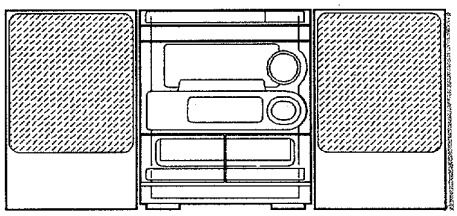
aiwa

aiwa SERVICE

NSX-AV75
NSX-NMT50
NSX-NMT55

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG–1 Z1DNM / Z1MD
- TYPE : EZ,K,LH,HR<AV75>, U<NMT50/55>

SYSTEM	SUB WOOFER	CD – CASSEIVER	SPEAKER
NSX–AV75 (TYPE : EZ,K,LH,HR)	NIL	CX – NAV75	SX – NAV75 SX– CR423
NSX–NMT50 (TYPE : U)	TS-WS35 (OPTIONAL)	CX – NMT50	SX – NA54 SX – R210 SX– C400
NSX–NMT55 (TYPE : U)	TS-WS35		

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T.
- If requiring information about the Sub woofer, see Service Manual of TS-WS35, S/M Code No. 09-976-204-00I.

S/M Code No. 09–976–188–4FE

TABLE OF CONTENTS

SPECIFICATIONS (U,LH,HR)

<FM tuner section>
Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

<AM/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> HR :
Tuning range 5.900 MHz to 17.900 MHz
Antenna Wire antenna

<Amplifier section>
Power output

Front
U :
60 W + 60 W (50 Hz – 20 kHz, THD less than 1%, 6 ohms)
LH,HR :
Rated : 75 W + 75 W
(6 ohms, T.H.D. 1 %, 1 kHz)
Reference : 100 W + 100 W
(6 ohms, T.H.D. 10 %, 1 kHz)
Rear (Surround)
U :
10 W + 10 W (1 kHz, THD less than 1%, 16 ohms)
LH,HR :
Rated :10 W + 10 W (1 kHz, T.H.D 1%,16 ohms)
Reference :12.5 W + 12.5 W
(1 kHz, T.H.D.10%,16 ohms)
Center
U :
20 W (1 kHz, THD less than 1%, 8 ohms)
LH,HR :
Rated : 20 W (1 kHz, T.H.D. 1%,8 ohms)
Reference : 25 W (1 kHz, T.H.D. 10%,8 ohms)

Total harmonic distortion U :
0.05 % (50 W, 1 kHz, 6 ohms, DIN AUDIO)
LH,HR :
0.05 % (60 W, 1 kHz, 6 ohms, DIN AUDIO)

Inputs U :
VIDEO/AUX : 150 mV (adjustable)
MD : 150 mV (adjustable)
MIC 1, MIC 2 : 1 mV (10 kohms)
LH,HR :
VIDEO /AUX : 210 mV (adjustable)
MD : 210 mV (adjustable)
MIC 1, MIC 2 : 1.4 mV (10 kohms)

Outputs LINE OUT : 200 m V
U :
SUPER WOOFER : 1.9 V
LH,HR :
SUPER WOOFER : 2.1 V
SPEAKERS: accept speakers of 6 ohms or more
SURROUND SPEAKERS : accept speakers of 16 ohms or more
CENTER SPEAKERS : 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 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 (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

<Speaker system SX–NA54> U :
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 227 mm
($9^5/_8$ x 12 x 9 in.)
Weight 3.3 kg (7 lbs 4 oz.)

<Speaker system SX–NAV75> LH,HR :
Cabinet type 2 way, bass reflex (magnetic shielded type)
Speakers Woofer :
160 mm cone type
Tweeter :
60 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 4.2 kg

<General>
Power requirements U :
120 V AC, 60Hz
LH,HR :
120 V/ 220 – 230V / 240 V AC, switchable ,50 / 60 Hz
Power consumption U : 120 W
LH,HR : 160 W
Dimensions of main unit (W x H x D) 260 x 309 x 346 mm
($10^1/_4$ x $12^1/_4$ x $13^5/_8$ in.)
Weight of main unit U : 7.5 kg (16 lbs 9 oz.)
LH,HR : 8.2kg

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.
- Manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS (EZ,K)

<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 µV/m
Antenna	Loop antenna

<LW Tuner section>

Tuning range	144 kHz ~ 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** Rated : 60 W + 60 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference : 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) EZ : DIN MUSIC POWER:150 W + 150 W **Surround (Rear)** EZ.K : 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) **Center** Rated : 20 W (8 ohms, T.H.D. 1% 1 kHz/DIN 45500) Reference : 25 W (8 ohms, T.H.D 10%, 1 kHz/DIN 45324) EZ : DIN MUSIC POWER: 50 W
Total harmonic distortion	0.05 % (55 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 150 mV (adjustable) MD : 150 mV (adjustable) MIC 1, MIC 2 : 1 mV (10 kohms)
Outputs	LINE OUT : 200 m V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more CENTER SPEAKERS : 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	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 (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

<Speaker system SX-NAV75>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 60 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	4.2 kg

<General>

Power requirements	230 V AC, 50Hz
Power consumption	160 W
Dimensions of main unit (W x H x D)	260 x 309 x 363 mm
Weight of main unit	8.2 kg

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- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
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- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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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 laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

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

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 herein may result in hazardous radiation exposure.

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

ADVARSEL!
Usynlig 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

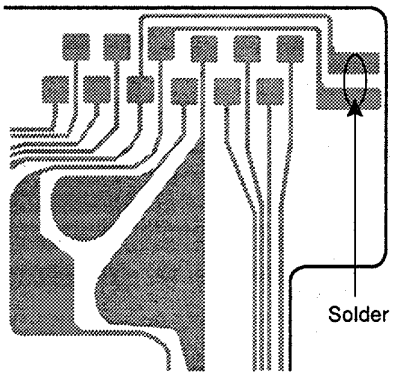
Precaution to replace Optical block

(KSS – 213B)

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

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

PICK-UP Assy P.C.B



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-NF4-642-010		IC,LC866548V-5E54
	87-A20-501-040		C-IC,BA7762FS<EXP EZ,K>
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-056-010		IC,BA3880S
	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
	87-020-454-010		IC,DN6851
	87-070-289-040		C-IC,BU2092F
	87-A20-355-010		IC,CXA1553P<EZ,K>
	87-A20-455-010		IC,HA12211<EZ,K>
	87-A20-440-040		IC,BU1920FS<EZ>
	87-070-083-010		IC,GPIU281X
	87-A20-453-010		C-IC,NJW1102B
	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-Q10		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-TR,2SK543-TB (4/5)<EZ,K,HR>
	87-026-463-080		TR,2SA933S
	87-026-232-080		C-TR,DTA144WK
	87-A30-112-080		TR,C2N5551
	89-420-612-010		TR,2SD2061E
DIODE			
	87-A40-270-080		C-DIODE,MC2838
	87-A40-116-060		DIODE,RS403L-B-D-51<U,EZ,K>
	87-A40-115-060		DIODE,RS603M<EXP U>
	87-017-437-080		DIODE,1N4148M
	87-A40-246-080		DIODE,1N4148T-72
	87-A40-269-080		C-DIODE,MC2836
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-344-080		ZENER,MTZJ6.2C
	87-A40-341-080		ZENER,MTZJ36A
	87-A40-345-080		ZENER,MTZJ10C
	87-070-136-080		ZENER,MTZJ5.1B
	87-070-178-090		DIODE,1N5402-BD54
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-003-080		ZENER,MTZJ4.3A
	87-A40-202-080		ZENER,UZ5.6BSB
	87-A40-234-080		ZENER,MTZJ5.6A

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
	88-906-241-110		FF-CABLE,6P 1.25
C101	87-010-917-090		CAP,E 3300-50 M SMG<U,EZ,K>
C101	87-016-520-090		CAP,E 3300-65 M SMG<LH,HR>
C102	87-010-917-090		CAP,E 3300-50 M SMG<U,EZ,K>
C102	87-016-520-090		CAP,E 3300-65 M SMG<LH,HR>
C103	87-010-928-090		CAP,E 4700-25 M SMG
C104	87-010-928-090		CAP,E 4700-25 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	87-010-384-080		CAP,E 100-25 M SME<U>
C113	87-010-247-080		CAP,E 100-50 M SME<EZ,K,LH,HR>
C116	87-010-384-080		CAP,E 100-25 M SME<U>
C116	87-010-247-080		CAP,E 100-50 M SME<EZ,K,LH,HR>
C117	87-010-430-080		CAP,E 100-63 M SME
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 SME<U>
C123	87-010-247-080		CAP,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	87-012-369-080		C-CAP,S 0.047-50 Z F<EZ,K>
C127	87-012-369-080		C-CAP,S 0.047-50 Z F<EZ,K>
C129	87-010-393-080		CAP,E 100-35 M SME
C201	87-010-401-080		CAP,E 1-50 M SME
C202	87-010-401-080		CAP,E 1-50 M SME
C205	87-010-181-080		C-CAP,S 1800P-50K B<EZ,K>
C205	87-010-182-080		C-CAP,S 2200P-50K B<U>
C205	87-010-180-080		C-CAP,S 1500P-50K B<LH,HR>
C206	87-010-181-080		C-CAP,S 1800P-50K B<EZ,K>
C206	87-010-182-080		C-CAP,S 2200P-50K B<U>
C206	87-010-180-080		C-CAP,S 1500P-50K B<LH,HR>
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 C2012
C219	87-012-368-080		C-CAP,S 0.1-50 Z F
C220	87-012-368-080		C-CAP,S 0.1-50 Z F
C221	87-012-368-080		C-CAP,S 0.1-50 Z F
C222	87-012-368-080		C-CAP,S 0.1-50 Z F
C223	87-010-194-080		C-CAP,S 0.047-25 Z F
C225	87-A10-516-080		C-CAP,S 100P-200 J C
C226	87-A10-516-080		C-CAP,S 100P-200 J C
C227	87-018-134-080		CAP,TC U 0.01-16 N Y<EZ,K>
C228	87-018-131-080		CAP,TC U 1000P-50 K<EZ,K>
C229	87-016-461-080		C-CAP,S 0.47-16 Z F
C230	87-016-461-080		C-CAP,S 0.47-16 Z F
C231	87-010-176-080		C-CAP,S 680P-50 J SL<EZ,K>
C232	87-010-176-080		C-CAP,S 680P-50 J SL<EZ,K>
C235	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>
C236	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>
C237	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K>
C238	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K>
C239	87-010-318-080		C-CAP,S 47P-50 J CH<EZ,K>
C240	87-010-318-080		C-CAP,S 47P-50 J CH<EZ,K>
C242	87-010-405-080		CAP,E 10-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C243	87-010-197-080		C-CAP,S 0.01-25 K B
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
C309	87-010-196-080		C-CAP,S 0.1-25 Z F<U,LH,HR>
C310	87-010-196-080		C-CAP,S 0.1-25 Z F<U,LH,HR>
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	87-010-178-080		C-CAP,S 1000P-50 K B<U,LH,HR>
C313	87-010-180-080		C-CAP,S 1500P-50 K B<EK,Z>
C314	87-010-178-080		C-CAP,S 1000P-50 K B<U,LH,HR>
C314	87-010-180-080		C-CAP,S 1500P-50 K B<EK,Z>
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<EZ,K>
C318	87-012-142-080		C-CAP,S 0.33-16 Z F<EZ,K>
C319	87-012-141-080		C-CAP,S 0.22-16 Z F<EZ,K>
C320	87-012-141-080		C-CAP,S 0.22-16 Z F<EZ,K>
C321	87-016-492-080		C-CAP,S 0.33-16 Z F<U,LH,HR>
C321	87-012-141-080		C-CAP,S 0.22-16 Z F<EZ,K>
C322	87-016-492-080		C-CAP,S 0.33-16 Z F<U,LH,HR>
C322	87-012-141-080		C-CAP,S 0.22-16 Z F<EZ,K>
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	87-012-349-080		C-CAP,S 1000P-50 J CH
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<EZ,K>
C372	87-010-179-080		C-CAP,S 1200P-50 K B<EZ,K>
C373	87-010-993-080		C-CAP,S 0.056-25 K B<U,LH,HR>
C373	87-010-179-080		C-CAP,S 1200P-50 K B<EZ,K>
C374	87-010-993-080		C-CAP,S 0.056-25 K B<U,LH,HR>
C374	87-010-179-080		C-CAP,S 1200P-50 K B<EZ,K>
C375	87-010-545-080		CAP,0.22-50 M SME<EZ,K>
C376	87-010-545-080		CAP,0.22-50 M SME<EZ,K>
C378	87-010-196-080		C-CAP,S 0.1-25 Z F<U,LH,HR>
C379	87-010-382-080		CAP,E 22-25 M SME<U,LH,HR>
C380	87-010-382-080		CAP,E 22-25 M SME
C381	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-312-080		C-CAP,S 15P-50 J CH<U,LH,HR>
C382	87-010-318-080		C-CAP,S 47P-50 J CH<EZ,K>
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<EZ,K>
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
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
C420	87-018-209-080		CAP,TCU 0.01-16 N Y<EZ,K>
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-50J C H<EZ,K>
C602	87-010-322-080		C-CAP,S 100P-50J C H<EZ,K>
C605	87-010-180-080		C-CAP,S 1500P-50 K B
C606	87-010-180-080		C-CAP,S 1500P-50 K B
C609	87-010-322-080		C-CAP,S 100P-50J C H<EZ,K>
C610	87-010-322-080		C-CAP,S 100P-50J C H<EZ,K>
C611	87-016-081-080		C-CAP,S 0.1-16 R K<U,LH,HR>
C611	87-010-196-080		C-CAP,S 0.1-25 Z F<EZ,K>
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
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	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C630	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<EZ,K>
C631	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<EZ,K>
C632	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<EZ,K>
C633	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K>
C637	87-010-322-080		C-CAP,S 100P-50J C H<EZ,K>
C646	87-010-322-080		C-CAP,S 100P-50J C H
C647	87-010-322-080		C-CAP,S 100P-50J C H
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-50J C H<EZ,K>
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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<EXP HR>
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
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 K B<U,K,LH,HR>
C793	87-012-156-080		C-CAP,S 220P-50J CH<EZ>
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 R K
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>
C797	87-010-180-080		C-CAP,S 1500P-50 K B<EZ,K,HR>
C798	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<EZ,K,HR>
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
C861	87-012-156-080		C-CAP,S 220P-50J C H<EZ>
C864	87-010-405-080		CAP,E 10-50 M SME<EZ>
C865	87-010-196-080		C-CAP,S 0.1-25 Z F 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	87-010-316-080		C-CAP,S 22P-50 J CH<EZ>
C940	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K,HR>
C941	87-010-314-080		C-CAP,S 22P-50 J CH<HR>
C942	87-010-151-080		C-CAP,S 7P-50D C H<EZ,K>
C943	87-010-197-080		C-CAP, S 0.01-25 K B<HR>
C944	87-014-051-080		CAP,PP 560P-100 J<HR>
C945	87-010-197-080		C-CAP,S 0.01-25 K B<HR>
C947	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K,HR>
C950	87-014-073-080		CAP,PP 4700P-100 J<HR>
C952	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K,HR>
C953	87-010-197-080		C-CAP,S 0.01-25 K B<HR>
C954	87-010-400-080		CAP,E 0.47-50 M SME<HR>
C956	87-010-263-080		CAP,E 100-10 SME<HR>
C962	87-010-401-080		CAP,E 1-50 M SME<HR>
C957	87-010-311-080		C-CAP,S 12P-50J C H<EZ,K>
C958	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,K>
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,S 8P-50D C H<EXP HR>
C962	87-010-401-080		CAP,E 1-50 M SME<EZ,K>
CF801	87-008-261-010		FLTR,CFSFE10.7MA5<U,LH,HR>
CF801	87-008-423-010		FLTR,IF SFE10.7MS3G-A<EZ,K>
CF802	87-008-261-010		FLTR,CFSFE10.7MA5<U,LH,HR>
CF802	87-785-747-010		CF,MS2 GHY,R<EZ,K>
⚠ F201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F202	87-026-691-080		FUSE,10A 125V 251<U>
FFE801	A8-7ZA-293-070		7ZA-2 FEUNC<HR>
FFE801	A8-7ZA-291-030		7ZA-2 YFEUNM<U,LH>
FFE801	A8-6ZA-191-030		6ZA-1 FEENM<EZ,K>
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-A60-413-010		JACK,PIN 1P YKC21-3466
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-426-010		JACK,PIN 6P 3835
J801	87-A60-202-010		TERMINAL,ANT 4P MSP<U,LH,HR>
J801	87-A60-427-010		TERMINAL,ANT PAL 2P<EZ,K>
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	87-003-231-089		C-COIL,1UH
L770	87-005-849-080		COIL,10UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-245-010		FLTR,CFAZH-450(TOK)<U,LH,EZ,K>
L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HR>
L791	87-A50-027-010		COIL,1 POLE MPX (TOK)<EZ,K>
L792	87-A50-027-010		COIL,1 POLE MPX (TOK)<EZ,K>
L832	87-005-847-080		COIL,2.2UH K CECS
L850	87-005-847-080		COIL,2.2UH K CECS<EZ,K>
L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ,K>
L941	87-A50-022-010		COIL,ANT SW (COI)7.96MHZ<HR>
L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ,K>
L942	87-A50-173-010		COIL,OSC SW (COI)<HR>
L943	87-005-372-080		COIL,1 MHZ K LALO3<HR>
L944	87-A50-159-010		COIL,10MH K C28<HR>
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)<U,LH>
L981	87-NF4-668-010		COIL,AM PACK2(TOM)<EZ,K>
L981	87-NF4-666-010		COIL,AM PACK3(TOK)<HR>
⚠ PR201	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
⚠ PR202	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
R123	87-022-200-080		RES,M/F 0.56-1W J<U>
R229	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
R230	87-A00-257-080		RES,M/F 0.15-1W J<U,EZ,K>
R231	87-A00-257-080		RES,M/F 0.15-1W J<LH,HR>
R232	87-A00-257-080		RES,M/F 0.15-1W J<LH,HR>
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
SFR301	87-024-438-080		SFR,220K H RH063MC<U,LH,HR>
SFR301	87-024-435-080		SFR,33K H RH063MC<EZ,K>
SFR302	87-024-438-080		SFR,220K H RH063MC<U,LH,HR>
SFR302	87-024-435-080		SFR,33K H RH063MC<EZ,K>
SFR303	87-024-438-080		SFR,220K H RH063MC<U,LH,HR>
SFR303	87-024-435-080		SFR,33K H RH063MC<EZ,K>
SFR304	87-024-438-080		SFR,220K H RH063MC<U,LH,HR>
SFR304	87-024-435-080		SFR,33K H RH063MC<EZ,K>
SFR305	87-024-436-080		SFR,47K H RH063MC<EZ,K>
SFR306	87-024-436-080		SFR,47K H RH063MC<EZ,K>
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
TC942	87-011-221-080		TRIMMER,CER 30P <EZ,K>
TH201	87-A90-221-080		C-THMS 100K<EZ,K,HR>
TH202	87-A90-221-080		C-THMS 100K<EZ,K,HR>
W001	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 BFUC<HR>
X850	87-KT1-608-010		XTAL 4.332MHZ<EZ>
FRONT C.B			
	85-NF5-618-010		CABLE,FFC 13P-1.25
	85-NF5-615-010		CABLE,FFC 15P-1.25
	88-913-191-110		FF CABLE,13P-1.25
C101	87-010-198-080		C-CAP,S 0.022-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C102	87-010-198-080		C-CAP,S 0.022-25 K 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	87-010-498-040		CAP,E 10-16 5L SRE
C109	87-010-494-040		CAP,E 1-50 5L SRE
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
C117	87-010-550-040		CAP,E 100-6.3 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
C403	87-010-596-080		C-CAP,S 0.047-16 K R
C404	87-010-596-080		C-CAP,S 0.047-16 K R
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		CAP,S 0.022-16 K R
C411	87-016-463-080		C-CAP,0.33-16 K B
C412	87-016-463-080		C-CAP,0.33-16 K B
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
C601	87-010-560-040		CAP,E 10-50 M 5L MA
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C603	87-010-498-040		CAP,E 10-16 M 5L
C604	87-010-499-040		CAP,E 22-6.3 M 5L
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C606	87-010-322-080		C-CAP,S 100P-50 J CH<EZ,K>
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	87-010-491-040		CAP,E 0.22-50 5L SRE
C610	87-010-322-080		C-CAP,S 100P-50 J CH<EZ,K>
C611	87-010-177-080		C-CAP,S 820P-50 J SL
C612	87-010-597-080		C-CAP,S 0.056-16 K R
C614	87-010-248-040		CAP,E 220-10 M SME
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-NF6-610-010		FL,BJ531GK
J601	87-NF7-630-010		JACK,3.5MO
J602	87-NF7-630-010		JACK,3.5MO
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-A40-264-080		LED,SLH-56PCTE7 GRN
LED217	87-A40-264-080		LED,SLH-56PCTE7 GRN
LED218	87-A40-264-080		LED,SLH-56PCTE7 GRN
LED219	87-A40-264-080		LED,SLH-56PCTE7 GRN
LED220	87-A40-264-080		LED,SLH-56PCTE7 GRN
LED221	87-A40-264-080		LED,SLH-56PCTE7 GRN
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
S301	87-A90-164-080		SW,TACT SKQNAB(N)
S302	87-A90-164-080		SW,TACT SKQNAB(N)
S303	87-A90-164-080		SW,TACT SKQNAB(N)
S304	87-A90-164-080		SW,TACT SKQNAB(N)
S305	87-A90-164-080		SW,TACT SKQNAB(N)
S306	87-A90-164-080		SW,TACT SKQNAB(N)
S307	87-A90-164-080		SW,TACT SKQNAB(N)
S308	87-A90-164-080		SW,TACT SKQNAB(N)
S314	87-A90-164-080		SW,TACT SKQNAB(N)
S315	87-A90-164-080		SW,TACT SKQNAB(N)
S316	87-A90-164-080		SW,TACT SKQNAB(N)
S317	87-A90-164-080		SW,TACT SKQNAB(N)
S318	87-A90-164-080		SW,TACT SKQNAB(N)
S319	87-A90-164-080		SW,TACT SKQNAB(N)
S320	87-A90-164-080		SW,TACT SKQNAB(N)
S323	87-A90-164-080		SW,TACT SKQNAB(N)
S324	87-A90-164-080		SW,TACT SKQNAB(N)
S325	87-A90-164-080		SW,TACT SKQNAB(N)
S326	87-A90-164-080		SW,TACT SKQNAB(N)
S327	87-A90-164-080		SW,TACT SKQNAB(N)
S328	87-A90-164-080		SW,TACT SKQNAB(N)
S330	87-A90-164-080		SW,TACT SKQNAB(N)<EZ>
S331	87-A90-164-080		SW,TACT SKQNAB(N)
S332	87-A90-164-080		SW,TACT SKQNAB(N)
S333	87-A90-164-080		SW,TACT SKQNAB(N)
S334	87-A90-164-080		SW,TACT SKQNAB(N)
S335	87-A90-164-080		SW,TACT SKQNAB(N)
S337	87-A90-164-080		SW,TACT SKQNAB(N)
S339	87-A90-164-080		SW,TACT SKQNAB(N)<EZ>
S340	87-A90-164-080		SW,TACT SKQNAB(N)<EZ>
S341	87-A90-164-080		SW,TACT SKQNAB(N)<EZ>
S342	87-A90-164-080		SW,TACT SKQNAB(N)
SW101	87-A90-535-010		SW,RTRY EC16B24304
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF

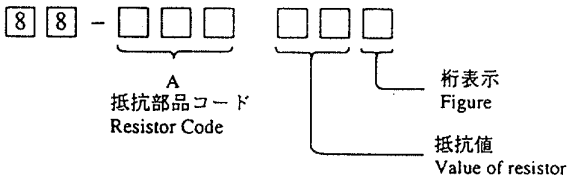
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
KEY C.B			
S365	87-A90-164-080		SW,TACT SKQNAB(N)
S366	87-A90-164-080		SW,TACT SKQNAB(N)
S367	87-A90-164-080		SW,TACT SKQNAB(N)
S368	87-A90-164-080		SW,TACT SKQNAB(N)
S369	87-A90-164-080		SW,TACT SKQNAB(N)
AC1 C.B			
⚠ FC1	87-A90-505-080		FUSE CLAMP,TP00351-5<U>
⚠ FC1	87-033-213-080		FUSE CLAMP,PFC5000<EZ,K>
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ FC2	87-033-213-080		FUSE CLAMP,PFC5000<EZ,K>
⚠ FC2	87-A90-505-080		FUSE CLAMP,TP00351-5<U>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ F101	87-035-518-010		FUSE,5A 125V T 239 <U>
⚠ F101	87-035-365-010		FUSE,2A 250V T<EZ,K>
⚠ F101	87-035-370-010		FUSE,6.3A 250V T<LH,HR>
⚠ PT101	87-NFT-621-010		PT,7NF-T U<U>
⚠ PT101	87-NFT-624-010		PT,7NF-T EKZ<EZ,K>
⚠ PT101	87-NFT-623-010		PT,7NF-T HR<HR>
⚠ PT101	87-NFT-625-010		PT,7NF-T LH<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
⚠ SW101	87-A90-165-010		SW,SL1-2-3 SWS 2301<LH,HR>
AC2 C.B			
⚠ F001	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F002	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F003	87-026-690-080		FUSE,5A 125V 251<U>
⚠ F004	87-026-690-080		FUSE,5A 125V 251<U>
⚠ F005	87-026-691-080		FUSE,10A 125V 251<U>
⚠ F006	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR001	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
⚠ PR002	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
⚠ PR003	87-026-681-080		PROTECTOR,5A 60V<EZ,K,LH,HR>
⚠ PR004	87-026-681-080		PROTECTOR,5A 60V<EZ,K,LH,HR>
⚠ PR005	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
⚠ PR006	87-026-682-080		PROTECTOR,10A 60V<EZ,K,LH,HR>
DECK C.B			
CON502	87-099-756-010		CONN,15P 9604 S F
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW3	87-A90-248-010		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-A90-248-010		SW, MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW, MICRO SPPB62
W1	82-ZM3-601-019		RBN,CORD 4P-75
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A
PRO C.B			
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
C106	87-010-382-080		CAP, ELECT 22-25V
C107	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C108	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
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,K>
C118	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
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,K>
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,0.01-25 BK<EZ,K>
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,K>
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,0.01-25 BK<EZ,K>
C315	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C316	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
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	87-010-404-080		CAP, ELECT 4.7-50V<U,LH,HR>
C519	87-010-378-080		CAP, ELECT 10-16V<EZ,K>
C520	87-010-404-080		CAP, ELECT 4.7-50V<U,LH,HR>
C520	87-010-378-080		CAP, ELECT 10-16V<EZ,K>
C521	87-010-400-080		CAP, ELECT 0.47-50V<U,LH,HR>
C521	87-010-378-080		CAP, ELECT 10-16V<EZ,K>
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
C539	87-016-081-080		C-CAP,S 0.1-16 RK

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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,K>
C549	87-010-178-080		C-CAP,S 1000P-50 BK<EZ,K>
C550	87-010-314-080		C-CAP,S 22P-50 CH<EZ,K>
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	87-012-141-080		C-CAP,S 0.22-16 ZF<U,LH,HR>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C622	87-A10-201-080		C-CAP,S 0.33-16 BK<EZ,K>
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,K>
C713	87-010-178-080		C-CAP,S 1000P-50 BK<EZ,K>
FB106	87-008-372-080		FILTER, EMIBLOI RNI<U,LH,HR>
FB512	87-008-372-080		FILTER, EMIBLOI RNI<EZ,K>
FB516	87-008-474-080		F-BEAD, BL02RN1-R62T<EZ,K>
FB705	87-008-372-080		FILTER, EMIBLOI RNI<EZ,K>
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

○ 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

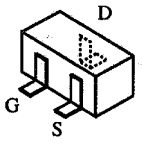
KTA1266GR
KTC3198GR

CSD1489B
CSB1058B

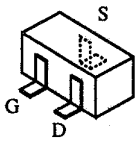
2SA933S

2SK2723

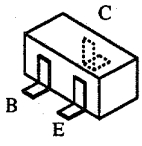
2SB1370
FN1016
FP1016
2SD2061E



2SK2158



2SK543

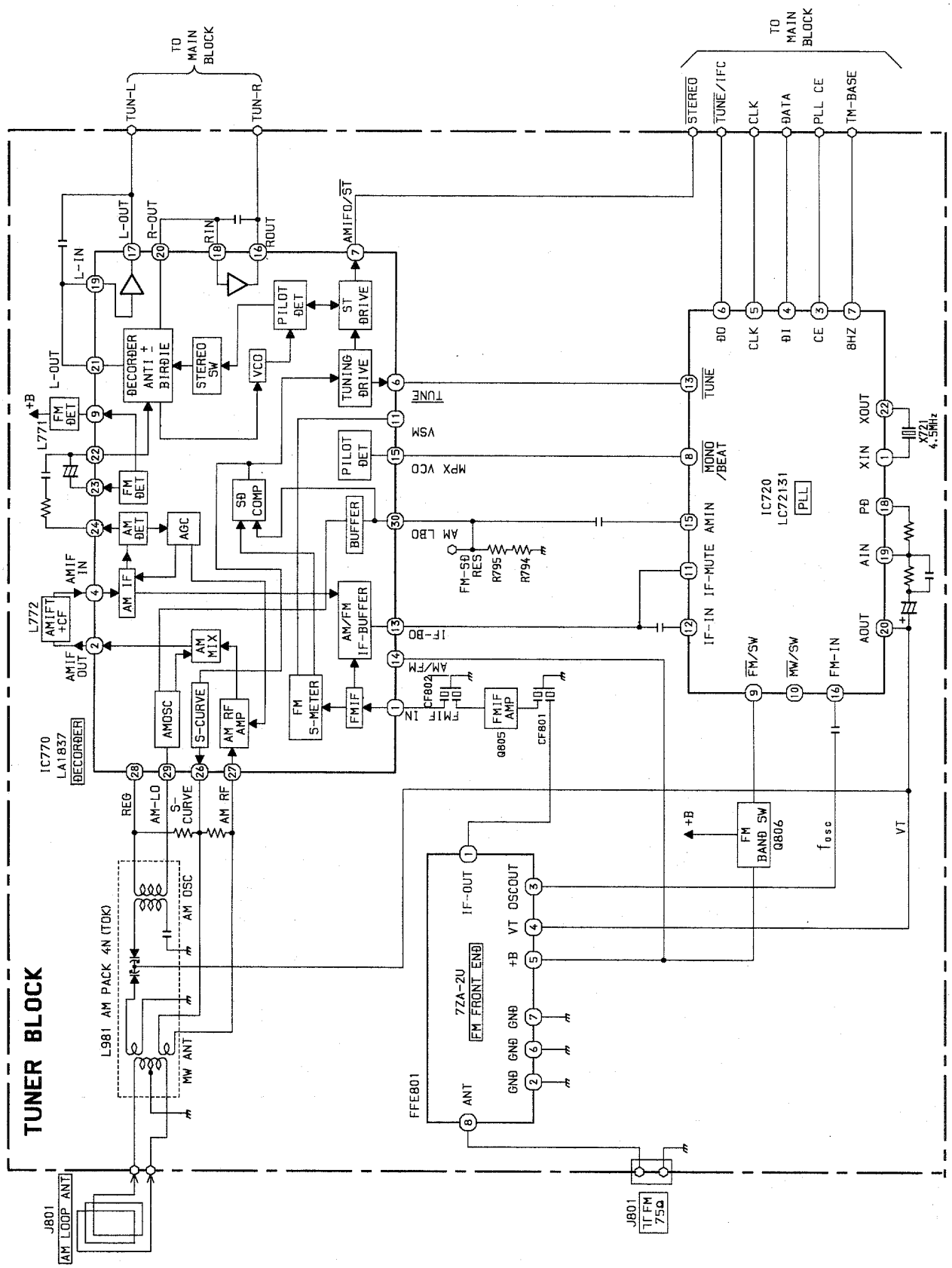


2SC2714
RN1410
2SC3052F
2SA1235F
RT1N141C
RT1P141C

DTA144WS
CSA1362GR
RT1N144C
CSD1306E
CMBT5551
RT1P144C

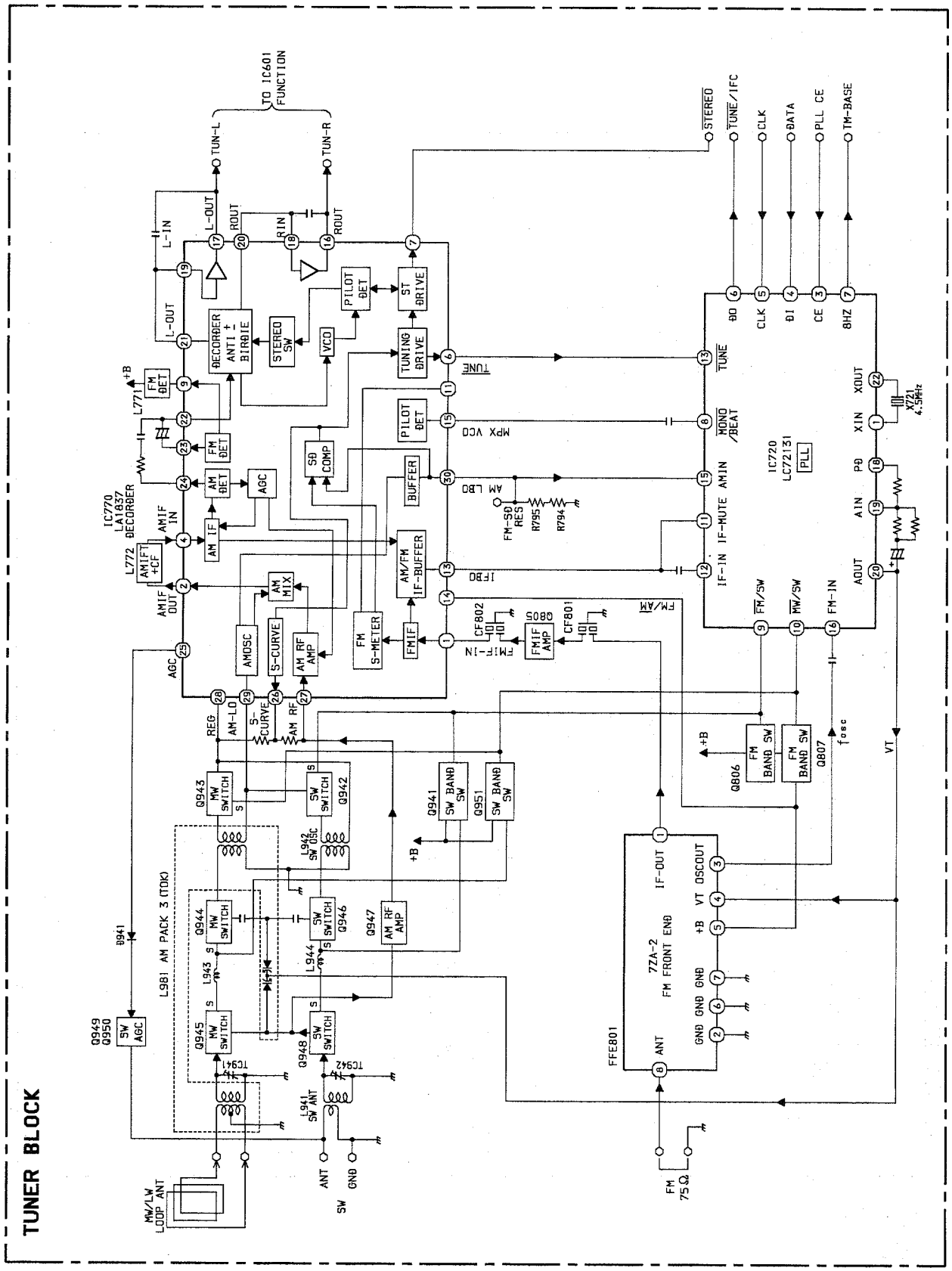
C2N5401
C2N5551

BLOCK DIAGRAM – 1 (TUNER : U,LH)

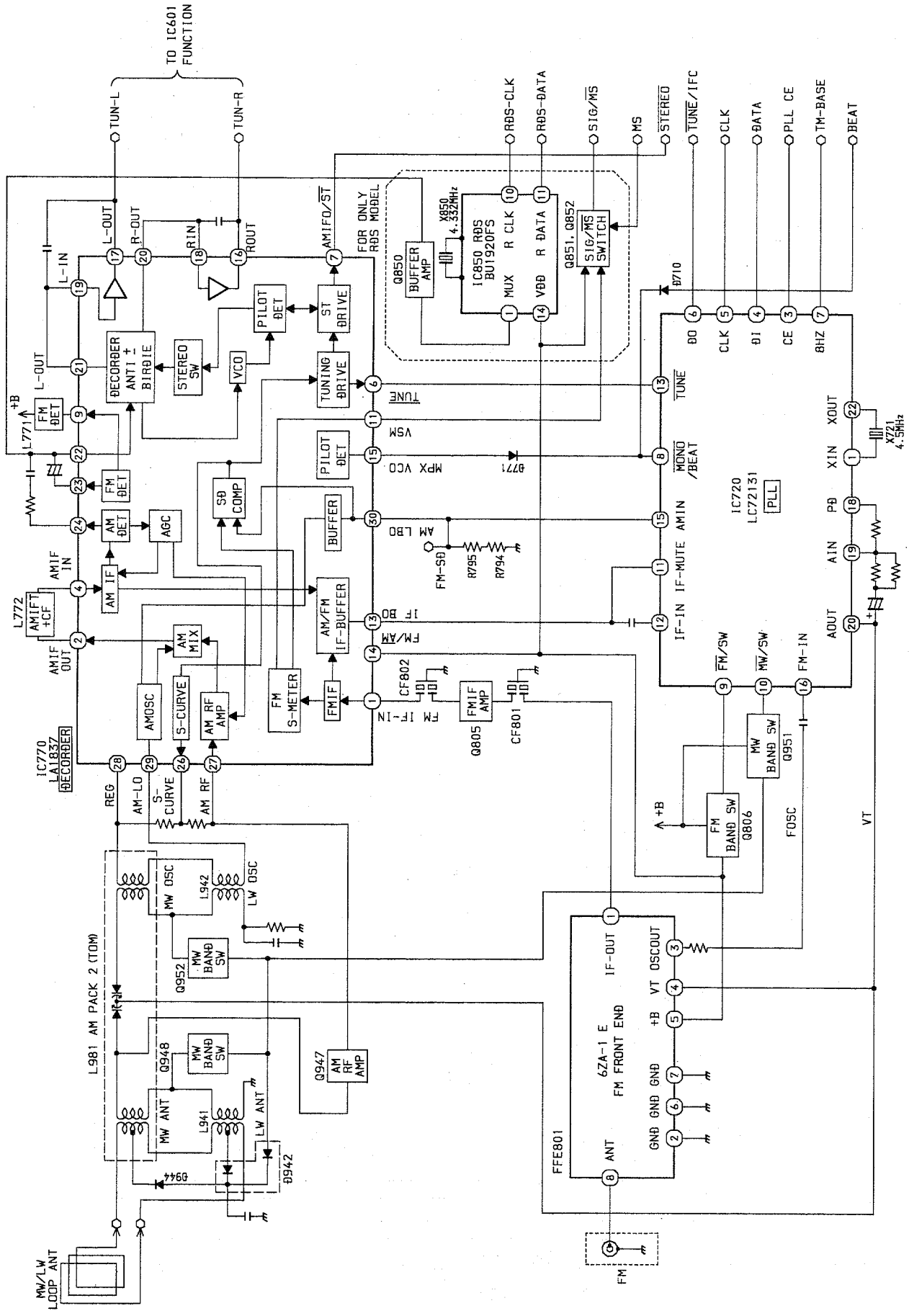


BLOCK DIAGRAM – 2 (TUNER : HR)

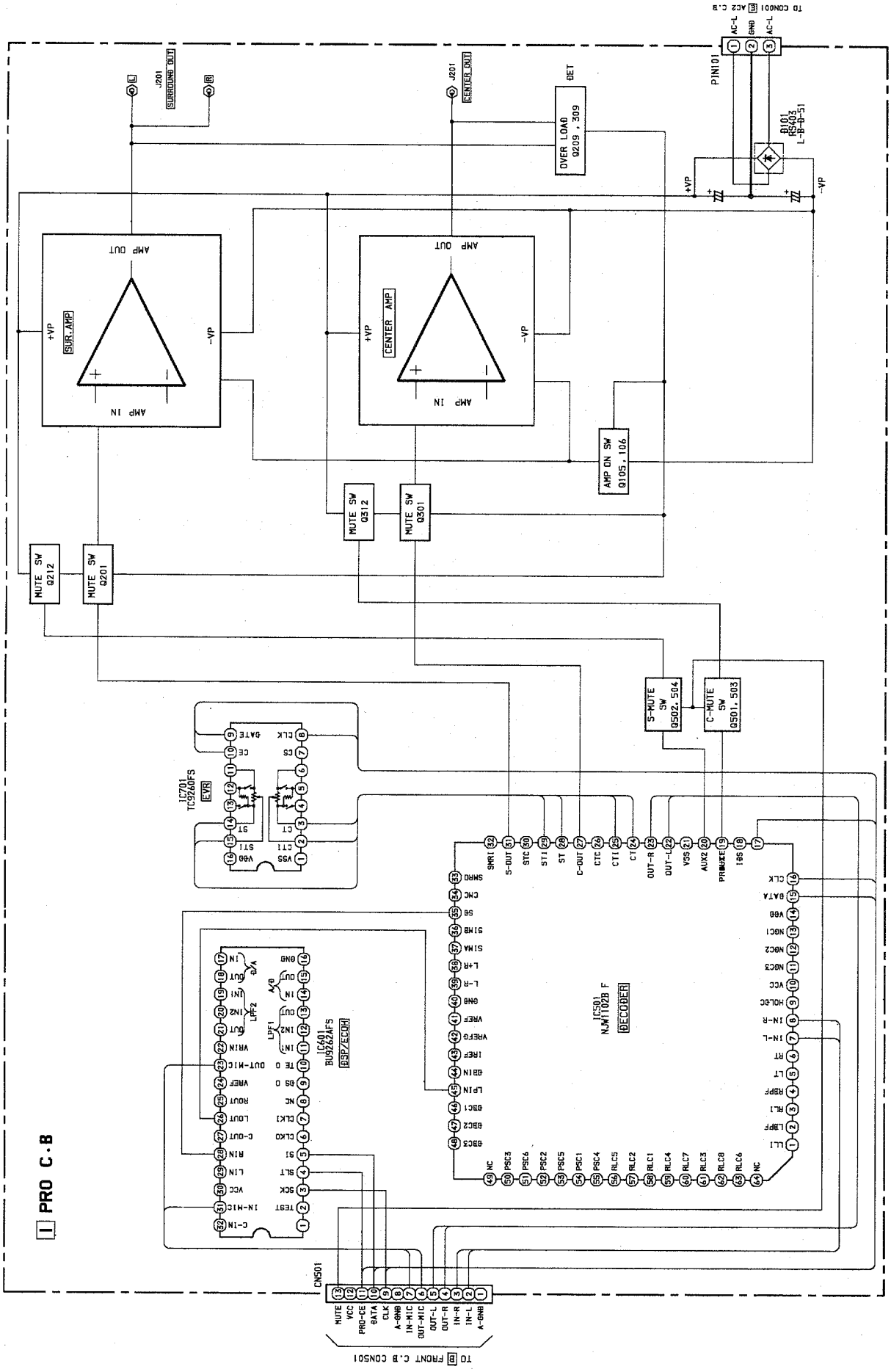
TUNER BLOCK



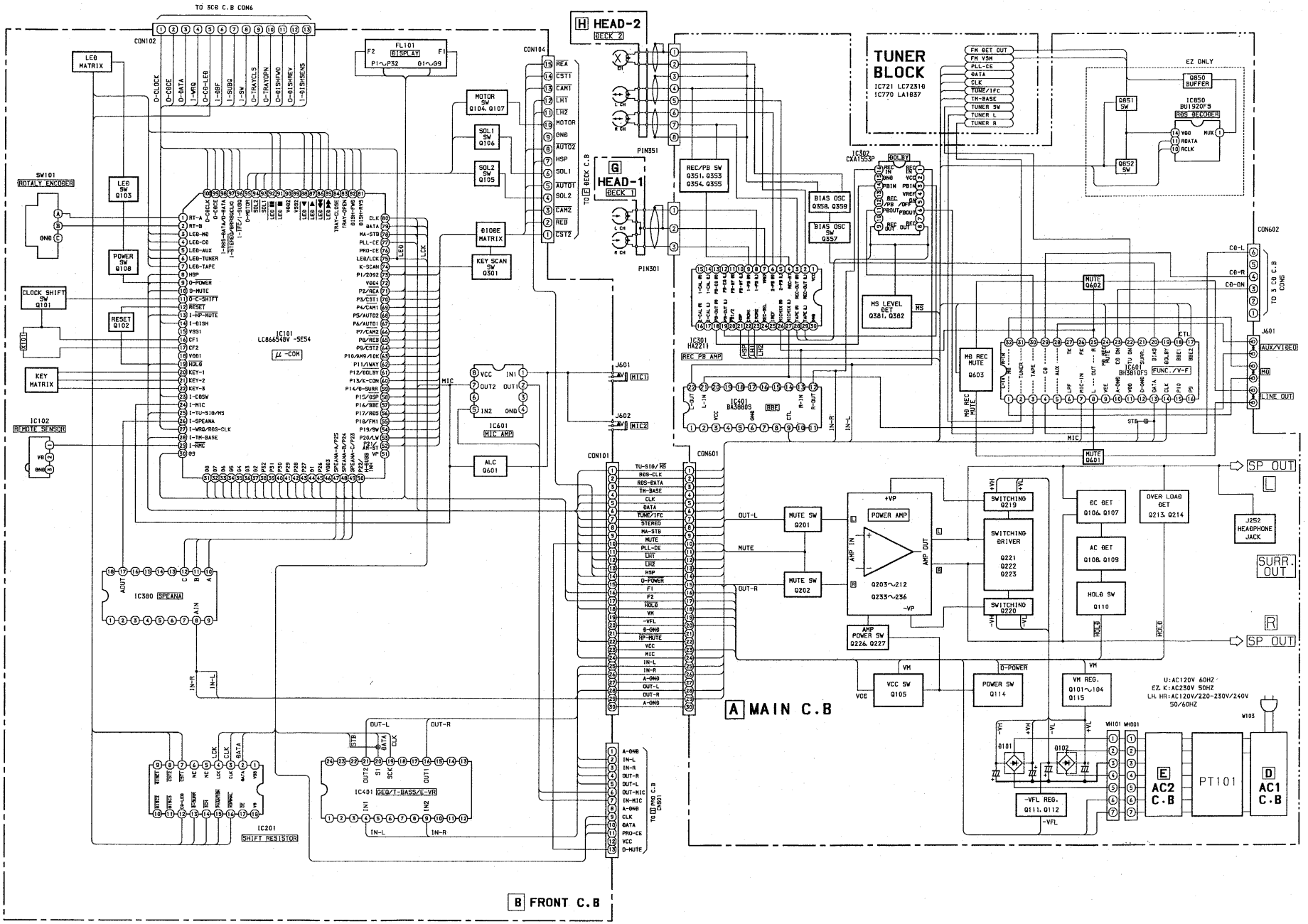
BLOCK DIAGRAM – 3 (TUNER : EZ,K)



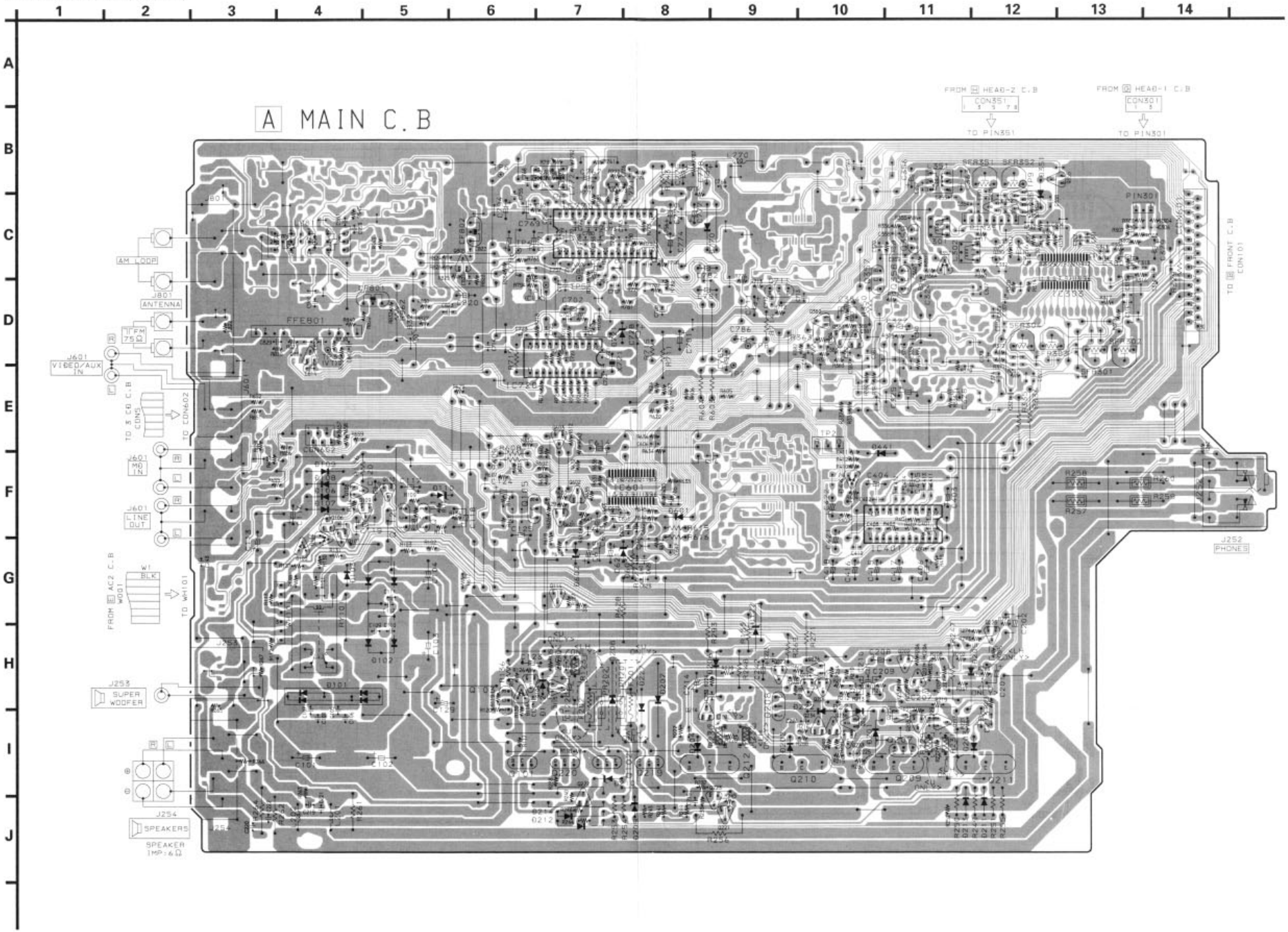
BLOCK DIAGRAM – 4 (TUNER : PRO)



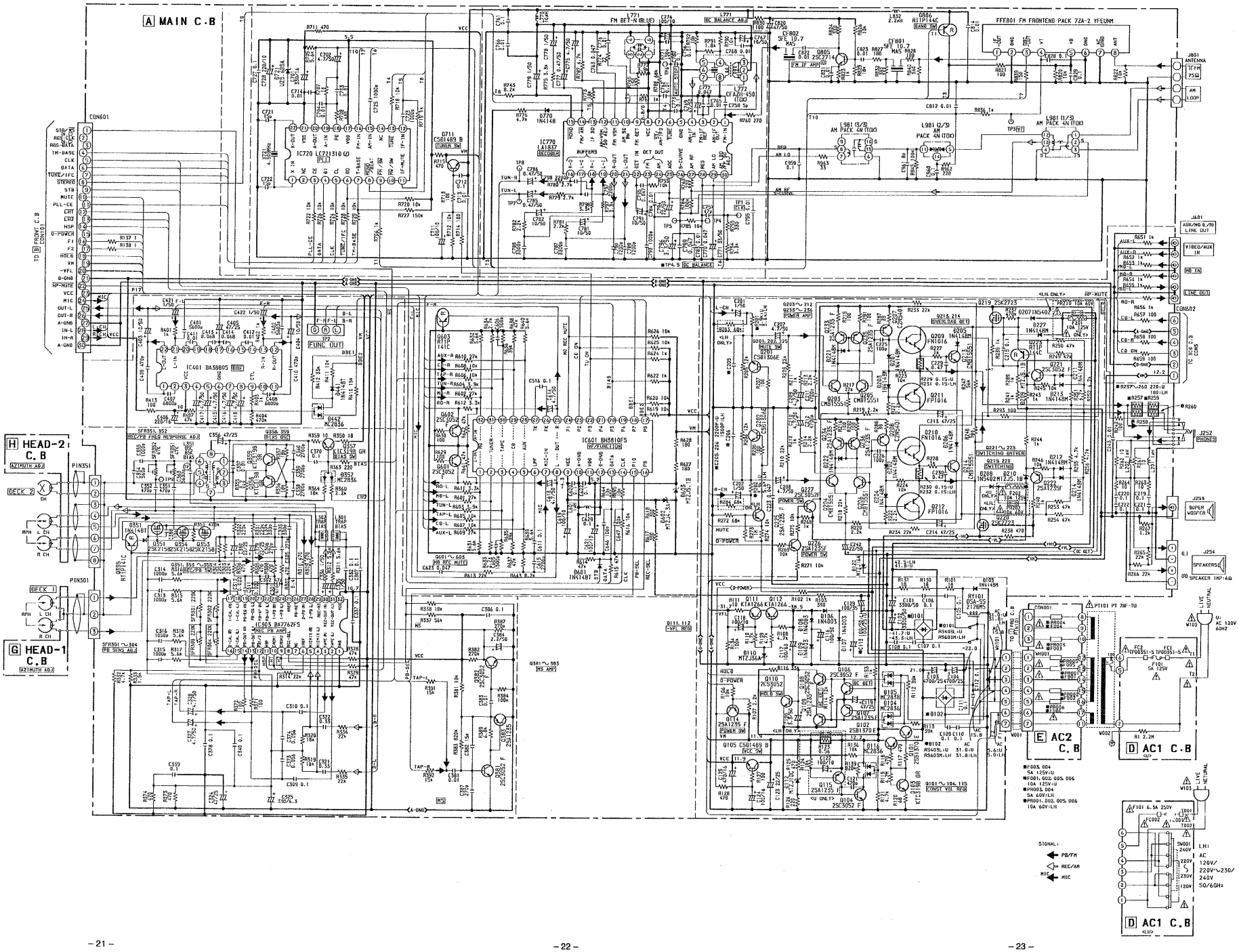
BLOCK DIAGRAM – 5 (MAIN / FRONT)



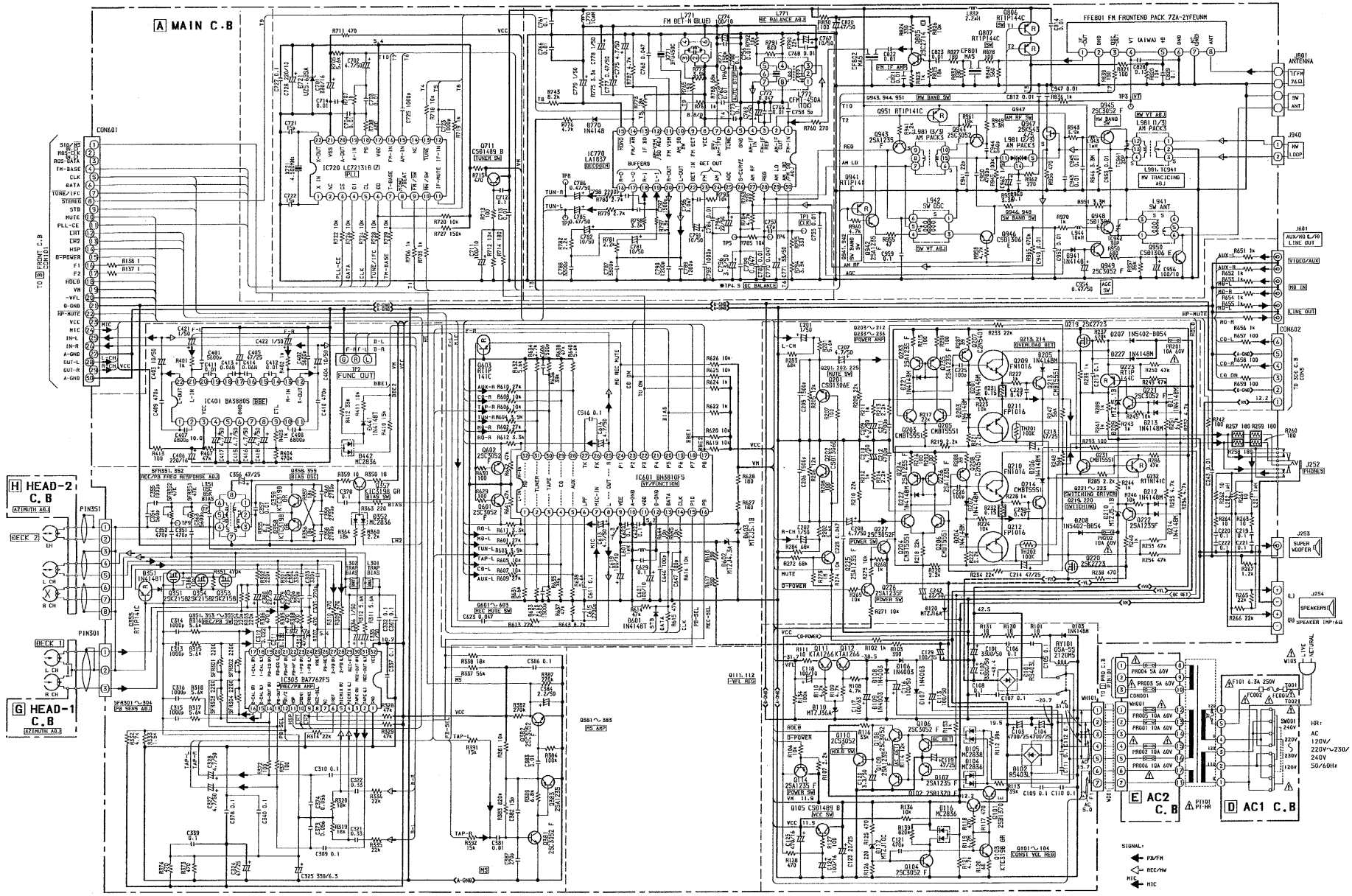
WIRING – 1 (MAIN : U,LH)



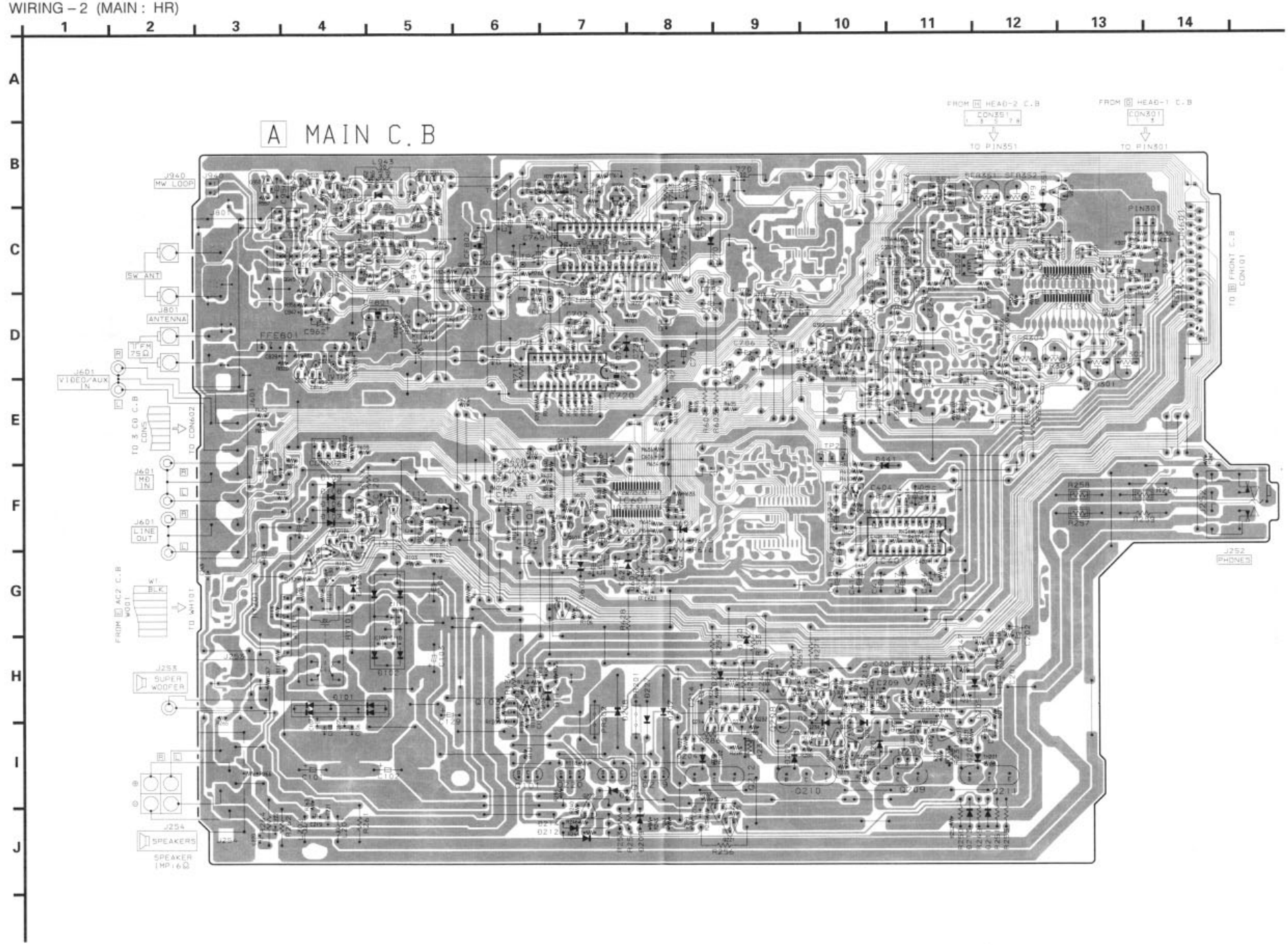
SCHEMATIC DIAGRAM – 1 (MAIN : U,LH)



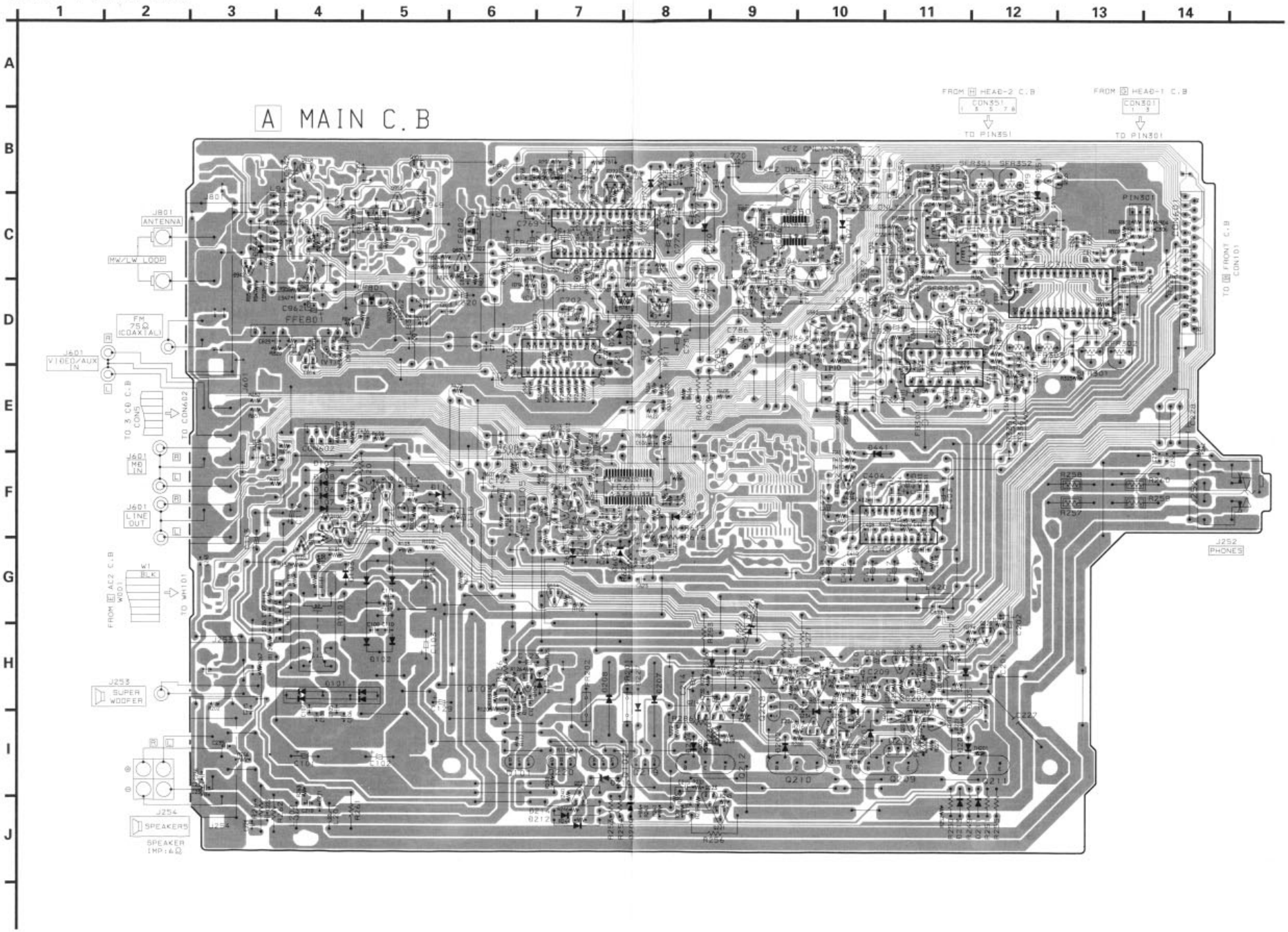
SCHEMATIC DIAGRAM – 2 (MAIN : HR)



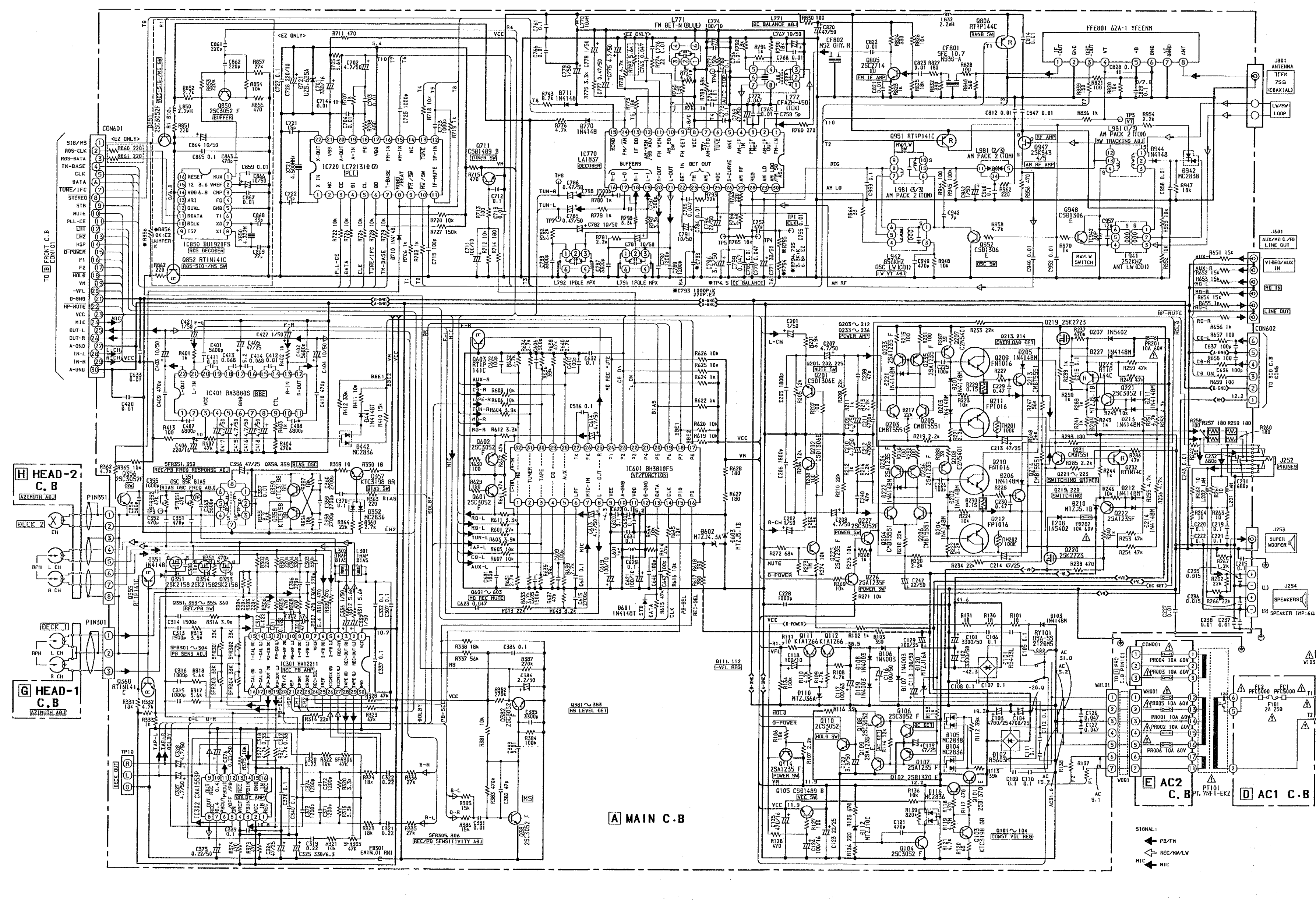
WIRING – 2 (MAIN : HR)

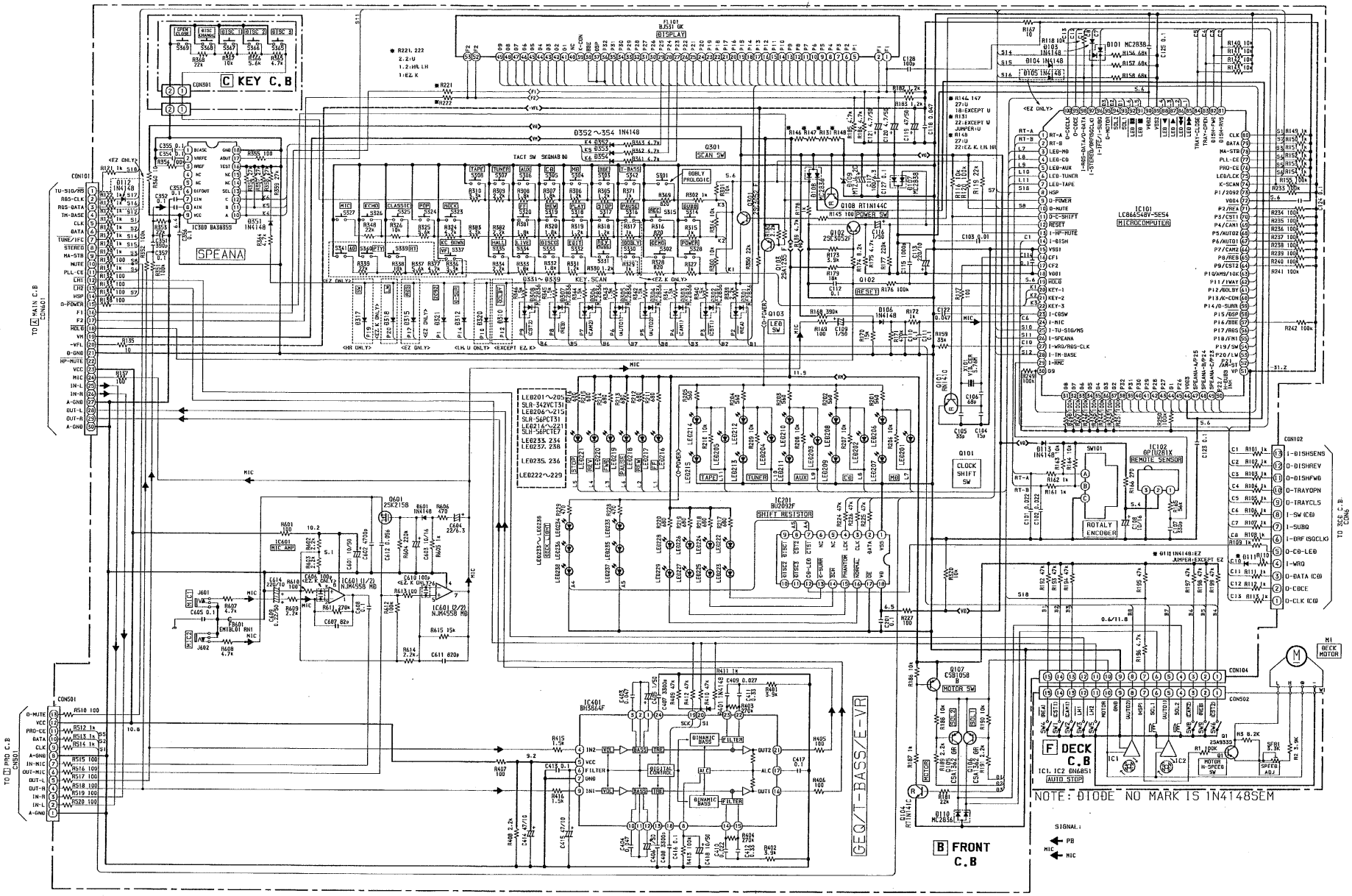


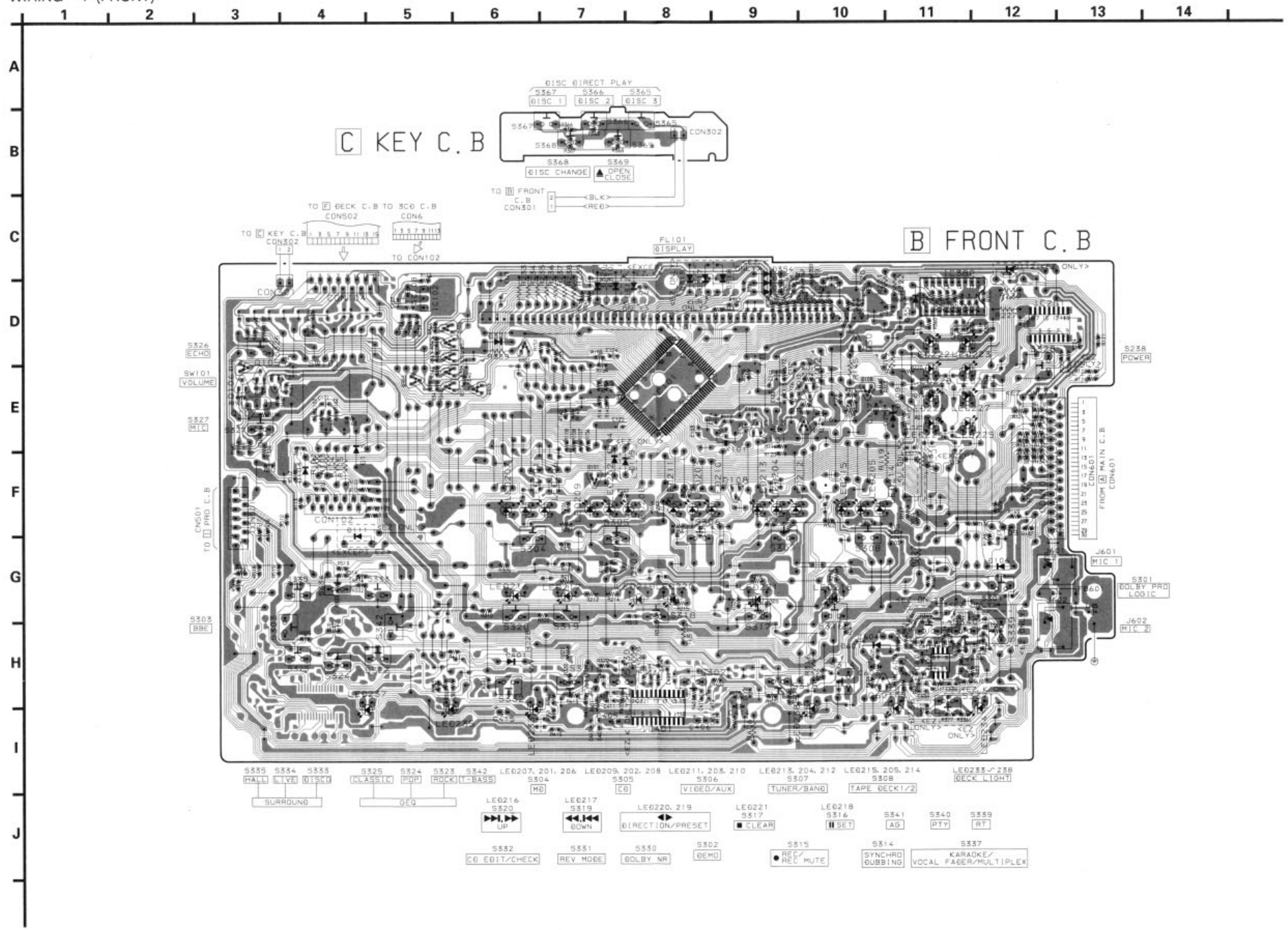
WIRING – 3 (MAIN : EZ,K)



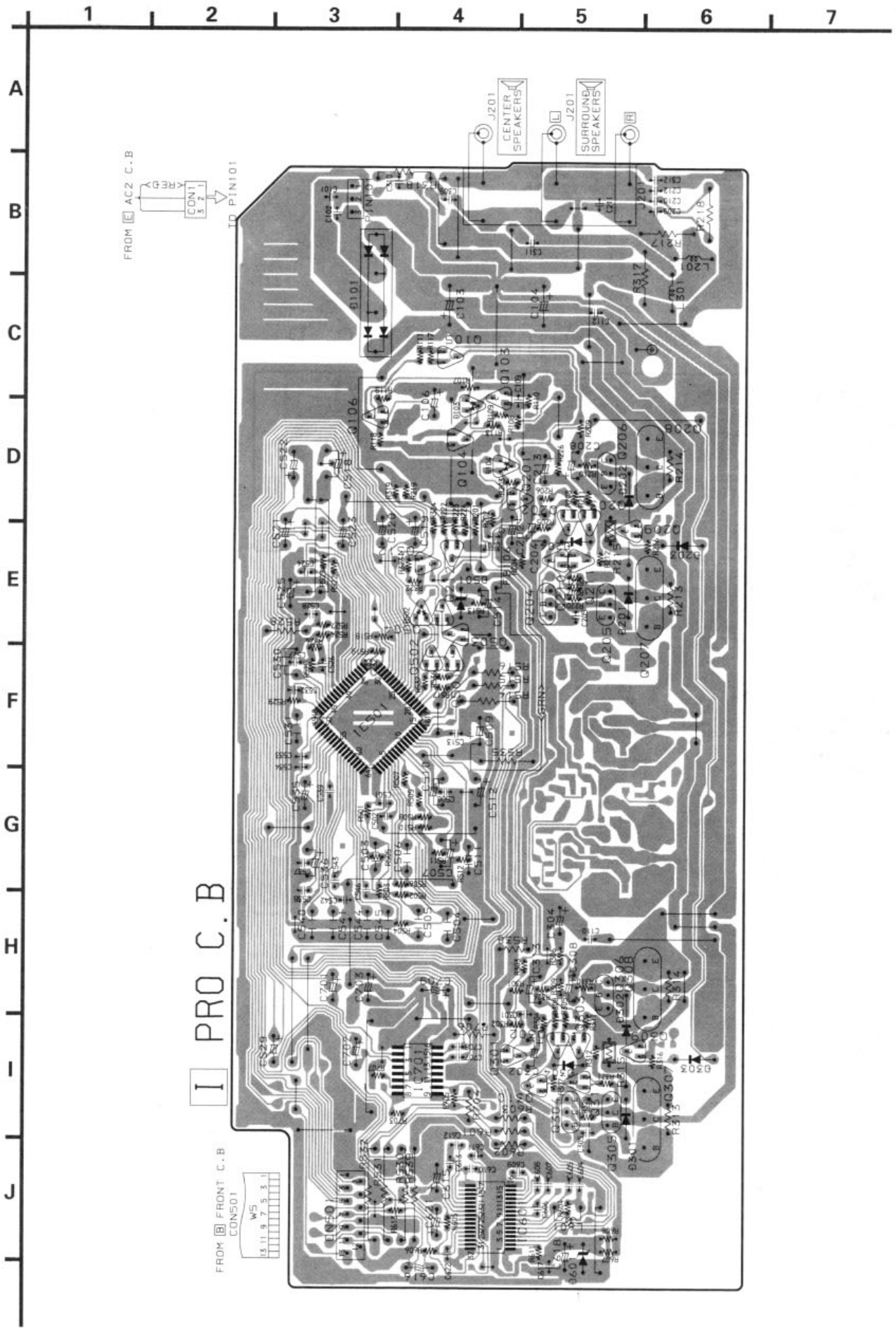
SCHEMATIC DIAGRAM – 3 (MAIN : EZ,K)



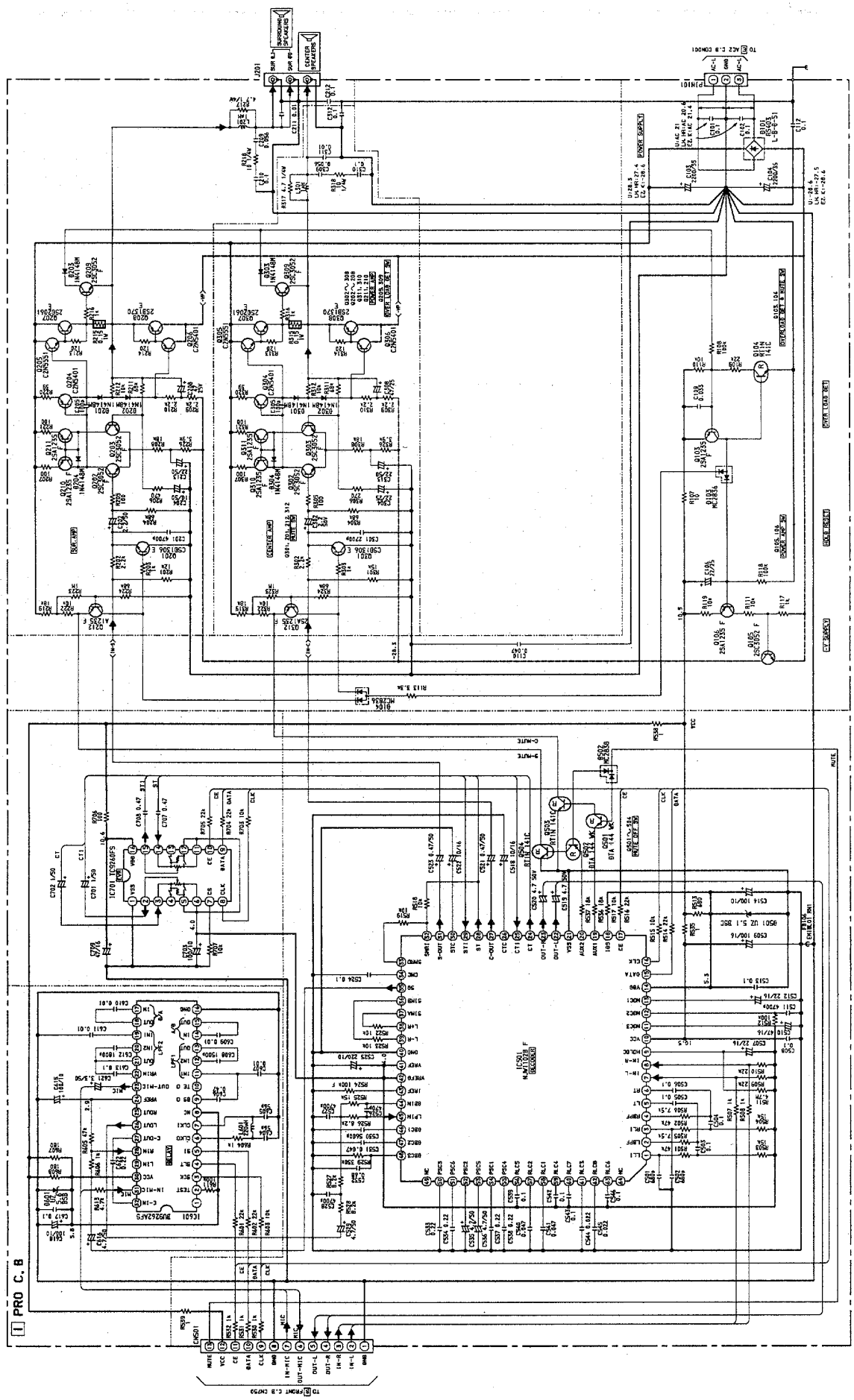

C KEY C.B
CON501
SPEANA
TO A MAIN C.B CON501
TO D PRO C.B CON501
TO SCR C.B CON6
CON101
CON102
CON104
CON502
IC101 LC864548Y-5E54 MICROCOMPUTER
IC102 BP1U281X REMOTE SENSOR
IC201 BU2092F SHIFT RESISTOR
IC401 BH3864F
IC601 NJM4558 RD
Q101 CLOCK SHIFT SW
Q102 2SC5032F
Q103 2SA1255 F
Q107 CSD1058 B MOTOR SW
Q108 RT1N144C POWER SW
Q501 SCAN SW
Q601 2SK2158
F DECK C.B
IC1, IC2 6N6851 AUTO STOP
B FRONT C.B
GEQ/T-BASS/E-VR
ROTARY ENCODER
TACT SW SKQNAB00
KEY SCAN
LED201~205 SLR-342VCT31
LED206~215 SLR-56PCT31
LED216~221 SLH-56PCT27
LED233, 234 LED237, 238
LED235, 236
LED222~229
NOTE: DIODE NO MARK IS 1N4148SEM
SIGNAL: PB MIC NIC


C KEY C.B
B FRONT C.B
DISC DIRECT PLAY
S367 DISC 1
S366 DISC 2
S365 DISC 3
S368 DISC CHANGE
S369 OPEN CLOSE
CON302
TO B FRONT C.B CON301
<BLK>
<RED>
TO F DECK C.B TO SCD C.B
CON502
CON6
TO C KEY C.B CON302
TO CON102
FL101 DISPLAY
S326 ECHO
SW101 VOLUME
S327 MIC
CN501 TO D PRO C.B
S303 BBE
S238 POWER
CN601 FROM A MAIN C.B CON601
J601 MIC 1
J602 MIC 2
S301 DOLBY PRO LOGIC
S335 HALL
S334 LIVE
S333 DISCO
SURROUND
S325 CLASSIC
S324 POP
S323 ROCK
S342 T-BASS
GEQ
LED207, 201, 206
LED209, 202, 208
LED211, 205, 210
LED213, 204, 212
LED215, 205, 214
LED233~238 DECK LIGHT
S304 MD
S305 CD
S306 VIDEO/AUX
S307 TUNER/BAND
S308 TAPE DECK1/2
LED216 S320 UP
LED217 S319 DOWN
LED220, 219 DIRECTION/PRESET
LED221 S317 CLEAR
LED218 S316 SET
S341 AG
S340 PTY
S339 RT
S332 CD EDIT/CHECK
S331 REV MODE
S330 DOLBY NR
S302 DEMO
S315 REC/ REC MUTE
S314 SYNCHRO DUBBING
S337 KARAOKE/ VOCAL FADER/MULTIPLEX

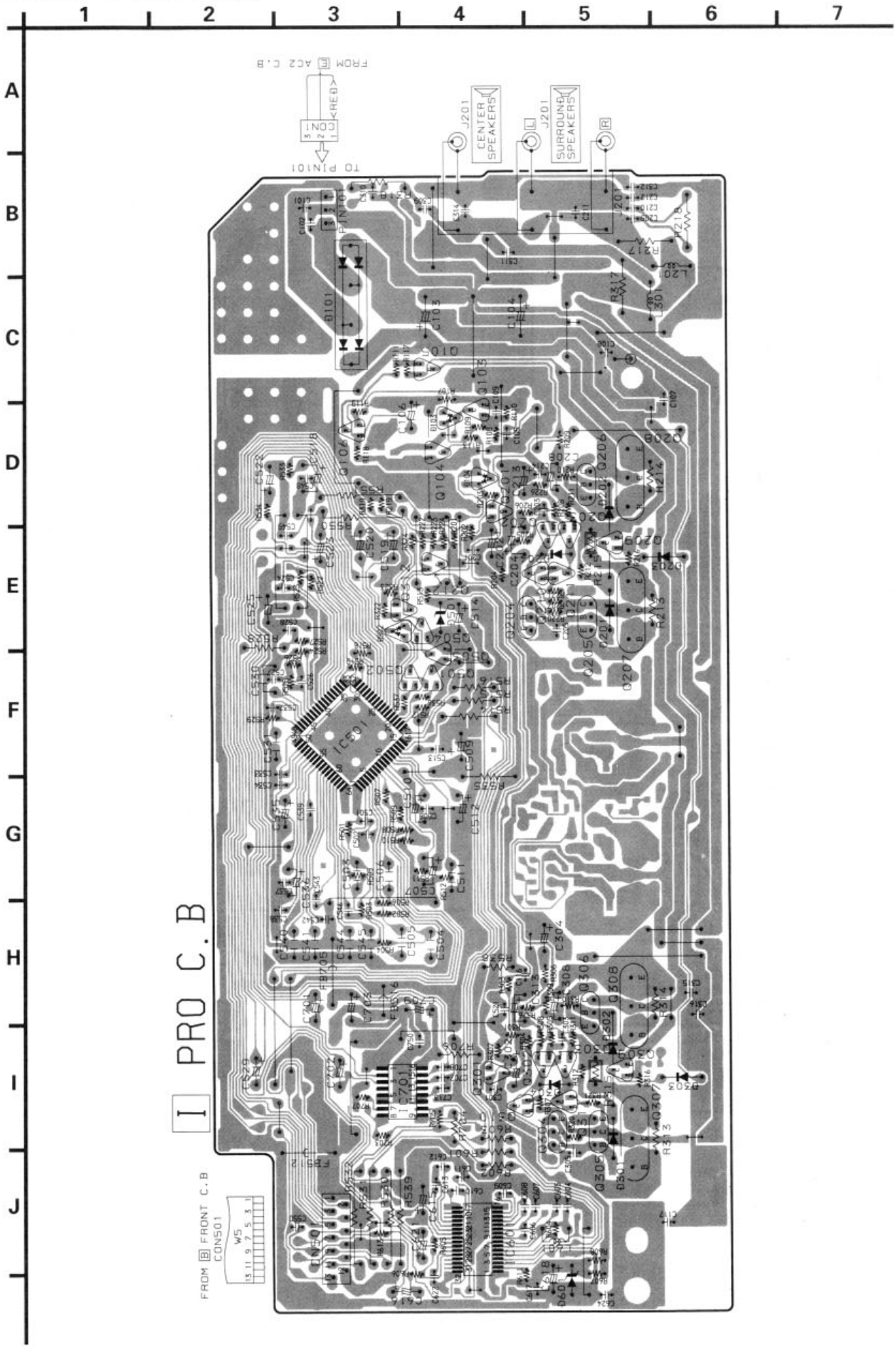
WIRING – 5 (PRO : U,LH,HR)



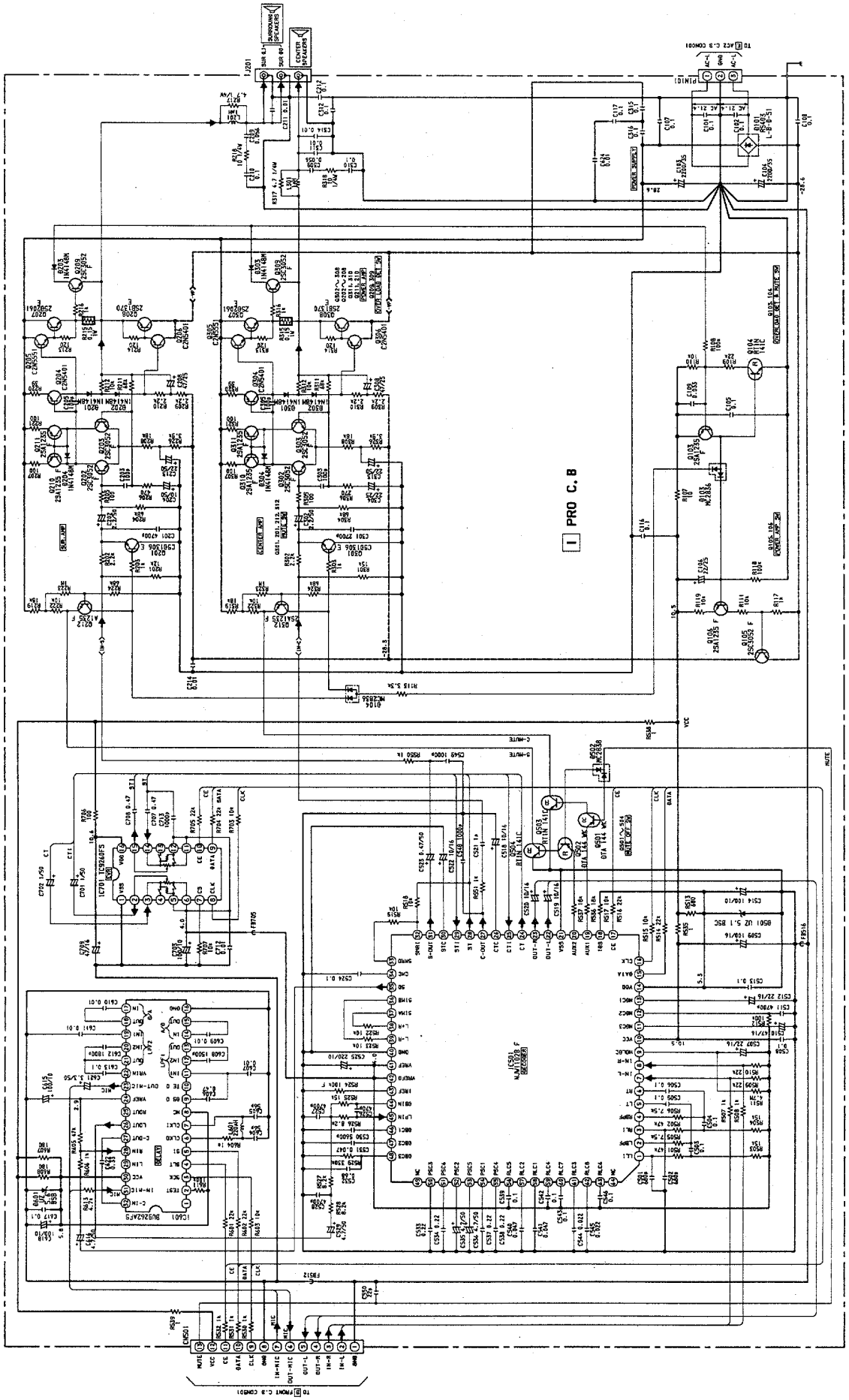
SCHEMATIC DIAGRAM – 5 (PRO : U,LH,HR)



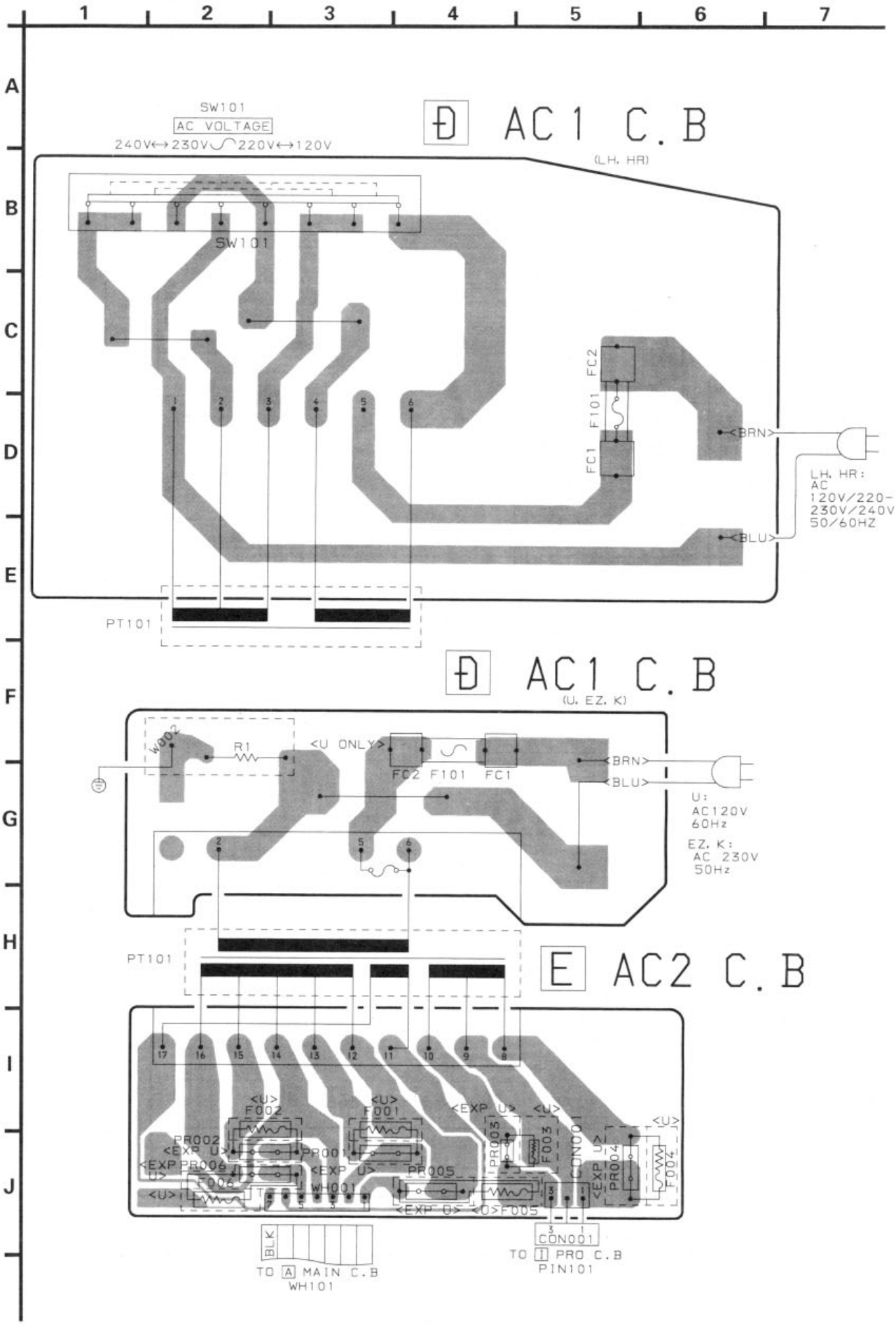
WIRING – 6 (PRO : EZ,K)



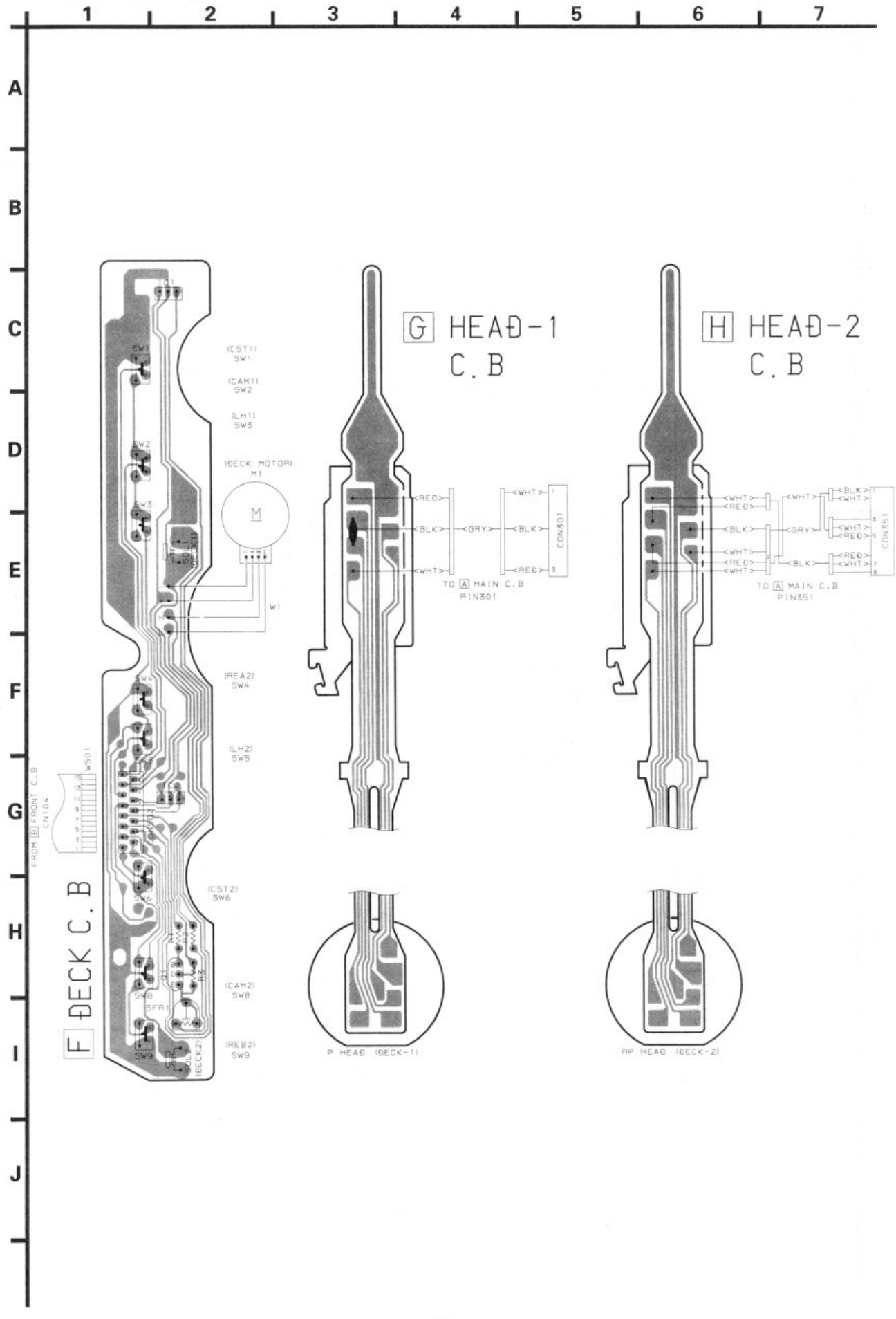
SCHEMATIC DIAGRAM – 6 (PRO : EZ,K)



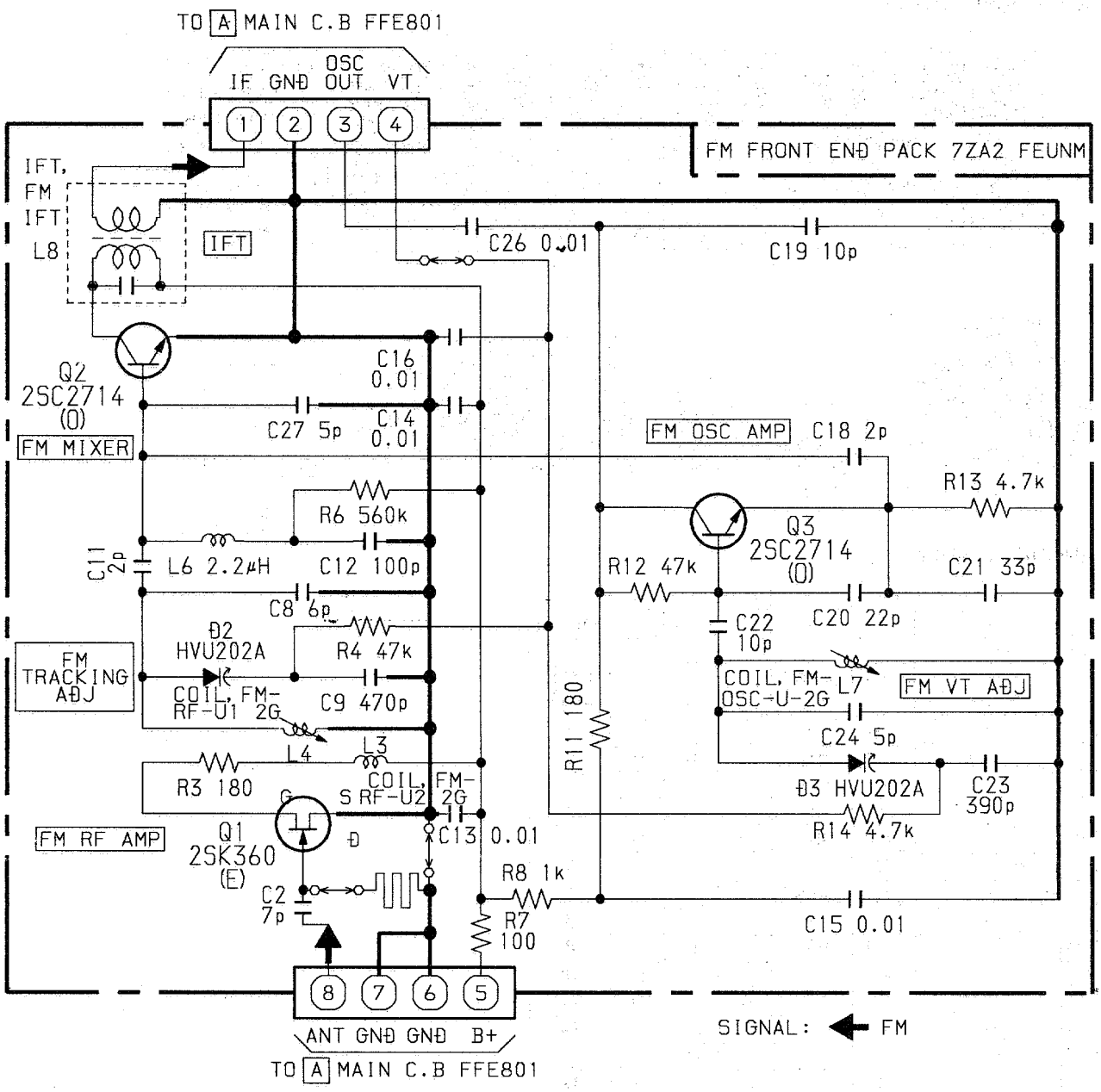
WIRING – 7 (AC)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
SW101
AC VOLTAGE
240V↔230V↔220V↔120V
Ð AC1 C.B
(LH. HR)
SW101
FC2
F101
FC1
<BRN>
<BLU>
LH. HR:
AC
120V/220-
230V/240V
50/60HZ
PT101
Ð AC1 C.B
(U. EZ. K)
W002
R1
<U ONLY>
FC2 F101 FC1
<BRN>
<BLU>
U:
AC120V
60Hz
EZ. K:
AC 230V
50Hz
PT101
E AC2 C.B
F002
F001
PR002
PR001
PR006
PR005
PR003
F003
CON001
PR004
F004
F006
WH001
F005
BLK
TO A MAIN C.B
WH101
CON001
TO 1 PRO C.B
PIN101

WIRING – 8 (DECK)

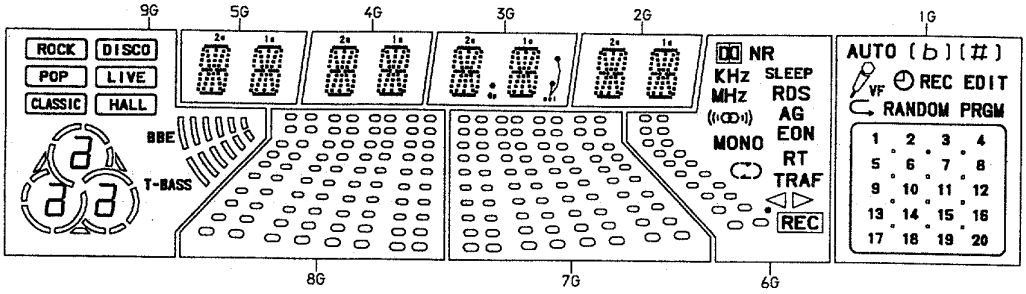


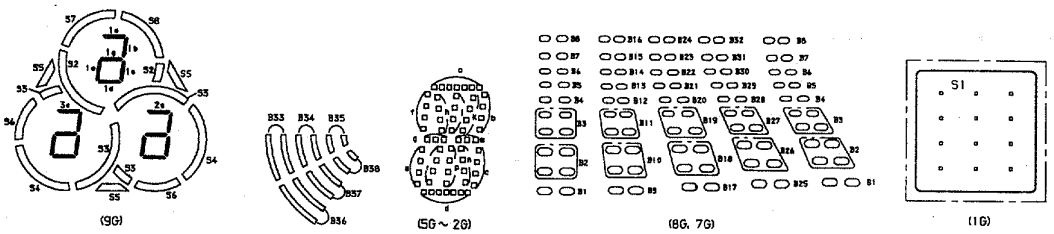
SCHEMATIC DIAGRAM – 7 (TUNER FRONT END : U,LH,HR)



FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT





BJ531GK
GRID ASSIGNMENT

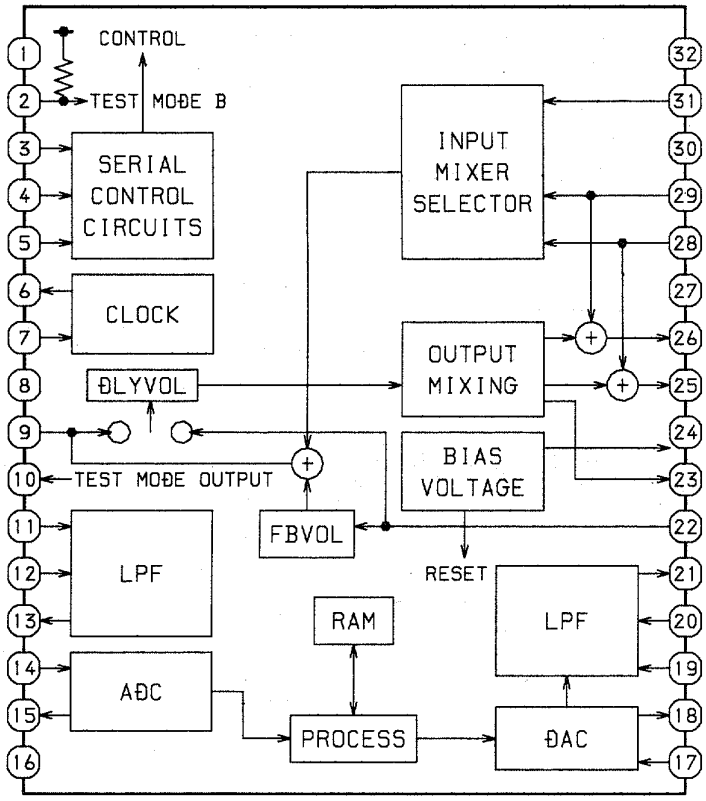
ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	col(下)	-	**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(上)	-	**12**
P17	S7	B28	-	-	Dp	-	**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	((◎))	2e	2e	2e	**18**
P23	(CLASSIC)	B11	**EON**	2c	2c	2c	**19**
P24	(POP)	B3	B3	2g	2g	2g	**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	(	2a	2a	2a	(b)
P32	S9 **T-BASS**	B1	B1	-	-	-	S1
P33	S10	-	-	-	-	-	-
P34	**BBE**	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #

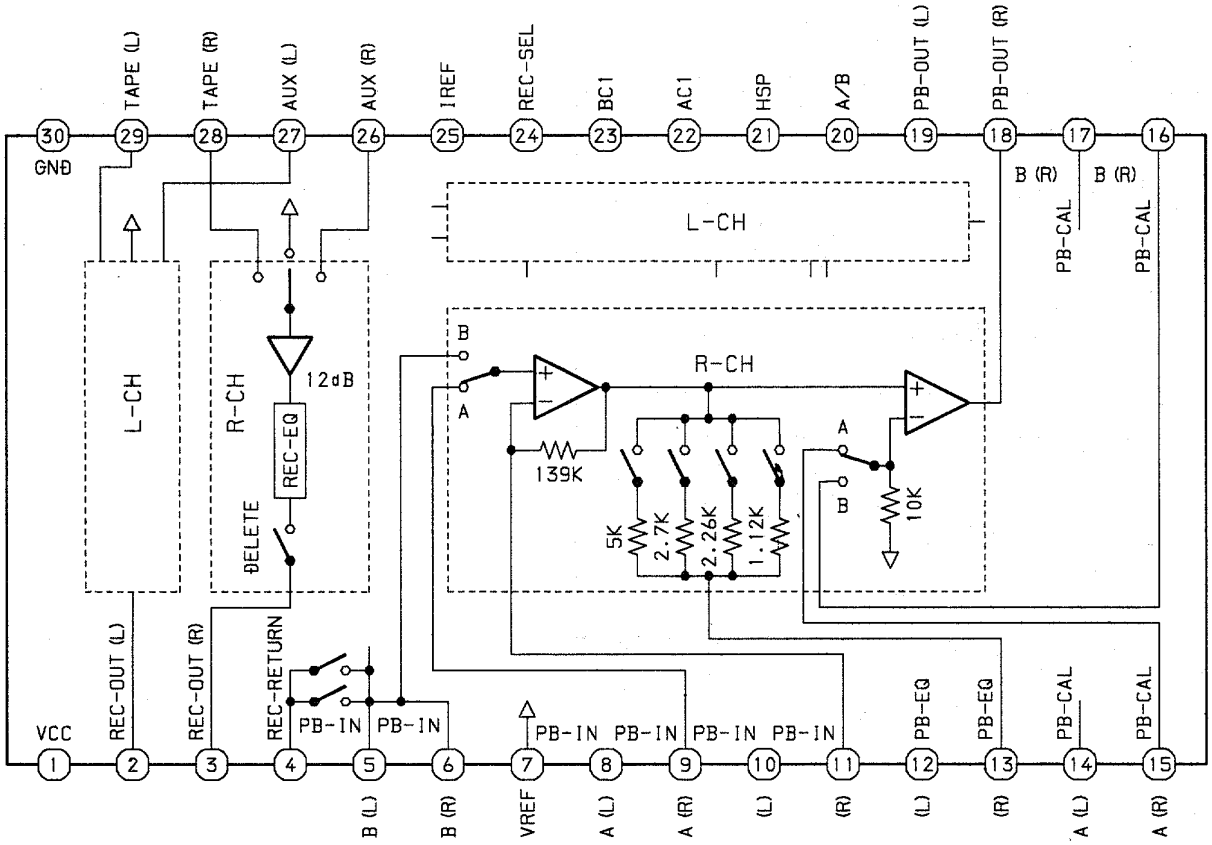
BJ531GK
ANODE CONNECTION

IC BLOCK DIAGRAM

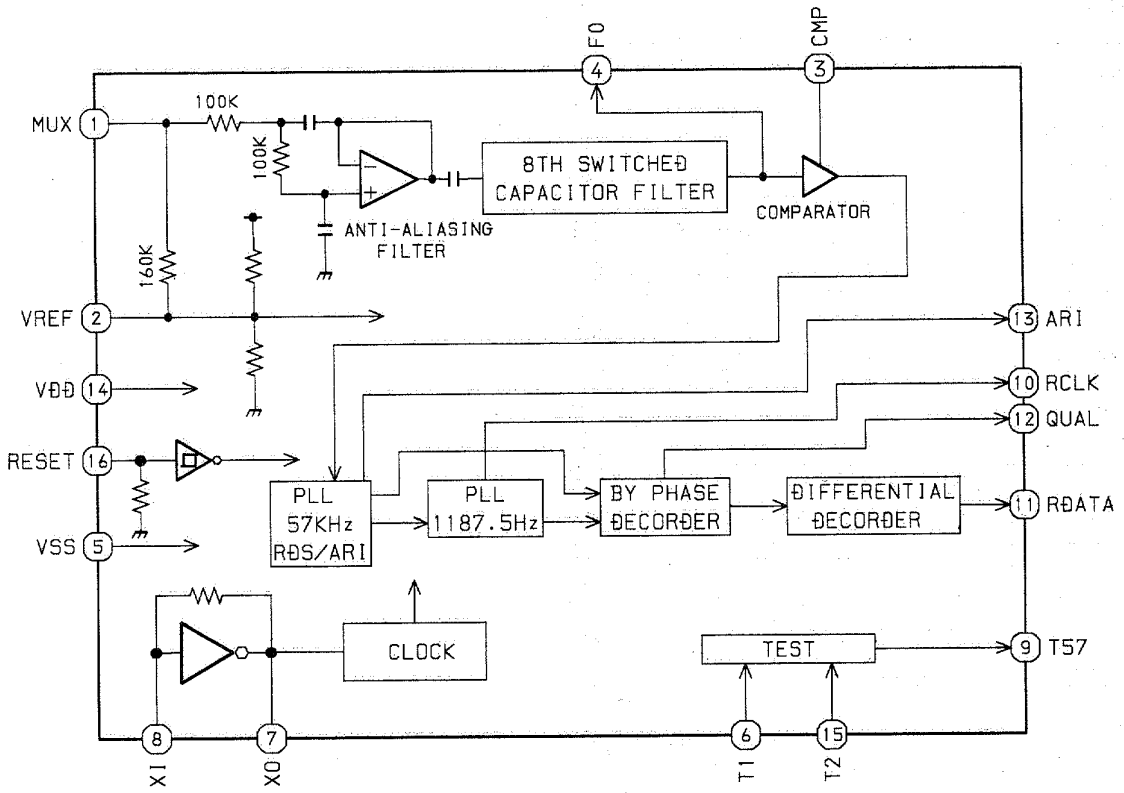
IC, BU9262AFS



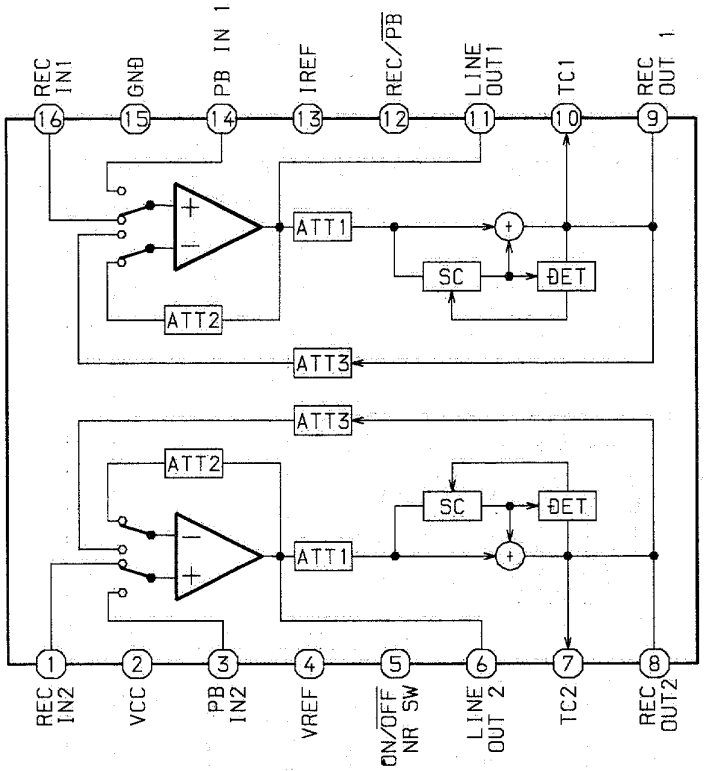
IC, HA12211NT



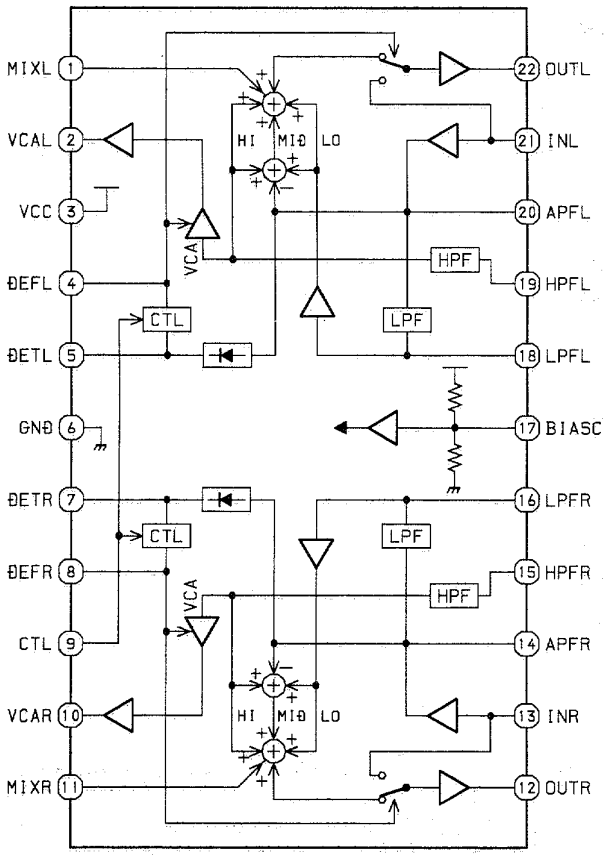
IC, BU1920S



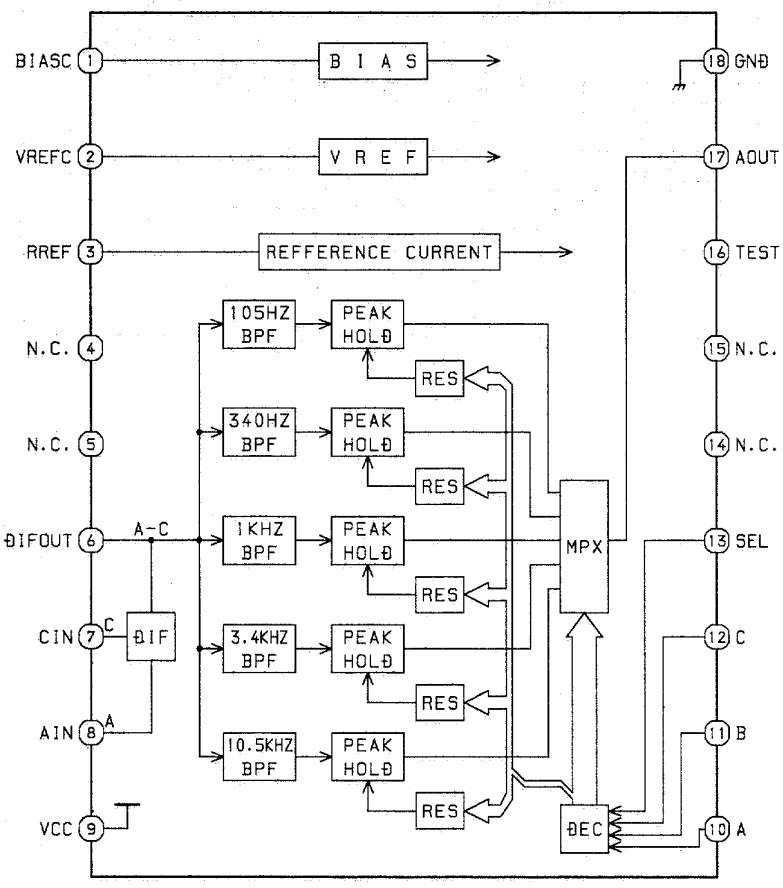
IC, CXA1553P



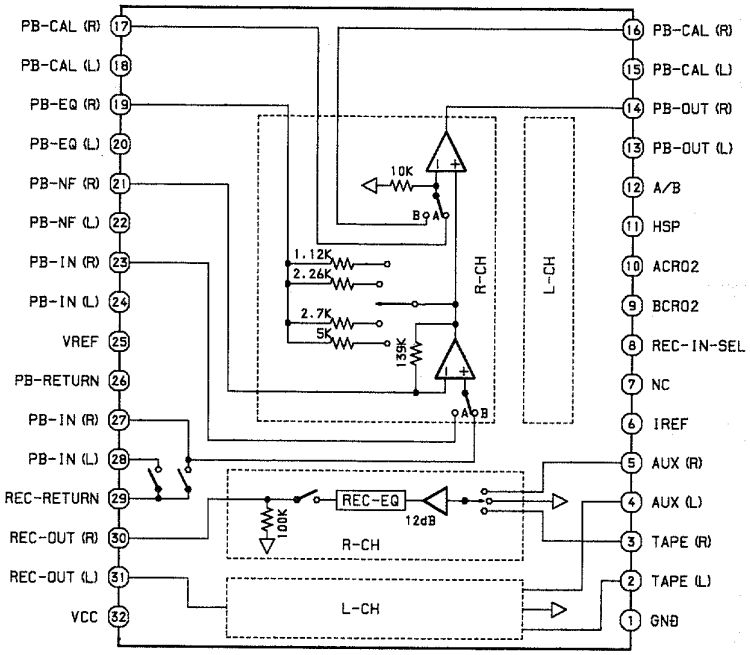
IC, BA3880S



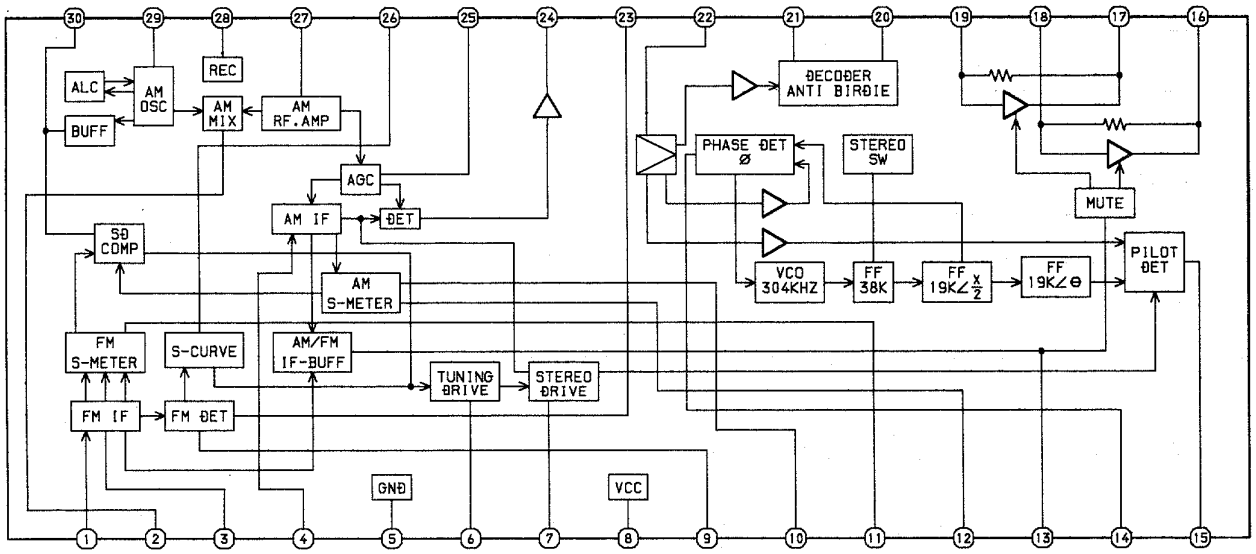
IC, BA3835S



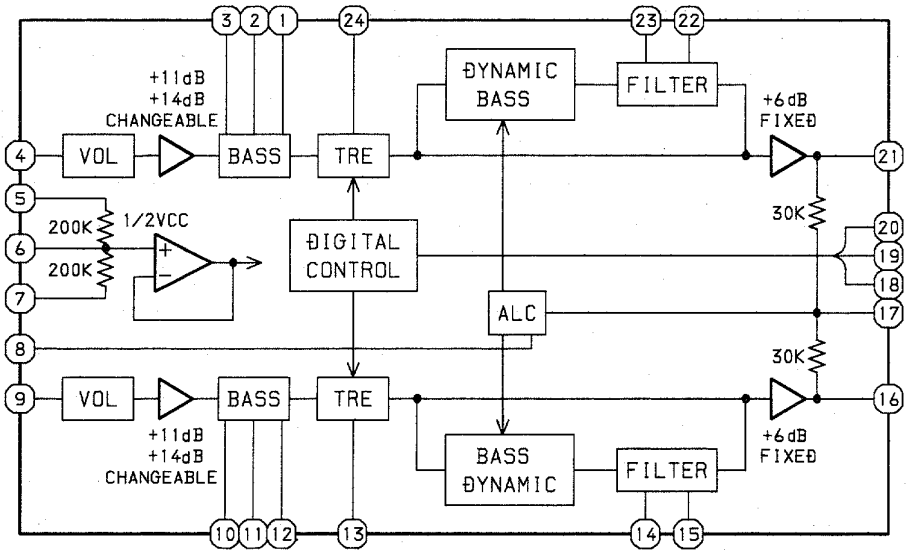
IC, BA7762FS



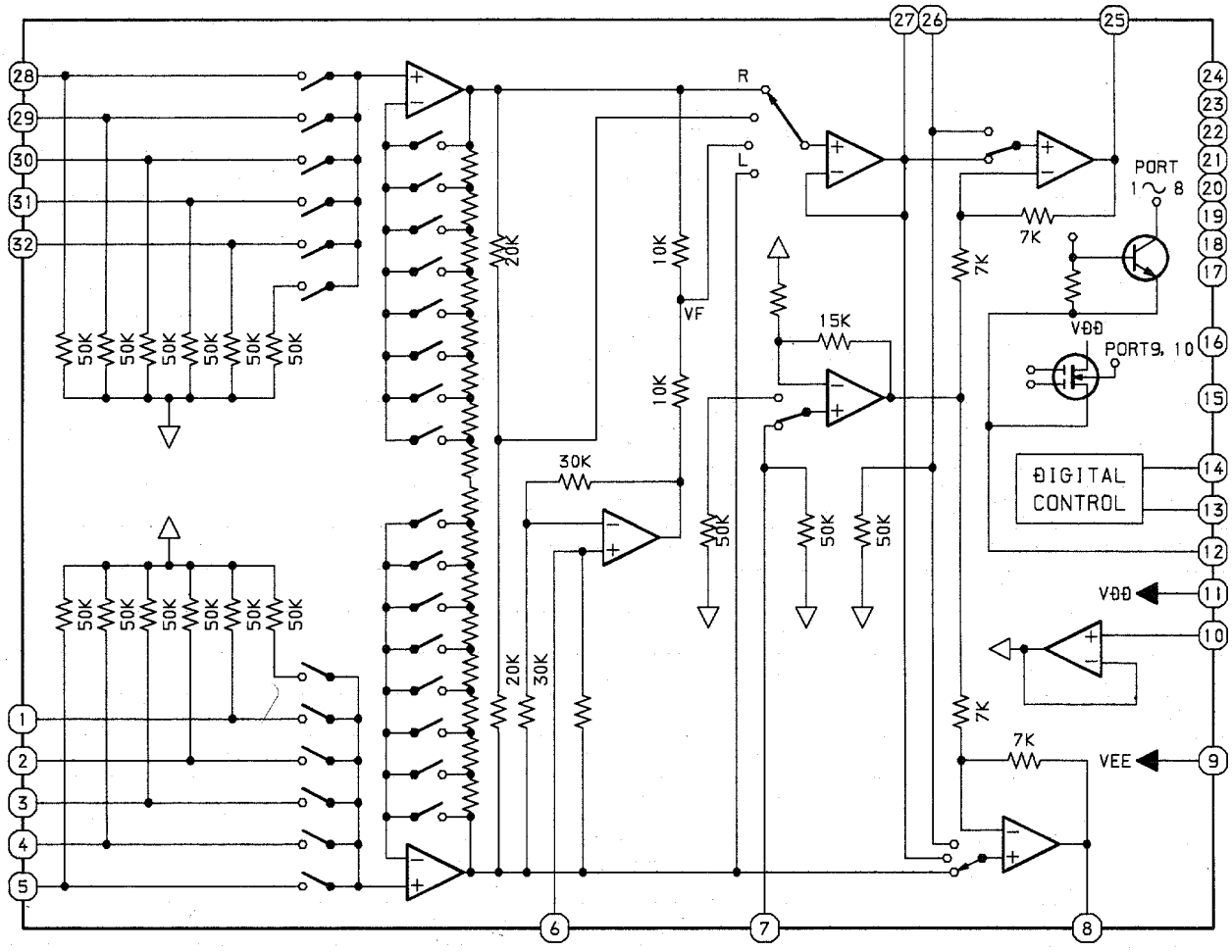
IC, LA1837



IC, BH3864F



IC, BH3810FS



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	I-$\overline{\text{RMC}}$	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/$\overline{\text{BBE}}$	I/O	FL segment P16 output / BBE data input to diode.
58	P15/$\overline{\text{DSP}}$	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/$\overline{\text{DOLBY}}$	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/$\overline{\text{CST 2}}$	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/$\overline{\text{REB}}$	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/$\overline{\text{CAM 2}}$	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/$\overline{\text{CAM 1}}$	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/$\overline{\text{CST 1}}$	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/$\overline{\text{REA}}$	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	$\overline{\text{LED}}$ ▶▶	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-$\overline{\text{IFC}}$/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

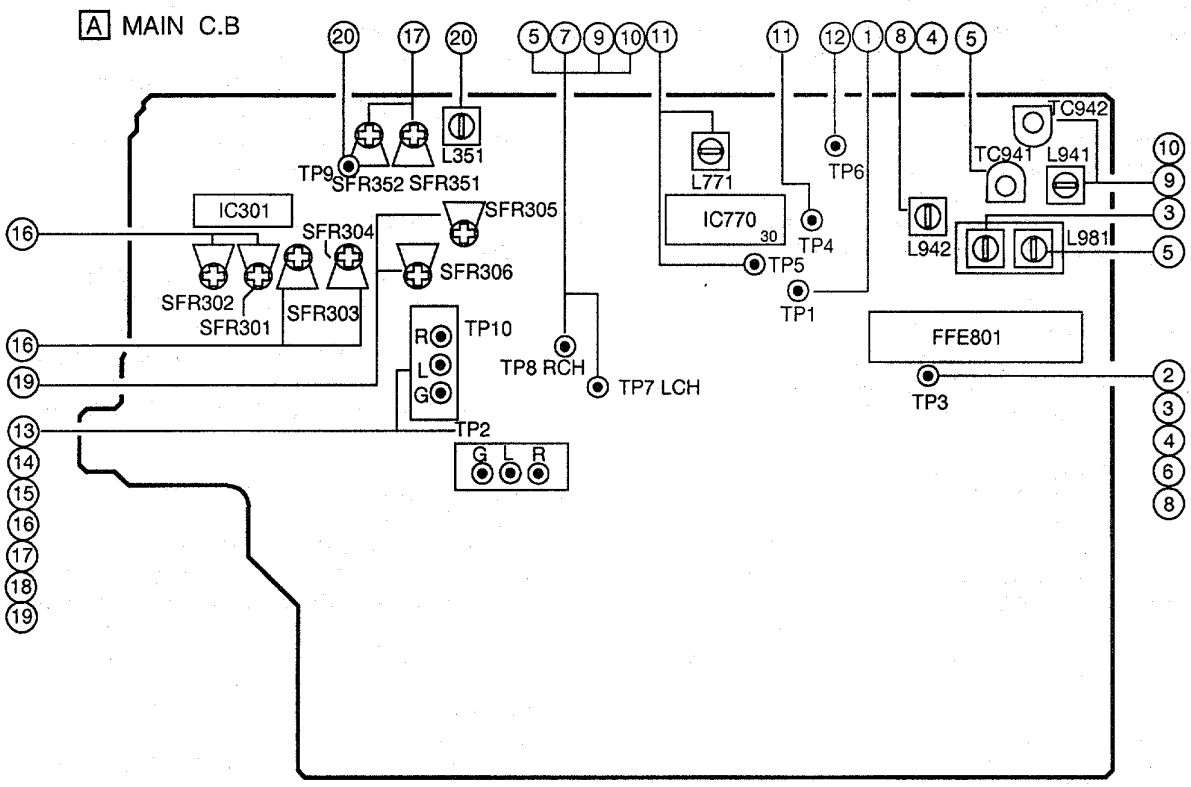
<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</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-5E54) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CL</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-5E54).</td></tr>
<tr><td>7</td><td>T-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>$\overline{\text{FM}}$/SW</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>$\overline{\text{MW}}$/SW</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>IF-IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</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>AM-IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-IN</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>A-IN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>A-OUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

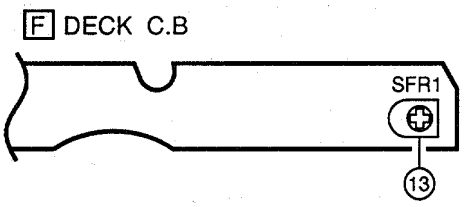
IC, NJW1102B

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.

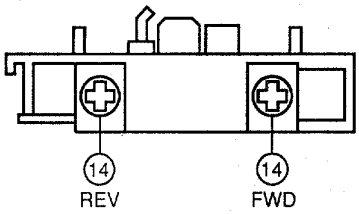
44	DBIN	I	To modify B NR decoder input.
45	LPIN	I	From surround channel delay input.
46~48	DBC 1~3	I	Dolby B NR control 1~3.
49	NC	–	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	–	Not used.

ADJUSTMENT <TUNER / DECK>





DECK–1 P, DECK–2 R / P / E HEAD



< TUNER SECTION >

1. Clock Check
   Settings : • Test point : TP1
   Method : Set to MW 1710kHz[U,LH,HR],1602kHz[EZ,K] and check that the test point is 2160kHz ± 0.045kHz [U,LH,HR], 2052kHz ± 0.045kHz[EZ,K]

2. AM(MW) VT Check (U,LH,EZ,K)
   Settings : • Test point : TP3 (VT)
   Method : Set to AM(MW) 1710kHz, 1602kHz and check that the test point is 6.0V ± 1.0V [U,LH], 7.5V ± 1.0V [EZ,K]

3. MW VT Adjustment (HR)
   Settings : • Test point : TP3 (VT)
   • Adjustment location : L981
   Method : Set to MW 1710kHz and adjust L981 so that the test point becomes 8.5V ± 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.

4. LW VT Adjustment (EZ,K)
   Settings : • Test point : TP3 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.

5. AM(MW) Tracking Adjustment
   Settings : • Test point : TP7, TP8
   • Adjustment location :
   L981 ..... 1000kHz [U,LH]
   L981 ..... 999kHz [EZ,K]
   L981 ..... 600kHz [HR]
   TC941 ..... 1400kHz [HR]
   Method : Set to AM(MW) 1000kHz[U,LH], 999kHz[EZ,K] and adjust L981 so that the test point becomes maximum.
   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.[HR]

6. FM VT Check
Settings : • Test point : TP3 (VT)
Method : Set to FM 108.0MHz, 87.5MHz and check that the test point is less than 8.5V (108.0MHz),more than 1.5V (87.5MHz).

7. FM Tracking Check
Settings : • Test point : TP7, TP8
• Input level : adjustable
Method : • Set to FM 98.0MHz and check that the test point is 2 ± 6dB[U,LH,HR], 6 ± 6dB[EZ,K].

8. SW VT Adjustment (HR)
Settings : • Test point : TP3 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 7.0V ± 0.05V.

9. 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.

10. LW Tracking Adjustment (EZ,K)
Settings : • Test point : TP7, TP8
• Input level : adjustable
• Adjustment location :
L941 ..... 144kHz
TC942 ..... 290kHz
Method : Set up TC942 to center before adjustment.
The level at 144kHz is adjust to MAX by L941.
Then the level at 290kHz is adjust to MAX by TC942.

11. 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 0V ± 0.04V.
Next, check that the distortion is less than 1.3%

12. 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.

AM(MW)
Settings : • Input level : adjustable
Method : Check auto stop at AM(MW) 1000kHz[U,LH], MW 999kHz[EZ,K,HR] and the level is 35 ~ 60dB.

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

SW (HR)
Settings : • Input level : adjustable
Method : Check auto stop at SW 12MHz and the level is less than 60 dB.

< DECK SECTION >

13. Tape Speed Adjustment
Settings : • Test tape : TTA–100
• Test point : TP2[U,LH,HR], TP10[EZ,K]
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

14. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA–300
• Test point : TP2[U,LH,HR], TP10[EZ,K]
• 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.

15. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA–300
• Test point : TP2[U,LH,HR], TP10[EZ,K]
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.

16. PB Sensitivity Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA–200
• Test point : TP2[U,LH,HR],TP10[EZ,K]
• 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)[U,LH,HR], 300 mV(Deck 2)[U,LH,HR], 245 mV(Deck 1,2)[EZ,K].

17. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA–602
• Test point : TP2[U,LH,HR],TP10[EZ,K]
• 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 test point becomes 210mV[U,LH,HR], 170mV[EZ,K]. 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.

18. REC/PB Sensitivity Check (U,LH,HR)
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 17mV ± 3dB.

19. REC/PB Sensitivity adjustment (EZ,K)
Settings : • Test tape : TTA–602
• Test point : TP10
• 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 TP10 becomes 17mV. Record and play back the 1kHz signals and adjust the SFRs so that the output is 17mV ± 0.5dB.

20. 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 85kHz ± 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	2dB ± 6dB (U,LH,HR)
	6dB ± 6dB (EZ,K)
	[at 87.5 / 98.0MHz/ 108.0MHz]
S/N 50dB Quieting sensitivity :	
	STEREO
	30dB ± 6dB (U,LH,HR)
	34dB ± 5dB (EZ,K)
	[at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	STEREO
	More than 64dB (U,LH,HR)
	More than 59dB (EZ,K)
	[at 98.0MHz]
	MONO
	More than 65dB (U,LH,HR)
	More than 60dB (EZ,K)
	[at 98.0MHz]
Distortion :	STEREO
	Less than 2%
	[at 98.0MHz]
Stereo separation :	More than 25dB (U,LH,HR)
	More than 22dB (EZ,K)
	[at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity :	55dB ± 5dB
(S/N 20 dB)	[at 600kHz (U,LH)]
	[at 603kHz (HR,EZ,K)]
	53dB ± 5dB
	[at 1000 / 1400kHz (U,LH)]
	[at 999 / 1404kHz (HR,EZ,K)]
Distortion :	Less than 1.5%
	[at 1000kHz (U,LH)]
	[at 999kHz (HR,EZ,K)]
Intermediate frequency :	450kHz

<SW SECTION> (HR)

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

<LW SECTION> (EZ,K)

Sensitivity :	66dB ± 5dB (144kHz)
(S/N 20dB)	63dB ± 5dB (198/290kHz)
Distortion :	Less than 1.5% (198kHz)
Intermediate frequency :	450kHz

<DECK SECTION>

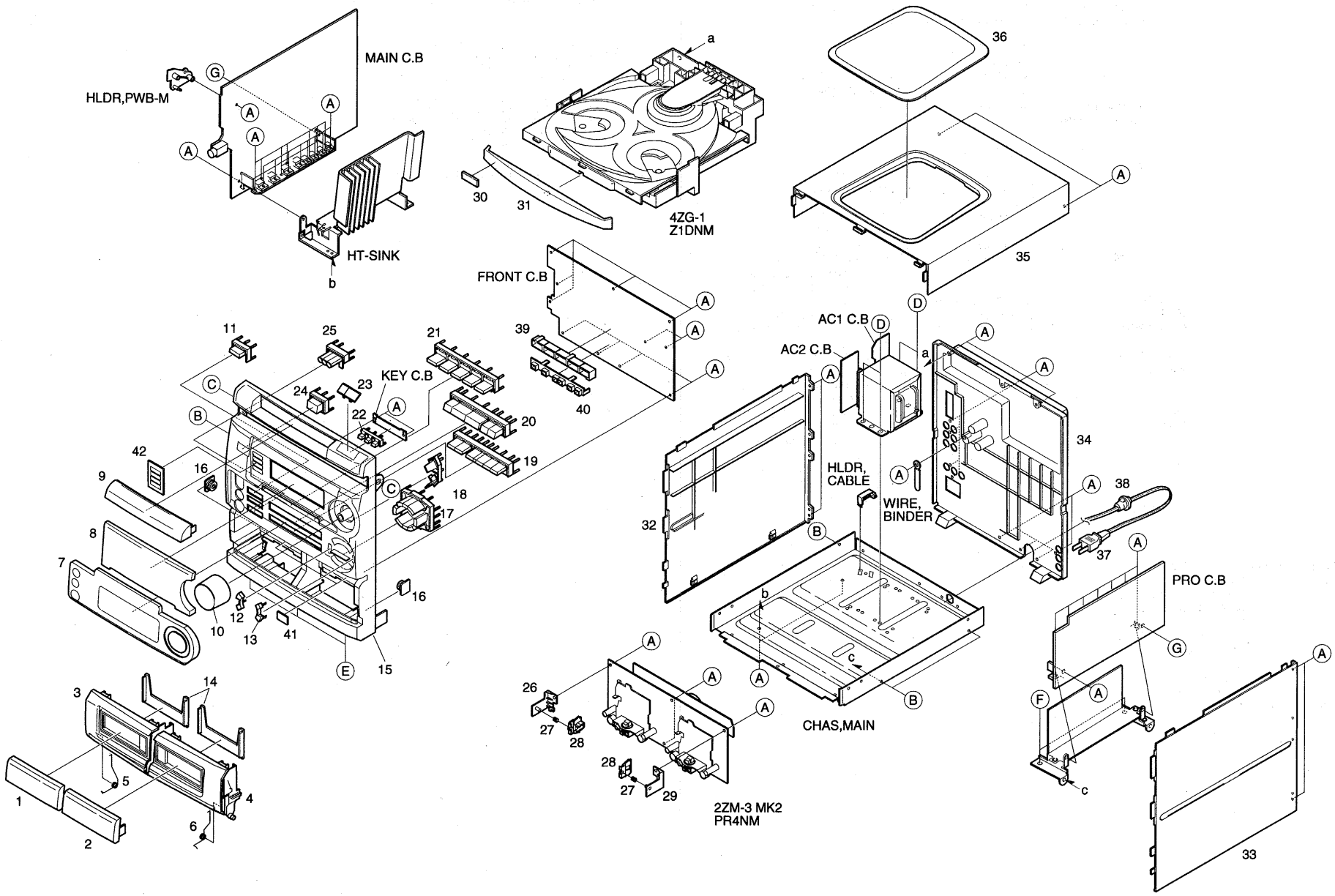
Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.18% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm (F.F)
	75 ~ 130g-cm (REW)
Back tension :	2 ~ 7g-cm (DECK1,2)
PB Output level :	330mV ± 1dB (DECK1)[U,LH,HR]
	300mV ± 1dB (DECK2)[U,LH,HR]
	300mV ± 1dB (DECK1,2)[EZ,K]
REC/PB Output level :	180mV ± 1dB
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2,1kHz)
Noise level (PB/REC) :	Less than 2.0mV (NORM, DOLBY OFF/ ON B.C)[U,LH,HR]
	Less than 2.0/1.2mV (NORM, DOLBY OFF/ON B.C)[EZ,K]
	Less than 1.5mV (CrO2, DOLBY OFF/ ON B.C)[U,LH,HR]
	Less than 1.5/0.9mV (CrO2, DOLBY OFF/ON B.C)[EZ,K]
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

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-NFT-910-019		IB, U(ESF)<U>
1	87-NFT-916-019		IB, E(EGFSI)M<EZ>
1	87-NFT-915-019		IB, K(E)M<K>
1	87-NFT-912-019		IB, LH(ES)I<LH>
1	87-NFT-911-019		IB, H(ECA)I<HR>
2	87-A90-064-016		FEEDER-ANT,FM (SHS)<U,LH,HR>
2	87-043-106-016		ANT,FM1007AWG<EZ,K>
3	87-006-225-019		ANT,LOOP ANT NC2<EXP HR>
3	87-A90-054-016		ANT,LOOP AM-CONC<HR>
4	87-043-095-019		ANT,WIRE<HR>
5	87-NFR-610-019		RC UNIT,RC-7AS09
⚠ 6	87-A90-312-016		PLUG,CONVERSION WTN-1157R1<LH,HR>

MECHANICAL EXPLODED VIEW 1 / 1

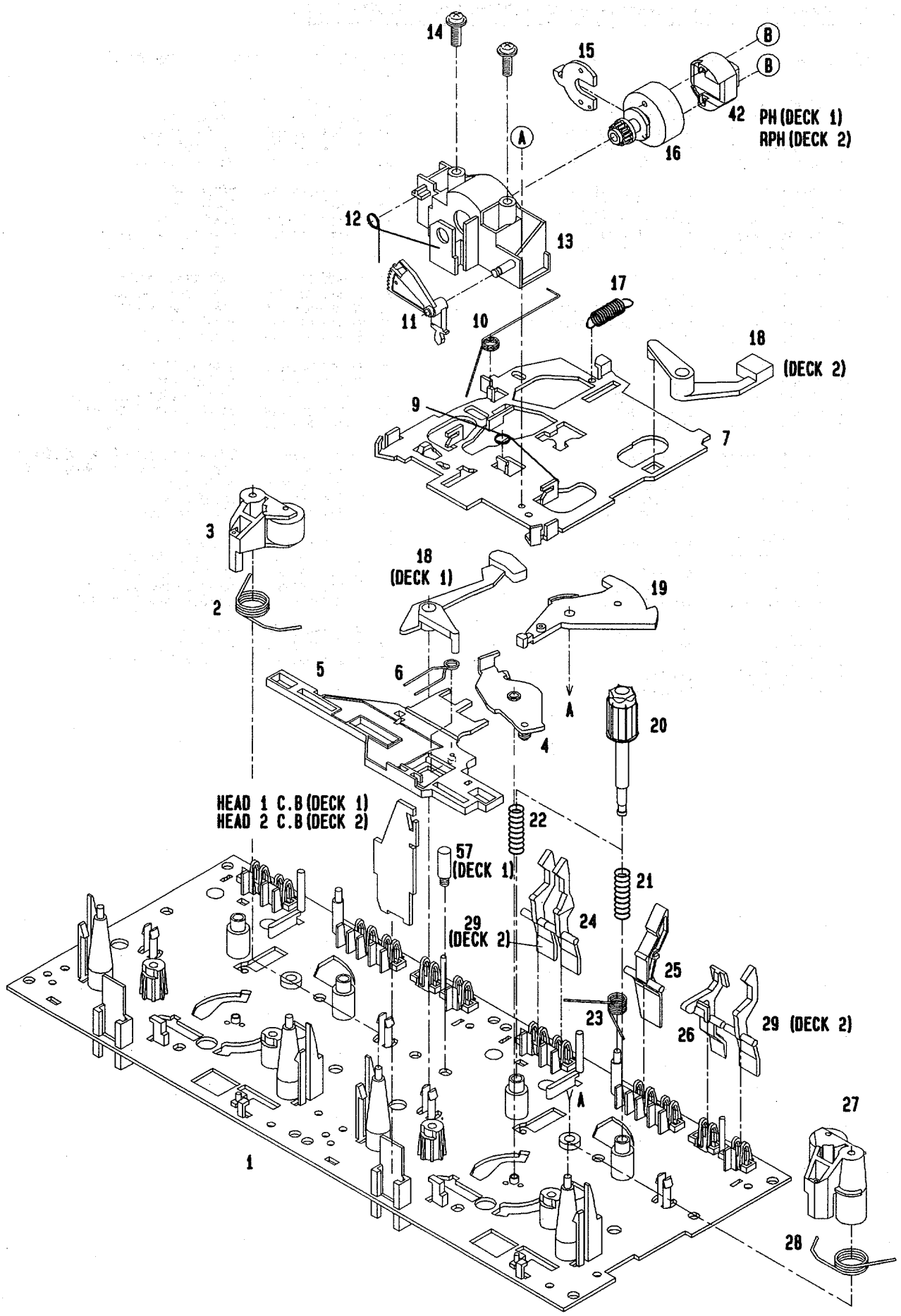


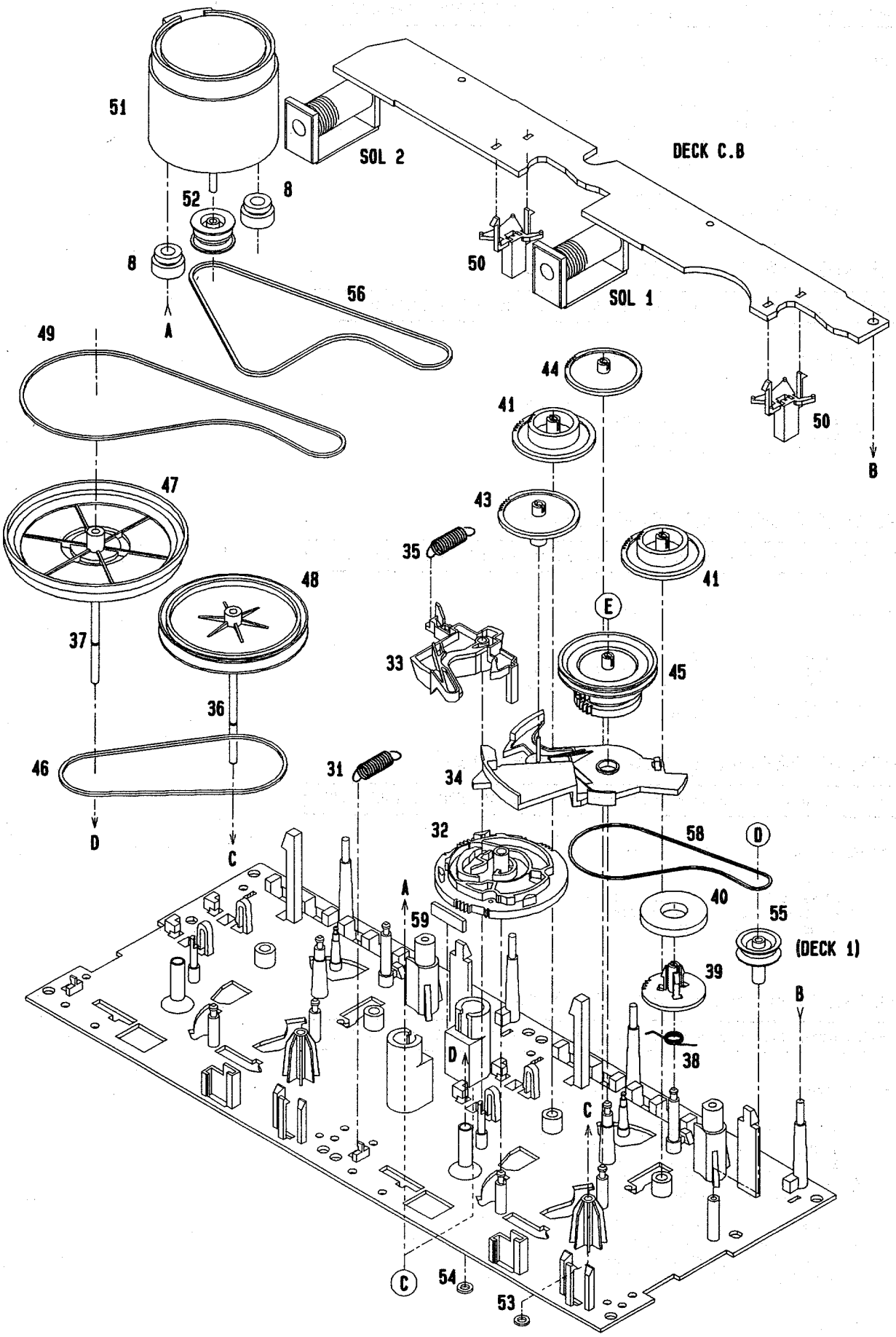
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF6-041-010		WINDOW,CASS 1
2	87-NF6-042-010		WINDOW,CASS 2
3	87-NF6-013-010		BOX,CASS 1E<U,K,EZ>
3	87-NF6-011-010		BOX,CASS 1H<HR,LH>
4	87-NF6-014-010		BOX,CASS 2E<U,K,EZ>
4	87-NF6-012-010		BOX,CASS 2H<HR,LH>
5	82-NF5-218-010		SPR-T,EJECT 1(SIN)
6	82-NF5-219-010		SPR-T,EJECT 2(SIN)
7	87-NFT-016-010		PANEL,FR E<EZ>
7	87-NFT-015-010		PANEL,FR H<HR,LH>
7	87-NFT-014-010		PANEL,FR K<K>
7	87-NFT-013-010		PANEL,FR U<U>
8	87-NFT-006-010		WINDOW,DISPLAY E<EZ>
8	87-NFT-005-010		WINDOW,DISPLAY H<EXP EZ>
9	87-NF6-043-010		WINDOW,CD
10	87-NF6-036-010		KNOB,RTRY VOL
11	87-NFT-017-010		KEY,PRO E<EZ>
11	87-NFT-018-110		KEY,PRO H<EXP EZ>
12	87-NF6-040-010		PANEL,T-BASS
13	87-NF6-039-010		PANEL,BBE
14	86-NF6-061-010		REFLECTOR,CASS
15	87-NFT-003-010		CABI,FR E<K,EZ>
15	87-NFT-001-010		CABI,FR H<HR,LH>
15	87-NFT-002-010		CABI,FR U<U>
16	87-063-165-010		OIL-DMPR,150
17	87-NF6-026-010		KEY,CURSOR H
18	87-NF6-028-010		KEY,MIC
19	87-NF6-033-010		KEY,REC E<K,EZ>
19	87-NF6-032-010		KEY,REC H<U,HR,LH>
20	87-NF6-049-010		KEY,ASSY PLAY
21	87-NF6-029-010		KEY,FUNCTION
22	87-NF6-045-010		KEY,DISC
23	87-NF6-024-010		KEY,CD
24	87-NF6-025-010		KEY,POWER
25	87-NF6-034-010		KEY,KARAOKE
26	87-NF4-216-010		HLDR,LOCK 1
27	82-NF5-228-010		SPR-C,LOCK
28	82-NF5-229-010		PLATE,LOCK(*)
29	87-NF4-217-010		HLDR,LOCK 2
30	82-NE6-067-010		BADGE,AIWA 30N
31	87-NF6-018-010		PANEL,TRAY E
32	87-NF6-022-010		PANEL,LEFT
33	87-NF6-023-010		PANEL,RIGHT
34	87-NFT-033-010		CABI,REAR EZSTNM<EZ>
34	87-NFT-029-010		CABI,REAR HRST<HR>
34	87-NFT-032-010		CABI,REAR KSTNM<K>
34	87-NFT-030-010		CABI,REAR LHST<LH>
34	87-NFT-028-010		CABI,REAR UST<U>
35	87-NF6-021-010		PANEL,TOP
36	86-NF6-007-010		WINDOW,TOP<EXP U>
36	86-NF6-101-010		WINDOW,TOP UL<U>
⚠ 37	87-050-016-010		AC CORD ASSY,E<EZ>
⚠ 37	87-050-079-010		AC CORD ASSY,E BLK<HR,LH>
⚠ 37	87-A80-023-010		AC CORD ASSY,K 3P W<K>
⚠ 37	87-050-053-010		AC CORD ASSY,U-2<U>
38	87-085-185-010		BUSHING,AC CORD(E)CM-22B<EXP U>
38	87-085-189-010		BUSHING,AC CORD(U) CM-22C<50U>
39	87-NF6-201-010		GUIDE,FUN
40	87-NF6-202-010		GUIDE,PLAY
41	81-532-080-010		LBL,CASS-COMPT
42	87-NFT-031-010		PLATE,PRO N
A	87-067-703-010		BVT2+3-10 W/O SLOT
B	87-721-096-410		QT2+3-10 W/O SLOT
C	87-721-097-410		QT2+3-12 W/O SLOT
D	87-078-019-010		S-SCREW,IT+4-6 SWCH12A
E	87-067-688-010		BVTT+3-6
F	87-067-584-010		BVT2+3-6 W/O SLOT
G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU

TAPE MECHANISM EXPLODED VIEW 1 / 1

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SOL 2
DECK C.B
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SOL 1
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58
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59
(DECK 1)
39
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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 ".

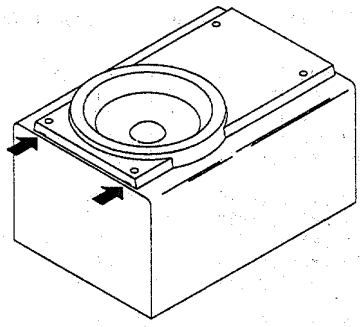
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		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

SPEAKER DISSASSEMBLY INSTRUCTION

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。

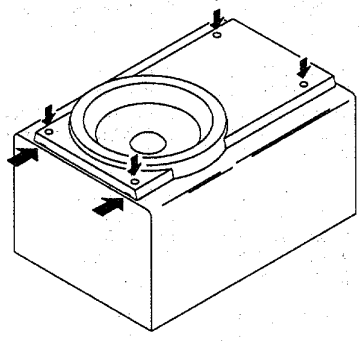
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit andthen remove the speaker units.



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。

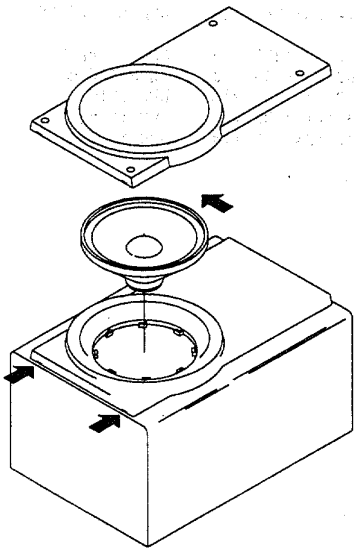
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hold where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then 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 arround speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turnning to clock-wise direction unit "click" sound comes out.



SPEAKER PARTS LIST (SX-NA54<YU>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSG-001-019		PANEL,FR R
2	87-NSG-002-019		PANEL,FR L
3	87-NSG-007-019		GRILLE,FRAME ASSY R
4	87-NSG-008-019		GRILLE,FRAME ASSY L
5	87-NSG-602-019		SPKR,W 160
6	87-NST-604-019		SPKR,T 60
7	87-NSG-605-019		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-NAV75<Y,YJ,YL>)

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

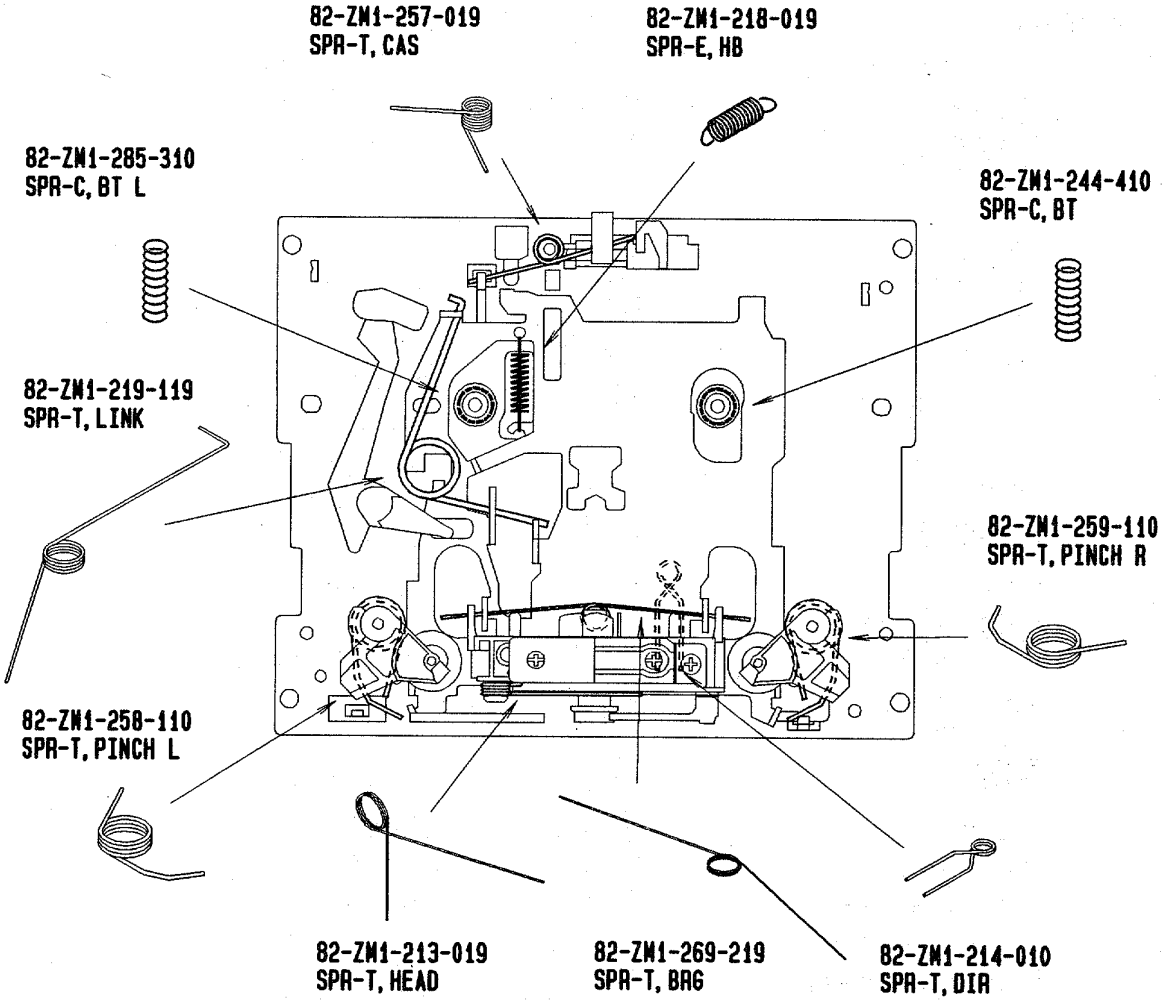
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSR-009-019		GRILLE,FRAME ASSY
2	83-096-614-019		SPEAKER CODE
3	87-NST-610-019		TERMINAL,ASSY

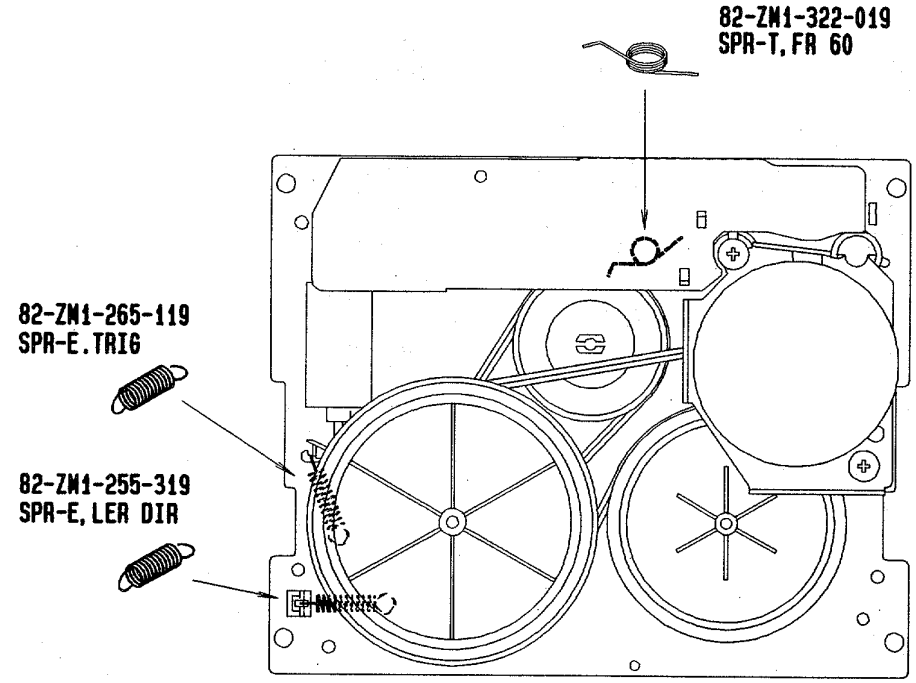
SPEAKER PARTS LIST (SX-C423<Y,YJ>)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSX-005-010		GRILLE,FRAME ASSY(R230)
1	85-NSY-010-010		GRILLE,FRAME ASSY(C400)
2	85-NSX-601-010		SPEAKER(R230)
2	85-NSY-602-010		SPEAKER(C400)
3	81-VSA-010-010		SPEAKER,CORD(R230)
3	83-NSM-010-010		SPEAKER,CORD(C400)
4	85-NSX-009-010		PANEL,FR(R230)
4	85-NSY-001-010		PANEL,FR(C400)
5	85-NSY-002-010		PANEL,REAR(C400)

SPRING APPLICATION POSITION





REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G— —	
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