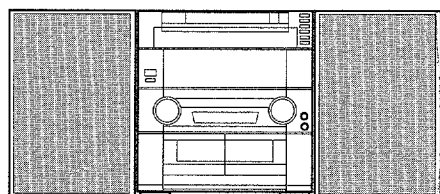


aiwa



Z-R880



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3MK2 PR5NM
- BASIC CD MECHANISM: 6ZG-1 S2DSHNM

- TYPE: LH

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-R880	CX-ZR880	SX-WZR88	RC - 7AS01

- If requiring information about the CD mechanism, see Service Manual of 6ZG-1.
(S/M Code No.09-984-249-9OT)

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

<Amplifier section>

Power output	120 W + 120 W (6 ohms, T.H.D. 10 %, 1kHz)
Total harmonic distortion	0.15 % (60 W, 1 kHz, 6 ohms)
Inputs	VIDEO/AUX: 210 mV (adjustable) PHONO: 340 mV (47 kohms) MIC1, MIC2: 1.4mV (20 kohms)
Outputs	CD DIGITAL OUT (OPTICAL) SUPER WOOFER: 2.7V SPEAKERS: 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

<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
Singal-to noise ratio	60 dB (Dolby B NR ON, CrO ₂ tape peak level, above 400Hz)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-WZR88>

Cabinet type	4 way, bass reflex
Speakers	Super woofer: 240 mm cone type Woofer: 140 mm cone type Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	300 x 500 x 385 mm
Weight	7.0 kg

<General>

Power requirements	120 V/220-230V/240 V AC switchable, 50/60 Hz
Power consumption	155 W
Dimensions of main unit (W x H x D)	360 x 394.5 x 382.5 mm
Weight of main unit	10.0 kg

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

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

WARNING!

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

CAUTION

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

ATTENTION

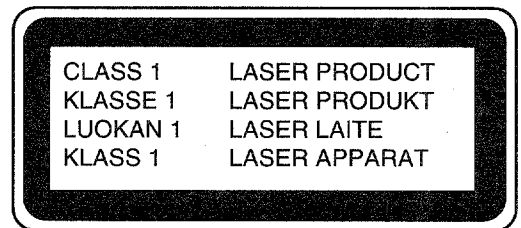
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

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

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

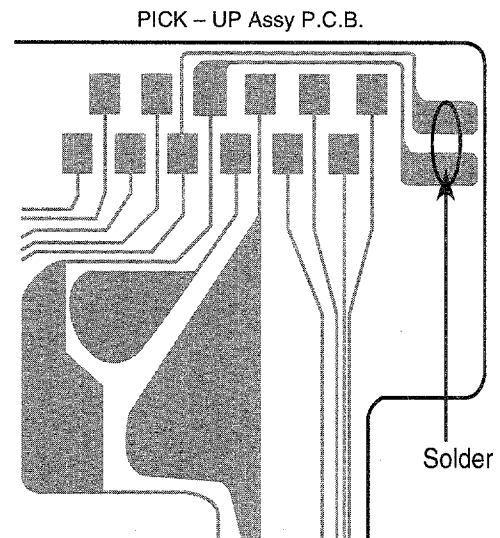


Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use 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. Connector 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.

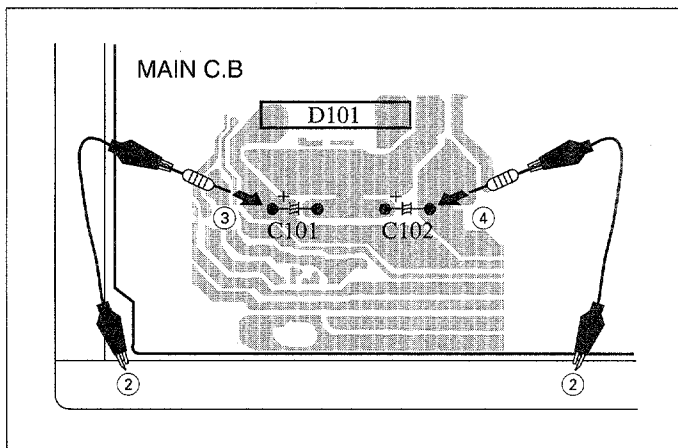


Fig-1

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 capacitor 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 judgment 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.

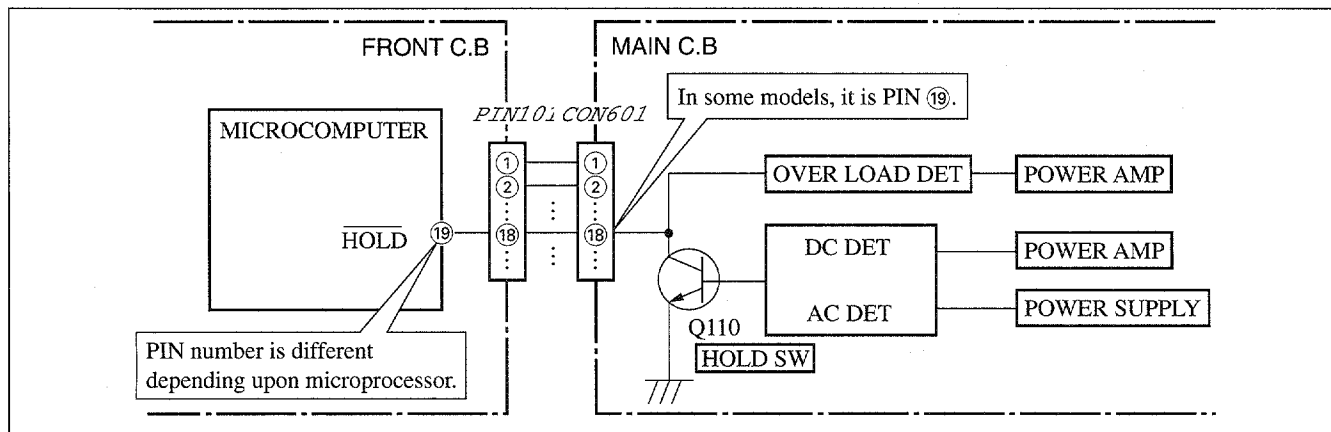


Fig-2-1

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 judgment 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.

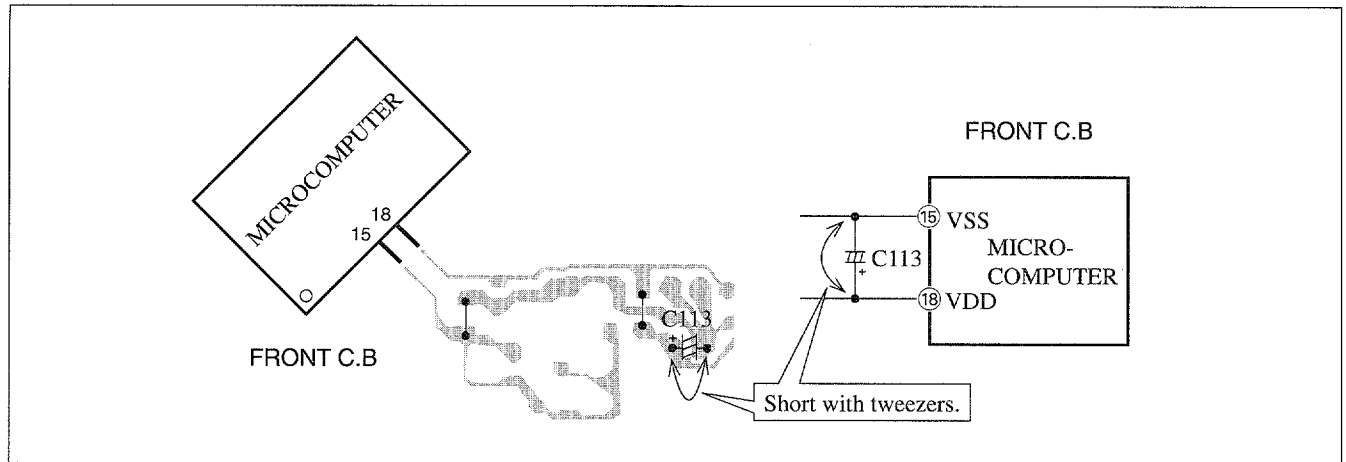


Fig-2-2

- ② Short the 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

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				C105	87-012-368-080		C-CAP,S 0.1-50 F
	87-020-454-010	IC, DN6851		C106	87-012-368-080		C-CAP,S 0.1-50 F
	88-MA1-602-010	C-IC, LC866560W-5H04		C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-NF8-614-010	IC, SPS-442-1-W		C108	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-915-080	C-IC, BU4094BCF		C109	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A20-455-010	IC, HA12211		C110	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A20-355-010	IC, CXA1553P		C111	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A20-083-010	IC, BA3835S		C112	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A20-804-040	C-IC, NJM2152M		C113	87-010-247-080		CAP,E 100-50 M SME
	87-A20-613-040	C-IC, BU9262AFS		C116	87-010-247-080		CAP,E 100-50 M SME
	87-A20-954-040	C-IC, M62445FF-601		C117	87-010-430-080		CAP,E 100-63 SME
	87-017-888-080	IC, NJM4558MD		C118	87-010-263-080		CAP,E 100-10 SME
	86-NFZ-655-010	IC, LC72131D(Z)		C119	87-010-260-080		CAP,E 47-25 SME
	87-A20-438-010	IC, LA1837		C120	87-010-403-080		CAP,E 3.3-50 M SME
	88-NF5-615-040	C-IC, MSM6654A-521GS-KR1		C121	87-012-140-080		C-CAP,S 470P-50 J CH
TRANSISTOR				C123	87-010-247-080		CAP,E 100-50 SME
	87-026-463-080	TR, 2SA933S		C124	87-010-112-080		CAP,E 100-16 SME
	87-A30-076-080	C-TR, 2SC3052F		C125	87-010-235-080		CAP,E 470-16 SME
	89-213-702-010	TR, 2SB1370		C209	87-010-546-080		CAP,E 0.33-50 SME
	87-026-610-080	TR, KTC3198GR		C210	87-010-546-080		CAP,E 0.33-50 SME
	87-A30-073-080	C-TR, RT1N 141C		C211	87-010-183-080		C-CAP,S 2700P-50 K B
	87-A30-085-070	C-TR, CSA1362GR		C212	87-010-183-080		C-CAP,S 2700P-50 K B
	87-A30-196-080	TR, 2SC4115SRS		C213	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-075-080	C-TR, 2SA1235F		C214	87-010-186-080		C-CAP,S 4700P-50 K B
	89-112-965-080	TR, 2SA1296		C215	87-010-403-080		CAP,E 3.3-50 M SME
	87-A30-071-080	C-TR, RT1N 144C		C216	87-010-403-080		CAP,E 3.3-50 M SME
	87-026-609-080	TR, KTA1266GR		C217	87-010-260-080		CAP,E 47-25 SME
	87-A30-105-080	C-TR, RT1P 441C		C218	87-010-260-080		CAP,E 47-25 SME
	87-026-580-080	C-TR, DTA123JK		C223	87-010-197-080		C-CAP,S 0.01-25 K B
	87-A30-107-070	C-TR, CMBT5401		C224	87-010-197-080		C-CAP,S 0.01-25 K B
	87-A30-190-080	TR, CC5551		C229	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A30-097-010	TR, FN 1016		C230	87-A10-812-080		C-CAP,S 220P-200 J CH
	87-A30-098-010	TR, FP 1016		C233	87-010-544-080		CAP,E 0.1-50 SME
	87-A30-106-070	C-TR, CMBT5551		C234	87-010-544-080		CAP,E 0.1-50 SME
	87-A30-162-010	FET, 2SK2937		C235	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A30-072-080	C-TR, RT1P 144C		C237	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-074-080	C-TR, RT1P 141C		C238	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-026-232-080	C-TR, DTA144WK		C239	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A30-087-080	C-FET, 2SK2158		C240	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-026-211-080	C-TR, DTA144EK		C247	87-010-178-080		C-CAP,S 1000P-50 K B
	89-327-143-080	C-TR, 2SC2714		C248	87-010-178-080		C-CAP,S 1000P-50 K B
DIODE				C280	87-010-188-080		C-CAP,S 6800P-50 K B
	87-A40-470-080	DIODE, 1SS254		C301	87-010-318-080		C-CAP,S 47P-50 CH
	87-017-654-060	DIODE, GBU6JL6131		C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-A40-269-080	C-DIODE, MC2836		C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A40-270-080	C-DIODE, MC2838		C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-070-274-080	DIODE, 1N4003 SEM		C305	87-012-145-080		C-CAP,S 270P-50 J CH
	87-A40-344-080	ZENER, MTZJ6.2C		C306	87-012-145-080		C-CAP,S 270P-50 J CH
	87-A40-341-080	ZENER, MTZJ 36 A		C307	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A40-345-080	ZENER, MTZJ10C		C311	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-004-080	ZENER, MTZJ16A		C312	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-438-080	ZENER, MTZJ4.7A		C313	87-010-182-080		C-CAP,S 2200P-50 K B
	87-A40-370-090	DIODE, RK46-P20		C314	87-010-182-080		C-CAP,S 2200P-50 K B
	87-070-136-080	ZENER, MTZJ5.1B		C315	87-010-181-080		C-CAP,S 1800P-50 K B
	87-A40-488-080	DIODE, 1SS244		C316	87-010-181-080		C-CAP,S 1800P-50 K B
	87-017-931-080	ZENER, MTZJ5.6B		C317	87-012-142-080		C-CAP,S 0.33-16 Z F
	87-A40-002-080	ZENER, MTZJ5.1C		C318	87-012-142-080		C-CAP,S 0.33-16 Z F
	87-A40-234-080	ZENER, MTZJ5.6A		C319	87-012-141-080		C-CAP,S 0.22-16 Z F
				C320	87-012-141-080		C-CAP,S 0.22-16 Z F
				C321	87-012-141-080		C-CAP,S 0.22-16 Z F
				C322	87-012-141-080		C-CAP,S 0.22-16 Z F
				C324	87-010-260-080		CAP,E 47-25 SME
				C325	87-010-370-080		CAP,E 330-6.3 SME
				C327	87-010-404-080		CAP,E 4.7-50 SME
				C328	87-010-404-080		CAP,E 4.7-50 SME
MAIN C.B				C332	87-010-196-080		C-CAP,S 0.1-25 Z F
	88-906-251-110	FF-CABLE, 6P 1.25		C335	87-010-401-080		CAP,E 1-50 SME
C101	87-016-657-090	CAP,E 3300-71 M SMG		C336	87-010-401-080		CAP,E 1-50 SME
C102	87-016-657-090	CAP,E 3300-71 M SMG		C337	87-010-196-080		C-CAP,S 0.1-25 Z F
C103	87-016-658-090	CAP,E 4700-35 SMG		C339	87-010-196-080		C-CAP,S 0.1-25 Z F
C104	87-016-658-090	CAP,E 4700-35 SMG					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C340	87-010-196-080		C-CAP,S 0.1-25 Z F	C714	87-010-197-080		C-CAP,S 0.01-25 K B
C351	87-012-140-080		C-CAP,S 470P-50 J CH	C721	87-010-312-080		C-CAP,S 15P-50 CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH	C722	87-010-312-080		C-CAP,S 15P-50 CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C355	87-010-178-080		C-CAP,S 1000P-50 K B	C725	87-010-178-080		C-CAP,S 1000P-50 K B
C356	87-010-260-080		CAP,E 47-25 SME	C727	87-010-196-080		C-CAP,S 0.1-25 Z F
C357	87-010-197-080		C-CAP,S 0.01-25 K B	C728	87-010-248-080		CAP,E 220-10 SME
C358	87-010-183-080		C-CAP,S 2700P-50 B	C755	87-010-197-080		C-CAP,S 0.01-25 K B
C359	87-010-183-080		C-CAP,S 2700P-50 B	C756	87-010-197-080		C-CAP,S 0.01-25 K B
C360	87-010-183-080		C-CAP,S 2700P-50 B	C757	87-010-318-080		C-CAP,S 47P-50 CH
C370	87-010-196-080		C-CAP,S 0.1-25 Z F	C758	87-010-149-080		C-CAP,S 5P-50 CH
C371	87-010-179-080		C-CAP,S 1200P-50 K B	C761	87-010-196-080		C-CAP,S 0.1-25 Z F
C372	87-010-179-080		C-CAP,S 1200P-50 K B	C762	87-010-197-080		C-CAP,S 0.01-25 K B
C373	87-010-197-080		C-CAP,S 1200P-50 K B	C763	87-010-194-080		C-CAP, 0.047-50 Z F
C374	87-010-179-080		C-CAP,S 1200P-50 K B	C764	87-010-319-080		C-CAP,S 56P-50 CH
C375	87-010-545-080		CAP,E 0.22-50 M SME	C765	87-010-197-080		C-CAP,S 0.01-25 K B
C376	87-010-545-080		CAP,E 0.22-50 M SME	C766	87-010-197-080		C-CAP,S 0.01-25 K B
C378	87-010-196-080		C-CAP,S 0.1-25 Z F	C767	87-010-405-080		CAP,E 10-50 SME
C381	87-010-197-080		C-CAP,S 0.01-25 K B	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-318-080		C-CAP,S 47P-50 CH	C769	87-010-408-080		CAP,E 47-50 SME
C383	87-010-197-080		C-CAP,S 0.01-25 K B	C770	87-015-821-080		C-CAP,0.047-50
C384	87-010-402-080		CAP,E 2.2-50 SME	C771	87-010-407-080		CAP,E 33-50 SME
C385	87-010-184-080		C-CAP,S 3300P-50 K B	C772	87-010-194-080		C-CAP, 0.047-50 Z F
C386	87-010-196-080		C-CAP,S 0.1-25 Z F	C773	87-010-196-080		C-CAP,S 0.1-25 Z F
C401	87-010-405-080		CAP,E 10-50 M SME	C774	87-010-263-080		CAP,E 100-10 SME
C402	87-010-405-080		CAP,E 10-50 M SME	C775	87-010-404-080		CAP,E 4.7-50 SME
C403	87-010-183-080		C-CAP,S 2700P-50 B	C776	87-010-197-080		C-CAP,S 0.01-25 K B
C404	87-010-183-080		C-CAP,S 2700P-50 B	C777	87-010-400-080		CAP,E 0.47-50 SME
C405	87-010-193-080		C-CAP,S 0.033-25 Z F	C778	87-010-401-080		CAP,E 1-50 SME
C406	87-010-193-080		C-CAP,S 0.033-25 Z F	C779	87-010-401-080		CAP,E 1-50 SME
C407	87-010-405-080		CAP,E 10-50 M SME	C780	87-010-196-080		C-CAP,S 0.1-25 Z F
C408	87-010-405-080		CAP,E 10-50 M SME	C781	87-010-405-080		CAP,E 10-50 SME
C409	87-010-380-080		CAP,E 47-16 SME	C782	87-010-405-080		CAP,E 10-50 SME
C410	87-010-380-080		CAP,E 47-16 SME	C783	87-015-819-080		C-CAP,0.01-50 K B
C411	87-010-405-080		CAP,E 10-50 M SME	C784	87-010-197-080		C-CAP,S 0.01-25 K B
C412	87-010-112-080		CAP,E 100-16 SME	C785	87-010-403-080		CAP,E 3.3-50 SME
C415	87-010-184-080		C-CAP,S 3300P-50 K B	C786	87-010-403-080		CAP,E 3.3-50 SME
C416	87-010-184-080		C-CAP,S 3300P-50 K B	C787	87-010-184-080		C-CAP,S 3300P-50 K B
C516	87-010-196-080		C-CAP,S 0.1-25 Z F	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C457	87-010-404-080		CAP,E 4.7-50 SME	C789	87-010-179-080		C-CAP,S 1200P-50 K B
C457	87-010-404-080		CAP,E 4.7-50 SME	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C601	87-010-180-080		C-CAP,S 1500P-50 K B	C791	87-010-405-080		CAP,E 10-50 SME
C602	87-010-180-080		C-CAP,S 1500P-50 K B	C793	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-016-081-080		C-CAP,S 0.1-16 RK	C794	87-010-406-080		CAP,E 22-50 SME
C614	87-016-081-080		C-CAP,S 0.1-16 RK	C795	87-010-596-080		C-CAP,S 0.047-16
C619	87-010-185-080		C-CAP,S 3900P-50 B	C796	87-010-403-080		CAP,E 3.3-50 SME
C620	87-010-185-080		C-CAP,S 3900P-50 B	C797	87-010-182-080		C-CAP,S 2200P-50 B
C621	87-010-401-080		CAP,E 1-50 M SME	C798	87-010-182-080		C-CAP,S 2200P-50 B
C622	87-010-401-080		CAP,E 1-50 M SME	C799	87-010-194-080		C-CAP,S 0.047-50 Z F
C625	87-010-405-080		CAP,E 10-50 M SME	C812	87-010-197-080		C-CAP,S 0.01-25 K B
C626	87-010-405-080		CAP,E 10-50 M SME	C814	87-010-197-080		C-CAP,S 0.01-25 K B
C629	87-010-405-080		CAP,E 10-50 M SME	C820	87-010-408-080		CAP,E 47-50 SME
C630	87-010-213-080		C-CAP,S 0.015-50 B	C821	87-010-197-080		C-CAP,S 0.01-25 K B
C631	87-010-992-080		C-CAP,S 0.047-25 B	C822	87-010-197-080		C-CAP,S 0.01-25 K B
C632	87-010-263-080		CAP,E 100-10 SME	C823	87-010-197-080		C-CAP,S 0.01-25 K B
C633	87-010-263-080		CAP,E 100-10 SME	C828	87-010-196-080		C-CAP,S 0.1-25 Z F
C634	87-010-196-080		C-CAP,S 0.1-25 Z F	C829	87-010-196-080		C-CAP,S 0.1-25 Z F
C635	87-010-196-080		C-CAP,S 0.1-25 Z F	C959	87-010-196-080		C-CAP,S 0.1-25 Z F
C636	87-010-194-080		C-CAP, 0.047-50 Z F	C960	87-010-196-080		C-CAP,S 0.1-25 Z F
C637	87-010-183-080		C-CAP,S 2700P-50 B	C961	87-010-152-080		C-CAP,S 8P-50 CH
C641	87-010-196-080		C-CAP,S 0.1-25 Z F	CF801	87-008-261-010		FILTER, SFE10.7MA5-A
C667	87-010-196-080		C-CAP,S 0.1-25 Z F	CF802	87-008-261-010		FILTER, SFE10.7MA5-A
C701	87-010-381-080		CAP,E 330-16 SME	FB601	87-A50-190-080		C-COIL,S BLM21A102S
C702	87-010-404-080		CAP,E 4.7-50 SME	FFE801	A8-82A-190-030		82A-1 FEUNM
C703	87-010-197-080		C-CAP,S 0.01-25 K B	J201	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW KM16AT
C704	87-010-197-080		C-CAP,S 0.01-25 K B	J202	87-A60-547-010		JACK,PIN 4P R/W/B
C709	87-010-322-080		C-CAP,S 100P-50 CH	J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
C711	87-010-263-080		CAP,E 100-10 SME	J602	87-099-625-010		JACK PIN 4P,RVS (KM)
C712	87-010-196-080		C-CAP,S 0.1-25 Z F	J801	87-033-239-010		TERMINAL,HSP-154V-2
C713	87-010-197-080		C-CAP,S 0.01-25 K B	L201	87-003-383-010		COIL,1UH-S

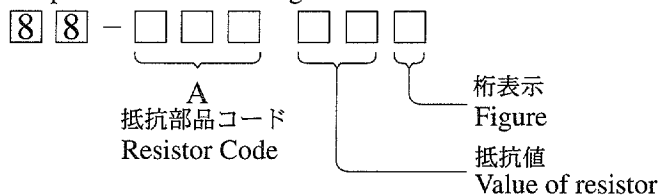
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L202	87-003-383-010		COIL,1UH-S	C387	87-010-196-080		C-CAP,S 0.1-25 Z F
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C501	87-010-319-080		C-CAP,S 56P-50 CH
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C502	87-010-319-080		C-CAP,S 56P-50 CH
L351	87-007-342-010		COIL,OSC 85K BIAS	C503	87-012-141-080		C-CAP,S 0.22-16 Z F
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C504	87-010-197-080		C-CAP,S 0.01-50 K B
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)	C505	87-010-180-080		C-CAP,S 1500P-50 K B
L781	87-005-847-080		COIL,2.2UH(CECS)	C506	87-010-213-080		C-CAP,S 0.015-50 B
L791	87-A50-209-010		COIL,1POLE MPX(MIT)	C507	87-010-213-080		C-CAP,S 0.015-50 B
L792	87-A50-209-010		COIL,1POLE MPX(MIT)	C508	87-010-197-080		C-CAP,S 0.01-50 K B
L832	86-NFZ-694-080		COIL,2.2UH K CECS	C509	87-010-181-080		C-CAP,S 1800P-50 K B
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)	C510	87-010-196-080		C-CAP,S 0.1-25 Z F
R237	87-A00-262-080		RES,M/F 0.15-2W J	C511	87-010-067-040		CAP,E 0.1-50 5L
R238	87-A00-262-080		RES,M/F 0.15-2W J	C512	87-010-503-040		CAP,E 220-4 GAS
R239	87-A00-262-080		RES,M/F 0.15-2W J	C513	87-010-071-040		CAP,E 1-50 5L
R240	87-A00-262-080		RES,M/F 0.15-2W J	C514	87-010-071-040		CAP,E 1-50 5L
RY101	87-045-389-010		RELAY,OSA-SS-212DM5	C515	87-010-183-080		C-CAP,S 2700P-50 B
RY201	87-045-382-010		RELAY,OUAZ-SH-112L	C516	87-010-183-080		C-CAP,S 2700P-50 B
SFR301	87-A90-557-080		SFR,33K H HOKU	C518	87-010-196-080		C-CAP,S 0.1-25 Z F
SFR302	87-A90-557-080		SFR,33K H HOKU	C519	87-010-263-040		CAP,E 100-10
SFR303	87-A90-557-080		SFR,33K H HOKU	C525	87-012-141-080		C-CAP,S 0.22-16 Z F
SFR304	87-A90-557-080		SFR,33K H HOKU	C601	87-010-405-040		CAP,E 10-50
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA	C602	87-010-186-080		C-CAP,S 4700P-50 K B
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA	C603	87-010-405-040		CAP,E 10-50
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA	C604	87-010-382-040		CAP,E 22-25 SME
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA	C605	87-010-196-080		C-CAP,S 0.1-25 Z F
W104	85-NF5-628-010		F-CABLE,7P-2.5	C607	87-010-321-080		C-CAP,S 82P-50 J CH
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C608	87-010-196-080		C-CAP,S 0.1-25 Z F
				C609	87-010-068-040		CAP,E 0.22-50 5L
				C611	87-010-177-080		C-CAP,S 820P-50 SL
				C612	87-010-176-080		C-CAP,S 680P-50 SL
FRONT C.B							
	85-MA2-602-010		CABLE,FFC 15P-1.25	C614	87-010-248-040		CAP,E 220-10 SME
	88-912-281-110		FF-CABLE,12P 1.25	C801	87-010-263-040		CAP,E 100-10 M SME
	88-908-231-110		FF-CABLE,8P 1.25	C802	87-010-196-080		C-CAP,S 0.1-25 Z F
C101	87-010-198-080		C-CAP,S 0.022-25 K B	C803	87-010-400-040		CAP,E 0.47-50 MSME
C102	87-010-198-080		C-CAP,S 0.022-25 K B	C804	87-010-315-080		C-CAP,S 27P-50 CH
C103	87-010-197-080		C-CAP,S 0.01-25 K B	C805	87-010-315-080		C-CAP,S 27P-50 CH
C104	87-010-312-080		C-CAP,S 15P-50 CH	C852	87-012-156-080		C-CAP,S 220P-50 CH
C105	87-010-316-080		C-CAP,S 33P-50 CH	C853	87-010-404-040		CAP,E 4.7-50 SME
C106	87-010-320-080		C-CAP,S 68P-50 J CH	C854	87-010-196-080		C-CAP,S 0.1-25 Z F
C107	87-012-157-080		C-CAP,S 330P-50 CH	C938	87-012-145-080		C-CAP,S 270P-50 J CH
C108	87-010-405-040		CAP,E 10-50 M SME	C941	87-012-145-080		C-CAP,S 270P-50 J CH
C109	87-010-071-040		CAP,E 1-50 5L	C942	87-012-145-080		C-CAP,S 270P-50 J CH
C110	87-010-196-080		C-CAP,S 0.1-25 Z F	C943	87-012-145-080		C-CAP,S 270P-50 J CH
C111	87-010-196-080		C-CAP,S 0.1-25 Z F	C944	87-012-145-080		C-CAP,S 270P-50 J CH
C112	87-010-196-080		C-CAP,S 0.1-25 Z F	C945	87-012-145-080		C-CAP,S 270P-50 J CH
C113	87-A10-189-040		CAP,E 220-10	C946	87-012-145-080		C-CAP,S 270P-50 J CH
C114	87-010-196-080		C-CAP,S 0.1-25 Z F	C947	87-012-145-080		C-CAP,S 270P-50 J CH
C115	87-010-178-080		C-CAP,S 1000P-50 K B	C948	87-012-145-080		C-CAP,S 270P-50 J CH
C116	87-010-071-040		CAP,E 1-50 5L	C949	87-012-145-080		C-CAP,S 270P-50 J CH
C117	87-010-079-040		CAP,E 100-6.3 5L	C950	87-012-145-080		C-CAP,S 270P-50 J CH
C118	87-012-369-080		C-CAP,S 0.047-50 Z F	C951	87-012-145-080		C-CAP,S 270P-50 J CH
C119	87-010-408-040		CAP,E 47-50 SME	C952	87-012-145-080		C-CAP,S 270P-50 J CH
C120	87-010-421-040		CAP,E 4.7-50 5L	FB601	87-A50-190-080		C-COIL,S BLM21A102S
C121	87-010-421-040		CAP,E 4.7-50 5L	FL101	88-MA2-604-010		FL,BJ607GK
C122	87-010-194-080		C-CAP, 0.047-25 Z F	L501	87-005-448-080		COIL,220UH,K
C123	87-010-196-080		C-CAP,S 0.1-25 Z F	LED201	87-070-201-080		LED,SLP9118C-51-S RED
C124	87-010-196-080		C-CAP,S 0.1-25 Z F	LED202	87-070-201-080		LED,SLP9118C-51-S RED
C125	87-010-196-080		C-CAP,S 0.1-25 Z F	LED203	87-070-201-080		LED,SLP9118C-51-S RED
C127	87-010-196-080		C-CAP,S 0.1-25 Z F	LED204	87-070-201-080		LED,SLP9118C-51-S RED
C202	87-010-196-080		C-CAP,S 0.1-25 Z F	LED205	87-070-201-080		LED,SLP9118C-51-S RED
C203	87-010-196-080		C-CAP,S 0.1-25 Z F	LED206	87-070-197-080		LED,SLP7118C-51-S P-GRN
C204	87-010-196-080		C-CAP,S 0.1-25 Z F	LED207	87-070-197-080		LED,SLP7118C-51-S P-GRN
C281	87-010-198-080		C-CAP,S 0.022-25 K B	LED208	87-070-197-080		LED,SLP7118C-51-S P-GRN
C282	87-010-198-080		C-CAP,S 0.022-25 K B	LED209	87-070-197-080		LED,SLP7118C-51-S P-GRN
C381	87-010-196-080		C-CAP,S 0.1-25 Z F	LED210	87-070-197-080		LED,SLP7118C-51-S P-GRN
C382	87-012-158-080		C-CAP,S 390P-50 CH	LED211	87-070-197-080		LED,SLP7118C-51-S P-GRN
C383	87-010-196-080		C-CAP,S 0.1-25 Z F	LED212	87-070-197-080		LED,SLP7118C-51-S P-GRN
C384	87-010-196-080		C-CAP,S 0.1-25 Z F	LED213	87-070-197-080		LED,SLP7118C-51-S P-GRN
C385	87-010-196-080		C-CAP,S 0.1-25 Z F	LED214	87-070-197-080		LED,SLP7118C-51-S P-GRN
C386	87-010-196-080		C-CAP,S 0.1-25 Z F	LED215	87-070-197-080		LED,SLP7118C-51-S P-GRM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED216	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED259	87-070-201-080		LED,SLP-9118C-51-S RED
LED217	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED260	87-070-201-080		LED,SLP-9118C-51-S RED
LED218	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED261	87-070-201-080		LED,SLP-9118C-51-S RED
LED219	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	LED262	87-070-201-080		LED,SLP-9118C-51-S RED
LED220	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	S312	87-A90-095-080		SW,TACT EVQ11G04M
LED221	87-A40-446-040		LED,SLP-7131F-81H-S-T1 P-GRN	S313	87-A90-095-080		SW,TACT EVQ11G04M
LED233	87-070-278-010		LED,SLZ-738A-24-S P-GRN	S314	87-A90-095-080		SW,TACT EVQ11G04M
LED234	87-070-278-010		LED,SLZ-738A-24-S P-GRN	S315	87-A90-095-080		SW,TACT EVQ11G04M
LED235	87-070-278-010		LED,SLZ-738A-24-S P-GRN	S316	87-A90-095-080		SW,TACT EVQ11G04M
LED236	87-070-278-010		LED,SLZ-738A-24-S P-GRN	S317	87-A90-095-080		SW,TACT EVQ11G04M
LED237	87-070-290-010		LED,SLZ 936-30-S RED	S318	87-A90-095-080		SW,TACT EVQ11G04M
LED238	87-070-290-010		LED,SLZ 936-30-S RED				
LED239	87-070-201-080		LED,SLP9118C-51-S RED				
LED240	87-070-201-080		LED,SLP9118C-51-S RED	MIC C.B			
LED241	87-070-201-080		LED,SLP9118C-51-S RED				
LED242	87-070-201-080		LED,SLP9118C-51-S RED	J601	87-099-659-010		JACK,6.3 JY-6314-01130
LED243	87-070-201-080		LED,SLP9118C-51-S RED	J602	87-099-659-010		JACK,6.3 JY-6314-01130
LED247	87-070-201-080		LED,SLP9118C-51-S RED				
LED249	87-070-201-080		LED,SLP9118C-51-S RED	AC1 C.B			
LED250	87-070-201-080		LED,SLP9118C-51-S RED				
△ PR201	87-A90-393-080		PROTECTOR,0.5A 491SERISE 60V	△ F101	87-035-459-010		FUSE,5A 250V
R301	87-022-355-080		C-RES,S10K-1/10W F	△ FC101	87-033-147-010		FUSE CLAMP
R321	87-022-355-080		C-RES,S10K-1/10W F	△ FC102	87-033-147-010		FUSE CLAMP
R341	87-022-355-080		C-RES,S10K-1/10W F	△ PT101	88-MA2-609-010		PT,8MA-2 LH
S101	87-A90-535-010		SW,RTRY EC16B24304	△ S101	87-A90-165-010		SW,SL 1-2-3 SWS2301
S103	87-A90-792-010		SW,RTRY EC12E12244 ENCORDER	△ T101	87-A60-317-010		TERMINAL, 1P MSC
S301	87-A90-095-080		SW,TACT EVQ11G04M	△ T102	87-A60-317-010		TERMINAL, 1P MSC
S303	87-A90-095-080		SW,TACT EVQ11G04M				
S304	87-A90-095-080		SW,TACT EVQ11G04M	AC2 C.B			
S305	87-A90-095-080		SW,TACT EVQ11G04M				
S307	87-A90-095-080		SW,TACT EVQ11G04M	△ PR101	87-026-682-080		PROTECTOR,10A 60V491
S309	87-A90-095-080		SW,TACT EVQ11G04M	△ PR102	87-026-682-080		PROTECTOR,10A 60V491
S310	87-A90-095-080		SW,TACT EVQ11G04M	△ PR103	87-026-682-080		PROTECTOR,10A 60V491
S311	87-A90-095-080		SW,TACT EVQ11G04M	△ PR104	87-026-682-080		PROTECTOR,10A 60V491
S321	87-A90-095-080		SW,TACT EVQ11G04M				
S322	87-A90-095-080		SW,TACT EVQ11G04M	HEAD-2 C.B			
S323	87-A90-095-080		SW,TACT EVQ11G04M				
S324	87-A90-095-080		SW,TACT EVQ11G04M		85-ZM3-602-110		PWB,FLEX A
S325	87-A90-095-080		SW,TACT EVQ11G04M	CON351	83-NEG-608-010		CONN ASSY,8P-RPB
S326	87-A90-095-080		SW,TACT EVQ11G04M				
S327	87-A90-095-080		SW,TACT EVQ11G04M	HEAD-1 C.B			
S328	87-A90-095-080		SW,TACT EVQ11G04M				
S329	87-A90-095-080		SW,TACT EVQ11G04M		85-ZM3-602-110		PWB,FLEX A
S330	87-A90-095-080		SW,TACT EVQ11G04M				
S331	87-A90-095-080		SW,TACT EVQ11G04M	DECK C.B			
S332	87-A90-095-080		SW,TACT EVQ11G04M	CON502	87-099-756-010		CONN,15P 9604S F
S334	87-A90-095-080		SW,TACT EVQ11G04M	SFR1	87-024-581-010		SFR,3.3K DIA 6H
S341	87-A90-095-080		SW,TACT EVQ11G04M	SOL1	82-ZM1-626-010		SOL ASSY,27K
S342	87-A90-095-080		SW,TACT EVQ11G04M	SOL2	82-ZM1-626-010		SOL ASSY,27K
S343	87-A90-095-080		SW,TACT EVQ11G04M	SW1	87-036-110-010		SW,MICRO SPPB62
S345	87-A90-095-080		SW,TACT EVQ11G04M	SW2	87-036-110-010		SW,MICRO SPPB62
S346	87-A90-095-080		SW,TACT EVQ11G04M	SW3	87-036-110-010		SW,MICRO SPPB62
S347	87-A90-095-080		SW,TACT EVQ11G04M	SW4	87-036-110-010		SW,MICRO SPPB62
S348	87-A90-095-080		SW,TACT EVQ11G04M	SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S349	87-A90-095-080		SW,TACT EVQ11G04M	SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S350	87-A90-095-080		SW,TACT EVQ11G04M	SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S351	87-A90-095-080		SW,TACT EVQ11G04M	SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
S352	87-A90-095-080		SW,TACT EVQ11G04M	W1	82-ZM3-601-010		RBN-CORD,4P-75
S353	87-A90-095-080		SW,TACT EVQ11G04M				
S354	87-A90-095-080		SW,TACT EVQ11G04M				
S355	87-A90-095-080		SW,TACT EVQ11G04M				
S356	87-A90-095-080		SW,TACT EVQ11G04M				
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF				
X801	87-A70-075-080		VIB,CER 4.19MHZ CRHF				
CD KEY C.B							
C287	87-010-196-080		C-CAP,S 0.1-25 Z F				
CN302	87-099-201-010		CONN,8P 6216 H				
LED258	87-070-201-080		LED,SLP-9118C-51-S RED				

○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

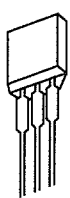
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA1296
KTA1266
KTC3198



E C B

2SA933
2SC4115



B C E

2SB1370
FN1016
FP1016



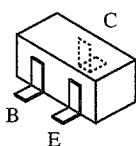
E C B

CC5551



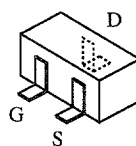
G D S

2SK2937



B C E

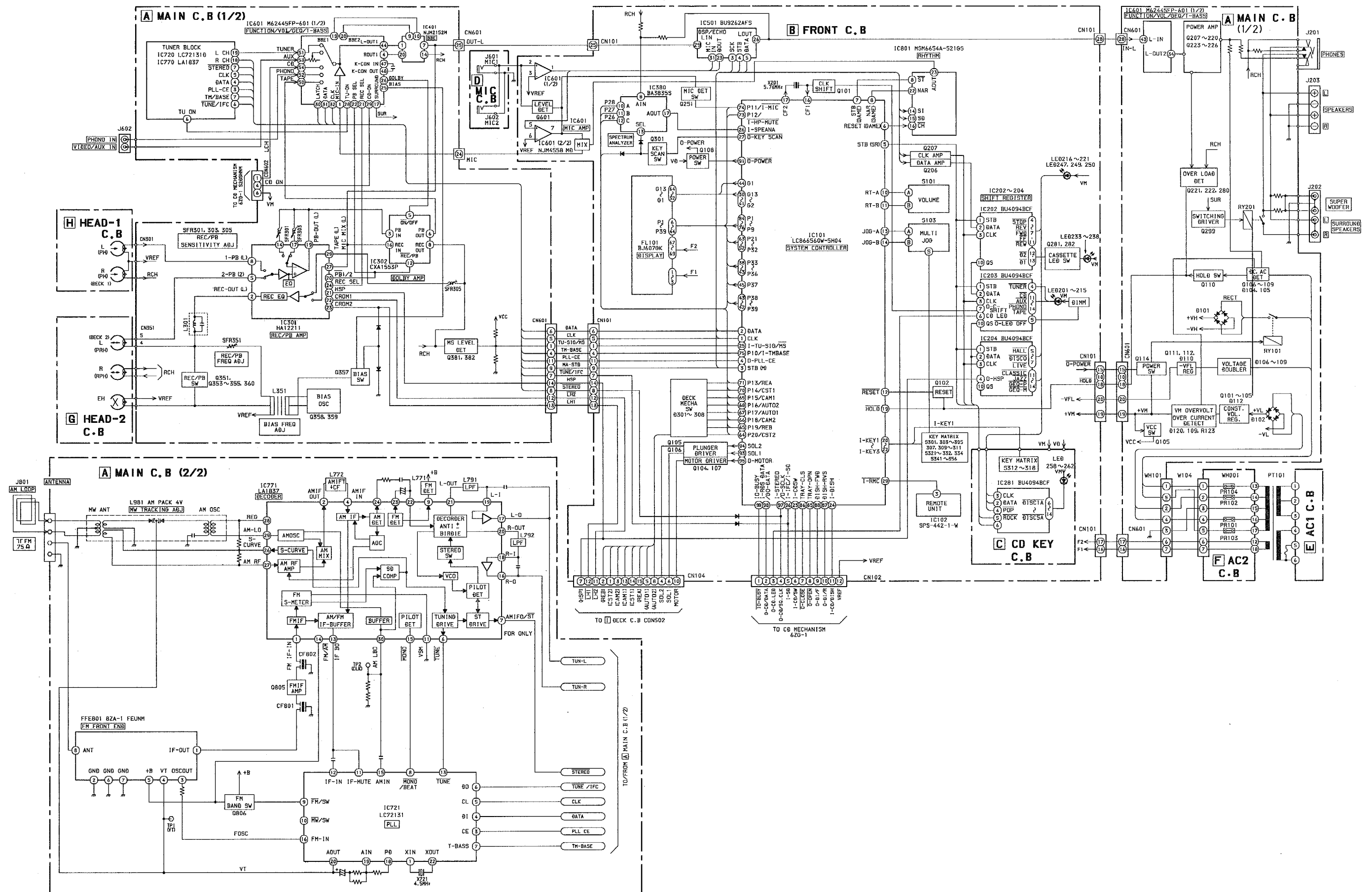
2SA1235 DTA144EK
2SC2714 DTA144WK
2SC3052 RT1N141C
CMBT5401 RT1N144C
CMBT5551 RT1P141C
CSA1362 RT1P144C
DTA123JK RT1P441C

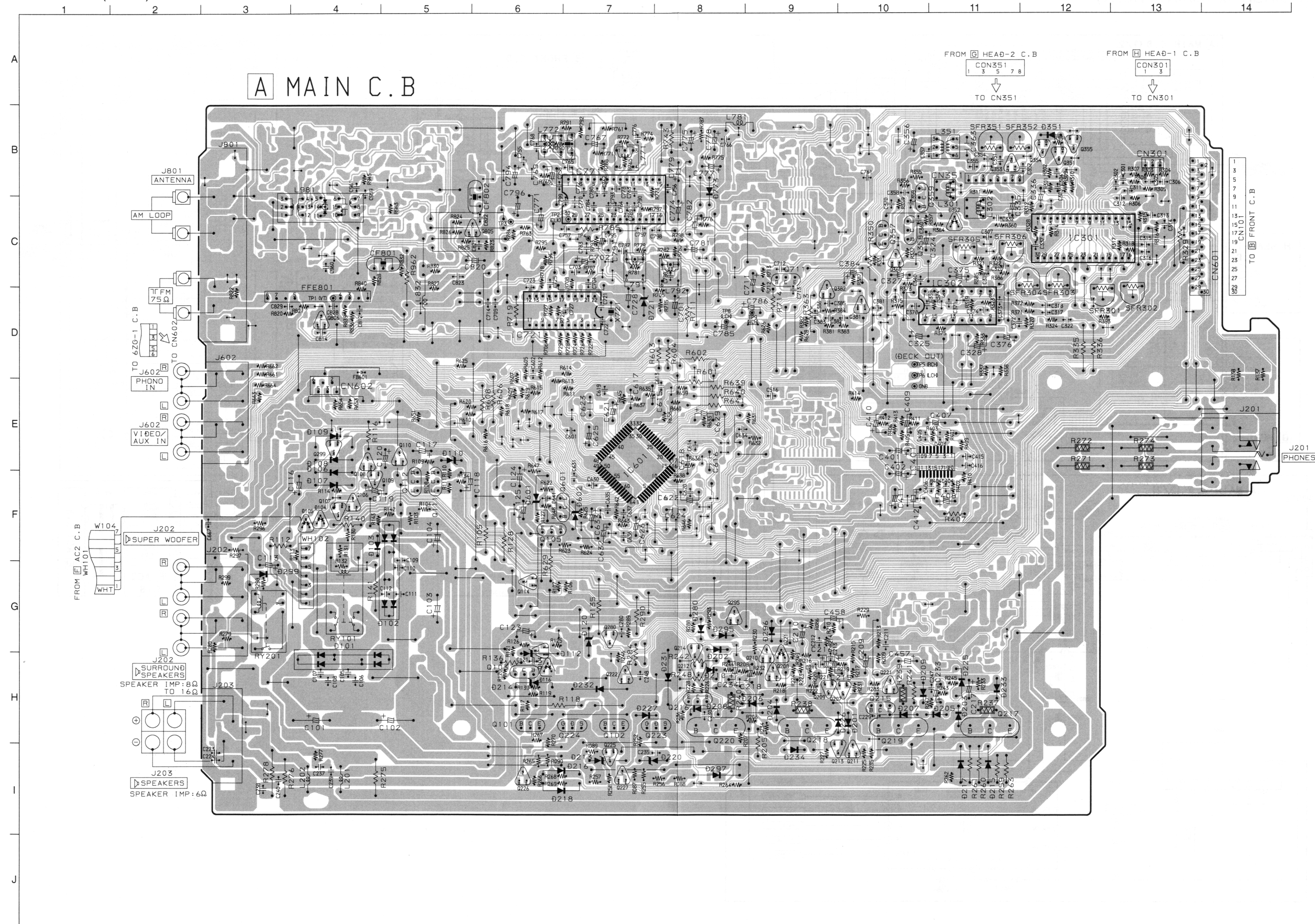


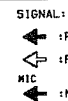
G D S

2SK2158

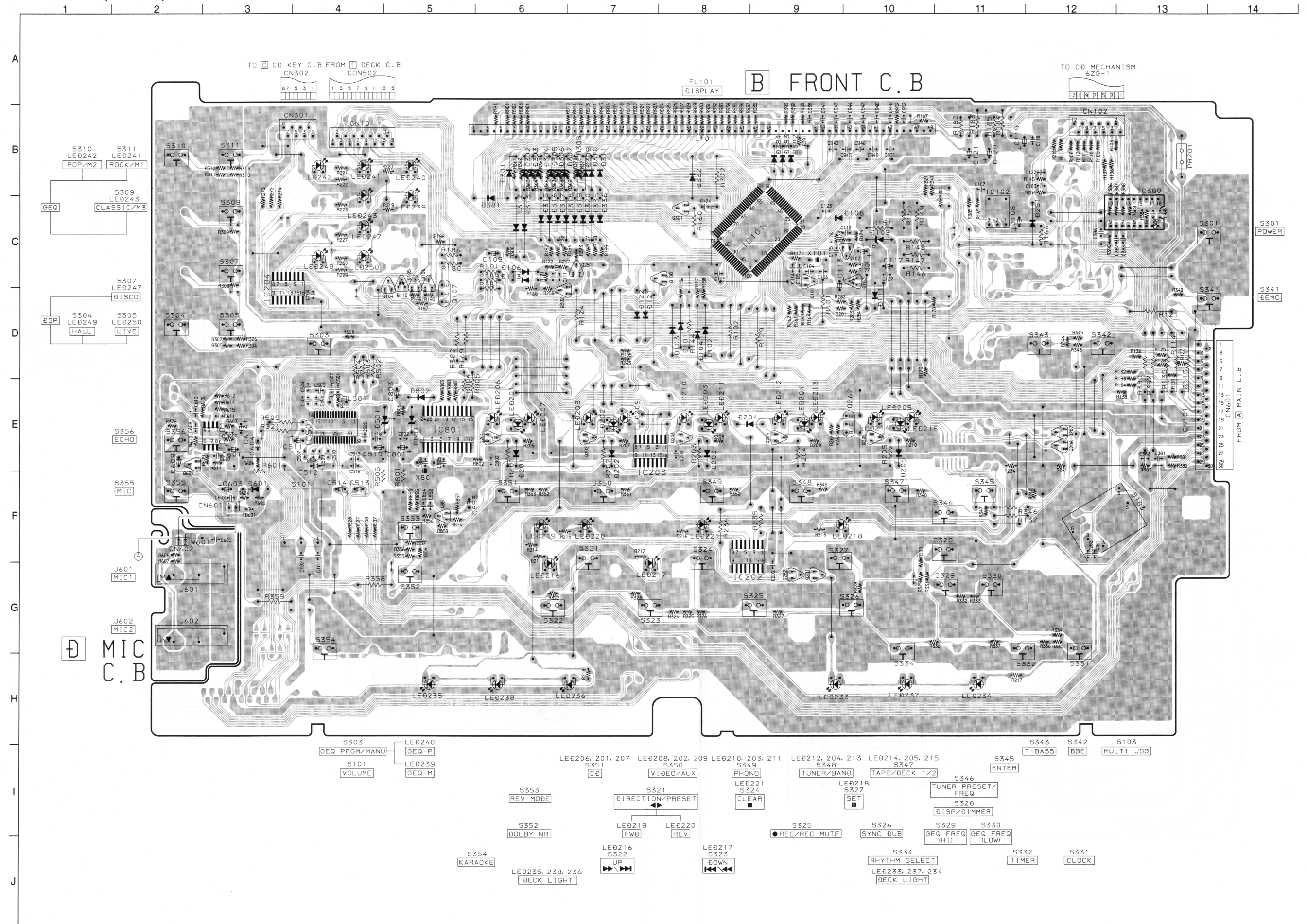
BLOCK DIAGRAM (MAIN / FRONT)

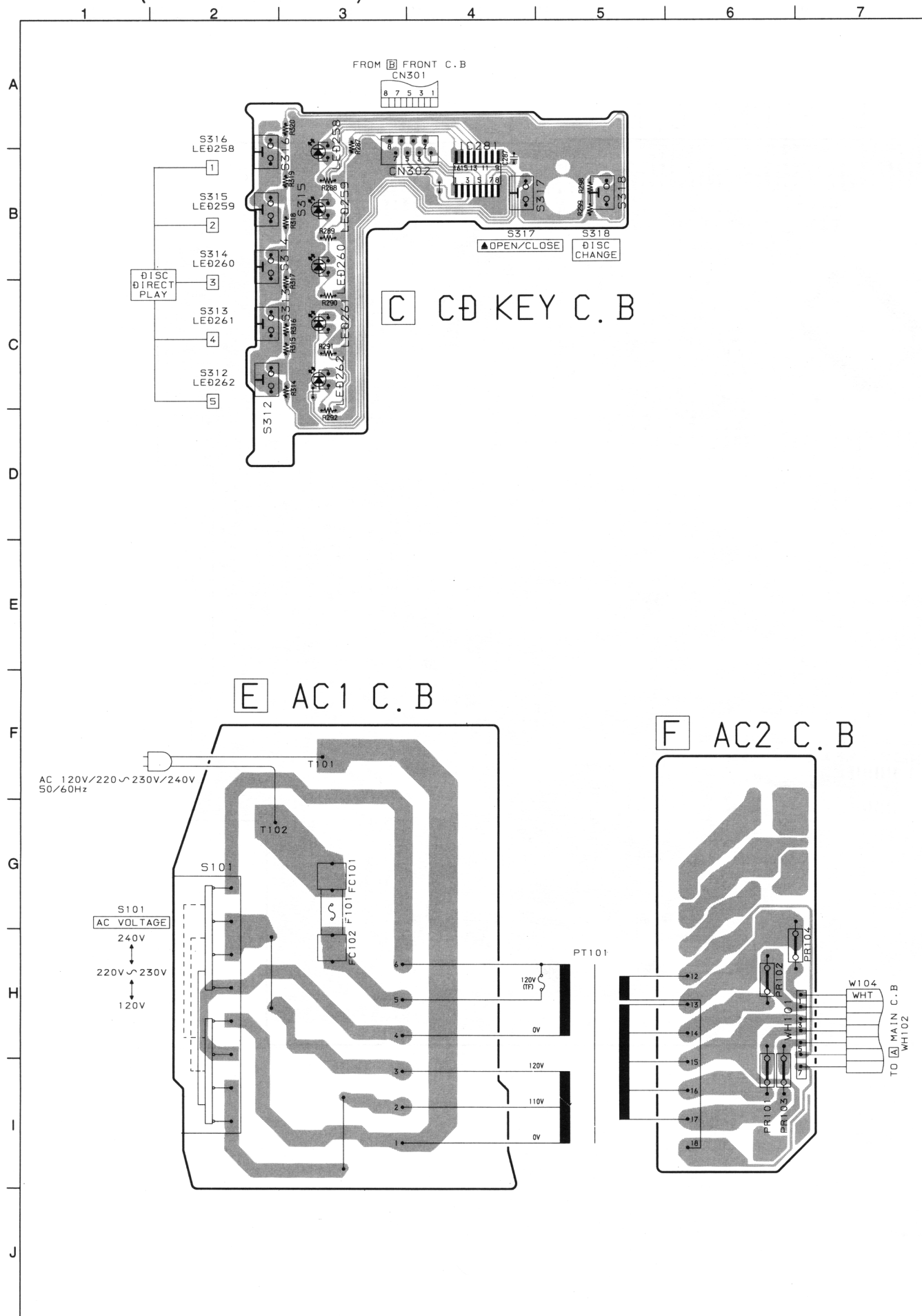




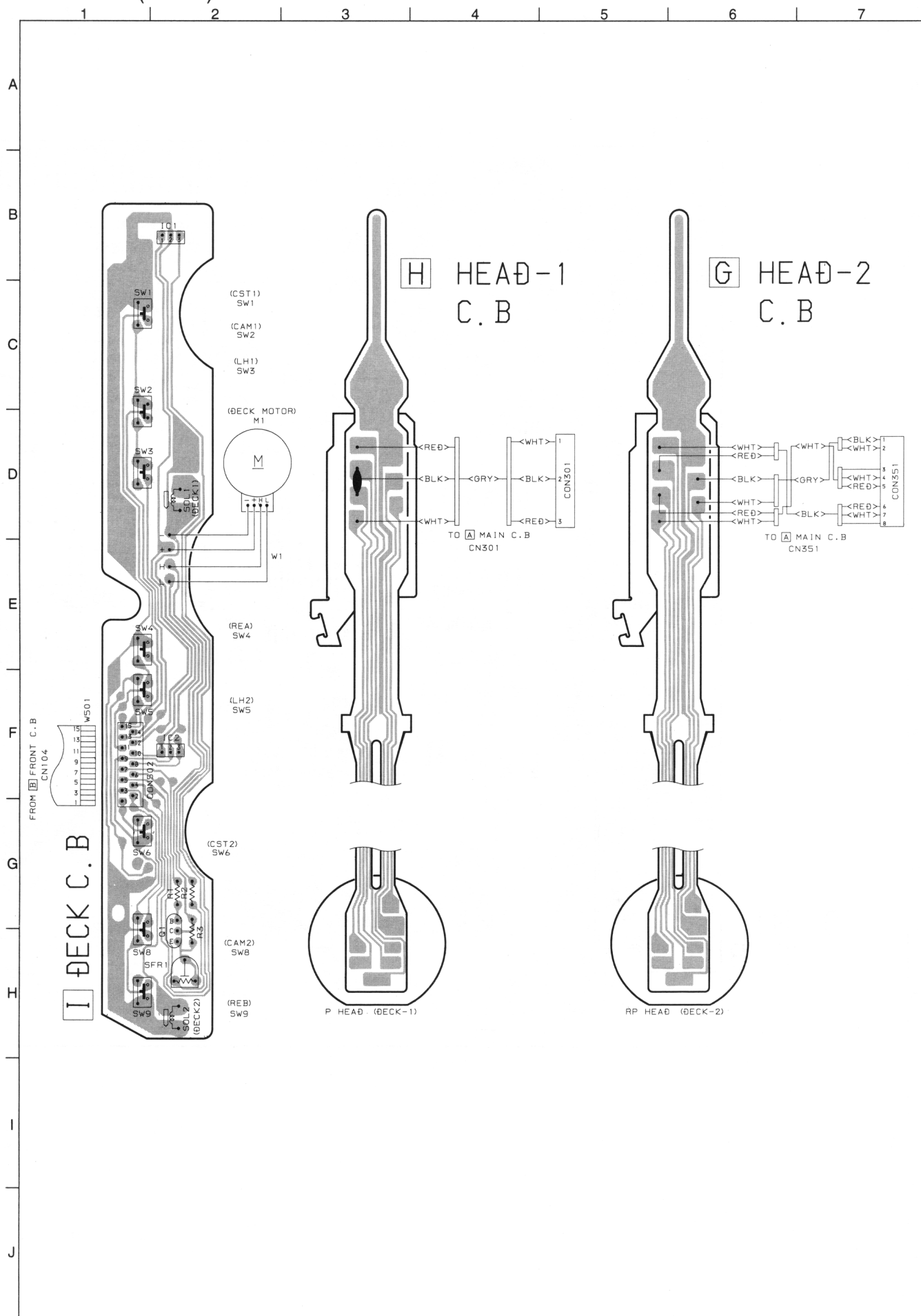


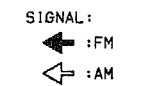




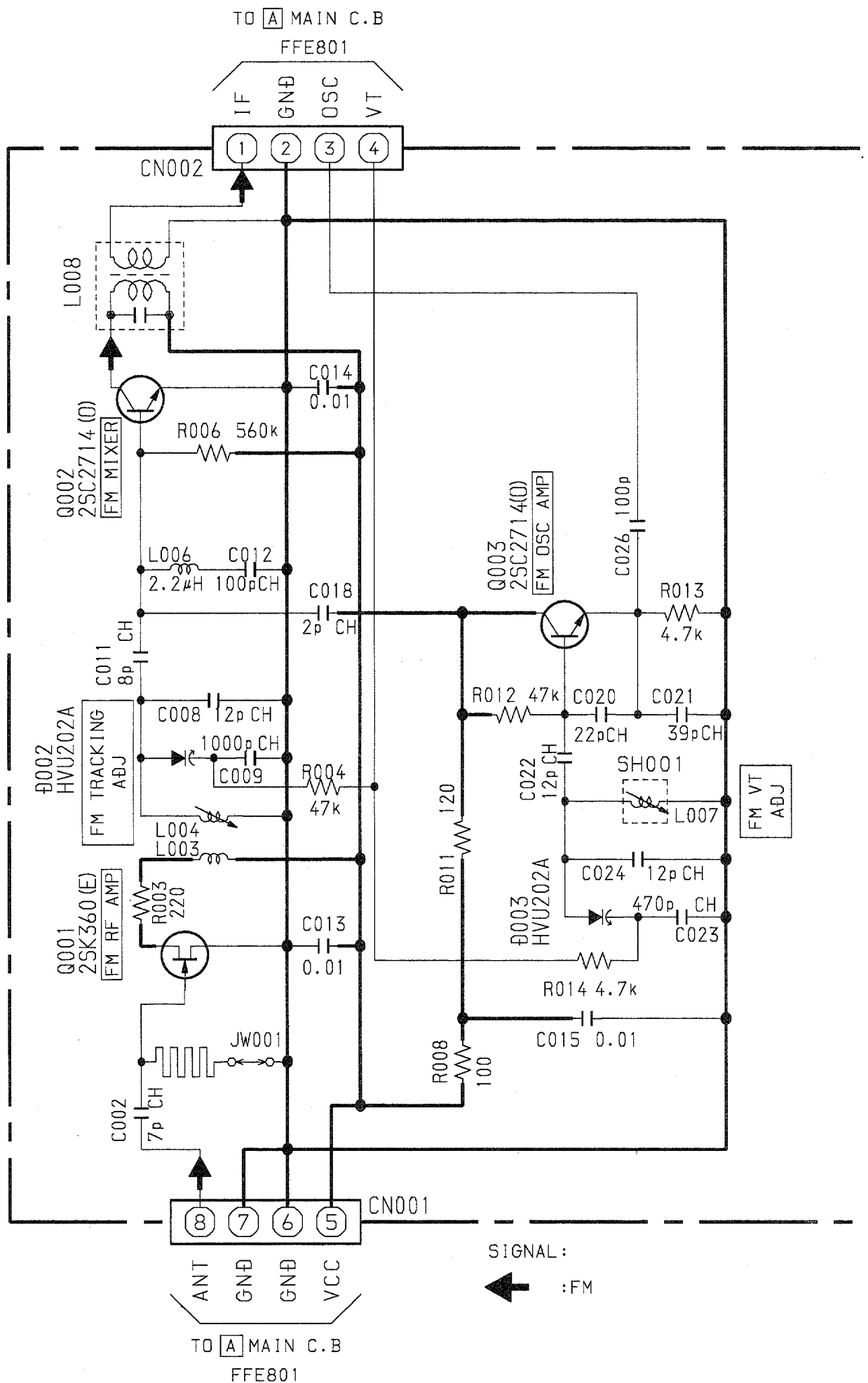


WIRING - 4 (DECK)



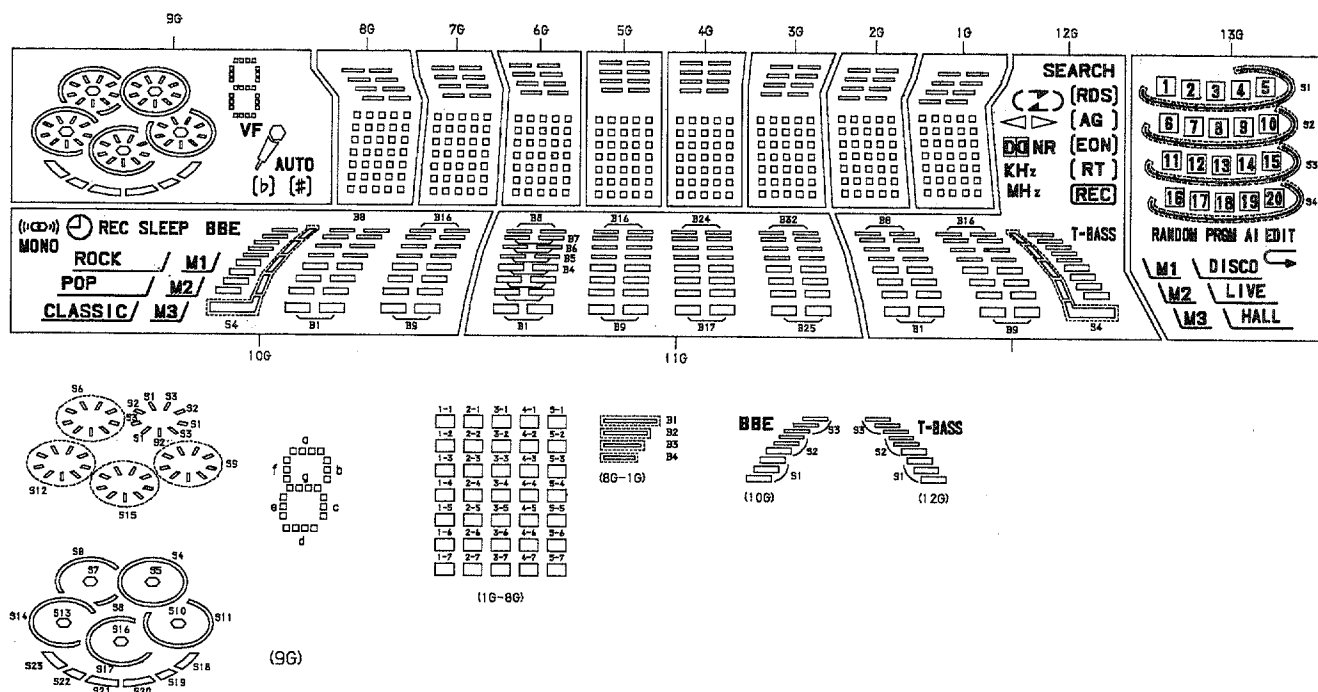


SCHEMATIC DIAGRAM - 4 (TUNER FRONT END)



FL (BJ607GK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



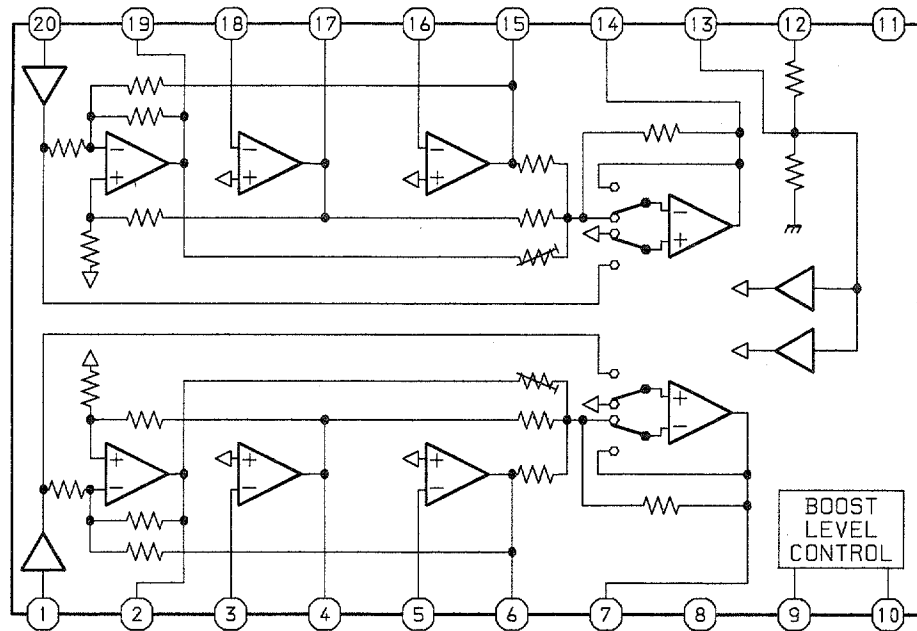
ANODE CONNECTION

	13G	12G	11G	10G	9G	1G-8G
P1	S1	SEARCH	—	—	—	B4
P2	S2	RDS AG EON	—	—	—	B3
P3	S3	RT	—	—	—	B2
P4	S4	—	—	(i-CD-ii)	S23	B1
P5	DISCO LIVE HALL	(RDS)	—	MONO	S22	1-1
P6	—	(AG)	—	ROCK POP CLASSIC	S21	2-1
P7	(HALL)	(EON)	—	—	S20	3-1
P8	(LIVE)	(RT)	B1	(CLASSIC)	S19	4-1
P9	(DISCO)	—	B9	(POP)	S18	5-1
P10	M1 M2 M3	B1	B17	B1	S16	1-2
P11	—	B9	B25	B9	S15	2-2
P12	(M3)	—	B2	(ROCK)	S17	3-2
P13	(M2)	—	B10	M1 M2 M3	S13	4-2
P14	(M1)	B2	B18	B2	S12	5-2
P15	—	B10	B26	B10	S14	1-3
P16	DEIT	—	B3	—	S10	2-3
P17	AI	—	B11	(M3)	S9	3-3
P18	PRGM	B3	B19	B3	S11	4-3
P19	RANDOM	B11	B27	B11	S7	5-3
P20	1	DO NR	B4	(M2)	S6	1-4

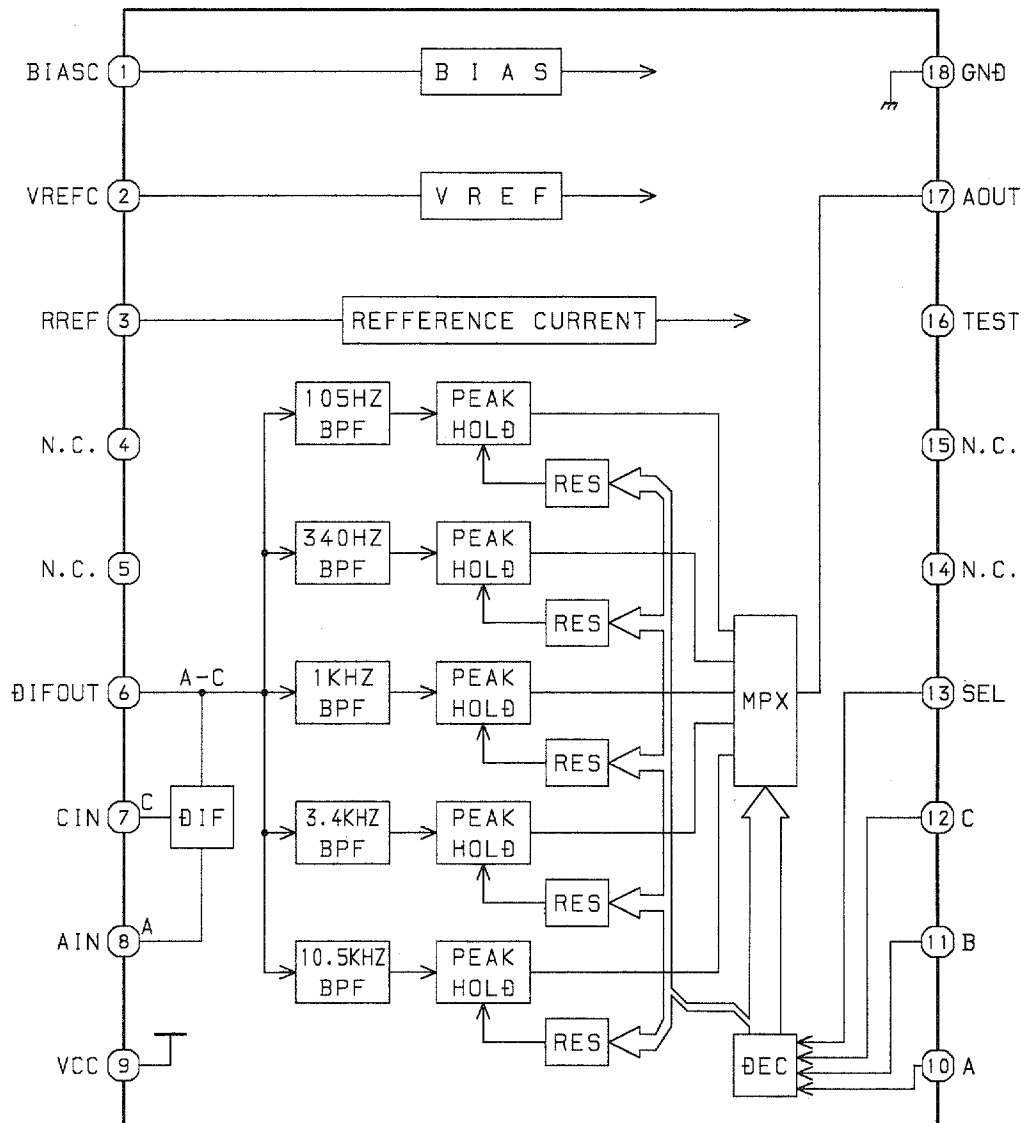
	13G	12G	11G	10G	9G	1G-8G
P21	2	(REC)	B12	(M1)	S8	2-4
P22	3	B4	B20	B4	S5	3-4
P23	4	B12	B28	B12	S2	4-4
P24	5	—	B5	REC	S3	5-4
P25	6	KHz	B13	—	S1	1-5
P26	7	B5	B21	B5	S4	2-5
P27	8	B13	B29	B13	d	3-5
P28	9	MHz	B6	SLEEP	e	4-5
P29	10	S4	B14	S4	c	5-5
P30	11	B6	B22	B6	g	1-6
P31	12	B14	B30	B14	f	2-6
P32	13	T-BASS	B7	BBE	b	3-6
P33	14	S1	B15	S1	a	4-6
P34	15	B7	B23	B7	VF	5-6
P35	16	B15	B31	B15	—	1-7
P36	17	S2	B8	S2	AUTO	2-7
P37	18	S3	B16	S3	(b)	3-7
P38	19	B8	B24	B8	(#)	4-7
P39	20	B16	B32	B16	b #	5-7

IC BLOCK DIAGRAM

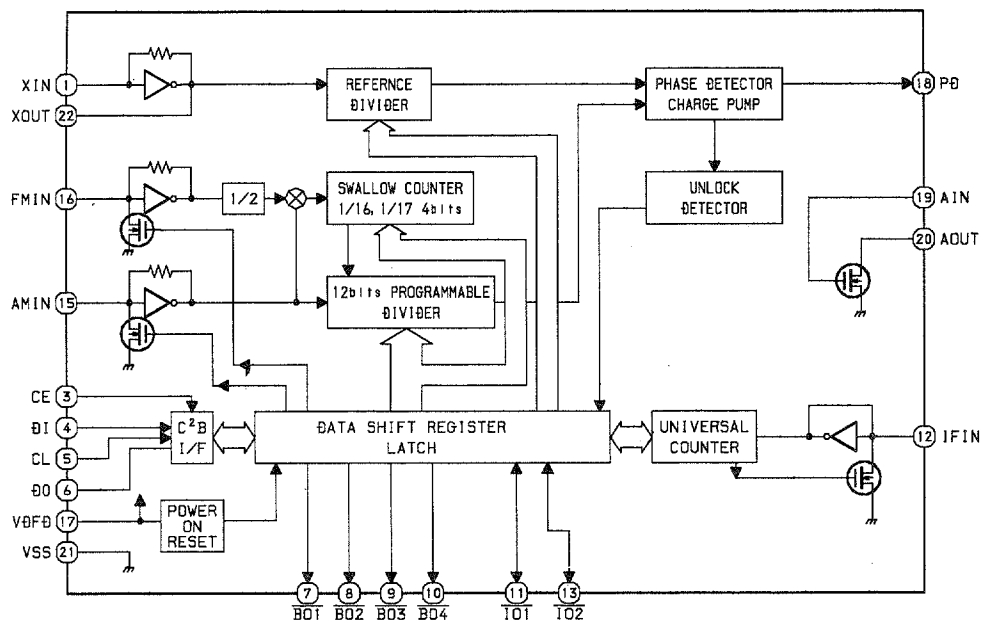
IC, NJM2152M



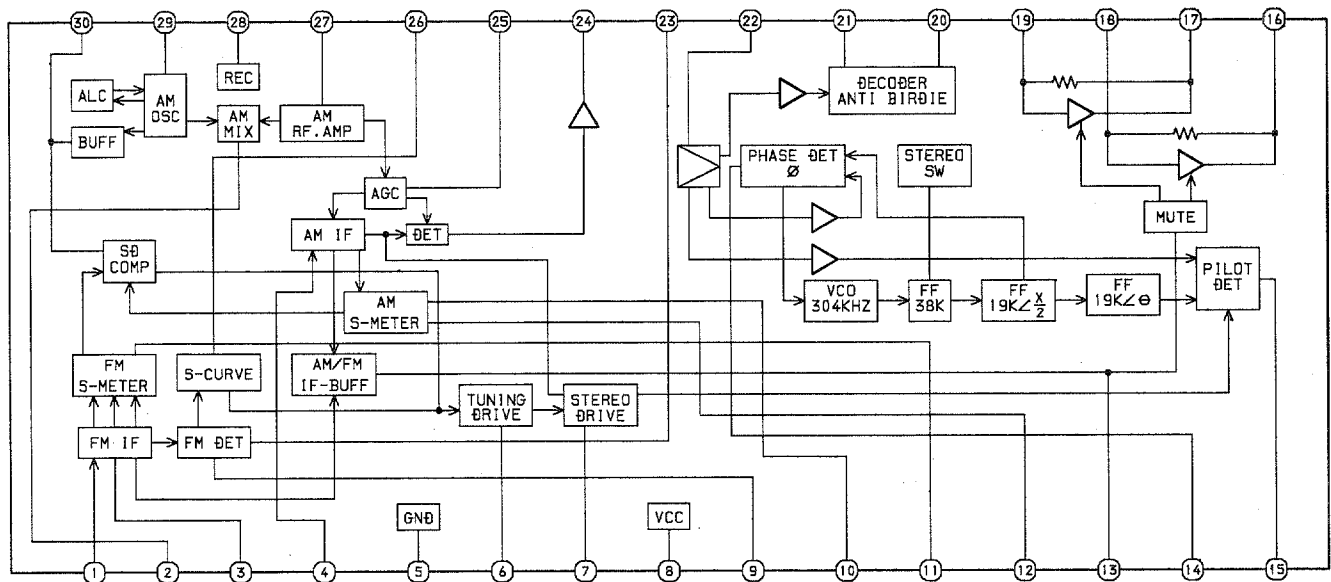
IC, BA3835S



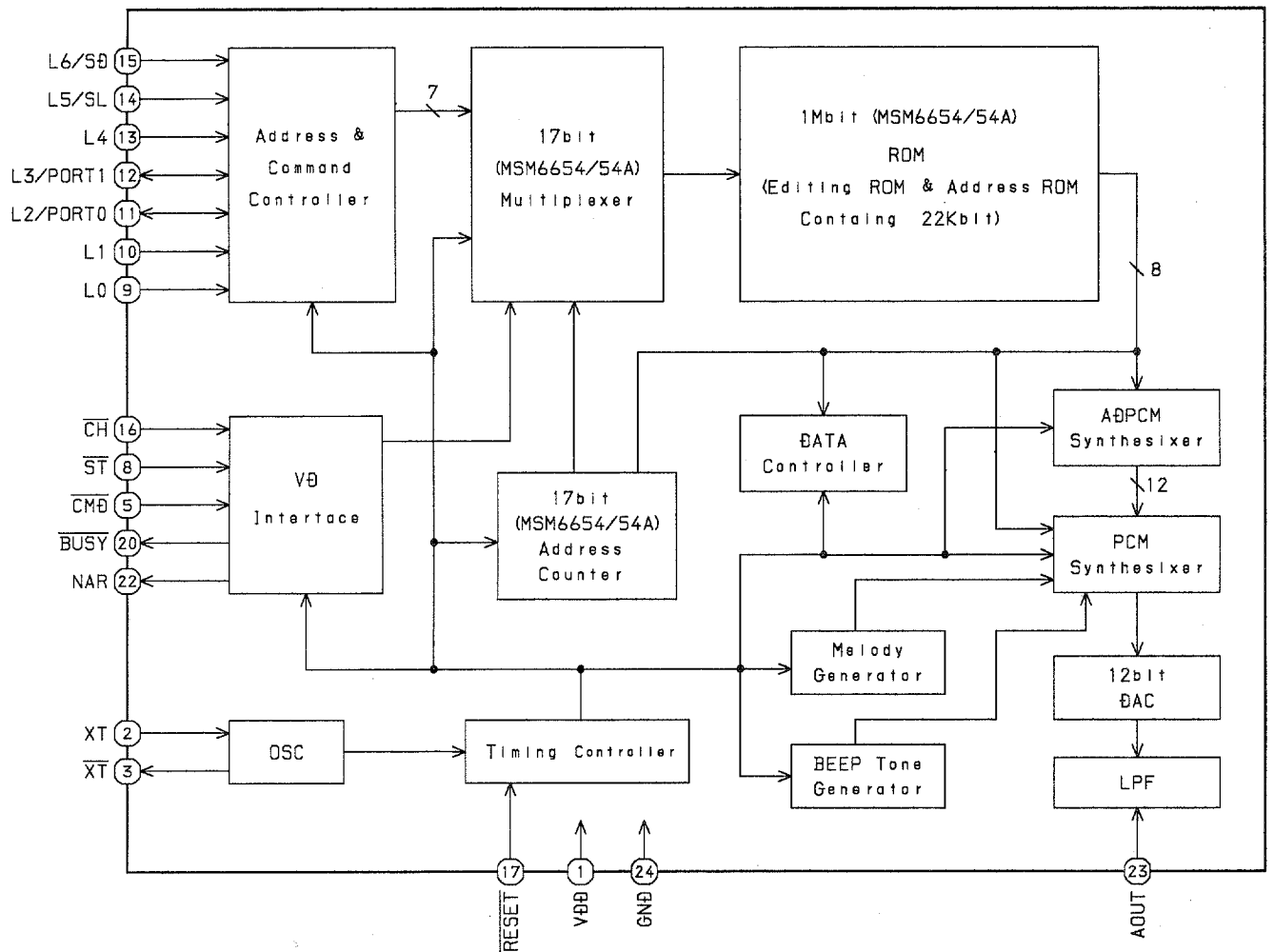
IC, LC72131D (Z)



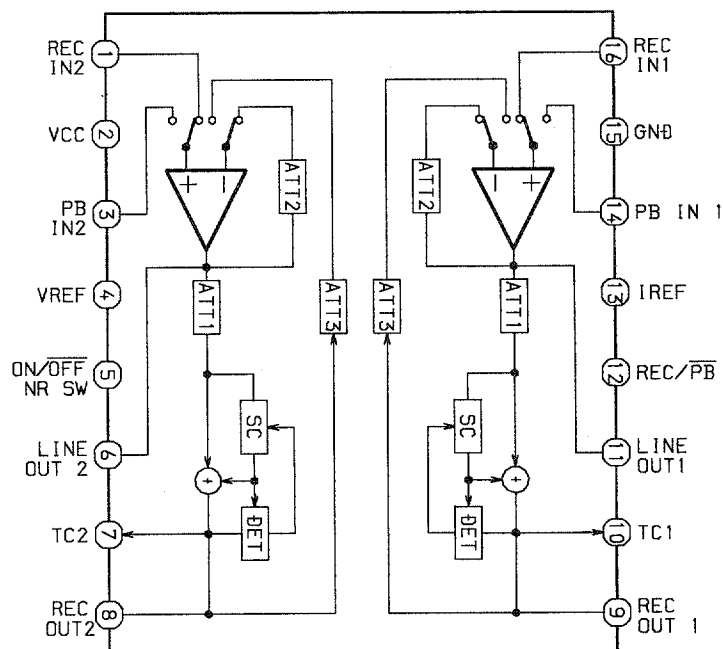
IC, LA1837



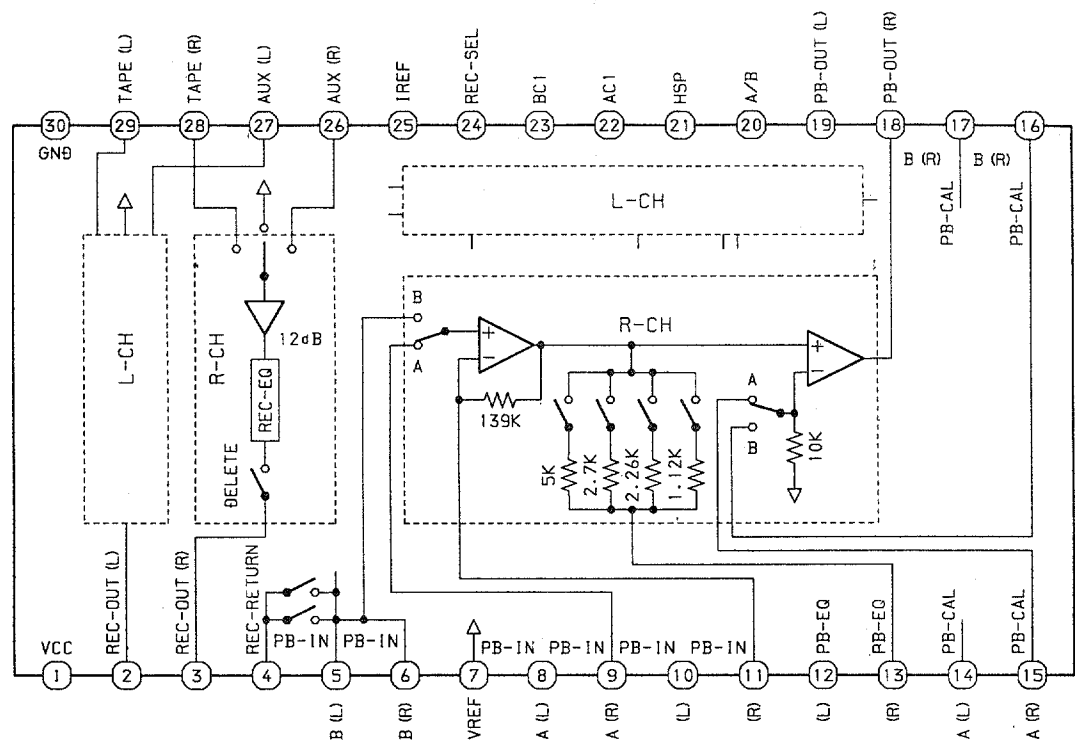
IC, MSM6654A-521GS-KR1



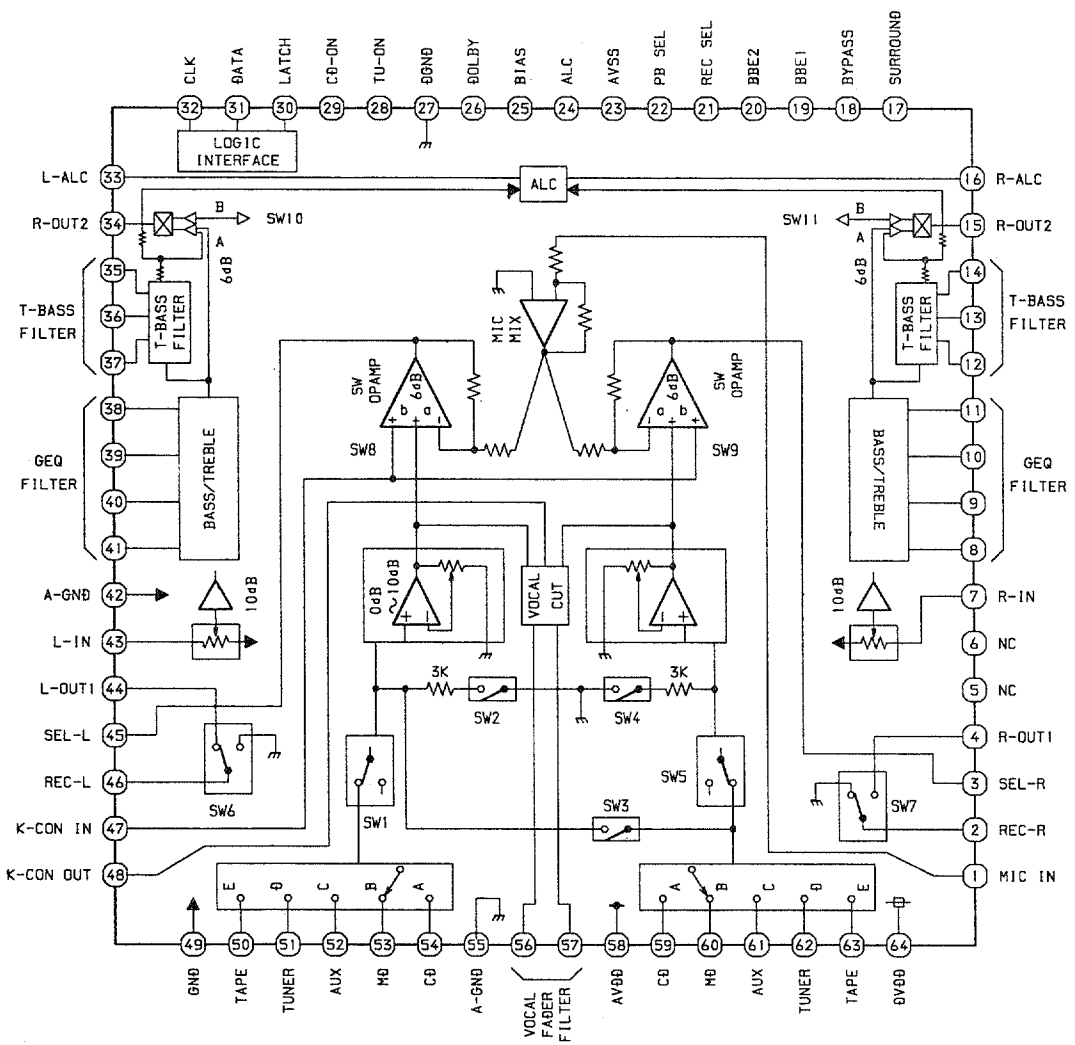
IC, CXA1553P



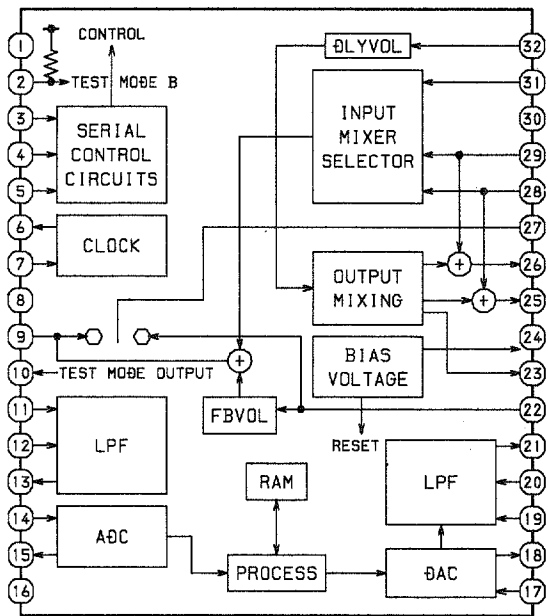
IC, HA12211



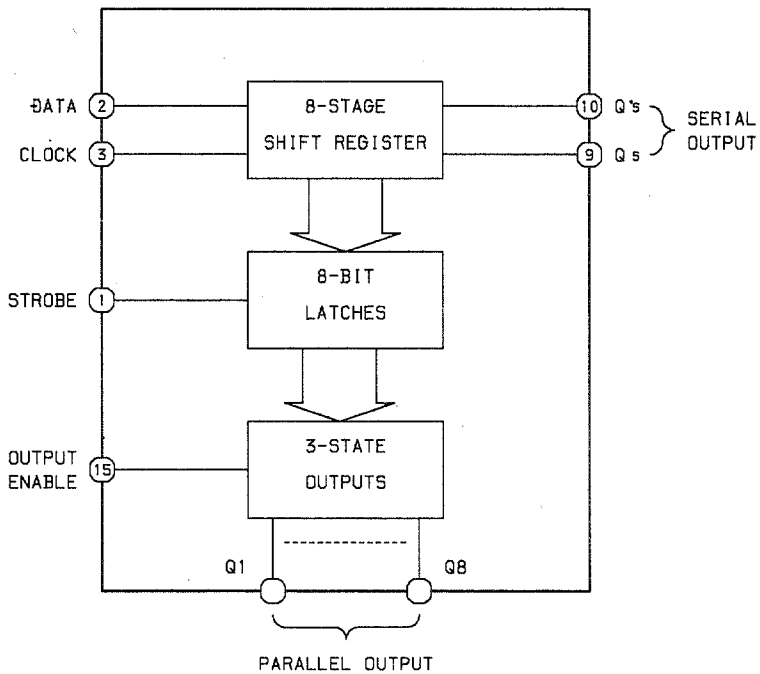
IC, M62445FP-601



IC, BU9262AFS



IC, BU4094BCF



PARALLEL OUTPUT

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

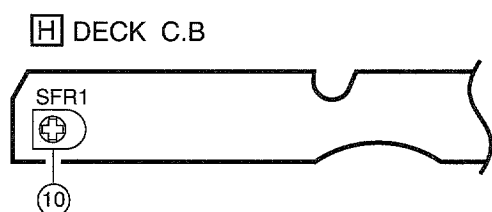
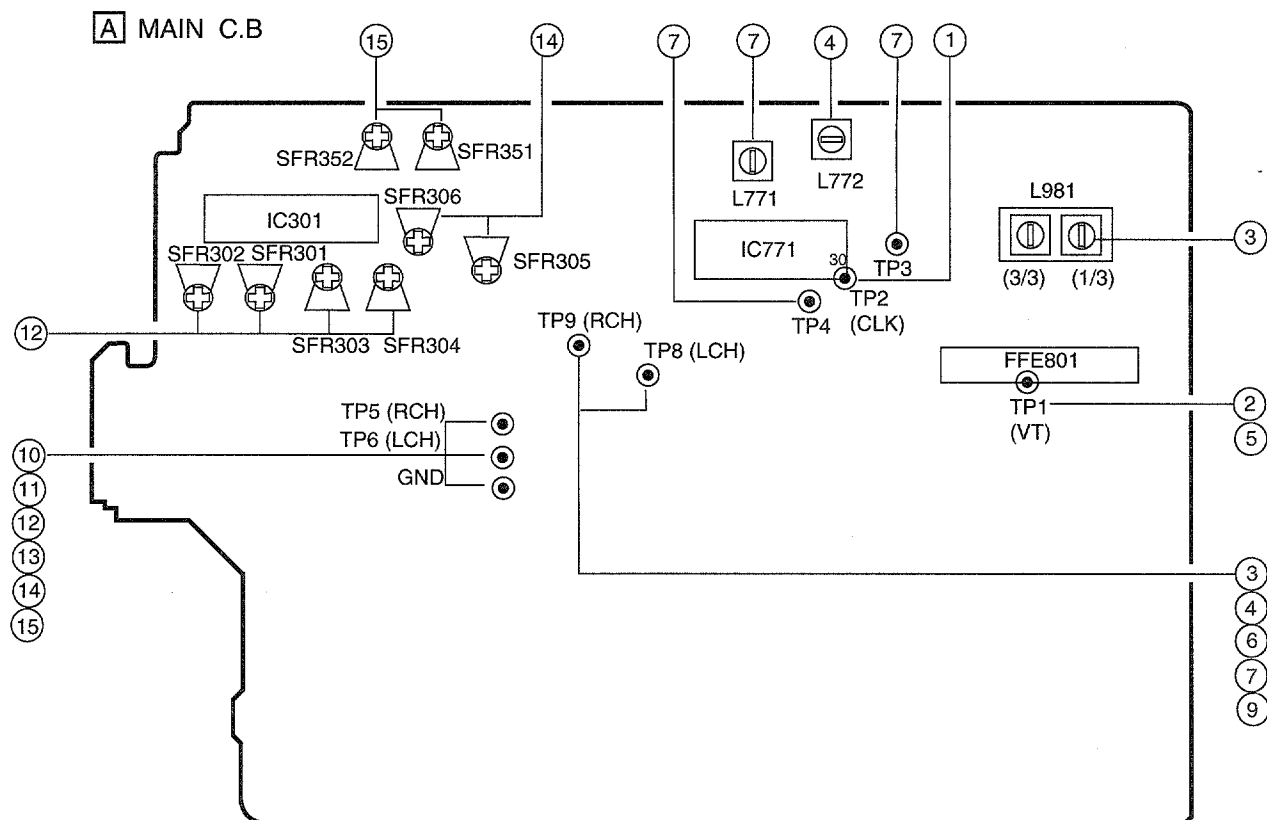
IC DESCRIPTION

IC, LC866560W-5H04

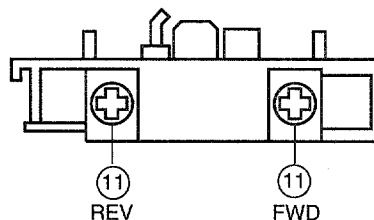
Pin No.	Pin Name	I/O	Description								
1	CLK	O	All serial IC clock output.								
2	DATA	O	All serial IC data output.								
3	STB (MAIN)	O	Main IC data latch strobe output.								
4	O-PLL CE	O	PLL IC (LC72131D) chip enable output.								
5	STB (SR)	O	Shift register data latch strobe output.								
6	RESET	I	Reset input.								
7	STB (GAME)	O	Rhythm IC data latch strabe output.								
8	NAR (GAME)	I	Sound IC NAR input.								
9	O-DSC	O	Serial data output for PROLOGIC C B.								
10	RT-A	I	ROTARY ENCORDER volume in.								
11	RT-B	O	ROTARY ENCORDER volume in.								
12	RESET	I	Reset input.								
13	JOG-A	I	ROTARY ENCORDER multi jog in.								
14	JOG-B	I	ROTARY ENCORDER multi jog in.								
15	VSS1	–	GND terminal.								
16, 17	CF1, CF2	–	5.76 MHz oscillator circuit.								
18	VDD1	–	Power supply input. Connected to VDD2.								
19	HOLD	I	Power failure detected. <table> <tr> <td>More than 4.9V</td><td>4.9V ~ 3.49V</td><td>3.49V ~ 1.41V</td><td>Less than 1.41V</td></tr> <tr> <td>P-OFF</td><td>Normal condition</td><td>P-OFF</td><td>HOLD mode</td></tr> </table>	More than 4.9V	4.9V ~ 3.49V	3.49V ~ 1.41V	Less than 1.41V	P-OFF	Normal condition	P-OFF	HOLD mode
More than 4.9V	4.9V ~ 3.49V	3.49V ~ 1.41V	Less than 1.41V								
P-OFF	Normal condition	P-OFF	HOLD mode								
20 ~ 22	KEY 1 ~ 3	I	Key input 1~3.								
23	I-CDSW	I	CD mechanical switch A/D converter input.								
24	I-DISH	I	CD turntable photo sensor A/D converter input.								
25	I-TU-SIG/MS	I	Tuner function: Tuner $\overline{\text{SD}}$ detected input. Tape function: Deck music sensor signal input.								
26	I-SPEANA	I	A/D input for spectrum analyzer display.								
27	O-KEY-SCAN	O	Switch scan timing output.								
28	I-RDS-CLK	I	RDS clock input.								
29	I-RMC	I	System remote control signal input.								
30 ~ 41, 44	G13 ~ G1	O	FL grid output G13 ~ G1.								
42, 43, 45	P39 ~ P37	O	FL segment output P39 ~ P37.								
46	VDD3	–	Power supply input. Connected to VDD4.								
47	P36/SPEANA-A	I/O	FL segment output P36 / spectrum analyzer band pass filter control A.								
48	P35/SPEANA-B	I/O	FL segment output P35 / spectrum analyzer hand pass filter control B.								
49	P34/SPEANA-C	I/O	FL segment output P34 / spectrum analyzer band pass filter control C.								
50	P33/HSP	I/O	FL segment output P33 / HSP diode detect.								
51	–VFL	–	Power supply input for FL display.								
52	P32/TU3	I/O	FL segment output P32 / tuner band select 3.								
53	P31/TU2	I/O	FL segment output P31 / tuner band select 2.								
54	P30/TU1	I/O	FL segment output P30 / tuner band select 1.								
55	P29/DSP	I/O	FL segment output P29 / DSP diode detect.								

Pin No.	Pin Name	I/O	Description
56	P28/RHYTHM	I/O	FL segment output P28 / RHYTHM diode detect.
57	P27/4MANU	I/O	FL segment output P27 / 4MANU diode detect.
58	P26/K-CON	I/O	FL segment output P26 / K-CON diode detect.
59	P25/DOLBY	I/O	FL segment output P25 /DOLBY diode detect.
60	P24/HR	I/O	FL segment output P24 / HR diode detect.
61	P23/D-SURR	I/O	FL segment output P23 / D-SURR diode detect.
62	P22/MS	I/O	FL segment output P22 / MS diode detect.
63	P21/BBE	I/O	FL segment output P21 / BBE diode detect.
64	P20/CST2	I/O	FL segment output P20 / DECK2 cassette detect switch input.
65	P19/REB	I/O	FL segment output P19 / DECK2 side-B record OK switch input.
66	P18/CAM2	I/O	FL segment output P18 / DECK2 cam switch input.
67	P17/AUTO1	I/O	FL segment output P17 / DECK1 auto stop signal input.
68	P16/AUTO2	I/O	FL segment output P16 / DECK2 auto stop signal input.
69	P15/CAM1	I/O	FL segment output P15 / DECK1 cam switch input.
70	P14/CST1	I/O	FL segment output P14 / DECK1 cassette detect switch input.
71	P13/REA	I/O	FL segment output P13 / DECK2 side-A record OK switch input.
72	VDD4	I/O	Power supply input. Connected to VDD3.
73	P12/I-HP-MUTE	I/O	FL segment output P12 / "L" input PROLOGIC DSP off.
74	P11/I-MIC	I/O	FL segment output P11 / Microphone infor for auto vocal fader ON/OFF.
75	P10/I-TMBASE	I/O	FL segment output P10 / Reference clock input for timer watch.
76	P9/AC-3+D-SURR	I/O	FL segment output P9 / AC-3+D-SURR diode detect.
77 ~ 84	P8 ~ P1	O	FL segment output P8 ~ P1.
85	TRAY-CLOSE	O	CD tray close data output.
86	TRAY-OPEN	O	CD tray open data output.
87	DISH-RVS	O	CD turntable reverse rotation output.
88	DISH-FWD	O	CD turntable forward rotation output.
89	VSS2	–	GND terminal.
90	VDD2	–	Power supply input. Connected to VDD1.
91	O-POWER	O	System power supply ON/OFF output.
92	O-SURR MUTE	O	Surround mute output.
93	SOL1	O	DECK1 solenoid output.
94	SOL2	O	DECK2 solenoid output.
95	O-MOTOR	O	DECK motor output.
96	I-SD/I-IFC	I	Tuner SD detect input/Tuner IF count serial data input.
97	O-SCLK/I-STEREO	I/O	Clock output for CD SUB-Q data/tuner stereo data input.
98	O-DATA/I-RDS	I/O	CLK control data output/tuner RDS data input.
99	I/O-BUSY	I/O	CD IC data input/output.
100	O-SEG-CONT	O	FL segment control data output.

ADJUSTMENT



DECK-1 P, DECK-2R/P/E HEAD HEAD



< TUNER SECTION >

1. Clock Frequency Check
 Settings : • Test point : TP2 (CLK)
 Method : Set to AM 1710kHz and check that the test point is 2160kHz $\pm$ 45Hz.
2. AM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to AM 530kHz (1710kHz) and check that the test point is more than 0.6V (less than 8.5V).
3. AM Tracking Adjustment
 Settings : • Test point : TP8 (Lch), TP9 (Rch)
 • Adjustment location : L981 (1/3)
 Method : Set to AM 1000kHz and adjust L981 (1/3) so that the test point becomes maximum.
4. AM IF Adjustment
 Settings : • Test point : TP8 (Lch), TP9 (Rch)
 • Adjustment location : L772 1000kHz
5. FM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to FM 87.5MHz (108.0MHz) and check that the test point is more than 0.5V (less than 8.0V).
6. 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 9dB.
7. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4 (DC balance)
 TP8, TP9 (Distortion)
 • Adjustment location : L771
 • Input level : 54dB
 Method : Set to FM 98.0MHz and adjust L771 so that the voltage (TP3 and TP4) output becomes 0V $\pm$ 0.04V.
 Next, check that the distortion is less than 1.3%.

8. Auto Stop Level Check
 AM
 Settings : • Input level : 52dB
 Method : Check the auto stop at AM 1000kHz and the output level is 52dB + 10/-15dB.

FM
 Settings : • Input level : 25dB
 Method : Check the auto stop at FM 98.0MHz and the output level is 25dB ± 10dB.

9. Output Level Check
 AM
 Settings : • Input level : 74dB
 • Test point : TP8 (Lch), TP9 (Rch)
 Method : Set to AM 1000KHz and check the test point is 200mV ± 3dB.

FM
 Settings : • Input level : 54dB
 • Test point : TP8 (Lch), TP9 (Rch)
 Method : Set to FM 98.0MHz and check the test point is 600mV ± 3dB.

< DECK SECTION >

10. Tape Speed Adjustment (DECK2)
 Settings : • Test tape : TTA-100
 • Test point : TP6 (Lch), TP5 (Rch)
 • Adjustment location : SFR1
 Method : Play back the test tape and adjust SFR1 so that the test point becomes 3000Hz ± 5Hz(FWD) and FWD PLAY speed ± 45Hz(REV).

11. Head Azimuth Adjustment (DECK1, DECK2)
 Settings : • Test tape : TTA-300
 • Test point : TP6 (Lch), TP5 (Rch)
 • Adjustment location : Head azimuth adjustment screw
 Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

12. PB Sensitivity Adjustment (DECK1, DECK2)
 Settings : • Test tape : TTA-200
 • Test point : TP6 (Lch), TP5 (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 of the test point becomes 245mV.

13. PB Frequency Response Check (DECK1, DECK2)
 Settings : • Test tape : TTA-300
 • Test point : TP6 (Lch), TP5 (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 0dB ± 3dB.
 Next, check that the Lch and Rch difference level of 10kHz signal is less than 2dB.

14. REC/PB Sensitivity Adjustment (DECK2)
 Settings : • Test tape : TTA-602
 • Test point : TP6 (Lch), TP5 (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 TP5, TP6 becomes 12mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 0dB ± 0.5dB.

15. REC/PB Frequency Response Adjustment (DECK2)
 Settings : • Test tape : TTA-602
 • Test point : TP6 (Lch), TP5 (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 12mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	Less than 10dB [at 87.5MHz] Less than 9dB [at 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity (L-R) :	Less than 35dB [at 98.0MHz]
Signal to noise ratio :	(MONO) More than 68dB (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

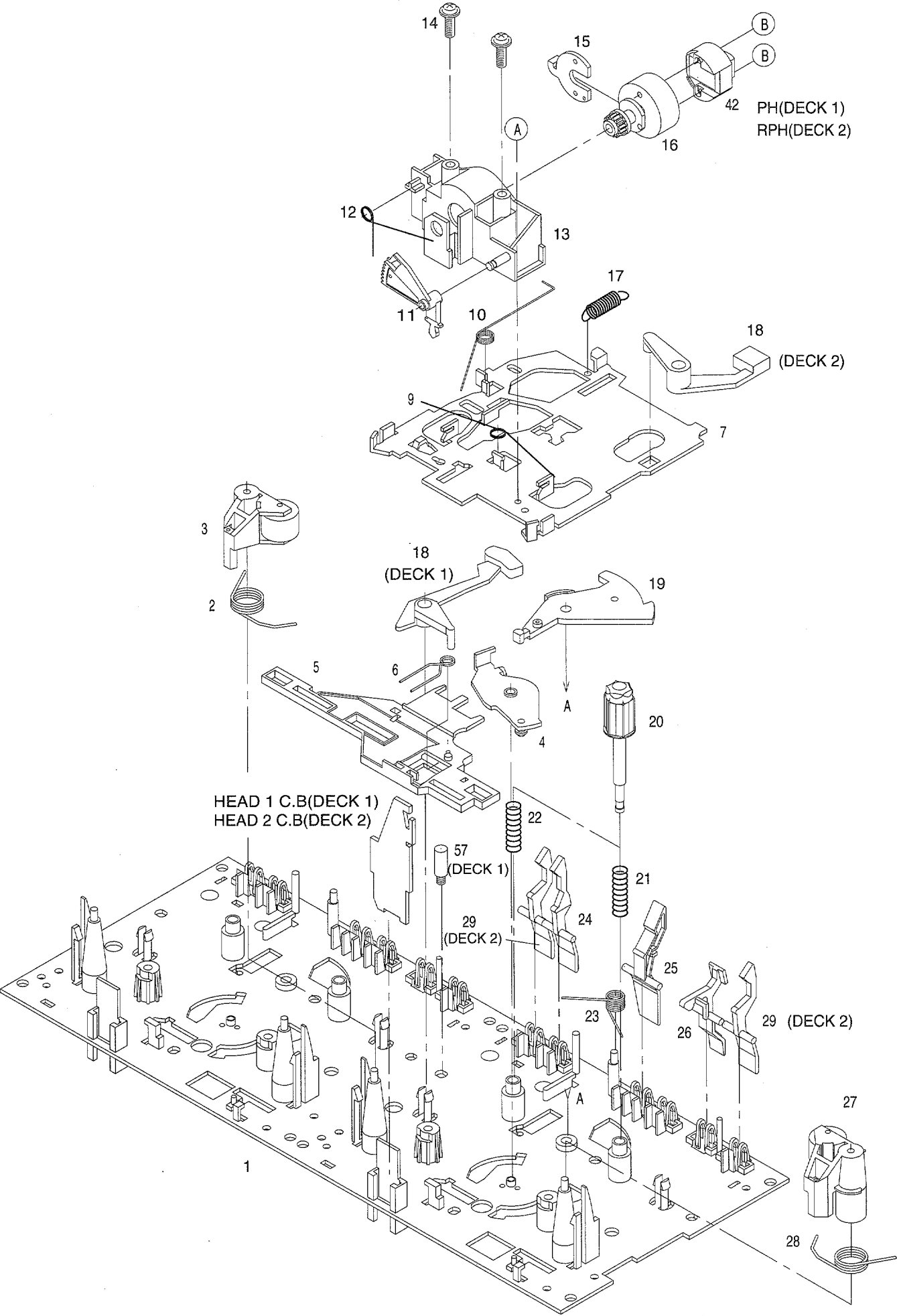
<AM SECTION>

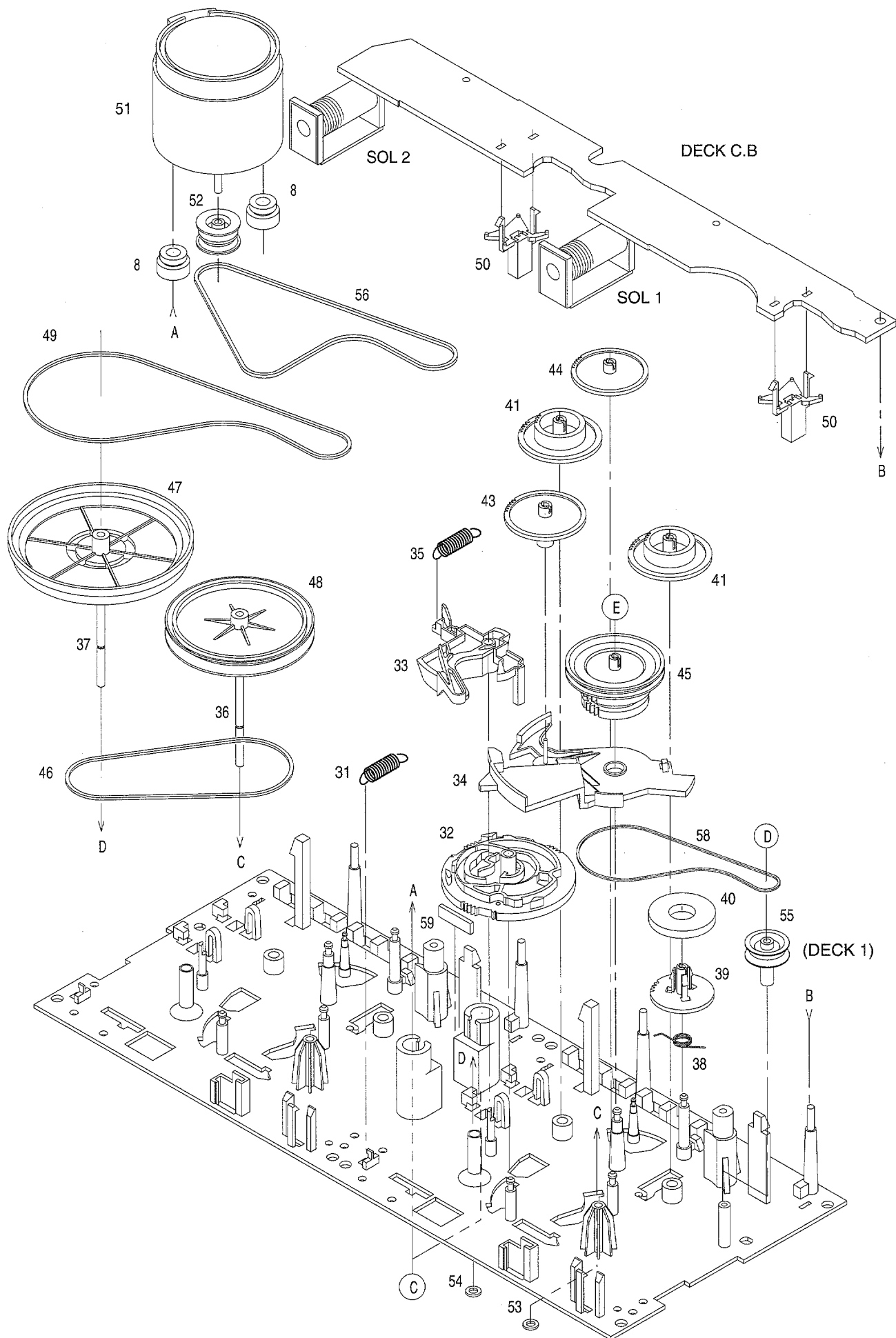
Sensitivity : (S/N 20 dB)	Less than 60dB [at 600kHz] Less than 58dB [at 1000 / 1400kHz]
Signal to noise ratio :	More than 36dB [at 1000kHz]
Distortion :	Less than 1.5% [at 1000kHz]
Auto stop level :	52dB + 10/-15dB [at 1000kHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz $\pm$ 45Hz
Wow & flutter :	Less than 0.21% (W.R.M.S)
Pinch roller pressure :	270 ~ 330g (FWD, REV)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB Output level :	2.8V $\pm$ 2dB
REC/PB Output level :	0dB $\pm$ 1dB (NORMAL) 0dB $\pm$ 2dB (CrO2)
Distortion (REC/PB) :	Less than 2.0% (NORMAL, CrO2)
Noise level (PB) :	Less than 20mV (NORMAL)
Noise level (REC/PB) :	Less than 20mV (DOLBY OFF, NORMAL)
Erasing ratio :	More than 60dB (at 125Hz, 10VU)
Test tape :	NORMAL : TTA-602 CrO2 : TTA-615

TAPE MECHANISM EXPLODED VIEW 1 / 1



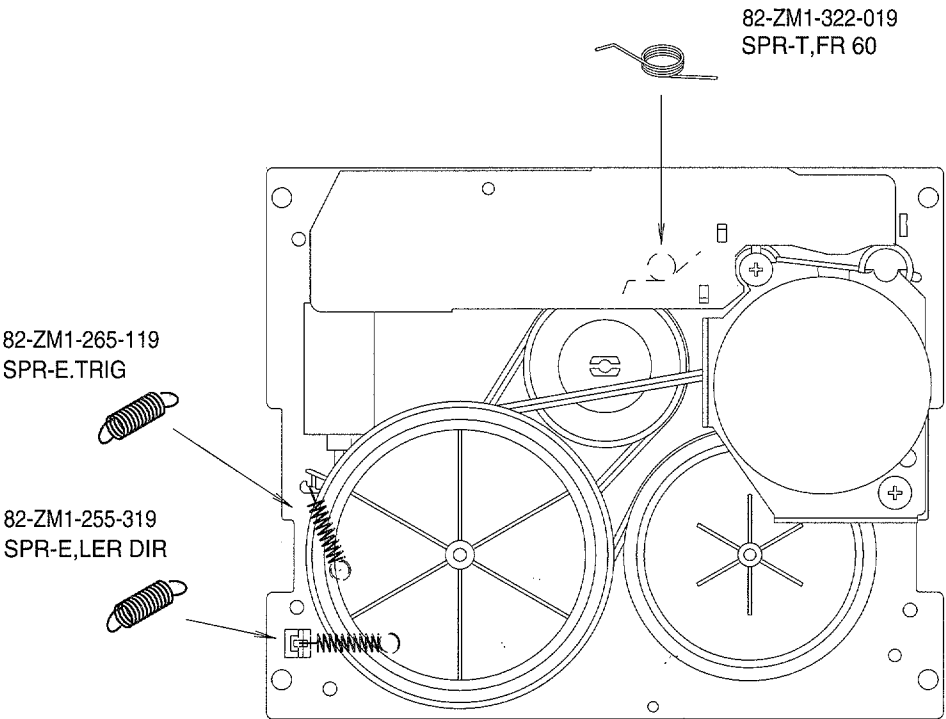
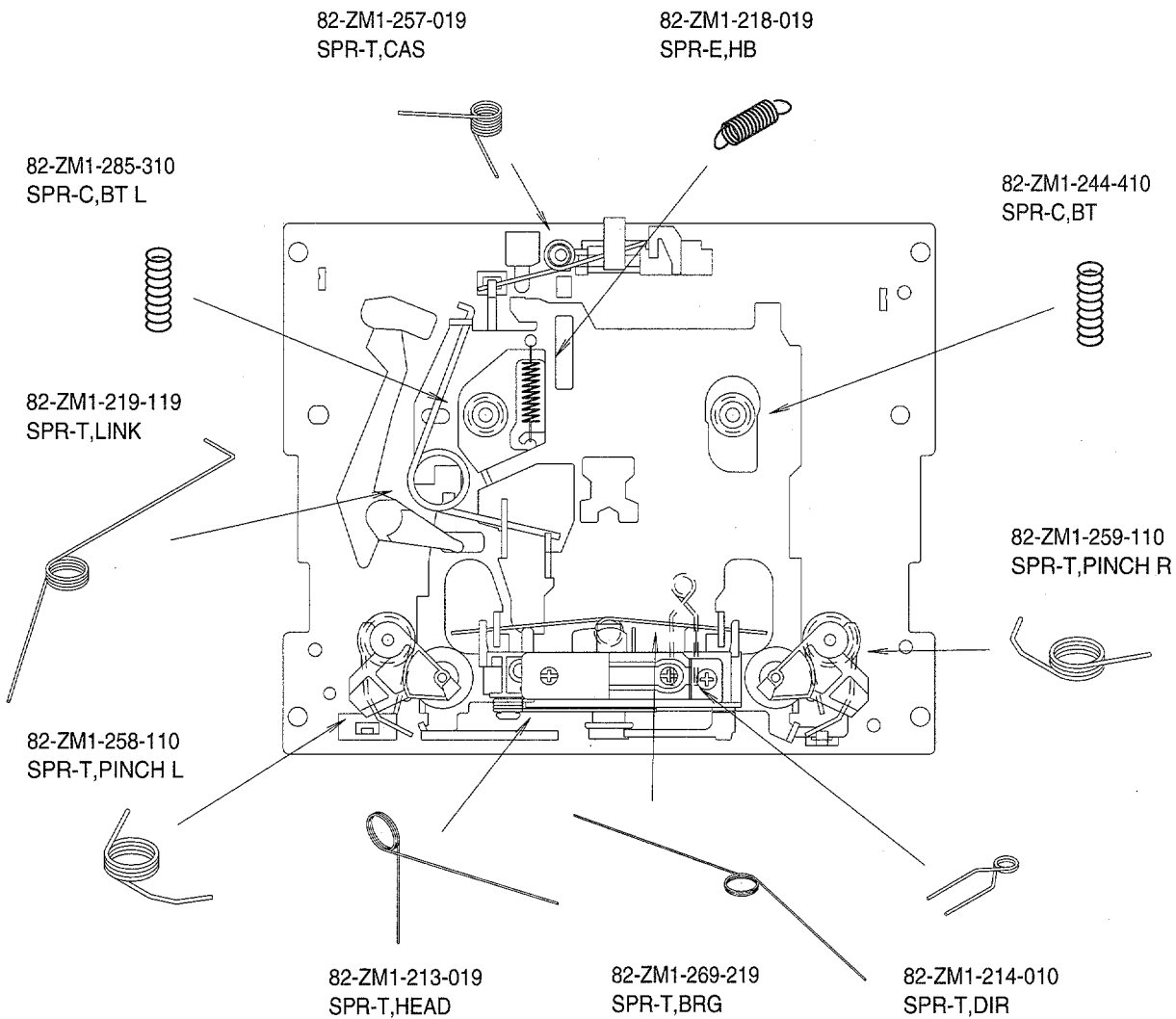


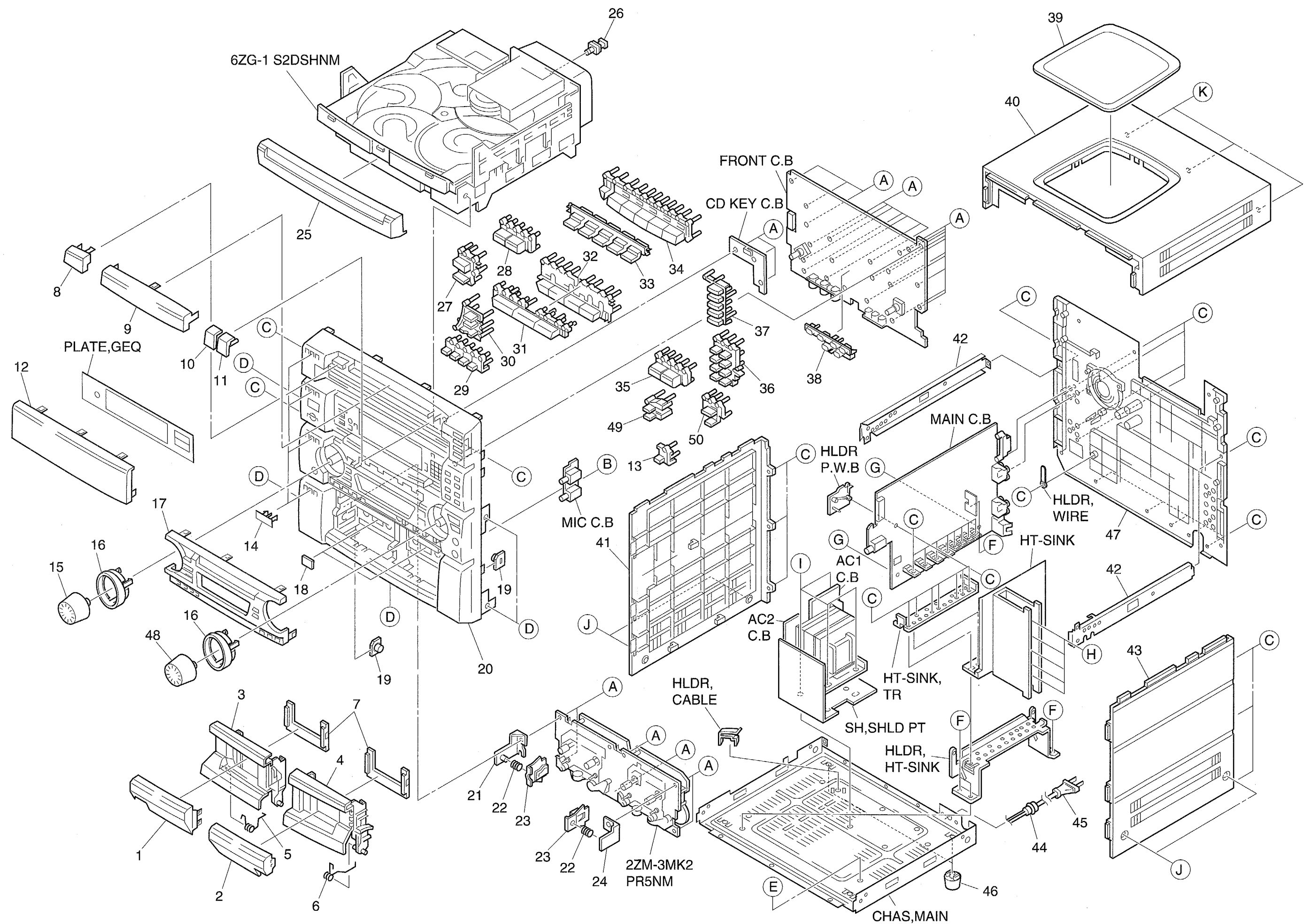
TAPE MECHANISM PARTS LIST 1 / 1

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-A90-366-010		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		PN, 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





MECHANICAL PARTS LIST 1 / 1

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

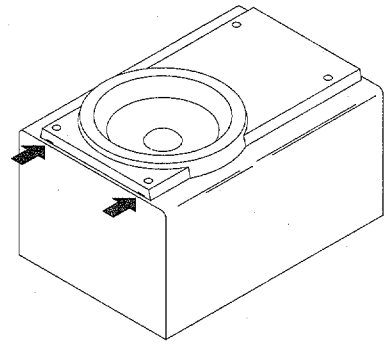
REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-MA1-027-010		WINDOW, CASS L
2	88-MA1-028-010		WINDOW, CASS R
3	88-MA1-004-010		BOX, CASS L
4	88-MA1-005-010		BOX, CASS R
5	82-NF5-218-010		SPR-T, EJECT 1 (SIN)
6	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
7	86-NF6-061-010		REFLECTOR, CASS
8	88-MA1-012-010		PANEL, CD
9	88-MA1-025-010		WINDOW, CD
10	88-MA1-011-010		KEY, CHANGE
11	88-MA1-010-010		KEY, OPEN
12	88-MA1-026-010		WINDOW, AMP
13	88-MA1-024-010		KEY, VF
14	82-NE8-032-010		BADGE, AIWA 27.5
15	88-MA1-060-010		KNOB, RTRY RHYTHM
16	88-MA1-029-010		RING, VOL
17	88-MA2-013-010		PANEL, FR (2)
18	81-532-080-010		LABEL, CASS. COMPT
19	87-NF8-220-010		DMPR, 150
20	88-MA2-001-010		CABI, FR H(2)
21	87-NF4-216-010		HLDR, LOCK 1
22	86-NF9-224-010		SPR-C, LOCK
23	82-NF5-229-010		PLATE, LOCK
24	87-NF4-217-010		HLDR, LOCK 2
25	88-MA1-013-010		PANEL, TRAY
26	84-ZG1-245-210		CAP, OPTICAL
27	88-MA1-015-010		KEY, POWER
28	88-MA2-025-010		KEY, BBE(2)
29	88-MA2-023-010		KEY, DEMO(2)
30	88-MA1-019-010		KEY, JOG
31	88-MA1-039-010		KEY, ASSY PLAY
32	88-MA1-040-010		KEY, ASSY FF
33	88-MA1-045-010		REFLECTOR, FUN
34	88-MA1-018-010		KEY, FUN
35	88-MA2-015-010		KEY, PRGM(2)
36	88-MA2-009-010		KEY, GEQ(2)
37	88-MA1-009-010		KEY, DIRECT
38	88-MA1-201-010		GUIDE, PLAY
39	86-MA3-042-010		WINDOW, TOP
40	88-MA1-006-010		PANEL, TOP
41	88-MA1-007-010		PANEL, SIDE L
42	88-MA1-208-010		JOINT, CABI
43	88-MA1-008-010		PANEL, SIDE R
44	87-085-185-010		BUSHING, AC CORD (E)
45	87-050-079-010		AC-CORD ASSY, E
46	87-MA3-062-010		FOOT, H17
47	88-MA2-006-010		CABI, REAR LH
48	88-MA1-030-010		KNOB, RTRY MAIN
49	88-MA1-058-010		KEY, REV
50	88-MA1-022-010		KEY, MIC
A	87-078-060-010		BVIT3PB+3-10
B	81-MK1-210-010		S-SCREW, VFT2+3-16
C	87-067-703-010		TAPPING SCREW, BVT2+3-10
D	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
E	87-067-688-010		BVTT+3-6
F	87-067-579-010		TAPPING SCREW, BVT2+3-8
G	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
H	87-B10-090-010		BVIT3B+3-12 GOLD
I	87-067-975-010		S-SCREW, IT+4-8
J	87-067-641-010		UTT2+3-8(W/O SLOT)BL
K	87-067-758-010		BVT2+3-12 W/O SLOT

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。

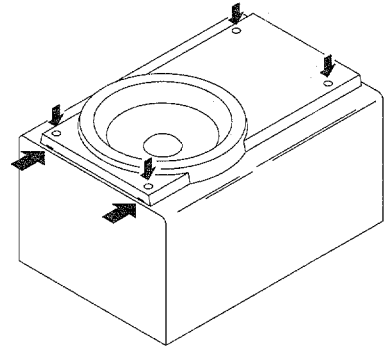
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



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。

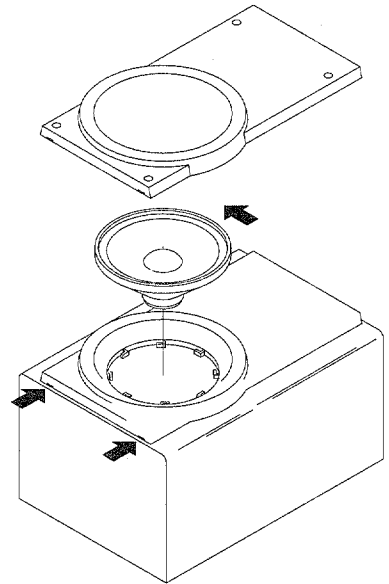
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from the hole where the rubber caps were installed. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker 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 the 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 (SX-WZR88YLBNL) 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	88-MS1-001-010		PANEL, FR
2	88-MS1-003-010		PANEL, TW L
3	88-MS1-002-010		PANEL, TW R
4	88-MS1-005-010		PANEL, DUCT
5	88-MS1-006-010		PANEL, COVER
6	88-MS1-010-010		GRILLE, FRAME ASSY
7	88-MS1-603-010		SPKR, M 140
8	88-MS1-605-010		SPKR, T 60
9	88-MS1-608-010		SPKR, CERAMIC
10	88-MS1-610-010		CORD, SPKR
11	88-MS2-602-010		SPKR, W 240

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-MA2-902-010		IB, LH(ESP) M
2	87-A90-030-010		ANT, LOOP AM-NC C
⚠ 3	87-099-789-010		PLUG, CONVERSION IR44
4	87-MA6-702-010		RC UNIT, 7AS01
5	87-043-115-010		FEEDER-ANT, FM

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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