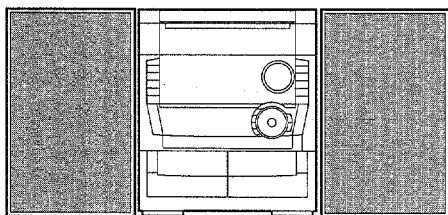


aiwa



NSX-F958 NSX-F959 NSX-F969



CD STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4
- BASIC CD MECHANISM : 6ZG-1 S2DSH

- TYPE : HR,LH

SYSTEM	CD - CASSEIVER	SPEAKER
NSX-F958 NSX-F959 (TYPE : HR)	CX-NF958 CX-NF959	SX-WNF958 SX-WNF959
NSX-F969 (TYPE : LH)	CX-NF969	SX-WNF959

- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, S/M Code No. 09-984-249-90T.
- This Service manual contains information about the difference between NSX-F969<LH> and NSX-F959<LH>. If requiring the other information, see Service Manual of NSX-A959/F959 <U,LH>, S/M Code No. 09-984-223-5FP.

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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

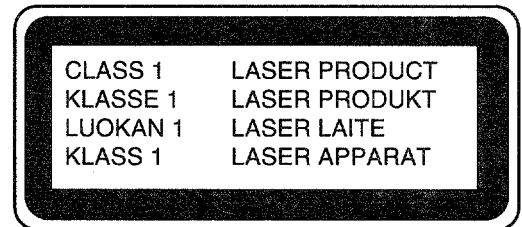
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

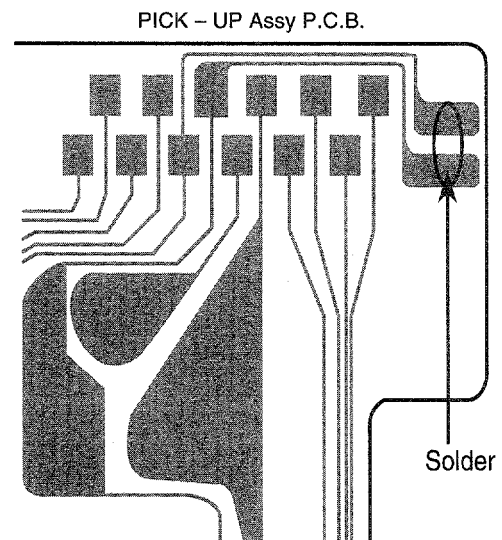


Precaution to replace Optical block

(KSS-213F)

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

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



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, the 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 1 V or less using a multimeter or an oscilloscope.

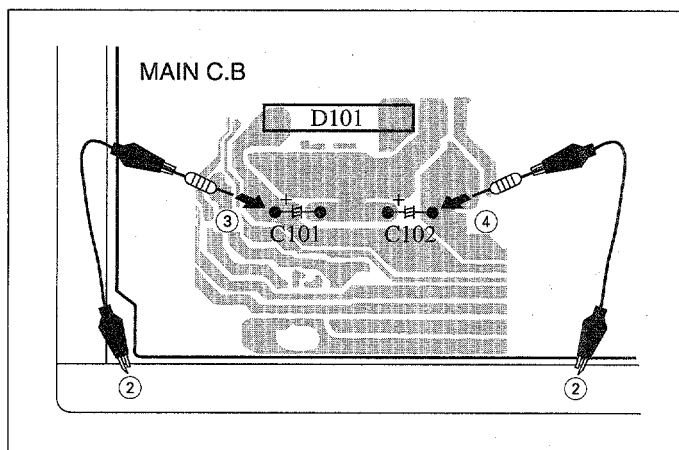


Fig-1

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.

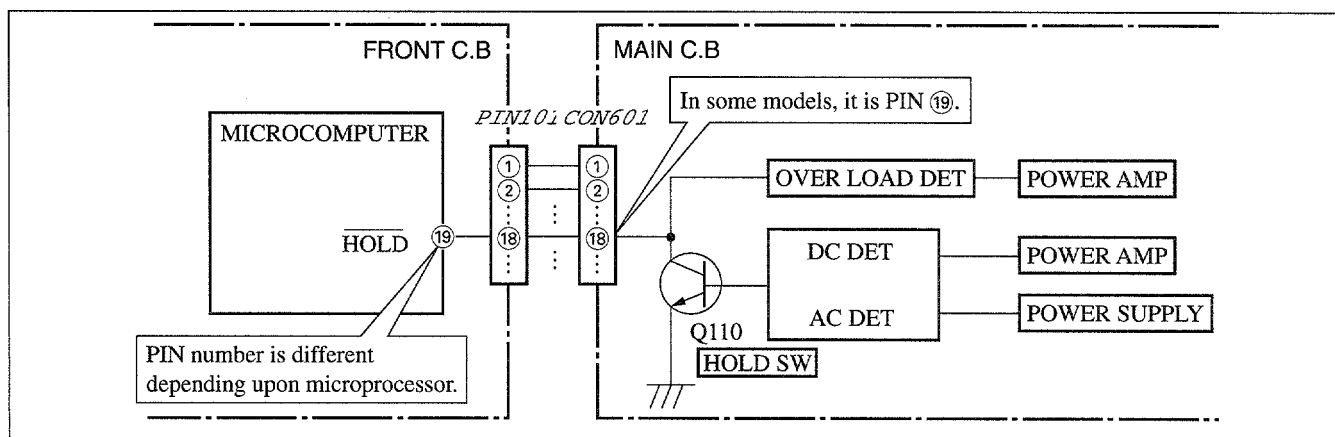


Fig-2-1

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.

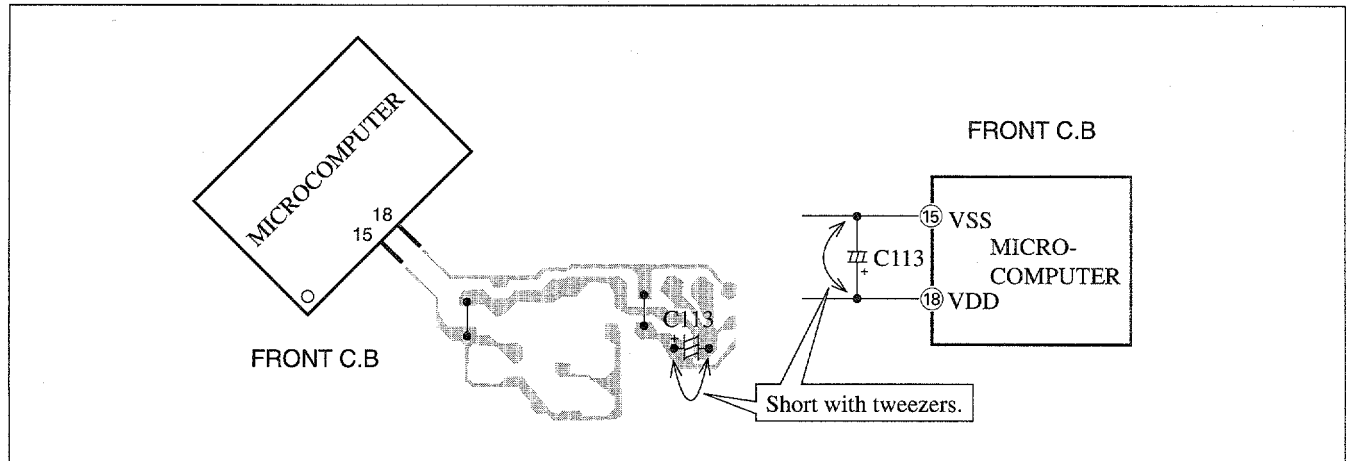


Fig-2-2

- 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 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.

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	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<SW Tuner section>

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Mid-high frequency amplifier

Power output	Rated : 30 W + 30 W (1kHz, T.H.D. 1%, 6 ohms) Reference : 40 W + 40 W (1 kHz, T.H.D.10%, 6 ohms)
Total harmonic distortion	0.3% (6 W, 1 kHz, 6 ohms, DIN AUDIO)

Low-high frequency amplifier

Power output	Rated : 130 W + 130 W (75 Hz, T.H.D. 1%, 6 ohms) Reference : 170 W + 170 W (75 Hz, T.H.D. 10%, 6 ohms)
Total harmonic distortion	0.3% (13.5 W, 75 Hz, 6 ohms, DIN AUDIO)

Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable)
---------------	---

Outputs	MIC1, MIC2 : 1.4mV (10 kohms) LINE OUT: 280mV SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms PHONES (stereo jack) : accepts headphones of 32 ohms or more
----------------	---

<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	60 dB (Dobly B NR ON, CrO ₂ tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : 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	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-WNF958>

Cabinet type	4 way (magnetic shielded type)
Speakers	Subwoofer : 200 mm cone type Woofer : 120 mm cone type Tweeter : 60 mm ceramic type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 353 x 387 mm (10 ¹ / ₄ X 14 X 15 ¹ / ₄ in.)
Weight	6.5 kg (14 lbs 5 oz.)

<Speaker system SX-WNF959>

Cabinet type	4 way (magnetic shielded type)
Speakers	Subwoofer : 200 mm cone type Woofer : 120 mm cone type Tweeter : 60 mm ceramic type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	270 x 440 x 316 mm
Weight	6.8 kg

<General>

Power requirements	120 V/220-230 V/240 V AC (switchable), 50/60 Hz
Power consumption	250 W
Dimensions of main unit	300 x 357.5 x 376 mm (11 ⁷ / ₈ X 14 ¹ / ₈ X 14 ⁷ / ₈ in.)
Weight	12.8 kg (28 lbs 4 oz.)

• Design and specifications are subject to change without notice.

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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.

ELECTRICAL MAIN PARTS LIST

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

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				MAIN C.B			
	88-NF3-640-010		C-IC, LC866560W-5G72	C101	87-A10-231-090		CAP, E 3300-80
	87-NF8-614-010		IC, SPS-442-1-W	C102	87-A10-231-090		CAP, E 3300-80
	87-017-915-080		IC, BU4094BCF	C103	87-016-658-090		CAP, E 4700-35 SMG
	87-A20-355-010		IC, CXA1553P	C104	87-016-658-090		CAP, E 4700-35 SMG
	87-A20-783-040		C-IC, BA7762AFS	C105	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-083-010		IC, BA3835S	C106	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-804-040		C-IC, NJM2152M	C107	87-012-368-080		C-CAP, S 0.1-50 F
	87-070-289-040		IC, BU 2092F	C108	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-560-040		C-IC, M65849BFP	C109	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-954-040		C-IC, M62445FP-601	C110	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-017-888-080		IC, NJM4558MD	C111	87-010-196-080		CHIP CAPACITOR, 0.1-25
	86-NF2-655-010		IC, LC72131D(Z)	C112	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-438-010		IC, LA1837	C113	87-010-247-080		CAP, ELECT 100-50V
	88-NF5-615-040		C-IC, MSM6654A-521GS-KR1	C114	87-010-385-080		CAP, ELECT 220-25V
	87-A20-437-010		C-IC, M62431FP	C115	87-010-385-080		CAP, ELECT 220-25V
	87-020-454-010		IC, DN6851	C116	87-010-247-080		CAP, ELECT 100-50V
	87-A20-561-040		IC, M65847AFP	C117	87-010-430-080		CAP, ELECT 100-63
				C118	87-010-263-080		CAP, ELECT 100-10V
				C119	87-010-260-080		CAP, ELECT 47-25V
				C120	87-010-403-080		CAP, ELECT 3.3-50V
TRANSISTOR							
	87-A30-107-070		C-TR, CMBT5401				
	87-026-263-080		C-TR, RN1410	C121	87-012-140-080		CAP 470P
	89-213-702-010		TR, 2SB1370 (1.8W)	C123	87-010-247-080		CAP, ELECT 100-50V
	87-A30-087-080		C-FET, 2SK2158	C124	87-010-112-080		CAP, ELECT 100-16V
	87-026-232-080		TR, DTA144WK	C125	87-010-235-080		CAP, E 470-16 SME
				C209	87-010-401-080		CAP, ELECT 1-50V
	87-A30-075-080		C-TR, 2SA1235F				
	87-026-610-080		TR, KTC3198GR	C210	87-010-401-080		CAP, ELECT 1-50V
	87-A30-076-080		C-TR, 2SC3052F	C211	87-010-178-080		C-CAP, S 1000P-50 KB
	87-A30-073-080		C-TR, RT1N 141C	C212	87-010-178-080		C-CAP, S 1000P-50 KB
	87-A30-196-080		TR, 2SC4115SRS	C215	87-010-404-080		CAP, ELECT 4.7-50V
				C216	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-071-080		C-TR, RT1N 144C				
	87-026-609-080		TR, KTA1266GR	C217	87-010-913-080		CAP, E 47-25 ASF BP
	87-A30-086-070		C-TR, CSD1306E	C218	87-010-913-080		CAP, E 47-25 ASF BP
	87-A30-190-080		TR, CC5551	C223	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-204-010		TR, 2SD2439	C224	87-010-197-080		CAP, CHIP 0.01 DM
				C229	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-A30-205-010		TR, 2SB1588				
	87-A30-106-070		C-TR, CMBT5551	C230	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-A30-162-010		FET, 2SK2937	C233	87-010-544-080		CAP, ELECT 0.1-50V
	87-A30-072-080		C-TR, RT1P 144C	C234	87-010-544-080		CAP, ELECT 0.1-50V
	87-A30-137-010		TR, 2SD2494	C235	87-010-196-080		CHIP CAPACITOR, 0.1-25
				C237	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-138-010		TR, 2SB1625				
	87-A30-074-080		C-TR, RT1P 141C	C238	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-221-040		C-TR, DTA114WK	C239	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-226-080		CHIP-TR, DTA143EK	C240	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-105-080		C-TR, RT1P 441C	C243	87-010-322-080		C-CAP, S 100P-50 CH
				C244	87-010-322-080		C-CAP, S 100P-50 CH
	87-A30-084-080		TR, CSB1058B				
	89-109-521-080		TR, 2SA952 (0.6W)	C247	87-010-186-080		C-CAP, S 4700P-50 KB
	89-327-143-080		TR, 2SC2714 (0.1W)	C248	87-010-186-080		C-CAP, S 4700P-50 KB
	87-026-463-080		TR, 2SA933S	C280	87-012-368-080		C-CAP, S 0.1-50 F
				C301	87-010-318-080		C-CAP, S 47P-50 CH
				C302	87-010-318-080		C-CAP, S 47P-50 CH
DIODE							
	87-A40-470-080		DIODE, 1SS254	C303	87-012-157-080		C-CAP, S 330P-50 CH
	87-017-447-010		DIODE, GBU4DL	C304	87-012-157-080		C-CAP, S 330P-50 CH
	87-017-654-060		DIODE, GBU6J	C305	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-269-080		C-DIODE, MC2836	C306	87-012-145-080		CAP, CHIP S 270P CH
	87-A40-270-080		C-DIODE, MC2838	C307	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-070-274-080		DIODE, 1N4003 SEM				
	87-A40-440-080		ZENER, MTZJ7.5A	C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-503-080		ZENER, MTZJ39B	C312	87-010-198-080		CAP, CHIP 0.022
	87-A40-345-080		ZENER, MTZJ10C	C313	87-010-179-080		CAP, CHIP S B1200P
	87-A40-438-080		ZENER, MTZJ4.7A	C314	87-010-179-080		CAP, CHIP S B1200P
				C315	87-010-178-080		CHIP CAP 1000P
	87-A40-004-080		ZENER, MTZJ16A				
	87-A40-274-010		DIODE, FMB-G16L	C316	87-010-178-080		CHIP CAP 1000P
	87-A40-488-080		DIODE, 1SS244	C317	87-012-142-080		CAP, S 0.33-16
	87-070-136-080		ZENER, MTZJ5.1B	C318	87-012-142-080		CAP, S 0.33-16
	87-A40-234-080		ZENER, MTZJ5.6A	C319	87-012-141-080		CHIP-CAPACITOR, 0.22-16F
				C320	87-012-141-080		CHIP-CAPACITOR, 0.22-16F
	87-A40-002-080		ZENER, MTZJ5.1C				
	87-A40-392-010		DIODE, 1N5818	C321	87-012-141-080		CHIP-CAPACITOR, 0.22-16F
				C322	87-012-141-080		CHIP-CAPACITOR, 0.22-16F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C324	87-010-260-080		CAP, ELECT 47-25V	C517	87-010-183-080		C-CAP,S 2700P-50 KB
C325	87-010-370-080		CAP,E 330-6.3 SME	C521	87-012-141-080		C-CAP,S 0.22-16
C327	87-010-404-080		CAP, ELECT 4.7-50V	C522	87-012-141-080		C-CAP,S 0.22-16
C328	87-010-404-080		CAP, ELECT 4.7-50V	C523	87-012-141-080		C-CAP,S 0.22-16
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C527	87-010-196-080		C-CAP,S 0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V	C551	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V	C552	87-010-263-080		CAP, ELECT 100-10V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C553	87-010-380-080		CAP, ELECT 47-16V
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C601	87-010-180-080		C-CER 1500P
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C602	87-010-180-080		C-CER 1500P
C351	87-012-140-080		CAP 470P	C613	87-016-081-080		C-CAP,S 0.1-16 RK
C352	87-012-140-080		CAP 470P	C614	87-016-081-080		C-CAP,S 0.1-16 RK
C354	87-010-175-080		CAP 560P	C619	87-010-185-080		C-CAP,S 3900P-50 B
C355	87-010-178-080		CHIP CAP 1000P	C620	87-010-185-080		C-CAP,S 3900P-50 B
C356	87-010-260-080		CAP, ELECT 47-25V	C621	87-010-401-080		CAP, ELECT 1-50V
C357	87-010-197-080		CAP, CHIP 0.01 DM	C622	87-010-401-080		CAP, ELECT 1-50V
C358	87-010-183-080		C-CAP,S 2700P-50 B	C625	87-010-405-080		CAP, ELECT 10-50V
C359	87-010-183-080		C-CAP,S 2700P-50 B	C626	87-010-405-080		CAP, ELECT 10-50V
C360	87-010-183-080		C-CAP,S 2700P-50 B	C629	87-010-405-080		CAP, ELECT 10-50V
C363	87-A10-772-080		CAP,M 5600P-50 J	C630	87-010-213-080		C-CAP,S 0.015-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C631	87-010-194-080		CAP, CHIP 0.047
C371	87-010-177-080		C-CAP,S 820P-50 SL	C632	87-010-263-080		CAP, ELECT 100-10V
C372	87-010-177-080		C-CAP,S 820P-50 SL	C633	87-010-263-080		CAP, ELECT 100-10V
C373	87-010-179-080		CAP,CHIP S B1200P	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-010-179-080		CAP,CHIP S B1200P	C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C375	87-010-545-080		CAP, ELECT 0.22-50V	C636	87-010-194-080		CAP, CHIP 0.047
C376	87-010-545-080		CAP, ELECT 0.22-50V	C637	87-010-183-080		C-CAP,S 2700P-50 B
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C641	87-012-368-080		C-CAP,S 0.1-50 F
C381	87-010-197-080		CAP, CHIP 0.01 DM	C667	87-012-368-080		C-CAP,S 0.1-50 F
C382	87-010-318-080		C-CAP,S 47P-50 CH	C701	87-010-381-080		CAP, ELECT 330-16V
C383	87-010-197-080		CAP, CHIP 0.01 DM	C702	87-010-404-080		CAP, ELECT 4.7-50V
C384	87-010-402-080		CAP, ELECT 2.2-50V	C703	87-010-197-080		CAP, CHIP 0.01 DM
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C704	87-010-197-080		CAP, CHIP 0.01 DM
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C709	87-010-322-080		C-CAP,S 100P-50 CH
C401	87-010-405-080		CAP, ELECT 10-50V	C711	87-010-263-080		CAP, ELECT 100-10V
C402	87-010-405-080		CAP, ELECT 10-50V	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-184-080		CHIP CAPACITOR 3300P(K)	C713	87-010-197-080		CAP, CHIP 0.01 DM
C404	87-010-184-080		CHIP CAPACITOR 3300P(K)	C714	87-010-197-080		CAP, CHIP 0.01 DM
C405	87-010-193-080		CHIP CAPACITOR,0.033	C721	87-010-312-080		C-CAP,S 15P-50 CH
C406	87-010-193-080		CHIP CAPACITOR,0.033	C722	87-010-312-080		C-CAP,S 15P-50 CH
C407	87-010-405-080		CAP, ELECT 10-50V	C723	87-010-178-080		CHIP CAP 1000P
C408	87-010-405-080		CAP, ELECT 10-50V	C725	87-010-178-080		CHIP CAP 1000P
C409	87-010-380-080		CAP, ELECT 47-16V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C410	87-010-380-080		CAP, ELECT 47-16V	C728	87-010-248-080		CAP, ELECT 220-10V
C411	87-010-405-080		CAP, ELECT 10-50V	C755	87-010-197-080		CAP, CHIP 0.01 DM
C412	87-010-112-080		CAP, ELECT 100-16V	C756	87-010-197-080		CAP, CHIP 0.01 DM
C415	87-010-184-080		CHIP CAPACITOR 3300P(K)	C757	87-010-318-080		C-CAP,S 47P-50 CH
C416	87-010-184-080		CHIP CAPACITOR 3300P(K)	C758	87-010-149-080		C-CAP,S 5P-50 CH
C453	87-010-544-080		CAP, ELECT 0.1-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C454	87-010-544-080		CAP, ELECT 0.1-50V	C762	87-010-197-080		CAP, CHIP 0.01 DM
C457	87-010-402-080		CAP, ELECT 2.2-50V	C763	87-010-194-080		CAP, CHIP 0.047
C458	87-010-402-080		CAP, ELECT 2.2-50V	C764	87-010-319-080		C-CAP,S 56P-50 CH
C459	87-010-402-080		CAP, ELECT 2.2-50V	C765	87-010-197-080		CAP, CHIP 0.01 DM
C460	87-010-402-080		CAP, ELECT 2.2-50V	C766	87-010-197-080		CAP, CHIP 0.01 DM
C461	87-010-545-080		CAP, ELECT 0.22-50V	C767	87-010-405-080		CAP, ELECT 10-50V
C463	87-010-402-080		CAP, ELECT 2.2-50V	C768	87-010-197-080		CAP, CHIP 0.01 DM
C464	87-010-402-080		CAP, ELECT 2.2-50V	C769	87-010-408-080		CAP, ELECT 47-50V
C501	87-A10-060-080		C-CAP,S 0.18-16 KB	C770	87-015-821-080		C-CAP 0.047
C502	87-A10-060-080		C-CAP,S 0.18-16 KB	C771	87-010-407-080		CAP, ELECT 33-50V
C503	87-012-154-080		C-CAP,S 150P-50 CH	C772	87-010-194-080		CAP, CHIP 0.047
C504	87-012-154-080		C-CAP,S 150P-50 CH	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C505	87-012-145-080		C-CAP,S 270P-50 CH	C774	87-010-263-080		CAP, ELECT 100-10V
C506	87-012-145-080		C-CAP,S 270P-50 CH	C775	87-010-404-080		CAP, ELECT 4.7-50V
C507	87-010-183-080		C-CAP,S 2700P- 50 KB	C777	87-010-400-080		CAP, ELECT 0.47-50V
C509	87-010-196-080		C-CAP,S 0.1-25	C778	87-010-401-080		CAP, ELECT 1-50V
C510	87-010-177-080		C-CAP,S 820P- 50 SL	C779	87-010-401-080		CAP, ELECT 1-50V
C511	87-010-177-080		C-CAP,S 820P- 50 SL	C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C512	87-010-196-080		C-CAP,S 0.1-25	C781	87-010-405-080		CAP, ELECT 10-50V
C513	87-010-374-080		CAP, ELECT 47-10 M	C782	87-010-405-080		CAP, ELECT 10-50V
C514	87-010-196-080		C-CAP,S 0.1-25	C783	87-015-819-080		CAPACITOR,0.01

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C784	87-010-197-080		CAP, CHIP 0.01 DM	SFR302	87-A90-636-080		SFR,33K H RH0638C LG
C785	87-010-403-080		CAP, ELECT 3.3-50V	SFR303	87-A90-636-080		SFR,33K H RH0638C LG
C786	87-010-403-080		CAP, ELECT 3.3-50V	SFR304	87-A90-636-080		SFR,33K H RH0638C LG
C787	87-010-184-080		CHIP CAPACITOR 3300P(K)	SFR305	87-A90-637-080		SFR,47K H RH0638C LG
C788	87-010-184-080		CHIP CAPACITOR 3300P(K)	SFR306	87-A90-637-080		SFR,47K H RH0638C LG
C789	87-010-179-080		CAP,CHIP S B1200P	SFR351	87-A90-637-080		SFR,47K H RH0638C LG
C790	87-010-179-080		CAP,CHIP S B1200P	SFR352	87-A90-637-080		SFR,47K H RH0638C LG
C791	87-010-405-080		CAP, ELECT 10-50V	TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9
C793	87-010-177-080		C-CAP,S 820P-50 SL	TC943	87-011-221-080		TRIMMER,CER 30P 6.15X5.9
C794	87-010-406-080		CAP, ELECT 22-50	TH201	87-A90-221-080		C-THMS,100K
C795	87-010-596-080		CAP, S 0.047-16	TH202	87-A90-221-080		C-THMS,100K
C796	87-010-403-080		CAP, ELECT 3.3-50V	W104	88-NF3-665-010		F-CABLE,7P -2.5 (GETA)
C797	87-010-182-080		C-CAP,S 2200P-50 B	WH102	87-A90-142-010		HOLDER,51052-0710 V0
C798	87-010-182-080		C-CAP,S 2200P-50 B	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C799	87-010-194-080		CAP, CHIP 0.047	X771	87-030-354-010		VIB,CER 450.0KHZ BFUC
C812	87-010-197-080		CAP, CHIP 0.01 DM	FRONT C.B			
C814	87-010-197-080		CAP, CHIP 0.01 DM	C101	87-010-182-080		C-CAP,S 2200P-50 B
C820	87-010-408-080		CAP, ELECT 47-50V	C102	87-010-182-080		C-CAP,S 2200P-50 B
C821	87-010-197-080		CAP, CHIP 0.01 DM	C104	87-010-312-080		C-CAP,S 15P-50 CH
C822	87-010-197-080		CAP, CHIP 0.01 DM	C105	87-010-316-080		C-CAP,S 33P-50 CH
C823	87-010-197-080		CAP, CHIP 0.01 DM	C106	87-010-320-080		CHIP CAP 68P
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	C107	87-012-157-080		C-CAP,S 330P-50 CH
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	C108	87-010-498-040		CAP,E 10-16 GAS
C940	87-010-197-080		CAP, CHIP 0.01 DM	C109	87-010-401-040		CAP,E 1-50 SME
C941	87-010-314-080		C-CAP,S 22P-50 J CH	C110	87-A10-369-080		C-CAP,S 0.47-16 K B
C943	87-010-197-080		CAP, CHIP 0.01 DM	C111	87-010-196-080		CHIP CAPACITOR,0.1-25
C944	87-010-175-080		CAP, 560P	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C945	87-010-197-080		CAP, CHIP 0.01 DM	C113	87-A10-189-040		CAP,E 220-10
C947	87-010-197-080		CAP, CHIP 0.01 DM	C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C952	87-010-197-080		CAP, CHIP 0.01 DM	C115	87-010-178-080		CHIP CAP 1000P
C953	87-010-197-080		CAP, CHIP 0.01 DM	C116	87-010-494-040		CAP,E 1-50 GAS
C954	87-010-400-040		CAP, E 0.47-50	C117	87-010-263-040		CAP,E 100-10
C956	87-A10-263-040		CAP, E 100-10	C118	87-010-194-080		CAP, CHIP 0.047
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C119	87-010-408-040		CAP,E 47-50 SME
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C120	87-010-404-040		CAP,E 4.7-50 SME
C962	87-010-401-080		CAP, ELECT 1-50V	C121	87-010-404-040		CAP,E 4.7-50 SME
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	C122	87-010-194-080		CAP, CHIP 0.047
CF802	87-008-261-010		FILTER, SFE10.7MA5-A	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
CN351	88-NF3-666-010		CONN ASSY,8P RPB	C124	87-010-196-080		CHIP CAPACITOR,0.1-25
FB601	87-A50-190-080		C-COIL,S BLM21A102S	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
FC451	88-905-451-110		FF-CABLE, 5P 1.25	C126	87-010-263-040		CAP,E 100-10
FC602	88-906-261-110		FF-CABLE,6P 1.25 260MM	C127	87-010-196-080		CHIP CAPACITOR,0.1-25
FFB801	A8-8ZA-190-030		8ZA-1 FEUNM	C128	87-010-309-080		C-CAP,1000P-50 CH
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05	C129	87-012-157-080		C-CAP,S 330P-50 CH
J211	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C130	87-A10-189-040		CAP,E 220-10
J601	87-A60-402-010		JACK,PIN 6P R/W HSP-246V30	C150	87-010-194-080		CAP, CHIP 0.047
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C151	87-010-194-080		CAP, CHIP 0.047
L201	87-003-383-010		COIL,1UH-S	C240	87-010-176-080		C-CAP,S 680P-50 SL
L202	87-003-383-010		COIL,1UH-S	C249	87-010-176-080		C-CAP,S 680P-50 SL
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C250	87-010-176-080		C-CAP,S 680P-50 SL
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C251	87-010-176-080		C-CAP,S 680P-50 SL
L351	87-007-342-010		COIL,OSC 85K BIAS	C252	87-010-178-080		CHIP CAP 1000P
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C281	87-010-182-080		C-CAP,S 2200P-50 B
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)	C282	87-010-182-080		C-CAP,S 2200P-50 B
L781	87-005-847-080		COIL,2.2UH(CECS)	C301	87-010-196-080		CHIP CAPACITOR,0.1-25
L791	87-A50-209-010		COIL,1POLE MPX(MIT)	C302	87-010-196-080		CHIP CAPACITOR,0.1-25
L792	87-A50-209-010		COIL,1POLE MPX(MIT)	C303	87-010-196-080		CHIP CAPACITOR,0.1-25
L832	86-NFZ-694-080		COIL,2.2UH K CECS	C351	87-012-158-080		C-CAP,S 390P-50 CH
L941	87-A50-022-010		COIL,ANT SW	C352	87-010-196-080		CHIP CAPACITOR,0.1-25
L942	87-A50-173-010		COIL,OSC SW	C353	87-010-196-080		CHIP CAPACITOR,0.1-25
L943	87-005-372-080		COIL, 1MH K LAL03	C354	87-010-196-080		CHIP CAPACITOR,0.1-25
L944	87-A50-159-010		COIL, 10MH K C2B	C355	87-010-196-080		CHIP CAPACITOR,0.1-25
L981	88-NF8-652-010		COIL,AM PACK 3N(TOK)	C356	87-010-196-080		CHIP CAPACITOR,0.1-25
M451	87-A90-796-010		FAN,F614R-12MC-15-300MM	C357	87-010-196-080		CHIP CAPACITOR,0.1-25
R237	87-A00-262-080		RES,M/F 0.15-2W J	C501	87-A10-804-080		C-CAP,S 0.1-25 J B
R238	87-A00-262-080		RES,M/F 0.15-2W J	C502	87-A10-804-080		C-CAP,S 0.1-25 J B
R239	87-A00-262-080		RES,M/F 0.15-2W J	C503	87-012-141-080		CHIP-CAPACITOR,0.22-16F
R240	87-A00-262-080		RES,M/F 0.15-2W J	C504	87-010-186-080		CAP,CHIP 4700P
RY101	87-A90-464-010		RELAY, DG12D2-O(M)	C505	87-010-178-080		CHIP CAP 1000P
SFR301	87-A90-636-080		SFR,33K H RH0638C LG	C506	87-A10-803-080		C-CAP,S 0.068-16 J B CM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C507	87-A10-803-080		C-CAP,S 0.068-16 J B CM	FC502	88-904-261-110		FF-CABLE, 4P 1.25 260MM
C508	87-010-186-080		CAP,CHIP 4700P	FC701	88-915-181-110		FF-CABLE,15P 1.25
C509	87-010-178-080		CHIP CAP 1000P	FL101	88-NF3-611-010		FL,BJ604GK-8NF3
C510	87-012-141-080		CHIP-CAPACITOR,0.22-16F	J601	87-A60-284-010		JACK,3.5MO (MSC)
C511	87-010-196-080		CHIP CAPACITOR,0.1-25	J602	87-A60-284-010		JACK,3.5MO (MSC)
C512	87-010-263-040		CAP,E 100-10	L901	87-007-340-010		COIL,CLOCK 4.19MHZ
C513	87-A10-723-040		CAP,E 2.2-35 5L SSE	LED401	87-A40-259-080		LED,SLR-342VCT31 RED
C514	87-A10-723-040		CAP,E 2.2-35 5L SSE	LED402	87-A40-259-080		LED,SLR-342VCT31 RED
C515	87-010-183-080		C-CAP,S 2700P-50 B	LED403	87-A40-259-080		LED,SLR-342VCT31 RED
C516	87-010-183-080		C-CAP,S 2700P-50 B	LED404	87-A40-259-080		LED,SLR-342VCT31 RED
C518	87-010-196-080		CHIP CAPACITOR,0.1-25	LED405	87-A40-259-080		LED,SLR-342VCT31 RED
C519	87-010-263-040		CAP,E 100-10	LED406	87-070-197-080		LED,SLP7118C-51-S-T1
C601	87-010-405-040		CAP,E 10-50	LED407	87-070-197-080		LED,SLP7118C-51-S-T1
C602	87-010-186-080		CAP,CHIP 4700P	LED408	87-070-197-080		LED,SLP7118C-51-S-T1
C603	87-010-498-040		CAP,E 10-16 GAS	LED409	87-070-197-080		LED,SLP7118C-51-S-T1
C604	87-010-499-040		CAP,E 22-6.3 GAS	LED410	87-070-197-080		LED,SLP7118C-51-S-T1
C605	87-010-196-080		CHIP CAPACITOR,0.1-25	LED411	87-070-197-080		LED,SLP7118C-51-S-T1
C607	87-010-321-080		CHIP CAPACITOR,82P(J)	LED412	87-070-197-080		LED,SLP7118C-51-S-T1
C608	87-010-196-080		CHIP CAPACITOR,0.1-25	LED413	87-070-197-080		LED,SLP7118C-51-S-T1
C609	87-010-545-040		CAP,E 0.22-50 SME	LED414	87-070-197-080		LED,SLP7118C-51-S-T1
C611	87-010-177-080		C-CAP,S 820P-50 SL	LED415	87-070-197-080		LED,SLP7118C-51-S-T1
C613	87-010-322-080		C-CAP,S 100P-50 CH	LED416	87-070-281-080		LED,SLZ736A-25-S-T1
C614	87-010-248-040		C-CAP,S 220-10 SME	LED417	87-070-281-080		LED,SLZ736A-25-S-T1
C621	87-010-405-040		CAP,E 10-50	LED418	87-070-281-080		LED,SLZ736A-25-S-T1
C634	87-015-678-040		CAP,E 22-10 M 7L SRA	LED419	87-070-281-080		LED,SLZ736A-25-S-T1
C705	87-010-314-080		C-CAP,S 22P-50 CH	LED420	87-070-281-080		LED,SLZ736A-25-S-T1
C706	87-010-314-080		C-CAP,S 22P-50 CH	LED421	87-070-281-080		LED,SLZ736A-25-S-T1
C707	87-010-314-080		C-CAP,S 22P-50 CH	LED431	87-070-278-010		LED,SLZ-738A-24-S
C801	87-010-263-040		CAP,E 100-10	LED432	87-070-278-010		LED,SLZ-738A-24-S
C802	87-010-196-080		CHIP CAPACITOR,0.1-25	LED433	87-070-290-010		LED,SLZ 936-30-S
C803	87-010-400-040		CAP,E 0.47-50	LED434	87-070-290-010		LED,SLZ 936-30-S
C888	87-A10-369-040		C-CAP,S 0.47-16 KB	LED435	87-070-278-010		LED,SLZ-738A-24-S
C899	87-010-178-080		C-CAP,1000P BK	LED436	87-070-278-010		LED,SLZ-738A-24-S
C900	87-010-178-080		C-CAP,1000P BK	PR107	87-A90-560-080		PROTECTOR,630A 60V
C901	87-010-421-040		CAP,E 4.7-50 5L	R243	87-A00-258-080		RES,M/F 0.22-1W J
C902	87-A10-818-040		CAP,E 100-16 7LSRA SERIES	R244	87-A00-258-080		RES,M/F 0.22-1W J
C905	87-010-493-040		CAP,E 0.47-50 GAS	R245	87-A00-258-080		RES,M/F 0.22-1W J
C906	87-010-196-080		CHIP CAPACITOR,0.1-25	R246	87-A00-258-080		RES,M/F 0.22-1W J
C907	87-010-196-080		CHIP CAPACITOR,0.1-25	S302	87-A90-756-080		SW,TACT SINKO
C908	87-010-400-040		CAP,E 0.47-50	S304	87-A90-756-080		SW,TACT SINKO
C910	87-A10-369-080		C-CAP,S 0.47-16 K B	S305	87-A90-756-080		SW,TACT SINKO
C911	87-010-197-080		CAP, CHIP 0.01 DM	S306	87-A90-756-080		SW,TACT SINKO
C912	87-010-196-080		CHIP CAPACITOR,0.1-25	S307	87-A90-756-080		SW,TACT SINKO
C913	87-010-185-080		C-CAP,S 3900P-50 B	S308	87-A90-756-080		SW,TACT SINKO
C914	87-010-596-080		CAP, S 0.047-16	S316	87-A90-756-080		SW,TACT SINKO
C915	87-010-181-080		CAP,CHIP S 1800P	S317	87-A90-756-080		SW,TACT SINKO
C916	87-010-198-080		CAP, CHIP 0.022	S318	87-A90-756-080		SW,TACT SINKO
C917	87-010-176-080		C-CAP,S 680P-50 SL	S319	87-A90-756-080		SW,TACT SINKO
C918	87-010-188-080		CAP,CHIP 6800P	S320	87-A90-756-080		SW,TACT SINKO
C919	87-012-145-080		CAP, CHIP S 270P CH	S321	87-A90-756-080		SW,TACT SINKO
C920	87-010-183-080		C-CAP,S 2700P-50 B	S322	87-A90-756-080		SW,TACT SINKO
C921	87-015-696-040		CAP,E 2.2-50 SRA	S323	87-A90-756-080		SW,TACT SINKO
C922	87-015-696-040		CAP,E 2.2-50 SRA	S324	87-A90-756-080		SW,TACT SINKO
C924	87-010-198-080		CAP, CHIP 0.022	S325	87-A90-756-080		SW,TACT SINKO
C925	87-A10-369-080		C-CAP,S 0.47-16 K B	S326	87-A90-756-080		SW,TACT SINKO
C926	87-010-197-080		CAP, CHIP 0.01 DM	S327	87-A90-756-080		SW,TACT SINKO
C927	87-010-196-080		CHIP CAPACITOR,0.1-25	S328	87-A90-756-080		SW,TACT SINKO
C928	87-010-185-080		C-CAP,S 3900P-50 B	S329	87-A90-756-080		SW,TACT SINKO
C929	87-010-596-080		CAP, S 0.047-16	S330	87-A90-756-080		SW,TACT SINKO
C930	87-010-181-080		CAP,CHIP S 1800P	S331	87-A90-756-080		SW,TACT SINKO
C931	87-010-198-080		CAP, CHIP 0.022	S332	87-A90-756-080		SW,TACT SINKO
C932	87-010-176-080		C-CAP,S 680P-50 SL	S333	87-A90-756-080		SW,TACT SINKO
C933	87-010-188-080		CAP,CHIP 6800P	S334	87-A90-756-080		SW,TACT SINKO
C934	87-012-145-080		CAP, CHIP S 270P CH	S335	87-A90-756-080		SW,TACT SINKO
C935	87-010-183-080		C-CAP,S 2700P-50 B	S336	87-A90-756-080		SW,TACT SINKO
C965	87-010-313-080		CAP, CHIP 18P	S337	87-A90-756-080		SW,TACT SINKO
C966	87-010-313-080		CAP, CHIP 18P	S338	87-A90-756-080		SW,TACT SINKO
CN302	87-099-201-010		CONN,8P 6216 H	S339	87-A90-756-080		SW,TACT SINKO
CN502	87-099-209-010		COMM,4P 6216H	S340	87-A90-756-080		SW,TACT SINKO
FC102	88-912-201-110		FF-CABLE,12P-1.25				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION		REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S341	87-A90-756-080		SW,TACT SINKO		LED476	87-070-197-080		LED,SLP7118C-51-S-T1
S342	87-A90-756-080		SW,TACT SINKO		S309	87-A90-756-080		SW,TACT SINKO
S343	87-A90-756-080		SW,TACT SINKO		S310	87-A90-756-080		SW,TACT SINKO
S344	87-A90-756-080		SW,TACT SINKO		S311	87-A90-756-080		SW,TACT SINKO
S345	87-A90-756-080		SW,TACT SINKO		S312	87-A90-756-080		SW,TACT SINKO
S370	87-A90-756-080		SW,TACT SINKO		S313	87-A90-756-080		SW,TACT SINKO
S371	87-A90-756-080		SW,TACT SINKO		S314	87-A90-756-080		SW,TACT SINKO
S372	87-A90-756-080		SW,TACT SINKO		S315	87-A90-756-080		SW,TACT SINKO
S373	87-A90-756-080		SW,TACT SINKO					
S374	87-A90-756-080		SW,TACT SINKO					
				DIAL C.B				
S375	87-A90-756-080		SW,TACT SINKO					
SW101	87-A90-535-010		SW,RTRY EC16B24304	C287	87-010-196-080			CHIP CAPACITOR,0.1-25
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF	FC802	88-910-131-110			FF-CABLE,10P 1.25
				LED460	87-017-368-080			LED,SEL4514C TP-5
				LED461	87-017-368-080			LED,SEL4514C TP-5
HIFI-AMP C.B				LED462	87-017-368-080			LED,SEL4514C TP-5
C101	87-012-368-080		C-CAP,S 0.1-50 F	LED463	87-017-368-080			LED,SEL4514C TP-5
C102	87-012-368-080		C-CAP,S 0.1-50 F	LED464	87-017-368-080			LED,SEL4514C TP-5
C103	87-010-917-090		CAP,E 3300-50 M SMG	LED465	87-017-368-080			LED,SEL4514C TP-5
C104	87-010-917-090		CAP,E 3300-50 M SMG	LED466	87-017-368-080			LED,SEL4514C TP-5
C106	87-010-182-080		C-CAP,S 2200P-50 B	LED467	87-017-368-080			LED,SEL4514C TP-5
C201	87-010-112-080		CAP, ELECT 100-16V	LED468	87-017-368-080			LED,SEL4514C TP-5
C202	87-010-378-080		CAP, ELECT 10-16V	LED469	87-017-368-080			LED,SEL4514C TP-5
C207	87-010-401-080		CAP, ELECT 1-50V	LED470	87-017-368-080			LED,SEL4514C TP-5
C208	87-010-401-080		CAP, ELECT 1-50V	LED471	87-017-368-080			LED,SEL4514C TP-5
C209	87-010-181-080		CAP,CHIP S 1800P	SW102	87-A90-784-010			SW,RTRY EC12E 20MM
C210	87-010-181-080		CAP,CHIP S 1800P					
C211	87-010-545-080		CAP, ELECT 0.22-50V	AC2 C.B				
C212	87-010-545-080		CAP, ELECT 0.22-50V	⚠ PR101	87-026-682-080			PROTECTOR,10A 60V49I
C213	87-010-184-080		CHIP CAPACITOR 3300P(K)	⚠ PR102	87-026-682-080			PROTECTOR,10A 60V49I
C214	87-010-184-080		CHIP CAPACITOR 3300P(K)	⚠ PR103	87-026-682-080			PROTECTOR,10A 60V49I
C217	87-010-402-080		CAP, ELECT 2.2-50V	⚠ PR104	87-026-682-080			PROTECTOR,10A 60V49I
C218	87-010-402-080		CAP, ELECT 2.2-50V	⚠ PR105	87-A90-195-080			PROTECTOR 7A 125V 49
C219	87-A10-812-080		C-CAP,S 220P-200 J CH					
C220	87-A10-812-080		C-CAP,S 220P-200 J CH	⚠ PR106	87-A90-195-080			PROTECTOR 7A 125V 49
C221	87-010-913-080		CAP,E 47-25 ASF BP	⚠ WH101	87-A90-142-010			HOLDER,51052-0710 V0
C222	87-010-913-080		CAP,E 47-25 ASF BP	PT C.B				
C223	87-010-544-080		CAP, ELECT 0.1-50V	⚠ F101	87-035-458-010			FUSE,4A 250V T W/C
C224	87-010-544-080		CAP, ELECT 0.1-50V	⚠ F102	87-035-458-010			FUSE,4A 250V T W/C
C225	87-010-993-080		C-CAP,S 0.056-25 B	⚠ FC101	87-033-147-010			FUSE CLAMP,MT-20
C226	87-010-993-080		C-CAP,S 0.056-25 B	⚠ FC102	87-033-147-010			FUSE CLAMP,MT-20
C227	87-010-196-080		CHIP CAPACITOR,0.1-25	⚠ FC103	87-033-147-010			FUSE CLAMP,MT-20
C228	87-010-196-080		CHIP CAPACITOR,0.1-25					
C231	87-012-153-080		C-CAP,S 120P-50 CH	⚠ FC104	87-033-147-010			FUSE CLAMP,MT-20
C232	87-012-153-080		C-CAP,S 120P-50 CH	⚠ PT101	88-NP3-603-010			PT,HR EI96-60 8NF3
C234	87-016-285-080		CAP,E 47-100SME	⚠ SW101	87-A90-165-010			SW,SL 1-2-3 SWS2301
				⚠ T101	87-A60-317-010			TERMINAL, 1P MSC
C235	87-016-285-080		CAP,E 47-100SME	⚠ T102	87-A60-317-010			TERMINAL, 1P MSC
C240	87-010-322-080		C-CAP,S 100P-50 CH					
J201	87-A60-545-010		JACK,PIN 4P W/R	DECK C.B				
L201	87-003-383-010		COIL,1UH-S	CON105	87-099-756-019			CONN, 15P 9604 S F
L202	87-003-383-010		COIL,1UH-S	SFR1	87-024-581-019			SFR,3.3K DIA 6H
RY101	87-045-382-010		RELAY,OUAZ-SH-112L	SOL1	82-ZM1-618-010			SOL ASSY, 27
				SOL2	82-ZM1-618-010			SOL ASSY, 27
KEY C.B				SW1	87-A90-248-019			SW,MICRO ESE11SH2CXQ
FC302	88-908-231-110		FF-CABLE,8P 1.25	SW2	87-A90-248-019			SW,MICRO ESE11SH2CXQ
LED447	87-070-197-080		LED,SLP7118C-51-S-T1	SW3	87-A90-248-019			SW,MICRO ESE11SH2CXQ
LED448	87-070-197-080		LED,SLP7118C-51-S-T1	SW4	87-036-110-010			SW,MICRO SPPB62
LED449	87-070-197-080		LED,SLP7118C-51-S-T1	SW5	87-036-110-010			SW,MICRO SPPB62
LED450	87-070-197-080		LED,SLP7118C-51-S-T1	SW6	87-036-110-010			SW,MICRO SPPB62
LED451	87-070-197-080		LED,SLP7118C-51-S-T1	SW8	87-A90-248-019			SW,MICRO ESE11SH2CXQ
LED452	87-070-197-080		LED,SLP7118C-51-S-T1	SW9	87-036-110-010			SW,MICRO SPPB62
LED453	87-070-197-080		LED,SLP7118C-51-S-T1	W001	82-ZM3-601-019			RBN,CORID,4P-75
LED454	87-070-197-080		LED,SLP7118C-51-S-T1	HEAD-1 C.B				
LED455	87-070-197-080		LED,SLP7118C-51-S-T1					
LED456	87-070-197-080		LED,SLP7118C-51-S-T1	HEAD-2 C.B				
LED472	87-070-197-080		LED,SLP7118C-51-S-T1					
LED473	87-070-197-080		LED,SLP7118C-51-S-T1					
LED474	87-070-197-080		LED,SLP7118C-51-S-T1					
LED475	87-070-197-080		LED,SLP7118C-51-S-T1					

TRANSISTOR ILLUSTRATION



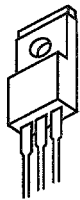
E C B

CC5551
2SA952
CSB1058



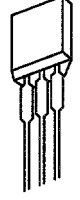
E C B

KTA1266
KTC3198



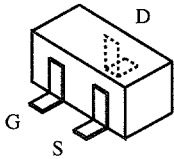
B C E

2SB1370



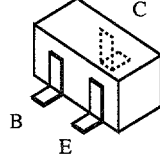
E C B

2SA933
DTA144



G S D

2SK2158



B E C

2SB1588
2SA1235
2SC2714
2SC3052
2SC4115
CMBT5401
CMBT5551
CSA1362
CSD1306
DTA114

DTA143
RN1410
RN1305
RN2305
RT1N141C
RT1N144C
RT1P144C
RT1P141C
RT1P441C



G D S

2SK2937

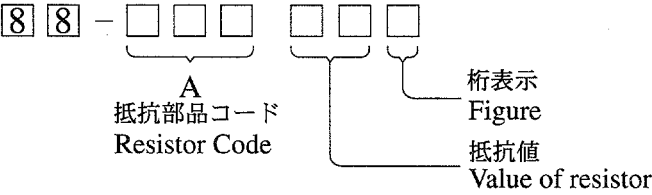


B C E

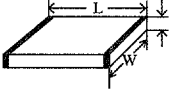
2SB1375
2SB1625
2SD2439
2SD2494

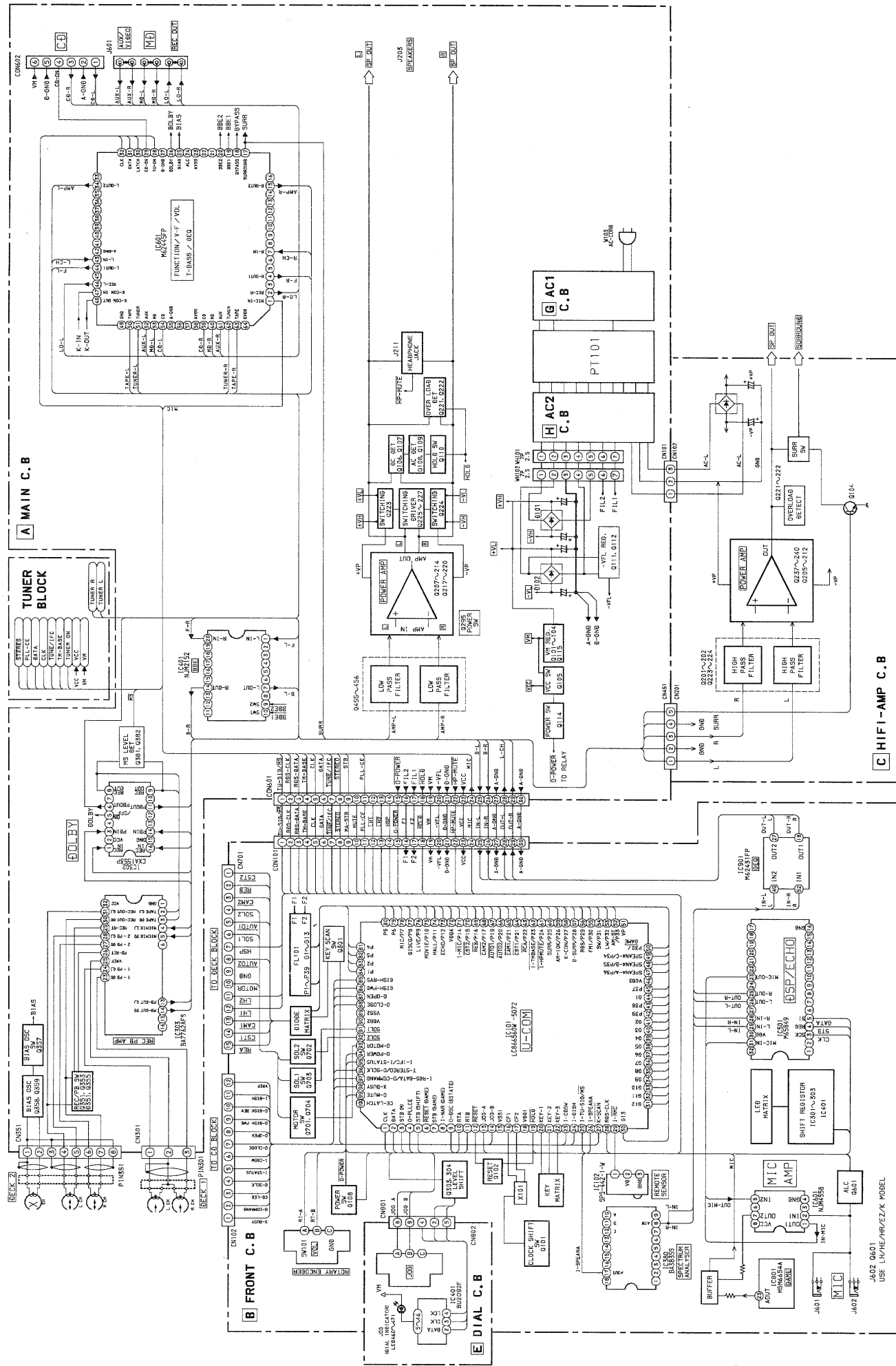
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

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

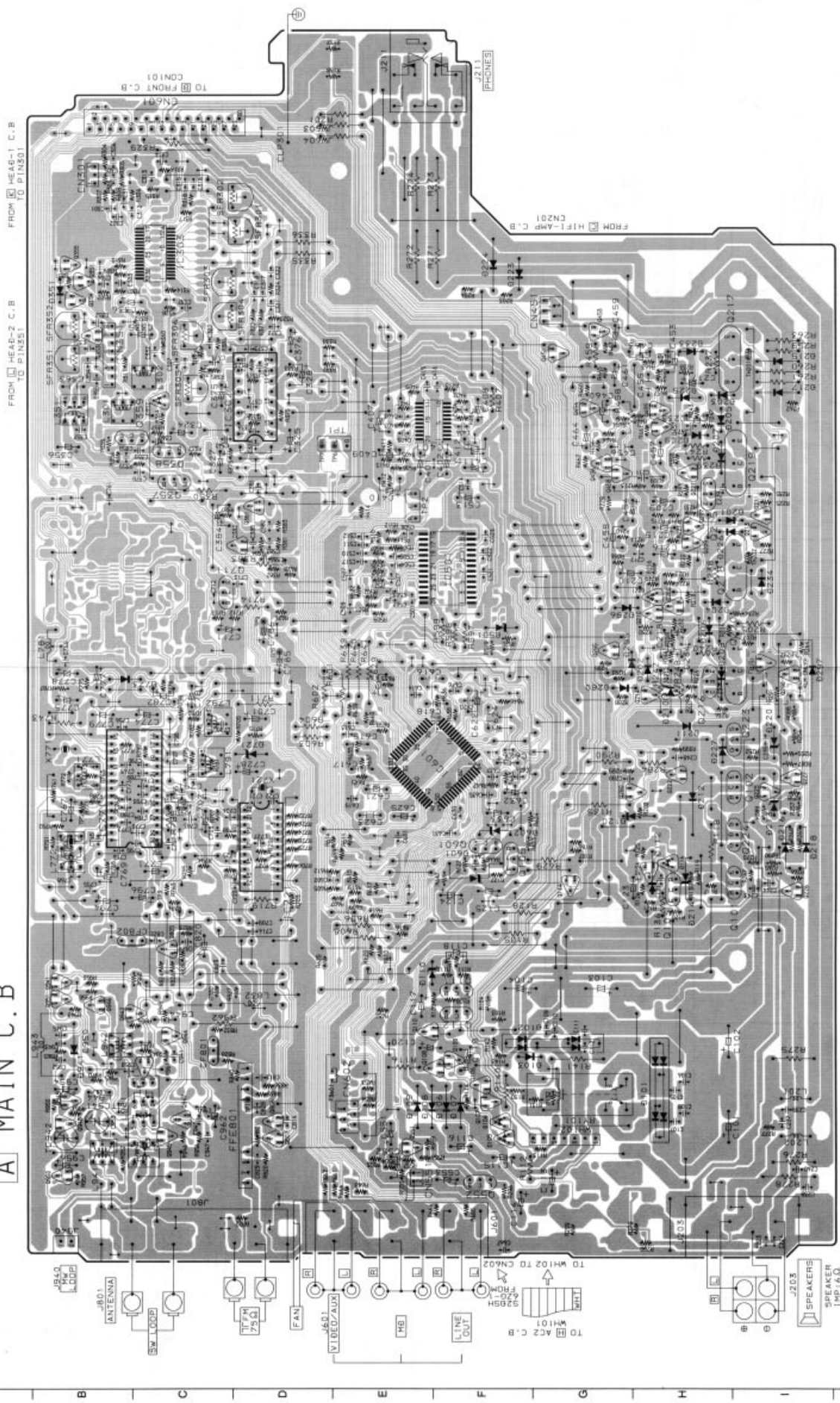


チップ抵抗
Chip resistor

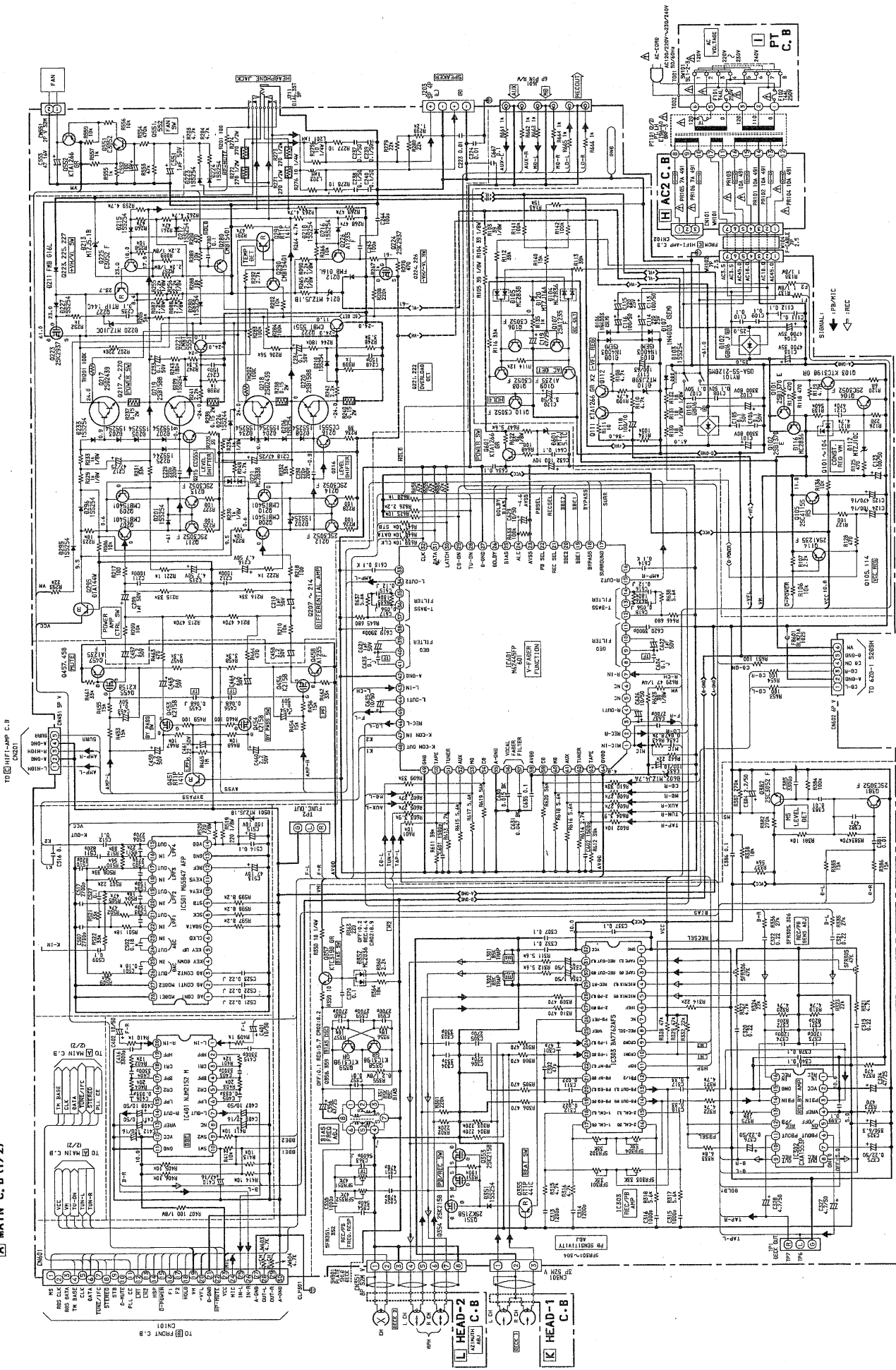
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

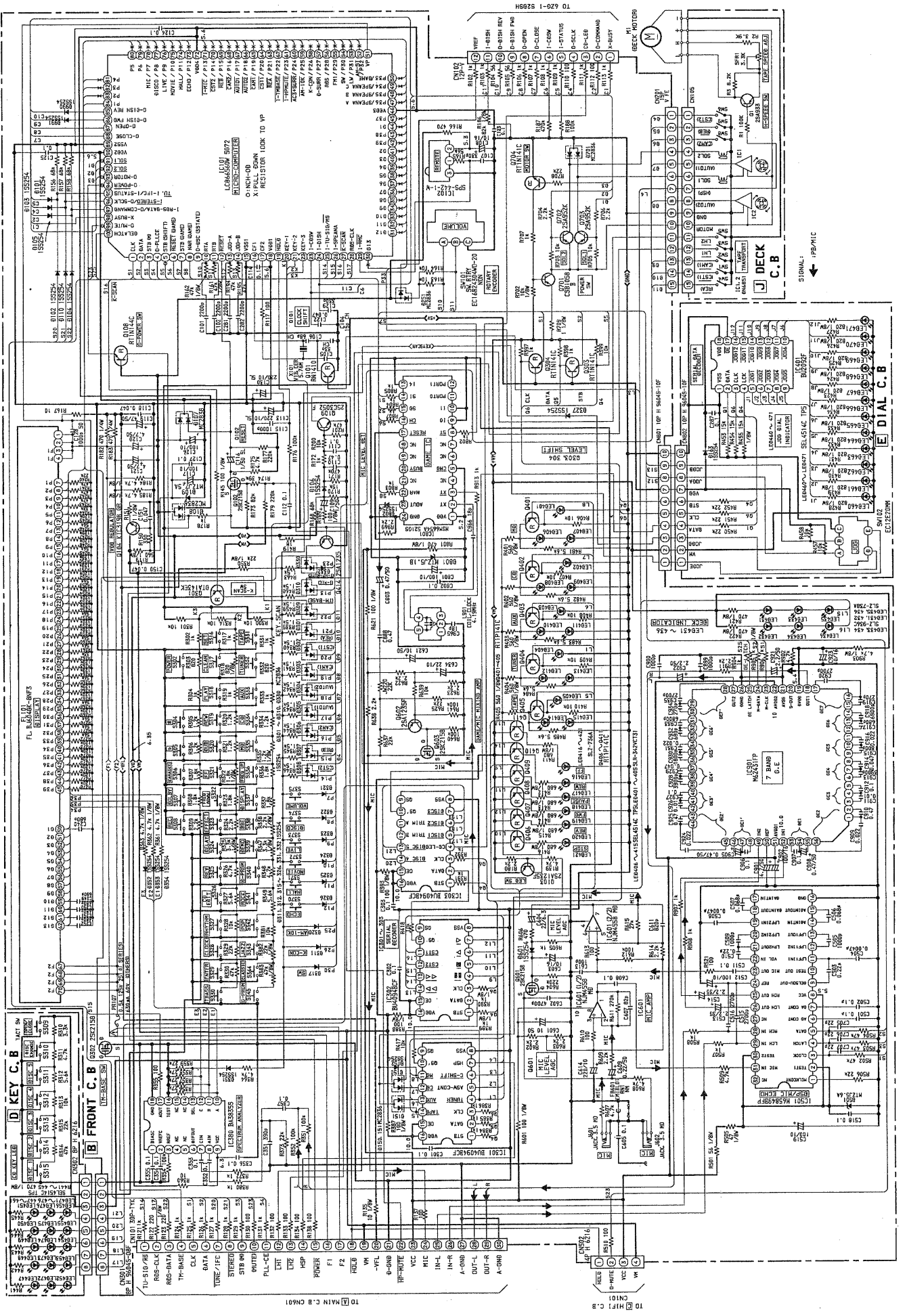


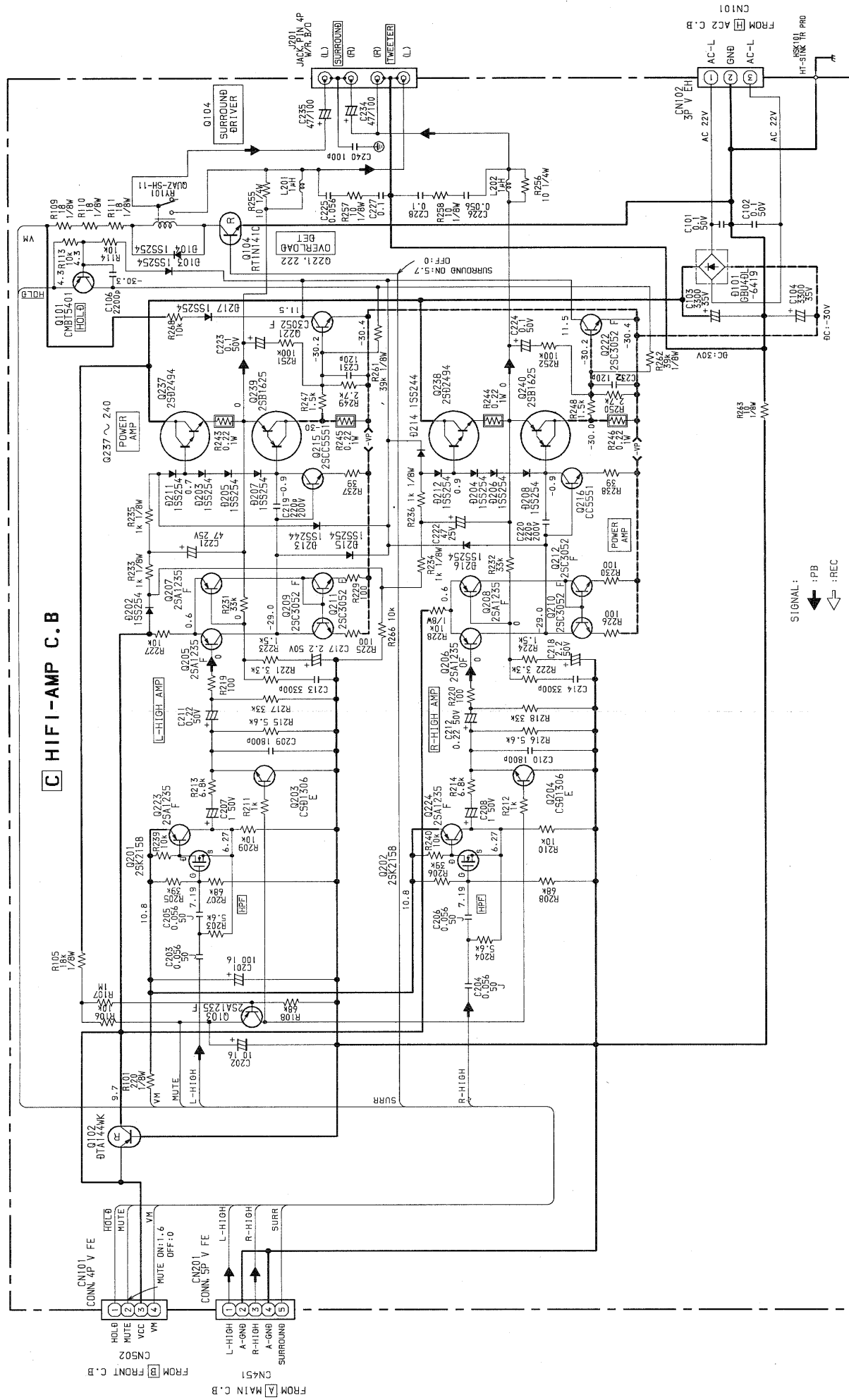
A MAIN C.B.

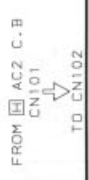


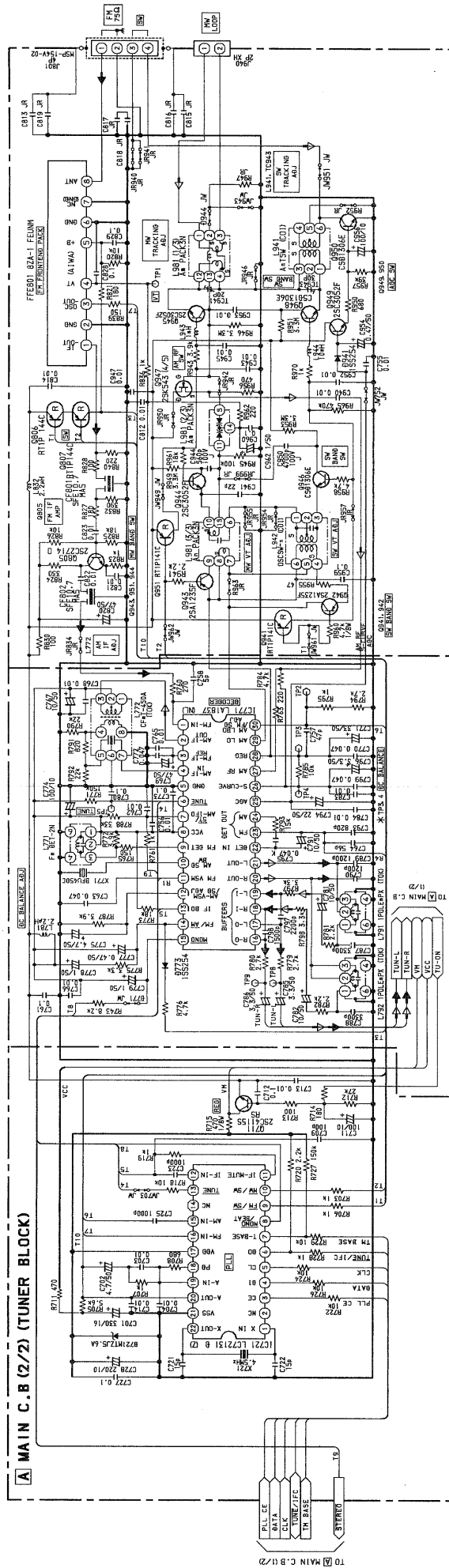
A MAIN C. B (1/2)



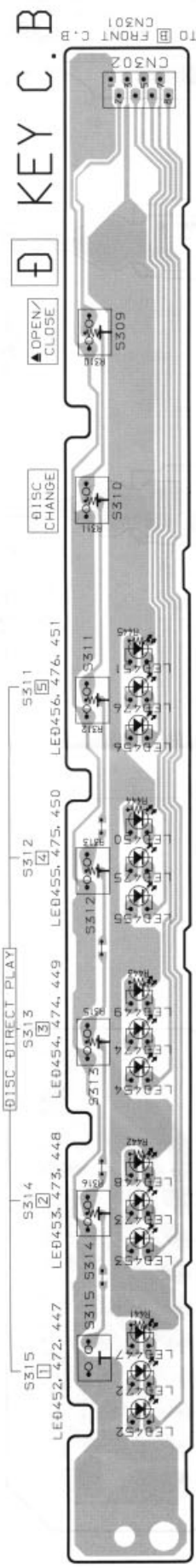




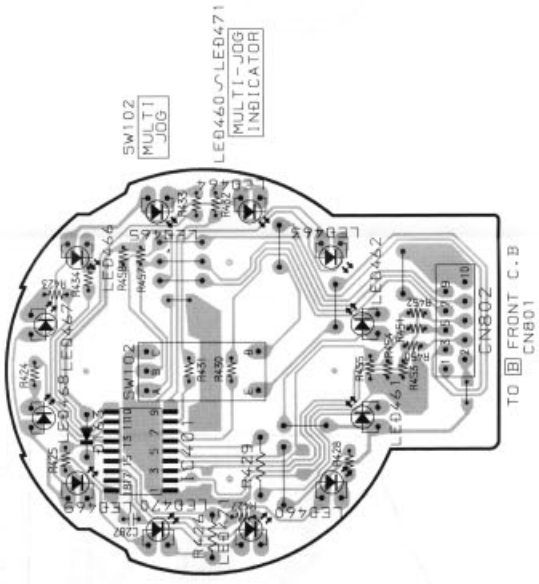




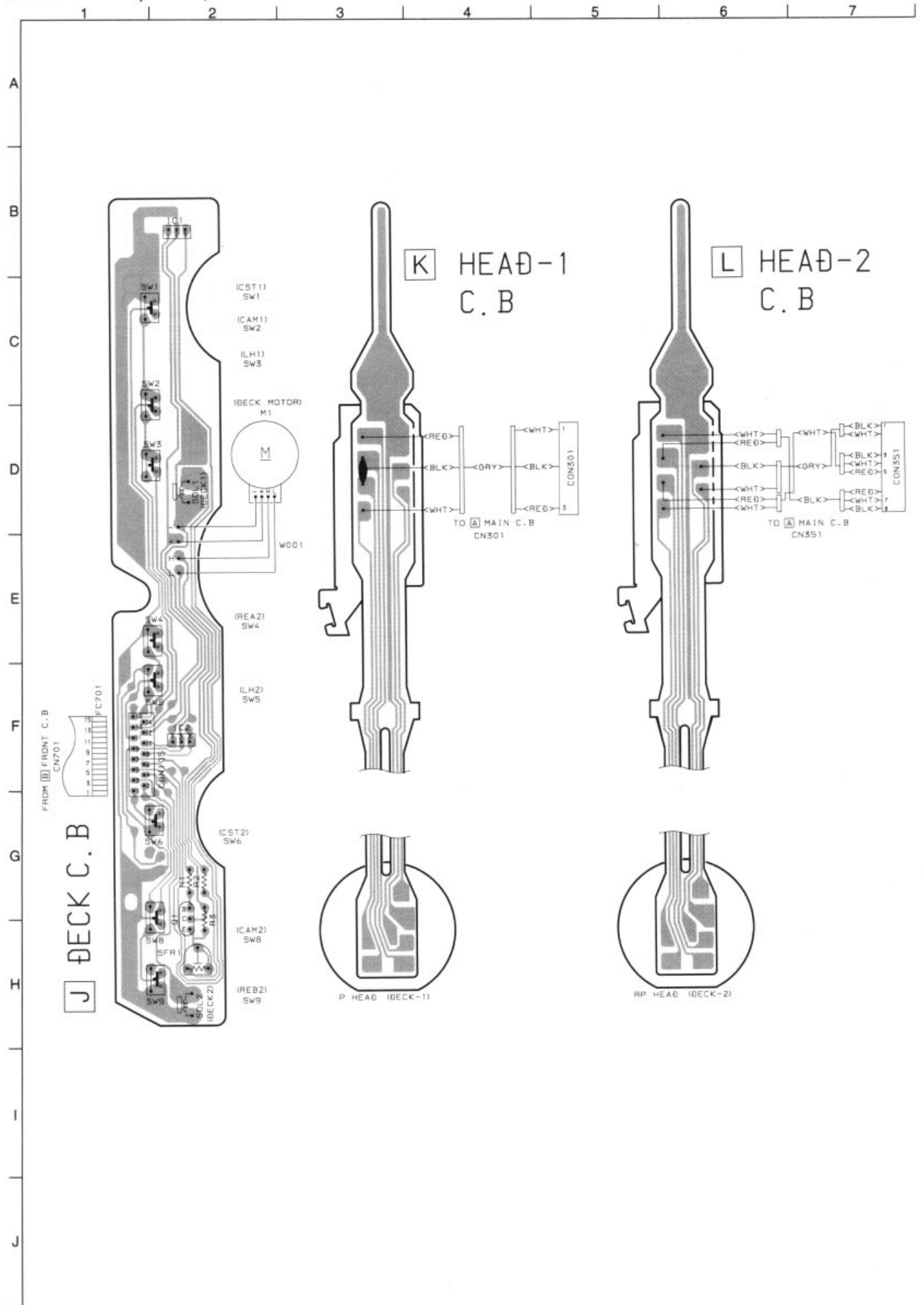
1 2 3 4 5 6 7 8 9 10 11 12 13 14

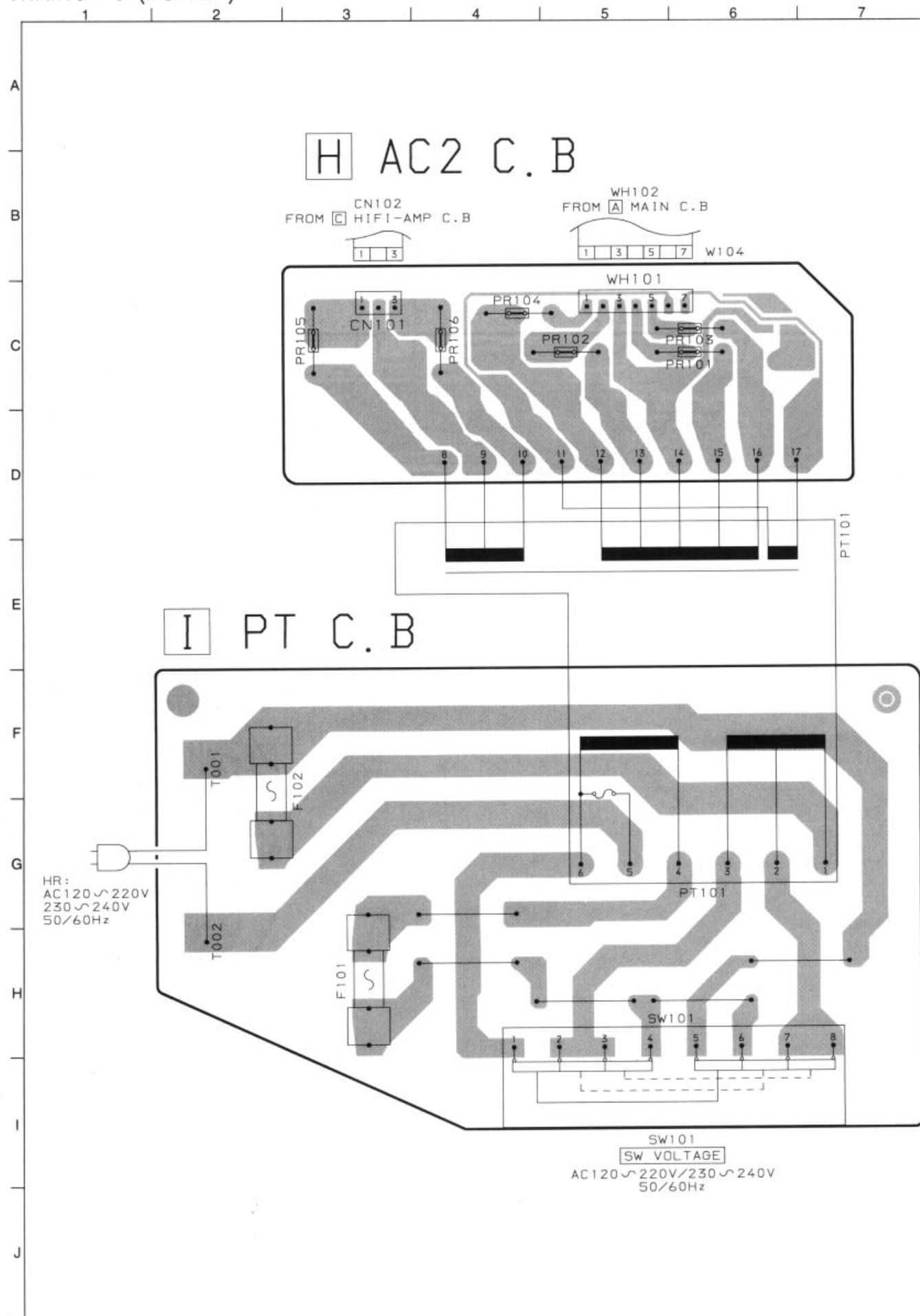


E DIAL C.B.

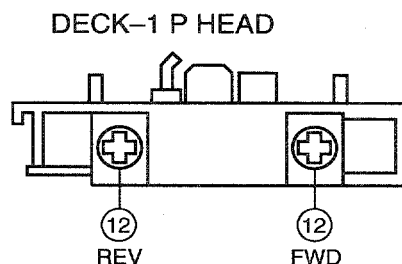
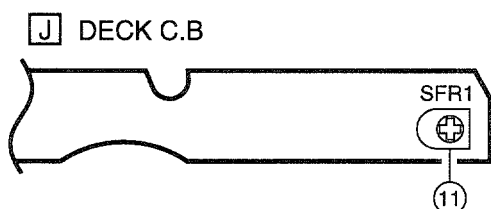
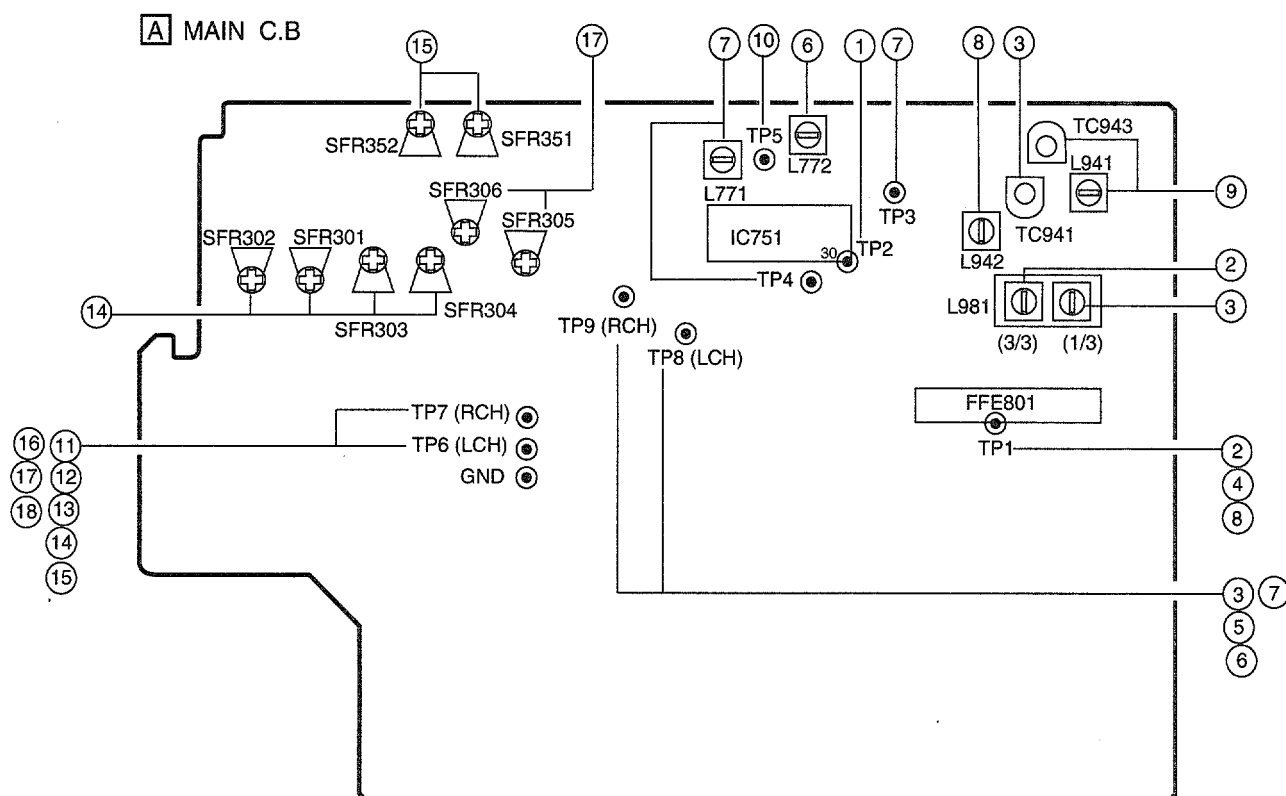


WIRING - 5 (DECK)





ADJUSTMENT <TUNER / DECK>



< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2
Method : Set to AM 1602kHz and check that the test point is 2052kHz $\pm$ 45Hz.
2. MW VT Adjustment
Settings : • Test point : TP1
• Adjustment location : L981(3/3)
Method : Set to MW 1710kHz and adjust L981(3/3) so that the test point becomes 8.5V $\pm$ 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.
3. MW Tracking Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L981(1/3) 603kHz
TC941 1404kHz
Method : Set up TC941 to center before adjustment. The level at 603 kHz is adjusted to MAX by L981(1/3). Then the level at 1404 kHz is adjusted to MAX by TC941.
4. FM VT Check
Settings : • Test point : TP1
Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
Set to FM 87.5MHz and check that the test point is more than 0.5V.
5. FM Tracking Check
Settings : • Test point : TP8(Lch), TP9(Rch)
Method : • Set to FM 98.0MHz and check that the test point is less than 9.0dB.
6. AM IF Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L772 450kHz
7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
• Test point : TP8, TP9 (Distortion)
• Adjustment location : L771
• Input level : 54dB

Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
Next, check that the distortion is less than 1.3%

8. SW VT Adjustment

Settings : • Test point : TP1
• Adjustment location : L942

Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes $7.0V \pm 0.05V$. Then set to SW 5.9MHz and check that the test point is more than 0.3V.

9. SW Tracking Adjustment

Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L941 5.9MHz
TC943 17.9MHz

Method : Set up TC943 to center before adjustment.
The level at 5.9MHz is adjust to MAX by L941.
Then the level at 17.9MHz is adjust to MAX by TC943.

10. Auto Stop Level Check

MW

Settings : • Test point : TP5
• Input level : 52dB

Method : Set to AM 1000kHz and check that the auto stop is at 52dB +10dB / -15dB.

FM

Settings : • Test point : TP5
• Input level : 25dB

Method : Set to FM 98.0MHz and check that the auto stop is at $25dB \pm 10dB$.

< DECK SECTION >

11. Tape Speed Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-100
• Test point : TP6(Lch), TP7(Rch)
• Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000Hz \pm 5Hz$.

12. Head Azimuth Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-300
• Test point : TP6(Lch), TP7(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.

13. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-300
• Test point : TP6(Lch), TP7(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 within 2dB.

14. PB Sensitivity Adjustment (DECK 1, DECK 2)

Settings : • Test tape : TTA-200
• Test point : TP6(Lch), TP7(Rch)
• Adjustment Location : SFR301 (DECK1,Lch)
SFR302 (DECK1,Rch)
SFR303 (DECK2,Lch)
SFR304 (DECK2,Rch)

Method : Play back the test tape and adjust SFRs so that the output level at TP6,TP7 becomes $245mV \pm 10mV$.

15. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602 (Normal)
• Test point : TP6(Lch), TP7(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 TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0dB \pm 0.5dB$ with respect to that of the 1kHz signal.

16. REC/PB Frequency Response Check

Settings : • Test tape : TTA-615 (CrO2)
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz / 10kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 17mV. Record and play back the 1kHz and 10kHz signals and check that the output is $0dB \pm 2dB$.

17. REC/PB Sensitivity Adjustment

Settings : • Test tape : TTA-602 (Normal)
• Test point : TP6(Lch), TP7(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 the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and adjust SFRs so that the output of the 1kHz signals becomes $0 \pm 0.5dB$.

18. REC/PB Sensitivity Check

Settings : • Test tape : TTA-615 (CrO2)
• Test point : TP6(Lch), TP7(Rch)
• Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 170mV. Record and play back the 1kHz signals and check that the output is $0 \pm 1.5dB$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : Less than 10 / 9 / 9dB
(THD 3%) [at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :
Less than 35dB
[at 98.0MHz]
Signal to noise ratio : Mono : More than 72dB
Stereo : More than 66dB
[at 98.0MHz]
Distortion : Mono : Less than 1.2%
Stereo : Less than 2.0%
[at 98.0MHz]
Auto stop level : 25dB $\pm$ 10dB [at 98.0MHz]
Stereo separation : More than 30dB [at 98.0MHz]
Intermediate frequency : 10.7MHz

<MW SECTION>

Sensitivity : Less than 60 / 58 / 58dB
(S/N 20 dB) [at 600 / 1000 / 1400kHz]
Signal to noise ratio : Mono : More than 36dB [at 1000kHz]
Stereo : More than 34dB [at 1000kHz]
Distortion : Mono : Less than 1.5% [at 1000kHz]
Stereo : Less than 4.0% [at 1000kHz]
Auto stop level : 52dB +10/-15dB
[at 1000kHz]
Stereo separation : More than 15dB [at 1000kHz]
Intermediate frequency : 450kHz

<SW SECTION>

Sensitivity : Less than 42dB (5.9MHz)
(S/N 20dB) Less than 38dB (12.0MHz/17.9MHz)
Distortion : Less than 10.0% (12.0MHz)
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz $\pm$ 45Hz
Wow & flutter : Less than 0.15% (W.R.M.S)
Take-up torque : 30 ~ 55g-cm (FWD, REV)
F.F torque : 75 ~ 160g-cm
REW torque : 75 ~ 160g-cm
Back tension : 2 ~ 7g-cm (FWD, REV)
PB output level : 300mV $\pm$ 3dB (SP OUT 2V)
REC/PB output level : -3.0dB $\pm$ 1dB (NORM)
-3.5dB $\pm$ 1dB (CrO₂)
(SP OUT 2V)
Distortion (REC/PB) : Less than 2.0% (NORM, CrO₂)
Noise level (PB) : Less than 2.0mV(NORM, SP OUT 2V)
Noise level (REC/PB) : Less than 3.0mV(NORM, SP OUT 2V)
Erasing ratio : More than 60dB (at 125Hz, +10VU)
Test tape : TTA-602 (NORMAL)
TTA-615 (CrO₂)

IC DESCRIPTION

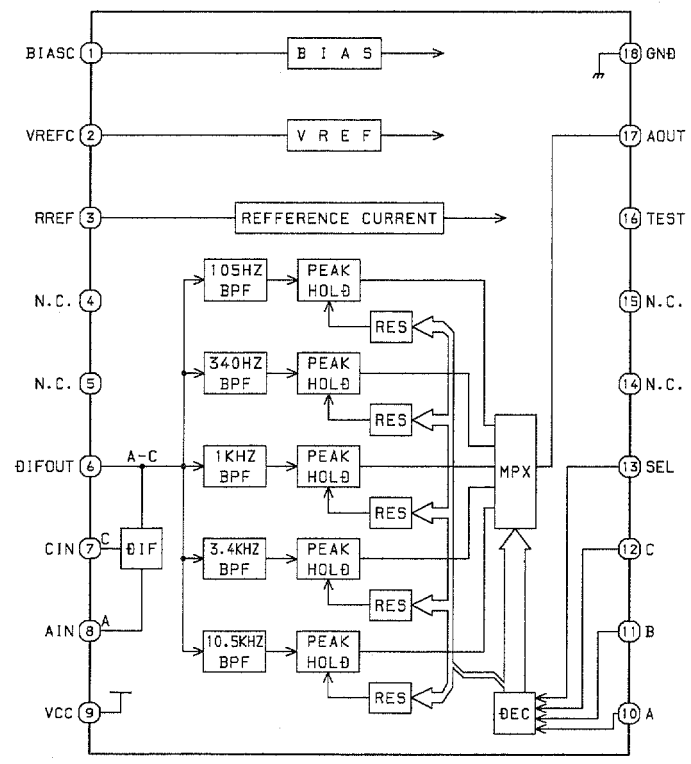
IC, LC866560W-5G72

Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN, FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB	O	Latch strobe output for MAIN PWB.
4	O-PLL CE	O	PLL IC chip enable.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	RESET (GAME)	I	Reset input for Sound IC.
7	STB (GAME)	O	Latch strobe output for Sound IC.
8	I-NAR (GAME)	I	Sound IC NAR input.
9	O-DSC	O	Serial data output for PROLOGIC PWB. (Not connected)
10	RT A	I	Main volume rotary encoder input A.
11	RT B	I	Main volume rotary encoder input B.
12	RESET	I	Reset input.
13	JOG A	I	Dial jog rotary encoder input A.
14	JOG B	I	Dial jog rotary encoder input B.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	HOLD	I	Power failure detected input "L" to stop clock and main memory."H" normal operation.
20	KEY-1	I	KEY input. (A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-DISH	I	CD turntable sensor input.
25	I-RDS SIG/MS	I	RDS signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	K-SCAN	O	Key scan output (active low).
28	I-RDS-CLK	I	Tuner RDS clock input.
29	I-RMC	I	System remote control signal input.
30 ~ 41	G13 ~ G2	O	FL GRID output G2~G13.
42, 43	P38 ~ P39	O	FL SEGMENT output P39, P38.
44	G1	O	FL GRID output G1.
45	P37	O	FL SEGMENT output P37.
46	VDD3	–	Power supply input.
47	SPEANA-A/P36	O	Spectrum analyzer band switching output /FL segment P36 output.
48	SPEANA-B/P35	O	Spectrum analyzer band switching output /FL segment P35 output.
49	SPEANA-C/P34	O	Spectrum analyzer band switching output /FL segment P34 output.
50	P33/GAME	O	FL segment P33 output / GAME key input.
51	-VFL	–	Power supply input for FL display.
52	P32/AM-ST	I/O	FL segment P32 output / AM-ST input to diode.
53	P31/LW	I/O	FL segment P31 output / LW input to diode.
54	P30/SW	I/O	FL segment P30 output / SW input to diode.

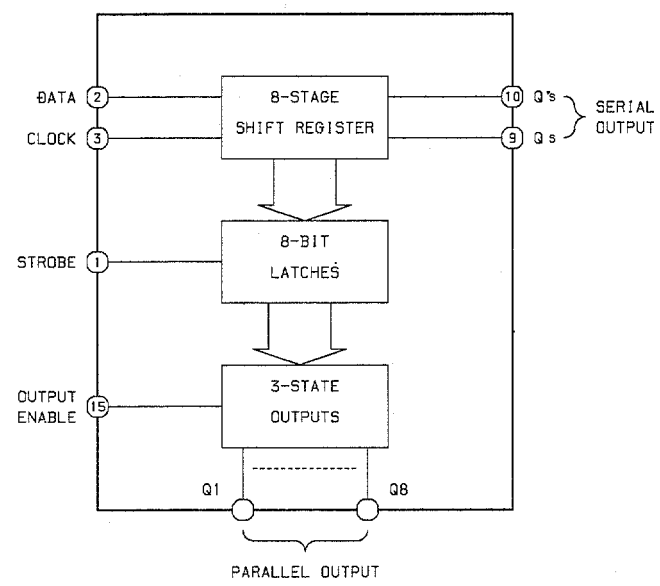
Pin No.	Pin Name	I/O	Description
55	P29/FM 1	I/O	FL segment P29 output / FM1 (OIRT) input to diode.
56	P28/RDS	I/O	FL segment P28 output / RDS input to diode.
57	P27/D-SURR	I/O	FL segment P27 output / SURR input to diode.
58	P26/K-CON	I/O	FL segment P26 output / K-CON input to diode.
59	P25/AM10K	I/O	FL segment P25 output / AM 10kHz input to diode.
60	P24/AC-3 SURR	I/O	FL segment P24 output / AC3 SURR input to diode.
61	P23/I-HP MUTE	I/O	FL segment P23 output / Headphone insert detect input (active low)
62	P22/I-TM BASE	I/O	FL segment P22 output / Time-base clock (8Hz) input.
63	P21/RE $\overline{A}$	I/O	FL segment P21 output / DECK2 side A record OK switch data input.
64	P20/CST 1	I/O	FL segment P20 output / DECK1 cassette detect switch data input.
65	P19/CAM 1	I/O	FL segment P19 output / DECK1 CAM switch data input.
66	P18/AUTO 2	I/O	FL segment P18 output / DECK2 AUTO stop signal input.
67	P17/AUTO 1	I/O	FL segment P17 output / DECK1 AUTO stop signal input.
68	P16/CAM 2	I/O	FL segment P16 output / DECK2 CAM switch data input.
69	P15/RE $\overline{B}$	I/O	FL segment P15 output / DECK2 side-B record OK switch data input.
70	P14/CST 2	I/O	FL segment P14 output / DECK2 cassette detect switch data input.
71	P13/I-MIC	I/O	FL segment P13 output / For AUTO VF use, Mic input detect.
72	VDD 4	-	Power supply input.
73	P12/ECHO	I/O	FL segment P12 output / ECHO key detect.
74	P11/HALL	I/O	FL segment P11 output / HALL key detect.
75	P10/MOVIE	I/O	FL segment P10 output / MOVIE key detect.
76	P9/LIVE	I/O	FL segment P9 output / LIVE key detect.
77	P8/DISCO	I/O	FL segment P8 output / DISCO key detect.
78	P7/MIC	I/O	FL segment P7 output / MIC key detect.
79 ~ 84	P6 ~ P1	O	FL segment P1 ~ P6 output.
85	O-DISH-RVS	O	CD turntable reverse rotation output.
86	O-DISH-FWD	O	CD turntable forward rotation output.
87	O-OPEN	O	CD TRAY OPEN data output.
88	O-CLOSE	O	CD TRAY CLOSE data output.
89	VSS2	-	GND.
90	VDD2	-	Power supply input.
91	SOL 1	O	DECK 1 solenoid output.
92	SOL 2	O	DECK 2 solenoid output.
93	O-MOTOR	O	DECK MOTOR ON/OFF output.
94	O-POWER	O	System power supply ON/OFF output.
95	I-IFC.TU/I-STATUS	I	Tune IF count serial data input / Tune input / CD STATUS data input.
96	I-STEREO/SCLK	I/O	Tuner stereo detected input / CD serial clock output.
97	I-RDS-DATA/ O-COMMAND	I/O	RDS data input / CD command output.
98	X-BUSY	I/O	CD I/O busy line.
99	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
100	GE-LATCH	O	GEQ IC M62431FP latch.

IC BLOCK DIAGRAM – 1

IC, BA3835S



IC, BU4094BCF

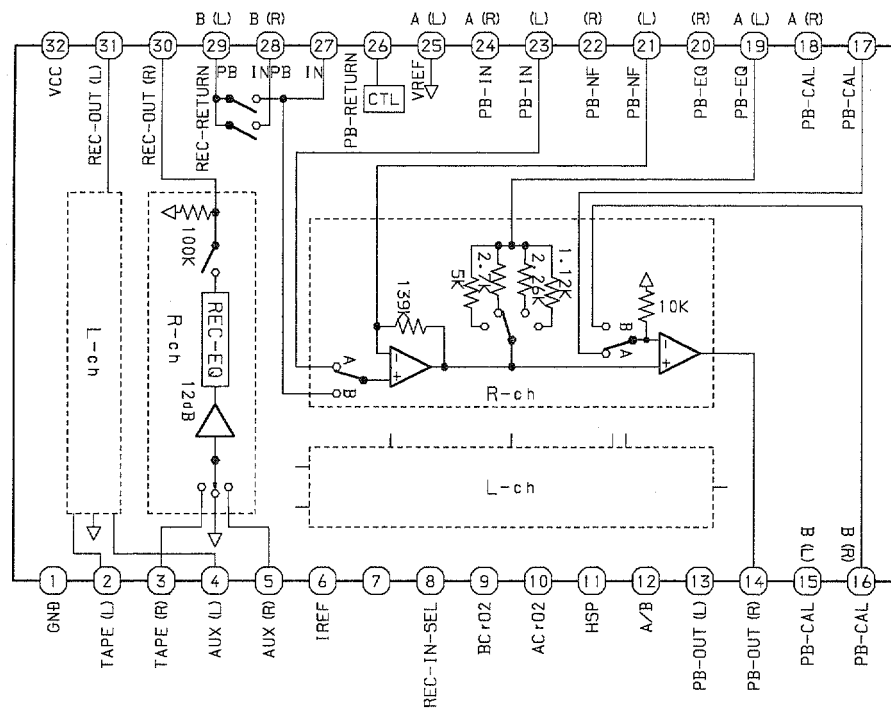


TRUTH TABLE

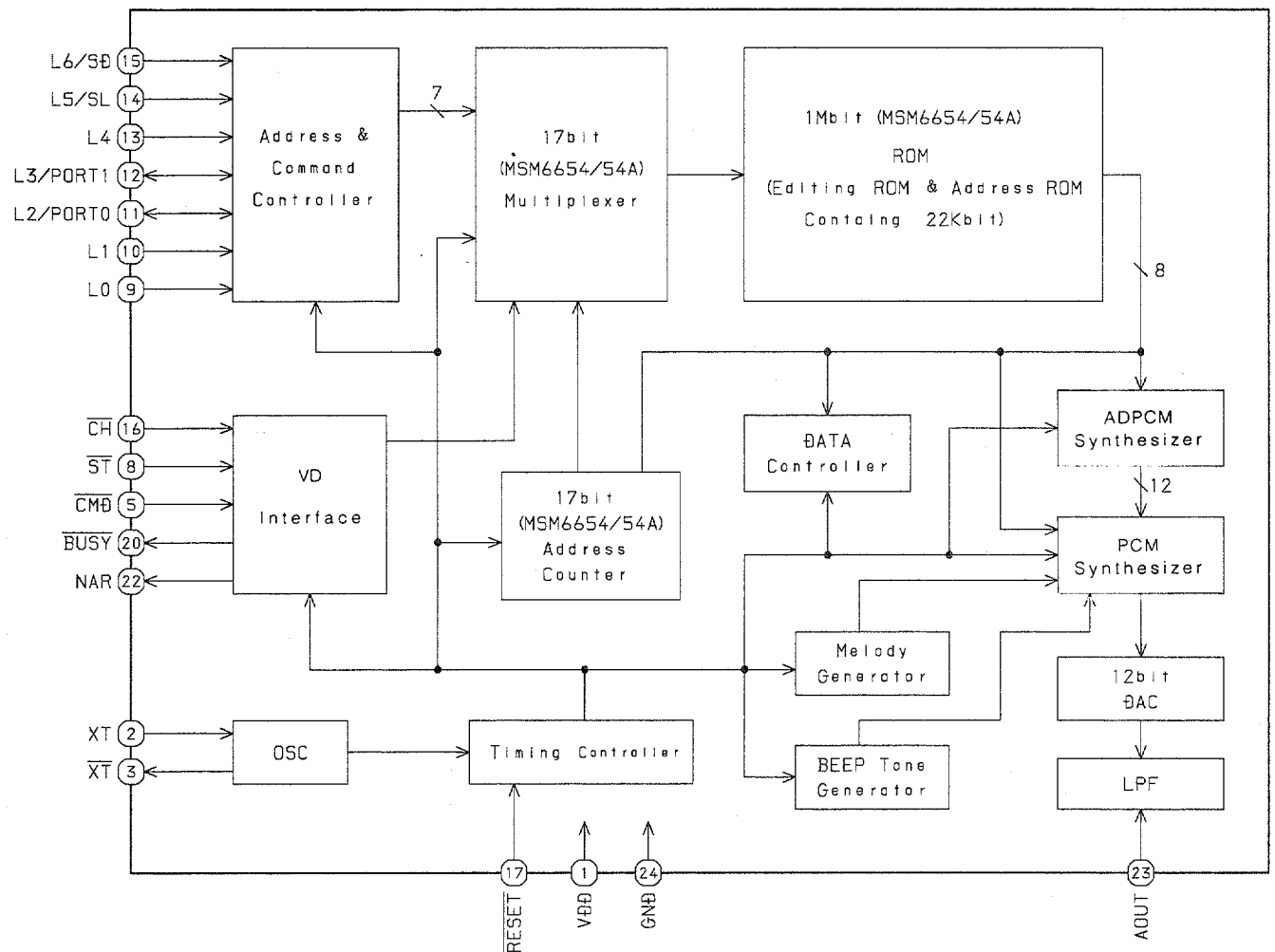
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don't Care

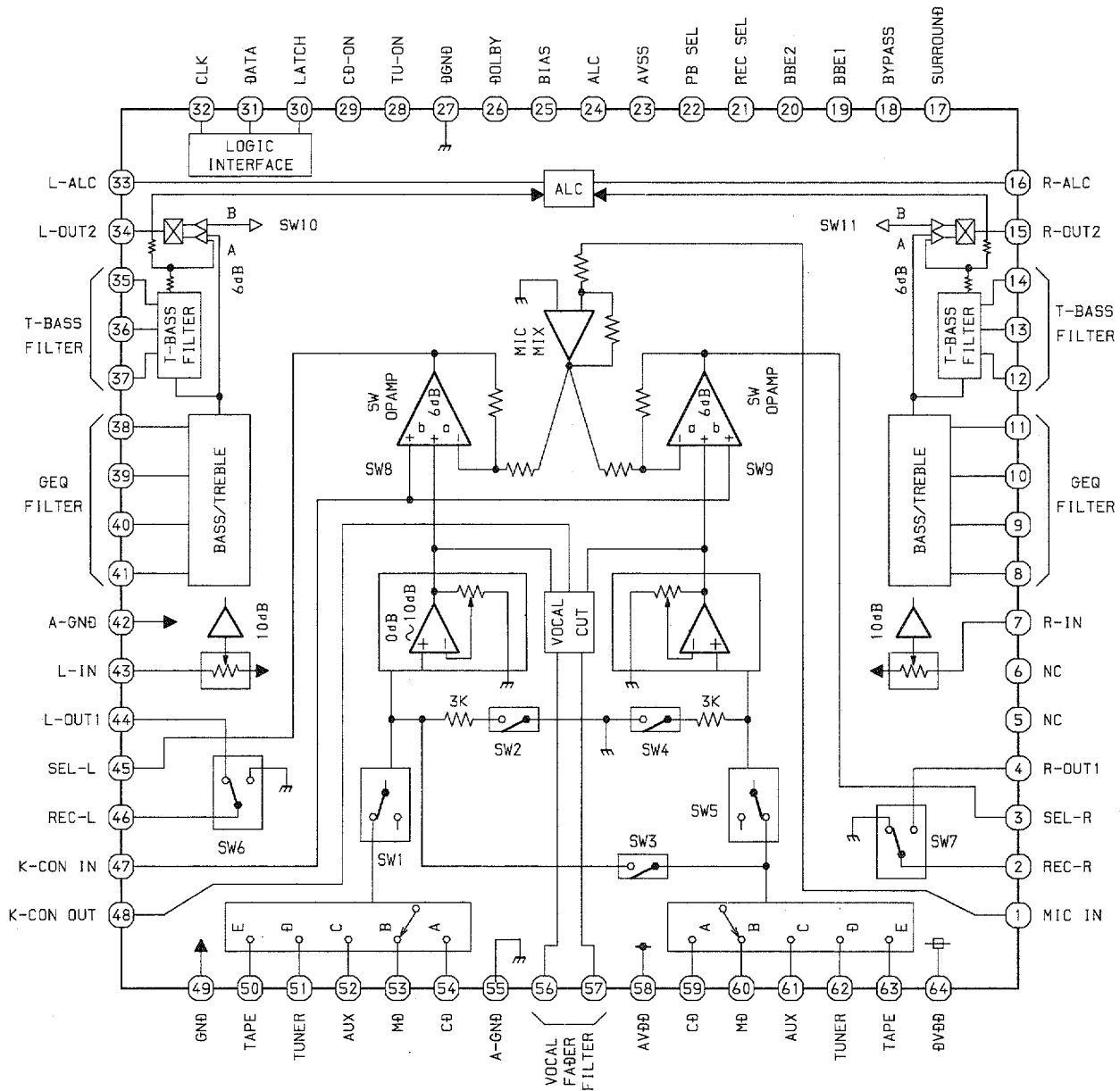
IC, BA7762FS



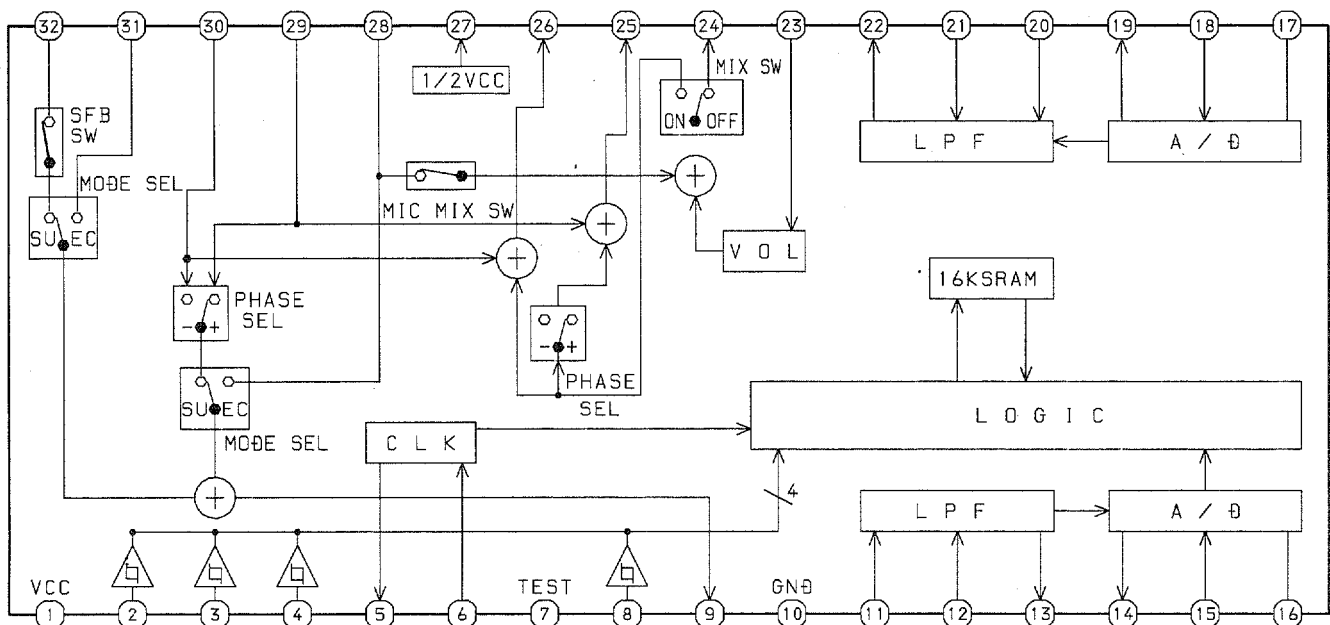
IC, MSM6654A-521GS-K



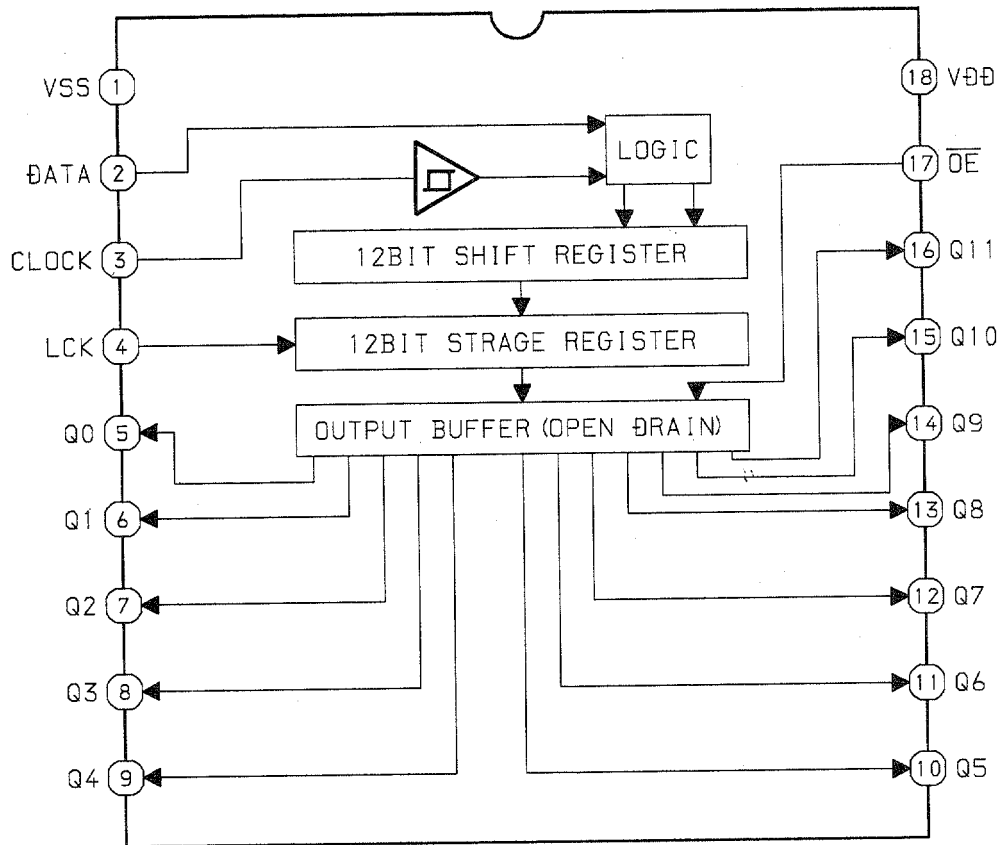
IC, M62445FP-601



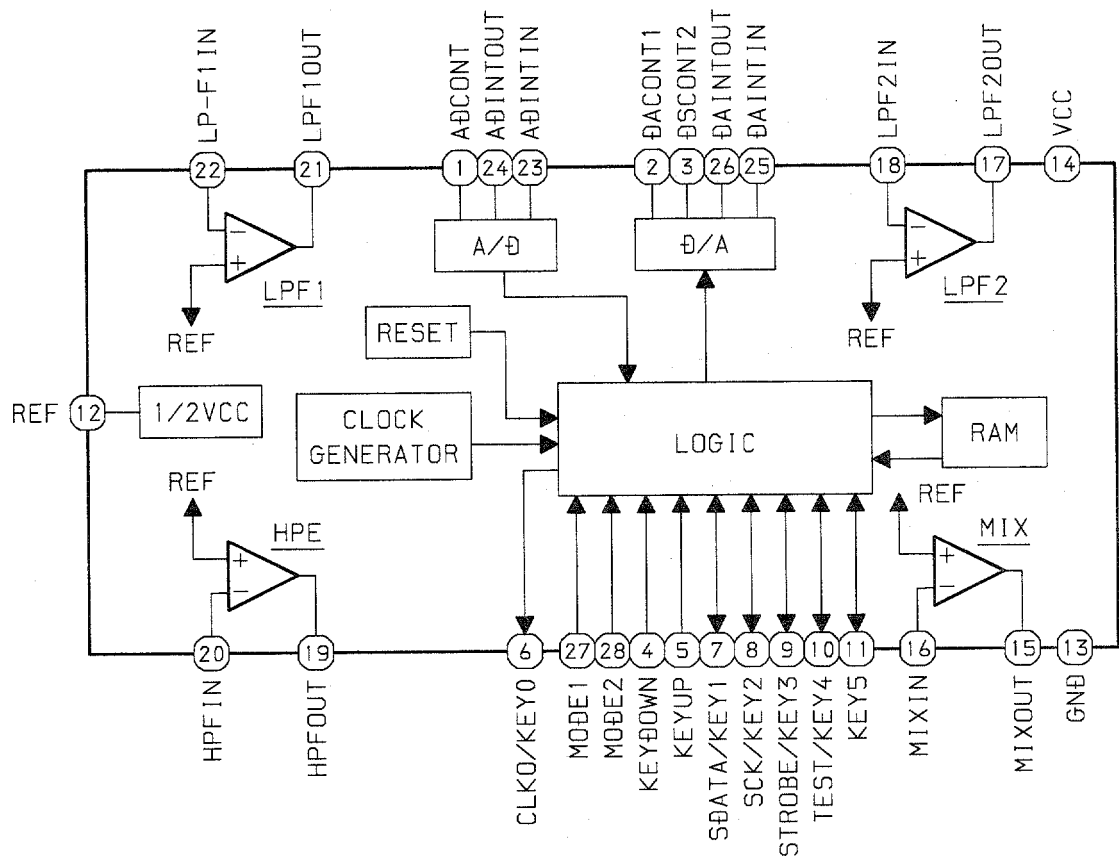
IC, M65849FP



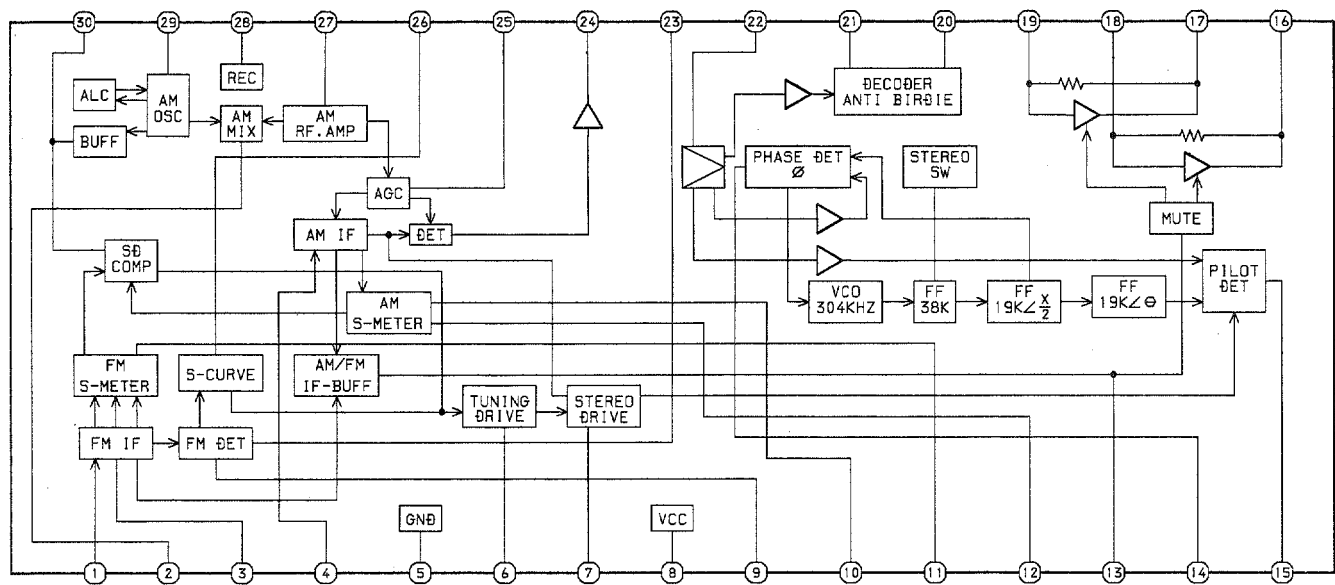
IC, BU2092F



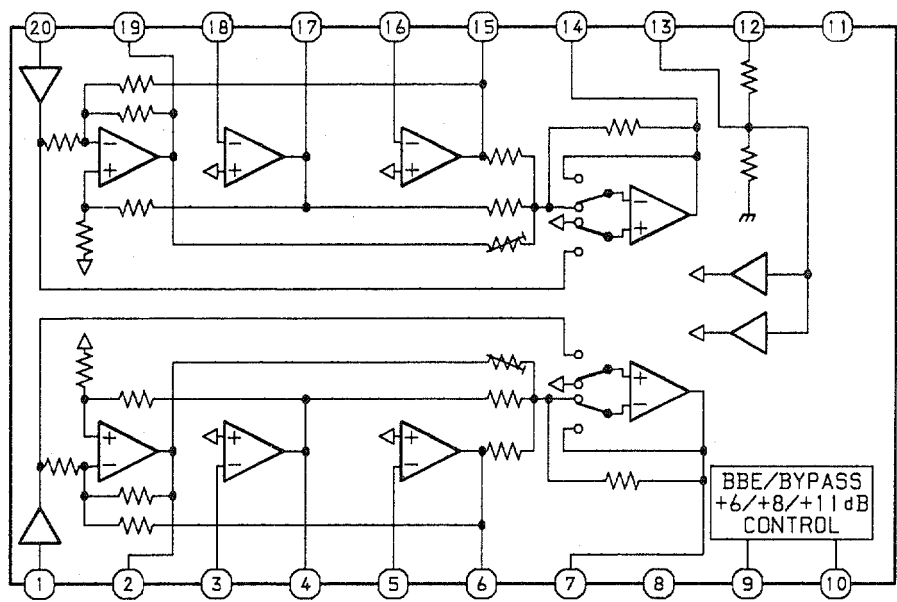
IC, M65847AFP



IC, LA1837



IC, NJM2152M

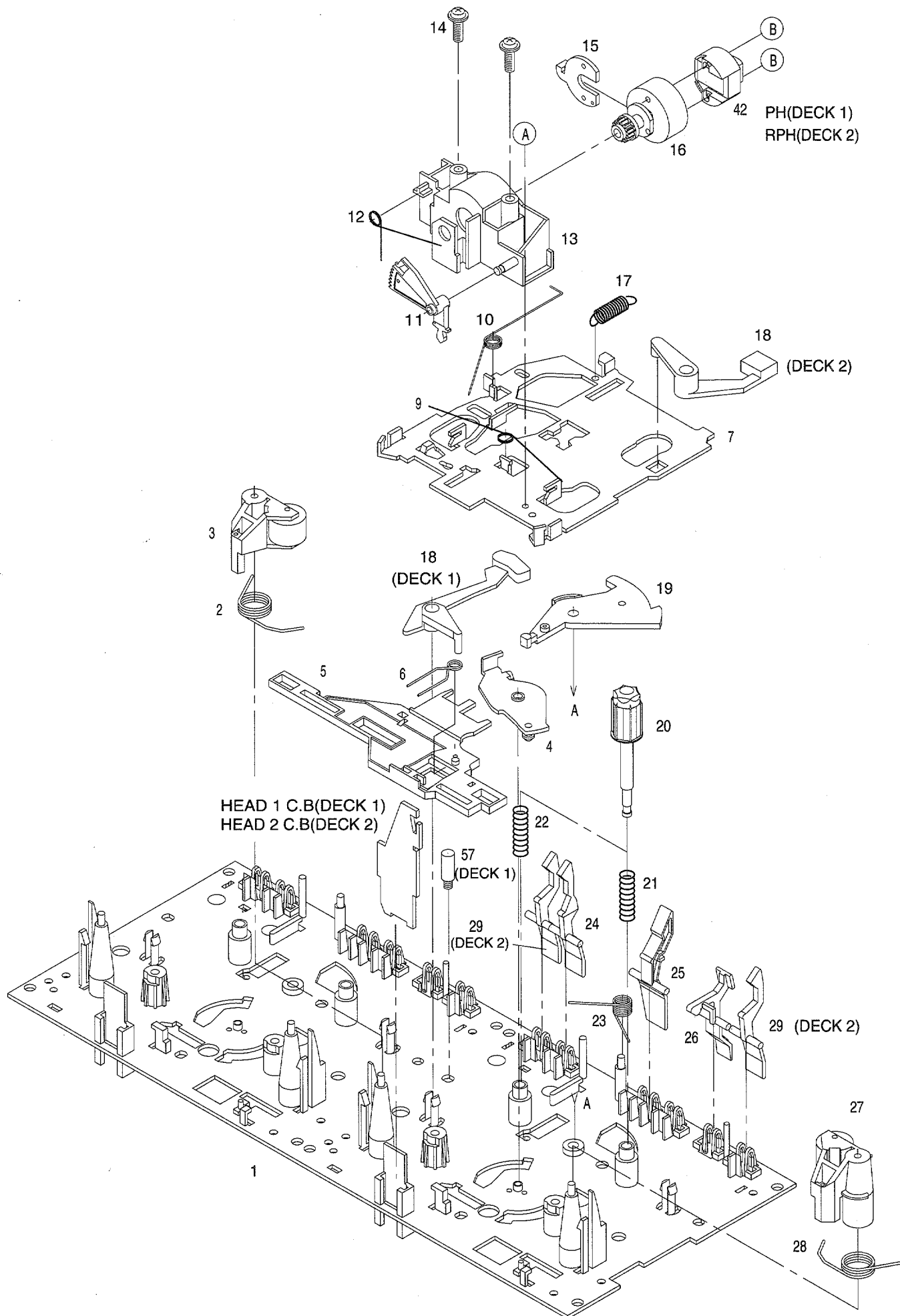


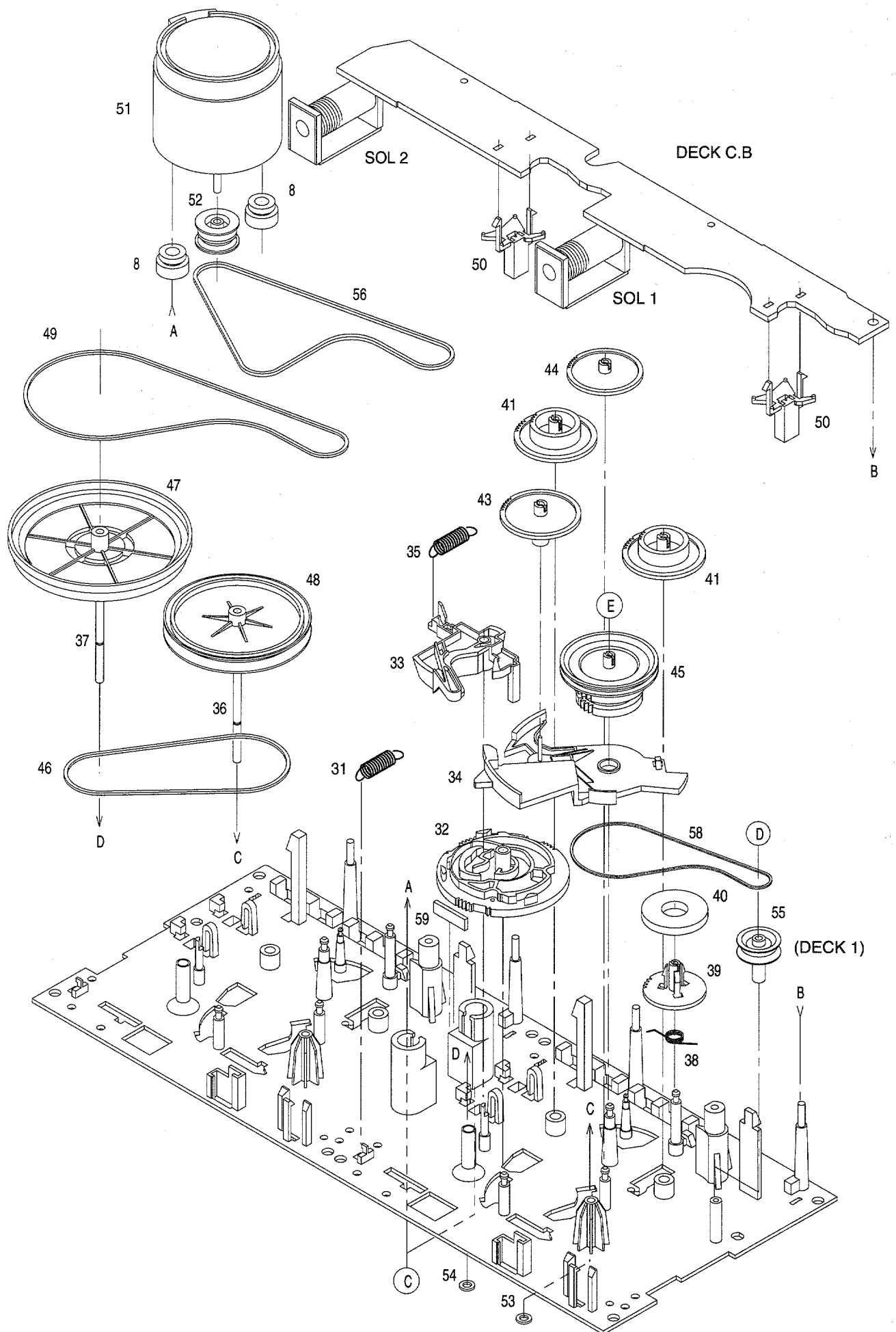
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA3-042-010		WINDOW, TOP
2	86-NFW-014-010		CABI, STEEL
3	87-084-077-010		NYLON RIVET, 3.5-4.5
△ 4	87-050-079-010		AC-CORD ASSY, E
△ 5	87-085-185-010		BUSHING, AC CORD (E)
6	88-NF3-020-010		PANEL, REAR LHJ\$KM<969LH>
6	88-NF3-009-010		PANEL, REAR HRJSTNM<959HR>
6	88-NF3-019-010		PANEL, REAR HRJSTNM 958<958HR>
7	84-ZG1-245-210		CAP, OPTICAL
8	88-NF3-040-010		PANEL, TRAY
9	82-NE6-067-010		BADGE, AIWA 30N
10	86-NF9-224-010		SPR-C, LOCK
11	87-NF4-216-010		HLDR, LOCK 1
12	87-NF4-217-010		HLDR, LOCK 2
13	82-NF5-229-010		PLATE, LOCK
14	88-NF3-050-010		WINDOW, CD
15	88-NF3-051-010		WINDOW, DISP<959HR>
15	88-NF3-056-010		WINDOW, DISP HE 958<958HR>
15	88-NF3-058-010		WINDOW, DISP LH 957<969LH>
16	88-NF3-064-010		KNOB, RTRY: MAIN
17	88-NF3-083-010		KNOB, RTRY JOG
18	88-NF3-046-010		PANEL, FR H
19	88-NF3-091-010		RING, JOG ASSY
20	88-NF3-090-010		RING, FOOT
21	88-NF3-001-010		CABI, FR H
22	87-NF8-220-010		DMPR, 150
23	88-NF3-081-010		KEY, ENTER
24	88-NF3-063-010		KEY, DSP
25	88-NF3-080-110		KEY, JOG
26	88-NF3-086-010		KEY, DUBB
27	88-NF3-066-010		KEY, MIC
28	88-NF3-087-010		KEY, KARAOKE H
29	88-NF3-073-110		KEY, PLAY ASSY
30	88-NF3-067-110		KEY, FUN ASSY
31	88-NF3-062-010		KEY, GEQ
32	88-NF3-060-010		KEY, CD
33	86-NF6-061-010		REFLECTOR, CASS
34	88-NF3-030-010		BOX, CASS L
35	88-NF3-031-010		BOX, CASS R
36	88-NF3-052-010		WINDOW, CASS L
37	88-NF3-053-010		WINDOW, CASS R
38	88-NF3-042-010		PANEL, CASS L
39	88-NF3-043-010		PANEL, CASS R
40	82-NF5-218-010		SPR-T, EJECT 1 (SIN)
41	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
42	88-NF3-061-010		REFLECTOR, CD
43	88-NF3-203-010		GUIDE, LED CD
44	88-NF3-065-010		RING, MAIN
45	88-NF3-216-010		GUIDE, IC (H)
46	88-NF3-206-010		GUIDE, FL
47	88-NF3-205-010		GUIDE, LED PLAY
A	87-067-873-010		BVT2+3-25 W/O SLOT
B	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
C	87-067-975-010		S-SCREW, IT+4-8
D	87-067-688-010		BVTT+3-6
E	87-067-758-010		BVT2+3-12 W/O SLOT
F	87-067-703-010		TAPPING SCREW, BVT2+3-10
G	87-067-689-010		TAPPING SCREW, BVTT+3-8
H	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
I	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
J	87-721-097-410		QT2+3-12 GLD
K	87-067-584-010		TAPPING SCREW, BVT2+3-6
L	87-067-673-010		TAPPING SCREW, BUTT+3-8 (B)
M	87-067-579-010		TAPPING SCREW, BVT2+3-8
N	87-067-680-010		BVIT3B+3-10

TAPE MECHANISM EXPLODED VIEW 1 / 1



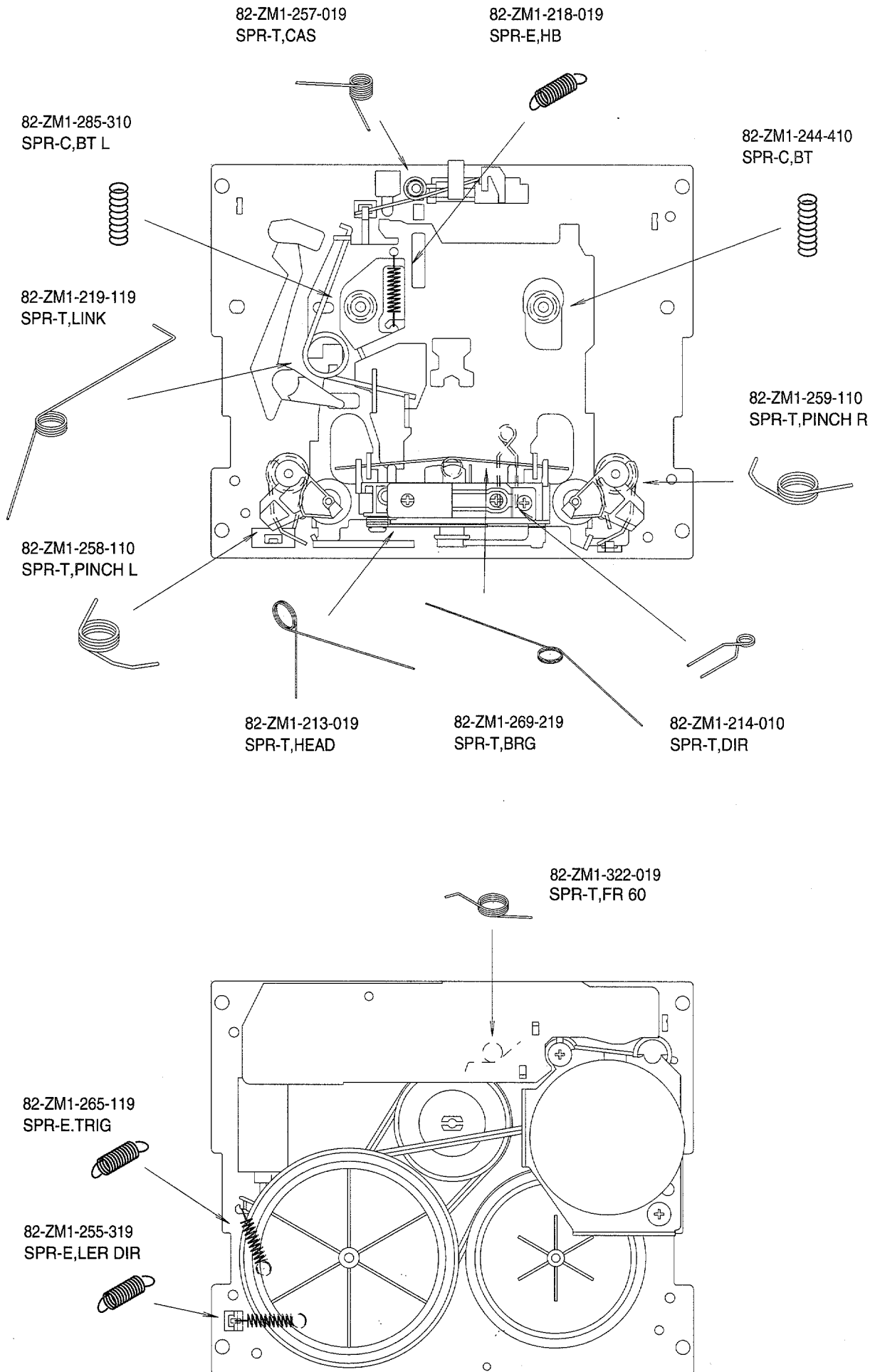


TAPE MECHANISM PARTS LIST 1 / 1

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	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-A90-319-010		HEAD, PH HADKH2 FPC
8	82-ZM3-307-019		CUSH-G, DIA3.7-8-3.2	42	87-A90-320-010		HEAD, RPH HADKH5 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				

SPRING APPLICATION POSITION

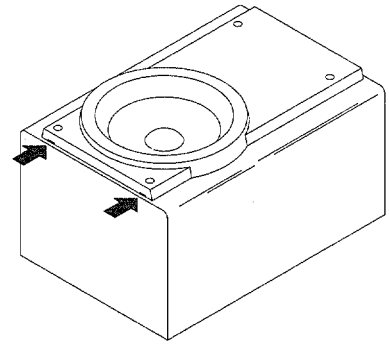


SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

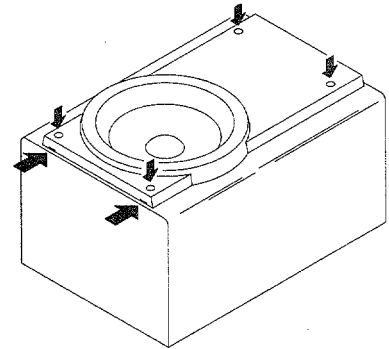
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

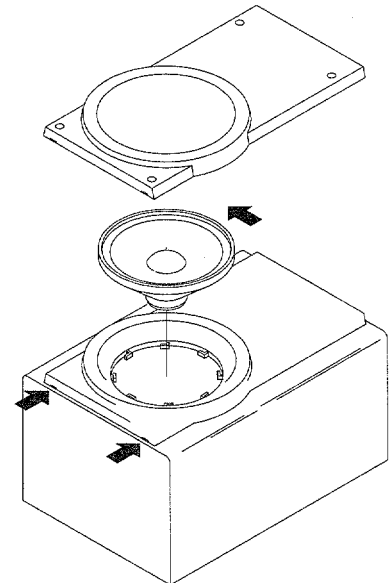
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

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.



SPEAKER PARTS LIST (SX-WNF958)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS0-001-010		PANEL,FR
2	88-NS0-002-010		PANEL,TW R
3	88-NS0-003-010		PANEL,TW L
4	88-NS0-005-010		PANEL,COVER
5	88-NS0-006-010		GRILLE,FRAME ASSY A
6	88-NS5-610-010		SPKR,CORD
7	88-NS5-611-010		SPKR,CORD B/L
8	88-NS3-602-010		SPKR,W 200
9	88-NS5-604-010		SPKR,M 120
10	88-NS5-605-010		SPKR,T 60
11	88-NS0-006-010		GRILLE,FRAME ASSY A

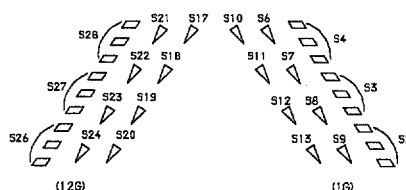
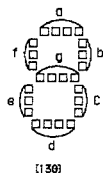
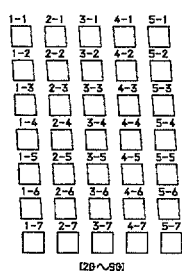
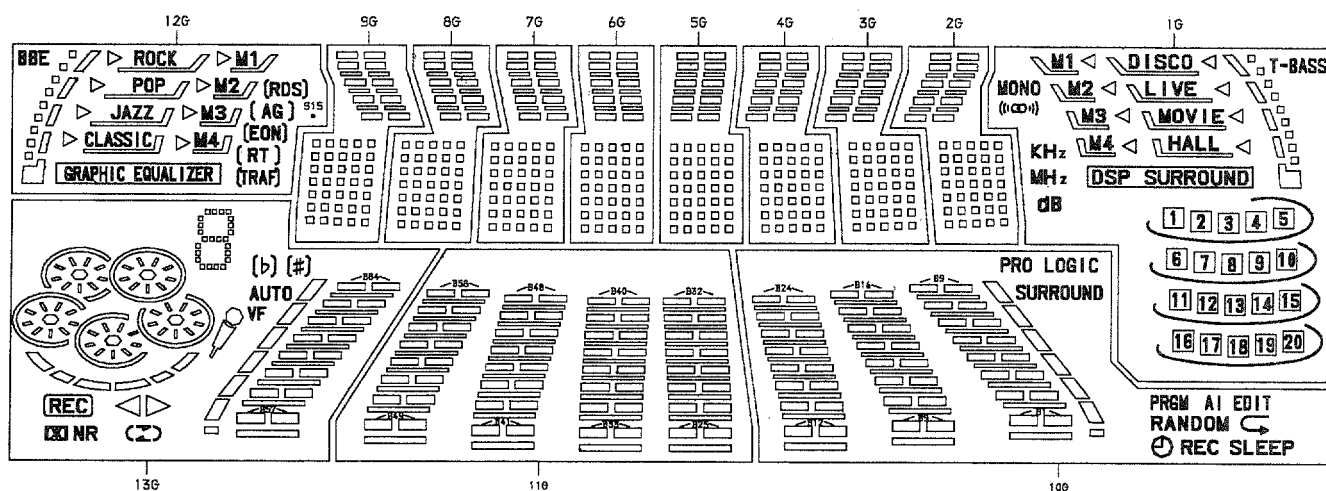
SPEAKER PARTS LIST (SX-WNF959)

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

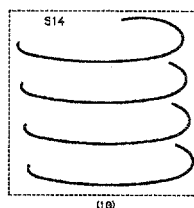
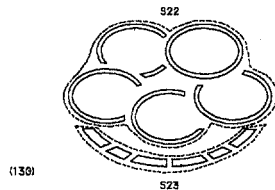
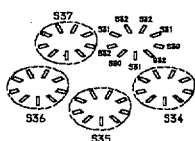
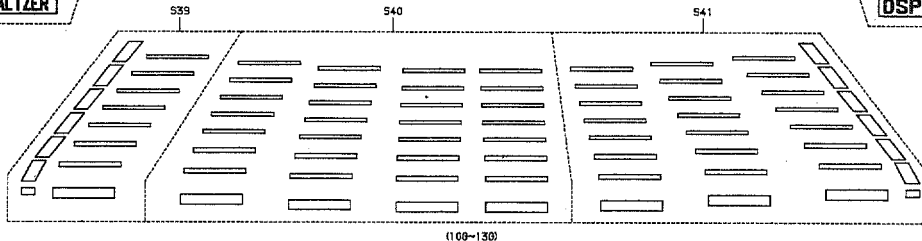
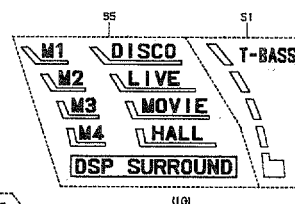
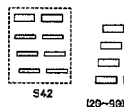
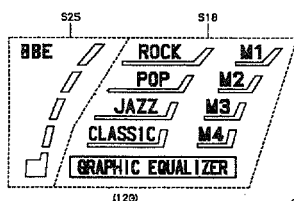
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS3-001-010		PANEL,FR
2	88-NS3-002-010		PANEL,TW R
3	88-NS3-003-010		PANEL,TW L
4	88-NS3-005-010		PANEL,DUCT
5	88-NS3-006-010		PANEL,COVER
6	88-NS3-007-010		PANEL, TOP
7	88-NS3-009-010		HLDR, SP
8	88-NS0-014-010		GRILLE,FRAME ASSY
9	88-NS3-602-010		SPKR,W 200
10	88-NS5-604-010		SPKR,M 120
11	88-NS5-605-010		SPKR,T 60

FL GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



SEGMENT DESIGNATION



BJ6049K
SEGMENT DESIGNATION

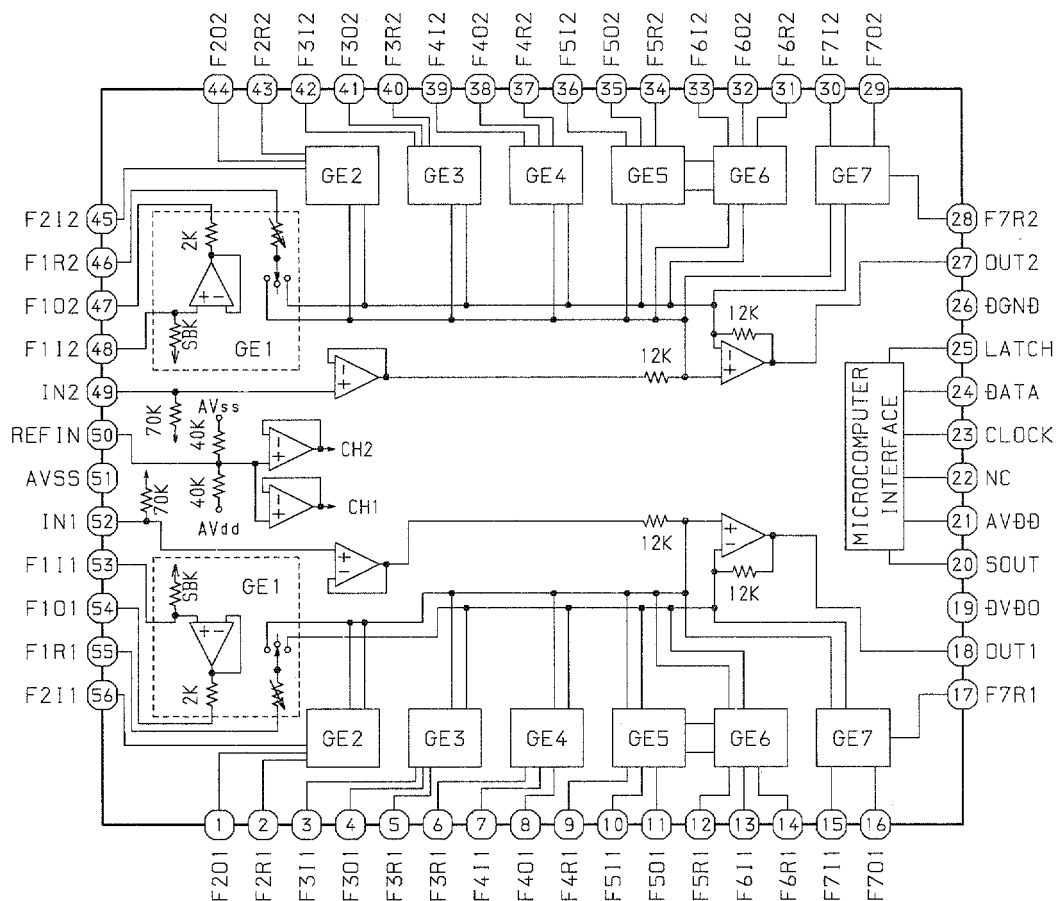
ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	 VF	TRAF	S40	AI	5-7	S1
P2	AUTO	(TRAF)	B32	PRGM	4-7	S2
P3	#	RT	B40	EDIT	3-7	S3
P4	(#)	(RT)	B48	RANDOM	2-7	S4
P5	b	EON	B56		1-7	S5
P6	(b)	(EON)	B31		5-6	S6
P7	S39	AG	B39	REC	4-6	S7
P8		(AG)	B47	SLEEP	3-6	S8
P9		RDS	B55	PRO LOGIC SURROUND	2-6	S9
P10	(	(RDS)	B30	S41	1-6	S10
P11		S17	B38	B8	5-5	S11
P12	)	S18	B46	B16	4-5	S12
P13	REC	S19	B54	B24	3-5	S13
P14	 NR	S20	B29	B7	2-5	MONO
P15	B57	S21	B37	B15	1-5	((∅))
P16	B58	S22	B45	B23	5-4	KHz
P17	B59	S23	B53	B6	4-4	MHz
P18	B60	S24	B28	B14	3-4	dB
P19	B61	S25	B36	B22	2-4	5
P20	B62	S26	B44	B5	1-4	4
P21	B63	S27	B52	B13	5-3	3
P22	B64	S28	B27	B21	4-3	2
P23	S30	S16	B35	B4	3-3	1
P24	S31	S15	B43	B12	2-3	10
P25	S32	—	B51	B20	1-3	9
P26	S33	—	B26	B3	5-2	8
P27	S34	—	B34	B11	4-2	7
P28	S35	—	B42	B19	3-2	6
P29	S36	—	B50	B2	2-2	15
P30	S37	—	B25	B10	1-2	14
P31	S38	—	B33	B18	5-1	13
P32	a	—	B41	B1	4-1	12
P33	b	—	B49	B9	3-1	11
P34	f	—	—	B17	2-1	20
P35	g	—	—	—	1-1	19
P36	c	—	—	—	B65	18
P37	e	—	—	—	B66	17
P38	d	—	—	—	B67	16
P39	—	—	—	—	S42	S14

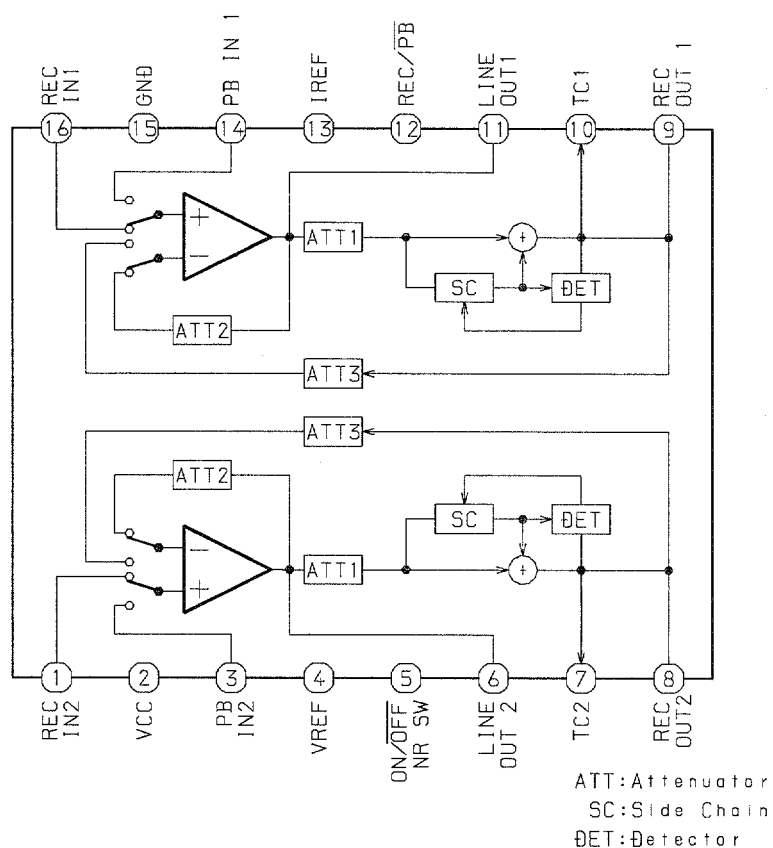
BJ6040K
ANODE CONNECTION

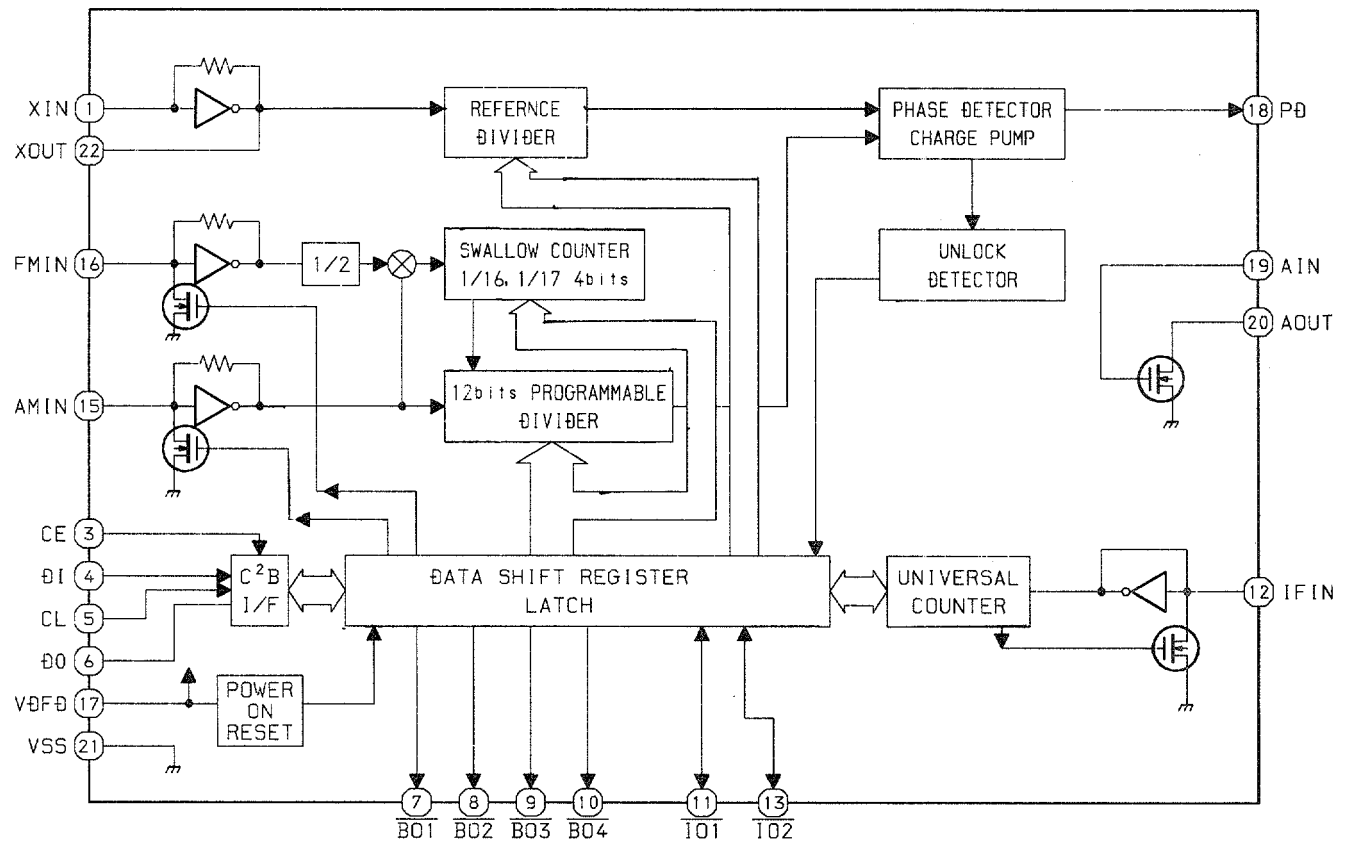
IC BLOCK DIAGRAM – 2

IC, M62431FP



IC, CXA1553P





ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF3-908-010		IB, LH-KIT<LH>
1	88-NF3-902-010		IB, H(BCA) -M<HR>
2	87-043-095-010		ANT, WIRE<HR>
3	87-A90-064-010		FEEDER-ANT, FM(SHS)
4	87-099-789-010		PLUG, ADPTR IR44<HR>
5	87-NF4-655-010		RC UNIT, RC-7AS08
6	87-A90-054-010		ANT, LOOP AM-CON C<HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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Tokyo Japan