080		CAP 220P-50 J CH
C910	87-012-156-080		CAP 220P-50 J CH
C911	87-012-156-080		CAP 220P-50 J CH
C913	87-010-197-080		CAP, CHIP 0.01 DM
CN1	87-A60-424-010		CONN,16P V TOC-B

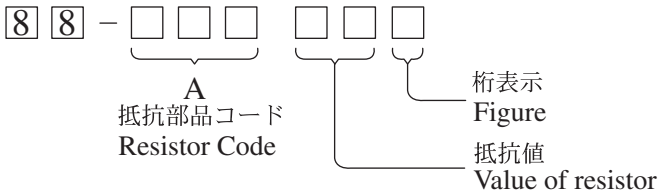
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN2	87-009-034-010		CONN,6P PH V
CN3	87-009-345-010		CONN,2P H WHT PH
CN4	87-A61-283-010		CONN,17P V FWN-BTRK
CN5	87-A60-156-010		CONN,8P H FE
CN6	87-A61-375-010		CONN,9P H GRY FMN-SSTK
CN7	87-A61-089-010		CONN,14P H GRY FMN-SSTK
CN8	87-009-349-010		CONN,6P PH H
CN9	87-009-347-010		CONN,4P PH H WHT
CN10	87-009-346-010		CONN,3P PH H
CN11	87-A60-619-010		CONN,2P V 2MM JMT
CNA12	88-805-042-490		CONN ASSY,4P
CNA103	8A-CY4-632-010		CONN ASSY,2P RED
FC1	8A-CY4-631-010		FF-CABLE,16P 1.0 220MM
FC4	8A-CJ4-651-010		FF-CABLE,17P 1.0
FC6	88-909-101-210		FF-CABLE,9P 1.25 100MM
JR907	83-XM1-617-080		C-COIL,BK2125HM601
JR908	83-XM1-617-080		C-COIL,BK2125HM601
JR909	83-XM1-617-080		C-COIL,BK2125HM601
JR910	83-XM1-617-080		C-COIL,BK2125HM601
JR911	87-A50-189-080		C-COIL,S BLM21B272S
JR912	83-XM1-617-080		C-COIL,BK2125HM601
JR913	87-A50-189-080		C-COIL,S BLM21B272S
JR922	83-XM1-617-080		C-COIL,BK2125HM601
JW39	87-008-372-080		FLTR,EMI BL01 RN1
L1	87-003-102-080		COIL, 10UH
L2	87-003-146-080		COIL,15UH LAL02
L3	87-008-372-080		FILTER, EMI BL OIRNI
L4	87-003-102-080		COIL, 10UH
L5	87-003-152-080		COIL, 100UH
L6	87-003-102-080		COIL, 10UH
L7	87-003-102-080		COIL, 10UH
L8	87-003-102-080		COIL, 10UH
R68	87-A50-189-080		C-COIL,S BLM21B272S
SFR130	87-024-437-080		SFR100K,RH063EC
X1	87-A70-046-010		VIB,XTAL 16.934MHZ
FACE-A C.B			
C824	87-010-197-080		CAP, CHIP 0.01 DM
CNA801	8A-CJ4-650-010		CONN ASSY,2P V FACE A
FACE-B C.B			
C151	87-018-209-080		CAP, CER 0.1-50V
C152	87-010-196-080		CHIP CAPACITOR,0.1-25
C801	87-010-322-080		C-CAP,S 100P-50 CH
C802	87-010-322-080		C-CAP,S 100P-50 CH
C821	87-010-196-080		CHIP CAPACITOR,0.1-25
C826	87-010-197-080		CAP, CHIP 0.01 DM
C827	87-010-197-080		CAP, CHIP 0.01 DM
C829	87-010-197-080		CAP, CHIP 0.01 DM
C830	87-010-197-080		CAP, CHIP 0.01 DM
CN801	87-A60-619-010		CONN,2P V 2MM JMT
CNA302	8A-CL4-641-010		CONN ASSY,7P H PANEL
CNA804	8A-CL4-644-010		CONN ASSY,3P V FACE C
D831	87-A40-496-040		LED,SLR-342MCT31 GRN
D832	87-A40-496-040		LED,SLR-342MCT31 GRN
D833	87-A40-496-040		LED,SLR-342MCT31 GRN
D834	87-A40-496-040		LED,SLR-342MCT31 GRN
D835	87-A40-496-040		LED,SLR-342MCT31 GRN
L151	87-003-154-080		COIL, 220UH J LALO2
L152	87-003-154-080		COIL, 220UH J LALO2
FACE-C C.B			
C825	87-010-197-080		CAP, CHIP 0.01 DM
CN804	87-A60-620-010		CONN,3P V 2MM JMT
S861	87-A90-095-080		SW,TACT EVQ11G04M
S862	87-A90-095-080		SW,TACT EVQ11G04M
S863	87-A90-095-080		SW,TACT EVQ11G04M
S864	87-A90-095-080		SW,TACT EVQ11G04M
S865	87-A90-095-080		SW,TACT EVQ11G04M
S866	87-A90-095-080		SW,TACT EVQ11G04M
SW-1 C.B			
C901	87-010-264-040		CAP,E 100-10 5L
C902	87-010-264-040		CAP,E 100-10 5L
CN303	87-A60-672-010		CONN,8P H 2MM JMT
CNA901	8A-CJ4-646-010		CONN ASSY,2P V SW-2
S902	87-A90-117-010		SW,PUSH 1-1-1 MPU103
S903	87-A90-117-010		SW,PUSH 1-1-1 MPU103
S904	87-A90-117-010		SW,PUSH 1-1-1 MPU103
SW-2 C.B			
S901	87-A90-117-010		SW,PUSH 1-1-1 MPU103
PT1 C.B			
C1	87-010-387-080		CAP,E 470-25 M SME
⚠ C3	87-A10-479-080		CAP,CER 2200P-250 M E KH
C5	87-010-403-080		CAP,ELECT 3.3-50V
CN1	87-A60-620-010		CONN,3P V 2MM JMT
⚠ PR1	87-A91-276-080		FUSE,125MA 125V F 251
⚠ PT2	8Z-NF8-661-010		PT,SUB ZNF-8(U)
⚠ RY1	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠ T1	87-A60-317-010		TERMINAL,1P MSC
⚠ T2	87-A60-317-010		TERMINAL,1P MSC
PT2 C.B			
H51	87-A90-511-010		HLDR,WIRE 2.5 10P
⚠ PR51	87-A90-113-080		FUSE,4A 125V 251
⚠ PR52	87-A90-113-080		FUSE,4A 125V 251
⚠ PR53	87-026-690-080		FUSE,5A 125V 251
⚠ PR54	87-026-690-080		FUSE,5A 125V 251
⚠ PR55	87-026-690-080		FUSE,5A 125V 251
⚠ PR56	87-026-690-080		FUSE,5A 125V 251
⚠ PT1	8A-CJ4-607-010		PT,U ACJ-4
MOTOR C.B			
M1	S0-M10-A09-700		MOTOR SLED ASSY
PIN3	S2-369-750-000		PLUG,6P
SW1	S4-S13-A01-600		SW,LEAF
REG C.B			
C91	87-010-112-080		CAP,E 100-16
C92	87-A11-727-080		C-CAP,S 0.33-25 Z F
CN12	87-009-032-010		CONN,4P V WHT PH
TUNER C.B			
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
C705	87-A10-592-080		C-CAP,S 0.015-50 J B
C706	87-A10-592-080		C-CAP,S 0.015-50 J B
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
C714	87-012-286-080		CAP,U 0.01-25
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
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	87-010-987-080		C-CAP,S 1500P-50 CH
C734	87-010-987-080		C-CAP,S 1500P-50 CH
C735	87-010-987-080		C-CAP,S 1500P-50 CH
C736	87-010-987-080		C-CAP,S 1500P-50 CH
C737	87-A10-592-080		C-CAP,S 0.015-50 J B
C738	87-A10-592-080		C-CAP,S 0.015-50 J B
C751	87-012-365-080		C-CAP,S 0.027-25VBK
C752	87-012-365-080		C-CAP,S 0.027-25VBK
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
C763	87-010-829-080		CAP,U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH
C765	87-012-286-080		CAP,U 0.01-25
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	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP,ELECT 1-50V
C779	87-010-401-080		CAP,ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP,ELECT 10-50V
C782	87-010-405-080		CAP,ELECT 10-50V

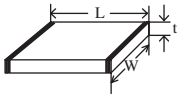
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C783	87-012-286-080		CAP,U 0.01-25
C784	87-012-286-080		CAP,U 0.01-25
C785	87-010-401-080		CAP, ELECT 1-50V
C786	87-010-401-080		CAP, ELECT 1-50V
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP,ELECT 10-50V
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
C799	87-010-829-080		CAP,U 0.047-16
C812	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
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH
C963	87-010-196-080		CHIP CAPACITOR,0.1-25
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
CN701	87-A60-700-010		CONN,13P H GRY TUC-P13X-C1
FFE801	A8-6ZA-19C-170		6ZA-1 YFEENC
J801	87-A60-702-010		TERMINAL,ANT 4P CJ-9036
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-110-010		FLTR,PCFJZH-450 (TOK)
L981	8Z-ZA1-667-010		COIL,AM PACK 4F(TOK)
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

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

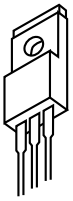


チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	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

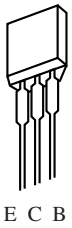
CC5551
CSA1585BC
CSC4115BC
KTA1266GR
KTC3198GR



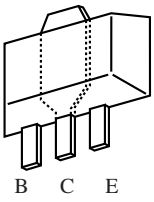
2SB1370
2SB1625
2SD2494

2SA1318T

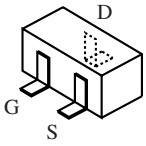
CSD655E



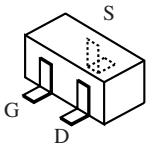
2SA933S
2SC4115SRS



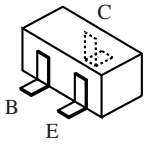
2SA1369G/H



2SK2158



2SK360E
2SK543 (4/5)



2SA1235F
2SC2714
2SC3052F
2SD1306E
CMBT5401
CMBT5551
CSD1306E
DTA123JK
DTA143EK
DTA144TK
DTA114TK
DTC114EK
DTC114EKA
DTC114TK
RT1N141C
RT1N144C
RT1P141C
RT1P144C
RT1P441C

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

FROM M TUNER C.B
CN701
1 3 5 7 9 11 13
TO CN571

TO C CD C.B
CN7
FC502
14 10 5 1
TO CN502

TO C CD C.B
CN5
FC503
87 5 3 1
TO CN503

CN571

J501
AUX/VIDEO IN
R L

TO C CD C.B
CN11
CNA901
BLK

IC901
DIGITAL IN (OPTICAL)

TO PT1 C.B
CN001
CNA101
RED

J202
SUPER WOOFER

J203
SPEAKERS
SPEAKER IMP: 6Ω

TO PT2 C.B
H051
W101
WHT
1 2 3 4 5 6 7 8 9 10
TO CN401

FAN60

CN401

IC902

CN502

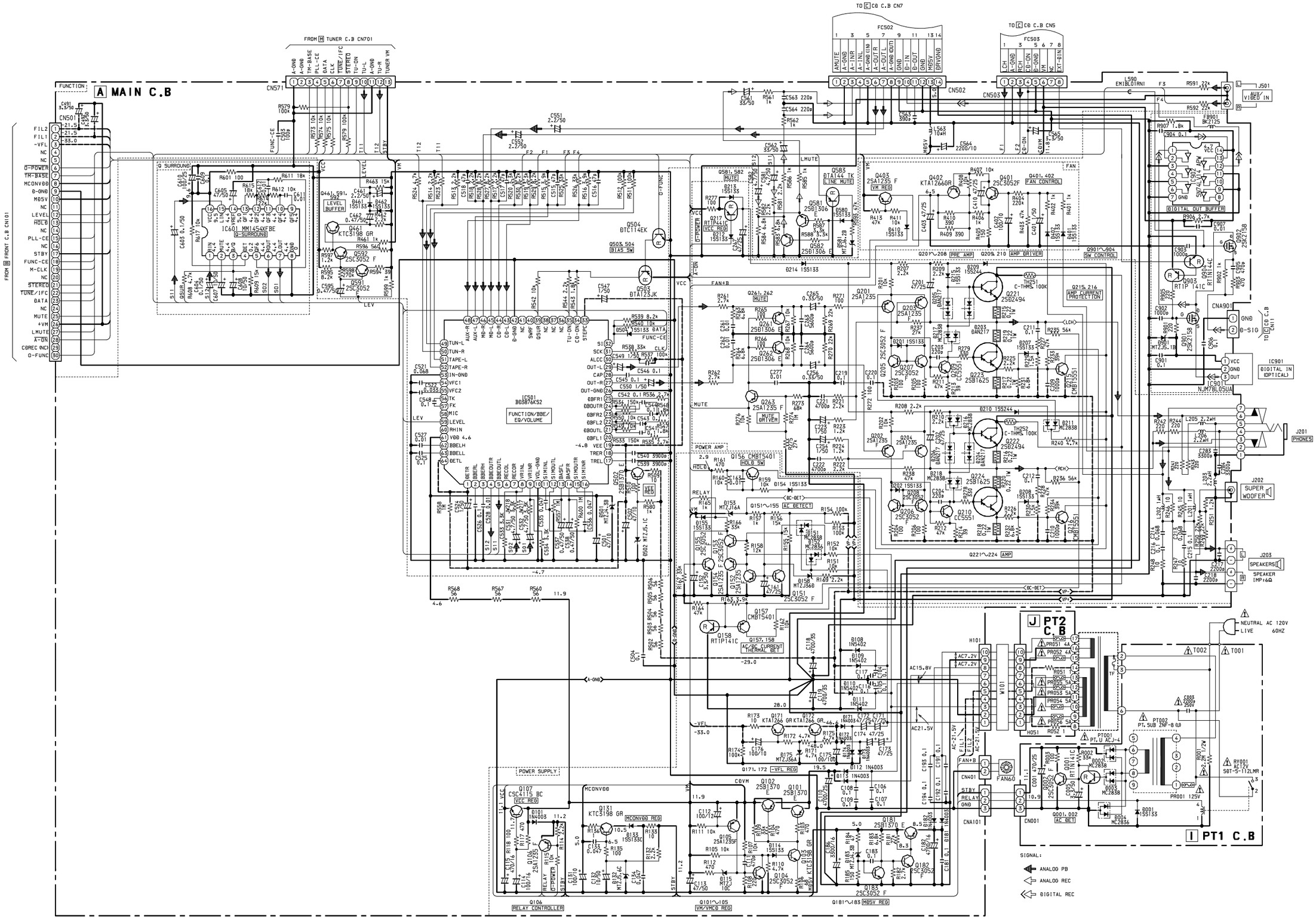
CN503

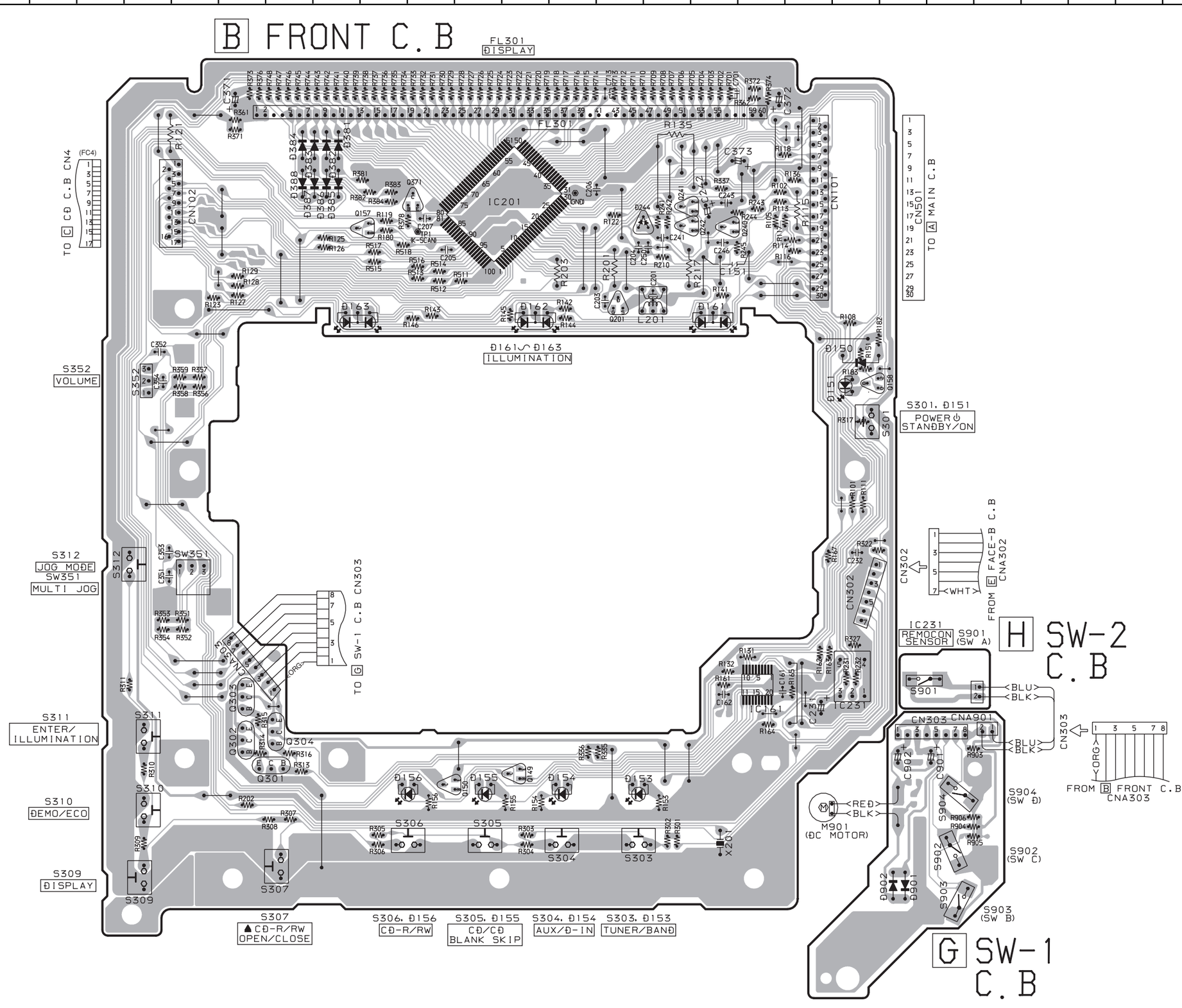
IC501

FROM B FRONT C.B
CN101
CN501
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

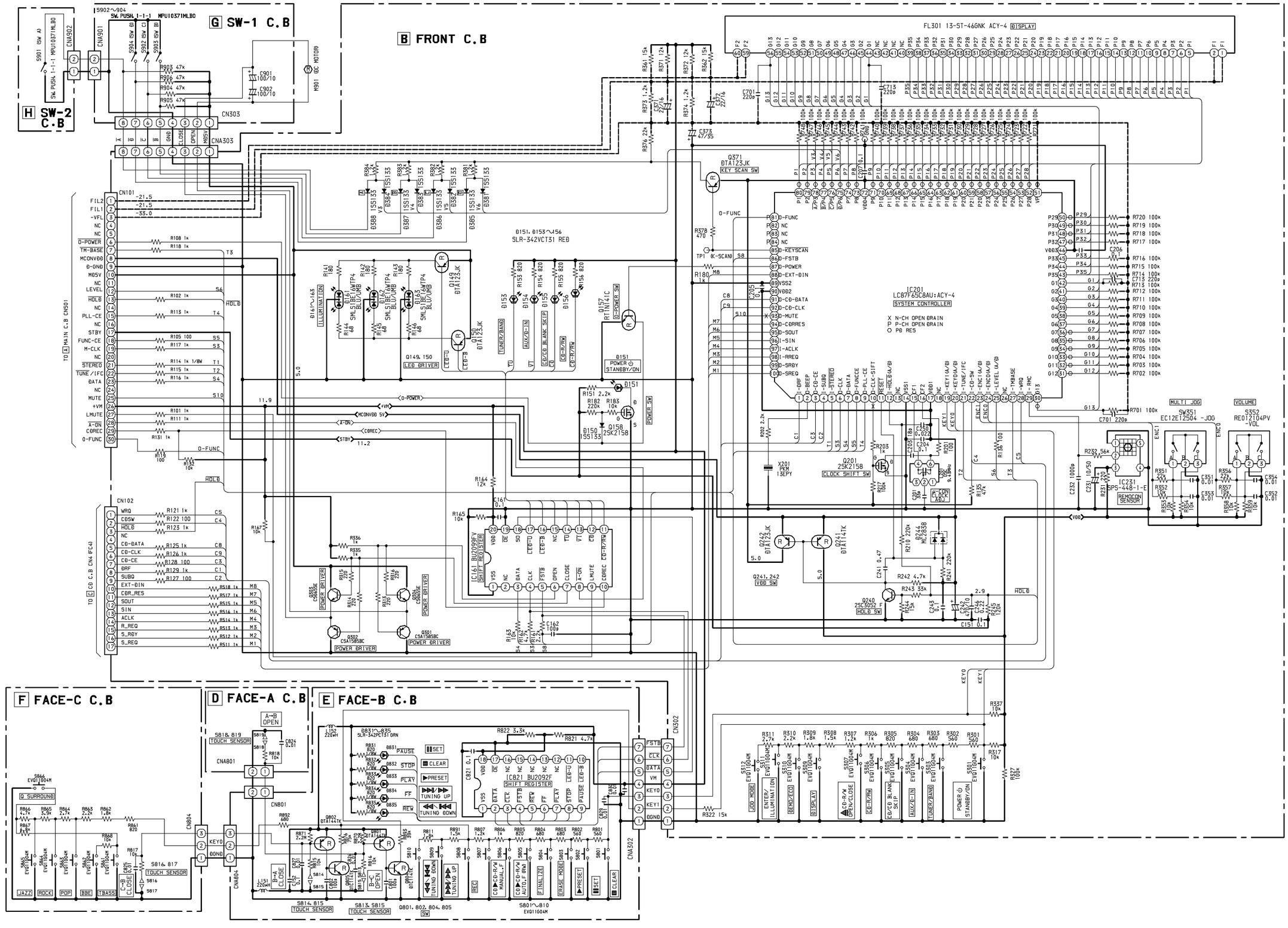
J201
PHONES

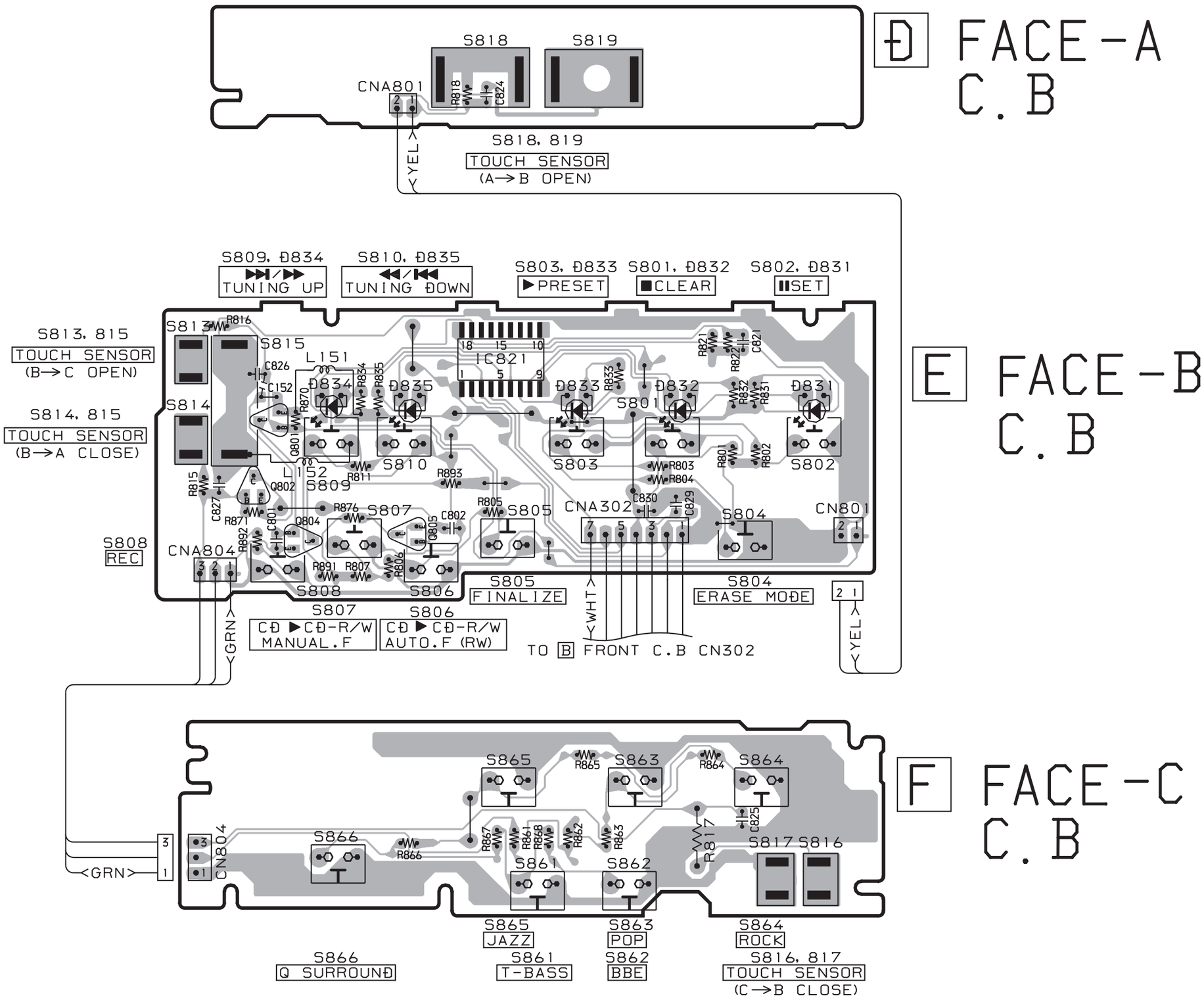
SCHEMATIC DIAGRAM – 1 (MAIN / PT1 / PT2)

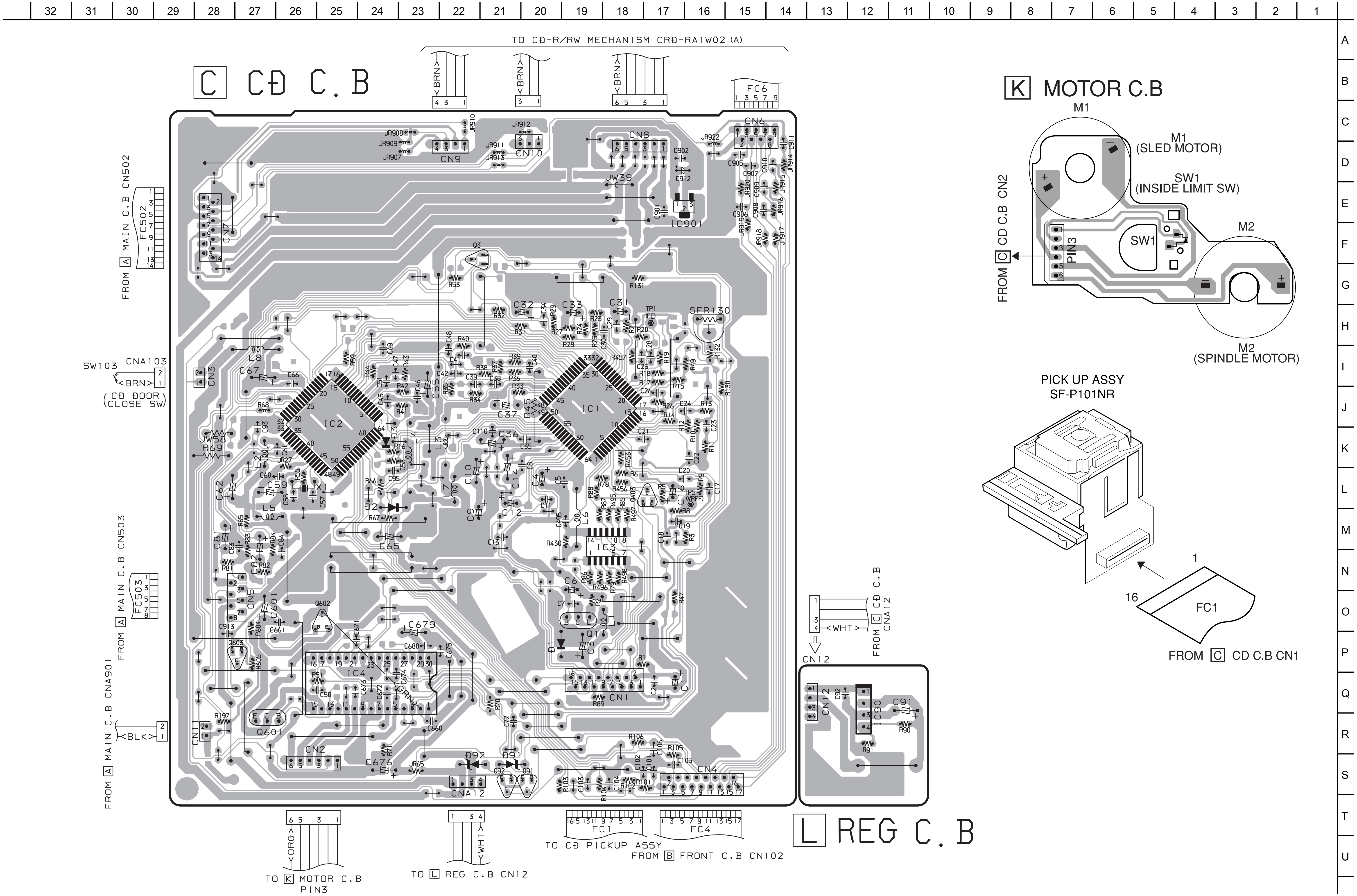



B FRONT C.B
FL301
DISPLAY
IC201
FL301
R135
C373
CN102
CN101
CN501
TO A MAIN C.B
TO C CD C.B CN4
(FC4)
D161~D163
ILLUMINATION
S352
VOLUME
S312
JOG MODE
SW351
MULTI JOG
S311
ENTER/
ILLUMINATION
S310
DEMO/ECO
S309
DISPLAY
S307
▲CD-R/RW
OPEN/CLOSE
S306, D156
CD-R/RW
S305, D155
CD/CD
BLANK SKIP
S304, D154
AUX/D-IN
S303, D153
TUNER/BAND
S301, D151
POWER ⏻
STANDBY/ON
TO G SW-1 C.B CN303
FROM E FACE-B C.B
CNA302
CN302
IC231
REMOCON
S901
(SW A)
H SW-2
C.B
CN303
CNA901
FROM B FRONT C.B
CNA303
M901
(DC MOTOR)
S904
(SW D)
S902
(SW C)
S903
(SW B)
G SW-1
C.B

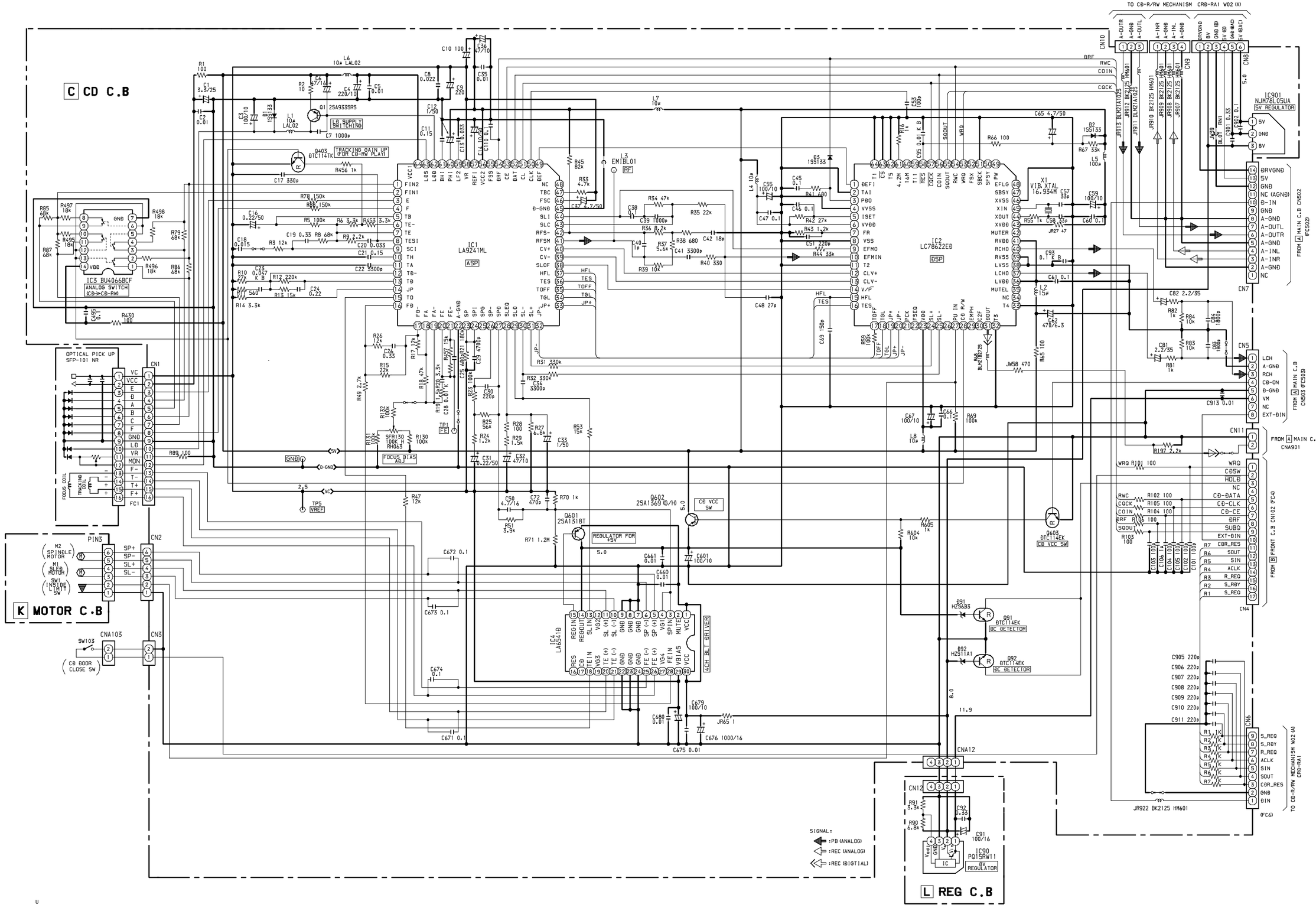
SCHEMATIC DIAGRAM – 2 (FRONT / FACE-A / FACE-B / FACE-C / SW-1 / SW-2)




Đ FACE-A
C.B
S818
S819
CNA801
R818
C824
S818, 819
TOUCH SENSOR
(A→B OPEN)
YEL
E FACE-B
C.B
S809, Đ834
TUNING UP
S810, Đ835
TUNING ĐOWN
S803, Đ833
▶PRESET
S801, Đ832
■CLEAR
S802, Đ831
❚❚SET
S813, 815
TOUCH SENSOR
(B→C OPEN)
S814, 815
TOUCH SENSOR
(B→A CLOSE)
S808
REC
S807
CĐ ▶CĐ-R/W
MANUAL.F
S806
CĐ ▶CĐ-R/W
AUTO.F (RW)
S805
FINALIZE
S804
ERASE MOĐE
CNA804
CNA302
CN801
IC821
L151
L152
Q801
Q802
Q804
Q805
GRN
WHT
YEL
TO B FRONT C.B CN302
F FACE-C
C.B
S865
S863
S864
S866
S861
S862
S817 S816
CN804
GRN
S865
JAZZ
S863
POP
S864
ROCK
S866
Q SURROUNĐ
S861
T-BASS
S862
BBE
S816, 817
TOUCH SENSOR
(C→B CLOSE)


C CD C.B
TO CD-R/RW MECHANISM CRD-RA1W02 (A)
FC6
FROM A MAIN C.B CN502
FC502
SW103 CNA103
(CD DOOR CLOSE SW)
FROM A MAIN C.B CN503
FC503
FROM A MAIN C.B CNA901
IC1
IC2
IC3
IC4
IC901
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CNA12
FC1
FC4
TO K MOTOR C.B PIN3
TO L REG C.B CN12
TO CD PICKUP ASSY
FROM B FRONT C.B CN102
L REG C.B
CN12
IC90
FROM C CD C.B CNA12
K MOTOR C.B
M1
M1 (SLED MOTOR)
SW1 (INSIDE LIMIT SW)
M2
M2 (SPINDLE MOTOR)
PIN3
FROM C CD C.B CN2
PICK UP ASSY
SF-P101NR
FROM C CD C.B CN1

SCHEMATIC DIAGRAM – 3 (CD / MOTOR / REG)



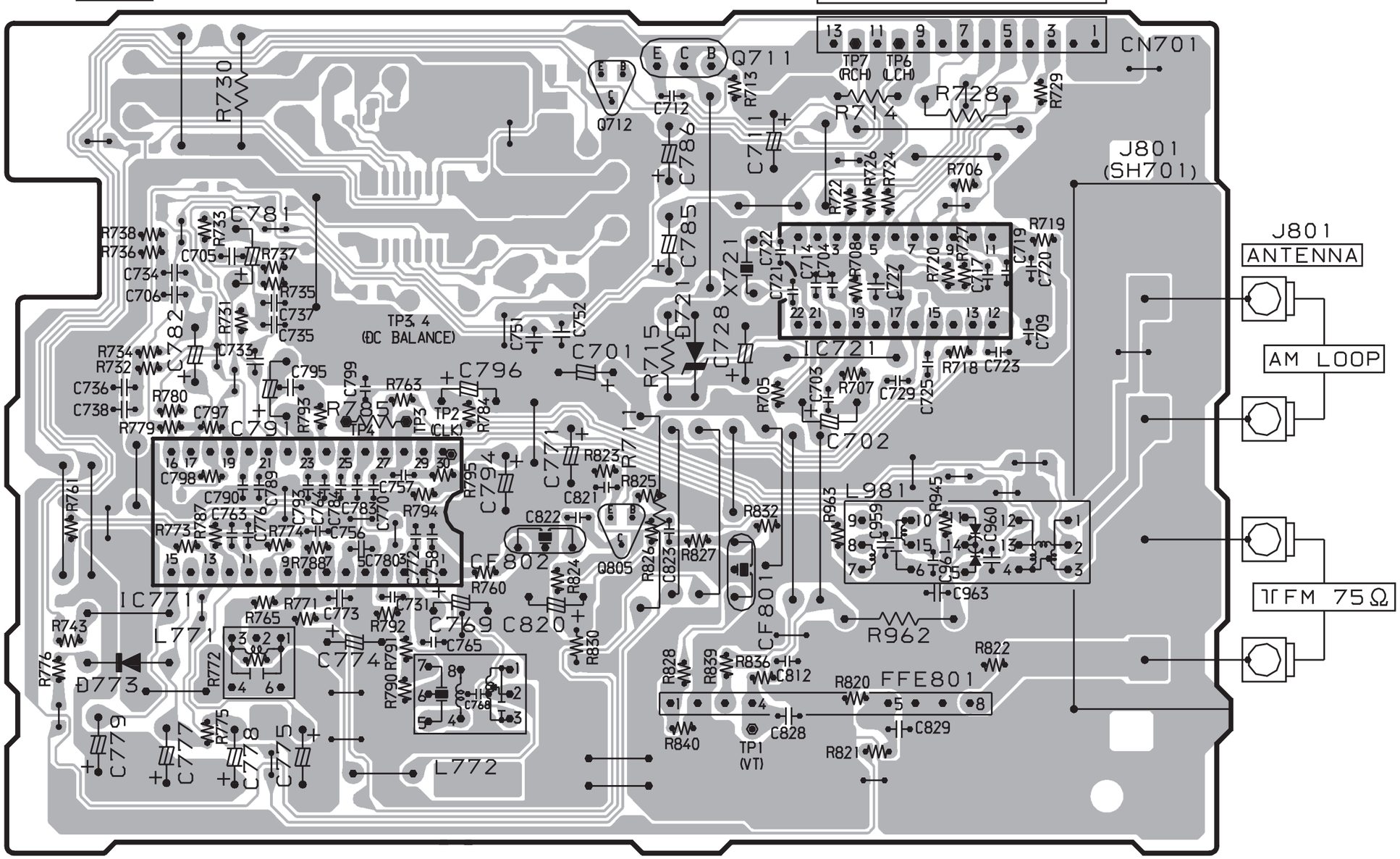
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

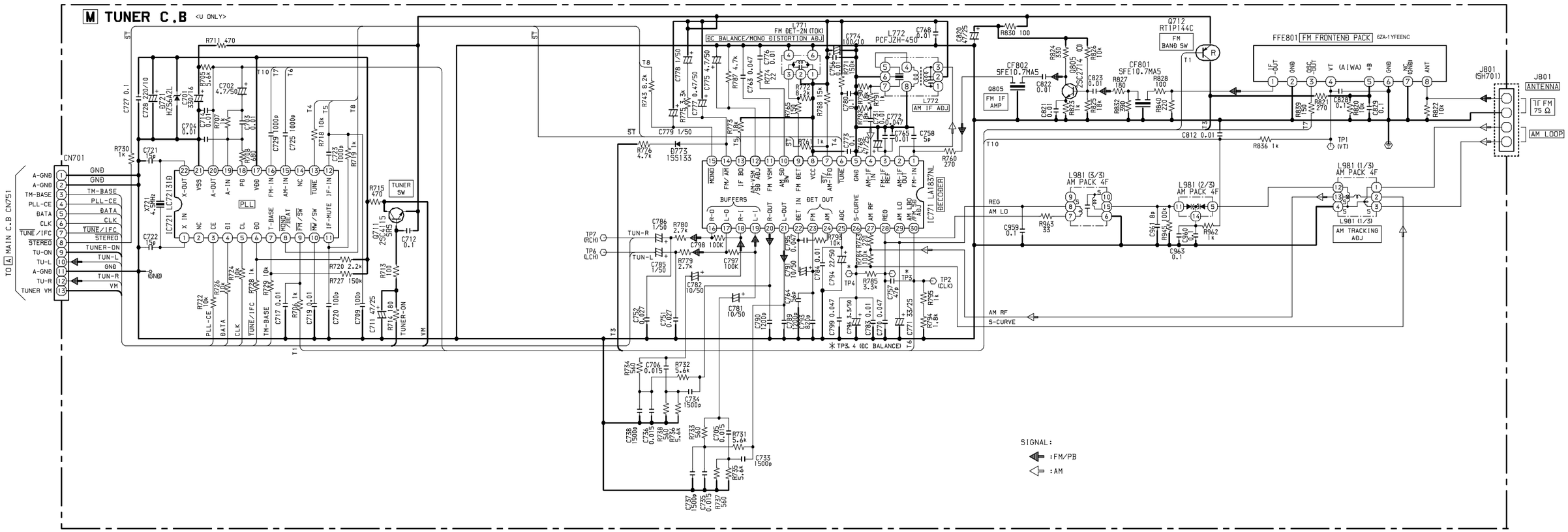
M TUNER C.B

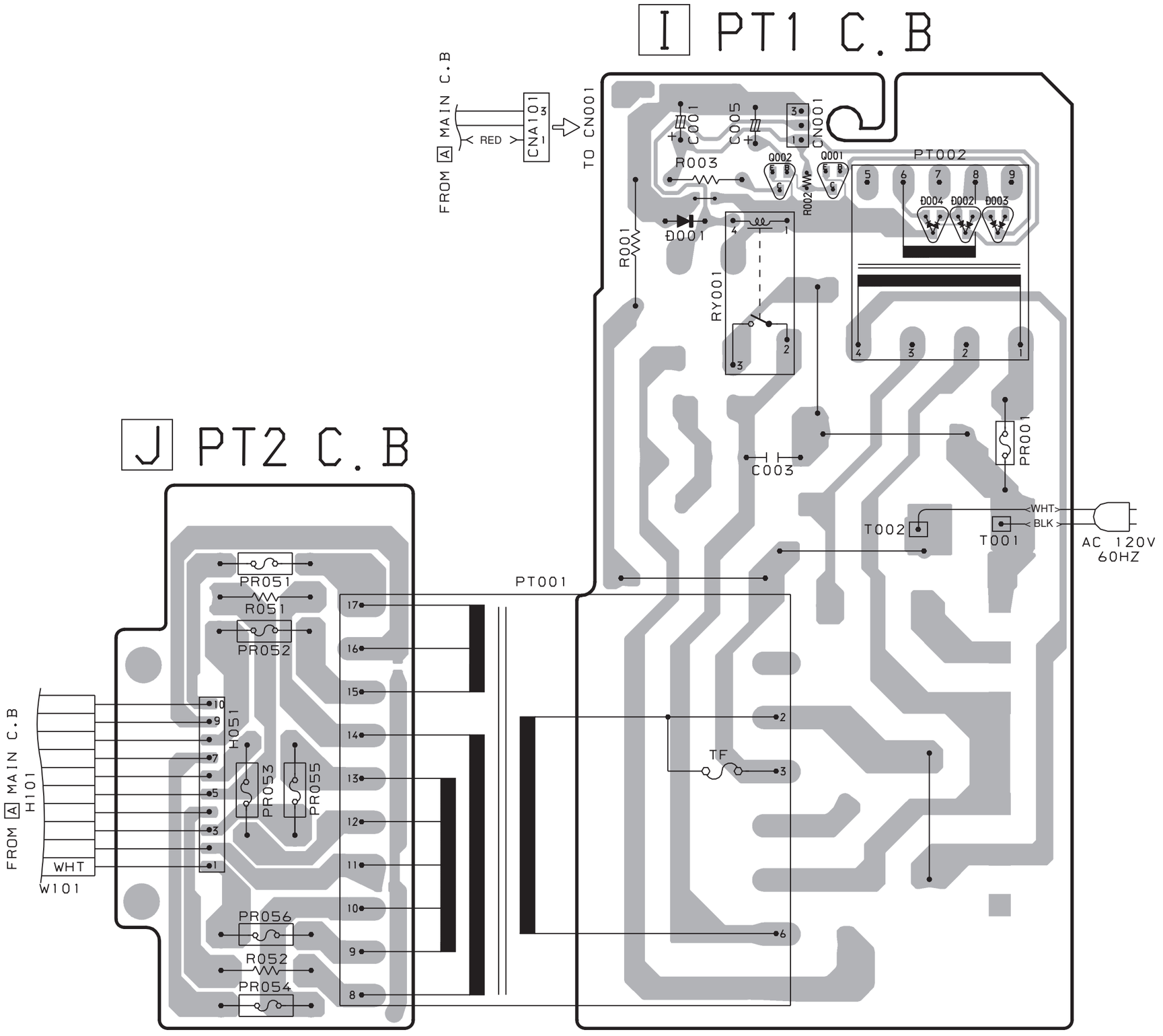
TO A MAIN C.B CN571

13 11 9 7 5 3 1



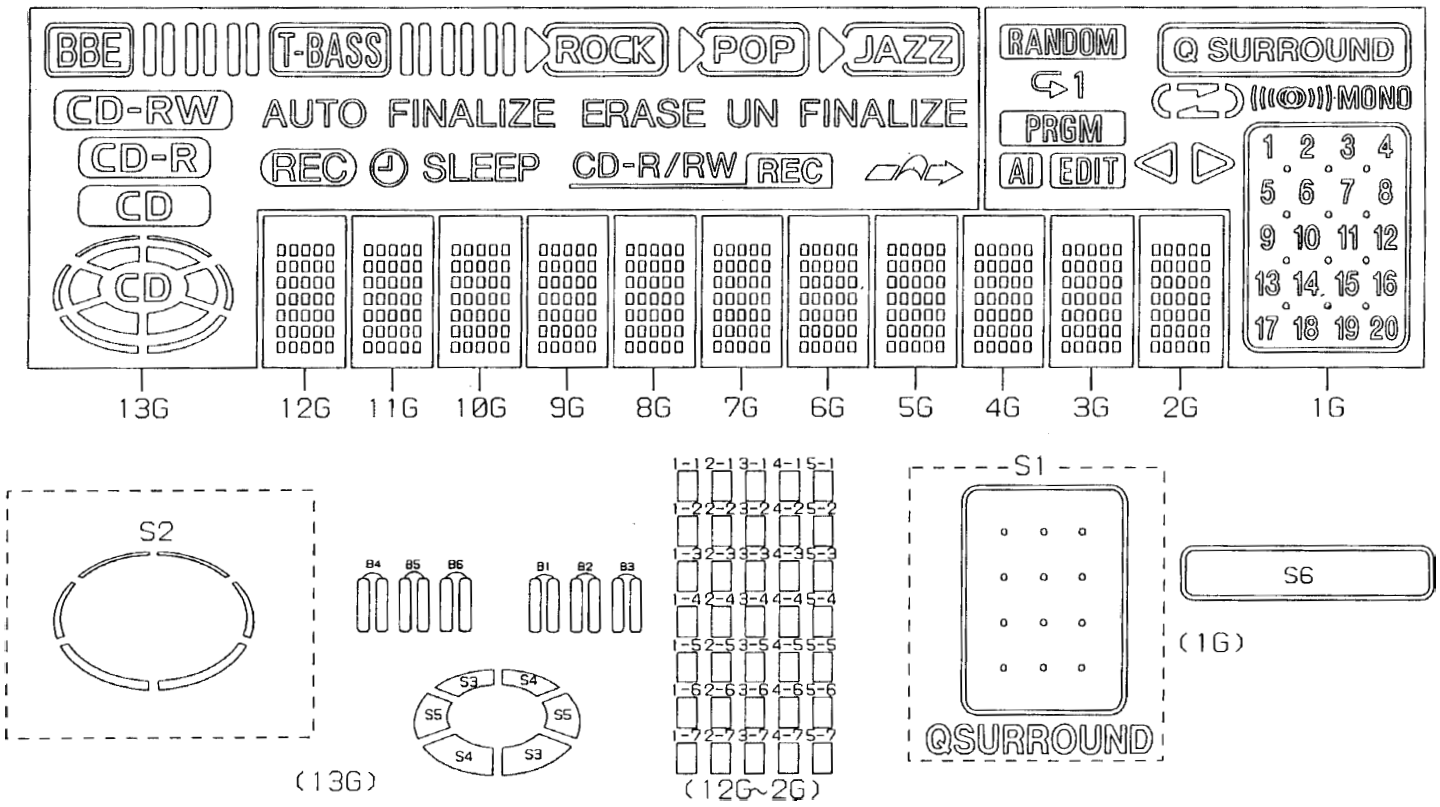
SCHEMATIC DIAGRAM – 4 (TUNER)



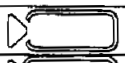

I PT1 C.B
FROM A MAIN C.B
CNA101
RED
TO CN001
C001
C005
CN001
R003
Q002
Q001
R002
PT002
D004
D002
D003
D001
R001
RY001
C003
PR001
T002
T001
WHT
BLK
AC 120V
60HZ
J PT2 C.B
PR051
R051
PR052
H051
PR053
PR055
PR056
R052
PR054
PT001
TF
FROM A MAIN C.B
H101
WHT
W101

FL (13-ST-46GNK ACY-4) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

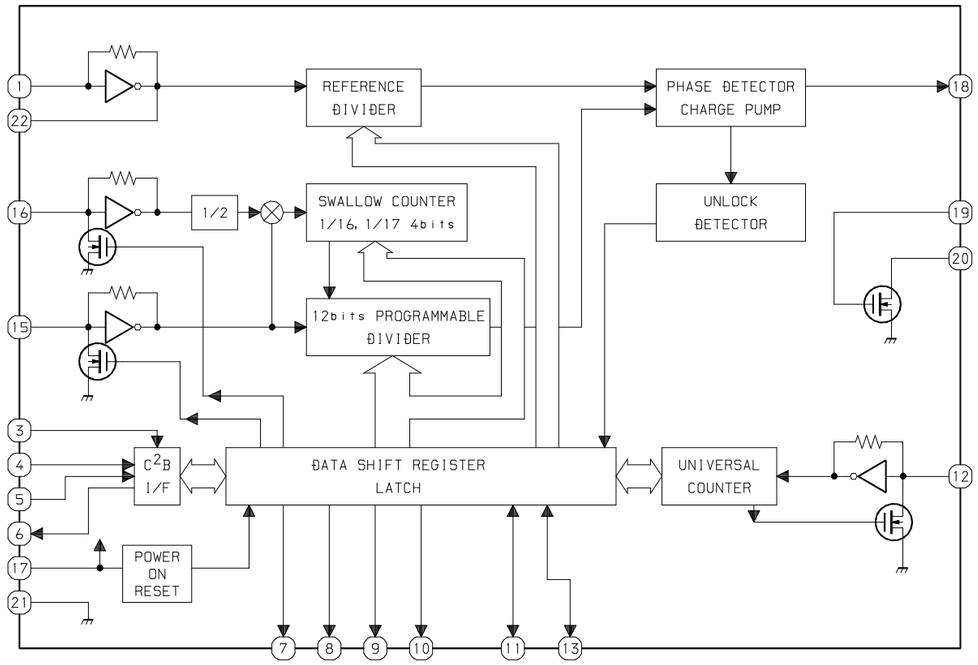


ANODE CONNECTION

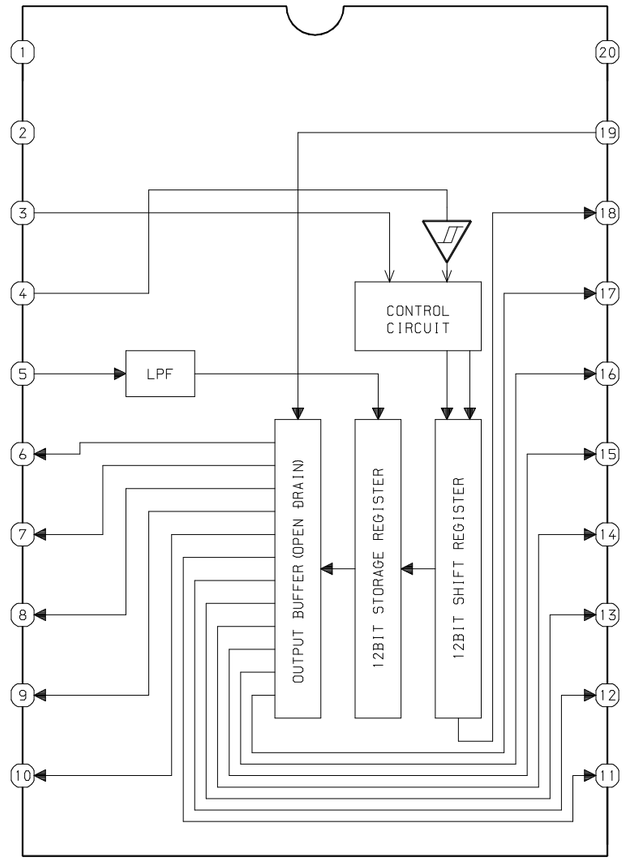
	13G	12G~2G	1G
P1		1-1	
P2	CD-R/RW REC	2-1	
P3	S2	3-1	MONO
P4	FINALIZE (右)	4-1	
P5	UN	5-1	
P6	ERASE	1-2	
P7	-	2-2	
P8	-	3-2	S6
P9	ROCK POP JAZZ	4-2	EDIT
P10	 (JAZZ)	5-2	AI
P11	 (POP)	1-3	PRGM
P12	 (ROCK)	2-3	1
P13	-	3-3	
P14	SLEEP	4-3	RANDOM
P15		5-3	1
P16	REC	1-4	2
P17	FINALIZE (左)	2-4	3
P18	AUTO	3-4	4
P19	B3	4-4	5
P20	B2	5-4	6
P21	B1	1-5	7
P22	T-BASS	2-5	8
P23	B6	3-5	9
P24	B5	4-5	10
P25	B4	5-5	11
P26	BBE	1-6	12
P27	CD-RW	2-6	13
P28	CD-R	3-6	14
P29	CD	4-6	15
P30	-	5-6	16
P31	-	1-7	17
P32	CD	2-7	18
P33	S3	3-7	19
P34	S4	4-7	20
P35	S5	5-7	S1

IC BLOCK DIAGRAM

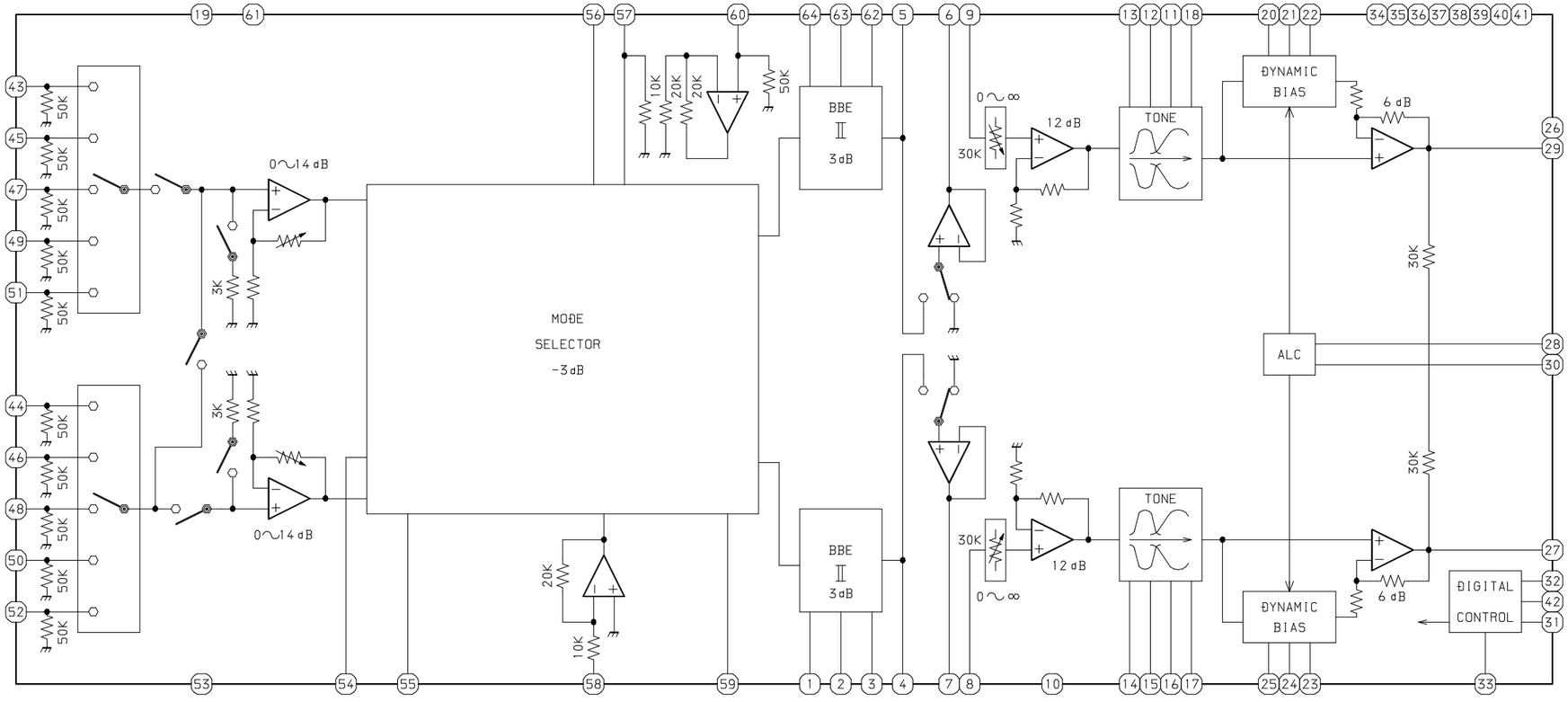
IC, LC72131Đ



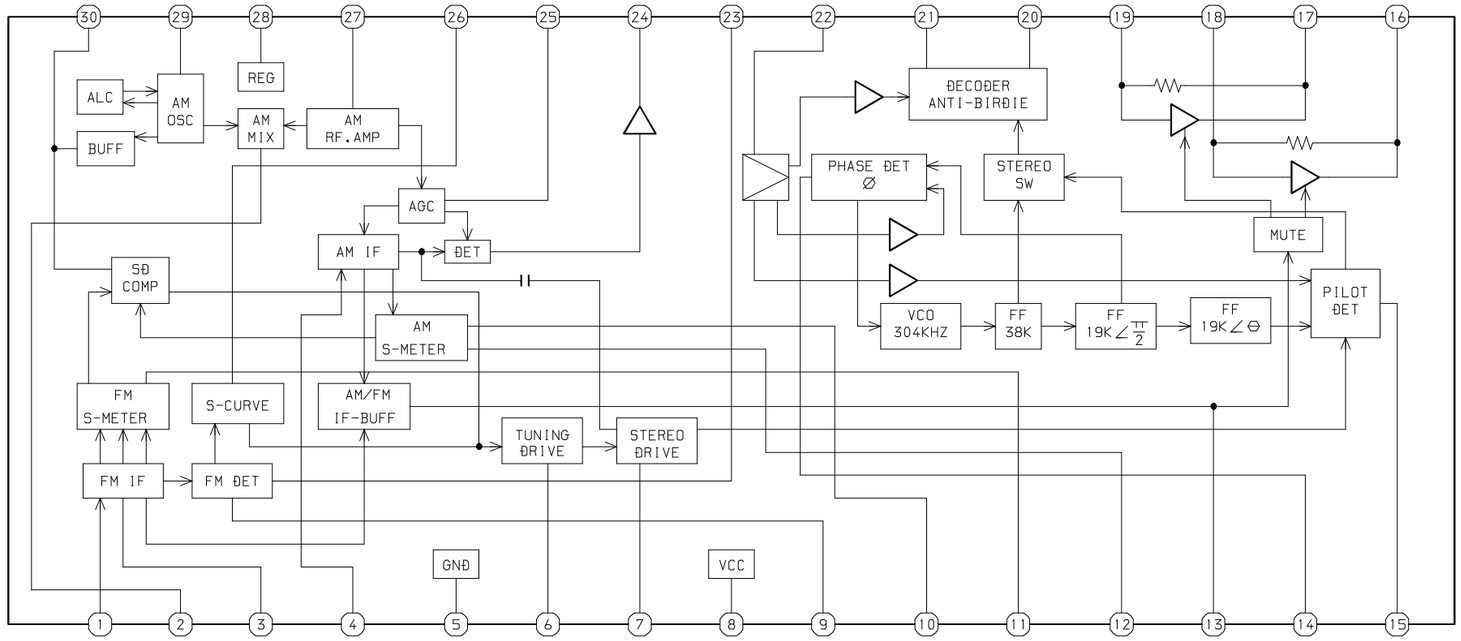
IC, BU2099FV



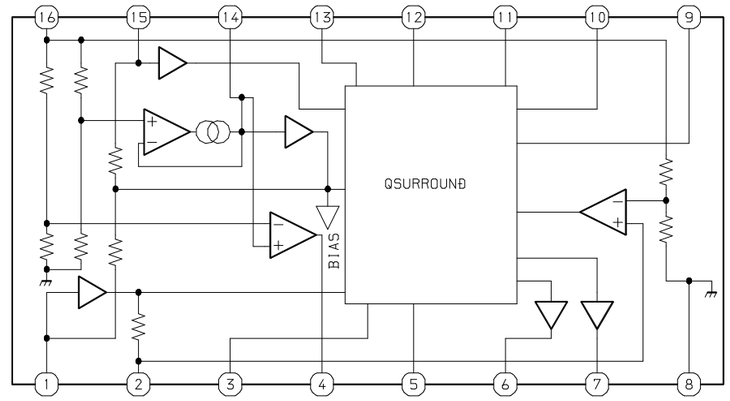
IC, BĐ3876KS2



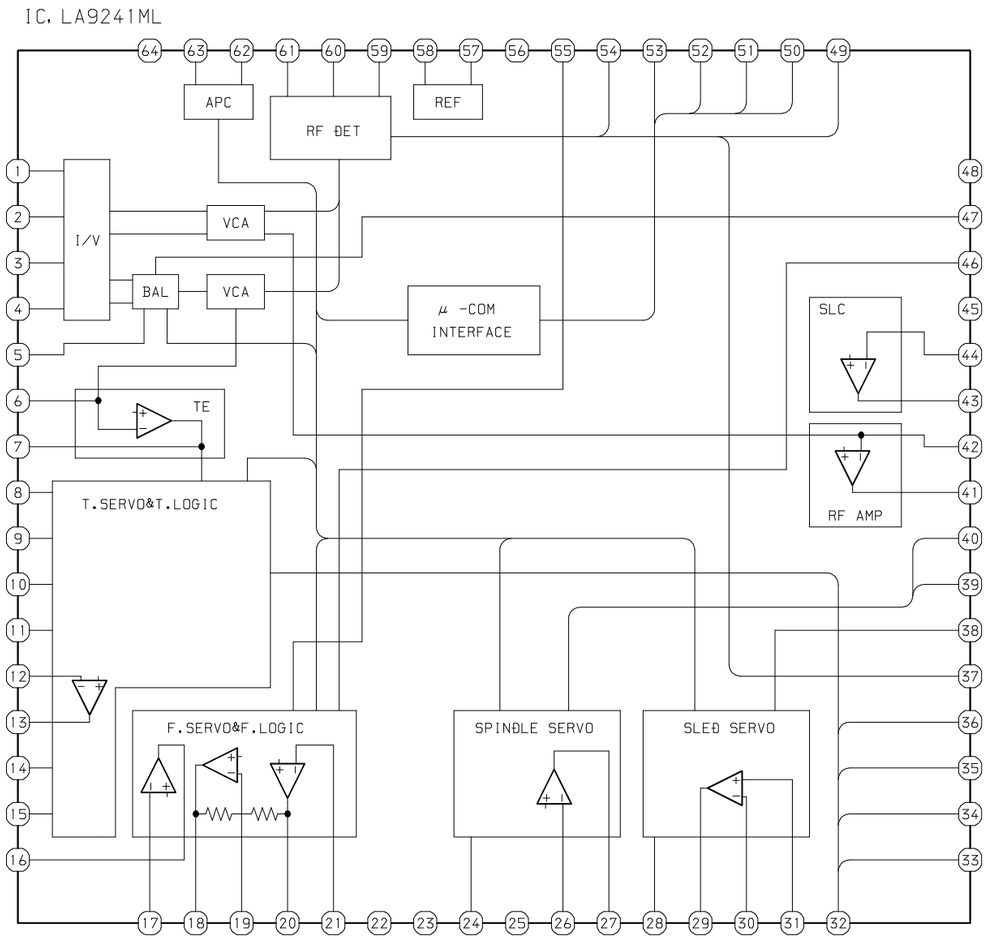
IC, LA1837NL



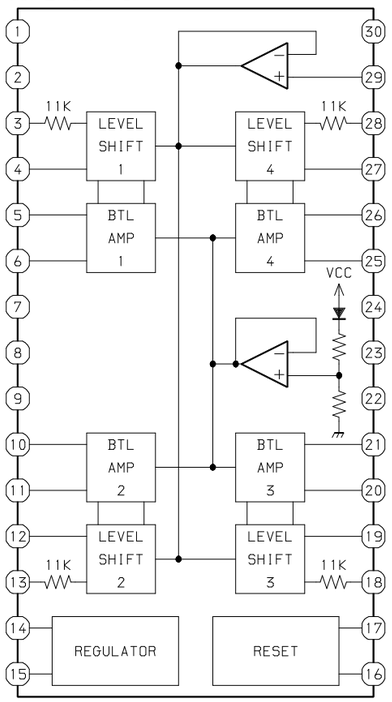
IC, MM1454XFBE



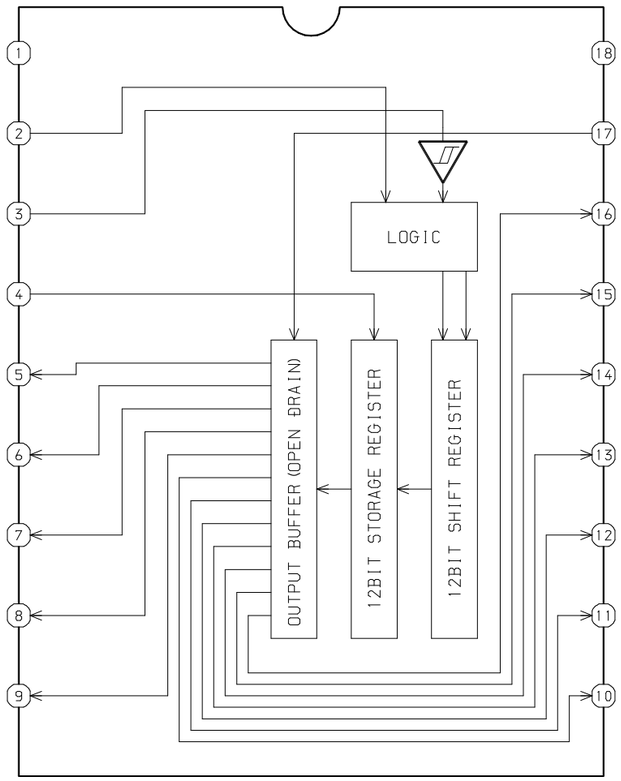
IC, LA9241ML



IC, LA6541Đ



IC, BU2092F



IC DESCRIPTION

IC, LC87F65C8AU : ACY-4

Pin No.	Pin Name	I/O	Description
1	I-DRF	I	CD ASP IC DRF data input.
2	O-BEEP	O	Buzzer control.
3	O-CD-CE	O	CD DSP IC command in data output.
4	I-SUBQ	I	CD DSP IC subcode data input.
5	I-$\overline{\text{STEREO}}$	I	Tuner stereo signal input.
6	O-CLK	O	IC control serial clock output.
7	O-DATA	O	IC control serial data output.
8	O-FUNCCE	O	FUNC IC control chip enable output.
9	O-PLL-CE	O	Tuner PLL IC control chip enable output.
10	O-CLK-SIFT	O	Micon clock shift control output. L : shift up (initial H).
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-$\overline{\text{HOLD}}$ (A/D)	I	Power failure overcharge detection input.
13	NC	–	Not connected.
14	VSS1	–	GND.
15	CF1	I	Oscillator input for system clock (9.43MHz).
16	CF2	O	Oscillator output for system clock (9.43MHz).
17	VDD1	–	Power supply.
18	NC	–	Not connected.
19	I-KEY1 (A/D)	I	Tact key A/D level input.
20	I-KEY0 (A/D)	I	Tact key A/D level input.
21	I-TUNE / IFC	I	Tuner IF count serial data input.
22	I-CD-SW	I	CD mecha switch detection input.
23	I-ENC1 (A/D)	I	Waveform input for jog rotary encoder.
24	I-ENC0 (A/D)	I	Waveform input for volume rotary encoder.
25	I-LEVEL (A/D)	I	Audio signal level detection input (for level bar, CD blank skip).
26	NC	–	Not connected.
27	I-TMBASE	I	Reference signal input for clock.
28	I-WRQ	I	CD DSP IC WRQ input.
29	I-RMC	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid output.
43 ~ 45	P35 ~ P33	O	FL segment output.
46	VDD3	–	Power supply.
47 ~ 50	P32 ~ P29	O	FL segment output.
51	VP	–	Power supply for FL input.
52 ~ 71	P28 ~ P9	O	FL segment output.
72	VDD4	–	Power supply.
73, 74	P8, P7	O	FL segment output.

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>75 ~ 78</td><td>D ~ A/P6 ~ P3</td><td>I/O</td><td>Panel face detection switch D ~ A input / FL segment output.
<table>
<tr><td colspan="2"></td><td colspan="2">SURFACE</td></tr>
<tr><td colspan="2"></td><td>ACRYLIC</td><td>OPE KEY</td></tr>
<tr><td>SWA</td><td>OFF</td><td>ON</td></tr>
<tr><td>SWB</td><td>ON</td><td>ON</td></tr>
<tr><td>SWC</td><td>OFF</td><td>OFF</td></tr>
<tr><td>SWD</td><td>ON</td><td>ON</td></tr>
</table></td></tr>
<tr><td>79, 80</td><td>P2, P1</td><td>O</td><td>FL segment output.</td></tr>
<tr><td>81</td><td>O-FUNC</td><td>O</td><td>FUNC IC expand port pull up VCC switch output.</td></tr>
<tr><td>82 ~ 84</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>85</td><td>O-$\overline{\text{KEYSCAN}}$</td><td>O</td><td>Segment input timing output. "H" = Input timing.</td></tr>
<tr><td>86</td><td>O-FSTB</td><td>O</td><td>Shift register IC control serial strobe output.</td></tr>
<tr><td>87</td><td>O-POWER</td><td>O</td><td>System power control output.</td></tr>
<tr><td>88</td><td>O-EXT-DIN</td><td>O</td><td>CD-R/RW digital input select. "H" = Ext Din, "L" = Int CD Dout.</td></tr>
<tr><td>89</td><td>VSS2</td><td>–</td><td>GND.</td></tr>
<tr><td>90</td><td>VDD2</td><td>–</td><td>Power supply.</td></tr>
<tr><td>91</td><td>O-CD-DATA</td><td>O</td><td>CD DSP IC control data output.</td></tr>
<tr><td>92</td><td>O-CD-CLK</td><td>O</td><td>CD DSP IC control clock output.</td></tr>
<tr><td>93</td><td>O-MUTE</td><td>O</td><td>Audio signal line mute control output.</td></tr>
<tr><td>94</td><td>O-CDRRES</td><td>O</td><td>CD-R/RW reset output.</td></tr>
<tr><td>95</td><td>O-SOUT</td><td>O</td><td>CD-R/RW serial data output.</td></tr>
<tr><td>96</td><td>I-SIN</td><td>I</td><td>CD-R/RW serial data input.</td></tr>
<tr><td>97</td><td>I-ACLK</td><td>I</td><td>CD-R/RW unit latch clock input.</td></tr>
<tr><td>98</td><td>I-RREQ</td><td>I</td><td>To CD-R/RW unit serial data transfer request control input.</td></tr>
<tr><td>99</td><td>O-SRDY</td><td>O</td><td>CD-R/RW unit latch data ready port control output.</td></tr>
<tr><td>100</td><td>O-SREQ</td><td>O</td><td>From CD-R/RW unit serial data transfer request control output.</td></tr>
</table>

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Internal VCO ground. Must be connected to 0V.
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. Must be connected to 0V.
9	EFMO	O	Slice level control; EFM signal output.
10	EFMIN	I	Slice level control; EFM signal input.
11	T2	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
12	CLV+	O	Disc motor control output. Three-value ouput is also possible when specified by microprocessor command.
13	CLV–		
14	V/$\overline{P}$	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output. Three-value output is also possible when specified by microprocessor command.
20	JP–		
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection ouput. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	NC	–	Not used.
27	PU IN	I	CD pickup inside limit switch.
28	CD R/W	O	Serial data command sled signal output terminal from microprocessor.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format).
32	T3	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
33	T4		
34	NC	–	Unused. Must be left open.
35	MUTEL	O	Left channel one-bit D/A converter mute output. (Not used)
36	LVDD	–	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.

Pin No.	Pin Name	I/O	Description
38	LVSS	–	Left channel one-bit D/A converter ground. Must be connected to 0V.
39	RVSS	–	Right channel one-bit D/A converter ground. Must be connected to 0V.
40	RCHO	O	Right channel one-bit D/A converter output.
41	RVDD	–	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute ouput. (Not used)
43	XVDD	–	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.934MHz crystal oscillator element.
45	XIN	I	
46	XVSS	–	Crystal oscillator ground. Must be connected to 0V.
47	SBSY	O	Subcode block synchronization signal output. (Not used)
48	EFLG	O	C1, C2 single and double error correction monitor pin. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U, V and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in the standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input. (Must be connected to 0V when unused)
52	FSX	O	Output for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Readwrite control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input. This is a Schmitt input.
58	$\overline{\text{RES}}$	I	Chip reset pin. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally outputs a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is built in. Must be connected to 0V if not controlled.
64	T1	I	Test input. No pull-down resistor. Must be connected to 0V.

ADJUSTMENT <TUNER / FRONT / CD>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   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 and AM 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

3. AM Tracking Adjustment
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • Adjustment location :
   L981 (1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L981 (1/3) so that the test point is maximum.

4. 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.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBµV.

6. AM IF Adjustment
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • Adjustment location :
   L772 ..... 450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP6 (Lch), TP7 (Rch) (Distortion)
   • 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%

< FRONT SECTION >

8. µ-CON Clock Adjustment
   Settings : • Test point : TP1 (K-SCAN), TP2 (GND)
   • Adjustment location : L201
   Method : Insert AC plug while pressing of "TUNER" key and "ERASE" function key.
   Connect a frequency counter across TP1 and TP2.
   Then adjust L201 so that the test point becomes 209.789Hz ± 0.21Hz.

< CD SECTION >

9. Focus Bias Adjustment
   Settings : • Test disc : TCD–782
   • Test point : TP1 (FE), TP5 (VREF)
   • Adjustment location : SFR130
   Method : Play back the test disc (TCD–782, Track No. 2) and adjust SFR130 so that the voltage between the test point becomes 0mV ± 10mV.

CD TEST MODE

This CD TEST MODE is only for playback type CD player. CD-R/RW type TEST MODE items are not included.

1. How to Activate CD Test Mode

1) Short circuit the S101.

2) While pressing the CD function button, insert the AC plug to the outlet. The message “CD TEST” appears on the display.

2. How to Cancel CD Test Mode

1) Exit the CD test mode by any of the following procedures.

- Press the function button (except the CD function button.)
- Press the power button.
- Disconnect the AC plug.

2) Open circuit the S101 after cancelling TEST MODE.

3. CD Test Mode functions

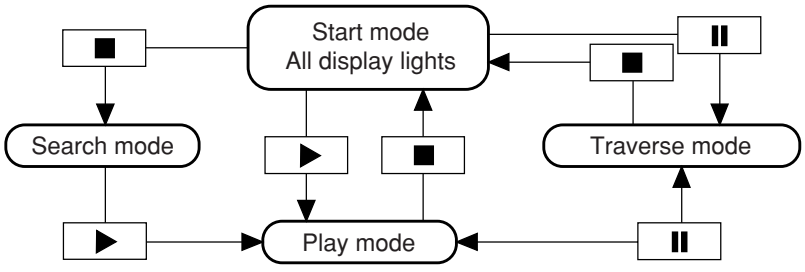
No	Mode	Operation	FL display	Operation	Checking item
1	Start mode	Activation	All lit	• Test mode is activated • CD block is power ON	• FL item • Microprocessor
2	Search mode	■	CD	• LD lights • Continuous focus search*1 • Continuous spindle kick	• APC circuit • Laser current • Focus search waveform • Focus error waveform (DRF and FZC are not monitored in the search mode)
3	Play mode	▶	Normal time display (spectrum analyzer)	• Normal playback • If TOC cannot be read, focus search of “2” is continued	• Focus servo • Tracking servo • Sled servo • Spindle servo • DRF • RF waveform
4	Traverse mode	❚❚	Normal time display	• Turning off/on repeats each time tracking servo OFF/ON ❚❚ is pressed	• Tracking servo • Traverse waveform
5	Sled mode	►► ◄◄	CD TEST	• Pickup moves to the outermost track *2 • Pickup moves to the innermost track (normal operation during playback	• Sled circuit • Mechanism

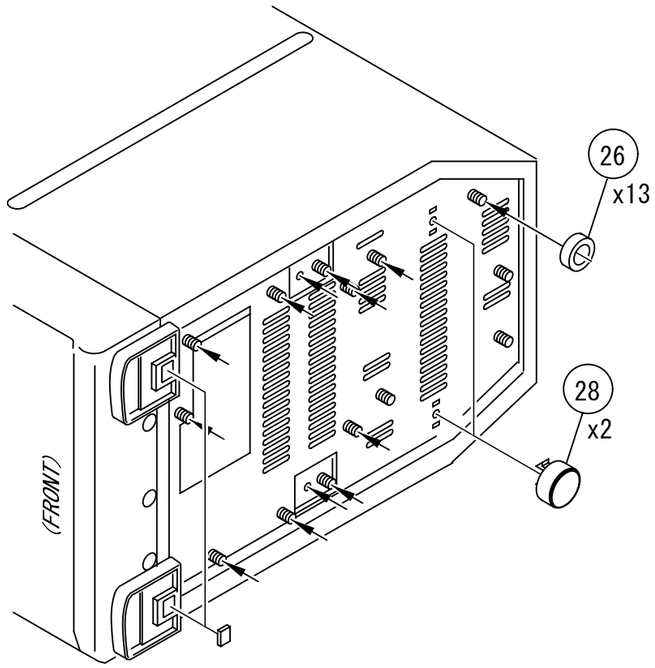
* Note 1: The driver IC (IC501) heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations cannot be performed correctly. In such a case, turn off the main power. After cooling down, restart the unit.

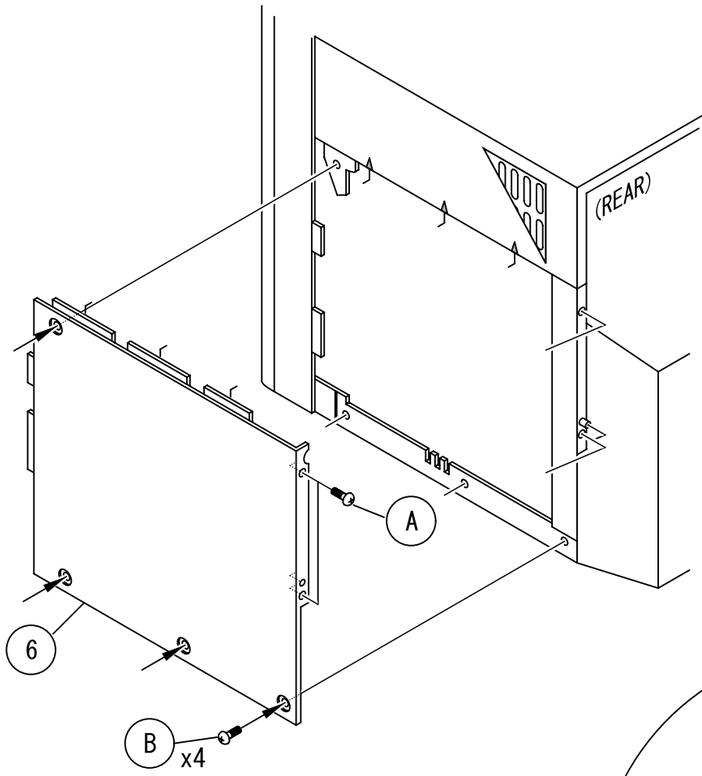
* Note 2: Be careful not to damage the gear because the sled motor rotates while the FF or FWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

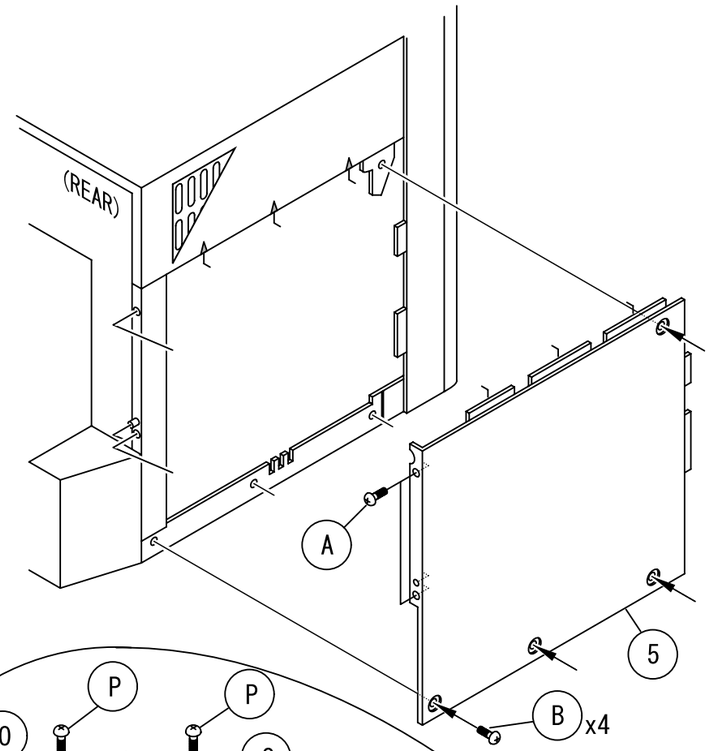
4. Overview of Operation

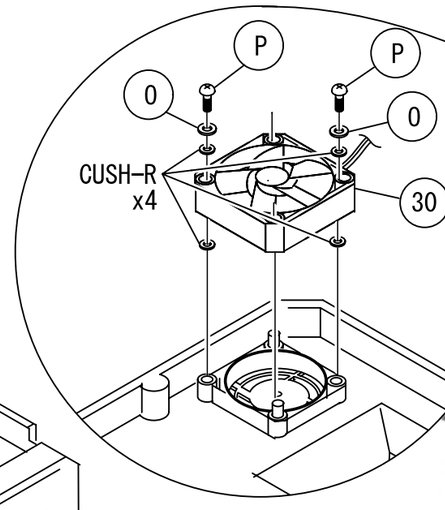
The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.

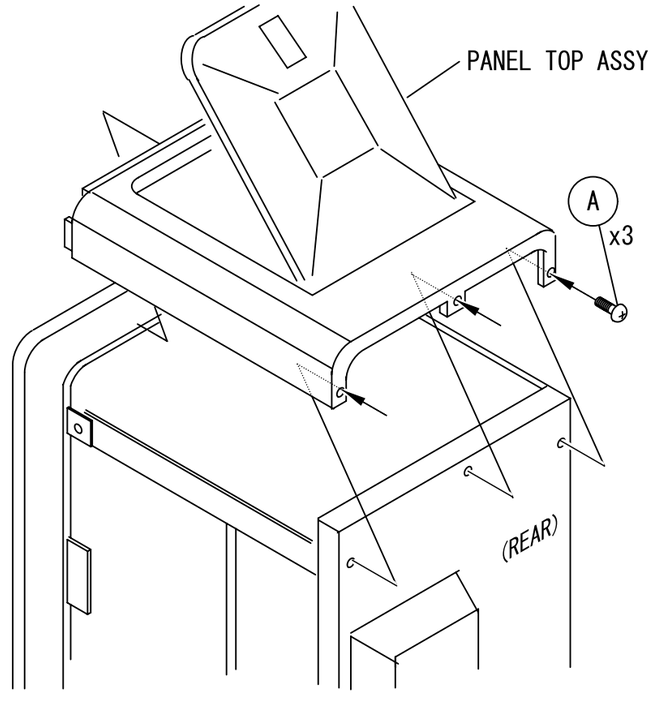


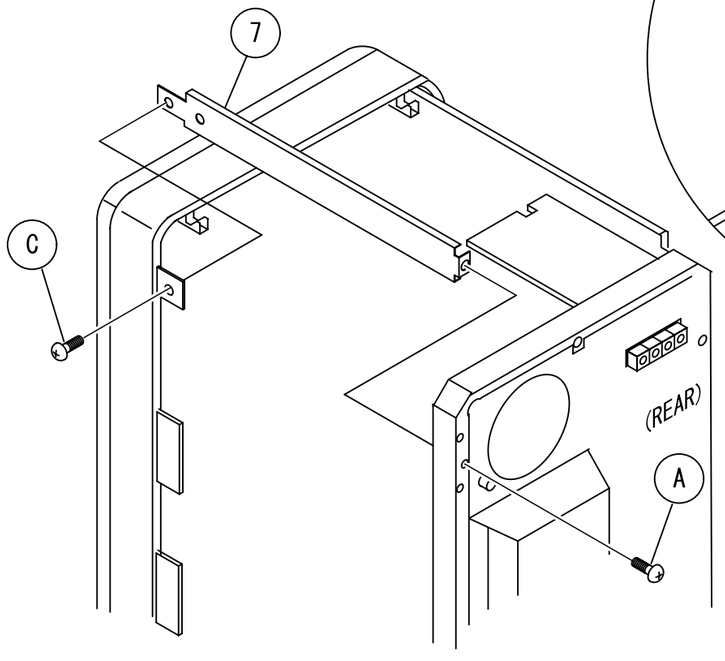

26
x13
28
x2
(FRONT)

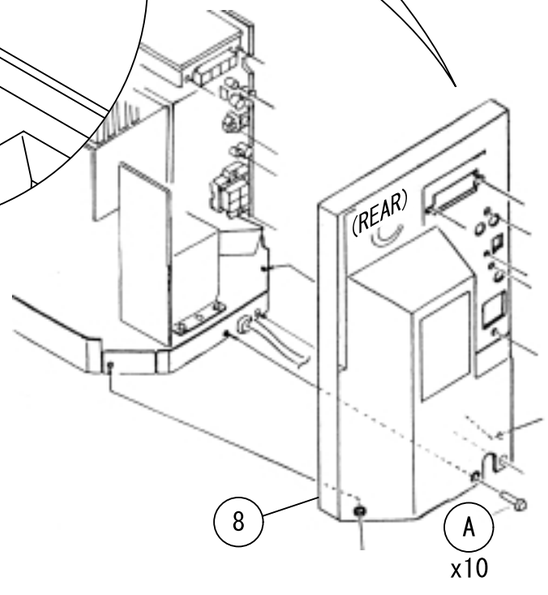

(REAR)
A
6
B
x4

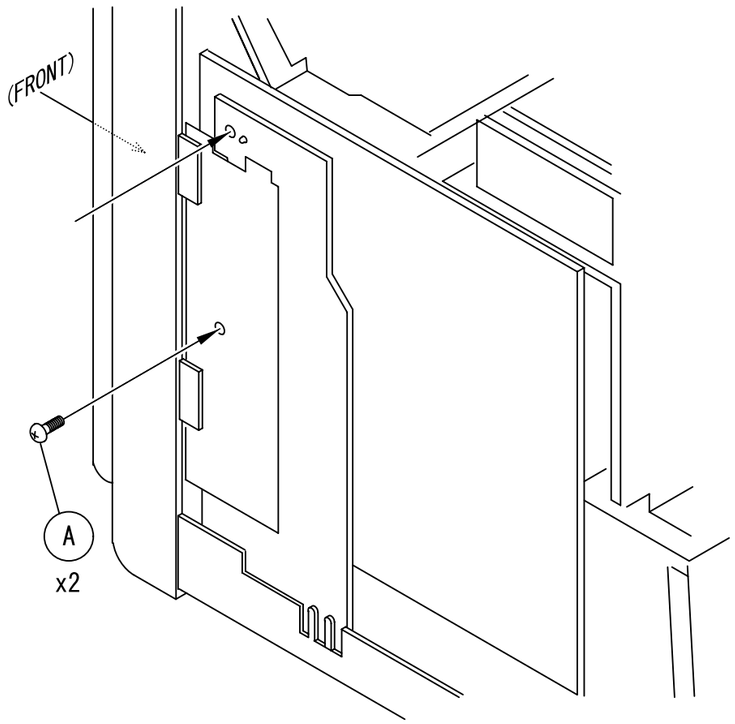

(REAR)
A
5
B
x4

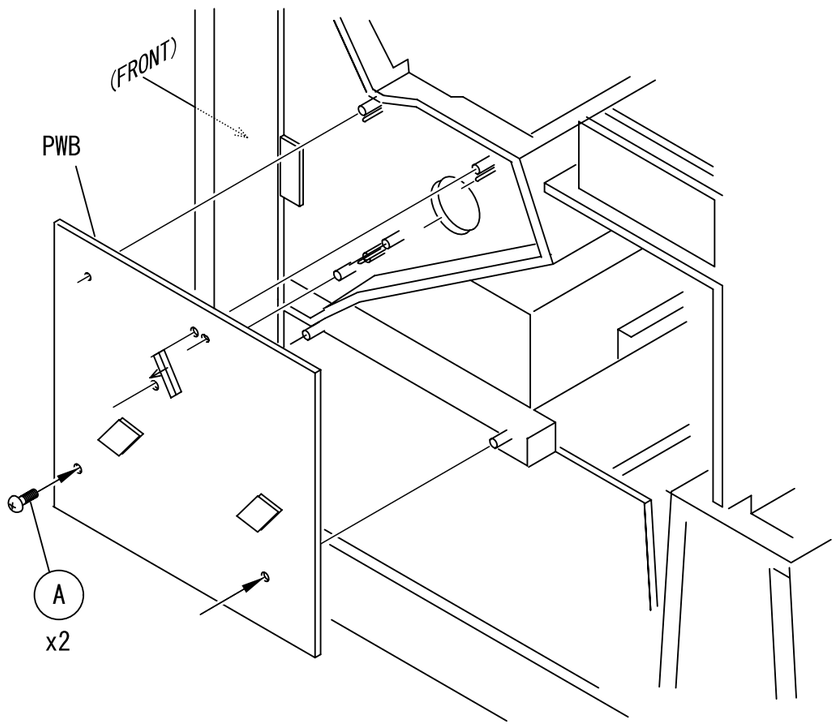

P
P
0
0
CUSH-R
x4
30

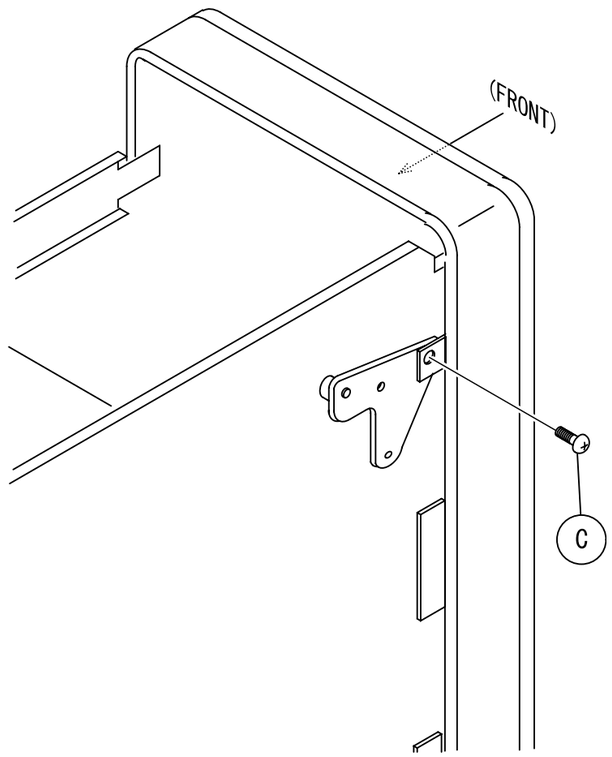

PANEL TOP ASSY
A
x3
(REAR)

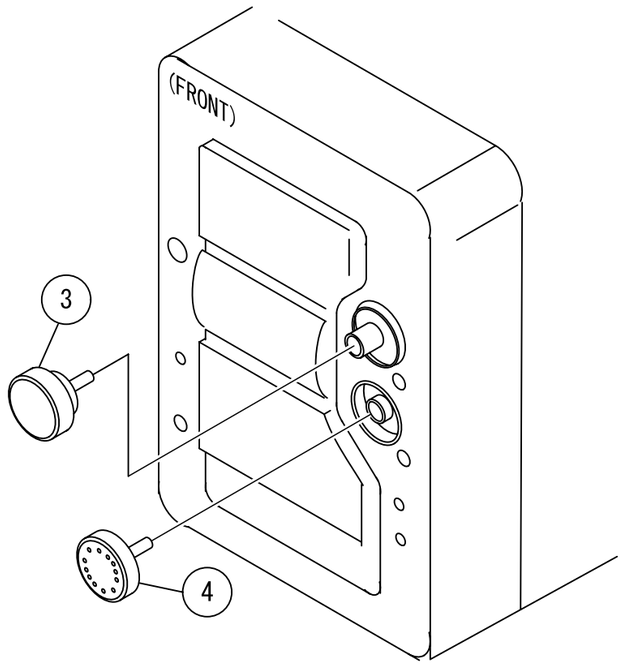

7
C
(REAR)
A

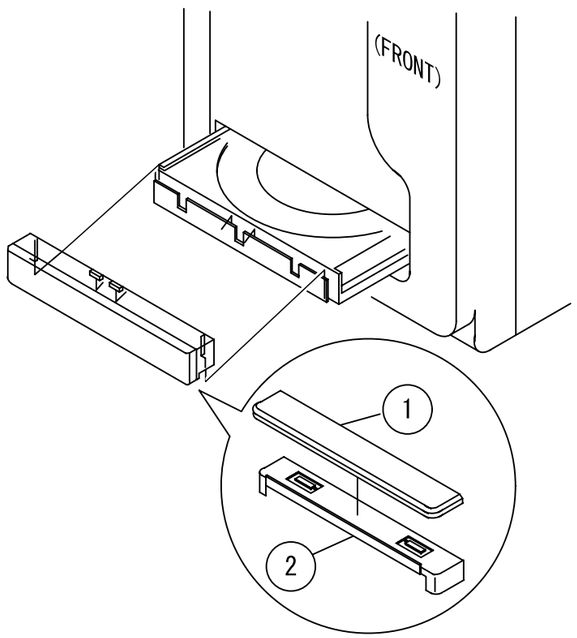

(REAR)
8
A
x10

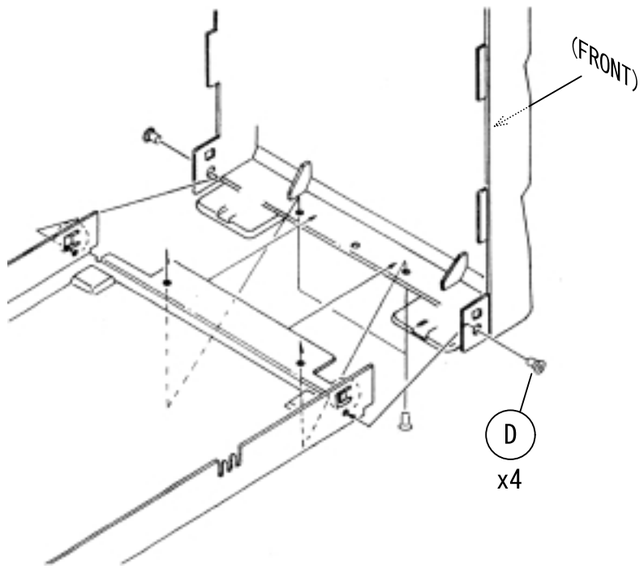

(FRONT)
A
x2

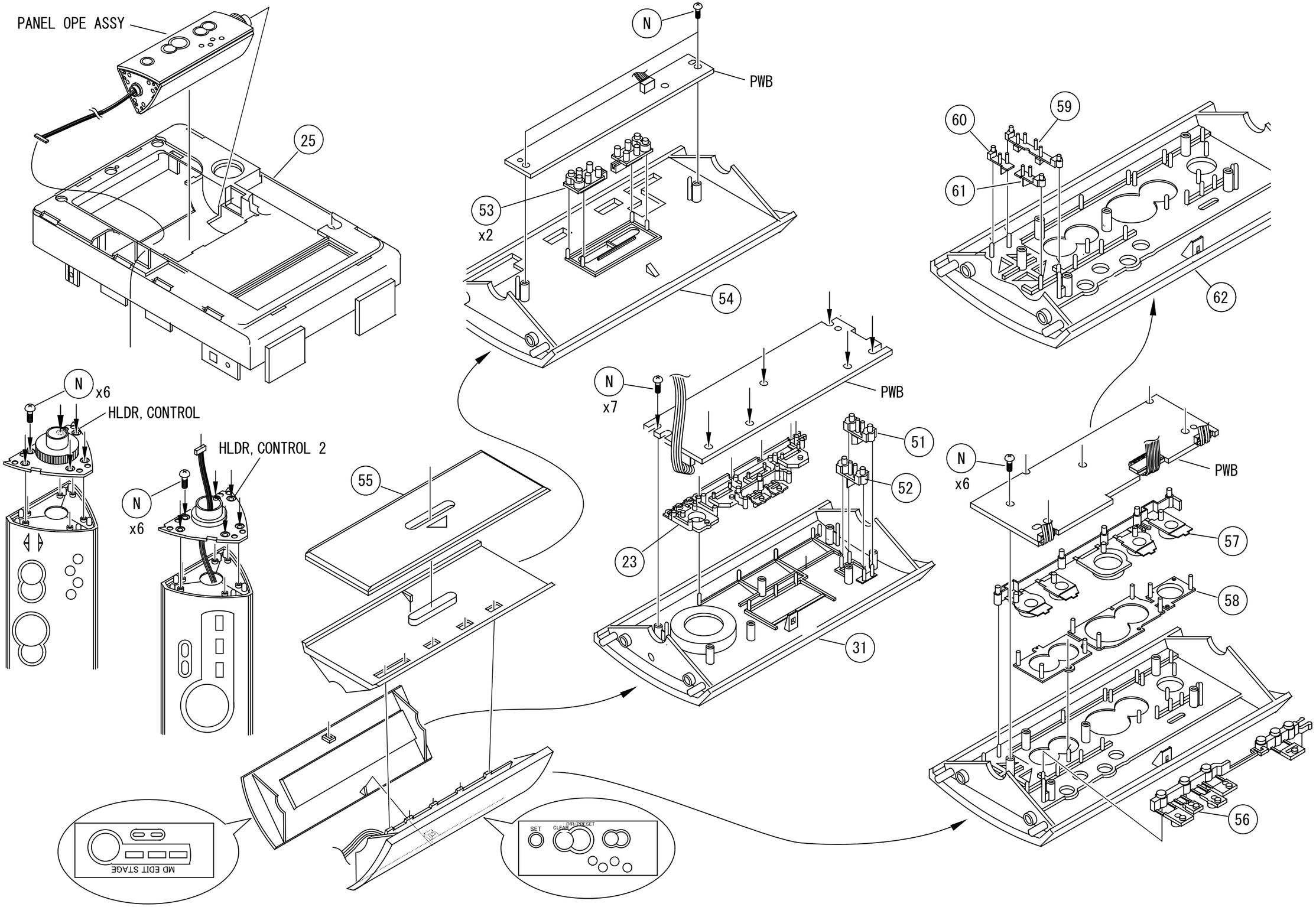

(FRONT)
PWB
A
x2

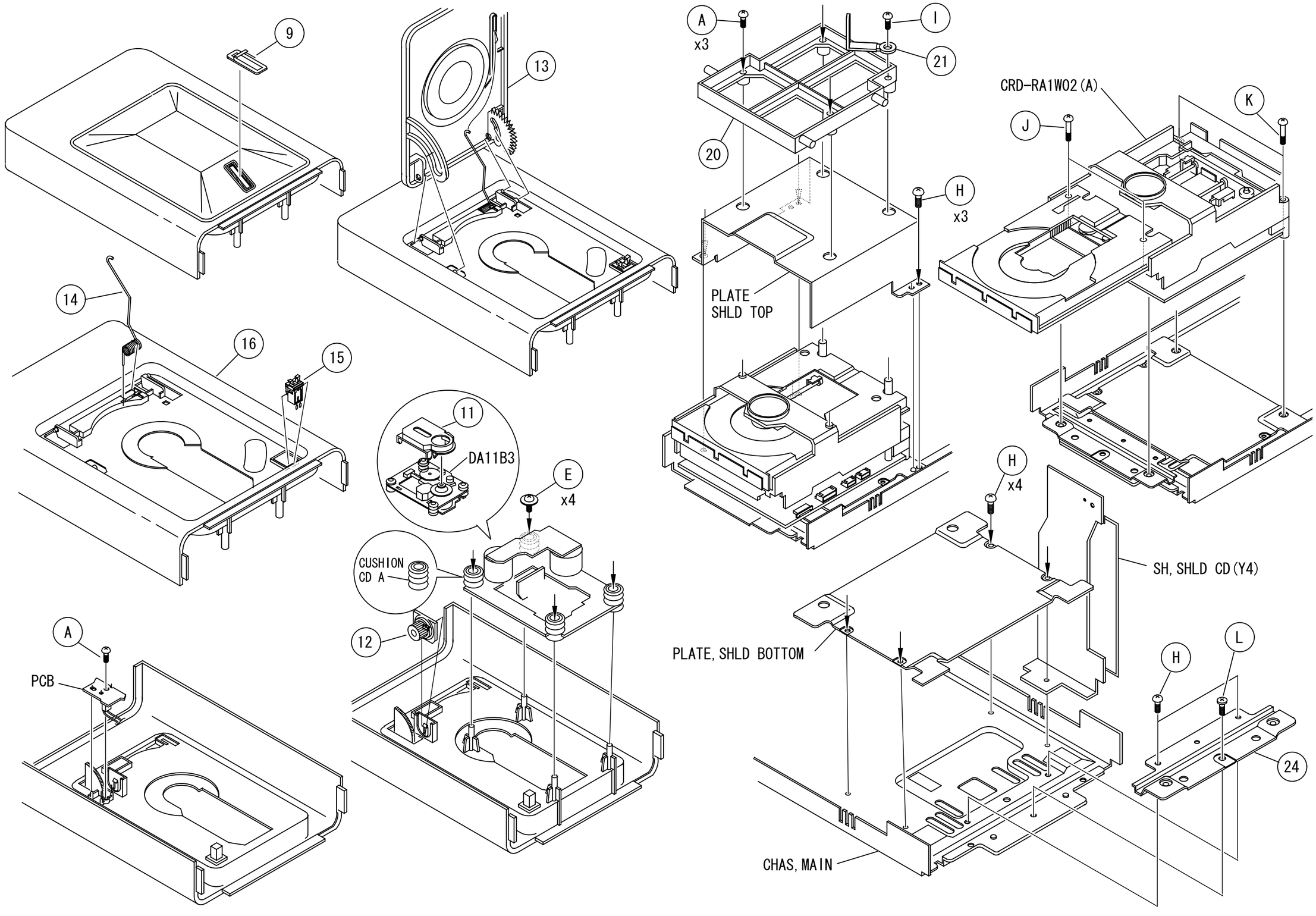

(FRONT)
C

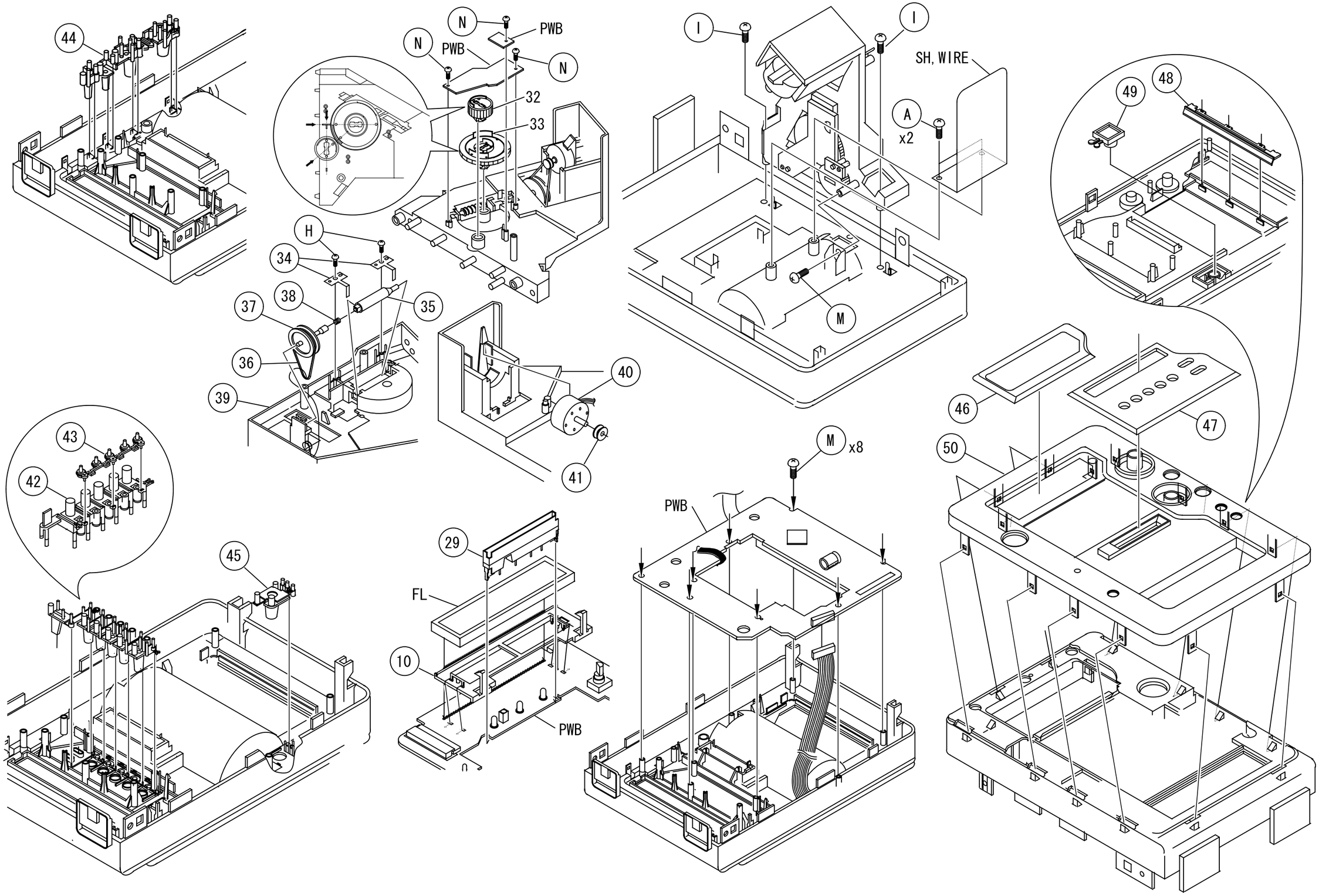

(FRONT)
3
4

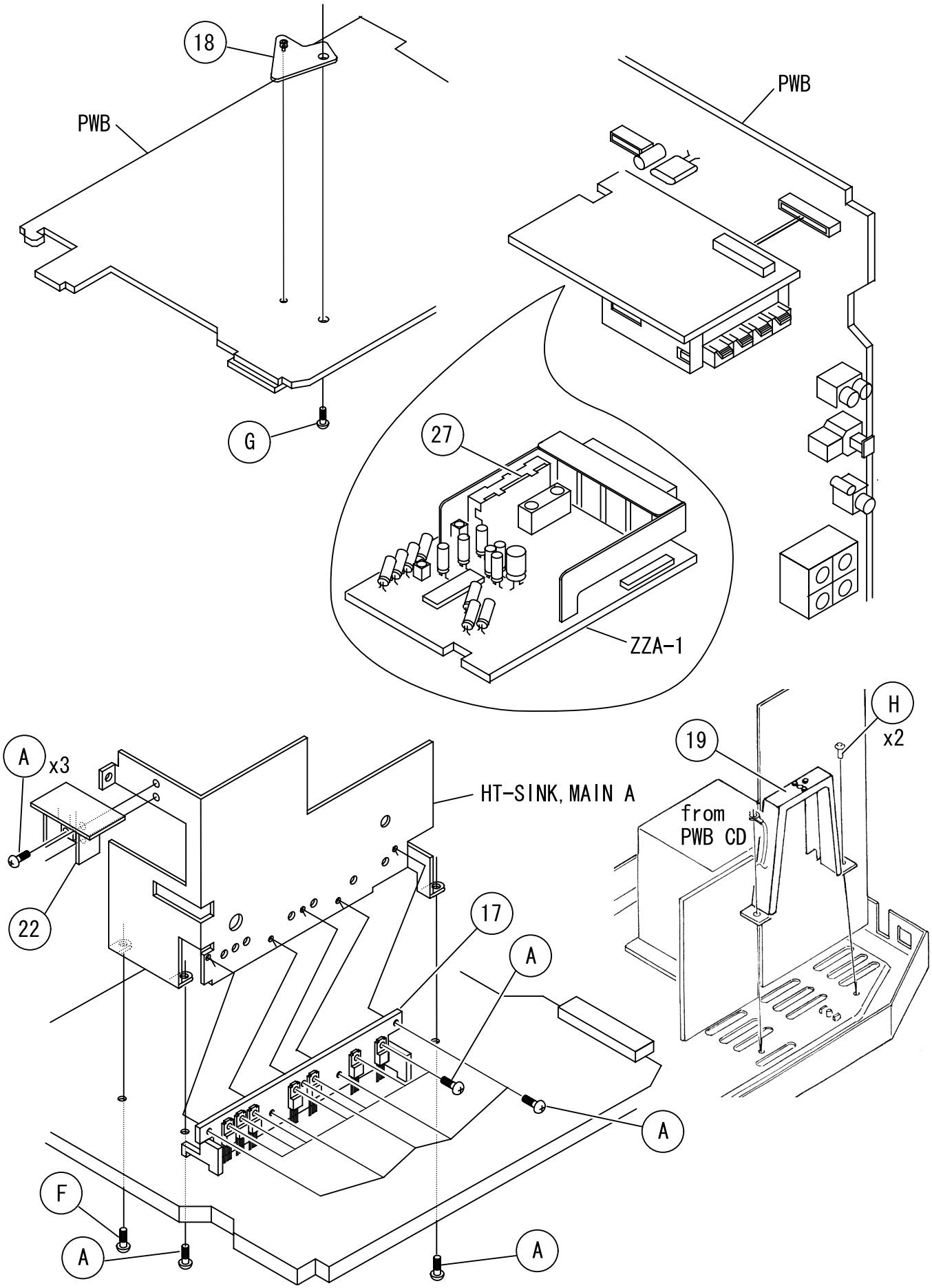

(FRONT)
1
2


(FRONT)
D
x4


PANEL OPE ASSY
25
N
x6
HLDR, CONTROL
HLDR, CONTROL 2
N
x6
55
MD EDIT STAGE
SET
CLEAR
DIR/PRESET
N
PWB
53
x2
54
N
x7
PWB
51
52
23
31
60
59
61
62
N
x6
PWB
57
58
56


9
13
A
x3
I
21
20
H
x3
PLATE
SHLD TOP
CRD-RA1W02(A)
J
K
14
16
15
11
DA11B3
E
x4
CUSHION
CD A
12
A
PCB
H
x4
SH, SHLD CD(Y4)
PLATE, SHLD BOTTOM
H
L
24
CHAS, MAIN


44
N
PWB
N
PWB
N
32
33
I
I
SH, WIRE
A
x2
M
49
48
H
34
38
37
35
36
39
40
41
43
42
45
29
FL
10
PWB
M
x8
PWB
46
47
50


18
PWB
PWB
G
27
ZZA-1
A
x3
22
HT-SINK, MAIN A
17
A
A
A
A
F
19
H
x2
from
PWB CD

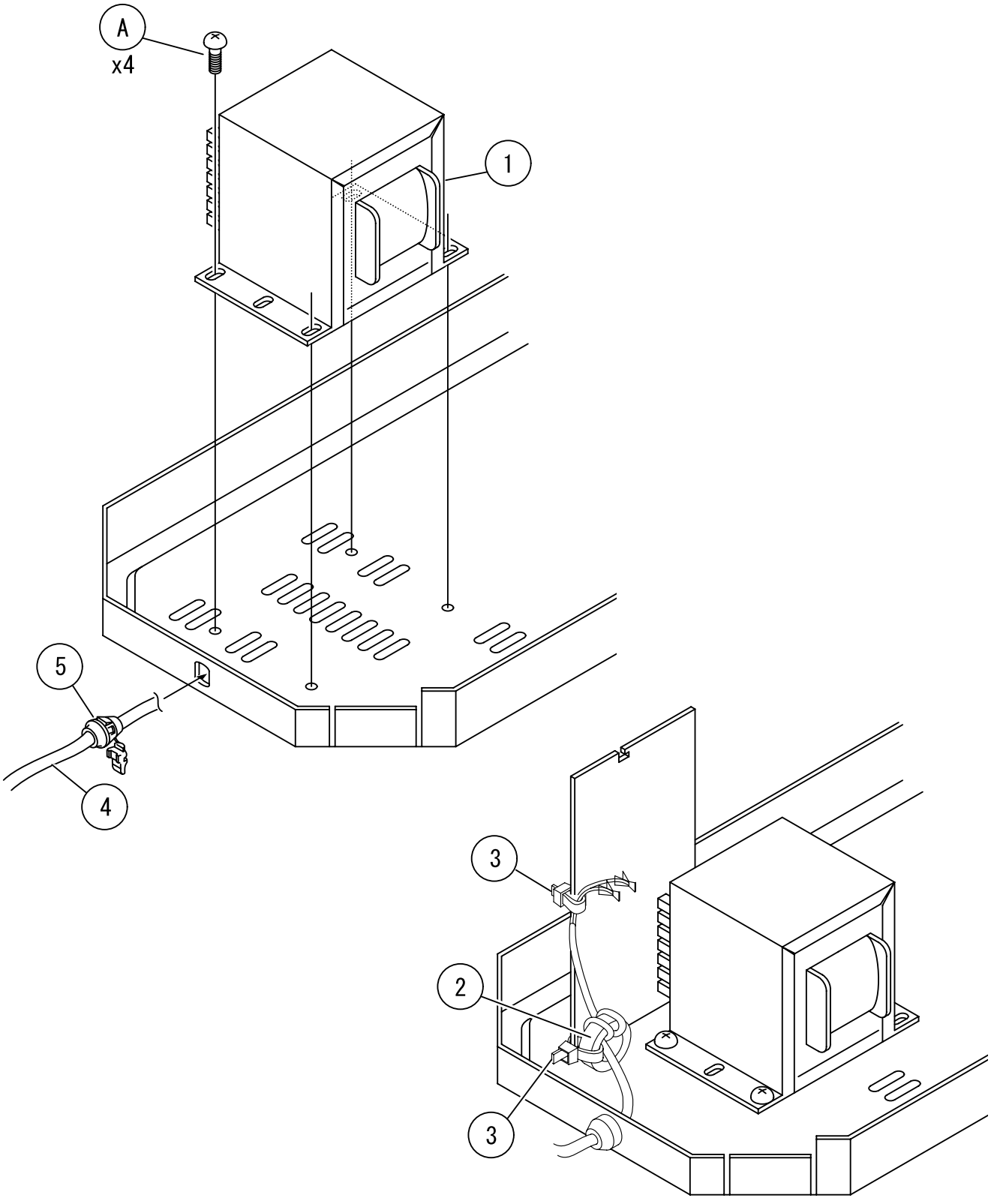
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CY4-007-010		WINDOW,TRAY
2	8A-CY4-004-010		PANEL,TRAY
3	8A-CY4-026-010		KNOB,RTRY MAIN (Y4)
4	8A-CJ4-017-010		KNOB,RTRY JOG
5	8A-CY4-013-010		PANEL,SIDE L(U)
6	8A-CY4-014-010		PANEL,SIDE R(U)
7	8A-CJ4-239-010		HLDR,CABI JOINT
8	8A-CY4-012-010		CABI,REAR(U)
9	8A-CY4-005-010		WINDOW,LID CD
10	8A-CJ4-201-010		GUIDE,FL
11	8Z-CDB-169-010		PANEL,CD SANYO
12	87-NF8-220-010		DMPR,150
13	8A-CY4-030-010		LID,CD(U)
14	8A-CY4-203-010		SPR-T,CD
15	87-036-389-010		SW,PUSH 1-1-1 R8120125
16	8A-CY4-027-010		PANEL,TOP(U)
17	8A-CJ4-202-010		HLDR,TR EX
18	8A-CJ4-219-010		HLDR,PWB(MOLD)
19	8A-CJ4-210-110		HLDR,HT-SINK
20	8A-CY4-201-010		HLDR,PWB CD
21	87-064-185-010		HLDR,WIRE PVC 0.5
22	8A-CJ5-219-010		HLDR,TR B
23	8A-CJ4-043-010		KEY,MD EDIT
24	8A-CY4-202-010		HLDR,CD MECHA
25	8A-CY4-011-010		CABI,FR(U)
26	8Z-CE3-206-010		CUSH,PL 9.2-4.2-5
27	A8-6ZA-19C-170		6ZA-1 YFEENC
28	8A-CJ4-080-010		FOOT ASSY,H10
29	8A-CJ4-204-010		GUIDE,LED CONTROL
30	87-A90-796-010		FAN,F614R-12MC-19-240MM
31	8A-CY4-025-010		PANEL,OPE 3 (Y4)
32	8A-CJ4-203-110		GEAR,OPE 1
33	8A-CJ4-205-110		GEAR,WORM-WHEEL
34	86-ZG1-232-010		SPR-P,WORM
35	84-ZG1-256-010		GEAR,WORM N2
36	86-ZG1-225-010		BELT,SQ1.2-32.9
37	86-ZG1-221-010		PULLEY,TT
38	86-ZG1-231-010		SPR-C,WORM
39	8A-CJ4-206-210		HLDR,GEAR
40	87-A90-036-010		MOT ASSY,RF-300CA-11440
41	81-ZG1-212-010		PULLY,LOAD MO(*)
42	8A-CY4-017-010		KEY,FUN(Y4)
43	8A-CJ4-029-010		REFLECTOR,FUN
44	8A-CJ4-020-010		KEY,JOG
45	8A-CJ4-041-010		KEY ASSY,POWER
46	8A-CL4-039-010		WINDOW,DISPLAY (L4) EZ
47	8A-CY4-006-010		WINDOW,FUN
48	8A-CJ4-046-010		REFLECTOR,CONTROL
49	8A-CJ4-042-010		WINDOW,SENSOR
50	8A-CY4-001-010		PANEL,FR
51	8A-CJ4-030-010		KEY,OPEN 3B
52	8A-CJ4-031-010		KEY,OPEN 3
53	8A-CJ4-027-010		KEY,OPEN 1
54	8A-CY4-024-010		PANEL,OPE 1 (Y4)
55	8A-CL4-040-010		WINDOW,OPE(L4) EZ
56	8A-CJ4-032-010		KEY,REC
57	8A-CY4-020-010		KEY ASSY,PLAY(Y4)
58	8A-CY4-021-010		RING,PLAY(Y4)
59	8A-CJ4-028-010		KEY,OPEN 2
60	8A-CJ4-047-010		KEY,OPEN 2B
61	8A-CJ4-048-010		KEY,OPEN 2C
62	8A-CY4-015-010		PANEL,OPE 2 (Y4)
A	87-067-703-010		BVT2+3-10 W/0 SL0T
B	87-067-660-010		BVT2+3-8 W/0 SL0T BLK
C	87-721-095-410		QT2+3-8 W/O SL0T
D	87-591-095-410		QIT+3-8
E	8Z-CK5-222-010		S-SCREW,CD+2.6-6 F9
F	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
G	87-067-579-010		BVT2+3-8 W/0 SL0T
H	87-067-584-010		BVT2+3-6 W/0 SL0T
I	87-067-581-010		BVT2+3-15 W/0 SL0T
J	87-067-873-010		BVT2+3-25 W/0 SL0T
K	87-B10-069-010		BVT2+3-35 W/O
L	87-741-094-410		UT2+3-6 W/O SLOT
M	87-078-060-010		BVIT3B+3-10
N	87-067-868-010		V+1.7-4 BLK HL
O	87-WA5-253-010		W,3.3-10-0.8
P	87-067-822-010		BVT2+3-20 W/0 SL0T

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
LA	Aqua Blue				

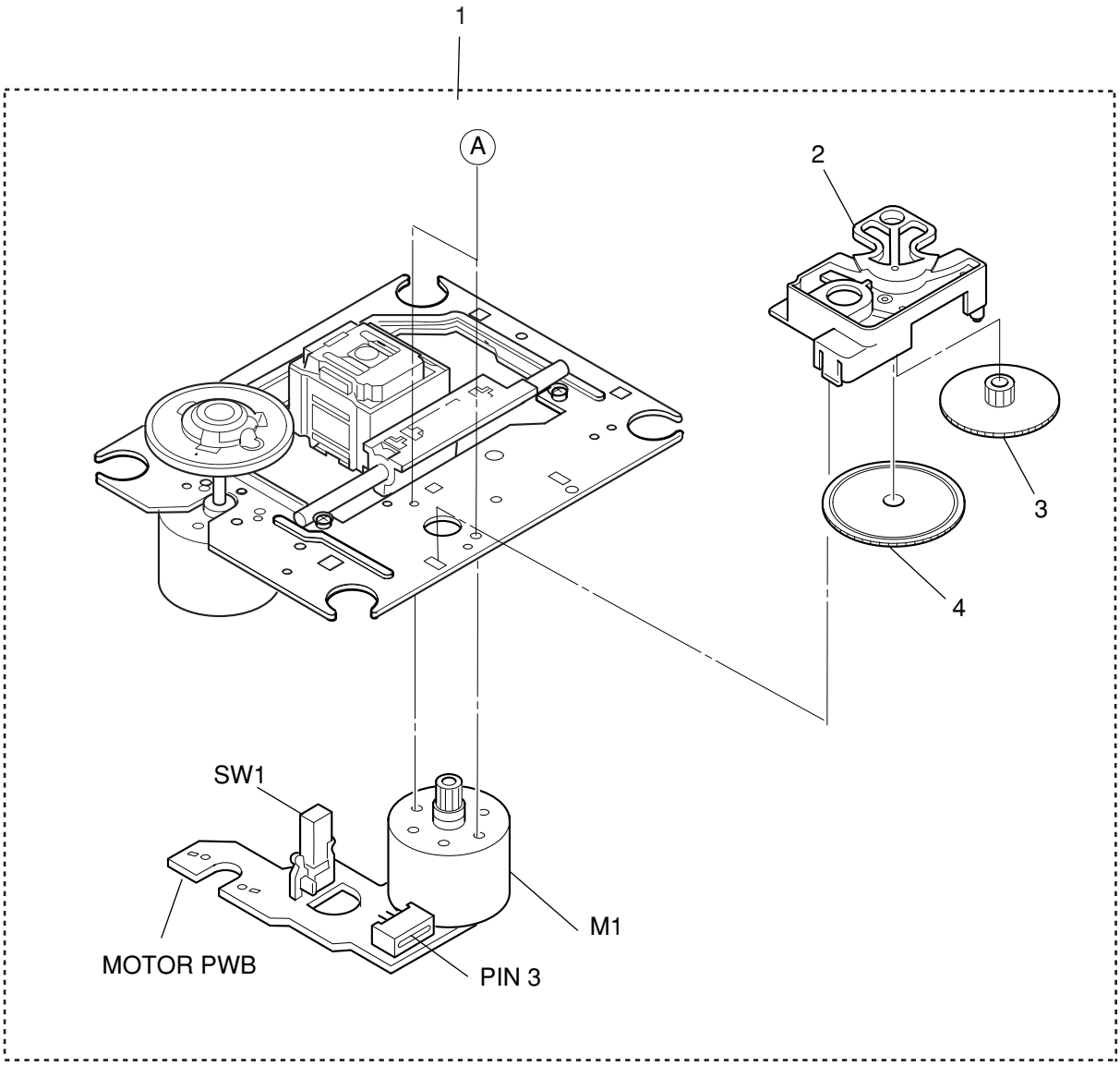
POWER BLOCK PARTS ARRANGEMENT 1 / 1



POWER BLOCK PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ 1	8A-CJ4-607-010		PT,U ACJ-4
2	87-003-317-010		F-BEAD,15-25-15 E2515MRT
3	87-A90-193-010		HLDR,CV100 (B)
⚠ 4	87-A80-110-010		AC CORD ASSY,U SPT-2W
5	87-085-189-010		BUSHING,AC CORD(U) CM-22C
A	87-067-585-010		BVTT+4-6

CD MECHANISM EXPLODED VIEW 1 / 1



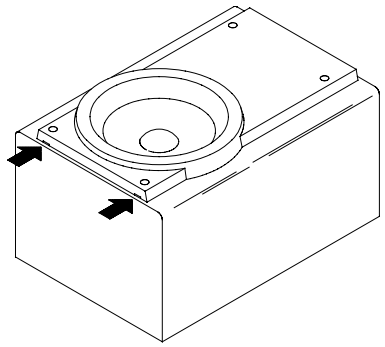
CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	M8-AZK-M90-070		DA11B3
2	S2-121-A28-400		COVER GEAR
3	S2-511-A21-000		GEAR MIDDLE
4	S2-511-A21-100		GEAR,DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

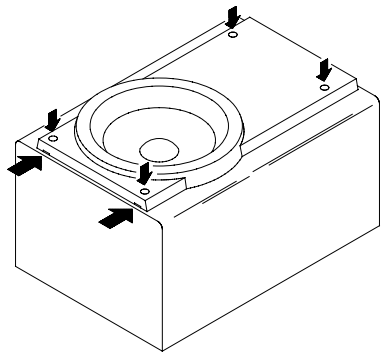
Type.1

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.



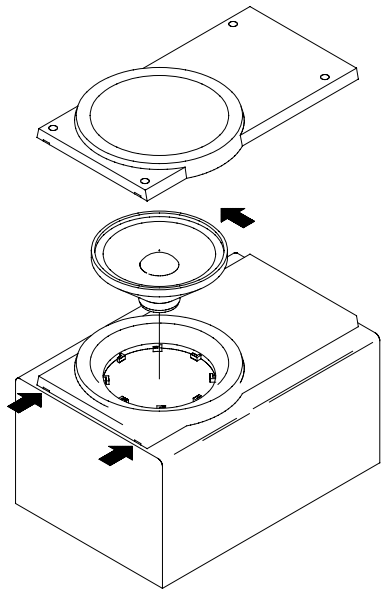
Type.2

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.

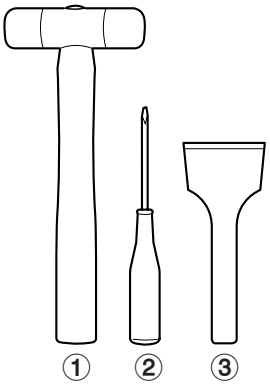


Type.3

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



Type.4



TOOLS

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

How to Remove the PANEL, FR

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

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

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

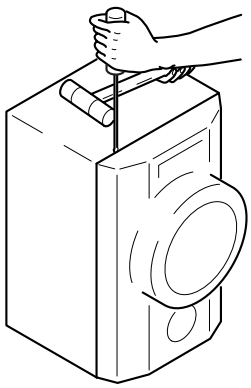


Fig-1

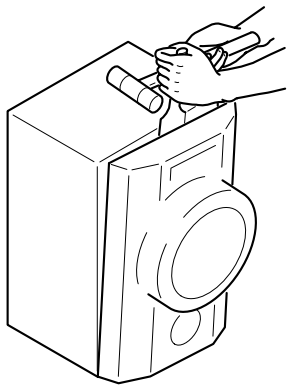


Fig-2

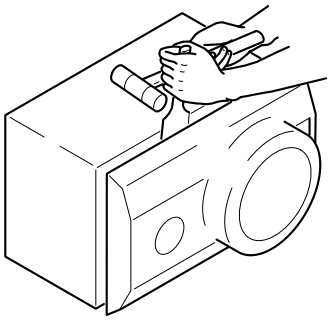


Fig-3

How to Attach the PANEL, FR

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

SPEAKER PARTS LIST <SX–M510>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CY4-402-010		CABI,B
2	8A-CY4-403-010		PANEL,FR B
3	8A-CY4-404-010		PANEL,SP B
4	8A-CJ4-405-010		PANEL,RING TW
5	8A-CY4-405-010		GRILLE,FRAME ASSY G
6	8A-CY4-406-010		SPKR, W 130
7	8A-CJ5-417-010		SPKR, TW 25
8	8A-CJ4-501-010		CORD,SP

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CY4-903-110		IB,U(ESF)I
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT,FEEDER FM
4	8A-CY4-951-110		RC UNIT,RC-AAT16

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