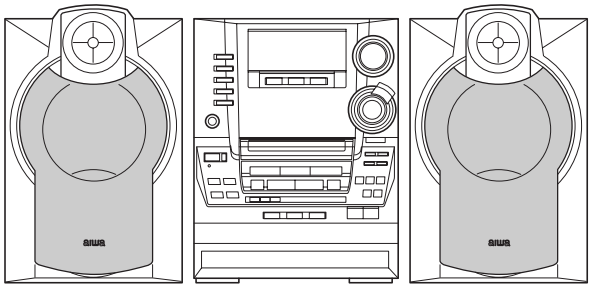
XR-H560MD EZ,K



SERVICE MANUAL

MD / CD STEREO SYSTEM

BASIC TAPE MECHANISM : 6ZM-1 AR3
BASIC CD MECHANISM : 4ZG-1 Z3RNSMDJM
BASIC MD MECHANISM : ZZG-6 D

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-993-412-1T2).

SYSTEM	CD–CASSEIVER	SPEAKER
XR-H560MD	CX-NH560MD	SX-WNH898

If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No.09-992-325-4N2.

S/M Code No. 09-993-412-1R2

REVISION DATA

TABLE OF CONTENTS

SPECIFICATIONS

Main unit CX-NH560MD

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	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 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

Mid-high frequency amplifier

Power output*	Rated: 15 W + 15 W (6 ohms, T.H.D. 1%, 200 Hz to 20 kHz/DIN 45500) Reference: 18 W + 18 W (6 ohms, T.H.D. 10%, 200 Hz to 20 kHz/DIN 45324) EZ MODEL: DIN MUSIC POWER: 35 W + 35 W
Total harmonic distortion	0.06 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)

Low frequency amplifier

Power output*	Rated: 50 W + 50 W (6 ohms, T.H.D. 1%, 50 Hz to 200 Hz/DIN 45500) Reference: 62 W + 62 W (6 ohms, T.H.D. 10%, 50 Hz to 200 Hz/DIN 45324) EZ MODEL: DIN MUSIC POWER: 92 W + 92 W
Total harmonic distortion	0.06 % (20 W, 135 Hz, 6 ohms, DIN AUDIO)

* without connecting to the SURROUND SPEAKERS

Inputs	VIDEO/AUX: 316 mV DIGITAL IN
Outputs	SPEAKERS: LOW FREQ: accept speakers of 6 ohms HIGH FREQ: accept speakers of 6 ohms SURROUND SPEAKERS: accept speakers of 8 to 16 ohms PHONES (stereo jack): accepts headphones of 32 ohms or more CD DIGITAL OUT (OPTICAL) jack

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 - 900 rpm (CLV)
Sampling frequency	44.1 kHz
No. of channels	Stereo: 2 channels Monaural: 1 channel
A-D, D-A converter	1-bit
Frequency	20 to 20000 Hz +0.5 - –1.5 dB
Wow and flutter	Unmeasurable

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz to 15000 Hz
Recording system	AC bias
Heads	Recording/playback head × 1, erase head × 1

General

Power requirements	230 V AC, 50 Hz
Power consumption	150 W
Standby power consumption	1.5 W (power-economizing mode set to ON)
Dimensions of main unit (W × H × D)	260 × 324 × 387 mm
Weight of main unit	10.1 kg

Speaker system SX-WNH898

Cabinet type	3 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 160 mm cone type Full range: 120 mm cone type Super tweeter: 20 mm ceramic type
Impedance	LOW FREQ: 6 ohms HIGH FREQ: 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	240 × 324 × 246 mm
Weight	5.6 kg

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

ACCESSORIES/PACKAGE LIST

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

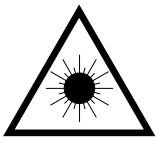
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NB6-905-010		IB,K(E)I<KS>
1	8Z-NB6-906-010		IB,EZ(9L)I<EZS>
2	87-A90-030-010		ANT,LOOP AM-NC C
3	87-043-106-010		WIRE, FM ANT (Z)
4	8Z-NB5-703-010		RC UNIT,RC-ZAS18

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!

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



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

VAROITUS!

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

VARNING!

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

CAUTION

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

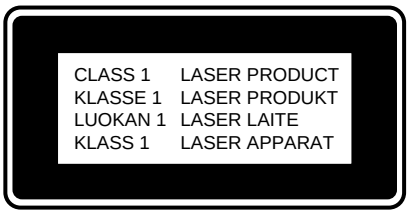
ATTENTION

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

ADVARSEL!

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

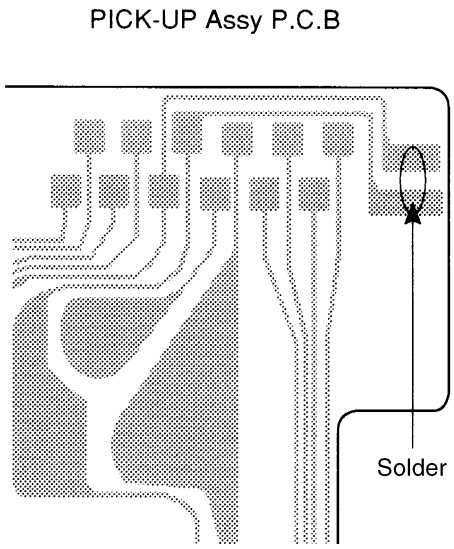
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS-213F)

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

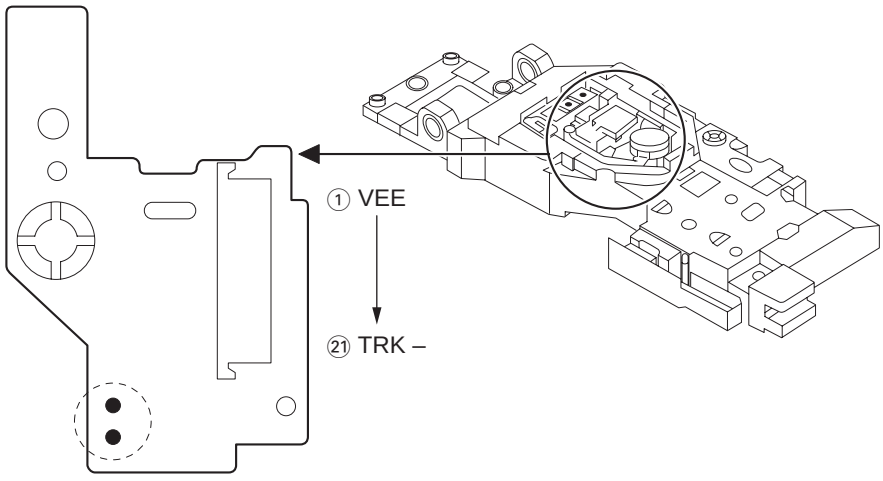
1) After the connection, remove solder shown in the right figure.



Precaution to replace Optical block (KMS-260A)

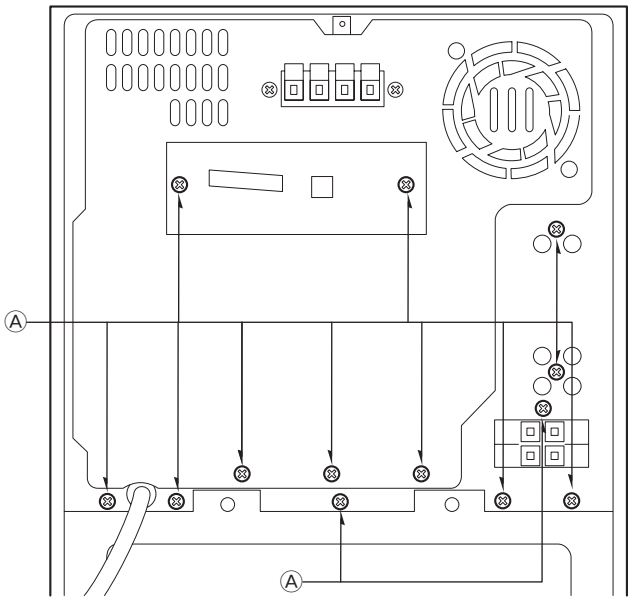
Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

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



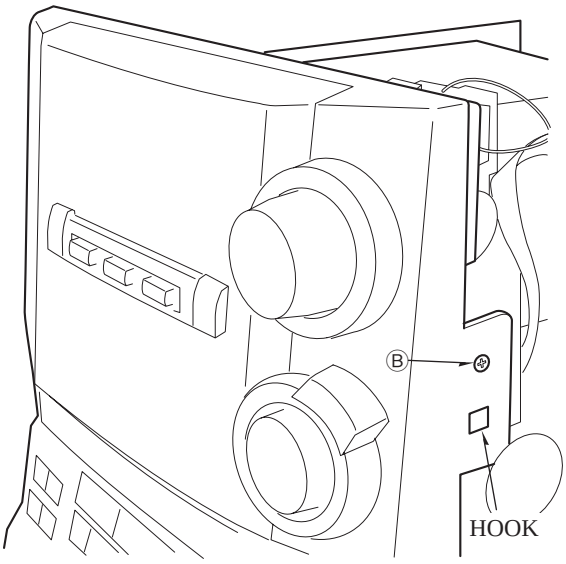
DISASSEMBLY INSTRUCTIONS

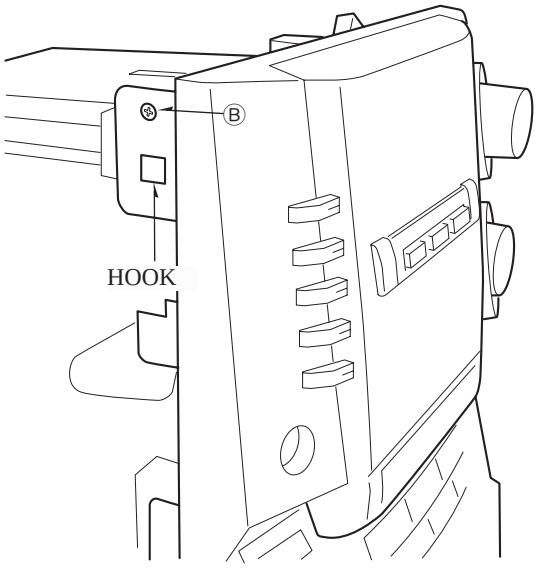
1. Disassembling the MD block
   Remove the CABI, STEEL. (Screws: 4 pcs on the right side, 4 pcs on the left side and 7 pcs on the rear: Total 15 screws)
   Remove the 13 screws (UTT2+3-8) Ⓐ and remove the rear panel.



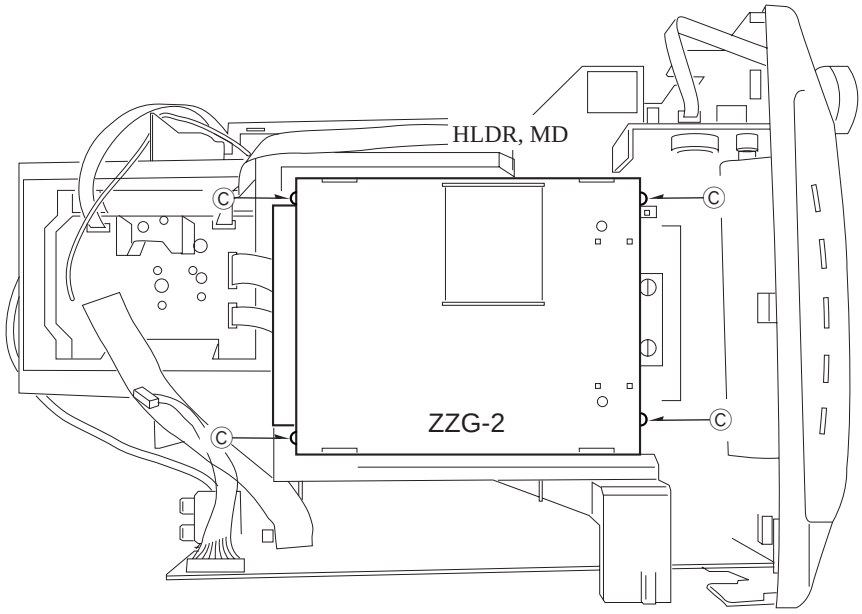
After removing the connectors from the TUNER C.B and the FUN, remove the rear panel.

Remove the two screws (QT2+3-10) Ⓑ. Open the rack and remove the HLDR, MD.

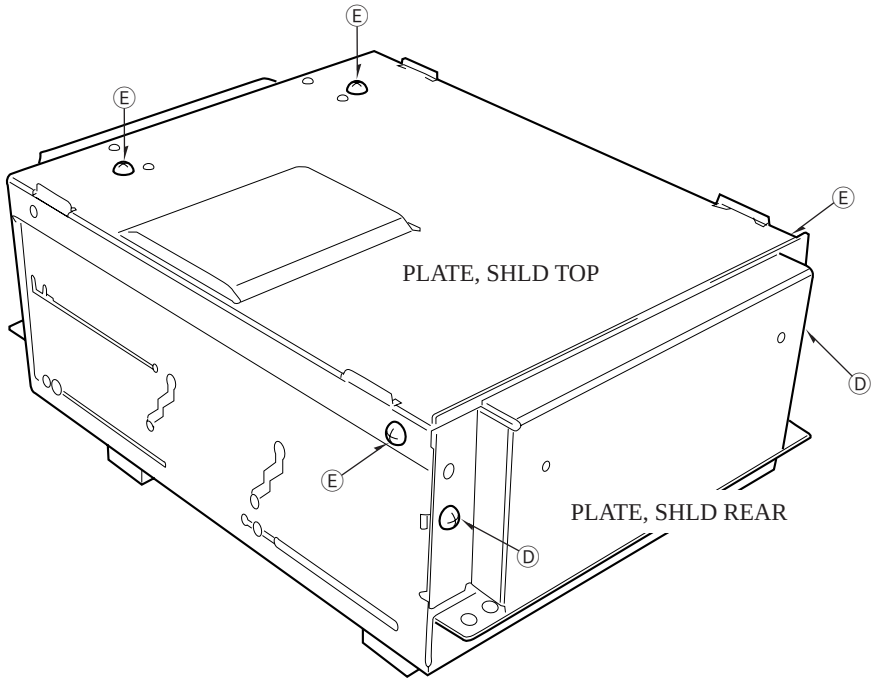




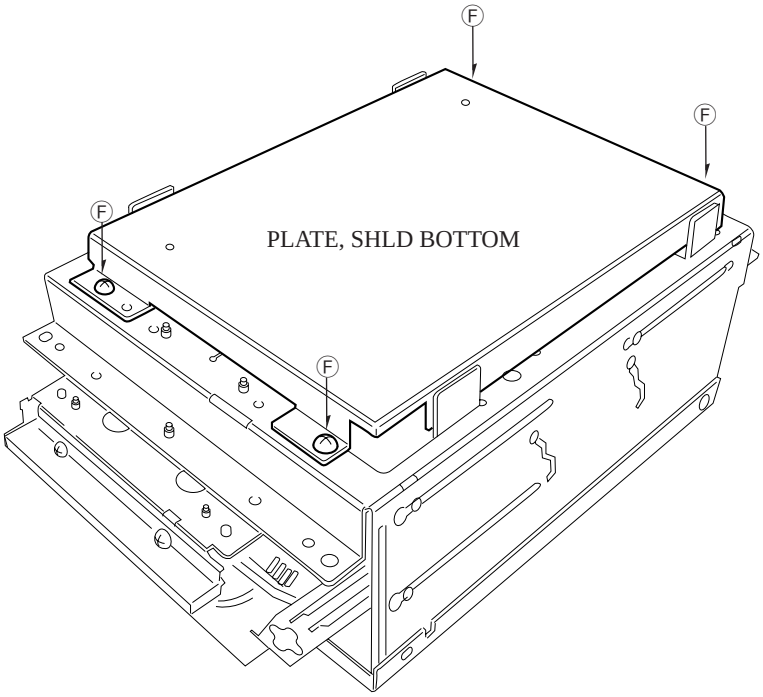
Remove the four screws (BVT2+3-10) Ⓒ. Remove the ZZG-2.



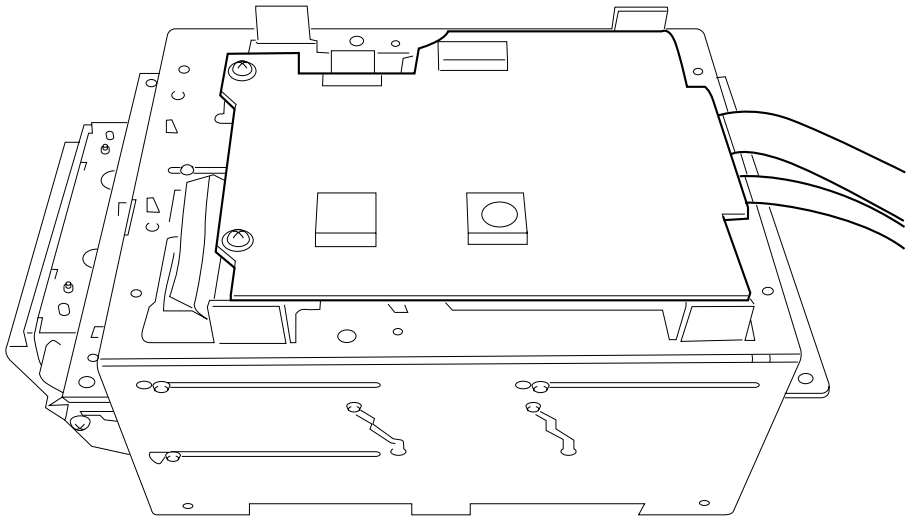
2. Disassembling the MD block and the service position
   Remove the ZZG-2.
   Remove the two screws (UT2+2.6-6 GLD) Ⓓ from the PLATE, SHLD REAR. Remove the PLATE, SHLD REAR.
   Remove the four screws (U+2+2.6-6) Ⓔ from the PLATE, SHLD TOP. Remove the PLATE, SHLD TOP.



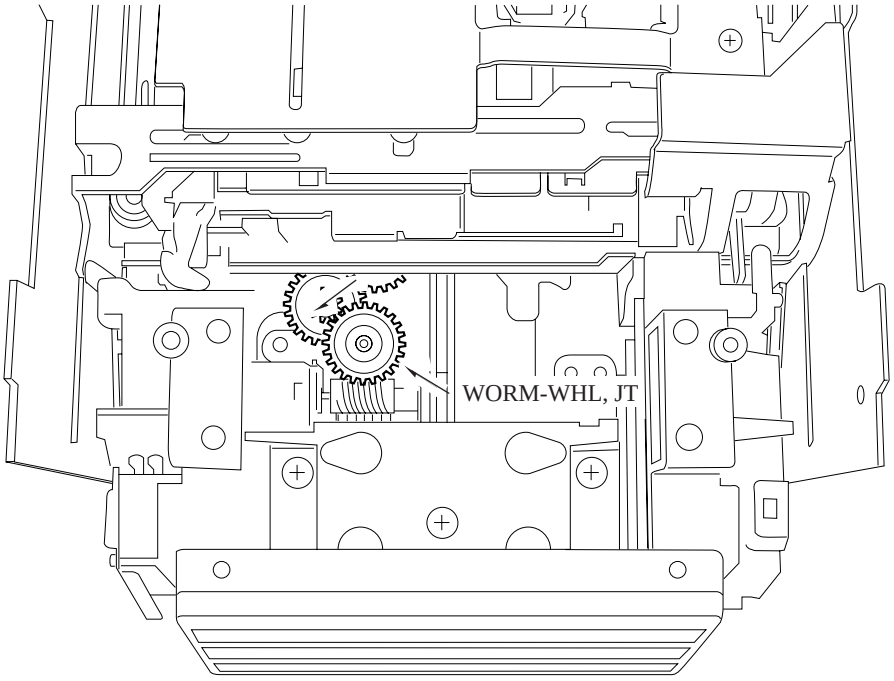
Remove the four screws (UT2+2.6-6 GLD) Ⓕ and remove the PLATE, SHLD BOTTOM.



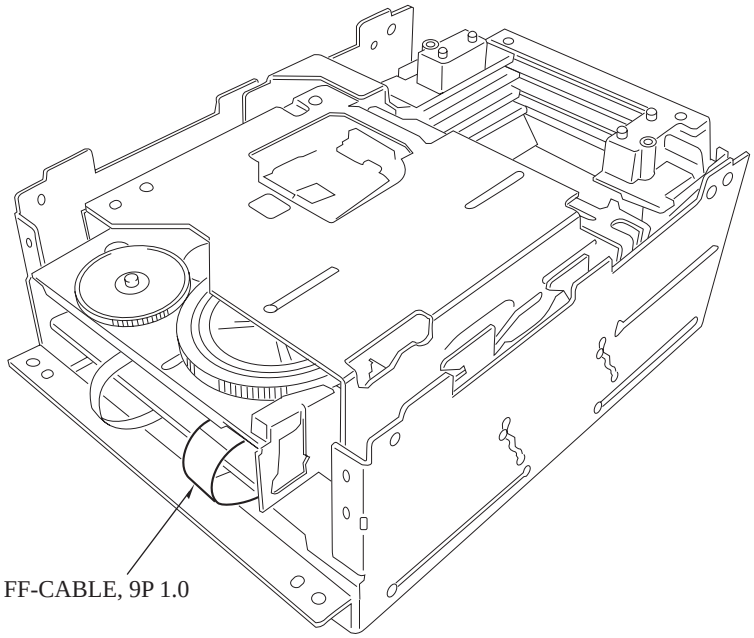
The MD block is ready to be placed in the service position. Connect the MD block with the interface board using the extension FFC as shown below.



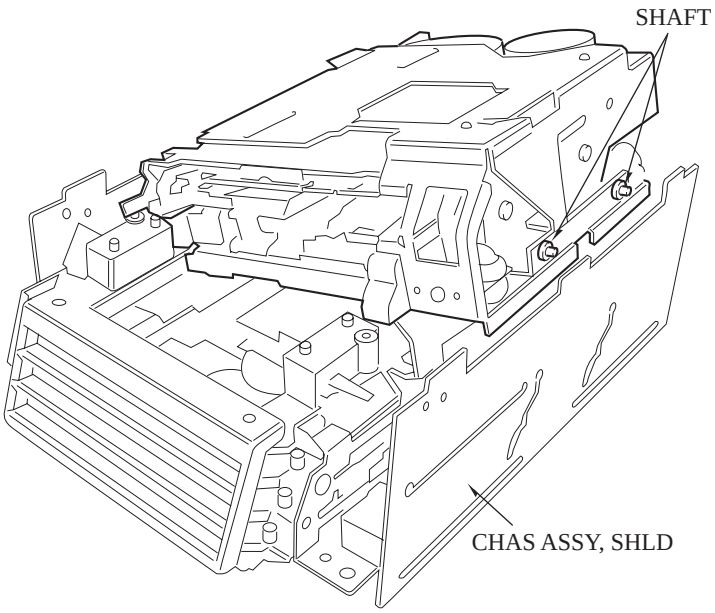
3. Disassembling the elevator
   Rotate the WORM-WHL, JT (the gear shown by the arrow below) counterclockwise to move the elevator to the top position.
   Note: If the PANEL, SHLD BOTTOM is not removed, the elevator cannot be removed.



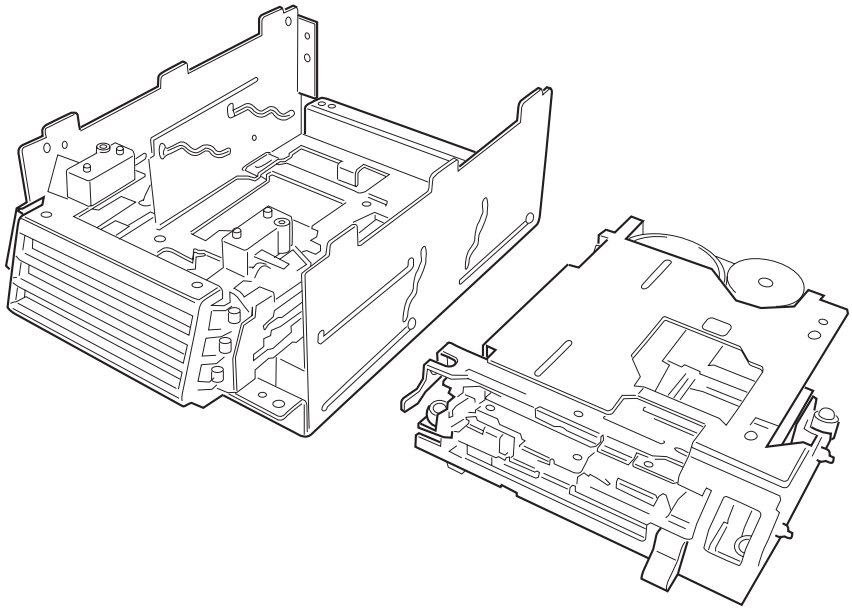
Remove the FF-CABLE, 9P 1.0 from the LOAD C.B.



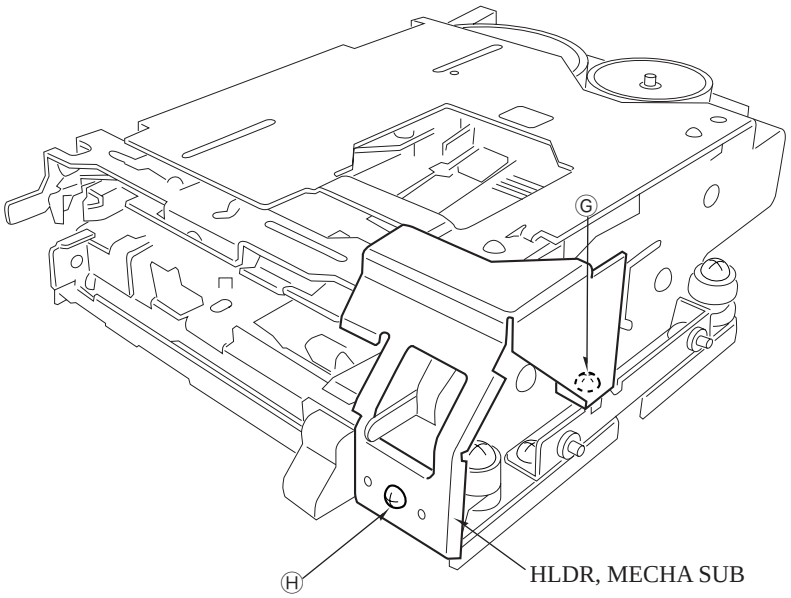
While lifting up the elevator slightly, remove an end of the shaft of the elevator from the guide hole of the CHAS ASSY, SHLD.
Remove the other end of the shaft and tilt the elevator as shown below.
While tilting the elevator, short the shorting land.



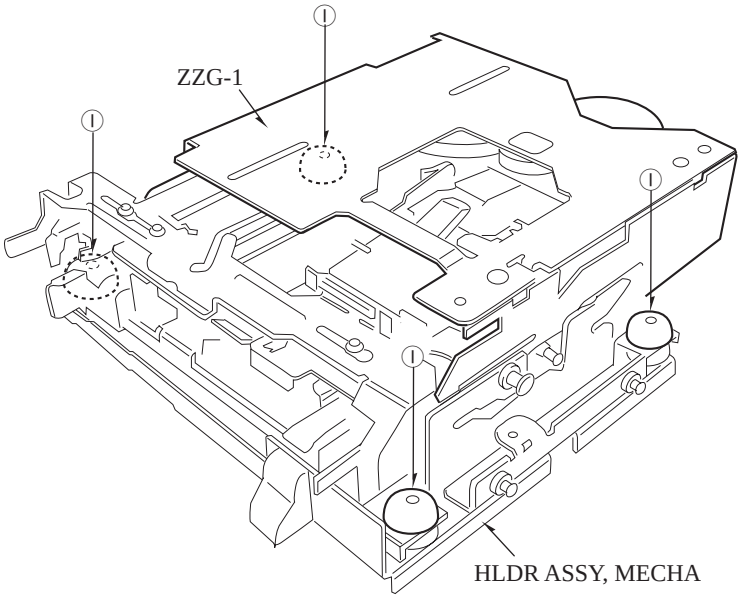
Remove the PICK UP, FFC and the MECHA C.B, FFC, then remove the elevator block.



4. Disassembling the elevator block
   Remove the screw (UT2+2.6-6 GLD) Ⓖ and the screw (VTT+2-4) Ⓗ. Then remove the HLDR, MECHA SUB.

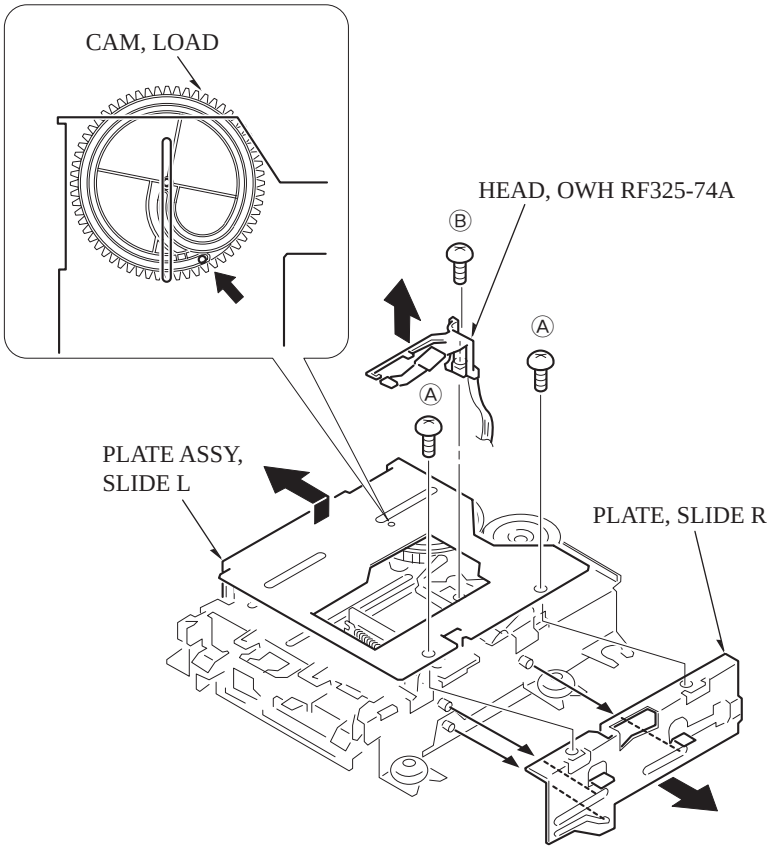


   Remove the four screws (S-SCREW, MD T) Ⓘ and remove the ZZG-1 from the HLDR ASSY, MECHA.

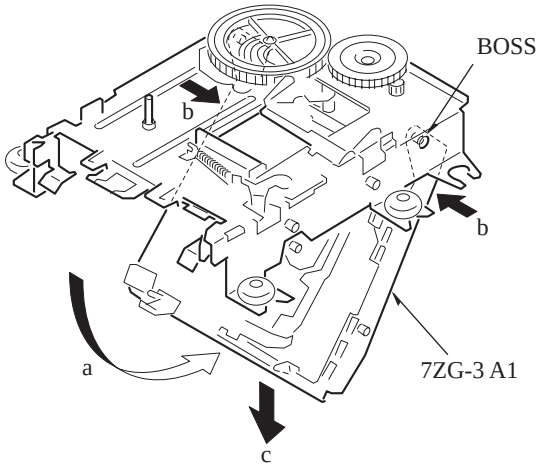


5. Remove the two screws (VTT+2-4) Ⓐ.
   Remove the PLATE ASSY, SLIDE L and the PLATE, SLIDE R in the direction of the arrow.
   Remove the screw (VW+1.7-5 W/O MFZN2C) Ⓑ.
   Remove the HEAD, OWH RF325-74A.

   Re-assembling: Align the axis of the PLATE ASSY, SLIDE L with the arrow mark of the CAM, LOAD.

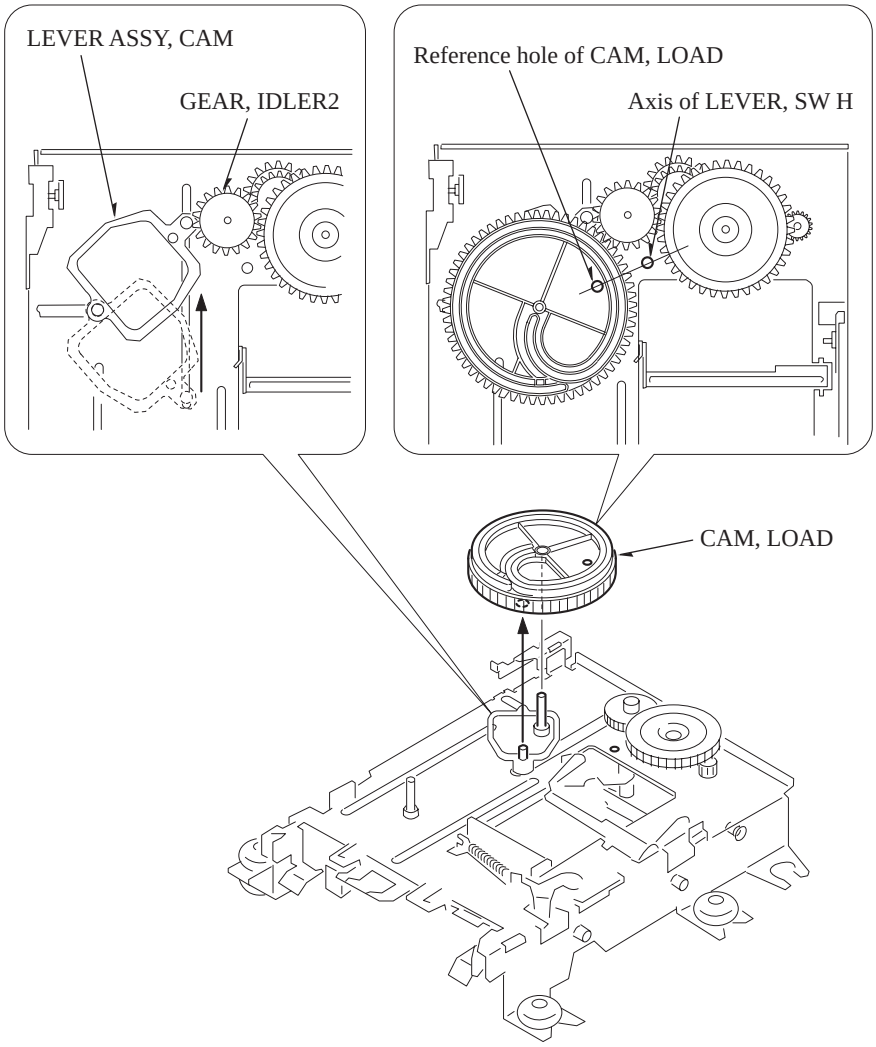


6. Move the 7ZG-3 A1 in the direction of (a).
   While pressing the BOSS in the direction of (b), remove the 7ZG-3 A1 in the direction of (c).

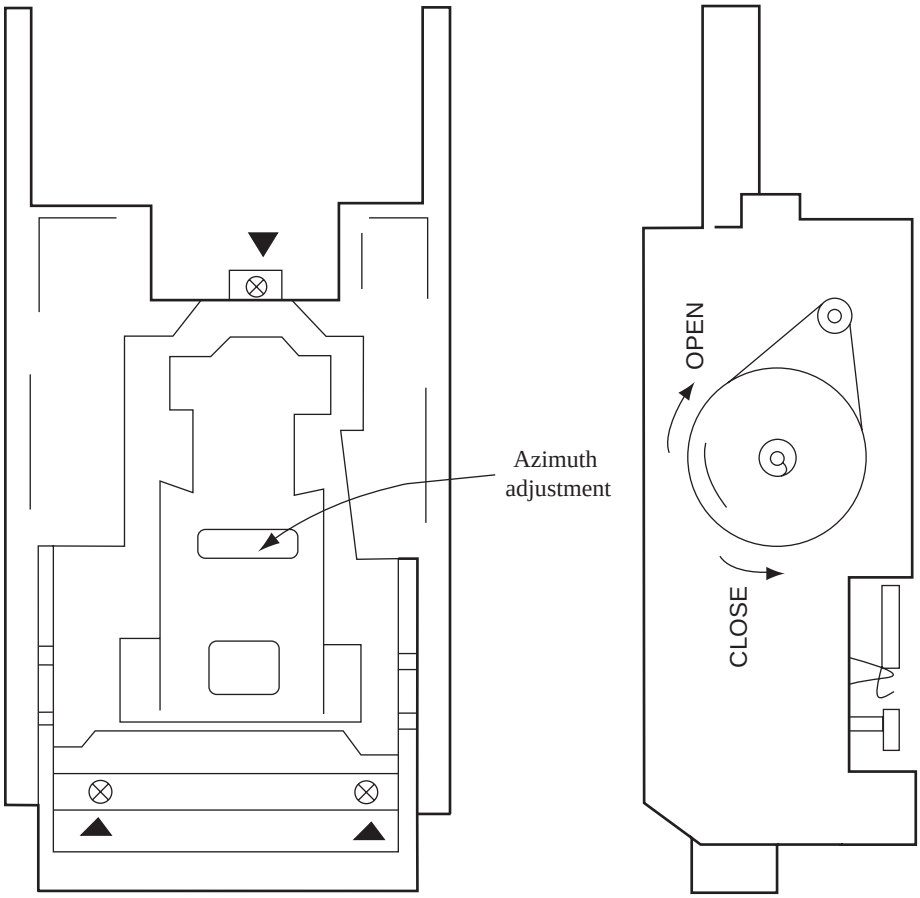


7. Remove the CAM, LOAD in the direction of the arrow.

Re-assembling: Move the LEVER ASSY, CAM in the direction of the arrow mark as much as it can be moved.
Move the reference hole of the CAM, LOAD closer to the axis of the LEVER, SW H as close as possible.
Align the CAM, LOAD with the gear of the GEAR, IDLER2.



CASSETTE MECHANISM DISASSEMBLY INSTRUCTIONS

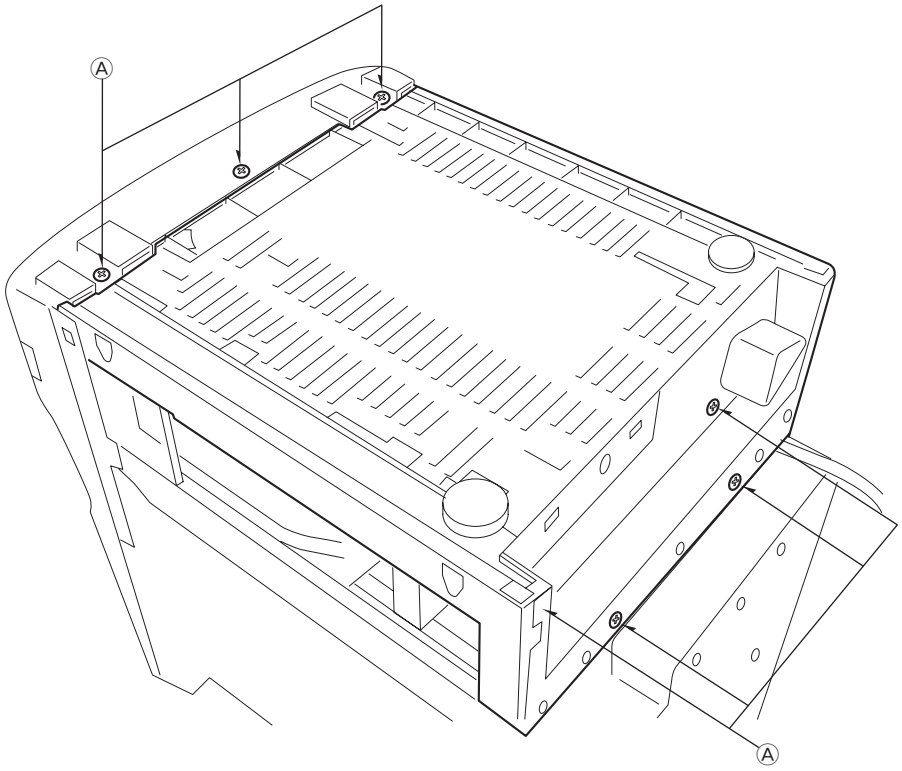


- Remove the three ▲ screws (VT3-5) and open the cassette tray halfway. After pulling up the XR-H560MD and closing the tray again, remove it.
- Perform the azimuth adjustment through the hole on the top surface.
- Perform the motor speed adjustment through the hole at the bottom of the amplifier chassis using the clock screwdriver “d”.
- The tray of the cassette deck cannot be operated without the CD board. Open/close the tray with hand.

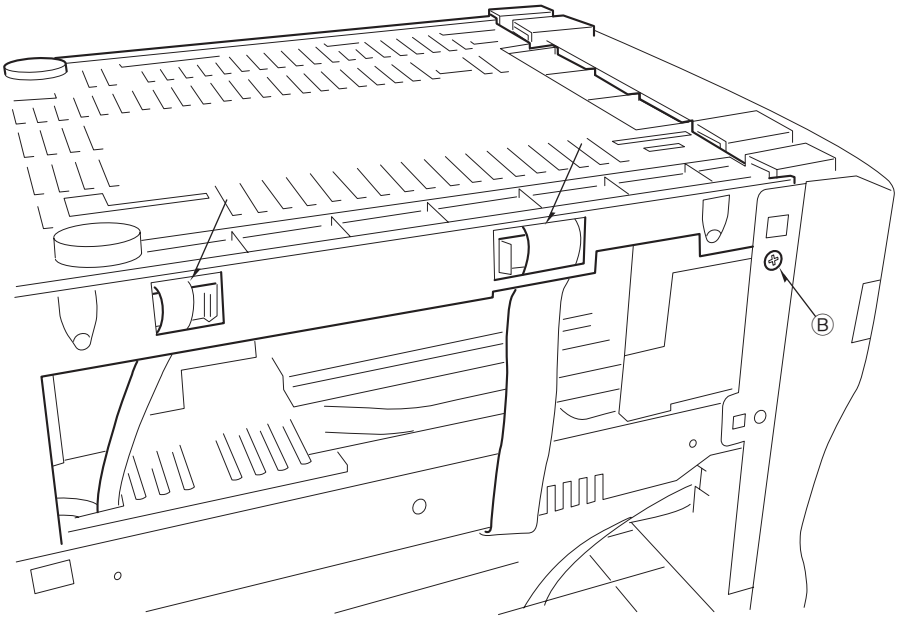
NOTE ON BEFORE STARTING REPAIR

- CD service position

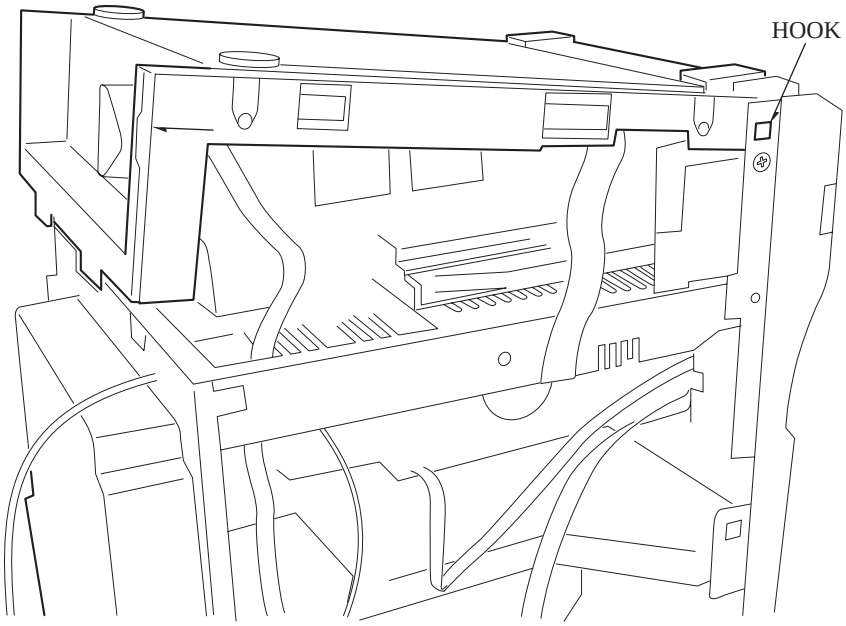
Remove the CABI, STEEL.
Remove the three screws (BVT2+3-10) Ⓐ.
Turn over the unit and remove the CABI, BOTTOM.



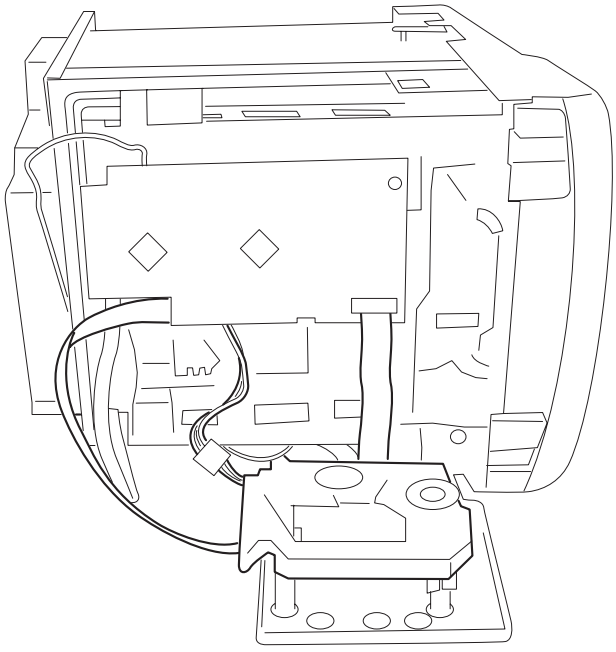
Remove the two FFCs (13P and 6P) the CD block from the hook of the CABI, BOTTOM.
Loosen the two screws (QT2+3-12) Ⓑ of the 4ZG-1 CABI, FR. (The screws are used at the both sides.)



Remove the hooks in the direction of the arrow. (The hooks are used at the both sides.) Pull the CABI, BOTTOM up to the diagonally top right and remove it.



Lay down the unit and remove the 3ZG-2 mechanism.
Extend the 3ZG-2 mechanism using the respective extension jigs.



Service position

ELECTRICAL MAIN PARTS LIST

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-NB6-615-010		C-IC,LC876580A
	87-A20-914-010		IC,SPS-442-1-F
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-022-040		C-IC,BA3880FS
	87-A21-021-040		C-IC,BU2099FV
	87-A21-031-040		C-IC,BU4551BF
	87-A21-202-040		C-IC,M62445AFP
	87-A21-023-040		C-IC,BA3835F
	87-A21-103-040		C-IC,MM1454XFBE
	87-A20-707-010		C-IC,CXA2523AR
	87-A20-708-010		C-IC,CXD2652AR
	87-A20-709-040		C-IC,BD7910FV
	8Z-ZG2-606-010		C-IC,CXP81952
	87-ZG9-606-040		C-IC,MN41V4400SJ-08
	87-A20-755-080		C-IC,AK93C45AF
	87-A20-710-040		C-IC,S-8110AMP
	87-A20-711-040		C-IC,BA5970FP
	87-A20-712-040		C-IC,BA6417F
	87-A21-078-080		C-IC,PCM3003E
	87-017-853-040		IC,NJM2100V
	87-A20-797-040		C-IC,NJU7221U30
	87-A20-798-040		C-IC,NJU7221U35
	87-A20-714-040		C-IC,NJM2370U33
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-A30-198-080		TR,KTC3199GR
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-234-080		TR,CSC4115BC
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-162-010		FET,2SK2937
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-268-040		C-TR,2SA1514K(S)
	87-A30-240-080		TR,CSA1585BC
	87-A30-086-080		C-TR,CSD1306E
	87-A30-190-080		TR,CC5551
	87-A30-137-010		TR,2SD2494
	87-A30-138-010		TR,2SB1625
	87-A30-119-040		C-TR,2SC3906K R
	87-A30-087-080		C-FET,2SK2158
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-257-080		C-TR,2SD1306E
	87-A30-109-010		TR,2SD 2495
	87-A30-108-010		TR,2SB1626
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-047-080		TR,CSD655E
	87-A30-202-080		C-TR,RT1P441C
	87-A30-142-040		C-TR,DTA123EKA
	87-026-423-080		C-TR RN2305
	89-115-884-080		CHIP -TRANSISTER 2SA1588Y
	89-341-164-080		CHIP-TRANSISTOR,2SC4116 Y
	87-026-412-080		C-TR RN1305
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-548-090		DIODE,D3SBA20
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-435-080		ZENER,MTZJ30D
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-183-090		DIODE,RK36(F)
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-488-080		DIODE,1SS244
	87-A40-509-080		ZENER,MTZJ6.8C
	87-A40-469-080		C-DIODE,HSM2838CTR
	87-A40-468-080		C-DIODE,HSM2836CTR
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-932-080		ZENER,MTJ6.2B
	87-001-166-080		DIODE,1SS301
	87-A40-412-040		C-DIODE,SB05-05CP
	87-020-764-080		CHIP-ZENER,02CZ4.7X
MAIN C.B			
C1	87-012-369-080		C-CAP,S 0.047-50F
C2	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
C9	87-016-658-090		CAP,E 4700-35 SMG
C10	87-016-658-090		CAP,E 4700-35 SMG
C21	87-010-247-080		CAP, ELECT 100-50V
C22	87-010-247-080		CAP, ELECT 100-50V
C23	87-010-247-080		CAP, ELECT 100-50V
C24	87-010-247-080		CAP, ELECT 100-50V
C25	87-010-430-080		CAP, ELECT 100-63
C26	87-010-263-080		CAP, ELECT 100-10V
C27	87-012-140-080		CAP 470P
C28	87-010-263-080		CAP, ELECT 100-10V
C29	87-010-408-080		CAP, ELECT 47-50V
C30	87-010-112-080		CAP, ELECT 100-16V
C31	87-010-235-080		CAP,E 470-16 SME
C32	87-012-368-080		C-CAP,S 0.1-50 F
C33	87-016-299-080		CAP,E 10-100 SME
C34	87-016-299-080		CAP,E 10-100 SME
C61	87-010-260-080		CAP, ELECT 47-25V
C62	87-010-403-080		CAP, ELECT 3.3-50V
C91	87-010-401-080		CAP, ELECT 1-50V
C92	87-010-263-080		CAP, ELECT 100-10V
C93	87-010-380-080		CAP, ELECT 47-16V
C101	87-010-178-080		CHIP CAP 1000P
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-405-080		CAP, ELECT 10-50V
C104	87-010-405-080		CAP, ELECT 10-50V
C107	87-010-408-080		CAP, ELECT 47-50V
C108	87-010-408-080		CAP, ELECT 47-50V
C109	87-010-322-080		C-CAP,S 100P-50 CH
C110	87-010-322-080		C-CAP,S 100P-50 CH
C111	87-010-260-080		CAP, ELECT 47-25V
C112	87-010-260-080		CAP, ELECT 47-25V
C113	87-A10-946-080		C-CAP,S 220P-100 J CH
C114	87-A10-946-080		C-CAP,S 220P-100 J CH
C117	87-A11-185-080		C-CAP, 0.47-50 F Z
C118	87-A11-185-080		C-CAP, 0.47-50 F Z
C121	87-010-178-080		CHIP CAP 1000P
C122	87-010-178-080		CHIP CAP 1000P
C123	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C124	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C125	87-012-368-080		C-CAP,S 0.1-50 F
C126	87-012-368-080		C-CAP,S 0.1-50 F
C127	87-012-368-080		C-CAP,S 0.1-50 F
C128	87-012-368-080		C-CAP,S 0.1-50 F
C131	87-010-197-080		CAP, CHIP 0.01 DM
C132	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-197-080		CAP, CHIP 0.01 DM
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C203	87-010-177-080		C-CAP,S 820P-50 SL

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C204	87-010-177-080		C-CAP,S 820P-50 SL
C209	87-010-403-080		CAP, ELECT 3.3-50V
C210	87-010-403-080		CAP, ELECT 3.3-50V
C211	87-010-181-080		CAP,CHIP S 1800P
C212	87-010-181-080		CAP,CHIP S 1800P
C213	87-010-401-080		CAP, ELECT 1-50V
C214	87-010-401-080		CAP, ELECT 1-50V
C215	87-010-322-080		C-CAP,S 100P-50 CH
C216	87-010-322-080		C-CAP,S 100P-50 CH
C217	87-010-401-080		CAP, ELECT 1-50V
C218	87-010-401-080		CAP, ELECT 1-50V
C219	87-A10-946-080		C-CAP,S 220P-100 J CH
C220	87-A10-946-080		C-CAP,S 220P-100 J CH
C225	87-012-368-080		C-CAP,S 0.1-50 F
C226	87-012-368-080		C-CAP,S 0.1-50 F
C227	87-010-186-080		CAP,CHIP 4700P
C228	87-010-186-080		CAP,CHIP 4700P
C229	87-010-993-080		C-CAP,S 0.056-25 B
C230	87-010-993-080		C-CAP,S 0.056-25 B
C231	87-010-196-080		CHIP CAPACITOR,0.1-25
C232	87-010-196-080		CHIP CAPACITOR,0.1-25
C233	87-010-190-080		S CHIP F 0.01
C234	87-010-190-080		S CHIP F 0.01
C235	87-016-285-080		CAP,E 47-100SME
C236	87-016-285-080		CAP,E 47-100SME
C239	87-010-196-080		CHIP CAPACITOR,0.1-25
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C315	87-010-178-080		CHIP CAP 1000P
C316	87-010-178-080		CHIP CAP 1000P
C321	87-016-492-080		C-CAP,S 0.33-16 FZ
C322	87-016-492-080		C-CAP,S 0.33-16 FZ
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK
C374	87-016-083-080		C-CAP,S 0.15-16 RK
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-406-080		CAP, ELECT 22-50
C380	87-010-406-080		CAP, ELECT 22-50
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-012-156-080		C-CAP,S 220P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
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
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	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C422	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C451	87-010-401-080		CAP, ELECT 1-50V
C452	87-010-401-080		CAP, ELECT 1-50V
C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C458	87-010-196-080		CHIP CAPACITOR,0.1-25
C461	87-010-544-080		CAP, ELECT 0.1-50V
C601	87-010-180-080		C-CER 1500P
C602	87-010-180-080		C-CER 1500P
C605	87-010-318-080		C-CAP,S 47P-50 CH
C606	87-010-318-080		C-CAP,S 47P-50 CH
C607	87-010-318-080		C-CAP,S 47P-50 CH
C608	87-010-318-080		C-CAP,S 47P-50 CH
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C619	87-010-185-080		C-CAP,S 3900P-50 B
C620	87-010-185-080		C-CAP,S 3900P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V
C622	87-010-401-080		CAP, ELECT 1-50V
C623	87-A10-773-080		CAP,M 0.10-50 J
C624	87-A10-773-080		CAP,M 0.10-50 J
C625	87-010-401-080		CAP, ELECT 1-50V
C626	87-010-401-080		CAP, ELECT 1-50V
C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C629	87-010-405-080		CAP, ELECT 10-50V
C630	87-010-213-080		C-CAP,S 0.015-50 B
C631	87-010-992-080		C-CAP,S 0.047-25 B
C632	87-010-263-080		CAP, ELECT 100-10V
C633	87-010-263-080		CAP, ELECT 100-10V
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C638	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C677	87-010-196-080		CHIP CAPACITOR,0.1-25
C957	87-010-405-080		CAP, ELECT 10-50V
CN91	87-009-030-010		CONNECTOR 2P PH M
CN92	87-009-030-010		CONNECTOR 2P PH M
CN351	87-099-832-010		CONN,8P V S2M-8W
CN601	87-A60-349-010		CONN 30P DF8A-30S
CN603	87-A60-054-010		CONN,14P V 9604S-14C
CN605	87-099-781-010		CONN,16P V B16B-PH-K-S
CN901	87-099-566-010		CONN,7P TUC-P7P-B1
CNA1	8Z-NB6-617-010		CONN ASSY,9P P-SPLY
FB301	87-008-372-080		FLTR,EMI BL01 RN1
J202	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J204	87-A60-750-010		JACK,PIN 4P R/W BLUE
J602	87-A60-425-010		JACK,PIN 2P YKC21-3838
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
SFR351	87-024-436-080		SFR,47K RH063EC
SFR352	87-024-436-080		SFR,47K RH063EC
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
TH201	87-A91-042-080		C-THMS,100K 55001
TH202	87-A91-042-080		C-THMS,100K 55001
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
FRONT C.B			
C141	87-010-263-040		CAP,E 100-10
C143	87-010-194-080		CAP, CHIP 0.047
C151	87-010-264-040		CAP,E 100-10 5L
C152	87-010-196-080		CHIP CAPACITOR,0.1-25
C153	87-010-493-040		CAP,E 0.47-50 GAS
C154	87-A10-189-040		CAP,E 220-10
C155	87-010-154-080		CAP CHIP 10P
C156	87-010-854-080		C-CAP,S 560PCH
C158	87-010-178-080		CHIP CAP 1000P
C159	87-010-196-080		CHIP CAPACITOR,0.1-25
C160	87-010-196-080		CHIP CAPACITOR,0.1-25
C161	87-010-196-080		CHIP CAPACITOR,0.1-25
C162	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C163	87-A10-189-040		CAP,E 220-10
C165	87-012-157-080		C-CAP,S 330P-50 CH
C166	87-010-075-040		CAP,E 10-16 5L
C171	87-010-194-080		CAP, CHIP 0.047
C172	87-010-408-040		CAP,E 47-50 SME
C173	87-010-981-040		CAP,E 22-35 5L SRE
C174	87-010-406-040		CAP,E 22-50 SME
C180	87-010-194-080		CAP, CHIP 0.047
C183	87-010-197-080		CAP, CHIP 0.01 DM
C184	87-010-197-080		CAP, CHIP 0.01 DM
C185	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C187	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C191	87-012-368-080		C-CAP,S 0.1-50 F
C192	87-010-196-080		CHIP CAPACITOR,0.1-25
C281	87-010-561-040		CAP,E 100-16 GAS
C401	87-010-560-040		CAP,E 10-50 GAS
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-318-080		C-CAP,S 47P-50 CH
C404	87-010-318-080		C-CAP,S 47P-50 CH
C406	87-010-318-080		C-CAP,S 47P-50 CH
C407	87-010-318-080		C-CAP,S 47P-50 CH
C408	87-010-318-080		C-CAP,S 47P-50 CH
C410	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-010-318-080		C-CAP,S 47P-50 CH
C412	87-010-318-080		C-CAP,S 47P-50 CH
C413	87-010-318-080		C-CAP,S 47P-50 CH
C451	87-010-412-040		CAP,E 10-25 M 5L SRE
C501	87-010-322-080		C-CAP,S 100P-50 CH
C502	87-010-322-080		C-CAP,S 100P-50 CH
C503	87-010-322-080		C-CAP,S 100P-50 CH
C701	87-010-196-080		CHIP CAPACITOR,0.1-25
C702	87-012-158-080		C-CAP,S 390P-50 CH
C703	87-010-196-080		CHIP CAPACITOR,0.1-25
C704	87-010-196-080		CHIP CAPACITOR,0.1-25
C705	87-010-196-080		CHIP CAPACITOR,0.1-25
C706	87-010-196-080		CHIP CAPACITOR,0.1-25
C707	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-350-010		CONN 30P DF8A-30P
CN102	87-099-030-010		CONN,13P 6216H
CN252	87-099-209-010		CONN,4P 6216H
CN351	87-099-031-010		CONN,14P 6216 H
CN451	87-099-209-010		CONN,4P 6216H
CN502	87-099-200-010		CONN,7P 6216H
CNA251	88-803-091-690		CONN ASSY,9P
FL101	8Z-NB6-601-010		FL,BJ698GNK
L151	87-A50-333-010		COIL,OSC 9.43MHZ
LED407	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED408	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED409	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED411	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED412	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED413	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED414	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED415	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED416	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED417	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED418	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED419	87-A40-589-040		LED,SLR-56VCT31 RED
LED421	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED422	87-017-980-080		LED,SEL6210S
LED423	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED424	87-017-980-080		LED,SEL6210S
LED425	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED426	87-017-980-080		LED,SEL6210S
LED427	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED428	87-017-980-080		LED,SEL6210S
LED429	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED430	87-017-980-080		LED,SEL6210S
LED441	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED442	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED443	87-A40-451-080		LED,SEL6510C-TP7 GRN
⚠PR251	87-A90-247-080		PROTECTOR,0.315A 60V 491
⚠PR451	87-A90-247-080		PROTECTOR,0.315A 60V 491
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
SW162	87-A90-535-010		SW,RTRY EC16B24304
SW163	87-A91-076-010		SW,RTRY REO121PVB25FINA1
SWITCH C.B			
CN352	87-099-031-010		CONN,14P 6216 H
LED401	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED402	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED403	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED404	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED405	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED406	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED437	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED438	87-A40-451-080		LED,SEL6510C-TP7 GRN

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
LED439	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED444	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED445	87-A40-451-080		LED,SEL6510C-TP7 GRN
LED446	87-A40-451-080		LED,SEL6510C-TP7 GRN
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M
S371	87-A90-095-080		SW,TACT EVQ11G04M
S372	87-A90-095-080		SW,TACT EVQ11G04M
S373	87-A90-095-080		SW,TACT EVQ11G04M
S374	87-A90-095-080		SW,TACT EVQ11G04M
S375	87-A90-095-080		SW,TACT EVQ11G04M
S376	87-A90-095-080		SW,TACT EVQ11G04M
S377	87-A90-095-080		SW,TACT EVQ11G04M
S378	87-A90-095-080		SW,TACT EVQ11G04M
S379	87-A90-095-080		SW,TACT EVQ11G04M
S380	87-A90-095-080		SW,TACT EVQ11G04M
PT C.B			
C1	87-010-387-080		CAP,E 470-25 SME
C4	87-010-403-080		CAP, ELECT 3.3-50V
C5	87-A10-479-080		CAP,CER 2200P-250 M E KH
C8	87-010-917-090		CAP,E 3300-50 M SMG
C9	87-010-917-090		CAP,E 3300-50 M SMG
C10	87-018-209-080		CAP, CER 0.1-50V
C11	87-018-209-080		CAP, CER 0.1-50V
CN1	87-A60-851-010		CONN,9P V VH
⚠PT1	8Z-NB6-608-010		PT,ZNB-6 E
⚠PT2	8Z-NF8-662-110		PT,SUB ZNF-8(E)
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
Q-SUR C.B			
C952	87-010-112-080		CAP, ELECT 100-16V
C953	87-010-260-080		CAP, ELECT 47-25V
C954	87-010-197-080		CAP, CHIP 0.01 DM
C955	87-010-197-080		CAP, CHIP 0.01 DM
C971	87-010-402-080		CAP, ELECT 2.2-50V
C972	87-010-402-080		CAP, ELECT 2.2-50V
C973	87-010-405-080		CAP, ELECT 10-50V
C974	87-010-405-080		CAP, ELECT 10-50V
C975	87-010-322-080		C-CAP,S 100P-50 CH
CN951	87-A60-689-010		CONN,7P H GRY TUC-P07X-C1
MD DOOR C.B			
CN452	87-A60-083-010		CONN,04P H 9604S-04F
S451	87-036-109-010		PUSH SWITCH
M451	87-A90-036-010		MOT ASSY,RF-300CA-11440
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
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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
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, CER 1000P-50V
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		CAP, U 3300P-50
C734	87-012-280-080		CAP, U 3300P-50
C752	87-012-282-080		CAP, U 4700P-50
C753	87-012-195-080		C-CAP,U 100P-50CH
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		CHIP CAPACITOR,0.1-25
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		CAP, CHIP 0.01 DM
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 GAS
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	87-010-405-080		CAP, ELECT 10-50V
C786	87-010-405-080		CAP, ELECT 10-50V
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		CAP, CHIP SS 1500 PBK
C798	87-012-276-080		CAP, CHIP SS 1500 PBK
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		CAP, U 0.01-25
C861	87-012-199-080		CAP 220P
C862	87-012-199-080		CAP 220P
C863	87-012-270-080		CAP, U 470P-50
C864	87-010-405-080		CAP, ELECT 10-50V
C865	87-010-196-080		CHIP CAPACITOR,0.1-25
C866	87-010-405-080		CAP, ELECT 10-50V
C867	87-012-286-080		CAP, U 0.01-25
C868	87-012-184-080		C-CAP,U 33P-50 CH
C869	87-012-180-080		C-CAP,U 22P-50 CH

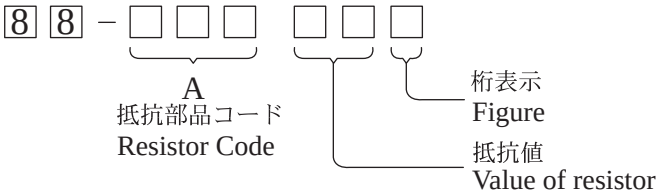
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C940	87-012-286-080		CAP, U 0.01-25
C942	87-012-168-080		C-CAP,U 6P-50 CH
C947	87-012-286-080		CAP, U 0.01-25
C949	87-A10-039-080		C-CAP,U 470P-50 J CH
C952	87-012-286-080		CAP, U 0.01-25
C958	87-010-197-080		CAP, CHIP 0.01 DM
C959	87-010-831-080		C-CAP,U,0.1-16F
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP, ELECT 1-50V
CF801	87-008-423-010		CERAMIC FILTER, SFE10.7
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 AJ-2039
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A91-110-010		FLTR,PCFJZH-450 (TOK)
L781	87-005-847-080		COIL,2.2UH(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(CECS)
L851	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-020-010		COIL,ANT LW(COI)
L942	87-A50-019-010		COIL,OSC LW(COI)
L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)
TC942	87-011-164-010		CAPACITOR,TRIMMER 30P
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309
TUNER ADAPTER C.B			
CN801	87-009-757-010		CONN,16P PH H
CN802	87-A60-189-010		CONN,16P TUC-P16P-B1
INTERFACE C.B			
C101	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-010-101-080		CAP, ELECT 220-16
C104	87-010-370-040		CAP,E 330-6.3 SME
C105	87-010-380-080		CAP, ELECT 47-16V
C106	87-010-101-080		CAP, ELECT 220-16
C121	87-016-462-080		C-CAP,S 1-16 F
C201	87-010-402-080		CAP, ELECT 2.2-50V
C202	87-010-402-080		CAP, ELECT 2.2-50V
C203	87-012-156-080		C-CAP,S 220P-50 CH
C204	87-012-156-080		C-CAP,S 220P-50 CH
C205	87-010-180-080		C-CER 1500P
C206	87-010-180-080		C-CER 1500P
C207	87-010-404-080		CAP, ELECT 4.7-50V
C208	87-010-404-080		CAP, ELECT 4.7-50V
C251	87-010-408-080		CAP, ELECT 47-50V
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-178-080		CHIP CAP 1000P
C402	87-010-178-080		CHIP CAP 1000P
C403	87-010-196-080		CHIP CAPACITOR,0.1-25
C404	87-010-196-080		CHIP CAPACITOR,0.1-25
C411	87-012-140-080		CAP 470P
C421	87-010-196-080		CHIP CAPACITOR,0.1-25
CON901	87-A60-139-010		CONN,14P V FE
CON902	87-A60-060-010		CONN,07P V 9604S-07C
CON903	87-009-030-010		CONNECTOR 2P PH M
CON904	87-A60-061-010		CONN,06P V 9604S-06C
CON905	87-A60-423-010		CONN,14P V TOC-B
CON906	87-A60-422-010		CONN,8P V TOC-B
FB401	87-A50-189-080		C-COIL,S BLM21B272S
MD C.B			
C100	87-016-296-080		C-CAP,TN 22-4SV(A)
C101	87-016-296-080		C-CAP,TN 22-4SV(A)
C102	87-012-286-080		CAP, U 0.01-25
C103	87-010-787-080		CAP, U 0.022-25
C104	87-010-662-080		C-CAP,E 22-6.3
C105	87-010-831-080		C-CAP,U,0.1-16F
C106	87-A11-067-080		C-CAP,S 1-10 K B
C107	87-012-195-080		C-CAP,U 100P-50CH
C108	87-012-274-080		CHIP CAP,U 1000P-50B
C109	87-A11-033-080		C-CAP,TN 47U-4
C111	87-016-296-080		C-CAP,TN 22-4SV(A)
C112	87-012-286-080		CAP, U 0.01-25
C113	87-012-284-080		CAP, U 6800P-50
C114	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
C115	87-A10-369-080		C-CAP,S 0.47-16 K B
C116	87-012-282-080		CAP, U 4700P-50
C117	87-A11-067-080		C-CAP,S 1-10 K B
C118	87-012-282-080		CAP, U 4700P-50
C119	87-016-491-080		C-CAP,S 0.22-16 FZ
C120	87-010-787-080		CAP, U 0.022-25
C121	87-012-286-080		CAP, U 0.01-25
C122	87-010-829-080		CAP, U 0.047-16
C123	87-012-286-080		CAP, U 0.01-25
C124	87-010-662-080		C-CAP,E 22-6.3
C125	87-010-662-080		C-CAP,E 22-6.3
C201	87-010-831-080		C-CAP,U,0.1-16F
C202	87-010-831-080		C-CAP,U,0.1-16F
C203	87-010-785-080		C-CAP,U0.015-25BK
C204	87-016-461-080		C-CAP,S 0.47-16F
C205	87-010-831-080		C-CAP,U,0.1-16F
C206	87-012-270-080		CAP, U 470P-50
C207	87-016-461-080		C-CAP,S 0.47-16F
C208	87-012-286-080		CAP, U 0.01-25
C209	87-010-831-080		C-CAP,U,0.1-16F
C210	87-012-172-080		CAPACITOR CHIP U 10P CH
C211	87-012-172-080		CAPACITOR CHIP U 10P CH
C212	87-012-195-080		C-CAP,U 100P-50CH
C213	87-010-662-080		C-CAP,E 22-6.3
C214	87-012-274-080		CHIP CAP,U 1000P-50B
C217	87-012-188-080		C-CAP,U 47P-50 CH
C218	87-012-172-080		CAPACITOR CHIP U 10P CH
C219	87-016-296-080		C-CAP,TN 22-4SV(A)
C220	87-010-662-080		C-CAP,E 22-6.3
C221	87-010-831-080		C-CAP,U,0.1-16F
C222	87-016-444-080		C-CAP,TN 47-10 F95E
C223	87-010-831-080		C-CAP,U,0.1-16F
C224	87-A10-685-080		C-CAP,S 470P-100 J CH
C225	87-010-831-080		C-CAP,U,0.1-16F
C226	87-010-831-080		C-CAP,U,0.1-16F
C227	87-012-274-080		CHIP CAP,U 1000P-50B
C228	87-012-274-080		CHIP CAP,U 1000P-50B
C229	87-012-274-080		CHIP CAP,U 1000P-50B
C232	87-012-274-080		CHIP CAP,U 1000P-50B
C233	87-012-274-080		CHIP CAP,U 1000P-50B
C300	87-010-831-080		C-CAP,U,0.1-16F
C301	87-010-831-080		C-CAP,U,0.1-16F
C302	87-010-831-080		C-CAP,U,0.1-16F
C305	87-A11-067-080		C-CAP,S 1-10 K B
C307	87-010-831-080		C-CAP,U,0.1-16F
C308	87-010-831-080		C-CAP,U,0.1-16F
C311	87-010-662-080		C-CAP,E 22-6.3
C312	87-012-195-080		C-CAP,U 100P-50CH
C320	87-A90-399-080		C-FLTR,EMI NFM40R01C
C321	87-012-274-080		CHIP CAP,U 1000P-50B
C322	87-012-274-080		CHIP CAP,U 1000P-50B
C323	87-012-274-080		CHIP CAP,U 1000P-50B
C324	87-012-274-080		CHIP CAP,U 1000P-50B
C325	87-012-274-080		CHIP CAP,U 1000P-50B
C400	87-010-831-080		C-CAP,U,0.1-16F
C401	87-010-831-080		C-CAP,U,0.1-16F
C402	87-010-831-080		C-CAP,U,0.1-16F
C403	87-010-831-080		C-CAP,U,0.1-16F
C404	87-010-831-080		C-CAP,U,0.1-16F

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C405	87-010-661-080		C-CAP,E 10-16
C406	87-010-779-080		C-CAP,E 100-6.3
C407	87-012-197-080		C-CAP,U 150P-50 CH
C408	87-012-197-080		C-CAP,U 150P-50 CH
C411	87-012-271-080		CAP, U 560P-50
C412	87-012-271-080		CAP, U 560P-50
C413	87-012-197-080		C-CAP,U 150P-50 CH
C414	87-012-197-080		C-CAP,U 150P-50 CH
C417	87-012-268-080		C-CAP,U 330P-50 B
C418	87-012-268-080		C-CAP,U 330P-50 B
C423	87-012-286-080		CAP, U 0.01-25
C424	87-012-286-080		CAP, U 0.01-25
C429	87-012-286-080		CAP, U 0.01-25
C430	87-012-286-080		CAP, U 0.01-25
C431	87-010-779-080		C-CAP,E 100-6.3
C434	87-010-831-080		C-CAP,U,0.1-16F
C500	87-010-661-080		C-CAP,E 10-16
C501	87-010-831-080		C-CAP,U,0.1-16F
C502	87-010-831-080		C-CAP,U,0.1-16F
C503	87-010-846-080		C-CAP,E 4.7-35V
C504	87-010-831-080		C-CAP,U,0.1-16F
C505	87-010-846-080		C-CAP,E 4.7-35V
C506	87-010-831-080		C-CAP,U,0.1-16F
C507	87-010-661-080		C-CAP,E 10-16
C508	87-010-831-080		C-CAP,U,0.1-16F
C509	87-010-846-080		C-CAP,E 4.7-35V
C510	87-010-831-080		C-CAP,U,0.1-16F
C511	87-010-661-080		C-CAP,E 10-16
C513	87-010-661-080		C-CAP,E 10-16
C514	87-010-661-080		C-CAP,E 10-16
C515	87-012-337-080		C-CAP,U 56P-50 CH
C516	87-012-337-080		C-CAP,U 56P-50 CH
C517	87-012-278-080		C-CAP,U 2200P-50 B
C518	87-012-278-080		C-CAP,U 2200P-50 B
C519	87-010-831-080		C-CAP,U,0.1-16F
C520	87-010-661-080		C-CAP,E 10-16
C521	87-010-831-080		C-CAP,U,0.1-16F
C522	87-010-661-080		C-CAP,E 10-16
C523	87-010-662-080		C-CAP,E 22-6.3
C524	87-010-662-080		C-CAP,E 22-6.3
C525	87-012-274-080		CHIP CAP,U 1000P-50B
C526	87-012-274-080		CHIP CAP,U 1000P-50B
C527	87-010-661-080		C-CAP,E 10-16
C528	87-010-661-080		C-CAP,E 10-16
C530	87-010-831-080		C-CAP,U,0.1-16F
C531	87-010-831-080		C-CAP,U,0.1-16F
C600	87-010-662-080		C-CAP,E 22-6.3
C601	87-010-779-080		C-CAP,E 100-6.3
C602	87-010-779-080		C-CAP,E 100-6.3
C603	87-010-662-080		C-CAP,E 22-6.3
C604	87-010-779-080		C-CAP,E 100-6.3
C605	87-012-286-080		CAP, U 0.01-25
C607	87-A10-711-080		C-CAP,E 100-6.3 M MF
C701	87-010-779-080		C-CAP,E 100-6.3
C702	87-012-286-080		CAP, U 0.01-25
C703	87-012-286-080		CAP, U 0.01-25
C706	87-010-831-080		C-CAP,U,0.1-16F
CN100	87-A60-537-080		C-CONN,21P H CFP55
CN200	87-A60-816-080		C-CONN,9P V 6232
CN300	87-A60-518-080		C-CONN,8P H 6232
CN400	87-A60-714-080		C-CONN,8P V FMN-BMTR
CN600	87-A60-519-080		C-CONN,14P H 6232
CN700	87-A60-814-080		C-CONN,4P H 6232
CN900	87-A60-817-010		CONN,4P V 52806-0410
FB501	87-A90-828-080		C-F-BEAD, BK1608LM182
FC201	8Z-ZG2-612-010		FF-CABLE, 9P 1.0 90MM
FC700	8Z-ZG2-613-010		FF-CABLE, 4P 1.0 70MM
L100	87-A50-117-080		C-COIL,10UHLQH3C
L101	87-A50-012-080		C-COIL,100UH LQH3C
L102	87-A50-117-080		C-COIL,10UHLQH3C
L103	87-A50-117-080		C-COIL,10UHLQH3C
L201	87-A50-117-080		C-COIL,10UHLQH3C
L202	87-A50-117-080		C-COIL,10UHLQH3C
L203	87-A50-116-080		C-COIL,4.7UHLQH3C
L301	87-A50-117-080		C-COIL,10UHLQH3C
L501	87-A50-116-080		C-COIL,4.7UHLQH3C
L502	87-A50-116-080		C-COIL,4.7UHLQH3C
L503	87-A50-116-080		C-COIL,4.7UHLQH3C
L504	87-005-774-080		C-COIL,4BLH
L505	87-005-774-080		C-COIL,4BLH
L611	87-A50-163-080		C-COIL,ZBFS5101-PT
L612	87-005-512-080		C-COIL,BLM21A05
L613	87-005-512-080		C-COIL,BLM21A05
L614	87-A50-163-080		C-COIL,ZBFS5101-PT
L615	87-A90-034-080		C-FLTR,EMI BLM41P750
L616	87-A50-163-080		C-COIL,ZBFS5101-PT
R315	87-022-239-080		C-RES U 10K-1/16WF
R423	87-025-564-080		C-RES,U M/F 47K D
R424	87-025-564-080		C-RES,U M/F 47K D
R425	87-022-583-080		C-RES,U M/F 12K D
R426	87-022-583-080		C-RES,U M/F 12K D
S701	87-A90-947-080		C-SW,MICRO SPPB63
S702	87-A90-947-080		C-SW,MICRO SPPB63
X200	87-A70-105-080		C-VIB,XTAL 22.5792MHZ SMD-49
X301	87-A70-100-080		C-VIB,CER 12.0MHZ PBRC-BR-A
DISC SW C.B			
R900	87-022-361-080		C-RES,S 47K-1/10W F
R901	87-022-359-080		C-RES,S22K-1/10WF
R902	87-022-355-080		C-RES,S10K-1/10W F
S900	87-A90-948-010		SW,LVR 2-1-2 MPU11263MLB0
S901	87-A90-948-010		SW,LVR 2-1-2 MPU11263MLB0
S902	87-A90-948-010		SW,LVR 2-1-2 MPU11263MLB0
MOTOR C.B			
M900	87-A91-054-010		MOT,FF-050SK
LOAD C.B			
CN100	87-A60-818-010		CONN,9P H 52807-0910
CN101	87-099-047-010		CONN,04FM-1.0ST
FC100	8Z-ZG1-605-010		FF-CABLE, 21P 0.5 100MM
FC101	8Z-ZG1-606-010		FF-CABLE, 8P 1.0 115MM
M100	87-A90-672-010		MOT,M25E-4
S100	87-036-109-010		PUSH SWITCH
S101	87-A90-117-010		SW,PUSH 1-1-1 MPU103
MECHA C.B			
SW400	87-A90-611-010		SW,PUSH 3-2-2 MPU20300MLB0
SW401	87-A90-612-010		SW,PUSH 2-1-1 MPU10371MLB1
DECK C.B			
SFR1	87-024-581-010		SFR,3.3KH KVSF 637A
SOL1	82-ZM1-618-310		SOL ASSY,27
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
MOTOR-1			
M2	87-A90-346-010		MOT,RF-500TB 12560
SW7	87-036-110-010		SW,MICRO SPPB62
RELAY C.B			

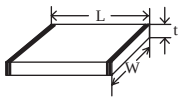
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

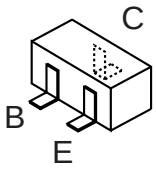
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



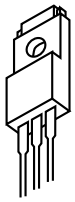
チップ抵抗
Chip resistor

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

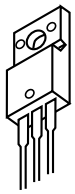


2SA1235
2SA1514
2SA1588
2SC3052
2SC3906
2SC4116
2SD1306
CSD1306
DTA123EKA
KTA1298
RN1305
RN2305
RT1N141C
RT1N144C
RT1P141C
RT1P144C
RT1P441C

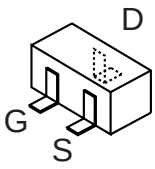


2SB1370

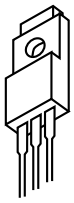
2SB1625
2SD2494



2SB1626
2SD2495

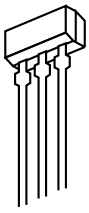


2SK2158



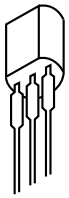
2SK2937

CC5551
CSD655
KTC3199



CSA1585
CSC4115

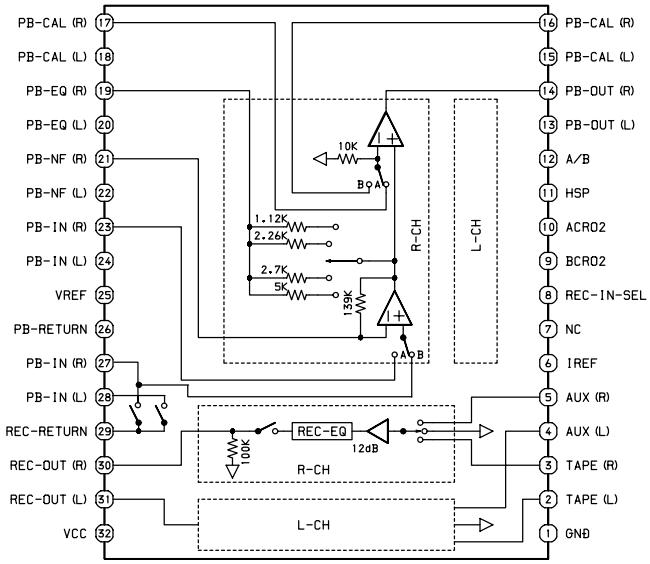
DTC114ES



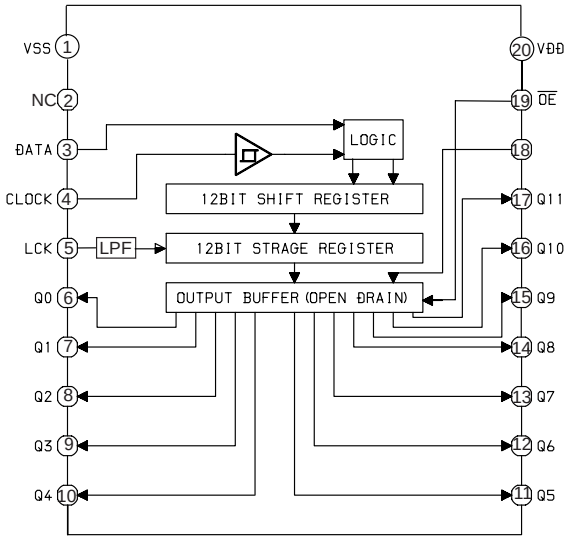
KTA1266
KTC3198

IC BLOCK DIAGRAM

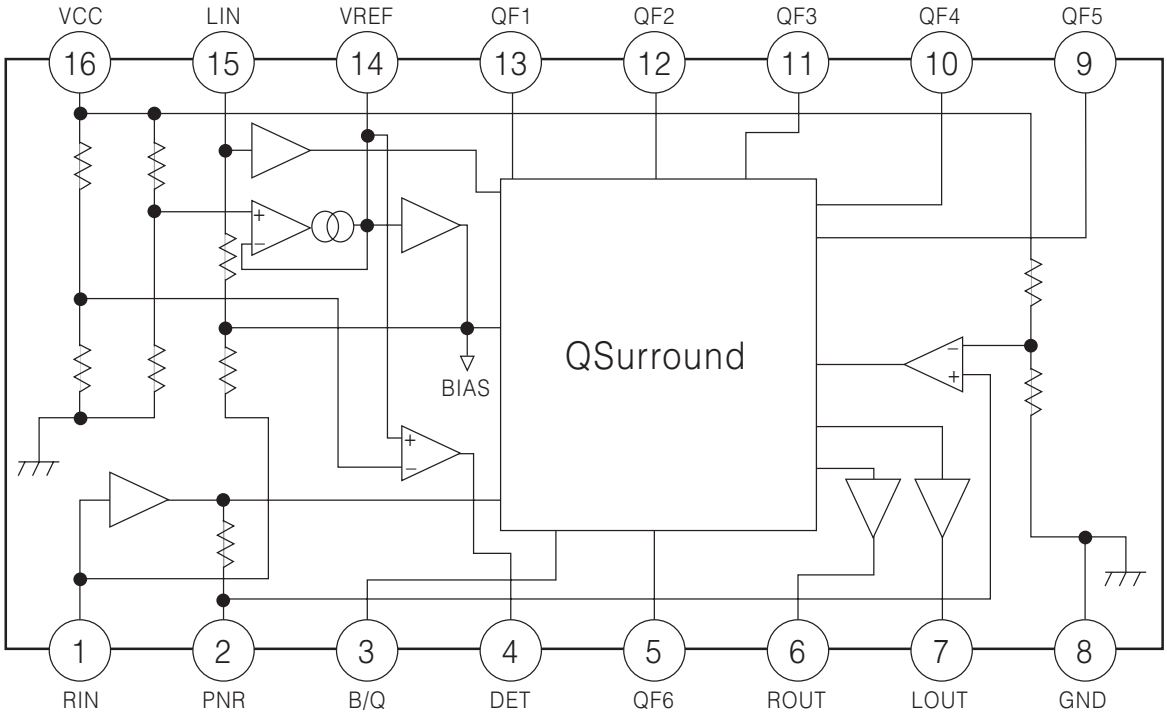
IC, BA7762AFS



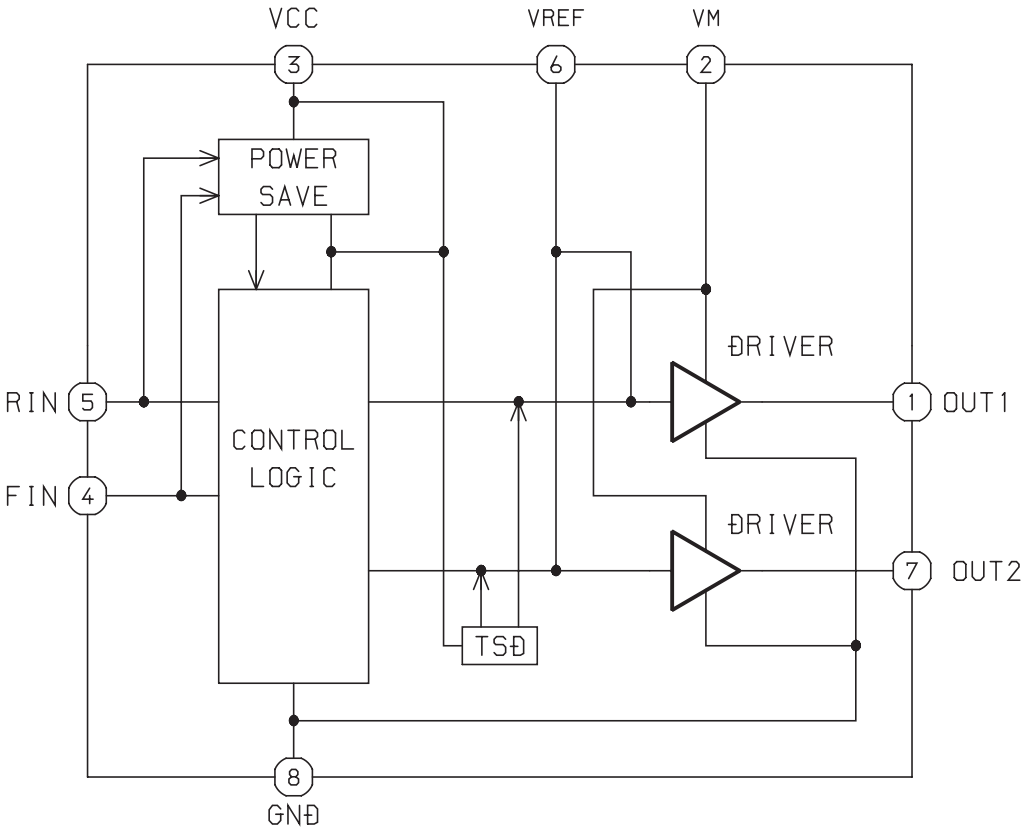
IC, BU2099FV



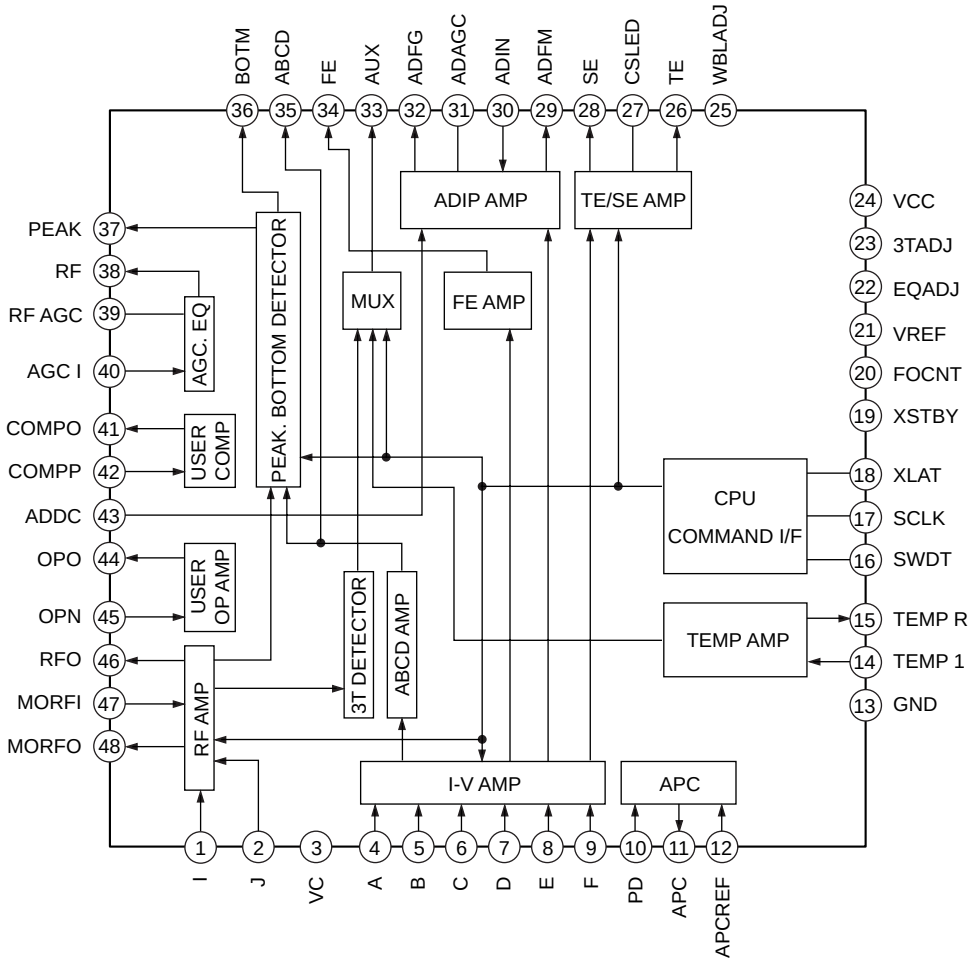
IC, MM1454XFBE



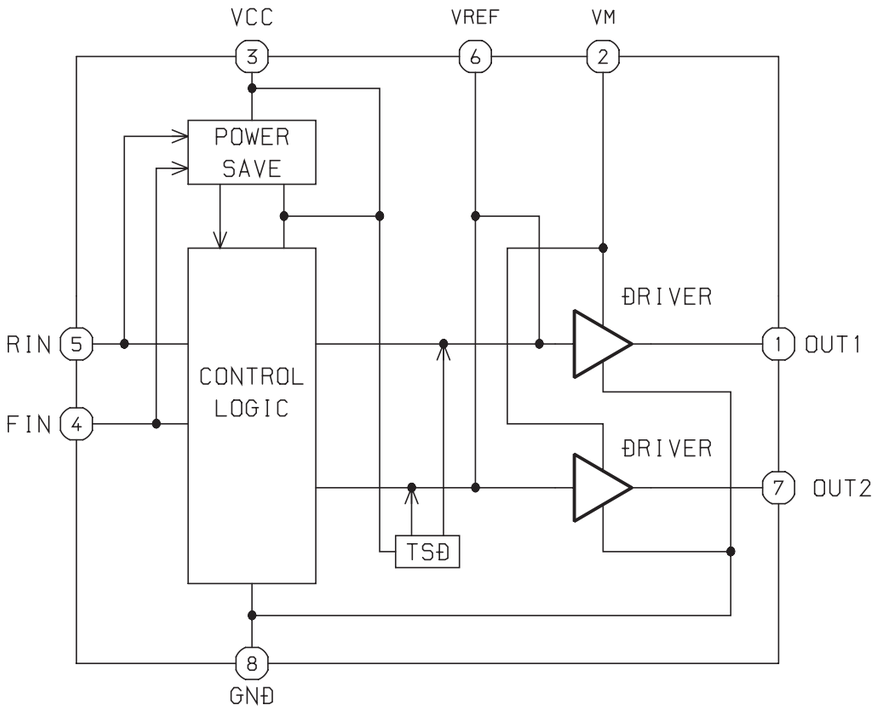
IC, BA6417F



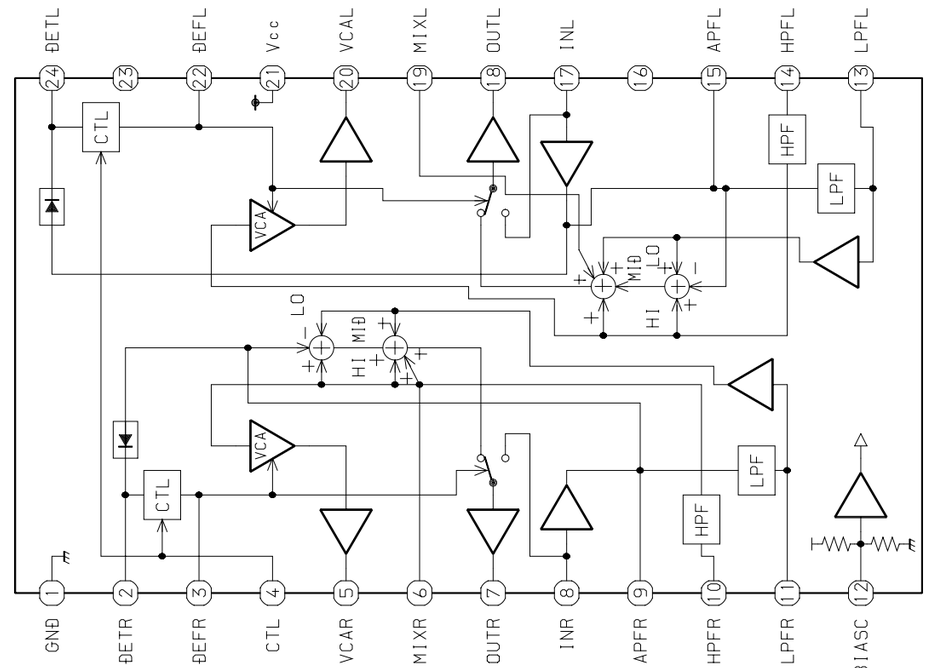
IC, CXA2523AR



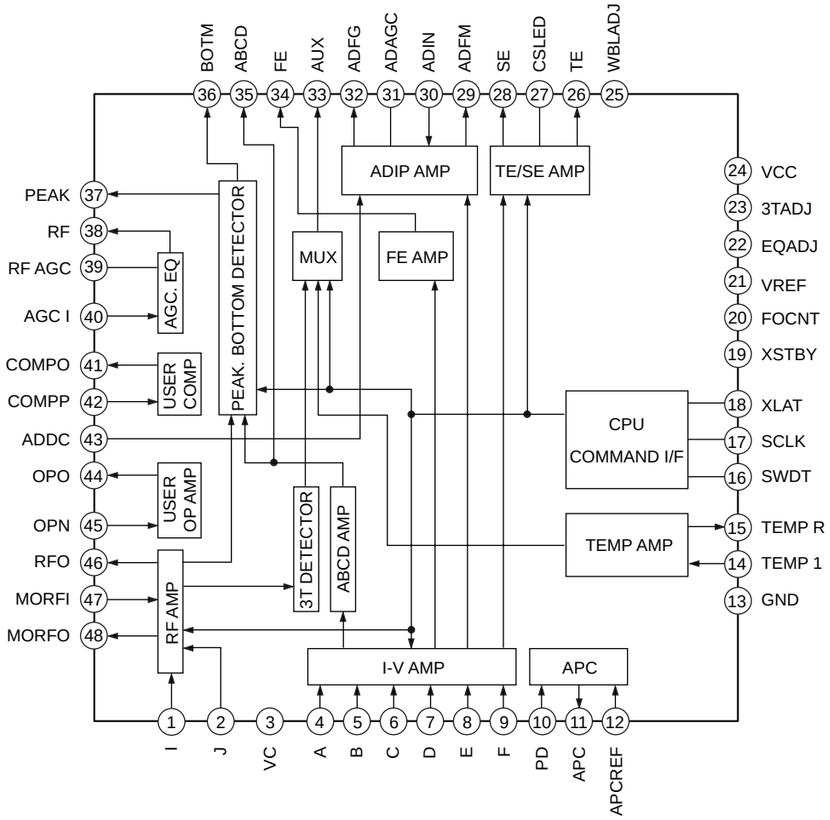
IC, BA6417F



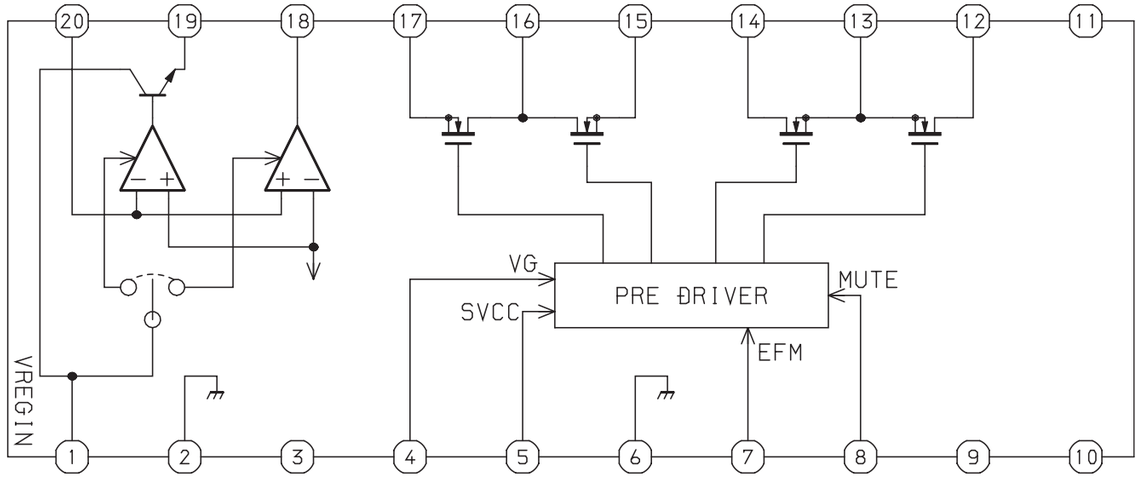
IC, BA3880FS



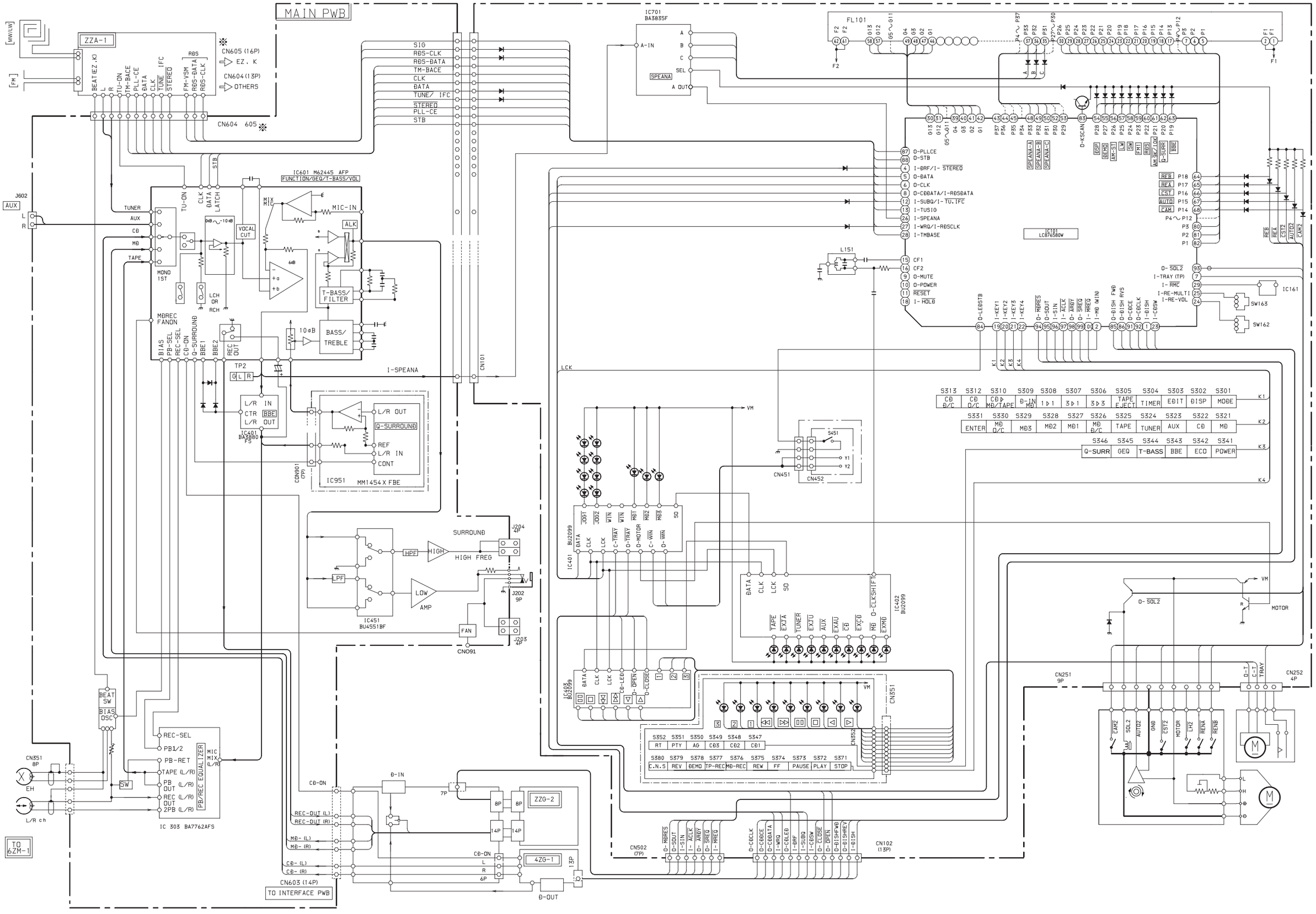
IC, CXA2523AR



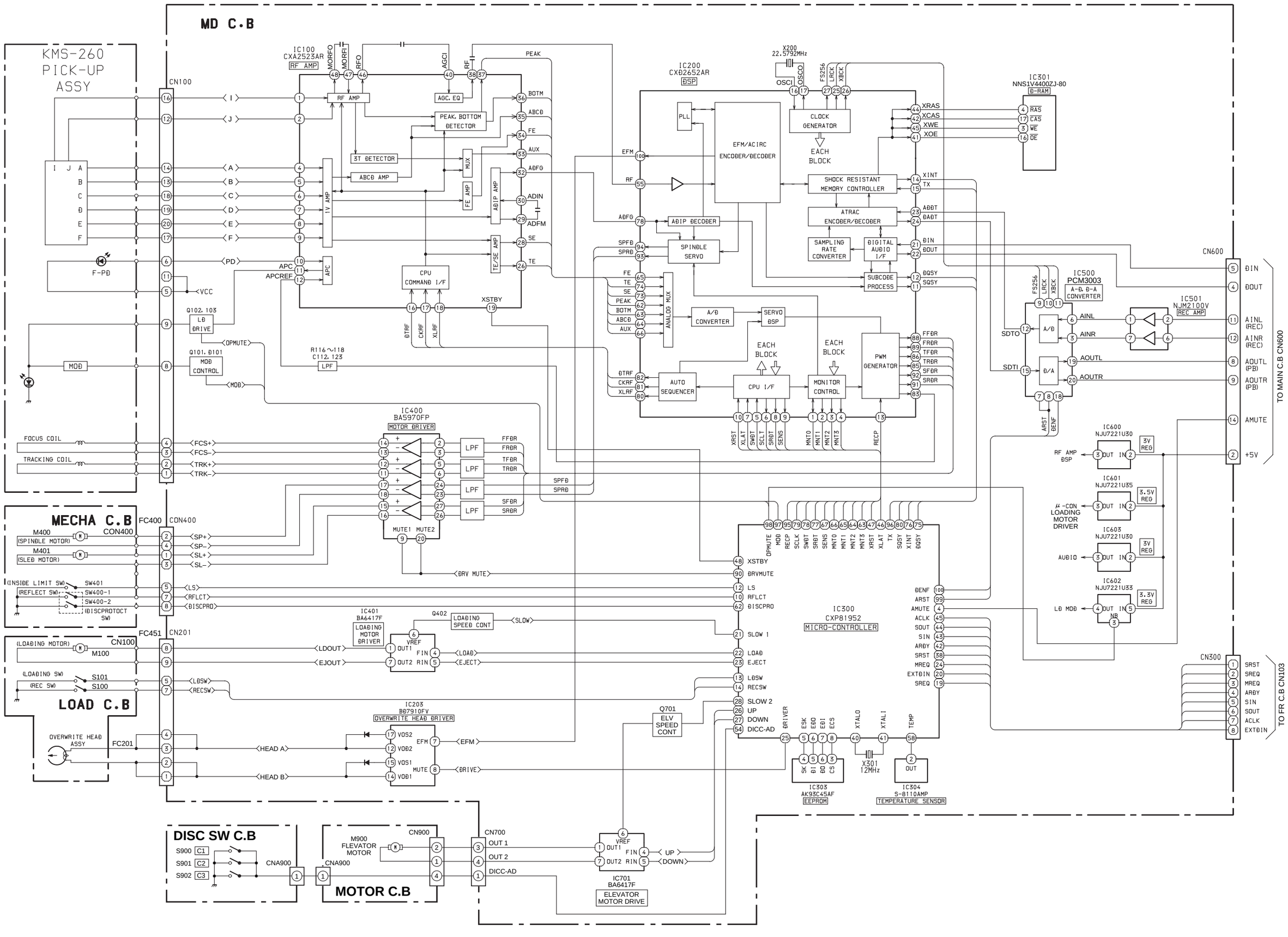
IC, BD7910FV



BLOCK DIAGRAM-1 (MAIN)



BLOCK DIAGRAM-2 (MD)



MAIN C.B

TO/FROM TUNER ADAPTER C.B
CN801

TO/FROM INTERFACE C.B
CN901

VIDEO/AUX
J602

SPEAKERS HIGH FREQ
J204

SPEAKERS LOW FREQ
J203

TO/FROM PT C.B
CN001

TO/FROM RELAY C.B

TO/FROM FRONT C.B
CN101

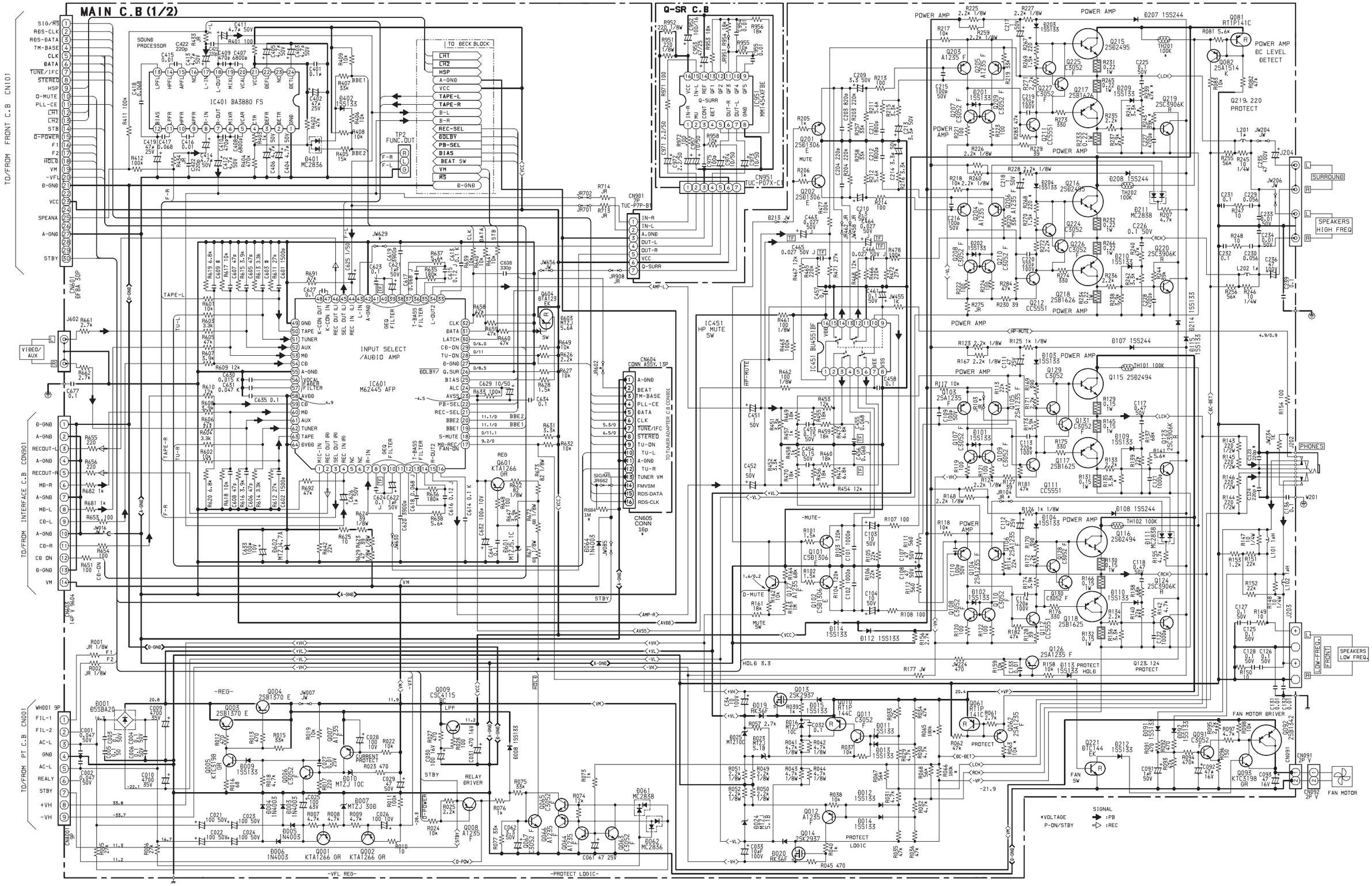
J202
PHONES

TO/FROM Q-SURROUND C.B
CN951

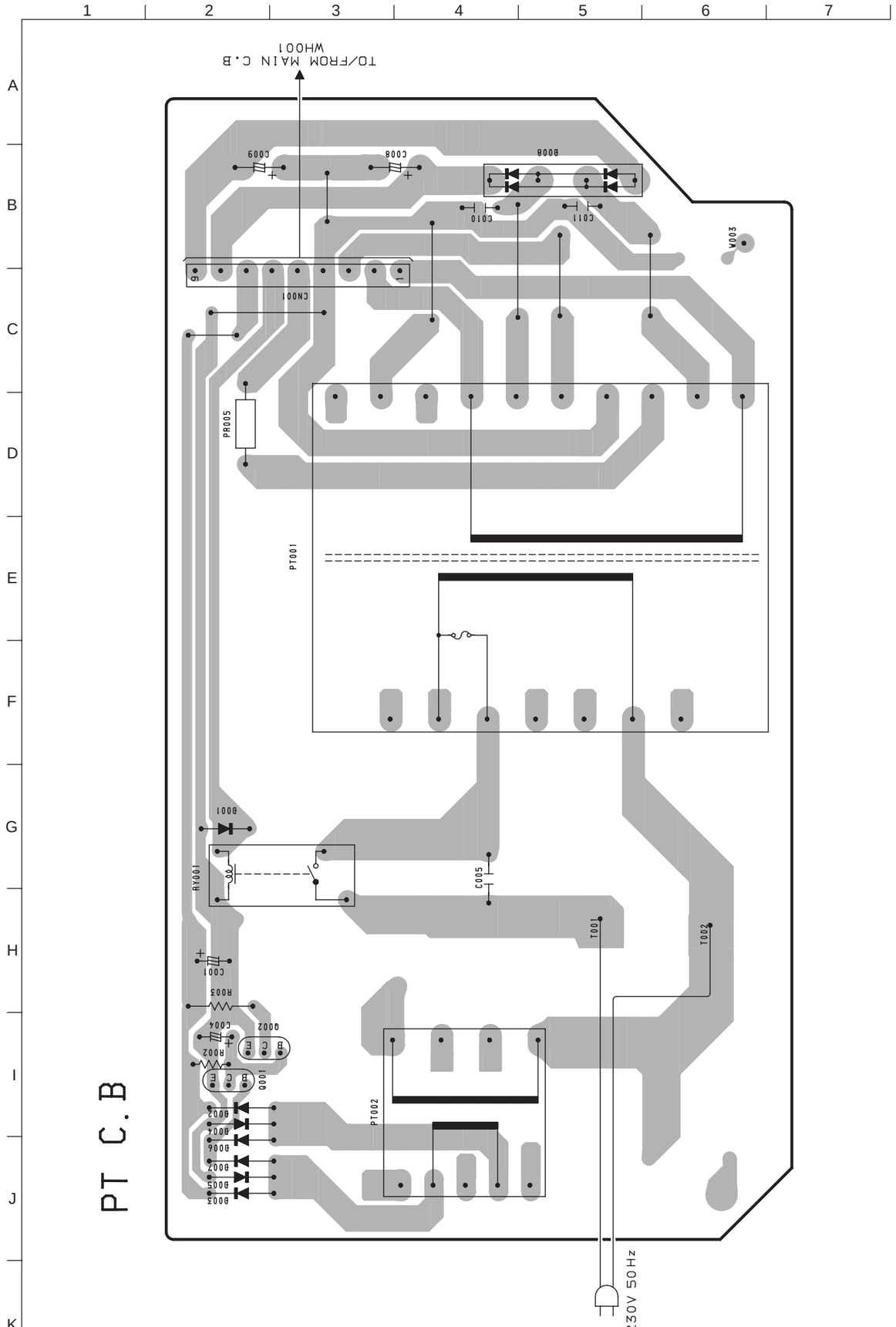
Q-SURROUND C.B

TO/FROM MAIN C.B
CN901

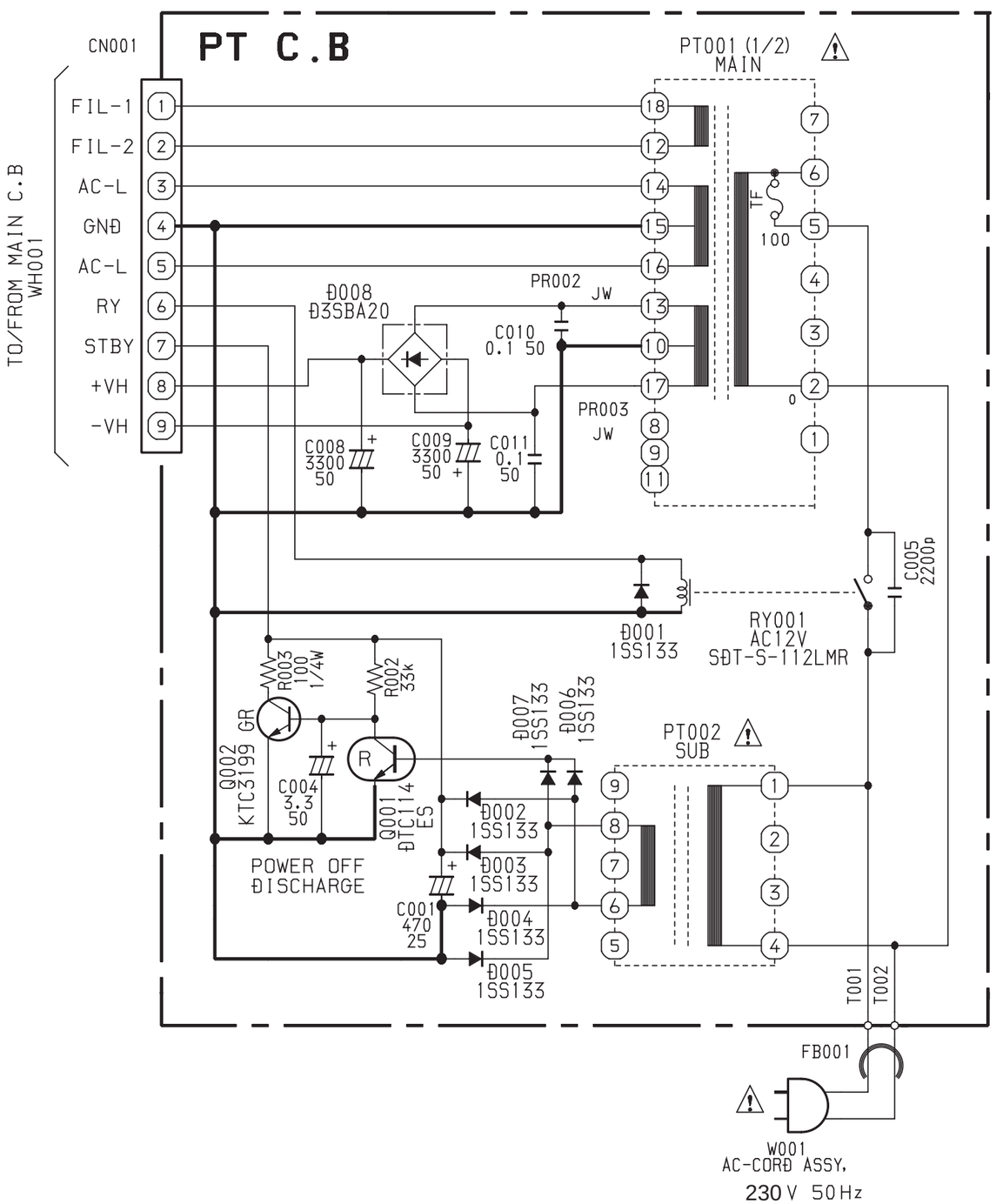
SCHEMATIC DIAGRAM-1 (MAIN 1/2)



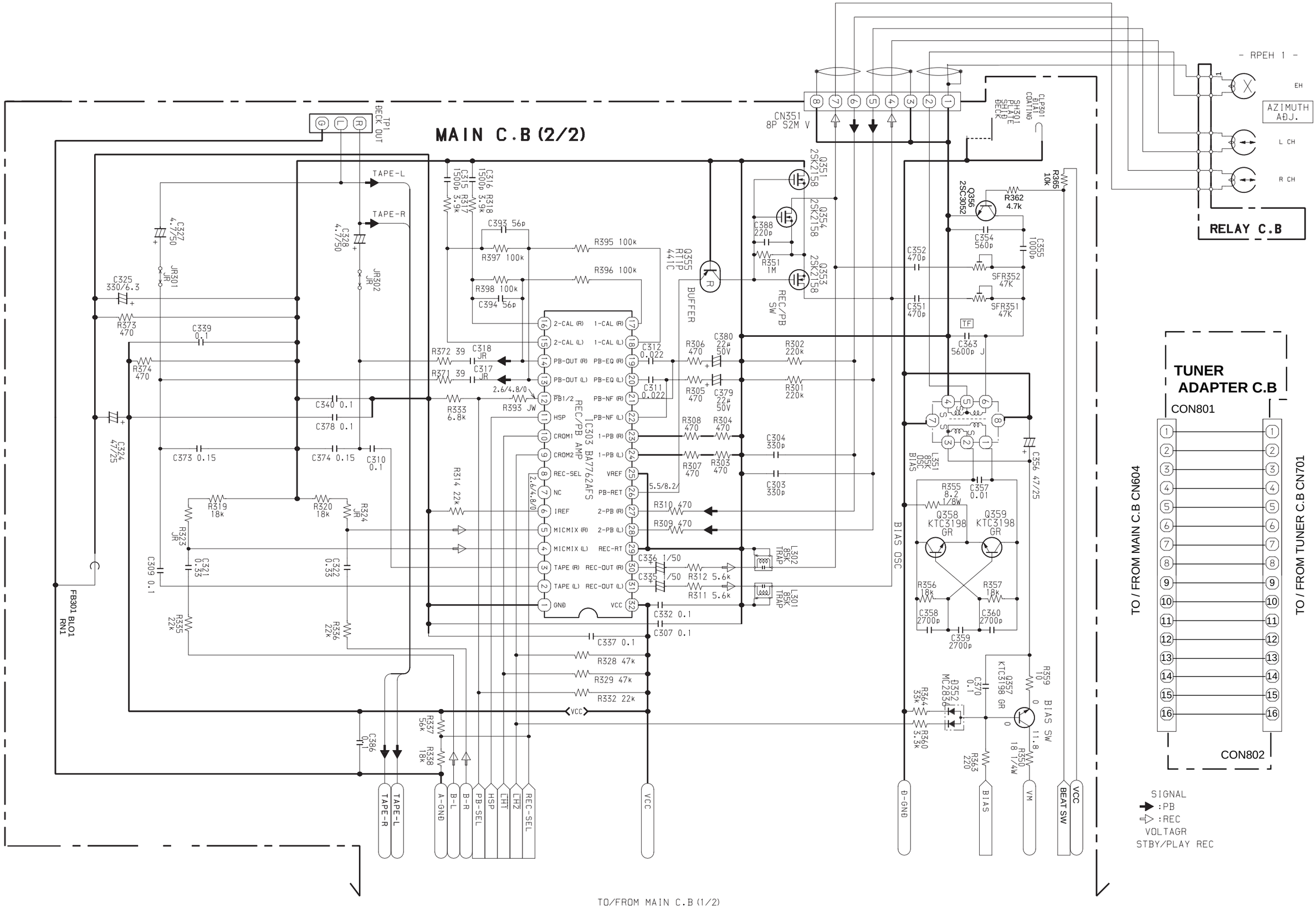
WIRING-2 (PT)

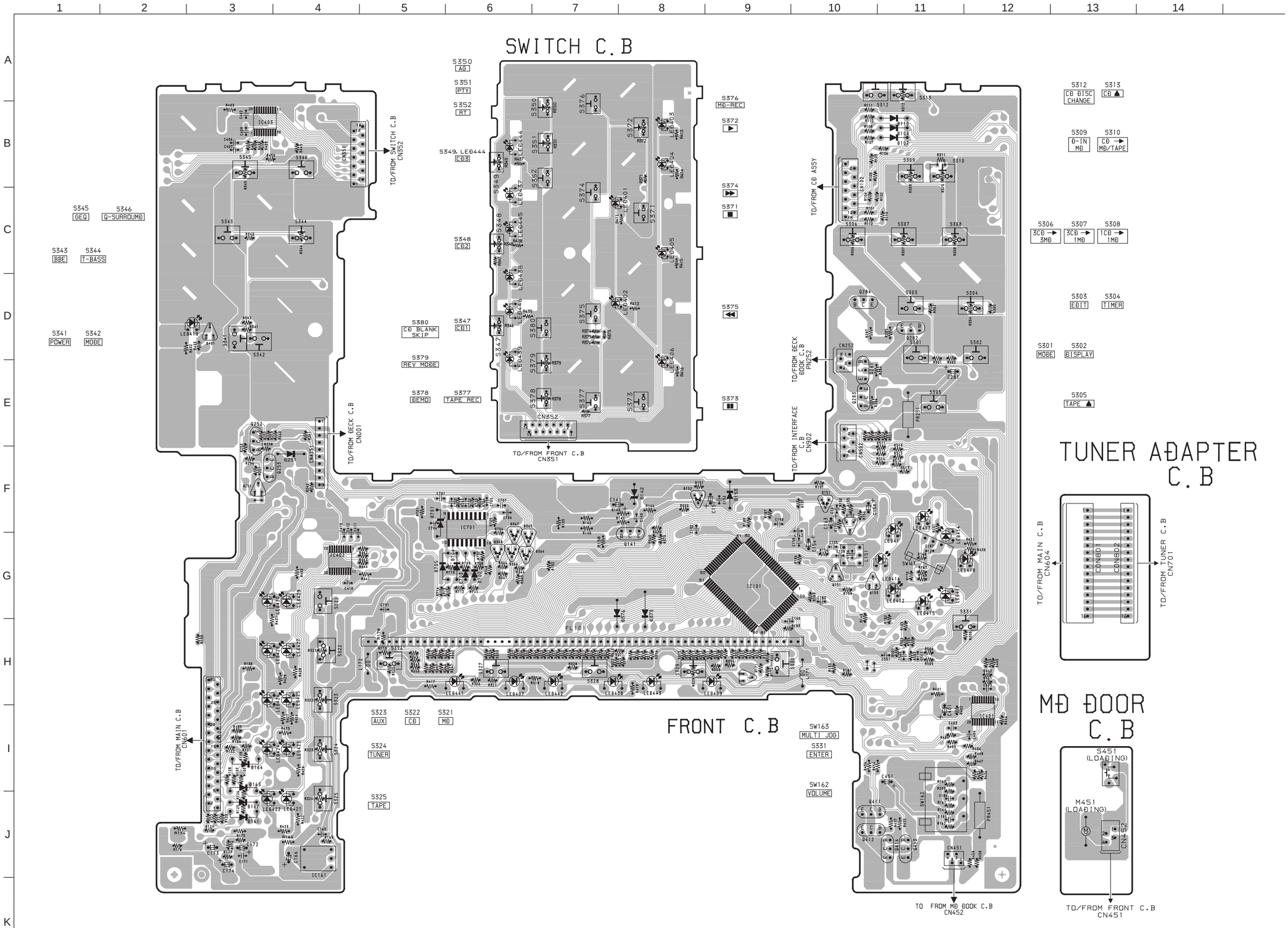


SCHEMATIC DIAGRAM-2 (PT)

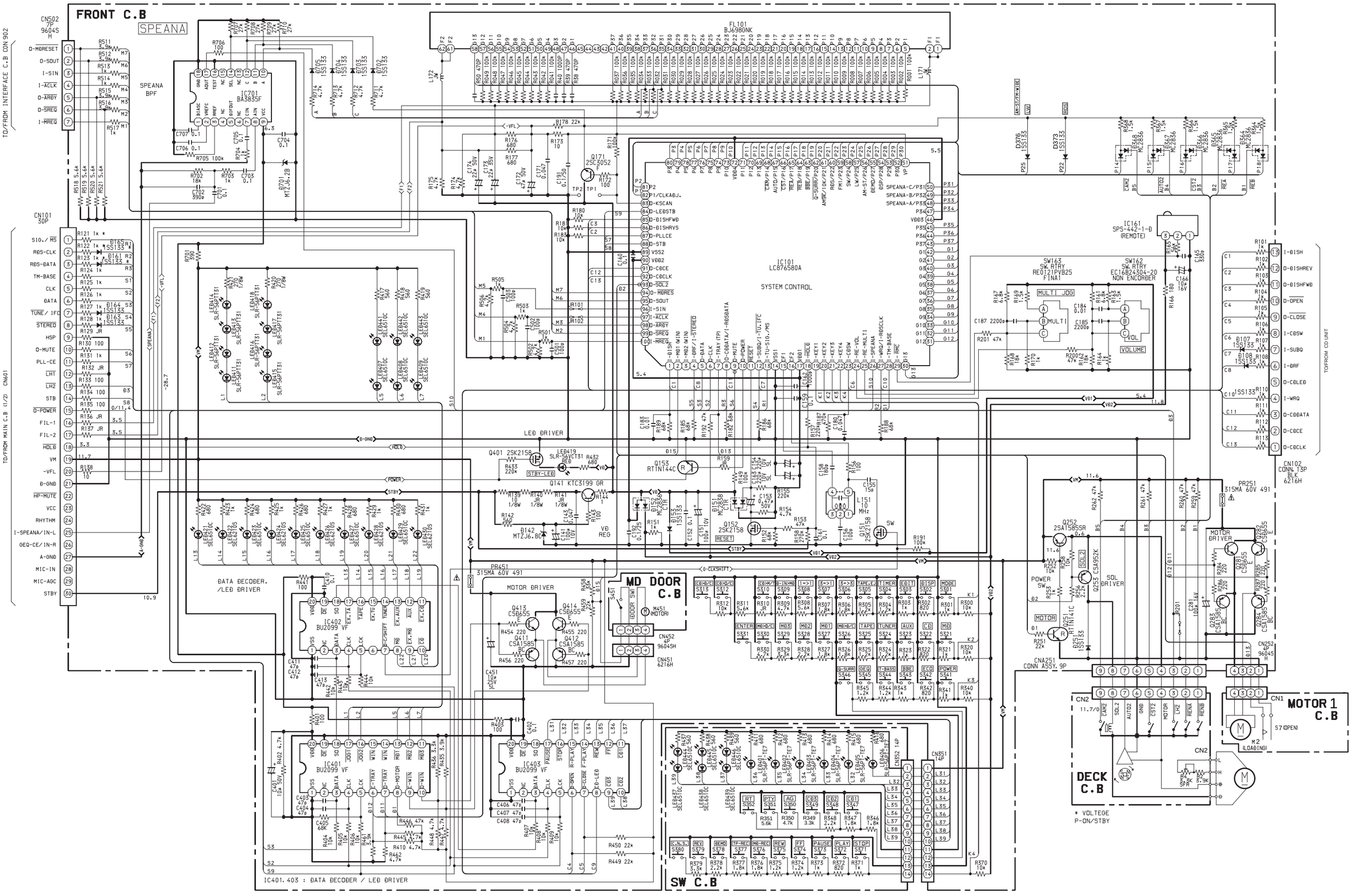


SCHEMATIC DIAGRAM-3 (MAIN 2/2)




SWITCH C.B
S350 AG
S351 PTY
S352 RT
S349, LED444 CD3
S348 CD2
S347 CD1
S380 CD BLANK SKIP
S379 REV MODE
S378 DEMO
S377 TAPE REC
S376 MD-REC
S372
S374
S371
S375
S373
TO/FROM SWITCH C.B CN352
TO/FROM FRONT C.B CN351
TO/FROM BECK C.B CN001
TO/FROM CD ASSY
TO/FROM BECK BOOK C.B PN252
TO/FROM INTERFACE C.B CN902
S345 GEQ
S346 Q-SURROUMD
S343 BBE
S344 T-BASS
S341 POWER
S342 MODE
S312 CD DISC CHANGE
S313 CD ▲
S309 Ð-IN MD
S310 CD → MD/TAPE
S306 3CD → 3MD
S307 3CD → 1MD
S308 1CD → 1MD
S303 EDIT
S304 TIMER
S301 MODE
S302 DISPLAY
S305 TAPE ▲
FRONT C.B
S323 AUX
S322 CD
S321 MD
S324 TUNER
S325 TAPE
SW163 MULTI JOG
S331 ENTER
SW162 VOLUME
TO/FROM MAIN C.B CN401
TO FROM MD DOOK C.B CN452
TUNER ADAPTER C.B
TO/FROM MAIN C.B CN604
CN801
CN802
TO/FROM TUNER C.B CN701
MD DOOR C.B
S451 (LOADING)
M451 (LOADING)
CN452
TO/FROM FRONT C.B CN451

SCHEMATIC DIAGRAM-4 (FRONT)



INTER FACE C.B

TO/FROM MAIN C.B
CN603

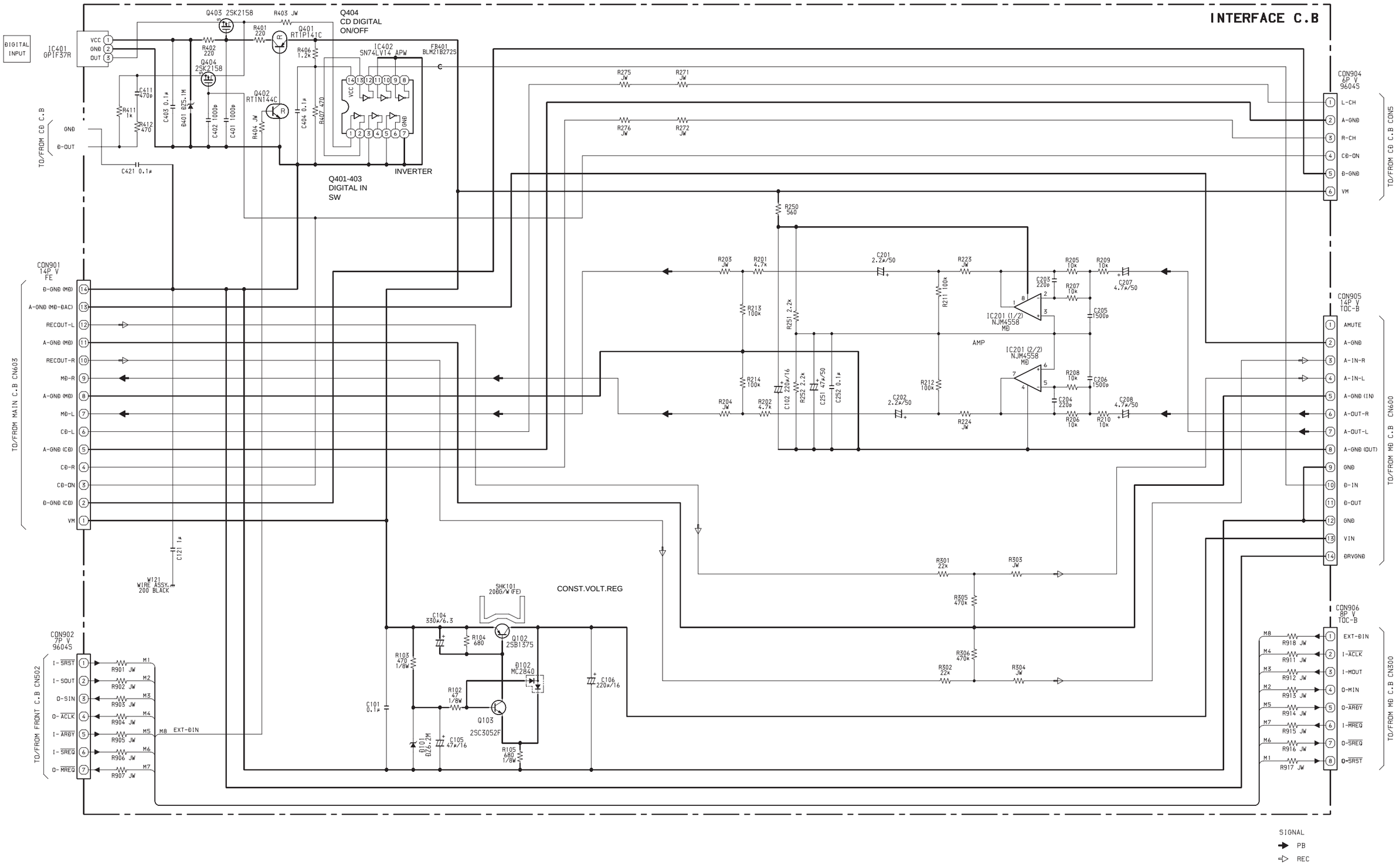
TO/FROM MĐ C.B
CN300

TO/FROM MĐ C.B
CN600

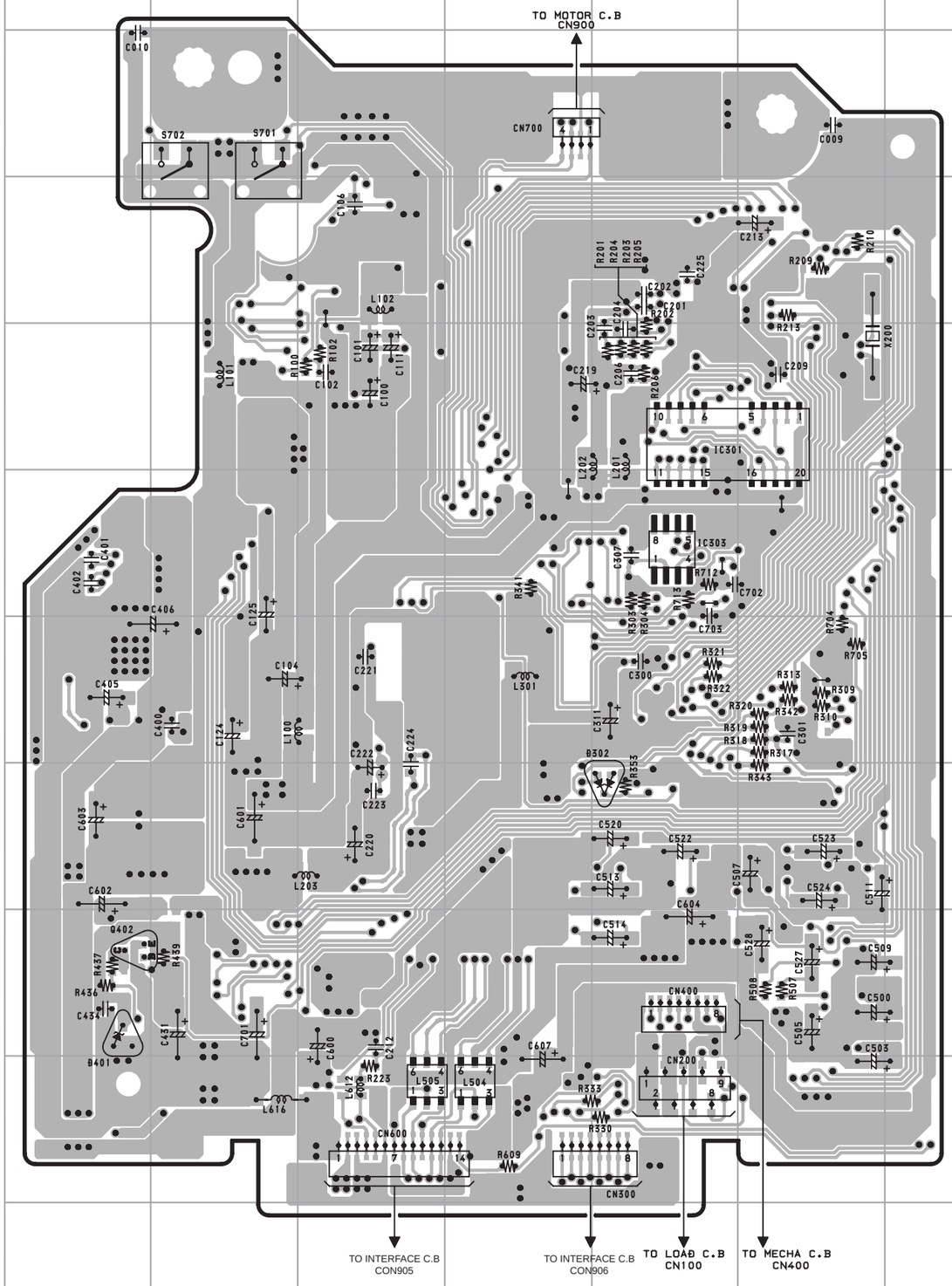
TO/FROM CĐ C.B

TO/FROM FRONT C.B
CN502

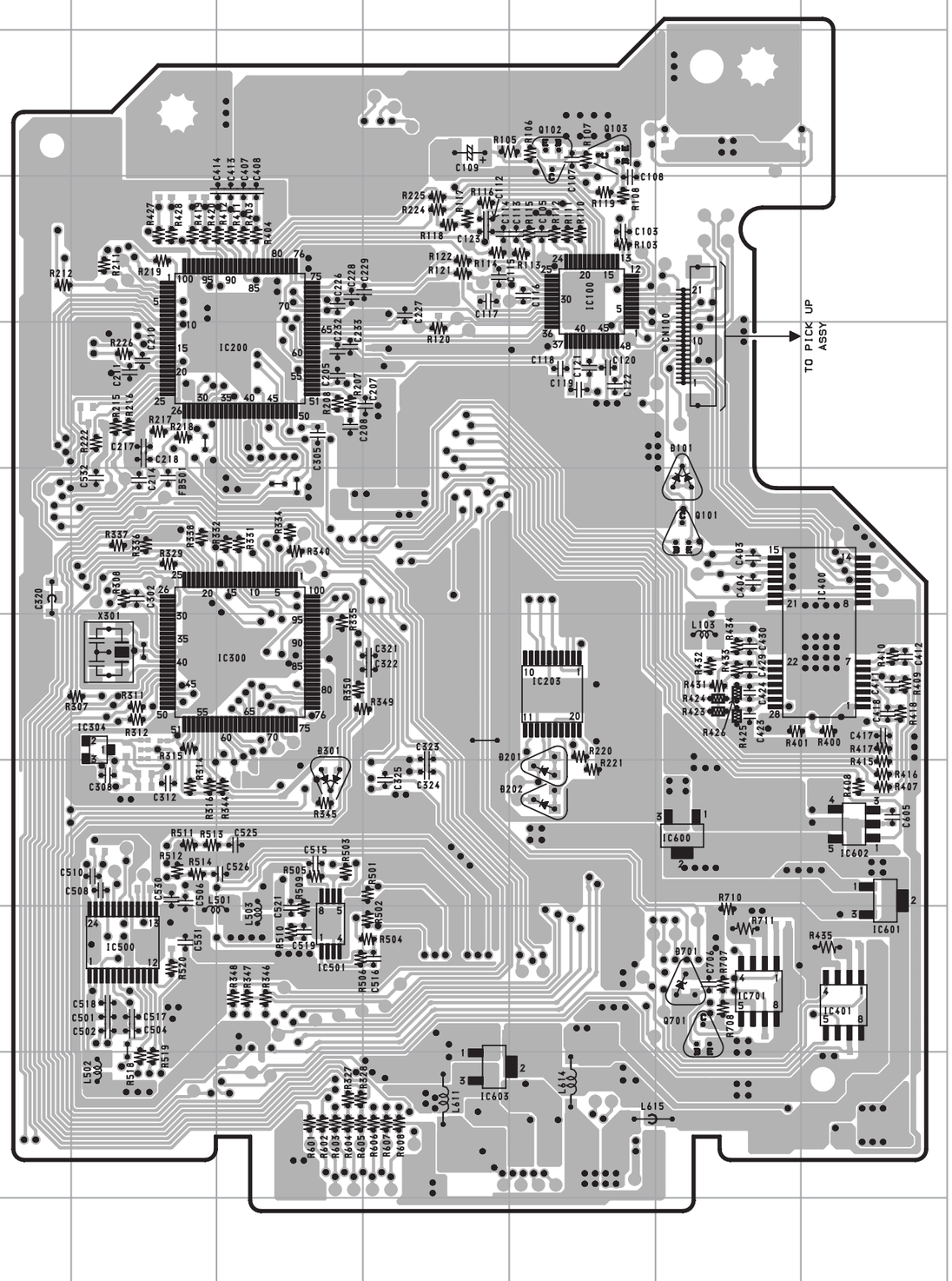
SCHEMATIC DIAGRAM-5 (INTERFACE)



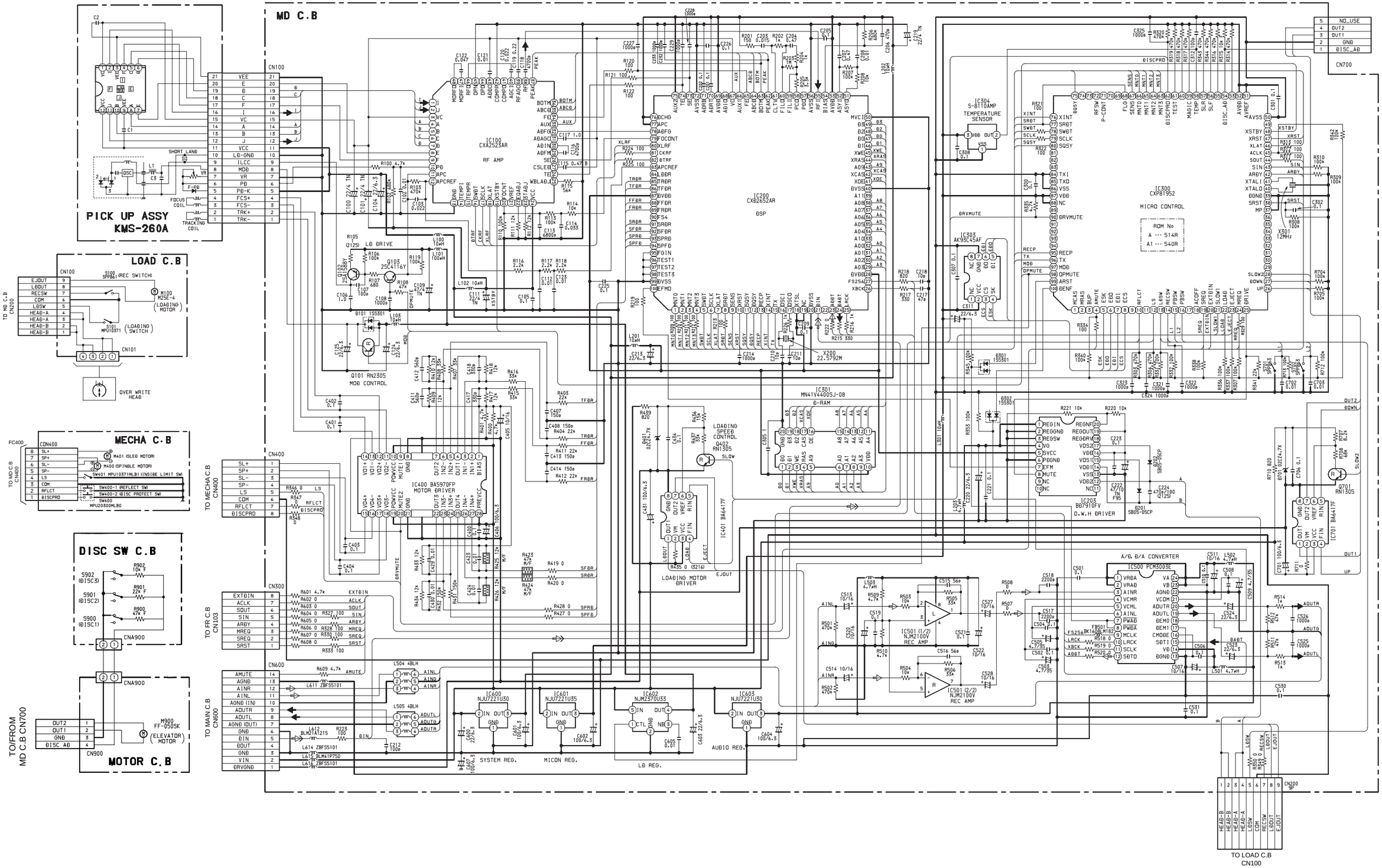
MD C.B(COMPONENT SIDE)

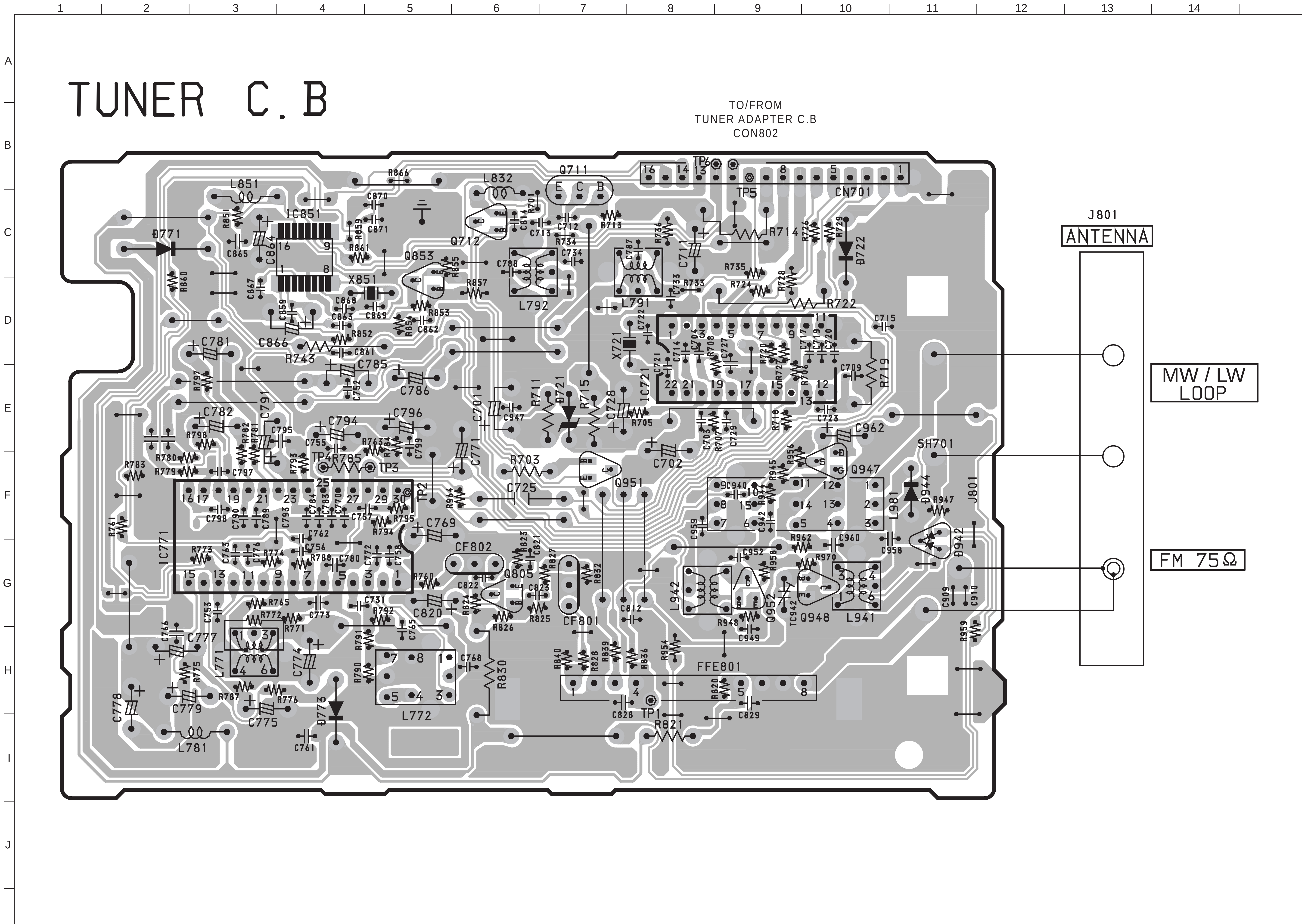


MD C.B (CONDUCTOR SIDE)

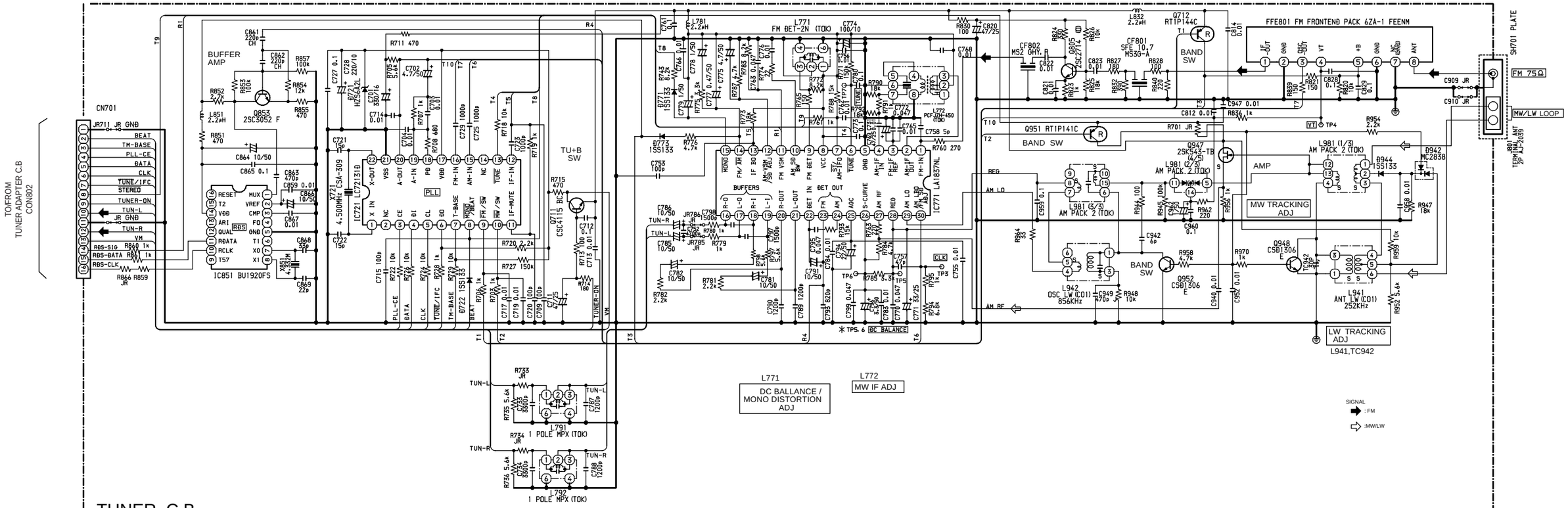


SCHEMATIC DIAGRAM-6 (MD)

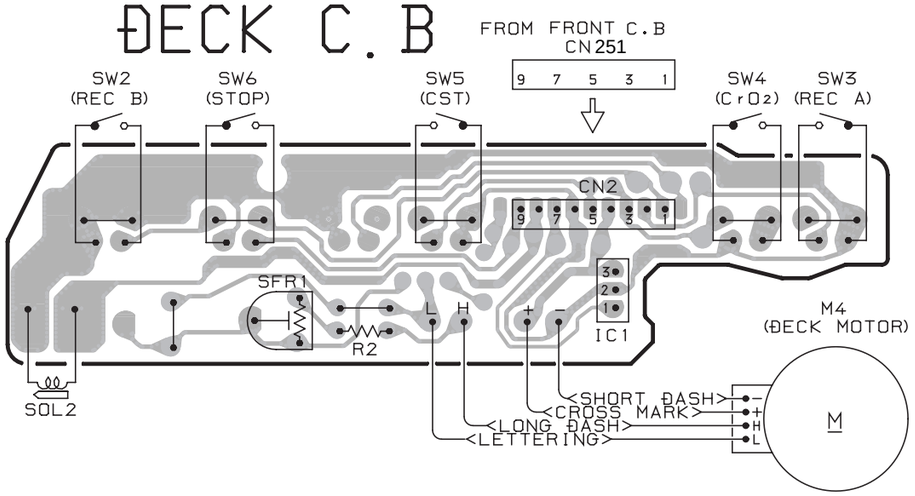



TUNER C.B
TO/FROM
TUNER ADAPTER C.B
CON802
J801
ANTENNA
MW / LW
LOOP
FM 75Ω
CN701
IC851
IC721
IC771
FFE801
CF801
CF802
SH701
TP1
TP2
TP3
TP4
TP5
TP6

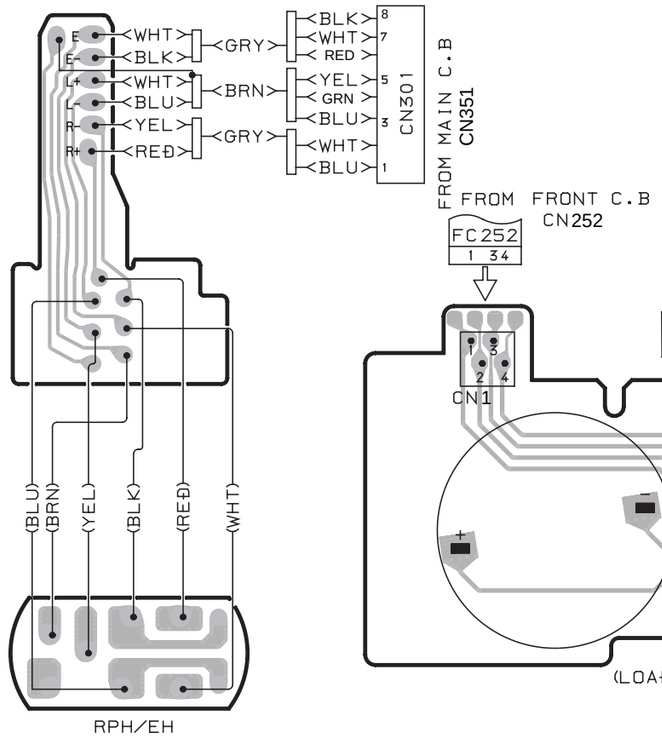
SCHEMATIC DIAGRAM-7 (TUNER)

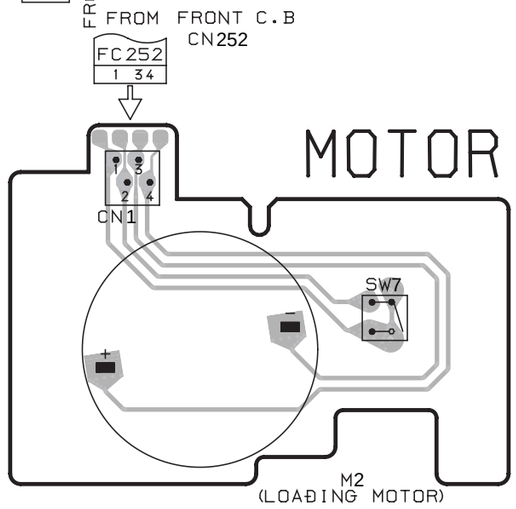


ĐECK C.B

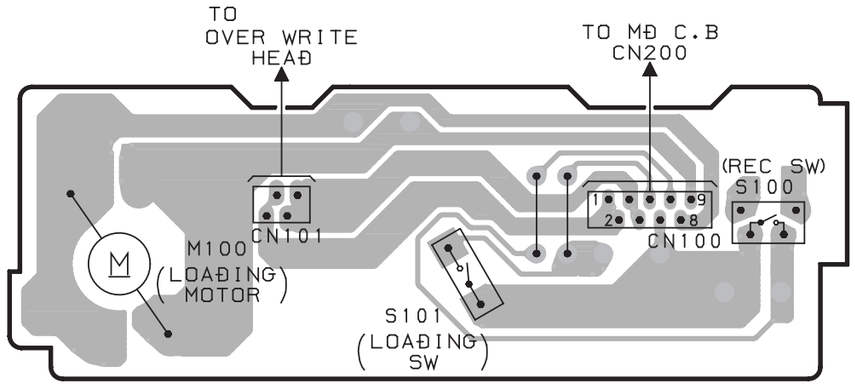


RELAY C.B



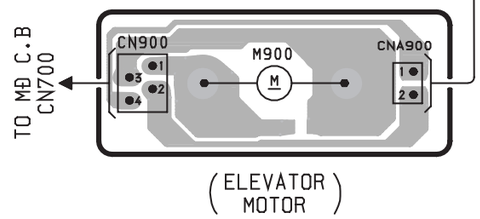


MOTOR-1 C.B

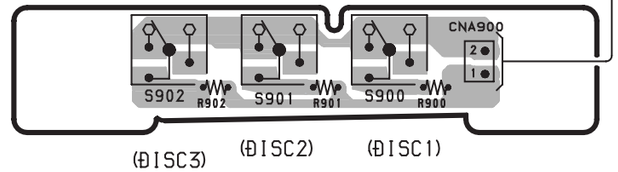


LOAĐ C.B

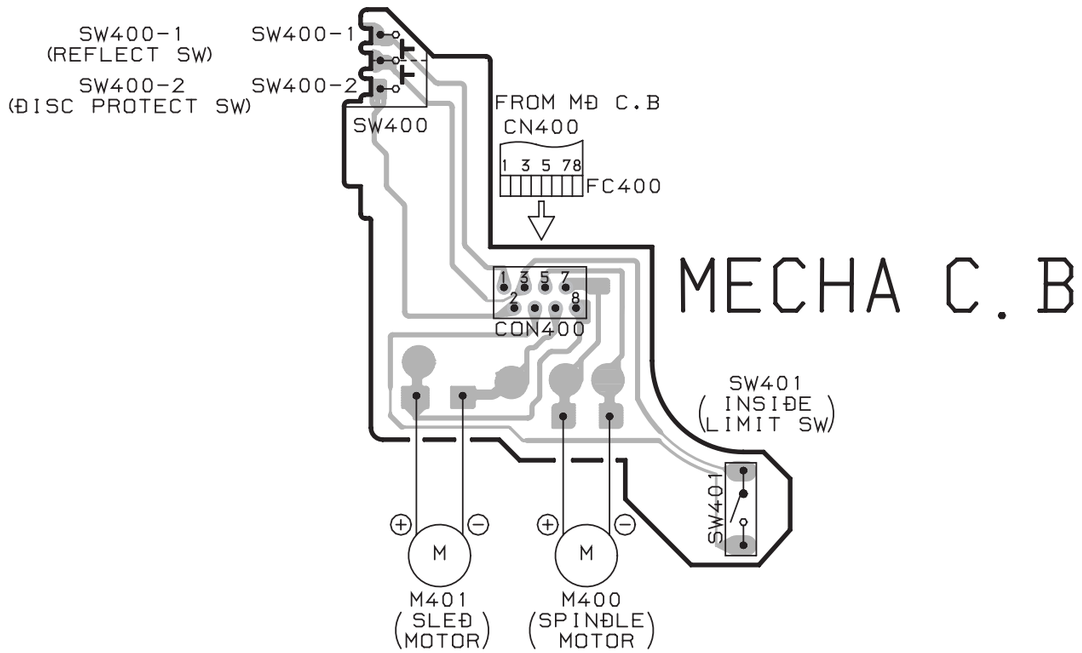
MOTOR C.B



ĐISC SW C.B

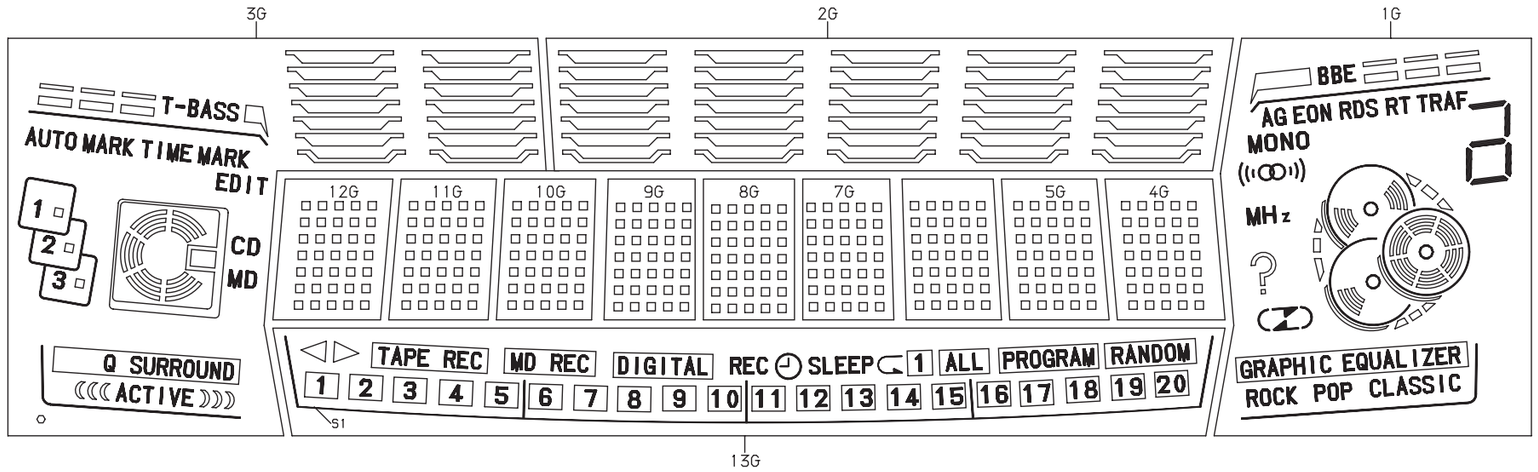


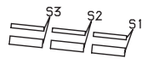
MECHA C.B

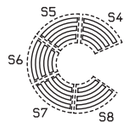


FL (BJ698GNK) GRID ASSIGNMENT/ANODE CONNECTION

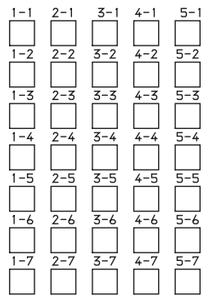
GRID ASSIGNMENT



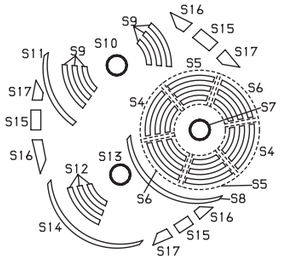


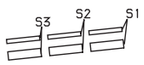


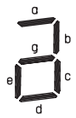
(3G)



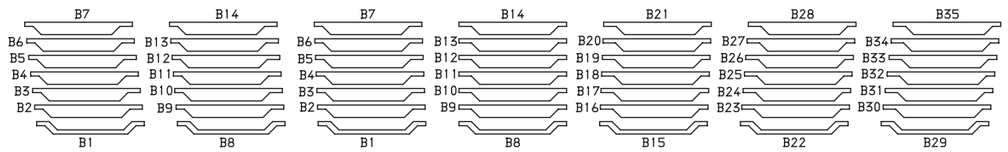
(12G ~ 4G)



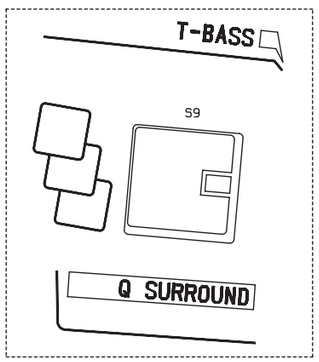




GRID ASSIGNMENT



(3G, 2G)



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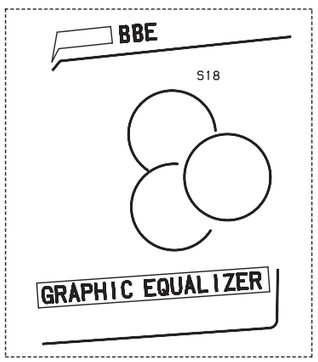


(1G)

ANODE CONNECTION

	13G	12G ~ 4G	3G	2G	1G
P1	1	1-1	B8	B29	S3
P2	2	2-1	B1	B22	S2
P3	3	3-1	B9	B15	S1
P4	4	4-1	B2	B8	AG
P5	5	5-1	B10	B1	MONO
P6	6	1-2	B3	B30	EON
P7	7	2-2	B11	B23	RDS
P8	8	3-2	B4	B16	RT
P9	9	4-2	B12	B9	TRAF
P10	10	5-2	B5	B2	b
P11	11	1-3	B13	B31	c
P12	12	2-3	B6	B24	a, g, d
P13	13	3-3	B14	B17	e
P14	14	4-3	B7	B10	((CD))
P15	15	5-3	EDIT	B3	MHz
P16	16	1-4	TIME MARK	B32	?
P17	17	2-4	AUTO MARK	B25	S17
P18	18	3-4	S1	B18	S15
P19	19	4-4	S2	B11	S16
P20	20	5-4	S3	B4	S10
P21	RANDOM	1-5	1	B33	S9
P22	PROGRAM	2-5	□ (1)	B26	S11
P23	ALL	3-5	2	B19	S7
P24	1	4-5	□ (2)	B12	S5
P25	↵	5-5	3	B5	S4
P26	SLEEP	1-6	□ (3)	B34	S6
P27	◷	2-6	S4	B27	S8
P28	REC	3-6	S5	B20	S13
P29	DIGITAL	4-6	S6	B13	S12
P30	MD REC	5-6	S7	B6	S14
P31	TAPE REC	1-7	S8	B35	CLASSIC
P32	▷	2-7	CD	B28	POP
P33	◁	3-7	MD	B21	ROCK
P34	—	4-7	(((ACTIVE)))	B14	☽
P35	—	5-7	○	B7	⏎
P36	—	—	—	—	☾
P37	S1	—	S9	—	S18

TEST MODE < MD >

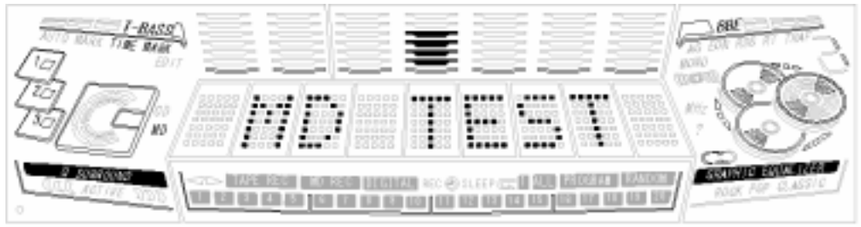
1. How to Start Up the MD Test Mode

While pressing the MD function key, insert the AC plug to the power outlet.

Note: 1) The CX-NH560 can start up the test mode ignoring the mechanism abnormality even if any abnormality is occurring. If the abnormality occurs, disconnect the AC plug quickly.
2) Normal playback/recording cannot be performed while the test mode is in progress.

2. Checking the MD Test Mode

Indication on display



About five seconds later after the test mode has started up, the following message appears and the test mode becomes ready to be operated.

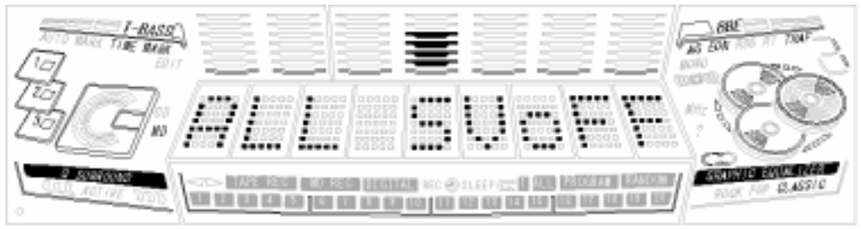
3. How to Exit the MD Test Mode

1) Press the “MD EJECT” key and remove the disc.
2) Disconnect the AC plug.

* If the machine exits the MD test mode by any methods other than the procedure as described above, the machine may operate abnormally when the POWER is turned on next time. In such a case, disconnect the AC plug.

4. How to Switch to Servo Standby Mode

When the test mode has been established, the mode is switched to the servo standby mode by pressing the STOP key. (“ALL SVoFF” is displayed.) Switch this mode to each mode.



Returns to “ALL SVoFF” by pressing the STOP key from each operation.

5. Checking the Sled Operation

1) Pickup moves to the outmost track by pressing the F.SKIP key in the “ALL SVoFF”. The message “T.SLEDfwd” is displayed.
2) Pickup moves to the innermost track by pressing the B.SKIP key in the “ALL SVoFF”. The message “T.SLEDrvs” is displayed. The graphics equalizer “CLASSIS” on the display lights by turning on the INSIDE LIMIT switch.

6. Checking the Laser Output

1) The laser power output level can be switched by every pressing of the EDIT key in the “ALL SVoFF”. The indication is switched as shown below.

2) After confirming the message, press the STOP key to display the “ALL SVoFF”.

7. Checking the Operation of Loading Mechanism/OWH

The operations of the loading mechanism and the OWH are checked by the procedure below.

Method 1: Insert a MO disc to the desired slot among the magazines 1 to 3, and press the MD direct play key of the slot. After loading, confirm that the EON and the AG on the display lights off and the OWH moves up.

Method 2: Loading is started by pressing the 1CD→1MD key in the “ALL SVoFF”. The loading can be performed without a disc. When a disc is loaded, insert the disc into the slot that the elevator stops at. The OWH moves down by pressing the 1CD→1MD key in the loading status, and the OWH moves up by pressing the MD EJECT key.

1CD→1MD key.....Loading/OWH DOWN MD EJECT key.....Unloading/OWH UP

* The status of the loading mechanism and OWH can be checked by FL indication.

Status of each indication	Status of loading mechanism and OWH
EON is displayed only	Loading/OWH DOWN
Both AG and EON lights off	Loading/OWH UP
Both AG and EON lights on	Unloading/OWH UP

* The AG indicates the loading SW. The EON and REC SW indicate the status of the REC SW.

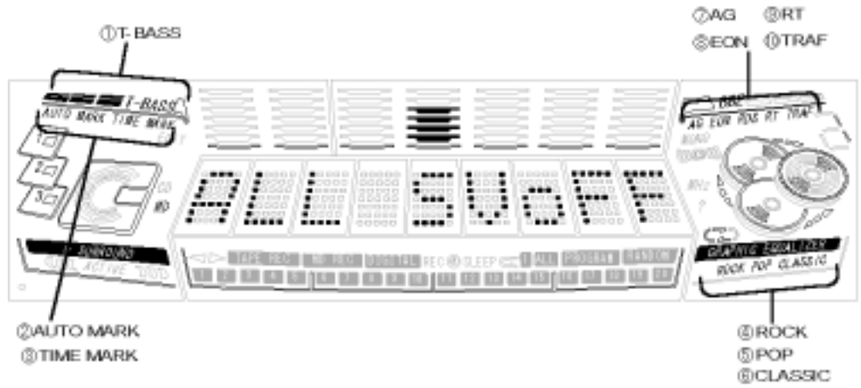
Note: The loading cannot be performed by the MD direct play key without a disc (The disc switch is off.). (The loading can be performed by 1CD→1MD key.)

8. Checking the Indication and Turning On/Off of Each Switch

The status of each switch can be confirmed by the indication on the display.

	Indication on the display	Function name	Light on	Light off
①	T-BASS	Laser power	Indicated by the level meter of the three steps (READ-1/2-WRITE)	
②	AUTO MARK	Disc mode	MO DISC (GROOVE)	
③	TIME MARD	Disc mode	PIT DISC (PIT)	
④	ROCK	Write-protection detection SW	REC protection	REC OK
⑤	POP	Reflectance detection SW	High reflectance (PIT DISC)	Low reflectance (MO DISC)
⑥	CLASSIC	INSIDE LIMIT SW	SW ON (innermost track)	SW OFF
⑦	AG	LOADING SW	SW OFF	SW ON
⑧	EON	REC SW	SW OFF	SW ON
⑨	RT	Elevator SW (S701)	SW OFF	SW ON
⑩	TRAF	Elevator SW (S702)	SW OFF	SW ON

Note: The SW ON indicates the status when the switch is pressed.
The loading status is shown by the combination of the AG and EON.
The elevator status is shown by the combination of the RT and TRAF.



9. Checking the Servo Operation

9-1. Checking the Focus Search/Spindle Kick 1 (Check of S-Curve)

1) The focus search operation and the spindle kick operation can be performed continuously by pressing the REPEAT key in the “ALL SVoFF” state. During this check, the message “FOCUS CHK” is displayed under this conditions. Because these operations are repeated in this setup regardless whether a disc is inserted or not, the S-curve can be checked when a disc is inserted.
2) After checking these operations, press the STOP key to show the message “ALL SVoFF”.

9-2. Checking the Focus Search/Spindle Kick 2

1) The focus search operation and the spindle kick operation can be performed continuously by pressing the PLAY key in the “ALL SVoFF” without the inserted disc. During this check, the message “FOCUS SCH” is displayed.
2) After checking these operations, press the STOP key to show the message “ALL SVoFF”.

9-3. Checking the Focus Servo

1) Insert a disc.
2) Press the MODE (MD) key until the following servo mode is selected in accordance with the inserted disc.

   - MO disc..... “SEL GRV” indication on the display and “AUTO MARK” lights
   - PIT disc ..... “SEL PIT” indication on the display and “TIME MARK” lights

3) Press the PLAY key.
   When the focus servo is operating normally, the message “FOCUS ON!” is displayed after “FOCUS SCH”.
4) After the checking is complete, press the STOP key to display “ALL SVoFF”.

9-4. Checking the Conditions That All Servos Are ON

1) When the ENTER key is pressed while the focus servo is locked to ON, the tracking servo is turned on and all servos work. When all servos are normal, the message “ALL SV ON” is displayed.
2) After the check is complete, press the STOP key to display “ALL SVoFF’.

(ELECTRICAL ADJUSTMENT)

All adjustments and checks of the MD disc are performed using the test mode.

1. Temperature Compensation Adjustment

* In principle, do not perform the temperature compensation adjustment during the normal maintenance or repair work. If the adjustment value is found out that it is far out of the specification values shown in this service manual, perform the temperature compensation adjustment under the environment where the ambient temperature can be precisely measured.

• Test Point: Indication on the display
• Jig: Thermometer
• Adjustment procedure

1) Start up the MD test mode then press the STOP key to display the message “ALL SVoFF”.
2) Press the DISPLAY key to switch the display to “TEMP=$**”.
3) Press the PAUSE key to switch the display to “T+**C:+00”.
4) Place the thermometer near the MD mechanism to measure the room temperature.
5) Press the B.SKIP and F.SKIP keys until the indication value on the thermometer and the indication value ** on the display are the same. After the two values are adjusted for the unity value, press the ENTER key to set the value.
6) Press the STOP key to display the message “ALL SVoFF”.

2. Laser Power Adjustment

• Test Point: Pickup laser output
• Jig: Laser power meter (The meter capable of measuring up to 10 mW)

2-1. Playback Laser Power Adjustment

• Adjustment procedure

1) Press the EDIT key while the message “ALL SVoFF” appears, to change the display to “LA READ”.
2) Press the PAUSE key once to display the “LASER = $**”.
3) Measure the laser output of the pickup unit using a laser power meter. Adjust the laser output value for 0.68±0.003 mW by pressing the B.SKIP and F.SKIP keys, and press the ENTER key.
4) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.

2-2. Recording Laser Power Adjustment

1) Press the EDIT key three times while the message “ALL SVoFF” appears, to change the display to “LA WRITE”.
2) Press the PAUSE key once to display “LASER=$**”.
3) Measure the laser output of the pickup unit using a laser power meter. Adjust the laser output value for 6.8±0.03 mW by pressing the B.SKIP and F.SKIP keys. Press the ENTER key.
4) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.

Note: If the laser output exceeds 7.0 mW, the pickup may be damaged.

3. Auto Sequence Adjustment (EFB/IVR/Focus AGC/Tracking AGC Adjustments)

• Test Point: Indication on the display
• Test Disc: MDW-60, TGYS-1 or equivalent

3-1. Adjusting the MO Disc

• Adjustment procedure

1) Load the MDW-60.
2) Press the MODE (MD) key to display “SEL GRV”.
3) When the MD function key is pressed, “AUTO ADJ” is displayed and the adjustment is started. When the adjustment is complete, the message “DONE” is displayed. (If “FAILD” is displayed, it shows that the adjustment has failed.)
4) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.

3-2. Checking the IVR, EFB, Focus/Tracking/Sled Gains of the MO Disc

• Adjustment procedure

1) Move the pickup to the center track or around the center track of a disc using the B.SKIP and F.SKIP keys.
2) Press the PLAY key to display “FOCUS ON!”.
3) Press the ENTER key to switch the mode to “ALL SV ON”.
4) Press the STOP key and press the DISPLAY key twice. Confirm that the indication value on the display “I$**:E$!!” is within the range as follows. (hexadecimal)
   I$ “**” ..... 03 to 09
   E$ “◇◇” ..... 09 to 15
5) Press the DISPLAY key again.
   Confirm that the indication value on the display “f**t##s!!” is within the range as follows. (hexadecimal)
   f “**” ..... 1A to 45
   t “##” ..... 15 to 40
   s “△△” ..... 15 to 40
6) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.

3-3. Adjusting the PIT Disc

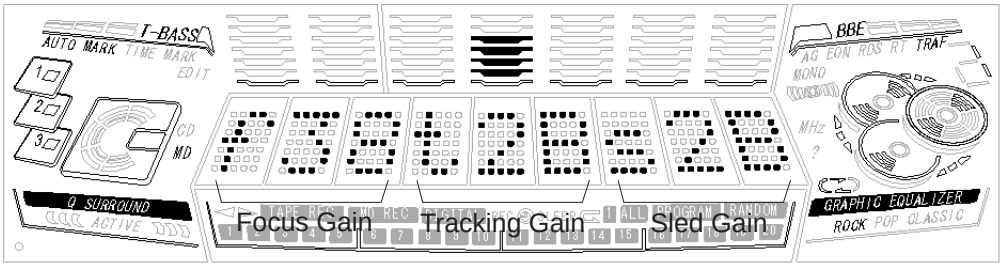
• Adjustment procedure

1) Load the TGYS-1.
2) Press the MODE (MD) key to display “SEL PIT”.
3) Press the MD function key to display “AUTO ADJ”. After the adjustment is complete, “DONE” is displayed. (If “FAILD” is displayed, it shows that the adjustment has failed.)
4) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.

3-4. Checking the IVR, EFB, and the Focus/Tracking/Sled Gains

• Adjustment procedure

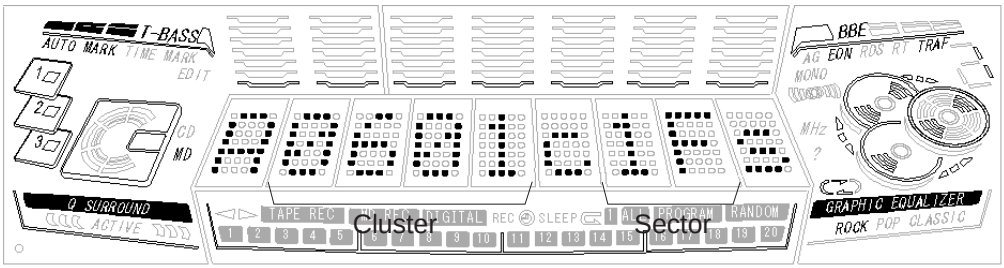
1) Move the pickup to the center track or around the center track of a disc using the B.SKIP and F.SKIP keys.
2) Press the PLAY key to display “FOCUS ON!”.
3) Press the ENTER key to switch the mode to “ALL SV ON”.
4) Press the STOP key and press the DISPLAY key twice. Confirm that the indication value on the display “I$**:E$!!” is within the range as follows. (hexadecimal)
   I$ “**” ..... 14 to 19
   E$ “◇◇” ..... 09 to 15
5) Press the DISPLAY key again.
   Confirm that the indication value on the display “f**t##s△△” is within the range as follows. (hexadecimal)
   f “**” ..... 1A to 45
   t “##” ..... 15 to 40
   s “△△” ..... 15 to 40
6) After the adjustment is complete, press the STOP key to display “ALL SVoFF”.



4. Error Rate Check (PIT Disc)

• Test Point: Check the indication on the display
• Test Disc: TGYS-1 or equivalent
• Adjustment procedure

1) Load the TGYS-1.
2) Move the pickup to the center track or around the center track of a disc using the B.SKIP and F.SKIP keys.
3) Press the MODE (MD) key to display “SEL PIT”.
4) Press the PLAY key to display “FOCUS ON!”.
5) Press the ENTER key to display “ALL SV ON”. Press the DISPLAY key once to confirm that the address indication advances constantly.
6) Press the DISPALY key again to display the playback error rate. Confirm that the data [****:***] of the underlined portion is “0030” or less.
7) After the check is complete, press the STOP key to display “ALL SVoFF”.



5. Recording/Playback Error Rate Check (MO Disc)

• Test Point: Indication on the display
• Test Disc: MDW-60
• Adjustment procedure

1) Load the MDW-60.
2) Move the pickup to the center track or around the center track of a disc using the B.SKIP and F.SKIP keys.
3) Press the CD function key. The recording starts automatically from the 600 cluster.
4) After the recording is performed for about 15 seconds, press the STOP key.
5) When the VIDEO/AUX function key is pressed, the pickup moves to the 600 cluster or its around and the mode is switched to “ALL SV ON” (address is shown on the display.) Therefore, press the DISPLAY key after the address indication is changed to the 600 cluster or higher. Confirm that the data [****:***] of the underlined portion is “0030” or less.
6) After the adjustment is complete, press the STOP key to return to “ALL SVoFF”.

TEST MODE < CD >

1. How to Start the CD Test Mode

While pressing the function CD button, insert the AC plug to the wall outlet. The message “CD TEST” appears on the FL tube and the test mode starts.

2. How to Exit the CD Test Mode

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

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

3. Function Descriptions on the CD Test Mode

After starting the test mode, press the desired button to check the following items.

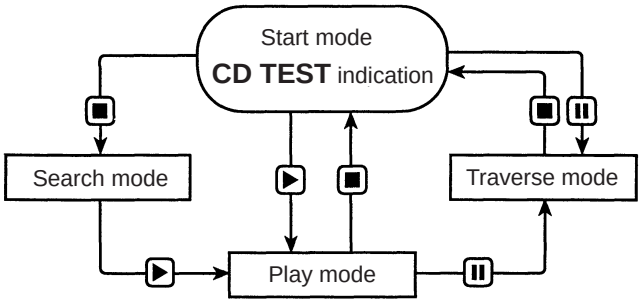
Mode	Operation	FL indication	Function	Contents
Start mode (Sled mode)		Lights	• Initial status	
	⏮ ⏭ button	**CD TEST**	• The pickup moves to the outermost track • The pickup moves to the innermost track * Note 1 (Normal operation as long as the message CD is being played)	• Sled servo • Sled operation check
Search mode	■ button	**CD**	• Normal luminescence of laser diode (CD block power ON) • Continuos focus searching * Note 2 (The pick-up lens repeats the full-swing up and down motions.) • Spindle motor continuos kick rotation.	• APC circuit check • Laser current measurement Focus servo • Focus search waveform check • Focus error waveform check (FOK/FZC does not monitor in search mode)
Play mode	▶ button	**CD1Tr**	• Normal playback • When the TOC reading is not possible, Focus search is continued * Note 2 • Spindle motor kick rotation continues.	• Focus servo/tracking servo • CLV servo/Sled servo • FOK (DRF) check
Traverse mode	⏸ button	**CD1Tr**	• Turn off the tracking servo	• Tracking servo OFF • Tracking balance (radial balance) check

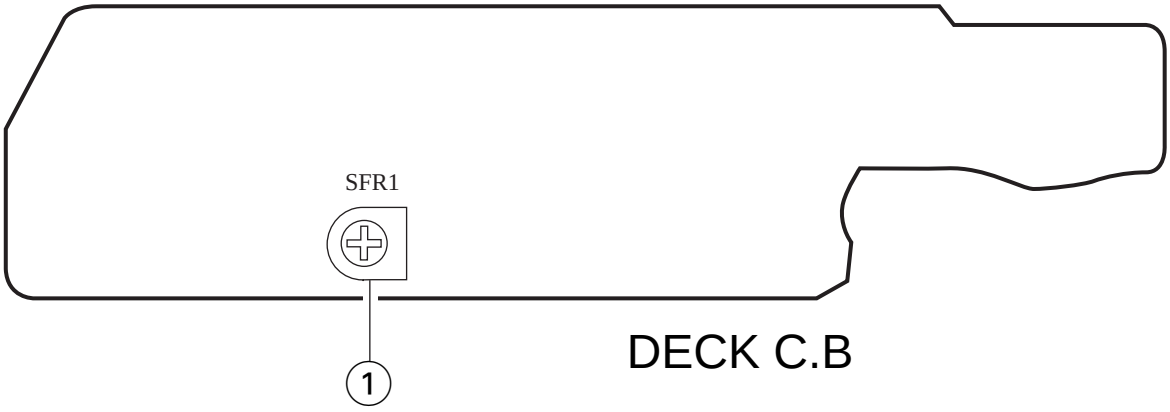
* Note 1: Be careful not to damage the gear because the sled motor rotates when the ⏮ or ⏭ button is pressed even if the pick-up is located in the innermost track or the outermost track.
The sled movement in the test mode is different from the normal operation. The sled moves to the outer track by pressing the ⏮ button and moves to the inner track by pressing the ⏭ button.

* Note 2: The driver IC (IC501) heats up so that the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that the tracking servo cannot be locked-in under such circumstance.
In such a case, turn off the main power. After cooling down the machine for 10 minutes heat dissipation, restart the machine.

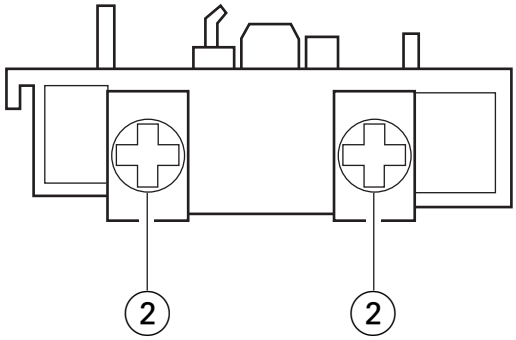
4. Overview of Operation

The each mode can be operated one after another in the order that is shown by the arrow mark in the illustration from the “Start” mode. Change the modes as shown.

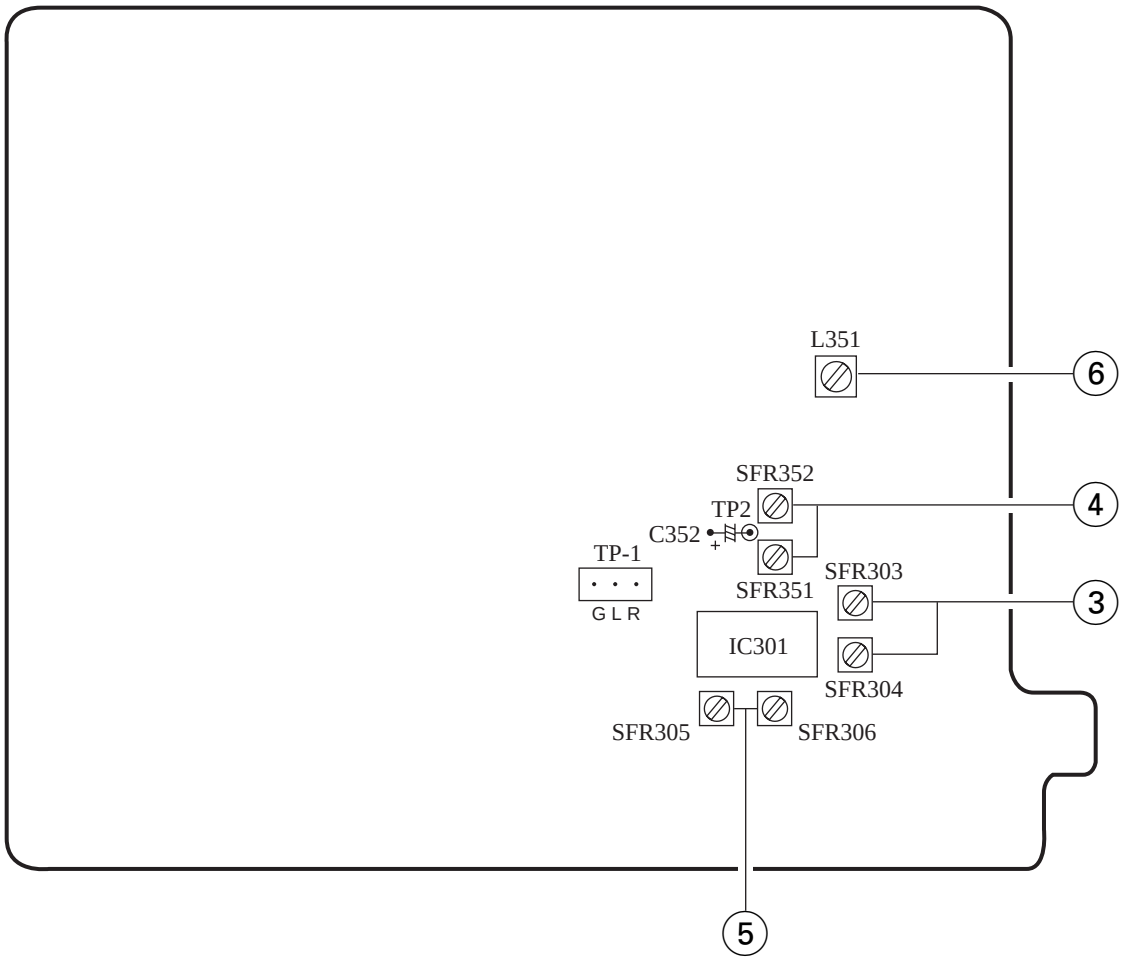




R.P.E HEAD



MAIN C.B



1. Tape Speed Adjustment
   Settings:
   - Test tape: TTA-100
   - Test point: TP8, 9
   - Adjustment location: SFR1

   Method: Playback the test tape by DECK2 and adjust SFR1 so that the frequency counter reads 3000Hz±5Hz. Check that the counter reading in the REV mode is within the range of ±45Hz of that in the FWD mode.

2. Azimuth Adjustment
   Settings:
   - Test tape: TTA-330
   - Test point: TP8, 9
   - Adjustment location: Head azimuth adjustment screw

   Method: Playback the 10kHz signal of the test tape and adjust the adjustment screw so that the output becomes the -5dB point below the maximum reading. The adjustment must ends with the clockwise rotation of the adjustment screw. Perform this adjustment in both FWD and REV directions. Fix the adjustment screw with adhesive agent upon completion of adjustment.

3. PB Sensitivity Check
   Settings:
   - Test tape: TTA-200
   - Test point: TP8, 9

   Method: Play back the test tape and check SFRs so that the output level of the TP1 becomes 280mV±3mV.

4. REC/PB Frequency Response Adjustment
   Settings:
   - Test tape: TTA-602
   - Test point: TP8, 9
   - Input signal: 315Hz/10kHz (LINE IN)
   - Adjustment location: SFR351 (Lch) SFR352 (Rch)

   Method: Establish the record mode. Input the 315Hz and the 10kHz signals from LINE IN with the input level so that TP1 has the signal level of 12mV. Record the 1kHz and the 10kHz signals, then play them back. Adjust SFR so that the output difference between the 315Hz and the 10kHz signals becomes 0dB±0.5dB.

5. REC/PB Sensitivity Check
   Settings:
   - Test tape: TTA-602
   - Test point: TP8, 9
   - Input signal: 1kHz /10kHz (LINE IN)

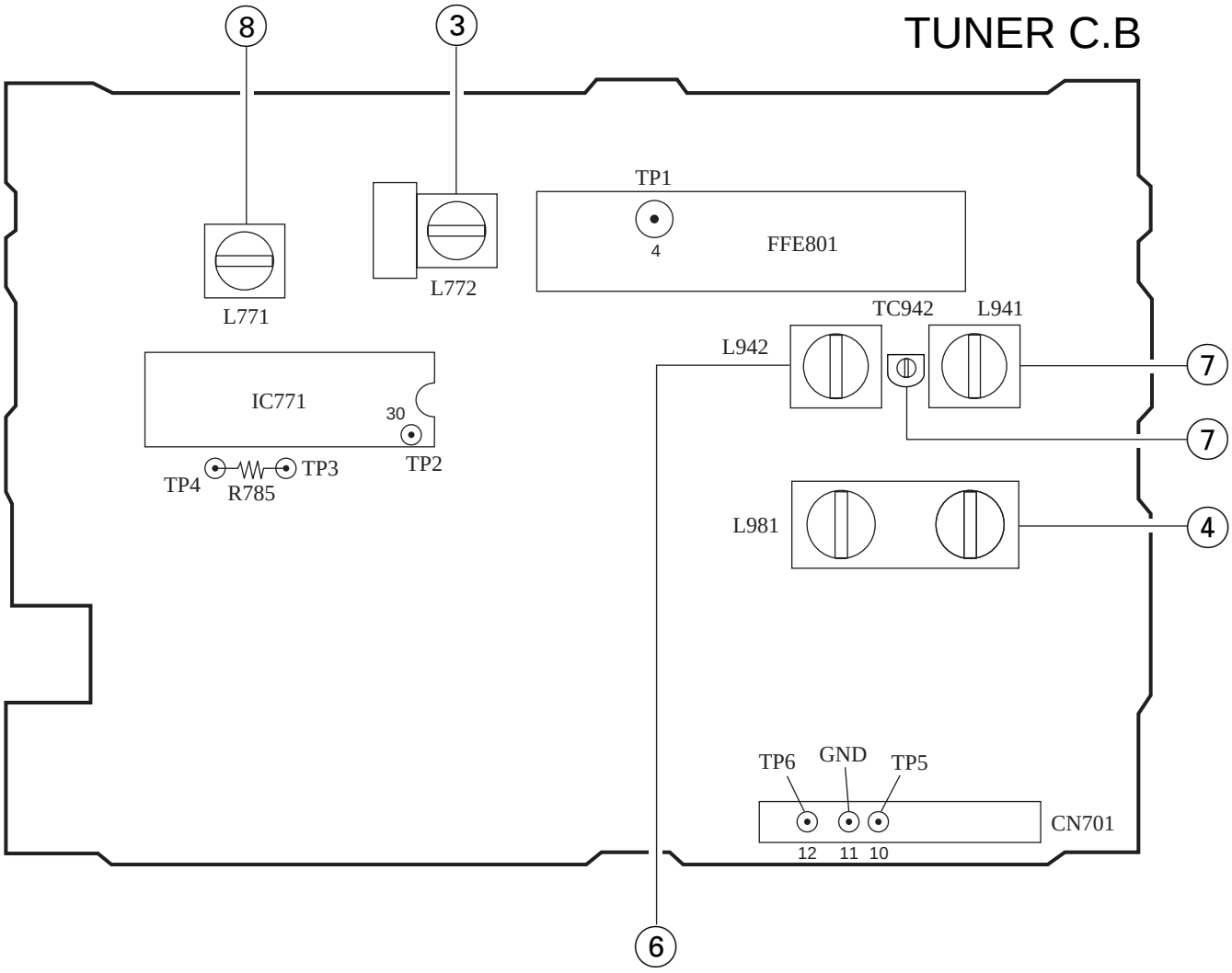
   Method: Establish the record mode. Input the 1kHz signal from LINE IN with the input level so that TP1 has the signal level of 12mV. Record the 1kHz signal, then play it back. Check SFR so that the output level becomes -1dB±0.5dB.

PRACTICAL SERVICE FIGURE

< DECK SECTION >

Tape speed:	3000Hz±5Hz	
Wow & flutter: (W.R.M.S)	Less than 0.18%	
Distortion (REC/PB):	Less than 2% (NORM, CrO_2)	
Noise level (PB):	Less than 20mV (DOLBY NR OFF, NORM)	
	Less than 35mV	
Erasing ratio:	More than 60dB (DOLBY NR ON, CrO_2)	
Test tape:	NORMAL	TTA-100
		TTA-330
		TTA-602
	CrO_2	TTA-200

< TUNER SECTION >



1. Clock Frequency Check
   Settings: • Test point: TP2 (CLK IC770 pin30)
   Method: Set to MW 1602kHz and check that the test point becomes 2052kHz±45Hz (EZ).

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 IF Adjustment
   Settings: • Test point: TP5, TP6
   L772 ..... 450kHz

4. MW Tracking Adjustment
   Settings: • Test point: TP5, TP6
   • Adjustment location: L981
   Method: Set to MW 999kHz and adjust L981 so that the test point becomes maximum.

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

6. LW VT Adjustment
   Settings: • Test point: TP2 (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.

7. LW Tracking Adjustment
   Settings: • Test point: TP5, TP6
   • 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.

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

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitiviy: (THD 3%)	Less than 13dB (at 108.0/98.0MHz) Less than 14dB (at 98.0MHz)
Distortion:	Less than 1.2% (98.0MHz)
Stereo separation:	More than 12dB (98.0MHz)
Intermediate frequency:	10.7MHz

< MW SECTION >

Sensitivity: (S/N 20dB)	Less than 60dB (at 600kHz) Less than 58dB (at 1000/1400kHz)
Distortion:	Less than 1.5% (at 1000kHz)

< LW SECTION >

Sensitivity:	Less than 70dB (at 144kHz) Less than 68dB (at 198kHz) Less than 66dB (at 290kHz)

IC DESCRIPTION

IC, LC876580W

Pin No.	Pin Name	I/O	Description
1	I-DISH	I	CD DISH No. detection input.
2	I-MD1	I	MD door SW input.
3	I-MD2	—	Not used.
4	I-$\overline{\text{STEREO}}$/I-DRF	I	Connected to tuner/stereo detection and CD ASP LA9240M pin-54 DRF.
5	O-DATA	O	Connected to the front shift resistor BU2099 ③ DATA, main shift resistor 4094 ② DATA, and tuner PLL IC LC72131 ④ DI.
6	O-CLK	O	Connected to the front shift resistor BU2099 ④ DATA, main shift resistor 4094 ③ CLK, and tuner PLL IC LC72131 ⑤ DI.
7	I-TRAY	I	Deck door SW input.
8	O-CDDATA/ I-RDSDATA	O	Connected to CD DSP LC78622E 56-pin COIN and ASP LA9240M 52-pin DAT. RDS data input.
9	O-MUTE	O	Main mute output.
10	O-POWER	O	Unit power supply control output.
11	$\overline{\text{RESET}}$	—	Microprocessor reset.
12	I-$\overline{\text{TU.IFC}}$/I-SUBQ	I	Connected to tuner PLL IC LC72131 ⑤.
13	I-TU-SIG/I-MS	I	RDS signal level AD value input (A/D) and tape music sensor input (A/D).
14	VSS1	—	Ground.
15	CF1	I	Connected to 5.76 MHz oscillator.
16	CF2	O	
17	VDD1	—	Microprocessor power supply. (µ-com 5 V)
18	I-$\overline{\text{HOLD}}$	I	Hold status detection.
19-22	I-KEY1-4	I	Key input.
23	I-CDSW	I	CD frame open/close status detection input.
24	I-RE-VOL	I	AD value input to electronic volume control from the rotary encoder outputs A and B.
25	I-RE-MULTI	I	AD value input to multi jog from the rotary encoder outputs A and B.
26	I-SPEANA	I	Input from spectrum analyzer.
27	I-RDSCLK/I-WRQ	I	Connected to RDS CLK input and CD DSP LC78622E pin-53 WRQ.
28	I-TMBASE	I	Connected to reference clock input for watch PLL IC LC72131 ⑦.
29	I-RMC	I	Remote control input.
30-42	13G-1G	O	FL tube grid output.
43-45	P37-P35	O	FL tube anode output.
46	VDD3	—	Microprocessor power supply. (µ-com 5 V)
47	P34	O	FL tube anode output.
48-50	SPEANA/P31-P33	O	
51	VP	—	Connected to minus power supply -VFL for FL.
52, 53	P30, P29	O	FL tube anode output.
54	$\overline{\text{DSP}}$/P28	I	FL tube anode output and INT.diode matrix input.
55	$\overline{\text{DEMO}}$/P27	I	
56	AMST/P26	O	
57	LW/P25	O	
58	SW/P24	O	

Pin No.	Pin Name	I/O	Description
59	FM1/P22	O	FL tube anode output and INT.diode matrix input.
60	RDS/P22	O	
61	AM9K/P21	O	
62	$\overline{\text{Q-SURR}}$/P20	O	
63	$\overline{\text{BBE}}$/P19	O	
64	$\overline{\text{REB}}$/P18	I	FL tube anode output and deck MECHA status detection input.
65	$\overline{\text{REA}}$/P17	I	
66	$\overline{\text{CST}}$/P16	I	
67	AUTO/P15	I	
68	CAM/P14	I	
69-71	P13-P11	O	FL tube anode output.
72	VDD4	—	Microprocessor power supply. (µ-com 5 V)
73-82	P10-P1	O	FL tube anode output.
83	O-KSCAN	O	Key scan detection output.
84	O-LEDSTB	O	Connected to front LED driver BU2099 ⑤.
85	O-DISH FWD	O	CD flame and dish FWD control output.
86	O-DISH REV	O	CD flame and dish REV control output.
87	O-PLLCE	O	Connected to tuner PLL IC LC72131 ③.
88	O-STB	O	Connected to ㉚ latch of M62445FP.
89	VSS2	—	Ground.
90	VDD2	—	Microprocessor power supply. (µ-com 5 V)
91	O-CDCE	O	CD IC control output.
92	O-CDCLK	O	CD IC control output. Clock output.
93	O-$\overline{\text{SOL2}}$	O	Deck MECHA plunger control output.
94	O-$\overline{\text{MDRES}}$	O	MD unit ZZG-2A reset signal output.
95	O-SOUT	O	Serial data output to MD unit control.
96	I-SIN	I	Serial data input to MD unit control.
97	I-ACLK	I	Serial clock input to MD unit control.
98	O-ARDY	O	Serial data send/receive ready output to MD unit control.
99	O-SREQ	O	Serial data transfer request to MD unit control.
100	I-MREQ	I	

IC, CXD2652AR

Pin No.	Pin Name	I/O	Description
1	MNT0	O	Monitor output terminal.
2	MNT1	O	Monitor output terminal.
3	MNT2	O	Monitor output terminal.
4	MNT3	O	Monitor output terminal.
5	SWDT	I	Microprocessor serial interface data input.
6	SCLK	I	Microprocessor serial interface shift clock input.
7	XLAT	I	Microprocessor serial interface latch input. Latched at falling down edge.
8	SRDT	O	Microprocessor serial interface data output.
9	SENS	O	The terminal which outputs internal status in accordance with the address of the microprocessor serial interface.
10	XRST	I	Reset input. L: reset.
11	SQSY	O	Disc sub code Q sync/ADIP sync output.
12	DQSY	O	Subcode Q sync output of U-bit CD or MD format when the DIGITAL IN source is CD or MD.
13	RECP	I	Laser power selection input. H: Recording power, L: Playback power.
14	XINT	O	Interrupt request output terminal. L is output when interrupt status is generated.
15	TX	I	Record data output enable signal input terminal. H: enable.
16	OSCI	I	Crystal oscillator circuit input terminal.
17	OSCO	O	Crystal oscillator circuit output terminal. (Inverted output of OSCI).
18	XTSL	I	OSCI terminal input frequency selection. H: 512 Fs (22.5792 MHz), L: 1024 Fs (45.1584 MHz).
19	NC	—	Not connected.
20	DVSS	—	Digital GND.
21	DIN	I	Digital audio interface signal input.
22	DOUT	O	Digital audio interface signal output.
23	ADDT	I	Analog recording signal input terminal. (External A/D converter output is connected to this terminal).
24	DADT	O	RECORD monitor output/decode audio data output.
25	LRCK	O	LRCK (44.1 kHz) output terminal to external audio block.
26	XBCK	O	Bit clock output (2.8224 kHz) output terminal to external audio block.
27	FS256	O	256 Fs output. (11.2896 MHz).
28	DVDD	—	Digital power supply.
29	A03	O	Address output to external DRAM.
30	A02	O	Address output to external DRAM.
31	A01	O	Address output to external DRAM.
32	A00	O	Address output to external DRAM.
33	A10	O	Address output to external DRAM. (Not used).
34	A04	O	Address output to external DRAM.
35	A05	O	Address output to external DRAM.
36	A06	O	Address output to external DRAM.
37	A07	O	Address output to external DRAM.

Pin No.	Pin Name	I/O	Description
38	A08	O	Address output to external DRAM.
39	A11	O	Address output to external DRAM. (Not used).
40	DVSS	—	Digital GND.
41	XOE	O	External DRAM output enable.
42	XCAS	O	$\overline{\text{CAS}}$ output to external DRAM.
43	A09	O	Address output to external DRAM.
44	XRAS	O	$\overline{\text{RAS}}$ output to external DRAM.
45	XWE	O	Write enable for external DRAM.
46	D1	I/O	Data bus for external DRAM.
47	D0	I/O	Data bus for external DRAM.
48	D2	I/O	Data bus for external DRAM.
49	D3	I/O	Data bus for external DRAM.
50	MVCI	I	External VCO (784 fs) clock input.
51	ASYO	O	Playback EFM full swing output. (L: VSS, H: VDD).
52	ASYI	I	Playback EFM comparator slice voltage input.
53	AVDD	—	Analog GND.
54	BIAS	I	Playback EFM comparator bias current input.
55	RFI	I	Playback EFM RF signal input.
56	AVss	—	Analog power supply.
57	PDO	O	Phase comparison output to EFM decoder analog PLL.
58	PCO	O	Phase comparison output to the master PLL of playback digital PLL and to the recording EFM PLL.
59	FILI	I	Filter input to the master PLL of playback digital PLL and to the recording EFM PLL.
60	FILO	O	Filter output to the master PLL of playback digital PLL and to the recording EFM PLL.
61	CLTV	I	Internal VCO control voltage of the master PLL of playback digital PLL and of the recording EFM PLL.
62	PEAK	I	Optical light volume’s peak hold signal input.
63	BOTM	I	Optical light volume’s bottom hold signal input.
64	ABCD	I	Optical light volume signal input.
65	FE	I	Focus error signal input.
66	AUX1	I	Auxiliary input 1.
67	VC	I	Center terminal voltage input.
68	ADIO	O	Monitor output of A/D converter input signal.
69	AVDD	—	Analog power supply.
70	ADRT	I	Voltage input of the upper limit of the A/D converter operation range.
71	ADRB	I	Voltage input of the lower limit of the A/D converter operation range.
72	AVSS	—	Analog GND.
73	SE	I	Sled error signal input.
74	TE	I	Tracking error signal input.
75	AUX2	I	Auxiliary input 2.

Pin No.	Pin Name	I/O	Description
76	DCHG	I	Connected to the low impedance power supply.
77	APC	I	Error signal input to the laser digital APC.
78	ADFG	I	ADIP2 binary-converted FM signal (22.05±1 kHz) input.
79	F0CNT	O	Current source setting output terminal to CXA2523.
80	XLRF	O	Latch output for CXA2523 control. Latched at rise-up.
81	CKRF	O	Shift clock output for CXA2523 control.
82	DTRF	O	Data output for CXA2523 control.
83	APCREF	O	Reference PWM output to laser APC.
84	LDDR	O	PWM output to laser digital APC. (Not used).
85	TRDR	O	Tracking servo drive PWM output. (-).
86	TFDR	O	Tracking servo drive PWM output. (+).
87	DVDD	—	Digital power supply.
88	FFDR	O	Focus servo drive PWM output. (+).
89	FRDR	O	Focus servo drive PWM output. (-).
90	FS4	O	4 fs output. (176.4 kHz).
91	SRDR	O	Sled servo drive PWM output. (-).
92	SFDR	O	Sled servo drive PWM output. (+).
93	SPRD	O	Spindle servo drive PWM output. (PWM (-) or negative polarity).
94	SPFD	O	Spindle servo drive PWM output. (PWM (+) or PWM absolute value).
95	FGIN	I	FG input to spindle CAV servo.
96	TEST1	I	Test pin. Connected to GND.
97	TEST2	I	Test pin. Connected to GND.
98	TEST3	I	Test pin. Connected to GND.
99	DVSS	—	Digital GND.
100	EFMO	O	Low signal during playback. EFM (encode data) output: during recording.

IC, CXP81952

Pin No.	Pin Name	I/O	Description
1	MCAS	—	Not used.
2	MRAS	—	
3	BUP	—	
4	AMUTE	O	Audio mute signal output.
5	ESK	O	Serial clock output for EEPROM interface.
6	EDO	O	Serial data output for EEPROM interface.
7	EDI	I	Serial data input for EEPROM interface.
8	ECS	O	EEPROM interface chip select signal output.
9	—	—	Not used.
10	RFLCT	I	DISC reflectance factor detection switch input.
11	—	—	Not used.
12	LS	I	Optical pickup inner circumference detection switch input.
13	LDSW	I	Loading mechanism, EJECT position detection switch input.
14	PBSW	I	Loading mechanism, PB position detection switch input.
15	RECSW	I	Loading mechanism, RECORD position detection switch input.
16	—	—	Not used.
17	—	—	
18	ACOFF	—	
19	SREQ	I	System control send request signal input for system control interface.
20	EXTDIN	O	External DIGITAL-IN enable signal output.
21	SLOW	O	Loading mechanism speed control signal input.
22	LOAD	O	Loading mechanism operational direction control signal input 1.
23	EJECT	O	Loading mechanism operational direction control signal input 2.
24	MREQ	O	MD microprocessor send request signal output for system control interface.
25	DRIVE	O	EFM driver ON/OFF signal output.
26	—	—	Not used.
27	—	—	
28	—	—	
29	—	—	
30	—	—	
31	—	—	
32	—	—	
33	—	—	
34	—	—	
35	—	—	
36	—	—	
37	MP	—	Connected to VSS.
38	SRST	I	MD microprocessor reset signal input.
39	DGND	—	Connected to VSS.
40	XTALO	O	External system clock oscillation crystal connection terminal 1.
41	XTALI	I	External system clock oscillation crystal connection terminal 2.

Pin No.	Pin Name	I/O	Description
42	ARDY	I	Ready signal input for system control interface.
43	SIN	I	Serial data input for system control interface.
44	SOUT	O	Serial data output for system control interface.
45	ACLK	O	Serial clock output for system control interface.
46	XLAT	O	CXD2652 interface latch signal output.
47	XRST	O	CXD2652 reset signal output.
48	XSTBY	O	CXA2523 standby signal output.
49	—	—	Not used.
50	AVSS	—	Connected to VSS.
51	AVREF	—	Connected to VDD.
52	AVDD	—	
53	—	—	Not used. (PLL UP)
54	—	—	
55	—	—	
56	SLF	—	
57	SRF	—	
58	TEMP	—	
59	MAGIC	—	
60	—	—	
61	TEST	—	
62	DISCPRO	I	DISC write-protection switch input.
63	MNT3	I	CXD2652 monitor signal input 3.
64	MNT2	I	CXD2652 monitor signal input 2.
65	MNT1	I	CXD2652 monitor signal input 1.
66	MNT0	I	CXD2652 monitor signal input 0.
67	SENS	I	CXD2652 SENS signal input.
68	FLG	I	The terminal monitoring the flag included in the SRDT of the CXD2652 interface.
69	—	—	Not used.
70	—	—	
71	P-CONT	—	
72	RFSW	—	
73	—	—	
74	—	—	
75	DQSY	I	DIGITAL-IN SUB-Q sync input.
76	XINT	I	CXD2652 status sync input.
77	SRDT	I	CXD2652 interface serial data input.
78	SWDT	O	CXD2652 interface serial data output.
79	SCLK	O	CXD2652 interface serial clock output.
80	SQSY	I	SUB-Q, ADIP sync input.
81	—	—	Not used.
82	—	—	

Pin No.	Pin Name	I/O	Description
83	—	—	Not used.
84	TXI	—	Connected to VSS.
85	TXO	—	Open. (Not used)
86	VSS	—	Connected to VSS.
87	VDD	—	Connected to VDD.
88	NC	—	
89	—	—	Not used.
90	DRVMUTE	O	BA5970FP mute signal output.
91	—	—	Not used.
92	—	—	
93	—	—	
94	—	—	
95	RECP	O	Laser power selection signal output.
96	TX	O	Record data output enable signal output.
97	MOD	O	RF modulation circuit ON/OFF signal output.
98	OPMUTE	O	Laser mute signal output.
99	ARST	O	AK4512 reset signal output.
100	DENF	O	De-emphasis ON/OFF signal output.

MECHANICAL PARTS LIST 1/1

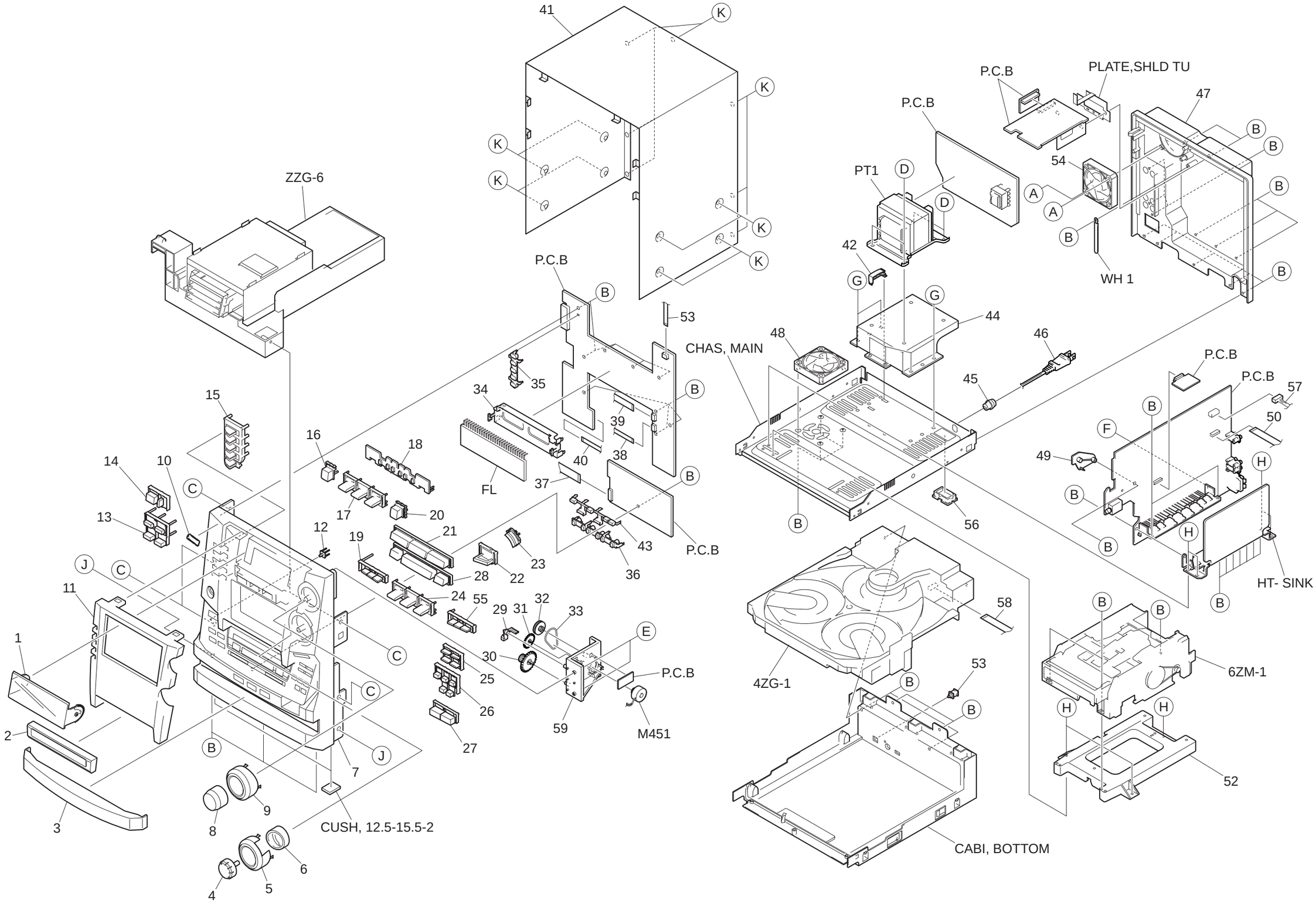
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NB6-002-010		WINDOW,MD
2	8Z-NB6-005-010		PANEL,TRAY DECK
3	8Z-NB6-004-010		PANEL,TRAY CD
4	8Z-NB6-034-010		KNOB,RTRY JOG
5	8Z-NB6-006-010		PANEL,JOG
6	8Z-NB6-035-010		REFLECTOR,JOG
7	8Z-NB6-061-010		CABI,FR EZ
8	8Z-NB6-033-010		KNOB,RTRY VOL
9	8Z-NB6-007-010		RING,VOL
10	8Z-NE6-067-010		BADGE,AIWA 30N
11	8Z-NB6-003-010		WINDOW,DISPLAY
12	8Z-NB6-037-010		REFLECTOR,ECO
13	8Z-NB6-017-010		KEY,BBE
14	8Z-NB6-016-010		KEY,POWER
15	8Z-NB6-008-010		KEY,ASSY FUN
16	8Z-NB6-014-010		KEY,DISC CHANGE MD
17	8Z-NB6-011-010		KEY,ASSY DIRECT MD
18	8Z-NB6-222-010		GUIDE,DIRECT MD
19	8Z-NB6-024-010		KEY,DEMO
20	8Z-NB6-015-010		KEY,OPEN MD
21	8Z-NB6-018-010		KEY,ASSY OPE1
22	8Z-NB6-026-010		KEY,OPEN DECK
23	8Z-NB6-036-010		KEY,ENTER
24	8Z-NB6-029-010		KEY,ASSY DIRECT CD
25	8Z-NB6-027-010		KEY,TIMER
26	8Z-NB6-028-010		KEY,DUB
27	8Z-NB6-032-010		KEY,OPEN CD
28	8Z-NB6-021-010		KEY,ASSY OPE2
29	8Z-NB6-215-010		LEVER,SW
30	8Z-NB6-212-010		GEAR,WINDOW
31	8Z-NB6-213-010		GEAR,RELAY
32	8Z-NB6-214-010		PULLEY,RELAY
33	8Z-NB6-216-010		BELT,SQ1.4-99.2
34	87-NF5-203-010		GUIDE,FL
35	8Z-NB6-224-010		GUIDE,FUN
36	8Z-NB6-223-010		GUIDE,DIRECT CD
37	88-914-201-110		FF-CABLE, 14P 1.25 200MM
38	88-904-351-110		FF-CABLE, 4P 1.25
39	88-907-351-110		FF-CABLE, 7P 1.25 350MM
40	88-913-451-110		FF-CABLE, 13P 1.25
41	8Z-NB6-038-010		CABI,STEEL
42	87-NF4-221-010		HLDR,CABLE
43	8Z-NB6-221-010		GUIDE,OPE
44	8Z-NB6-202-010		HLDR,PT
45	87-085-185-010		BUSHING, AC CORD (E)
⚠ 46	87-050-079-010		AC-CORD ASSY,E
47	8Z-NB6-047-010		CABI,REAR EZS<EZS>
47	8Z-NB6-046-010		CABI,REAR KS<KS>
48	87-A90-796-010		FAN,F614R-12MC-15-300MM
49	88-NF5-208-010		HLDR,PWB-M N
50	88-914-201-110		FF-CABLE, 14P 1.25 200MM
51	84-ZG1-245-210		CAP,OPTICAL
52	8Z-NB6-203-010		HLDR,DECK
53	88-904-101-110		FF-CABLE, 4P 1.25 100MM
54	87-A90-296-210		MOT ASSY,F614R-12MC-15
55	8Z-NB6-025-010		KEY,RDS
56	8Z-NB5-205-010		CAP,CHAS
57	8Z-NB6-624-010		CONN ASSY,16P ZNB6
58	88-906-501-110		FF-CABLE, 6P 1.25
59	8Z-NB6-211-010		HLDR,MECHA
A	87-B10-190-010		BVT2+3-22 W/O SLOT
B	87-067-703-010		TAPPING SCREW, BVT2+3-10
C	87-721-096-410		QT2+3-10 GLD
D	87-078-019-010		S-SCREW,IT+4-6
E	87-067-758-010		BVT2+3-12 W/O SLOT
F	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
G	87-067-584-010		TAPPING SCREW, BVT2+3-6
H	87-067-579-010		TAPPING SCREW, BVT2+3-8
J	87-721-097-410		QT2+3-12 GLD
K	87-067-641-010		UTT2+3-8(W/O SLOT)BL

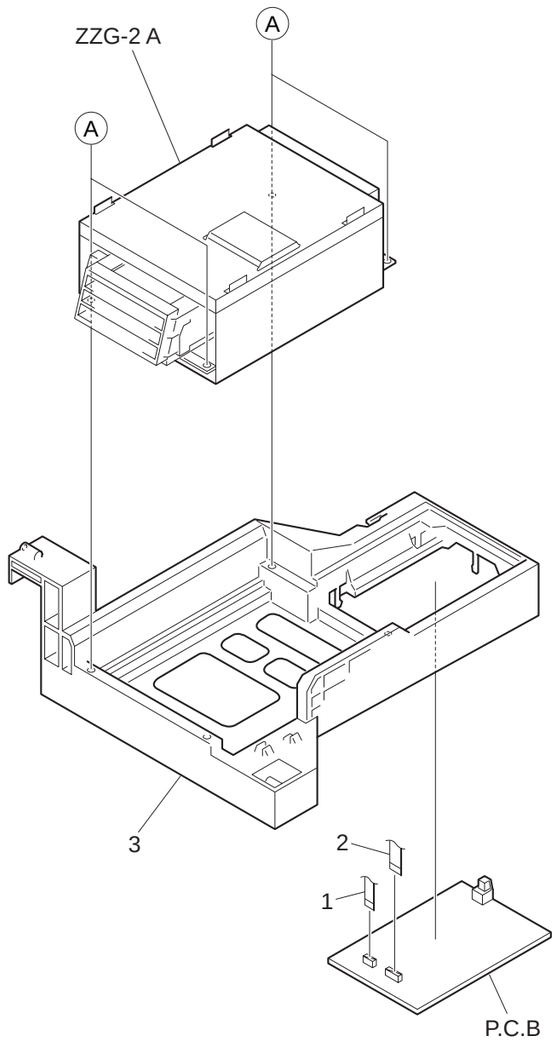
COLOR NAME TABLE

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		

MECHANICAL EXPLODED VIEW 1/1



MD MECHANISM EXPLODED VIEW 1/4

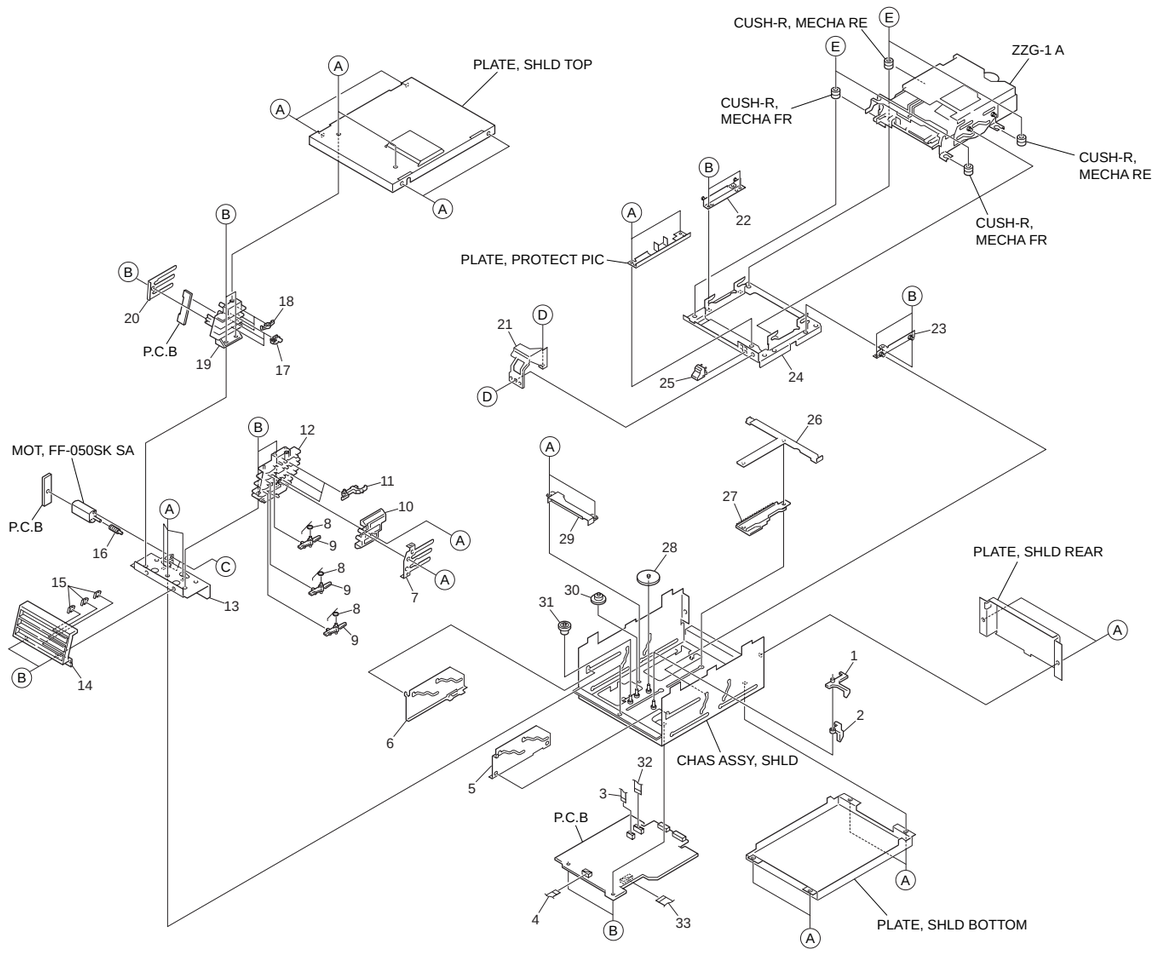


MD MECHANISM PARTS LIST 1/4

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZGA-611-010		FF-CABLE, 8P 1.0 100MM
2	87-ZGA-612-010		FF-CABLE, 14P 1.0 100MM
3	8Z-NB6-204-010		HLDR,MD
A	87-067-703-010		TAPPING SCREW, BVT2+3-10

MD MECHANISM EXPLODED VIEW 2/4

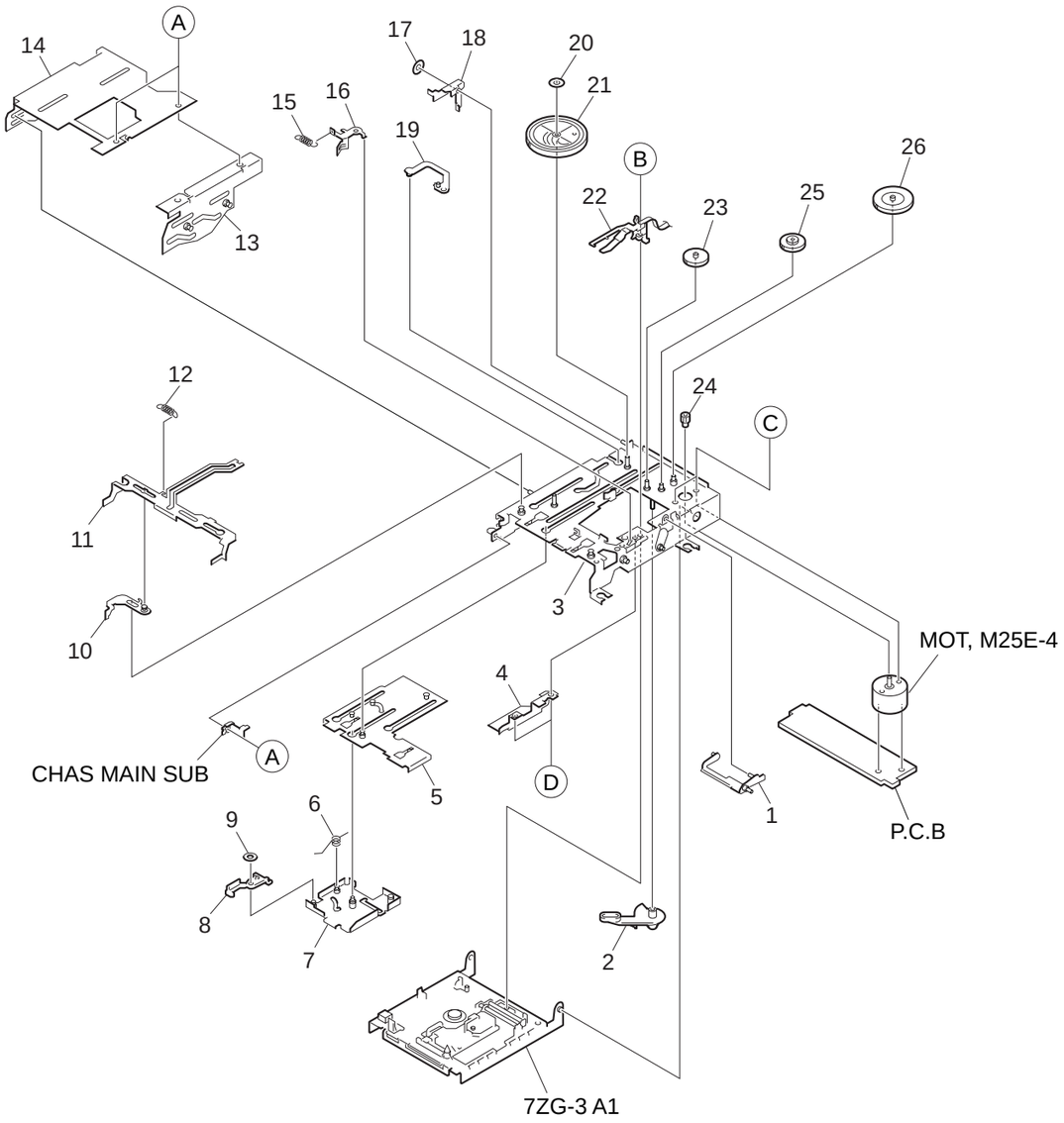


MD MECHANISM PARTS LIST 2/4

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZG2-221-010		LEVER,SW RACK B
2	8Z-ZG2-220-010		LEVER,SW RACK A
3	8Z-ZG1-606-010		FF-CABLE,8P 1.0 115MM
4	8Z-ZG2-613-010		FF-CABLE, 4P 1.0 70MM
5	8Z-ZG2-213-010		SLIDER ASSY,CAM R
6	8Z-ZG2-210-010		SLIDER ASSY,CAM L
7	8Z-ZG2-233-010		SPR-P,STOPPER R
8	8Z-ZG2-245-010		SPR-T,LVR PUSH
9	8Z-ZG2-230-010		LEVER,PUSH R
10	8Z-ZG2-231-010		HLDR,LEVER R
11	8Z-ZG2-229-010		LEVER,STOPPER R
12	8Z-ZG2-225-010		MAGAZINE,R
13	8Z-ZG2-223-010		HLDR,MAGAZINE
14	8Z-ZG2-001-010		MAGAZINE,F
15	8Z-ZG2-247-010		PLATE,MAGAZINE F
16	8Z-ZG2-215-010		GEAR,WORM JT
17	8Z-ZG2-227-010		STOPPER,L
18	8Z-ZG2-228-010		LEVER,STOPPER L
19	8Z-ZG2-224-010		MAGAZINE,L
20	8Z-ZG2-232-010		SPR-P,STOPPER L
21	8Z-ZG2-238-010		HLDR,MECHA STOP
22	8Z-ZG2-241-010		HLDR,ASSY M SUB L
23	8Z-ZG2-243-010		HLDR,ASSY M SUB R
24	8Z-ZG2-235-010		HLDR,MECHA
25	8Z-ZG2-239-010		STOPPER,HLDR M
26	8Z-ZG2-207-010		JOINT ASSY,SLIDER
27	8Z-ZG2-219-010		GEAR,RACK JT
28	8Z-ZG2-218-010		GEAR,JT B
29	8Z-ZG2-244-010		PLATE,PROTECTOR
30	8Z-ZG2-217-010		GEAR,JT A
31	8Z-ZG2-216-010		WORM-WHL,JT
32	8Z-ZG2-612-010		FF-CABLE, 9P 1.0 90MM
33	8Z-ZG1-605-010		FF-CABLE, 21P 0.5 100MM
A	87-741-073-410		UT2+2.6-6 GLD
B	87-743-073-410		UT2+2.6-6
C	87-262-545-310		V+2-2.5
D	87-067-421-010		VTT+2-4
E	87-ZG9-208-010		S-SCREW,MD T

MD MECHANISM EXPLODED VIEW 3/4

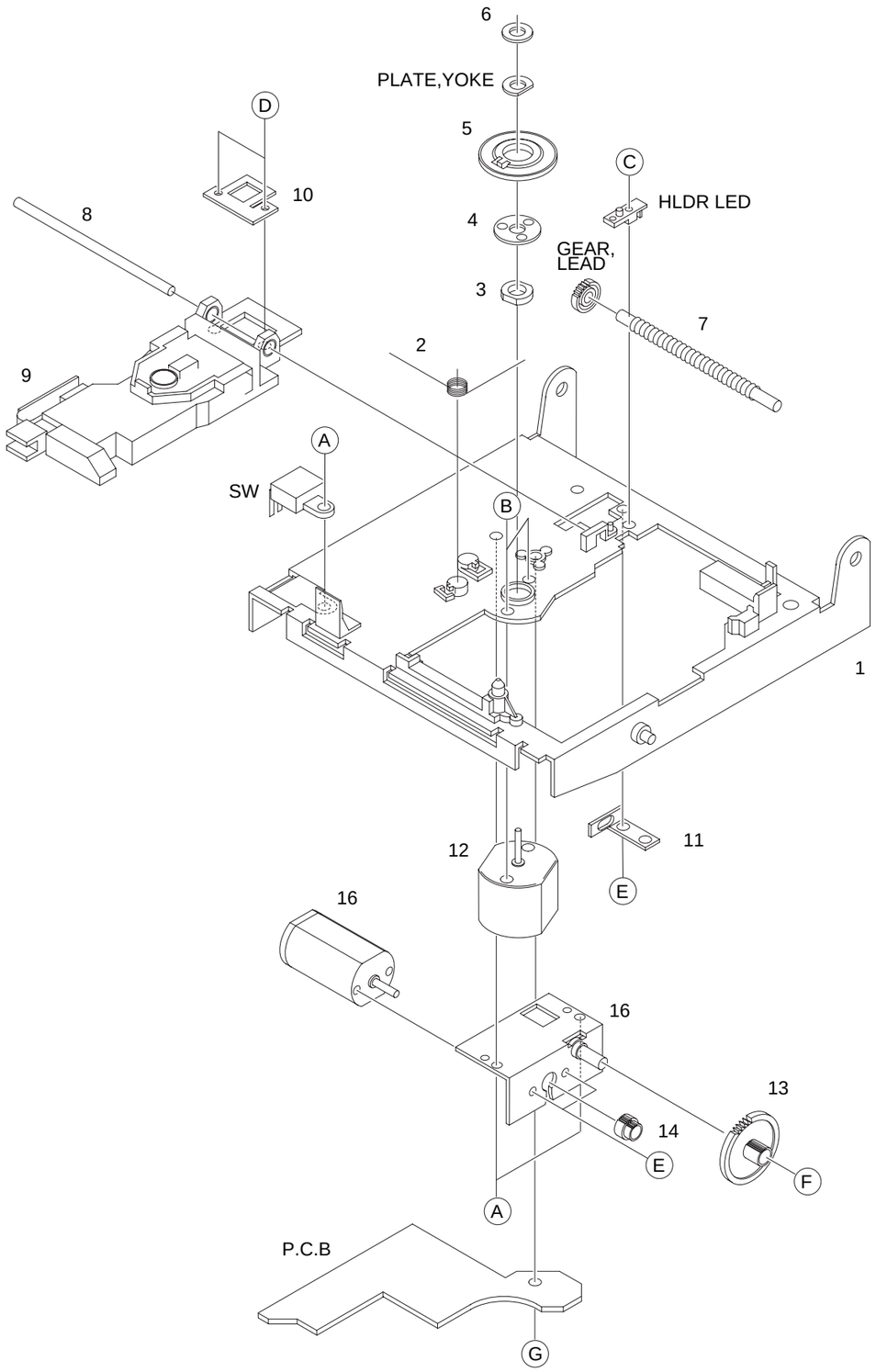


MD MECHANISM PARTS LIST 3/4

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZG8-257-210		LEVER ASSY,REC
2	8Z-ZG1-220-010		LEVER,SW EJECT
3	8Z-ZG1-201-010		CHAS ASSY,MAIN
4	8Z-ZG1-248-010		PLATE,CTRG
5	8Z-ZG1-210-010		HLDR ASSY,CTRG
6	8Z-ZG1-209-010		SPR-T,LOAD
7	8Z-ZG1-206-010		PLATE ASSY,EJECT
8	8Z-ZG1-208-010		LEVER,LOAD
9	87-B10-193-010		W-P,1.76-4.5-0.3 SLIT W/O ADH
10	8Z-ZG1-223-010		LEVER ASSY,LOAD M
11	8Z-ZG1-222-010		SLIDER,OPEN
12	8Z-ZG1-245-010		SPR-E,SL OPEN
13	8Z-ZG1-216-010		PLATE ASSY,SLIDE R
14	8Z-ZG1-214-010		PLATE ASSY,SLIDE L
15	87-ZG8-232-110		SPR-E,SHUTTER
16	87-ZG8-231-010		LEVER,SHUTTER
17	87-B10-130-010		W-P,1.23-3.1-0.25 SLIT
18	8Z-ZG1-221-010		LEVER,SW PLAY
19	8Z-ZG1-218-010		LEVER ASSY,CAM
20	87-B10-267-010		W-P,1.74-4-0.2 BLKSLIT W/O
21	87-ZG8-239-010		CAM,LOAD
22	87-A90-605-010		HEAD,OWH RF325-74A
23	8Z-ZG1-243-010		GEAR,IDLER
24	87-ZG8-242-010		GEAR,MOT
25	8Z-ZG1-226-010		GEAR,REDUCTION S
26	8Z-ZG1-225-010		GEAR,REDUCTION L
A	87-067-421-010		VTT+2-4
B	87-B10-131-010		VW+1.7-5 W/O MFZN2C
C	87-B10-128-010		V+1.7-2 W/O MFZN2-C
D	87-B10-129-010		VTT+1.7-3.5 W/O MFZN2-C

MD MECHANISM EXPLODED VIEW 4/4

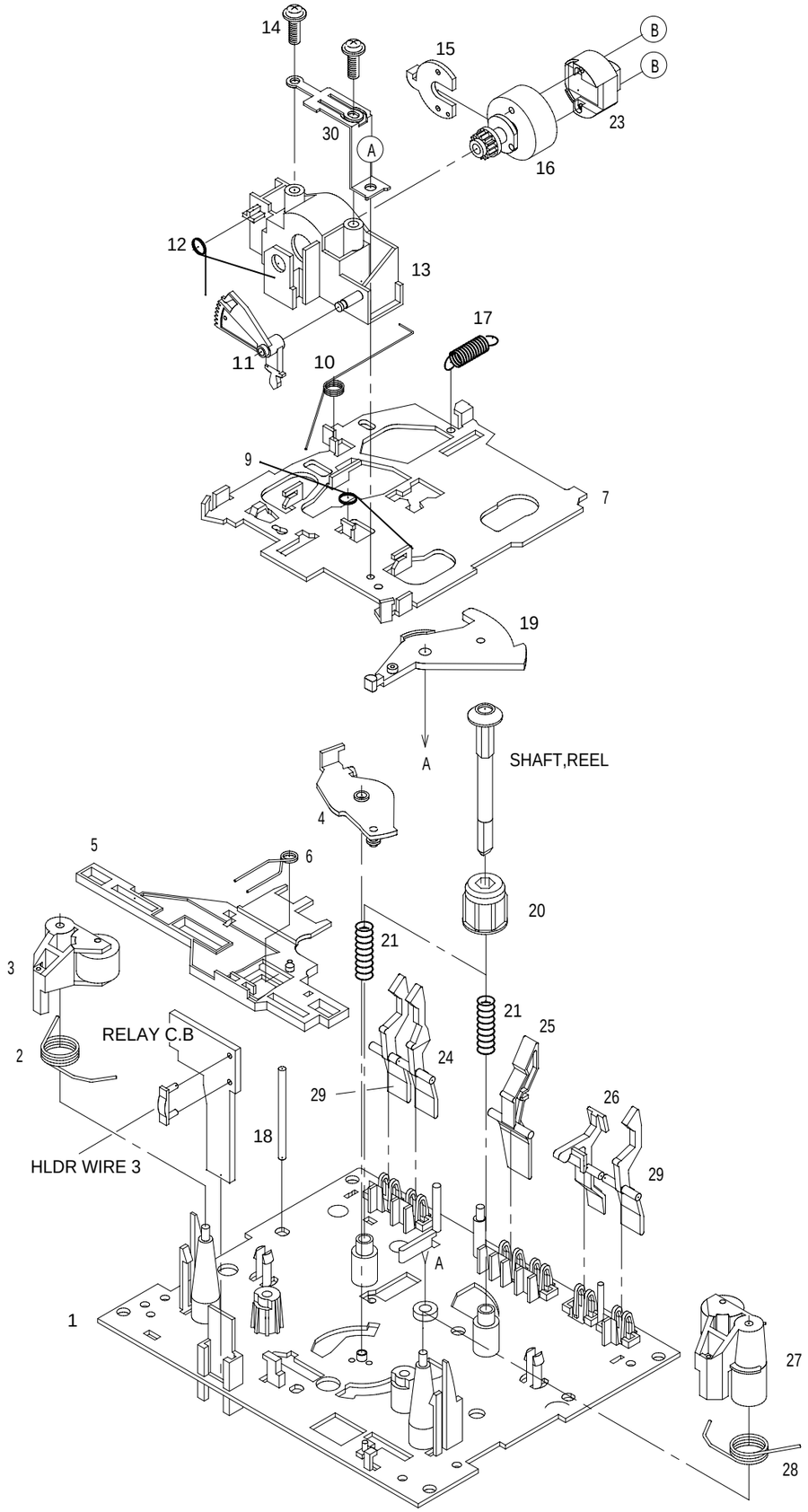


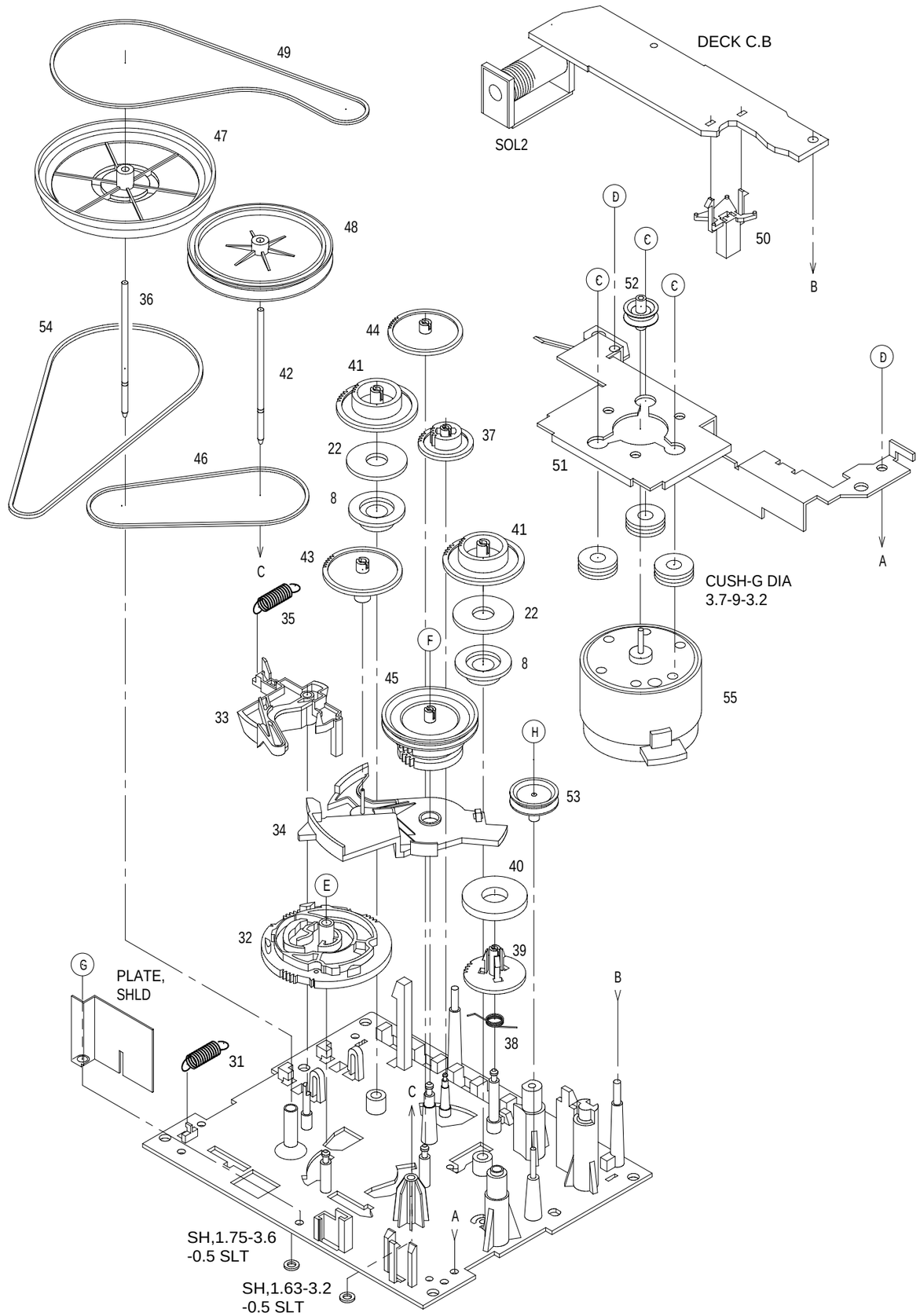
MD MECHANISM PARTS LIST 4/4

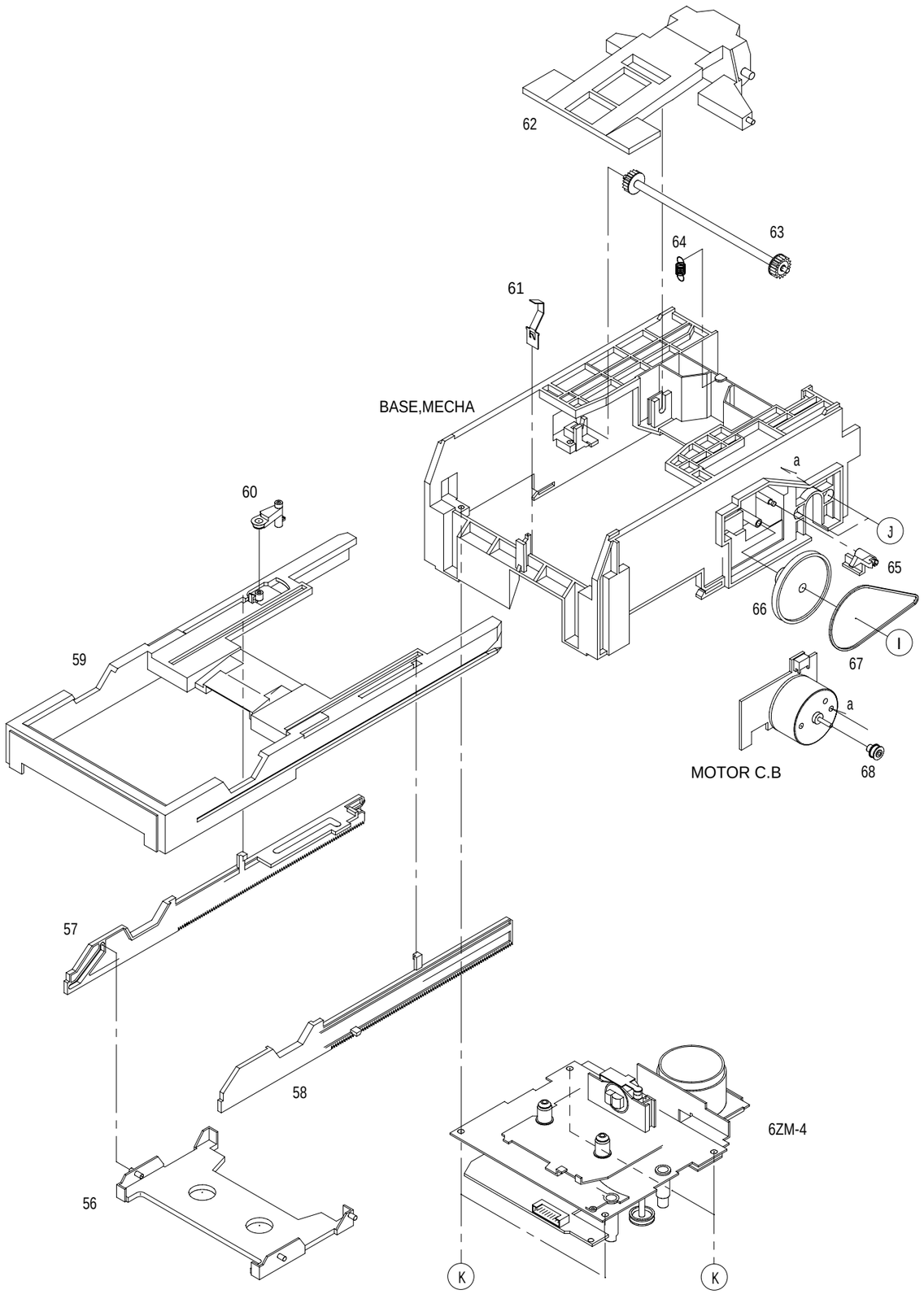
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZG3-202-010		CHAS ASSY,OUT-SERT
2	87-ZG3-214-010		SPR-T,SPINDLE-A
3	83-ZG5-308-010		BRG,1.5-2
4	83-ZG5-305-010		SPR-P,DISC
5	83-ZG5-302-010		TURN TABLE,MD1
6	83-ZG5-605-010		MAGNET,CHUCK
7	87-ZG3-212-010		SHAFT,LEAD
8	87-ZG3-211-010		SHAFT,GUIDE
9	87-A90-613-010		PICKUP,KMS-260A
10	87-ZG3-216-010		SPR-P,RACK
11	87-ZG3-213-010		SPR-P,LEAD
12	87-A90-413-010		MOT,FF-110PH 9
13	87-ZG3-206-010		GEAR,A
14	87-ZG3-205-010		GEAR,MOT SL
15	87-ZG3-208-010		HLDR ASSY,MOTOR
16	87-A90-616-010		MOT,FF-N30VA
A	87-261-547-310		V+2-3 BLK (1)
B	87-263-523-310		SCREW, V+1.7-2
C	87-261-509-310		SCREW, V+1.4-4
D	87-067-393-010		SCREW +1.4-1.4
E	87-261-503-310		PRECISION SCREW, V+1.4-2
F	87-078-033-010		PW 1.2-2.5-0.25 SLT
G	87-341-035-210		SCREW,UT1+2-6

TAPE MECHANISM EXPLODED VIEW 1/1





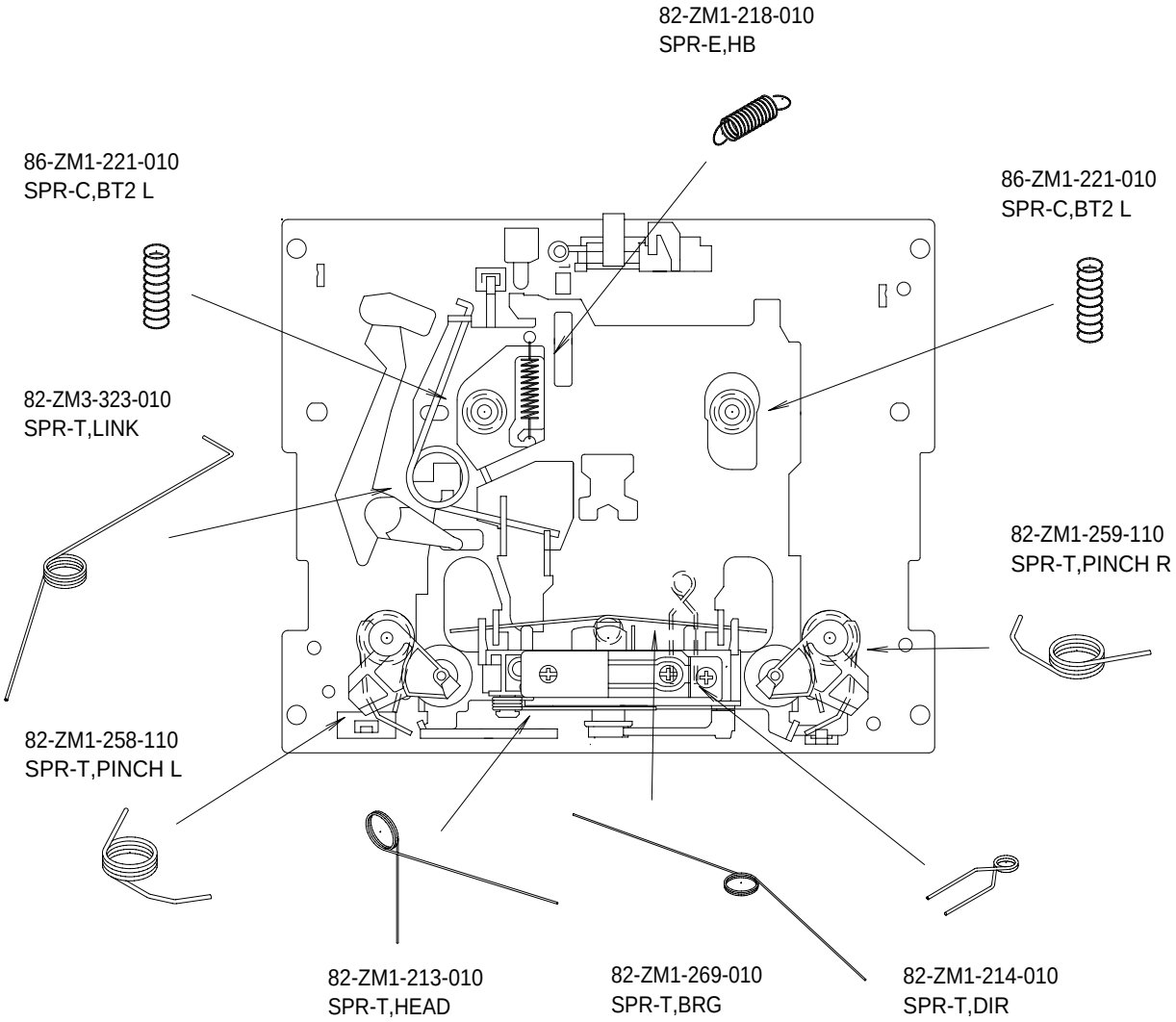


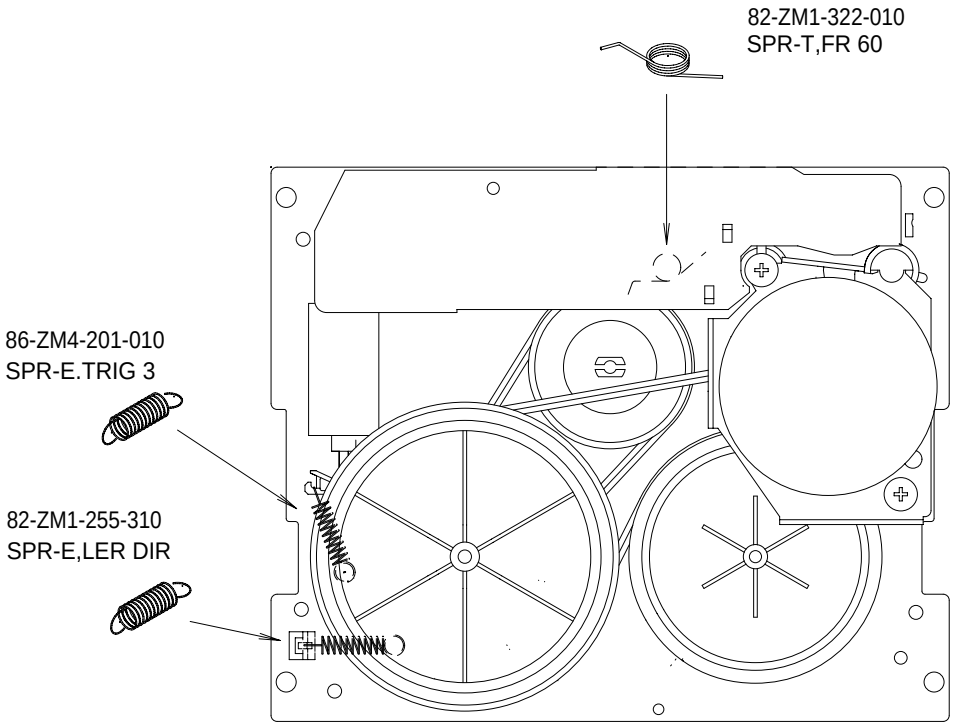
TAPE MECHANISM PARTS LIST 1/1

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM1-218-010		CHAS ASSY,R
2	82-ZM1-258-110		SPR-T,PINCH L
3	86-ZM4-202-019		LVR ASSY,PINCH L3
4	82-ZM1-333-010		PLATE,LINK2
5	82-ZM1-266-110		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-910		CHAS,HEAD
8	86-ZM1-219-010		CLR,REEL SLIP
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM3-323-010		SPR-T,LINK 3
11	82-ZM1-210-110		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-710		GUIDE,TAPE
14	82-ZM1-283-310		S-SCREW,AZIMUTH
15	82-ZM1-314-110		PLATE,HEAD
16	82-ZM1-208-310		HLDR,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM3-327-010		SHAFT,COUPLER N2
19	82-ZM1-222-210		LVR,PLAY
20	86-ZM1-203-010		CAP,REEL
21	86-ZM1-221-010		SPR-C,BT 2L
22	86-ZM1-220-010		FELT,DIA 5.3-14-0.8
23	87-046-399-110		HEAD,RPH YK56R-BS409
24	82-ZM1-241-310		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	86-ZM4-204-019		LVR ASSY,PINCH R3
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-110		LVR,REC
30	82-ZM1-298-010		SPR-P EARTH
31	82-ZM1-255-310		SPR-E,LVR DIR
32	82-ZM1-221-110		GEAR,CAM
33	82-ZM1-227-210		LVR,TRIG
34	82-ZM1-224-410		LVR,FR
35	86-ZM4-201-010		SPR-E,TRIG 3
36	82-ZM1-239-010		CAPSTAN,2.2-41.7
37	82-ZM1-223-010		GEAR,PLAY
38	82-ZM1-322-010		SPR-T,FR 60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM1-316-010		RING,MAGNET 3
41	82-ZM1-216-310		GEAR,REEL
42	82-ZM1-236-010		CAPSTAN,2-41.5
43	82-ZM1-225-210		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-210		SLIP DISK ASSY 2
46	82-ZM1-338-110		BELT,FR 4
47	86-ZM1-216-210		FLY-WHL,R L
48	82-ZM3-330-010		FLY-WHL,L2 W
49	86-ZM1-206-010		BELT,MAIN L
50	82-ZM1-245-210		HLDR,IC
51	86-ZM1-215-010		HLDR,MOT L
52	82-ZM1-247-210		PULLEY,MOTOR
53	82-ZM3-335-010		PULLEY,COUPLER M3
54	86-ZM1-217-010		BELT,MOT
55	87-A90-343-010		MOT,SHU2R 70
56	86-ZL1-203-010		TRAY,CAS
57	86-ZL1-204-010		LEVER,SLIDE L
58	86-ZL1-205-010		LEVER,SLIDE R
59	86-ZL1-202-010		FRAME,CAS
60	86-ZL1-209-010		LEVER,LOCK
61	86-ZL1-214-010		SPR-P,CAS
62	86-ZL1-211-010		ARM,CLAMP
63	86-ZL1-206-010		GEAR,TRAY
64	86-ZL1-213-010		SPR-E,CLAMP
65	86-ZL1-208-010		LEVER,SW
66	86-ZL1-207-010		GEAR,PULLEY
67	86-ZL1-212-010		BELT,L
68	86-ZL1-210-010		PULLEY,MOT
A	82-ZM1-315-010		S-SCREW GUIDE TAPE
B	80-ZM6-207-010		V+1.6-7
C	82-ZM3-318-110		S-SCREW MOTOR M2
D	87-067-178-010		VTT+2.6-3
E	87-B10-008-010		W-P,2.08-8-0.4 SLIT
F	82-ZM3-334-010		PW,2.16-6-0.4
G	87-571-032-410		VIT+2-3
H	87-B10-043-010		W-P,0.99-4-0.25 SLT
I	83-ZG3-217-010		S-SCREW,GEAR D
J	87-251-072-410		U+2.6-5
K	87-067-660-010		BVT2+3-8 W/0 SL0T BLK

SPRING APPLICATION POSITION



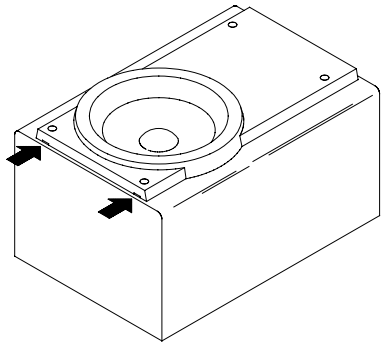


MODEL NO. SX-WNH898

SPEAKER DISASSEMBLY INSTRUCTIONS

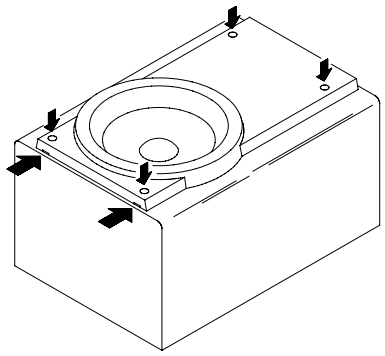
Type.1

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



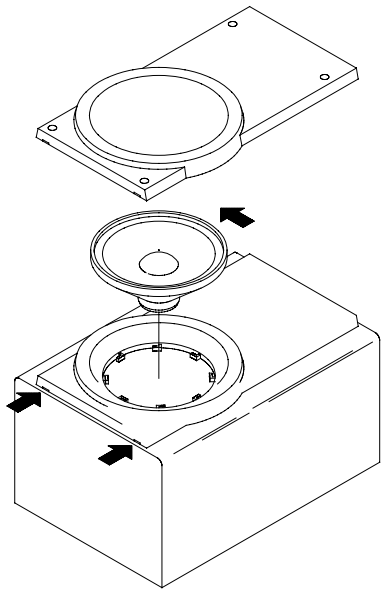
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hold 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.

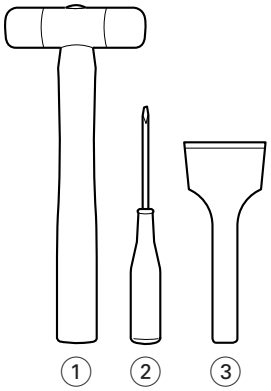


Type.3

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 arround speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turnning to clock-wise direction unitil "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.

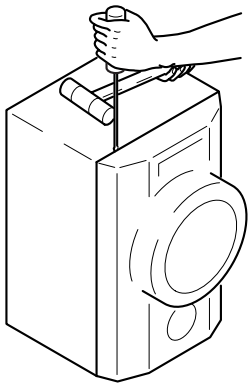


Fig-1

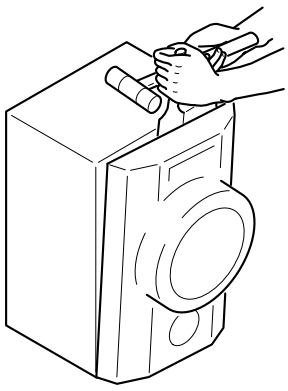


Fig-2

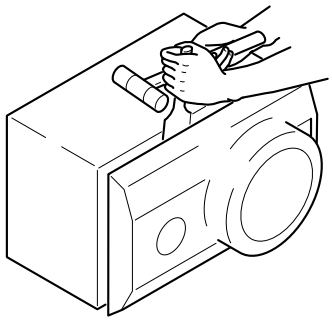


Fig-3

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 1/1

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NSZ-001-010		PANEL,FR
2	8Z-NSZ-003-010		GRILLE,FRAME ASSY
3	8Z-NS6-602-010		SPKR, W 160 WNS777
4	8Z-NS6-604-010		SPKR, M 120 WNS888
5	8Z-NSY-608-010		SPKR, CERAMIC ASSY (SWNH33)
6	88-NS5-610-010		CORD,SPKR
7	88-NS5-611-010		CORD,SPKR B/L

サービス技術ニュース	
番号	連絡内容
G一　一	
G一　一	
G一　一	

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 （代表）
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