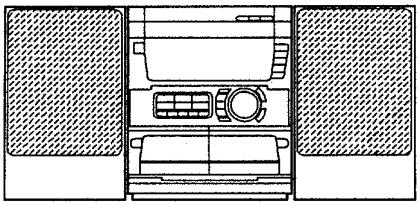
aiwa

aiwa SERVICE

NSX-MT70
NSX-MT75
NSX-AV85



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM / YPR4NM
- BASIC CD MECHANISM : 4ZG-1 Z1DNM / Z1MD
- TYPE : 70U,75U, 85(EZ,LH,HE)

SYSTEM	CD CASSEIVER	SPEAKER	SUB WOOFER	REMOTE CONTROLLER
NSX-MT70	CX-NMT70 (TYPE : U)	SX-NA74 SX-R210 SX-C400	TS-W35 (OPTIONAL)	RC - 7AS08
NSX-MT75			TS-W35	
NSX-AV85	CX-NAV85 (TYPE : EZ,HE)	SX-NAV85 SX-CR423	-	
	CX-NAV85 (TYPE : LH)	SX-NAV85 SX-R270 SX-C600		

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T.

SERVICE MANUAL

S/M Code No. 09-976-186-6FP

TABLE OF CONTENTS

SPECIFICATIONS <NSX-MT70 U AND NSX-MT75 U>

<FM Tuner section>

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

<MW Tuner section>

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

<Amplifier section>

Power output	**Front** 100 W + 100 W (50 Hz - 20 kHz, T.H.D.less than 1%, 6 ohms) **Rear (Surround)** 10 W + 10 W (1 kHz,T.H.D.less than 1%, 16 ohms) **Center** 20 W (1 kHz,T.H.D.less than 1%, 8 ohms)
Total harmonic distortion	0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.4 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NA74>

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm ($6^3/_8$ in.) cone type Tweeter : 80 mm ($3^1/_4$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	243 x 304 x 227mm ($9^5/_8$ X 12 X 9 in.)
Weight	3.6 kg (7 lbs 15 oz.)

<General>

Power requirements	120 VAC, 60 Hz
Power consumption	140 W
Dimensions of main unit	260 x 309 x 363 mm ($10^1/_4$ X $12^1/_4$ X $14^3/_8$ in.)
Weight	10 kg (22 lbs 1 oz.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS (NSX-AV85 LH,HE>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	15.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

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

<Amplifier section>

Power output	**Front** 150 W + 150 W (6 ohms, T.H.D.10%, 1kHz) **Rear (Surround)** 12.5 W + 12.5 W (16 ohms, T.H.D.10%, 1kHz) **Center** 25 W (8 ohms,T.H.D.10%, 1kHz)
Total harmonic distortion	0.05% (100 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NAV85>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 304 x 250 mm
Weight	4.4 kg

<General>

Power requirements	120 V/220-230V/240 V AC switchable, 50/60 Hz
Power consumption	185 W
Dimensions of main unit	260 x 309 x 370 mm
Weight of main unit	10.6 kg

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SPECIFICATIONS (NSX-AV85 EZ)

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

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

<LW Tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** Rated 100 W + 100 W (6 ohms, T.H.D.1%, 1kHz/DIN 45500) Reference : 125W + 125W (6 ohms, T.H.D 10%, 1kHz/DIN 45324) DIN MUSIC POWER: 210W + 210W **Surround (Rear)** Rated 10 W + 10 W (16 ohms, T.H.D.1%, 1kHz/DIN 45500) Reference : 12.5 W + 12.5 W (16 ohms,T.H.D. 10%, 1kHz/DIN 45324) DIN MUSIC POWER : 25W + 25 W **Center** Rated 20 W (8 ohms,T.H.D.1%, 1kHz/DIN 45500) Reference: 25 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER 50 W
Total harmonic distortion	0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.4 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NAV85>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 304 x 250 mm
Weight	4.4 kg

<General>

Power requirements	230 VAC, 50 Hz
Power consumption	180 W
Dimensions of main unit (W x H x D)	260 x 309 x 363 mm
Weight of main unit	10.5 kg

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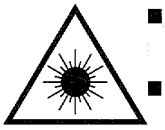
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

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

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer 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.

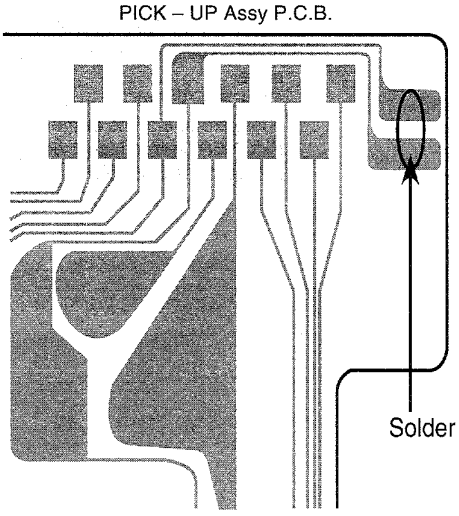
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

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 right figure.



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-NF4-642-010		IC,LC866548V-5E54
	87-070-083-010		IC,GPIU181X
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-056-010		IC,BA3880S
	87-070-289-040		IC,BU2092F
	87-A20-456-040		C-IC,BH3810FS
	87-017-888-080		C-IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
	87-A20-440-040		C-IC,BU1920FS<EZ>
	87-A20-453-010		C-IC,NJM1102B
	87-A20-613-040		C-IC,BU9262AFS
	87-A20-452-040		C-IC,TC9260FS
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	89-213-702-010		TR,2SB1370E
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-026-610-080		TR,KTC3198GR
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-085-070		C-TR,CSA1362GR
	87-A30-083-080		TR,CSD1489B
	87-A30-084-080		TR,CSB1058B
	87-A30-071-080		C-TR,RT1N 144C
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-106-070		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(O)
	89-505-434-540		C-FET,2SK543-TB(4/5)<EZ>
	87-A30-112-080		TR,C2N5551
	89-420-612-010		TR,2SD2061 (2W)
	87-026-232-080		TR,DTA144WK
DIODE			
	87-017-437-080		DIODE,1N4148M
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-205-080		ZENER,UZ6.2BSC
	87-A40-211-080		ZENER,UZ36BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-202-080		ZENER,UZ5.1BSB
	87-070-178-090		DIODE,IN5402-BD54
	87-A40-246-080		DIODE,1N4148T-72
	87-017-481-080		ZENER,UZ-5.6BSB
	87-A40-192-080		ZENER,UZ4.3BSA
	87-A40-239-080		ZENER,UZ5.6BSA
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-115-060		DIODE,RS603M
	87-A40-116-060		DIODE,RS403L-B-D-51
	87-A40-186-080		ZENER,UZ5.1BSC
MAIN C.B			

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-A10-059-090		CAP,E 3300-75
C102	87-A10-059-090		CAP,E 3300-75
C103	87-016-658-090		CAP,E 4700-35 M SMG
C104	87-016-658-090		CAP,E 4700-35 M SMG
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-012-368-080		C-CAP,S 0.1-50 Z F
C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C110	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
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C113	87-010-247-080		CAP,E 100-50 SME<U>
C114	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C115	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C116	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C116	87-010-247-080		CAP,E 100-50 SME<U>
C117	87-010-430-080		CAP,E 100-63
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 M SME<U>
C123	87-010-247-080		CAP,E 100-50 M SME
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C126	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C127	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C129	87-010-393-080		CAP,E 100-35 M SME
C200	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C201	87-010-400-080		CAP,E 0.47-50 M SME
C202	87-010-400-080		CAP,E 0.47-50 M SME
C205	87-010-181-080		C-CAP,S 1800P-50 K B
C206	87-010-181-080		C-CAP,S 1800P-50 K B
C207	87-010-404-080		CAP,E 4.7-50 M SME
C208	87-010-404-080		CAP,E 4.7-50 M SME
C209	87-010-404-080		CAP,E 4.7-50 M SME
C210	87-010-404-080		CAP,E 4.7-50 M SME
C211	87-010-186-080		C-CAP,S 4700P-50 K B
C212	87-010-186-080		C-CAP,S 4700P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F
C219	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C219	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C220	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C220	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C221	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C221	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C222	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C222	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C223	87-010-194-080		C-CAP,S 0.047-25 Z F<EXCEPT EZ>
C225	87-A10-516-080		C-CAP,S 100P-200 J CH
C226	87-A10-516-080		C-CAP,S 100P-200 J CH
C227	87-018-134-080		CAP,TC U 0.01-16NYUP050<EZ>
C228	87-018-131-080		CAP,TC U 1000P-50KB <EZ>
C229	87-016-461-080		C-CAP,S 0.47-16 ZF
C230	87-016-461-080		C-CAP,S 0.47-16 ZF
C231	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
C232	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
C235	87-010-213-080		CAP,S 0.015-25 K B<EZ>
C236	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C237	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C238	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C239	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
C240	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
C242	87-010-406-080		CAP,E 22-50 M SME
C243	87-010-197-080		C-CAP,S 0.01-25 K B
C244	87-010-406-080		CAP,E 22-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C301	87-010-318-080		C-CAP,S 47P-50 J CH
C302	87-010-318-080		C-CAP,S 47P-50 J CH
C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
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	87-010-178-080		C-CAP,S 1000P-50 K B
C316	87-010-178-080		C-CAP,S 1000P-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
C328	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
C335	87-010-401-080		CAP,E 1-50 M SME
C336	87-010-401-080		CAP,E 1-50 M SME
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
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL
C355	87-010-178-080		C-CAP,S 1000P-50 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
C358	87-010-183-080		C-CAP,S 2700P-50 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B
C360	87-010-183-080		C-CAP,S 2700P-50 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C371	87-010-179-080		C-CAP,S 1200P-50 K B
C372	87-010-179-080		C-CAP,S 1200P-50 K B
C373	87-010-179-080		C-CAP,S 1200P-50 K B
C374	87-010-179-080		C-CAP,S 1200P-50 K B
C375	87-010-545-080		CAP,E 0.22-50 M SME
C376	87-010-545-080		CAP,E 0.22-50 M SME
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C381	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-318-080		C-CAP,S 47P-50 J CH
C383	87-010-197-080		C-CAP,S 0.01-25 K B
C384	87-010-402-080		CAP,E 2.2-50 M SME
C385	87-010-184-080		C-CAP,S 3300P-50 K B
C386	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
C401	87-010-187-080		C-CAP,S 5600P-50 K B
C402	87-010-187-080		C-CAP,S 5600P-50 K B
C403	87-010-405-080		CAP,E 10-50 M SME
C404	87-010-405-080		CAP,E 10-50 M SME
C405	87-010-260-080		CAP,E 47-25 SME
C406	87-010-101-080		CAP,E 220-16 SME
C407	87-010-188-080		C-CAP,S 6800P-50 K B
C408	87-010-188-080		C-CAP,S 6800P-50 K B
C409	87-012-140-080		C-CAP,S 470P-50 J CH
C410	87-012-140-080		C-CAP,S 470P-50 J CH
C411	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
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
C415	87-010-404-080		CAP,E 4.7-50 M SME
C416	87-010-404-080		CAP,E 4.7-50 M SME
C417	87-010-404-080		CAP,E 4.7-50 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
C422	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C601	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C602	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C605	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT EZ>
C606	87-010-180-080		C-CAP,S 1500P-50 K B
C609	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C610	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C611	87-016-081-080		C-CAP,S 0.1-16 KR
C613	87-010-404-080		CAP,E 4.7-50 M SME
C614	87-010-404-080		CAP,E 4.7-50 M SME
C615	87-010-183-080		C-CAP,S 2700P-50 K B<EZ>
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	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
C629	87-012-368-080		C-CAP,S 0.1-50 FZ
C630	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C631	87-015-785-080		C-CAP, 0.1-25 ZF<EZ>
C632	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C633	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C636	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C637	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C646	87-010-322-080		C-CAP,S 100P-50 J CH
C647	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
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
C704	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
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
C715	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C721	87-010-312-080		C-CAP,S 15P-50 J CH
C722	87-010-312-080		C-CAP,S 15P-50 J CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
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
C728	87-010-248-080		CAP,E 220-10 SME
C755	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
C757	87-010-318-080		C-CAP,S 47P-50 J CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C762	87-010-197-080		C-CAP,S 0.01-25 K B
C763	87-010-194-080		C-CAP,S 0.047-25 Z F
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
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 K B
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-404-080		CAP,E 4.7-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B<EXCEPT HE>
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C781	87-010-405-080		CAP,E 10-50 M SME
C782	87-010-405-080		CAP,E 10-50 M SME
C783	87-015-819-080		C-CAP,0.01-50 K B
C784	87-010-197-080		C-CAP,S 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C785	87-010-400-080		CAP,E 0.47-50 M SME
C786	87-010-400-080		CAP,E 0.47-50 M SME
C787	87-010-184-080		C-CAP,S 3300P-50 K B
C788	87-010-184-080		C-CAP,S 3300P-50 K B
C789	87-010-179-080		C-CAP,S 1200P-50 K B
C790	87-010-179-080		C-CAP,S 1200P-50 K B
C791	87-010-405-080		CAP,E 10-50 M SME
C793	87-010-178-080		C-CAP,S 1000P-50 KB<EXCEPT EZ>
C793	87-012-156-080		C-CAP,S 220P-50 J CH GRM<EZ>
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 K R
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C797	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>
C798	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C798	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>
C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C812	87-010-197-080		C-CAP,S 0.01-25 K B
C814	87-010-197-080		C-CAP,S 0.01-25 K B
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C822	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C828	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
C859	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C861	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>
C862	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>
C863	87-012-140-080		C-CAP,S 470P-50 J CH<EZ>
C864	87-010-405-080		CAP,E 10-50 M SME<EZ>
C865	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C866	87-010-405-080		CAP,E 10-50 M SME<EZ>
C867	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C868	87-010-316-080		C-CAP,S 33P-50 J CH<EZ>
C869	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>
C940	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C941	87-010-314-080		C-CAP,S 22P-50 J CH<HE>
C942	87-010-151-080		C-CAP,S 7P-50 D CH<EZ>
C943	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C944	87-014-051-080		CAP,PP 560P-100 J <HE>
C945	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C947	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C949	87-014-049-080		CAP,PP 470P-100 J<EZ>
C950	87-014-073-080		CAP,PP 4700P-100 J <HE>
C952	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C953	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C954	87-010-400-080		CAP,E 0.47-50 M SME<HE>
C956	87-010-263-080		CAP,E 100-10 M SME<HE>
C957	87-010-311-080		C-CAP,S 12P-50 J CH<EZ>
C958	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
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
C961	87-010-152-080		C-CAP,8P-50 D CH<U,LH>
C962	87-010-401-080		CAP,E 1-50 M SME<EZ,HE>
CF801	87-008-261-010		FLTR,CFSFE10.7MA5<EXCEPT EZ>
CF801	87-008-423-010		FLTR,IFSFE10.7MS3G-A<EZ>
CF802	87-008-261-010		FLTR,CFSFE10.7MA5<EXCEPT EZ>
CF802	82-785-747-010		CF,MS2 GHY,R<EZ>
FB301	87-008-372-080		FLTR,EMIBL01 RN1<EZ>
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM<USTNM,LHSTNM,HESTNM>
FFE801	A8-7ZA-291-030		7ZA-2 YFEUNM<UST,LHST,HEST>
FFE801	A8-6ZA-195-030		6ZA-1 YFEENM<EZSTNE>
FFE801	A8-6ZA-191-030		6ZA-1 FEENM<EZSTNM>
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-A60-413-010		JACK,PIN 1P BLK YKC21-3466
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835
J801	87-A60-202-010		TERMINAL,ANT4PMSP-154V-02 <EXCEPT EZ>
J801	87-A60-427-010		TERMINAL,ANT PAL 2P YKD3<EZ>
J940	81-754-629-010		CONNECTOR,XH 2P(UL)<HE>
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1UH
L770	87-005-849-080		COIL,10UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)<HE>
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)<EXCEPT HE>
L850	87-005-847-080		COIL,2.2UH K CECS<EZ>
L832	87-005-847-080		COIL,2.2UH K CECS
L791	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
L791	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
L792	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
L792	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
L941	87-A50-022-010		COIL,ANT SW (COI) 7.96MHZ<HE>
L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ>
L942	87-A50-019-010		COIL,OSC LW (COI)856KHZ<EZ>
L942	87-A50-173-010		COIL,OSC SW-N (COI)<HE>
L943	87-005-372-080		COIL,1UH (K)LAL03<HE>
L944	87-A50-159-010		COIL,10UH K C2B<HE>
L981	86-NF4-666-010		COIL,AM PACK3(TOK)<HE>
L981	86-NF4-650-010		COIL,AM PACK 4N(TOM)<U,LH>
L981	86-NF4-668-010		COIL,AM PACK 2(TOM)<EZ>
⚠ PR201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR202	87-026-691-080		FUSE,10A 125 251<U>
⚠ PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
R123	87-022-200-080		RES,M/F 0.56-1W J<EXCEPT EZ>
R231	87-A00-262-080		RES,M/F 0.15-2W J
R232	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
SFR301	87-024-435-080		SFR,33K H RH063MC
SFR302	87-024-435-080		SFR,33K H RH063MC
SFR303	87-024-435-080		SFR,33K H RH063MC
SFR304	87-024-435-080		SFR,33K H RH063MC
SFR305	87-024-436-080		SFR,47K H RH063MC
SFR306	87-024-436-080		SFR,47K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9<HE>
TC942	87-011-221-080		TRIMMER,CER 30P 6.15X5.9<HE>
TC942	87-011-253-080		TRIMMER,30P LAK<EZ>
TH201	87-A90-221-080		C-THMS,100K<EXCEPT U>
TH202	87-A90-221-080		C-THMS,100K<EXCEPT U>
W1	85-NF5-628-010		F-CABLE,7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CER 450.0KHZ BFU C<HE>
X850	87-KT1-608-010		X,TAL 4.332MHZ<EZ>

FRONT C.B

C103	87-010-197-080		C-CAP,S 0.01-25 K B
C104	87-010-312-080		C-CAP,S 15P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH
C106	87-010-320-080		C-CAP,S 68P-50 J CH
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C108	87-010-560-040		CAP,E 10-50 M 5L MA
C109	87-010-401-040		CAP,E 1-50 M SME
C110	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
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-A10-189-040		CAP,E 220-10 M
C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C115	87-010-178-080		C-CAP,S 1000P-50 K B
C116	87-010-494-040		CAP,E 1-50 5L SRE

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C117	87-010-555-040		CAP,E 100-10 5L SRE
C118	87-010-194-080		C-CAP,S 0.047-25 Z F
C119	87-010-408-040		CAP,E 47-50 M SME
C120	87-010-404-040		CAP,E 4.7-50 SME
C121	87-010-404-040		CAP,E 4.7-50 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
C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C125	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C128	87-010-178-080		C-CAP,S 1000P-50 K B
C201	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
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
C357	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-NF5-611-010		FL,BJ530GK 7NF-5
J601	87-A60-284-010		JACK,3.5MO (MSC)
J602	87-A60-284-010		JACK,3.5MO (MSC)
LED201	87-A40-317-080		LED,SLR-342VCT31 RED
LED202	87-A40-317-080		LED,SLR-342VCT31 RED
LED203	87-A40-317-080		LED,SLR-342VCT31 RED
LED204	87-A40-317-080		LED,SLR-342VCT31 RED
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-316-080		LED,SLR-56PCT31 GRN
LED207	87-A40-316-080		LED,SLR-56PCT31 GRN
LED208	87-A40-316-080		LED,SLR-56PCT31 GRN
LED209	87-A40-316-080		LED,SLR-56PCT31 GRN
LED210	87-A40-316-080		LED,SLR-56PCT31 GRN
LED211	87-A40-316-080		LED,SLR-56PCT31 GRN
LED212	87-A40-316-080		LED,SLR-56PCT31 GRN
LED213	87-A40-316-080		LED,SLR-56PCT31 GRN
LED214	87-A40-316-080		LED,SLR-56PCT31 GRN
LED215	87-A40-316-080		LED,SLR-56PCT31 GRN
LED216	87-A40-263-080		LED,SLH-56PCT31 GRN
LED217	87-A40-263-080		LED,SLH-56PCT31 GRN
LED218	87-A40-263-080		LED,SLH-56PCT31 GRN
LED219	87-A40-263-080		LED,SLH-56PCT31 GRN
LED220	87-A40-263-080		LED,SLH-56PCT31 GRN
LED221	87-A40-263-080		LED,SLH-56PCT31 GRN
LED222	87-A40-266-080		LED,SLH-56VCT31 RED
LED223	87-A40-266-080		LED,SLH-56VCT31 RED
LED224	87-A40-266-080		LED,SLH-56VCT31 RED
LED225	87-A40-266-080		LED,SLH-56VCT31 RED
LED226	87-A40-266-080		LED,SLH-56VCT31 RED
LED227	87-A40-266-080		LED,SLH-56VCT31 RED
LED228	87-A40-266-080		LED,SLH-56VCT31 RED
LED229	87-A40-266-080		LED,SLH-56VCT31 RED
LED233	87-A40-265-010		LED,SLH-56PCL GRN
LED234	87-A40-265-010		LED,SLH-56PCL GRN
LED235	87-A40-267-010		LED,SLH-56VCL RED
LED236	87-A40-267-010		LED,SLH-56VCL RED
LED237	87-A40-265-010		LED,SLH-56PCL GRN
LED238	87-A40-265-010		LED,SLH-56PCL GRN
LED239	87-A40-266-080		LED,SLH-56VCT31 RED
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S319	87-A90-095-080		SW,TACT EVQ11G04M
S320	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S336	87-A90-095-080		SW,TACT EVQ11G04M
S339	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S340	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S341	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
CD KEY C.B			
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
FAN C.B			
	87-A90-463-010		FAN,2408 NL<LH,HE>
C130	87-010-401-080		CAP,E 1-50 M SME<LH,HE>
C131	87-010-263-080		CAP,E 100-10 SME<LH,HE>
C132	87-010-380-080		CAP,E 47-16 M SME<LH,HE>
AC2 C.B			
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR3	87-026-690-080		FUSE,5A 125V 251<U>
⚠ PR3	87-026-681-080		PROTECTOR,5A 491SERIES 60V <EXCEPT U>
⚠ PR4	87-026-690-080		FUSE,5A 125V 251<U>
⚠ PR4	87-026-681-080		PROTECTOR,5A 491SERIES 60V <EXCEPT U>
⚠ PR5	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR6	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
AC1 C.B			
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC1	87-033-213-080		FUSE CLAMP,PFC5000<EZ,U>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC2	87-033-213-080		FUSE CLAMP,PFC5000<EZ,U>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ F101	87-035-457-010		FUSE,3.15A 250V T218<EZ>
⚠ F101	87-035-491-010		FUSE,6A 125V T237<U>
⚠ F101	87-035-457-010		FUSE,3.15A 250V T218<HE,LH>
⚠ F102	87-035-457-010		FUSE,3.15A 250V T218<HE,LH>
⚠ FB101	87-003-317-010		F-BEAD,15-25-15 E251<EZ>
⚠ PT101	87-NFS-601-010		PT,HR EI96-60 7NF-S<HE>
⚠ PT101	87-NFS-604-010		PT,LH EI96-60 7NF-S<LH>
⚠ PT101	87-NFS-602-010		PT,U EI96-60 7NF-S<U>
⚠ PT101	87-NFS-603-010		PT,E EI96-60 7NF-S<EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<HE,LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
AUDIO C.B			
C403	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C404	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C405	87-010-401-040		CAP,E 1-50 M SME
C406	87-010-401-040		CAP,E 1-50 M SME
C407	87-010-184-080		C-CAP,S 3300P-50 K B
C408	87-010-184-080		C-CAP,S 3300P-50 K B
C409	87-010-592-080		C-CAP,S 0.022-16 K R
C410	87-010-592-080		C-CAP,S 0.022-16 K R
C411	87-016-463-080		C-CAP, 0.33-16 K B C3216
C412	87-016-463-080		C-CAP, 0.33-16 K B C3216
C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C414	87-010-374-040		CAP,E 47-10 SME
C415	87-010-374-040		CAP,E 47-10 SME
C416	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C417	87-016-081-080		C-CAP,S 0.1-16 K R
C418	87-010-405-040		CAP,E 10-50 M SME
C419	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<U>
C601	87-010-405-040		CAP,E 10-50 M SME
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C603	87-010-405-040		CAP,E 10-50 M SME
C604	87-010-382-040		CAP,E 22-25 SME
C607	87-010-321-080		C-CAP,S 82P-50 J CH
C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C609	87-010-545-040		CAP,E 0.22-50 M SME
C611	87-010-177-080		C-CAP,S 820P-50 J SL
C612	87-010-597-080		C-CAP,S 0.056-16 RK
C614	87-010-248-040		CAP,E 220-10 M SME
CN501	88-913-191-110		FF-CABLE,13P 1.25
FB401	87-008-373-080		FILTER,EMIBL01 RN1<U>
RE C.B			
C101	87-010-198-080		C-CAP,S 0.022-25 K B
C102	87-010-198-080		C-CAP,S 0.022-25 K B
S101	87-A90-535-010		SW,RTRY EC16B24304-W0 NON
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
DECK C.B			
W001	82-ZM3-601-019		RBN,CORD,4P-75
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
CON502	87-099-756-019		CONN, 15P 9604 S F
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A
CN351	83-NEG-608-010		CONN ASSY,8P-RPB
PRO C.B			

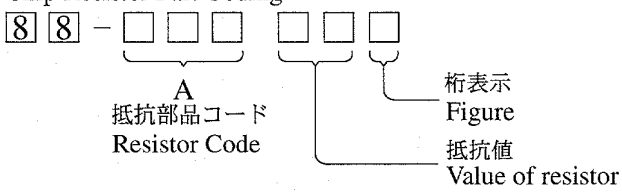
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-012-368-080		C-CAP,S 0.1-50 F
C102	87-012-368-080		C-CAP,S 0.1-50 F
C103	87-010-398-090		CAP,E 2200-35V
C104	87-010-398-090		CAP,E 2200-35V
C105	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C106	87-010-382-080		CAP, ELECT 22-25V
C107	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C108	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C109	87-016-369-080		C-CAP,S 0.033-25 B K
C110	87-010-194-080		CAP, CHIP 0.047
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C117	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C118	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C201	87-010-186-080		CAP,CHIP 4700P
C202	87-010-402-080		CAP, ELECT 2.2-50V
C203	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C204	87-010-405-080		CAP, ELECT 10-50V
C205	87-A10-516-080		C-CAP,S 100P-200 J CH
C208	87-010-260-080		CAP, ELECT 47-25V
C209	87-010-993-080		C-CAP,S 0.056-25 B
C210	87-010-196-080		CHIP CAPACITOR,0.1-25
C211	87-010-197-080		CAP, CHIP 0.01 DM
C212	87-010-196-080		CHIP CAPACITOR,0.1-25
C213	87-010-406-080		CAP, ELECT 22-50
C214	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C301	87-010-183-080		C-CAP,S 2700P-50 B
C302	87-010-402-080		CAP, ELECT 2.2-50V
C303	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C304	87-010-382-080		CAP, ELECT 22-25V
C305	87-A10-516-080		C-CAP,S 100P-200 J CH
C308	87-010-260-080		CAP, ELECT 47-25V
C309	87-010-993-080		C-CAP,S 0.056-25 B
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-197-080		CAP, CHIP 0.01 DM
C312	87-010-196-080		CHIP CAPACITOR,0.1-25
C313	87-010-406-080		CAP, ELECT 22-50
C314	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C315	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C316	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C501	87-010-176-080		C-CAP,S 680P-50 SL
C502	87-010-176-080		C-CAP,S 680P-50 SL
C507	87-016-456-080		CAP,E 22-16 LLA
C508	87-010-196-080		CHIP CAPACITOR,0.1-25
C509	87-010-112-080		CAP, ELECT 100-16V
C510	87-010-380-080		CAP, ELECT 47-16V
C512	87-016-472-080		CAP,E 22-16 SME(K)
C513	87-010-196-080		CHIP CAPACITOR,0.1-25
C514	87-010-263-080		CAP, ELECT 100-10V
C518	87-010-378-080		CAP, ELECT 10-16V
C519	87-010-378-080		CAP, ELECT 10-16V<EZ>
C519	87-010-404-080		CAP, ELECT 4.7-50V<EXCEPT EZ>
C520	87-010-378-080		CAP, ELECT 10-16V<EZ>
C520	87-010-404-080		CAP, ELECT 4.7-50V<EXCEPT EZ>
C521	87-010-805-080		C-CAP,S 1-16 FZ<EZ>
C521	87-010-400-080		CAP, ELECT 0.47-50V<EXCEPT EZ>
C522	87-010-378-080		CAP, ELECT 10-16V
C523	87-010-400-080		CAP, ELECT 0.47-50V
C524	87-016-081-080		C-CAP,S 0.1-16 RK
C525	87-010-248-080		CAP, ELECT 220-10V
C526	87-012-140-080		CAP 470P
C527	87-010-186-080		CAP,CHIP 4700P
C528	87-010-186-080		CAP,CHIP 4700P
C529	87-010-404-080		CAP, ELECT 4.7-50V
C532	87-A10-229-080		C-CAP,S 0.68-10 K W5
C533	87-012-393-080		C-CAP,S 0.22-16 R K
C534	87-012-393-080		C-CAP,S 0.22-16 R K
C535	87-010-404-080		CAP, ELECT 4.7-50V
C536	87-010-404-080		CAP, ELECT 4.7-50V
C537	87-012-393-080		C-CAP,S 0.22-16 R K
C538	87-012-393-080		C-CAP,S 0.22-16 R K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C539	87-016-081-080		C-CAP,S 0.1-16 RK
C542	87-016-081-080		C-CAP,S 0.1-16 RK
C543	87-016-081-080		C-CAP,S 0.1-16 RK
C546	87-016-081-080		C-CAP,S 0.1-16 RK
C548	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
C549	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
C550	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>
C604	87-010-319-080		C-CAP,S 56P-50 CH
C605	87-010-319-080		C-CAP,S 56P-50 CH
C606	87-016-526-080		C-CAP,S 0.47-16 BK
C607	87-010-197-080		CAP, CHIP 0.01 DM
C608	87-010-180-080		C-CER 1500P
C609	87-010-197-080		CAP, CHIP 0.01 DM
C610	87-010-197-080		CAP, CHIP 0.01 DM
C611	87-010-197-080		CAP, CHIP 0.01 DM
C612	87-010-181-080		CAP,CHIP S 1800P
C613	87-010-196-080		CHIP CAPACITOR,0.1-25
C615	87-010-263-080		CAP, ELECT 100-10V
C616	87-010-404-080		CAP, ELECT 4.7-50V
C617	87-010-196-080		CHIP CAPACITOR,0.1-25
C618	87-010-263-080		CAP, ELECT 100-10V
C621	87-010-403-080		CAP, ELECT 3.3-50V
C622	87-A10-201-080		C-CAP,S 0.33-16 BK<EZ>
C622	87-012-141-080		C-CAP,S 0.22-16 ZF<EXCEPT EZ>
C624	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>

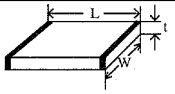
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-401-080		CAP, ELECT 1-50V
C702	87-010-401-080		CAP, ELECT 1-50V
C703	87-010-263-080		CAP, ELECT 100-10V
C707	87-016-526-080		C-CAP,S 0.47-16 BK
C708	87-016-526-080		C-CAP,S 0.47-16 BK
C709	87-010-380-080		CAP, ELECT 47-16V
C712	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C713	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
FB106	87-008-372-080		FILTER, EMI BL01 RN1<EXCEPT EZ>
FB512	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
FB516	87-008-474-080		F-BEAD,BL02RN1-R62T<EZ>
FB705	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
J201	87-A60-380-010		JACK,PIN 3P O/W/R YKC21-3
L201	87-003-383-010		COIL,1UH-S
L301	87-003-383-010		COIL,1UH-S
L601	87-005-212-080		COIL,220UH
R215	87-A00-257-080		RES,M/F 0.15-1W J
R315	87-A00-257-080		RES,M/F 0.15-1W J
R524	87-022-365-080		C-RES,S 100K-1/10W F

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

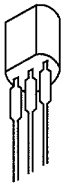
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



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) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
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

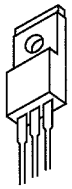
C2N5551
CSD1489B
CSB1058B

E B C

C2N5401

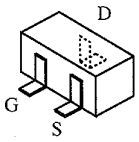
B C E

2SB1370
2SD2061
FN1016
FP1016



G D G

2SK2723



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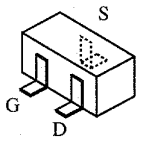

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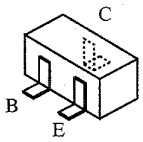
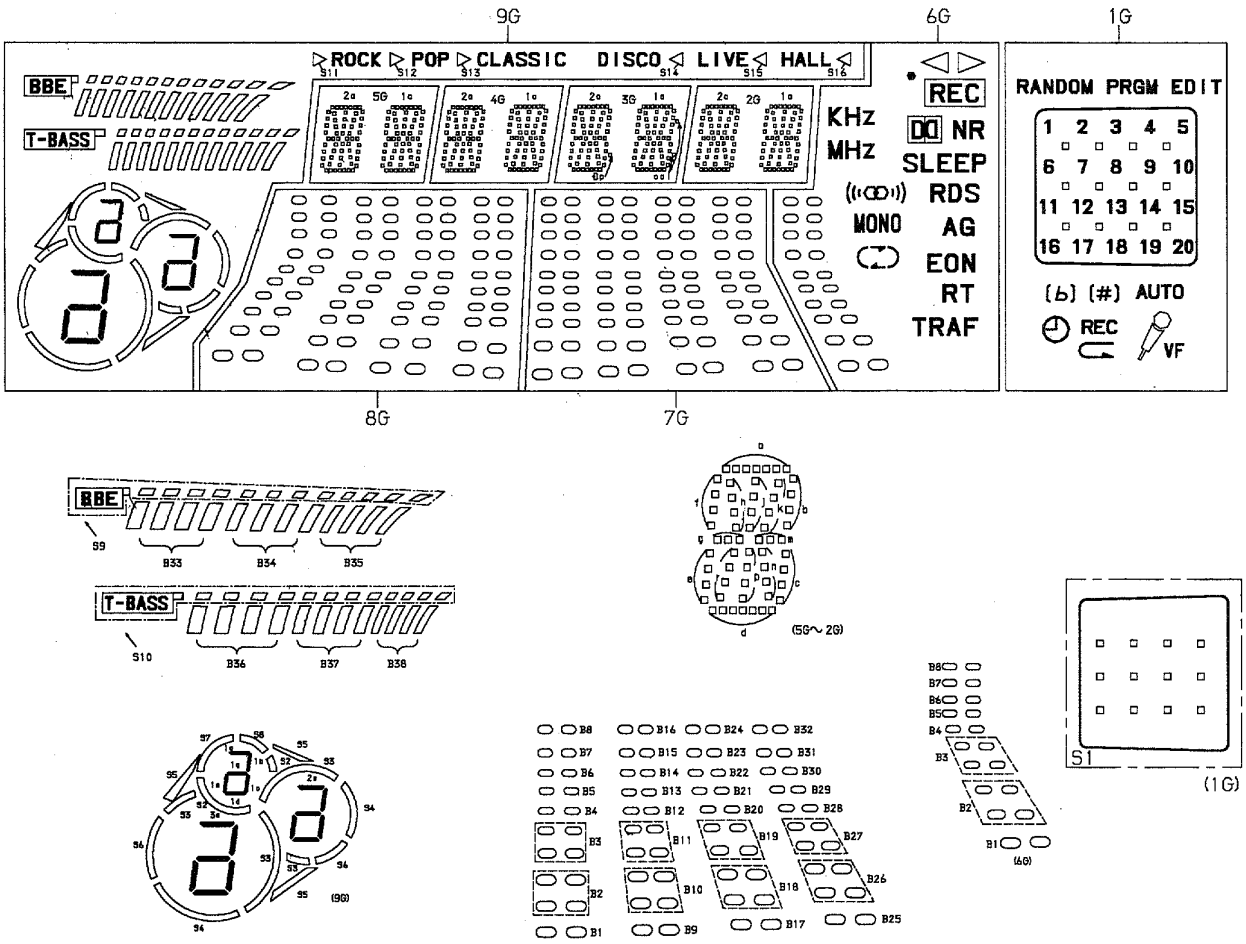


2SA1235F	DTA144WK
2SC2714	RN1404
2SC3052F	RT1N141C
CMBT5551	RT1N144C
CSA1362GR	RT1P141C
CSD1306E	RT1P144C

FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

FL, BJ530 GK

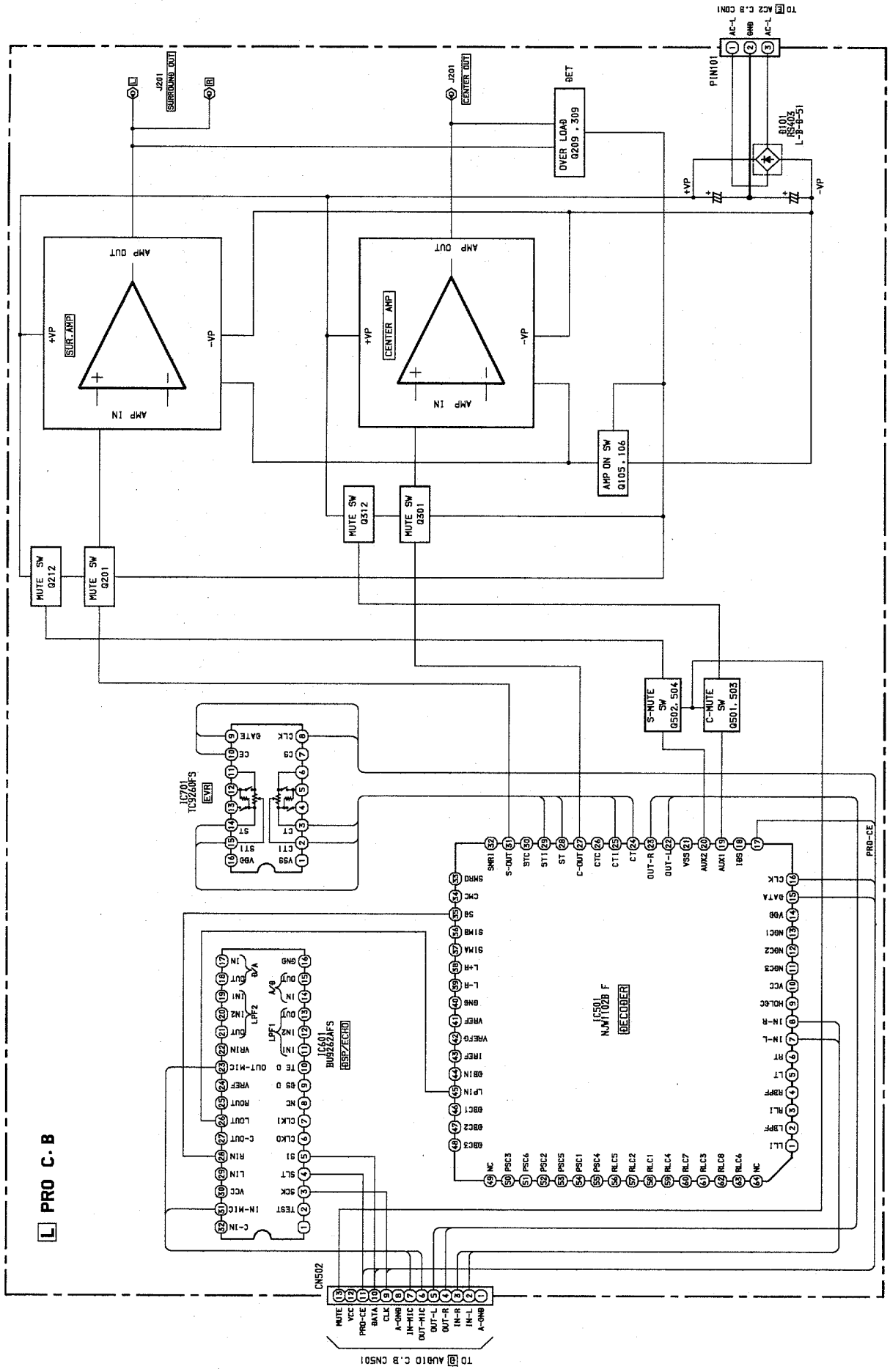


[8G, 7G]

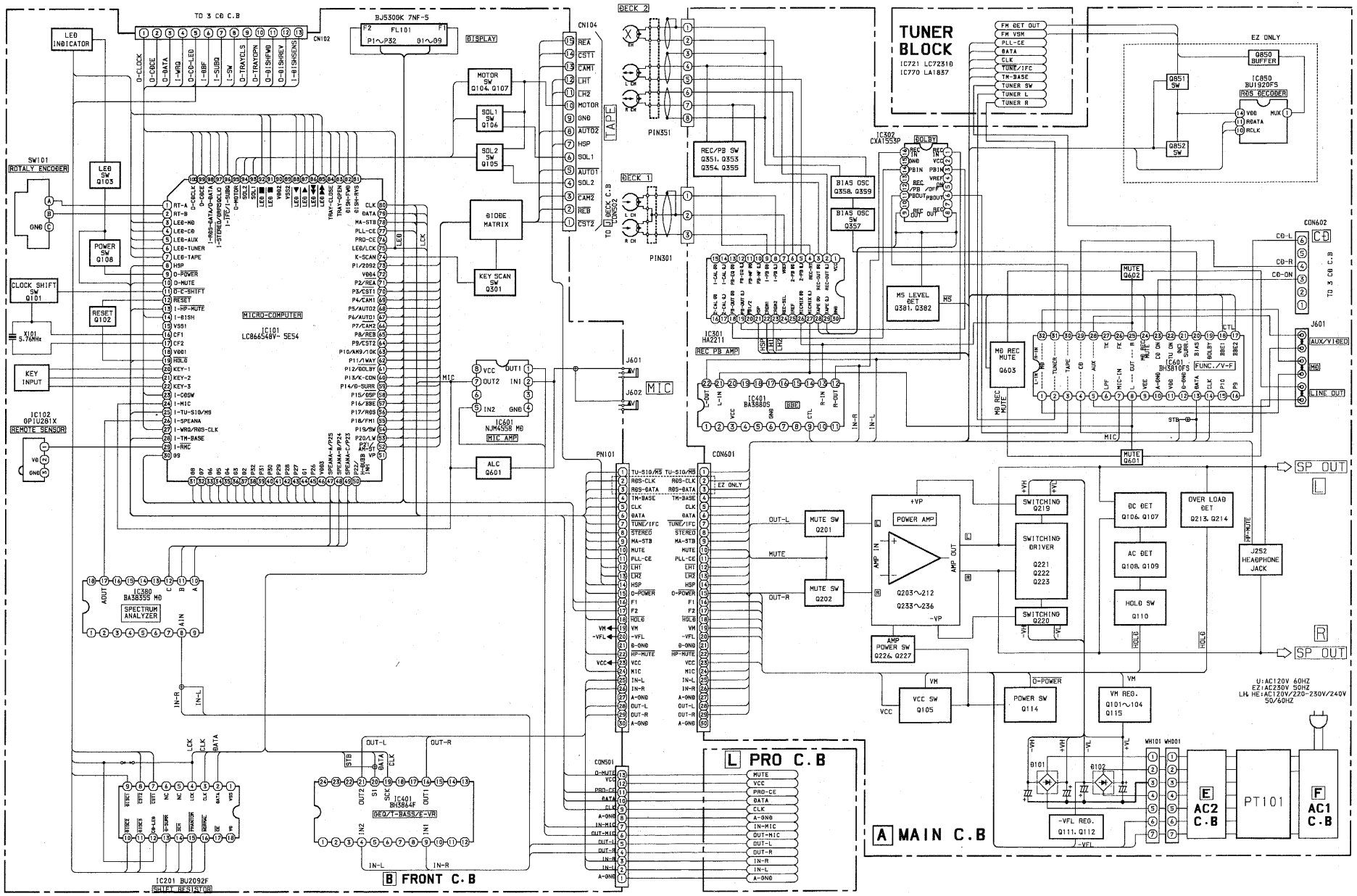
ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	–	col (down)	–	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	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	–	1f	1f	1f	6
P11	3b	B14	DD 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	–	1a	1a	1a	11
P16	S5	B5	B5	–	col(up)	–	12
P17	S7	B28	–	–	Ðp	–	13
P18	S4	B20	–	2d	2d	2d	14
P19	S6	B12	–	2n	2n	2n	15
P20	S16	B4	B4	2p	2p	2p	16
P21	S15	B27	AG	2r	2r	2r	17
P22	S14	B19	((OO))	2e	2e	2e	18
P23	S13	B11	EON	2c	2c	2c	19
P24	S12	B3	B3	2g	2g	2g	20
P25	S11	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	(	2a	2a	2a	((b))
P32	ROCK POP CLASSIC S10	B1	B1	–	–	–	S1
P33	DISCO LIVE HALL	–	–	–	–	–	–
P34	S9	–	–	–	–	–	–
P35	–	–	–	–	–	–	b #

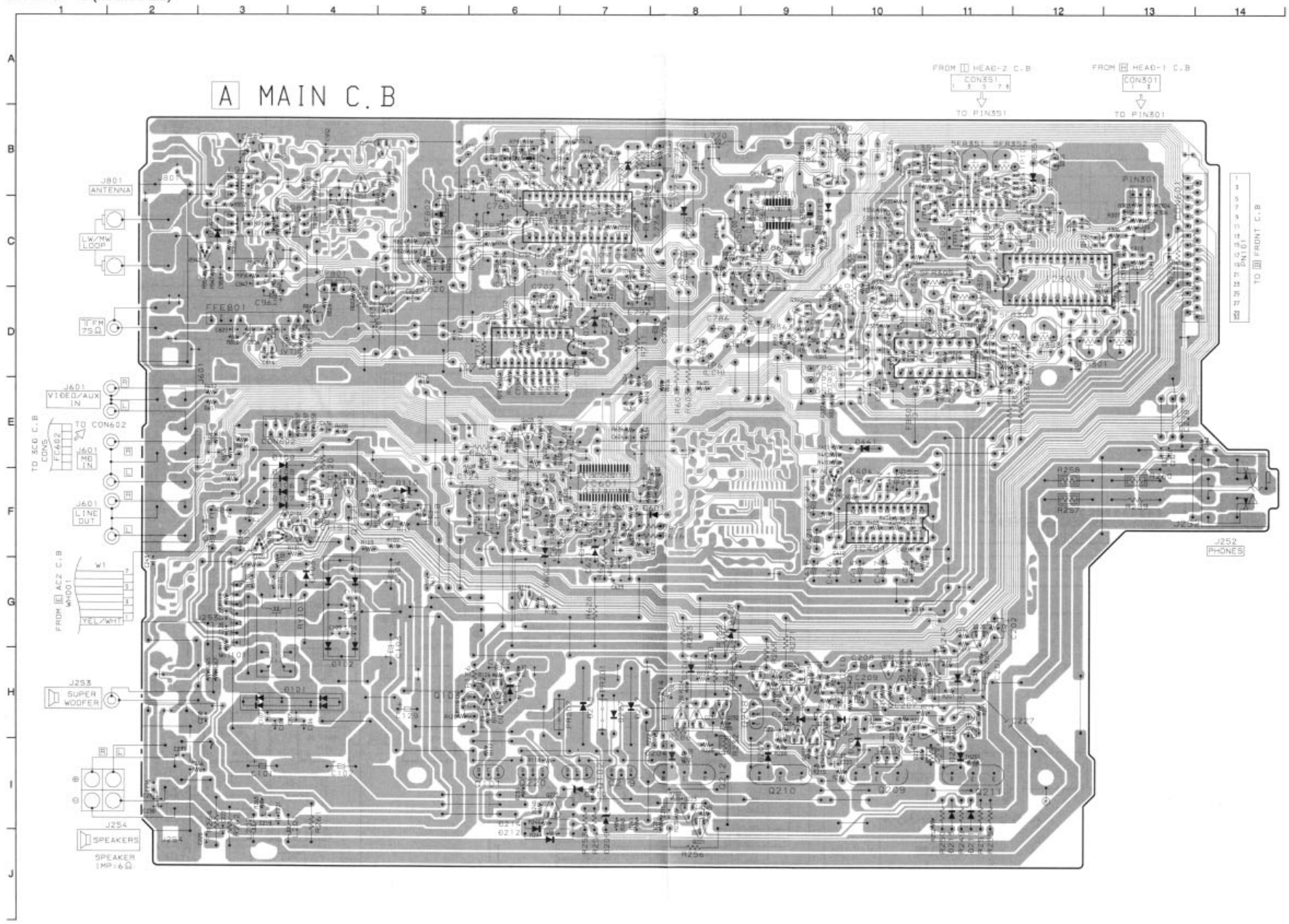
BLOCK DIAGRAM – 1 (PROLOGIC)



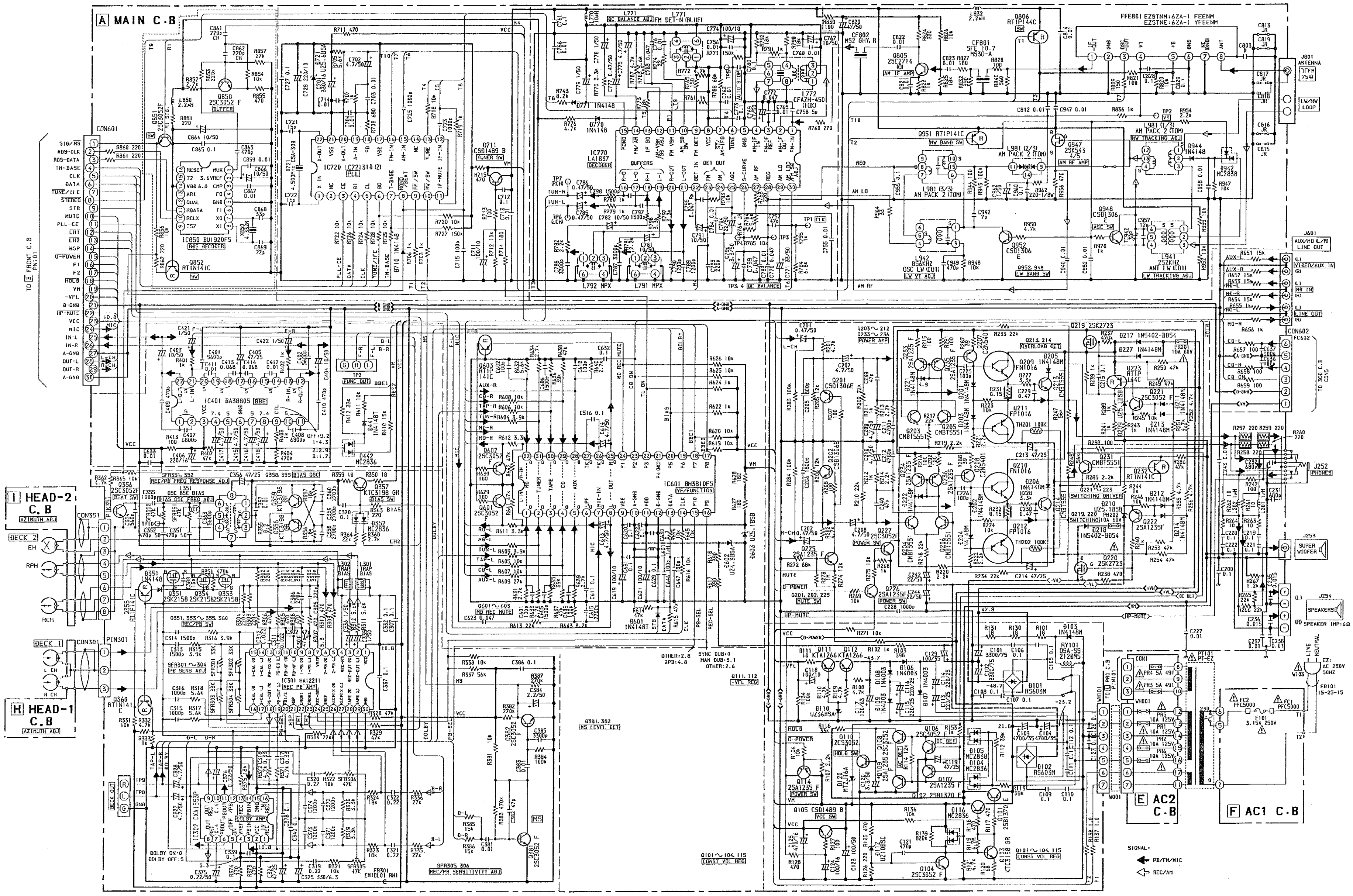
BLOCK DIAGRAM – 2 (MAIN / FRONT)



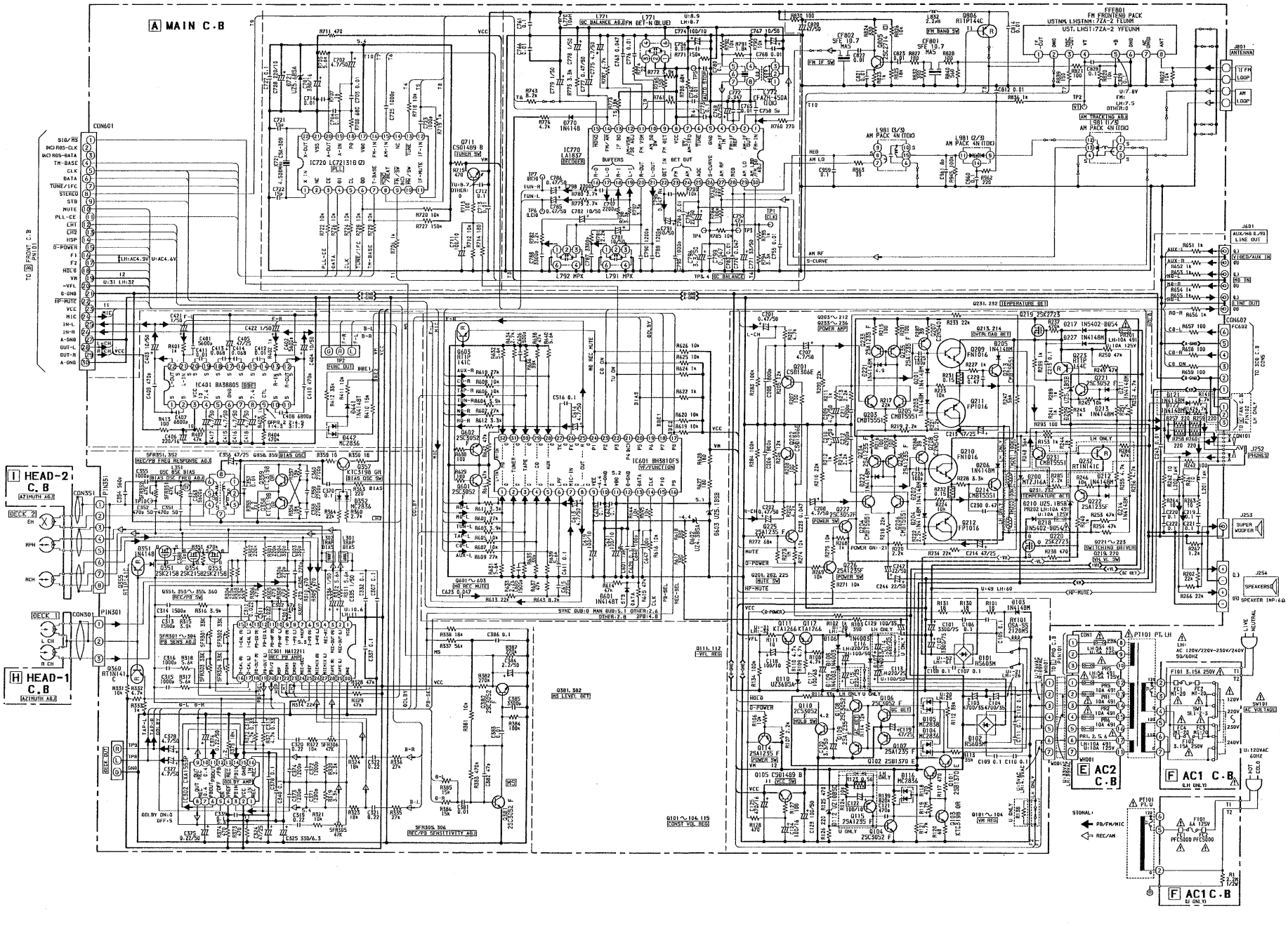
WIRING – 1 (MAIN : EZ)



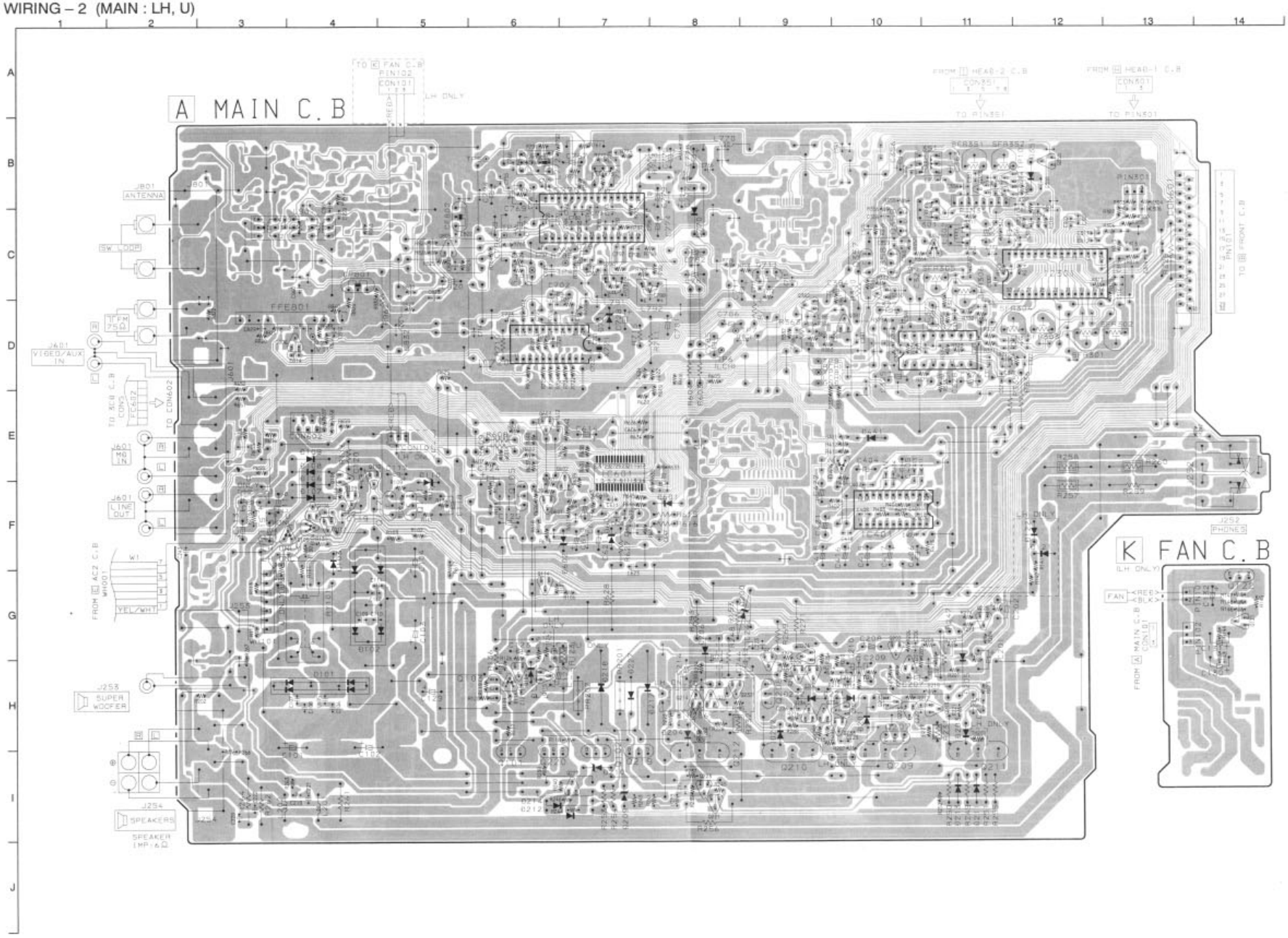
SCHEMATIC DIAGRAM – 1 (MAIN : EZ)



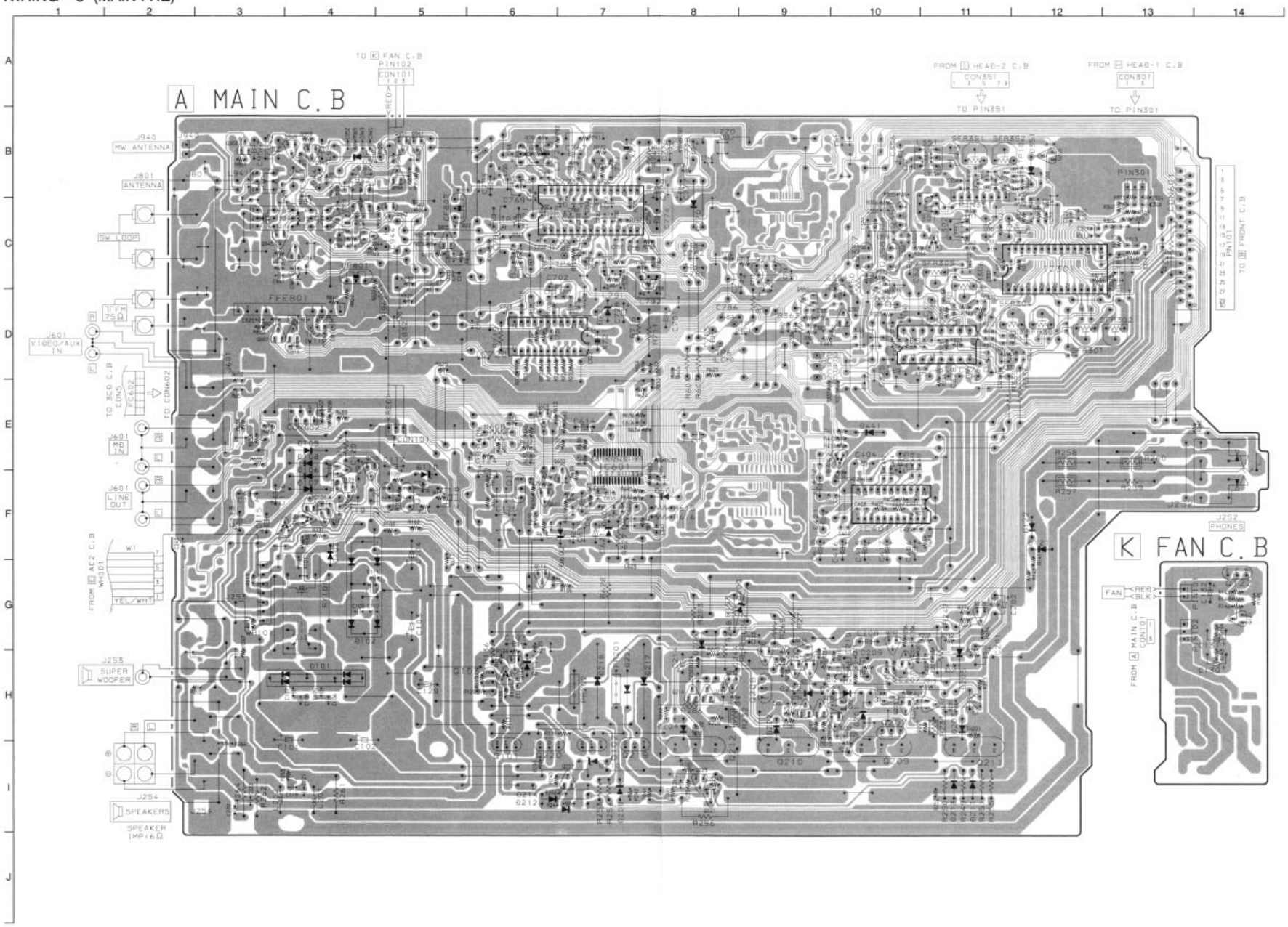
SCHEMATIC DIAGRAM – 2 (MAIN : LH, U)



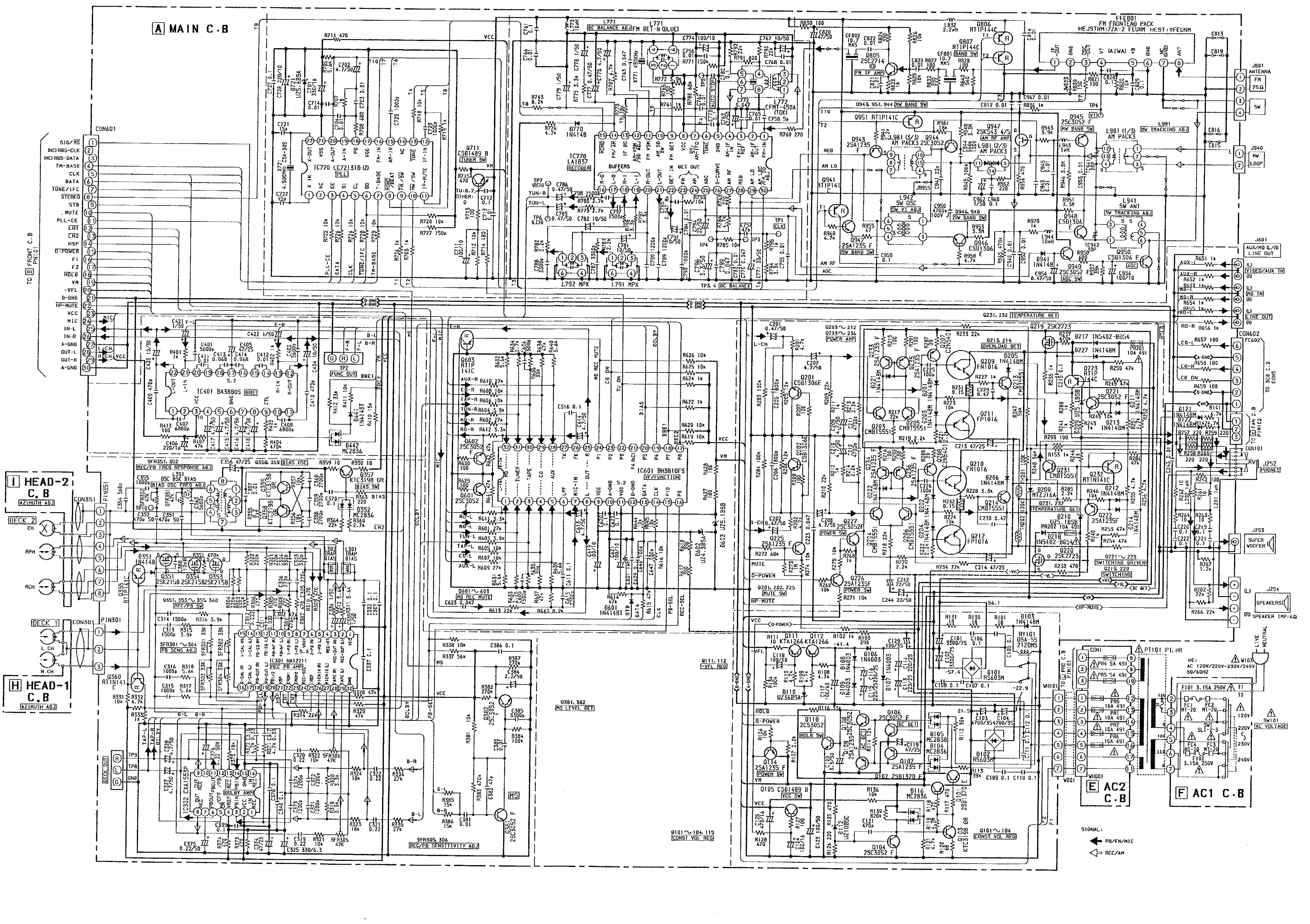
WIRING – 2 (MAIN : LH, U)



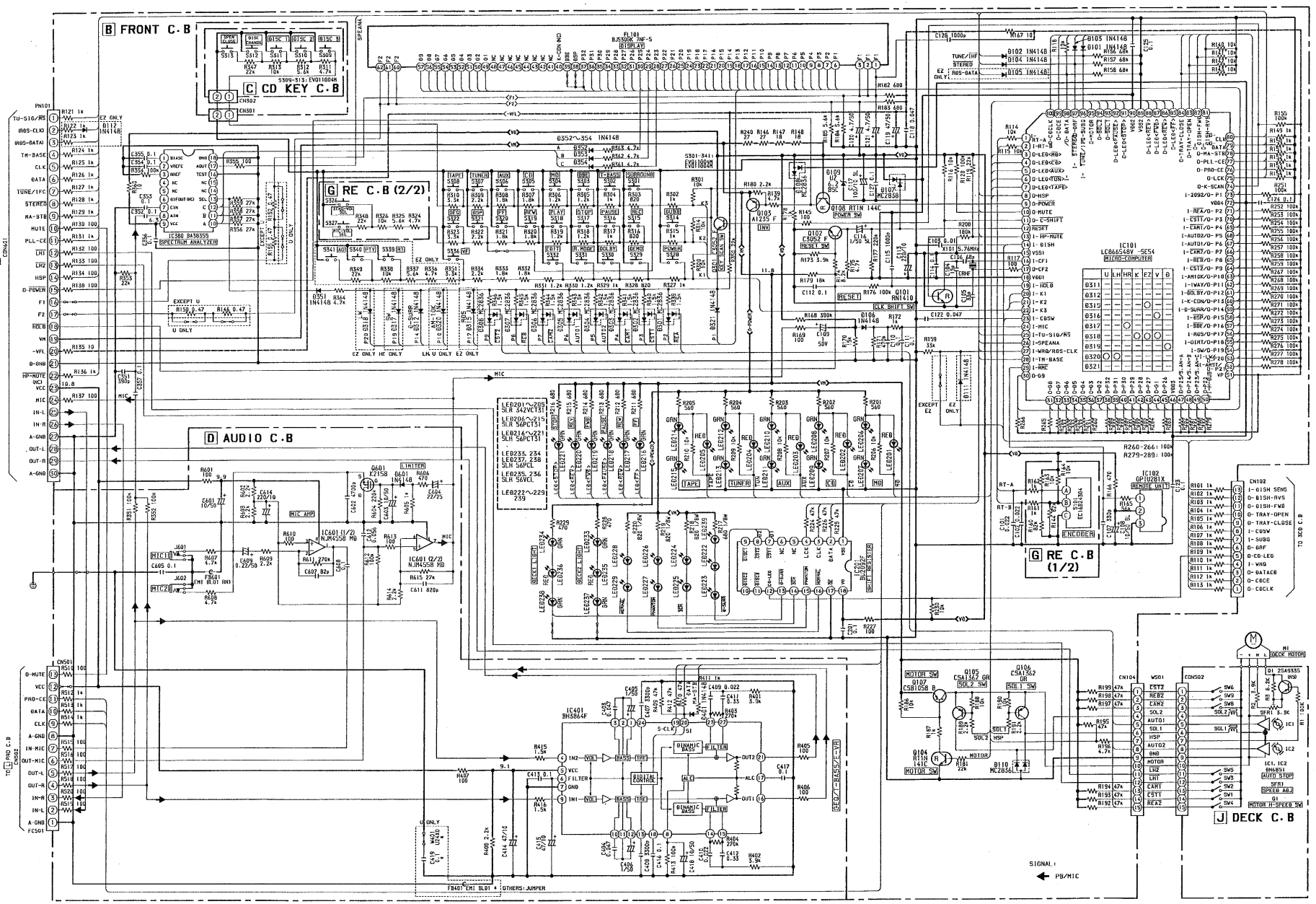
WIRING – 3 (MAIN : HE)

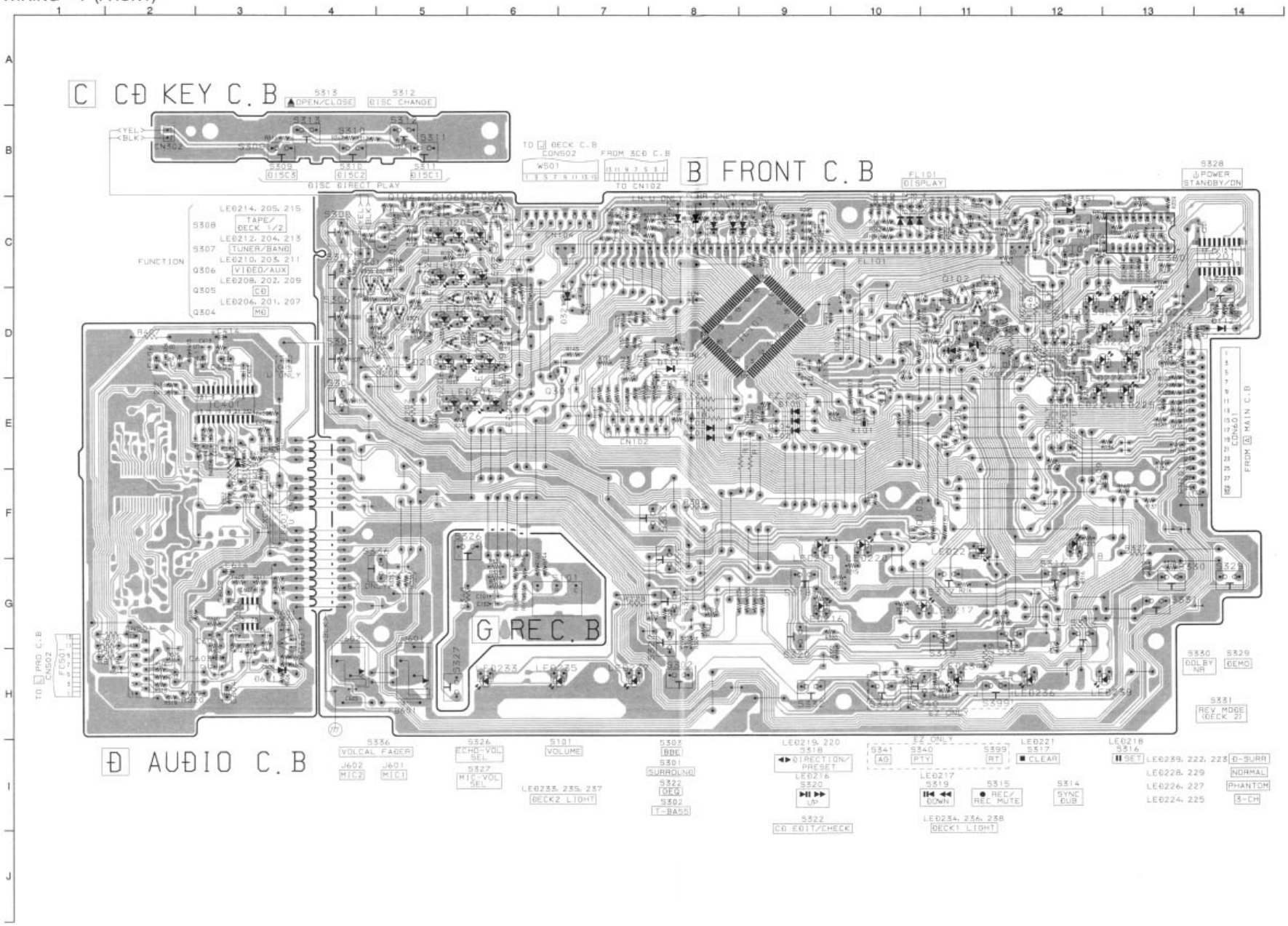


SCHEMATIC DIAGRAM – 3 (MAIN : HE)

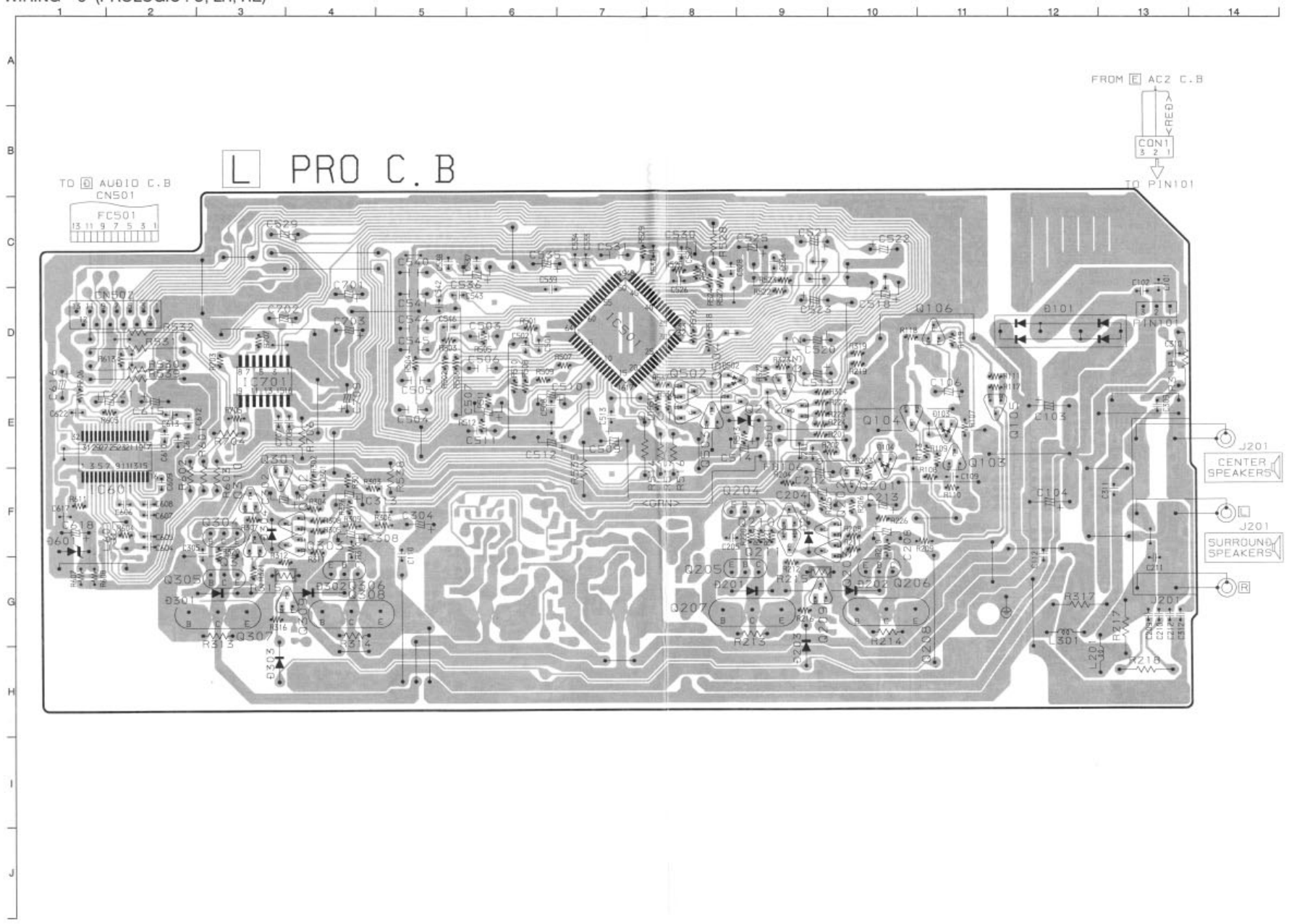


SCHEMATIC DIAGRAM – 4 (FRONT)

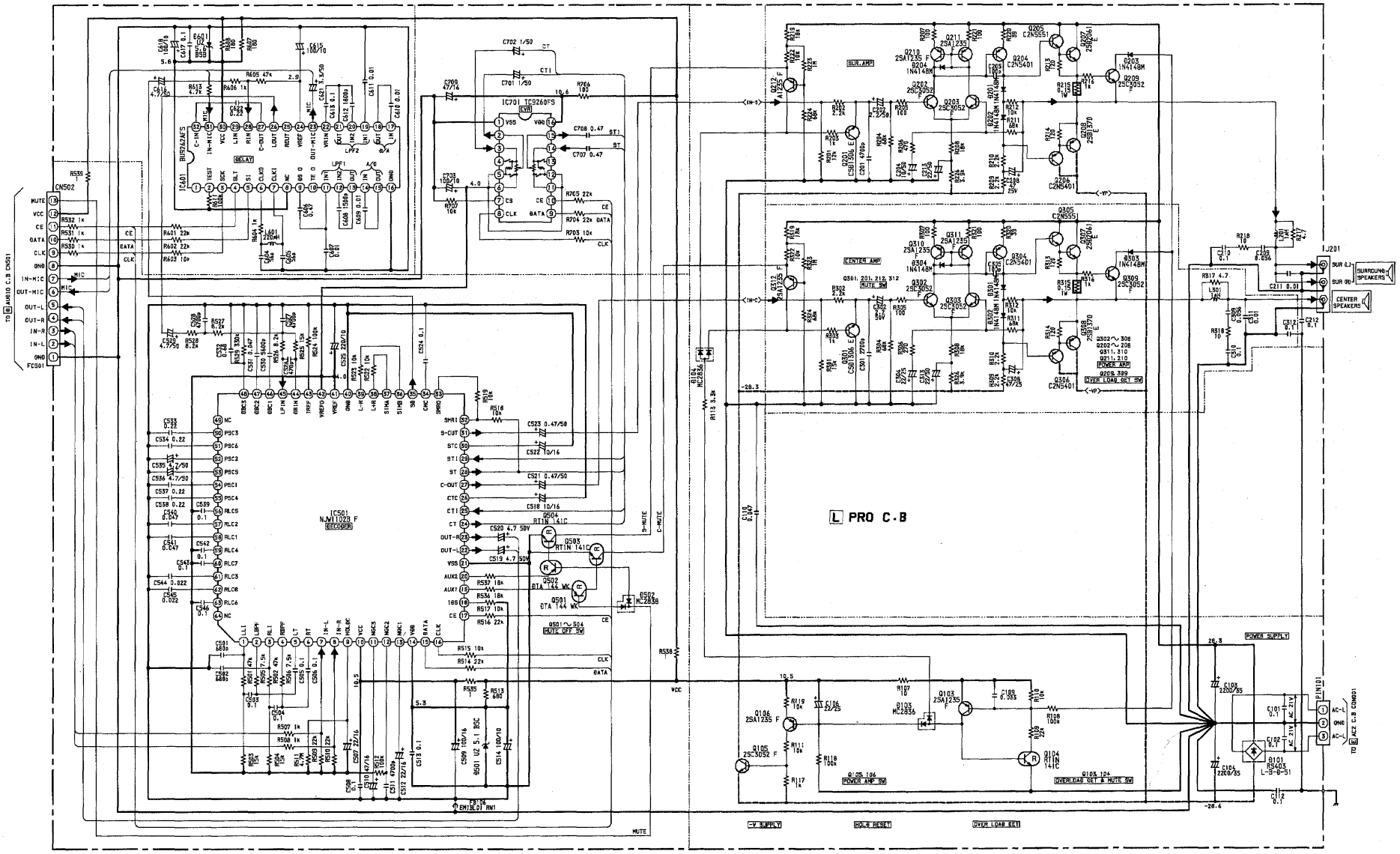



C CD KEY C.B
S313 OPEN/CLOSE
S312 DISC CHANGE
S309 DISC3
S310 DISC2
S311 DISC1
DISC DIRECT PLAY
TO D DECK C.B CON502
FROM 3CB C.B
W501
TO CN102
B FRONT C.B
FL101 DISPLAY
S328 POWER STANDBY/ON
FUNCTION
S308 TAPE/ DECK 1/2
S307 TUNER/BAND
Q306 VIDEO/AUX
Q305 CD
Q304 MD
LED214, 205, 215
LED212, 204, 213
LED210, 203, 211
LED208, 202, 209
LED206, 201, 207
FROM A MAIN C.B CON401
G REC.B
TO E PRO C.B CN502
FCS01
D AUDIO C.B
S336 VOLCAL FADER
J602 MIC2
J601 MIC1
S326 ECHO-VOL SEL
S327 MIC-VOL SEL
S101 VOLUME
LED233, 235, 237 DECK2 LIGHT
S303 BBE
S301 SURROUND
S322 DEG
S302 T-BASS
LED219, 220
S318 DIRECTION/ PRESET
LED216
S320 UP
S322 CD EDIT/CHECK
EZ ONLY
S341 AG
S340 PTY
S339 RT
LED217
S319 DOWN
LED234, 236, 238 DECK1 LIGHT
LED221
S317 CLEAR
S315 REC/ REC MUTE
S314 SYNC DUB
LED218
S316 SET
S330 DOLBY NR
S329 DEMO
S331 REV MODE (DECK 2)
LED239, 222, 223 D-SURR
LED228, 229 NORMAL
LED226, 227 PHANTOM
LED224, 225 3-CH

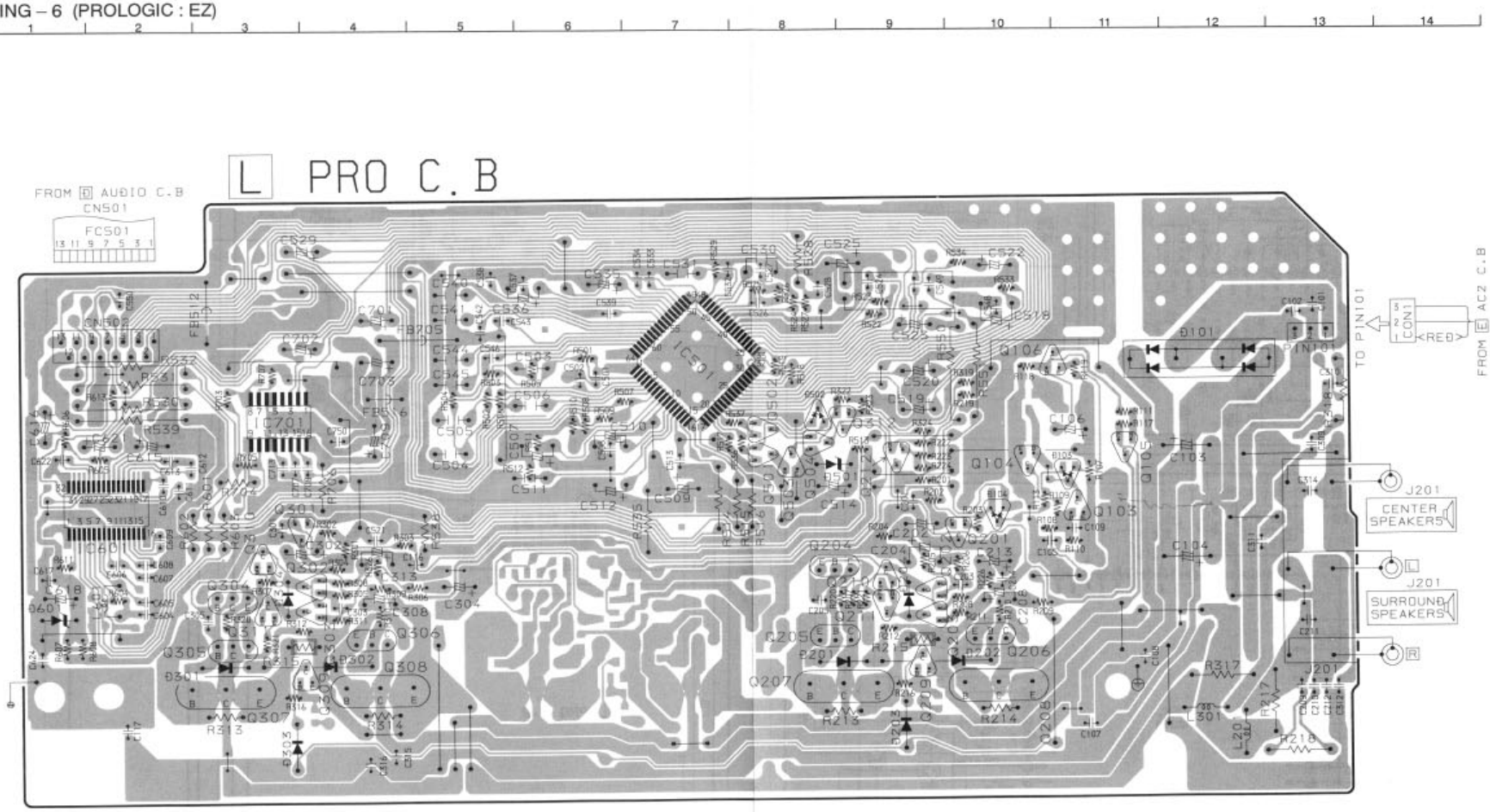
WIRING – 5 (PROLOGIC : U, LH, HE)



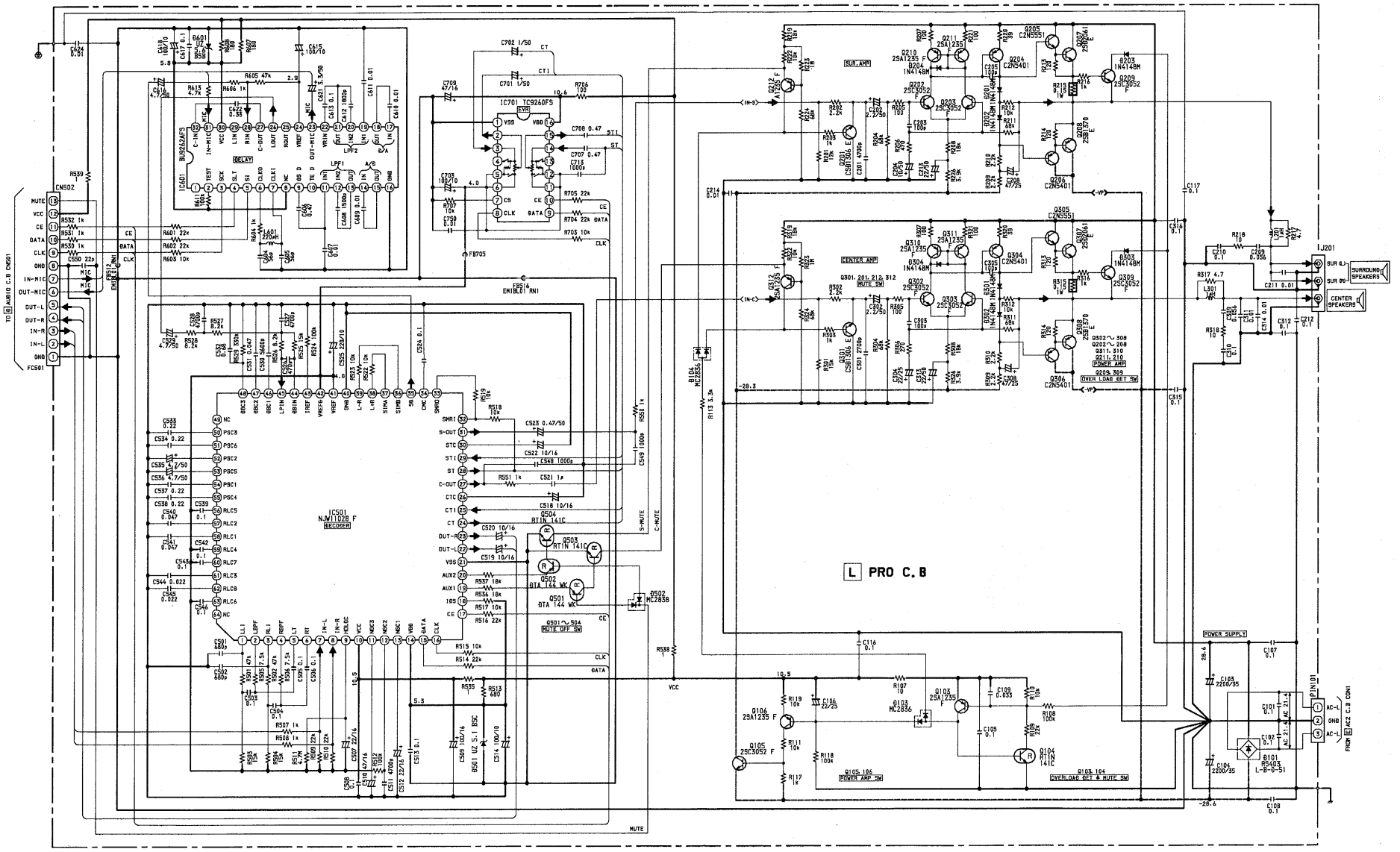
SCHEMATIC DIAGRAM – 5 (PROLOGIC : U, LH, HE)



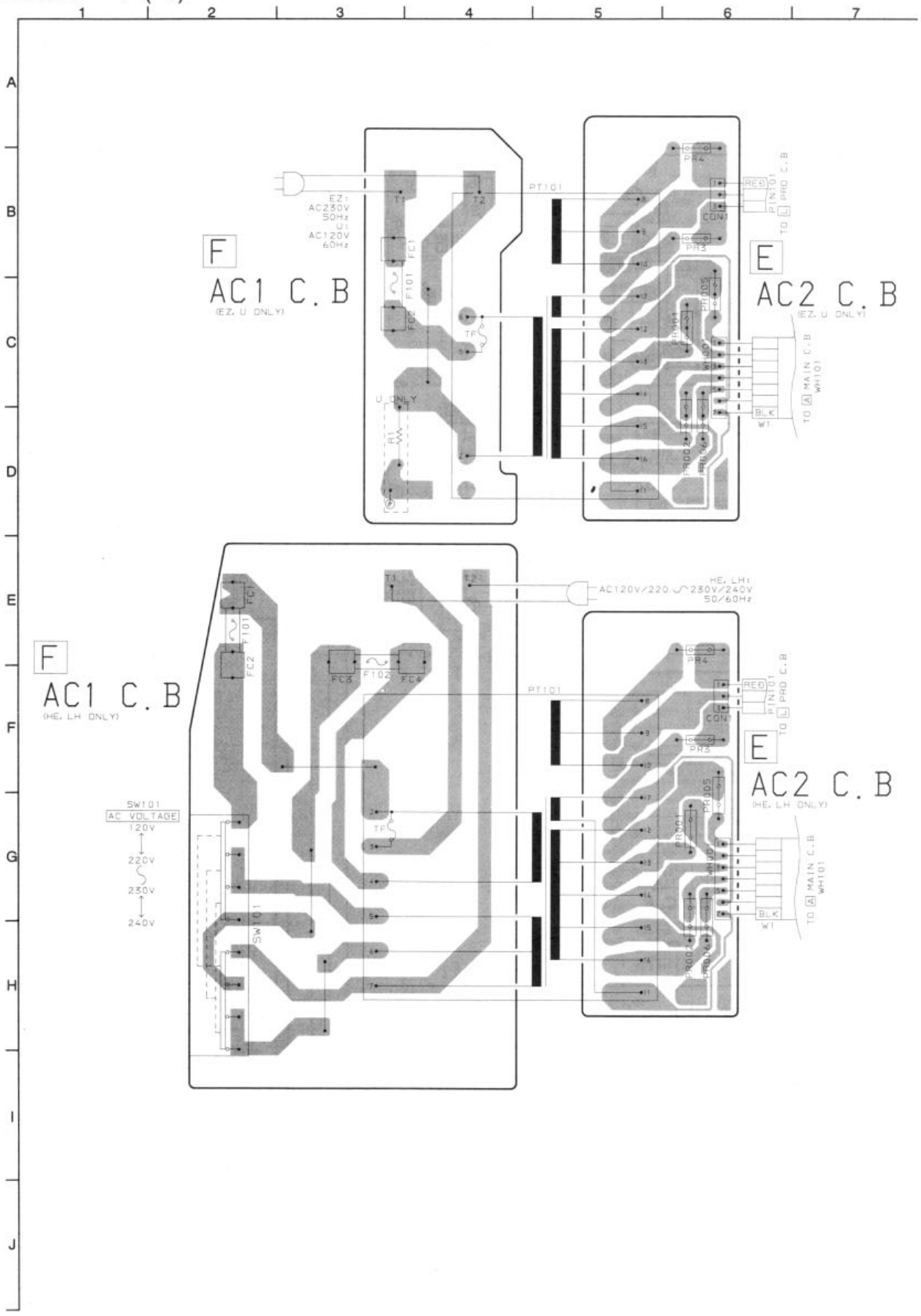
WIRING – 6 (PROLOGIC : EZ)



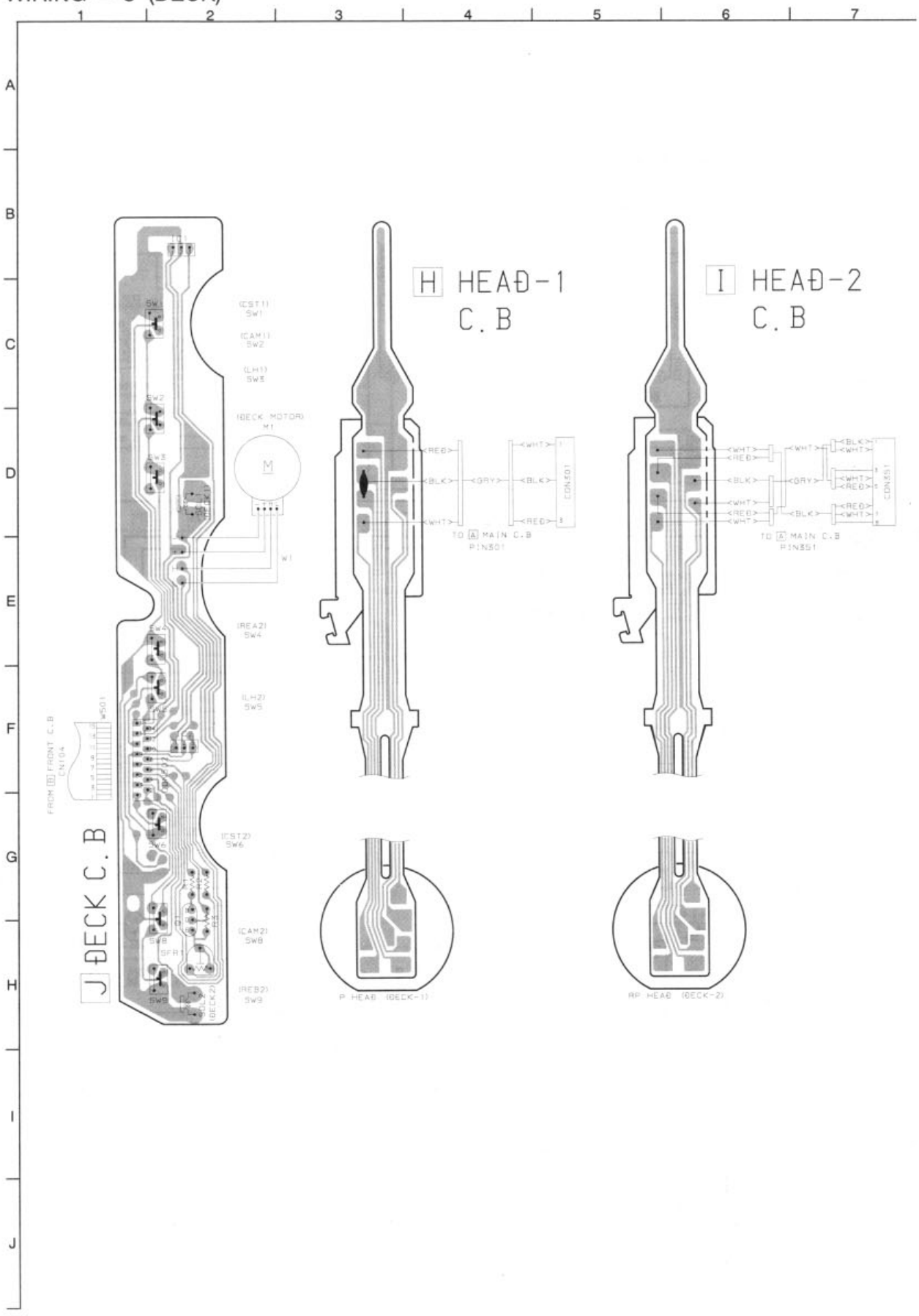
SCHEMATIC DIAGRAM – 6 (PROLOGIC : EZ)



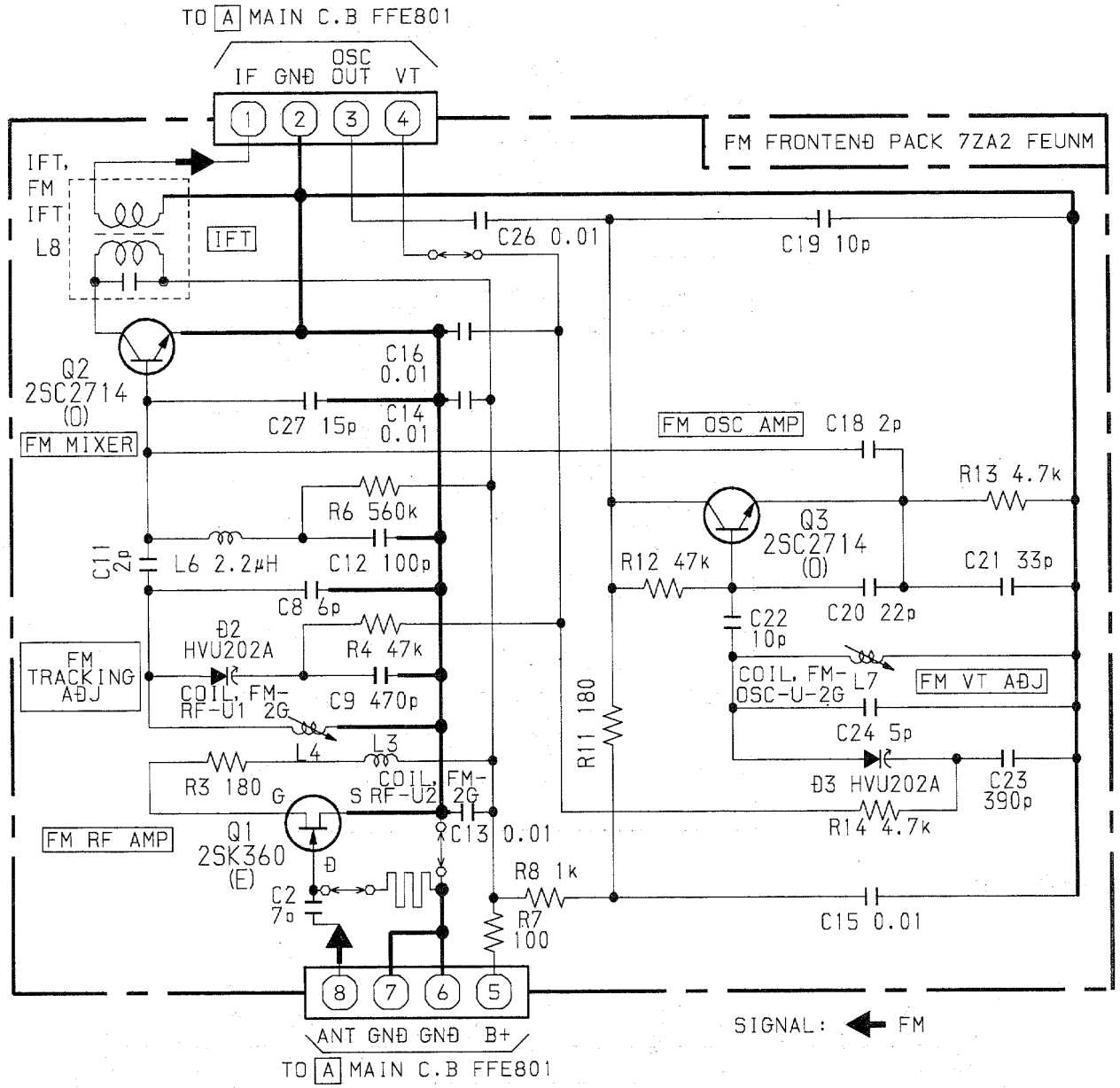
WIRING – 7 (PT)

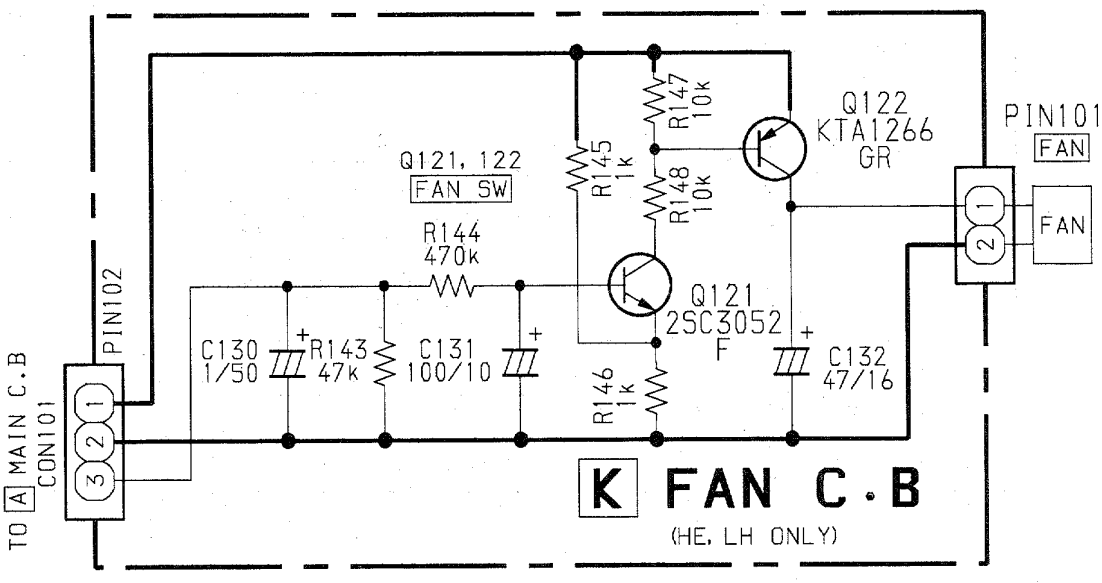

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
F
AC1 C.B
(EZ, U ONLY)
EZ:
AC230V
50Hz
U:
AC120V
60Hz
T1
T2
FC1
F101
FC2
TF
C ONLY
R1
W
PT101
E
AC2 C.B
(EZ, U ONLY)
PR4
PR3
PR5
PR1
PR2
CON1
RED
PIN101
TO L PRO C.B
WH107
BLK
W1
TO A MAIN C.B
WH101
F
AC1 C.B
(HE, LH ONLY)
HE, LH:
AC120V/220 ~ 230V/240V
50/60Hz
FC3
F102
FC4
SW101
AC VOLTAGE
120V
220V
230V
240V
E
AC2 C.B
(HE, LH ONLY)

WIRING – 8 (DECK)



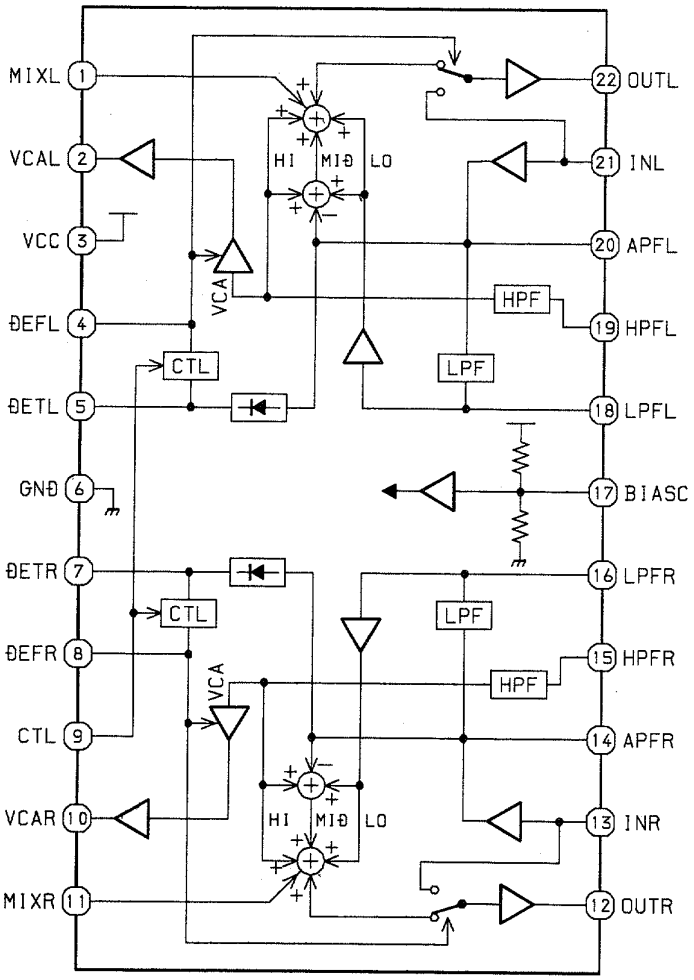
SCHEMATIC DIAGRAM – 7 (TUNER FRONT END / FAN)



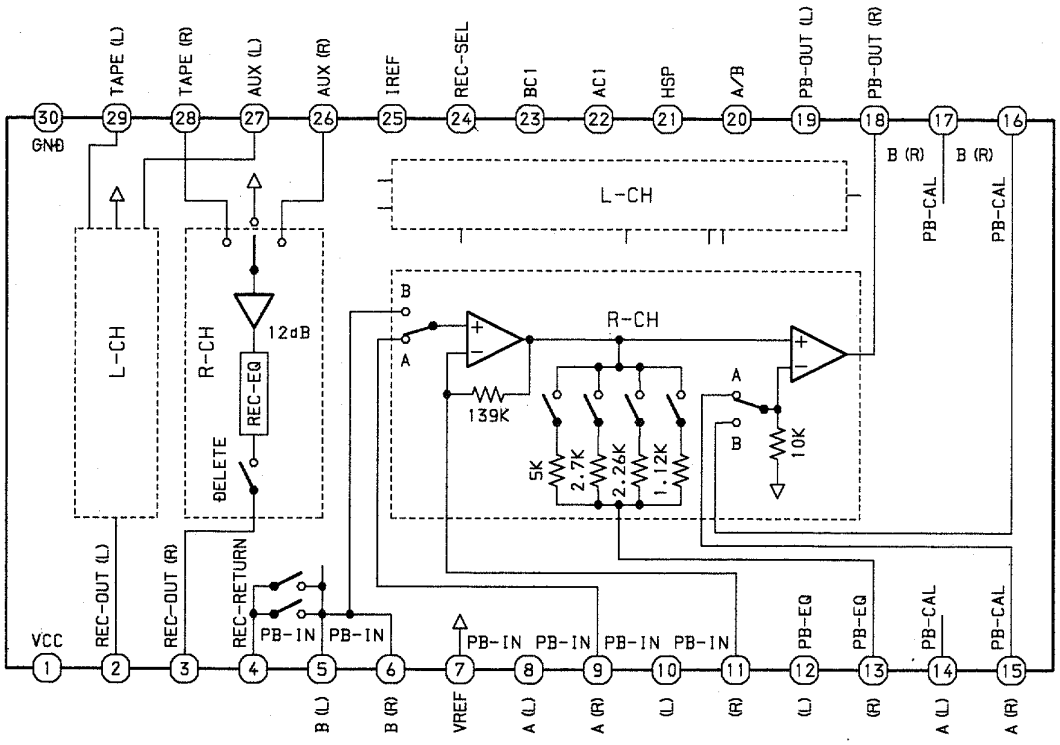


IC BLOCK DIAGRAM

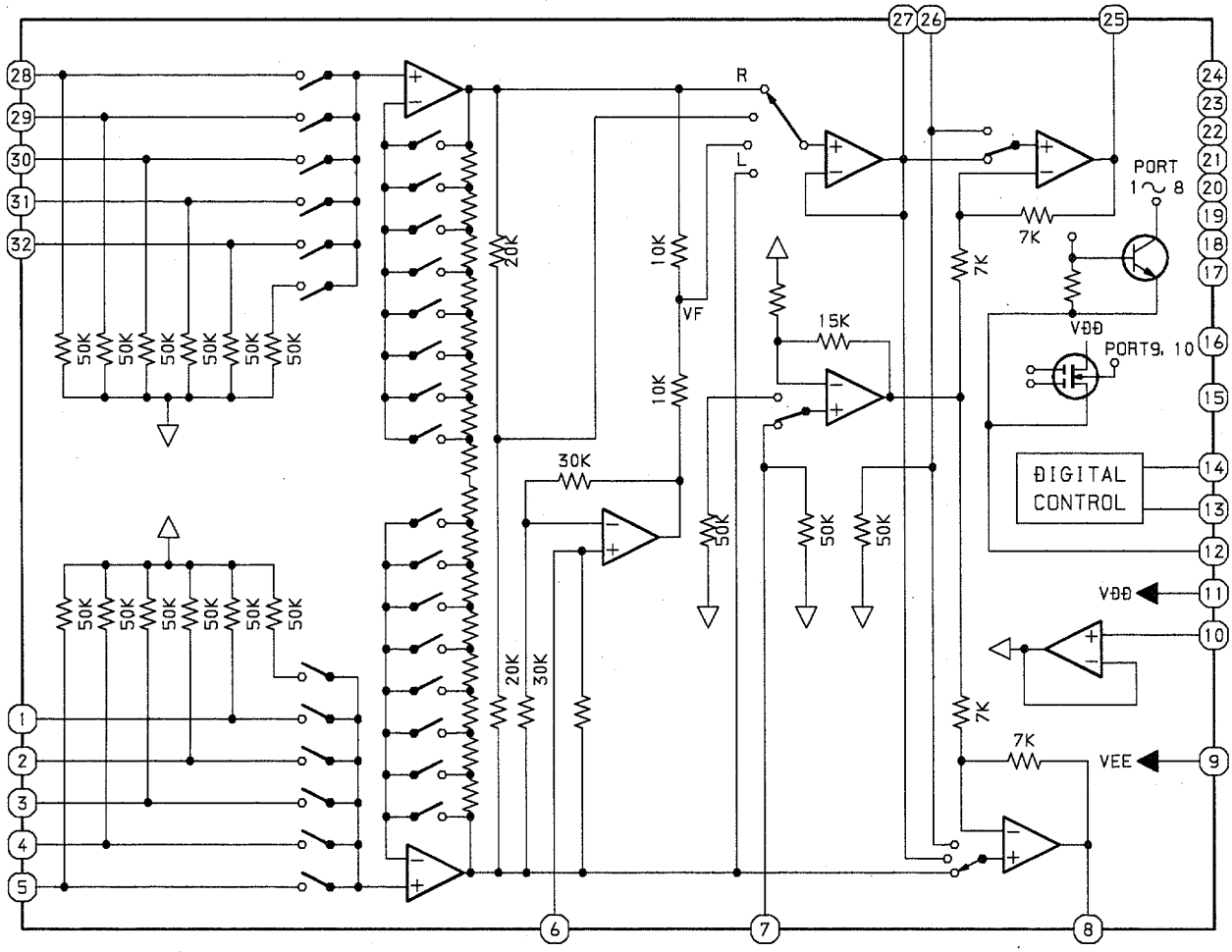
IC, BA3880S



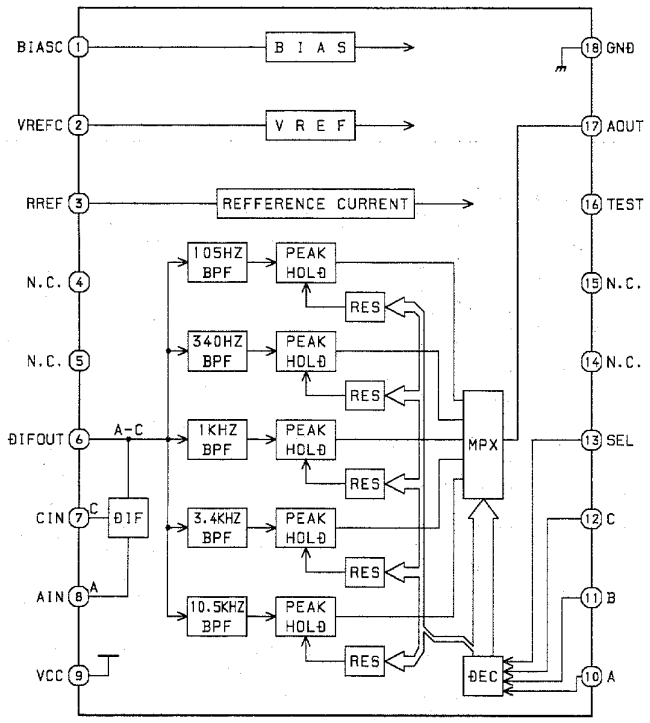
IC, HA12211NT



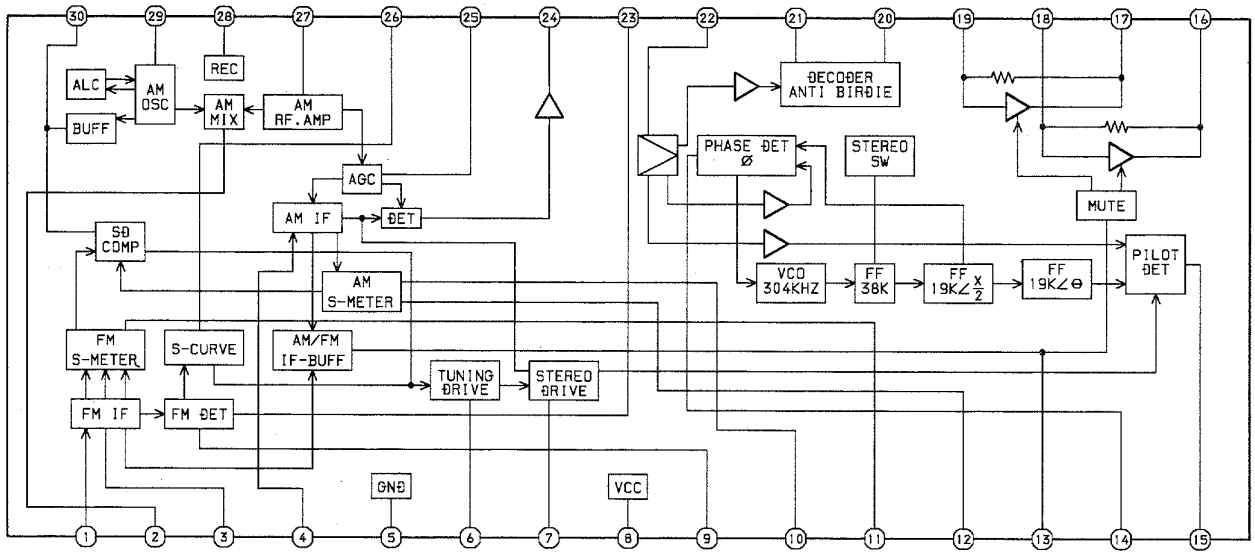
IC, BH3810FS


R
VF
PORT
1 ~ 8
PORT9, 10
VDD
VEE
DIGITAL
CONTROL
50K
10K
15K
30K
20K
7K

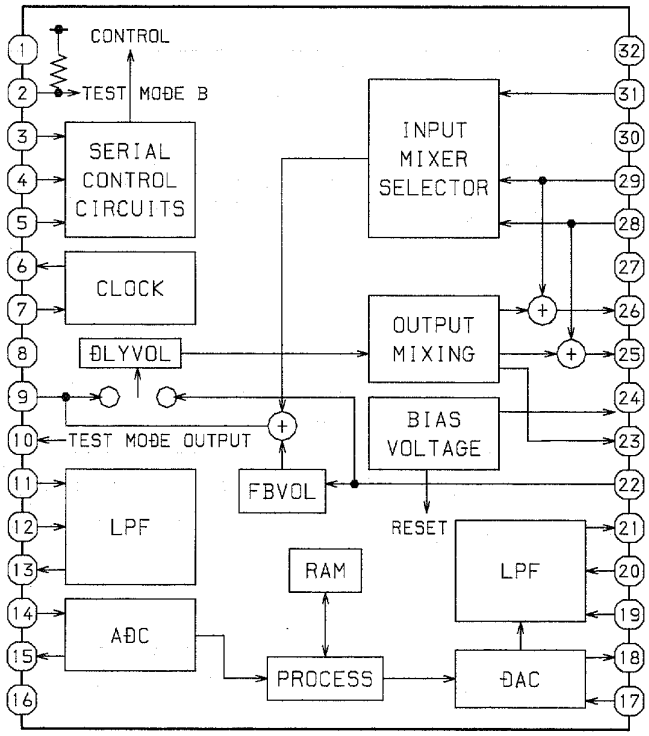
IC, LA3835S



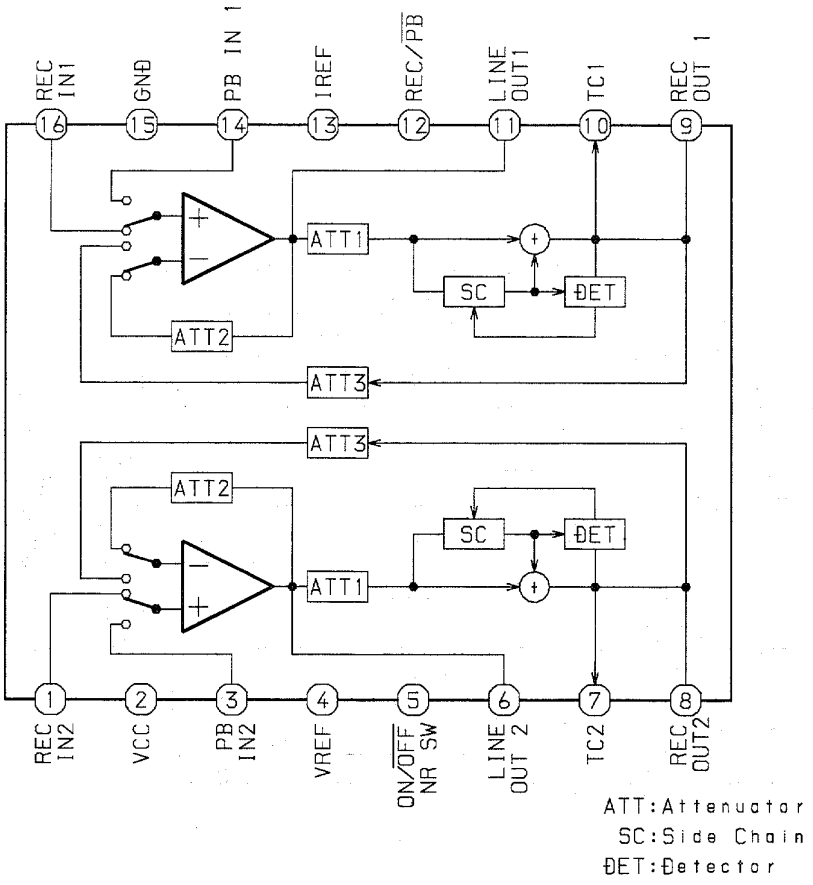
IC, LA1837



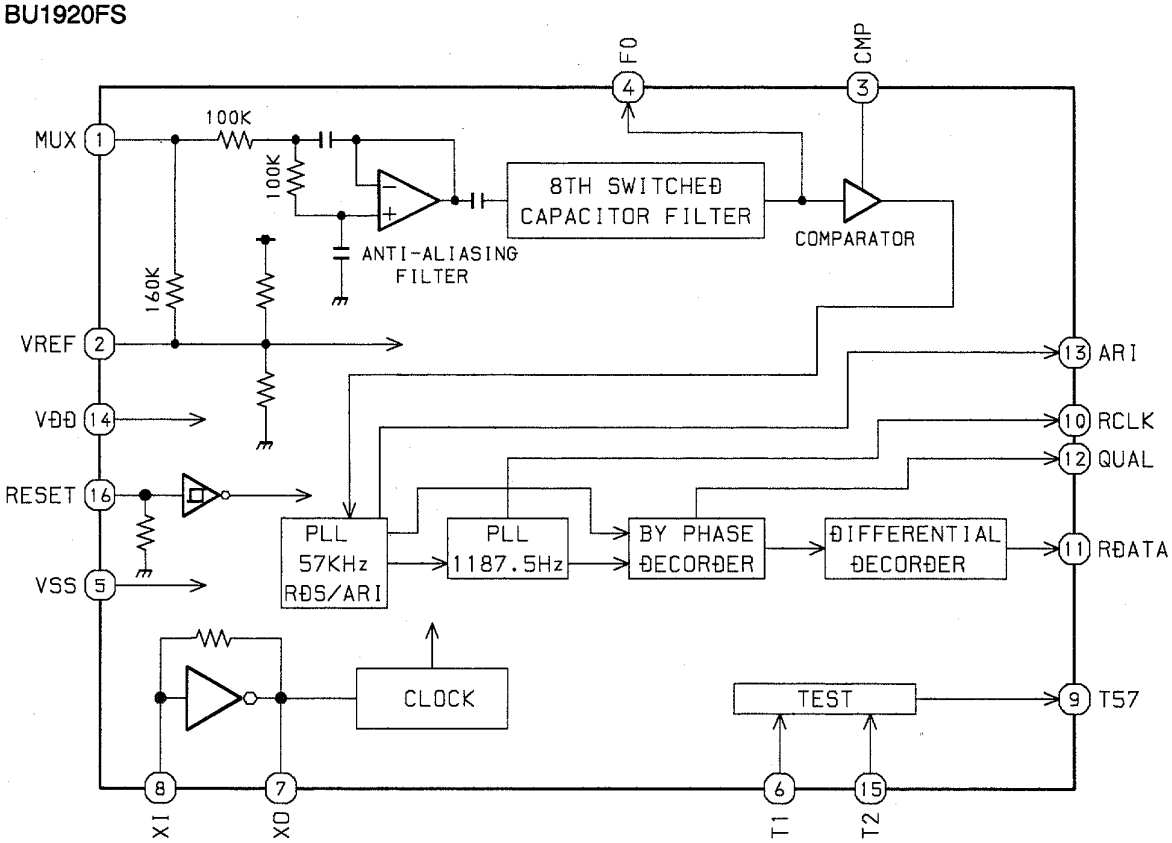
IC, BU9262 AFS



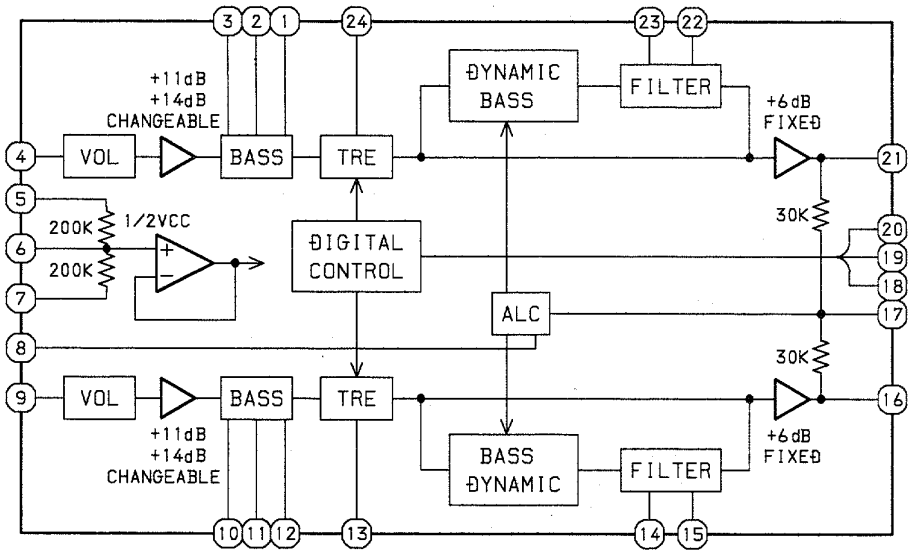
IC, CXA1553P

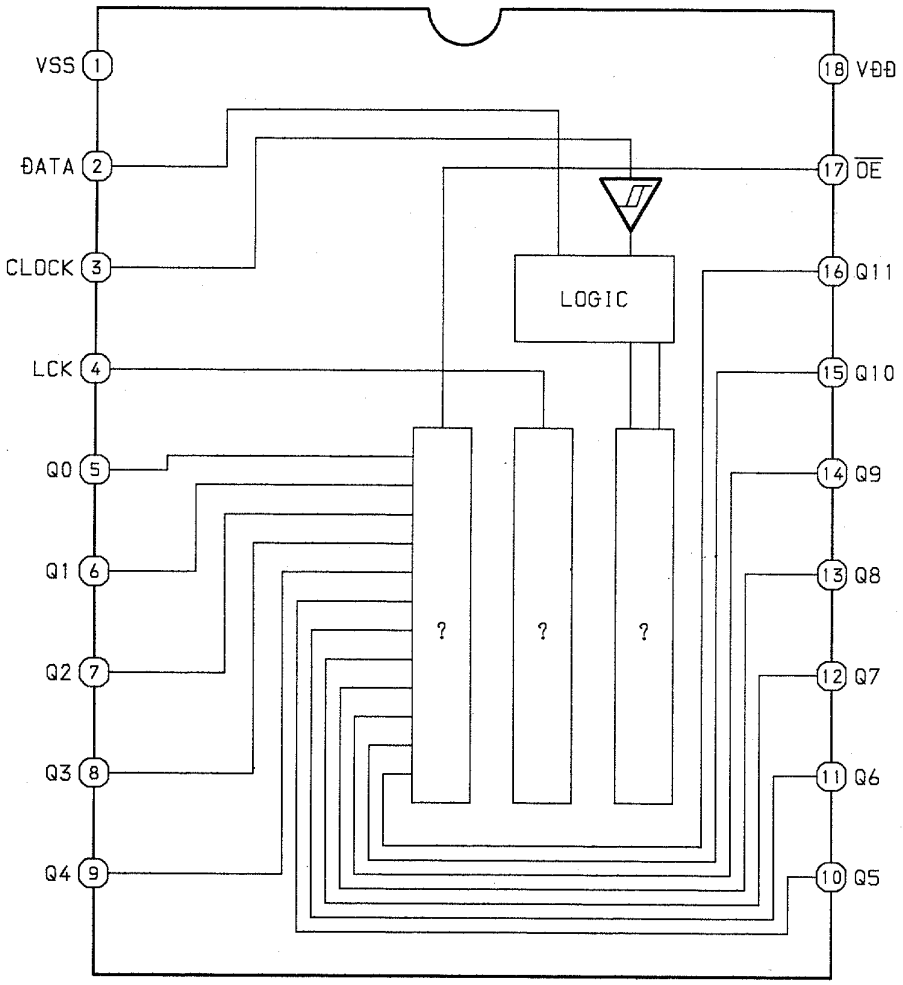


IC, BU1920FS



IC, BH3864F




VSS 1
DATA 2
CLOCK 3
LCK 4
Q0 5
Q1 6
Q2 7
Q3 8
Q4 9
18 VDD
17 OE
16 Q11
15 Q10
14 Q9
13 Q8
12 Q7
11 Q6
10 Q5
LOGIC
?
?
?

IC DESCRIPTION

IC, LC866548V-5E54

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 $\overline{\text{ON}}$/OFF output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED $\overline{\text{ON}}$/OFF output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED $\overline{\text{ON}}$/OFF output.
6	$\overline{\text{LED-TUNER}}$	O	"TUNER" LED $\overline{\text{ON}}$/OFF output.
7	$\overline{\text{LED-TAPE}}$	O	"TAPE" LED $\overline{\text{ON}}$/OFF output.
8	HSP	O	Tape deck motor high speed ON/$\overline{\text{OFF}}$ output.
9	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
10	O-MUTE	O	System mute ON/$\overline{\text{OFF}}$ 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	I-TU-SIG/$\overline{\text{MS}}$	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/DOLBY-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	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FORNT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN,FORNT, PROLOGIC PWB.
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	$\overline{\text{LED}}$ ▶▶	O	▶▶ LED $\overline{\text{ON}}$/OFF output.
86	$\overline{\text{LED}}$ ◀◀	O	◀◀ LED $\overline{\text{ON}}$/OFF output.
87	$\overline{\text{LED}}$ ▶	O	▶ LED $\overline{\text{ON}}$/OFF output.
88	$\overline{\text{LED}}$ ◀	O	◀ LED $\overline{\text{ON}}$/OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED}}$ ■	O	■ LED $\overline{\text{ON}}$/OFF output.
92	$\overline{\text{LED}}$ ❚❚	O	❚❚ LED $\overline{\text{ON}}$/OFF output.
93	$\overline{\text{SOL 1}}$	O	DECK 1 Solenoid output.
94	$\overline{\text{SOL 2}}$	O	DECK 2 Solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/$\overline{\text{OFF}}$ 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-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

IC, LC72131

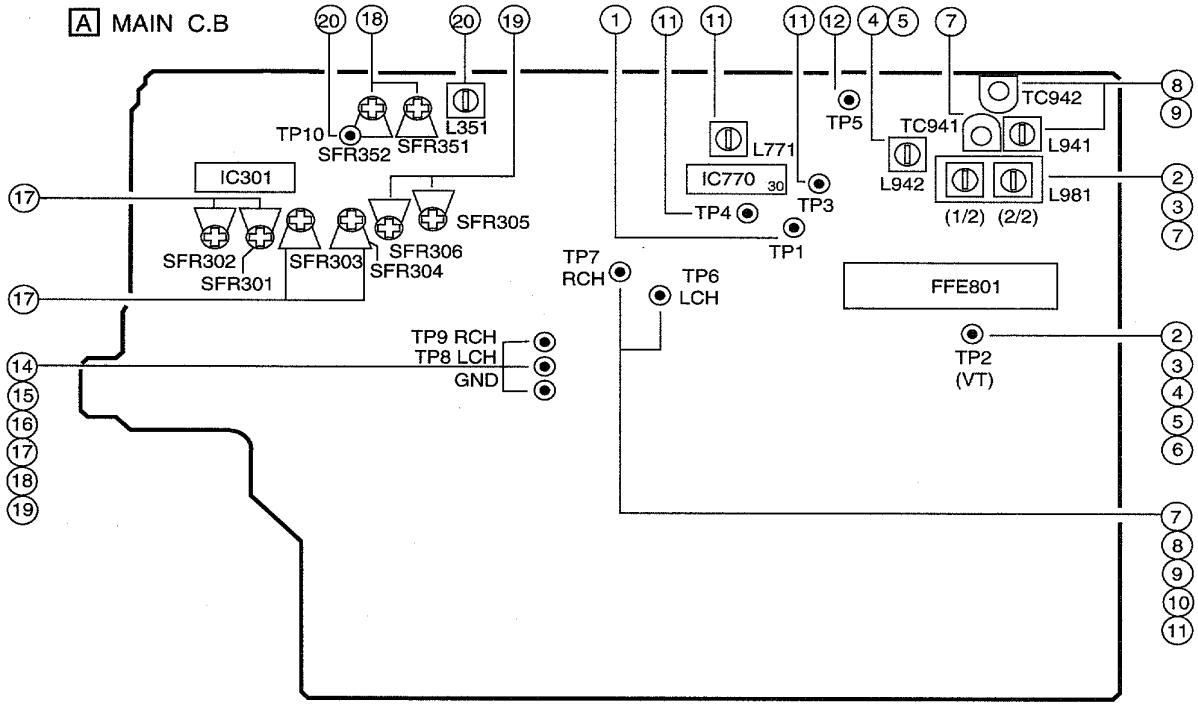
<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866548V-5E15) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866548V-5E15).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / AM</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<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>
<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>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<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>
<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>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>TUNE</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>A MIN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>F MIN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

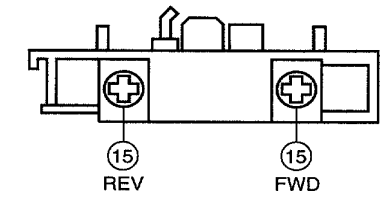
IC, NJW1102B

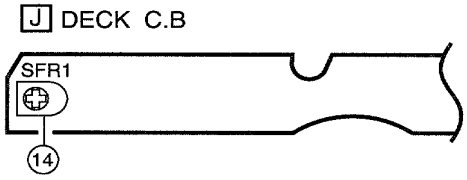
Pin No.	Pin Name	I/O	Description
1	LLI	I	L channel BPF in.
2	LBPF	O	L channel BPF feed back out.
3	RLI	I	R channel BPF in.
4	RBPF	O	R channel BPF feed back out.
5	LT	O	L channel selector #1 out.
6	RT	O	R channel selector #1 out.
7	LIN	I	L channel signal input.
8	RIN	I	R channelsignal input.
9	HOLDC	I	Auto input balance control.
10	VCC	–	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14	VDD	–	Power supply.
15	DATA	I	Serial data input.
16	SCK	I	Serial clock input.
17	REQ	I	Serial request (strobe) input.
18	IDS	I	ID select sw.
19	AUX1	O	AUX1 output (serial data change parallel output).
20	AUX2	O	AUX2 output (serial data change parallel output).
21	VSS	–	GND.
22	LOUT	O	L channel signal output.
23	ROUT	O	R channel signal output.
24	CT	O	Center channel output (before trimmer).
25	CTI	I	Center channel trimmer input.
26	CTC	O	Center channel trimmer coupling capacitor out.
27	COUT	O	Center channel trimmer output.
28	ST	O	Surround channel output (before trimmer).
29	STI	I	Surround channel trimmer input.
30	STC	O	Surround channel trimmer coupling capacitor out.
31	SOUT	O	Surround channel trimmer output.
32	SMRI	I	Surround channel amp (front L,R mix) input.
33	SMRO	O	Surround channel amp (front L,R mix) output.
34	CMC	O	Center mode control.
35	SD	O	Selector #2 output (to surround channel delay).
36	SIMB	I	Selector #2 input B (L-R).
37	SIMA	I	Selector #2 input A (L+R).
38	L+R	O	L+R channel output.
39	L-R	O	L-R channel output.
40	GND	–	Ground.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.

44	DBIN	I	To modify B NR decoder input.
45	LPIN	I	From surround channel delay input.
46~48	DBC 1~3	I	Dolby B NR control 1~3.
49	NC	–	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	–	Not used.

ADJUSTMENT - 1 <TUNER / DECK>







< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP1 (CLK IC770 pin30)
   Method : Set to MW 1710kHz (HE,LH,U), 1602kHz (EZ), and check that the test point is 2160kHz ± 45Hz (HE,LH,U), 2052 ±0.045kHz (EZ).

2. MW VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981 (1/2)
   Method : Set to MW 1710kHz (HE), 531kHz (EZ) and adjust L981 (1/2) so that the test point is 8.5V ± 0.05V (HE), 1.5V ± 0.05V(EZ).

3. MW VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW 530kHz (HE), 1710kHz (U,LH), 1602kHz (EZ) and check that the test point is more than 0.3 (HE), 6.0V ± 1.0V (U,LH), less than 8.5 (EZ).

4. SW VT Adjustment <HE>
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point is 7.0V ± 0.05V.

5. LW VT Adjustment <EZ>
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V ± 0.05V.

6. FM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.5V (108.0MHz).

7. MW Tracking Adjustment <HE>
   Settings : • Test point : TP6,TP7
   • Adjustment location :
   L981 (2/2) 600kHz
   TC941 ..... 1400kHz
   Method : Set up TC941 to center before adjustment, the level at 600kHz is adjust to maxmum by L981 (2/2). Then the level at 1400kHz is adjust to maximum by TC941.

8. SW Tracking Adjustment <HE>
Settings : • Test point : TP6,TP7
• Adjustment location :
L941 ..... 5.9MHz
TC942 ..... 17.9MHz
Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC942.

9. LW Tracking Adjustment <EZ>
Settings : • Test point : TP6, TP7
• Adjustment location :
L941 .....144kHz
TC942 ..... 290kHz
Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to maximum by L941. Then the level at 290kHz is adjust to maximum by TC942.

10. FM Tracking Check
Settings : • Test point : TP6, TP7
Method : Set to FM 98.0MHz , and check that the test point is 2 ± 6dB (HE,LH,U), 6 ± 6dB (EZ).

11. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
: TP6, TP7 (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 ± 0.04V.
Next, check that the distortion is less than 1.3%.

12. Auto Stop Level Check
Settings : • Test point : TP5
• Input level : Variable
Method : Set to FM 98.0MHz and check voltage low (about 0.1V). After that voltage high (about 7.0V) by 2dB down and the level is 25 ± 10dB.

13. Auto Stop Level Check

SW<HE>
• Input level : Variable
Method : Check auto stop at SW 12MHz and the level is less than 60dB.

MW
• Input level : Variable
Method : Check auto stop at MW 999kHz (HE,EZ), MW 1000kHz (U,LH) and the level is 50 +10/-15dB.

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

< DECK SECTION >

14. Tape Speed Adjustment
Settings : • Test tape : TTA–100
• Test point : TP8, TP9
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

15. Head Azimuth Adjustment
Settings : • Test tape : TTA–300
• Test point : TP8, TP9
• 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.

16. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA–300
• Test point : TP8, TP9
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 ±2dB.

17. PB Sensitivity Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA–200
• Test point : TP8, TP9
• 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.

18. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA–602
• Test point : TP8, TP9
• 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 TP8, TP9 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

19. REC/PB Sensitivity Adjustment
Settings : • Test tape : TTA–602
• Test point : TP8, TP9
• 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 TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and adjust SFRs so that the output becomes 17mV ± 0.5dB.

20. 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 ± 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	4dB ± 6dB (U,LH,HE)
(THD 3%)	[at 87.5 / 98.0 / 108.0MHz (U,LH,HE)]
	6dB ± 6dB (EZ)
	[at 87.5 / 98.0 / 108.0MHz (EZ)]
S/N 50dB Quieting sensitivity :	
	30dB ± 6dB (U,LH,HE)
	[at 87.5 / 98.0 / 108.0MHz (U,LH,HE)]
	34dB ± 6dB (EZ)
	[at 87.5 / 98.0 / 108.0MHz (EZ)]
Signal to noise ratio :	Mono : More than 65dB (U,LH,HE)
	More than 60dB (EZ)
	Stereo : More than 64dB (U,LH,HE)
	More than 57dB (EZ)
	[at 98.0MHz]
Distortion :	Mono : Less than 1.3%
	Stereo : Less than 2.0%
	[at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	U,LH,HE : More than 25dB [at 98.0MHz]
	EZ : More than 22dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity :	50 ~ 60dB
(S/N 20 dB)	[at 600kHz(U,LH)]
	[at 603kHz(HE,EZ)]
	48 ~ 58dB
	[at 1000kHz(U,LH)]
	[at 999kHz(HE,EZ)]
	48 ~ 58dB
	[at 1400kHz(U,LH)]
	[at 1404kHz(HE,EZ)]
Signal to noise ratio :	More than 36dB
	[at 1000kHz(U,LH)]
	[at 999kHz(HE,EZ)]
Distortion :	Less than 1.5%
	[at 1000kHz(U,LH)]
	[at 999kHz(HE,EZ)]
Auto stop level :	50dB +10/-15dB
	[at 1000kHz(U,LH)]
	[at 999kHz(HE,EZ)]
Intermediate frequency :	450kHz

<LW SECTION> (EZ)

Sensitivity :	61 ~ 71dB
(S/N 20 dB)	[at 144kHz]
	58 ~ 68dB
	[at 198kHz]
	58 ~ 68dB
	[at 290kHz]
Signal to noise ratio :	More than 36dB
	[at 198kHz]
Distortion :	Less than 1.2%
	[at 198kHz]
Auto stop level :	66dB +10/-15dB
	[at 198kHz]
Intermediate frequency :	450kHz

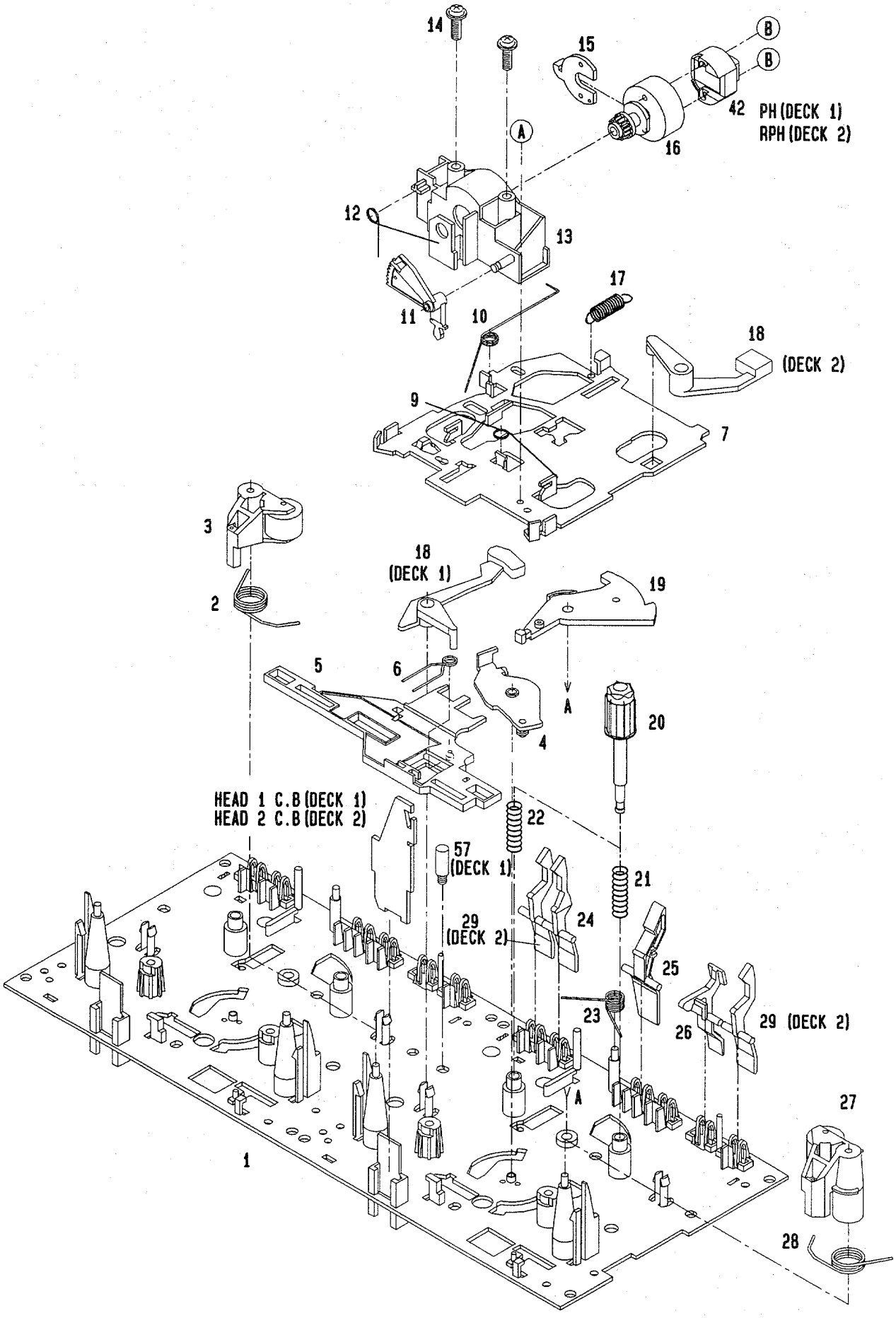
<SW SECTION> (HE)

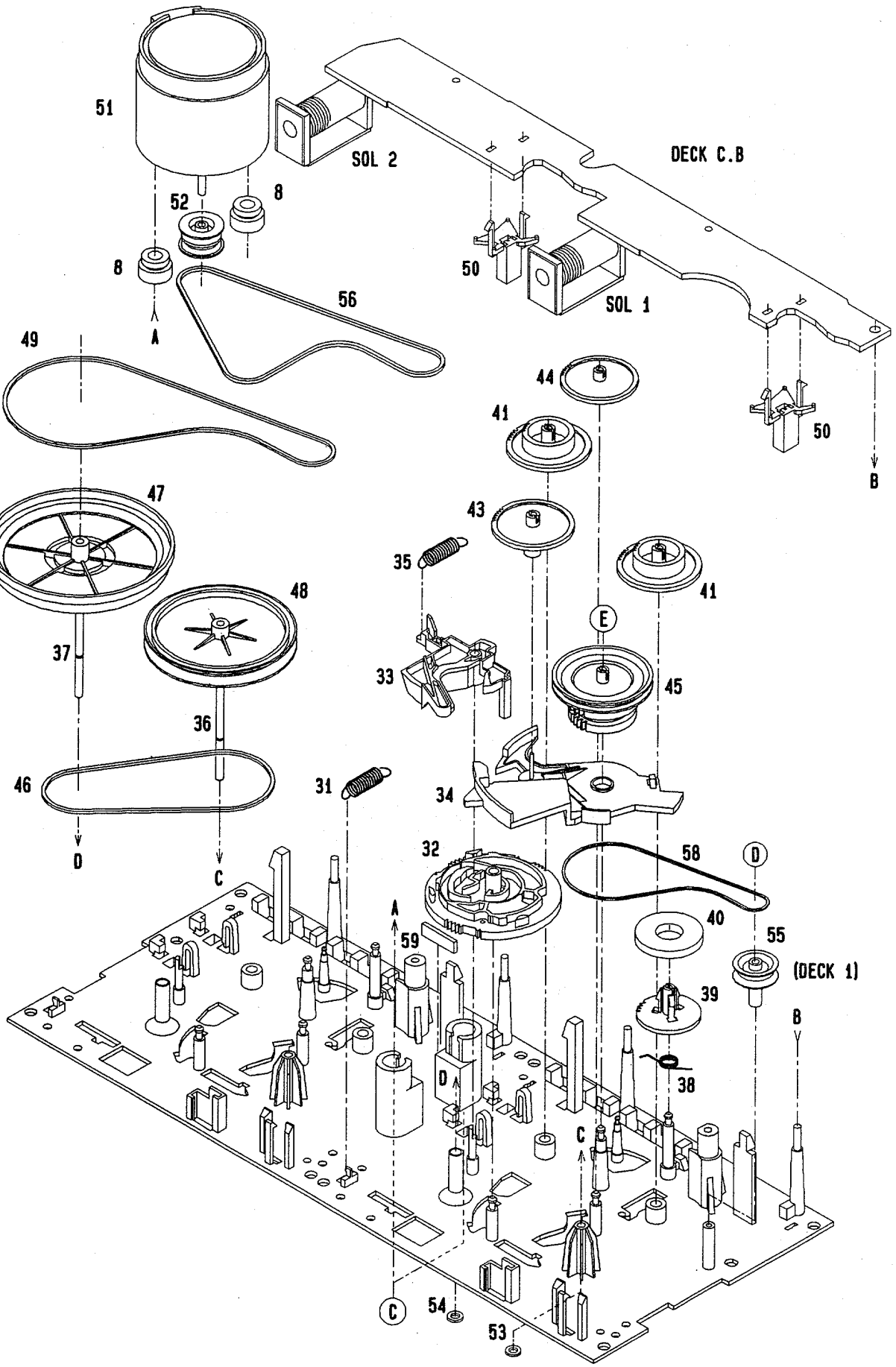
Sensitivity :	38 ± 5dB
(S/N 20 dB)	[at 5.9MHz]
	33 ± 5dB
	[at 12.0 MHz]
	30 ± 5dB
	[at 17.9MHz]
Signal to noise ratio :	More than 36dB
	[at 12.0MHz]
Distortion :	Less than 2.0%
	[at 12.0MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15%
	(W.R.M.S)
Take-up torque :	30 ~ 55g-cm
	(FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm
	(FWD, REV)
PB output level :	300mV± 1dB
	(SP OUT 2V)
REC/PB output level :	170mV ± 1dB
	(SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
	(NORM, CrO_2)
Noise level (REC/PB) :	Less than 1.8mV
	(NORM, SP OUT 2V, DOLBY OFF)
	Less than 1.1mV
	(CrO_2, SP OUT 2V, DOLBY B,C ON)
Crosstalk :	More than 60dB
	(1kHz, 0VU)
Channel separation :	More than 30dB
	(1kHz, 0VU)
Erasing ratio :	More than 30dB
	(at 125Hz)
Test tape :	TTA-602 (NORMAL)
	TTA-615 (CrO_2)

TAPE MECHANISM EXPLODED VIEW 1/1




51
SOL 2
DECK C.B
52
8
8
A
56
50
SOL 1
49
44
41
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B
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48
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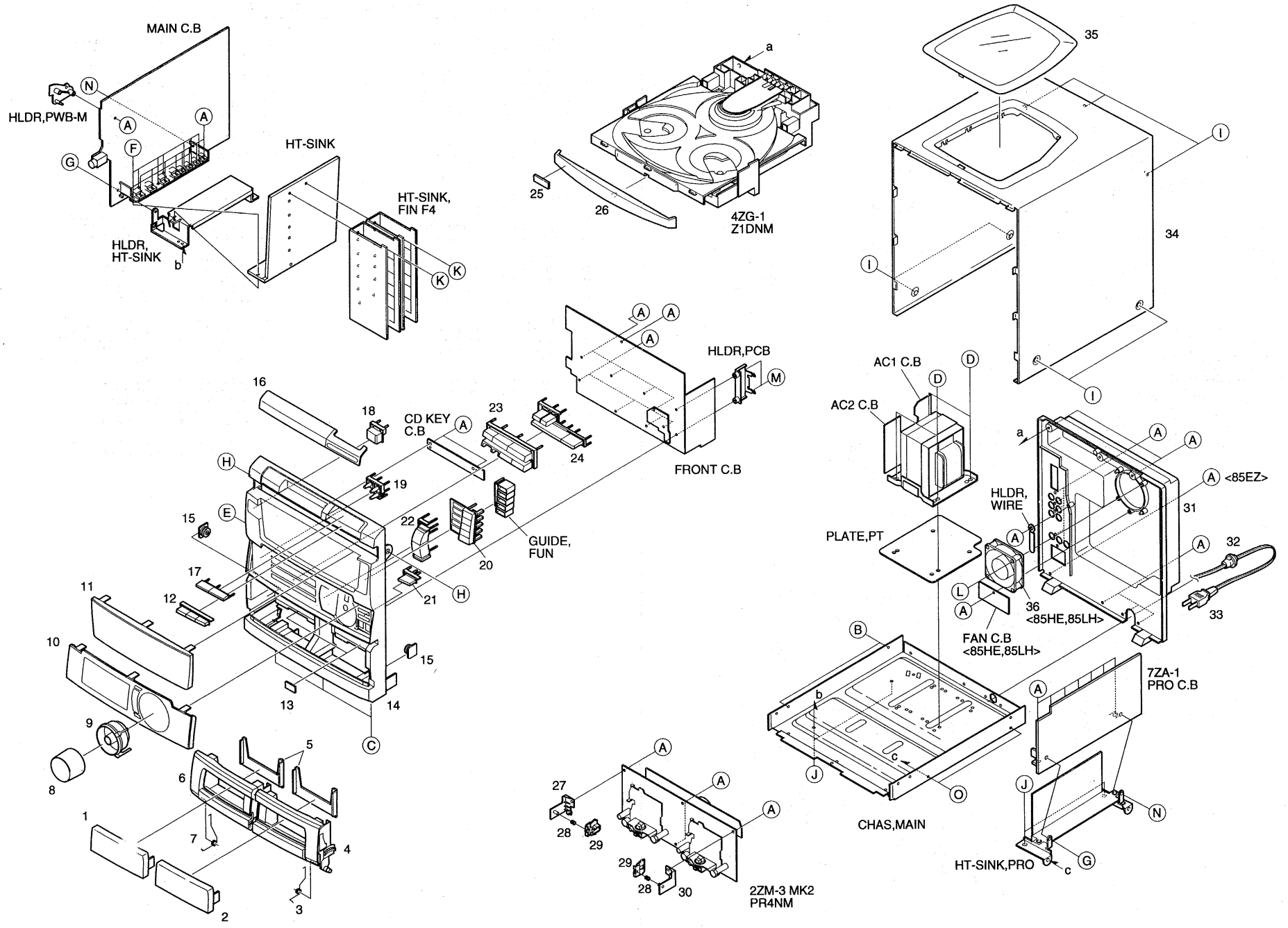
31
34
D
C
32
58
D
A
40
55
59
(DECK 1)
39
B
38
D
C
C
54
53

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
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

MECHANICAL EXPLODED VIEW 1/1

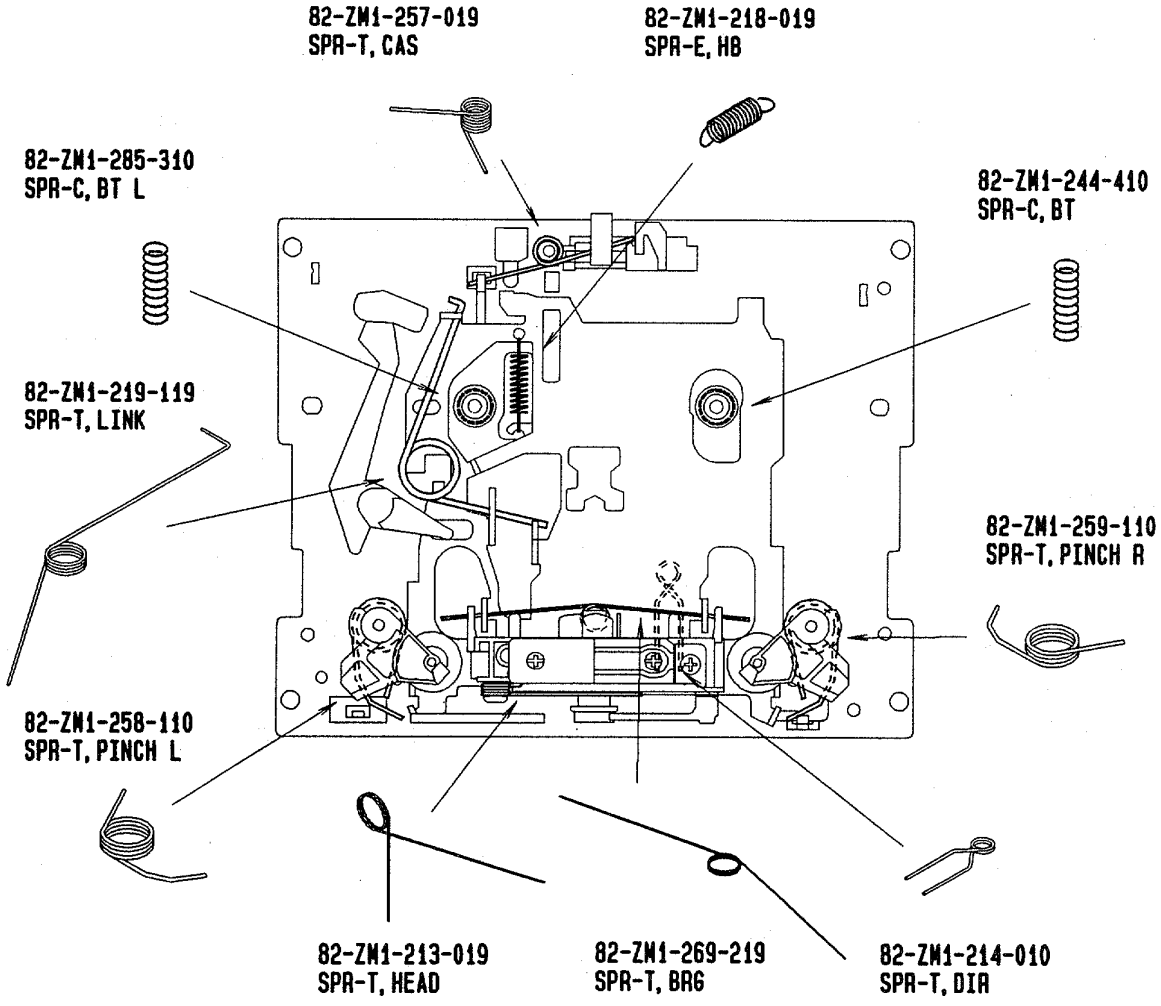


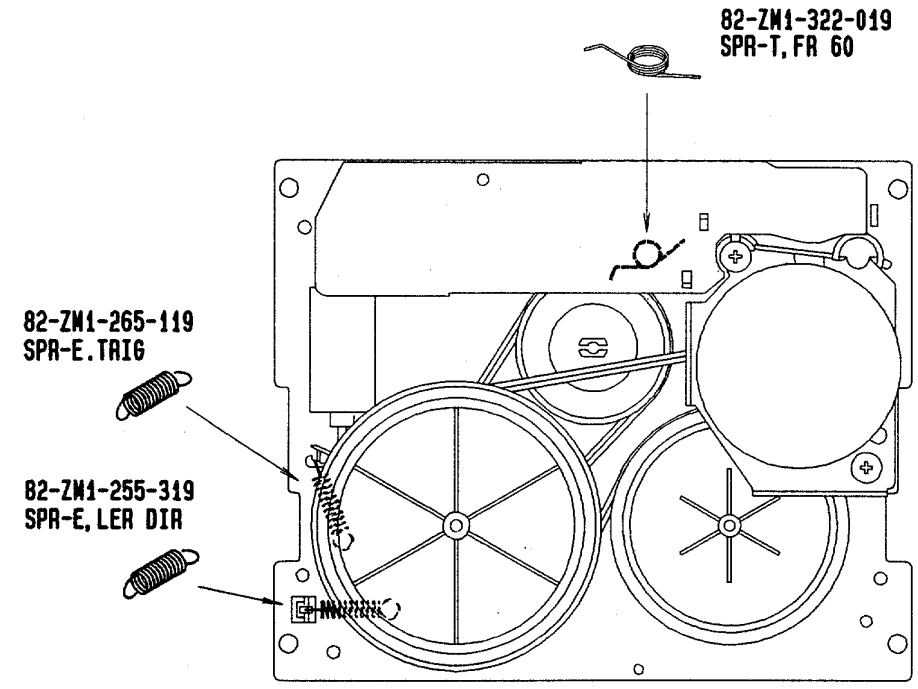
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF5-010-010		WINDOW,CASS 1
2	87-NF5-011-010		WINDOW,CASS 2
3	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
4	87-NF5-004-010		BOX,CASS 2H
5	86-NF6-061-010		REFLECTOR,CASS
6	87-NF5-003-010		BOX,CASS 1H
7	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
8	87-NF5-023-010		KNOB,RTRY VOL
9	87-NF5-007-010		RING,VOL
10	87-NF5-002-010		PANEL,FR H
11	87-NFS-009-010		WINDOW,DISP E<85EZ>
11	87-NFS-007-010		WINDOW,DISP H<EXCEPT 85EZ>
12	87-NF5-016-010		KEY,DISC
13	81-532-080-010		LABEL, CASS. COMPT
14	87-NFS-003-010		CABI,FR EZ<85EZ>
14	87-NFS-001-010		CABI,FR H<85HE,85LH>
14	87-NFS-002-010		CABI,FR U<70U>
15	87-063-165-010		OIL-DMPR 150
16	87-NF5-008-010		WINDOW,CD
17	87-NF5-015-010		KEY,OPEN
18	87-NF5-017-010		KEY,POWER
19	87-NF5-019-010		KEY,DEMO
20	87-NF5-018-010		KEY,FUN
21	87-NF5-020-010		KEY,VF
22	87-NFS-005-010		KEY,PRO
23	87-NF5-024-010		KEY,ASSY OPE
24	87-NF5-021-010		KEY,EDIT<EXCEPT 85EZ>
24	87-NF5-052-010		KEY,RDS<85EZ>
25	82-NE6-067-010		BADGE,AIWA 30N
26	87-NF5-005-010		PANEL,TRAY H
27	87-NF4-216-010		HLDR,LOCK 1
28	82-NF5-228-010		SPR-C,LOCK
29	82-NF5-229-010		PLATE,LOCK
30	87-NF4-217-010		HLDR,LOCK 2
31	87-NFS-019-110		CABI,REAR EZSTNM<85EZ>
31	87-NFS-017-110		CABI,REAR HEST<85HE>
31	87-NFS-018-110		CABI,REAR LHST<85LH>
31	87-NFS-016-210		CABI,REAR UST<70U>
32	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT 70U>
32	87-085-189-010		BUSHING, CORD (U)<70U>
⚠ 33	87-050-053-010		AC CORD ASSY,U-2<70U>
⚠ 33	87-050-079-010		AC-CORD ASSY,E<EXCEPT 70U>
34	86-NH6-029-110		CABI,STEEL H-J TS<EXCEPT 85EZ>
34	86-NFT-005-110		CABI,STEEL TS<85EZ>
35	86-NF6-007-010		WINDOW,TOP<EXCEPT 70U>
35	86-NF6-101-010		WINDOW,TOP UL<70U>
36	87-A90-463-010		FAN,2408NL<85HE,85LH>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-591-094-410		TAPPING SCREW, QIT+3-6
C	87-067-688-010		BVTT+3-6
D	87-078-191-010		S-SCREW,IT+4-10
E	87-723-096-410		QT2+3-10W/O SLOT BL
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-633-010		TAPPING SCREW, BVT2+3-8
H	87-721-097-410		QT2+3-12 GLD
I	87-067-641-010		UTT2+3-8(W/O SLOT)BL
J	87-067-584-010		TAPPING SCREW, BVT2+3-6
K	87-067-690-010		BVIT3B+3-12 BLK
L	87-751-104-410		VT2+3-30<85HE,85LH>
M	87-067-581-010		TAPPING SCREW, BVT2+3-15
N	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
O	87-721-096-410		QT2+3-10 GLD

SPRING APPLICATION POSITION



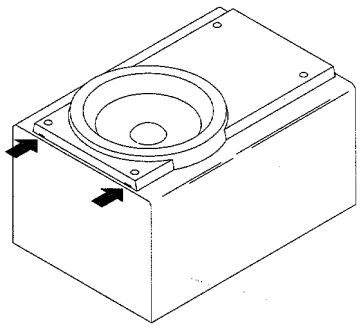


SPEAKER DISASSEMBLY INSTRUCTIONS

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。

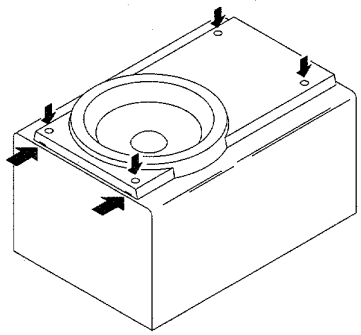
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



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。

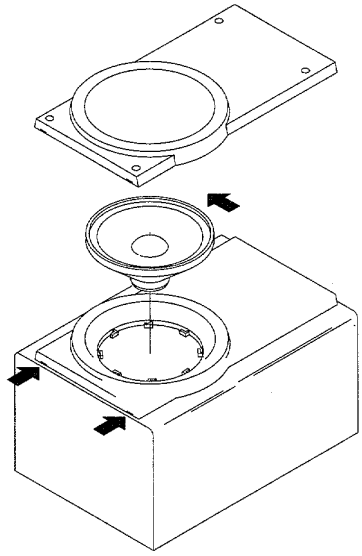
Remove the grill frame and four pieces fo rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



Type.3

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

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SPEAKER PARTS LIST (SX-NA74 <YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSE-001-010		PANEL,FR R
2	87-NSE-002-010		PANEL,FR L
3	87-NSF-003-010		PANEL,DUCT R
4	87-NSF-004-010		PANEL,DUCT L
5	87-NSE-012-010		GRILLE,FRAME ASSY R
6	87-NSE-014-010		GRILLE,FRAME ASSY L
7	87-NSF-602-010		SPKR,W 160
8	87-NSE-604-019		SPKR,T 80
9	87-NSF-610-019		SPKR,CORD

SPEAKER PARTS LIST (SX-R210<YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-VS3-019-010		GRILLE FRAME ASSY B<YUAST>
1	83-VS3-004-010		GRILLE FRAME ASSY<YUST>
2	83-VS3-601-010		SPEAKER
3	81-VSA-010-010		SPEAKER,CORD

SPEAKER PARTS LIST (SX-C400<YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-111-010		PANEL,FR ST
2	85-NSY-010-010		GRILLE FRAME ASSY<YUST>
2	85-NSY-017-010		GRILLE FRAME ASSY B<YUAST>
3	85-NSY-602-010		SPEAKER
4	83-NSM-010-010		SPEAKER,CORD

SPEAKER PARTS LIST (SX-NAV85 <YJT,YLT,YT,Y1T,YB>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSR-001-010		PANEL,FR R
2	87-NSR-002-010		PANEL,FR L
3	87-NSR-003-010		PANEL,TW
4	87-NSR-009-010		GRILLE,FRAME ASSY
5	83-096-614-010		SPEAKER CODE
6	87-NSU-610-010		TERMINAL,ASSY
7	87-NSS-602-010		SPKR,W 160
8	87-NSR-604-019		SPKR,T 80

SPEAKER PARTS LIST (SX-C423 <YJ, Y>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-017-010		GRILLE FRAME ASSY B (C400<YJA,YA,YJ7A>)
1	85-NSY-010-010		GRILLE FRAME ASSY (C400<EXCEPT YJA,YA,YJ7A>)
2	85-NSY-001-010		PANEL,FR (C400<YJB,YB,YJ7B>)
2	85-NSY-011-010		PANEL,FR ST (C400<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
3	85-NSY-002-010		PANEL,REAR (C400<YJB,YB,YJ7B>)
3	85-NSY-012-010		PANEL,REAR ST (C400<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
4	85-NSY-602-010		SPEAKER (C400)
5	83-NSM-010-010		SPEAKER,CORD (C400)
6	85-NSX-015-010		GRILLE FRAME ASSY B (R230<YJA,YA,YJ7A>)
6	85-NSX-005-010		GRILLE FRAME ASSY (R230<EXCEPT YJA,YA,YJ7A>)
7	85-NSX-001-010		PANEL,FR (R230<YJB,YB,YJ7B>)
7	85-NSX-009-010		PANEL,FR (R230<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
8	85-NSX-002-010		PANEL,REAR (R230<YJB,YB,YJ7B>)
8	85-NSX-010-010		PANEL,REAR (R230<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
9	85-NSX-601-010		SPEAKER (R230)
10	81-VSA-010-010		SPEAKER,CORD(R230)

SPEAKER PARTS LIST (SX-R270 <YS,YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-004-019		GRILLE,FRAME ASSY
2	81-VSA-010-019		SPKR,CORD
3	85-NSX-601-019		SPKR,100

SPEAKER PARTS LIST (SX-C600 <YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-019		PANEL,FR ST
2	87-YS3-002-019		PANEL,REAR ST
3	87-YS3-003-019		GRILLE,FRAME ASSY
4	85-NSY-602-019		SPKR,10
3	83-NSM-010-019		SPKR,CORD

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-NFS-903-010		IB,U(ESF)M-71<USTNM>
1	87-NFS-910-010		IB,U(ESF)I<UST>
1	87-NFS-901-010		IB,H(ECA)M<HEJSTNM>
1	87-NFS-911-010		IB,H(ECA)I<HEST>
1	87-NFS-916-010		IB,E(EGFSI)M<ESTNM>
1	87-NFS-906-010		IB,E(EGFSI)E<ESTNE>
1	87-NFS-902-010		IB,LH(ES)M<LHSTNM>
1	87-NFS-912-010		IB,LH(ES)I<LHST>
2	87-NB7-651-010		RC UNIT,RC-7AS08
3	87-A90-064-010		FEEDER-ANT,FM (SHS)<EXCEPT EZ>
3	87-043-106-010		ANT,FM 1007 AWG<EZ>
⚠ 4	87-099-789-010		PLUG,CONVERSION IR44<HESTNM,LHSTNM>
⚠ 4	87-A90-312-010		PLUG,CONVERSION WTN-1157RI <HEST,LHST>
5	87-006-225-010		ANT,LOOP ANT NC2<EXCEPT HE>
5	87-A90-054-010		ANT,LOOP AM-CON C<HE>
6	87-043-095-010		ANT,WIRE<HE>

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

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