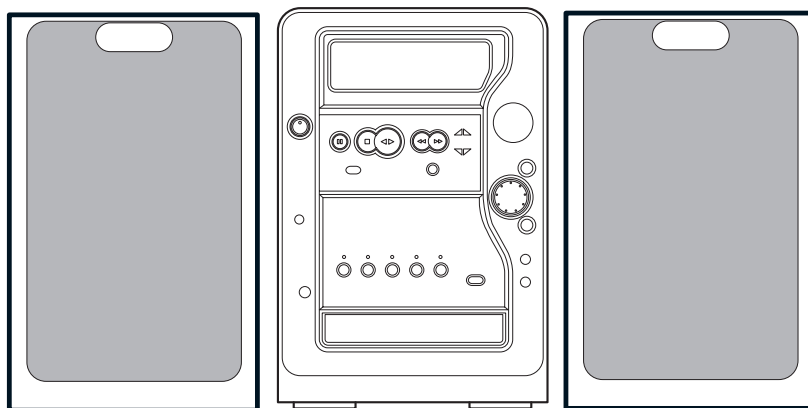




SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-1 R11NM
BASIC CD MECHANISM : 3ZG-3 E13NM

SYSTEM	SPEAKER	REMOTE CONTROLLER
XR-MP50	SX-M510	RC-AAT17

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-MP50 (EZ), (S/M Code No. 09-00B-439-6T1).

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SPECIFICATIONS

Main unit

<FM tuner section>

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

<MW tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
---------------------	---

Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW tuner section>

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

<Amplifier section>

Power output	Rated: 25 W + 25 W (6 ohms, T.H.D. 1 %, 1 kHz / DIN 45500) Reference: 30 W + 30 W (6 ohms, T.H.D. 10 %, 1 kHz / DIN 45324) DIN MUSIC POWER 42 W + 42 W
Inputs	AUX / VIDEO IN: 310 mV MD IN: 310 mV
Outputs	SUPER WOOFER: 1.2 V SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo mini jack): accepts headphones of 32 ohms or more CD DIGITAL OUT (OPTICAL)

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape : 50 Hz to 16000 Hz Normal tape : 50 Hz to 15000 Hz
Signal-to-noise ratio	45 dB (Dolby B NR ON, CrO ₂ tape peak level)
Recording system	AC bias
Heads	Recording / Playback head x 1, erase head x 1

<Compact disc player section>

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

<General>

Power requirements	230 V AC, 50 Hz
Power consumption	90 W
Standby power consumption	1.0 W (power-economizing mode set to ON or AUTO)

Dimensions of main unit (W x H x D)	175 x 257 x 333 mm
--	--------------------

Weight of main unit	6 kg
----------------------------	------

<Speaker system>

Cabinet type	2 way, bass reflex (magnetic shielded type)
---------------------	--

Speakers	Woofer : 130 mm Tweeter: 22 mm cone type
-----------------	---

Impedance	6 ohms
------------------	--------

Output sound pressure level	86 dB/W/m
------------------------------------	-----------

Dimensions (W x H x D)	155 x 254 x 210 mm
-----------------------------------	--------------------

Weight	2.6 kg
---------------	--------

• Design and specifications are subject to change without notice.

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

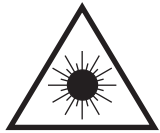
• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig 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

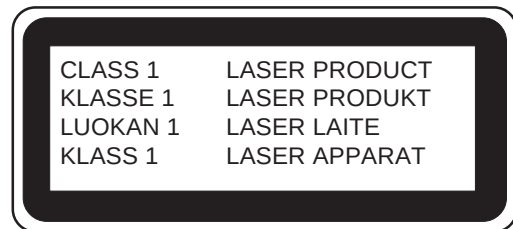
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er 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.

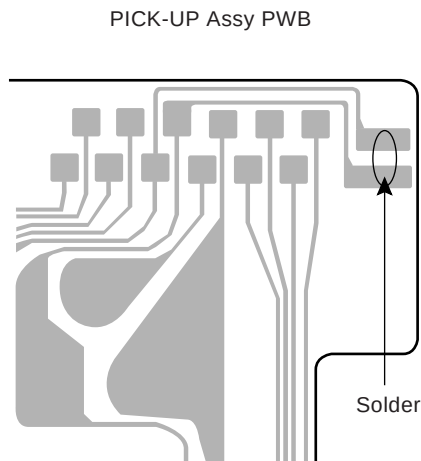


Precaution to replace Optical block

(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.

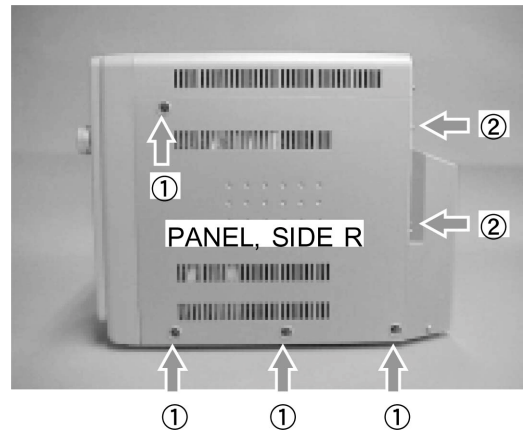
- 1) After the connection, remove solder shown in right figure.



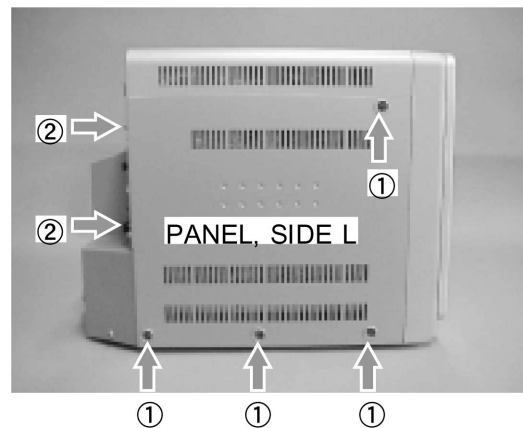
DISASSEMBLY INSTRUCTIONS

1. Removing the outside appearance parts

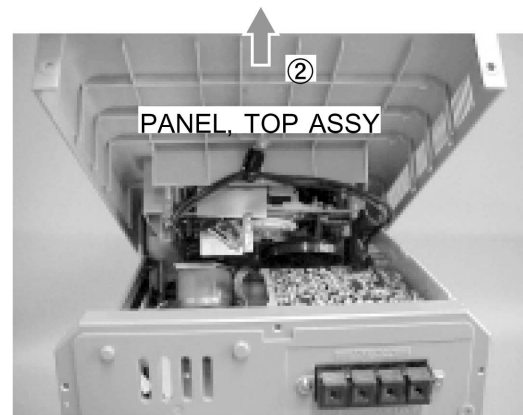
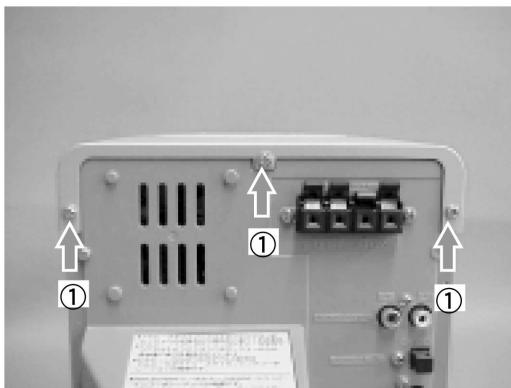
1) Remove the six screws (①-4, ②-2) and remove the PANEL, SIDE R.



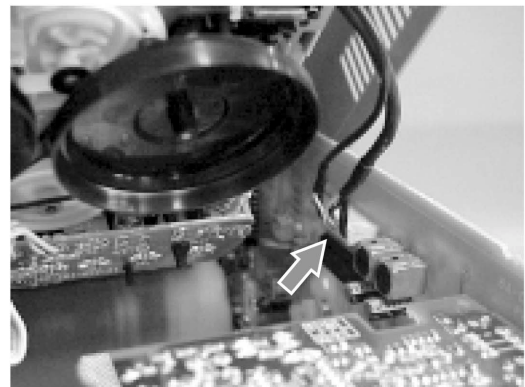
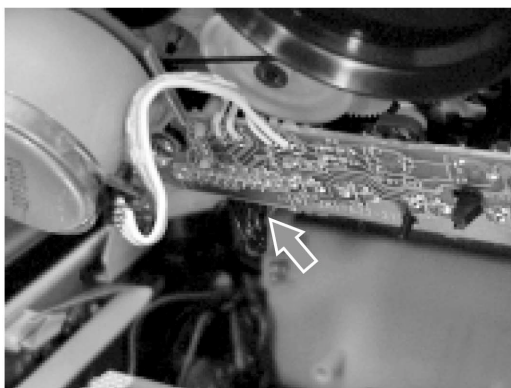
2) Remove the six screws (①-4, ②-2) and remove the PANEL, SIDE L.



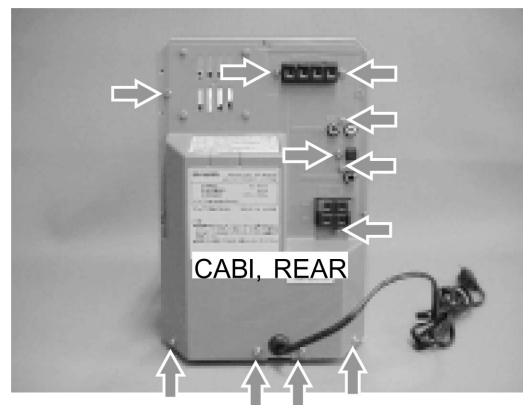
3) Remove the three screws ① and lift up the PANEL, TOP ASSY ②.



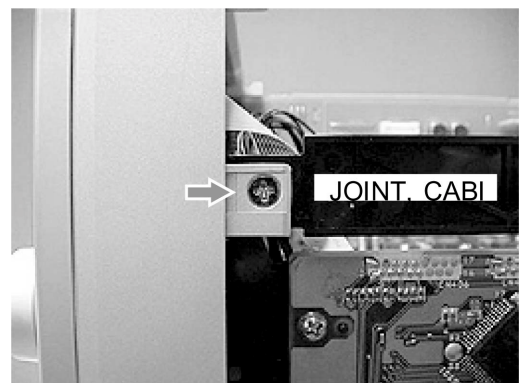
4) Remove the two connectors and remove the PANEL, TOP ASSY.



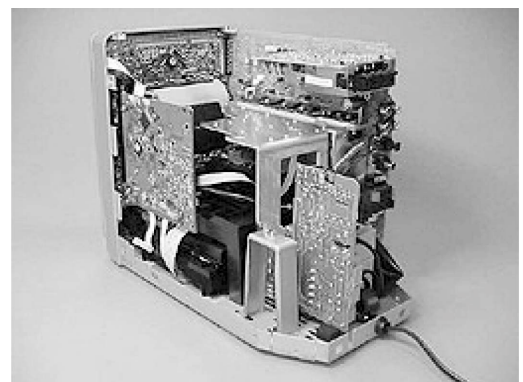
5) Remove the 11 screws and remove the CABI, REAR.



6) Remove the screw and JOINT, CABI.

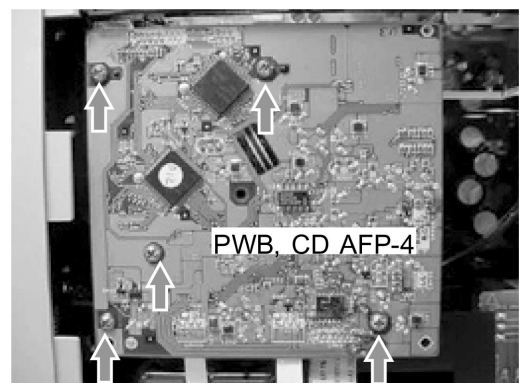


7) This is the state after the outside appearance parts are removed.



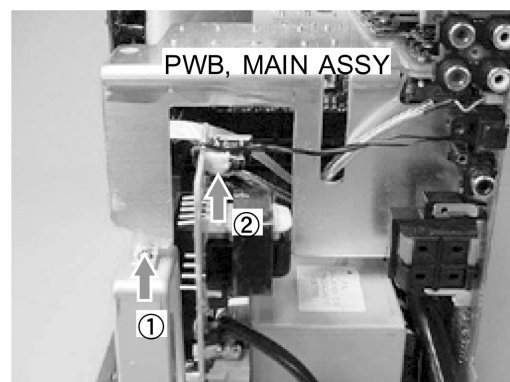
2. Removing the PWB, CD AFP-4

1) Remove the five screws, pull out the FFC and other parts, then remove the PWB, CD AFP-4.

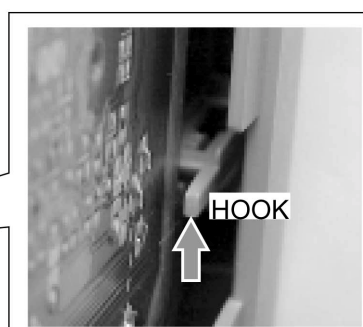
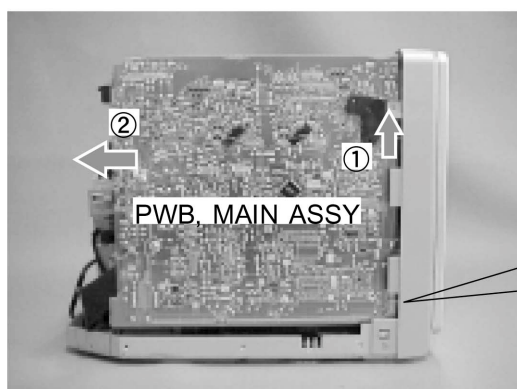


3. Removing the PWB, MAIN ASSY

- 1) Remove the screw ①, then remove the connector ②.

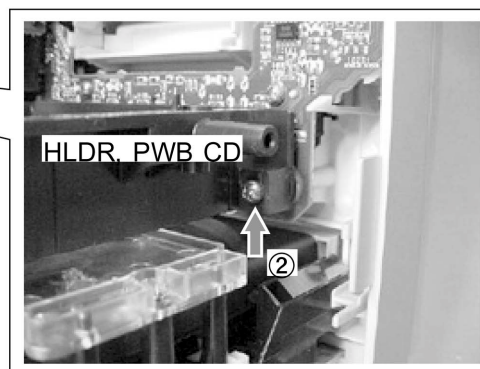
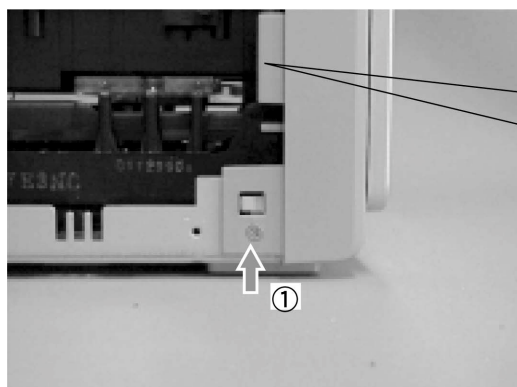
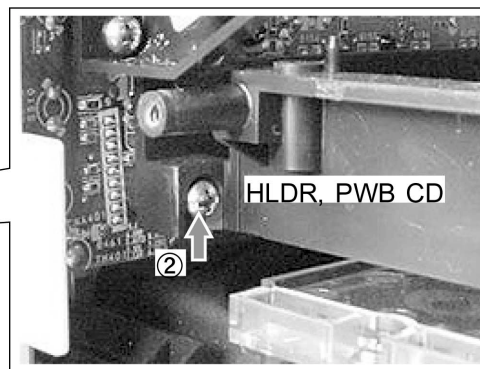
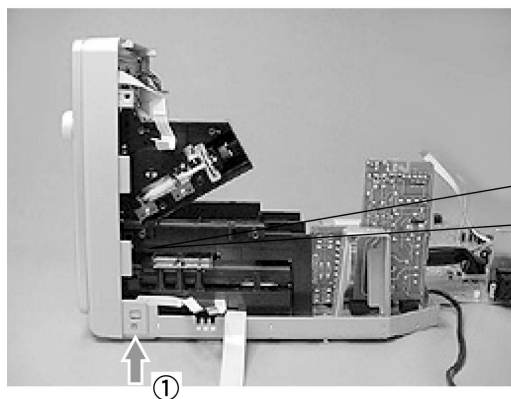


- 2) Remove the screw ① and remove the PWB, MAIN ASSY ② in the direction of the arrow. (The board is hooked. While lifting up the HOOK, remove the board.)

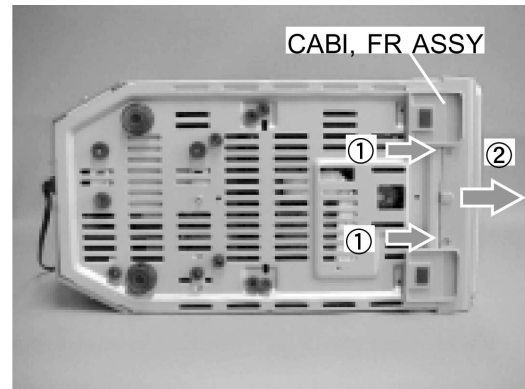


4. Removing the FRONT block

- 1) Remove the screw ① securing the CAB, FR ASSY and remove the screw ② securing the HLDR, PWB CD.

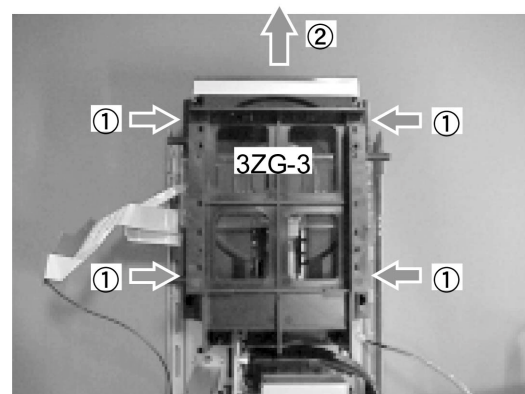


- 2) Remove the two screws ① and remove the CABI, FR ASSY in the direction of arrow ②.

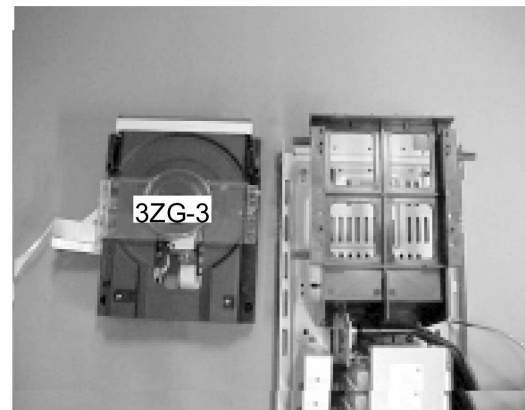


5. Removing the CD board (3ZG-3)

- 1) Remove the four screws ① and remove the CD block ②.



- 2) This is the state after the CD block is removed.

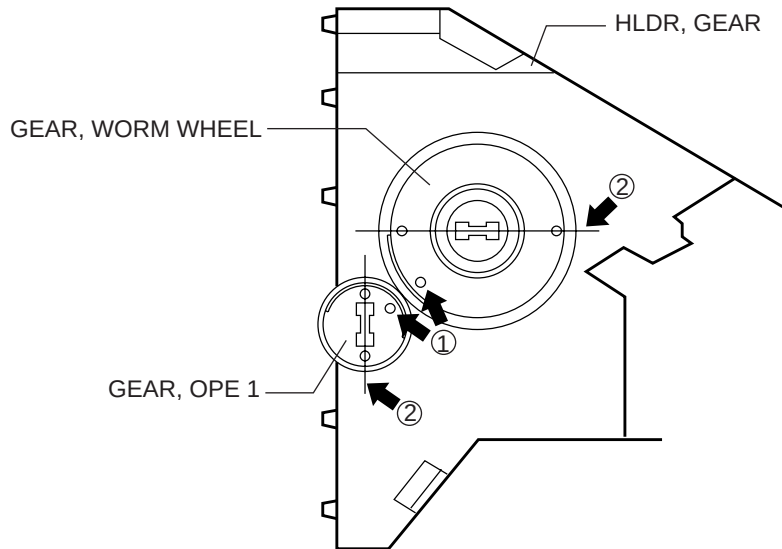


NOTES DURING RE-ASSEMBLING

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

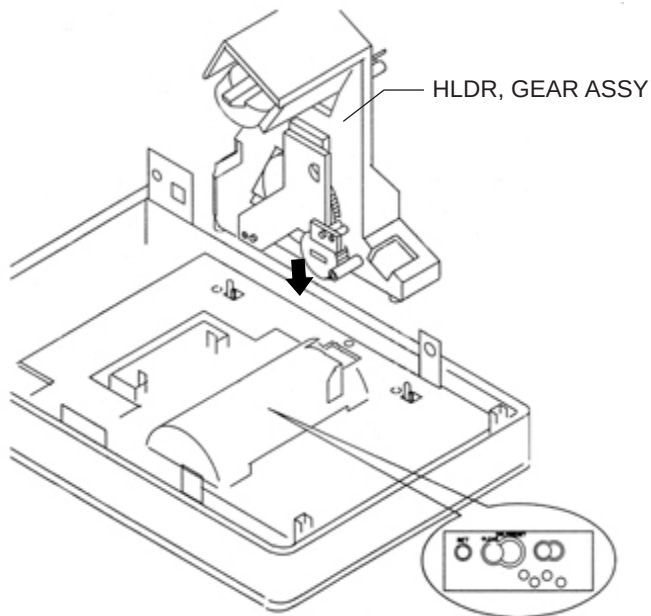
1. Phase adjustment of the GEAR, OPE 1 and GEAR, WORM WHEEL.

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



2. Installation Procedure of HLDR, GEAR ASSY

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



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

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC	8A-FP4-608-030	C-IC, UPD784216AYGC-107-8EU		87-A40-270-080		C-DIODE, MC2838	
	8A-AV6-605-030	C-IC, UT611024LC-12		87-A40-269-080		C-DIODE, MC2836	
	87-A20-965-040	C-IC, S-80842ANNP-ED6		87-070-274-080		DIODE, 1N4003 SEM	
	87-A21-021-040	C-IC, BU2099FV		87-070-022-010		DIODE, IN5402	
	87-A21-323-010	C-IC, CXD2585Q		87-A40-345-080		ZENER, MTZJ10C	
	8A-FP4-606-030	C-IC, LC876572V-5S39 AFP-4		87-A40-650-080		ZENER, MTZJ6.8A	
	87-A21-573-010	IC, SPS-448-1-E		87-A40-004-080		ZENER, MTZJ16A	
	87-A21-467-010	C-IC, CXA2581N		87-070-322-080		ZENER, MTZJ 36D	
	87-A20-455-010	IC, HA12211		87-A40-341-080		ZENER, MTZJ 36 A	
	87-A20-355-010	IC, CXA1553P		87-A40-350-080		ZENER, MTZJ 4.7C	
	87-A21-734-040	C-IC, BA5801FS		87-A40-250-040		C-DIODE, DAN217	
	87-A21-452-130	C-IC, BD3876AKS2		87-A40-488-080		DIODE, 1SS244	
	87-A20-602-040	C-IC, M5291FP		87-A40-180-040		C-DIODE, SB07-015C	
	87-A20-925-040	C-IC, BA05FP		87-A40-437-080		ZENER, MTZJ4.3B	
	87-A21-621-010	C-IC, MAS3507D-G10		87-001-166-080		DIODE, 1SS301	
	87-A21-103-040	C-IC, MM1454XFB		87-A40-002-080		ZENER, MTZJ5.1C	
	87-A21-599-010	C-IC, LC89513K		87-A40-313-080		C-DIODE, MC 2840	
	87-A21-943-030	C-IC, T15M256A-70P		87-A40-234-080		ZENER, MTZJ5.6A	
	87-A21-738-040	C-IC, SN74HCT08APW		87-070-136-080		ZENER, MTZJ5.1B	
	87-A21-714-030	C-IC, DAC3550A-C2		87-A40-304-080		ZENER, DZ6.2M	
	87-A20-918-040	C-IC, SM5878AM		87-017-149-080		ZENER, HZS6A2L	
	87-070-289-040	IC, BU 2092F					
	87-017-825-010	IC, GP1F32T					
	87-020-454-010	IC, DN6851					
	87-070-127-110	IC, LC72131D					
	87-A20-913-010	IC, LA1837NL					
TRANSISTOR	87-A30-073-080	C-TR, RT1N 141C					
	87-A30-076-080	C-TR, 2SC3052F					
	89-213-702-010	TR, 2SB1370E					
	87-026-610-080	TR, KTC3198GR					
	87-A30-075-080	C-TR, 2SA1235F					
	87-A30-234-080	TR, CSC4115BC					
	87-A30-448-040	C-TR, DTA123JKA					
	87-A30-107-070	C-TR, CMBT5401					
	87-A30-087-080	C-FET, 2SK2158					
	87-A30-074-080	C-TR, RT1P 141C					
	87-026-609-080	TR, KTA1266GR					
	87-A30-190-080	TR, CC5551					
	87-A30-106-070	C-TR, CMBT5551					
	87-A30-105-080	C-TR, RT1P 441C					
	87-A30-137-010	TR, 2SD2494					
	87-A30-138-010	TR, 2SB1625					
	89-113-625-080	TR, 2SA1362GR					
	87-A30-257-080	C-TR, 2SD1306E					
	87-A30-240-080	TR, CSA1585BC					
	87-A30-047-080	TR, CSD655E					
	89-211-323-080	C-TR, 2SB1132R					
	87-A30-159-080	C-TR, KTA1298Y					
	87-A30-084-080	TR, CSB1058B					
	87-A30-142-040	C-TR, DTA123EKA					
	87-A30-117-010	TR, 2SA1357Y					
	89-214-123-080	TR, 2SB1412 R					
	87-A30-427-040	CHIP-TR, DTC114EKA					
	87-026-470-080	TR, HN1C03FB					
	87-A30-466-040	C-TR, DTA144TKA					
	87-A30-429-040	C-TR, DTC123JKA					
	89-327-143-080	C-TR, 2SC27140					
	89-505-434-540	C-FET, 2SK543(4/5)					
	87-A30-196-080	TR, 2SC4115SRS					
	87-A30-086-070	C-TR, CSD1306E					
	87-A30-072-080	C-TR, RT1P 144C					
DIODE	87-020-465-080	DIODE, 1SS133					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C213	87-010-195-080		C-CAP,S 0.068-25 F	C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C214	87-010-195-080		C-CAP,S 0.068-25 F	C388	87-012-156-080		C-CAP,S 220P-50 CH
C215	87-012-368-080		C-CAP,S 0.1-50 F	C389	87-010-380-080		CAP, ELECT 47-16V
C216	87-012-368-080		C-CAP,S 0.1-50 F	C401	87-010-401-080		CAP, E 1-50 M 11L SME
C217	87-010-182-080		C-CAP,S 2200P-50 B	C402	87-010-263-080		CAP, E 100-10 M 11L SME
C218	87-010-182-080		C-CAP,S 2200P-50 B	C403	87-010-260-080		CAP, E 47-25 M 11L SME
C219	87-012-368-080		C-CAP,S 0.1-50 F	C410	87-010-260-080		CAP, E 47-25 M 11L SME
C220	87-012-368-080		C-CAP,S 0.1-50 F	C461	87-010-402-080		CAP, ELECT 2.2-50V
C221	87-010-186-080		CAP,CHIP 4700P	C462	87-010-400-080		CAP, ELECT 0.47-50V
C222	87-010-186-080		CAP,CHIP 4700P	C491	87-010-404-080		CAP, ELECT 4.7-50V
C223	87-010-401-080		CAP, ELECT 1-50V	C492	87-010-404-080		CAP, ELECT 4.7-50V
C224	87-010-401-080		CAP, ELECT 1-50V	C501	87-010-374-080		CAP, ELECT 47-10V
C225	87-010-197-080		CAP, CHIP 0.01-25	C502	87-010-374-080		CAP, ELECT 47-10V
C226	87-010-197-080		CAP, CHIP 0.01-25	C511	87-010-180-080		C-CER 1500P
C251	87-010-322-080		C-CAP,S 100P-50 J CH	C512	87-010-180-080		C-CER 1500P
C261	87-010-197-080		CAP, CHIP 0.01 DM	C515	87-010-318-080		C-CAP,S 47P-50 CH
C262	87-010-197-080		CAP, CHIP 0.01 DM	C516	87-010-318-080		C-CAP,S 47P-50 CH
C265	87-010-546-080		CAP, ELECT 0.33-50V	C517	87-010-318-080		C-CAP,S 47P-50 CH
C266	87-010-546-080		CAP, ELECT 0.33-50V	C518	87-010-318-080		C-CAP,S 47P-50 CH
C267	87-010-260-080		CAP, ELECT 47-25V	C521	87-010-956-080		CHIP-CAP,S 0.068-25B
C277	87-010-197-080		CAP, CHIP 0.01 DM	C522	87-016-369-080		C-CAP,S 0.033-25 B K
C281	87-012-157-080		C-CAP,S 330P-50 J CH	C524	87-010-401-080		CAP, ELECT 1-50V
C282	87-012-157-080		C-CAP,S 330P-50 J CH	C525	87-016-081-080		C-CAP,S 0.1-16 RK
C283	87-010-184-080		C-CAP,S 3300P-50 KB	C526	87-016-081-080		C-CAP,S 0.1-16 RK
C284	87-010-184-080		C-CAP,S 3300P-50 KB	C527	87-010-197-080		CAP, CHIP 0.01 DM
C303	87-012-157-080		C-CAP,S 330P-50 CH	C528	87-010-197-080		CAP, CHIP 0.01 DM
C304	87-012-157-080		C-CAP,S 330P-50 CH	C531	87-010-404-080		CAP, ELECT 4.7-50V
C307	87-010-196-080		CHIP CAPACITOR,0.1-25	C532	87-010-404-080		CAP, ELECT 4.7-50V
C311	87-010-198-080		C-CAP,S 0.022-25 KB	C535	87-A11-590-080		C-CAP,S 0.047-16 K B
C312	87-010-198-080		C-CAP,S 0.022-25 KB	C536	87-A11-590-080		C-CAP,S 0.047-16 K B
C315	87-010-181-080		CAP,CHIP S 1800P	C537	87-010-400-080		CAP, ELECT 0.47-50V
C316	87-010-181-080		CAP,CHIP S 1800P	C538	87-010-400-080		CAP, ELECT 0.47-50V
C317	87-A10-201-080		C-CAP,S0.33-16 KB	C539	87-010-185-080		C-CAP,S 3900P-50 B
C318	87-A10-201-080		C-CAP,S0.33-16 KB	C540	87-010-185-080		C-CAP,S 3900P-50 B
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C541	87-A10-307-080		CAP,M 0.1-50 J
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C542	87-A10-307-080		CAP,M 0.1-50 J
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C543	87-A10-307-080		CAP,M 0.1-50 J
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C544	87-A10-307-080		CAP,M 0.1-50 J
C324	87-010-260-080		CAP, ELECT 47-25V	C545	87-016-081-080		C-CAP,S 0.1-16 RK
C325	87-010-370-080		CAP,E 330-6.3 SME	C546	87-016-081-080		C-CAP,S 0.1-16 RK
C327	87-010-404-080		CAP, ELECT 4.7-50V	C547	87-010-401-080		CAP, ELECT 1-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V	C548	87-010-196-080		CHIP CAPACITOR,0.1-25
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C549	87-010-401-080		CAP, ELECT 1-50V
C335	87-010-401-080		CAP, ELECT 1-50V	C550	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V	C565	87-010-403-080		CAP, ELECT 3.3-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C571	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C579	87-010-322-080		C-CAP,S 100P-50 CH
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C583	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C351	87-012-140-080		CAP 470P	C584	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C352	87-012-140-080		CAP 470P	C593	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C354	87-010-175-080		CAP 560P	C594	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C355	87-010-178-080		CHIP CAP 1000P	C595	87-010-400-080		CAP, ELECT 0.47-50V
C356	87-010-260-080		CAP, ELECT 47-25V	C603	87-010-544-080		CAP, ELECT 0.1-50V
C357	87-010-197-080		CAP, CHIP 0.01 DM	C604	87-010-544-080		CAP, ELECT 0.1-50V
C358	87-010-183-080		C-CAP,S 2700P-50 B	C605	87-010-408-080		CAP, ELECT 47-50V
C359	87-010-183-080		C-CAP,S 2700P-50 B	C607	87-010-405-080		CAP, ELECT 10-50V
C360	87-010-183-080		C-CAP,S 2700P-50 B	C608	87-010-405-080		CAP, ELECT 10-50V
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-179-080		CAP,CHIP S B1200P	C610	87-010-384-080		CAP, ELECT 100-25V
C372	87-010-179-080		CAP,CHIP S B1200P	C611	87-010-197-080		CAP, CHIP 0.01 DM
C373	87-010-180-080		C-CAP,S 1500P-50 KB	C612	87-010-197-080		CAP, CHIP 0.01 DM
C374	87-010-180-080		C-CAP,S 1500P-50 KB	C901	87-010-196-080		CHIP CAPACITOR,0.1-25
C375	87-010-545-080		CAP, ELECT 0.22-50V	C906	87-010-196-080		CHIP CAPACITOR,0.1-25
C376	87-010-545-080		CAP, ELECT 0.22-50V	CN301	87-A60-624-010		CONN,7P V 2MM JMT
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	CN401	87-A60-619-010		CONN,2P V 2MM JMT
C381	87-010-197-080		CAP, CHIP 0.01 DM	CN501	87-099-719-010		CONN,30P TYK-B(X)
C382	87-010-318-080		C-CAP,S 47P-50 CH	CN504	87-A60-131-010		CONN,6P V FE
C383	87-010-197-080		CAP, CHIP 0.01 DM	CN571	87-099-570-010		CONN,13P TUC-P13P-B1
C384	87-010-402-080		CAP, ELECT 2.2-50V	CNA101	8A-CJ4-640-010		CONN ASSY,3P V AC1
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	CNA901	8Z-CL4-656-010		CONN ASSY,2P V DTL SHLD

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FC502	8A-CJ4-648-210		FF-CABLE, 14P 1.0	CNA401	88-802-092-420		CONN ASSY, 9P RED
FC504	88-906-201-110		FF-CABLE, 6P 1.25	D151	87-A40-317-080		LED, SLR-342VCT31 RED
H101	87-A90-511-010		HLDR, WIRE 2.5-10P	D152	87-A40-317-080		LED, SLR-342VCT31 RED
J201	87-A60-420-010		JACK, 3.5 ST (MSC)	D153	87-A40-317-080		LED, SLR-342VCT31 RED
J202	87-099-801-010		JACK, PIN 1P BLK	D154	87-A40-317-080		LED, SLR-342VCT31 RED
J203	87-A60-238-010		TERMINAL, SP 4P (MSC)	D155	87-A40-317-080		LED, SLR-342VCT31 RED
J502	87-099-625-010		JACK, PIN 4P BLK W/O SW	D156	87-A40-317-080		LED, SLR-342VCT31 RED
L201	87-003-383-010		COIL, 1UH-S	D161	87-A40-786-080		LED, SMLS1BE16WTP4 BLU/UMB
L202	87-003-383-010		COIL, 1UH-S	D162	87-A40-786-080		LED, SMLS1BE16WTP4 BLU/UMB
L203	87-003-098-080		COIL, 2.2UH K LAL02	D163	87-A40-786-080		LED, SMLS1BE16WTP4 BLU/UMB
L205	87-003-098-080		COIL, 2.2UH K LAL02	FC103	8A-CL4-605-010		FF-CABLE, 10P 1.0
L206	87-003-098-080		COIL, 2.2UH K LAL02	FL301	8A-CJ4-604-010		FL, 13-ST-44GNK ACJ-4
L207	87-005-898-080		C-COIL, S 2.2UH K LK2125	L201	87-A50-333-010		COIL, OSC 9.43MHZ
L301	87-A50-049-010		COIL, TRAP 85K(COI)	R301	87-022-341-080		C-RES, S 560-1/10W F
L302	87-A50-049-010		COIL, TRAP 85K(COI)	R302	87-022-341-080		C-RES, S 560-1/10W F
L351	87-007-342-010		COIL, OSC 85K BIAS	R303	87-022-198-080		C-RES, S 680 1/10WF
L590	87-008-372-080		FILTER, EMI BL OIRNI	R304	87-022-198-080		C-RES, S 680 1/10WF
R215	87-A00-258-080		RES, M/F 0.22-1W J	R305	87-022-343-080		C-RES, S 820-1/10W F
R216	87-A00-258-080		RES, M/F 0.22-1W J	R306	87-022-344-080		C-RES, S 1K-1/10W F
R217	87-A00-258-080		RES, M/F 0.22-1W J	R307	87-022-345-080		C-RES, S 1.2K-1/10W F
R218	87-A00-258-080		RES, M/F 0.22-1W J	R308	83-212-858-080		C-RES, 1.5K-1/8W F
R219	87-A00-258-080		RES, M/F 0.22-1W J	R309	83-212-859-080		C-RES, S 1.8K-1/10W F
R220	87-A00-258-080		RES, M/F 0.22-1W J	R310	87-022-348-080		C-RES, S 2.2K-1/10W F
R565	87-003-143-080		COIL, 4.7UH K LAL02	R311	87-022-349-080		C-RES, S 2.7K-1/10W F
R566	87-003-143-080		COIL, 4.7UH K LAL02	R317	87-022-355-080		C-RES, S 10K-1/10W F
R591	87-003-143-080		COIL, 4.7UH K LAL02	R322	87-022-357-080		C-RES, S 15K-1/10W F
R592	87-003-143-080		COIL, 4.7UH K LAL02	R337	87-022-355-080		C-RES, S 10K-1/10W F
SFR303	87-A90-557-080		SFR, 33K H HOKU	S301	87-A90-095-080		SW, TACT EVQ11G04M
SFR304	87-A90-557-080		SFR, 33K H HOKU	S302	87-A90-095-080		SW, TACT EVQ11G04M
SFR305	87-024-436-080		SFR, 47K RH063EC	S303	87-A90-095-080		SW, TACT EVQ11G04M
SFR306	87-024-436-080		SFR, 47K RH063EC	S304	87-A90-095-080		SW, TACT EVQ11G04M
SFR351	87-024-436-080		SFR, 47K RH063EC	S305	87-A90-095-080		SW, TACT EVQ11G04M
SFR352	87-024-436-080		SFR, 47K RH063EC	S306	87-A90-095-080		SW, TACT EVQ11G04M
TH251	87-A91-042-080		C-THMS, 100K 55001	S307	87-A90-095-080		SW, TACT EVQ11G04M
TH252	87-A91-042-080		C-THMS, 100K 55001	S309	87-A90-095-080		SW, TACT EVQ11G04M
W101	8Z-CL4-658-010		F-CABLE, 10P 2.5 300MM	S310	87-A90-095-080		SW, TACT EVQ11G04M
FRONT C.B				S311	87-A90-095-080		SW, TACT EVQ11G04M
C050	87-018-209-080		CAP, TC U 0.1-50 Z F	S312	87-A90-095-080		SW, TACT EVQ11G04M
C161	87-010-196-080		CHIP CAPACITOR, 0.1-25	S352	87-A91-687-010		SW, RTRY RE012102PV-VOL
C162	87-010-322-080		C-CAP, S 100P-50 CH	SW351	87-A91-753-010		SW, RTRY EC12E12504-JOG
C164	87-012-349-080		CHIP CAP 1000P-50 J CH GRM				
C201	87-010-316-080		C-CAP, S 33P-50 CH	CD-MP3 C.B			
C203	87-010-313-080		CAP, CHIP 18P	C101	87-010-552-040		CAP, E 22-16 M 5L SRE
C204	87-A11-148-080		CAP, TC U 0.1-50 Z F	C102	87-010-831-080		C-CAP, U, 0.1-16F
C205	87-010-196-080		CHIP CAPACITOR, 0.1-25	C103	87-010-831-080		C-CAP, U, 0.1-16F
C206	87-A11-148-080		CAP, TC U 0.1-50 Z F	C104	87-010-831-080		C-CAP, U, 0.1-16F
C207	87-A11-148-080		CAP, TC U 0.1-50 Z F	C151	87-012-195-080		C-CAP, U 100P-50CH
C231	87-010-415-040		CAP, E 10-50 M 5L SRE	C152	87-012-195-080		C-CAP, U 100P-50CH
C232	87-010-178-080		CHIP CAP 1000P	C153	87-012-195-080		C-CAP, U 100P-50CH
C241	87-012-358-080		C-CAP, S 0.47-10 ZF	C154	87-012-195-080		C-CAP, U 100P-50CH
C242	8A-CJ4-635-010		CAP, E 470-10 SRG3.5PITCH	C201	87-016-557-040		CAP, E 100-6.3 SF
C243	87-010-196-080		CHIP CAPACITOR, 0.1-25	C202	87-010-831-080		C-CAP, U, 0.1-16F
C246	87-012-393-080		C-CAP, S 0.22-16 R K	C203	87-010-382-080		CAP, ELECT 22-25V
C250	87-015-883-080		CHIP CAPACITOR, 0.022 (D)	C204	87-010-831-080		C-CAP, U, 0.1-16F
C301	87-010-374-040		CAP, E 47-10	C205	87-A10-902-080		C-CAP, U 0.47-10 K B
C351	87-010-197-080		CAP, CHIP 0.01 DM	C206	87-012-279-080		CAP, U 2700P-50
C352	87-010-197-080		CAP, CHIP 0.01 DM	C207	87-012-280-080		CAP, U 3300P-50
C353	87-010-197-080		CAP, CHIP 0.01 DM	C208	87-A10-504-080		C-CAP, U 0.047-16 K B
C354	87-010-197-080		CAP, CHIP 0.01 DM	C209	87-012-266-080		C-CAP, U 220P-50 B
C371	87-010-379-040		CAP, E 22-16 M 11L SME	C210	87-A10-902-080		C-CAP, U 0.47-10 K B
C372	87-010-379-040		CAP, E 22-16 M 11L SME	C211	87-010-831-080		C-CAP, U, 0.1-16F
C373	87-A12-078-040		CAP, E 47-35 SMG	C214	87-012-266-080		C-CAP, U 220P-50 B
CN101	87-099-720-010		CONN, 30P TYK-B(P)	C215	87-A12-319-080		C-CAP, U 0.1-25 K B
CN103	87-A61-277-010		CONN, 10P V 52806	C216	87-012-268-080		C-CAP, U 330P-50 B
CN302	87-A60-625-010		CONN, 8P V 2MM JMT	C217	87-012-266-080		C-CAP, U 220P-50 B
CNA303	8A-CJ4-641-110		CONN ASSY, 8P H SW	C218	87-012-195-080		C-CAP, U 100P-50CH
CNA304	8A-CJ4-649-010		CONN ASSY, 4P V FR	C220	87-012-286-080		CAP, U 0.01-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C251	87-010-831-080		C-CAP,U,0.1-16F	C759	87-016-459-080		CAP,E 470-10 SMG
C252	87-010-831-080		C-CAP,U 0.1-16F	C760	87-012-286-080		CAP, U 0.01-25
C253	87-010-382-080		CAP, ELECT 22-25V	C762	87-010-831-080		C-CAP,U,0.1-16F
C254	87-012-286-080		C-CAP,U,0.01-25 K B	C771	87-012-274-080		CHIP CAP,U 1000P-50B
C255	87-010-831-080		C-CAP,U,0.1-16F	C772	87-012-274-080		CHIP CAP,U 1000P-50B
C256	87-010-382-080		CAP, ELECT 22-25V	C773	87-012-274-080		CHIP CAP,U 1000P-50B
C257	87-016-557-040		CAP,E 100-6.3 SF	C774	87-012-274-080		CHIP CAP,U 1000P-50B
C258	87-016-557-040		CAP,E 100-6.3 SF	C775	87-010-391-080		CAP,E 10-35 SME
C259	87-016-557-040		CAP,E 100-6.3 SF	C776	87-010-391-080		CAP,E 10-35 SME
C260	87-010-831-080		C-CAP,U,0.1-16F	C777	87-012-188-080		C-CAP,U 47P-50 CH
C264	87-010-831-080		C-CAP,U,0.1-16F	C778	87-012-188-080		C-CAP,U 47P-50 CH
C267	87-010-831-080		C-CAP,U,0.1-16F	C779	87-010-831-080		C-CAP,U,0.1-16F
C401	87-010-263-080		CAP, ELECT 100-10V	CN401	87-A60-424-010		CONN,16P V TOC-B
C402	87-A12-068-080		CAP,E 470-16 SMG	CN402	87-A60-154-010		CONN,6P H FE
C403	87-012-195-080		C-CAP,U 100P-50CH	CN403	87-A60-153-010		CONN,5P H FE
C405	87-012-274-080		CHIP CAP,U 1000P-50B	CN404	87-A60-131-010		CONN,6P V FE
C407	87-012-286-080		CAP, U 0.01-25	CN405	87-A60-619-010		CONN,2P V 2MM JMT
C452	87-010-831-080		C-CAP,U,0.1-16F	CN406	87-A61-277-010		CONN,10P V 52806
C501	87-010-384-080		CAP, ELECT 100-25V	FC401	8A-FP4-603-010		FF-CABLE,16P 1.0 250MM
C502	87-010-384-080		CAP, ELECT 100-25V	FC402	88-906-101-110		FF-CABLE,6P 1.25
C503	87-010-831-080		C-CAP,U,0.1-16F	FC403	88-905-251-110		FF-CABLE,5P 1.25
C504	87-016-251-040		CAP,E 220-16 SMG	L101	87-A50-439-080		C-COIL, 47UH K LQH3C34
C505	87-010-831-080		C-CAP,U,0.1-16F	L201	87-A50-536-080		C-COIL,10UH K LQH3C24
C506	87-012-282-080		CAP, U 4700P-50	L202	87-A50-322-080		C-COIL,S BK2125 LM252
C507	87-012-270-080		CAP, U 470P-50	L251	87-A50-439-080		C-COIL, 47UH K LQH3C34
C508	87-010-831-080		C-CAP,U,0.1-16F	L252	87-A50-536-080		C-COIL,10UH K LQH3C24
C509	87-010-831-080		C-CAP,U,0.1-16F	L502	87-A50-673-010		COIL,100UH RCR875D
C510	87-010-831-080		C-CAP,U,0.1-16F	L601	87-A50-536-080		C-COIL,10UH K LQH3C24
C511	87-016-251-040		CAP,E 220-16 SMG	L652	83-XM1-617-080		C-COIL,BK2125HM601
C512	87-010-112-080		CAP, ELECT 100-16V	L701	87-A50-536-080		C-COIL,10UH K LQH3C24
C513	87-010-831-080		C-CAP,U,0.1-16F	L751	87-A50-536-080		C-COIL,10UH K LQH3C24
C514	87-010-831-080		C-CAP,U,0.1-16F	R257	87-022-237-080		C-RES,U 8.2K-1/16W F
C515	87-010-263-080		CAP, ELECT 100-10V	R258	87-022-237-080		C-RES,U 8.2K-1/16W F
C601	87-010-382-080		CAP, ELECT 22-25V	R508	87-022-229-080		C-RES,U 3.9K-1/16W F
C602	87-010-831-080		C-CAP,U,0.1-16F	R509	87-022-215-080		CHIP RESISTOR U 1K-1/16W F
C603	87-010-831-080		C-CAP,U,0.1-16F	X101	87-A70-289-080		VIB,CER 12.5MHZ CSTMTW
C604	87-010-831-080		C-CAP,U,0.1-16F	X701	87-A70-330-010		VIB,XTAL 14.725MHZ HC-49/U03
C651	87-010-382-080		CAP, ELECT 22-25V	X751	87-A70-046-010		VIB,XTAL 16.934MHZ
C652	87-010-831-080		C-CAP,U,0.1-16F				
C653	87-010-831-080		C-CAP,U,0.1-16F				
C654	87-010-831-080		C-CAP,U,0.1-16F	FACE-A C.B			
C655	87-010-831-080		C-CAP,U,0.1-16F	C824	87-010-197-080		CAP, CHIP 0.01 DM
C656	87-010-831-080		C-CAP,U,0.1-16F	CN801	87-A60-619-010		CONN,2P V 2MM JMT
C657	87-010-831-080		C-CAP,U,0.1-16F				
C658	87-010-831-080		C-CAP,U,0.1-16F	FACE-B C.B			
C701	87-010-382-080		CAP, ELECT 22-25V	C801	87-010-322-080		C-CAP,S 100P-50 CH
C702	87-010-831-080		C-CAP,U,0.1-16F	C802	87-010-322-080		C-CAP,S 100P-50 CH
C703	87-010-831-080		C-CAP,U,0.1-16F	C821	87-010-196-080		CHIP CAPACITOR,0.1-25
C704	87-010-831-080		C-CAP,U,0.1-16F	C826	87-010-197-080		CAP, CHIP 0.01 DM
C705	87-012-184-080		C-CAP,U 33P-50 CH	C827	87-010-197-080		CAP, CHIP 0.01 DM
C706	87-012-184-080		C-CAP,U 33P-50 CH	C829	87-010-197-080		CAP, CHIP 0.01 DM
C707	87-012-286-080		CAP, U 0.01-25	C830	87-010-197-080		CAP, CHIP 0.01 DM
C708	87-010-263-080		CAP, ELECT 100-10V	CN804	87-A60-620-010		CONN,3P V 2MM JMT
C709	87-010-831-080		C-CAP,U,0.1-16F	CNA302	8A-CL4-642-110		CONN ASSY,8P H PANEL
C710	87-010-403-080		CAP, ELECT 3.3-50V	CNA801	8A-CJ4-650-010		CONN ASSY,2P V FACE A
C711	87-012-286-080		CAP, U 0.01-25	D831	87-A40-496-040		LED,SLR-342MCT31 GRN
C712	87-012-271-080		CAP, U 560P-50	D832	87-A40-496-040		LED,SLR-342MCT31 GRN
C713	87-012-193-080		C-CAP,U 82P-50 CH	D833	87-A40-496-040		LED,SLR-342MCT31 GRN
C714	87-012-271-080		CAP, U 560P-50	D834	87-A40-496-040		LED,SLR-342MCT31 GRN
C715	87-012-193-080		C-CAP,U 82P-50 CH	D835	87-A40-496-040		LED,SLR-342MCT31 GRN
C716	87-012-267-080		C-CAP,U 270P-50 B	R801	87-022-341-080		C-RES,S 560-1/10W F
C717	87-012-267-080		C-CAP,U 270P-50 B	R802	87-022-341-080		C-RES,S 560-1/10W F
C751	87-010-555-040		CAP,E 100-10 GAS	R803	87-022-198-080		C-RES,S 680 1/10WF
C752	87-010-831-080		C-CAP,U,0.1-16F	R804	87-022-198-080		C-RES,S 680 1/10WF
C753	87-010-831-080		C-CAP,U,0.1-16F	R805	87-022-343-080		C-RES,S 820-1/10W F
C754	87-012-174-080		CAP CHIP 12P-50 J CH	R806	87-022-344-080		C-RES,S 1K-1/10W F
C755	87-012-174-080		CAP CHIP 12P-50 J CH	R807	87-022-348-080		C-RES,S 2.2K-1/10W F
C756	87-010-391-080		CAP,E 10-35 SME	R811	83-212-859-080		C-RES,S 1.8K-1/10W F
C757	87-010-391-080		CAP,E 10-35 SME	R891	83-212-858-080		C-RES,1.5K-1/8W F
C758	87-010-831-080		C-CAP,U,0.1-16F				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R892	87-022-198-080	C-RES, S680	1/10WF
R893	87-022-360-080	C-RES, S 39K	1/10WF
S801	87-A90-095-080	SW, TACT	EVQ11G04M
S802	87-A90-095-080	SW, TACT	EVQ11G04M
S803	87-A90-095-080	SW, TACT	EVQ11G04M
S804	87-A90-095-080	SW, TACT	EVQ11G04M
S807	87-A90-095-080	SW, TACT	EVQ11G04M
S809	87-A90-095-080	SW, TACT	EVQ11G04M
S810	87-A90-095-080	SW, TACT	EVQ11G04M
FACE-C C.B			
C825	87-010-197-080	CAP, CHIP	0.01 DM
CNA804	8A-CL4-644-010	CONN ASSY, 3P	V FACE C
R861	87-022-343-080	C-RES, S 820	1/10W F
R862	83-212-859-080	C-RES, S 1.8K	1/10W F
R863	87-022-348-080	C-RES, S 2.2K	1/10W F
R864	87-022-349-080	C-RES, S 2.7K	1/10W F
R865	83-212-860-080	C-RES, S 3.9K	1/8W F
R866	87-022-201-080	C-RES, S 4.7K	1/10W F
R867	87-022-353-080	C-RES, S 6.8K	1/10W F
R868	87-022-355-080	C-RES, S 10K	1/10W F
S861	87-A90-095-080	SW, TACT	EVQ11G04M
S862	87-A90-095-080	SW, TACT	EVQ11G04M
S863	87-A90-095-080	SW, TACT	EVQ11G04M
S864	87-A90-095-080	SW, TACT	EVQ11G04M
S865	87-A90-095-080	SW, TACT	EVQ11G04M
S866	87-A90-095-080	SW, TACT	EVQ11G04M
SW-1 C.B			
C901	87-010-264-040	CAP, E 100-10	5L
C902	87-010-264-040	CAP, E 100-10	5L
CN303	87-A60-672-010	CONN, 8P H 2MM	JMT
CNA901	8A-CJ4-646-010	CONN ASSY, 2P	V SW-2
S902	87-A90-117-010	SW, PUSH 1-1-1	MPU103
S903	87-A90-117-010	SW, PUSH 1-1-1	MPU103
S904	87-A90-117-010	SW, PUSH 1-1-1	MPU103
SW-2 C.B			
S901	87-A90-117-010	SW, PUSH 1-1-1	MPU103
PT1 C.B			
△ C1	87-010-387-080	CAP, E 470-25	M SMG
△ C3	87-A10-479-080	CAP, CER 2200P-250	M E KH
C5	87-010-403-080	CAP, ELECT 3.3-50V	
△ CN1	87-A60-620-010	CONN, 3P V 2MM	JMT
△ PT1	8A-CJ4-608-010	PT, E ACJ-4	
△ PT2	8A-NF8-662-010	PT, SUB ANF-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
PT2 C.B			
H51	87-A90-511-010	HLDR, WIRE 2.5-10P	
△ PR51	87-A90-094-080	PROTECTOR, 4A 491SERIES	60V
△ PR52	87-A90-094-080	PROTECTOR, 4A 491SERIES	60V
△ PR53	87-026-681-080	PROTECTOR, 5A 60V	491
△ PR54	87-026-681-080	PROTECTOR, 5A 60V	491
△ PR55	87-026-681-080	PROTECTOR, 5A 60V	491
△ PR56	87-026-681-080	PROTECTOR, 5A 60V	491
DECK C.B			
CON1	87-009-352-010	CONN, 9P H WHT	PH
M1	87-045-347-010	MOT, SHU2L 70	
SFR1	87-024-581-010	SFR, 3.3K H KVSF637A	

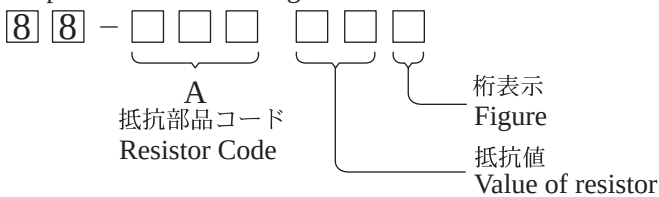
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SOL2	82-ZM3-628-010	SOL ASSY, 23	S0
SW2	87-036-110-010	SW, MICRO	SPPB62
SW3	87-036-110-010	SW, MICRO	SPPB62
SW4	87-036-110-010	SW, MICRO	SPPB62
SW5	87-036-110-010	SW, MICRO	SPPB62
SW6	87-A90-248-010	SW, MICRO	ESE11SH2CXQ
W1	82-ZM1-625-010	RBN-CORD, 4P	55
HEAD C.B			
CON301	85-ZM3-602-010 8A-CJ4-647-110	PWB, FLEX A	CONN ASSY, 7P V RPH SHILD
CD LOAD C.B			
CON6	87-099-210-010	CONN, 5P H BLK	6216
M1	87-045-305-010	MOTOR, RF-500TB	
SW1	87-036-110-010	SW, MICRO	SPPB62
SW2	87-036-110-010	SW, MICRO	SPPB62
CD DRIVE C.B			
CON3	87-A60-086-010	CONN, 6P H	6216
M20	87-045-358-010	MOT, RF-310TA	43
M21	87-045-356-010	MOT, RF-310TA	30
SW1	87-A90-042-010	SW, LEAF MSW-17310MVP0	
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	
C721	87-012-176-080	CAP, 15P	
C722	87-012-176-080	CAP, 15P	
C723	87-012-274-080	CHIP CAP, U 1000P-50B	
C725	87-018-131-080	CAP, TC U 1000P-50	KB
C727	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C728	87-010-248-080	CAP, ELECT 220-10V	
C729	87-012-274-080	CHIP CAP, U 1000P-50B	
C731	87-012-286-080	CAP, U 0.01-25	
C733	87-012-280-080	C-CAP, U 3300P-50	KB
C734	87-012-280-080	C-CAP, U 3300P-50	KB
C752	87-012-282-080	C-CAP, U 4700P-50	KB
C753	87-012-195-080	C-CAP, U 100P-50	J CH
C755	87-012-286-080	CAP, U 0.01-25	
C756	87-012-286-080	CAP, U 0.01-25	
C757	87-012-188-080	C-CAP, U 47P-50	CH
C758	87-012-167-080	C-CAP, U 5P-50	CH
C761	87-010-196-080	C-CAP, S 0.1-25	ZF
C762	87-012-286-080	CAP, U 0.01-25	
C763	87-010-829-080	CAP, U 0.047-16	
C765	87-012-286-080	CAP, U 0.01-25	
C766	87-010-197-080	C-CAP, S 0.01-25	KB
C768	87-012-286-080	CAP, U 0.01-25	
C769	87-010-260-080	CAP, ELECT 47-25V	
C770	87-010-829-080	CAP, U 0.047-16	
C771	87-010-383-080	CAP, ELECT 33-25V	
C772	87-010-829-080	CAP, U 0.047-16	
C773	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C774	87-010-263-080	CAP, ELECT 100-10V	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C775	87-010-404-080		CAP,ELECT 4.7-50V	C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C776	87-012-286-080		CAP,U 0.01-25	C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C777	87-010-493-080		CAP,E 0.47-50 M 5L SRE	C940	87-012-286-080		C-CAP,U 0.01-25 KB
C778	87-010-401-080		CAP,ELECT 1-50V	C942	87-012-172-080		C-CAP,U 6P-50 D CH
C779	87-010-401-080		CAP,ELECT 1-50V	C947	87-012-286-080		C-CAP,U 0.01-25 KB
C780	87-010-196-080		CHIP CAPACITOR,0.1-25	C949	87-A10-039-080		C-CAP,U 470P-50 J CH
C781	87-010-405-080		CAP,ELECT 10-50V	C952	87-012-286-080		C-CAP,U 0.01-25 KB
C782	87-010-405-080		CAP,ELECT 10-50V	C958	87-010-197-080		C-CAP,S 0.01-25 KB
C783	87-012-286-080		CAP,U 0.01-25	C959	87-010-831-080		C-CAP,U 0.1-16 ZF
C784	87-012-286-080		CAP,U 0.01-25	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C785	87-010-402-080		CAP,ELECT 2.2-50V	C962	87-010-401-080		CAP,E 1-50 M 11L SME
C786	87-010-402-080		CAP,ELECT 2.2-50V	CF801	87-008-423-010		FLTR,CF SFE10.7MS3G-A
C787	87-012-275-080		C-CAP,U 1200P-50 B	CF802	82-785-747-010		CF,MS2 GHY R
C788	87-012-275-080		C-CAP,U 1200P-50 B	CN701	87-A60-700-010		CONN,13P H GRY TUC-P13X-C1
C789	87-012-275-080		C-CAP,U 1200P-50 B	FFE801	A8-6ZA-19H-030		6ZA-1 FEMENM
C790	87-012-275-080		C-CAP,U 1200P-50 B	J801	87-033-241-010		TERMINAL,ANT 2P AJ-2039
C791	87-010-405-080		CAP,ELECT 10-50V	L771	87-A50-266-010		COIL,FM DET-2N(TOK)
C793	87-012-273-080		C-CAP,U 820P-50 B	L772	87-A90-733-010		FLTR,PCFAZH-450(TOK)
C794	87-010-406-080		CAP,ELECT 22-50	L781	87-005-847-080		COIL,2.2UH (CECS)
C795	87-010-596-080		CAP,S 0.047-16	L791	87-A50-027-010		COIL,1 POLE MPX(TOK)
C796	87-010-403-080		CAP,ELECT 3.3-50V	L792	87-A50-027-010		COIL,1 POLE MPX(TOK)
C797	87-012-276-080		C-CAP,U 1500P-50 KB	L832	87-005-847-080		COIL,2.2UH K CECS
C798	87-012-276-080		C-CAP,U 1500P-50 KB	L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ
C799	87-010-829-080		CAP,U 0.047-16	L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ
C812	87-012-286-080		CAP,U 0.01-25	L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)
C814	87-012-286-080		CAP,U 0.01-25	TC942	87-A91-658-010		TRIMMER,30P 4.0X4.5 ECRL
C820	87-010-260-080		CAP,ELECT 47-25V	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
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				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗 Chip resistor

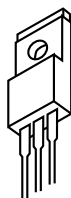
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

CC5551
CSA1585
CSB1058
CSC4115
KTA1266
KTC3198



B C E

2SB1370
2SB1625
2SD2494



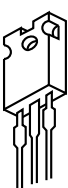
E C B

2SC4115



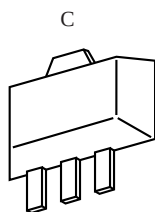
E C B

CSD655



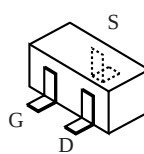
E C B

2SA1357

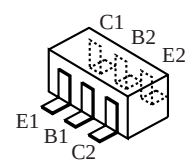


B C E

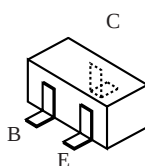
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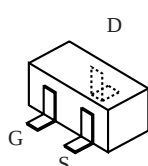
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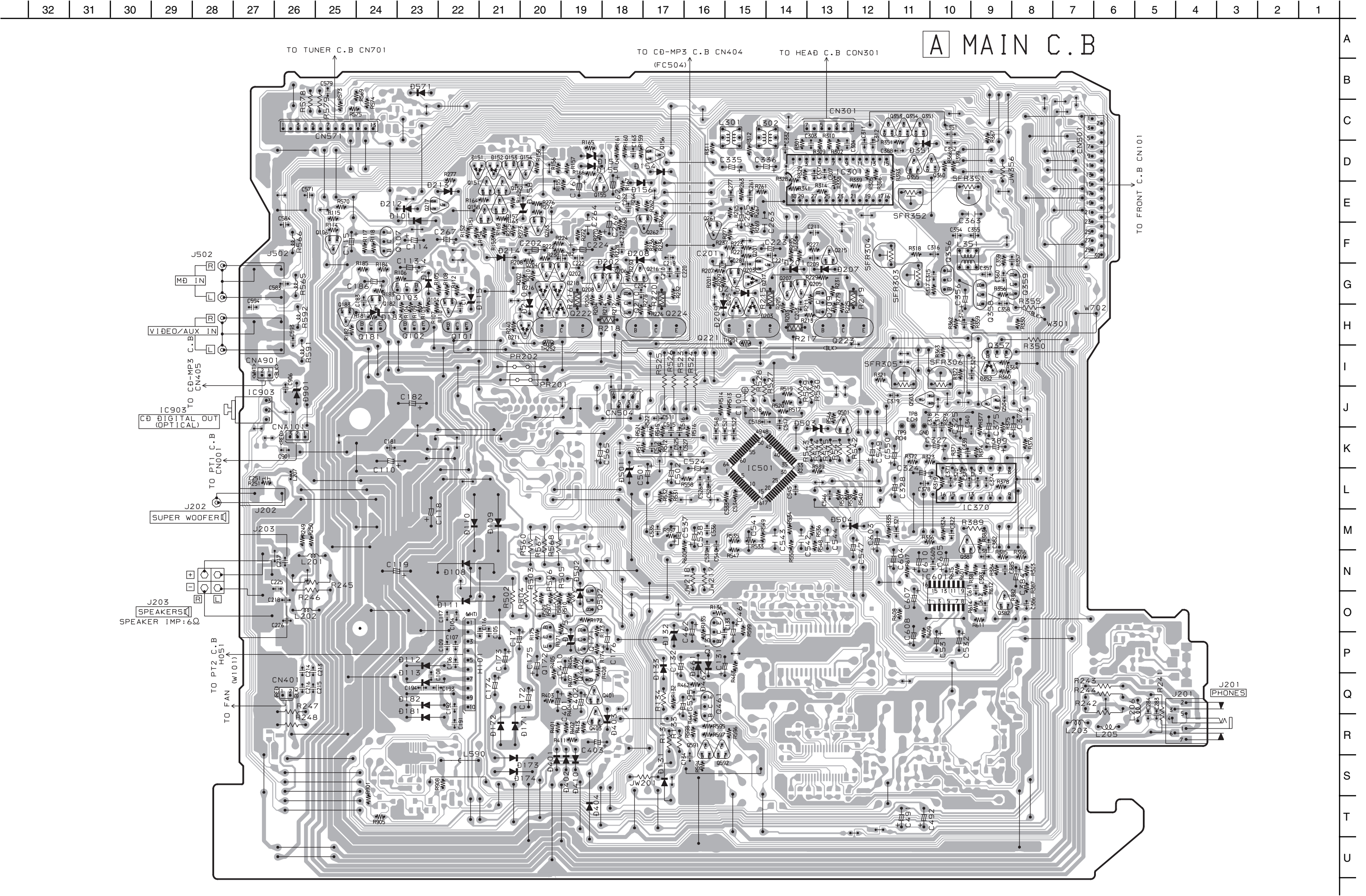
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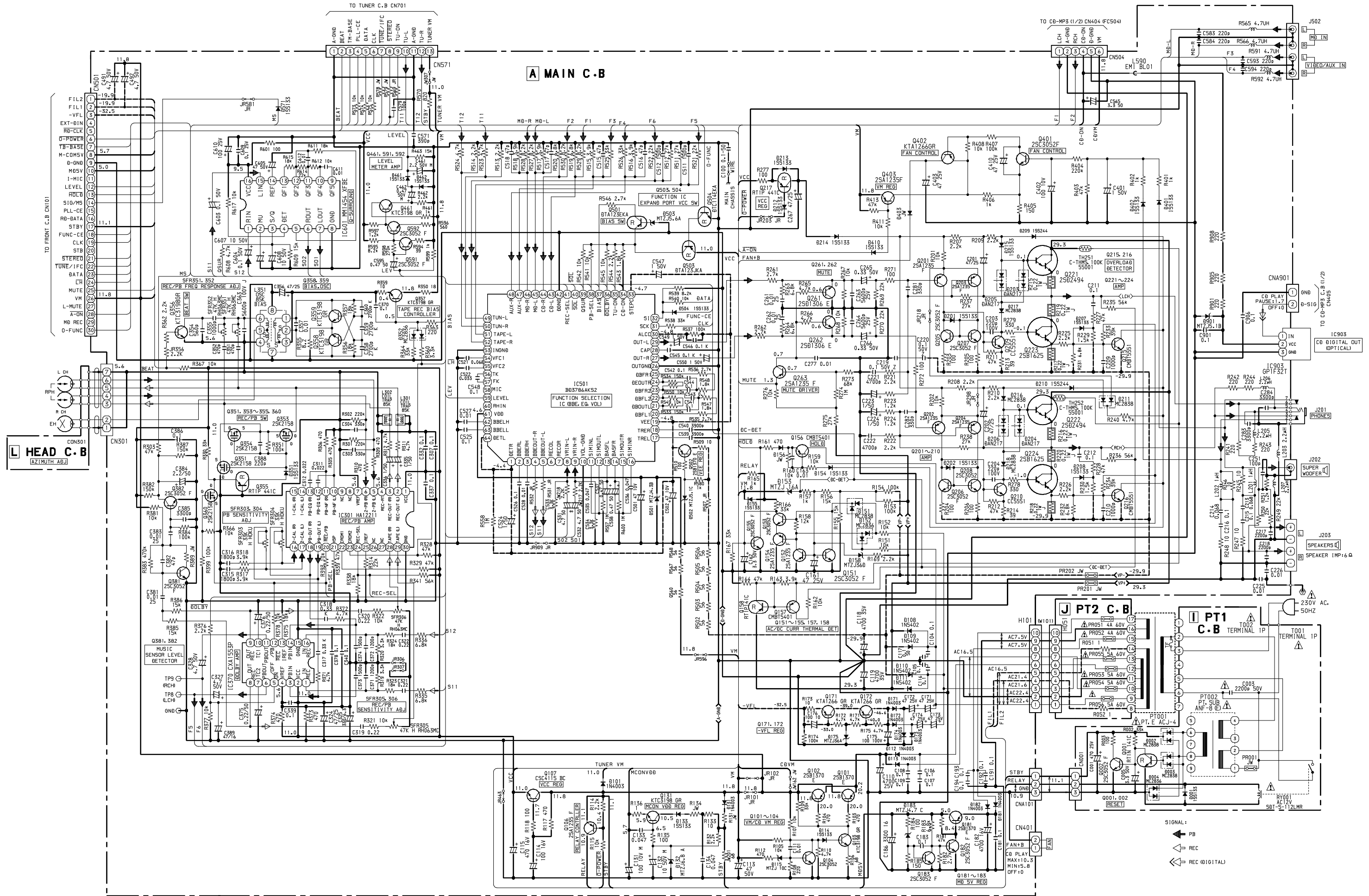
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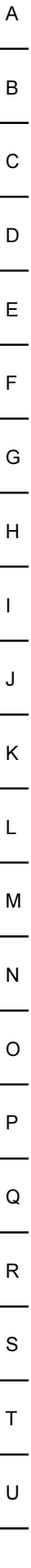


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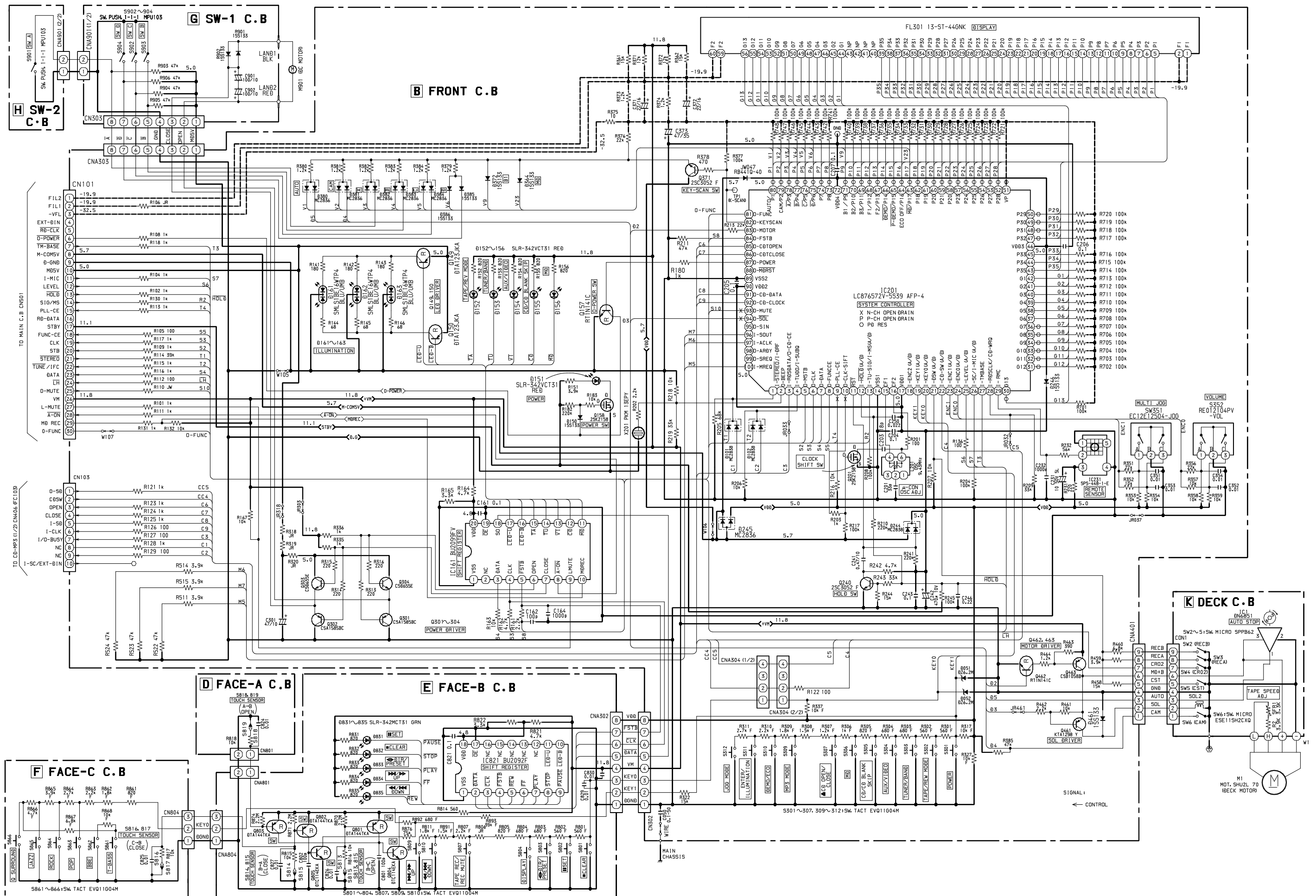


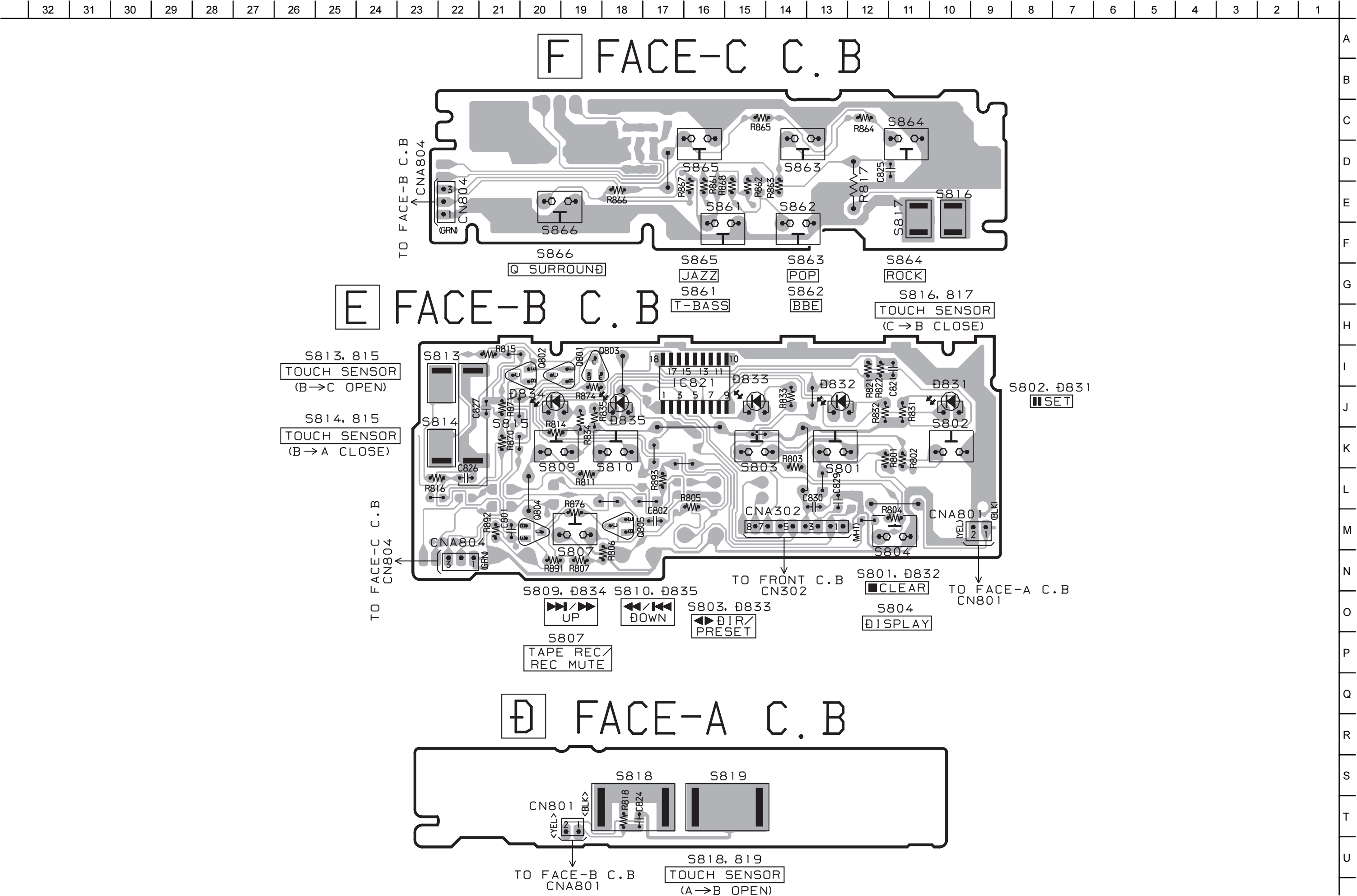
SCHEMATIC DIAGRAM – 1 (MAIN / PT1 / PT2 / HEAD)

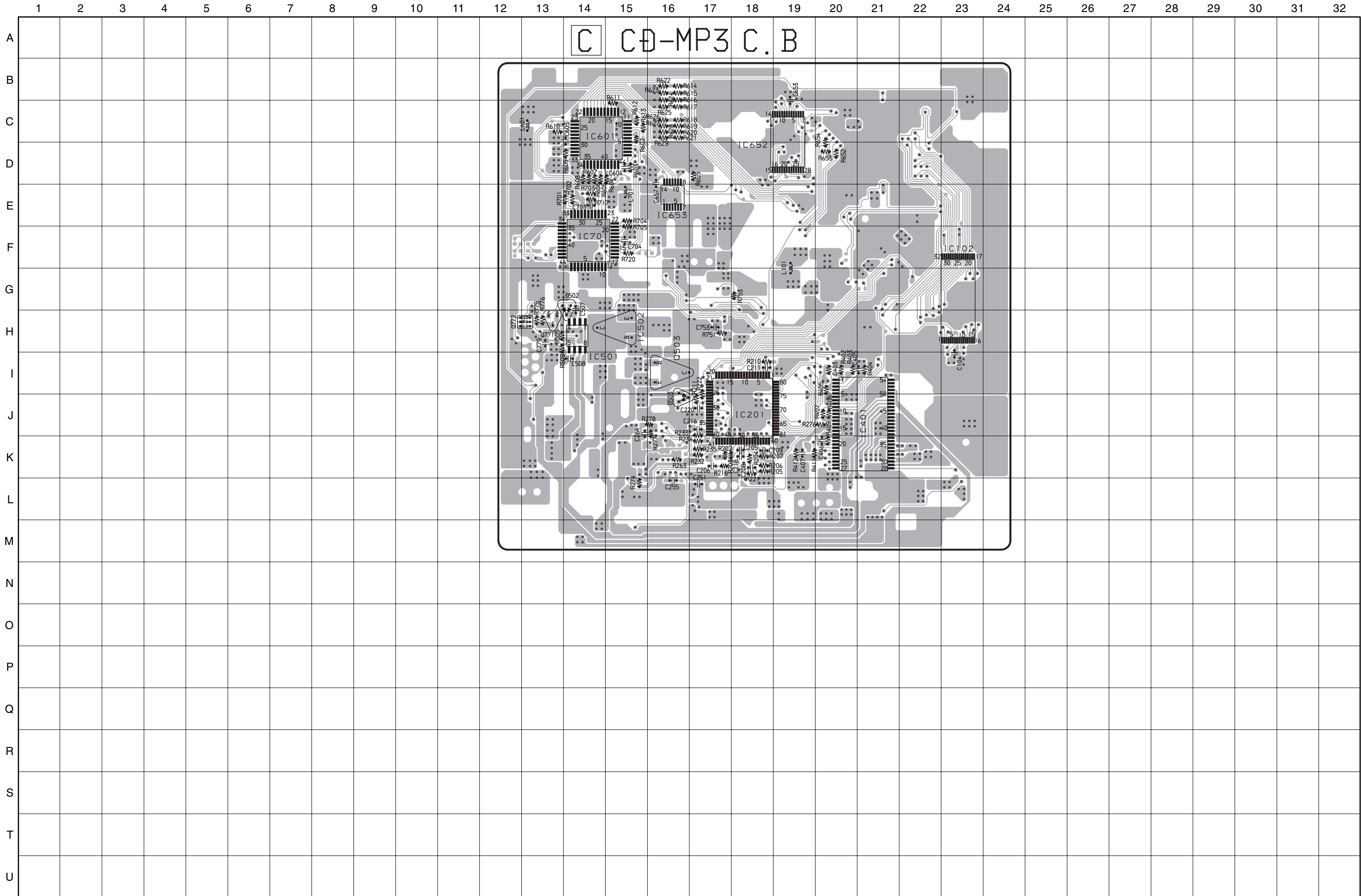




SCHEMATIC DIAGRAM – 2 (FRONT / SW – 1 / SW – 2 / FACE – A / FACE – B / FACE – C / DECK)

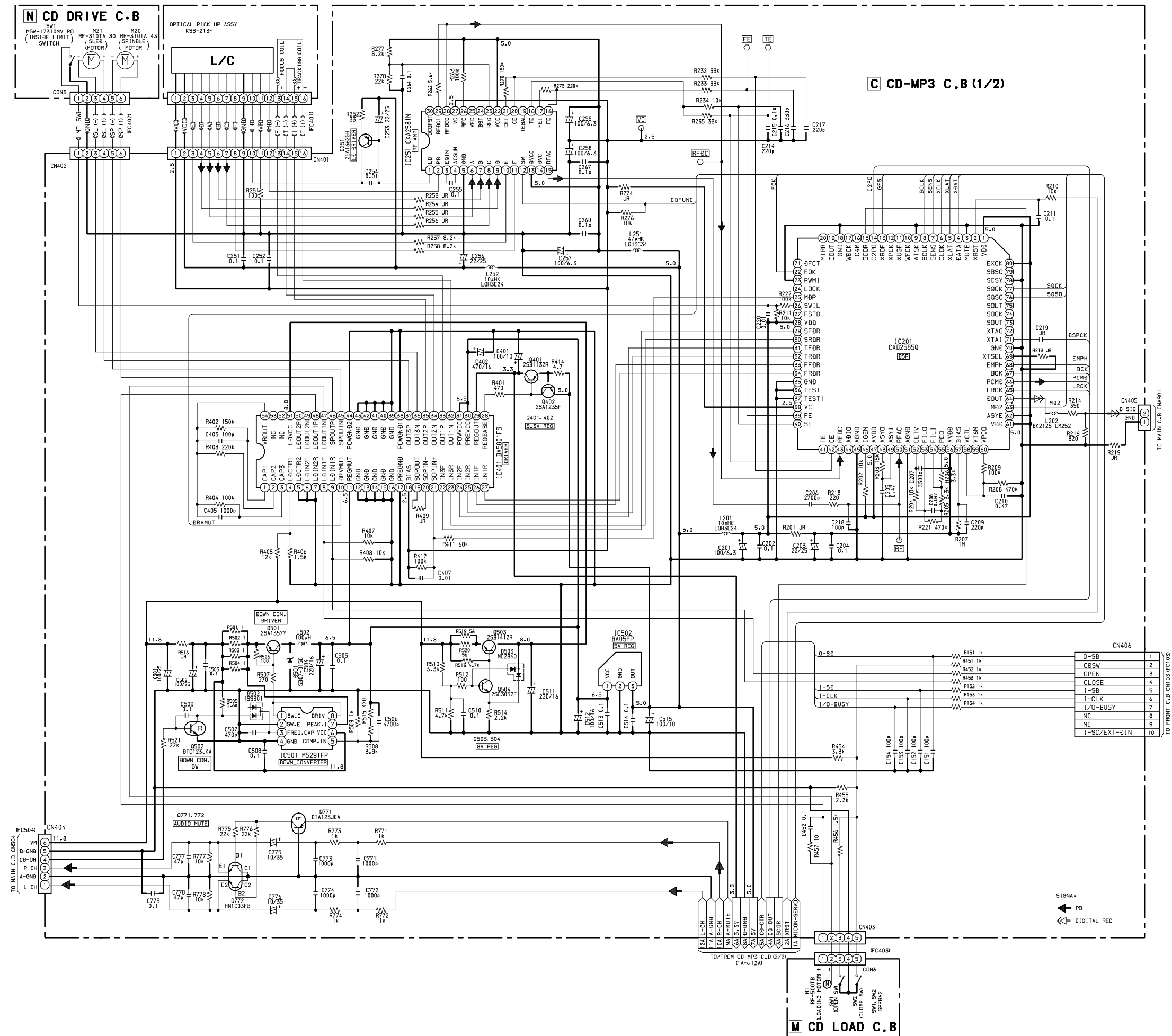








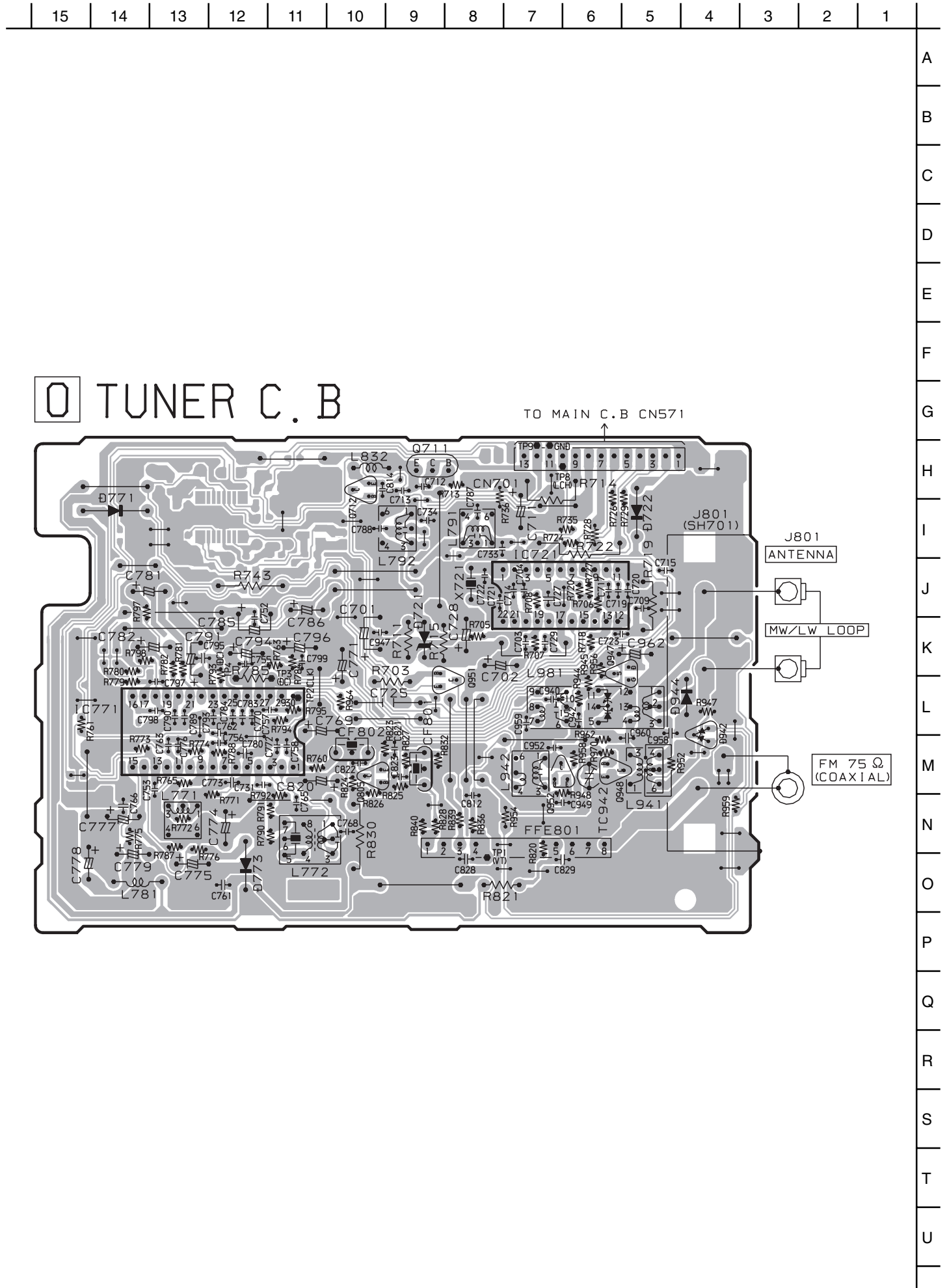
SCHEMATIC DIAGRAM – 3 (CD – MP3 : 1 / 2 / CD LOAD / CD DRIVE)



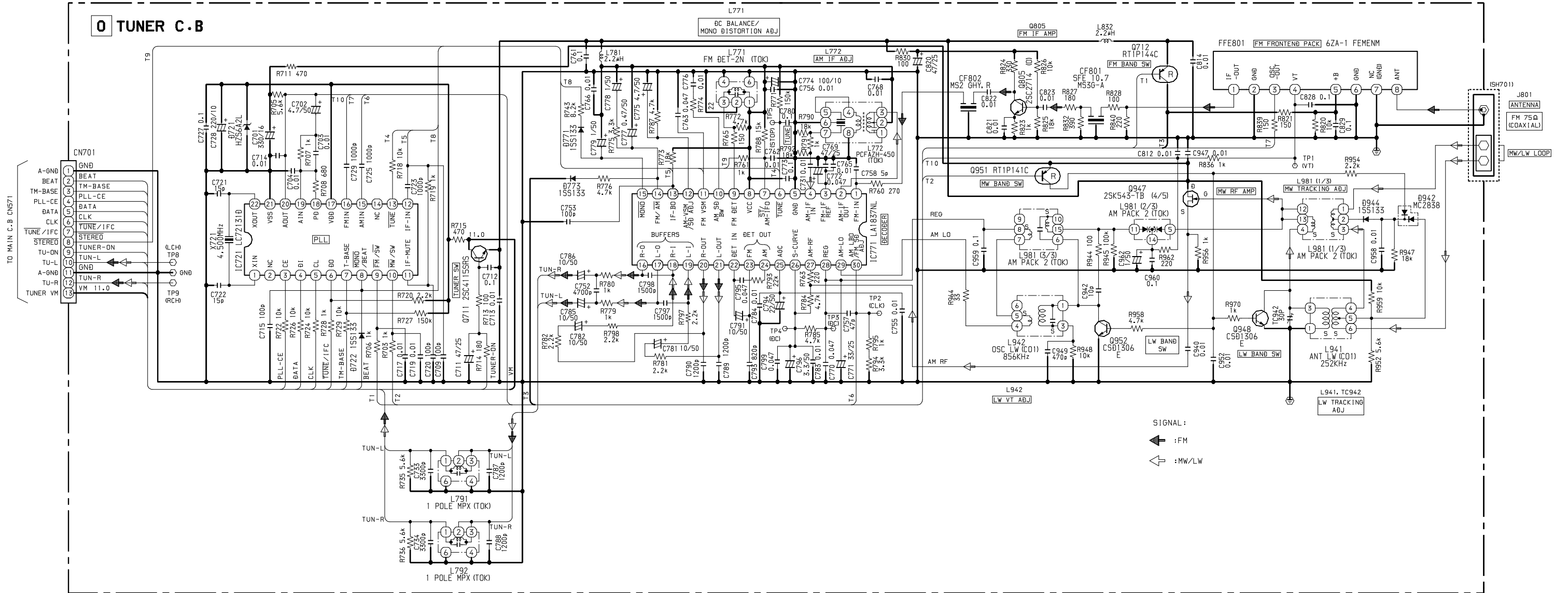
IC652
T15M256A-70P



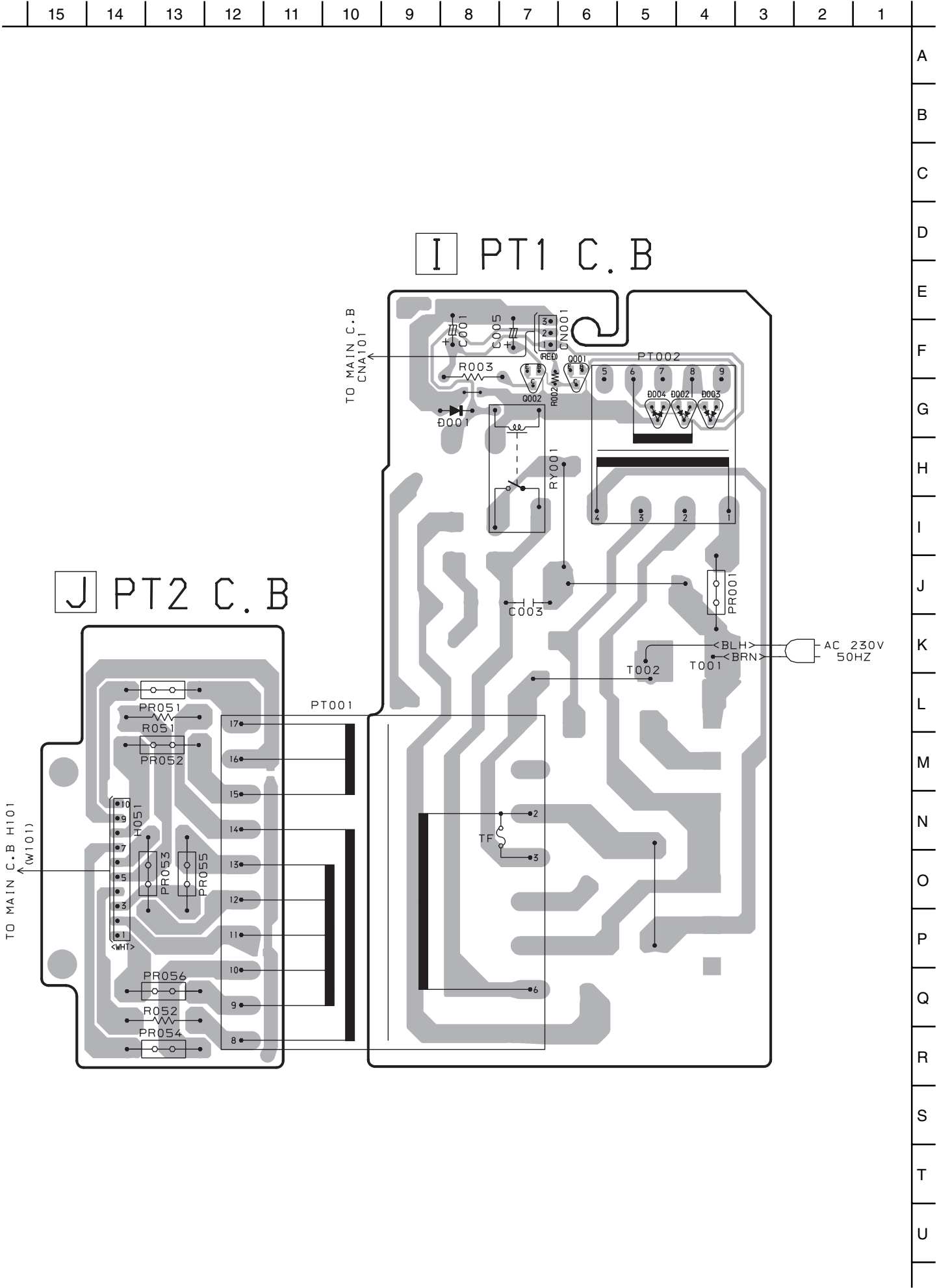
WIRING – 5 (TUNER)



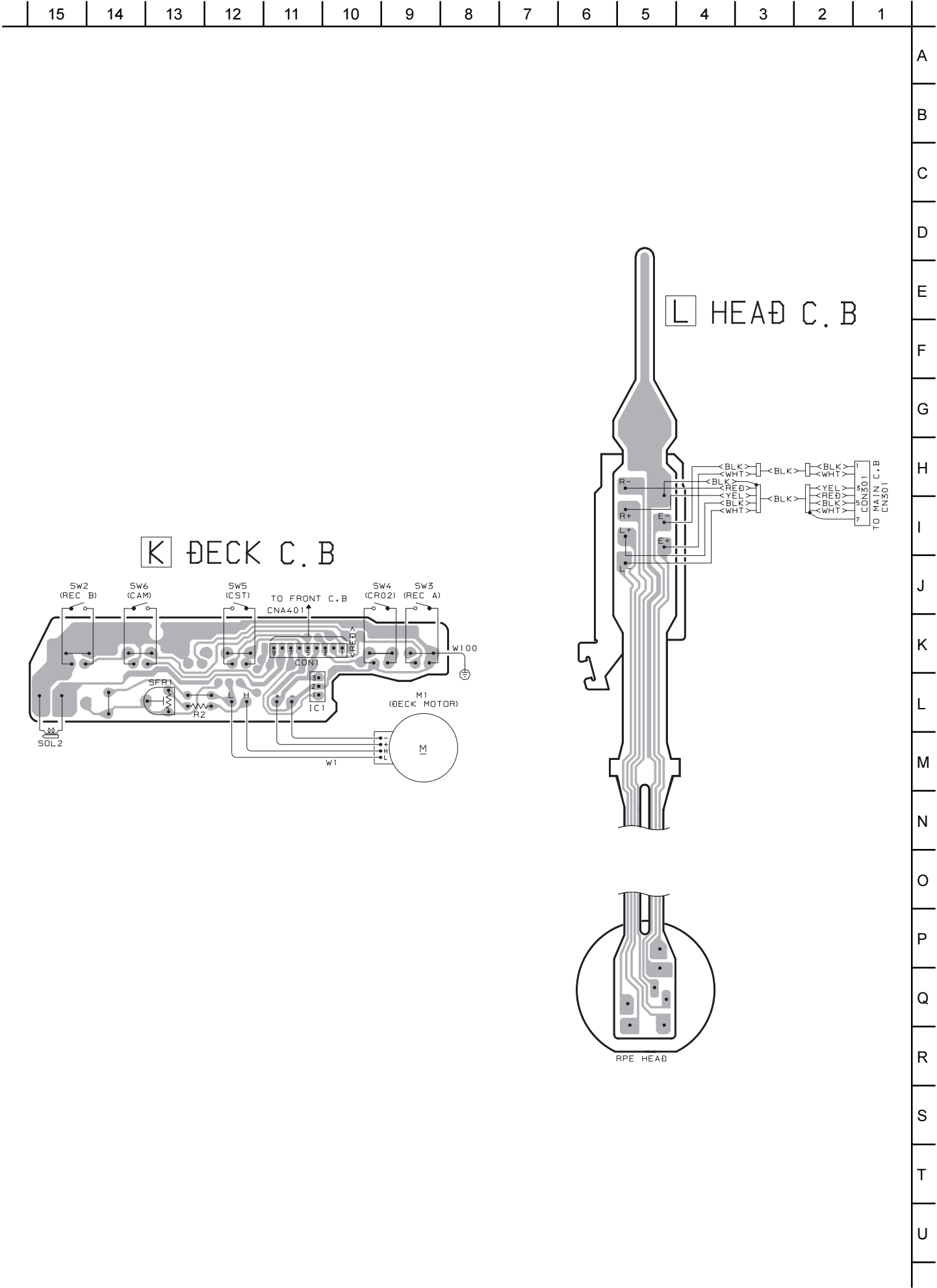
SCHEMATIC DIAGRAM-5 (TUNER)



WIRING – 6 (PT1 / PT2)

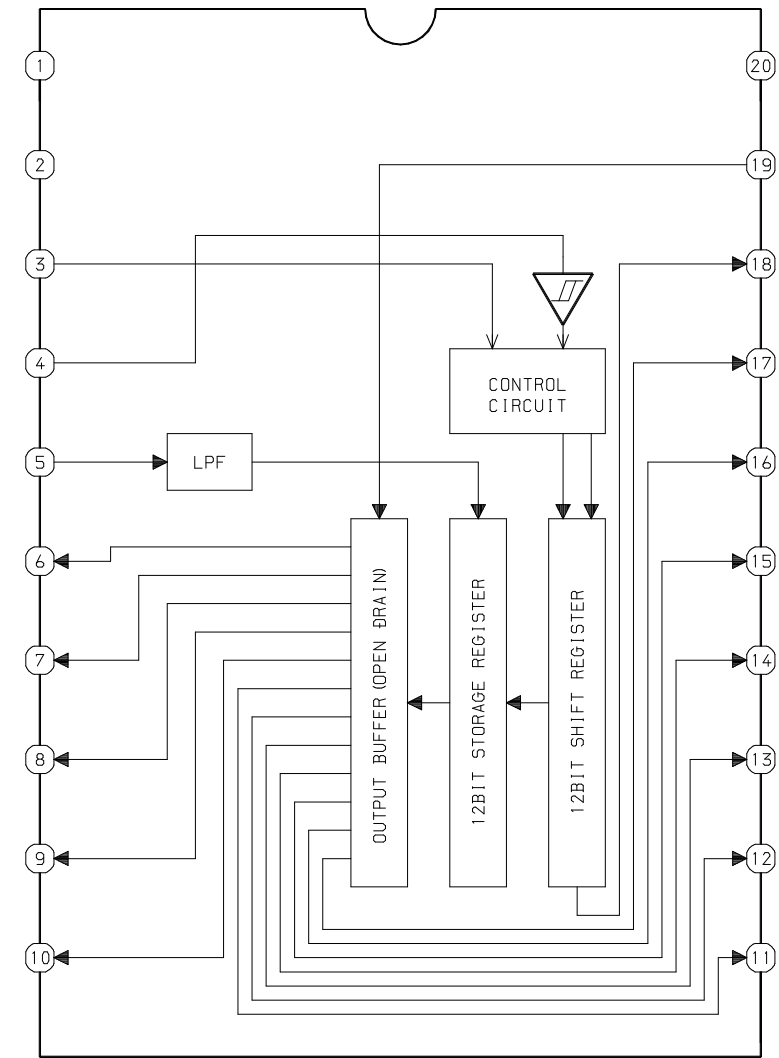


WIRING – 7 (DECK / HEAD)

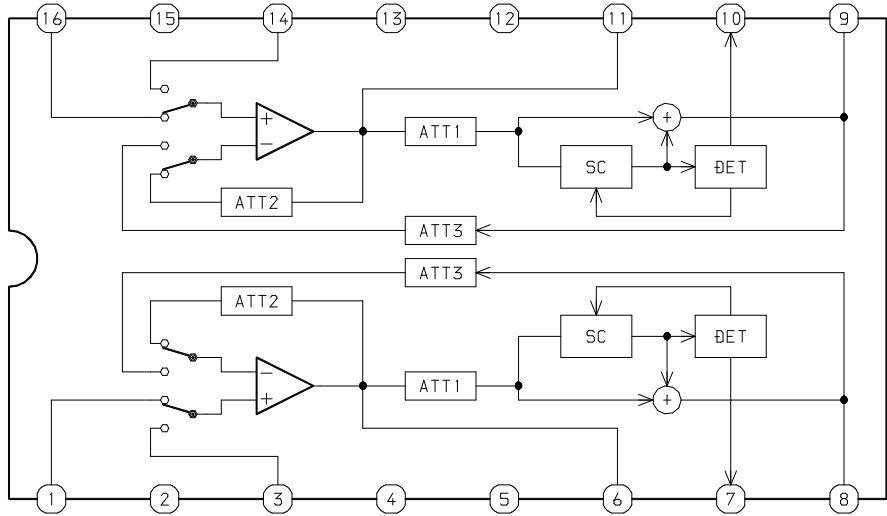


IC BLOCK DIAGRAM

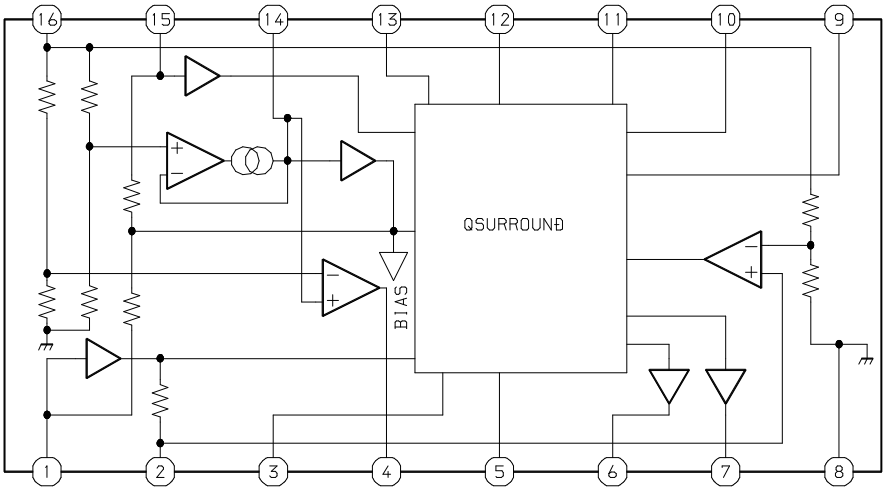
IC, BU2099FV



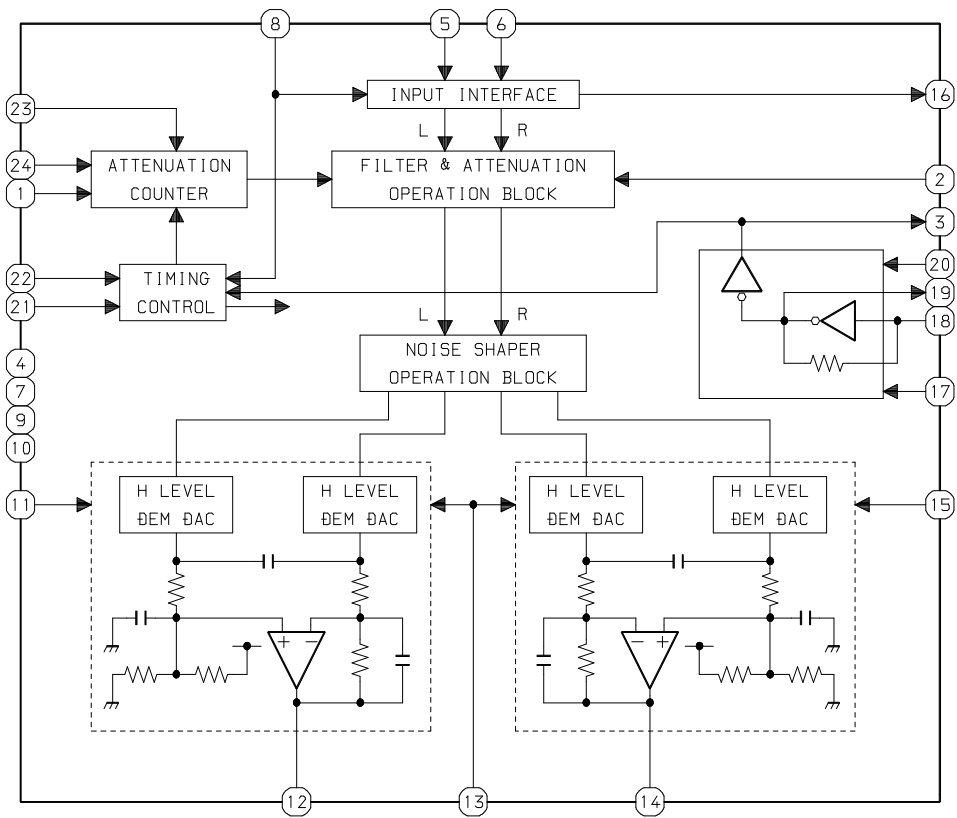
IC, CXA1553P



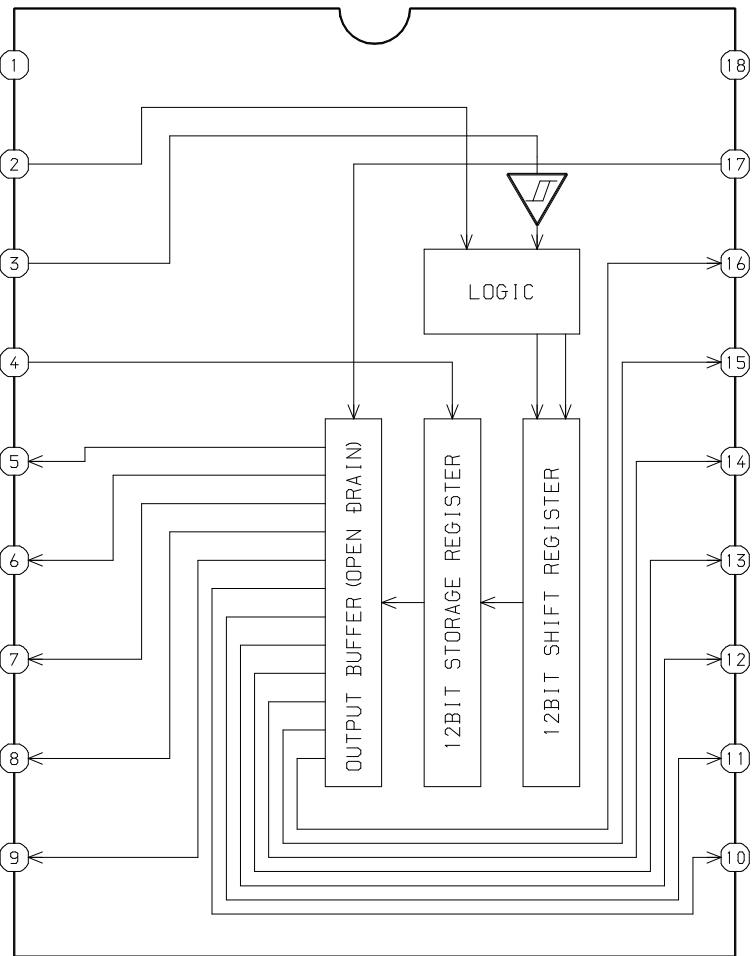
IC, MM1454XFBE



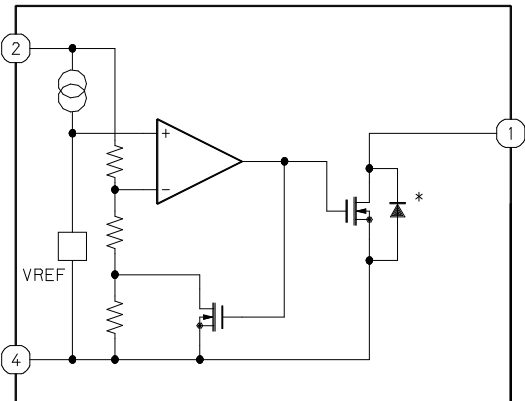
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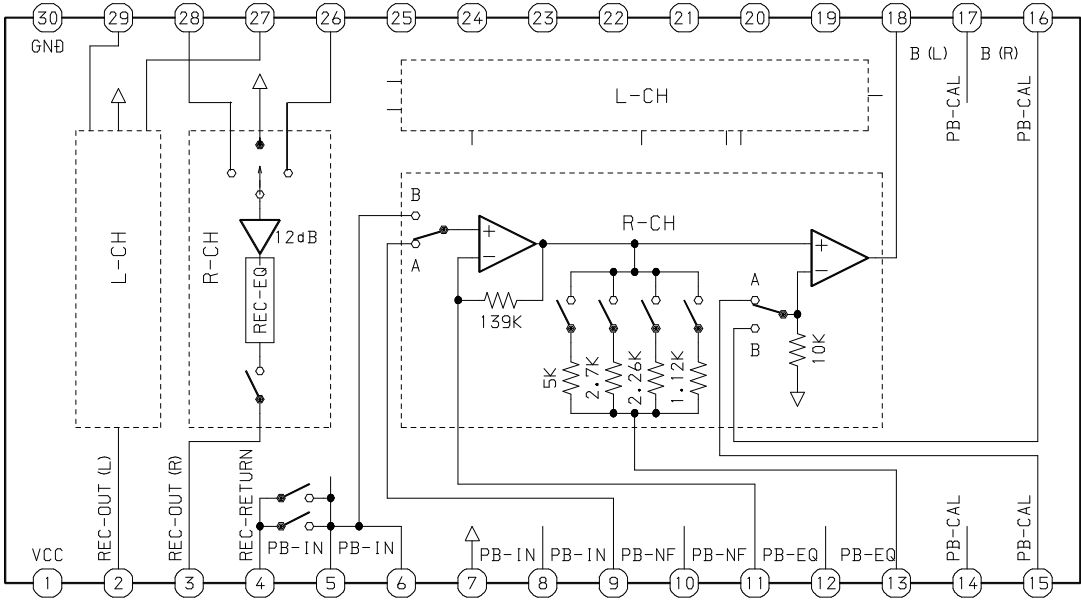
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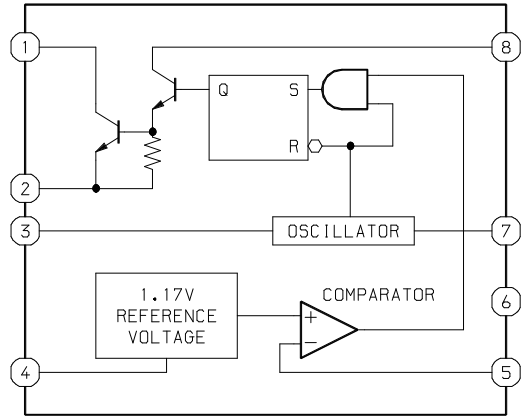
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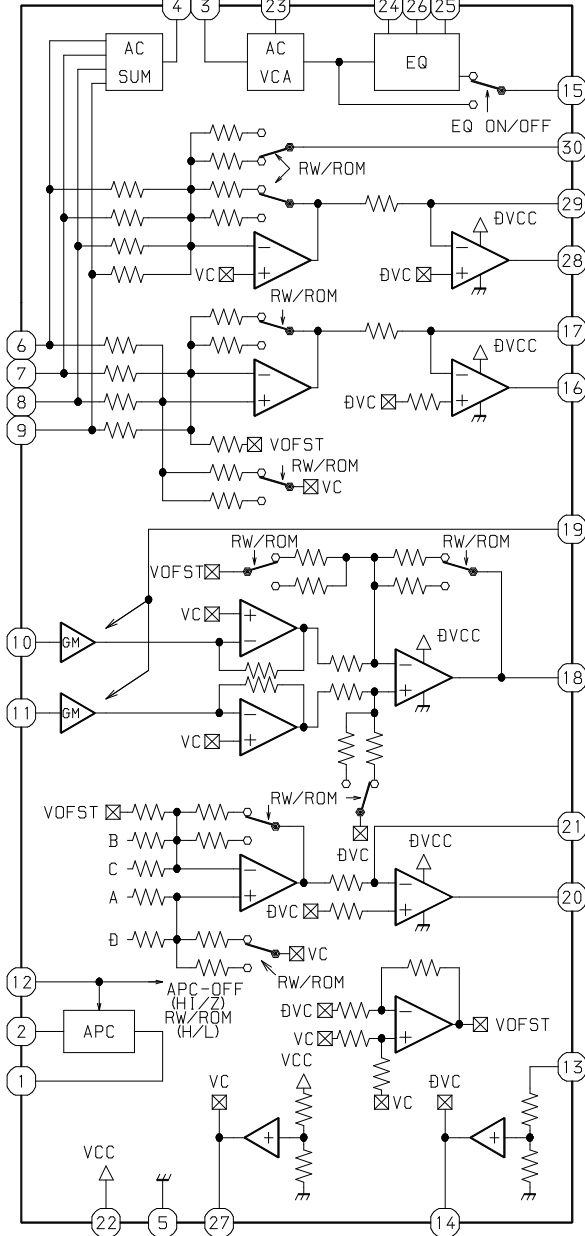
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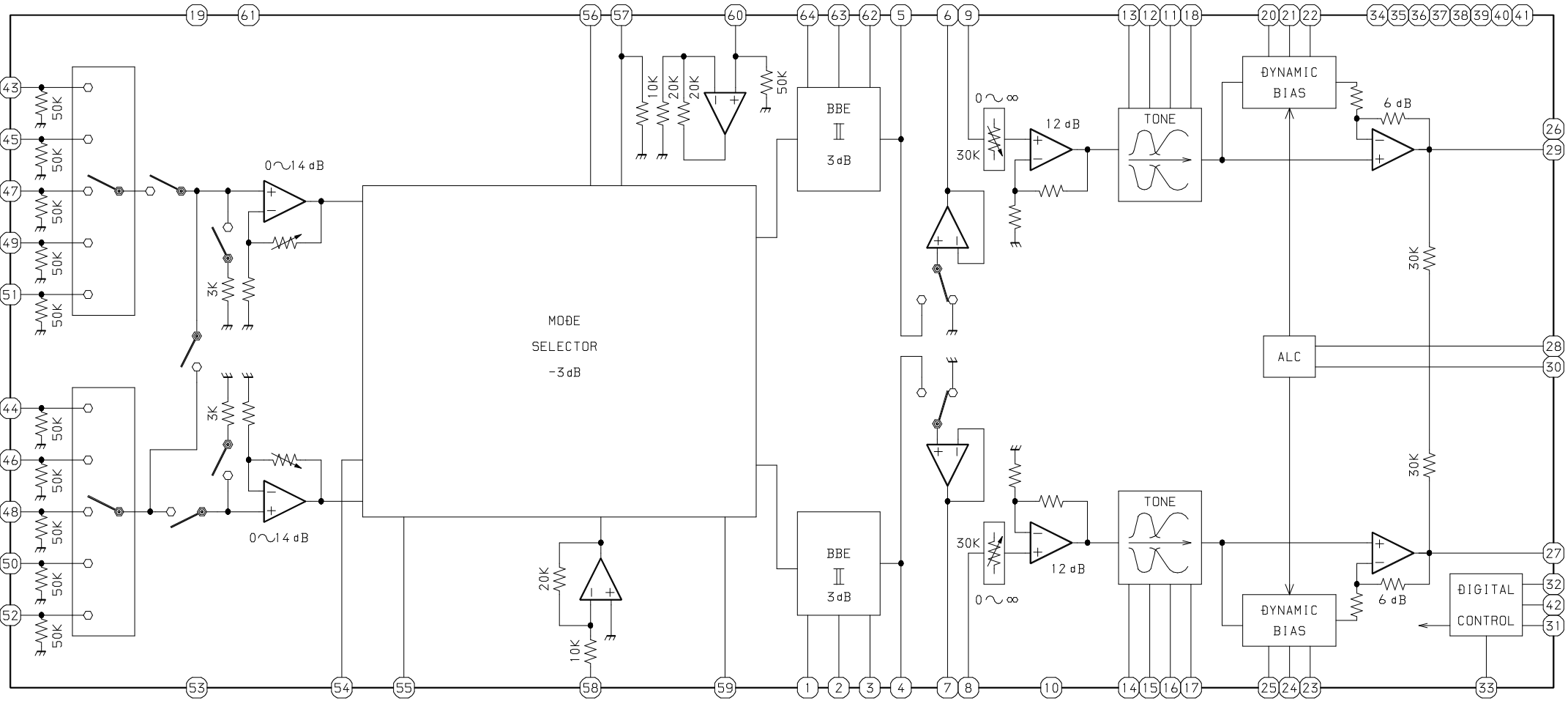
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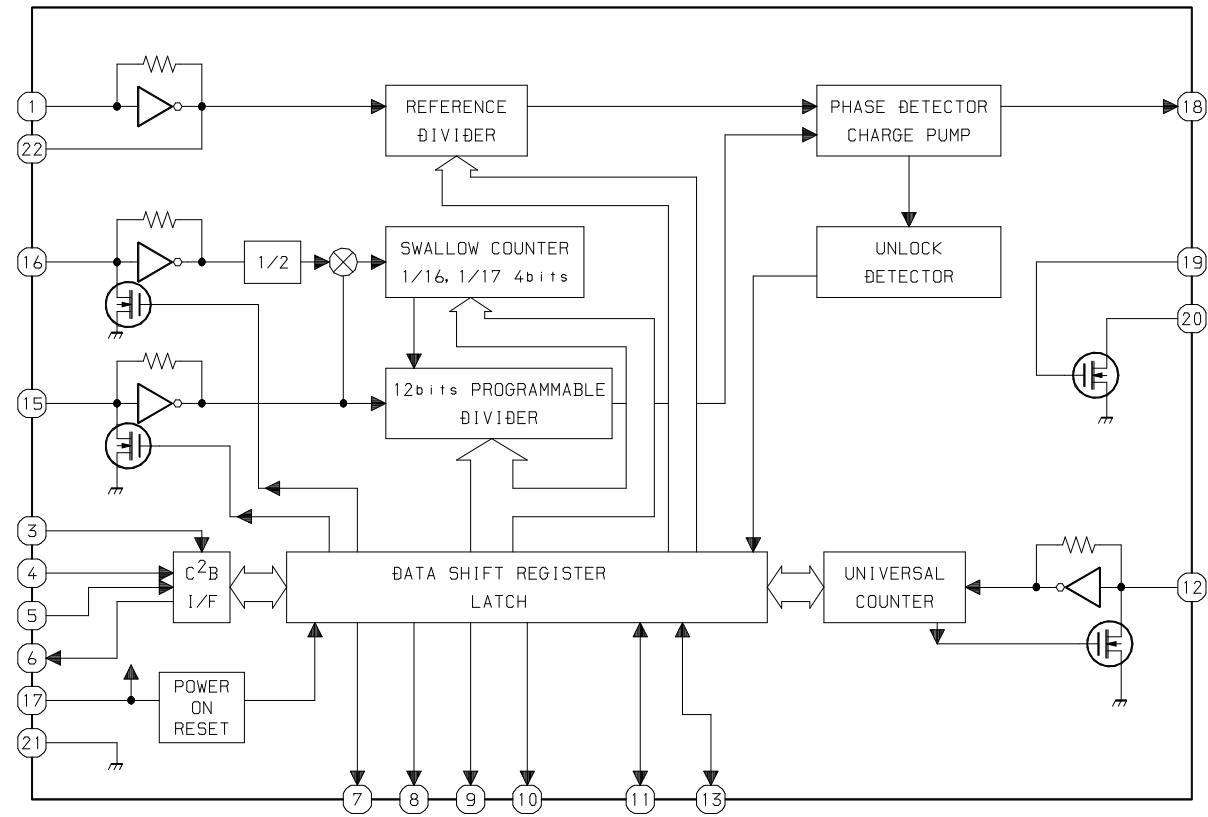
IC, CXA2581N



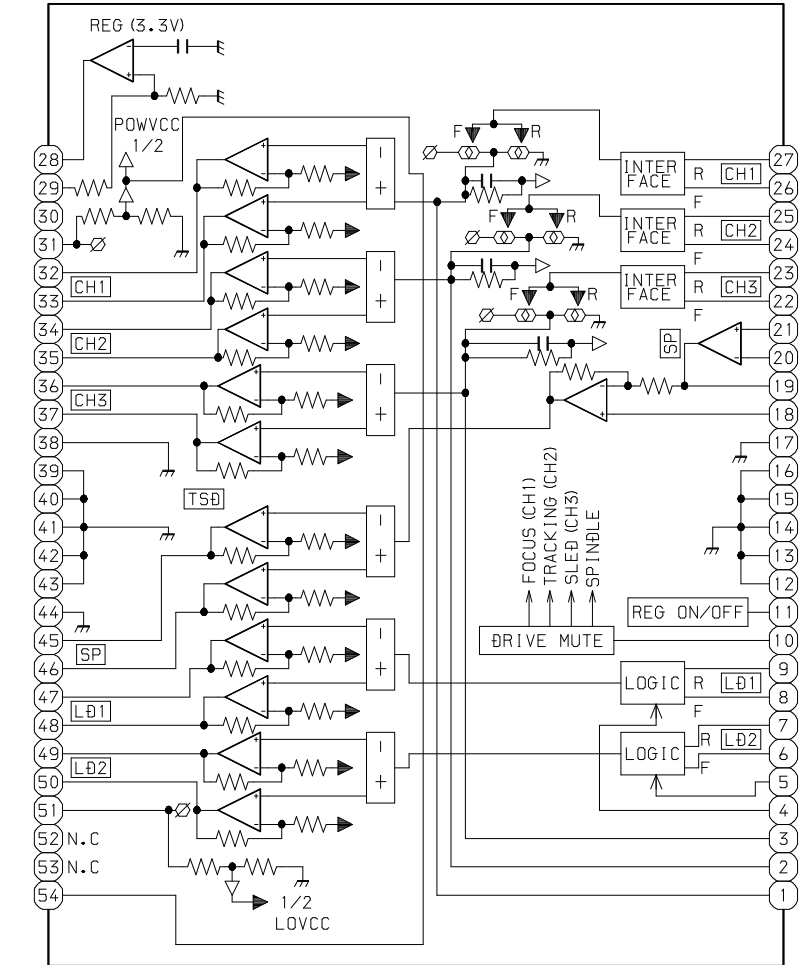
IC, BD3876AKS2



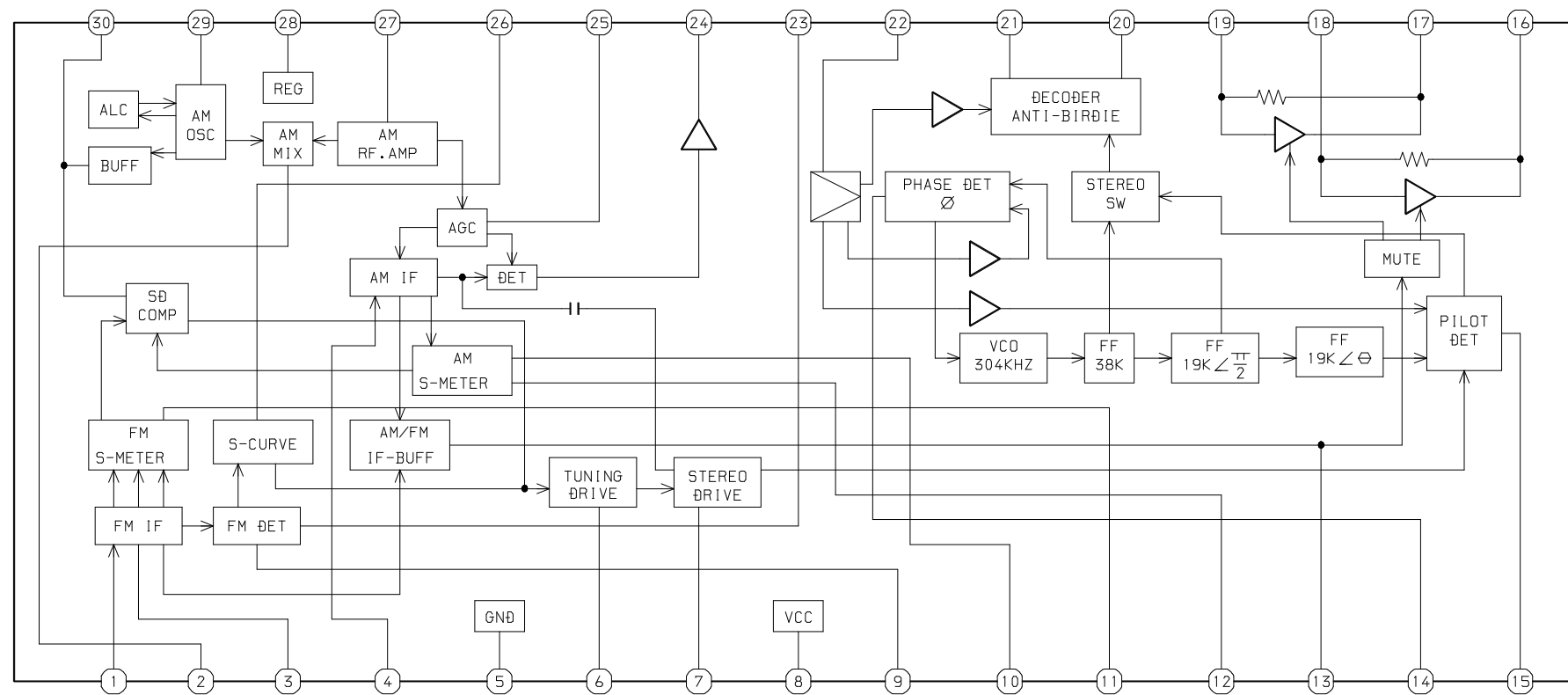
IC, LC72131B



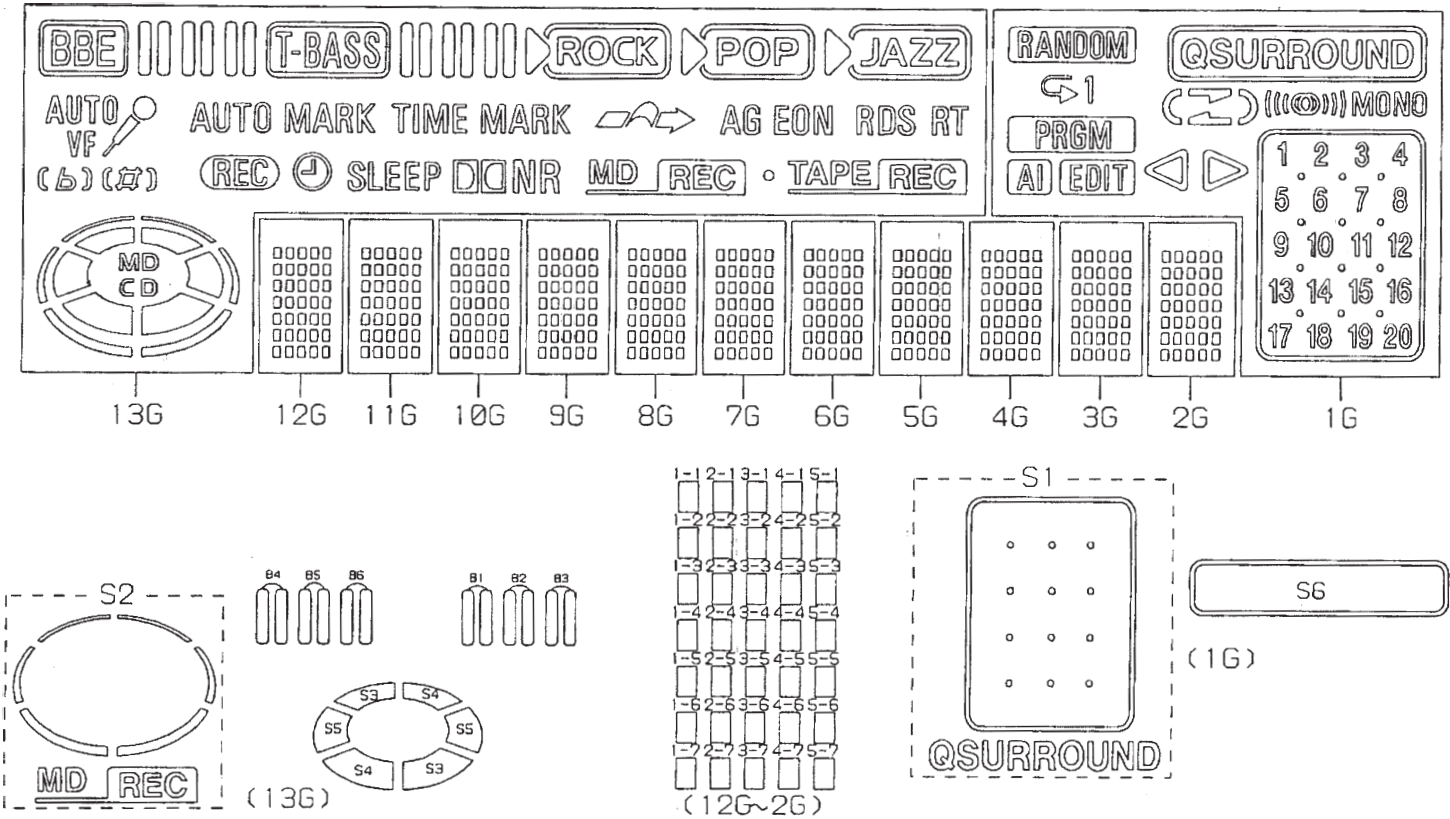
IC, BA5801FS



IC, LA1837NL



GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G~2G	1G
P1	TAPE REC	1-1	
P2		2-1	
P3	S2	3-1	MONO
P4	RT	4-1	
P5	RDS	5-1	)
P6	EON	1-2	
P7	AG	2-2	(
P8		3-2	S6
P9	ROCK POP JAZZ	4-2	EDIT
P10	(JAZZ)	5-2	AI
P11	(POP)	1-3	PRGM
P12	(ROCK)	2-3	1
P13	DKNR	3-3	
P14	SLEEP	4-3	RANDOM
P15		5-3	1
P16	REC	1-4	2
P17	TIME MARK	2-4	3
P18	AUTO MARK	3-4	4
P19	B3	4-4	5
P20	B2	5-4	6
P21	B1	1-5	7
P22	T-BASS	2-5	8
P23	B6	3-5	9
P24	B5	4-5	10
P25	B4	5-5	11
P26	BDE	1-6	12
P27	AUTO	2-6	13
P28	VF	3-6	14
P29	(A)	4-6	15
P30	(b)	5-6	16
P31	MD	1-7	17
P32	CD	2-7	18
P33	S3	3-7	19
P34	S4	4-7	20
P35	S5	5-7	S1

IC DESCRIPTION

IC, LC876572V-5S39 AFP-4

Pin No.	Pin Name	I/O	Description
1	I-STEREO/I-DRF	I	During TU FUNC, tuner stereo signal input / during CD FUNC, CD DSP IC DRF data input.
2	O-BEEP	O	Buzzer control.
3	I-RDSDATA/ O-CD-CE	I/O	During TU FUNC, RDS serial data input / during CD FUNC, CD DSP IC command in data output.
4	I-TUDO/I-SUBQ	I	During TU FUNC, tuner IF count serial data input / during CD FUNC, CD DSP IC subcode data input.
5	O-MSTB	O	Main IC control serial strobe output.
6	O-CLK	O	IC control serial clock output.
7	O-DATA	O	IC control serial data output.
8	O-FUNCCE	O	FUNC IC control chip enable output.
9	O-PLL-CE	O	Tuner PLL IC control chip enable output.
10	O-CLK-SIFT	O	Micon clock shift control output. L : shift up (initial H)
11	RST	I	Reset input.
12	I-HOLD (A/D)	I	Power failure overcharge detection input.
13	I-TU-SIG/ I-MS (A/D)	I	During TU FUNC, tuner signal level input / during TAPE FUNC, music sensor detection input.
14	VSS1	–	GND.
15	CF1	I	Oscillator input for system clock (9.43MHz).
16	CF2	O	Oscillator output for system clock (9.43MHz).
17	VDD1	–	Power supply.
18	I-ENC2 (A/D)	I	Waveform input for MD jog rotary encoder. (Not used)
19	I-KEY1 (A/D)	I	Tact key A/D level input.
20	I-KEY0 (A/D)	I	Tact key A/D level input.
21	I-DSW (A/D)	I	CD deck RECA, B, CST switch detection input.
22	I-CD-SW (A/D)	I	CD mecha switch detection input.
23	I-ENC1 (A/D)	I	Waveform input for jog rotary encoder.
24	I-ENC0 (A/D)	I	Waveform input for volume rotary encoder.
25	I-LEVEL (A/D)	I	Audio signal level detection input (for level bar, CD blank skip).
26	I-SC/I-MIC (A/D)	I	CD serial clock input / mic level detection input.
27	I-TMBASE	I	Reference signal input for clock.
28	I-RDSCCLK/ I-WRQ	I	During TU FUNC, RDS serial clock input / during CD FUNC, CD DSP IC WRQ input.
29	I-RMC	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid output.
43 ~ 45	P35 ~ P33	O	FL segment output.
46	VDD3	–	Power supply.
47 ~ 50	P32 ~ P29	O	FL segment output.
51	VP	–	Power supply for FL input.
52 ~ 62	P28 ~ P18	O	FL segment output.
63	MD/P17	I/O	No MD setting switch input (not used) / FL segment output.
64	ECO OFF/P16	I/O	ECO off setting switch input (not used) / FL segment output.
65	P-DEMO/P15	I/O	Demo with panel setting switch input (not used) / FL segment output.

Pin No.	Pin Name	I/O	Description																		
66	DEMO/P14	I/O	No demo (initial clock) setting switch input (not used) / FL segment output.																		
67	F2/P13	I/O	Feature select switch 1&2 input / FL segment output. <table><tr><td>F1</td><td>F2</td><td>DOLBY B-NR</td></tr><tr><td>X</td><td>X</td><td>O</td></tr><tr><td>O</td><td>X</td><td>O</td></tr><tr><td>X</td><td>O</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td></tr></table>	F1	F2	DOLBY B-NR	X	X	O	O	X	O	X	O	X	X	X	X			
F1	F2			DOLBY B-NR																	
X	X			O																	
O	X			O																	
X	O			X																	
X	X	X																			
68	F1/P12																				
69	B3/P11	I/O	Tuner band switch 3 input (not used) / FL segment output.																		
70	B2/P10	I/O	Tuner band switch 2 input (not used) / FL segment output.																		
71	B1/P9	I/O	Tuner band switch 1 input / FL segment output.																		
72	VDD4	–	Power supply.																		
73, 74	P8, P7	O	FL segment output.																		
75 ~ 78	$\overline{D} \sim \overline{A}/P6 \sim P3$	I/O	Panel face detection switch D ~ A input / FL segment output. <table><tr><td></td><td colspan="2">SURFACE</td></tr><tr><td></td><td>ACRYLIC</td><td>OPE KEY</td></tr><tr><td>SWA</td><td>OFF</td><td>ON</td></tr><tr><td>SWB</td><td>ON</td><td>ON</td></tr><tr><td>SWC</td><td>OFF</td><td>OFF</td></tr><tr><td>SWD</td><td>ON</td><td>ON</td></tr></table>		SURFACE			ACRYLIC	OPE KEY	SWA	OFF	ON	SWB	ON	ON	SWC	OFF	OFF	SWD	ON	ON
	SURFACE																				
	ACRYLIC	OPE KEY																			
SWA	OFF	ON																			
SWB	ON	ON																			
SWC	OFF	OFF																			
SWD	ON	ON																			
79	CAM/P2	I/O	Deck cam-operation detection switch input / FL segment output.																		
80	AUTO/P1	I/O	Deck reel-rotation detection signal input / FL segment output.																		
81	O-FUNC	O	FUNC IC expand port pull up VCC switch output.																		
82	O-KEYSCAN	O	Segment input timing ouput. H : input timing																		
83	O-MOTOR	O	Deck mecha motor control output.																		
84	O-FSTB	O	Shift register IC control serial strobe output.																		
85	O-CDTOPEN	O	CD tray control output. H : open																		
86	O-CDTCLOSE	O	CD tray control output. H : close																		
87	O-POWER	O	System power control output.																		
88	$\overline{O-MDRST}$	O	MD reset output. (Not used)																		
89	VSS2	–	GND.																		
90	VDD2	–	Power supply.																		
91	O-CD-DATA	O	CD DSP IC control data output.																		
92	O-CD-CLOCK	O	CD DSP IC control clock output.																		
93	O-MUTE	O	Audio signal line mute control output.																		
94	$\overline{O-SOL}$	O	Deck mecha plunger control output.																		
95	O-SIN	O	MD serial data output. (Not used)																		
96	I-SOUT	I	MD serial data input.																		
97	I-ACLK	I	MD unit latch clock input.																		
98	O-ARDY	O	MD unit latch data ready port control output. (Not used)																		

Pin No.	Pin Name	I/O	Description
99	O-SREQ	O	From MD unit serial data transfer request control output. (Not used)
100	I-MREQ	I	To MD unit serial data transfer request control input.

IC, UPD784216AYGC-107-8EU

Pin No.	Pin Name	I/O	Description
1	MD2	O	Digital out ON/OFF control H : ON.
2	X2FLG	O	Not used.
3	$\overline{\text{DRV MUT}}$	O	Servo driver mute.
4	CDDAMUT	O	CDDA-DAC mute.
5	LRMUT	–	Not used.
6	DOUTON	–	Not used.
7, 8	NC	–	Not connected.
9	VDD	–	Power supply (5V).
10, 11	X2, X1	I/O	Oscillator input / output for system clock (12.5MHz).
12	VSS	–	Ground.
13	XT2	–	Not used.
14	XT1	–	Connected to VSS.
15	$\overline{\text{RESET}}$	I	MICON reset.
16	$\overline{\text{DEC-INT}}$	I	Decoder interrupt.
17	HDRQ	I	Decoder data request.
18	NC	–	Not connected.
19	SCOR	I	SUB-Q SYNC (S0,S1).
20 ~ 22	NC	–	Not connected.
23	AVDD	–	Power supply (5V).
24	AVREF0	–	Connected to AVDD.
25	MP1/1.5	I	CLV at MP3 mode, L : 1.5, H : 1. (Connected to VSS)
26	FB0/FBA	I	L : F Bias Auto. H : F Bias OFF. (Connected to VDD)
27	ADJ3	–	Connected to AVSS.
28 ~ 32	NC	–	Connected to AVSS.
33	AVSS	–	Ground.
34	EQBST	O	RF AMP boost control. (Not used)
35	EQFRQ	O	RF AMP frequency control. (Not used)
36	AVREF1	–	Connected to AVDD.
37	DEBUG1 (SI2)	–	Connected to AVSS.
38	DEBUG2 (SO2)	–	Not used.
39	DEBUG3 (SCK2)	–	Not used.
40	I-SD	I	Host to unit data.
41	O-SD	O	Unit to host data.
42	I-CLK	I	Host I/O clock.
43	IO-BUSY	I/O	I/O / High impedance 3 state.
44	$\overline{\text{DECRST}}$	O	ROM decoder (IC, LC89513K) reset.
45	I2CD	O	IC, MAS3507D-G10 I2C data.
46	A-MUTE	O	Mute on.
47	I2CC	O	IC, MAS3507D-G10 clock.
48 ~ 55	A0 ~ A7	O	SRAM / decode address.
56 ~ 63	D0 ~ D7	I/O	SRAM / decode data.
64 ~ 71	A8 ~ A15	O	SRAM / decode address.

Pin No.	Pin Name	I/O	Description
72	VSS	–	Ground.
73	A16	O	SRAM / decode address.
74	$\overline{\text{SRAM CS}}$	O	SRAM chip select.
75	$\overline{\text{DEC CS}}$	O	Decode chip select.
76	NC	–	Not connected.
77	$\overline{\text{RD}}$	O	SRAM / decode read.
78	$\overline{\text{RW}}$	O	SRAM / decode write.
79	$\overline{\text{MP3RST}}$	O	IC, MAS3507D-G10 reset.
80	ASTB	–	Not used.
81	VDD	–	Power supply (5V).
82	CDRW	O	CD-RW L = normal; H = CD-RW. (Not used)
83	XCLK	O	IC, CXD2585Q clock.
84	XLAT	O	IC, CXD2585Q latch.
85	XDATA	O	IC, CXD2585Q data.
86	CDFUNC	O	NORM, RW, LDOFF control.
87	SCLK	O	IC, CXD2585Q serial clock.
88	SENS	I	IC, CXD2585Q sense.
89	SQCK	O	SUB-Q clock.
90	SUBQ	I	SUB-Q data.
91	$\overline{\text{XRST}}$	O	IC, CXD2585Q reseat.
92	FOK	I	IC, CXD2585Q FOK.
93	GFS	I	IC, CXD2585Q GFS.
94	VPP	–	Connected to VSS through a resistor.
95 ~ 100	NC	–	Not connected.

IC, DAC3550A-C2

Pin No.	Pin Name	I/O	Description
1	AGNDC	I/O	Analog reference voltage.
2	AVSS1	I	VSS 1 for audio back-end.
3	AVSS0	I	VSS 0 for audio output amplifiers.
4	NC	–	Not connected.
5	OUTL	O	Audio output: headphone left or speaker +. (Not used)
6	NC	–	Not connected.
7	OUTR	O	Audio output: headphone right or speaker -. (Not used)
8	NC	–	Not connected.
9	AVDD0	I	VDD 0 for audio output amplifiers.
10	AVDD1	I	VDD 1 for audio back-end.
11	NC	–	Not connected.
12	XTI	I	Quartz oscillator pin 1.
13	XTO	I/O	Quartz oscillator pin 2.
14	CLKOUT	O	Clock output.
15	SCL	I/O	I ² C clock.
16	SDA	I/O	I ² C data.
17	VSS	–	Digital VSS.
18	VDD	–	Digital VDD.
19	MCS1	I	I ² C chip Select 1.
20	MCS2	I	I ² C chip Select 2.
21	DEECTRL	I	Deemphasis on/off control. (Connected to VSS)
22	NC	–	Not connected.
23	CLI	–	I ² S bit clock.
24	DAI	I	I ² S data.
25	WSI	I	I ² S frame identification.
26	PORQ	I	Power-on reset, active-low.
27	TESTEN	I	Test enable. (Connected to VSS)
28	NC	–	Not connected.
29	AUX2L	I	AUX2 left input for external analog signals (e.g. tape). (Not used)
30	AUX2R	I	AUX2 right input for external analog signals (e.g. tape). (Not used)
31	AUX1L	I	AUX1 left input for external analog signals (e.g. FM).
32	AUX1R	I	AUX1 right input for external analog signals (e.g. FM).
33	NC	–	Not connected.
34	DEEML	O	Deemphasis network left. (Not used)
35	DEEMR	O	Deemphasis network right. (Not used)
36	NC	–	Not connected.
37	FOUTL	O	Output to left external filter.
38	FOPL	I/O	Filter OP-AMP inverting input, left.
39	FINL	I/O	Input for FOUTL or filter OP-AMP output (line out).
40	NC	–	Not connected.
41	FOUTR	O	Output to right external filter.
42	FOPR	I/O	Filter OP-AMP inverting input, right.

Pin No.	Pin Name	I/O	Description
43	FINR	I/O	Input for FOUTR or filter OP-AMP output (line out).
44	VREF	I	Analog reference ground.

IC, LC89513K

Pin No.	Pin Name	I/O	Description
1	VSS	–	Ground.
2 ~ 8	RA0 ~ RA6	O	Address signal output to data buffer RAM pin.
9	VSS	–	Ground.
10 ~ 16	RA7 ~ RA13	O	Address signal output to data buffer RAM pin.
17	VSS	–	Ground.
18	RA13B	O	Address signal output to data buffer RAM pin.
19	$\overline{\text{RCS}}$	O	Chip select to RAM pin.
20	$\overline{\text{RWE}}$	O	Data write signal to RAM pin.
21	$\overline{\text{ROE}}$	O	Data read signal from RAM pin.
22	$\overline{\text{RESET}}$	I	Reset pin reset at level low.
23	XTALCK	I	Crystal oscillating circuit input pin.
24	VDD	–	Power supply.
25	C2PO	I	C2 pointer input pin.
26	BCK	I	Serial data input clock pin.
27	SDATA	I	Serial data input pin.
28	LRCK	I	44.1kHz strobe signal input pin.
29	RS	I	Register select signal pin.
30	$\overline{\text{RD}}$	I	CPU data read signal input pin.
31	$\overline{\text{WR}}$	I	CPU data write signal input pin.
32	$\overline{\text{CS}}$	I	Chip select signal input from CPU pin.
33	VSS	–	Ground.
34 ~ 41	D0 ~ D7	I/O	CPU data signal pin with built in pull-up resistor.
42	PSRAM	I	Pseudo-SRAM select pin.
43	$\overline{\text{INT}}$	O	Interrupt request signal to CPU output pin.
44	DRQ	O	DRQ signal output pin.
45 ~ 48	HD0 ~ HD3	O	Data output to CPU pin.
49	VSS	–	Ground.
50 ~ 53	HD4 ~ HD7	O	Data output to CPU pin.
54	$\overline{\text{HRD}}$	I	Data read signal input pin.
55	$\overline{\text{DTEN}}$	O	Data enable signal output pin. (Not used)
56	VDD	–	Power supply.
57 ~ 64	IO0 ~ IO7	I/O	Data buffer RAM data signal pin with built in pull-up resistor.

IC, CXD2585Q

Pin No.	Pin Name	I/O	Description
1	VDD	–	Digital power supply.
2	XRST	I	System reset. Reset at "L".
3	MUTE	I	Muting input. Mute at "H". (Connected to GND)
4	DATA	I	Serial data input from CPU.
5	XLAT	I	Latch input from CPU. Latch serial data at falling.
6	CLOK	I	Serial data transfer clock input from CPU.
7	SENS	O	SENS output. Output to CPU.
8	SCLK	I	SENS serial data read clock input.
9	ATSK	I/O	Input/output for antishock. (Connected to GND)
10	WFCK	O	WFCK output. (Not used)
11	XUGF	O	XUGF output. MNT0, RFCK output by switching command. (Not used)
12	XPCK	O	XPCK output. MNT1 output by switching command. (Not used)
13	XROF	O	GFS output. MNT2, XROF output by switching command.
14	C2PO	O	C2PO output. MNT3, GTOP output by switching command.
15	SCOR	O	"H" is output when either subcode sync S0 or S1 is detected.
16	C4M	O	4.2336 MHz output . At CAV-W mode or when variable pitch, 1/4 division of V16M is output. (Not used)
17	WDCK	O	Word clock output. F=2Fs. GRSCOR is output by switching command. (Not used)
18	GND	–	Digital GND.
19	COUT	I/O	Input/output of track number count signal. (Not used)
20	MIRR	I/O	Input/output of mirror signal. (Not used)
21	DFCT	I/O	Input/output of defect signal. (Not used)
22	FOK	I/O	Input/output of focus OK signal.
23	PWMI	I	External control of spindle motor input. (Connected to GND)
24	LOCK	I/O	GFS is sampled at 460 Hz . "H" is output when GFS is "H". "L" is output when GFS is "L" eight times consecutively. Input when LKIN="1". (Not used)
25	MDP	O	Servo control of spindle motor output.
26	SWIL	I	Innermost perimeter of disk detecting signal input.
27	FSTO	O	2/3division of XTAI pin output. (Not used)
28	VDD	–	Digital power supply.
29	SFDR	O	Sled drive output.
30	SRDR	O	Sled drive output.
31	TFDR	O	Tracking drive output.
32	TRDR	O	Tracking drive output.
33	FFDR	O	Focus drive output.
34	FRDR	O	Focus drive output.
35	GND	–	Digital GND.
36	TEST	I	Testing pin. Normally GND.
37	TEST1	I	Testing pin. Normally GND.
38	VC	I	Middle point voltage input.
39	FE	I	Focus error signal input.
40	SE	I	Sled error signal input.

Pin No.	Pin Name	I/O	Description
41	TE	I	Tracking error signal input.
42	CE	I	Middle point servo analog input.
43	RFDC	I	RF signal input.
44	ADIO	O	Testing pin. (Not used)
45	AGND	–	Analog GND.
46	IGEN	I	Constant current input for OP amplifier.
47	AVDD	–	Analog power supply.
48	ASYO	O	EFM full swing output. "L"=VSS, "H"=VDD.
49	ASYI	I	Asymmetry comparator voltage input.
50	RFAC	I	EFM signal input.
51	AGND	–	Analog GND.
52	CLTV	I	VCO1 control voltage for multiplication input.
53	FILO	O	Filter output for master PLL (slave=digital PLL).
54	FILI	I	Filter input for master PLL.
55	PCO	O	Charge pump output for master PLL.
56	AVDD	–	Analog power supply.
57	BIAS	I	Asymmetry circuit constant current input.
58	VCTL	I	VCO2 control voltage input for wideband EFM PLL.
59	V16M	I/O	VCP2 oscillation output for wideband EFM PLL. Switching by command inputs clock for wideband EFM PLL. (Not used)
60	VPCO	O	Charge pump output for wideband EFM PLL.
61	VDD	–	Digital power supply.
62	ASYE	I	Asymmetry circuit ON/OFF. "L"=OFF, "H"=ON (Connected to VDD)
63	MD2	I	Digital-Out ON/OFF control. "L"=PFF, "H"=ON
64	DOUT	O	Digital-Out output pin.
65	LRCK	O	D/A interface. LR clock output.
66	PCMD	O	D/A interface. Serial data output. (2's COMP, MSB first)
67	BCK	O	D/A interface. Bit clock output.
68	EMPH	O	"H" is output when emphasis is present on a playback disc. "L" is output when emphasis is absent.
69	XTSEL	I	Crystal selection input pin. "L" when X'tal is 16.9344MHz, and "H" when 33.8688MHz. (Connected to GND)
70	GND	–	Digital GND.
71	XTAI	I	Crystal oscillating circuit input pin. This is used for inputting master clock from the exterior.
72	XTAO	O	Crystal oscillating circuit output pin. (Not used)
73	SOUT	O	Serial data output in servo block. (Not used)
74	SOCK	O	Serial data read clock output in servo block. (Not used)
75	SOLT	O	Serial data latch output in servo block. (Not used)
76	SQSO	O	Sub Q 80 bit and PCM peak, level data output . CD TEXT data output.
77	SQCK	I	Clock for SQSO read-out input.
78	SCSY	I	Input for re-synchronizing GRSCOR. (Connected to GND)
79	SBSO	O	Serial output of Sub P-W. (Not used)
80	EXCK	I	Clock for SBSO read-out input. (Connected to VDD)

IC, MAS3507D-G10

Pin No.	Pin Name	I/O	Description
1	TE	I	Test Enable. (Connected to VSS)
2	POR	I	Reset, active low.
3	I2CC	I/O	I ² C clock line.
4	I2CD	I/O	I ² C data line.
5	VDD	–	Positive supply for digital parts.
6	VSS	–	Ground supply for digital parts.
7	DCEN	I	Enable DC/DC converter.
8	EOD	O	PIO end of DMA, active low.
9	RTR	O	PIO ready to read, active low.
10	RTW	O	PIO ready to write, active low. (Not used)
11	DCSG	–	DC converter transistor ground. (Connected to VSS)
12	DCSO	O	DC converter transistor open drain. (Connected to VSS)
13	VSSENS	I	DC converter voltage sense. (Connected to VDD)
14	PR	I	PIO-DMA request or read/write.
15	PCS	I	PIO chip select, active low. (Connected to VSS)
16	PI19	I/O	PIO Data [19] 1. Demand pin in SDI mode. 2. data bit [7], MSB (PIO-DMA input mode)
17	PI18	I/O	PIO Data [18] 1. MPEG header bit 11-MPEG ID (SDI mode). 2. data bit [6] (PIO-DMA input mode).
18	PI17	I/O	PIO Data [17] 1. MPEG header bit 12-MPEG ID (SDI mode). 2. data bit [5] (PIO-DMA input mode).
19	PI16	I/O	PIO Data [16] 1. SIC*, alternative input for SIC (SDI mode). 2. data bit [4] (PIO-DMA input mode).
20	PI15	I/O	PIO Data [15] 1. SII*, alternative input for SII (SDI mode). 2. data bit [3] (PIO-DMA input mode).
21	PI14	I/O	PIO Data [14] 1. SID*, alternative input for SID (SDI mode) 2. data bit [2] (PIO-DMA input mode).
22	PI13	I/O	PIO Data [13] 1. MPEG header bit 13-Layer ID (SDI ,mode) 2. data bit [1] (PIO-DMA input mode).
23	PI12	I/O	PIO Data [12] 1. MPEG header bit 14-Layer ID (SDI ,mode) 2. data bit [0] (PIO-DMA input mode).
24	SOD	O	Serial output data.
25	SOI	O	Serial output frame identification.
26	SOC	O	Serial output clock.

Pin No.	Pin Name	I/O	Description
27	PI8	I	Start-up : clock output scaler on / off.
		O	Operation : MPEG CRC error.
28	XVDD	–	Positive supply of output buffers.
29	XVSS	–	Ground of output buffers.
30	SID	I	Serial input data. (Not used)
31	SII	I	Serial input frame identification. (Connected to VDD)
32	SIC	I	Serial input clock. (Not used)
33	PI4	I	Start-up : select SDI / PIO-DMA input mode.
		O	Operation : MPEG-frame Sync.
34	PI3	I	Start-up : enable layer 3 / disable layer 3 decoding.
		O	Operation : MPEG header bit 20 (sampling frequency).
35	PI2	I	Start-up : enable layer 2 / disable layer 2 decoding.
		O	Operation : MPEG header bit 21 (sampling frequency).
36	PI1	I	Start-up : SDO: select 32-bit mode / 16-bit I ² S mode.
		O	Operation : MPEG header bit 30 (emphasis).
37	PIO	I	Start-up : select multimedia mode / broadcast mode.
		O	Operation : MPEG header bit 31 (emphasis).
38	CLKO	O	Clock output for the D/A converter. (Not used)
39	PUP	O	Power up, i.e. status of voltage supervision. (Not used)
40	WSEN	I	Enable DSP and start DC/DC converter.
41	WRDY	O	If WSEN = 0: valid clock input at CLKI If WSEN = 1: clock synthesizer PLL locked. (Not used)
42	AVDD	–	Supply for analog circuits.
43	CLKI	I	Clock input.
44	AVSS	–	Ground supply for analog circuits.

ADJUSTMENT (TUNER / DECK / FRONT)

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to MW 1602kHz and check that the test point is 2052kHz $\pm$ 45Hz.
2. MW VT Check
Settings : • Test point : TP1 (VT)
Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.
3. MW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L981 (1/3)
Method : Set to MW 999kHz and adjust L981 (1/3) so that the test point becomes maximum.
4. LW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V $\pm$ 0.05V.
Then set to LW 290kHz and check that the test point is less than 8.0V.
5. LW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L941 144kHz
TC942 290kHz
Method : Set up TC942 to center before adjustment.
The level at 144kHz is adjusted to maximum by L941. Then the level at 290kHz is adjusted to maximum by TC942.
6. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L772 450kHz
7. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5 MHz and check that the test point is more than 0.5V.
8. FM Tracking Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 13dB μ V.
9. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3,TP4 (DC balance)
TP8 (Lch), TP9 (Rch) (Distortion)
• Adjustment location : L771
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V $\pm$ 0.04V.
Next, check that the distortion is less than 1.3%.

< DECK SECTION >

1. Tape Speed Adjustment

Settings : • Test tape : TTA-100

- Test point : TP8 (Lch), TP9 (Rch)
- Adjustment location : SFR1

Method : Play back (FWD) the test tape and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$ and $\pm 45\text{Hz}$ (REV) with respect to forward speed.

2. Head Azimuth Adjustment

Settings : • Test tape : TTA-300

- Test point : TP8 (Lch), TP9 (Rch)
- Adjustment location : Head azimuth adjustment screw

Method : Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV play mode.

3. PB Frequency Response Check

Settings : • Test tape : TTA-300

- Test point : TP8 (Lch), TP9 (Rch)

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is $0\text{dB} \pm 3\text{dB}$.

4. PB Sensitivity Adjustment

Settings : • Test tape : TTA-200

- Test point : TP8 (Lch), TP9 (Rch)
- Adjustment location : SFR303 (Lch)
SFR304 (Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test points becomes $245\text{mV} \pm 10\text{mV}$.

5. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602

- Test point : TP8 (Lch), TP9 (Rch)
- Input signal : 1kHz / 10kHz (LINE IN)
- Adjustment location : SFR351 (Lch)
SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

6. REC/PB Sensitivity Adjustment

Settings : • Test tape : TTA-602

- Test point : TP8 (Lch), TP9 (Rch)
- Input signal : 1kHz (LINE IN)
- Adjustment location : SFR305 (Lch)
SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (170mV). Record and play back the 1kHz signals and adjust SFRs so that the output becomes $0\text{dB} \pm 0.5\text{dB}$.

< FRONT SECTION >

7. μ -CON OSC Adjustment

Settings : • Test point : TP1 (K-SCAN) and GND

- Adjustment location : L201

Method : Insert AC plug with pressing of TUNER and DISPLAY key. Adjust L201 so that the frequency across the test point is $209.80\text{Hz} \pm 0.21\text{Hz}$.

CD TEST MODE

1. How to Activate CD Test Mode

While pressing the CD function button, insert the AC plug to the outlet. The message "CD TEST" appears on the display.

2. How to Cancel CD Test Mode

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

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

3. CD Test Mode functions

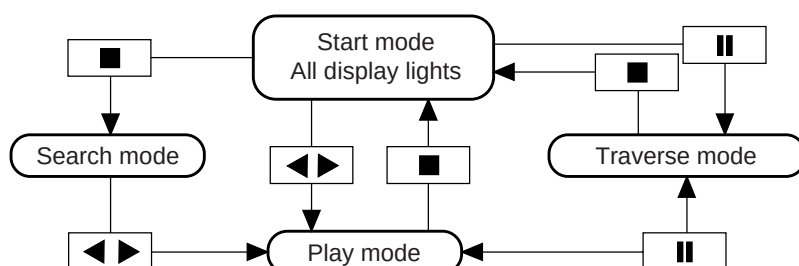
No	Mode	Operation	FL display	Operation	Checking item
1	Start mode	Activation	All lit	• Test mode is activated • CD block is power ON	• FL item • Microprocessor
2	Search mode	■	Normal time display (READING)	• FL lights • Continuous focus search*1	• APC circuit • Laser current • Focus search waveform •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

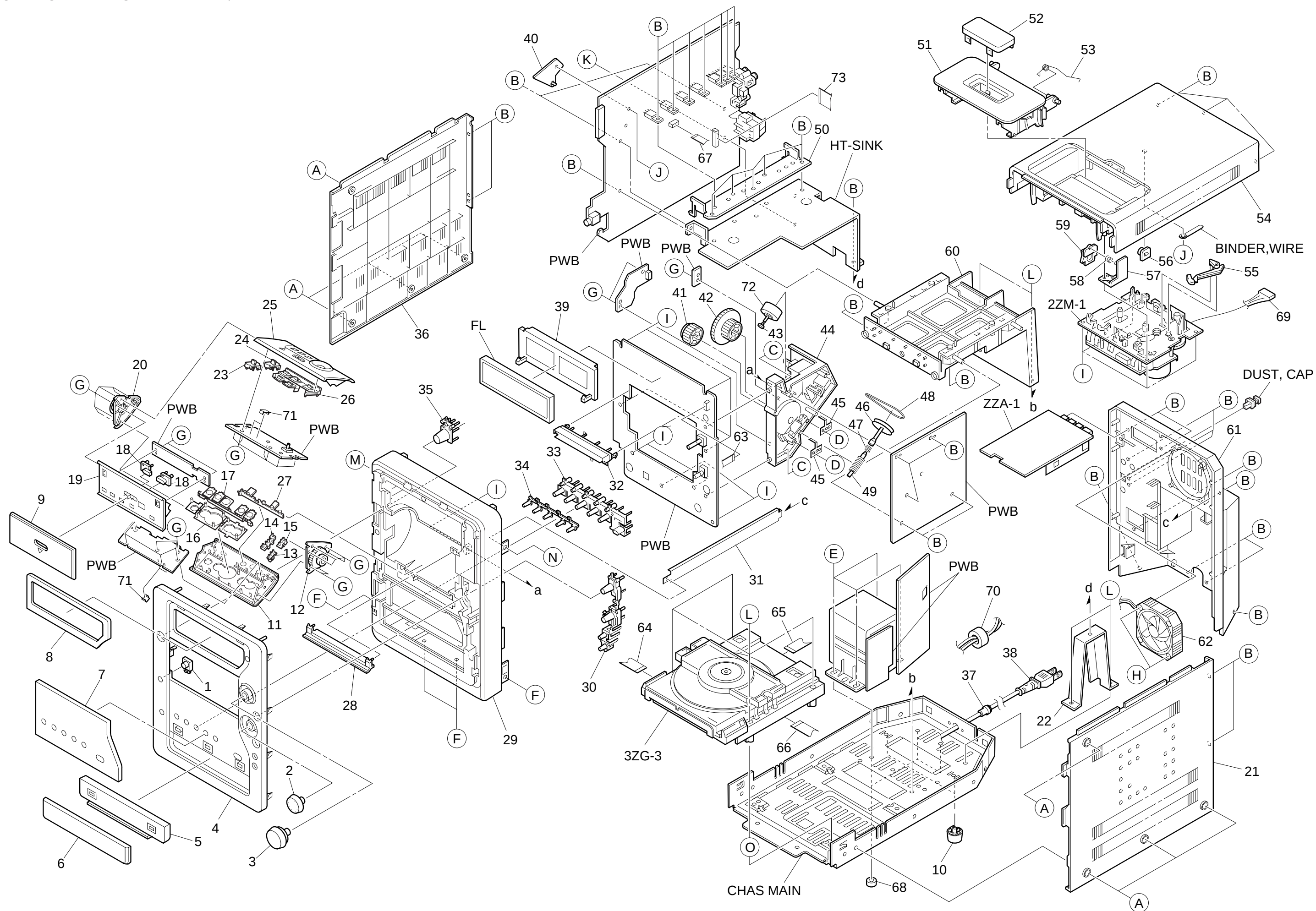
* Note 1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations cannot be performed correctly. In such a case, turn off the main power. After cooling down, restart the unit.

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

4. Overview of Operation

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





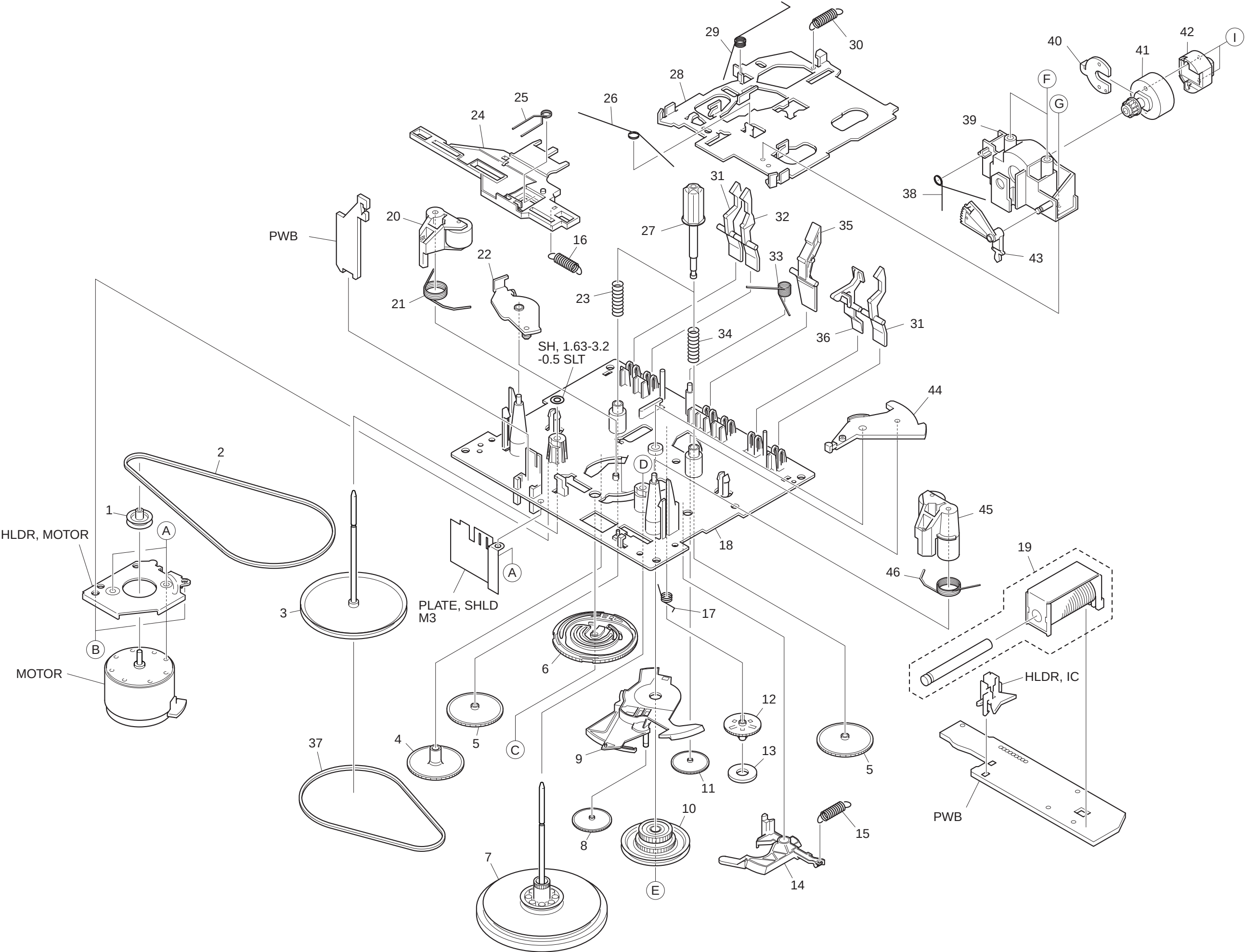
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJ4-042-010		WINDOW, SENSOR
2	8A-CJ4-017-010		KNOB, RTRY JOG
3	8A-FP4-010-010		KNOB, RTRY MAIN
4	8A-FP4-002-010		PANEL, FR
5	8A-CJ4-015-110		PANEL, TRAY
6	8A-FP4-018-010		WINDOW, TRAY
7	8A-FP4-017-010		WINDOW, FUN
8	8A-CJ4-012-010		WINDOW, DISPLAY
9	8A-CJ4-039-010		WINDOW, OPE
10	8A-CJ4-080-010		FOOT ASSY, H10
11	8A-FP4-008-010		PANEL, OPE 2
12	8A-CJ4-213-010		HLDR, CONTROL
13	8A-CJ4-048-010		KEY, OPEN 2C
14	8A-CJ4-028-010		KEY, OPEN 2
15	8A-CJ4-047-010		KEY, OPEN 2B
16	8A-CJ4-026-110		RING, PLAY
17	8A-CJ4-040-010		KEY ASSY, PLAY
18	8A-CJ4-027-010		KEY, OPEN 1
19	8A-FP4-007-010		PANEL, OPE 1
20	8A-CJ4-214-010		HLDR, CONTROL 2
21	8A-FP4-005-010		PANEL, SIDE R
22	8A-CJ4-210-110		HLDR, HT-SINK
23	8A-CJ4-031-010		KEY, OPEN 3
24	8A-CJ4-030-010		KEY, OPEN 3B
25	8A-FP4-009-010		PANEL, OPE 3
26	8A-CJ4-043-010		KEY, MD EDIT
27	8A-CL4-007-010		KEY, REC(L4)
28	8A-CJ4-046-010		REFLECTOR, CONTROL
29	8A-FP4-001-010		CABI, FR
30	8A-CJ4-020-010		KEY, JOG
31	8A-CJ4-239-010		HLDR, CABI JOINT
32	8A-CJ4-204-010		GUIDE, LED CONTROL
33	8A-CL4-006-010		KEY, FUN(L4)
34	8A-CJ4-029-010		REFLECTOR, FUN
35	8A-CJ4-041-010		KEY ASSY, POWER
36	8A-FP4-004-010		PANEL, SIDE L
37	87-085-185-010		BUSHING, AC CORD (E)
38	87-A80-143-010		AC CORD ASSY, E BLK
39	8A-CJ4-201-010		GUIDE, FL
40	8A-CJ4-219-010		HLDR, PWB(MOLD)
41	8A-CJ4-203-110		GEAR, OPE 1
42	8A-CJ4-205-110		GEAR, WORM-WHEEL
43	81-ZG1-212-010		PULLY, LOAD MO
44	8A-CJ4-206-210		HLDR, GEAR
45	86-ZG1-232-010		SPR-P, WORM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
46	86-ZG1-221-010		PULLEY, TT
47	86-ZG1-231-010		SPR-C, WORM
48	86-ZG1-225-010		BELT, SQ1.2-32.9
49	84-ZG1-256-010		GEAR, WORM N2
50	8A-CJ4-202-010		HLDR, TR EX
51	8A-FP4-006-010		BOX, CASS
52	8A-CJ4-008-010		WINDOW, CASS
53	82-NF5-218-010		SPR-T, EJECT 1 (SIN)
54	8A-FP4-003-010		PANEL, TOP
55	82-ZM1-263-110		LVR, EJECT L
56	87-NF8-220-010		DMPR, 150
57	87-NF4-216-010		HLDR, LOCK 1
58	86-NF9-224-010		SPR-C, LOCK
59	82-NF5-229-010		PLATE, LOCK
60	8Z-CL4-203-010		CHAS, MD
61	8A-CL4-009-110		CABI, REAR(L4) EZ
62	87-A90-796-010		FAN, F614R-12MC-15-300MM
63	8A-CL4-605-010		FF-CABLE, 10P 1.0
64	88-905-251-110		FF-CABLE 5P 1.25
65	8A-FP4-603-010		FF-CABLE, 16P 1.0 250MM
66	88-906-101-110		FF-CABLE 6P-1.25
67	88-906-201-110		FF-CABLE, 6P 1.25
68	8Z-CE3-206-010		CUSH, PL 9.2-4.2-5
69	8A-CJ4-647-110		CONN ASSY, 7P V RPH SHILD
70	87-003-317-010		F-BEAD, F0H2515-LG7
71	8A-CJ4-217-010		PLATE, OPE 2B
72	87-A90-036-010		MOT ASSY, RF-300CA-11
73	8Z-CL4-658-010		F-CABLE, 10P 2.5 300MM
A	87-067-761-010		TAPPING SCREW, BVT2+3-10
B	87-067-703-010		TAPPING SCREW, BVT2+3-10
C	87-067-581-010		TAPPING SCREW, BVT2+3-15
D	87-067-584-010		TAPPING SCREW, BVT2+3-6
E	87-067-585-010		TAPPING SCREW, BVTT+4-6
F	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
G	87-067-868-010		V+1.7-4 HL BLK
H	87-067-822-010		BVT2+3-20 W/O SLOT
I	87-078-060-010		BVIT3PB+3-10
J	87-067-579-010		TAPPING SCREW, BVT2+3-8
K	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
L	87-B10-314-010		BVIT3B+3-6 R W/O
M	87-721-096-410		QT2+3-10 GLD
N	87-721-095-410		QT2+3-8GLD W/O SLOT
O	86-NF8-223-010		W-P, 4.2-6.8-0.25 W/A

COLOR NAME TABLE

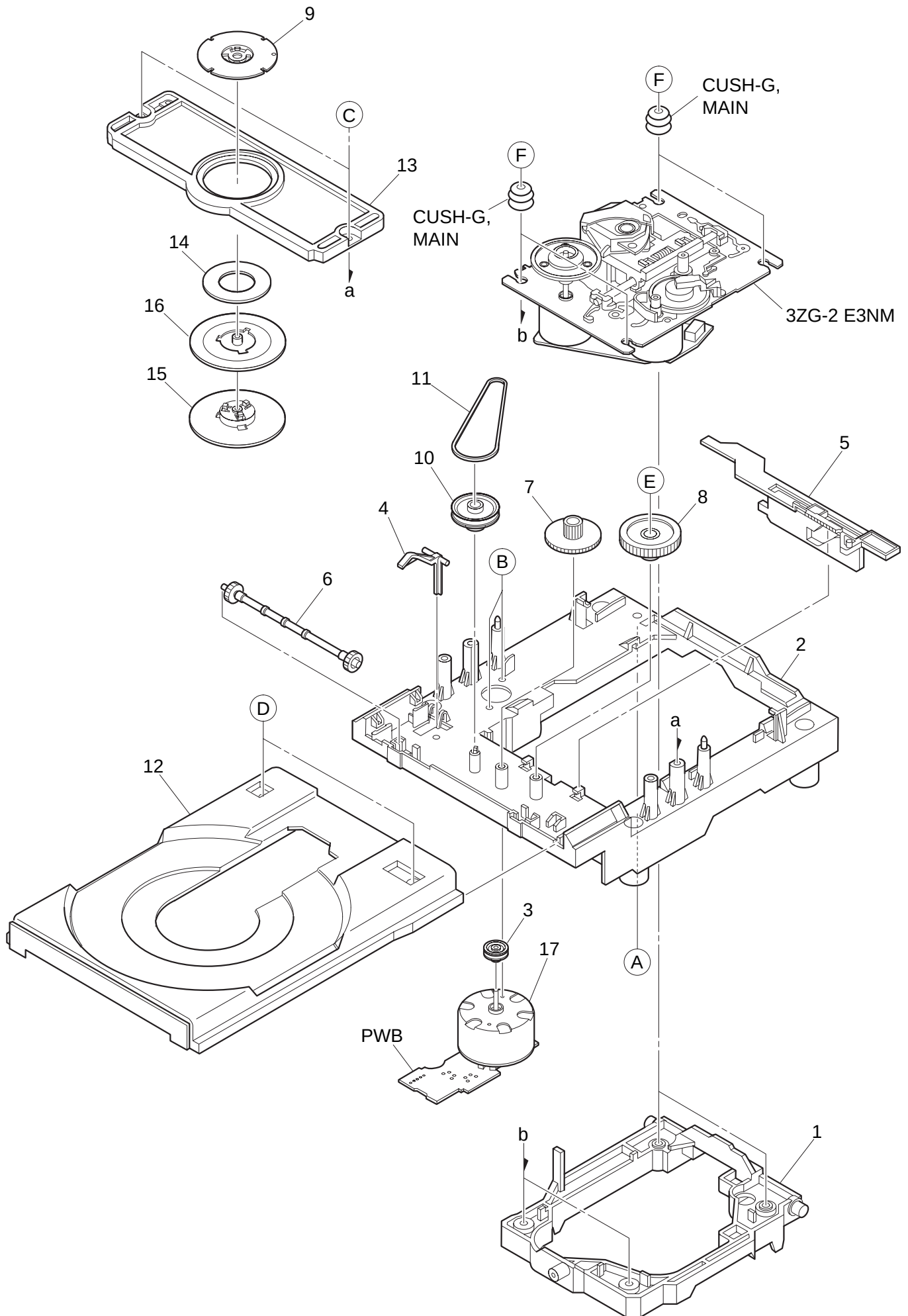
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent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



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-247-210		PULLEY, MOTOR	31	82-ZM1-240-110		LVR, REC(*)
2	82-ZM1-354-010		BELT, SBU MAIN2 EPDM	32	82-ZM1-241-310		LVR, MC
3	82-ZM1-234-310		FLY-WHL ASSY, L	33	82-ZM1-257-010		SPR-T, CAS
4	82-ZM1-226-010		GEAR, REW	34	82-ZM1-285-410		SPR-C, BT L
5	82-ZM1-216-510		GEAR, REEL	35	82-ZM1-242-010		LVR, CAS
6	82-ZM1-221-310		GEAR, CAM(*)	36	82-ZM1-243-010		LVR, STOP
7	82-ZM1-237-610		FLY-WHL ASSY, R	37	82-ZM1-338-110		BELT, FR 4
8	82-ZM1-225-210		GEAR, FR	38	82-ZM3-353-010		SPR-T, HEAD 2
9	82-ZM1-224-410		LVR, FR	39	82-ZM1-207-910		GUIDE, TAPE
10	82-ZM3-333-310		SLIP DISK ASSY 2	40	82-ZM1-314-110		PLATE, HEAD
11	82-ZM1-223-010		GEAR, PLAY	41	82-ZM1-208-310		HLDR, HEAD
12	82-ZM1-220-210		GEAR, IDLER	42	87-A90-821-010		HEAD, RPH HADKH56 FPC
13	82-ZM3-616-010		RING MAGNET 4	43	82-ZM1-210-110		GEAR, H T
14	82-ZM1-227-310		LVR, TRIG	44	82-ZM1-222-310		LVR, PLAY(*)
15	82-ZM1-305-210		SPR-E, TRIG 2	45	82-ZM1-344-210		LVR ASSY, PINCH R2
16	82-ZM1-255-310		SPR-E, LVR DIR	46	82-ZM1-259-210		SPR-T, PINCH R
17	82-ZM1-322-010		SPR-T, FR 60	A	87-251-070-410		U+2.6-3
18	82-ZM1-358-010		CHAS ASSY, FPC	B	87-741-073-410		UT2+2.6-6 GLD
19	82-ZM3-628-010		SOL ASSY, 23 SO	C	87-B10-008-010		W-P, 2.08-8-0.4-SLIP
20	82-ZM1-341-210		LVR ASSY, PINCH L2	D	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
21	82-ZM1-258-210		SPR-T, PINCH L	E	82-ZM3-334-010		PW 2.16-6-0.4
22	82-ZM1-333-210		PLATE, LINK2	F	86-ZM4-206-110		S-SCREW, AZIMUTH L
23	82-ZM1-244-510		SPR-C, BT	G	85-ZM3-202-010		S-SCREW, TG
24	82-ZM1-266-310		LVR, DIR	H	82-ZM3-222-010		S-SCREW, SHILD PLATE
25	82-ZM1-214-010		SPR-T, DIR	I	80-ZM6-207-010		V+1.6-7
26	82-ZM1-269-210		SPR-T, BRG				
27	82-ZM1-217-410		REEL TABLE				
28	82-ZM1-206-910		CHAS, HEAD				
29	82-ZM1-219-110		SPR-T, LINK				
30	82-ZM1-218-010		SPR-E, HB				

CD MECHANISM EXPLODED VIEW 1 / 2 < 3ZG – 3 E13NM >

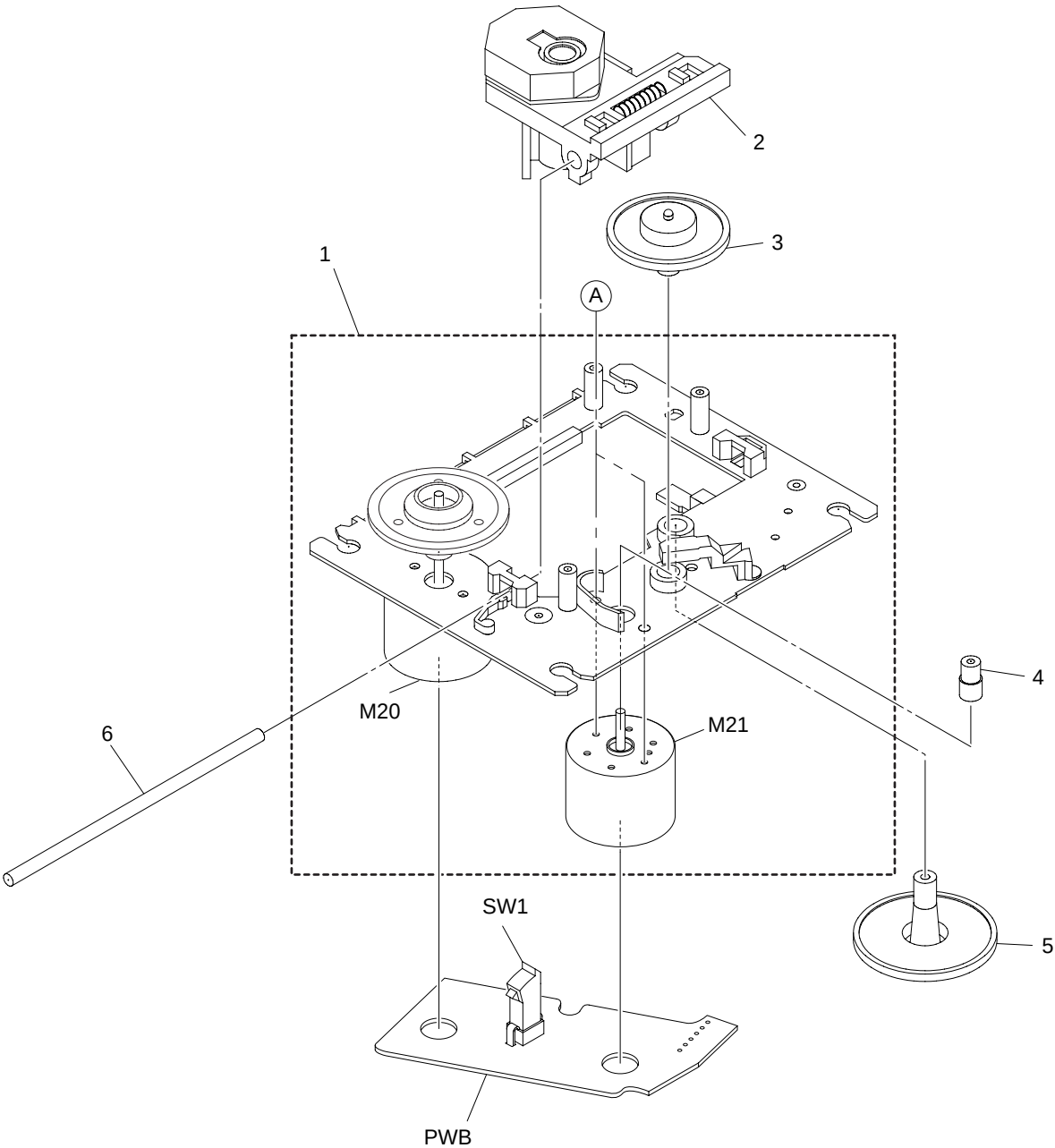


CD MECHANISM PARTS LIST 1 / 2 < 3ZG – 3 E13NM >

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-224-510		HLDR M2
2	83-ZG3-228-610		CHAS, L6
3	83-ZG3-208-010		PULLEY, MOTOR
4	83-ZG3-213-010		LVR, SW
5	83-ZG3-209-610		CAM, SLIDE
6	83-ZG3-207-010		GEAR, TRAY
7	83-ZG3-204-210		GEAR, C
8	83-ZG3-205-010		GEAR, D
9	83-ZG3-219-010		PLATE, CLAMP
10	83-ZG3-220-210		GEAR, PULLEY 2
11	83-ZG3-214-010		BELT, L
12	83-ZG3-231-210		TRAY, CD 3
13	83-ZG3-230-110		HLDR, CHUCK 2(*)
14	86-ZG1-239-110		PLATE, DISC PC
15	83-ZG3-604-010		RING, MAG 2

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
16	86-ZG1-238-010		HLDR, MAGNET 6ZG N
17	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
A	87-067-945-110		VFT2+3-12(F10)
B	87-251-071-410		U+2.6-4
C	83-ZG3-235-010		VFT2+2.6-8
D	87-352-075-210		VT2+2.6-10
E	83-ZG3-217-010		S-SCREW, GEAR D
F	81-ZG1-254-010		S-SCREW, MECH HLDR

CD MECHANISM EXPLODED VIEW 2 / 2 < 3ZG – 2 E3NM >



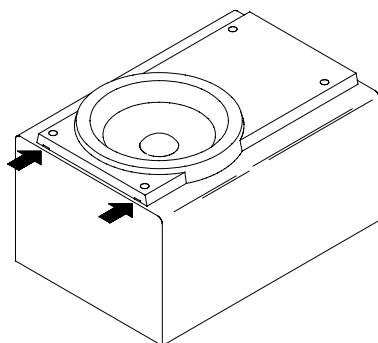
CD MECHANISM PARTS LIST 2 / 2 < 3ZG – 2 E3NM >

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-262-010		CHAS ASSY, E3
2	87-A90-836-010		PICKUP, KSS-213F
3	83-ZG2-235-010		GEAR, A3
4	83-ZG2-236-010		GEAR, MOTOR 3
5	83-ZG2-205-310		GEAR, B
6	83-ZG2-253-010		SHAFT, SLIDE 5
A	87-261-032-210		V+2-3

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

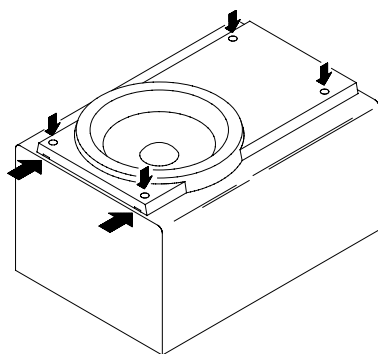
Type.1

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



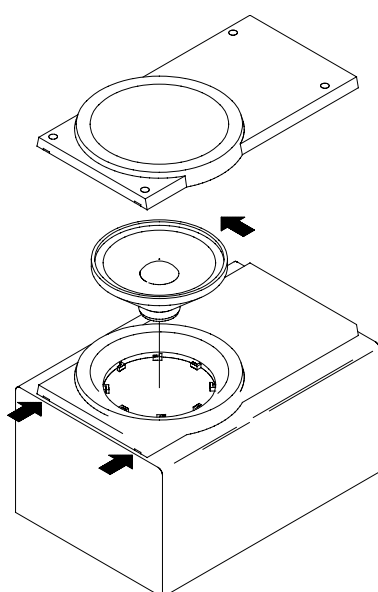
Type.2

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

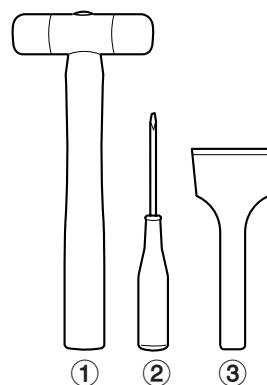


Type.3

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



Type.4



TOOLS

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

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

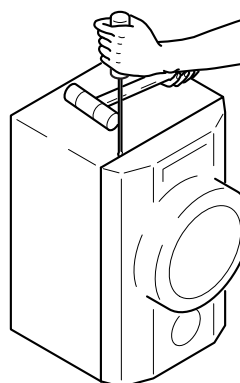


Fig-1

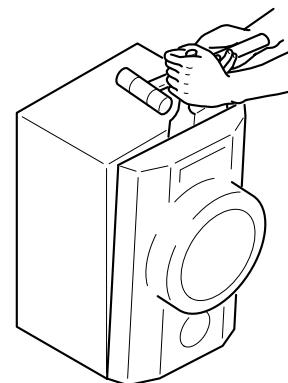


Fig-2

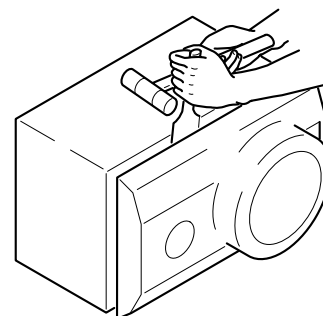


Fig-3

How to Attach the PANEL, FR

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

SPEAKER PARTS LIST (SX – M510)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-FP4-403-010		PANEL, FR FP
2	8A-FP4-404-010		PANEL, SP FP
3	8A-CJ4-405-010		PANEL, RING TW
4	8A-CJ4-406-010		GRILLE, FRAME ASSY L
5	8A-CJ4-410-010		SPKR, W 130
6	8A-CJ4-501-010		CORD, SP
7	8A-CJ5-417-010		SPKR, TW 25

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-FP4-906-010		IB, EZ(6L)M
2	87-006-225-010		AM LOOP ANT NC2
3	87-A90-118-010		ANT, WIRE FM(Z)
4	8A-FP4-951-010		RC UNIT, RC-AAT17

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