

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR5NM
BASIC CD MECHANISM : 6ZG-1 ZRDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-L700	CX-ZL700	SX-WZL700	RC-ZAS12

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" Z-L700 (EZ,K), (S/M Code No. 09-003-422-7T2).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, (S/M Code No. 09-001-338-7N2).

aiwa

S/M Code No. 09-006-422-7R2

REVISION

DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 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>

Mid-high frequency amplifier

Power output	Rated : 32 W + 32 W (1 kHz, T.H.D. 1 %, 8 ohms) Reference : 40 W + 40 W (8 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER : 80 W + 80 W
Total harmonic distortion	0.15 % (15 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output	Rated : 96 W + 96 W (75 Hz, T.H.D. 1 %, 6 ohms) Reference : 120 W + 120 W (75 Hz, T.H.D. 10 %, 6 ohms) DIN MUSIC POWER : 220 W + 220 W
Total harmonic distortion	0.15 % (45 W, 75 Hz, 6 ohms, DIN AUDIO)

Inputs

VIDEO / AUX IN : 310 mV (adjustable)
PHONO : 400 mV (47 kohms)

Outputs

MIC 1, MIC 2 : 1.4 mV (20 kohms)
CD DIGITAL OUT (OPTICAL)
SPEAKERS HIGH FREQ : accept
speakers of 8 ohms or more
SPEAKERS LOW FREQ : accept
speakers of 6 ohms or more
SURROUND SPEAKERS : accept
speakers of 8 – 16 ohms or more
PHONES (stereo jack) : accepts
headphones of 32 ohms or more

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780$ 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

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape : 50 Hz – 16000 Hz Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio	50 dB (CrO ₂ tape peak level, above 400 Hz)
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording / Playback / erase head x 1

<Speaker system SX-WZL700>

Cabinet type	3 way, built-in subwoofer
Speakers	Subwoofer : 200 mm (7 ⁷ / ₈ in.) cone type Full range : 120 mm (4 ³ / ₄ in.) cone type Super tweeter: 60 mm (2 ³ / ₈ in.) ceramic type
Impedance	6 ohms / 8 ohms
Output sound pressure level	88 dB/W/m
Dimensions (W x H x D)	260 x 495 x 355 mm (10 ¹ / ₄ x 19 ¹ / ₂ x 14 in.)
Weight	8.5 kg (18 lbs 12 oz.)

<General>

Power requirements	230 V AC, 50 Hz
Power consumption	240 W
Dimensions of main unit (W x H x D)	360 x 395.3 x 402.3 mm (14 ¹ / ₄ x 15 ⁵ / ₈ x 15 ⁷ / ₈ in.)
Weight of main unit	12.7 kg (28 lbs)

• Design and specifications are subject to change without notice.

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

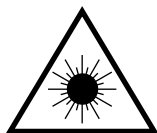
Under license from BBE Sound, Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän 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

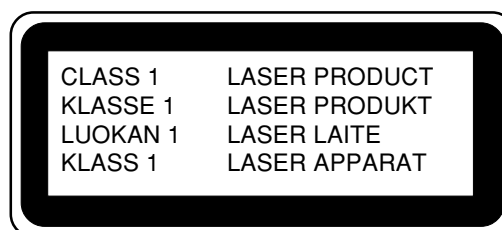
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



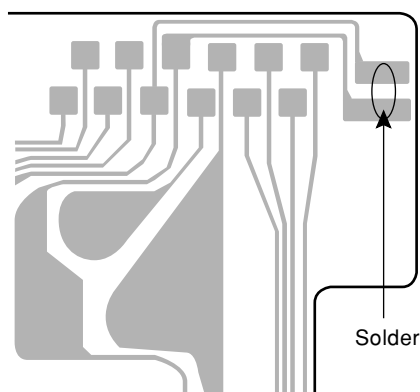
Precaution to replace Optical block

(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.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

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

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

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

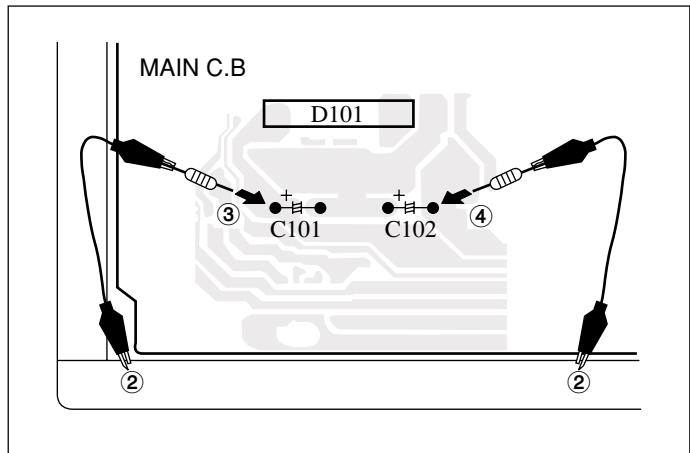


Fig-1

Select a discharging resistor referring to the following table.

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

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

2. Check items before exchanging the MICROCOMPUTER

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

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

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

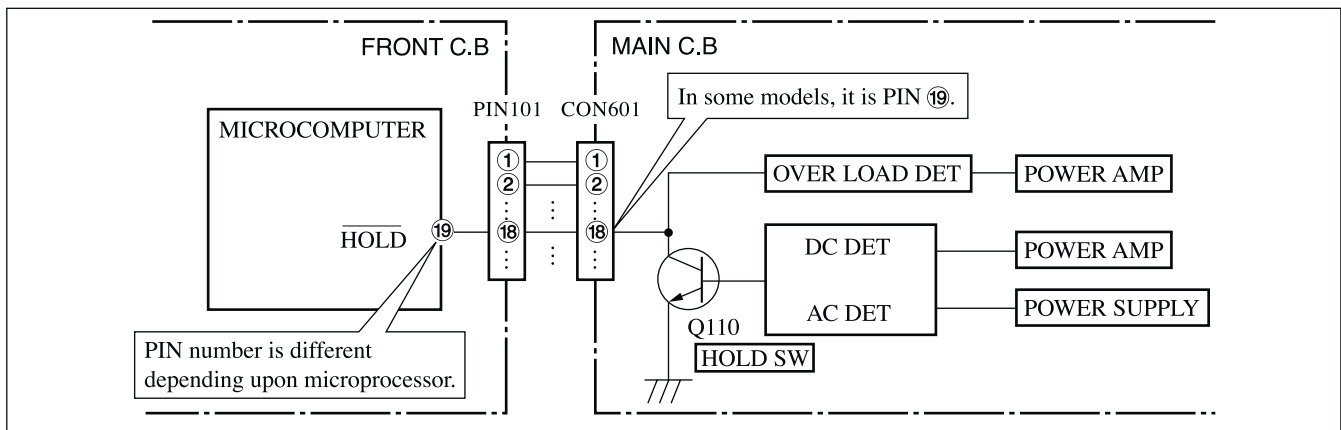


Fig-2-1

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

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

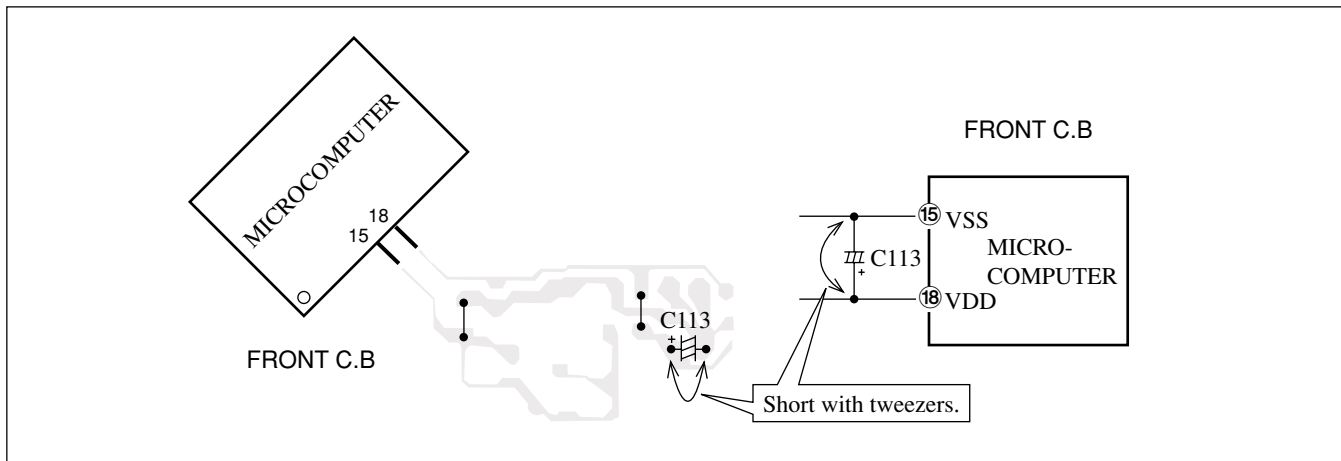


Fig-2-2

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

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

2-3. Confirmation of soldering state of MICROCOMPUTER

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

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C25	87-016-300-080		CAP, ELECT 22-100
	8A-MA3-656-010		C-IC, LC876580W-5P55	C26	87-016-300-080		CAP, ELECT 22-100
	87-A21-418-010		IC, STK490-340	C27	87-016-300-080		CAP, ELECT 22-100
	87-A21-397-010		IC, STK490-070	C28	87-016-300-080		CAP, ELECT 22-100
	87-A21-021-040		C-IC, BU2099FV	C31	87-010-263-080		CAP, ELECT 100-10V
	87-A20-783-040		C-IC, BA7762AFS	C32	87-010-197-080		CAP, CHIP 0.01-25
	87-A21-577-040		C-IC, M61506FP	C34	87-010-247-080		CAP, ELECT 100-50V
	87-A21-482-010		IC, RPM6938-H4	C35	87-010-406-080		CAP, ELECT 22-50V
	87-A21-018-040		C-IC, M65849BFP631D	C36	87-010-381-080		CAP, ELECT 330-16V
	87-A21-452-030		C-IC, BD3876KS2	C38	87-010-394-080		CAP, ELECT 220-35V
	87-070-289-040		IC, BU 2092F	C39	87-010-394-080		CAP, ELECT 220-35V
	87-A21-415-010		IC, LA1843	C40	87-010-197-080		CAP, CHIP 0.01-25
	87-A21-051-040		C-IC, BU9990-03FS	C60	87-010-403-080		CAP, ELECT 3.3-50V
	87-070-127-110		IC, LC72131 D	C61	87-010-260-080		CAP, ELECT 47-25V
	87-020-454-010		IC, DN6851	C80	87-010-401-080		CAP, ELECT 1-50V
	87-A20-440-040		C-IC, BU1920FS	C81	87-010-374-080		CAP, ELECT 47-10V
TRANSISTOR				C82	87-010-380-080		CAP, ELECT 47-16V
	87-026-609-080		TR, KTA1266GR	C104	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-026-610-080		TR, KTC3198GR	C105	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-076-080		C-TR, 2SC3052F	C111	87-010-401-080		CAP, ELECT 1-50 M
	87-A30-075-080		C-TR, 2SA1235F	C112	87-010-401-080		CAP, ELECT 1-50 M
	87-A30-318-080		TR, CSA952K	C113	87-010-545-080		CAP, ELECT 0.22-50V
	89-213-702-010		TR, 2SB1370E	C114	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-218-080		TR, 2SB1237Q	C115	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-257-080		C-TR, 2SD1306E	C116	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-107-070		C-TR, CMBT5401	C117	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-026-245-080		TR, DTC114ES	C121	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-198-080		TR, KTC3199GR	C122	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-484-080		C-TR, KRA 102S	C160	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-269-040		C-FET, 2SJ461-T1	C161	87-012-280-080		C-CAP, S U 3300P-50 KB
	87-A30-086-070		C-TR, CSD1360E	C162	87-012-280-080		C-CAP, S U 3300P-50 KB
	87-A30-087-080		C-FET, 2SK2158	C171	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-468-080		C-TR, KRC 102S-RTK	C172	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-106-070		C-TR, CMBT5551	C173	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-329-080		TR, CD1585BC	C174	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-063-080		C-TR, KRA 104S	C175	87-012-280-080		C-CAP, S U 3300P-50 KB
	89-503-602-080		C-FET, 2SK360E	C176	87-012-280-080		C-CAP, S U 3300P-50 KB
	89-327-143-080		TR, 2SC27140	C301	87-010-318-080		C-CAP, S 47P-50 CH
	87-A30-489-080		C-TR, KRA107S	C302	87-010-318-080		C-CAP, S 47P-50 CH
	87-A30-234-080		TR, CSC4115BC	C303	87-012-157-080		C-CAP, S 330P-50 CH
	87-026-463-080		TR, 2SA933SR5	C304	87-012-157-080		C-CAP, S 330P-50 CH
				C305	87-012-157-080		C-CAP, S 330P-50 CH
				C306	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
DIODE				C310	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-020-465-080		DIODE, 1SS133	C311	87-010-198-080		CAP, CHIP 0.022-25
	87-A40-673-090		DIODE, D10XB20	C312	87-010-198-080		CAP, CHIP 0.022-25
	87-A40-553-080		DIODE, 1N4003 LES	C313	87-010-178-080		CHIP CAP 1000P-50
	87-A40-780-080		ZENER, UZ33BSD	C314	87-010-178-080		CHIP CAP 1000P-50
	87-A40-764-080		ZENER, UZ10BSC	C315	87-010-178-080		CHIP CAP 1000P-50
	87-A40-313-080		C-DIODE, MC 2840	C316	87-010-178-080		CHIP CAP 1000P-50
	87-A40-270-080		C-DIODE, MC2838	C321	87-012-142-080		CAP, S 0.33-16
	87-A40-269-080		C-DIODE, MC2836	C322	87-012-142-080		CAP, S 0.33-16
	87-A40-768-080		ZENER, UZ 16BSA	C324	87-010-260-080		CAP, ELECT 47-25V
	87-017-447-010		DIODE, GBU4DL-6419	C325	87-010-370-080		CAP, E 330-6.3 SME
	87-017-154-080		ZENER, HZS6C3L	C327	87-010-404-080		CAP, ELECT 4.7-50V
	87-020-331-080		CHIP-DIODE, DAN202K	C328	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-654-060		DIODE, GBU6JL6131	C332	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A40-751-080		ZENER, UZ6.2BSB	C335	87-010-401-080		CAP, ELECT 1-50V
	87-A40-747-080		ZENER, UZ5.1BSB	C336	87-010-401-080		CAP, ELECT 1-50V
	87-A40-438-080		ZENER, MTZJ4.7A	C337	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-017-149-080		ZENER, HZS6A2L	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-50
MAIN C.B				C352	87-012-140-080		CAP 470P-50
C3	87-A10-712-080		C-CAP, S 0.22-50 F	C354	87-010-175-080		CAP 560P-50
C4	87-A10-712-080		C-CAP, S 0.22-50 F	C355	87-010-178-080		C-CAP, S 1000P-50 KB
C21	87-016-035-090		CAP, E 6800-35 VR	C356	87-010-260-080		CAP, ELECT 47-25V
C22	87-016-035-090		CAP, E 6800-35 VR	C357	87-010-197-080		CAP, CHIP 0.01-25 KB

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C358	87-010-183-080		C-CAP,S 2700P-50 B	C644	87-010-401-080		CAP, ELECT 1-50V
C359	87-010-183-080		C-CAP,S 2700P-50 B	C671	87-010-322-080		C-CAP,S 100P-50 CH
C360	87-010-183-080		C-CAP,S 2700P-50 B	C672	87-010-322-080		C-CAP,S 100P-50 CH
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C673	87-010-190-080		C-CAP,S 0.01-50 ZF
C373	87-A11-177-080		C-CAP,S 0.15-16 K B	C675	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-A11-177-080		C-CAP,S 0.15-16 K B	C679	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C378	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF	C680	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C379	87-010-406-080		CAP, ELECT 22-50	C682	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C380	87-010-406-080		CAP, ELECT 22-50	C683	87-010-197-080		C-CAP,S 0.01-25 KB
C386	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF	C771	87-010-263-080		CAP, ELECT 100-10V
C388	87-012-156-080		C-CAP,S 220P-50 J CH	C772	87-010-197-080		CAP, CHIP 0.01-25KB
C391	87-010-319-080		C-CAP,S 56P-50 J CH	C779	87-010-971-080		C-CAP,S 4700P-50 J B
C392	87-010-319-080		C-CAP,S 56P-50 J CH	C780	87-010-971-080		C-CAP,S 4700P-50 J B
C393	87-010-319-080		C-CAP,S 56P-50 J CH	C782	87-010-197-080		CAP, CHIP 0.01-25KB
C394	87-010-319-080		C-CAP,S 56P-50 J CH	C783	87-010-197-080		CAP, CHIP 0.01-25KB
C395	87-010-197-080		CHIP CAPACITOR,0.1-25 K B	C784	87-010-197-080		CAP, CHIP 0.01-25KB
C501	87-010-263-080		CAP, ELECT 100-10V	C785	87-010-197-080		CAP, CHIP 0.01-25KB
C502	87-010-196-080		CHIP CAPACITOR,0.1-25	C786	87-010-197-080		CAP, CHIP 0.01-25KB
C503	87-016-460-080		C-CAP,S 0.22-16 K B	C788	87-010-149-080		C-CAP,S 5P-50 CH
C504	87-016-460-080		C-CAP,S 0.22-16 K B	C789	87-A10-801-080		C-CAP,S 0.022-16 J B
C505	87-016-460-080		C-CAP,S 0.22-16 K B	C790	87-A10-801-080		C-CAP,S 0.022-16 J B
C506	87-010-184-080		CHIP CAPACITOR 3300P-50	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C507	87-010-177-080		C-CAP,S 820P-50 SL	C792	87-010-197-080		CAP, CHIP 0.01-25KB
C508	87-016-669-080		C-CAP,S 0.1-25 K B	C793	87-010-404-080		CAP, ELECT 4.7-50V
C509	87-016-669-080		C-CAP,S 0.1-25 K B	C795	87-010-197-080		CAP, CHIP 0.01-25KB
C510	87-010-184-080		CHIP CAPACITOR 3300P-50	C796	87-010-197-080		CAP, CHIP 0.01-25KB
C511	87-010-177-080		C-CAP,S 820P-50 SL	C797	87-010-405-080		CAP, ELECT 10-50V
C512	87-016-460-080		C-CAP,S 0.22-16 K B	C798	87-010-197-080		CAP, CHIP 0.01-25KB
C513	87-010-544-080		CAP, ELECT 0.1-50V	C799	87-010-407-080		CAP, ELECT 33-50V
C514	87-010-374-080		CAP, ELECT 47-10V	C800	87-010-194-080		CAP, CHIP 0.047-25ZF
C515	87-010-401-080		CAP, ELECT 1-50 M	C801	87-010-403-080		CAP, ELECT 3.3-50V
C516	87-010-401-080		CAP, ELECT 1-50 M	C802	87-010-194-080		CAP, CHIP 0.047-25 ZF
C517	87-010-183-080		C-CAP,S 2700P-50 B	C803	87-010-198-080		CAP, CHIP 0.022-25KB
C518	87-010-183-080		C-CAP,S 2700P-50 B	C804	87-010-263-080		CAP, ELECT 100-10V
C531	87-010-405-080		CAP, ELECT 10-50 M	C807	87-010-400-080		CAP, ELECT 0.47-50V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C808	87-010-401-080		CAP, ELECT 1-50V
C533	87-010-196-080		CHIP CAPACITOR,0.1-25	C809	87-010-401-080		CAP, ELECT 1-50V
C534	87-012-156-080		C-CAP,S 220P-50 CH	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C535	87-010-178-080		CHIP CAP 1000P-50	C811	87-010-403-080		CAP, ELECT 3.3-50V
C536	87-010-196-080		CHIP CAPACITOR,0.1-25	C812	87-010-403-080		CAP, ELECT 3.3-50V
C537	87-010-318-080		C-CAP,S 47P-50 CH	C814	87-010-197-080		CAP, CHIP 0.01-25
C538	87-010-318-080		C-CAP,S 47P-50 CH	C815	87-010-403-080		CAP, ELECT 3.3-50V
C539	87-010-318-080		C-CAP,S 47P-50 CH	C816	87-010-403-080		CAP, ELECT 3.3-50V
C541	87-010-178-080		CHIP CAP 1000P-50	C818	87-010-180-080		C-CAP,S 1500P-50 KB
C611	87-010-956-080		CHIP-CAP,S 0.068-25B	C819	87-010-179-080		CAP,CHIP S 1200P-50
C612	87-010-369-080		C-CAP,S 0.033-25 K B	C820	87-010-179-080		CAP,CHIP S 1200P-50
C613	87-010-190-080		S CHIP F 0.01-50	C821	87-010-405-080		CAP, ELECT 10-50V
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C823	87-012-349-080		CAP, CHIP 1000P-50 J CH GRM
C616	87-010-185-080		C-CAP,S 3900P-50 K B	C824	87-010-405-080		CAP, ELECT 10-50
C617	87-010-194-080		CAP, CHIP 0.047-25ZF	C825	87-010-596-080		CAP, S 0.047-16
C618	87-010-401-080		CAP, ELECT 1-50V	C831	87-010-406-080		CAP,E 22-50 M 11L SME
C619	87-010-263-080		CAP, ELECT 100-10V	C842	87-010-197-080		CAP, CHIP 0.01-25 KB
C620	87-016-669-080		C-CAP,S 0.1-25 K B	C844	87-010-197-080		CAP, CHIP 0.01-25 KB
C621	87-010-197-080		CAP, CHIP 0.01-25 KB	C849	87-010-196-080		C-CAP,S 0.1-25 ZF
C623	87-010-401-080		CAP, ELECT 1-50V	C850	87-010-260-080		CAP, ELECT 47-25V
C624	87-010-401-080		CAP, ELECT 1-50V	C851	87-010-197-080		CAP, CHIP 0.01-25 KB
C626	87-A11-590-080		CAP, CHIP 0.047-16 KB	C852	87-010-197-080		CAP, CHIP 0.01-25 KB
C627	87-010-400-080		CAP, ELECT 0.47-50V	C853	87-010-197-080		CAP, CHIP 0.01-25 KB
C628	87-010-400-080		CAP, ELECT 0.47-50V	C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C629	87-A11-590-080		CAP, CHIP 0.047-16 KB	C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C630	87-010-383-080		CAP, ELECT 33-25V	C860	87-010-197-080		CAP, CHIP 0.01-25
C631	87-010-185-080		C-CAP,S 3900P-50 K B	C869	87-010-197-080		C-CAP,S 0.1-25 KB
C632	87-010-185-080		C-CAP,S 3900P-50 K B	C871	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C634	87-010-196-080		CHIP CAPACITOR,0.1-25	C872	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C635	87-A10-307-080		CAP-M,S 0.1-50	C873	87-012-140-080		C-CAP,S 470P-50 J CH
C636	87-A10-307-080		CAP-M,S 0.1-50	C874	87-010-405-080		CAP,E 10-50 M 11L SME
C637	87-A10-307-080		CAP-M,S 0.1-50	C875	87-010-196-080		C-CAP,S 0.1-25 ZF
C638	87-A10-307-080		CAP-M,S 0.1-50	C877	87-010-197-080		C-CAP,S 0.1-25 KB
C639	87-010-405-080		CAP, ELECT 10-50V	C878	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C643	87-010-196-080		CHIP CAPACITOR,0.1-25	C879	87-010-314-080		C-CAP,S 22P-50 J CH GRM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C940	87-010-197-080		C-CAP,S 0.1-25 KB	R117	87-010-805-080		C-CAP,S 1-16 ZF
C942	87-010-149-080		C-CAP,S 5P-50 J CH GRM	R118	87-010-805-080		C-CAP,S 1-16 ZF
C947	87-010-197-080		C-CAP,S 0.1-25 KB	R161	87-A00-441-050		RES,270-1/2W J RP
C948	87-012-140-080		C-CAP,S 470P-50 J CH	R162	87-A00-441-050		RES,270-1/2W J RP
C952	87-010-197-080		C-CAP,S 0.1-25 KB	R163	87-A00-441-050		RES,270-1/2W J RP
C957	87-010-311-080		C-CAP,S 12P-50 J CH GRM	R164	87-A00-441-050		RES,270-1/2W J RP
C958	87-010-197-080		C-CAP,S 0.1-25 KB	R671	83-XM1-617-080		C-COIL,BK2125HM601
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	R672	83-XM1-617-080		C-COIL,BK2125HM601
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	R790	87-010-197-080		C-CAP,S 0.01-25 KB
C962	87-010-401-080		CAP,E 1-50 M 11L SME	R991	87-010-322-080		C-CAP,S 100P-50 J CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1-25ZF	R993	87-010-322-080		C-CAP,S 100P-50 J CH
C971	87-010-381-080		CAP, ELECT 330-16V	R995	87-010-322-080		C-CAP,S 100P-50 J CH
C972	87-010-404-080		CAP, ELECT 4.7-50V	SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
C973	87-010-197-080		CAP, CHIP 0.01-25KB	SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
C974	87-010-197-080		CAP, CHIP 0.01-25KB	TC942	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECRLA
C979	87-010-322-080		C-CAP,S 100P-50 CH	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C981	87-010-260-080		CAP, ELECT 47-25V	X861	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C983	87-010-197-080		CAP, CHIP 0.01-25KB				
C984	87-010-197-080		CAP, CHIP 0.01-25KB				
MICON C.B							
C985	87-010-322-080		C-CAP,S 100P-50 J CH GRM	C101	87-010-498-040		CAP,E 10-16 GAS
C987	87-010-197-080		CAP, CHIP 0.01-25KB	C102	87-010-194-080		CAP, CHIP 0.047-25
C989	87-010-197-080		CAP, CHIP 0.01-25KB	C103	87-010-194-080		CAP, CHIP 0.047-25
C991	87-010-312-080		C-CAP,S 15P-50 CH	C105	87-A11-242-040		CAP,E 220-10 M 5L SRM
C992	87-010-312-080		C-CAP,S 15P-50 CH	C106	87-A11-242-040		CAP,E 220-10 M 5L SRM
C993	87-010-178-080		CHIP CAP 1000P-50	C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C995	87-010-178-080		CHIP CAP 1000P-50	C111	87-016-460-080		C-CAP,S 0.22-16 K B
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C112	87-010-493-040		CAP,E 0.47-50 GAS
C998	87-010-260-080		CAP, ELECT 47-25V	C113	87-010-178-080		CHIP CAP 1000P-50
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C114	87-018-209-080		CAP,TC U 0.01-50
CF831	87-008-423-010		FILTER, CF SFE10.7MS3G-A				
CF832	82-785-747-010		CF MS2 GHY,R	C116	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C122	87-012-369-080		C-CAP,S 0.047-50F
CN91	87-A60-109-010		CONN,2P V S2M-2W	C123	87-010-408-040		CAP,E 47-50 SME
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C124	87-010-421-040		CAP,E 4.7-50 5L
				C125	87-010-421-040		CAP,E 4.7-50 5L
CN301	87-A60-620-010		CONN,3P V 2MM JMT				
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C132	87-012-156-080		C-CAP,S 220P-50 CH
CN601	87-099-719-010		CONN,30P TYK-B(X)	C133	87-010-316-080		C-CAP,S 33P-50 CH
CN602	87-A60-131-010		CONN,6P V FE	C134	87-010-178-080		C-CAP,S 1000P-50 K B
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C135	87-018-209-080		CAP, TC U 0.01-50
				C137	87-010-313-080		CAP, CHIP 18P-50
CNA2	8A-NF6-640-010		CONN ASSY,3P (VM) ANF-6				
FB161	87-003-223-080		F-BEAD, BL02RN2	C138	87-010-196-080		CHIP CAPACITOR,0.1-25
FB162	87-003-223-080		F-BEAD, BL02RN2	C171	87-010-213-080		C-CAP,S 0.015-50 B
FB301	87-A90-896-080		F-BEAD, 035600STY7	C172	87-010-183-080		C-CAP,S 2700P-50 B
FB501	87-008-372-080		FILTER,EMI BL OIRNI	C188	87-010-194-080		CAP, CHIP 0.047-25
				C193	87-010-197-080		CAP, CHIP 0.01 DM
FC602	88-906-321-110		FF-CABLE,6P 1.25 320MM				
FFB831	A8-6ZA-191-130		6ZA-1 FEENM	C251	87-010-196-080		CHIP CAPACITOR,0.1-25
J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C252	87-012-156-080		C-CAP,S 220P-50 CH
J102	87-A60-238-010		TERMINAL,SP 4P	C253	87-010-322-080		C-CAP,S 100P-50 CH
J603	87-A60-926-010		JACK,PIN 4P R/W/TC58-118	C301	87-010-195-080		C-CAP,S 0.068-25 ZF
				C302	87-010-171-080		C-CAP,S 270P-50 J SL
J832	87-A60-403-010		TERMINAL,ANT 2P HSP-312V05				
JR301	83-XM1-617-080		C-COIL,BK2125HM601	C303	87-012-358-080		C-CAP,S 0.47-10 F Z
JR302	83-XM1-617-080		C-COIL,BK2125HM601	C304	87-012-358-080		C-CAP,S 0.47-10 F Z
JR340	83-XM1-617-080		C-COIL,BK2125HM601	C305	87-010-196-080		CHIP CAPACITOR,0.1-25
JW411	87-003-216-080		F-BEAD, -3.6-5 BL01RN1-A62T5	C306	87-010-196-080		CHIP CAPACITOR,0.1-25
				C310	87-010-196-080		CHIP CAPACITOR,0.1-25
JW416	87-A90-896-080		F-BEAD, 035600STY7	C311	87-010-405-040		CAP,E 10-50
JW625	87-A90-896-080		F-BEAD, 035600STY7	C411	87-012-157-080		C-CAP,S 330P-50 CH
JW646	87-A90-896-080		F-BEAD, 035600STY7	C412	87-010-405-040		CAP,E 10-50
JW659	87-A90-896-080		F-BEAD, 035600STY7	C421	87-010-197-080		CAP, CHIP 0.01-25
JW991	87-A90-896-080		F-BEAD, 035600STY7	C422	87-010-182-080		C-CAP,S 2200P-50 B
L101	87-A50-610-010		COIL,1UH K (MDEC)				
L102	87-A50-610-010		COIL,1UH K (MDEC)	C940	87-012-145-080		CAP, CHIP S 270P-50 J CH
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C941	87-012-145-080		CAP, CHIP S 270P CH
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C942	87-012-145-080		CAP, CHIP S 270P CH
L351	87-007-342-010		COIL,OSC 85K BIAS	C943	87-012-145-080		CAP, CHIP S 270P CH
				C944	87-012-145-080		CAP, CHIP S 270P CH
L801	87-A50-540-010		COIL,FM DET(TOK)				
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	C945	87-012-145-080		CAP, CHIP S 270P CH
L811	87-005-847-080		COIL,2.2UH(CECS)	C946	87-012-145-080		CAP, CHIP S 270P CH
L832	87-005-847-080		COIL,2.2UH(CECS)	C947	87-012-145-080		CAP, CHIP S 270P CH
L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)	C948	87-012-145-080		CAP, CHIP S 270P CH

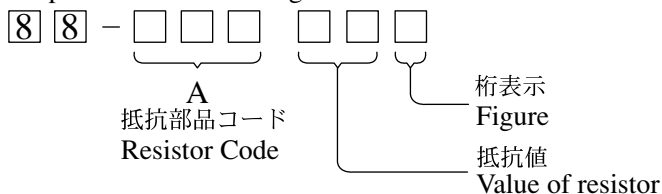
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C949	87-012-145-080		CAP, CHIP S 270P CH	LED686	87-A40-678-010		LED, SELU1E10CXM BLUE-DEF
C950	87-012-145-080		CAP, CHIP S 270P CH	LED692	87-A40-678-010		LED, SELU1E10CXM BLUE-DEF
C951	87-012-145-080		CAP, CHIP S 270P CH	S651	87-A91-624-010		SW, RTRY EC12E1240405-20MM
C952	87-012-145-080		CAP, CHIP S 270P CH	S805	87-A90-095-080		SW, TACT EVQ11G04M
CN101	87-099-720-010		CONN, 30P TYK-B (P)	S806	87-A90-095-080		SW, TACT EVQ11G04M
CN102	87-A60-162-010		CONN, 14P H FE	S807	87-A90-095-080		SW, TACT EVQ11G04M
CN103	87-A60-166-010		CONN, 18P H FE	S808	87-A90-095-080		SW, TACT EVQ11G04M
CN104	87-A60-163-010		CONN, 15P H FE	S809	87-A90-095-080		SW, TACT EVQ11G04M
CN301	87-A60-156-010		CONN, 8P H FE	S810	87-A90-095-080		SW, TACT EVQ11G04M
CNA105	8A-MA3-654-010		CONN ASSY, 2P V 200MM	S811	87-A90-095-080		SW, TACT EVQ11G04M
FB001	87-A90-896-080		F-BEAD, 035600STY7	S812	87-A90-095-080		SW, TACT EVQ11G04M
FC102	88-914-231-110		FF-CABLE, 14P 1.25	S813	87-A90-095-080		SW, TACT EVQ11G04M
FC103	88-918-151-110		FF-CABLE, 18P 1.25	S815	87-A90-095-080		SW, TACT EVQ11G04M
FC104	88-915-151-110		FF-CABLE, 15P 1.25 150MM	S816	87-A90-095-080		SW, TACT EVQ11G04M
FL101	8A-MA3-651-010		FL, BJ751GNK	S821	87-A90-095-080		SW, TACT EVQ11G04M
L101	87-A50-333-010		COIL, OSC 9.43MHZ	S822	87-A90-095-080		SW, TACT EVQ11G04M
LED131	87-A40-317-080		LED, SLR-342VCT31 RED	S823	87-A90-095-080		SW, TACT EVQ11G04M
LED201	87-A40-496-040		LED, SLR-342PCT31 GRN	S824	87-A90-095-080		SW, TACT EVQ11G04M
LED202	87-A40-317-080		LED, SLR-342VCT31 RED	S825	87-A90-095-080		SW, TACT EVQ11G04M
LED203	87-A40-496-040		LED, SLR-342PCT31 GRN	S826	87-A90-095-080		SW, TACT EVQ11G04M
LED205	87-A40-317-080		LED, SLR-342VCT31 RED	S827	87-A90-095-080		SW, TACT EVQ11G04M
LED206	87-A40-496-040		LED, SLR-342PCT31 GRN	S828	87-A90-095-080		SW, TACT EVQ11G04M
LED207	87-A40-317-080		LED, SLR-342VCT31 RED	S829	87-A90-095-080		SW, TACT EVQ11G04M
LED209	87-A40-496-040		LED, SLR-342PCT31 GRN	S830	87-A90-095-080		SW, TACT EVQ11G04M
LED210	87-A40-317-080		LED, SLR-342VCT31 RED	S831	87-A90-095-080		SW, TACT EVQ11G04M
LED211	87-A40-496-040		LED, SLR-342PCT31 GRN	S836	87-A90-095-080		SW, TACT EVQ11G04M
LED212	87-A40-317-080		LED, SLR-342VCT31 RED	S837	87-A90-095-080		SW, TACT EVQ11G04M
LED213	87-A40-317-080		LED, SLR-342VCT31 RED	S838	87-A90-095-080		SW, TACT EVQ11G04M
LED214	87-A40-317-080		LED, SLR-342VCT31 RED	S842	87-A90-095-080		SW, TACT EVQ11G04M
S401	87-A90-095-080		SW, TACT EVQ11G04M	S843	87-A90-095-080		SW, TACT EVQ11G04M
S402	87-A90-095-080		SW, TACT EVQ11G04M	S844	87-A90-095-080		SW, TACT EVQ11G04M
S403	87-A90-095-080		SW, TACT EVQ11G04M	S845	87-A90-095-080		SW, TACT EVQ11G04M
S404	87-A90-095-080		SW, TACT EVQ11G04M	S846	87-A90-095-080		SW, TACT EVQ11G04M
S405	87-A90-095-080		SW, TACT EVQ11G04M	S847	87-A90-095-080		SW, TACT EVQ11G04M
S421	87-A91-625-010		SW, RTRY EC12E24308-30MM	S848	87-A90-095-080		SW, TACT EVQ11G04M
CNTL C.B				S849	87-A90-095-080		SW, TACT EVQ11G04M
C602	87-010-069-040		CAP, E 0.33-50	S850	87-A90-095-080		SW, TACT EVQ11G04M
C603	87-010-319-080		C-CAP, S 56P-50 CH	S851	87-A90-095-080		SW, TACT EVQ11G04M
C604	87-010-178-080		CHIP CAP 1000P-50				
C606	87-015-785-080		CHIP CAPACITOR, 0.1-25	AMP IF C.B			
C607	87-010-060-040		CAP, E 100-16	C1	87-A10-264-080		C-CAP, S 0.1-16 ZF
C611	87-010-186-080		CAP, CHIP 4700P-50	C2	87-A10-264-080		C-CAP, S 0.1-16 ZF
C612	87-015-699-040		CAP, E 10-50	C3	87-010-186-080		CAP, CHIP 4700P-50
C651	87-010-182-080		C-CAP, S 2200P-50 B	C101	87-010-178-080		CHIP CAP 1000P-50
C652	87-010-197-080		CAP, CHIP 0.01-25	C102	87-010-178-080		CHIP CAP 1000P
C661	87-010-196-080		CHIP CAPACITOR, 0.1-25	C103	87-010-405-080		CAP, ELECT 10-50V
C662	87-010-196-080		CHIP CAPACITOR, 0.1-25	C104	87-010-405-080		CAP, ELECT 10-50V
C663	87-012-156-080		C-CAP, S 220P-50 CH	C107	87-010-405-080		CAP, ELECT 10-50V
C664	87-012-156-080		C-CAP, S 220P-50 CH	C108	87-010-405-080		CAP, ELECT 10-50V
C686	87-010-196-080		CHIP CAPACITOR, 0.1-25	C111	87-012-140-080		C-CAP, S 470P-50 J CH
C692	87-010-196-080		CHIP CAPACITOR, 0.1-25	C112	87-012-140-080		C-CAP, S 470P-50 J CH
C846	87-010-196-080		CHIP CAPACITOR, 0.1-25	C113	87-010-260-080		CAP, ELECT 47-25V
CN661	87-A60-166-010		CONN, 18P H FE	C114	87-010-260-080		CAP, ELECT 47-25V
CNA602	8A-MA3-655-010		CONN ASSY, 2P V 60MM	C115	87-A10-119-080		CAP, ELECT 10-100 REA
LED671	87-A40-317-080		LED, SLR-342VCT31 RED	C116	87-A10-119-080		CAP, ELECT 10-100 REA
LED672	87-A40-317-080		LED, SLR-342VCT31 RED	C119	87-010-197-080		CAP, CHIP 0.01-25
LED673	87-A40-317-080		LED, SLR-342VCT31 RED	C120	87-010-197-080		CAP, CHIP 0.01-25
LED674	87-A40-317-080		LED, SLR-342VCT31 RED	C133	87-010-186-080		CAP, CHIP 4700P-50
LED675	87-A40-317-080		LED, SLR-342VCT31 RED	C203	88-707-949-810		CAP, M 0.47-50 J TF
LED677	87-A40-317-080		LED, SLR-342VCT31 RED	C204	88-707-949-810		CAP, M 0.47-50 J TF
LED678	87-A40-317-080		LED, SLR-342VCT31 RED	C205	87-010-186-080		C-CAP, S 4700P-50 KB
LED679	87-A40-317-080		LED, SLR-342VCT31 RED	C206	87-010-186-080		C-CAP, S 4700P-50 KB
LED680	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C207	87-010-403-080		CAP, ELECT 3.3-50V
LED681	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C208	87-010-403-080		CAP, ELECT 3.3-50V
LED682	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C209	87-010-184-080		CHIP CAPACITOR 3300P-50
LED683	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C210	87-010-184-080		CHIP CAPACITOR 3300P-50
LED684	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C211	87-010-403-080		CAP, ELECT 3.3-50V
LED685	87-A40-619-040		LED, SLR-56PT-T31-W GRN	C212	87-010-403-080		CAP, ELECT 3.3-50V
				C215	87-012-156-080		C-CAP, S 220P-50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C216	87-012-156-080		C-CAP,S 220P-50	VM	C.B		
C217	87-010-260-080		CAP, ELECT 47-25V				
C218	87-010-260-080		CAP, ELECT 47-25V				
C219	87-010-198-080		C-CAP,S 0.022-25 KB	PT	C.B		
C220	87-010-198-080		C-CAP,S 0.022-25 KB				
C221	87-010-405-080		CAP, ELECT 10-50V	C1	87-A11-148-080		CAP,TC U 0.1-50 Z F
C222	87-010-405-080		CAP, ELECT 10-50V	C2	87-A11-148-080		CAP,TC U 0.1-50 Z F
C223	87-010-197-080		CAP, CHIP 0.01-25	C3	87-A11-148-080		CAP,TC U 0.1-50 Z F
C224	87-010-197-080		CAP, CHIP 0.01-25	C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C251	87-010-993-080		C-CAP,S 0.056-25 B	C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C252	87-010-196-080		CHIP CAPACITOR,0.1-25	C6	87-A11-148-080		CAP,TC U 0.1-50 Z F
C253	87-010-196-080		CHIP CAPACITOR,0.1-25	C7	87-A11-148-080		CAP,TC U 0.1-50 Z F
C254	87-010-993-080		C-CAP,S 0.056-25 B	C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C255	87-010-190-080		S CHIP F 0.01-50	C101	87-010-387-080		CAP,E 470-25 SME
C256	87-010-190-080		S CHIP F 0.01-50	C102	87-A11-148-080		CAP,TC U 0.1-50 Z F
C291	87-010-374-080		CAP, ELECT 47-10V	C103	87-A11-148-080		CAP,TC U 0.1-50 Z F
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400	C104	87-A11-148-080		CAP,TC U 0.1-50 Z F
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C105	87-A11-148-080		CAP,TC U 0.1-50 Z F
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C106	87-A11-148-080		CAP,TC U 0.1-50 Z F
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE	C107	87-A11-148-080		CAP,TC U 0.1-50 Z F
JW14	87-018-131-080		CAP TC U 1000P-50 KB	C108	87-A11-148-080		CAP,TC U 0.1-50 Z F
JW51	87-A90-896-080		F-BEAD,035600STY7	C109	87-A11-148-080		CAP,TC U 0.1-50 Z F
JW65	87-003-223-080		F-BEAD,BL02RN2	C110	87-A11-148-080		CAP,TC U 0.1-50 Z F
JW101	87-018-214-080		CAP, TC U 0.1-50 ZF	C111	87-010-917-000		CAP,E 3300-50 M SMG
L251	87-A50-610-010		COIL,1UH-S	C112	87-010-917-000		CAP,E 3300-50 M SMG
L252	87-A50-610-010		COIL,1UH-S	C113	87-016-520-000		CAP,E 3300-65 M SMG
R131	87-A00-262-080		RES,M/F 0.15-2W J	C114	87-016-520-000		CAP,E 3300-65 M SMG
R132	87-A00-262-080		RES,M/F 0.15-2W J	C116	87-010-403-040		CAP,E 3.3-50 SME
R231	87-A00-258-080		RES,M/F 0.22-1W J	CN1	87-A61-110-010		CONN,9P V TID-A
R232	87-A00-258-080		RES,M/F 0.22-1W J	CN2	87-A61-108-010		CONN,5P V TID-A
WH101	87-A90-459-010		HLDR 2.5-5P	△ F101	87-035-458-010		FUSE,4A 250V T W/C
KEY CD C.B				△ FC101	87-033-213-080		CLAMP, FUSE
				△ FC104	87-033-213-080		CLAMP, FUSE
				△ PR103	87-026-682-080		PROTECTOR,10A 491SERIES 60V
				△ PR106	87-026-682-080		PROTECTOR,10A 491SERIES 60V
CN701	87-A60-156-010		CONN,8P H FE	△ PT1	8A-MA3-662-010		PT,AMA-3 EZ
FC701	88-908-231-110		FF-CABLE,8P 1.25	△ PT2	8A-NF8-662-010		PT,SUB ANF-8 (E)
LED771	87-A40-317-080		LED,SLR-342VCT31 RED	△ RY102	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
LED772	87-A40-317-080		LED,SLR-342VCT31 RED	△ T101	87-A60-317-010		TERMINAL, 1P MSC
LED773	87-A40-317-080		LED,SLR-342VCT31 RED	△ T102	87-A60-317-010		TERMINAL, 1P MSC
LED774	87-A40-317-080		LED,SLR-342VCT31 RED				
LED775	87-A40-317-080		LED,SLR-342VCT31 RED	DECK	C.B		
S751	87-A90-095-080		SW,TACT EVQ11G04M	CON502	87-099-756-010		CONN,15P 9604S F
S752	87-A90-095-080		SW,TACT EVQ11G04M	SFR1	87-024-581-010		SFR,3.3K DIA 6H
S753	87-A90-095-080		SW,TACT EVQ11G04M	SOL1	82-ZM1-626-010		SOL ASSY,27K
S754	87-A90-095-080		SW,TACT EVQ11G04M	SOL2	82-ZM1-626-010		SOL ASSY,27K
S755	87-A90-095-080		SW,TACT EVQ11G04M	SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S756	87-A90-095-080		SW,TACT EVQ11G04M	SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S757	87-A90-095-080		SW,TACT EVQ11G04M	SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
DK1 LED C.B				SW4	87-036-110-010		SW,MICRO SPPB62
LED724	87-A40-619-040		LED,SLR-56PT-T31-W GRN	SW5	87-036-110-010		SW,MICRO SPPB62
LED725	87-A40-589-040		LED,SLR-56VCT31 RED	SW6	87-036-110-010		SW,MICRO SPPB62
LED726	87-A40-619-040		LED,SLR-56PT-T31-W GRN	SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
DK2 LED C.B				SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
CN721	87-A60-619-010		CONNECTOR 2P V 2MM	W1	82-ZM3-601-010		RBN-CORD,4P-75
CNA722	8A-MA3-653-010		CONN ASSY,2P V 100MM	HEAD-1	C.B		
LED721	87-A40-619-040		LED,SLR-56PT-T31-W GRN				
LED722	87-A40-589-040		LED,SLR-56VCT31 RED	CON301	85-ZM3-601-010		PWB,FLEX I
LED723	87-A40-619-040		LED,SLR-56PT-T31-W GRN		8Z-NF3-643-010		CONN ASSY,3P-PB
MIC C.B				HEAD-2	C.B		
C601	87-010-196-080		CHIP CAPACITOR,0.1-25				
CN601	87-A60-619-010		CONNECTOR 2P V 2MM	CON351	85-ZM3-601-010		PWB,FLEX I
FB603	83-XM1-617-080		C-COIL,BK 2125HM 601		8Z-NF3-644-010		CONN ASSY,8P-RPB
J601	87-099-659-010		JACK,6.3 JY-6314-01130				
J602	87-099-659-010		JACK,6.3 JY-6314-01130				

○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

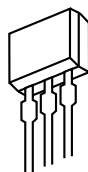
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

CD1585
CSA952
CSC4115
KTA1266
KTC3198
KTC3199



E C B

2SB1237



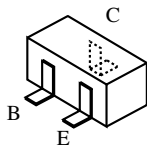
B C E

2SB1370

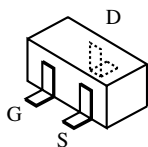


E C B

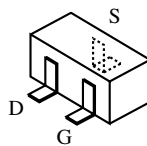
2SA933
DTC114ES



2SA1235
2SC2714
2SC3052
2SD1306
CSD1360
CMBT5401



2SJ461-T1
2SK2158



2SK360

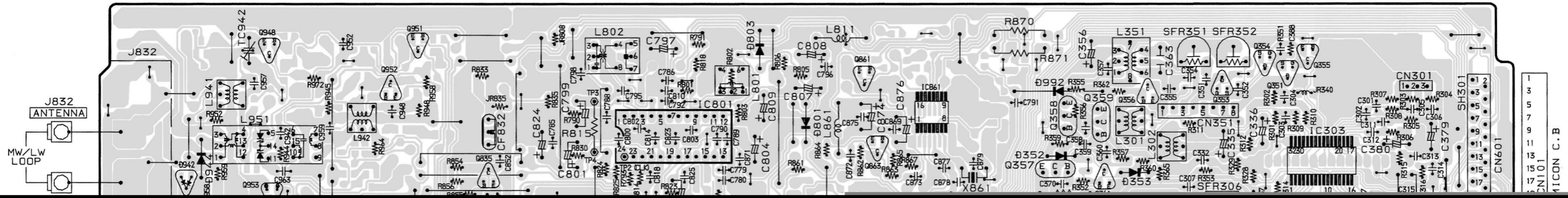
A MAIN C.B

FROM N HEAD-2 C.B

FROM M HEAD-1 C.B

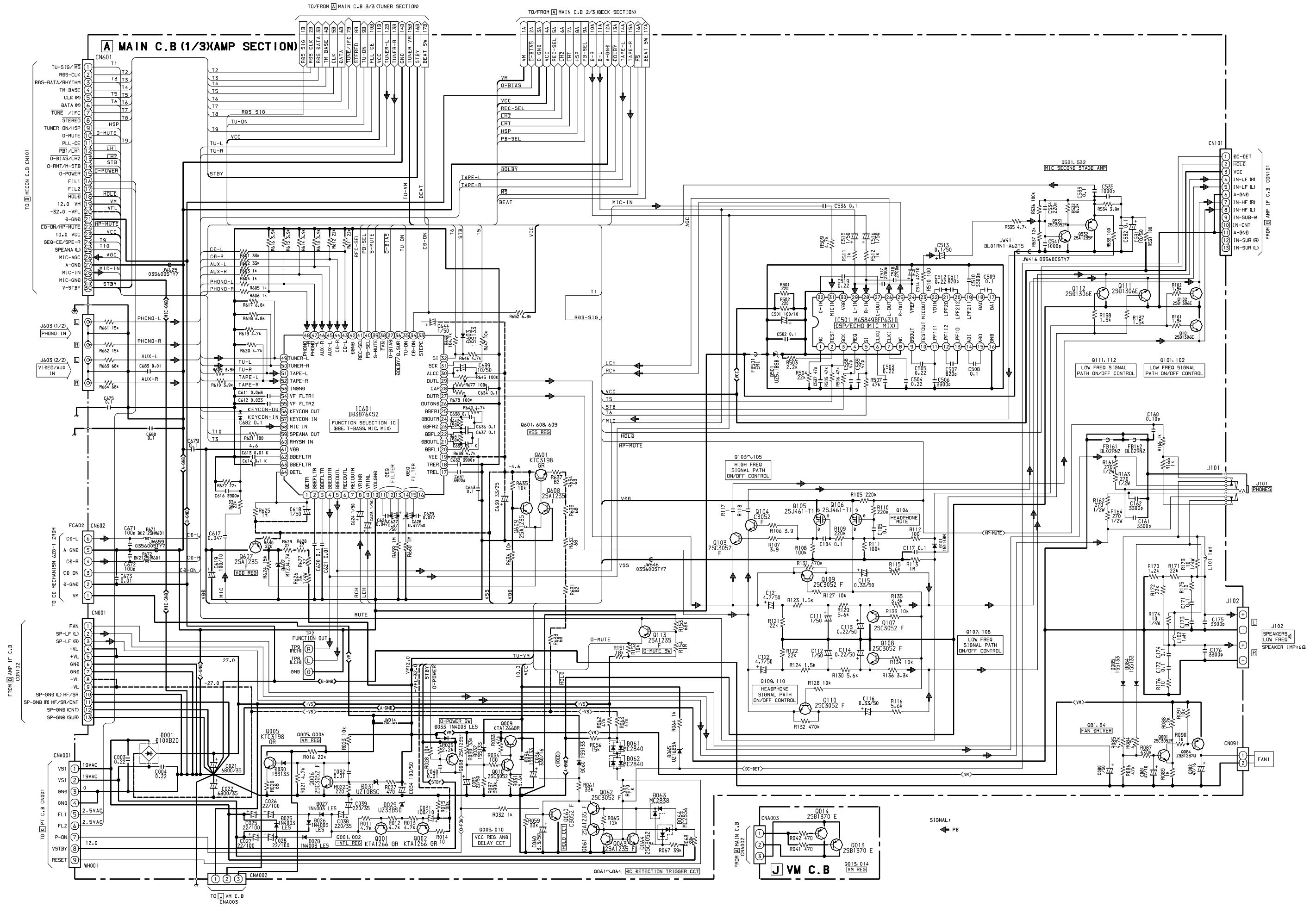
CON351
1 3 5 7 8

CON301
1 2 3

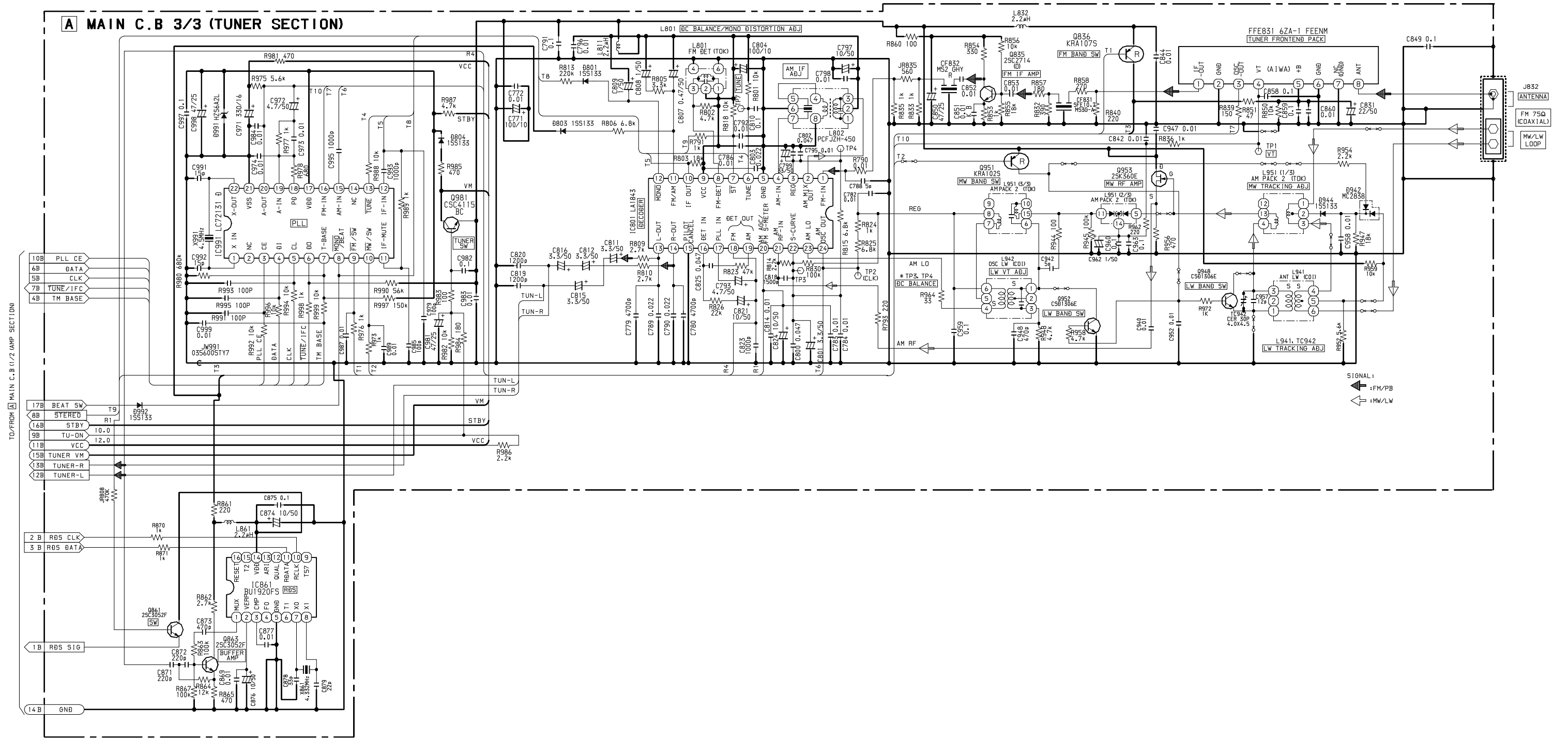


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SCHEMATIC DIAGRAM - 1 (MAIN 1/3 / VM)



SCHEMATIC DIAGRAM - 3 (MAIN 3/3 : TUNER)

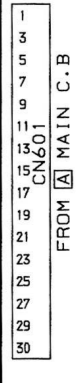
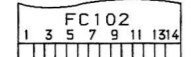
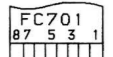
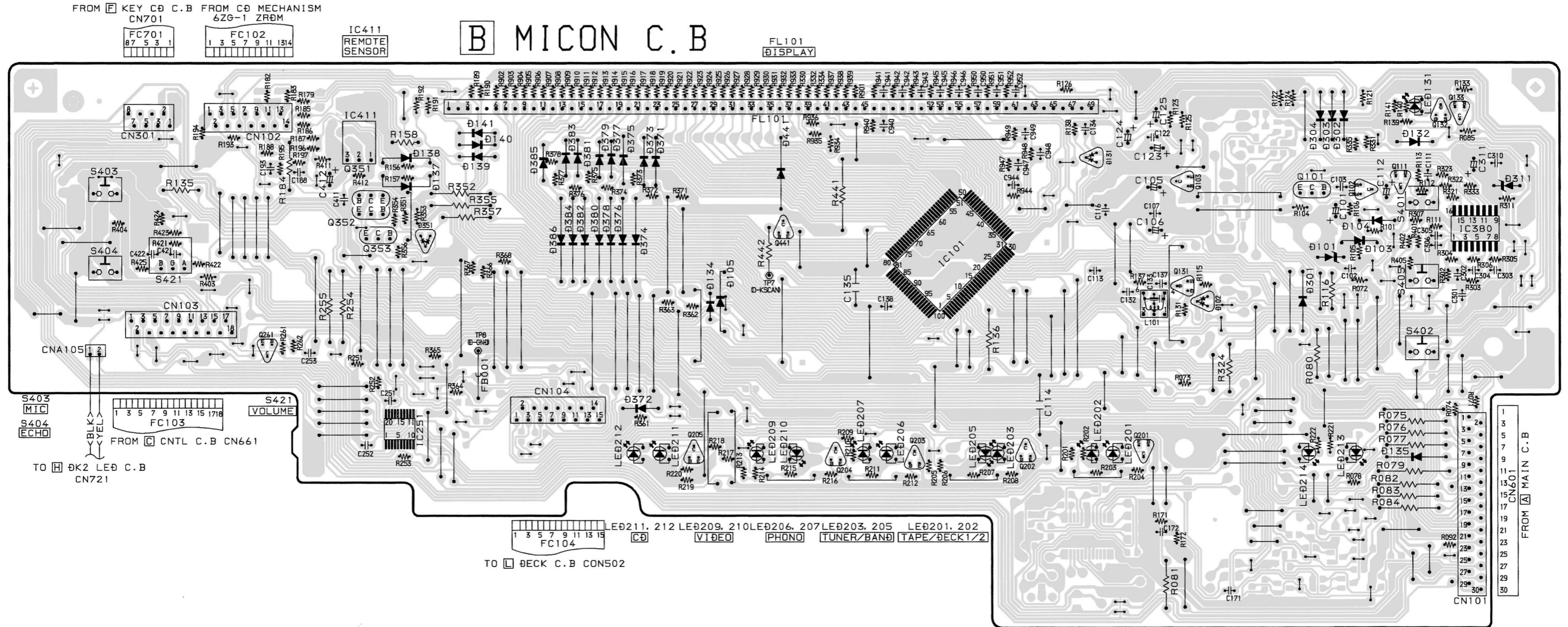


WIRING - 2 (MICON)

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

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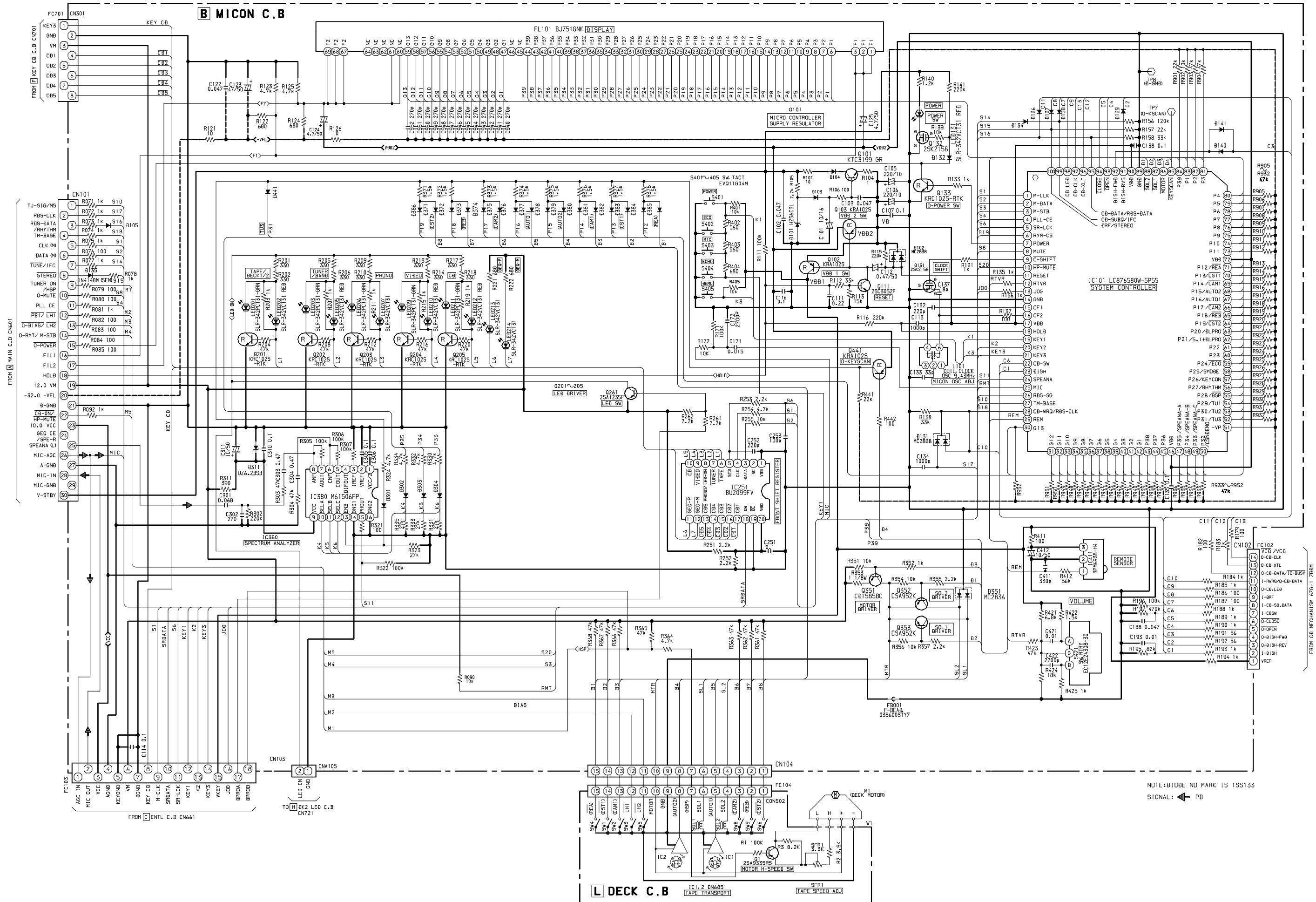
B MICON C.B



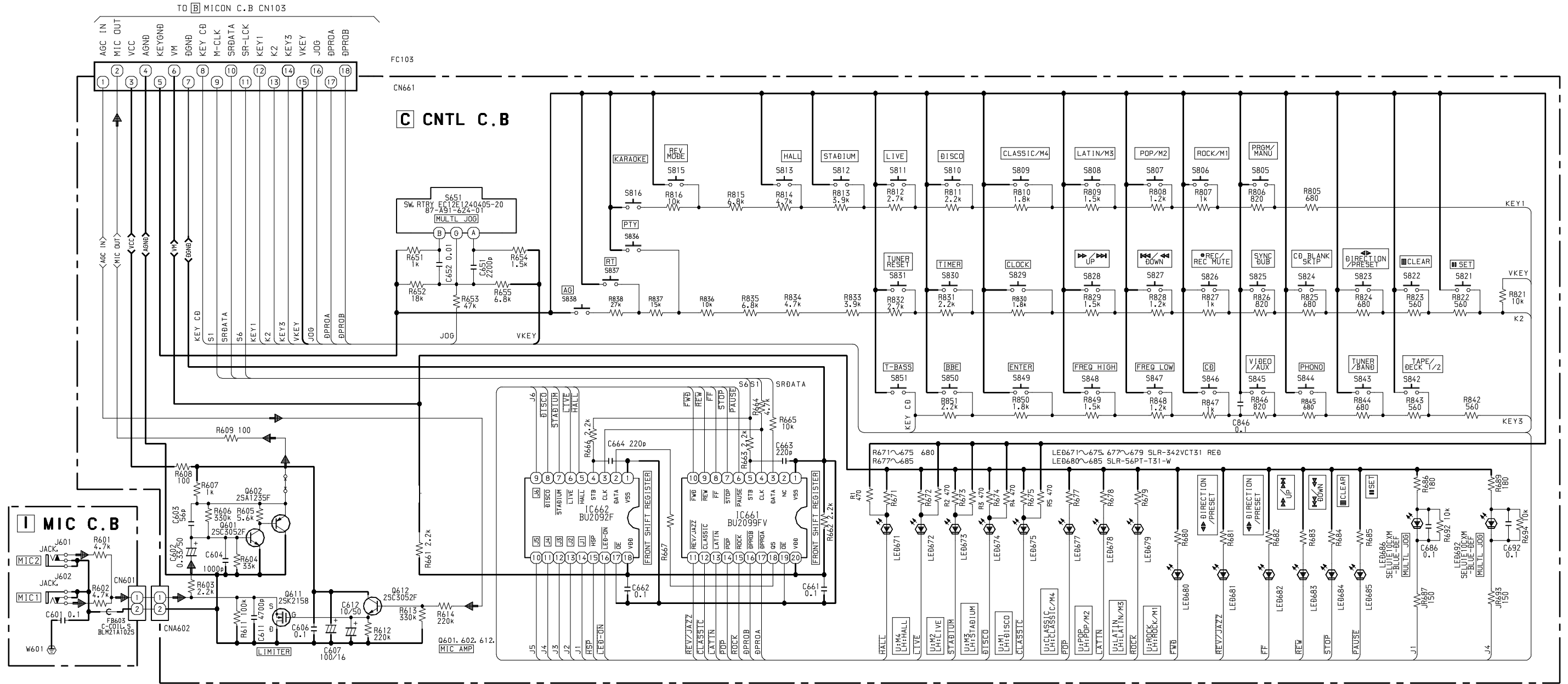
TO **I** DECK C.B CON502
FC104
LED211, 212 LED209, 210 LED206, 207 LED203, 205 LED201, 202
VIDEO PHONO TUNER/BAND TAPE/DECK1/2

LED214 LED213 S401, LED131
GEQ-M GEQ-P POWER
S405 DEMO
S402 ECO

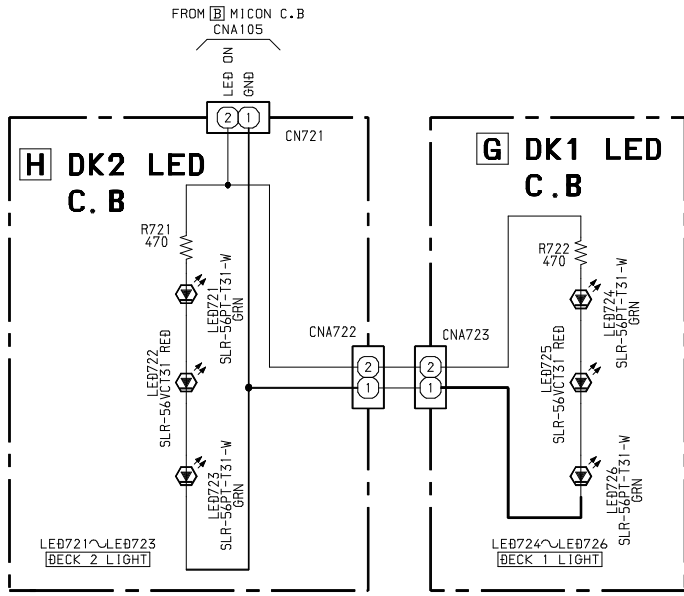
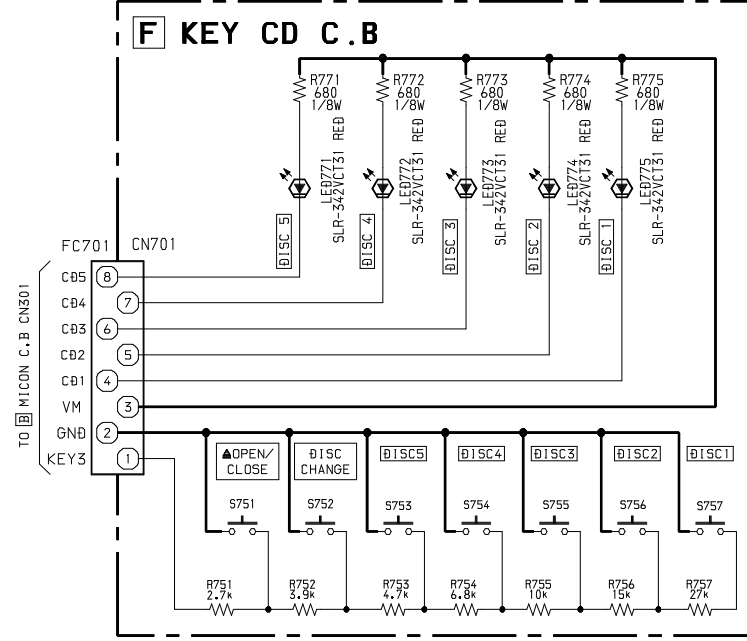
SCHEMATIC DIAGRAM - 4 (MICON / DECK)



SCHEMATIC DIAGRAM - 5 (CNT L / KEY CD / DK1 LED / DK2 LED / MIC)

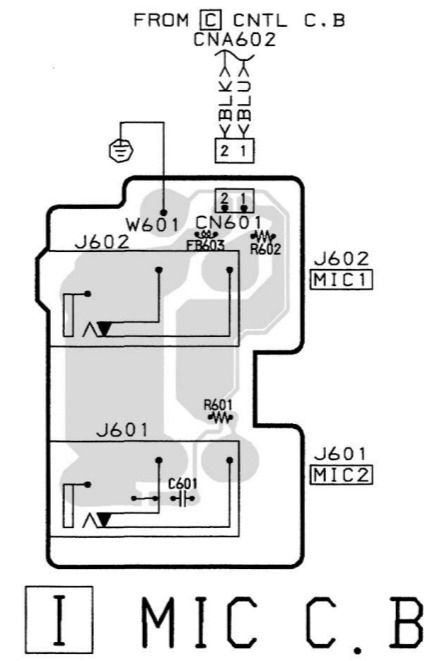
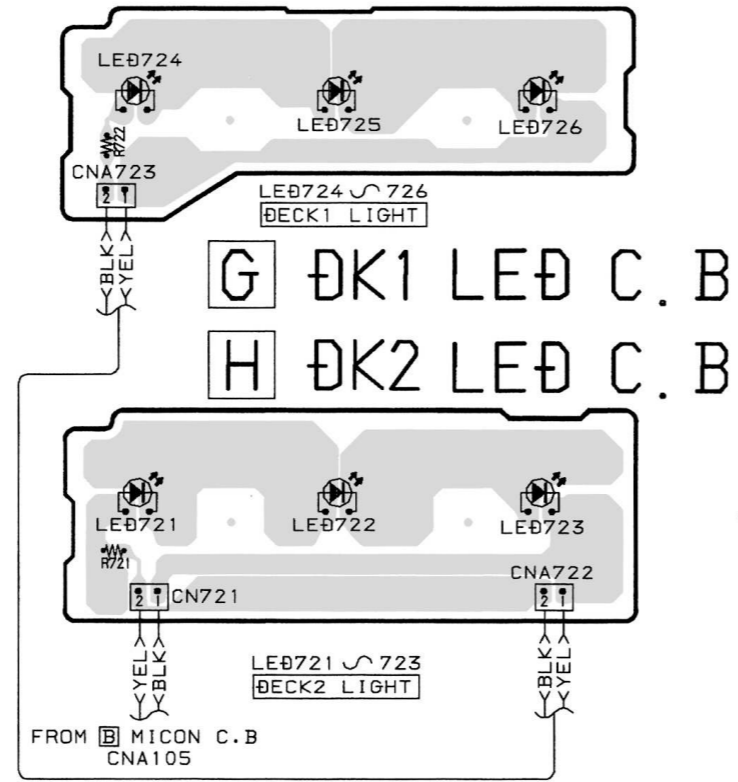
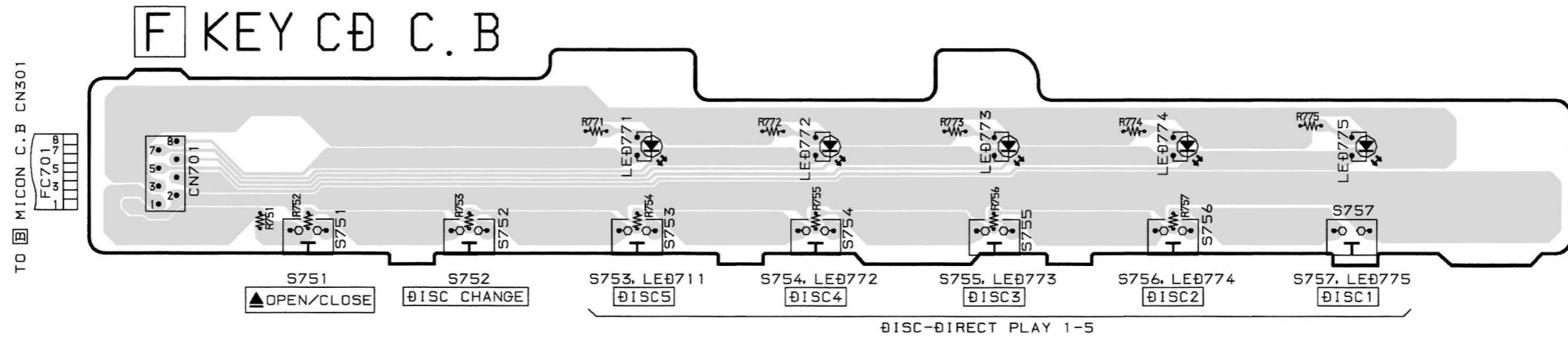


SIGNAL: PB/MIC
NOTE: ALL SWITCHES WITHOUT MARK: EV011G04M

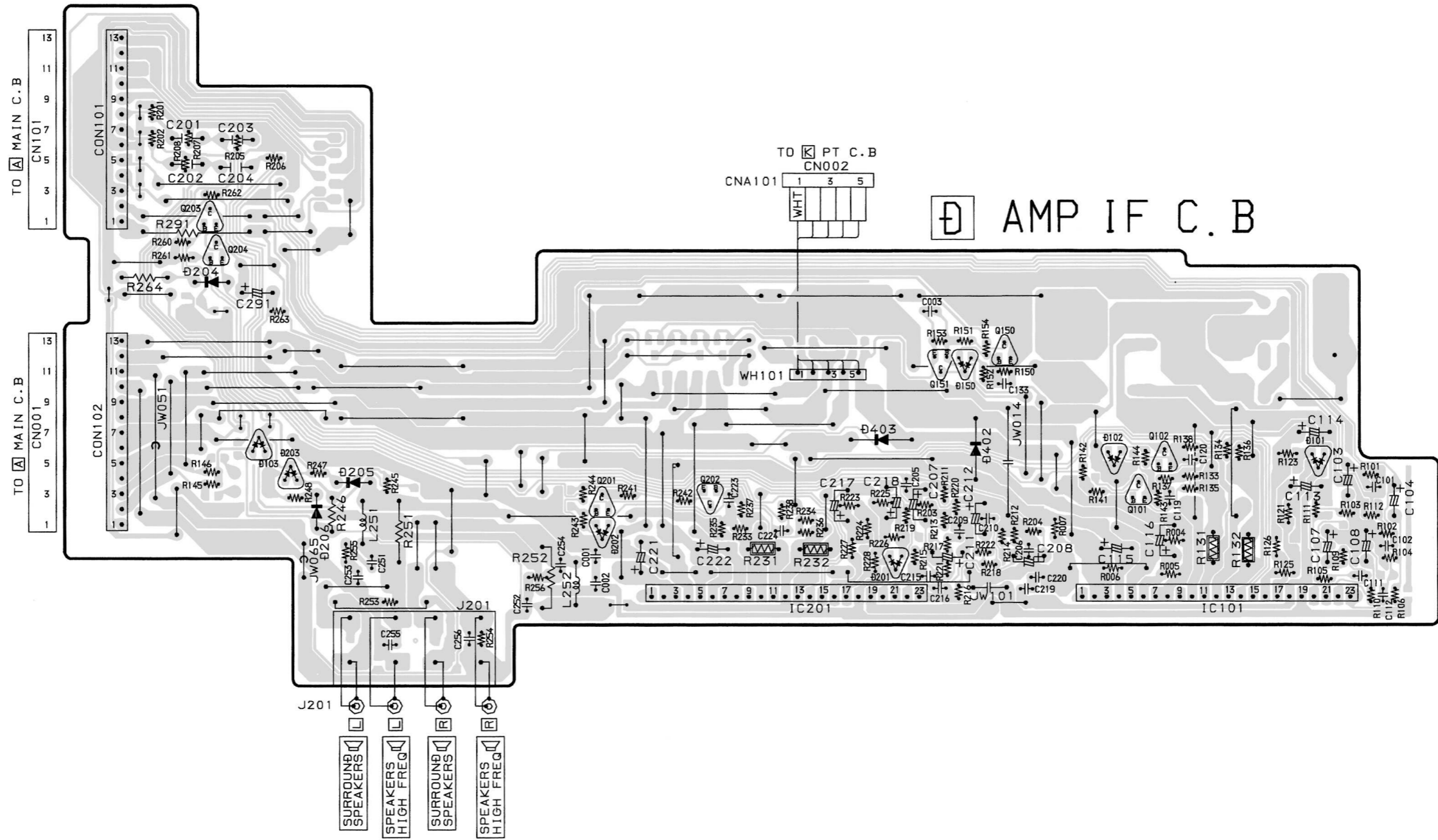


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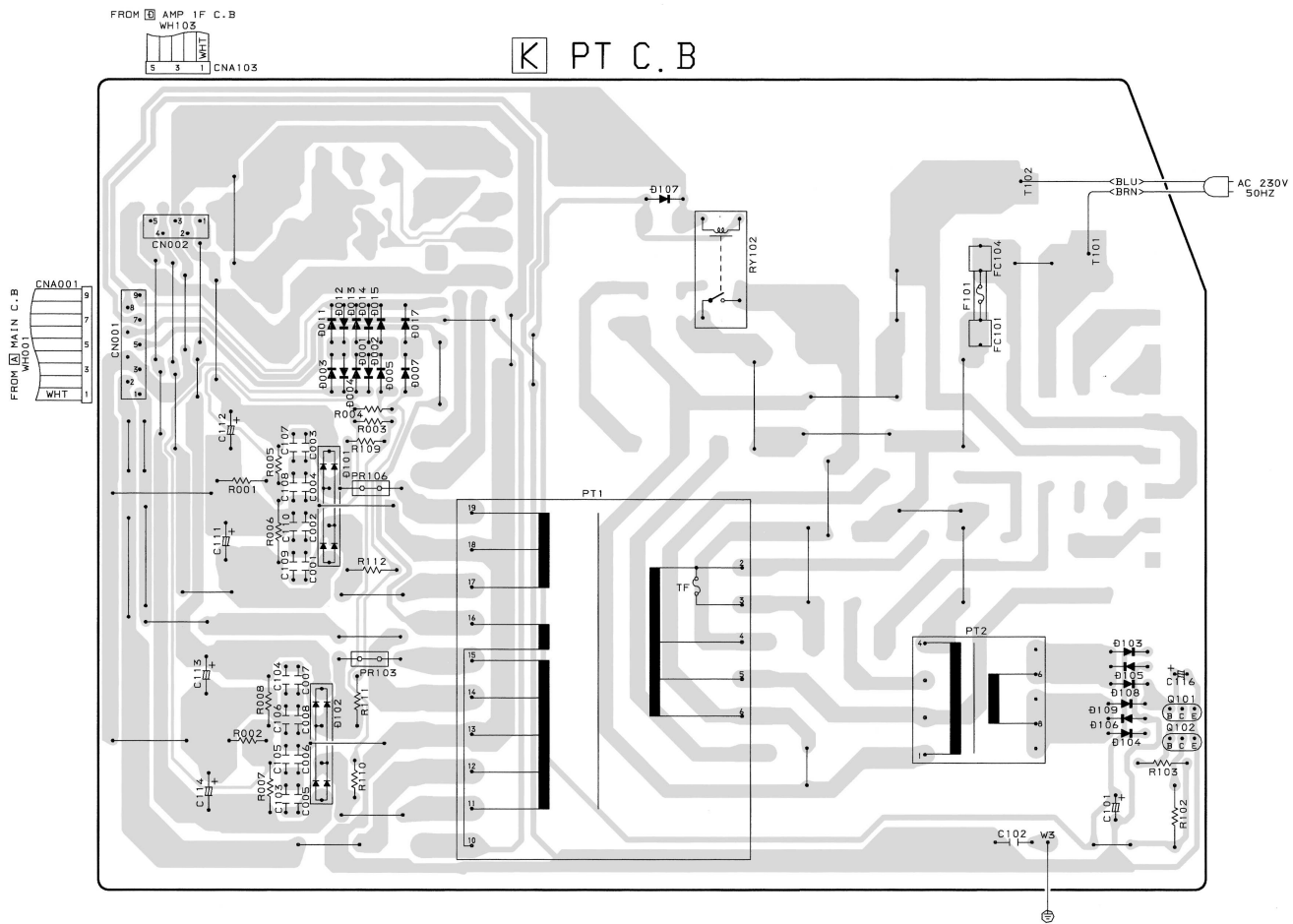
AMP IF C.B

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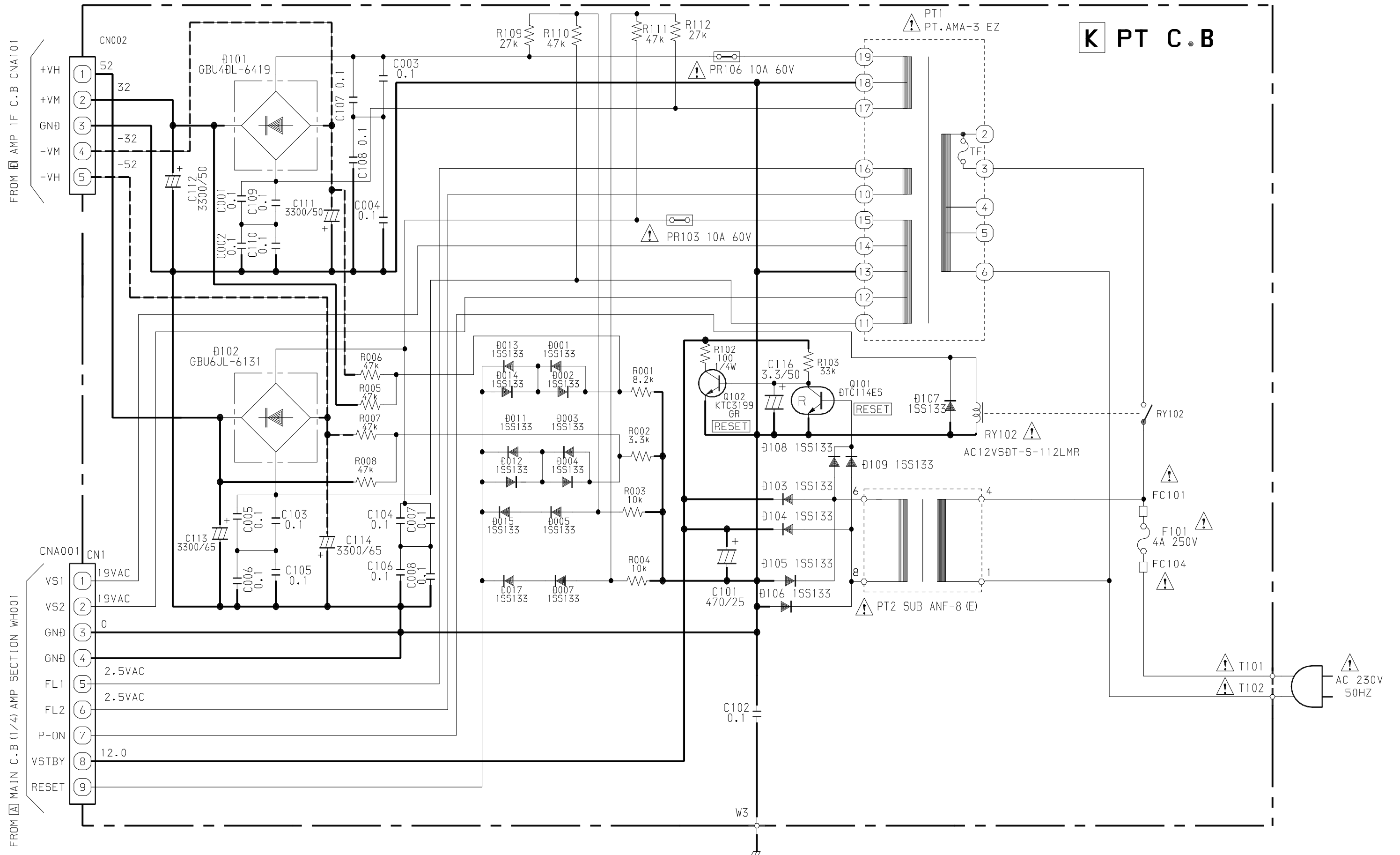
WIRING - 6 (PT)

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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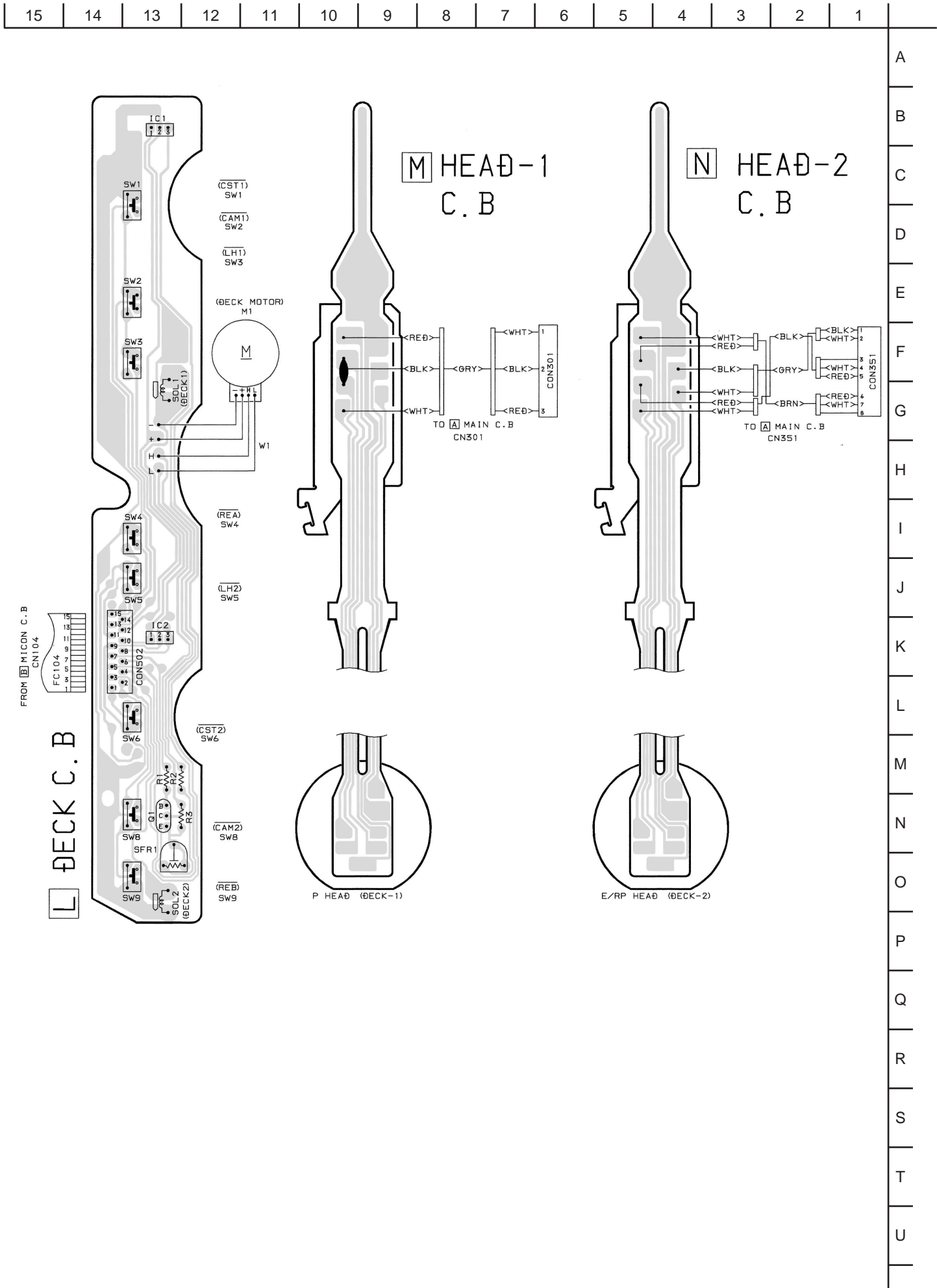


SCHEMATIC DIAGRAM -7 (PT)



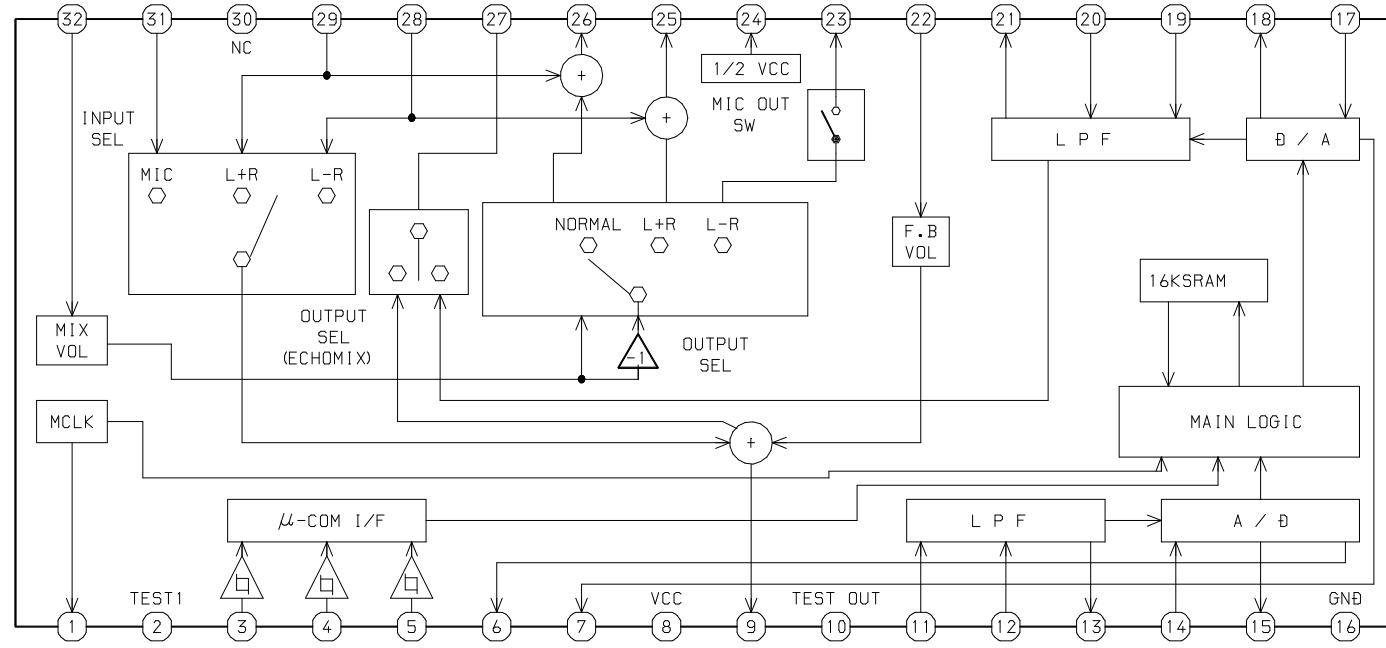
K PT C.B

WIRING - 7 (DECK / HEAD-1 / HEAD-2)

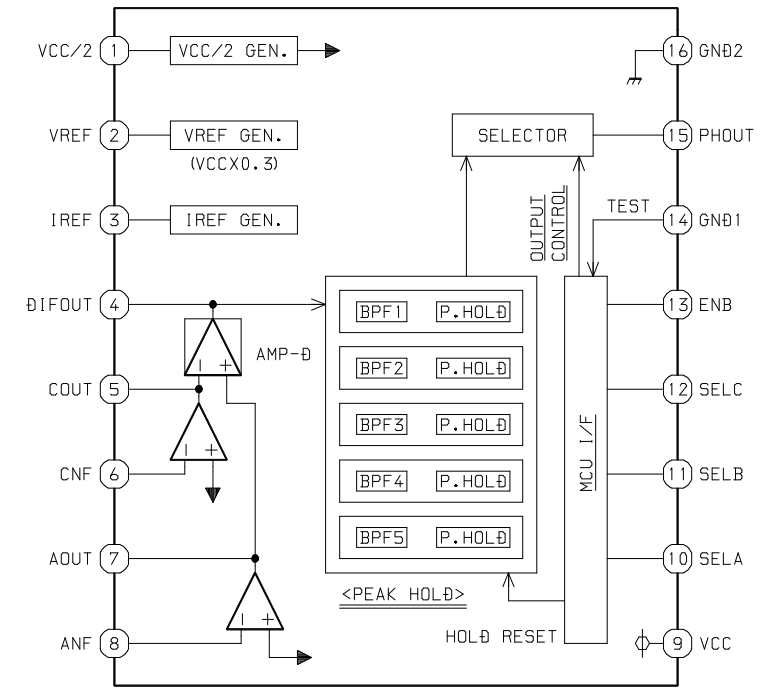


IC BLOCK DIAGRAM

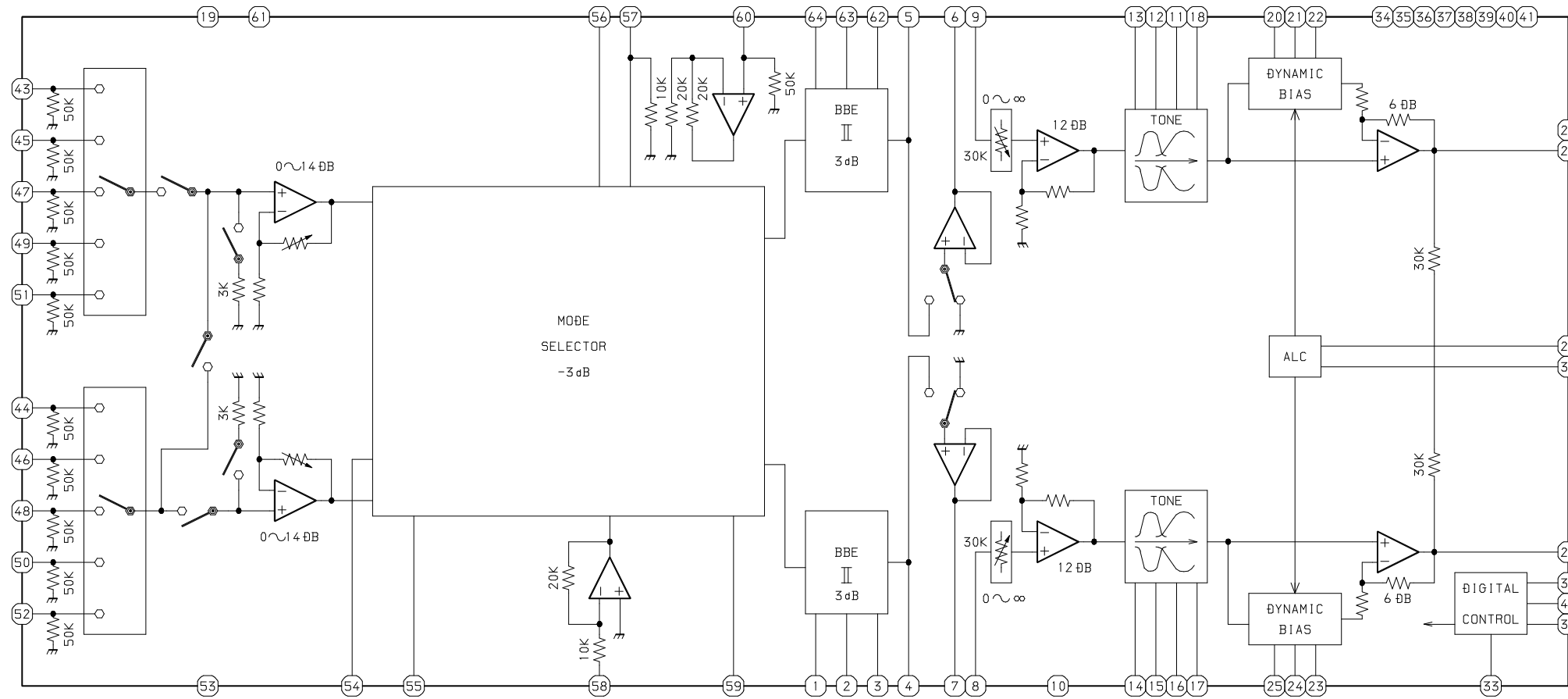
IC, M65849BFP631D



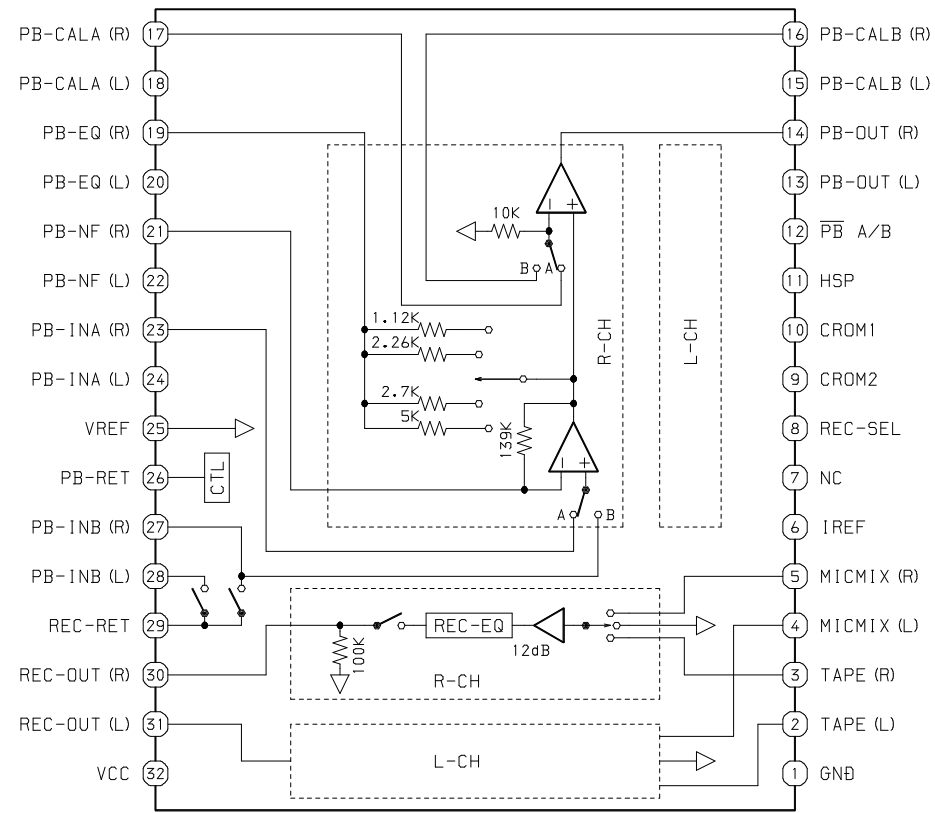
IC, M61506FP



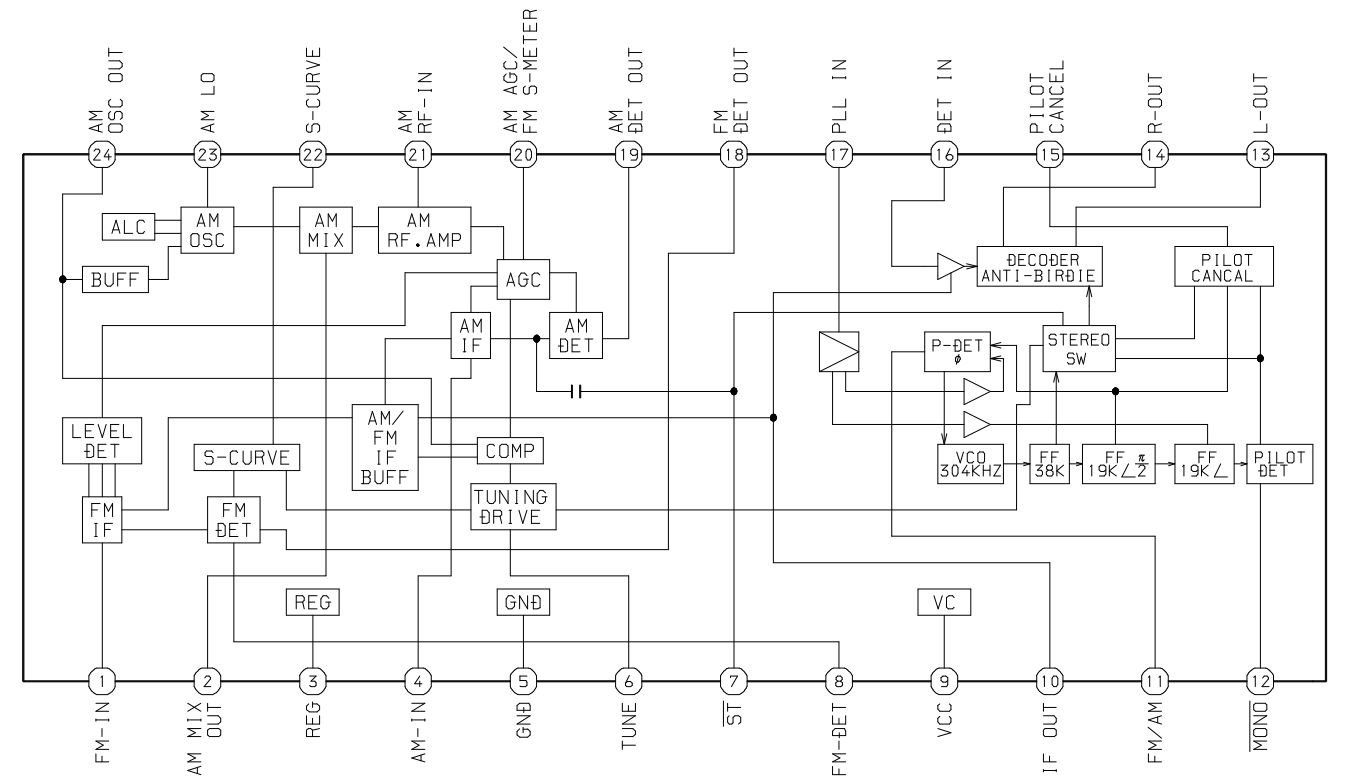
IC, BD3876KS2



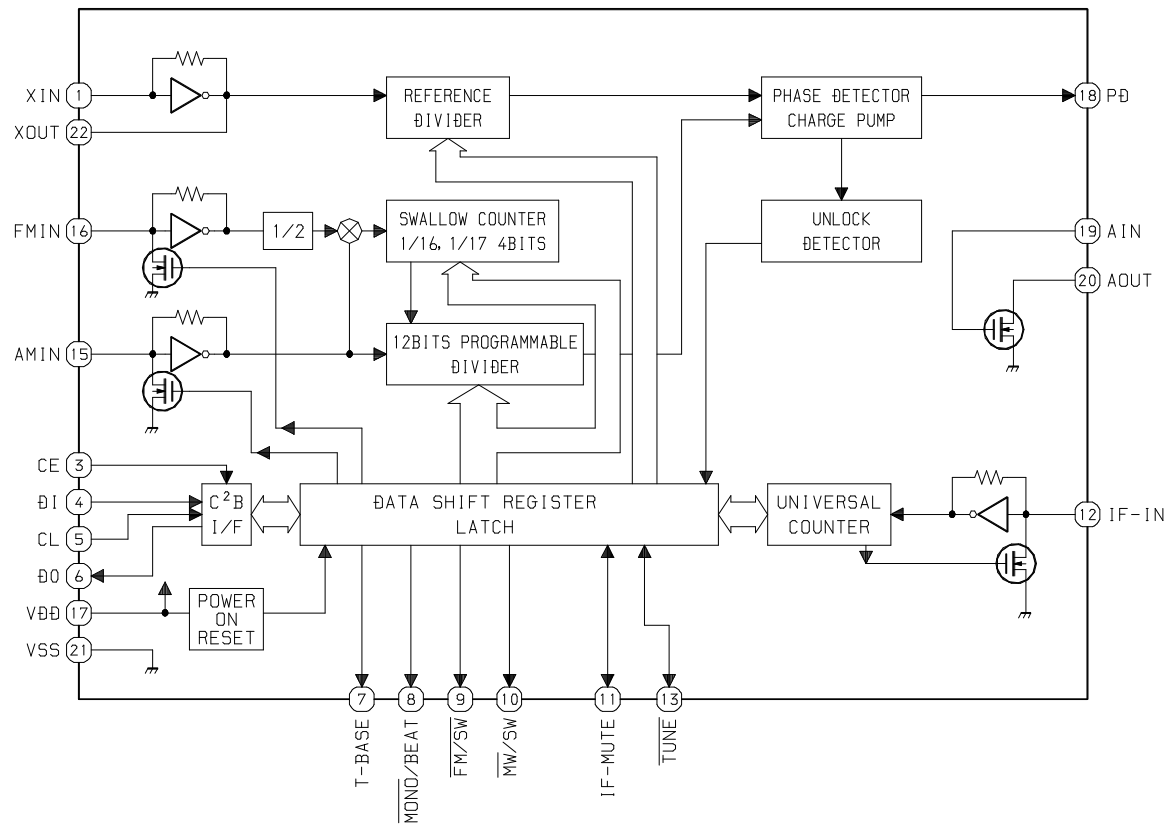
IC, BA7762AFS



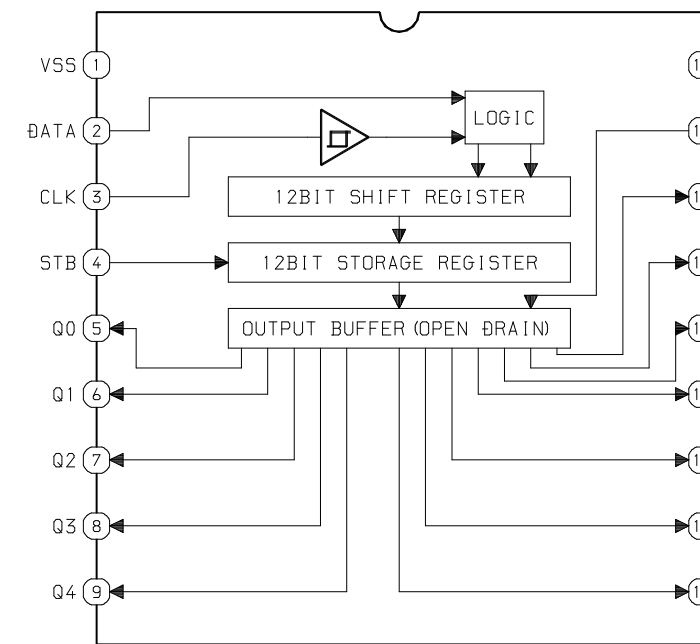
IC, LA1843



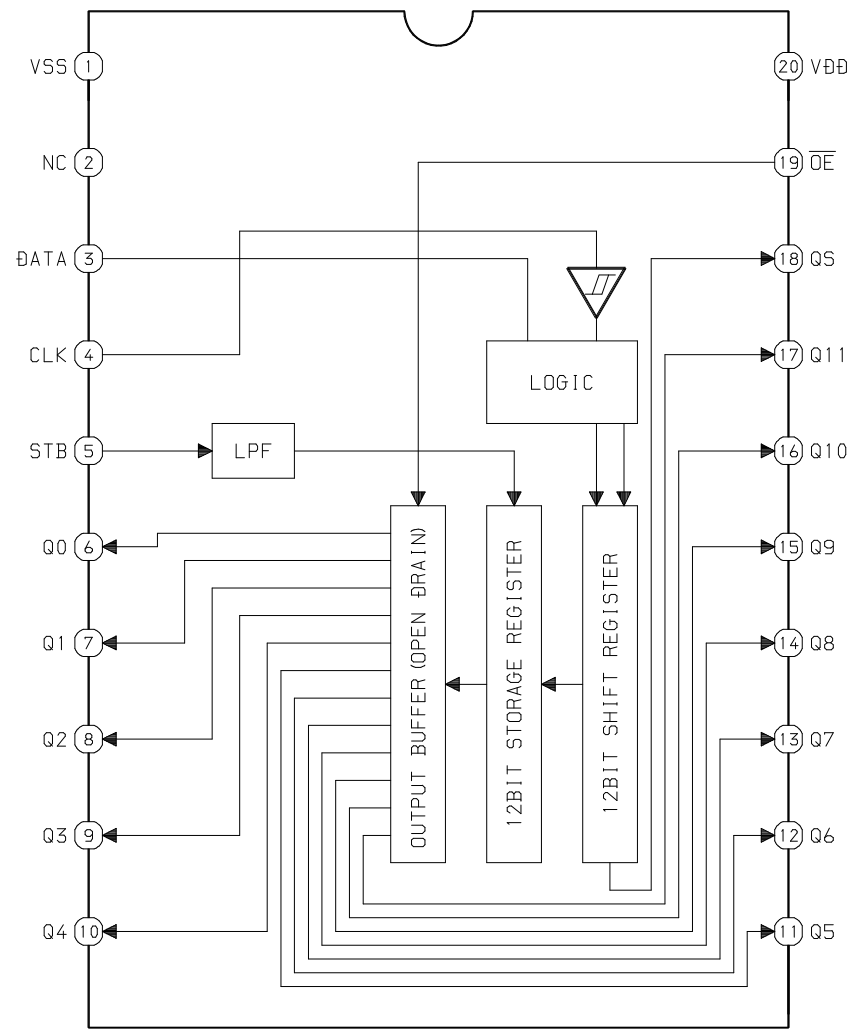
IC, LC72131D



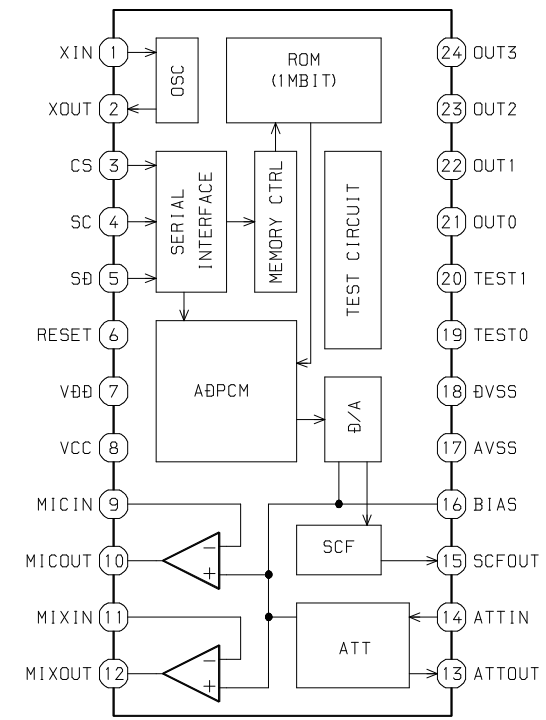
IC, BU2092F



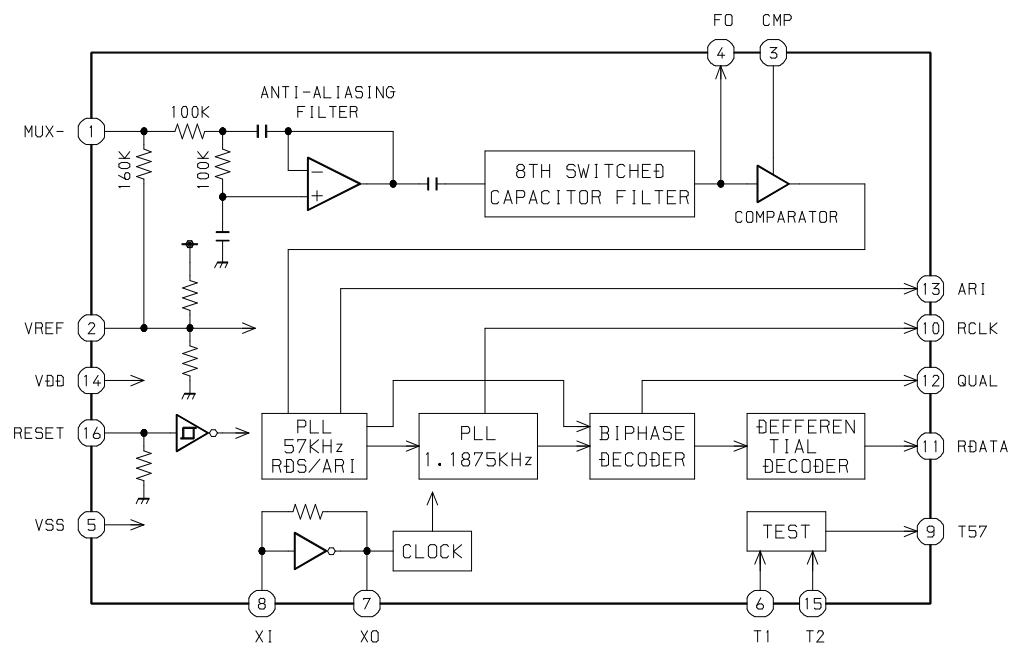
IC, BU2099FV



IC, BU9990-03FS



IC, BU1920FS



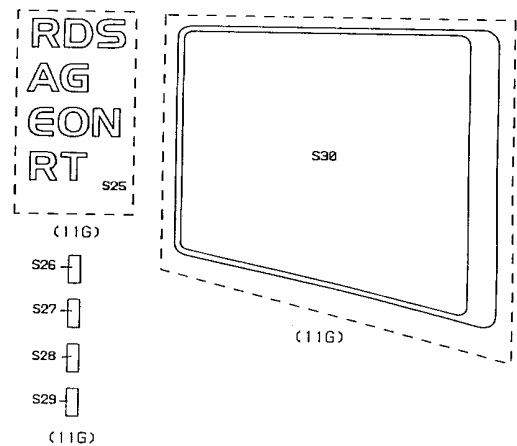
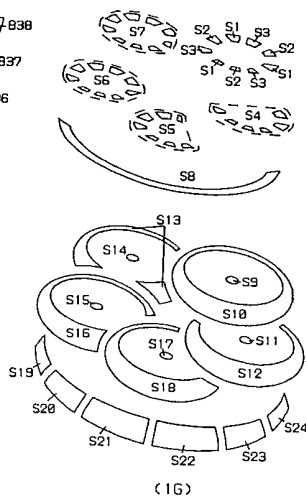
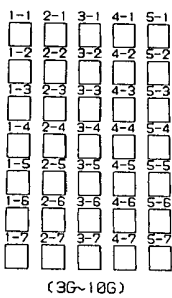
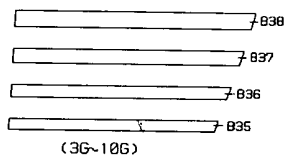
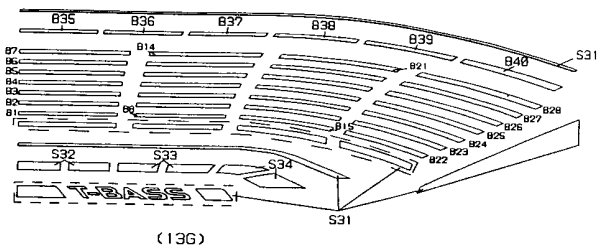
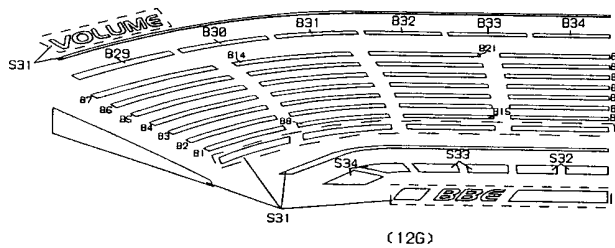
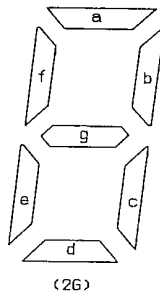
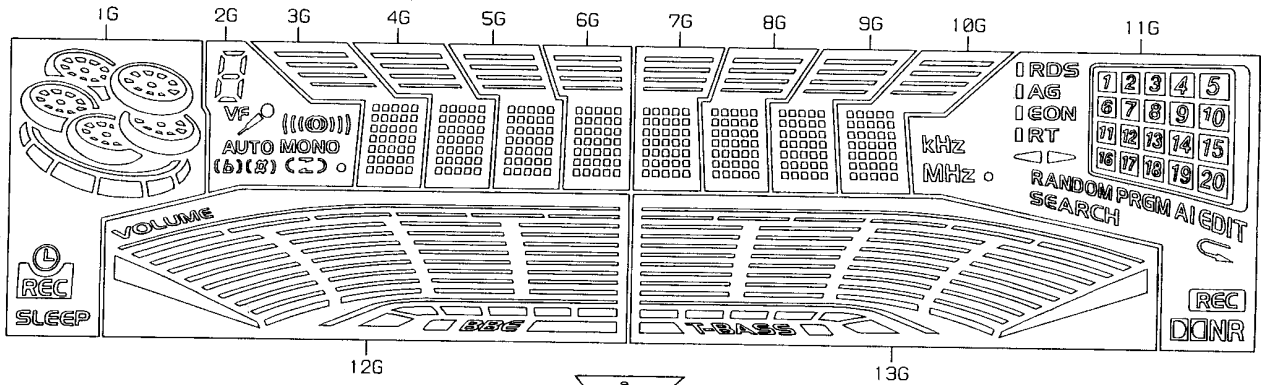
IC DESCRIPTION

IC, LC876580W-5P55

Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	M-STB	O	Common serial strobe.
4	PLL-CE	O	Tuner PLL IC chip enable.
5	SR-LCK	O	Shift register IC LATCH clock.
6	RYM-CS	O	RHYTHM IC chip select.
7	POWER	O	Audio power ON/OFF.
8	MUTE	O	System MUTE ON/OFF.
9	$\overline{\text{C-SHIFT}}$	O	CLOCK SHIFT output. "L" : SHIFT
10	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
11	RESET	I	System RESET input.
12	RTVR	I	Volume rotary encoder.
13	JOG	I	Dial JOG rotary encoder.
14	GND	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD	–	Power supply.
18	HOLD	I	System HOLD input.
19	KEY1	I	Tact key matrix 1 input.
20	KEY2	I	Tact key matrix 2 input.
21	KEY3	I	Tact key matrix 3 input.
22	CD-SW	I	CD MECHA SW matrix input.
23	DISH	I	CD turntable photo sensor.
24	SPEANA	I	Spectrum analyser level detection.
25	MIC	I	MIC input level detection.
26	RDS-SG	I	RDS signal level input.
27	TM-BASE	I	Time base clock input.
28	CD-WRQ/ RDS-CLK	I	CD Read Write Request / Tuner RDS clock input.
29	REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD	–	Power supply.
47	P35/SPEANA–A	O	FL segment P35 output / Spectrum analyser BPF switching control A output.
48	P34/SPEANA–B	O	FL segment P34 output / Spectrum analyser BPF switching control B output.
49	P33/SPEANA–C	O	FL segment P33 output / Spectrum analyser BPF switching control C output.
50	P32/CSNDEMO	O/I	FL segment P32 output / Initial DEMO MODE detect. "H" : CASINO DEMO (Not used).
51	–VP	–	Power supply for FL.
52	P31/TU3	O/I	FL segment P31 output / TUNER series, TU3 select.
53	P30/TU2	O/I	FL segment P30 output / TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output / TUNER series, TU1 select.
55	$\overline{\text{P28/DSP}}$	O/I	FL segment P28 output / DSP function detection. "L" : ON (Not used).

Pin No.	Pin Name	I/O	Description
56	P27/RHYTHM	O/I	FL segment P27 output / RHYTHM function detection. "H" : ON (Not used)
57	P26/KEYCON	O/I	FL segment P26 output / KEYCON function detection. "H" : ON
58	P25/5MODE	O/I	FL segment P25 output / GEQ 5MODE select. "H" : 5 MODE (Not used)
59	P24/ECO	O/I	FL segment P24 output / ECO mode detection. "H" : ECO OFF (Not used)
60	P23	O/I	FL segment P23 output.
61	P22	O/I	FL segment P22 output.
62	P21/5.1+DLPRO	O/I	FL segment P21 output / 5.1CH+PROLOGIC detection. "H" : ON
63	P20/DLPRO	O/I	FL segment P20 output / DOLBY PROLOGIC detection. "H" : ON (Not used)
64	P19/CST2	O/I	FL segment P19 output / Deck 2 cassette detection. "L" : ON
65	P18/REB	O/I	FL segment P18 output / Deck 2 side B recordable SW. "L" : REC
66	P17/CAM2	O/I	FL segment P17 output / Deck 2 CAM SW input. "L" : ON
67	P16/AUTO1	O/I	FL segment P16 output / Deck 1 auto stop input.
68	P15/AUTO2	O/I	FL segment P15 output / Deck 2 auto stop input.
69	P14/CAM1	O/I	FL segment P14 output / Deck 1 CAM SW input. "L" : ON
70	P13/CST1	O/I	FL segment P13 output / Deck 1 cassette detection SW. "L" : ON
71	P12/REA	O/I	FL segment P12 output / Deck 2 side-A recordable SW. "L" : REC
72	VDD	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	KEYSCAN	O	KEYSCAN output. "L" : ON
86	MOTOR	O	DECK motor ON/OFF control. "L" : ON
87	SOL1	O	DECK 1 solenoid control. "L" : ON
88	SOL2	O	DECK 2 solenoid control. "L" : ON
89	GND	–	Connected to GND.
90	VDD	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. "H" : REV
92	DISH-FWD	O	CD dish forward output. "H" : FWD
93	OPEN	O	CD tray OPEN output. "L" : OPEN
94	CLOSE	O	CD tray CLOSE output. "L" : CLOSE
95	CD-DATA/ RDS DATA	O/I	Serial data output to CD. RDS serial data input.
96	CD-XLT	O	CD DSP serial LATCH output. (Chip enable)
97	CD-CLK	O	CD DSP serial CLOCK output.
98	CD-LED	O	CD flash window LED control.
99	CD-SUBQ/IFC	I	CD SUBQ (Sub code) serial data input / TUNER IF COUNT data input.
100	DRF/STEREO	I	RF (radio frequency) detect / TUNER STEREO signal input.

FL (BJ751GNK) GRID ASSIGNMENT AND ANODE CONNECTION GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	SLEEP	-	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S30	S31	S31
P2	REC	-	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	1	S32	S32
P3	⌚	-	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2	S33	S33
P4	S1	-	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3	S34	S34
P5	S2	-	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	4	B1	B1
P6	S3	-	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	5	B8	B8
P7	S9	-	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	6	B15	B15
P8	S10	-	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	7	B22	B22
P9	S7	-	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	8	B2	B2
P10	S14	-	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	9	B9	B9
P11	S13	a	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	10	B16	B16
P12	S11	b	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	11	B23	B23
P13	S4	f	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	12	B3	B3
P14	S12	g	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	13	B10	B10
P15	S6	c	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	14	B17	B17
P16	S15	e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	15	B24	B24
P17	S16	d	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	16	B4	B4
P18	S5	VF	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	17	B11	B11
P19	S17	🔍	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	18	B18	B18
P20	S18	((()))	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	19	B25	B25
P21	S8	AUTO	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	20	B5	B5
P22	S19	MONO	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	S25	B12	B12
P23	S20	(b)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	S26	B19	B19
P24	S21	(#)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	S27	B26	B26
P25	S22	⌋	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S28	B6	B6
P26	S23	⌋	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S29	B13	B13
P27	S24	⌋	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	▷	B20	B20
P28	-	○	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	▷	B27	B27
P29	-	-	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	DXNR	B7	B7
P30	-	-	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	REC	B14	B14
P31	-	-	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	⌋	B21	B21
P32	-	-	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	EDIT	B28	B28
P33	-	-	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	AI	B29	B35
P34	-	-	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PRGM	B30	B36
P35	-	-	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	RANDOM	B31	B37
P36	-	-	B38	B38	B38	B38	B38	B38	B38	B38	SEARCH	B32	B38
P37	-	-	B37	B37	B37	B37	B37	B37	B37	B37	○	B33	B39
P38	-	-	B36	B36	B36	B36	B36	B36	B36	B36	MHz	B34	B40
P39	-	-	B35	B35	B35	B35	B35	B35	B35	B35	KHz	-	-

ADJUSTMENT <TUNER / DECK / MICON>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to MW 160kHz and check that the test point is 2052kHz \pm 45Hz.
2. MW VT Check
Settings : • Test point : TP1 (VT)
Method : Set to MW 160kHz 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 : TP5 (Lch), TP6 (Rch)
• Adjustment location : L951 (1/3)
Method : Set to MW 999kHz and adjust L951 (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 1.5V \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 : TP5 (Lch), TP6 (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 : TP5 (Lch), TP6 (Rch)
• Adjustment location :
L802 450kHz
7. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.
8. FM Tracking Check
Settings : • Test point : TP5 (Lch), TP6 (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)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the distortion is minimum. Then check the voltage between TP3 and TP4 is 0V \pm 300mV.
10. Output Level Check
<MW>
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Input level : 74dB μ V
Method : Set to MW 999kHz and check that the test point is 80mV \pm 3dB.

<FM>
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and check that the test point is 315mV \pm 3dB.
11. FM Separation Check
Settings : • Test point : TP5 (Lch), TP6 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and check that the test point is more than 12dB.

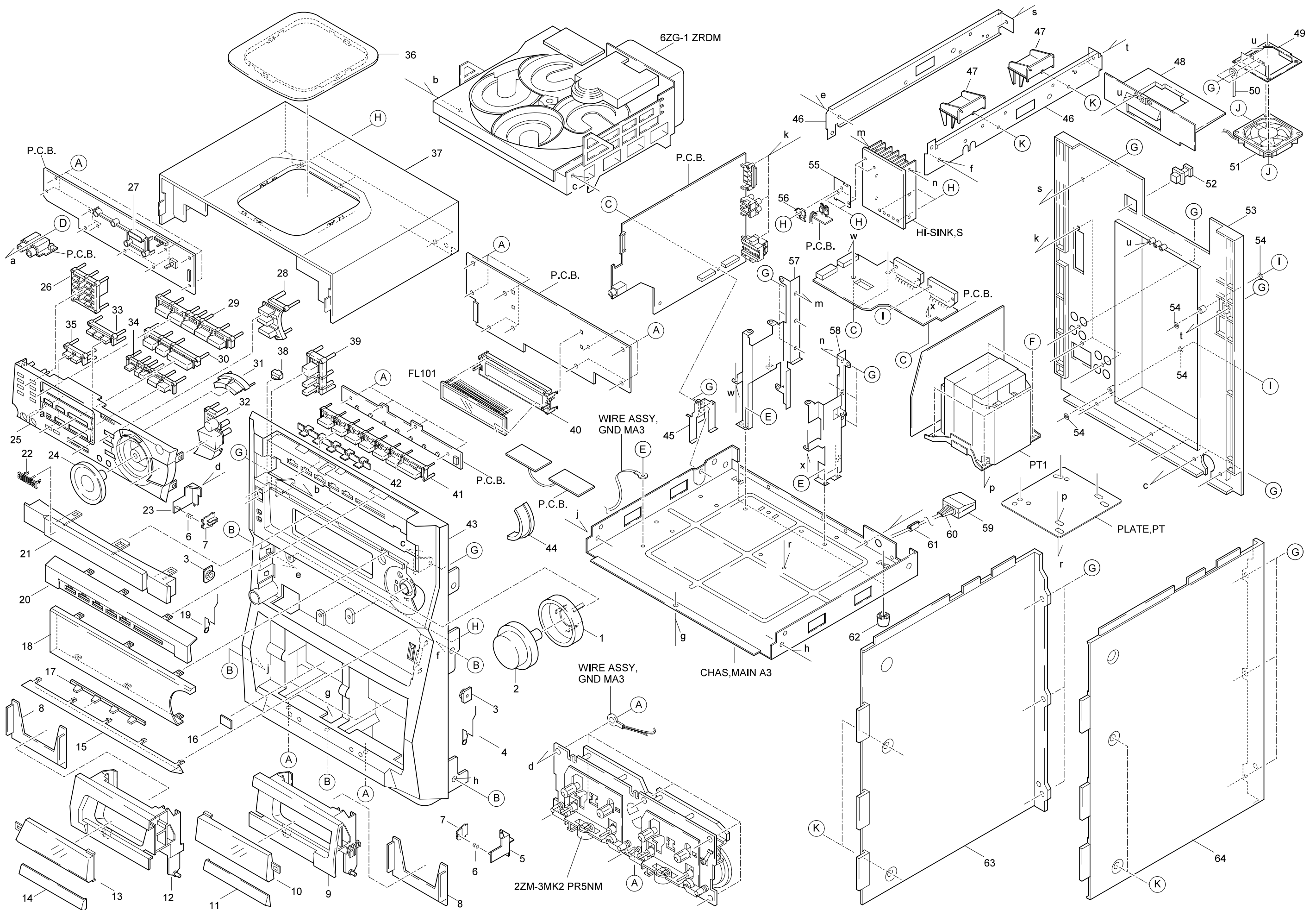
< DECK SECTION >

12. Tape Speed Adjustment (DECK 2)
Settings : • Test tape : TTA-100
• Test point : TP5(Lch), TP6(Rch)
• Adjustment location : SFR1
Method : Play back 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.
13. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP5(Lch), TP6(Rch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
Next, perform on REV PLAY mode.
14. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP5(Lch), TP6(Rch)
Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.
15. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP5(Lch), TP6(Rch)
Method : Play back the test tape and check that the output level of the test point is $230\text{mV} \pm 3\text{dB}$.

16. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5(Lch), TP6(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 TP5, TP6 becomes -20VU (16mV). 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.
17. REC/PB Sensitivity Check (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5(Lch), TP6(Rch)
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 0VU (160mV). Record and play back the 1kHz signals and check that the output is $0\text{dB} \pm 3.5\text{dB}$.

< MICON SECTION >

18. μ -CON OSC Adjustment
Settings : • Test point : TP7 (O-KSCAN)
• Adjustment location : L101
Method : Insert AC plug while pressing POWER and TUNER function key. Adjust L101 so that the frequency at the test point is $208.80\text{Hz} \pm 0.21\text{Hz}$.



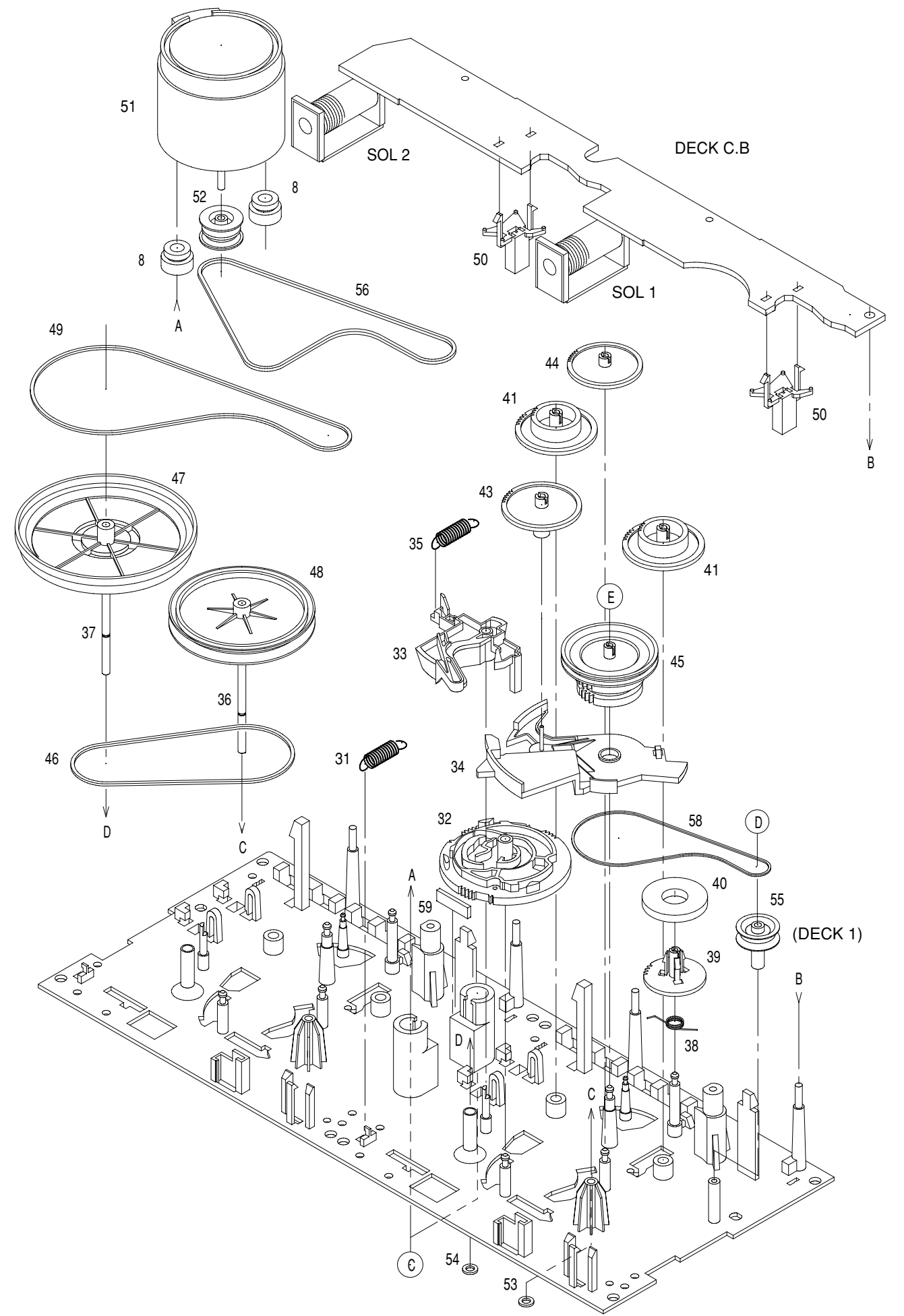
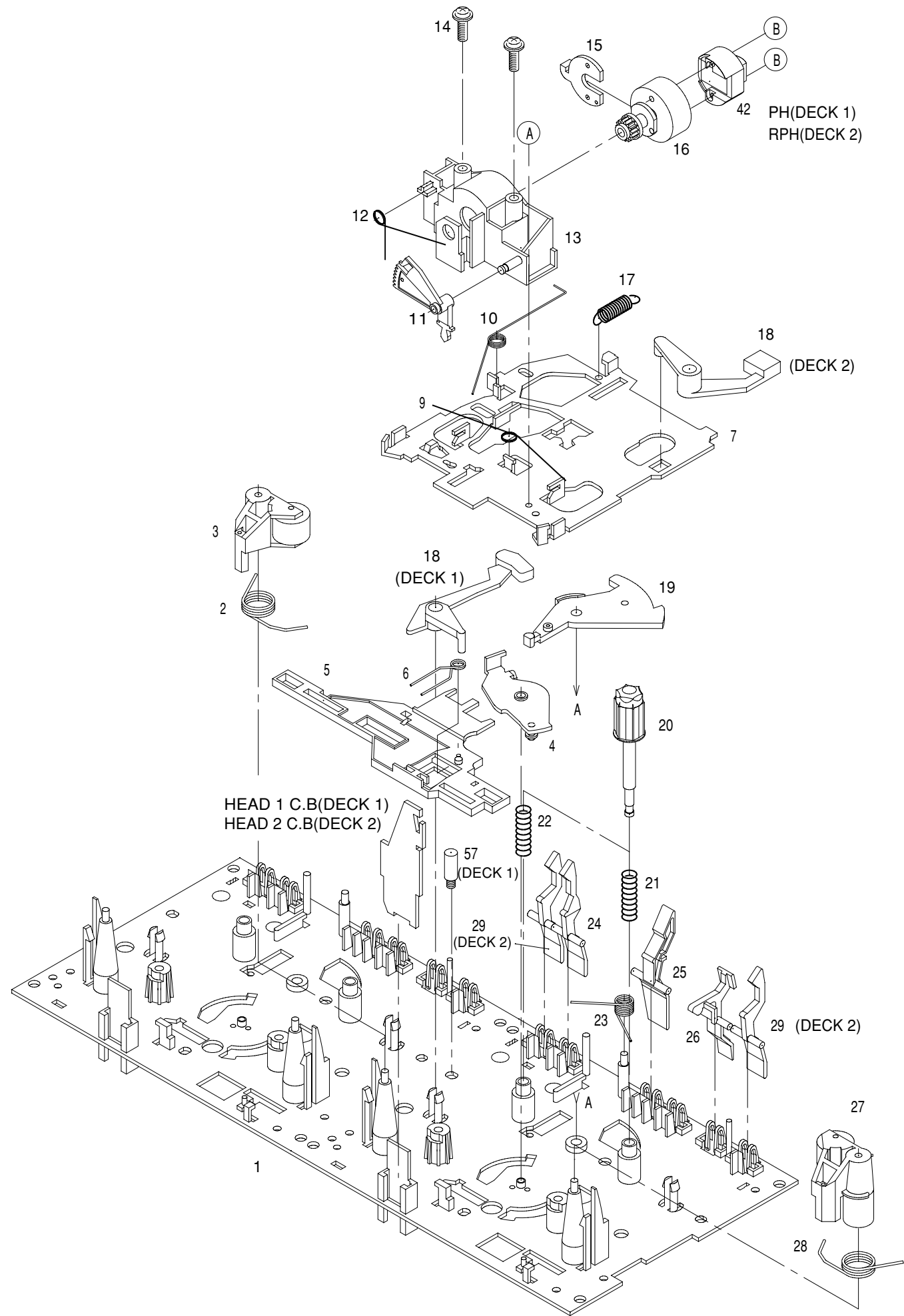
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-094-010		RING, MAIN	41	8A-MA3-061-010		KEY, CD
2	8A-MA3-090-110		KNOB, RTRY MAIN	42	8A-MA3-100-010		REFLECTOR, CD
3	87-NF8-220-110		DMPR, 150	43	8A-MA3-001-010		CABI, FR U 3
4	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	44	8A-MA3-062-010		KEY, MIC
5	87-NF4-217-110		HLDR, LOCK 2	45	8A-MA3-207-010		HLDR, PWB MAIN H
6	86-NF9-224-010		SPR-C, LOCK	46	88-MA1-208-210		JOINT, CABI
7	82-NF5-229-010		PLATE, LOCK	47	8A-MA3-212-010		HLDR, PWB PT
8	86-NF6-061-010		REFLECTOR, CASS	48	8A-MA3-211-010		COVER, FAN
9	8A-MA3-026-110		BOX, CASS R	49	8A-NF3-223-010		HLDR, FAN
10	8A-MA3-056-010		WINDOW, CASS R	50	87-064-185-010		HLDR, WIRE
11	8A-MA3-036-010		PANEL, CASS R 3	51	87-A91-711-010		FAN, 3110GL-B 4W-B34-H
12	8A-MA3-025-110		BOX, CASS L	52	84-ZG1-245-210		CAP, OPTICAL
13	8A-MA3-055-010		WINDOW, CASS L	53	8A-MA3-013-010		CABI, REAR KSTNM
14	8A-MA3-035-010		PANEL, CASS L 3	54	8A-MA3-214-010		W, 3.5-6.5-1 W/ADH
15	8A-MA3-041-010		PANEL, FUN 5F	55	8A-MA3-213-010		PLATE, TR
16	81-532-080-010		LABEL, CASS. COMPT	56	86-NF6-211-010		HLDR, IC T1.6
17	8A-MA3-102-010		REFLECTOR, FUN 5F	57	8A-MA3-205-110		HLDR, HT-SINK L
18	8A-MA3-050-010		WINDOW, DISP	58	8A-MA3-206-010		HLDR, HT-SINK R
19	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	△ 59	87-099-811-010		PLUG ADPTR CONV (K) <K>
20	8A-MA3-034-010		PANEL, CD LED	△ 60	87-A80-148-010		AC CORD ASSY, E BLK<EZ>
21	8A-MA3-037-010		PANEL ASSY, TRAY 3	△ 60	87-A80-143-010		AC CORD ASSY, E BLK<K>
22	87-B00-002-010		BADGE AIWA 30 ABS S1	61	87-085-185-010		BUSHING, AC CORD (E)
23	87-NF4-216-010		HLDR, LOCK 1	62	87-MA3-062-010		FOOT, H17
24	8A-MA3-093-010		KNOB ASSY, RTRY JOG	63	8A-MA3-045-010		PANEL, SIDE L 3
25	8A-MA3-032-010		PANEL, FR RDS 3	64	8A-MA3-046-010		PANEL, SIDE R 3
26	8A-MA3-080-010		KEY ASSY, GEQ 4M PM	A	87-078-060-010		BVIT3PB+3-10
27	8A-MA3-210-010		GUIDE, LED OPE	B	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
28	8A-MA3-071-010		KEY, TIMER	C	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
29	8A-MA3-066-010		KEY, FUN 5F	D	81-MK1-210-010		S-SCREW, VFT2+3-16
30	8A-MA3-083-010		KEY ASSY, DIR	E	87-067-688-010		BVTT+3-6
31	8A-MA3-072-010		KEY, FREQ	F	87-067-975-010		S-SCREW, 1T+4-8
32	8A-MA3-073-010		KEY, ENTER	G	87-067-703-010		TAPPING SCREW, BVT2+3-10
33	8A-MA3-070-010		KEY, RDS	H	87-067-758-010		BVT2+3-12 W/O SLOT
34	8A-MA3-084-010		KEY ASSY, FF	I	87-067-581-010		S-SCREW, BVT2+3-15 W/O
35	8A-MA3-069-010		KEY, KARAOKE	J	87-067-579-010		TAPPING SCREW, BVT2+3-8
36	8A-MA3-057-010		WINDOW, TOP	K	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
37	8A-MA3-020-110		CABI, TOP				
38	8A-MA3-101-010		REFLECTOR, POWER				
39	8A-MA3-075-010		KEY, POWER				
40	88-MA1-205-010		GUIDE, FL				

COLOR NAME TABLE

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

TAPE MECHANISM EXPLODED VIEW 1 / 1



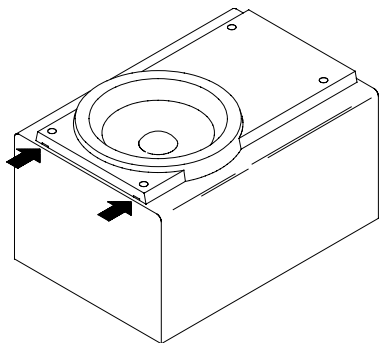
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	36	82-ZM1-236-019		CAPSTAN N 2-41.5
2	82-ZM1-258-110		SPR-T,PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-019		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-219		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-019		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-366-010		HEAD,PH YK50P-BF414 FPC
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-367-010		HEAD,RPH YK56R-BF414 FPC
9	82-ZM1-269-219		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-119		SPR-T,LINK	44	82-ZM1-226-019		GEAR,REW
11	82-ZM1-210-119		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-019		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-619		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
15	82-ZM1-314-119		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
17	82-ZM1-218-019		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70(M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-319		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3 (DECK 1)
23	82-ZM1-257-019		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-319		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
25	82-ZM1-242-019		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-019		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-319		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-119		SPR-E,TRIG				

SPEAKER DISASSEMBLY INSTRUCTIONS

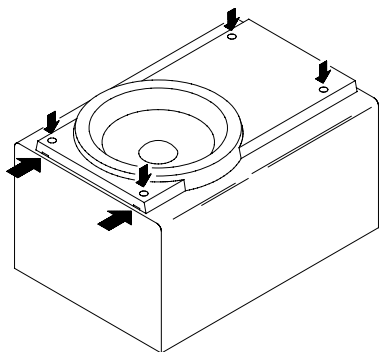
Type.1

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



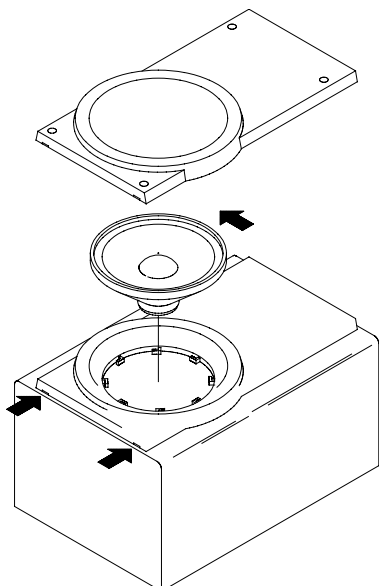
Type.2

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

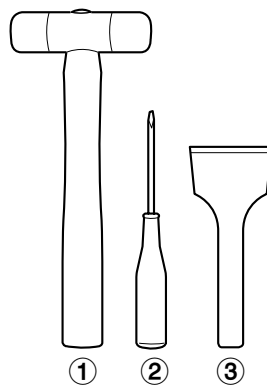


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-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.

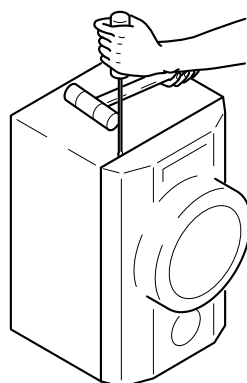


Fig-1

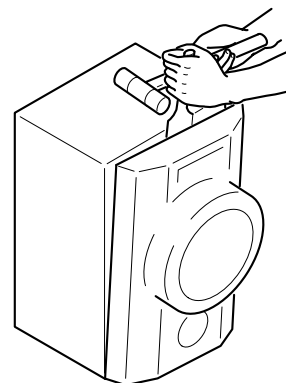


Fig-2

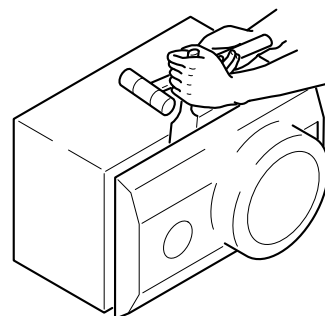


Fig-3

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-WZL700 (YSL)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MS3-001-010		PANEL, FR
2	8A-MS3-002-010		PANEL, TW
3	8A-MS3-003-010		PANEL, BA
4	8A-MS3-004-010		PLATE, NAME
5	8A-MS3-006-010		GRILLE, FRAME ASSY
6	8A-MS3-010-010		PROTECTOR
7	8A-MS3-013-010		PANEL, BA B
8	8A-MS3-603-010		SPKR, M 120
9	88-MS1-608-010		SPKR, CERAMIC
10	88-NS5-611-010		CORD, SPKR B/L
11	88-MS1-610-010		CORD, SPKR
12	8Z-MS1-601-010		SPKR, W200
13	8A-MS4-010-010		BADGE, AIWA

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-905-010		IB, K (E) M<K>
1	8A-MA3-906-010		IB, EZ (9L) M<EZ>
2	87-A90-118-010		ANT, WIRE FM (Z)
3	87-A90-030-010		ANT, LOOP AM-NC C
4	8Z-MA1-702-010		RC UNIT, ZAS12

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