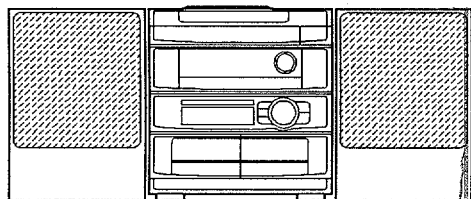


aiwa



Z-R900



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR5N
- BASIC CD MECHANISM : 6ZG-1 SDFNM

- TYPE : LH, HE

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-R900	CX-ZR900	SX-ZR900	RC - 7AS01

- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, S/M Code No. 09-975-198-00T.

MANUAL
SERVICE

SPECIFICATIONS

<FM Tuner section>

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

<AM Tuner section>

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity 350 μ V/m
Antenna Loop antenna

<Amplifier section>

Power output* HE :
 Rated 145 W + 145 W
 (6 ohms, T.H.D. 1 %, 1 kHz)
 Reference : 200 W + 200W
 (6 ohms, T.H.D. 10 %, 1 kHz)

*without connecting the SURROUND SPEAKER

Total harmonic distortion

LH :
 200 W + 200W
 (6 ohms, T.H.D. 10 %, 1 kHz)

HE :
 0.1 % (20 W, 1 kHz, 6 ohms, DIN AUDIO)

LH :
 0.1 % (80 W, 1 kHz, 6 ohms, DIN AUDIO)

Inputs

VIDEO/AUX : 210 mV (adjustable)
 PHONO : 340 mV (47 kohms)
 MIC 1, MIC 2 : 1.4 mV (20 kohms)

Outputs

LINE OUT : 200mV
 CD DIGITAL OUT (OPTICAL)
 HE :
 SUPER WOOFER : 3.5 V
 LH :
 SUPER WOOFER : 3.7 V
 SPEAKERS: accept speakers of 6 ohms or more
 SURROUND SPEAKERS :
 accept speakers of 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 CrO2 tape : 50 Hz ~ 16000 Hz
 Normal tape : 50 Hz ~15000 Hz
Signal-to-noise ratio 60 dB (Dolby B NR ON, CrO2 tape peak level, above 400 Hz)
Recording system AC bias
Heads Deck 1 : Playback head x1
 Deck 2 : Recording/playback/erase head x 1

<Compact disc player section>

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


<Speaker system SX-ZR900>

Cabinet type 3 way, bass reflex
Speakers Woofer :
 220 mm cone type
 Tweeter :
 80 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) 260 x 444 x 275 mm
Weight 4.8 kg

<General>

Power requirements 120 V/220 - 230 V/240 V AC, switchable 50/60 Hz
Power consumption 190 W
Dimensions of main unit (W x H x D) 360 x 394.5 x 382 mm
Weight of main unit 12.5 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.

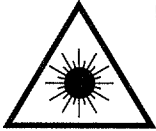
• The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
 Under license from BBE Sound, Inc.

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 käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

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

CAUTION

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

ATTENTION

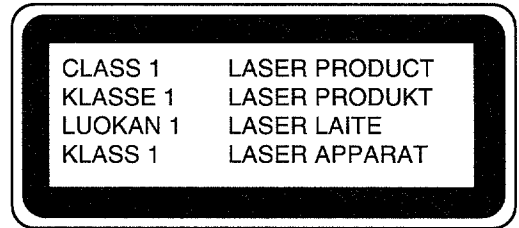
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

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

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

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

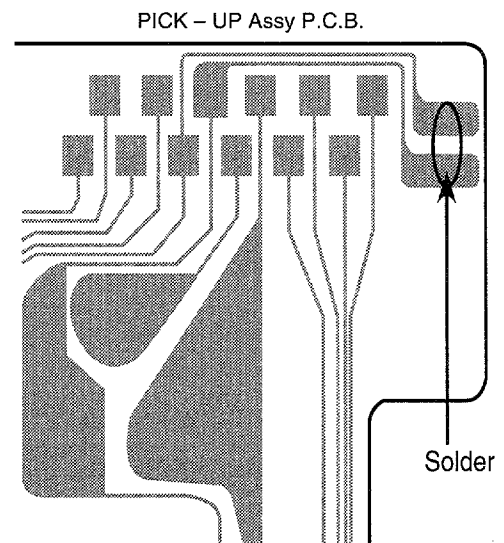


Precaution to replace Optical block

(KSS-213B)

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 figure below.



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				C103	87-A10-056-090		CAP,E 4700-35 M
	87-MA3-602-010		C-IC, LC866560W-5E53	C104	87-A10-056-090		CAP,E 4700-35 M
	87-A20-593-010		IC, SPS-442-1-A	C105	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-017-915-080		C-IC, BU4094BCF	C106	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-455-010		IC, HA12211	C107	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-355-010		IC, CXA1553P				
	87-A20-083-010		IC, BA3835S	C108	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A20-450-040		C-IC, BH3864F	C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-056-010		IC, BA3880S	C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-451-040		C-IC, BU9262FS	C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-561-040		C-IC, M65847AFP<HE>	C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-456-040		C-IC, BH3810FS				
	87-017-888-080		C-IC, NJM4558MD	C113	87-010-247-080		CAP,E 100-50 M SME
	87-A20-437-010		C-IC, M62431FP	C114	87-010-247-080		CAP,E 100-50 M SME
	86-NFZ-655-010		IC, LC72131D(Z)	C115	87-010-247-080		CAP,E 100-50 M SME
	87-A20-438-010		IC, LA1837	C116	87-010-247-080		CAP,E 100-50 M SME
	87-020-454-010		IC, DN6851	C117	87-010-430-080		CAP,E 100-63
TRANSISTOR							
	87-026-263-080		C-TR, RN1410	C118	87-010-263-080		CAP,E 100-10 SME
	89-213-702-010		TR, 2SB1370E	C119	87-010-260-080		CAP,E 47-25 SME
	87-A30-076-080		C-TR, 2SC3052F	C120	87-010-403-080		CAP,E 3.3-50 M SME
	89-112-965-080		TR, 2SA1296GR	C121	87-012-140-080		C-CAP,S 470P-50 J CH
	87-026-610-080		TR, KTC3198GR	C123	87-010-247-080		CAP,E 100-50 M SME
	87-A30-073-080		C-TR, RT1N 141C				
	87-A30-085-070		C-TR, CSA1362GR	C124	87-010-112-080		CAP,E 100-16 M SME
	87-A30-083-080		TR, CSD1489B	C125	87-010-235-080		CAP,E 470-16 SME
	87-A30-075-080		C-TR, 2SA1235F	C126	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-A30-084-080		TR, CSB1058B	C127	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-A30-071-080		C-TR, RT1N 144C	C129	87-010-393-080		CAP,E 100-35 M SME
	87-026-609-080		TR, KTA1266GR				
	87-A30-086-070		C-TR, CSD1306E	C201	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-106-070		C-TR, CMBT5551	C202	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-111-080		TR, C2N5401	C205	87-010-188-080		C-CAP,S 6800P-50 K B
	87-A30-097-010		TR, FN1016	C206	87-010-188-080		C-CAP,S 6800P-50 K B
	87-A30-098-010		TR, FP1016	C207	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-089-010		FET, 2SK2723				
	87-A30-072-080		C-TR, RT1P 144C	C208	87-010-404-080		CAP,E 4.7-50 M SME
	87-026-266-080		C-TR, RN2404	C209	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-087-080		C-FET, 2SK2158	C210	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-074-080		C-TR, RT1P 141C	C211	87-010-186-080		C-CAP,S 4700P-50 K B
	89-327-143-080		C-TR, 2SC2714(O)	C212	87-010-186-080		C-CAP,S 4700P-50 K B
	87-026-463-080		TR, 2SA933SRS				
DIODE							
	87-A40-270-080		C-DIODE, MC2838	C213	87-010-260-080		CAP,E 47-25 SME
	87-A40-224-010		DIODE, GBU8DL	C214	87-010-260-080		CAP,E 47-25 SME
	87-A40-246-080		DIODE, 1N4148T-72	C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-017-437-080		DIODE, 1N4148M	C219	87-012-368-080		C-CAP,S 0.1-50 Z F
	87-A40-269-080		C-DIODE, MC2836	C220	87-012-368-080		C-CAP,S 0.1-25 Z F
	87-070-274-080		DIODE, 1N4003 SEM	C221	87-012-368-080		C-CAP,S 0.1-25 Z F
	87-A40-205-080		ZENER, UZ6.2BSC	C222	87-012-368-080		C-CAP,S 0.1-25 Z F
	87-A40-341-080		ZENER, MTZJ36A	C223	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-017-933-080		ZENER, MTZJ10D	C225	87-A10-516-080		C-CAP,S 100P-200 CH
	87-070-178-090		DIODE, 1N5402-BD54<HE>	C226	87-A10-516-080		C-CAP,S 100P-200 CH
	87-A40-370-090		DIODE, RK46-P20<LH>				
	87-070-136-080		ZENER, MTZJ5.1B	C242	87-010-406-080		CAP,E 22-50 M SME
	87-070-345-080		DIODE, 1N4148	C243	87-010-197-080		C-CAP,S 0.01-25 K B
	87-017-931-080		ZENER, MTZJ5.6B	C244	87-010-406-080		CAP,E 22-50 M SME
	87-A40-003-080		ZENER, MTZJ4.3A	C301	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A40-004-080		ZENER, MTZJ16A	C302	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A40-234-080		ZENER, MTZJ5.6A				
MAIN C.B							
C101	87-A10-231-090		CAP,E 3300-80	C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C102	87-A10-231-090		CAP,E 3300-80	C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
				C305	87-012-145-080		C-CAP,S 270P-50 J CH
				C306	87-012-145-080		C-CAP,S 270P-50 J CH
				C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C311	87-010-198-080		C-CAP,S 0.022-25 K B
				C312	87-010-198-080		C-CAP,S 0.022-25 K B
				C313	87-010-180-080		C-CAP,S 1500P-50 K B
				C314	87-010-180-080		C-CAP,S 1500P-50 K B
				C315	87-010-179-080		C-CAP,S 1500P-50 K B
				C316	87-010-179-080		C-CAP,S 1500P-50 K B
				C317	87-012-142-080		C-CAP,S 0.33-16 Z F
				C318	87-012-142-080		C-CAP,S 0.33-16 Z F
				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 M SME
				C327	87-010-404-080		CAP,E 4.7-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C328	87-010-404-080		CAP,E 4.7-50 M SME	C614	87-010-404-080		CAP,E 4.7-50 M SME
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C615	87-010-183-080		C-CAP,S 2700P-50 K B
C335	87-010-401-080		CAP,E 1-50 M SME	C619	87-010-263-080		CAP,E 100-10 SME
C336	87-010-401-080		CAP,E 1-50 M SME	C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C621	87-010-263-080		CAP,E 100-10 SME
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C351	87-012-140-080		C-CAP,S 470P-50 J CH	C646	87-010-322-080		C-CAP,S 100P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH	C647	87-010-322-080		C-CAP,S 100P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL	C701	87-010-381-080		CAP,E 330-16 SME
C355	87-010-178-080		C-CAP,S 1000P-50 K B	C702	87-010-404-080		CAP,E 4.7-50 M SME
C356	87-010-260-080		CAP,E 47-25 SME	C703	87-010-197-080		C-CAP,S 0.01-25 K B
C357	87-010-197-080		C-CAP,S 0.01-25 K B	C704	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B	C711	87-010-263-080		CAP,E 100-10 SME
C359	87-010-183-080		C-CAP,S 2700P-50 K B	C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C360	87-010-183-080		C-CAP,S 2700P-50 K B	C713	87-010-197-080		C-CAP,S 0.01-25 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C714	87-010-197-080		C-CAP,S 0.01-25 K B
C371	87-010-179-080		C-CAP,S 1200P-50 K B	C721	87-010-312-080		C-CAP,S 15P-50 J CH
C372	87-010-179-080		C-CAP,S 1200P-50 K B	C722	87-010-312-080		C-CAP,S 15P-50 J CH
C373	87-010-179-080		C-CAP,S 1200P-50 K B	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C374	87-010-179-080		C-CAP,S 1200P-50 K B	C725	87-010-178-080		C-CAP,S 1000P-50 K B
C375	87-010-545-080		CAP,E 0.22-50 M SME	C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C376	87-010-545-080		CAP,E 0.22-50 M SME	C728	87-010-248-080		CAP,E 220-10 SME
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C755	87-010-197-080		C-CAP,S 0.01-25 K B
C381	87-010-197-080		C-CAP,S 0.01-25 K B	C756	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-318-080		C-CAP,S 47P-50 J CH	C757	87-010-318-080		C-CAP,S 47P-50 J CH
C383	87-010-197-080		C-CAP,S 0.01-25 K B	C758	87-010-149-080		C-CAP,S 5P-50 CH
C384	87-010-402-080		CAP,E 2.2-50 M SME	C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C385	87-010-184-080		C-CAP,S 3300P-50 K B	C762	87-010-197-080		C-CAP,S 0.01-25 K B
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C388	87-010-154-080		C-CAP,S 10P-50 D CH	C765	87-010-197-080		C-CAP,S 0.01-25 K B
C401	87-010-184-080		C-CAP,S 3300P-50 K B	C766	87-010-197-080		C-CAP,S 0.01-25 K B
C402	87-010-184-080		C-CAP,S 3300P-50 K B	C767	87-010-405-080		CAP,E 10-50 M SME
C403	87-010-405-080		CAP,E 10-50 M SME	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C404	87-010-405-080		CAP,E 10-50 M SME	C769	87-010-408-080		CAP,E 47-50 SME
C405	87-010-260-080		CAP,E 47-25 SME	C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C406	87-010-101-080		CAP,E 220-16 SME	C771	87-010-407-080		CAP,E 33-50 SME
C407	87-010-188-080		C-CAP,S 6800P-50 K B	C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C408	87-010-188-080		C-CAP,S 6800P-50 K B	C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C409	87-012-140-080		C-CAP,S 470P-50 J CH	C774	87-010-263-080		CAP,E 100-10 SME
C410	87-012-140-080		C-CAP,S 470P-50 J CH	C775	87-010-404-080		CAP,E 4.7-50 M SME
C411	87-010-197-080		C-CAP,S 0.01-25 K B	C776	87-010-197-080		C-CAP,S 0.01-25 K B
C412	87-010-197-080		C-CAP,S 0.01-25 K B	C777	87-010-400-080		CAP,E 0.47-50 M SME
C413	87-010-195-080		C-CAP,S 0.068-25 Z F C2012	C778	87-010-401-080		CAP,E 1-50 M SME
C414	87-010-195-080		C-CAP,S 0.068-25 Z F C2012	C779	87-010-401-080		CAP,E 1-50 M SME
C415	87-010-404-080		CAP,E 4.7-50 M SME	C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C416	87-010-404-080		CAP,E 4.7-50 M SME	C781	87-010-405-080		CAP,E 10-50 M SME
C417	87-010-404-080		CAP,E 4.7-50 M SME	C782	87-010-405-080		CAP,E 10-50 M SME
C418	87-010-404-080		CAP,E 4.7-50 M SME	C783	87-015-819-080		C-CAP,0.01-50 K B
C421	87-010-401-080		CAP,E 1-50 M SME	C784	87-010-197-080		C-CAP,S 0.01-25 K B
C422	87-010-401-080		CAP,E 1-50 M SME	C785	87-010-400-080		CAP,E 0.47-50 M SME
C503	87-012-154-080		C-CAP,S 150P-50 J CH GRM<HE>	C786	87-010-400-080		CAP,E 0.47-50 M SME
C504	87-012-154-080		C-CAP,S 150P-50 J CH GRM<HE>	C787	87-010-184-080		C-CAP,S 3300P-50 K B
C505	87-012-145-080		C-CAP,S 270P-50 J CH<HE>	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C506	87-012-145-080		C-CAP,S 270P-50 J CH<HE>	C789	87-010-179-080		C-CAP,S 1200P-50 K B
C507	87-010-183-080		C-CAP,S 2700P-50 K B<HE>	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C509	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HE>	C791	87-010-405-080		CAP,E 10-50 M SME
C510	87-010-177-080		C-CAP,S 820P-50 J SL<HE>	C793	87-010-178-080		C-CAP,S 1000P-50 K B
C511	87-010-177-080		C-CAP,S 820P-50 J SL<HE>	C794	87-010-406-080		CAP,E 22-50 M SME
C512	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HE>	C795	87-010-596-080		C-CAP,S 0.047-16 K R
C513	87-010-374-080		CAP,E 47-10 M SME<HE>	C796	87-010-403-080		CAP,E 3.3-50 M SME
C514	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HE>	C797	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C515	87-010-263-080		CAP,E 100-10 SME<HE>	C797	87-010-182-080		C-CAP,S 2200P-50 K B<LH>
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<LH>	C798	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C517	87-010-183-080		C-CAP,S 2700P-50 K B<HE>	C798	87-010-182-080		C-CAP,S 2200P-50 K B<LH>
C527	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HE>	C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C605	87-010-180-080		C-CAP,S 1500P-50 K B	C812	87-010-197-080		C-CAP,S 0.01-25 K B
C606	87-010-180-080		C-CAP,S 1500P-50 K B	C813	87-010-197-080		C-CAP,S 0.01-25 K B
C611	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C814	87-010-197-080		C-CAP,S 0.01-25 K B
C613	87-010-404-080		CAP,E 4.7-50 M SME	C815	87-010-197-080		C-CAP,S 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C816	87-010-197-080		C-CAP,S 0.01-25 K B	C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C819	87-010-197-080		C-CAP,S 0.01-25 K B	C115	87-010-178-080		C-CAP,S 1000P-50 K B
C820	87-010-408-080		CAP,E 47-50 SME	C116	87-010-494-040		CAP,E 1-50 5L SRE
C821	87-010-197-080		C-CAP,S 0.01-25 K B	C117	87-010-263-040		CAP,E 100-10 M SME
C822	87-010-197-080		C-CAP,S 0.01-25 K B	C118	87-010-194-080		C-CAP,S 0.047-25 Z F
C823	87-010-197-080		C-CAP,S 0.01-25 K B	C119	87-010-408-040		CAP,E 47-50 M SME
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C120	87-010-404-040		CAP,E 4.7-50 SME
C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C121	87-010-404-040		CAP,E 4.7-50 SME
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C122	87-010-194-080		C-CAP,S 0.047-25 Z F
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C123	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C961	87-010-152-080		C-CAP,S 8P-50 D CH	C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
CF801	87-008-261-010		FLTR,CFSFE10.7MA5	C125	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
CF802	87-008-261-010		FLTR,CFSFE10.7MA5	C126	87-010-312-080		C-CAP,S 15P-50 J CH
CON351	83-NEG-608-010		CONN ASSY,8P-RPB	C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
FFB801	A8-7ZA-290-030		7ZA-2 FEUNM	C201	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J252	87-A60-024-010		JACK,DIA6.3 BLK ST W/SW KM	C281	87-010-198-080		C-CAP,S 0.022-25 K B
J253	87-099-474-010		JACK,PIN 3P BLK W/SW	C282	87-010-198-080		C-CAP,S 0.022-25 K B
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)	C381	87-012-158-080		C-CAP,S 390P-50 J CH GRM
J601	87-A60-330-010		JACK,PIN 6P YKC21-3174	C382	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C383	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L201	87-003-383-010		COIL,1UH K	C384	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L202	87-003-383-010		COIL,1UH K	C385	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C387	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L351	87-007-342-010		COIL,OSC 85KHZ BIAS	C403	87-010-956-080		C-CAP,S 0.068-25 K B
L644	83-XM1-617-080		C-COIL,BK 2125 HM601	C404	87-010-956-080		C-CAP,S 0.068-25 K B
L770	87-005-847-080		COIL,2.2UH K CECS	C405	87-010-400-040		CAP,E 0.47-50 SME
L771	87-A50-165-010		COIL,FM DET-N(TOK)	C406	87-010-400-040		CAP,E 0.47-50 SME
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)	C407	87-010-183-080		C-CAP,S 2700P-50 K B
L791	87-003-293-010		COIL, TRAP MPX<LH>	C408	87-010-183-080		C-CAP,S 2700P-50 K B
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<HE>	C409	87-A10-201-080		C-CAP,S 0.33-16 K B
L792	87-003-293-010		COIL, TRAP MPX<LH>	C410	87-A10-201-080		C-CAP,S 0.33-16 K B
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<HE>	C411	87-010-198-080		C-CAP,S 0.022-25 K B
L832	87-005-847-080		COIL,2.2UH K CECS	C412	87-010-198-080		C-CAP,S 0.022-25 K B
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)	C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C414	87-010-374-040		CAP,E 47-10 SME
PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C415	87-010-374-040		CAP,E 47-10 SME
R229	87-022-184-080		RES,M/F 0.33-1W J	C416	87-016-081-080		C-CAP,S 0.1-16 K R
R230	87-022-184-080		RES,M/F 0.33-1W J	C417	87-016-081-080		C-CAP,S 0.1-16 K R
R231	87-022-184-080		RES,M/F 0.33-1W J	C418	87-010-405-040		CAP,E 10-50 M SME
R232	87-022-184-080		RES,M/F 0.33-1W J	C501	87-010-319-080		C-CAP,S 56P-50 J CH
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5	C502	87-010-319-080		C-CAP,S 56P-50 J CH
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L	C503	87-016-460-080		C-CAP,S 0.22-16 K B
SFR301	87-024-435-080		SFR,33K H RH063MC	C504	87-010-197-080		C-CAP,S 0.01-25 K B
SFR302	87-024-435-080		SFR,33K H RH063MC	C505	87-010-180-080		C-CAP,S 1500P-50 K B
SFR303	87-024-435-080		SFR,33K H RH063MC	C506	87-010-590-080		C-CAP,S 0.015-16 K R
SFR304	87-024-435-080		SFR,33K H RH063MC	C507	87-010-590-080		C-CAP,S 0.015-16 K R
SFR305	87-024-436-080		SFR,47K H RH063MC	C508	87-010-197-080		C-CAP,S 0.01-25 K B
SFR306	87-024-436-080		SFR,47K H RH063MC	C509	87-010-181-080		C-CAP,S 1800P-50 K B
SFR351	87-024-436-080		SFR,47K H RH063MC	C510	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
SFR352	87-024-436-080		SFR,47K H RH063MC	C512	87-010-408-040		CAP,E 47-50 M SME
TH201	87-A90-221-080		C-THMS,100K	C513	87-010-401-040		CAP,E 1-50 M SME
TH202	87-A90-221-080		C-THMS,100K	C514	87-010-401-040		CAP,E 1-50 M SME
W5	85-NF5-617-010		CABLE,FFC 6P-1.25	C515	87-010-184-080		C-CAP,S 3300P-50 K B
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C516	87-010-184-080		C-CAP,S 3300P-50 K B
FRONT C.B				C518	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C101	87-010-198-080		C-CAP,S 0.022-25 K B	C519	87-010-263-040		CAP,E 100-10 M SME
C102	87-010-198-080		C-CAP,S 0.022-25 K B	C525	87-012-141-080		C-CAP,S 0.22-16 Z F
C103	87-010-197-080		C-CAP,S 0.01-25 K B	C601	87-010-405-040		CAP,E 10-50 M SME
C104	87-010-320-080		C-CAP,S 68P-50 J CH	C602	87-010-186-080		C-CAP,S 4700P-50 K B
C105	87-010-316-080		C-CAP,S 33P-50 J CH	C603	87-010-405-040		CAP,E 10-50 M SME
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM	C604	87-010-406-040		CAP,E 22-50 M SME
C108	87-010-405-040		CAP,E 10-50 M SME	C605	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C109	87-010-401-040		CAP,E 1-50 M SME	C607	87-010-321-080		C-CAP,S 82P-50 J CH
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C609	87-010-491-040		CAP,E 0.22-50 5L SRE
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C611	87-010-177-080		C-CAP,S 820P-50 J SL
C113	87-A10-189-040		CAP,E 220-10 M	C612	87-010-176-080		C-CAP,S 680P-50 J SL
				C614	87-010-248-040		CAP,E 220-10 M SME
				C701	87-010-555-040		CAP,E 100-10 5L SRE

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C702	87-010-112-040		CAP,E 100-16 SME	LED241	87-002-787-080		LED,SEL6215S RED
C705	87-016-081-080		C-CAP,S 0.1-16 K R	LED242	87-002-787-080		LED,SEL6215S RED
C706	87-010-956-080		C-CAP,S 0.068-25 K B	LED243	87-002-787-080		LED,SEL6215S RED
C707	87-016-081-080		C-CAP,S 0.1-16 K R	LED244	87-002-787-080		LED,SEL6215S RED
C708	87-010-956-080		C-CAP,S 0.068-25 K B	R301	87-022-355-080		C-RES,S 10K-1/10W F
C709	87-016-369-080		C-CAP,S 0.033-25 K B	R321	87-022-355-080		C-RES,S 10K-1/10W F
C710	87-016-081-080		C-CAP,S 0.1-16 K R	R341	87-022-355-080		C-RES,S 10K-1/10W F
C711	87-010-220-080		C-CAP,S 0.018-25 K B	S301	87-A90-095-080		SW,TACT EVQ11G04M
C712	87-010-992-080		C-CAP,S 0.047-25 K B MK212	S302	87-A90-095-080		SW,TACT EVQ11G04M
C713	87-010-189-080		C-CAP,S 8200P-50 K B	S303	87-A90-095-080		SW,TACT EVQ11G04M
C714	87-010-198-080		C-CAP,S 0.022-25 K B	S304	87-A90-095-080		SW,TACT EVQ11G04M
C715	87-010-185-080		C-CAP,S 3900P-50 K B	S305	87-A90-095-080		SW,TACT EVQ11G04M
C716	87-010-197-080		C-CAP,S 0.01-25 K B	S306	87-A90-095-080		SW,TACT EVQ11G04M
C717	87-010-182-080		C-CAP,S 2200P-50 K B	S307	87-A90-095-080		SW,TACT EVQ11G04M
C718	87-010-186-080		C-CAP,S 4700P-50 K B	S308	87-A90-095-080		SW,TACT EVQ11G04M
C719	87-010-178-080		C-CAP,S 1000P-50 K B	S309	87-A90-095-080		SW,TACT EVQ11G04M
C720	87-010-183-080		C-CAP,S 2700P-50 K B	S321	87-A90-095-080		SW,TACT EVQ11G04M
C721	87-010-405-040		CAP,E 10-50 M SME	S322	87-A90-095-080		SW,TACT EVQ11G04M
C722	87-010-405-040		CAP,E 10-50 M SME	S323	87-A90-095-080		SW,TACT EVQ11G04M
C723	87-010-378-040		CAP,E 10-16 M SME	S324	87-A90-095-080		SW,TACT EVQ11G04M
C724	87-016-369-080		C-CAP,S 0.033-25 K B	S325	87-A90-095-080		SW,TACT EVQ11G04M
C725	87-016-081-080		C-CAP,S 0.1-16 K R	S326	87-A90-095-080		SW,TACT EVQ11G04M
C726	87-010-220-080		C-CAP,S 0.018-25 K B<HE>	S327	87-A90-095-080		SW,TACT EVQ11G04M
C726	87-010-220-080		C-CAP,S 0.018-25 K B	S328	87-A90-095-080		SW,TACT EVQ11G04M
C727	87-010-992-080		C-CAP,S 0.047-25 K B MK212	S329	87-A90-095-080		SW,TACT EVQ11G04M
C728	87-010-189-080		C-CAP,S 8200P-50 K B	S330	87-A90-095-080		SW,TACT EVQ11G04M
C729	87-010-198-080		C-CAP,S 0.022-25 K B	S331	87-A90-095-080		SW,TACT EVQ11G04M
C730	87-010-185-080		C-CAP,S 3900P-50 K B	S332	87-A90-095-080		SW,TACT EVQ11G04M
C731	87-010-197-080		C-CAP,S 0.01-25 K B	S333	87-A90-095-080		SW,TACT EVQ11G04M
C732	87-010-182-080		C-CAP,S 2200P-50 K B	S334	87-A90-095-080		SW,TACT EVQ11G04M
C733	87-010-186-080		C-CAP,S 4700P-50 K B	S335	87-A90-095-080		SW,TACT EVQ11G04M
C734	87-010-178-080		C-CAP,S 1000P-50 K B	S336	87-A90-095-080		SW,TACT EVQ11G04M
C735	87-010-183-080		C-CAP,S 2700P-50 K B	S341	87-A90-095-080		SW,TACT EVQ11G04M
C736	87-010-992-080		C-CAP,S 0.047-25 K B MK212	S342	87-A90-095-080		SW,TACT EVQ11G04M
C736	87-010-992-080		C-CAP,S 0.047-25 K B MK212<HE>	S344	87-A90-095-080		SW,TACT EVQ11G04M<HE>
C737	87-010-992-080		C-CAP,S 0.047-25 K B MK212	S346	87-A90-095-080		SW,TACT EVQ11G04M<HE>
C737	87-010-992-080		C-CAP,S 0.047-25 K B MK212<HE>	S349	87-A90-095-080		SW,TACT EVQ11G04M
FB601	87-008-372-080		FLTR,EMIBL01 RN1	S350	87-A90-095-080		SW,TACT EVQ11G04M
FL102	87-MA3-604-010		FL,BJ540GK 7MA-3	S351	87-A90-095-080		SW,TACT EVQ11G04M
FR146	87-029-082-090		RES,FUSE 100-1/4W J	S352	87-A90-095-080		SW,TACT EVQ11G04M
L501	87-005-448-080		COIL,220UH K FLR50	S353	87-A90-095-080		SW,TACT EVQ11G04M
LED201	87-017-785-080		LED,SEL4214S RED	S354	87-A90-095-080		SW,TACT EVQ11G04M
LED202	87-017-785-080		LED,SEL4214S RED	S355	87-A90-095-080		SW,TACT EVQ11G04M
LED203	87-017-785-080		LED,SEL4214S RED	S356	87-A90-095-080		SW,TACT EVQ11G04M
LED204	87-017-785-080		LED,SEL4214S RED	SW101	87-A90-535-010		SW,RTRY EC16B24304W0-20 NON
LED205	87-017-785-080		LED,SEL4214S RED	W104	88-914-251-110		FF-CABLE, 14P 1.25 250MM
LED206	87-017-368-080		LED,SEL4514C TP5 PGRN	W105	88-908-231-110		FF-CABLE, 8P 1.25
LED207	87-017-368-080		LED,SEL4514C TP5 PGRN	W501	85-MA2-602-010		CABLE FFC,15P-1.25
LED208	87-017-368-080		LED,SEL4514C TP5 PGRN	X201	87-A70-070-080		VIB,CER 5.76MHZ CRHF
LED209	87-017-368-080		LED,SEL4514C TP5 PGRN				
LED210	87-017-368-080		LED,SEL4514C TP5 PGRN	MIC 1 C.B			
LED211	87-017-368-080		LED,SEL4514C TP5 PGRN	J601	87-099-659-010		JACK,6.3 0
LED212	87-017-368-080		LED,SEL4514C TP5 PGRN				
LED213	87-017-368-080		LED,SEL4514C TP5 PGRN	MIC 2 C.B			
LED214	87-017-368-080		LED,SEL4514C TP5 PGRN	J602	87-099-659-010		JACK,6.3 0
LED215	87-017-368-080		LED,SEL4514C TP5 PGRN				
LED216	87-017-731-080		LED,SEL1510CM2 PGRN	RT C.B			
LED217	87-017-731-080		LED,SEL1510CM2 PGRN				
LED218	87-017-731-080		LED,SEL1510CM2 PGRN				
LED219	87-017-731-080		LED,SEL1510CM2 PGRN				
LED220	87-017-731-080		LED,SEL1510CM2 PGRN	SW281	87-A90-469-010		SW,RTRY EVQVB0F0324B
LED221	87-017-731-080		LED,SEL1510CM2 PGRN				
LED233	87-070-270-010		LED,SEL1510CM2-LF34 P-GRN	CD KEY C.B			
LED234	87-070-270-010		LED,SEL1510CM2-LF34 P-GRN				
LED235	87-070-270-010		LED,SEL1510CM2-LF34 P-GRN				
LED236	87-070-270-010		LED,SEL1510CM2-LF34 P-GRN	C371	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
LED237	87-070-300-010		LED,SEL1250SMLF34 RED	LED371	87-017-785-080		LED,SEL4214S RED
LED238	87-070-300-010		LED,SEL1250SMLF34 RED	LED372	87-017-785-080		LED,SEL4214S RED
LED239	87-017-785-080		LED,SEL4214S RED	LED373	87-017-785-080		LED,SEL4214S RED
LED240	87-017-785-080		LED,SEL4214S RED	LED374	87-017-785-080		LED,SEL4214S RED

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED375	87-017-785-080		LED,SEL4214S RED	DECK C.B			
S370	87-A90-095-080		SW,TACT EVQ11G04M	W001	82-ZM3-601-019		RBN,CORD,4P-75
S371	87-A90-095-080		SW,TACT EVQ11G04M	SFR1	87-024-581-019		SFR,3.3K DIA 6H
S372	87-A90-095-080		SW,TACT EVQ11G04M	SOL1	82-ZM1-626-310		SOL ASSY, 27K
S373	87-A90-095-080		SW,TACT EVQ11G04M	SOL2	82-ZM1-626-310		SOL ASSY, 27K
S374	87-A90-095-080		SW,TACT EVQ11G04M	SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
S375	87-A90-095-080		SW,TACT EVQ11G04M	SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
S376	87-A90-095-080		SW,TACT EVQ11G04M	SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
AC2 C.B				SW4	87-036-110-010		SW,MICRO SPPB62
△ PR1	87-026-682-080		PROTECTOR,10A 491SERIES 60V	SW5	87-036-110-010		SW,MICRO SPPB62
△ PR2	87-026-682-080		PROTECTOR,10A 491SERIES 60V	SW6	87-036-110-010		SW,MICRO SPPB62
△ PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V	SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
△ PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V	SW9	87-036-110-010		SW,MICRO SPPB62
W1	85-NF5-628-010		F-CABLE,7P-2.5	CON502	87-099-756-019		CONN, 15P 9604 S F
PT C.B				HEAD-1 C.B			
△ F101	87-035-458-010		FUSE,4A 250V T 218		85-ZM3-601-010		PWB,FLEX I
△ F102	87-035-458-010		FUSE,4A 250V T 218	HEAD-2 C.B			
△ FC1	87-033-147-010		FUSE CLAMP,MT-20		85-ZM3-601-010		PWB,FLEX I
△ FC2	87-033-147-010		FUSE CLAMP,MT-20				
△ FC3	87-033-147-010		FUSE CLAMP,MT-20				
△ FC4	87-033-147-010		FUSE CLAMP,MT-20				
△ PT101	87-MA3-606-010		PT,7MA-3 HE				
△ SW1	87-A90-165-010		SW,SL 1-2-3 SWS2301				
△ T1	87-A60-317-010		TERMINAL, 1P MSC				
△ T2	87-A60-317-010		TERMINAL, 1P MSC				

○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



A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

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



ECB

2SA1296GR
KTA1266GR
KTC3198GR



ECB

CSD1489B
CSB1058B



EBC

C2N5401



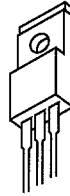
ECB

2SA933S



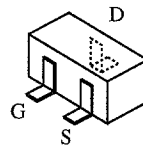
BCE

2SB1370
FN1016
FP1016

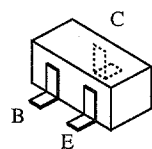


GDG

2SK2723



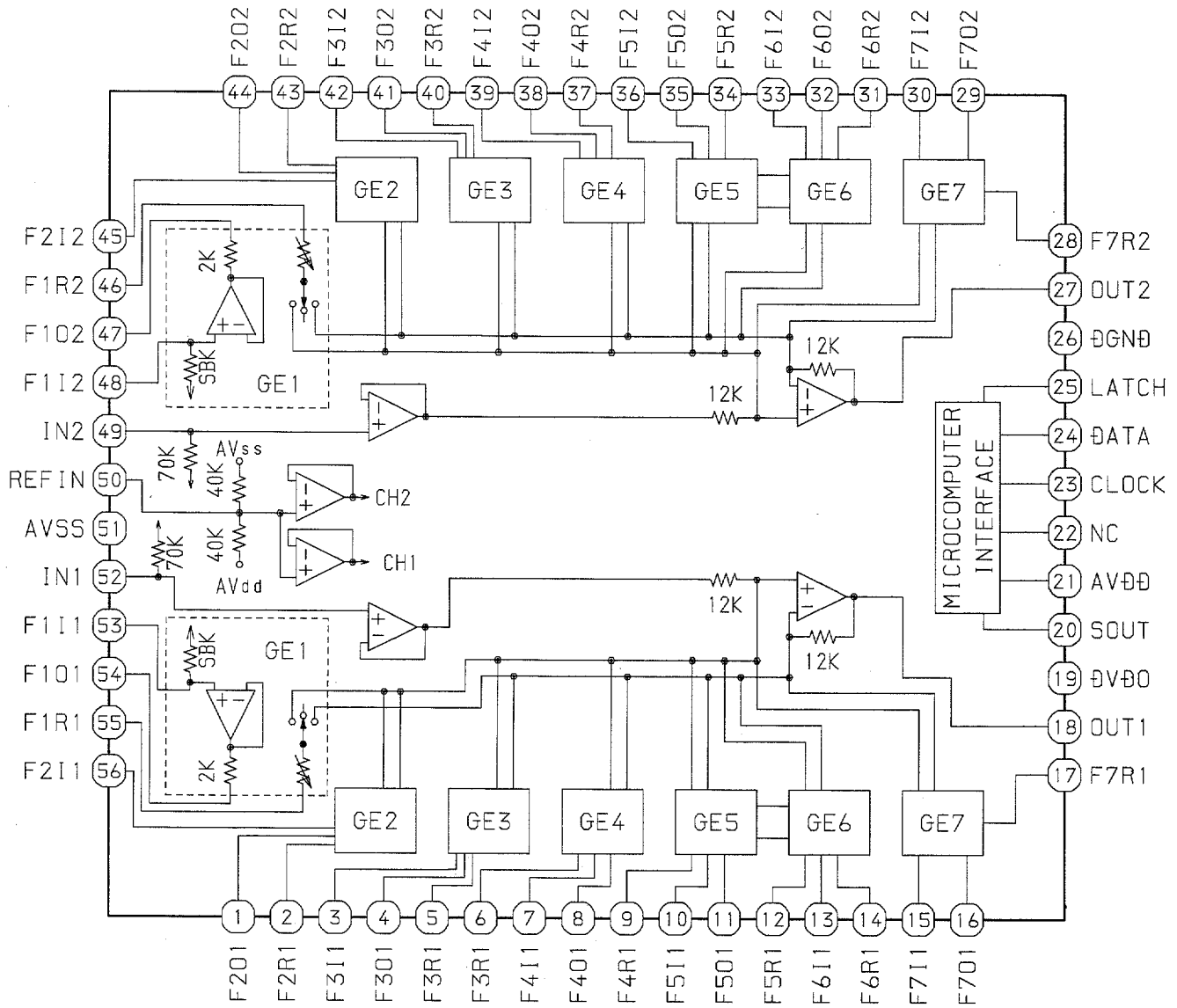
2SK2158



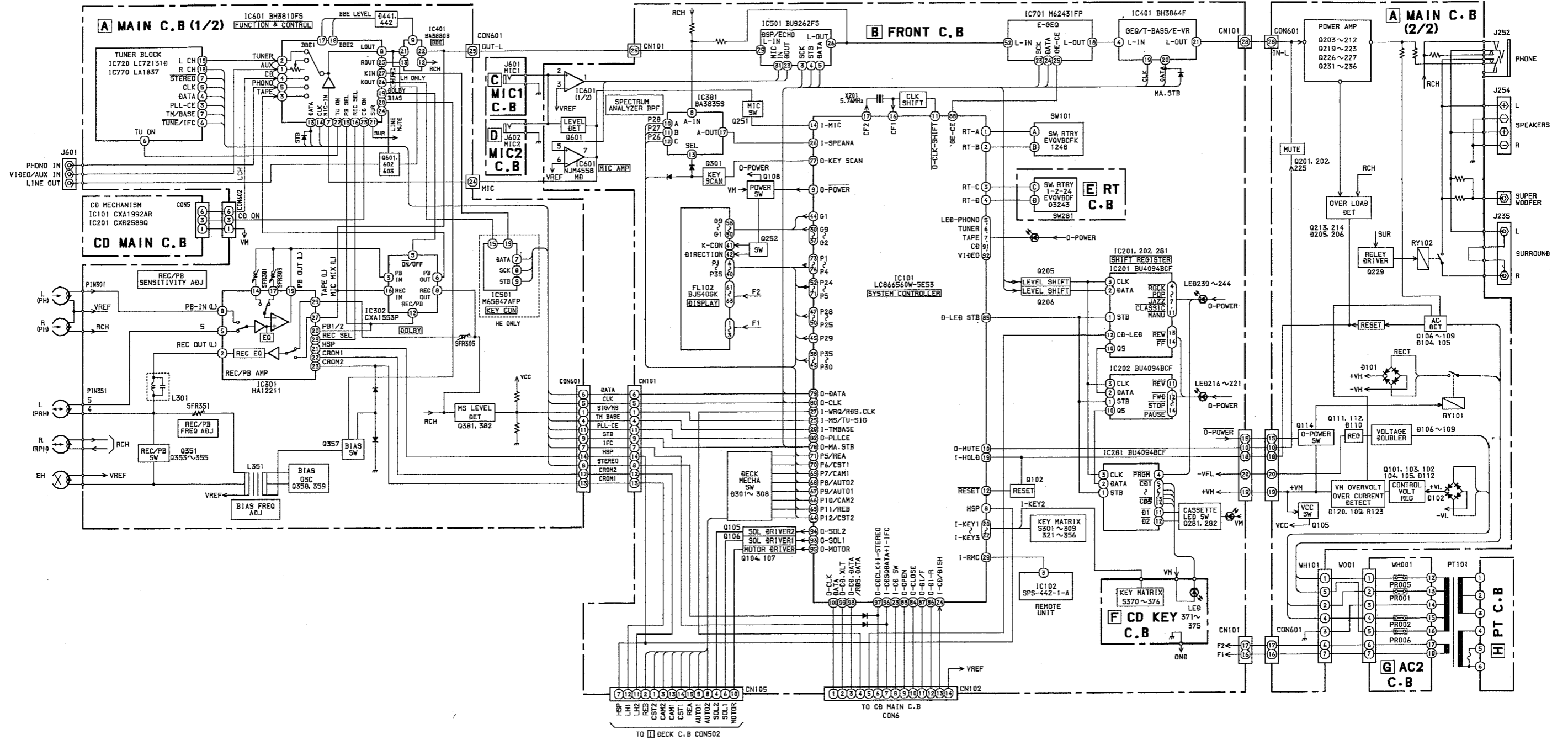
2SA1235F RN1410
2SC2714 RN2404
2SC3052F RT1P144C
CMBT5551 RT1N141C
CSA1362GR RT1N144C
CSD1306E RT1P141C

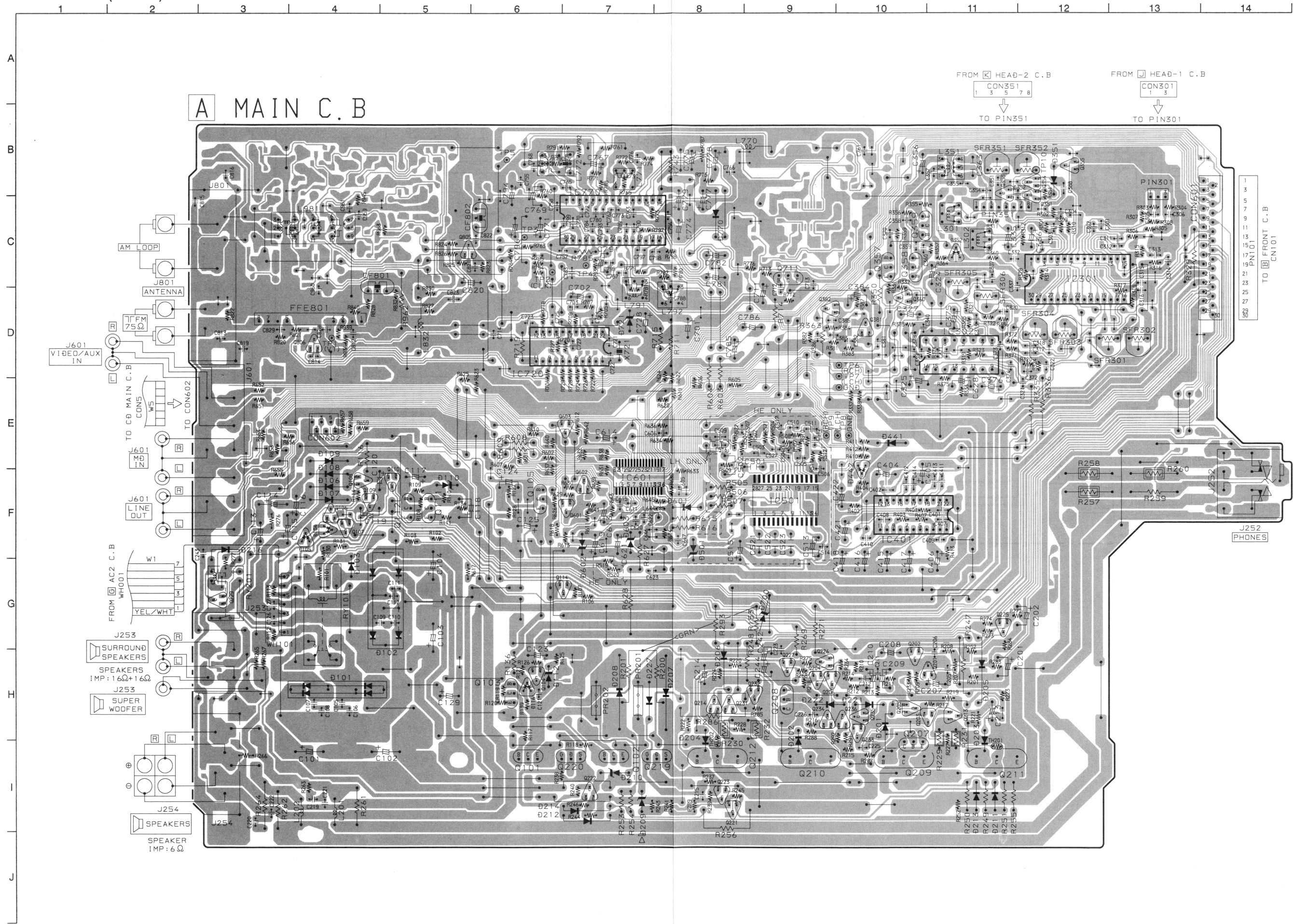
IC BLOCK DIAGRAM - 1

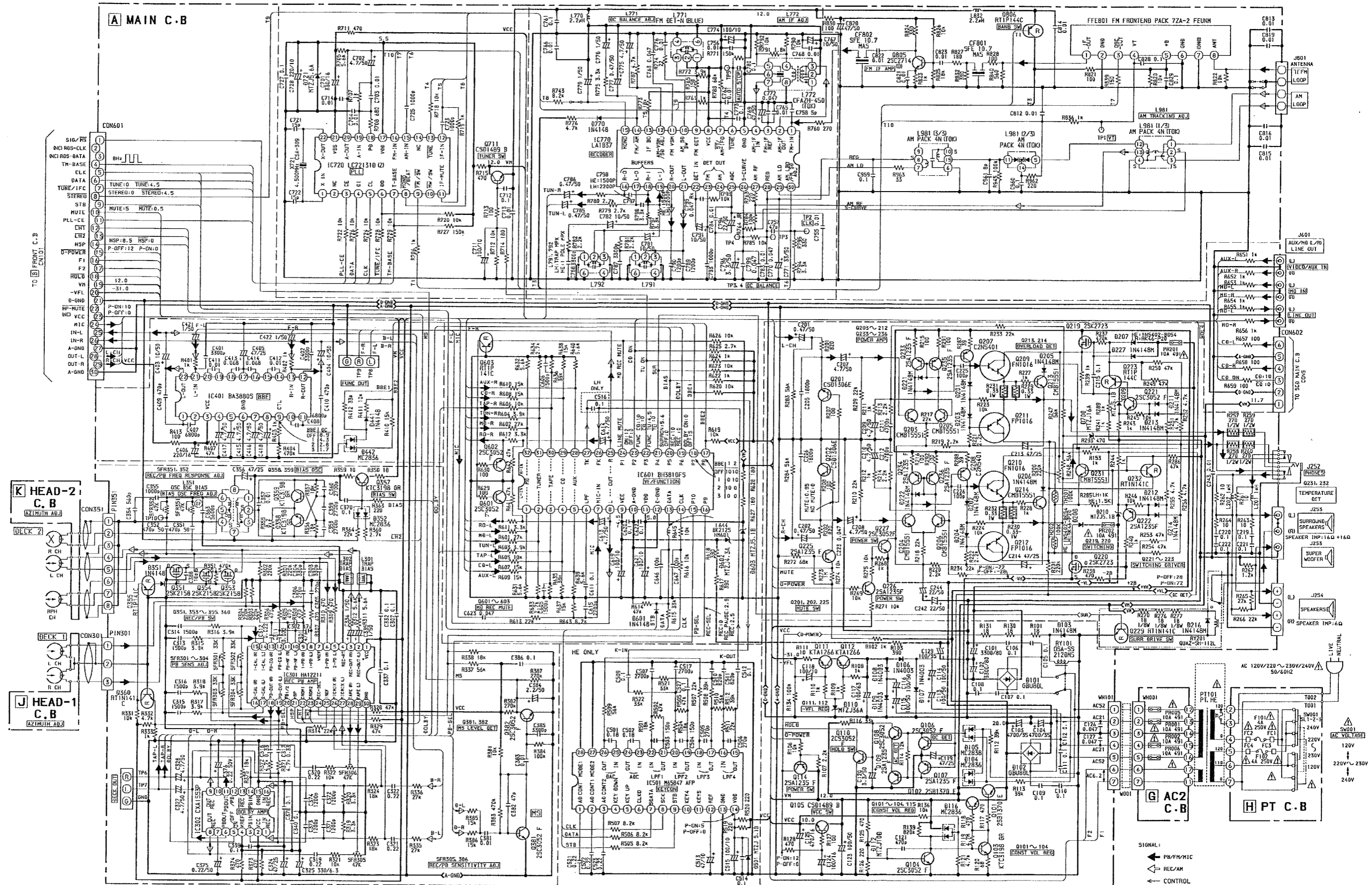
M62431FP

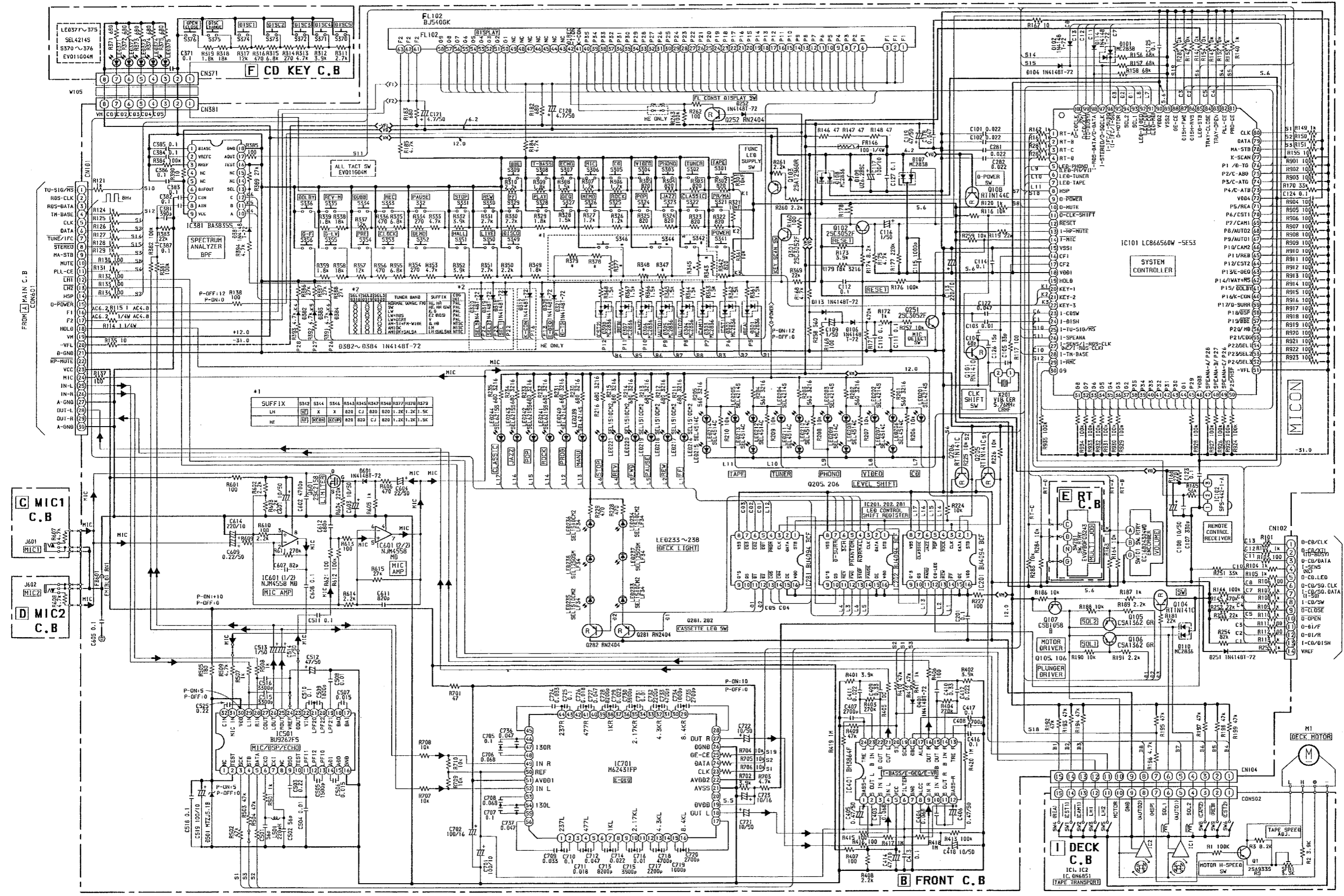


BLOCK DIAGRAM (MAIN / FRONT)



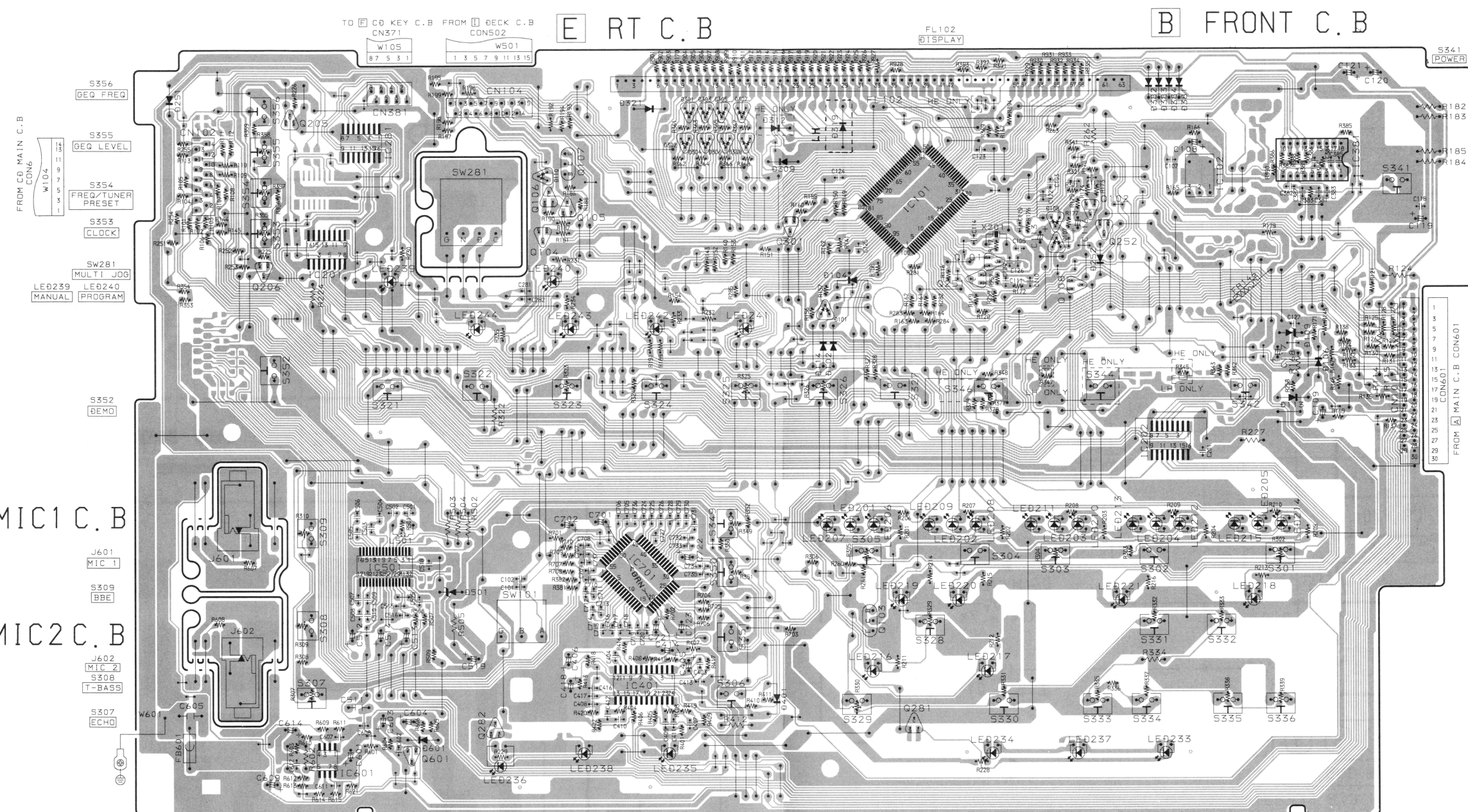






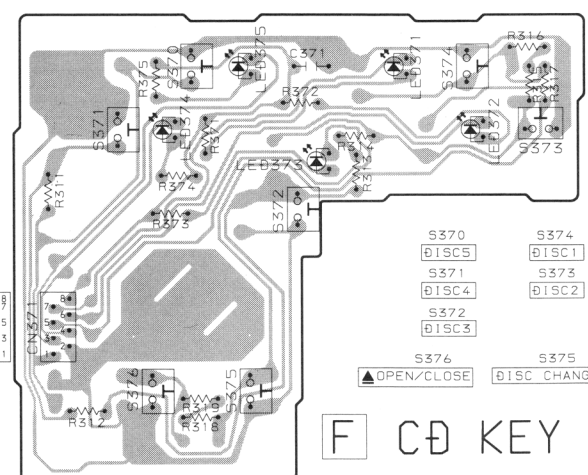
SUFFIX	5342	5344	5346	5348	5350	5352	5354	5356	5358	5360	5362	5364	5366	5368	5370
LH	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
HE	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

A
B
C
D
E
F
G
H
I
J

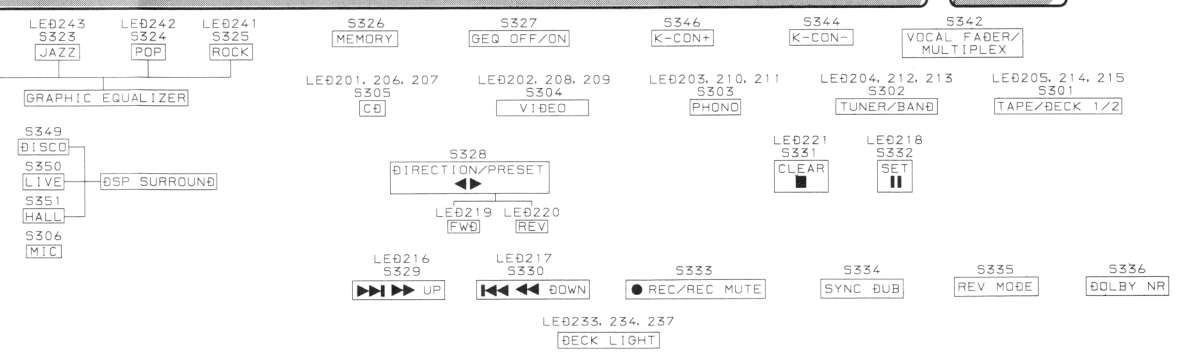


C MIC1 C.B

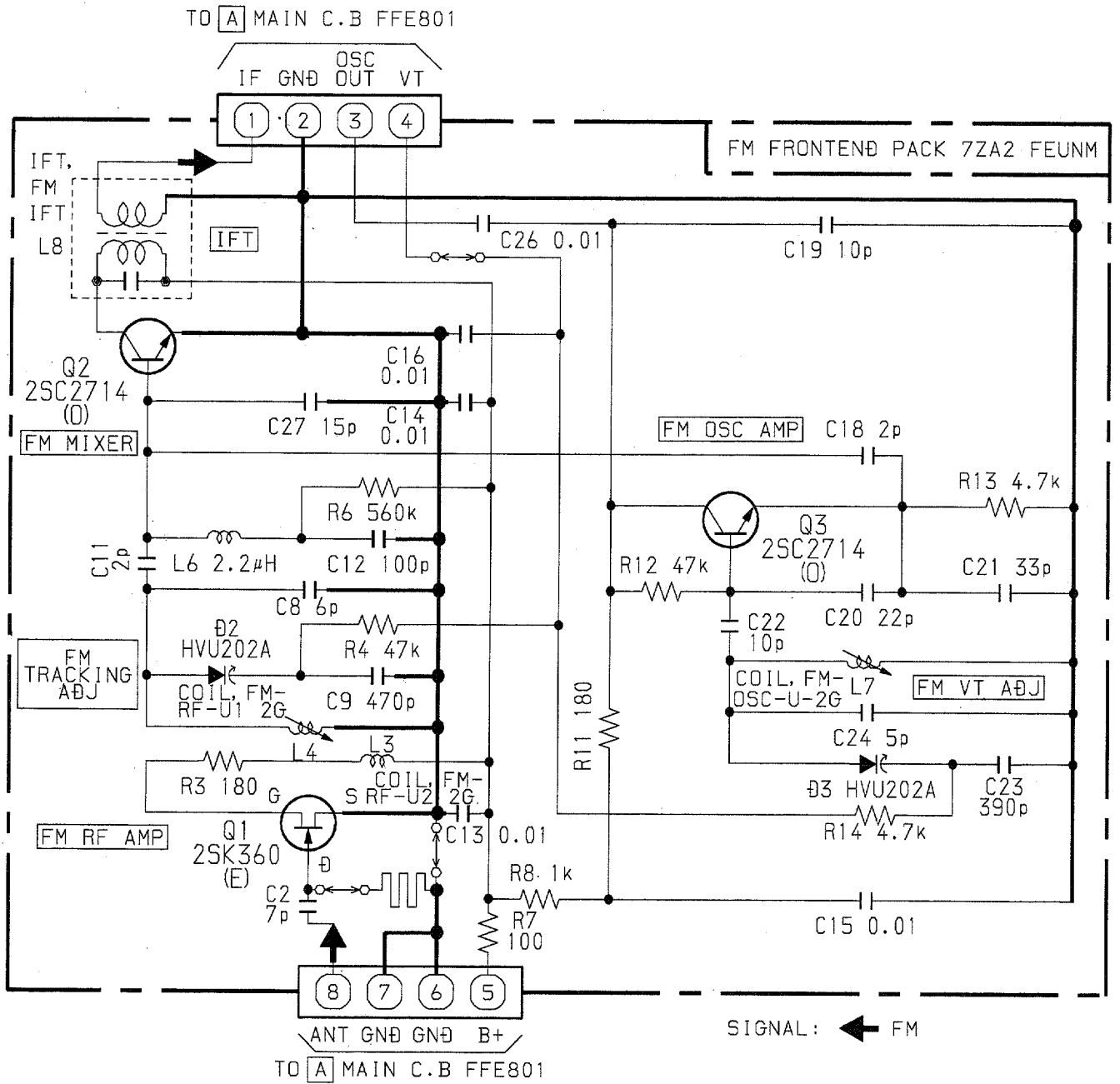
D MIC2 C.B

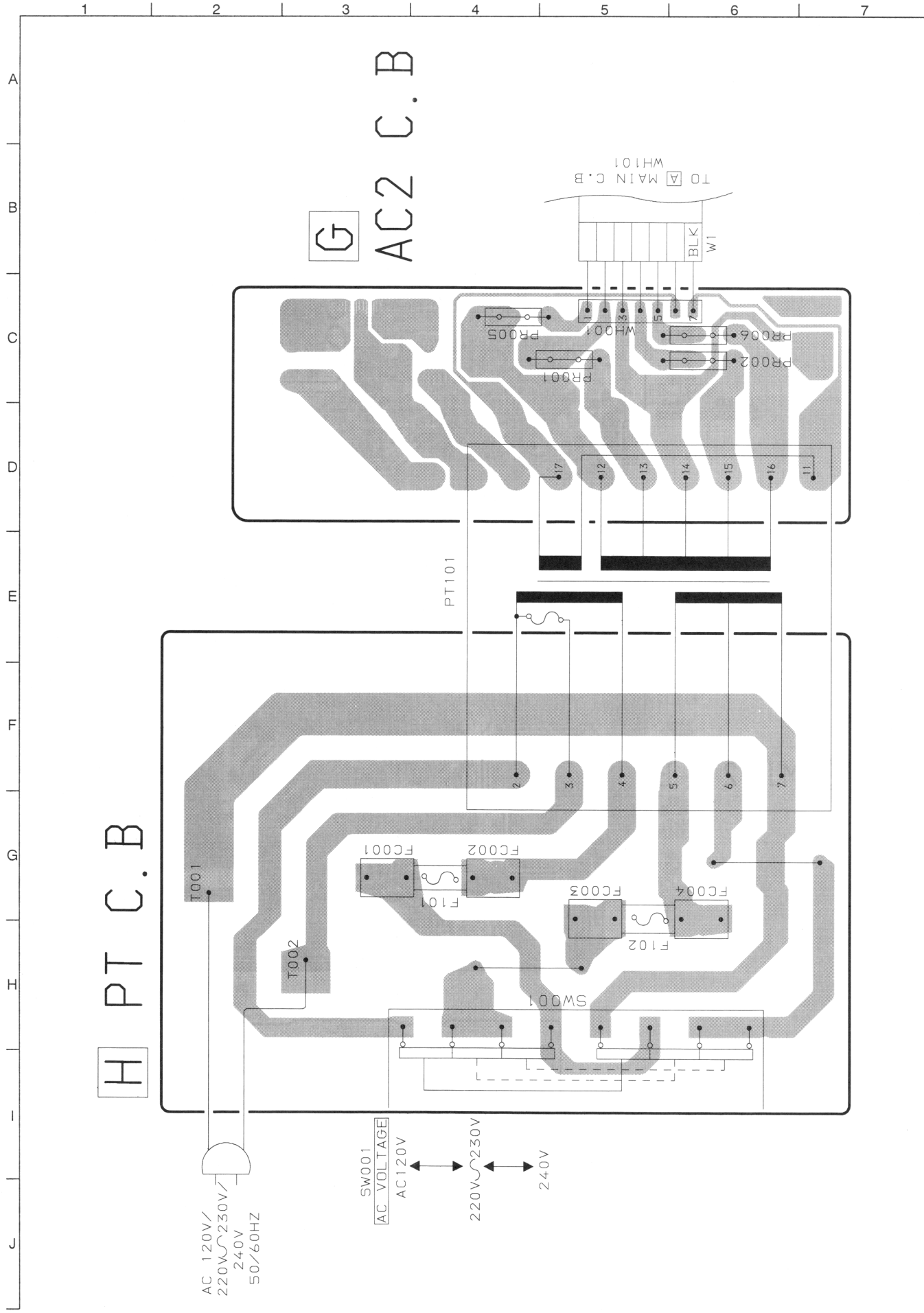


F CD KEY C.B

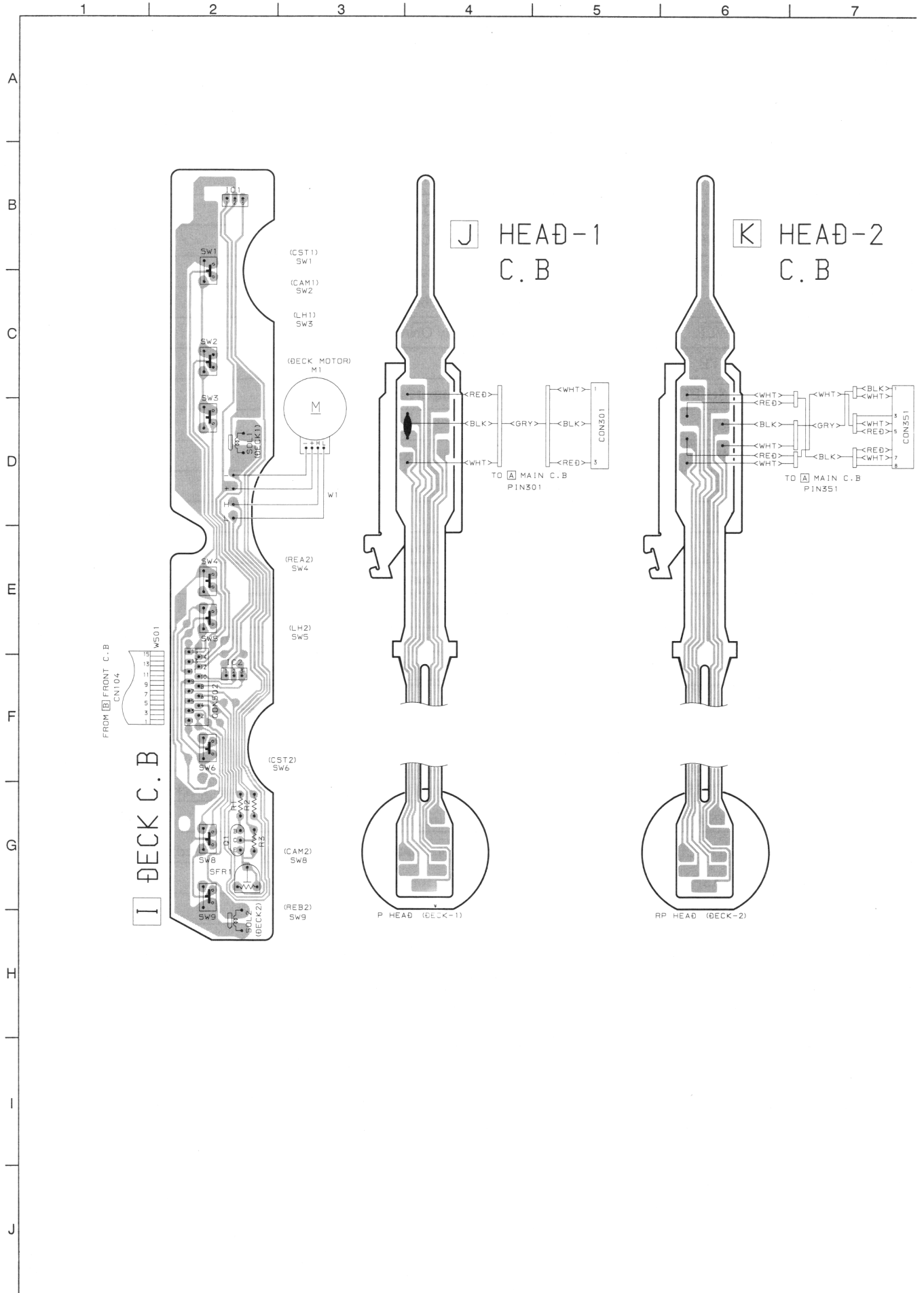


SCHEMATIC DIAGRAM - 3 (TUNER FRONT END)





WIRING - 4 (DECK)



IC DESCRIPTION

IC, LC866560W-5E53

Pin No.	Pin Name	I/O	Description					
1	RT-A	I	ROTARY-ENCORDER vol. in.					
2	RT-B	I	ROTARY-ENCORDER vol. in.					
3	RT-C	I	ROTARY-ENCORDER multi jog in.					
4	RT-D	I	ROTARY-ENCORDER multi jog in.					
5	LED-PHONO	O	Function LED PHONO control.					
6	LED-TUNER	O	Function LED TUNER control.					
7	LED-TAPE	O	Function LED TAPE control.					
8	HSP	O	DECK high-speed dubbing control.					
9	O-POWER	O	System power supply ON/OFF output.					
10	O-MUTE	O	System mute output.					
11	O-CLK-SHIFT	O	Micon clock shift output (active low).					
12	RESET	I	Reset input.					
13	I-HP-MUTE	I	"L" input PROLOGIC, DSP off. (Not used).					
14	I-MIC	I	Microphone input for auto vocal fader ON/OFF .					
15	VSS1	-	GND terminal.					
16,17	CF1, 2	-	5.76 MHz oscillator circuit.					
18	VDD1	-	Power supply input. Connect VDD2.					
19	HOLD	I	Power failure detected.					
			<table border="1"> <tr> <td>>6.9V</td> <td>P-OFF</td> <td>4.9V~3.49V</td> <td>Normal condition</td> </tr> <tr> <td>3.49V~1.41V</td> <td>P-OFF</td> <td><1.41V</td> <td>HOLD mode</td> </tr> </table>	>6.9V	P-OFF	4.9V~3.49V	Normal condition	3.49V~1.41V
>6.9V	P-OFF	4.9V~3.49V	Normal condition					
3.49V~1.41V	P-OFF	<1.41V	HOLD mode					
20~22	KEY1 - 3	I	Key input.					
23	I-CD/SW	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 SD detected input/Tape function: Deck music sensor signal input.					
26	I-SPEANA	I	A/D input for spectrum analyzer display.					
27	I-SENS/I-RDS-CLK	I	CD IC control data bus data input/RDS clock input (Not used).					
28	I-TM BASE	I	Reference clock input for timer watch.					
29	I-RMC	I	System remote control signal input (active low).					
30~37,44	G9~G1	O	FL grid output G9~G1.					
38~43,45	P35~P29	O	FL segment output P35~P29.					
46	VDD3	-	Power supply input. Connect VDD4.					
47	P28/SPEANA-A	O	FL segment output P28/spectrum analyzer band pass filter control A.					
48	P27/SPEANA-B	O	FL segment output P27/spectrum analyzer hand pass filter control B.					
49	P26/SPEANA-C	O	FL segment output P26/spectrum analyzer band pass filter control C.					
50	P25/HSP	O/I	FL segment output P25/HSP diode detect.					
51	-VFL	-	Power supply input for FL display.					
52	P24/SEL3	O/I	FL segment output P24 / tuner band select 3.					
53	P23/SEL2	O/I	FL segment output P23 / tuner band select 2.					
54	P22/SEL1	O/I	FL segment output P22 / tuner band select 1.					
55	P21/CDG	O/I	FL segment output P21/CDG diode detect.					
56	P20/MD	O/I	FL segment output P20/MD diode detect.					

Pin No.	Pin Name	I/O	Description
57	P19/ $\overline{\text{BBE}}$	O/I	FL segment output P19/ $\overline{\text{BBE}}$ diode detect.
58	P18/ $\overline{\text{DSP}}$	O/I	FL segment output P18/ $\overline{\text{DSP}}$ diode detect.
59	P17/D-SURR	O/I	FL segment output P17/D-SURR diode detect (Not used).
60	P16/K-CON	O/I	FL segment output P16/K-CON diode detect.
61	P15/ $\overline{\text{DOLBY}}$	O/I	FL segment output P15/ $\overline{\text{DOLBY-NR}}$ diode detect.
62	P14/1WAY+ $\overline{\text{MS}}$	O/I	FL segment output P14/1WAY+ $\overline{\text{MS}}$ diode detect.
63	P13/E-GEQ	O/I	FL segment output P13/E-GEQ diode detect.
64	P12/CST2	O/I	FL segment output P12/DECK2 cassette detect switch data input.
65	P11/REB	O/I	FL segment output P11/DECK2 side-B record OK switch data input.
66	P10/CAM2	O/I	FL segment output P10/DECK2 cam switch input.
67	P9/AUTO1	O/I	FL segment output P9/DECK1 auto stop signal input.
68	P8/AUTO2	O/I	FL segment output P8/DECK2 auto stop signal input.
69	P7/CAM1	O/I	FL segment output P7/DECK1 cam switch data input.
70	P6/CST1	O/I	FL segment output P6/DECK1 cassette detect switch data input.
71	P5/REA	O/I	FL segment output P5/DECK2 side-A record OK switch data input.
72	VDD4	-	Power supply input. Connect VDD3.
73	P4/C-ATB	O/I	FL segment output P4/CD auto adjust SW input.
74	P3/C-ATG	O/I	FL segment output P3/CD auto adjust SW input.
75	P2/C-ABG	O/I	FL segment output P2/CD auto adjust SW input.
76	P1/D-TG	O/I	FL segment output P1/CD auto adjust SW input.
77	KEY-SCAN	O	Switch scan timing output.
78	MA-STB	O	Main shift register data latch strobe output.
79	DATA	O	All serial IC data output.
80	CLK	O	All serial IC clock output.
81	PRO-CE	O	PRO-LOGIC data latch strobe output. (Not used).
82	PLLCE	O	PLL IC (LC72131D) chip enable output.
83	TRAY-OPEN	O	CD tray open data output.
84	TRAY-CLOSE	O	CD tray close data output.
85	LED-STB	O	Front shift register data latch strobe output.
86	DISH-RVS	O	CD turntable reverse rotation output.
87	DISH-FWD	O	CD turntable forward rotation output.
88	GE-CE	O	E-GEQ IC (M62431FP) chip enable.
89	VSS2	-	GND terminal.
90	VDD2	-	Power supply input. Connect VDD1.
91	LED-CD	O	Function LED CD control.
92	LED-VIDEO	O	Function LED video control.
93	SOL1	O	DECK1 solenoid output.
94	SOL2	O	DECK2 solenoid output.
95	O-MOTOR	O	DECK motor output.
96	IFC/ I-SUBQ	I	Tuner function: IF count serial data input. CD function: CD IC data input.

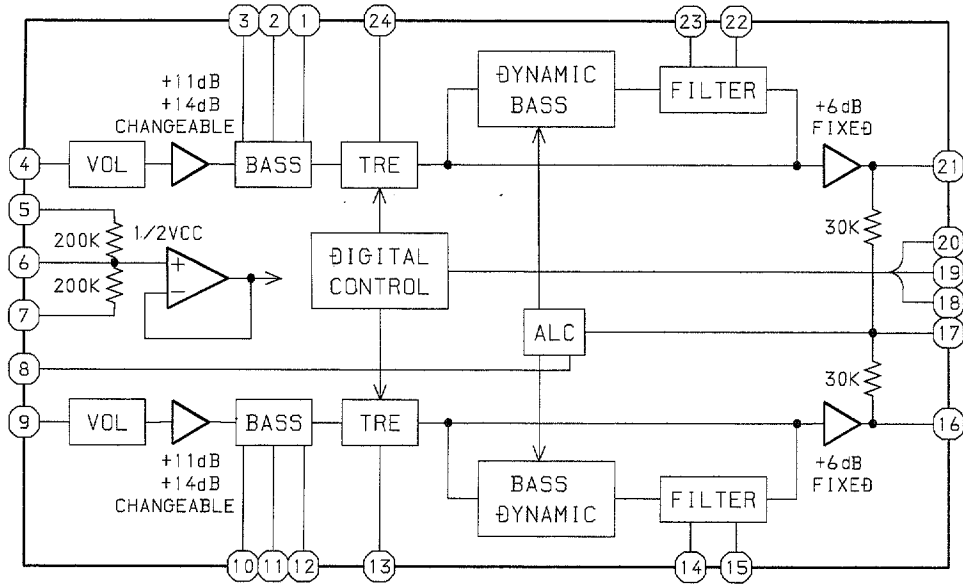
Pin No.	Pin Name	I/O	Description
97	O-SQ CLK/	O	CD function: CD IC control data bus clock output.
	I-STEREO	I	Tuner function: Tuner stereo detect input.
98	O-DATA/	O	CD function: CD IC control data bus data output.
	I-RDS-DATA	I	Tuner function: RDS data input.(Not used).
99	O-CD/XTL	O	CD IC control data latch output.
100	O-CD/CLK	O	CD IC control data transfer clock output.

IC, LC72131

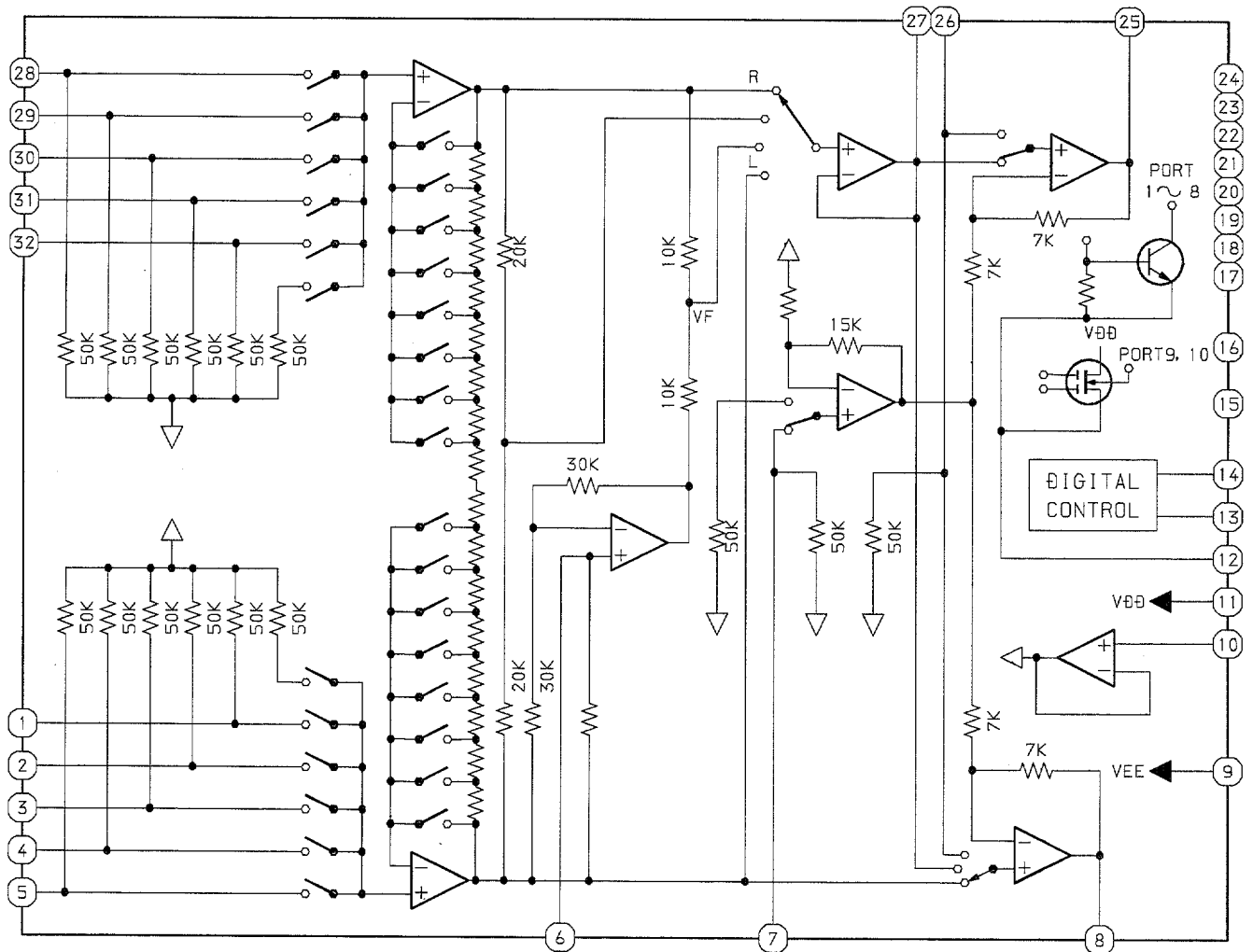
Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866560W-5E53) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866560W-5E53).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>L</td> <td>H</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	-	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	-	Ground.																								

IC BLOCK DIAGRAM - 2

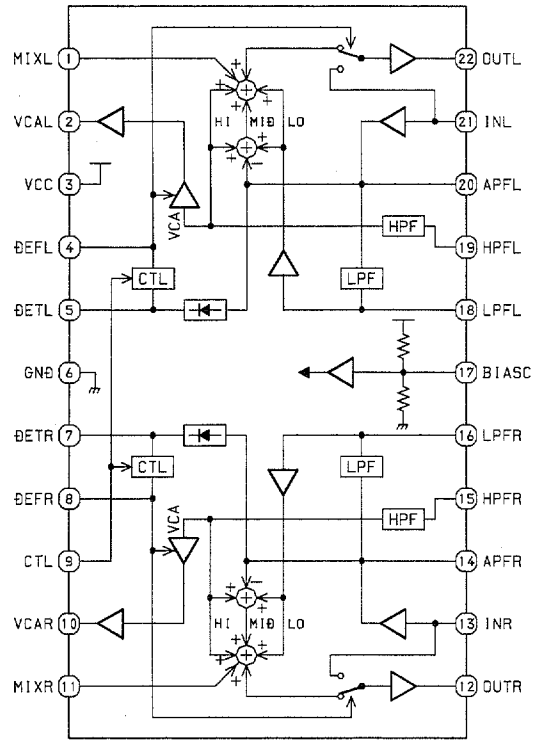
IC BH3864F



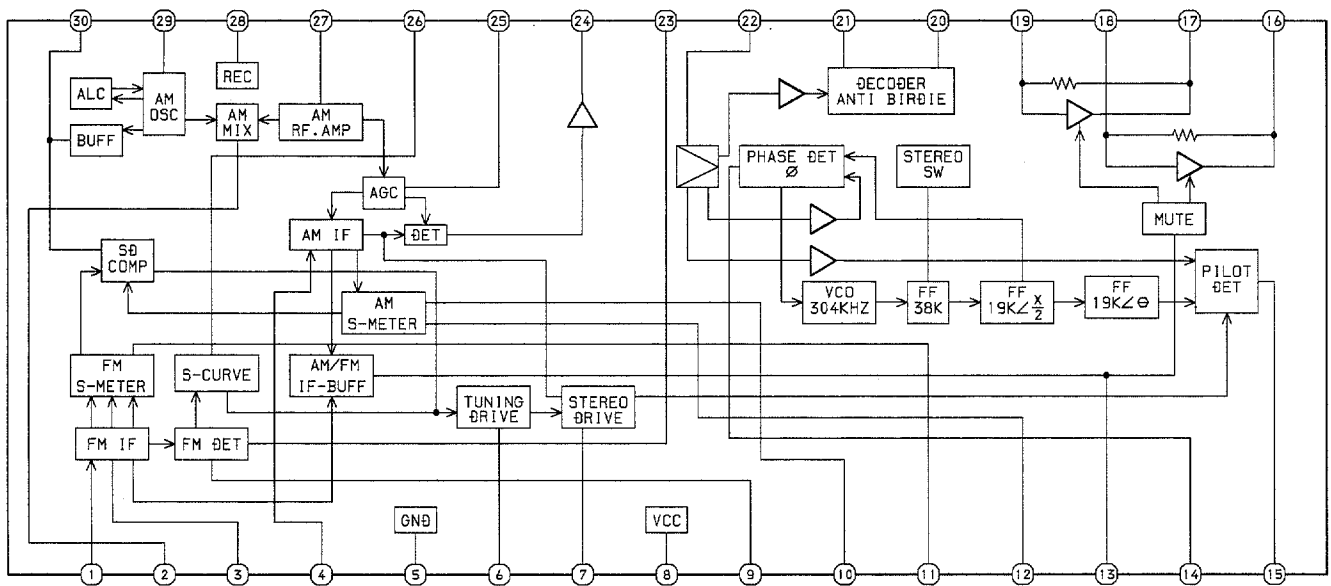
IC, BH3810FS



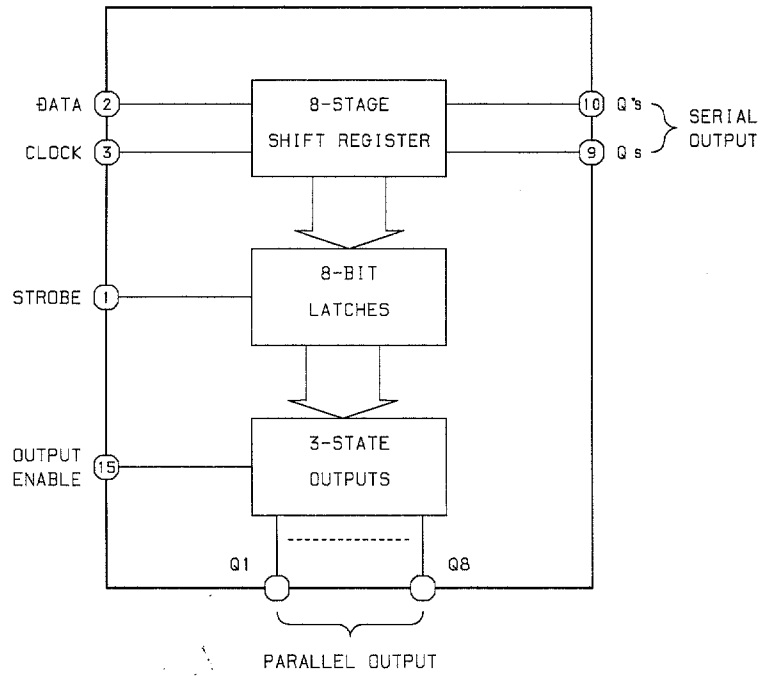
IC, BA3880S



IC, LA1837



IC, BU4094BCF



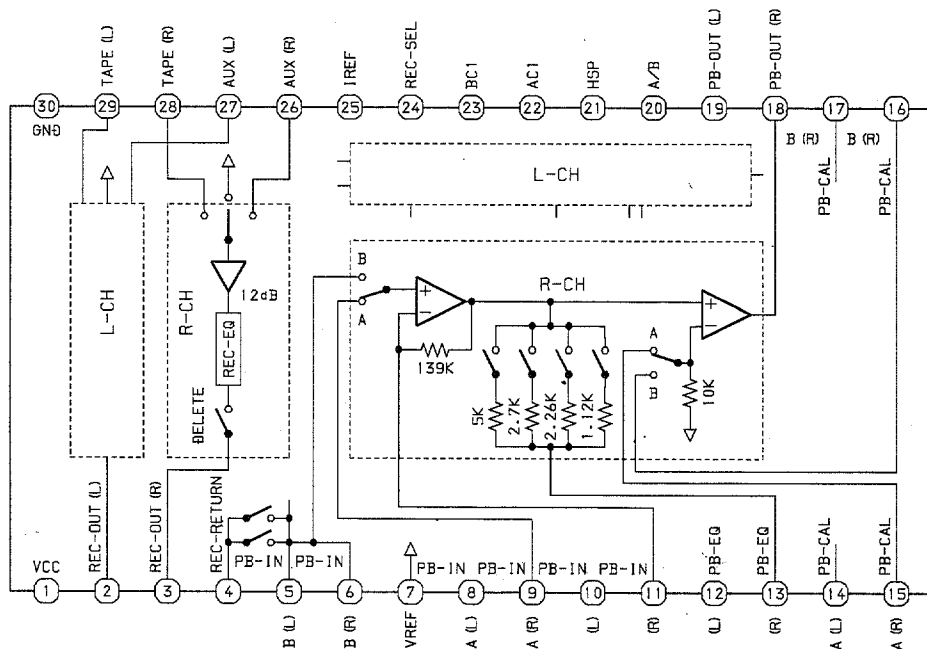
TRUTH TABLE

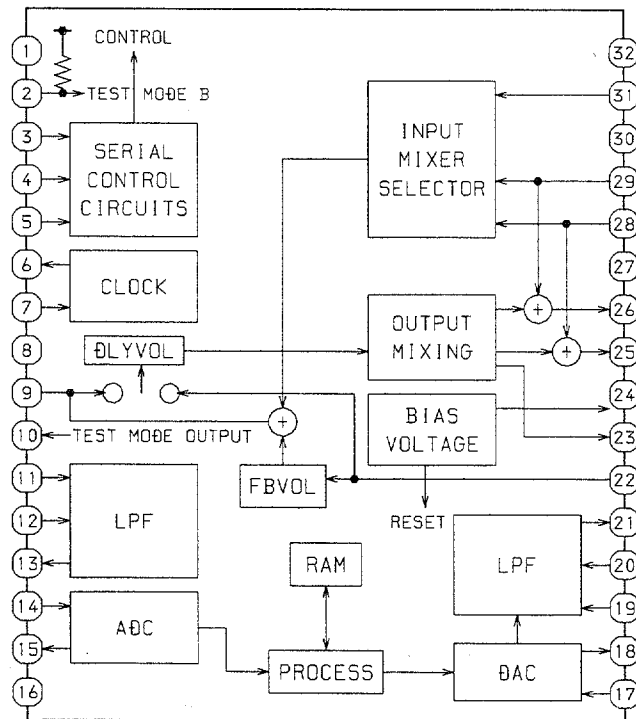
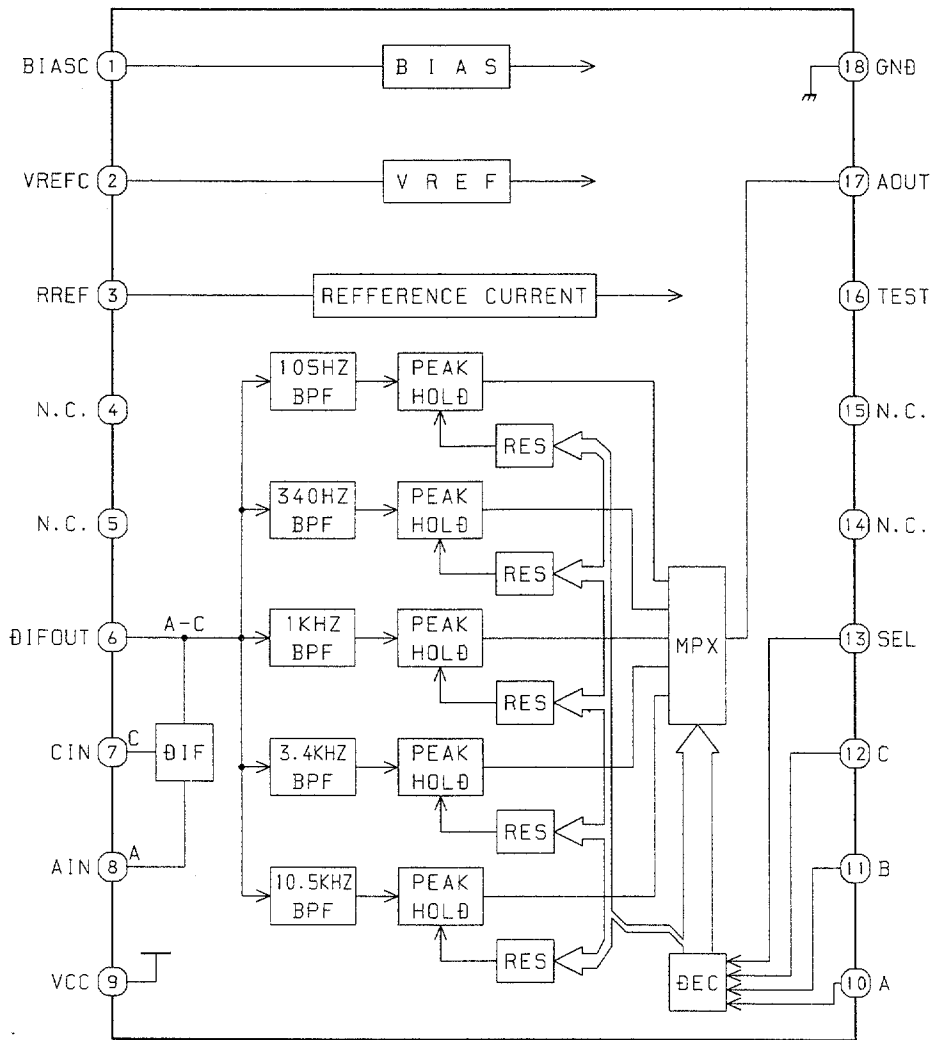
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance

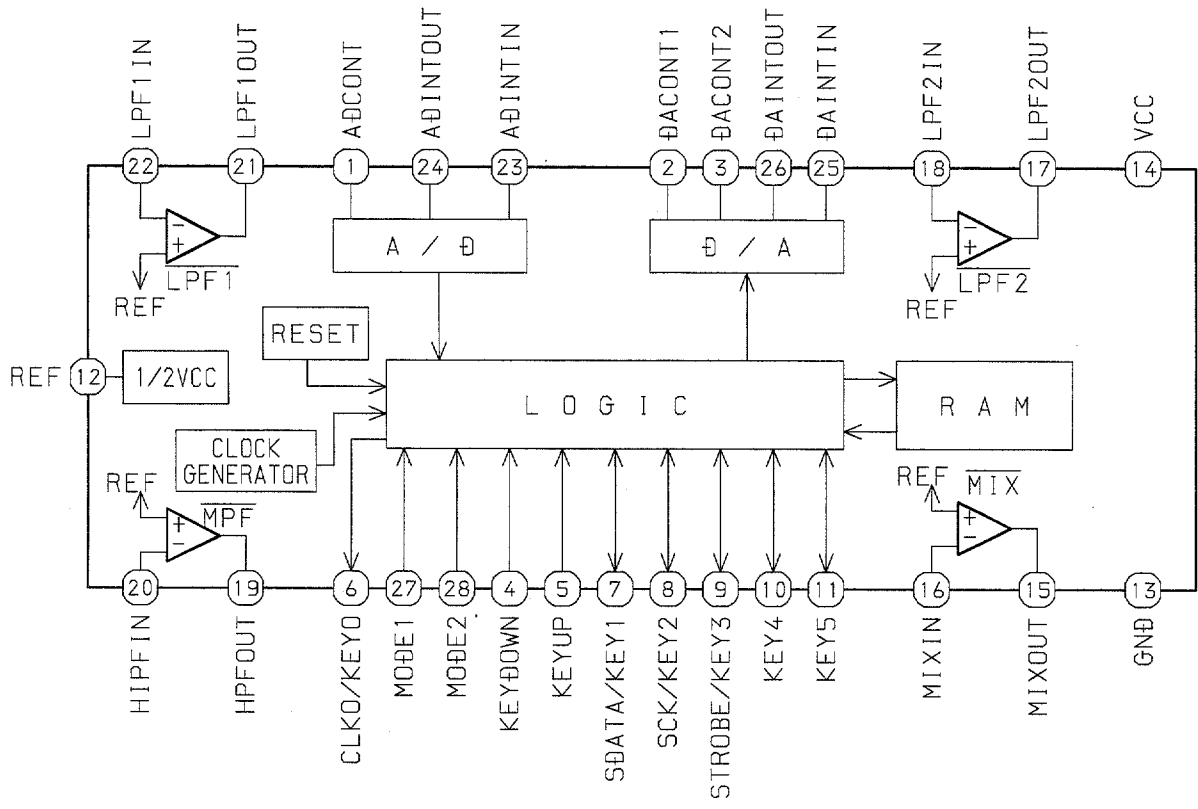
X=Don't Care

IC, HA1221NT

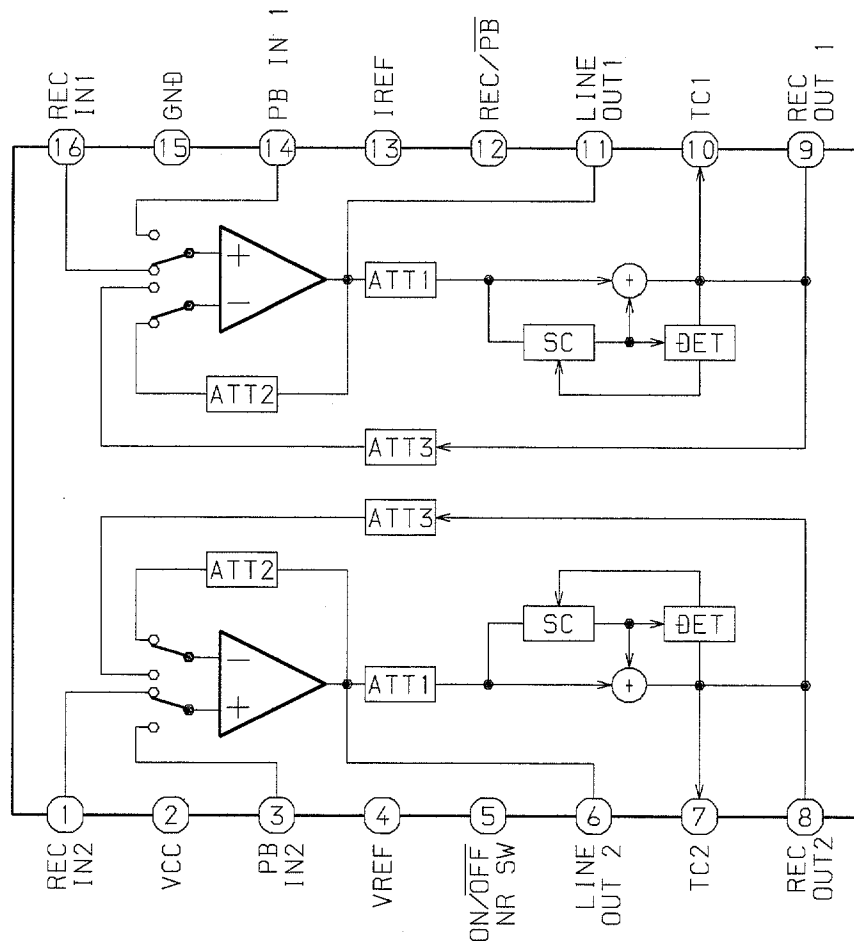




IC, M65847AFP



IC, CXA1553P

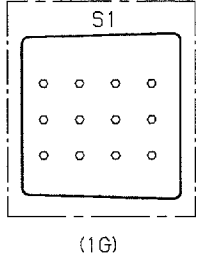
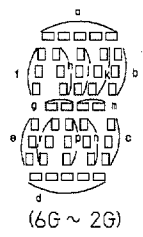
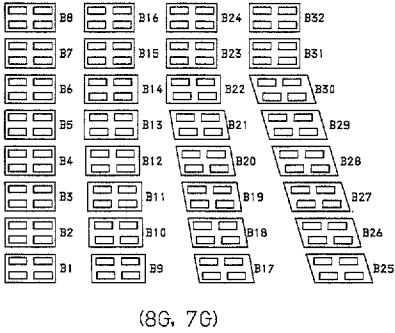
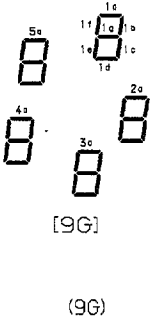
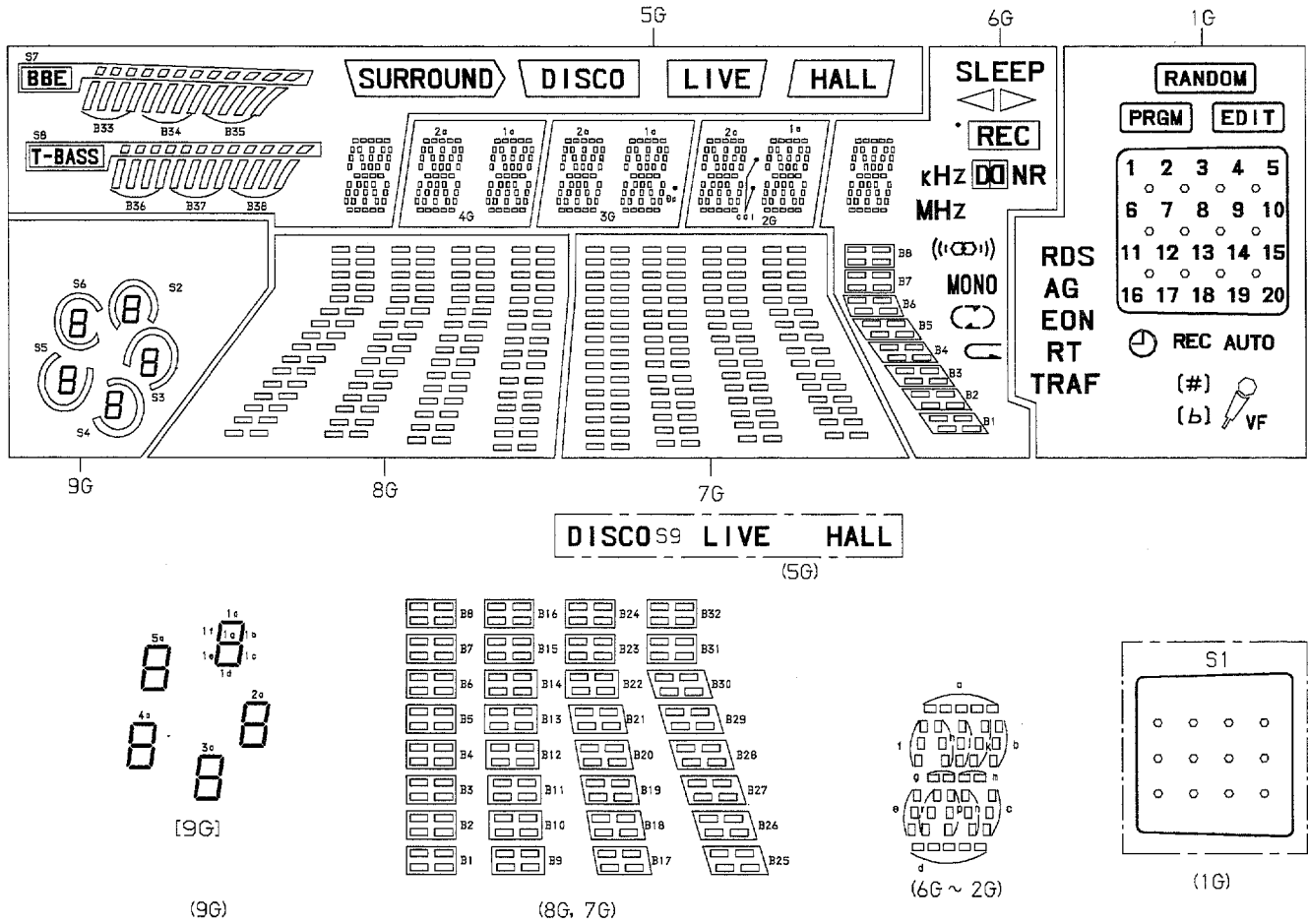


ATT:Attenuator
 SC:Side Chain
 DET:Detector







FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ540GK

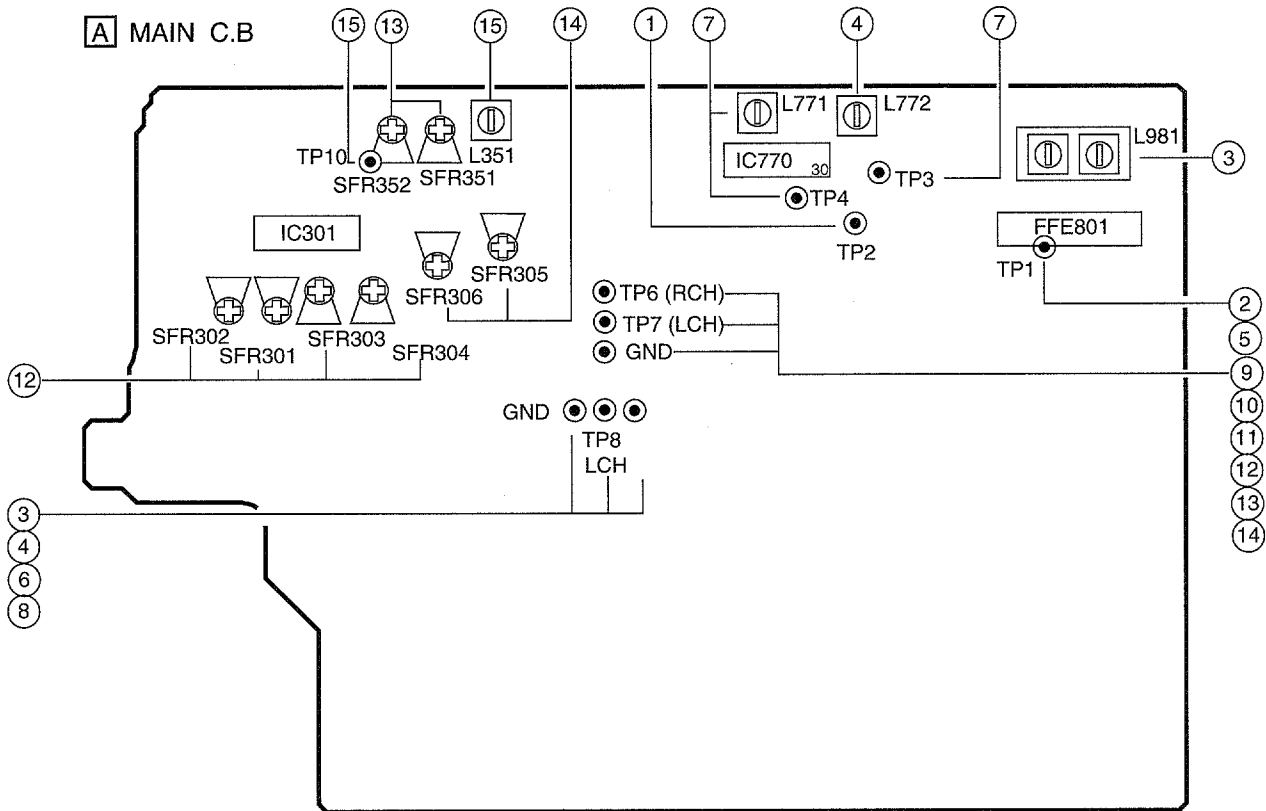
GRID ASSIGNMENT



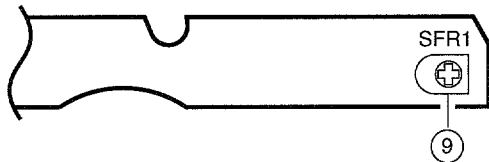
ANODE CONNECTION

	9G	8G, 7G	6G	5G	4G	3G	2G	1G
P1	S4	B8	d	d	1d	1d	1d	RANDOM
P2	3e	B16	n	n	1n	1n	1n	PRGM
P3	3c	B24	p	p	1p	1p	1p	EDIT
P4	3g	B32	r	r	1r	1r	1r	S1
P5	3f	B7	e	e	1e	1e	1e	1
P6	3b	B15	c	c	1c	1c	1c	2
P7	3a, 3d	B23	g	g	1g	1g	1g	3
P8	S5	B31	m	m	1m	1m	1m	4
P9	4e	B6	f	f	1f	1f	1f	5
P10	4c	B14	b	b	1b	1b	1b	6
P11	4g	B22	k	k	1k	1k	1k	7
P12	4f	B30	j	j	1j	1j	1j	8
P13	4b	B5	h	h	1h	1h	1h	9
P14	4a, 4d	B13	a	a	1a	1a	1a	10
P15	S2	B21	DO NR	B35	-	∅p	CO Below	11
P16	1a, 1d	B29		B34	-	-	CO Upper	12
P17	1b	B4		B33	2d	2d	2d	13
P18	1f	B12		S7	2n	2n	2n	14
P19	1g	B20	REC	B38	2p	2p	2p	15
P20	1c	B28	B8	B37	2r	2r	2r	16
P21	1e	B3	B7	B36	2e	2e	2e	17
P22	S6	B11	B6	S8	2c	2c	2c	18
P23	5a, 5d	B19	B5	(HALL)	2g	2g	2g	19
P24	5b	B27	B4	(LIVE)	2m	2m	2m	20
P25	5f	B2	B3	(DISCO)	2f	2f	2f	RDS
P26	5g	B10	B2	S9	2b	2b	2b	AG
P27	5c	B18	B1	SURROUND	2k	2k	2k	EON
P28	5e	B26	((OO))	-	2j	2j	2j	RT
P29	S3	B1	MONO	-	2h	2h	2h	TRAF
P30	2a, 2d	B9)	-	2a	2a	2a	REC
P31	2b	B17	(-	-	-	-	
P32	2f	B25	MHz	-	-	-	-	 VF
P33	2g	-	KHz	-	-	-	-	AUTO
P34	2c	-		-	-	-	-	() (b)
P35	2e	-	SLEEP	-	-	-	-	() (#)
P36	-	-	-	-	-	-	-	b #
P37	-	-	Z	-	-	-	-	-

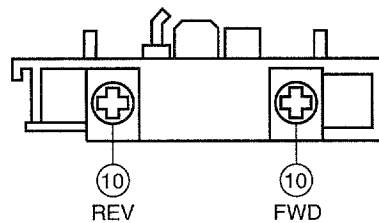
ADJUSTMENT - 1 <TUNER / DECK>



H DECK C.B.



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



< TUNER SECTION >

1. Clock Frequency Check
 Settings : • Test point : TP2 (CLK IC770 pin30)
 Method : Set to MW 1710kHz<LH>, 1602kHz<HE>, and check that the test point is 2160kHz \pm 45Hz<LH>, 2052kHz \pm 45kHz<HE>.
2. MW VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to MW 1710kHz<LH>, 1602kHz<HE> and check that the test point is less than 7.0V<LH>, less than 6.8V<HE>. Then Set to MW 530kHz<LH>, 531kHz<HE> and check that the test point is more than 0.6V.
3. MW Tracking Adjustment
 Settings : • Test point : TP8(Lch), TP9(Rch)
 • Adjustment location : L981(1/3)
 Method : Set to MW 1000kHz and adjust L981 so that the test point becomes maximum.
4. AM IF Adjustment
 Settings : • Test point : TP8(Lch), TP9(Rch)
 • Adjustment location : L772.....450kHz
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 1.0V (87.5MHz) and less than 8.0V (108.0MHz).
6. FM Tracking Check
 Settings : • Test point : TP8(Lch), TP9(Rch)
 Method : • Set to FM 98.0MHz and check that the test point is 0dB \pm 6dB<LH>, 3dB \pm 6dB<HE>.

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 between TP3 and TP4 becomes $0V \pm 0.04V$.

Next, check that the distortion is less than 1.3%.

8. Auto Stop Level Check

MW

Settings : • Input level : Valaible

Method : Check the auto stop at MW 1000kHz and the input level is 40 ~ 60 dB.

FM

Settings : • Input level : Valaible

Method : Check the auto stop at FM 98.0MHz and the input level is 18 dB +10/-5 dB.

< DECK SECTION >

9. Tape Speed Adjustment

Settings : • Test tape : TTA-100
• Test point : TP6, TP7
• Adjustment location : SFR1

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

10. Head Azimuth Adjustment

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

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

Settings : • Test tape : TTA-300
• Test point : TP6, TP7

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 $\pm 2dB$. Lch and Rch difference level of 10kHz is less than 2.0dB.

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

Settings : • Test tape : TTA-200

- Test point : TP6, TP7
- Adjustment location : SFR301 (DECK 1, Lch)
SFR302 (DECK 1, Rch)
SFR303 (DECK 2, Lch)
SFR304 (DECK 2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV.

13. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602
• Test point : TP6, TP7
• 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 12mV. 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.

14. REC/PB Sensitivity Adjustment

Settings : • Test tape : TTA-602
• Test point : TP6, TP7
• 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 12mV. Record and play back the 1kHz signals and check that the output is $0dB \pm 0.5dB$.

15. Bias OSC Frequency Adjustment

Settings : • Test tape : TTA-615
• Test point : TP10
• Adjustment location : L351

Method : Set to the REC mode. Adjust L351 so that the frequency at the test point is $85kHz \pm 1kHz$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

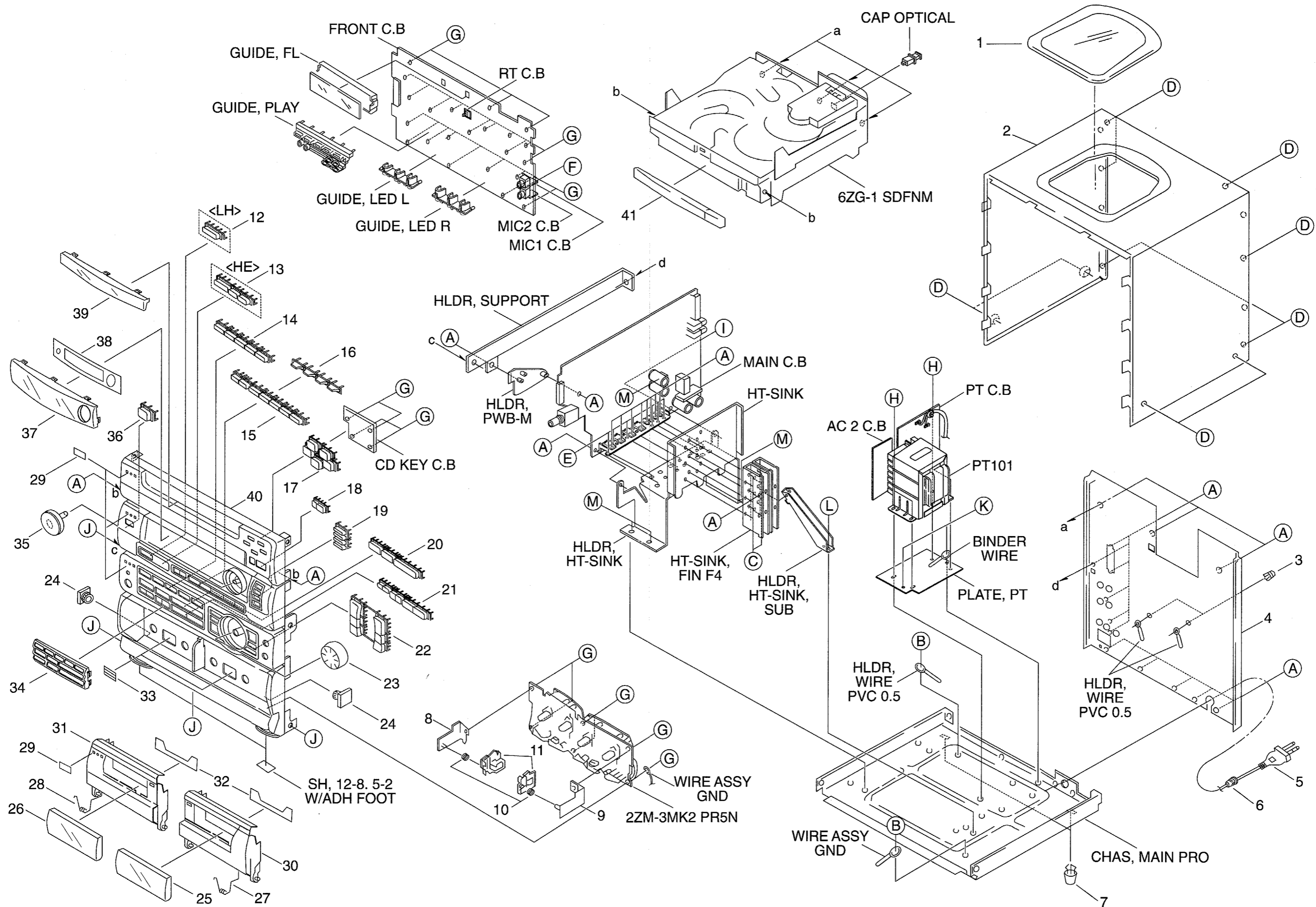
IHF Sensitivity : (THD 3%)	Less than 10dB [at 87.5MHz] Less than 9dB [at 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 36dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	More than 66dB (STEREO) More than 72dB (MONO) [at 98.0MHz]
Distortion :	Less than 1.2% [at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	More than 25dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity : (S/N 20 dB)	54dB +6/-7dB [at 603kHz (HE)] [at 600kHz (LH)] 52dB +6/-7dB [at 999kHz (HE)] [at 1000kHz (LH)] 52dB +6/-7dB [at 1404kHz (HE)] [at 1400kHz (LH)]
Signal to noise ratio :	More than 36dB [at 999kHz (HE)] [at 1000kHz (LH)]
Distortion :	Less than 1.5% [at 999kHz (HE)] [at 1000kHz (LH)]
Auto stop level :	Less than 60dB [at 999kHz (HE)] [at 1000kHz (LH)]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Take-up torque :	45g-cm +10/-15g-cm (FWD, REV)
F.F torque :	100g-cm +80/-25g-cm
REW torque :	100g-cm +30/-25g-cm
Back tension :	3g-cm +4/-1g-cm (FWD, REV)
PB output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB output level :	-3.0V ± 2dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Noise level (PB) :	Less than 18mV (NORM, SP OUT 2V) Less than 15mV (CrO2, SP OUT 2V)
Noise level (REC/PB) :	Less than 20mV (DOLBY OFF, NORM, SP OUT 2V) Less than 18mV (DOLBY OFF, CrO2, SP OUT 2V)
Crosstalk :	More than 50dB (1kHz)
Channel separation :	More than 35dB (1kHz)
Erasing ratio :	More than 60dB (at 125Hz,+10VU)
Test tape :	TTA-602 (NORMAL) TTA-615 (CrO2)

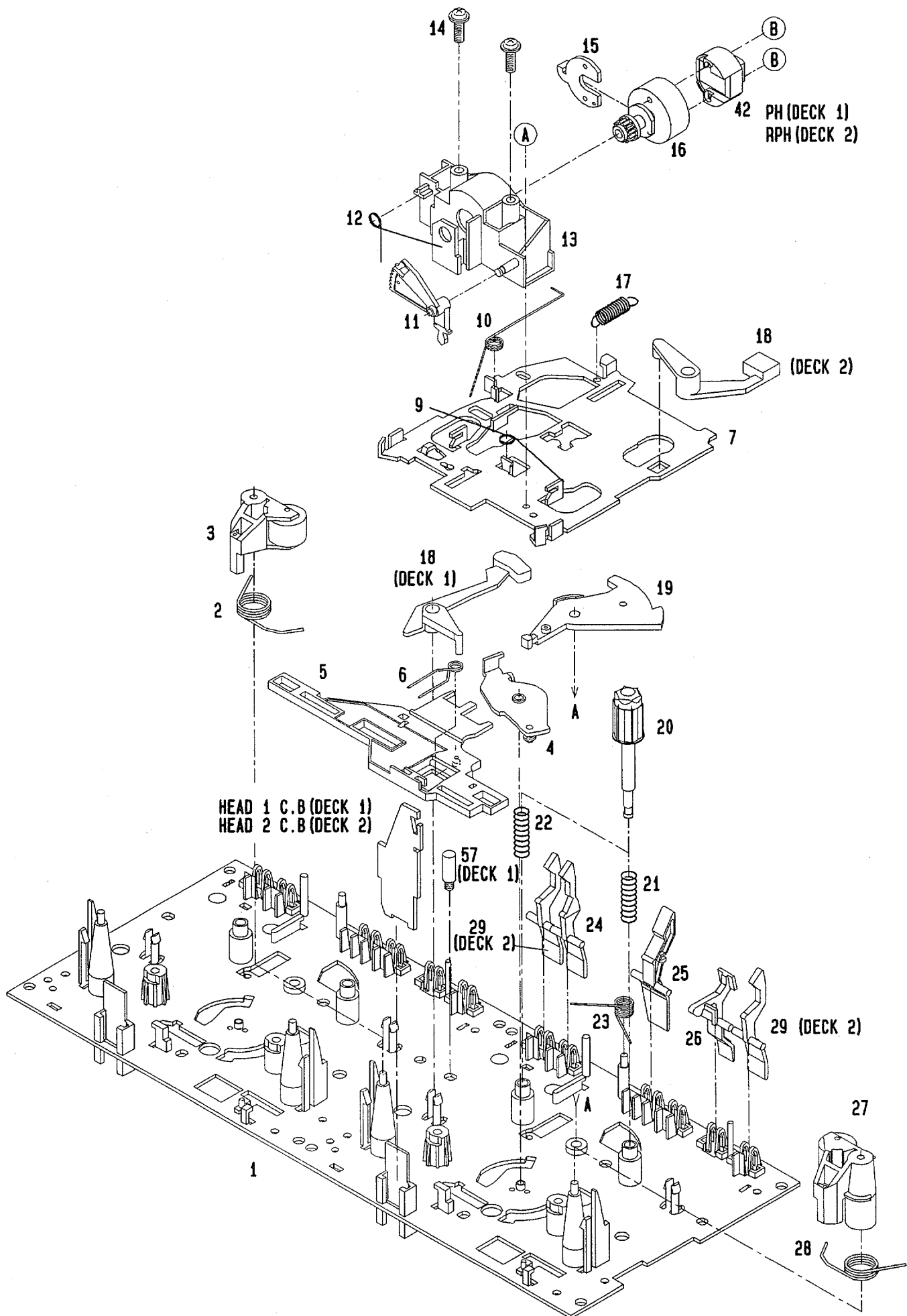


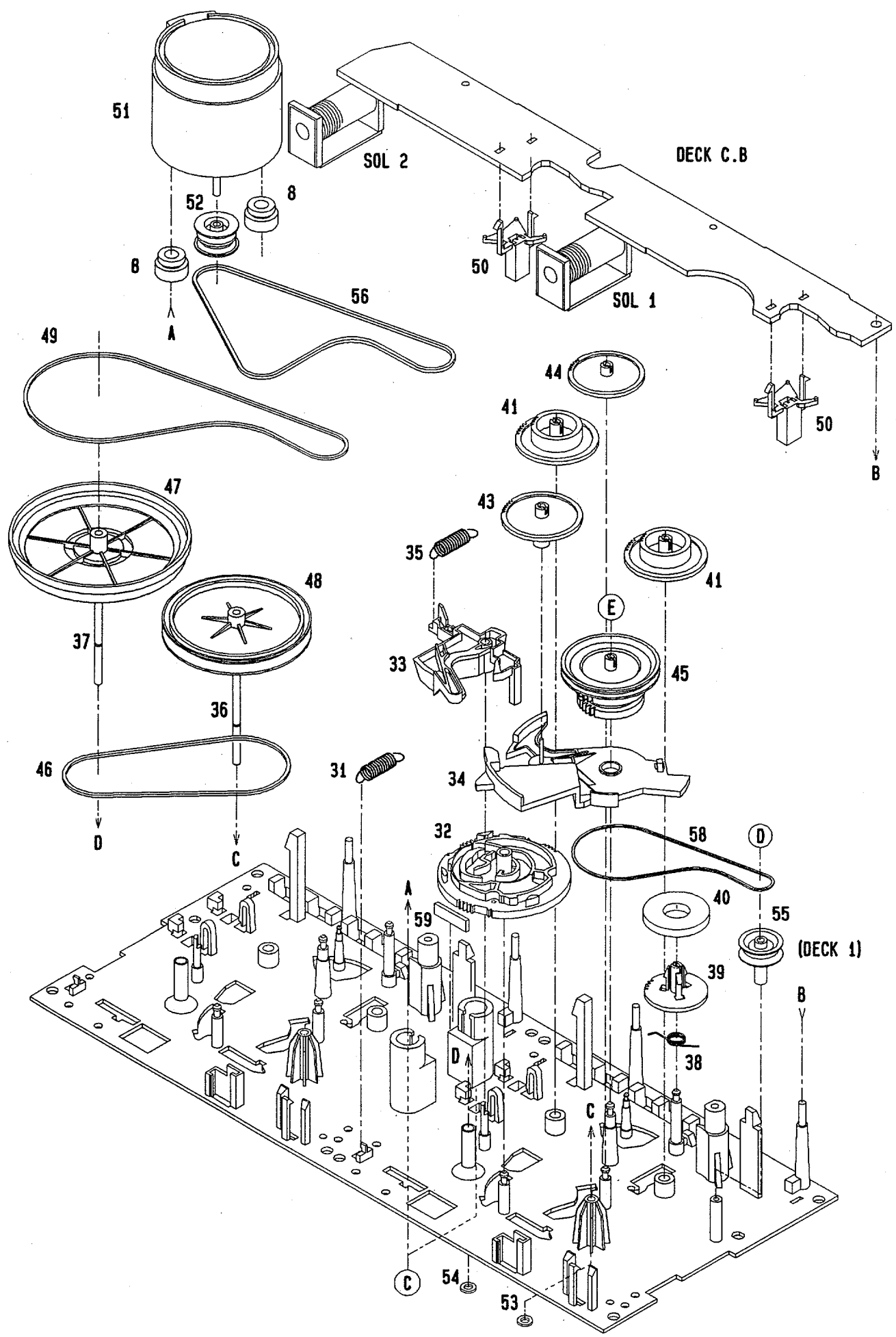
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA3-042-010		WINDOW, TOP	29	82-NE8-032-010		BADGE, AIWA 27.5 ABS GLD
2	87-MA3-011-010		CABI, STEEL	30	87-MA3-006-010		BOX, CASS R H
3	87-084-077-010		RIVET, NYL3.5-4.5	31	87-MA3-005-010		BOX, CASS L H
4	87-MA3-041-010		PANEL, REAR HEJSTNM<HE>	32	86-NF6-061-010		REFLECTOR, CASS
4	87-MA3-047-010		PANEL, REAR LHSTN<LH>	33	81-532-080-010		LBL, CASS-COMPT
4	87-MA3-043-010		PANEL, REAR LHSTNM<LH>	34	87-MA3-032-010		PANEL, FUN
△ 5	87-050-079-010		AC CORD ASSY, E BLK	35	87-MA3-026-010		KNOB, RTRY GEQ
6	87-085-185-010		BUSHING, AC CORD(E) CM-22B	36	87-MA3-014-010		KEY, POWER
7	87-MA3-062-010		FOOT, H17	37	87-MA3-029-010		WINDOW, DISPLAY
8	87-NF4-216-010		HLDR, LOCK 1	38	87-MA3-033-010		PLATE, DISPLAY
9	87-NF4-217-010		HLDR, LOCK 2	39	87-MA3-028-010		WINDOW, CD
10	82-NF5-228-010		SPR-C, LOCK	40	87-MA3-001-010		CABI, FR HE<HE>
11	82-NF5-229-010		PLATE, LOCK(*)	40	87-MA3-002-010		CABI, FR LH<LH>
12	87-MA3-017-010		KEY, VF<LH>	41	87-MA3-009-010		PANEL, TRAY
13	87-MA3-016-010		KEY, VF KEYCON<HE>	A	87-067-703-010		BVT2+3-10 W/O SLOT
14	87-MA3-019-010		KEY, FUN	B	87-067-688-010		BVTT+3-6
15	87-MA3-018-010		KEY, GEQ	C	87-067-690-010		BVIT3B+3-12 BLK
16	87-MA3-020-010		REFLECTOR, GEQ	D	87-067-641-010		UTT2+3-8 W/O SLOT BLK
17	87-MA3-012-010		KEY, DIRECT	E	87-067-581-010		BVT2+3-15 W/O SLOT
18	87-MA3-013-010		KEY, OPEN	F	81-MK1-210-010		S-SCREW, BFT2+3-16
19	87-MA3-025-010		KEY, MODE	G	87-078-060-010		BVIT3B+3-10
20	87-MA3-039-010		KEY, ASSY PLAY	H	87-067-975-010		S-SCREW, IT+4-8 SWCH12A
21	87-MA3-040-010		KEY, ASSY FF	I	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
22	87-MA3-024-010		KEY, DSP	J	87-591-095-410		QIT+3-8
23	87-MA3-027-010		KNOB, RTRY MAIN	K	87-067-585-010		BVTT+4-6
24	87-063-165-010		OIL-DMPR, 150	L	87-067-584-010		BVT2+3-6 W/O SLOT
25	87-MA3-031-010		WINDOW, CASS R	M	87-067-579-010		BVT2+3-8 W/O SLOT
26	87-MA3-030-010		WINDOW, CASS L				
27	82-NF5-219-010		SPR-T, EJECT 2(SIN)				
28	82-NF5-218-010		SPR-T, EJECT 1(SIN)				

TAPE MECHANISM EXPLODED VIEW 1 / 1



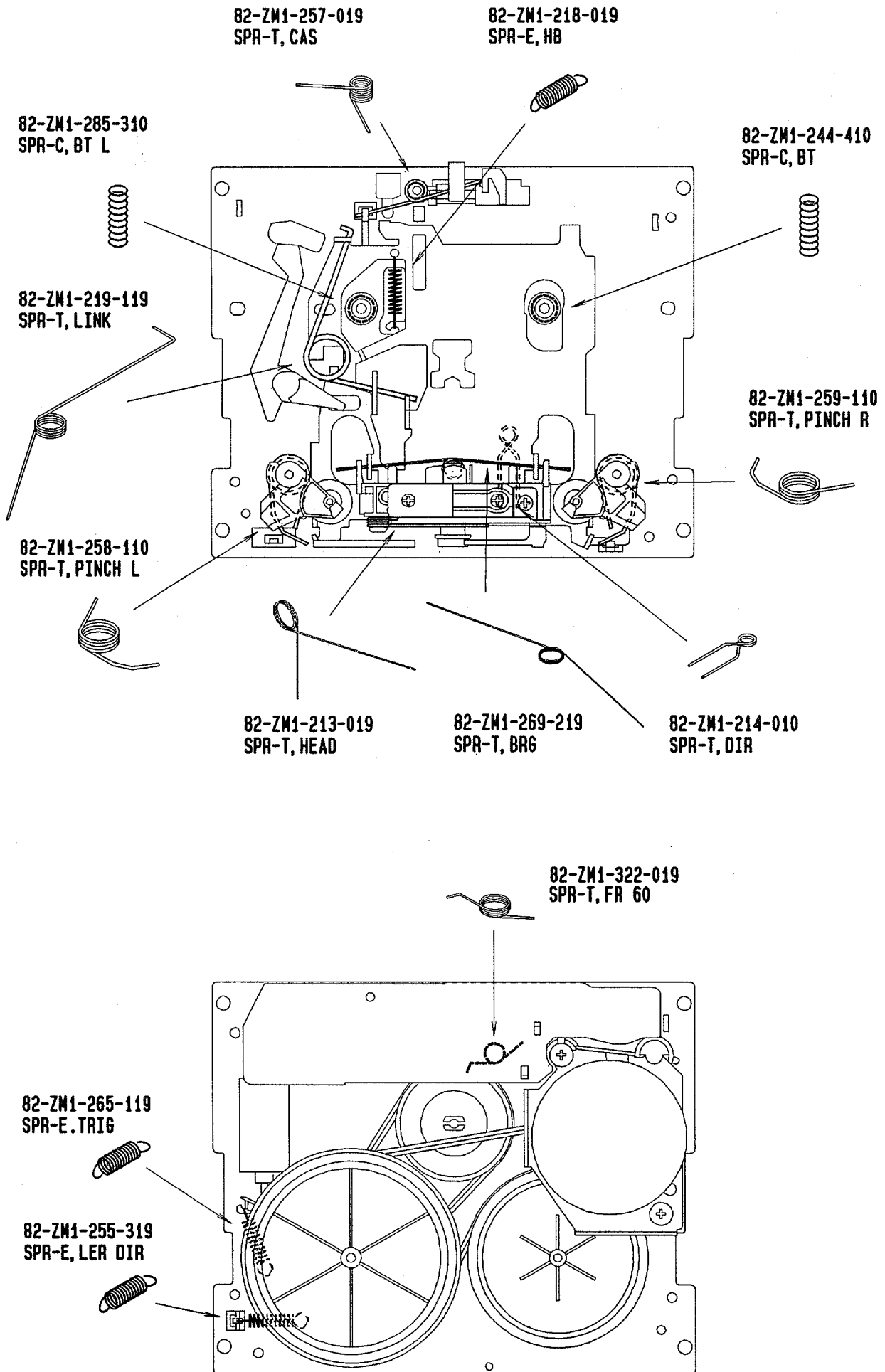


TAPE MECHANISM PARTS LIST 1 / 1

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		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

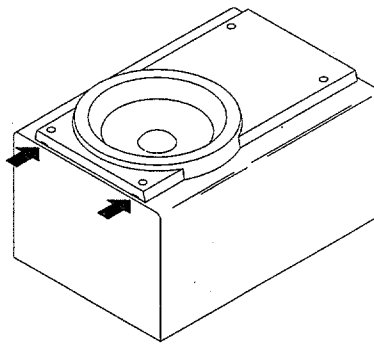


SPEAKER DISASSEMBLY INSTRUCTIONS

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。

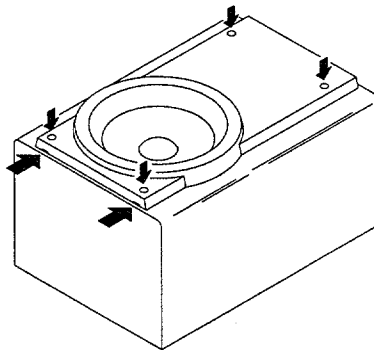
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



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。

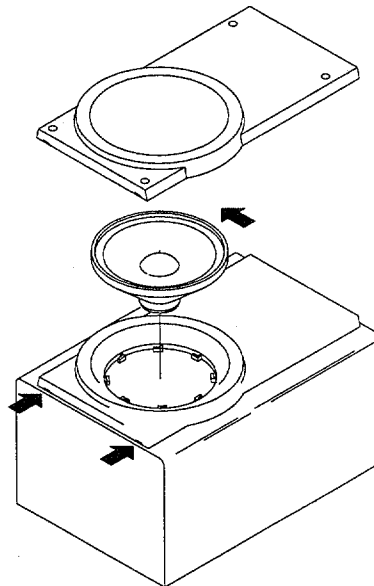
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then 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 1 / 1 (SX-ZR900)

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	87-MSP-001-019		PANEL, FR R	6	87-MSP-601-019		SPKR, W 200
2	87-MSP-002-019		PANEL, FR L	7	84-NS6-604-019		SPKR, T 80
3	87-MSP-005-019		PANEL, TW R	8	87-MSP-011-019		GRILLE, FRAME ASSY
4	87-MSP-006-019		PANEL, TW L	9	87-MSP-606-019		SPKR, CORD
5	87-MSP-008-019		HLDR, TW				

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MA3-901-010		IB, H(ECA)M<HE>
1	87-MA3-902-010		IB, LH(ES)M<LH>
2	87-006-225-010		ANT, LOOP ANT NC2
3	87-043-115-010		FEEDER-ANT, FM
4	87-MA6-702-010		RC UNIT, 7AS01
△	5	87-A90-312-010	PLUG, CONVERSION WTN-1157R1

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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