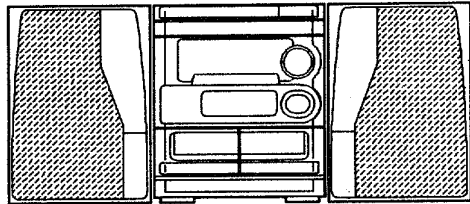




aiwa



NSX-K550



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 YPR4N
- BASIC CD MECHANISM : 4ZG-1 VSGD
- TYPE : HR,HC

•If requiring information about the CD mechanism, see Service Manual of 4ZG-1,
S/M Code No. 09-977-206-10T.

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)

<MW Tuner section>

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

<SW Tuner section>

Tuning range 5.900 MHz ~ 17.900 MHz
Antenna Wire antenna

<Amplifier section>

***Power output** Rated : 100 W + 100 W
 (6 ohms, T.H.D. 1 %, 1 kHz)
 Reference : 120 W + 120 W
 (6 ohms, T.H.D. 10 %, 1 kHz)

Total harmonic distortion

*without connecting to the
 SURROUND SPEAKERS
 0.05 % (70 W, 1 kHz, 6 ohms,
 DIN AUDIO)

Inputs

VIDEO /AUX : 210 mV (adjustable)
 MD : 210 mV (adjustable)
 MIC : 1.4 mV (10 kohms)

Outputs

LINE OUT : 200 mV
 VIDEO OUT: 1.0Vp-p (75 ohms)
 SUPER WOOFER : 2.7 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
Frequency response

4 tracks, 2 channels stereo
 CrO2 tape : 50 Hz -16000 Hz
 Normal tape : 50 Hz -15000 Hz
 AC bias

Recording system
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 0.05% (1 kHz, 0 dB)
Wow and flutter Unmeasurable
Video signal NTSC/PAL color format
 (selectable)
Video data MPEG1
Audio data MPEG1, LAYER2:

<Speaker system SX-ANS70>

Cabinet type 4 way, bass reflex with surround
 speaker (magnetic sealed type)
Speakers Woofer :

160 mm cone type

Tweeter :

50 mm cone type

Super tweeter :

20 mm ceramic type

Cardioid speaker :

80 mm cone type

Surround speaker :

80 mm cone type

Front speaker : 6 ohms

Surround speaker : 16 ohms

Impedance

Output sound pressure level

87 dB/W/m

Dimensions (W x H x D)

250 x 310 x 280 mm

Weight

4.5 kg

<General>

Power requirements

120 V/ 220 - 230 V/ 240 V AC,
 switchable ,50 / 60 Hz

Power consumption

140 W

Dimensions of main unit

260 x 309 x 346 mm

(W x H x D)

Weight of main unit

7.2 kg

- Design and specifications are subject to change without notice.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
 Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

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

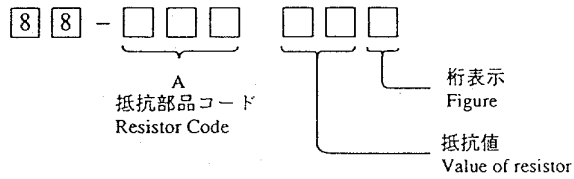
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-NH4-610-010	IC,LC866548A-5E56		C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-070-083-010	IC,GPIU281X		C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-501-040	C-IC,BA7762FS		C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A20-083-010	IC,BA3835S		C113	87-010-247-080		CAP,E 100-50 M SME
	87-A20-450-040	C-IC,BH3864F		C116	87-010-247-080		CAP,E 100-50 M SME
	87-A20-056-010	IC,BA3880S		C117	87-010-430-080		CAP,E 100-63 M SME
	87-A20-613-040	C-IC,BU9262AFS		C118	87-010-263-080		CAP,E 100-10 SME
	87-A20-456-040	C-IC,BH3810FS		C119	87-010-260-080		CAP,E 47-25 SME
	87-017-888-080	C-IC,NJM4558MD		C120	87-010-403-080		CAP,E 3.3-50 M SME
	86-NFZ-655-010	IC,LC72131D(Z)		C121	87-012-140-080		C-CAP,S 470P-50 J CH
	87-A20-438-010	IC,LA1837		C123	87-010-247-080		CAP,100-50 M SME
	87-020-454-010	IC,DN6851		C124	87-010-112-080		CAP,E 100-16 M SME
	87-A20-561-040	C-IC,M65847APP		C125	87-010-235-080		CAP,E 470-16 SME
				C129	87-010-393-080		CAP,E 100-35 M SME
				C201	87-010-401-080		CAP,E 1-50 M SME
TRANSISTOR				C202	87-010-401-080		CAP,E 1-50 M SME
	87-026-263-080	C-TR,RN1410		C205	87-010-181-080		C-CAP,S 1800P-50KB
	89-213-702-010	TR,2SB1370E		C206	87-010-181-080		C-CAP,S 1800P-50KB
	87-A30-076-080	C-TR,2SC3052F		C207	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-075-080	C-TR,2SA1235F		C208	87-010-404-080		CAP,E 4.7-50 M SME
	87-026-610-080	TR,KTC3198GR		C209	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-073-080	C-TR,RT1N 141C		C210	87-010-404-080		CAP,E 4.7-50 M SME
	87-A30-085-070	C-TR,CSA1362GR		C211	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-083-080	TR,CSD1489B		C212	87-010-186-080		C-CAP,S 4700P-50 K B
	87-A30-084-080	TR,CSB1058B		C213	87-010-260-080		CAP,E 47-25 SME
	87-A30-071-080	C-TR,RT1N 144C		C214	87-010-260-080		CAP,E 47-25 SME
	87-026-609-080	TR,KTA1266GR		C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A30-086-070	C-TR,CSD1306E		C219	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A30-106-070	C-TR,CMBT5551		C220	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A30-111-080	TR,CZN5401		C221	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A30-097-010	TR,FN1016		C222	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A30-098-010	TR,FP1016		C223	87-010-194-080		C-CAP,S 0.047-25 Z F
	87-A30-089-010	FET,2SK2723		C225	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A30-072-080	C-TR,RT1P 144C		C226	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A30-087-080	C-FET,2SK2158		C229	87-016-461-080		C-CAP,S 0.47-16 Z F
	87-A30-074-080	C-TR,RT1P 141C		C230	87-016-461-080		C-CAP,S 0.47-16 Z F
	89-327-143-080	C-TR,2SC2714(O)		C242	87-010-382-080		CAP,E 22-50 M SME
	89-505-434-540	C-TR,2SK543-TB (4/5)		C243	87-010-197-080		CAP,S 0.01-25 K B
	87-026-463-080	TR,2SA933S		C244	87-010-382-080		CAP,E 22-50 M SME
				C301	87-010-318-080		C-CAP,S 47P-50 J CH
DIODE				C302	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A40-270-080	C-DIODE,MC2838		C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
	87-A40-115-060	DIODE,RS603M		C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
	87-017-437-080	DIODE,1N4148M		C305	87-012-145-080		C-CAP,S 270P-50 J CH
	87-A40-246-080	DIODE,1N4148T-72		C306	87-012-145-080		C-CAP,S 270P-50 J CH
	87-A40-269-080	C-DIODE,MC2836		C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-070-274-080	DIODE,1N4003 SEM		C309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A40-344-080	ZENER,MTZJ6.2C		C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
	87-A40-341-080	ZENER,MTZJ36A		C311	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-345-080	ZENER,MTZJ10C		C312	87-010-198-080		C-CAP,S 0.022-25 K B
	87-A40-234-080	ZENER,MTZJ5.6A		C313	87-010-178-080		C-CAP,S 1000P-50 K B
	87-070-136-080	ZENER,MTZJ5.1B		C314	87-010-178-080		C-CAP,S 1000P-50 K B
	87-A40-004-080	ZENER,MTZJ16A		C315	87-010-178-080		C-CAP,S 1000P-50 K B
	87-026-681-080	DIODE,RK 34(F)		C316	87-010-178-080		C-CAP,S 1000P-50 K B
	87-017-931-080	ZENER,MTZJ5.6B		C321	87-016-492-080		C-CAP,S 0.33-16 Z F
	87-A40-003-080	ZENER,MTZJ4.3A		C322	87-016-492-080		C-CAP,S 0.33-16 Z F
				C324	87-010-260-080		CAP,E 47-25 SME
				C325	87-010-370-080		CAP,E 330-6.3 M SME
MAIN C.B				C327	87-010-404-080		CAP,E 4.7-50 M SME
	88-906-241-110	FF-CABLE,6P 1.25		C328	87-010-404-080		CAP,E 4.7-50 M SME
C101	87-016-520-090	CAP,E 3300-65 M SMG		C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C102	87-016-520-090	CAP,E 3300-65 M SMG		C335	87-010-401-080		CAP,E 1-50 M SME
C103	87-010-928-090	CAP,E 4700-25 M SMG		C336	87-010-401-080		CAP,E 1-50 M SME
C104	87-010-928-090	CAP,E 4700-25 M SMG		C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C105	87-012-368-080	C-CAP,S 0.1-50 Z F		C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C106	87-012-368-080	C-CAP,S 0.1-50 Z F		C351	87-012-140-080		C-CAP,S 470P-50 J CH
C107	87-012-368-080	C-CAP,S 0.1-50 Z F		C352	87-012-140-080		C-CAP,S 470P-50 J CH
C108	87-012-368-080	C-CAP,S 0.1-50 Z F					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C354	87-010-175-080		C-CAP,S 560P-50 J SL	C701	87-010-381-080		CAP,E 330-16 SME
C355	87-012-349-080		C-CAP,S 1000P-50 J CH	C702	87-010-404-080		CAP,E 4.7-50 M SME
				C703	87-010-197-080		C-CAP,S 0.01-25 K B
C356	87-010-260-080		CAP,E 47-25 SME				
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
				C714	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				
C373	87-010-993-080		C-CAP,S 0.056-25 K B MK212	C721	87-010-312-080		C-CAP,S 15P-50 J CH
C374	87-010-993-080		C-CAP,S 0.056-25 K B MK212	C722	87-010-312-080		C-CAP,S 15P-50 J CH
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C379	87-010-382-080		CAP,E 22-25 M SME	C725	87-010-178-080		C-CAP,S 1000P-50 K B
				C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C380	87-010-382-080		CAP,E 22-25 M SME				
C381	87-010-197-080		C-CAP,S 0.01-25 K B	C728	87-010-248-080		CAP,E 220-10 SME
C382	87-010-312-080		C-CAP,S 15P-50 J CH	C755	87-010-197-080		C-CAP,S 0.01-25 K B
C383	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
C384	87-010-402-080		CAP,E 2.2-50 M SME	C757	87-010-318-080		C-CAP,S 47P-50 J CH
				C758	87-010-149-080		C-CAP,S 5P-50 CH
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012				
C387	87-012-145-080		C-CAP,S 270P-50 J CH	C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C388	87-010-154-080		C-CAP,S 10P-50 D CH	C762	87-010-197-080		C-CAP,S 0.01-25 K B
C401	87-010-187-080		C-CAP,S 5600P-50 K B	C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C402	87-010-187-080		C-CAP,S 5600P-50 K B	C765	87-010-197-080		C-CAP,S 0.01-25 K B
				C766	87-010-197-080		C-CAP,S 0.01-25 K B
C403	87-010-405-080		CAP,E 10-50 M SME				
C404	87-010-405-080		CAP,E 10-50 M SME	C767	87-010-405-080		CAP,E 10-50 M SME
C405	87-010-260-080		CAP,E 47-25 SME	C768	87-010-197-080		C-CAP,S 0.01-25 K B
C406	87-010-101-080		CAP,E 220-16 SME	C769	87-010-408-080		CAP,E 47-50 SME
C407	87-010-188-080		C-CAP,S 6800P-50 K B	C770	87-015-821-080		CAP,E 0.047-50 Z F GR
				C771	87-010-407-080		CAP,E 33-50 SME
C408	87-010-188-080		C-CAP,S 6800P-50 K B				
C409	87-012-140-080		C-CAP,S 470P-50 J CH	C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C410	87-012-140-080		C-CAP,S 470P-50 J CH	C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C411	87-010-197-080		C-CAP,S 0.01-25 K B	C774	87-010-263-080		CAP,E 100-10 SME
C412	87-010-197-080		C-CAP,S 0.01-25 K B	C775	87-010-404-080		CAP,E 4.7-50 M SME
				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				
C414	87-010-195-080		C-CAP,S 0.068-25 Z F C2012	C778	87-010-401-080		CAP,E 1-50 M SME
C415	87-010-404-080		CAP,E 4.7-50 M SME	C779	87-010-401-080		CAP,E 1-50 M SME
C416	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
C417	87-010-404-080		CAP,E 4.7-50 M SME	C781	87-010-405-080		CAP,E 10-50 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				
C421	87-010-401-080		CAP,E 1-50 M SME	C783	87-015-819-080		C-CAP,0.01-50 K B
C422	87-010-401-080		CAP,E 1-50 M SME	C784	87-010-197-080		C-CAP,S 0.01-25 K B
C503	87-012-154-080		C-CAP,S 150P-50J CH	C785	87-010-400-080		CAP,E 0.47-50 M SME
C504	87-012-154-080		C-CAP,S 150P-50J CH	C786	87-010-400-080		CAP,E 0.47-50 M SME
				C787	87-010-184-080		C-CAP,S 3300P-50 K B
C505	87-012-145-080		C-CAP,S 270P-50 K B				
C506	87-012-145-080		C-CAP,S 270P-50 K B	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C507	87-010-183-080		C-CAP,S 2700P-50 K B	C789	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	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C510	87-010-177-080		C-CAP,S 820P-50 J SL	C791	87-010-405-080		CAP,E 10-50 M SME
				C793	87-010-178-080		C-CAP,S 1000P-50 K B
C511	87-010-177-080		C-CAP,S 820P-50 J SL				
C512	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C794	87-010-406-080		CAP,E 22-50 M SME
C513	87-010-374-080		CAP,E 47-10 SME	C795	87-010-596-080		C-CAP,S 0.047-16 R K
C514	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C796	87-010-403-080		CAP,E 3.3-50 M SME
C515	87-010-263-080		CAP,E 100-10 SME	C797	87-010-180-080		C-CAP,S 1500P-50 K B
				C798	87-010-182-080		C-CAP,S 2200P-50 K B
C517	87-010-183-080		C-CAP,S 2700P-50 K B				
C527	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	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	C814	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	C820	87-010-408-080		CAP,E 47-50 SME
				C821	87-010-197-080		C-CAP,S 0.01-25 K B
C613	87-010-404-080		CAP,E 4.7-50 M SME				
C614	87-010-404-080		CAP,E 4.7-50 M SME	C822	87-010-197-080		C-CAP,S 0.01-25 K B
C615	87-010-183-080		C-CAP,S 2700P-50 K B	C823	87-010-197-080		C-CAP,S 0.01-25 K B
C619	87-010-263-080		CAP,E 100-10 SME	C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C940	87-010-197-080		C-CAP,S 0.01-25 K B
C621	87-010-263-080		CAP,E 100-10 SME				
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C941	87-010-314-080		C-CAP,S 22P-50 J CH
C623	87-010-194-080		C-CAP,S 0.047-25 Z F	C943	87-010-197-080		C-CAP, S 0.01-25 K B
C629	87-010-196-080		C-CAP,S 0.1-25 Z F	C944	87-014-051-080		CAP,PP 560P-100 J
C646	87-010-322-080		C-CAP,S 100P-50J C H	C945	87-010-197-080		C-CAP,S 0.01-25 K B
				C947	87-010-197-080		C-CAP,S 0.01-25 K B
C647	87-010-322-080		C-CAP,S 100P-50J C H				
C650	87-010-381-080		CAP,E 330-16 SME	C950	87-014-073-080		CAP,PP 4700P-100 J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C952	87-010-197-080		C-CAP,S 0.01-25 K B	C119	87-010-408-040		CAP,E 47-50 M SME
C953	87-010-197-080		C-CAP,S 0.01-25 K B	C120	87-010-404-040		CAP,E 4.7-50 SME
C954	87-010-400-080		CAP,E 0.47-50 M SME	C121	87-010-404-040		CAP,E 4.7-50 SME
C956	87-010-263-080		CAP,E 100-10 SME	C122	87-010-194-080		C-CAP,S 0.047-25 Z F
				C123	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012				
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C962	87-010-401-080		CAP,E 1-50 M SME	C125	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
CF801	87-008-261-010		FLTR,CFSFE10.7MA5	C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
CF802	87-008-261-010		FLTR,CFSFE10.7MA5	C128	87-010-178-080		C-CAP,S 1000P-50 K B
				C351	87-012-158-080		C-CAP,S 390P-50 J CH GRM
FFE801	A8-72A-291-030		72A-2 YFEUNM				
J252	87-A60-024-010		JACK,DIA6.3 BLK ST W/SW KM	C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J253	87-099-474-010		JACK,PIN 3P BLK W/SW	C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)	C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J601	87-A60-426-010		JACK,PIN 6P 3835	C355	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
				C356	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02				
L201	87-003-383-010		COIL,1UH K	C357	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L202	87-003-383-010		COIL,1UH K	C403	87-010-596-080		C-CAP,S 0.047-16 K R
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C404	87-010-596-080		C-CAP,S 0.047-16 K R
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C405	87-010-401-040		CAP,E 1-50 M SME
				C406	87-010-401-040		CAP,E 1-50 M SME
L351	87-007-342-010		COIL,OSC 85KHZ BIAS				
L601	87-003-231-089		C-COIL,1UH	C407	87-010-184-080		C-CAP,S 3300P-50 K B
L770	87-005-849-080		COIL,10UH K CECS	C408	87-010-184-080		C-CAP,S 3300P-50 K B
L771	87-A50-165-010		COIL,FM DET-N(TOK)	C409	87-010-592-080		C-CAP,S 0.022-16KR
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)	C410	87-010-592-080		CAP,S 0.022-16KR
				C411	87-016-463-080		C-CAP,0.33-16 K B
L832	87-005-847-080		COIL,2.2UH K CECS				
L941	87-A50-022-010		COIL,ANT SW (COI) 7.96 MHZ	C412	87-016-463-080		C-CAP,0.33-16 K B
L942	87-A50-173-010		COIL,OSC SW-N (COI)	C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L943	87-005-372-080		COIL,1 MHZ K LALO3	C414	87-010-374-040		CAP,E 47-10 SME
L944	87-A50-159-010		COIL,10 MH K C28	C415	87-010-374-040		CAP,E 47-10 SME
				C416	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
L981	87-NF4-666-010		COIL,AM PACK3(TOK)				
PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C417	87-016-081-080		C-CAP,S 0.1-16 K R
PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V	C418	87-010-405-040		CAP,E 10-50 M SME
R231	87-A00-262-080		RES,M/F 0.15-2W J	C501	87-010-319-080		C-CAP,S 56P-50J CH
R232	87-A00-262-080		RES,M/F 0.15-2W J	C502	87-010-319-080		C-CAP,S 56P-50J CH
				C503	87-012-393-080		C-CAP,S 0.22-16KW5
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5				
RY201	87-045-382-010		RELAY,12V OVAZ-SH	C504	87-010-197-080		C-CAP,S 0.01-25K B
SFR301	87-024-438-080		SFR,220K H RH063MC	C505	87-010-180-080		C-CAP,S 1500P-50KB
SFR302	87-024-438-080		SFR,220K H RH063MC	C506	87-010-213-080		C-CAP,S 0.015-25KB
SFR303	87-024-438-080		SFR,220K H RH063MC	C507	87-010-213-080		C-CAP,S 0.015-25KB
				C508	87-010-197-080		C-CAP,S 0.01-25KB
SFR304	87-024-438-080		SFR,220K H RH063MC				
SFR351	87-024-436-080		SFR,47K H RH063MC	C509	87-010-181-080		C-CAP,S 1800P-50KB
SFR352	87-024-436-080		SFR,47K H RH063MC	C510	87-010-196-080		C-CAP,S 0.1-25 Z F
TH201	87-A90-221-080		C-THMS 100K	C511	87-010-196-080		C-CAP,S 0.1-25 Z F
TH202	87-A90-221-080		C-THMS 100K	C512	87-010-374-040		CAP,E 47-10 SME
				C513	87-010-494-040		CAP,E 1-50 5L SRE
W001	85-NF5-628-010		F-CABLE,7P-2.5				
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C514	87-010-494-040		CAP,E 1-50 5L SRE
X771	87-030-354-01		VIB,CER 450.0KHZ BFUC	C515	87-010-183-080		C-CAP,S 2700P-50KB
				C516	87-010-183-080		C-CAP,S 2700P-50KB
				C518	87-010-196-080		C-CAP,S 0.1-25 Z F
				C519	87-015-677-040		CAP,E 100-6.3 M 7L
FRONT C.B							
	85-NF5-618-010		CABLE,FFC 13P-1.25	C523	87-012-141-080		CAP,S 0.22-16 Z F
	85-NF5-615-010		CABLE,FFC 15P-1.25	C601	87-010-560-040		CAP,E 10-50 M 5L MA
C101	87-010-198-080		C-CAP,S 0.022-25 K B	C602	87-010-186-080		C-CAP,S 4700P-50KB
C102	87-010-198-080		C-CAP,S 0.022-25 K B	C603	87-010-498-040		CAP,E 10-16 M 5L
C103	87-010-197-080		C-CAP,S 0.01-25 K B	C604	87-010-499-040		CAP,E 22-6.3 M 5L
C104	87-010-312-080		C-CAP,S 15P-50 J CH	C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C105	87-010-316-080		C-CAP,S 33P-50 J CH	C607	87-010-321-080		C-CAP,S 82P-50 J CH
C106	87-010-320-080		C-CAP,S 68P-50 J CH	C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM	C609	87-010-491-040		CAP,E 0.22-50 5L SRE
C108	87-010-498-040		CAP,E 10-16 M 5L SRE	C611	87-010-177-080		C-CAP,S 820P-50 J SL
C109	87-010-494-040		CAP,E 1-50 5L SRE	C614	87-010-248-040		CAP,E 220-10 M SME
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	FB601	87-008-372-080		FLTR,EMIBL01 RN1
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	FL101	87-NF6-610-010		FL,BJ531GK
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	J601	87-NF7-630-010		JACK,3.5MO
C113	87-A10-189-040		CAP,E 220-10 M	J602	87-NF7-630-010		JACK,3.5MO
C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012	L501	87-005-448-080		COIL,220UH K FLR50
C115	87-010-178-080		C-CAP,S 1000P-50 K B	LED201	87-A40-317-080		LED,SLR-342VCT31 RED
C116	87-010-494-040		CAP,E 1-50 5L SRE	LED202	87-A40-317-080		LED,SLR-342VCT31 RED
C117	87-010-550-040		CAP,E 100-6.3 5L SRE	LED203	87-A40-317-080		LED,SLR-342VCT31 RED
C118	87-010-194-080		C-CAP,S 0.047-25 Z F	LED204	87-A40-317-080		LED,SLR-342VCT31 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

KTA1266GR
KTC3198GR



E C B

CSD1489B
CSB1058B



E C B

2SA933S



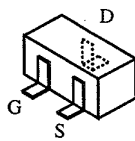
G D S

2SK2723

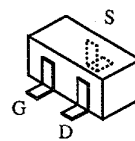


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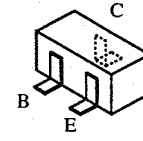
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FP1016



2SK2158



2SK543



2SC2714
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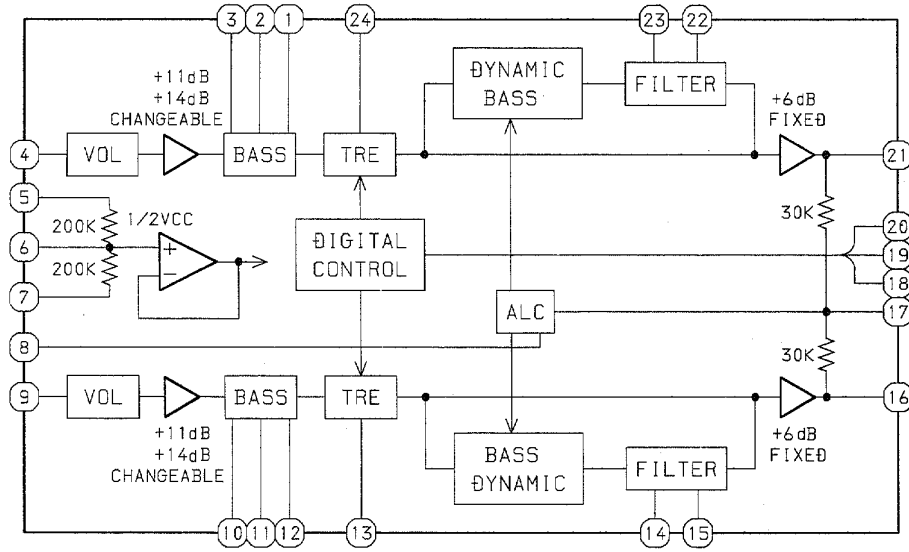


E B C

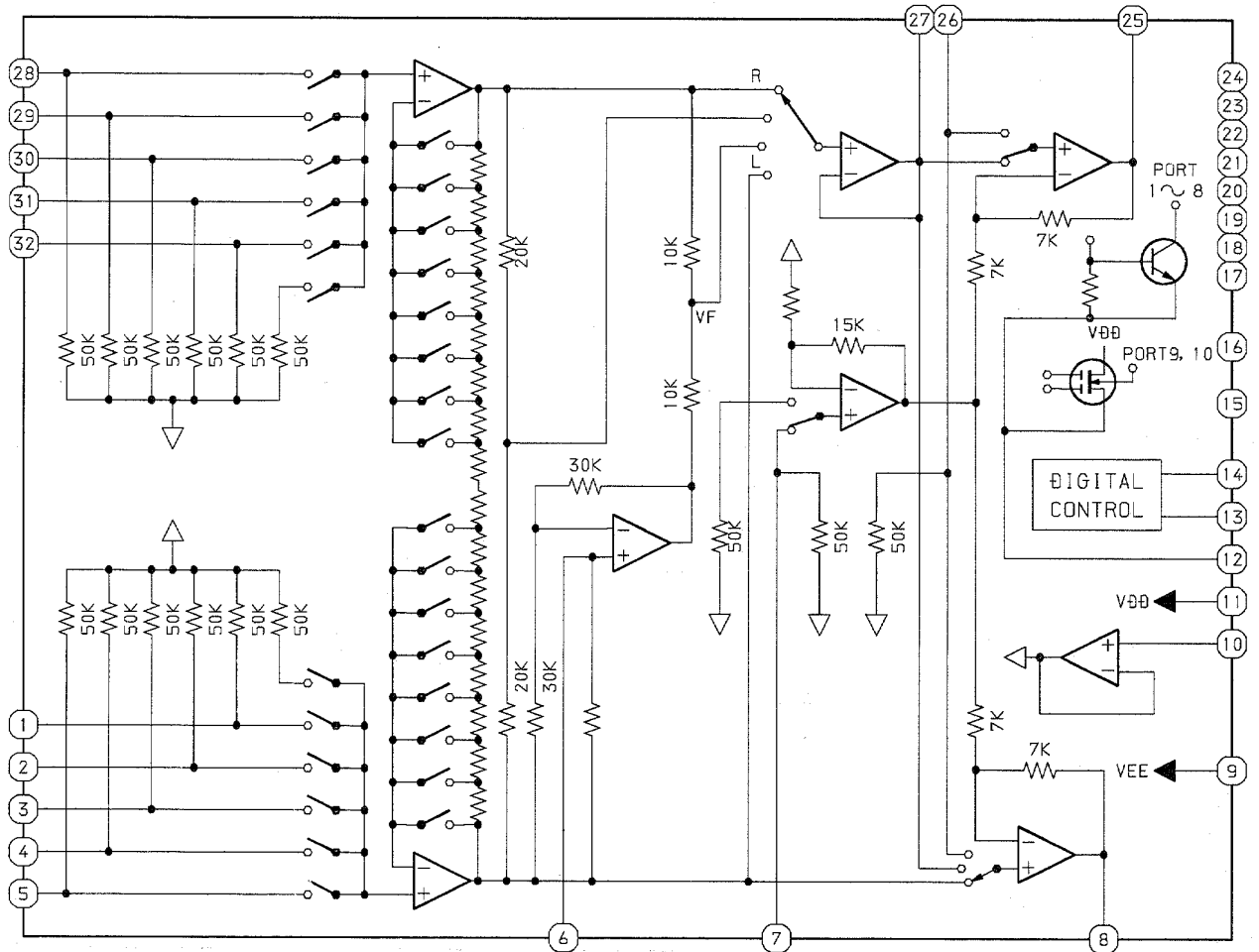
C2N5401

IC BLOCK DIAGRAM - 1

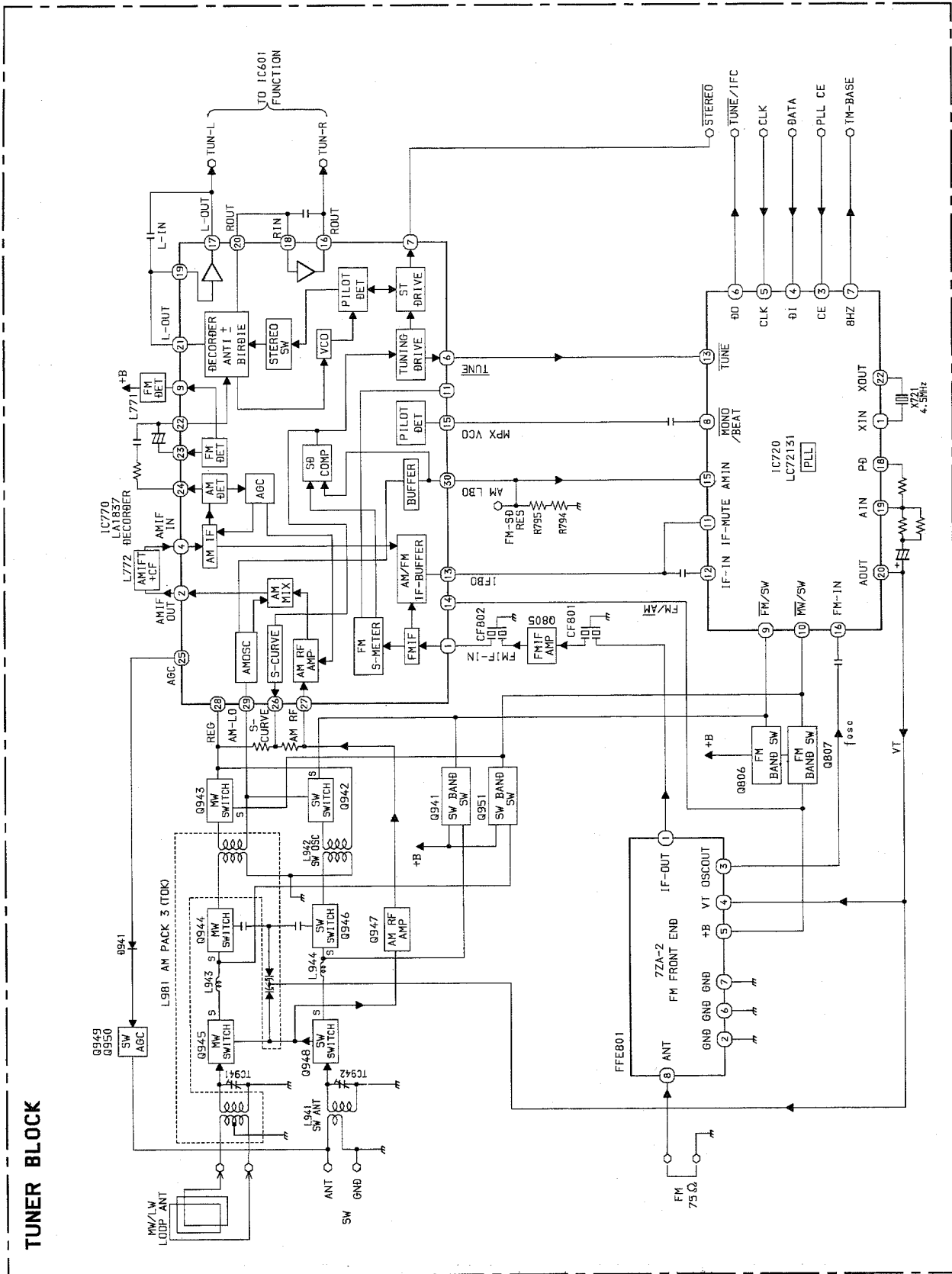
IC, BH3864F



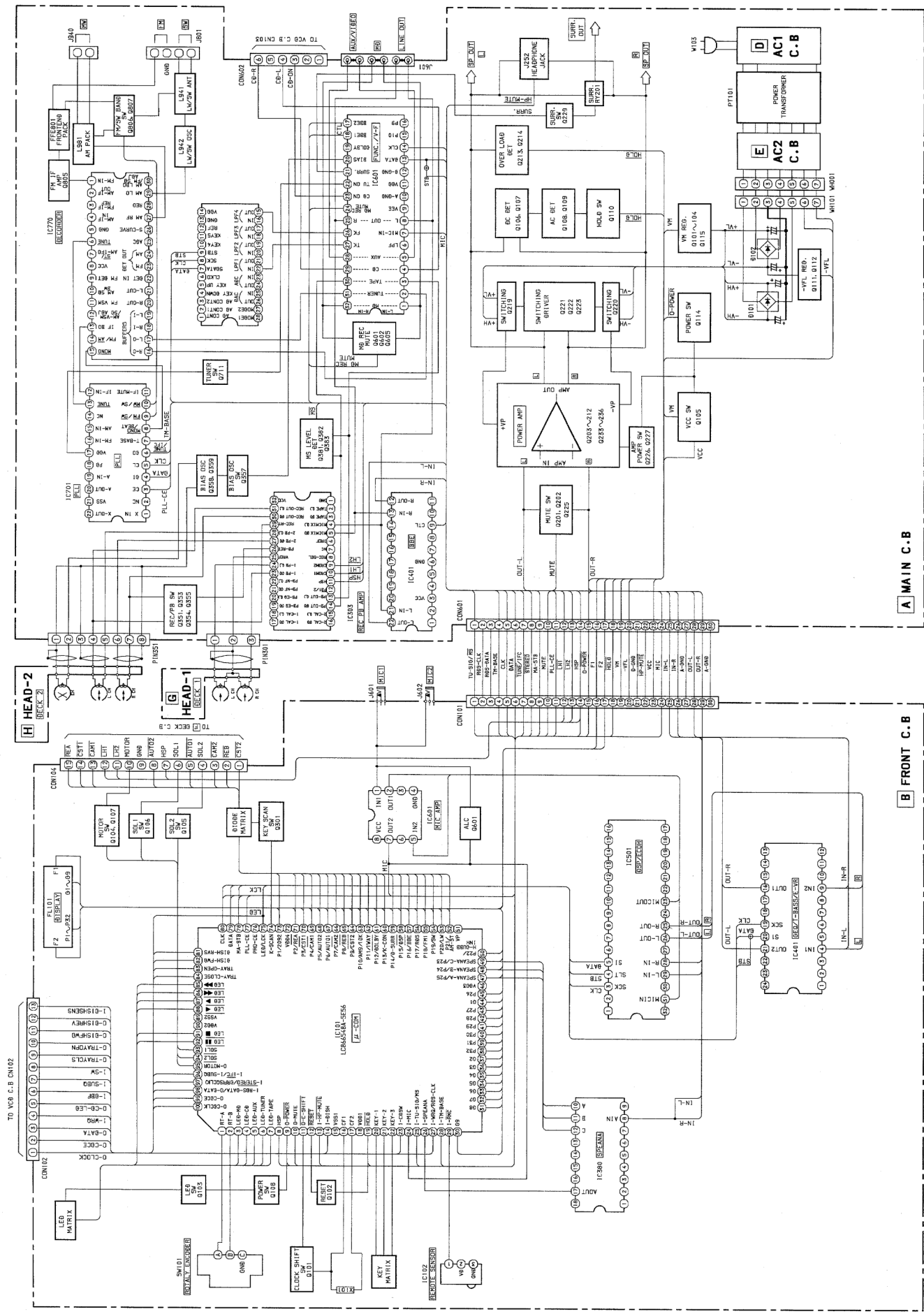
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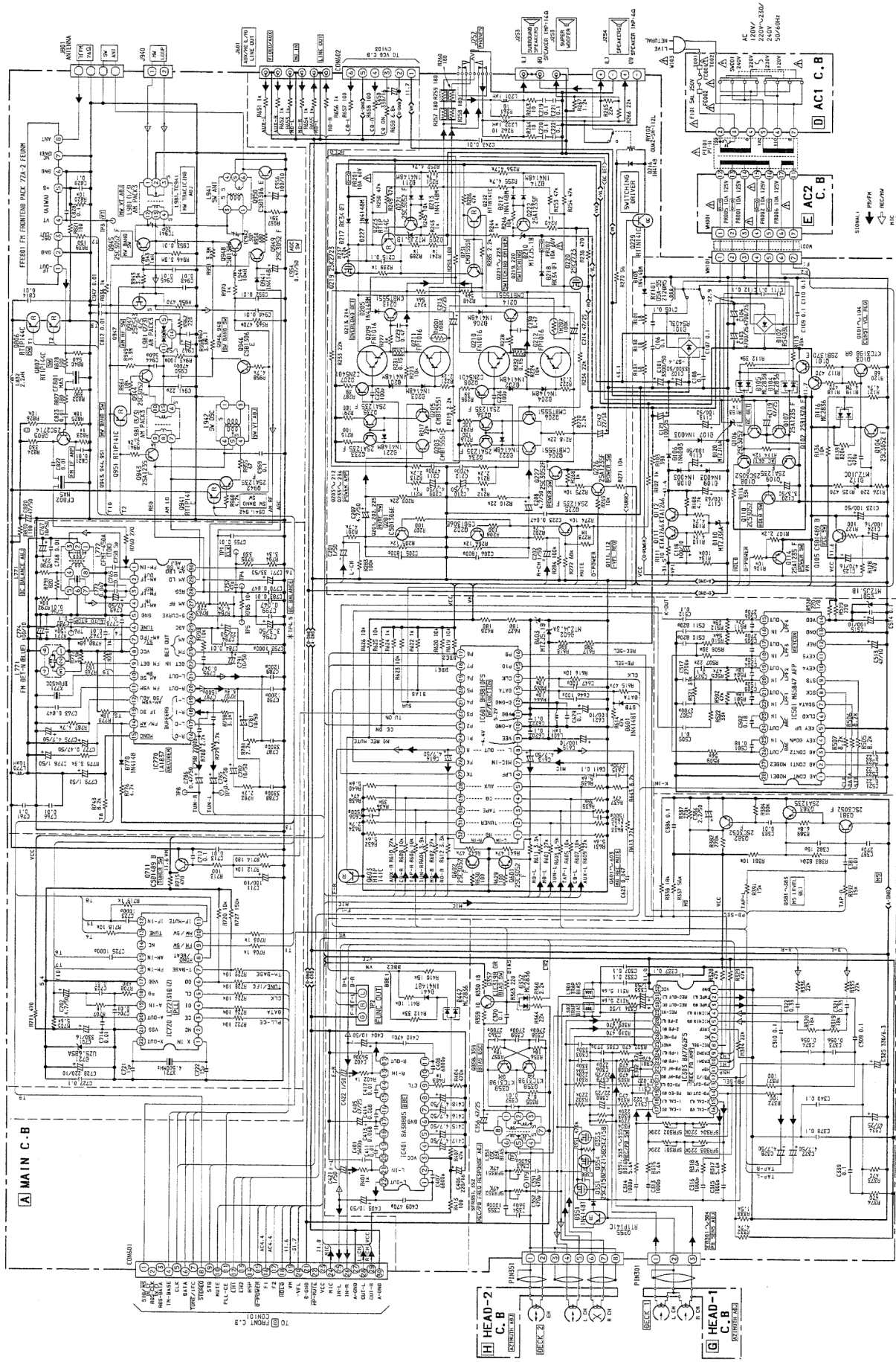


BLOCK DIAGRAM - 1 (TUNER)

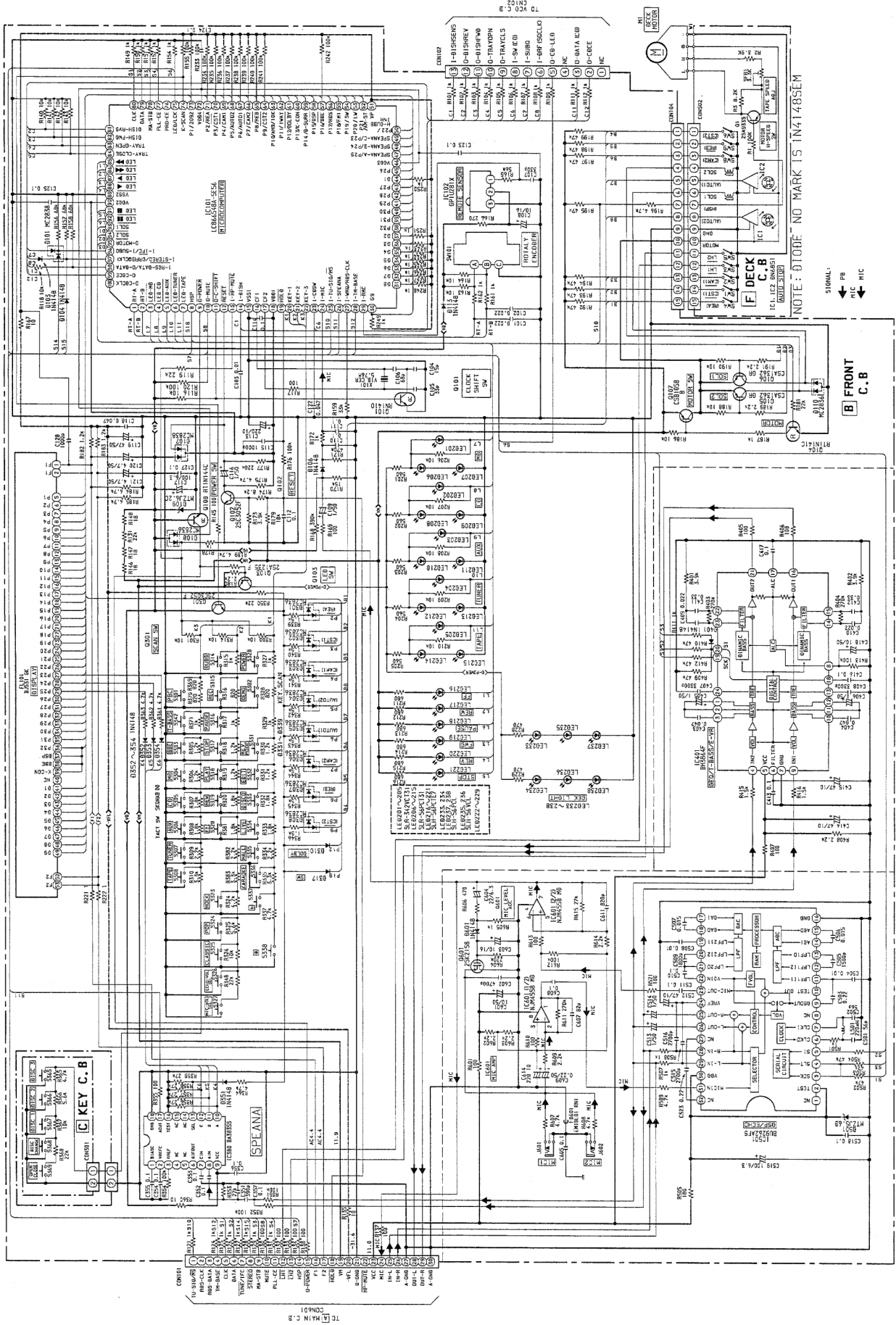


BLOCK DIAGRAM - 2 (MAIN / FRONT)

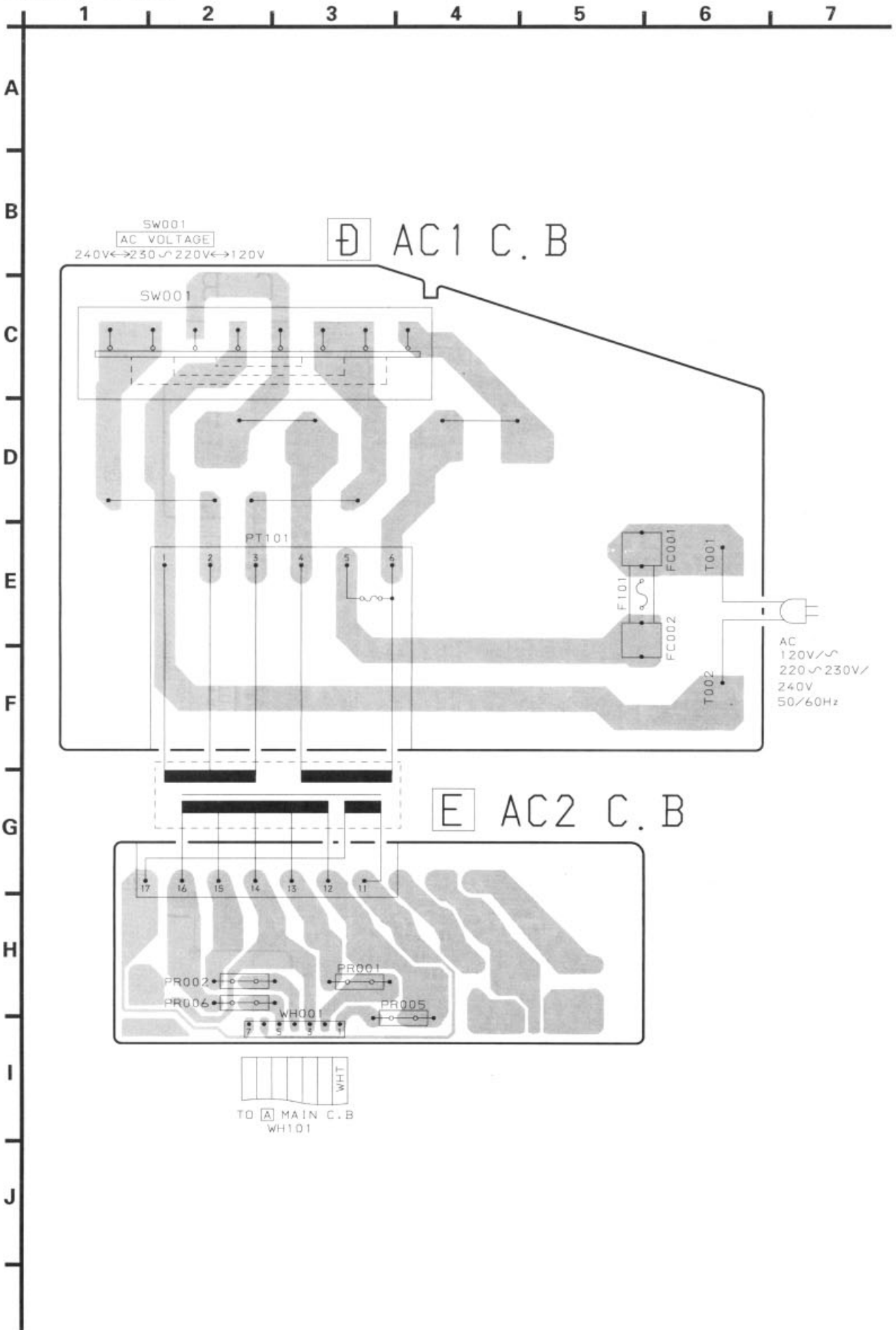




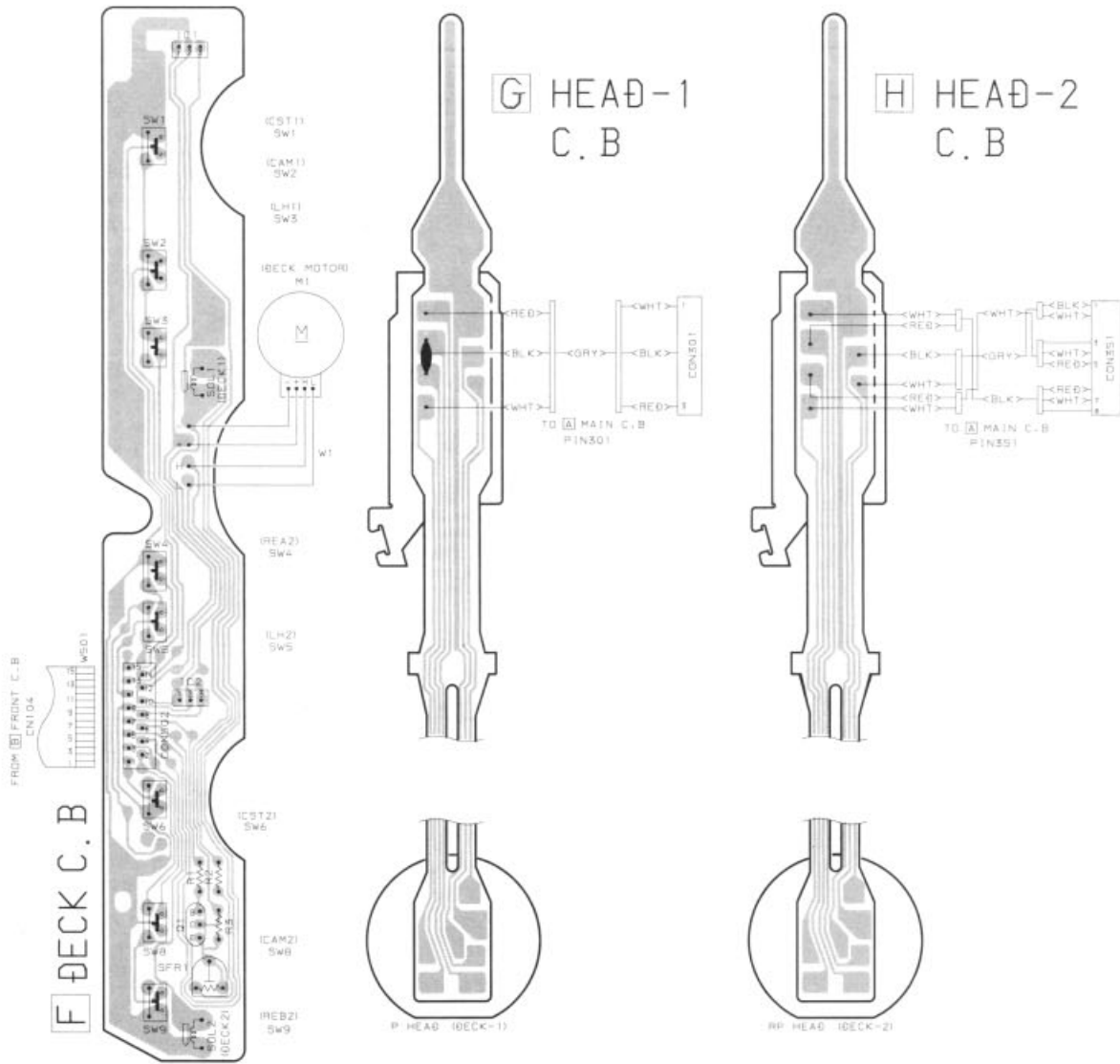
SCHEMATIC DIAGRAM - 2 (FRONT)



WIRING - 3 (AC)

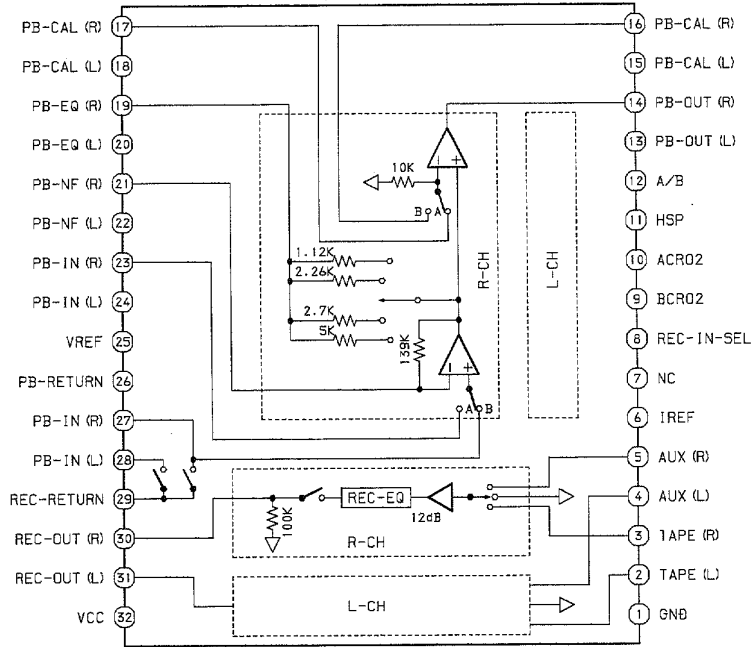


A
B
C
D
E
F
G
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I
J

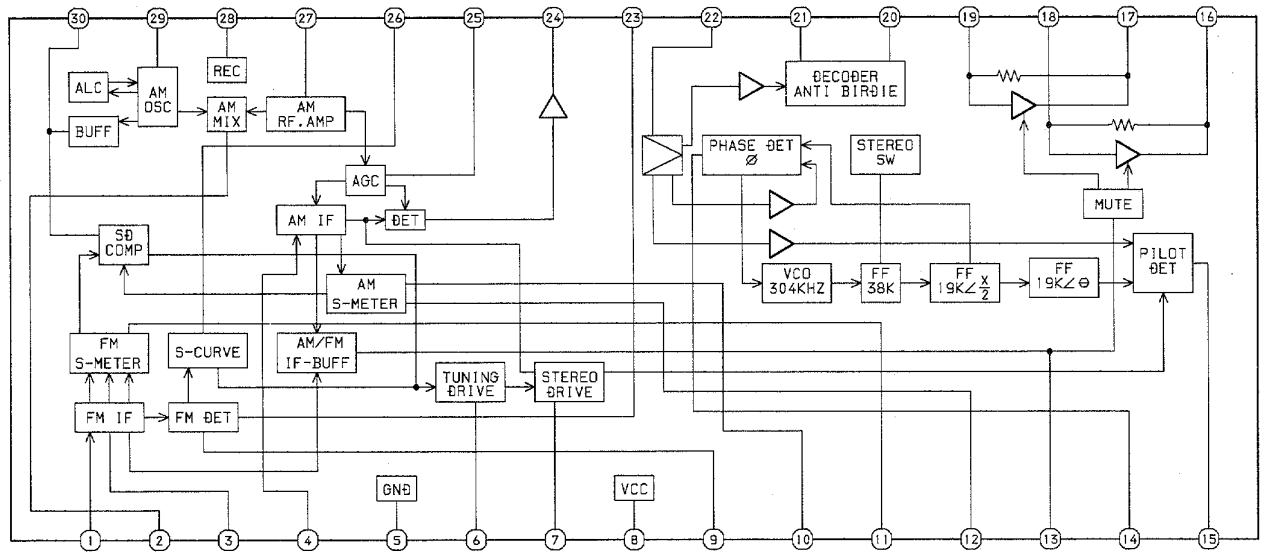


IC BLOCK DIAGRAM - 2

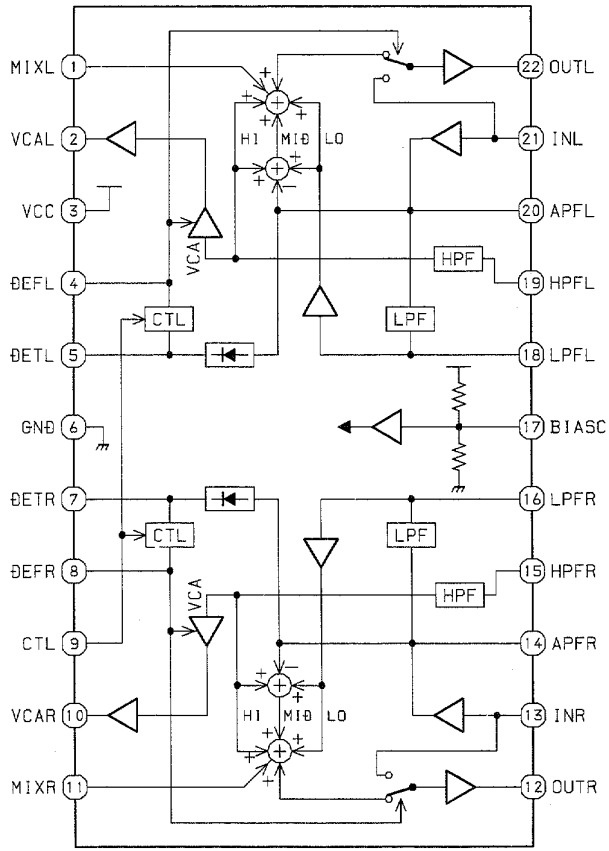
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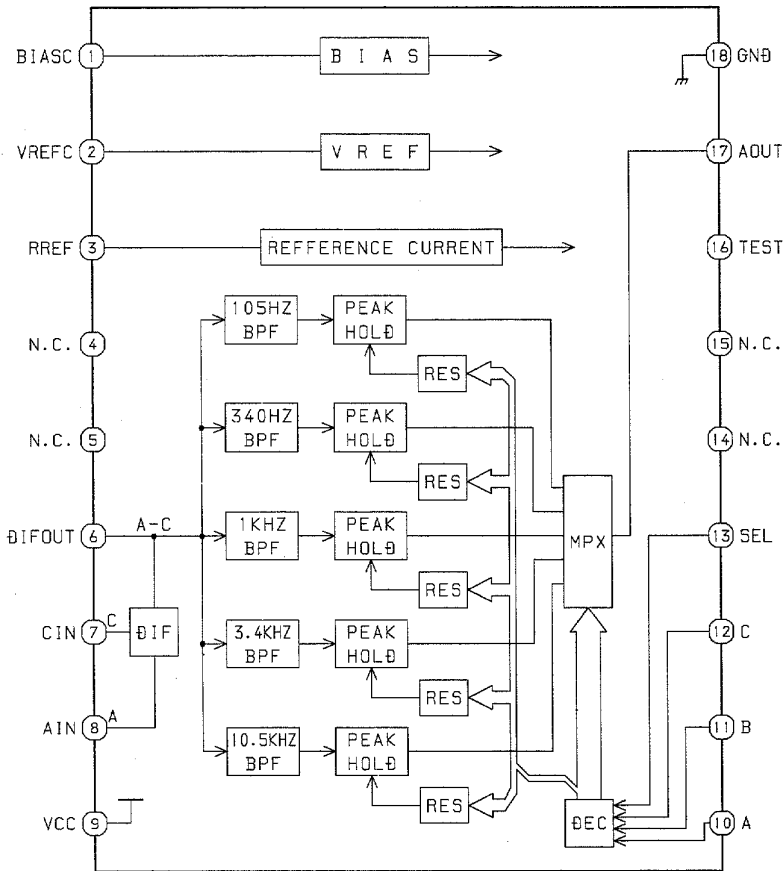
IC, LA1837



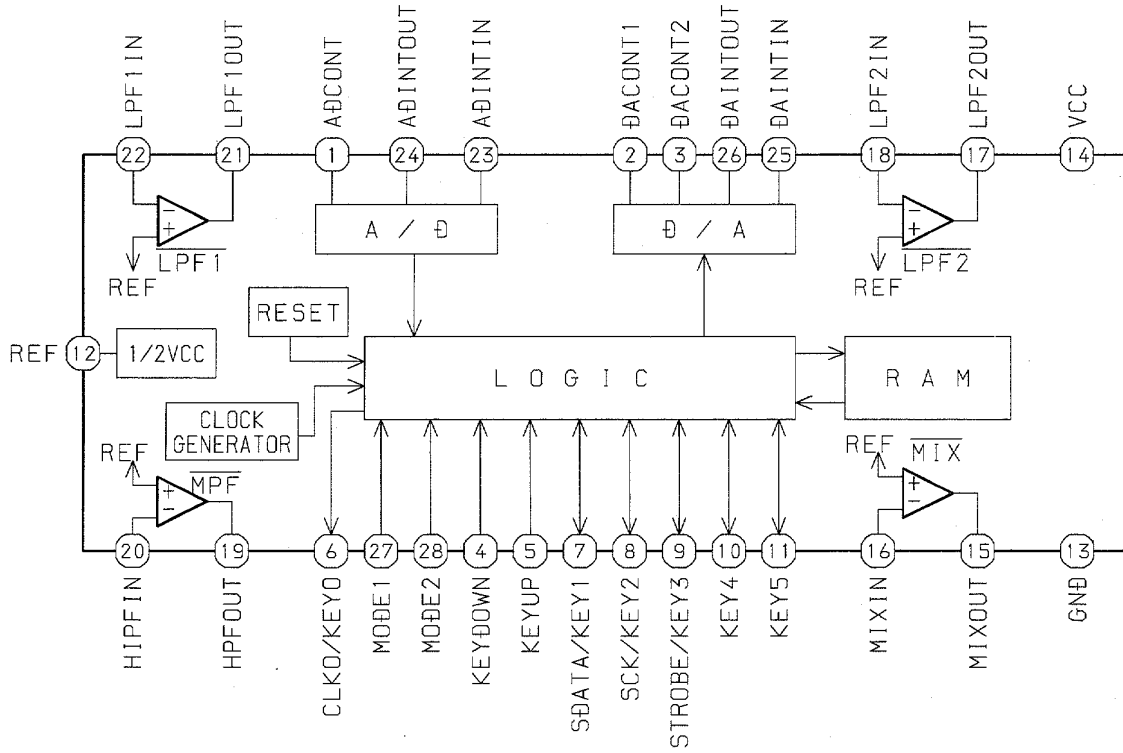
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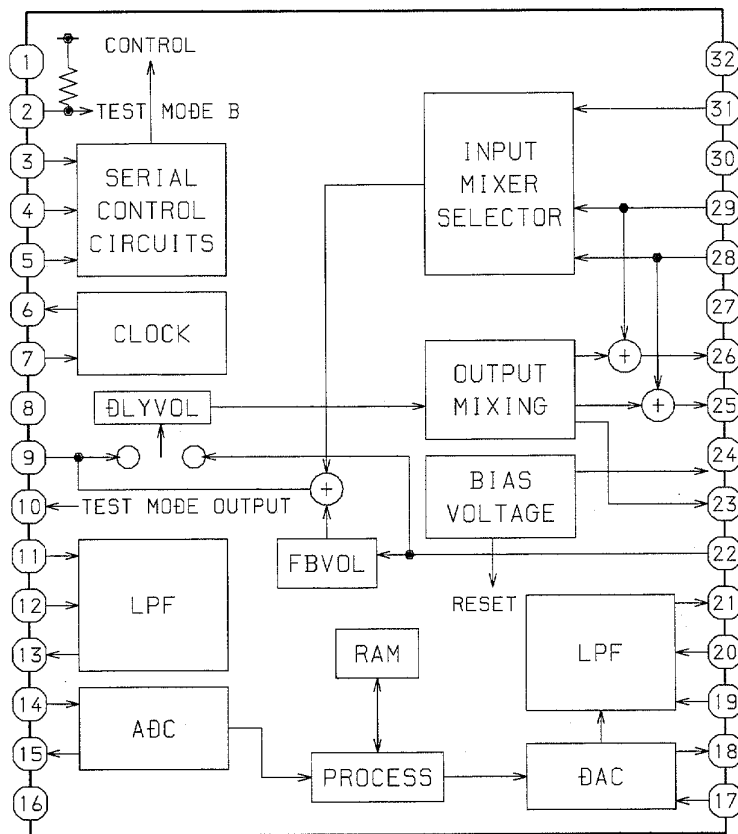
IC, BA3835S



IC, M65847AFP

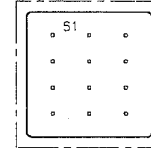
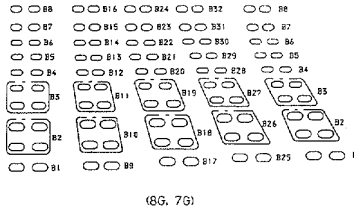
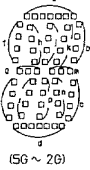
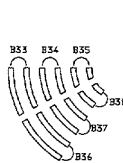
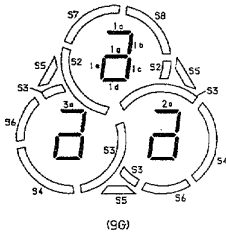
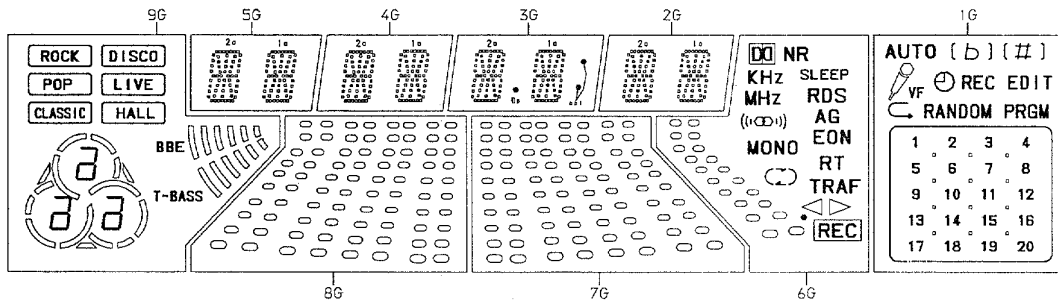


IC, BU9262AFS



FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT



BJ5310K
GRID ASSIGNMENT

ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	co1(F)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1q	1q	1q	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1o	1o	1o	11
P16	S5	B5	B5	-	co1(B)	-	12
P17	S7	B28	-	-	0p	-	13
P18	S4	B20	-	2d	2d	2d	14
P19	S6	B12	-	2n	2n	2n	15
P20	(HALL)	B4	B4	2p	2p	2p	16
P21	(LIVE)	B27	AG	2r	2r	2r	17
P22	(DISCO)	B19	((1001))	2e	2e	2e	18
P23	(CLASSIC)	B11	EON	2c	2c	2c	19
P24	(POP)	B3	B3	2q	2q	2q	20
P25	(ROCK)	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	⌚
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25)	2j	2j	2j	↶
P30	B34	B17	⌵	2h	2h	2h	((#))
P31	B35	B9	(2o	2o	2o	((b))
P32	S9 T-BASS	B1	B1	-	-	-	S1
P33	S10	-	-	-	-	-	-
P34	BBE	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #

BJ5310K
ANODE CONNECTION

IC DESCRIPTION

IC, LC866548A-5E56

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	$\overline{\text{LED-MD}}$	O	"MD" LED ON/OFF output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED ON/OFF output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED ON/OFF output.
6	$\overline{\text{LED-TUNER}}$	O	"TUNER" LED ON/OFF output.
7	$\overline{\text{LED-TAPE}}$	O	"TAPE" LED ON/OFF output.
8	HSP	O	Tape deck motor high speed ON/OFF output.
9	$\overline{\text{O-POWER}}$	O	System power supply ON/OFF output.
10	$\overline{\text{O-MUTE}}$	O	System mute ON/OFF output.
11	$\overline{\text{O-CLK-SHIFT}}$	O	U-COM clock shift output.
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	-	Not connected.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	-	GND.
16	CF 1	-	5.76MHz oscillator circuit.
17	CF 2	-	
18	VDD 1	-	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detected input "1" to stop clock and main memory.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-MIC	I	Microphone input for AUTO VF display.
25	$\overline{\text{I-TU-SIG/MS}}$	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input . TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	$\overline{\text{I-RMC}}$	I	System remote control signal input.
30~37	G9~G2	O	FL GRID output G2~G9.
38~43	P32~P27	O	FL SEGMENT output P27~P32.
44	G1	O	FL grid output G1.
45	P26	-	FL SEGMENT output P26.
46	VDD3	-	Power supply input.
47	SPEANA-A/P25	O	Spectrum analyzer band switching output /FL segment P25 output.
48	SPEANA-B/P24	O	Spectrum analyzer band switching output /FL segment P24 output.
49	SPEANA-C/P23	O	Spectrum analyzer band switching output /FL segment P23 output.
50	P22/H-DUBB INH	I/O	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	-	Power supply input for FL display.
52	P21/AM-ST	I/O	FL segment P21 output / AM stereo input to diode.
53	P20/LW	I/O	FL segment P20 output / LW mode data input to diode.
54	P19/SW	I/O	FL segment P19 output / SW mode data input to diode.

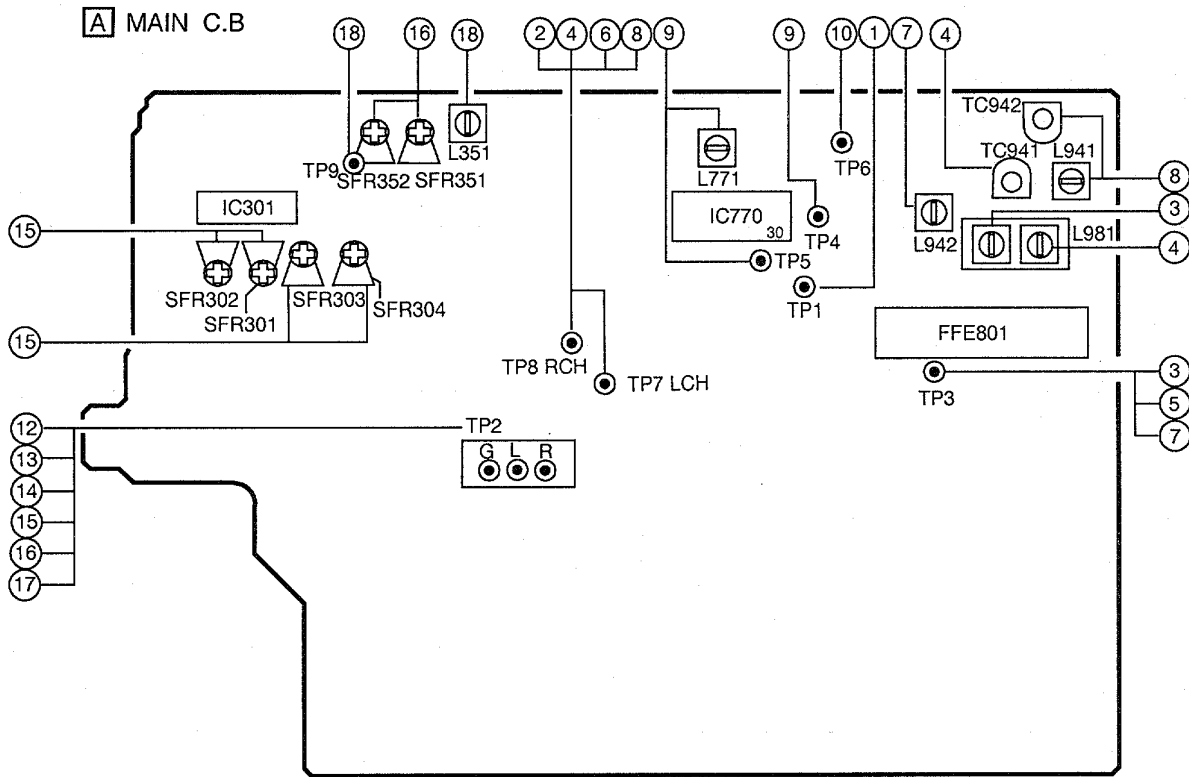
Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/D-SURR	I/O	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	I/O	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	I/O	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	I/O	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	I/O	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/CST 2	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/REB	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/CAM 2	I/O	FL segment P7 output / DECK2 CAM switch data input.
67	P6/AUTO 1	I/O	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/AUTO 2	I/O	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/CAM 1	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/CST 1	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/REA	I/O	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	-	Power supply input.
73	P1/2092	I/O	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	LED/LCK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.(Not used.)
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for Main C.B.
79	DATA	O	DATA output for Main, Front C.B.
80	CLK	O	CLOCK output for Main,Front C.B.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	LED ►►	O	►► LED ON/OFF output.
86	LED ◄◄	O	◄◄ LED ON/OFF output.
87	LED ►	O	► LED ON/OFF output.
88	LED ◄	O	◄ LED ON/OFF output.
89	VSS 2	-	GND.
90	VDD 2	-	Power supply input.
91	LED ■	O	■ LED ON/OFF output.
92	LED	O	LED ON/OFF output.
93	SOL 1	O	DECK 1 Solenoid output.
94	SOL 2	O	DECK 2 Solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/OFF output.
96	I-IFC/I-SUB Q	I	Tune IF count serial data input /CD SUB Q data input.

Pin No.	Pin Name	I/O	Description
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CDCE	O	CD CE output.
100	O-CDCLK	O	CD CLOCK output.

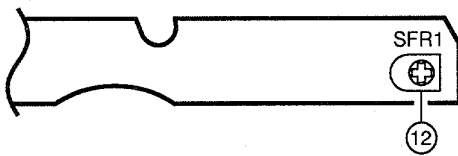
IC, LC72131

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 (LC866548A-5E56) when relevant key is operated. Active "H".																								
5	CL	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866548A-5E56).																								
7	T-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / SW	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 / SW	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	IF-IN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	-	Not used.																								
15	AM-IN	I	Receives the AM local oscillator frequency signal.																								
16	FM-IN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	A-IN	I	The MOS transistor for PLL active low pass filter.																								
20	A-OUT	O																									
21	VSS	-	Ground.																								

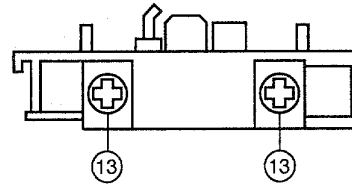
ADJUSTMENT <TUNER / DECK>



F DECK C.B



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



< TUNER SECTION >

1. Clock Check
 Settings : • Test point : TP1
 Method : Set to MW 1710kHz and check that the test point is 2160kHz \pm 0.045kHz.
2. FM Separation Check
 Settings : • Test point : TP7, TP8
 • Input Level : 54dB
 Method : Set to FM 98.0MHz and check that the test point is more than 25 dB
3. MW VT Adjustment
 Settings : • Test point : TP3 (VT)
 • Adjustment location : L981
 Method : Set to MW 1710kHz and adjust L981 so that the test point becomes 8.5V \pm 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.
4. MW Tracking Adjustment
 Settings : • Test point : TP7, TP8
 • Adjustment location :
 L981 600kHz
 TC941 1400kHz
 Method : Set up TC941 to center before adjustment. The level at 600 kHz is adjusted to MAX by L981. Then the level at 1400 kHz is adjusted to MAX by TC941.
5. FM VT Check
 Settings : • Test point : TP3 (VT)
 Method : Set to FM 108.0MHz and check that the test point is less than 8.5V.
 Set to FM 87.5MHz and check that the test point is more than 1.5V.

6. FM Tracking Check
 Settings : • Test point : TP7, TP8
 Method : • Set to FM 98.0MHz and check that the test point is $2 \pm 6\text{dB}$.
7. SW VT Adjustment
 Settings : • Test point : TP3 (VT)
 • Adjustment location : L942
 Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes $7.0\text{V} \pm 0.05\text{V}$.
8. SW Tracking Adjustment (HR)
 Settings : • Test point : TP7, TP8
 • Adjustment location :
 L941 5.9MHz
 TC942 17.9MHz
 Method : Set up TC942 to center before adjustment.
 The level at 5.9MHz is adjust to MAX by L941.
 Then the level at 17.9MHz is adjust to MAX by TC942.
9. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP4, TP5
 • Adjustment location : L771
 • Input level : 54dB
 Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP4 and TP5 becomes $0\text{V} \pm 0.04\text{V}$.
 Next, check that the distortion is less than 1.3%.
10. Auto Stop Level Check
 Settings : • Test point : TP6
 • Input level : adjustable
 Method : Set to FM 98.0 MHz and check that the voltage low about 0.1V. After that voltage high about 7.0V out by 2dB down.
11. Auto Stop Level Check
 MW
 Settings : • Input level : adjustable
 Method : Check auto stop at MW 999kHz and the level is 35 ~ 60 dB.
- FM
 Settings : • Input level : adjustable
 Method : Check auto stop at FM 98.0MHz and the level is $25\text{dB} \pm 10\text{dB}$.
- SW
 Settings : • Input level : adjustable
 Method : Check auto stop at FM 12MHz and the level is less than 60 dB.

< DECK SECTION >

12. Tape Speed Adjustment
 Settings : • Test tape : TTA-100
 • Test point : TP2
 • Adjustment location : SFR1
 Method : Play back the test tape and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.
13. Head Azimuth Adjustment
 Settings : • Test tape : TTA-300
 • Test point : TP2
 • 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.
14. PB Frequency Response Check (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300
 • Test point : TP2
 Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 2dB.
15. PB Sensitivity Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-200
 • Test point : TP2
 • 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 330mV[Deck1], 300 mV[Deck 2].
16. REC/PB Frequency Response Adjustment
 Settings : • Test tape : TTA-602
 • Test point : TP2
 • 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 TP2 becomes 210mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.
17. REC/PB Sensitivity Check
 Settings : • Test tape : TTA-602
 • Test point : TP2
 • Input signal : 1kHz (LINE IN)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP2 becomes 21mV. Record and play back the 1kHz signals and check that the output is $17\text{mV} \pm 3\text{dB}$.
18. Bias OSC Frequency Adjustment
 Settings : • Test point : TP9
 • Adjustment location : L351
 Method : Set to the REC mode. Adjust L351 so that the frequency counter of the test point is $85\text{kHz} \pm 1\text{kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : 4dB \pm 6dB
(THD 3%) [at 87.5 / 98.0MHz / 108.0MHz]
S/N 50dB Quieting sensitivity :

STEREO :
30dB \pm 6dB
[at 87.5 / 98.0 / 108.0MHz]

Signal to noise ratio : MONO :
More than 65dB
[at 98.0MHz]

STEREO :
More than 64dB
[at 83.0MHz]

Distortion : STEREO :
Less than 2%
[at 98.0MHz]

STEREO :
Less than 1.3%
[at 98.0MHz]

Stereo separation : More than 25dB
[at 98.0MHz]

Intermediate frequency : 10.7MHz

<MW SECTION>

Sensitivity : 55dB \pm 5dB
(S/N 20 dB) [at 603kHz]
53dB \pm 5dB
[at 999 / 1404kHz]

Distortion : Less than 1.5%
[at 999kHz]

Intermediate frequency : 450kHz

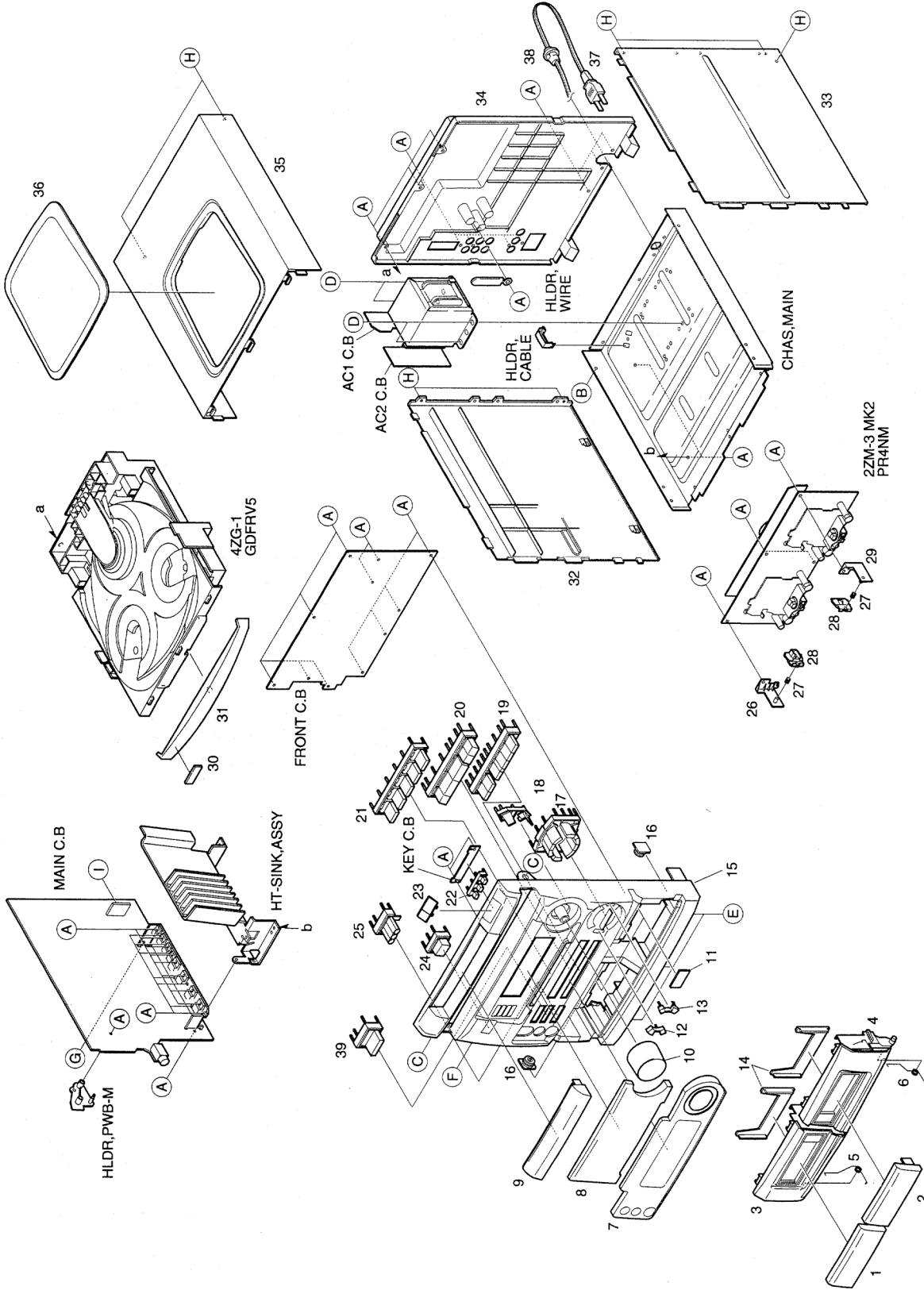
<SW SECTION>

Sensitivity : 38dB \pm 5dB (5.9MHz)
(S/N 20dB) 33dB \pm 5dB (12.0MHz)
30dB \pm 8dB (17.9MHz)
Distortion : Less than 1.5% (12.0MHz)
Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz \pm 45Hz
Wow & flutter : Less than 0.18% (R.M.S)
Take-up torque : 30 ~ 55g-cm (FWD, REV)
F.F & REW torque : 75 ~ 180g-cm (F.F)
75 ~ 130g-cm (REW)
Back tension : 2 ~ 7g-cm (DECK1, DECK2)
PB Output level : 330mV \pm 1dB (DECK1)
300mV \pm 1dB (DECK2)
REC/PB Output level : 180mV \pm 1dB
Distortion (REC/PB) : Less than 2.0% (NORM, CrO2)
Noise level (PB) : Less than 2mV (NORM, DOLBY OFF/
ON B.C)
Less than 1.5mV (CrO2, DOLBY OFF/
ON B.C)
Noise level (REC/PB) : Less than 2mV (NORM, DOLBY OFF/
ON B.C)
Less than 1.5mV (CrO2, DOLBY OFF/
ON B.C)
Crosstalk : More than 60dB (1kHz, NORM)
Channel separation : More than 30dB (1kHz, NORM)
Erasing ratio : More than 60dB (at 125Hz, CrO2)
Test tape : NORM : TTA-602
CrO2 : TTA-615

MECHANICAL EXPLODED VIEW 1 / 1

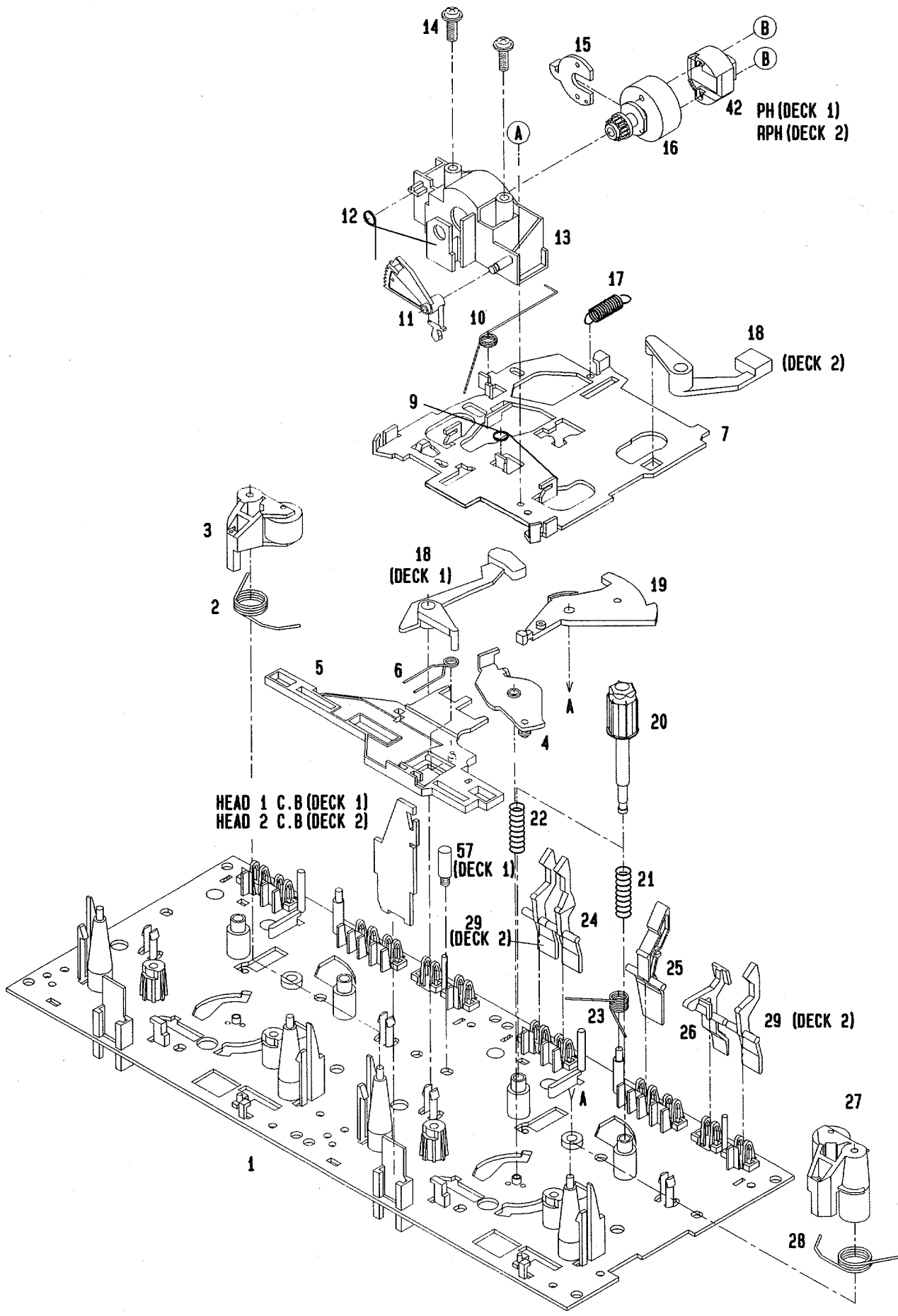


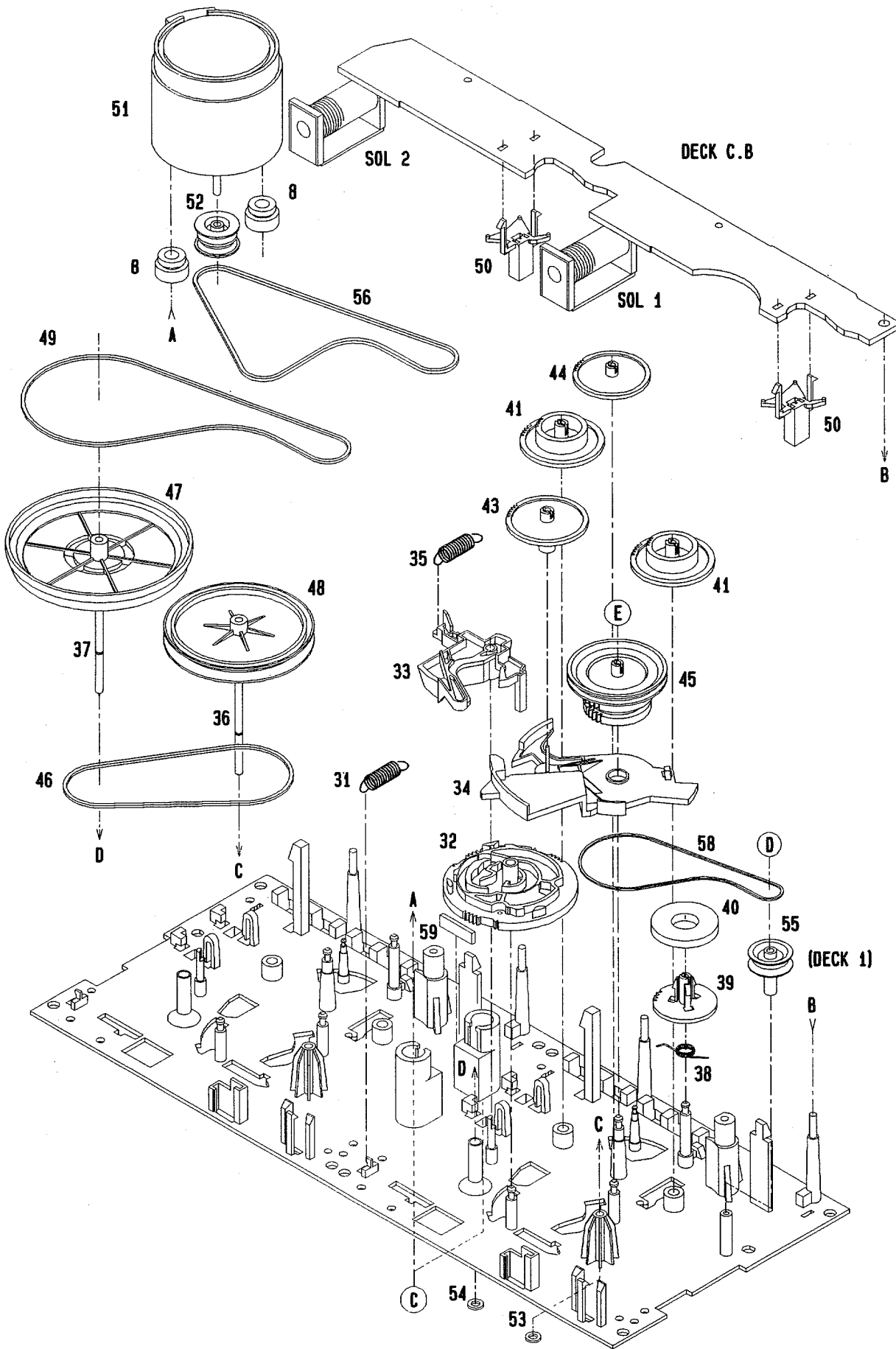
MECHANICAL PARTS LIST 1 / 1

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	87-NF6-041-010		WINDOW,CASS 1	26	87-NF4-216-010		HLDL,LOCK 1
2	87-NF6-042-010		WINDOW,CASS 2	27	82-NF5-228-010		SPR-C,LOCK
3	87-NF6-011-110		BOX,CASS 1H	28	82-NF5-229-010		PLATE,LOCK(*)
4	87-NF6-012-110		BOX,CASS 2H	29	87-NF4-217-010		HLDL,LOCK 2
5	82-NF5-218-010		SPR-T,EJECT 1(SIN)	30	82-NE6-067-010		BADGE,AIWA 30N
6	82-NF5-219-010		SPR-T,EJECT 2(SIN)	31	87-NH6-013-010		PANEL,TRAY H
7	87-NH6-015-010		PANEL,FR H	32	87-NF6-022-010		PANEL,LEFT
8	87-NH6-007-010		WINDOW,DISPLAY H	33	87-NF6-023-010		PANEL,RIGHT
9	87-NF6-043-010		WINDOW,CD	34	87-NH6-027-010		CABI,REAR HCST<HC>
10	87-NF6-036-010		KNOB,RTRY VOL	34	87-NH6-028-010		CABI,REAR HRST<HR>
11	81-532-080-010		LBL,CASS-COMPT	35	87-NF6-021-010		PANEL,TOP
12	87-NF6-040-010		PANEL,T-BASS	36	86-NF6-007-010		WINDOW,TOP
13	87-NF6-039-010		PANEL,BBE	37	87-050-079-010		AC CORD ASSY,E BLK
14	86-NF6-061-010		REFLECTOR,CASS	38	87-085-185-010		BUSHING,AC CORD(E)
15	87-NF6-001-010		CABI,FR H	39	87-NH6-018-110		KEY,PBC H
16	87-063-165-010		OIL-DMPR,150	A	87-067-703-010		BVT2+3-10 W/O SLOT
17	87-NF6-026-010		KEY,CURSOR H	B	87-721-096-410		QT2+3-10 W/O SLOT
18	87-NF6-028-110		KEY,MIC	C	87-721-097-410		QT2+3-12 W/O SLOT
19	87-NF6-032-010		KEY,REC H	D	87-078-019-010		S-SCREW,IT+4-6 SWCH12A
20	87-NF6-049-010		KEY,ASSY PLAY	E	87-067-688-010		BVTT+3-6
21	87-NF6-029-010		KEY,FUNCTION	F	87-723-096-410		QT2+3-10 W/O SLOT BLK
22	87-NF6-045-010		KEY,DISC	G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
23	87-NF6-024-010		KEY,CD	H	87-B10-091-010		UTT2+3-10 W/O SLOT BLK
24	87-NF6-025-010		KEY,POWER	I	87-067-579-010		BVT2+3-8 W/O SLOT
25	87-NH6-019-010		KEY,CON				

TAPE MECHANISM EXPLODED VIEW 1 / 1



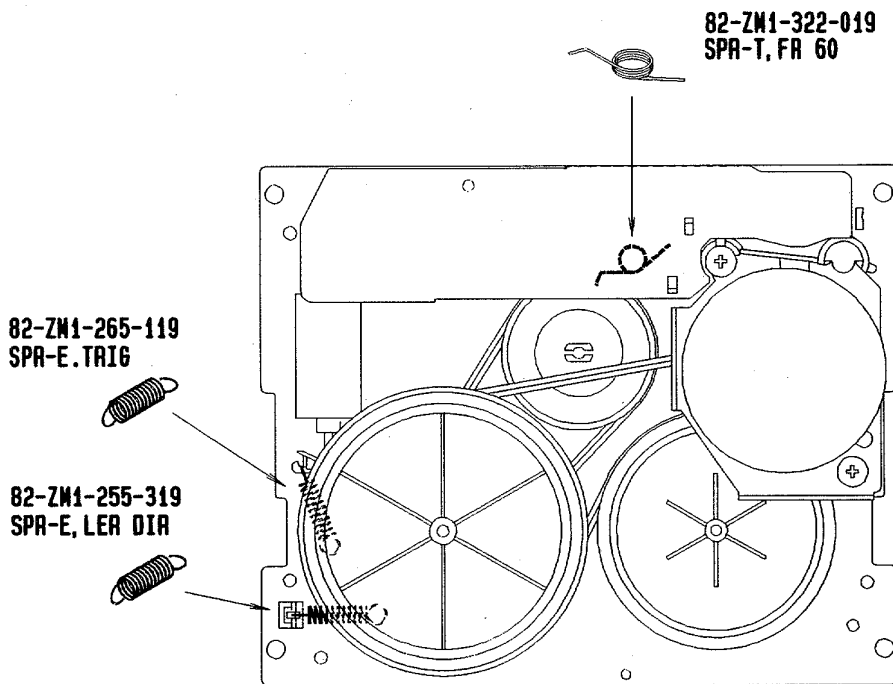
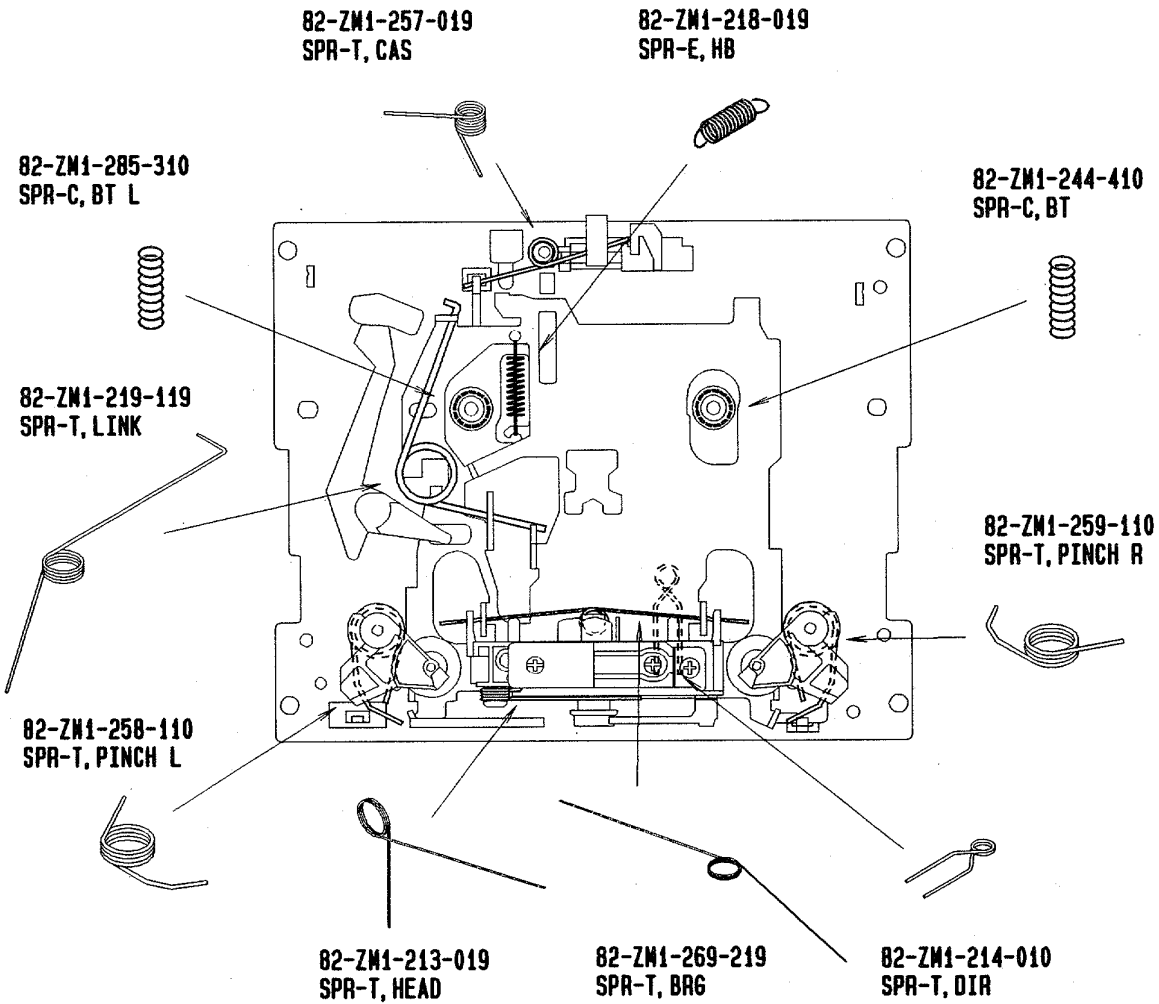


TAPE MECHANISM PARTS LIST 1 / 1

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	35	82-ZM1-265-119		SPR-E,TRIG
2	82-ZM1-258-110		SPR-T,PINCH L	36	82-ZM1-236-019		CAPSTAN N 2-41.5
3	82-ZM1-341-110		LVR ASSY,PINCH L2	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE,LINK 2	38	82-ZM1-322-019		SPR-T,FR60
5	82-ZM1-266-11K		LVR,DIR	39	82-ZM1-220-219		GEAR,IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	82-ZM3-616-019		RING MAGNET 4
7	82-ZM1-206-81K		CHAS,HEAD	41	82-ZM1-216-31K		GEAR,REEL
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-A90-319-010		HEAD,PH HADKH2 FPC
9	82-ZM1-269-219		SPR-T,BRG	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
10	82-ZM1-219-119		SPR-T,LINK	43	82-ZM1-225-21K		GEAR,FR
11	82-ZM1-210-119		GEAR,H T	44	82-ZM1-226-019		GEAR,REW
12	82-ZM1-213-019		SPR-T,HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
13	82-ZM1-207-619		GUIDE,TAPE	46	82-ZM1-338-010		BELT FR4
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	50	82-ZM1-245-210		HLDR,IC
19	82-ZM1-222-21K		LVR,PLAY	51	87-045-347-019		MOT,SHU2L 70(M1)
20	82-ZM1-217-319		REEL TABLE	52	82-ZM3-221-010		PULLEY,MOT 2M
21	82-ZM1-244-510		SPR-C,BT	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
23	82-ZM1-257-019		SPR-T,CAS	55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
24	82-ZM1-241-319		LVR,MC	56	82-ZM3-337-010		BELT,SBU MOT 2
25	82-ZM1-242-019		LVR,CAS	57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
26	82-ZM1-243-019		LVR,STOP	58	86-ZM1-206-010		BELT,MAIN L
27	82-ZM1-344-110		LVR ASSY,PINCH R2	59	82-ZM3-340-010		SH,BELT D2
28	82-ZM1-259-110		SPR-T,PINCH R	A	85-ZM3-202-010		S-SCREW,TG
29	82-ZM1-240-11K		LVR,REC (DECK 2)	B	80-ZM6-207-019		V+1.6-7
31	82-ZM1-255-319		SPR-E,LVR DIR	C	82-ZM3-318-019		S-SCRW MOTOR M2
32	82-ZM3-305-01K		GEAR,CAM M2	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
33	82-ZM1-227-21K		LVR,TRIG	E	82-ZM3-334-010		PW,2.16-6-0.4
34	82-ZM3-306-11K		LVR,FR M2				

SPRING APPLICATION POSITION

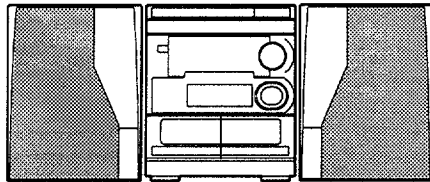




aiwa



NSX-K550



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 YPR4NM
- BASIC CD MECHANISM : 4ZG-1 VSGDNM

• TYPE : HE

SUPPLEMENT

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-K550	CX - NK550	SX - ANS70	RC UNIT, 7AS07

- This Service Manual contains information about the difference between NSX-K550 (HE) and NSX-K550 (HR). If requiring the other information, see Service Manual of NSX-K550 (HR,HC). (S/M Code No 09-976-199-7FE)
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-977-206-10T.

SPECIFICATIONS

<FM Tuner section>

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

<MW Tuner section>

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

<SW Tuner section>

Tuning range 5.900 MHz ~ 17.900 MHz
Antenna Wire antenna

<Amplifier section>

***Power output** Rated : 100 W + 100 W
 (6 ohms, T.H.D. 1 %, 1 kHz)
 Reference : 120 W + 120 W
 (6 ohms, T.H.D. 10 %, 1 kHz)
 *without connecting to the
 SURROUND SPEAKERS
Total harmonic distortion 0.05 % (70 W, 1 kHz, 6 ohms,
 DIN AUDIO)
Inputs VIDEO /AUX : 210 mV (adjustable)
 MD : 210 mV (adjustable)
 MIC : 1.4 mV (10 kohms)
Outputs LINE OUT : 200 mV
 VIDEO OUT: 1.0Vp-p (75 ohms)
 SUPER WOOFER : 2.7 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
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 ($\lambda = 780$ nm)
D-A converter 1 bit dual
Signal-to-noise ratio 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.05% (1 kHz, 0 dB)
Wow and flutter Unmeasurable
Video signal NTSC/PAL color format
 (selectable)
Video data MPEG1
Audio data MPEG1, LAYER2:

<Speaker system SX-ANS70>

Cabinet type 4 way, bass reflex with surround
 speaker (magnetic sealed type)
Speakers Woofer :
 160 mm cone type
 Tweeter :
 50 mm cone type
 Super tweeter :
 20 mm ceramic type
 Cardioid speaker :
 80 mm cone type
 Surround speaker :
 80 mm cone type
Impedance Front speaker : 6 ohms
 Surround speaker : 16 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 250 x 310 x 280 mm
Weight 4.5 kg
<General>
Power requirements 120 V/ 220 - 230 V/ 240 V AC,
 switchable ,50/60 Hz
Power consumption 140 W
Dimensions of main unit 260 x 309 x 346 mm
(W x H x D)
Weight of main unit 7.2 kg

- Design and specifications are subject to change without notice.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

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

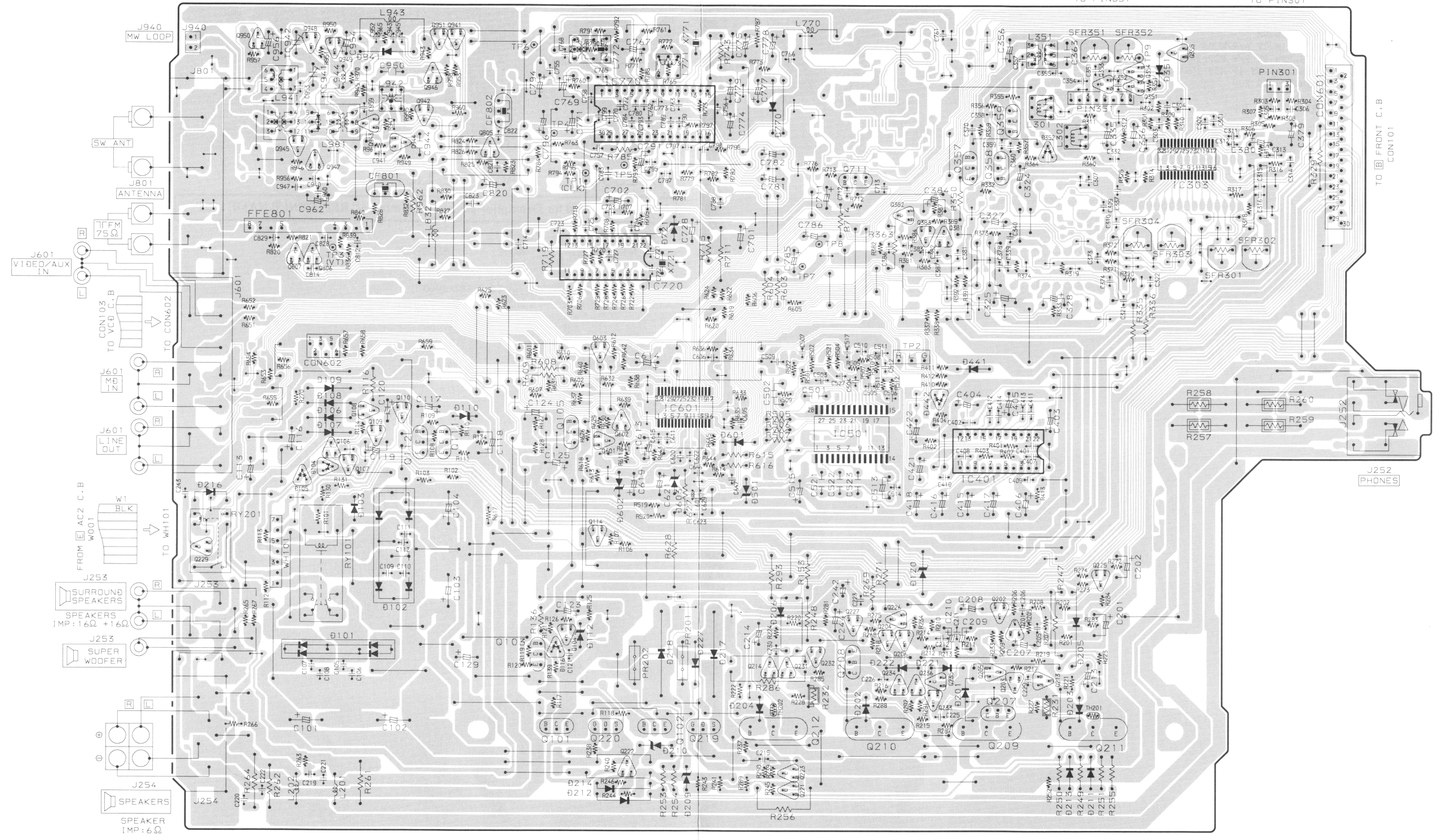
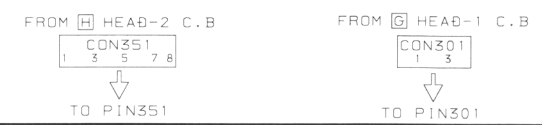
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	87-NH4-610-110		IC,LC866548A-5F60
	87-A20-783-040		C-IC,BA7762AFS

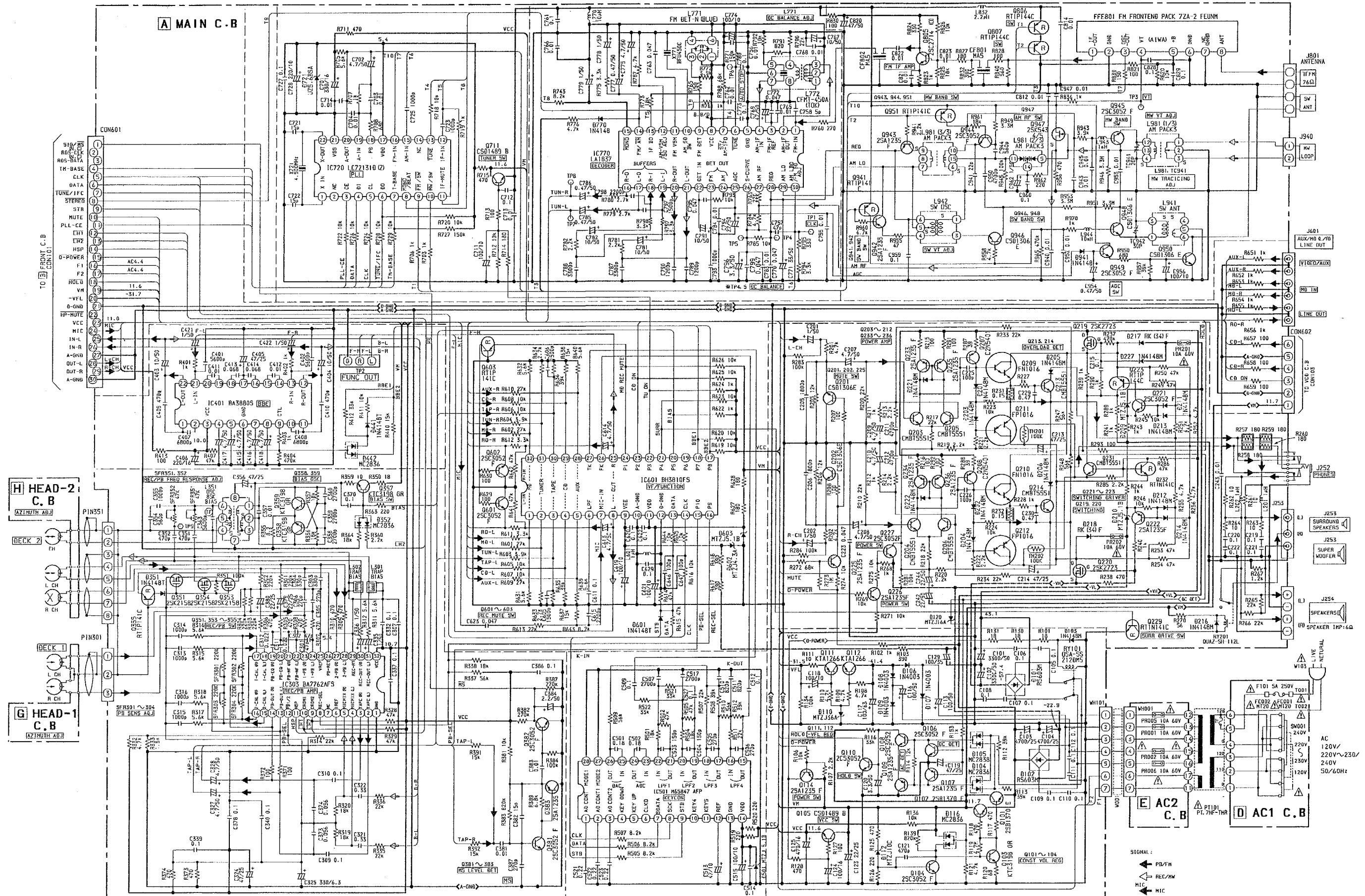
IC

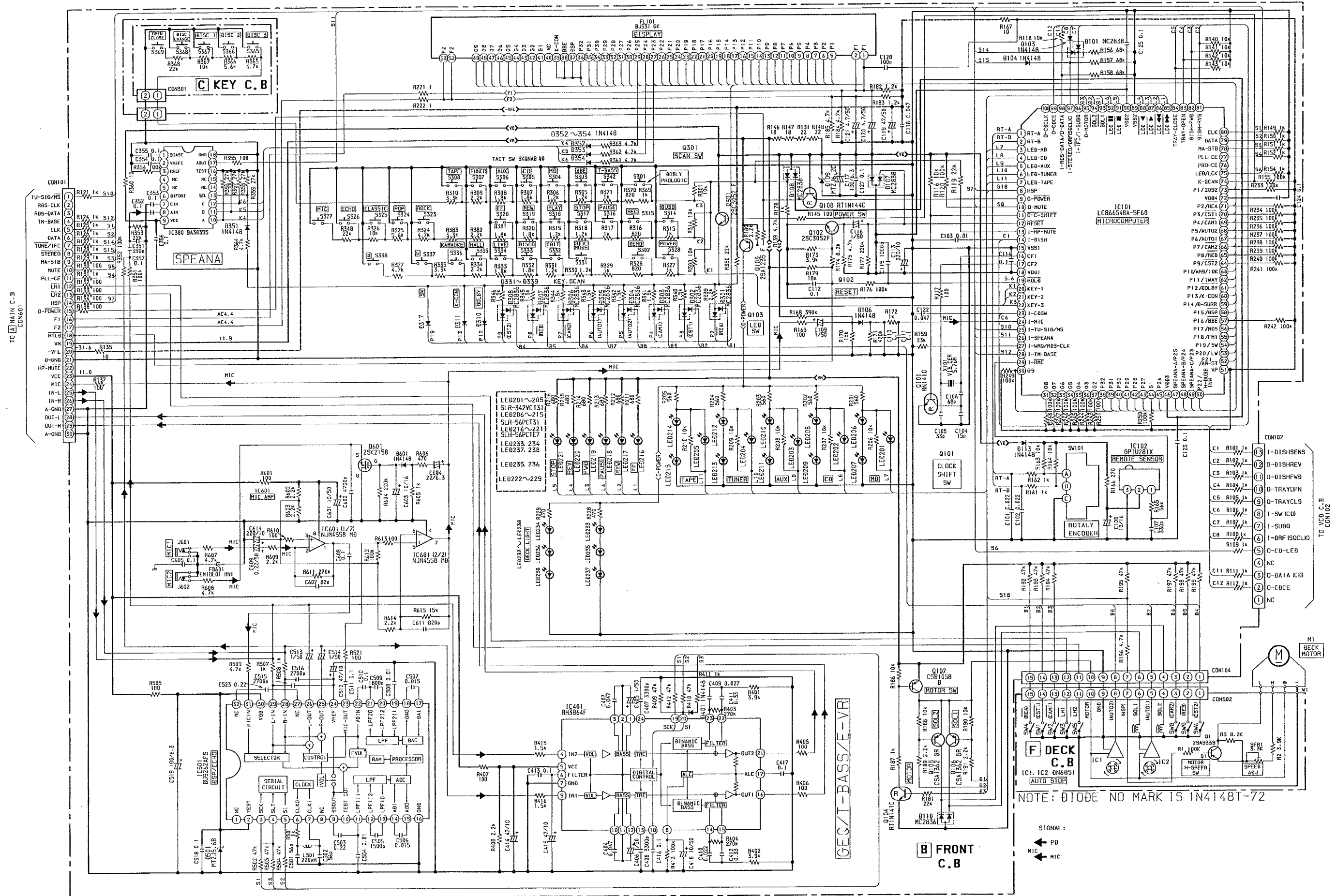
MAIN C.B

FFE801	A8-7ZA-290-030	7ZA-2 FEUNM
J253	87-A60-401-010	JACK,PIN 3P B/R/W HS
J601	87-A60-402-010	JACK,PIN 6P R/W HSP-246V30
J801	87-033-239-010	TERMINAL,ANT 4P MSP-154V-02
TC941	87-011-220-080	TRIMMER,CER 20P
TC942	87-011-221-080	TRIMMER,CER 30P

A MAIN C.B



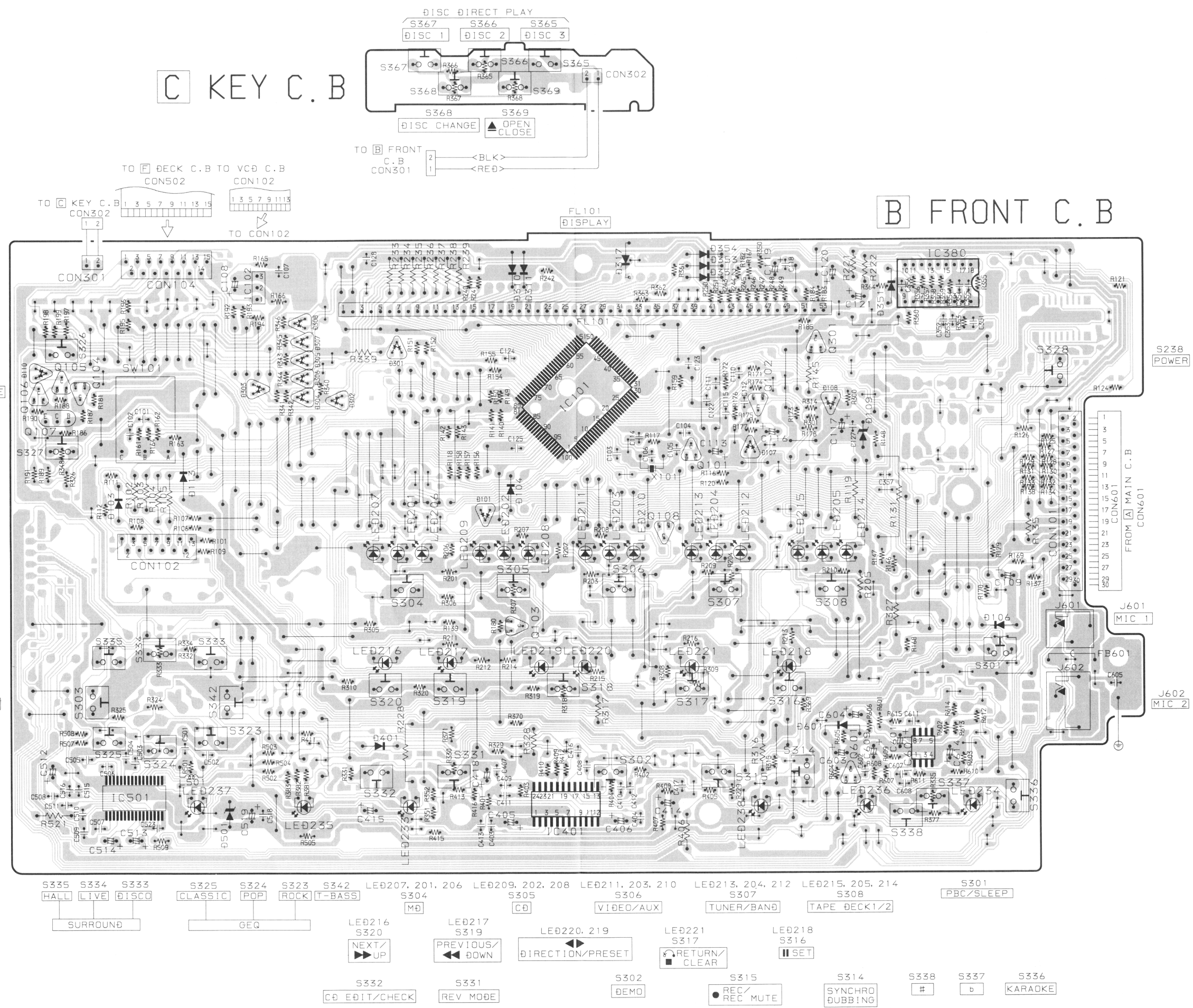




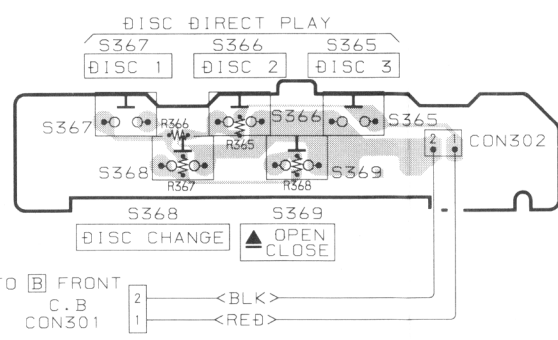
NOTE: DIODE - NO MARK IS 1N4148T-72

SIGNAL:
 ← PB
 ← MIC

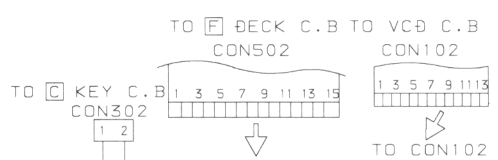
B FRONT C.B.



C KEY C.B



B FRONT C.B



S328 POWER

J601 MIC 1

J602 MIC 2

- S335 HALL
- S334 LIVE
- S333 DISCO
- S325 CLASSIC
- S324 POP
- S323 ROCK
- S342 T-BASS
- LED207, 201, 206
- LED209, 202, 208
- LED211, 203, 210
- LED213, 204, 212
- LED215, 205, 214
- S301 PBC/SLEEP
- S304 MD
- S305 CD
- S306 VIDEO/AUX
- S307 TUNER/BAND
- S308 TAPE DECK 1/2
- SURROUND
- GEQ
- LED216 S320 NEXT/UP
- LED217 S319 PREVIOUS/DOWN
- LED220, 219 S317 DIRECTION/PRESET
- LED221 S316 RETURN/CLEAR
- LED218 S316 SET
- S332 CD EDIT/CHECK
- S331 REV MODE
- S302 DEMO
- S315 REC/REC MUTE
- S314 SYNCHRO DUBBING
- S338 #
- S337 b
- S336 KARAOKE