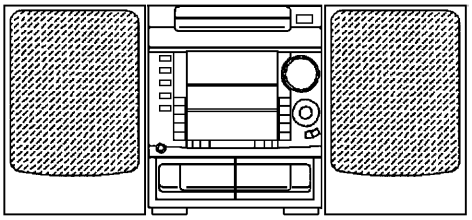
aiwa

aiwa SERVICE

NSX-F9
NSX-F98
NSX-F99
NSX-F12
NSX-F15



COMPACT DISC STEREO
CASSETTE RECEIVER

SERVICE MANUAL

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 6ZG-1 SDFNM, SDF
- TYPE : LHA,HRA,EZA,KA,VA(9), UA(98,99),HD(9),LH(12,15)

SUPPLEMENT

SYSTEM	CD – CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-F9	CX-NF9 (TYPE:LHA,HRA,HD, EZA,KA,VA)	SX–NAVF9	RC UNIT, 6AS01
NSX-F98	CX-NF98 (TYPE:UA)	SX–FNF98	
NSX-F99	CX-NF99 (TYPE:UA)	SX–NAVF99	
NSX-F12	CX-NF12 (TYPE:LH)	SX–SNAVF12	
NSX-F15	CX-NF15 (TYPE:LH)	SX–NAVF9 SX-R280	

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

- These models have many changes, especially circuit and wiring diagrams as compared with the previous Service Manual as shown in the following :

NSX-F9 (LH,HE)	S/M code No. 09-96B-173-5FP
NSX-F9 (HR)	S/M code No. 09-971-178-5FP
NSX-F9/98/99 (EZ,K:9,U:98,99)	S/M code No. 09-971-178-4FP
NSX-F9 (V)	S/M code No. 09-972-182-1FP

S/M Code No. 09–978–206–5FP

TABLE OF CONTENTS

SPECIFICATIONS <9(EZ,K,V),98U,99U>

<FM Tuner section>

Tuning range
V:
FM1 (OIRT)
65 MHz to 74 MHz (10 kHz step)
FM2 (CCIR)
87.5 MHz to 108 MHz (50 kHz step)
EZ,K,U:
87.5 MHz to 108 MHz

Usable sensitivity(IHF)
V: FM1 (OIRT) 15.3 dBf
FM2 (CCIR) 12.8 dBf
U: 13.2 dBf
EZ,K: 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> (EZ,K,V)

Tuning range 144 kHz to 290 kHz

Usable sensitivity 1400 uV/m

Antenna Loop antenna

<Amplifier section>

***Power output**
V:
Rated 160 W + 160 W
(6 ohms, T.H.D.1%,1 kHz)
Reference: 200 W + 200 W
(6 ohms, T.H.D.10%,1 kHz)
EZ,K:
Rated 160 W + 160 W
(6 ohms,T.H.D.1%,1 kHz/DIN 45500)
Reference: 200 W + 200 W
(6 ohms,T.H.D.10%,1 kHz/DIN 45324)
DIN MUSIC POWER
280 W + 280 W
*(without connecting to the SURROUND SPEAKERS)
U:
160 W + 160 W
(50 Hz-20 kHz, THD less than 1%, 6 ohms)

Total harmonic distortion
EZ,K,V:
0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)
U:
0.1% (20 W, 1 kHz, 6 ohms)

Inputs
VIDEO/AUX : 210 mV(adjustable)
MIC 1,MIC 2: 1.4mV (10 kohms)

Outputs
LINE OUT: 200mV
SUPER WOOFER: 3.1 V
SPEAKERS: accept speakers of 6 ohms or more
SURROUND SPEAKERS: accept speakers of 16 ohms or more
PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo

Frequency response
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 83 dB (1 kHz, 0 dB)

Harmonic distortion 0.05 % (1 kHz, 0 dB)

Wow and flutter Unmeasurable

<Speaker system SX–NAVF9> (EZ,K,V)
<Speaker system SX–NAVF99> (99U)

Cabinet type 3 way, bass reflex (magnetic shielded type)

Speakers
Woofer :
160 mm cone type
Tweeter :
80 mm cone type
Super tweeter:
20 mm ceramic type

Impedance 6 ohms

Output sound pressure level 87 dB/W/m

Dimensions (W x H x D) 260 x 353 x 330mm ($10^1/_4$ x 14 x 13 in.)

Weight 5.9 kg (13 lbs.)

<Speaker system SX–FNF98> (98U)

Cabinet type 3 way, bass reflex with surround speaker (magnetic shielded type)

Speakers
Woofer :
160 mm cone type
Tweeter :
80 mm cone type
Super tweeter:
20 mm ceramic type
Surround speaker:
80 mm cone type

Impedance
Front speaker: 6 ohms
Surround speaker: 16 ohms

Output sound pressure level 87 dB/W/m

Dimensions (W x H x D) 260 x 353 x 310mm ($10^1/_4$ x 14 x $12^1/_4$ in.)

Weight 5.8 kg (12 lbs. 13 oz.)

<General> (EZ,K,V)

Power requirements 230 V AC,50 Hz

Power consumption 210 W

Dimensions of main unit (W x H x D) 300 x 357.5 x 374 mm

Weight of main unit 12 kg

<General> (U)

Power requirements 120 V AC,60 Hz

Power consumption 165 W

Dimensions of main unit (W x H x D) 300 x 357.5 x 374 mm ($11^7/_8$ x $14^1/_8$ x $14^3/_4$ in.)

Weight of main unit 12 kg (26 lbs. 8 oz.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

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

SPECIFICATIONS <9(LH,HR,HD),12LH,15LH>

<FM Tuner section>

Tuning range	**HD:** 76 MHz to 108 MHz **EXCEPT HD:** 87.5 MHz to 108 MHz
Usable sensitivity(IHF)	**HD:** 12.8 dBf **EXCEPT HD:** 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

<SW Tuner section> (HR)

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

***Power output**	Rated 160 W + 160 W (6 ohms,T.H.D.1%,1 kHz) Reference: 200 W + 200 W (6 ohms, T.H.D.10%,1 kHz)

*(without connecting to the SURROUND SPEAKERS)

Total harmonic distortion	0.1% (20 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210mV(adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 3.1 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	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	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–SNAVF12> (12LH)
<Speaker system SX–NAVF9> (EXCEPT 12LH)

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 353 x 330mm
Weight	5.9 kg

<General>

Power requirements	**HD:** AC 100-120V or 200-240 V switchable 50/60 Hz **EXCEPT HD:** 120 V / 220 – 230 V / 240 V AC, switchable 50/60 Hz
Power consumption	210 W
Dimensions of main unit (W x H x D)	300 x357.5 x 374 mm
Weight of main unit	**HR, HD:** 12 kg **LH:** 13 kg

- Design and specifications are subject to change without notice.

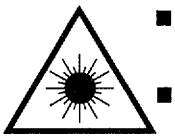
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.

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

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla 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.

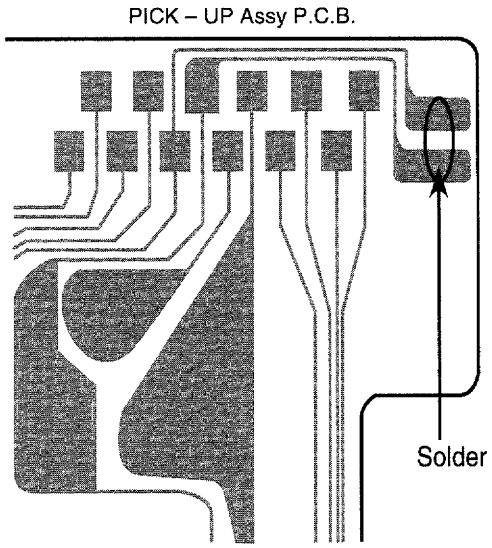
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

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
	86-NFW-620-010		C-IC,LC866556W-5E74<EXCEPT EZ>
	86-NF9-622-010		C-IC,LC866560W-5E98<EZ>
	87-A20-154-010		IC,SPS-444-1
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-070-232-010		IC,BA3834S
	87-A20-056-010		IC,BA3880S
	87-017-915-080		IC,BU4094BCF
	87-A20-456-040		C-IC,BH3810 FS
	87-A20-613-040		C-IC,BU9262AFS
	87-017-888-080		IC,NJM4558MD
	87-A20-437-010		C-IC,M62431FP
	86-NFZ-655-010		IC,LC27131D(Z)
	87-A20-438-010		IC,LA1837
	87-A20-450-040		C-IC,BH 3864 F
	87-A20-440-040		IC,BU1920FS<EZ>
	87-070-060-040		C-IC,TA2040AF<HD>
TRANSISTOR			
	87-026-463-080		TR,2SA933SRS
	89-213-702-010		TR,2SB1370 (1.8W)
	87-A30-075-080		C-TR,2SA1235F
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-083-080		TR,CSD1489B
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-106-070		C-TR,CMBT5551
	87-026-263-080		C-TR,RN1410
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN 1016
	87-A30-098-010		TR,FP 1016
	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
	89-112-965-080		TR,2SA1296 (0.75W)
	87-A30-071-080		C-TR,RT1N 144C
	87-026-228-080		C-TR,DTA124EK
	87-A30-084-080		TR,CSB1058B
	87-026-232-080		TR,DTA144WK
	87-A30-085-070		C-TR,CSA1362GR
	89-505-434-540		C-FET,2SK543-TB(4/5)<HR,EZ,K,V>
	87-026-226-080		C-TR,DTA143EK<HD>
	89-327-143-080		C-TR,2SC2714(O)
DIODE			
	87-A40-003-080		ZENER,MTZJ4.3A
	87-A40-246-080		DIODE,IN4148 T-72
	87-017-654-060		DIODE,GBU6J
	87-A40-269-080		C-DIODE,MC2836
	87-017-437-080		DIODE,1N4148M
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-211-080		ZENER UZ36BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-382-080		C-DIODE,RB705D
	87-A40-205-080		ZENER,UZ6.2BSC
	87-A40-202-080		ZENER,UZ5.1BSB
	87-A40-274-010		DIODE,FMB-G16L
	87-017-481-080		ZENER,UZ5.6BSB
	87-A40-192-080		ZENER,UZ4.3BSA
	87-A40-239-080		ZENER,UZ5.6 BSA

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C101	87-A10-231-090		CAP,E 3300-80
C102	87-A10-231-090		CAP,E 3300-80
C103	87-016-658-090		CAP,E 4700-35 SMG
C104	87-016-658-090		CAP,E 4700-35 SMG
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-012-368-080		C-CAP,S 0.1-50 F
C107	87-012-368-080		C-CAP,S 0.1-50 F
C108	87-012-368-080		C-CAP,S 0.1-50 F
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-196-080		CHIP CAPACITOR,0.1-25
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C113	87-010-247-080		CAP, ELECT 100-50V
C114	87-010-384-080		CAP, ELECT 100-25V<EXCEPT U>
C115	87-010-384-080		CAP, ELECT 100-25V<EXCEPT U>
C116	87-010-247-080		CAP, ELECT 100-50V
C117	87-010-430-080		CAP, ELECT 100-63
C118	87-010-263-080		CAP, ELECT 100-10V
C119	87-010-260-080		CAP, ELECT 47-25V
C120	87-010-403-080		CAP, ELECT 3.3-50V
C121	87-012-140-080		CAP 470P
C122	87-010-263-080		CAP, ELECT 100-10V<U>
C123	87-010-247-080		CAP, ELECT 100-50V
C124	87-010-112-080		CAP, ELECT 100-16V
C125	87-010-235-080		CAP,E 470-16 SME
C126	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C127	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C129	87-010-393-080		CAP, ELECT 100-35V
C200	87-012-368-080		C-CAP,S 0.1-50 Z F
C201	87-010-401-080		CAP, ELECT 1-50V
C202	87-010-401-080		CAP, ELECT 1-50V
C205	87-010-178-080		C-CAP,S 1000P-50 B
C206	87-010-178-080		C-CAP,S 1000P-50 B
C207	87-010-404-080		CAP, ELECT 4.7-50V
C208	87-010-404-080		CAP, ELECT 4.7-50V
C209	87-010-404-080		CAP, ELECT 4.7-50V
C210	87-010-404-080		CAP, ELECT 4.7-50V
C211	87-010-186-080		CAP,CHIP 4700P
C212	87-010-186-080		CAP,CHIP 4700P
C213	87-010-260-080		CAP, ELECT 47-25V
C214	87-010-260-080		CAP, ELECT 47-25V
C215	87-010-196-080		C-CAP,S 0.1-25 Z F
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-012-368-080		C-CAP,S 0.1-50 F
C222	87-012-368-080		C-CAP,S 0.1-50 F
C223	87-010-194-080		CAP, CHIP 0.047<EXCEPT EZ,K>
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	87-010-197-080		CHIP CAP 0.01 DM<EZ,K>
C228	87-010-178-080		CHIP CAP 1000P<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 SL<EZ,K>
C232	87-010-176-080		C-CAP,S 680P-50 SL<EZ,K>
C233	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C234	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C235	87-010-191-080		C-CAP,S 0.015-50 FZ GRM<EZ,K>
C236	87-010-191-080		C-CAP,S 0.015-50 FZ GRM<EZ,K>
C237	87-010-197-080		CHIP CAP 0.01 DM<EZ,K>
C238	87-010-197-080		CHIP CAP 0.01 DM<EZ,K>
C239	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C240	87-010-318-080		C-CAP,S 47P-50 CH<EZ,K>
C242	87-010-405-080		CAP, ELECT 10-50V
C243	87-016-461-080		C-CAP,S 0.47-16 Z F
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-180-080		C-CER 1500P
C314	87-010-180-080		C-CER 1500P
C315	87-010-178-080		CHIP CAP 1000P
C316	87-010-178-080		CHIP CAP 1000P
C317	87-012-142-080		CAP, S 0.33-16
C318	87-012-142-080		CAP, S 0.33-16
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-179-080		CAP,CHIP S B1200P
C372	87-010-179-080		CAP,CHIP S B1200P
C373	87-010-179-080		CAP,CHIP S B1200P
C374	87-010-179-080		CAP,CHIP S B1200P
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-010-154-080		CAP CHIP 10P<EXCEPT U>
C401	87-010-187-080		CAP CHIP S5600P
C402	87-010-187-080		CAP CHIP S5600P
C403	87-010-405-080		CAP, ELECT 10-50V
C404	87-010-405-080		CAP, ELECT 10-50V
C405	87-010-260-080		CAP, ELECT 47-25V
C406	87-010-101-080		CAP, ELECT 220-16
C407	87-010-188-080		CAP,CHIP 6800P
C408	87-010-188-080		CAP,CHIP 6800P
C409	87-012-140-080		CAP 470P
C410	87-012-140-080		CAP 470P
C411	87-010-197-080		CAP, CHIP 0.01 DM
C412	87-010-197-080		CAP, CHIP 0.01 DM
C413	87-010-195-080		C-CAP,S 0.068-25 F
C414	87-010-195-080		C-CAP,S 0.068-25 F
C415	87-010-404-080		CAP, ELECT 4.7-50V
C416	87-010-404-080		CAP, ELECT 4.7-50V
C417	87-010-404-080		CAP, ELECT 4.7-50V
C418	87-010-404-080		CAP, ELECT 4.7-50V
C420	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C421	87-010-401-080		CAP, ELECT 1-50V
C422	87-010-401-080		CAP, ELECT 1-50V
C516	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-180-080		C-CER 1500P
C606	87-010-180-080		C-CER 1500P
C609	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C610	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C611	87-010-196-080		CHIP CAPACITOR,0.1-25
C613	87-010-404-080		CAP, ELECT 4.7-50V
C614	87-010-404-080		CAP, ELECT 4.7-50V
C615	87-010-183-080		C-CAP,S 2700P-50 B
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-010-196-080		CHIP CAPACITOR,0.1-25
C621	87-010-263-080		CAP, ELECT 100-10V
C622	87-010-196-080		CHIP CAPACITOR,0.1-25
C623	87-010-194-080		CAP, CHIP 0.047
C629	87-012-368-080		C-CAP,S 0.1-50 F
C630	87-012-368-080		C-CAP,S 0.1-50 F<EZ,K>
C631	87-016-247-080		C-CAP,0.1-50 F<EZ,K>
C632	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C633	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C636	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C637	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K>
C646	87-010-322-080		C-CAP,S 100P-50 CH
C647	87-010-322-080		C-CAP,S 100P-50 CH
C699	87-018-209-080		CAP,TC-U 0.1-50 Z F
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C715	87-010-322-080		C-CAP,S 100P-50 CH<EZ,K,V>
C721	87-010-312-080		C-CAP,S 15P-50 CH
C722	87-010-312-080		C-CAP,S 15P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C732	87-010-400-080		CAP, ELECT 0.47-50V<HD>
C733	87-010-404-080		CAP, ELECT 4.7-50V<HD>
C734	87-010-196-080		CHIP CAPACITOR,0.1-25<HD>
C737	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C738	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C740	87-010-197-080		CAP, CHIP 0.01 DM<HD>
C741	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C742	87-012-140-080		C-CAP,S 470P-50 J CH<HD>
C743	87-010-404-080		CAP, ELECT 4.7-50V<HD>
C744	87-010-260-080		CAP, ELECT 47-25V<HD>
C745	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C746	87-010-545-080		CAP, ELECT 0.22-50V<HD>
C747	87-010-197-080		CAP, CHIP 0.01 DM<HD>
C748	87-010-198-080		C-CAP,S 0.022-25 KB<HD>
C749	87-010-101-080		CAP, ELECT 220-16V<HD>
C755	87-010-197-080		CAP, CHIP 0.01 DM
C756	87-010-197-080		CAP, CHIP 0.01 DM
C757	87-010-318-080		C-CAP,S 47P-50 CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C759	87-012-154-080		C-CAP,S 150P-50 CH<EZ,K,V>
C760	87-012-154-080		C-CAP,S 150P-50 CH<EZ,K,V>
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C762	87-010-197-080		CAP, CHIP 0.01 DM
C763	87-010-194-080		CAP, CHIP 0.047
C765	87-010-197-080		CAP, CHIP 0.01 DM
C766	87-010-197-080		CAP, CHIP 0.01 DM
C767	87-010-405-080		CAP, ELECT 10-50V
C768	87-010-197-080		CAP, CHIP 0.01 DM
C769	87-010-408-080		CAP, ELECT 47-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C770	87-015-821-080		C-CAP 0.047
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-194-080		CAP, CHIP 0.047
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-015-819-080		CAPACITOR,0.01
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-400-080		CAP, ELECT 0.47-50V
C786	87-010-400-080		CAP, ELECT 0.47-50V
C787	87-010-184-080		CHIP CAPACITOR 3300P(K)
C788	87-010-184-080		CHIP CAPACITOR 3300P(K)
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-010-178-080		CHIP CAP 1000P<EXCEPT EZ>
C793	87-012-156-080		C-CAP,S 220P-50<EZ>
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16<EXCEPT HD>
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-010-182-080		C-CAP,S 2200P-50 B<LH,U>
C797	87-010-180-080		C-CAP,S 1500P-50 B<EXCEPT LH,U>
C798	87-010-182-080		C-CAP,S 2200P-50 B<LH,U>
C798	87-010-180-080		C-CAP,S 1500P-50 B<EXCEPT LH,U>
C799	87-010-194-080		CAP, CHIP 0.047
C812	87-010-197-080		CAP, CHIP 0.01 DM
C813	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-197-080		CAP, CHIP 0.01 DM
C816	87-010-197-080		CAP, CHIP 0.01 DM
C817	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C818	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C819	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-408-080		CAP, ELECT 47-50V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C861	87-012-156-080		C-CAP,S 220P-50 CH<EZ>
C862	87-012-156-080		C-CAP,S 220P-50 CH<EZ>
C863	87-012-140-080		CAP, 470P CH<EZ>
C864	87-010-405-080		CAP, ELECT 10-50V<EZ>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ>
C866	87-010-405-080		CAP, ELECT 10-50V<EZ>
C867	87-010-197-080		CAP, CHIP 0.01 DM<EZ>
C868	87-010-316-080		C-CAP,S 33P-50 CH<EZ>
C869	87-010-314-080		C-CAP,S 22P-50V CH<EZ>
C940	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>
C941	87-010-314-080		C-CAP,S 22P-50V CH<HR>
C942	87-010-151-080		C-CAP,S 7P-50 CH<EZ,K,V>
C943	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C944	87-014-051-080		CAPACITOR (PP) 560P<HR>
C945	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C947	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>
C949	87-014-049-080		CAP,PP 470P-100 J<EZ,K,V>
C950	87-014-073-080		CAP,PP 4700P-100 J<HR>
C952	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V,HR>
C953	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C954	87-010-404-080		CAP, ELECT 4.7-50V<HR>
C956	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V>
C956	87-010-263-080		CAP,E 100-10V<HR>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C957	87-010-311-080		C-CAP,S 12P-50 J CH<EZ,K,V>
C958	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K,V>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
C962	87-010-401-080		CAP, ELECT 1-50V<HR,EZ,K,V>
CF801	87-008-261-010		FILTER,SFE10.7MA5-A<EXCEPT EZ,K,V>
CF801	87-008-423-010		FILTER,IF SFE10.7MS3G-A<EZ,K,V>
CF802	87-008-261-010		FILTER,SFE10.7MA5-A<EXCEPT EZ,K,V>
CF802	87-785-747-010		CF MS2 GHY R<EZ,K,V>
CON102	87-NF4-645-010		CONN ASSY 4P SP
CON351	86-NF5-618-110		CONN ASSY,8P RPB
FB301	87-008-372-080		FLTR,EM1BLO1 RN1<EZ,K>
FB616	87-008-372-080		FLTR,EM1BLO1 RN1
FB617	87-008-372-080		FLTR,EM1BLO1 RN1
FB646	87-008-372-080		FLTR,EM1BLO1 RN1
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM<LH,HR,U>
FFE801	A8-6ZA-191-030		6ZA-1 FEENM<EZ,K>
FFE801	A8-6ZA-193-030		6ZA-1 FEVNM<V>
FFE801	A8-6ZA-19D-070		6ZA-1 YFEJNC<HD>
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-099-474-010		JACK,PIN 3P BLK W/SW<EXCEPT EZ>
J253	87-A60-401-010		JACK,PIN 3P B/R/W HS<EZ,K,V>
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-099-625-010		JACK PIN 4P,RVS (KM)
J801	87-A60-202-010		TERMINAL,ANT 4P<EXCEPT EZ,K,V>
J801	87-A60-403-010		TERMINAL,ANT PAL 2P<EZ,K>
J801	87-033-239-010		TERMINAL,ANT 4P HSP-154<V>
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
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 85K BIAS
L601	87-003-231-080		C-COIL,2125 1UH
L770	87-005-847-080		COIL,2.2UH(CECS)
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-245-010		FLTR,CFAZH-450(TOK)<EXCEPT HD,HR>
L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HD,HR>
L791	87-003-293-010		COIL, TRAP MPX<U,LH>
L791	87-A50-027-010		COIL, 1 POLE MPX<EXCEPT U,LH>
L792	87-003-293-010		COIL, TRAP MPX<U,LH>
L792	87-A50-027-010		COIL, 1 POLE MPX<EXCEPT U,LH>
L832	87-005-847-080		COIL,2.2UH(CECS)
L850	87-005-847-080		COIL,2.2UH(CECS)<EZ>
L940	81-754-629-010		CONNECTOR XH 2P(UL)<HR>
L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ,K,V>
L941	81-A50-022-010		COIL,ANT SW (COI)7.96MHZ<HR>
L942	81-A50-173-010		COIL,OSC SW-N (COI)<HR>
L942	87-A50-019-010		COIL,OSC LW (COI)856KHZ<EZ,K,V>
L943	87-005-372-080		COIL S 1MUH<HR>
L944	87-A50-159-010		COIL,10UH<HR>
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)<LH,U,HD>
L981	86-NF4-666-010		COIL,AM PACK 3(TOK)<HR>
L981	86-NF4-668-010		COIL,AM PACK 2(TOM)<EZ,K,V>
⚠ PR201	87-026-682-080		PROTECTOR,10A 60V 491<EXCEPT U>
⚠ PR201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR202	87-026-682-080		PROTECTOR,10A 60V 491<EXCEPT U>
⚠ PR202	87-026-691-080		FUSE,10A 125V 251<U>
R123	87-022-200-080		RESISTOR, METAL 0.56 1W
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,OSA-SS-212DM5
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L
SFR301	87-024-435-080		SFR 33K RH 063EC
SFR302	87-024-435-080		SFR 33K RH 063EC
SFR303	87-024-435-080		SFR 33K RH 063EC
SFR304	87-024-435-080		SFR 33K RH 063EC
SFR305	87-024-436-080		SFR,47K RH063EC
SFR306	87-024-436-080		SFR,47K RH063EC
SFR351	87-024-436-080		SFR,47K RH063EC

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SFR352	87-024-436-080		SFR,47K RH063EC
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9<HR>
TC942	87-011-221-080		TRIMMER,CER 30P<HR,EZ,K,V>
TH201	87-A90-221-080		C-THMS,100K<EXCEPT U>
TH202	87-A90-221-080		C-THMS,100K<EXCEPT U>
W4	88-906-261-110		FF-CABLE,6P 1.25 260MM
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X750	87-030-394-010		VIB,CER 3.5498MHZ CSA-228<HD>
X771	87-030-354-010		VIB,CER 450.0KHZ BFU<HR>
X850	87-KT1-608-010		XTAL 4.332MHZ<EZ>
FRONT C.B			
C121	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-197-080		CAP, CHIP 0.01 DM
C202	87-010-197-080		CAP, CHIP 0.01 DM
C203	87-010-198-080		CAP, CHIP 0.022
C204	87-010-198-080		CAP, CHIP 0.022
C205	87-010-198-080		CAP, CHIP 0.022
C206	87-010-198-080		CAP, CHIP 0.022
C208	87-010-555-040		CAP,E 100-10 GAS
C209	87-010-196-080		CHIP CAPACITOR,0.1-25
C210	87-010-494-040		CAP,E 1-50 GAS
C211	87-010-196-080		CHIP CAPACITOR,0.1-25
C212	87-A10-189-040		CAP,E 220-10
C213	87-010-178-080		CHIP CAP 1000P
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C215	87-010-194-080		CAP, CHIP 0.047
C216	87-010-197-080		CAP, CHIP 0.01 DM
C217	87-010-494-040		CAP,E 1-50 GAS
C218	87-010-196-080		CHIP CAPACITOR,0.1-25
C219	87-010-196-080		CHIP CAPACITOR,0.1-25
C220	87-010-320-080		CHIP CAP 68P
C221	87-010-312-080		C-CAP,S 15P-50 CH
C222	87-010-316-080		C-CAP,S 33P-50 CH
C224	87-010-112-040		CAP,E 100-16
C225	87-010-560-040		CAP,E 10-50 GAS
C226	87-010-178-080		CHIP CAP 1000P
C351	87-010-497-040		CAP,E 4.7-35 GAS
C352	87-010-497-040		CAP,E 4.7-35 GAS
C353	87-010-981-040		CAP,E 22-35 5L SRE
C363	87-012-156-080		C-CAP,S 220P-50 CH
C364	87-012-156-080		C-CAP,S 220P-50 CH
C381	87-010-196-080		CHIP CAPACITOR,0.1-25
C382	87-010-196-080		CHIP CAPACITOR,0.1-25
C383	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-196-080		CHIP CAPACITOR,0.1-25
C385	87-010-322-080		C-CAP,S 100P-50 CH
C386	87-015-694-040		E/CAP 0.47-50
C387	87-010-400-040		CAP,E 0.47-50
C389	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-196-080		CHIP CAPACITOR,0.1-25
C601	87-010-405-040		CAP,E 10-50
C602	87-010-176-080		C-CAP,S 680P-50 SL
C603	87-010-186-080		CAP,CHIP 4700P
C604	87-010-322-080		C-CAP,S 100P-50 CH
C605	87-010-321-080		CHIP CAPACITOR,82P(J)
C606	87-010-196-080		CHIP CAPACITOR,0.1-25
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-322-080		C-CAP,S 100P-50 CH
C609	87-010-545-040		CAP,E 0.22-50 SME
C610	87-010-177-080		C-CAP,S 820P-50 SL
C611	87-010-406-040		CAP,E 22-50 SME
C614	87-010-248-040		CAP,E 220-10 SME
C615	87-010-498-040		CAP,E 10-16 GAS
C619	87-016-461-080		CHIP-CAPACITOR,0.47-16F
C701	87-010-421-040		CAP,E 4.7-50 5L
C702	87-010-112-040		CAP,E 100-16
C705	87-010-493-040		CAP,E 0.47-50 GAS
C706	87-010-196-080		CHIP CAPACITOR,0.1-25
C707	87-010-196-080		CHIP CAPACITOR,0.1-25
C708	87-010-400-040		CAP,E 0.47-50
C709	87-010-198-080		CAP, CHIP 0.022
C710	87-010-400-040		CAP,E 0.47-50
C711	87-010-197-080		CAP, CHIP 0.01 DM
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-185-080		C-CAP,S 3900P-50 B
C714	87-010-596-080		CAP, S 0.047-16
C715	87-010-181-080		CAP,CHIP S 1800P
C716	87-010-198-080		CAP, CHIP 0.022
C717	87-010-176-080		C-CAP,S 680P-50 SL
C718	87-010-188-080		CAP,CHIP 6800P
C719	87-012-145-080		CAP, CHIP S 270P CH
C720	87-010-183-080		C-CAP,S 2700P-50 B
C721	87-015-696-040		CAP,E 2.2-50 SRA
C722	87-015-696-040		CAP,E 2.2-50 SRA
C723	87-015-681-040		E/CAP 10-16
C724	87-010-198-080		CAP, CHIP 0.022
C725	87-010-493-040		CAP,E 0.47-50 GAS
C726	87-010-197-080		CAP, CHIP 0.01 DM
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-185-080		C-CAP,S 3900P-50 B
C729	87-010-596-080		CAP, S 0.047-16
C730	87-010-181-080		CAP,CHIP S 1800P
C731	87-010-198-080		CAP, CHIP 0.022
C732	87-010-176-080		C-CAP,S 680P-50 SL
C733	87-010-188-080		CAP,CHIP 6800P
C734	87-012-145-080		CAP, CHIP S 270P CH
C735	87-010-183-080		C-CAP,S 2700P-50 B
C809	87-012-365-080		C-CAP,S 0.027-25VBK
C810	87-012-365-080		C-CAP,S 0.027-25VBK
C811	87-A10-201-080		C-CAP,S0.33-16 KB
C812	87-A10-201-080		C-CAP,S0.33-16 KB
C813	87-010-196-080		CHIP CAPACITOR,0.1-25
C814	87-015-680-040		CAP,E 47-10 7L
C815	87-010-234-040		CAP,E 47-16 5L
C816	87-010-196-080		CHIP CAPACITOR,0.1-25
C817	87-016-081-080		C-CAP,S 0.1-16 RK
C818	87-010-560-040		CAP,E 10-50 GAS
C901	87-010-319-080		C,CAP,S 56P-50 J CH
C902	87-010-319-080		C,CAP,S 56P-50 J CH
C903	87-012-141-080		C,CAP,S 0.22-16ZF
C904	87-010-188-080		CAP CHIP 6800P
C905	87-010-180-080		C,CAP,S 1500P-50 KB
C906	87-010-197-080		CHIP CAPACITOR,0.0 1DM
C907	87-010-197-080		CHIP CAPACITOR,0.0 1DM
C908	87-010-188-080		CAP CHIP 6800P
C909	87-010-181-080		CAP CHIP S 1800P
C910	87-010-196-080		CHIP CAPACITOR,0.1-25
C911	87-010-196-080		CHIP CAPACITOR,0.1-25
C912	87-010-408-040		CAP,E 47-50 M SME
C913	87-010-401-040		CAP,E 1-50 M SME
C914	87-010-494-040		CAP,E 1-50 5L SRE
C915	87-010-184-080		C,CAP,S 3300P-50 KB
C916	87-010-184-080		C,CAP,S 3300P-50 KB
C917	87-012-141-080		C,CAP,S 0.22-16ZF
C919	87-010-263-040		CAP,E 100-10 M SME
C920	87-010-322-080		C-CAP,S 100P-50 J CH
C921	87-010-322-080		C-CAP,S 100P-50 J CH
C922	87-010-322-080		C-CAP,S 100P-50 J CH
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FL301	86-NF9-653-010		FL,BJ539GK
FL302	86-NF9-616-010		FL,BJ504GK
J601	87-A60-284-010		JACK,3.5MO (MSC)
J621	87-A60-284-010		JACK,3.5MO (MSC)
L901	87-005-212-080		COIL,220UH K EL0606
LED401	87-070-281-080		LED,SLZ736A-25-S-T1
LED402	87-070-281-080		LED,SLZ736A-25-S-T1

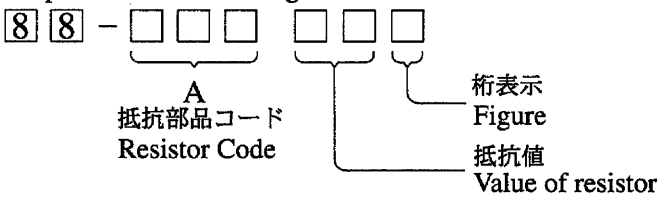
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED403	87-070-281-080		LED,SLZ736A-25-S-T1
LED404	87-070-281-080		LED,SLZ736A-25-S-T1
LED405	87-070-281-080		LED,SLZ736A-25-S-T1
LED406	87-070-281-080		LED,SLZ736A-25-S-T1
LED407	87-017-979-010		LED,SEL2413E
LED408	87-017-979-010		LED,SEL2413E
LED409	87-017-979-010		LED,SEL2413E
LED410	87-017-979-010		LED,SEL2413E
LED411	87-017-979-010		LED,SEL2413E
LED412	87-017-979-010		LED,SEL2413E
LED413	87-017-979-010		LED,SEL2413E
LED414	87-017-979-010		LED,SEL2413E
LED420	87-A40-259-080		LED,SLR-342VCT31 RED
LED421	87-A40-259-080		LED,SLR-342VCT31 RED
LED422	87-A40-259-080		LED,SLR-342VCT31 RED
LED423	87-A40-259-080		LED,SLR-342VCT31 RED
LED425	87-070-278-010		LED,SLZ-738A-24-S
LED426	87-070-278-010		LED,SLZ-738A-24-S
LED427	87-070-290-010		LED,SLZ 936-30-S
LED428	87-070-290-010		LED,SLZ 936-30-S
LED429	87-070-278-010		LED,SLZ-738A-24-S
LED430	87-070-278-010		LED,SLZ-738A-24-S
⚠ PR101	87-026-689-080		PROTECTOR,1A 49 60 V<EXCEPT U>
R341	87-022-355-080		C-RES,S10K-1/10W F
R342	87-022-355-080		C-RES,S10K-1/10W F
R343	87-022-355-080		C-RES,S10K-1/10W F
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
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
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
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S327	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S328	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
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
S333	87-A90-095-080		SW,TACT EVQ11G04M
S334	87-A90-095-080		SW,TACT EVQ11G04M
S335	87-A90-095-080		SW,TACT EVQ11G04M
S336	87-A90-095-080		SW,TACT EVQ11G04M
S337	87-A90-095-080		SW,TACT EVQ11G04M
SW201	87-A90-392-010		SW,RTRY EC16B24304-20 NON
VR601	86-NFA-607-010		VR,RTRY 10K15AX1 1 V XV0121PVN
W2	87-A80-052-010		FF-CABLE, 14P 1.25 280MM BLK
W3	87-A80-053-010		FF-CABLE, 8P 1.25 200MM BLK
W5	88-913-191-110		FF-CABLE,13P 1.25
W6	88-915-161-110		FF-CABLE, 15P 1.25
X201	87-A70-070-080		VIB,CER 5.76MHZ CRHF

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
VR C.B			
SW202	87-A90-340-010		SW,RTRY EC16B24204-15
CD KEY C.B			
LED451	87-017-979-010		LED,SEL2413E
LED452	87-017-979-010		LED,SEL2413E
LED453	87-017-979-010		LED,SEL2413E
LED454	87-017-979-010		LED,SEL2413E
LED455	87-017-979-010		LED,SEL2413E
LED456	87-017-979-010		LED,SEL2413E
LED457	87-017-979-010		LED,SEL2413E
LED458	87-017-979-010		LED,SEL2413E
LED459	87-017-979-010		LED,SEL2413E
LED460	87-017-979-010		LED,SEL2413E
S451	87-A90-095-080		SW,TACT EVQ11G04M
S452	87-A90-095-080		SW,TACT EVQ11G04M
S453	87-A90-095-080		SW,TACT EVQ11G04M
S454	87-A90-095-080		SW,TACT EVQ11G04M
S455	87-A90-095-080		SW,TACT EVQ11G04M
S456	87-A90-095-080		SW,TACT EVQ11G04M
S457	87-A90-095-080		SW,TACT EVQ11G04M
AC2 C.B			
⚠ PR1	87-026-692-080		FUSE,10A 491 60V<LH,HR,HD>
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491 60V<EZ,K,V>
⚠ PR2	87-026-692-080		FUSE,10A 491 60V<LH,HR,HD>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491 60V<EZ,K,V>
⚠ PR5	87-026-692-080		FUSE,10A 491 60V<LH,HR,HD>
⚠ PR5	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR5	87-026-682-080		PROTECTOR,10A 491 60V<EZ,K,V>
⚠ PR6	87-026-692-080		FUSE,10A 491 60V<LH,HR,HD>
⚠ PR6	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR6	87-026-682-080		PROTECTOR,10A 491 60V<EZ,K,V>
⚠ W1	85-NF5-628-010		F-CABLE 7P-2.5
PT C.B			
⚠ F101	87-035-368-010		FUSE,4A 250V T<EXCEPT U>
⚠ F101	87-035-493-010		FUSE,8A 125V T-237<U>
⚠ F102	87-035-368-010		FUSE,4A 250V T<LH,HR,HD>
⚠ FC1	87-033-213-080		CLAMP, FUSE
⚠ FC2	87-033-213-080		CLAMP, FUSE
⚠ FC3	87-033-213-080		CLAMP, FUSE<LH,HR,HD>
⚠ FC4	87-033-213-080		CLAMP, FUSE<LH,HR,HD>
⚠ PT101	86-NF9-636-010		PT,6NF-9 LH N<LH>
⚠ PT101	86-NF9-635-010		PT,6NF-9 HN<HR>
⚠ PT101	86-NF9-637-010		PT,6NF-9 EN<EZ,K,V>
⚠ PT101	86-NF9-638-010		PT,6NF-9 UN<U>
⚠ PT101	86-NF9-639-010		PT,6NF-9 HD N<HD>
⚠ 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 SW S 2301<LH,HR>
⚠ SW101	87-A90-234-010		SW,SL1-2-2<HD>
DECK C.B			
W001	82-ZM3-601-019		RBN,CORD,4P-75
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY, 27
SOL2	82-ZM1-618-310		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

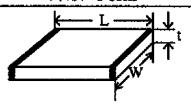
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
CON502	87-099-756-019		CONN, 15P 9604 S F
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A
FAN C.B			
RY103	87-A90-143-010		RELAY,DG12D2-OS(M)<U>

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

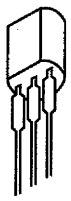
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



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



2SA1296GR
KTA1266GR
KTC3198GR

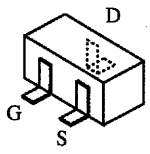
CSD1489B
CSB1058B

C2N5401

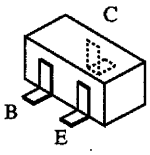
2SA933S

2SB1370
FN1016
FP1016

2SK2723



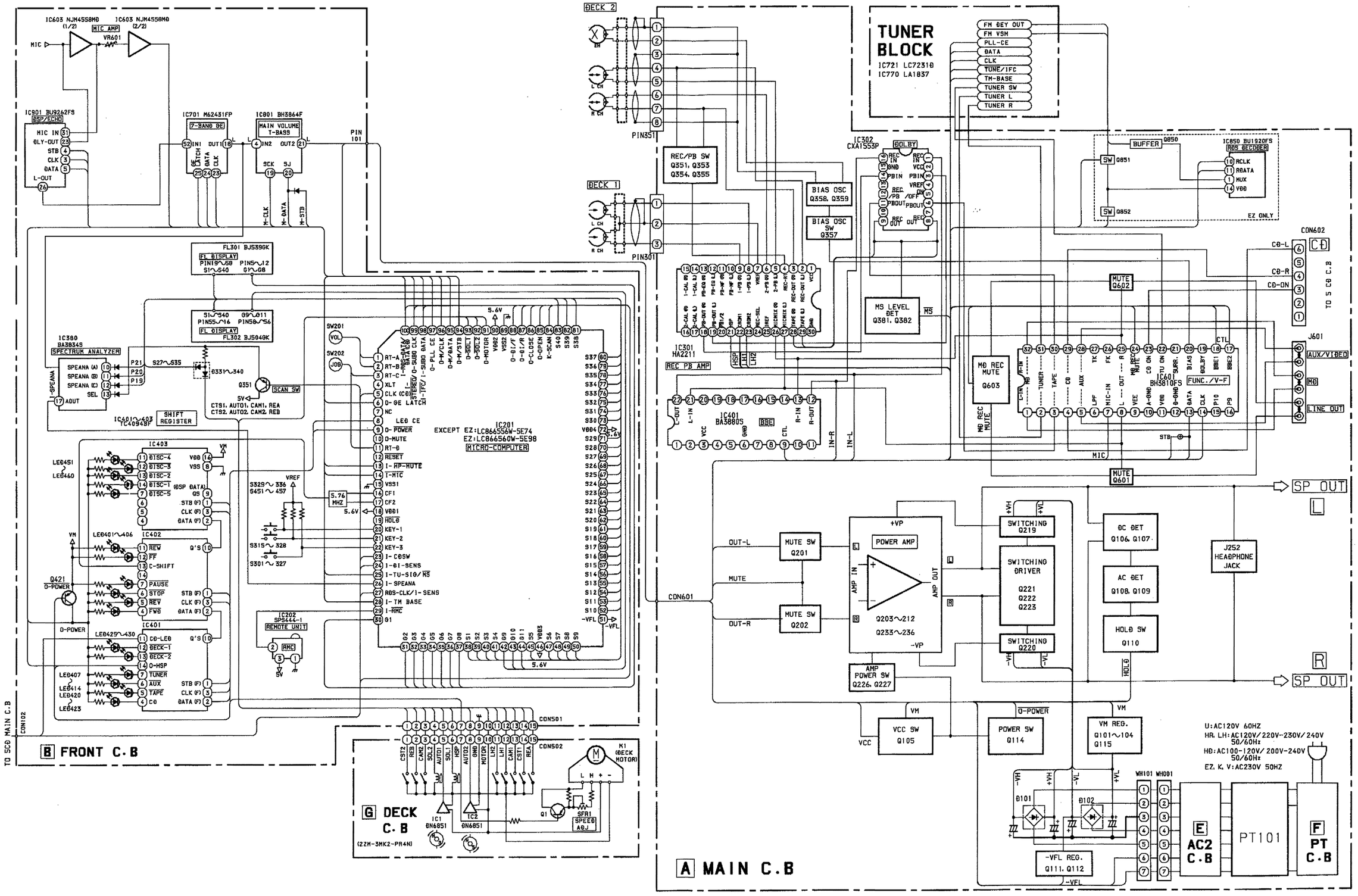
2SK2158
2SK543

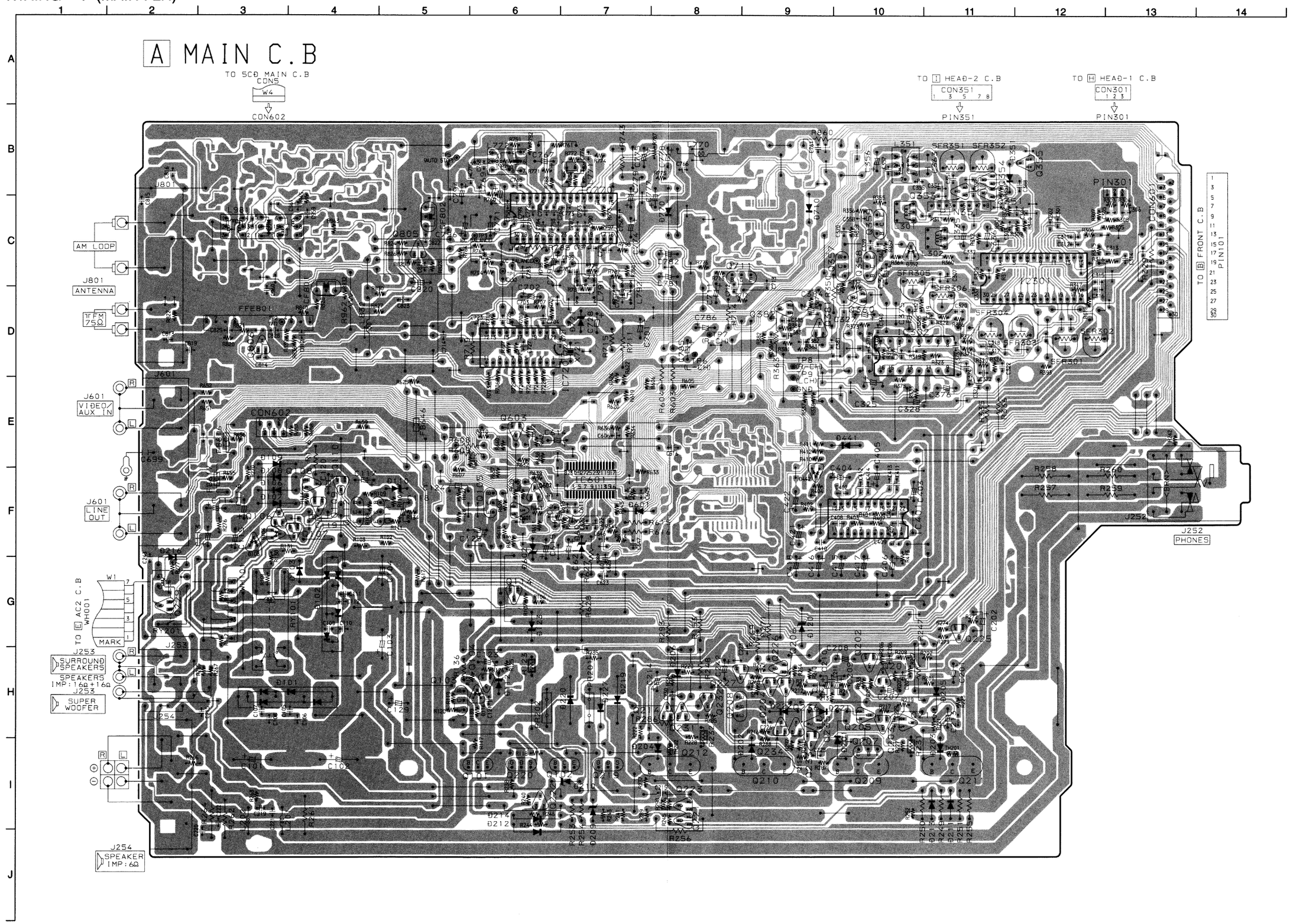


2SA1235F
2SC2714
2SC3052F
CMBT5551
CSA1362GR
CSD1306E

RN1410
RT1P144C
RT1N141C
RT1N144C
RT1P141C
DTA124EK
DTA143EK

BLOCK DIAGRAM – 1 (MAIN / FRONT)




A MAIN C.B
TO SCD MAIN C.B
CON5
W4
CON602
TO I HEAD-2 C.B
CON351
1 3 5 7 8
PIN351
TO H HEAD-1 C.B
CON301
1 2 3
PIN301
TO B FRONT C.B
PIN101
AM LOOP
J801
ANTENNA
1F FM 75Ω
J601
VIDEO/AUX IN
J601
LINE OUT
J252
PHONES
W1
TO E AC2 C.B
WH001
MARK
J253
SURROUND SPEAKERS
SPEAKERS
IMP: 16Ω+16Ω
J253
SUPER WOOFER
J254
J254
SPEAKER
IMP: 6Ω
IC601
Q210
Q209
Q211
Q212
Q234
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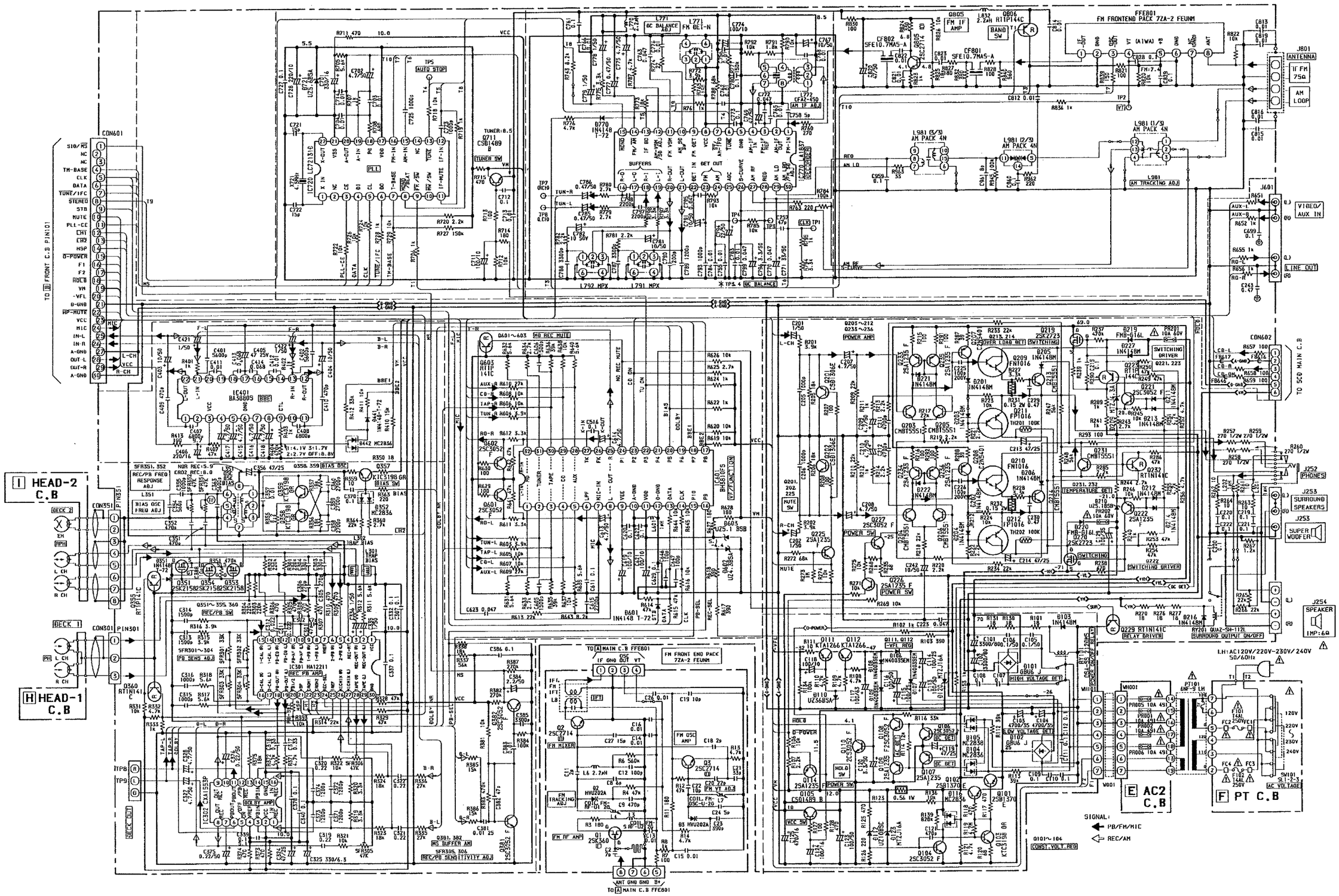
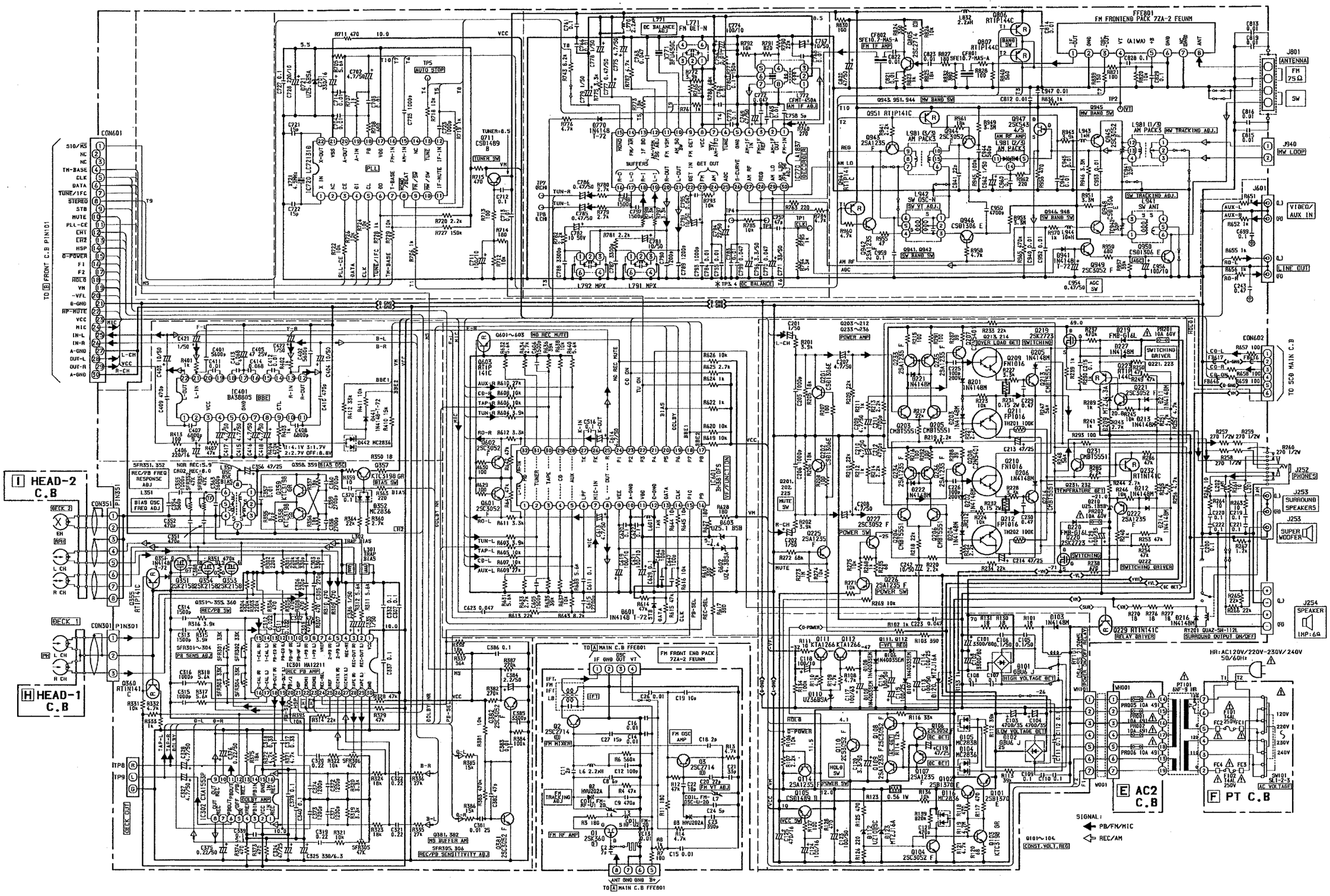
Q1000

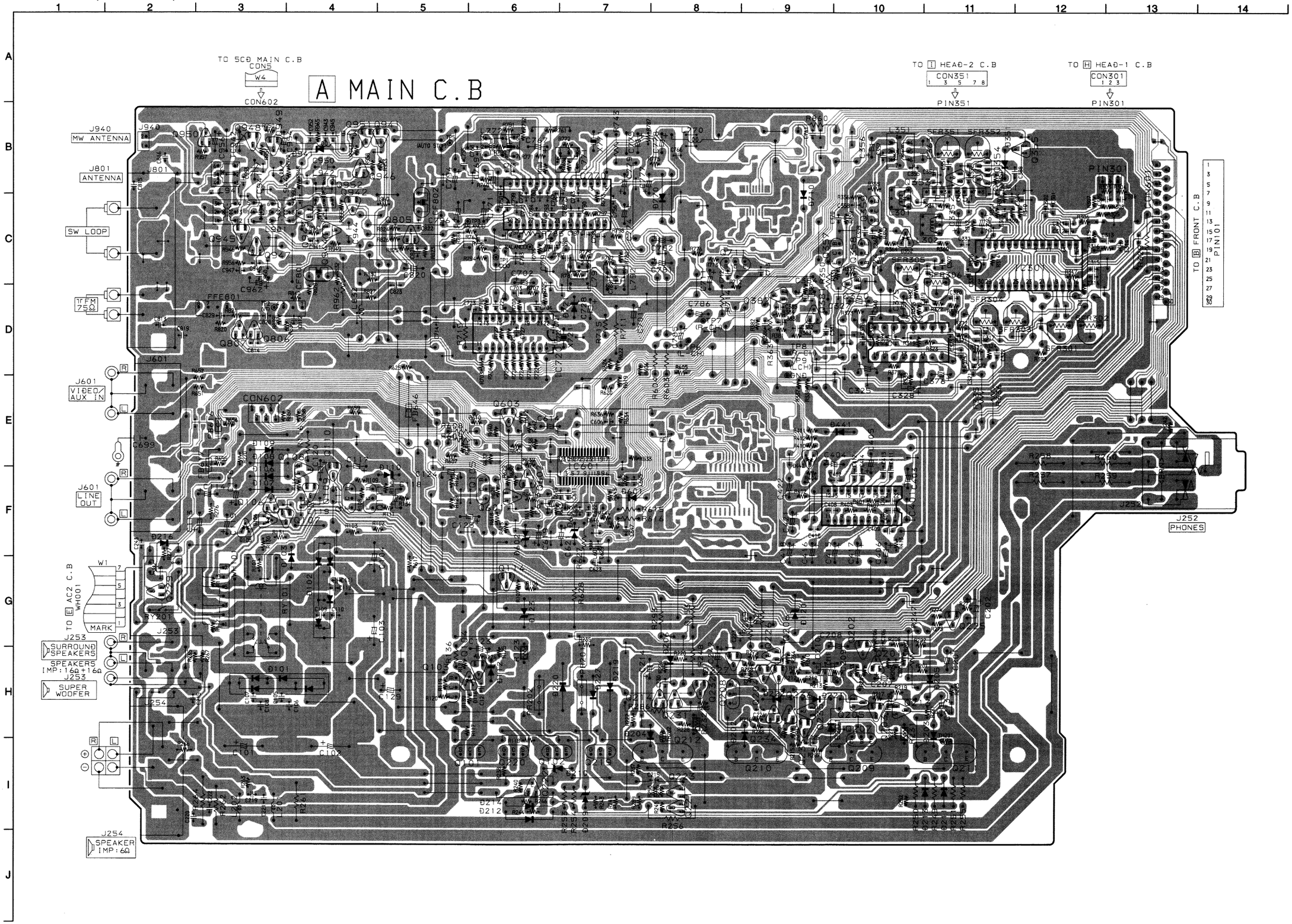
SCHEMATIC DIAGRAM – 1 (MAIN : LH)


CON601
TO B FRONT C.B P.IN101
SIO/MS
NC
NC
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
CH1
CH2
HSP
B-POWER
F1
F2
RDCB
VM
-VFL
B-GND
RP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
L-CH
VCC
R-CH
IC701 LC72131E
PLL
TUNER:8.5
TUNER SW
TPS
AUTO STOP
L771
FM RF IN
L772
CFA2-450
AM IF ADJ
IC770 LA1837
BUFFERS
L792 MPX
L791 MPX
TPS 4 DC BALANCE
FFE801
FM FRONTEND PACK 72A-2 FEUNM
Q805
FM IF AMP
Q806
BAND SW
CF802 SFE10.7MA5-A
CF801 SFE10.7MA5-A
L981 (1/3)
AM PACK 4N
L981 (2/3)
AM PACK 4N
L981 (3/3)
AM PACK 4N
L981
AM TRACKING ADJ
J801
ANTENNA
IF FM 75Ω
AM LOOP
J601
VIDEO/ AUX IN
LINE OUT
CON602
TO SCD MAIN C.B
IC401 BA3880S
BBE
IC301 HA12211
REC PB AMP
IC302 CXA1555P
DOLBY NR
Q602 2SC3052 F
Q601 2SC3052 F
Q603 RITP 141C
IC601 BH5810FS
VFZ FUNCTION
Q201~212 Q255~256
POWER AMP
Q203 CMB1555S
Q205 CMB1555S
Q207 2SA1235 F
Q208 2SC3052 F
Q209 FN1016
Q210 FN1016
Q211 2SA1235 F
Q212 FP1016
Q219 2SK2723
SWITCHING
Q221 2SC3052 F
Q222 2SA1235 F
Q227 2SC3052 F
POWER SW
Q229 RT1N141C
RELAY DRIVER
Q231 CMB1555S
Q232 RT1N141C
TEMPERATURE DET
Q270 2SK2723
SWITCHING
Q271 2SA1235 F
POWER SW
Q101 2SB1370 E
Q102 2SA1235 F
Q103 2SC3052 F
Q104 2SC3052 F
Q105 CS0148B R
Q107 2SA1235 F
Q110 2SC3052 F
Q111 KTA1266
Q112 KTA1266
Q114 2SA1235 F
Q116 2SC3052 F
Q117 2SC3052 F
Q118 2SC3052 F
Q351 2SK2158
Q352 2SK2158
Q353 2SK2158
Q354 2SK2158
Q355 RT1P141C
Q360 RT1N141C
Q381, 382 2SC3052 F
Q401~403 RITP 141C
Q601 2SC3052 F
Q602 2SC3052 F
Q701~704 2SC3052 F
Q705 2SC3052 F
Q706 2SC3052 F
Q707 2SC3052 F
Q708 2SC3052 F
Q709 2SC3052 F
Q710 2SC3052 F
Q711 CSB1489 B
Q712 2SC3052 F
Q713 2SC3052 F
Q714 2SC3052 F
Q715 2SC3052 F
Q716 2SC3052 F
Q717 2SC3052 F
Q718 2SC3052 F
Q719 2SC3052 F
Q720 2SC3052 F
Q721 2SC3052 F
Q722 2SC3052 F
Q723 2SC3052 F
Q724 2SC3052 F

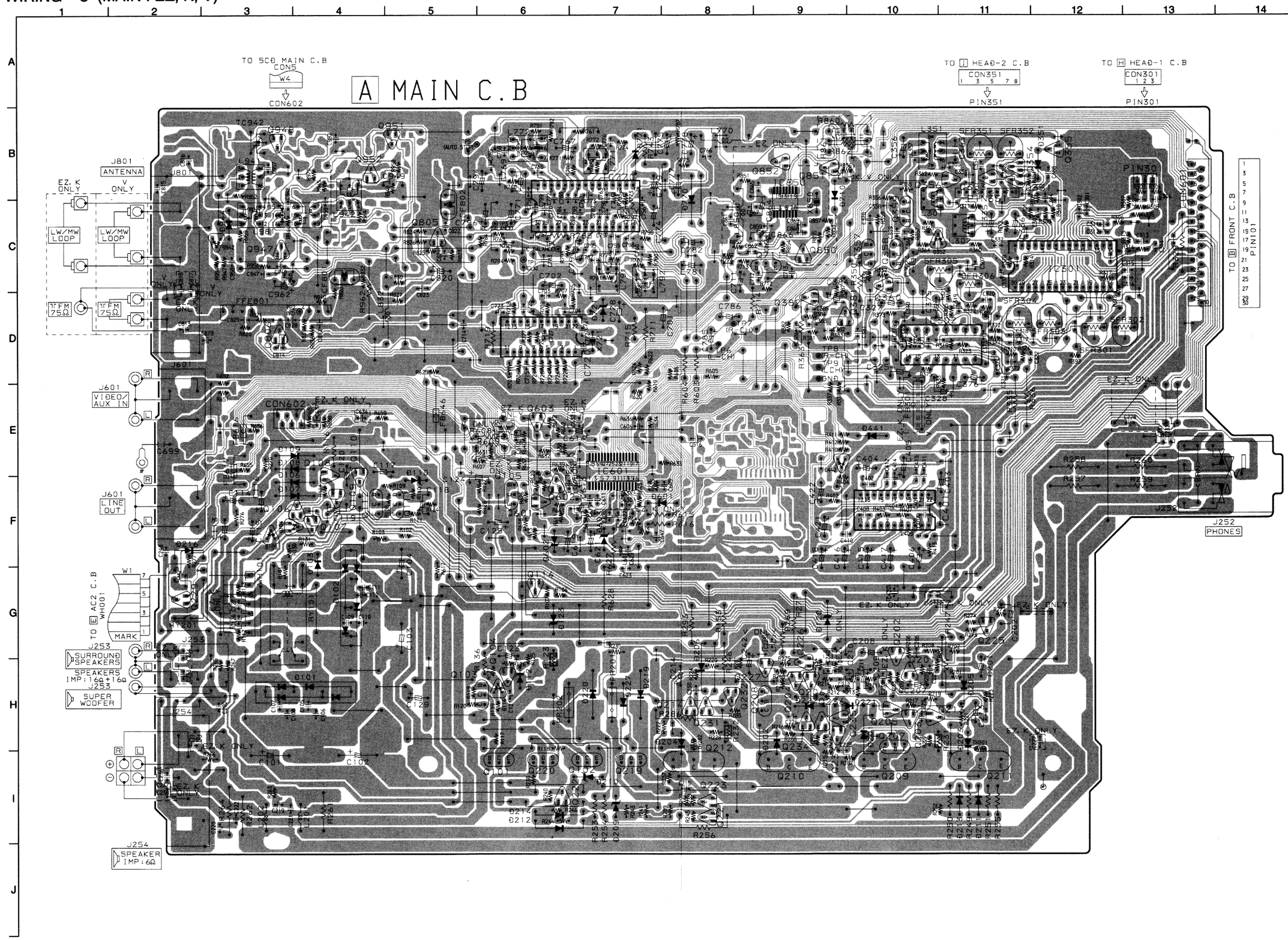
SCHEMATIC DIAGRAM – 2 (MAIN : HR)


CON601
TO B FRONT C.B P1N101
SIG/RS
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
CNT
CRZ
HSP
B-POWER
F1
F2
RGLB
VH
-VFL
B-GND
RP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
L-CH
VCC
R-CH
IC720 LC72131G
IC401 BA3880S
IC301 HA12211
IC302 CXA1155P
IC771 BF1450C
IC770 LA1837
IC601 BH3501FS
Q603 RT1P141C
Q602 2SC5052 F
Q601 2SC5052 F
Q604 RT1P141C
Q605 RT1P144C
Q806 RT1P144C
Q807 RT1P144C
Q951 RT1P141C
Q944 2SC3052
Q945 2SA1235 F
Q947 2SC5343 A/S
Q946 CSB1306 E
Q950 CSB1306 E
Q949 2SC5052 F
Q942 2SA1235 F
Q941 CSB1306 E
Q944 CSB1306 E
Q945 CSB1306 E
Q947 2SC5343 A/S
Q948

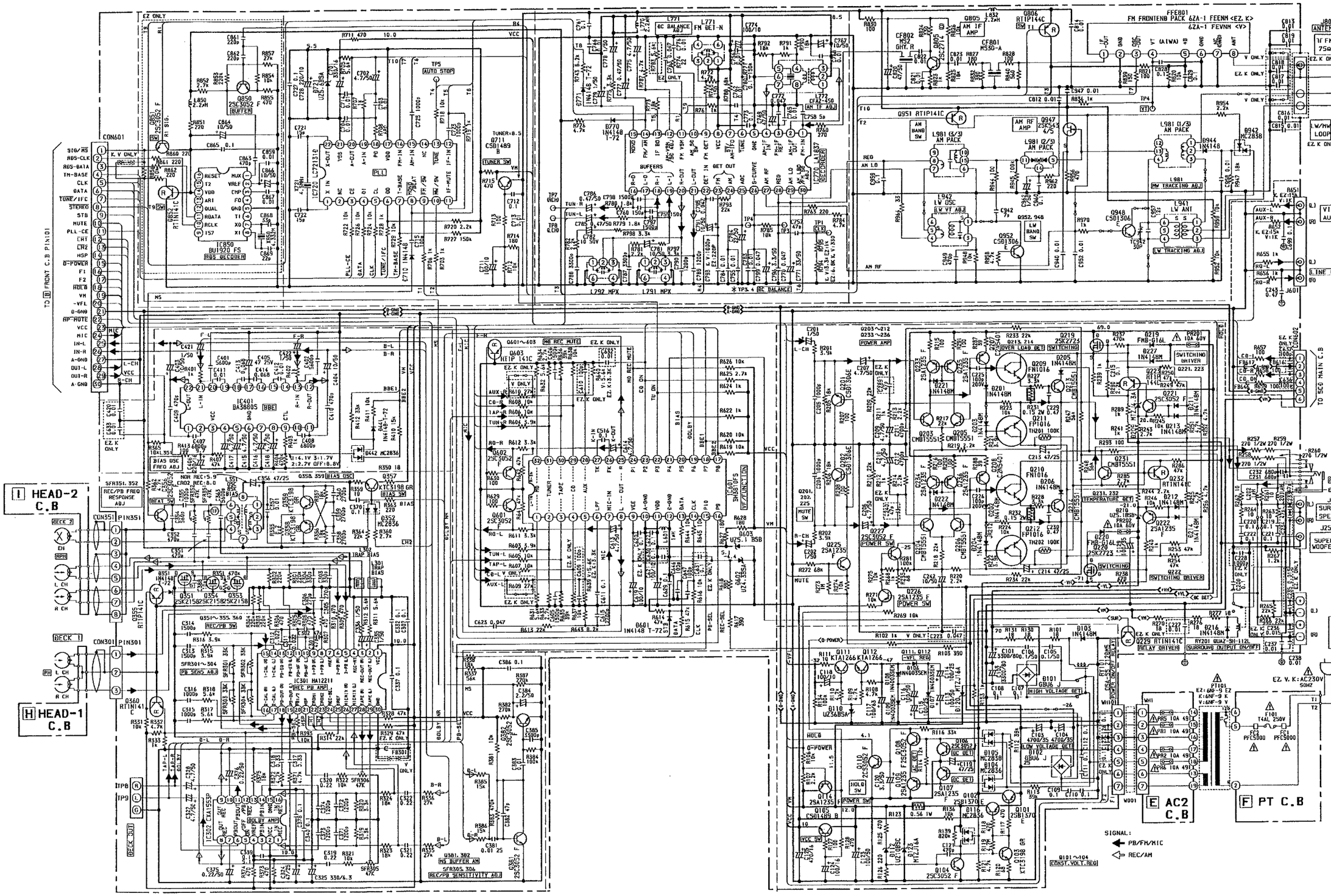
WIRING – 2 (MAIN : HR)

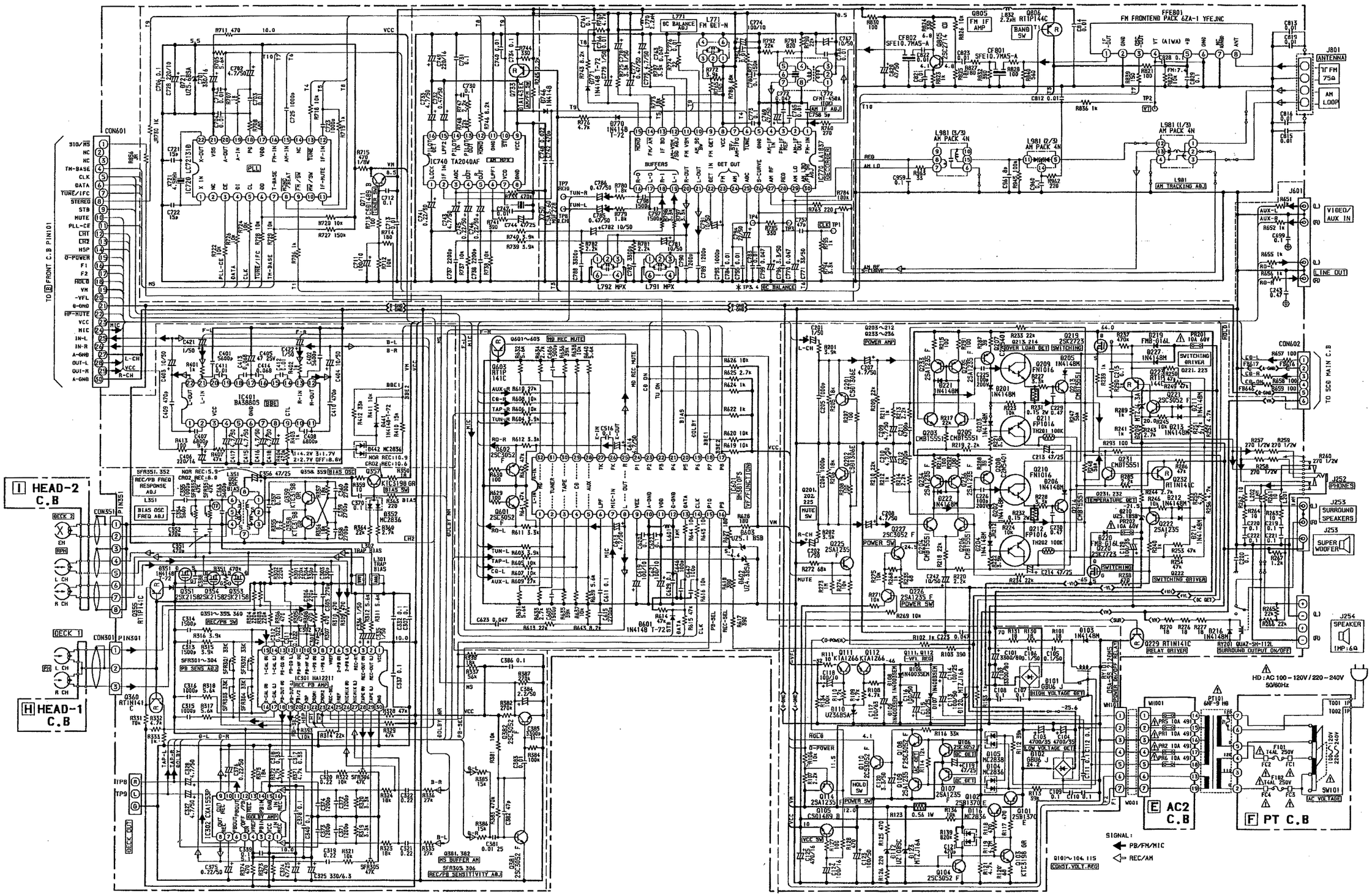


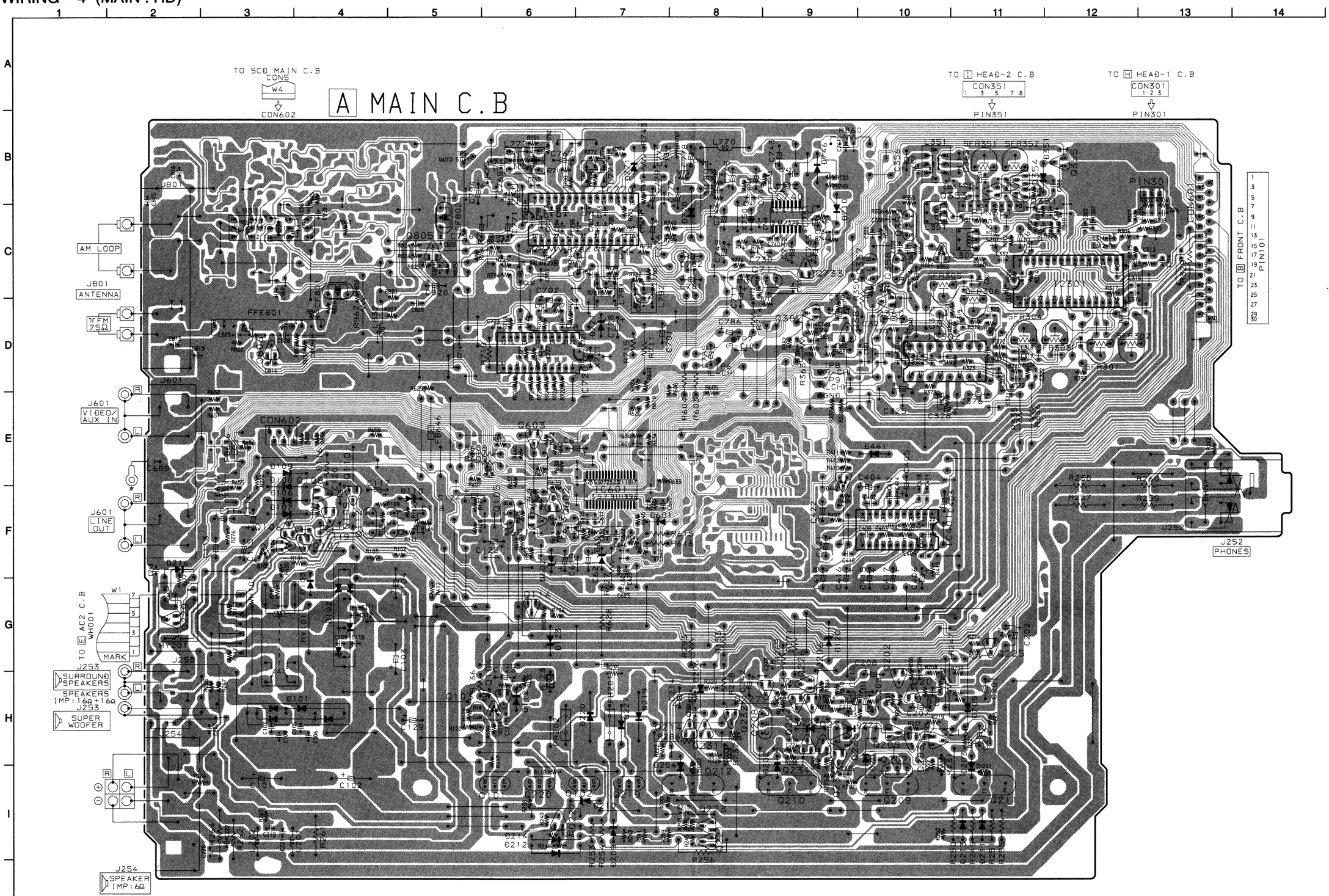
WIRING – 3 (MAIN : EZ, K, V)



SCHEMATIC DIAGRAM – 3 (MAIN : EZ, K, V)




CON601
TO FRONT C.B PIN101
SIG/HS
NC
NC
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
CH1
CH2
HSP
O-POWER
F1
F2
ADCO
VM
-VFL
B-GND
HP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
L-CH
R-CH
IC720 LC72131B
PLL
IC740 TA2040AF
AM-MPX
IC770 LA1837
DECORDER
L792 MPX
L791 MPX
BC BALANCE
FFE801
FM FRONTEND PACK 6ZA-1 YFEJNC
J801
ANTENNA
1F FM 75Ω
AM LOOP
J601
VIDEO/ AUX IN
LINE OUT
CON602
TO SCR MAIN C.B
L981 (1/3) AM PACK 4N
L981 (2/3) AM PACK 4N
L981 (3/3) AM PACK 4N
L981 AM TRACKING ADJ
Q805 FM IF AMP
Q806 BAND SW
IC1401 BA3880S
BBE
IC302 CXA1155P
IC301 HA12211
REC PB AMP
Q601~603 MD REC MUTE
Q201 202 225 MUTE SW
Q225 2SA1235 F POWER SW
Q224 2SA1235 F POWER SW
Q227 2SC3052 F POWER SW
Q231 CMBT5551 TEMPERATURE DET
Q229 RTI114C RELAY DRIVER
Q231, 232 TEMPERATURE DET
Q101~104, 115 CONST.VOLT.REG
HOLD SW
POWER SW
VCC SW
MUTE
SWITCHING DRIVER
SWITCHING
LOW VOLTAGE DET
HIGH VOLTAGE DET
J252 PHONES
J253 SURROUND SPEAKERS
J253 SUPER WOOFER
J254 SPEAKER IMP:6Ω
SURROUND OUTPUT ON/OFF
I HEAD-2 C.B
H HEAD-1 C.B
E AC2 C.B
F PT C.B
DECK 2
DECK 1
CON351
CON301
SIGNAL:
PB/FM/MIC
REC/AM
HD : AC 100 – 120V / 220 – 240V
50/60Hz


A MAIN C.B
TO 5CØ MAIN C.B
CON5
W4
CON602
TO I HEAÐ-2 C.B
CON351
1 3 5 7 8
PIN351
TO H HEAÐ-1 C.B
CON301
1 2 3
PIN301
TO B FRONT C.B
PIN101
PIN30
AM LOOP
J801
ANTENNA
TFM 75Ω
J601
VIDEO/ AUX IN
J601
LINE OUT
J252
PHONES
TO E AC2 C.B
WH001
W1
MARK
J253
SURROUND SPEAKERS
SPEAKERS IMP:16Ω+16Ω
J253
SUPER WOOFER
J254
SPEAKER IMP:6Ω
CON602
IC601
IC751
IC301
Q603
Q210
Q209
Q212
Q220
Q101
Q102
Q103
Q104
Q105
Q106
Q107
Q108
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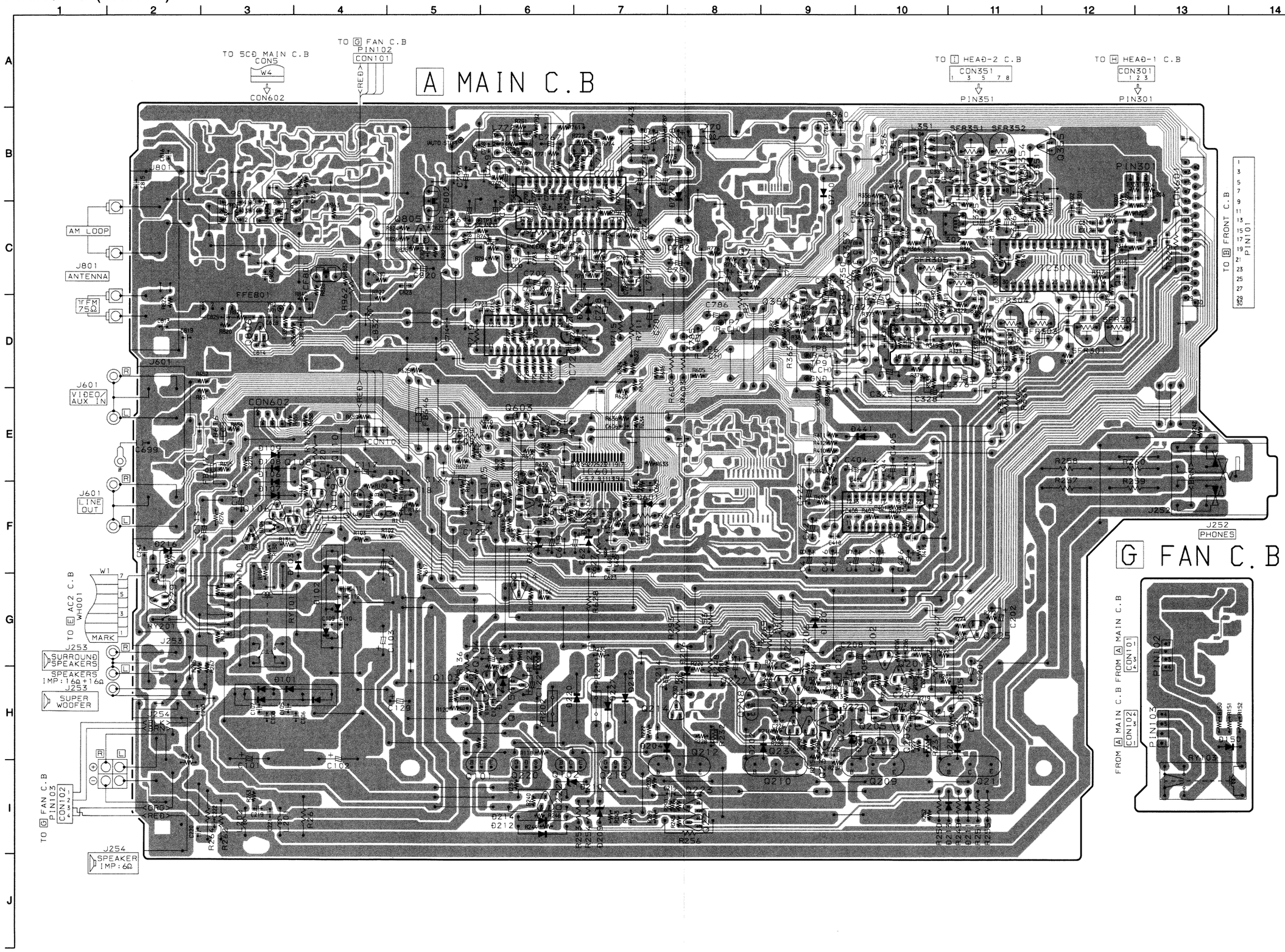
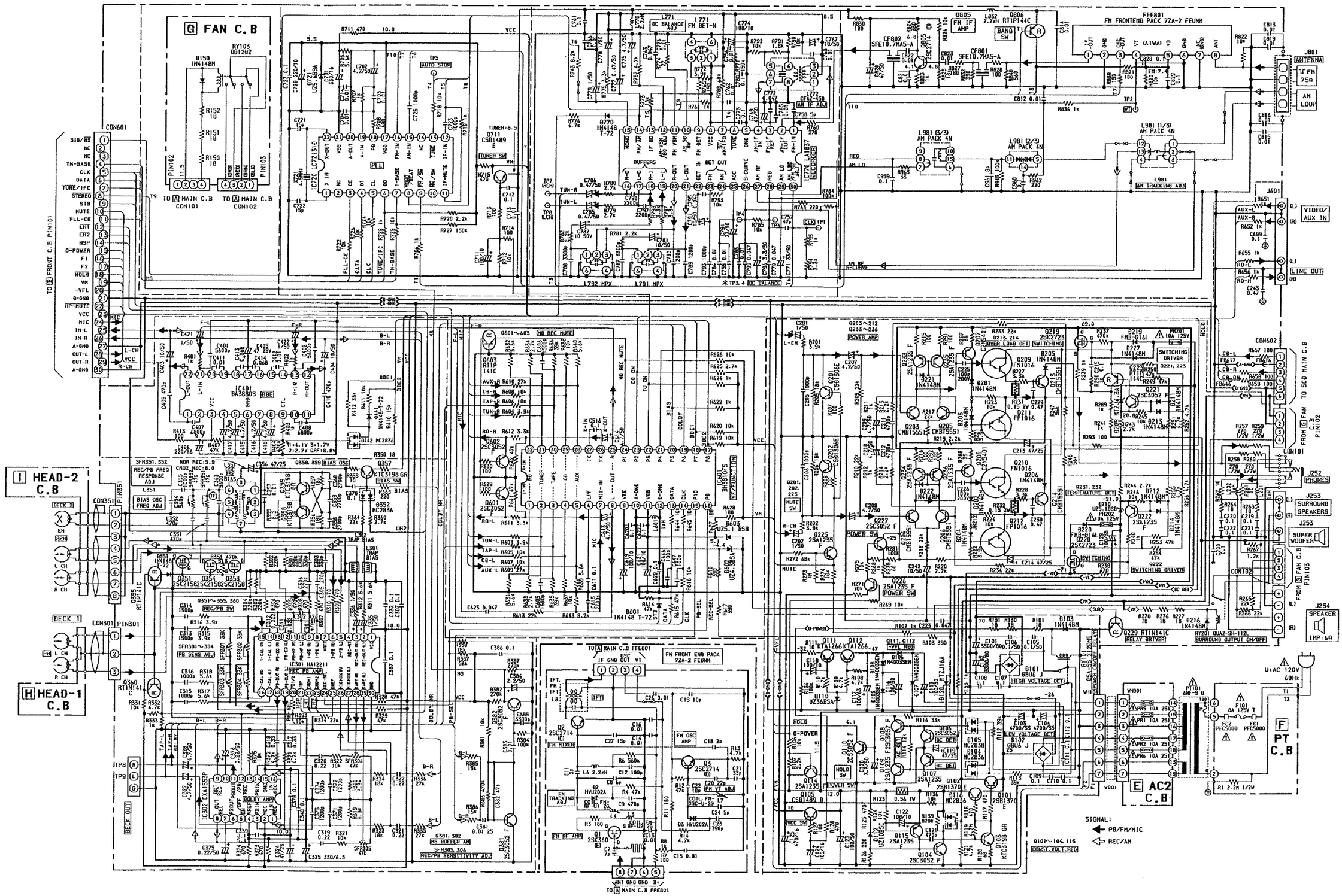
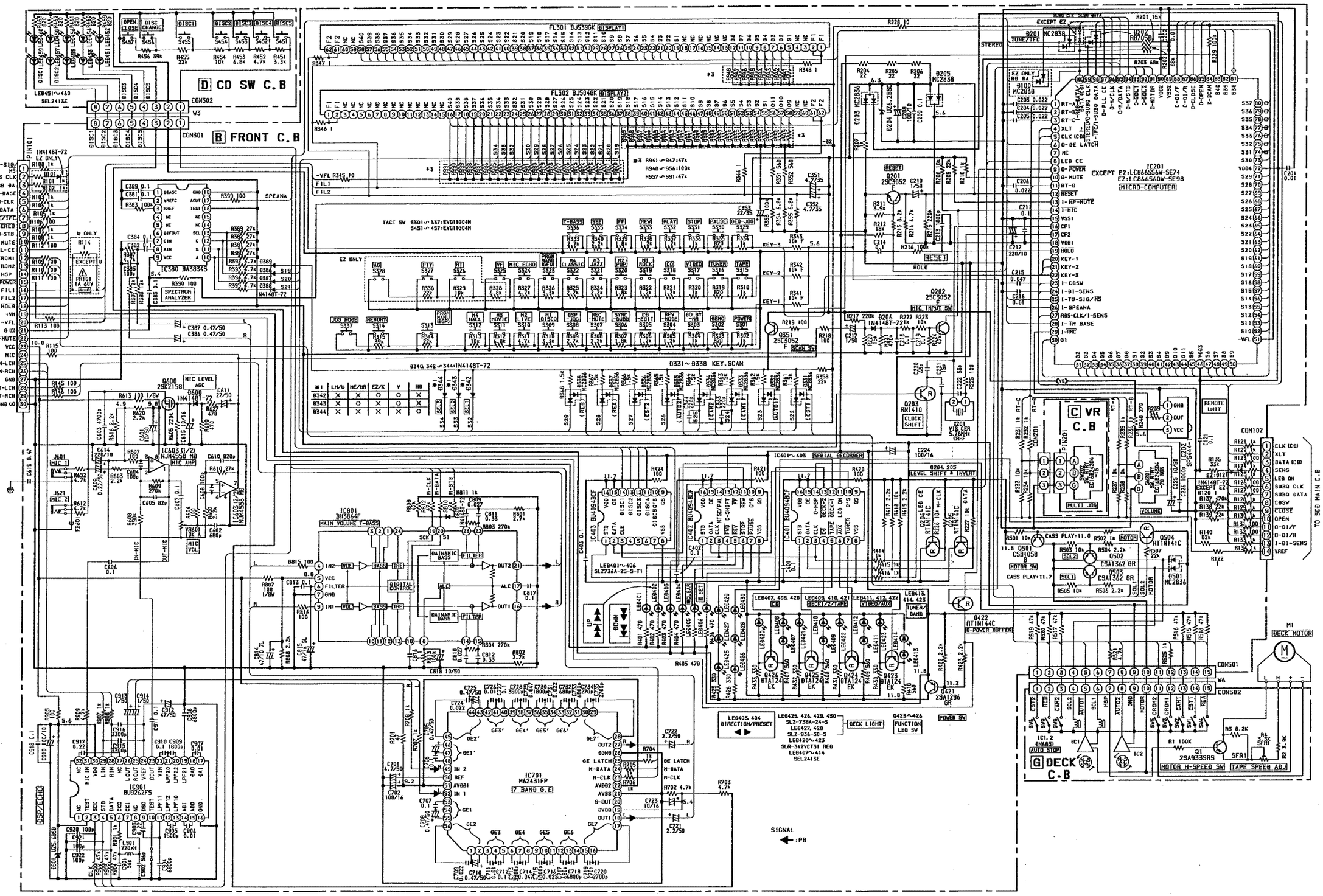
WIRING – 5 (MAIN : U)

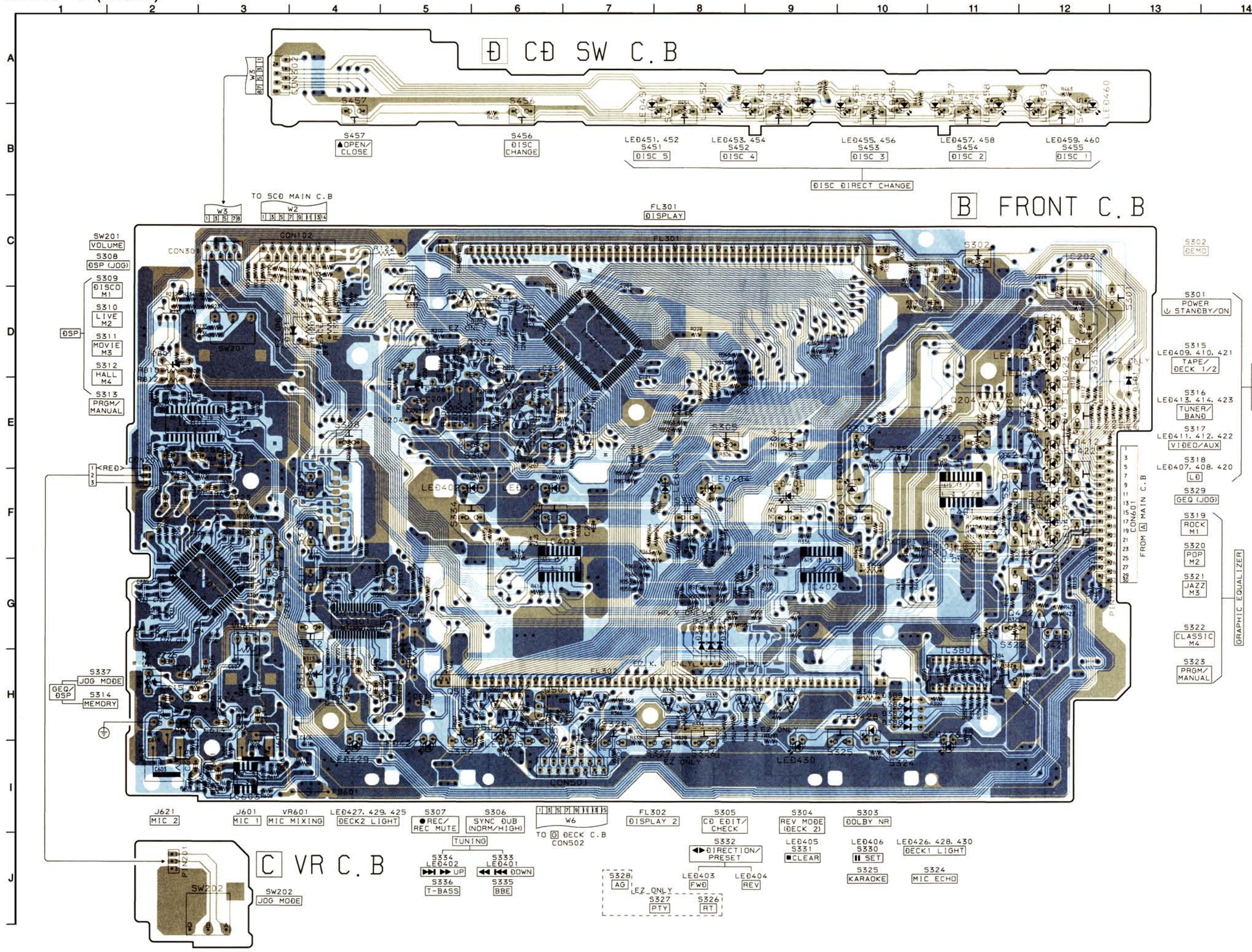


SCHEMATIC DIAGRAM – 5 (MAIN : U)



SCHEMATIC DIAGRAM – 6 (FRONT)




Đ CĐ SW C.B
S457 ▲OPEN/CLOSE
S456 DISC CHANGE
LEĐ451. 452 S451 DISC 5
LEĐ453. 454 S452 DISC 4
LEĐ455. 456 S453 DISC 3
LEĐ457. 458 S454 DISC 2
LEĐ459. 460 S455 DISC 1
DISC ĐIRECT CHANGE
B FRONT C.B
TO SCĐ MAIN C.B
FL301 ĐISPLAY
SW201 VOLUME
S308 ĐSP (JOG)
S309 ĐISCO M1
S310 LIVE M2
S311 MOVIE M3
S312 HALL M4
S313 PRGM/MANUAL
ĐSP
S337 JOG MOĐE
GEQ/ĐSP
S314 MEMORY
S302 ĐEMO
S301 POWER ⏻ STANĐBY/ON
S315 LEĐ409. 410. 421 TAPE/ĐECK 1/2
S316 LEĐ413. 414. 423 TUNER/BANĐ
S317 LEĐ411. 412. 422 VIĐEĐ/AUX
S318 LEĐ407. 408. 420 LĐ
S329 GEQ (JOG)
S319 ROCK M1
S320 POP M2
S321 JAZZ M3
S322 CLASSIC M4
S323 PRGM/MANUAL
GRAPHIC EQUALIZER
FUNCTION
FROM A MAIN C.B CON601
J621 MIC 2
J601 MIC 1
VR601 MIC MIXING
LEĐ427. 429. 425 ĐECK2 LIGHT
S307 ●REC/REC MUTE
S306 SYNC ĐUB (NORM/HIGH)
TUNING
S334 LEĐ402 ⏭ ⏩ UP
S333 LEĐ401 ⏪ ⏮ ĐOWN
S336 T-BASS
S335 BBE
W6
TO G ĐECK C.B CON502
FL302 ĐISPLAY 2
S328 AG
EZ ONLY
S327 PTY
S326 RT
S305 CĐ EĐIT/CHECK
S332 ◀▶ĐIRECTION/PRESET
LEĐ403 FWĐ
LEĐ404 REV
S304 REV MOĐE (ĐECK 2)
LEĐ405 S331 ■CLEAR
S303 ĐOLBY NR
LEĐ406 S330 ⏸ SET
S325 KARAOKE
LEĐ426. 428. 430 ĐECK1 LIGHT
S324 MIC ECHO
C VR C.B
SW202 JOG MOĐE
CON202
CON302
CON501
CON502
FL301
IC202
IC380
IC402
IC403
Q204
Q380
Q402
Q403
Q404
Q405
Q406
Q407
Q408
Q409
Q410
Q411
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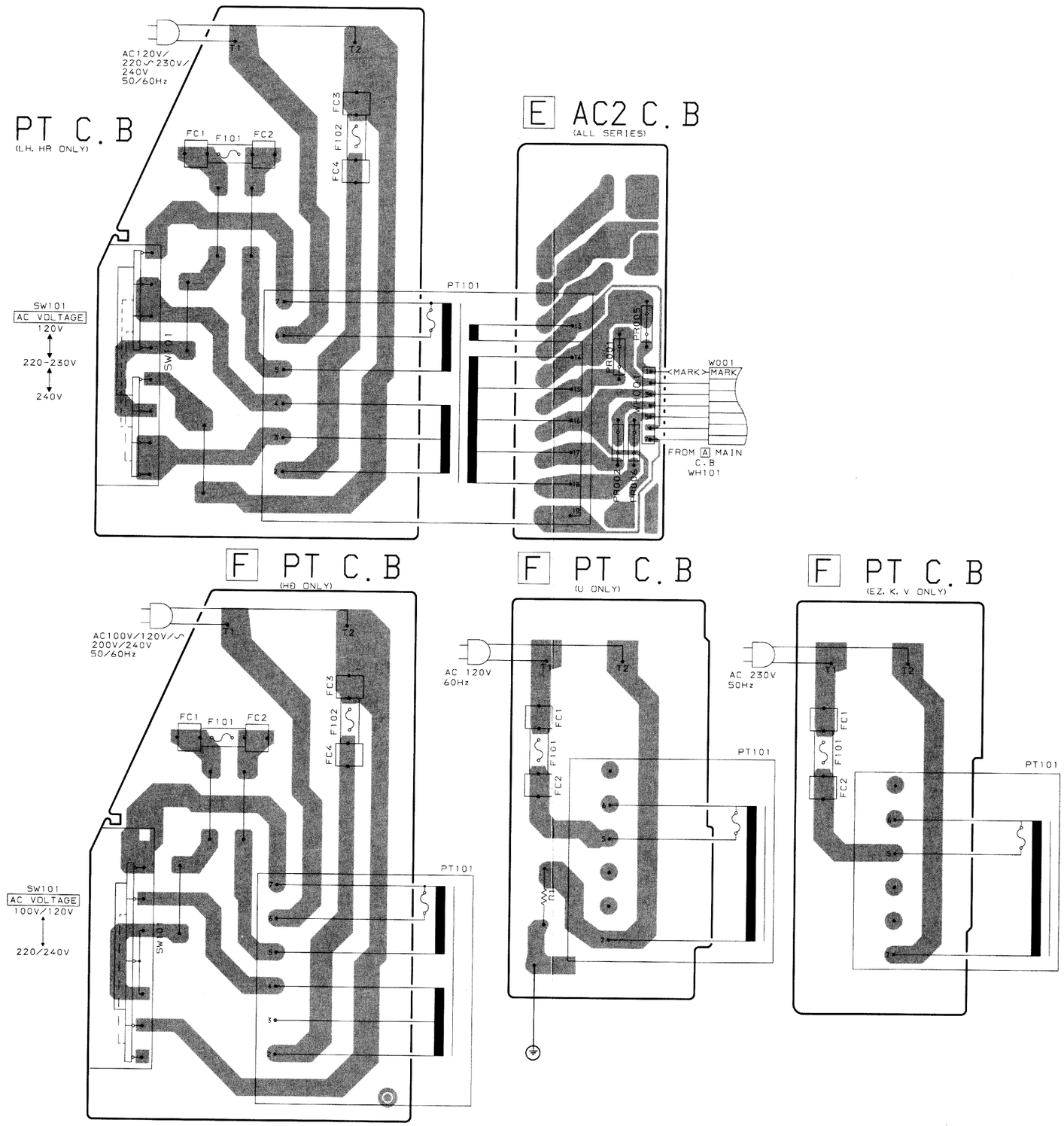
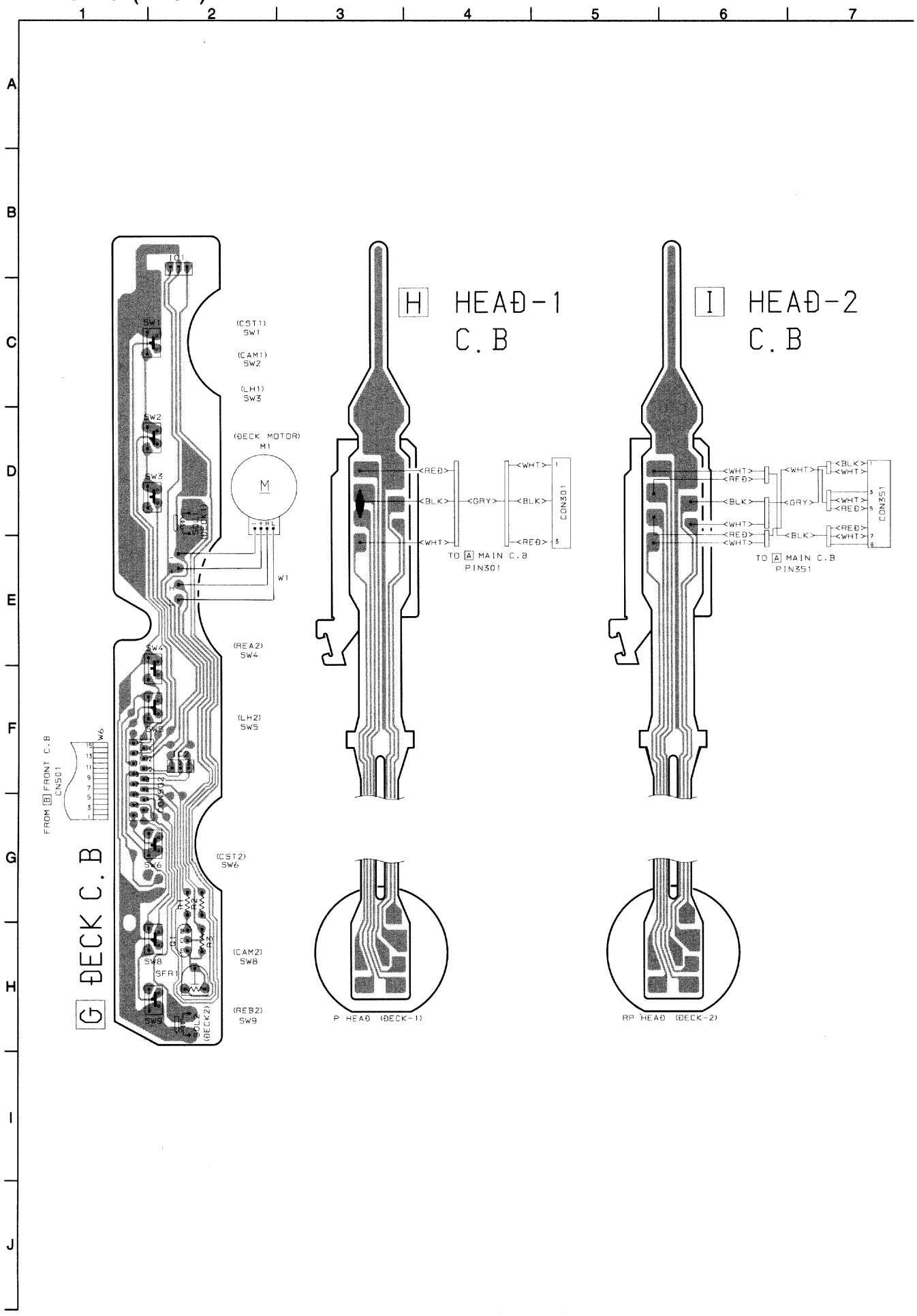
Q440
Q441


F PT C.B
(LH, HR ONLY)
AC120V/
220~230V/
240V
50/60Hz
T1
T2
FC1
F101
FC2
FC3
FC4
F102
SW101
AC VOLTAGE
120V
220-230V
240V
SW101
PT101
E AC2 C.B
(ALL SERIES)
PR005
PR001
PR004
PR002
PR003
WH001
W001
<MARK>
MARK
FROM A MAIN C.B WH101
F PT C.B
(HB ONLY)
AC100V/120V/~
200V/240V
50/60Hz
SW101
AC VOLTAGE
100V/120V
220/240V
F PT C.B
(U ONLY)
AC 120V
60Hz
R1
F PT C.B
(EZ, K, V ONLY)
AC 230V
50Hz

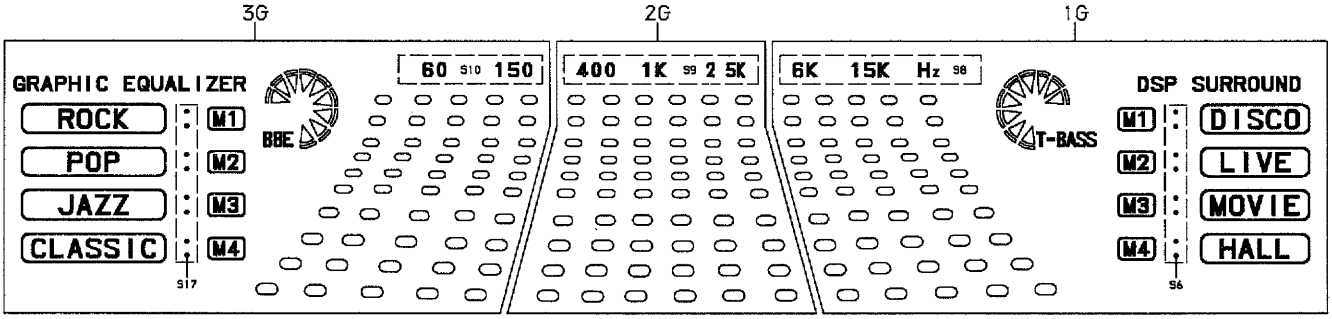
WIRING – 8 (DECK)



FL GRID ASSIGNMENT & ANODE CONNECTION

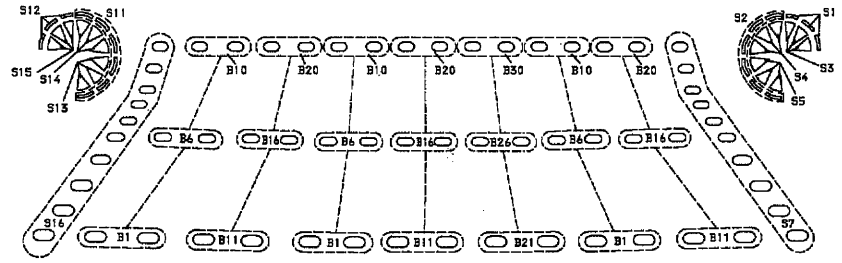
FL, BJ504GK

GRID ASSIGNMENT



BJ504GK
GRID ASSIGNMENT

SEGMENT DESIGNATION



(3G) (2G) (1G)

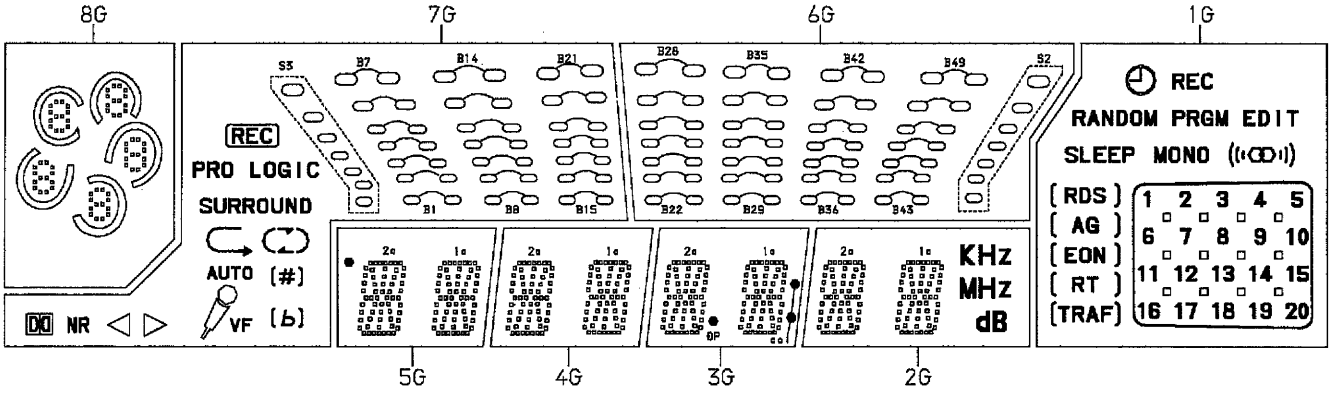
ANODE CONNECTION

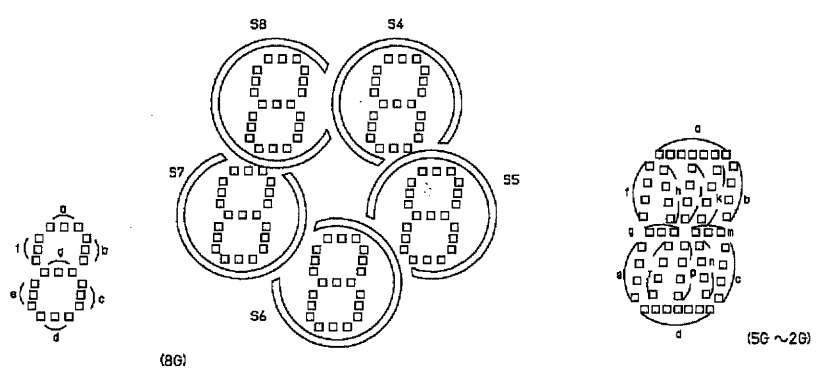
	3G	2G	1G
P1	GRAPHIC EQUALIZER	—	DSP SURROUND
P2	ROCK POP JAZZ CLASSIC	—	DISCO LIVE MOVIE HALL
P3	(ROCK)	—	(DISCO)
P4	(POP)	—	(LIVE)
P5	(JAZZ)	—	(MOVIE)
P6	(CLASSIC)	—	(HALL)
P7	S10	S9	S8
P8	M1 M3 M2 M4	—	M1 M3 M2 M4
P9	(M1)	—	(M1)
P10	(M2)	—	(M2)
P11	(M3)	B30	(M3)
P12	(M4)	B29	(M4)
P13	S11	B28	S1
P14	S12	B27	S2
P15	S13	B26	S3
P16	S14	B25	S4
P17	S15	B24	S5
P18	BBE	B23	T-BASS
P19	S16	B22	S7
P20	S17	B21	S8

	3G	2G	1G
P21	B20	B20	B20
P22	B19	B19	B19
P23	B18	B18	B18
P24	B17	B17	B17
P25	B16	B16	B16
P26	B15	B15	B15
P27	B14	B14	B14
P28	B13	B13	B13
P29	B12	B12	B12
P30	B11	B11	B11
P31	B10	B10	B10
P32	B9	B9	B9
P33	B8	B8	B8
P34	B7	B7	B7
P35	B6	B6	B6
P36	B5	B5	B5
P37	B4	B4	B4
P38	B3	B3	B3
P39	B2	B2	B2
P40	B1	B1	B1

FL, BJ539GK

GRID ASSIGNMENT





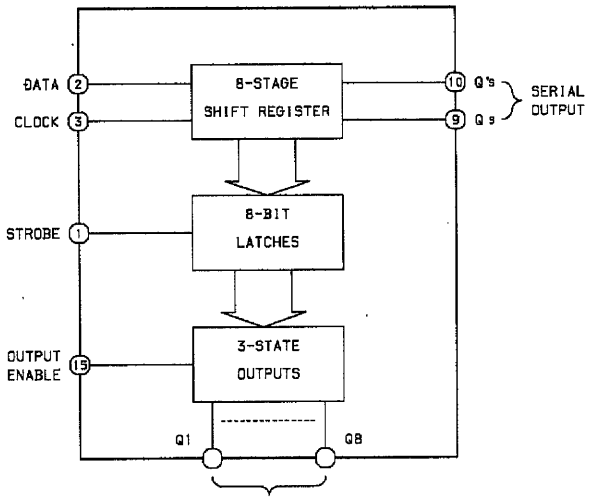
ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P1	5a	—	—	—	—	—	—	REC
P2	5b	DO	—	—	—	—	—	◴
P3	5f	NR	—	—	—	—	—	EDIT
P4	5g	◁	—	—	—	—	—	AI
P5	5c	▷	—	—	—	—	—	PRGM
P6	5e	VF	—	—	—	—	—	MONO
P7	5d	REC	—	—	—	—	—	RANDOM
P8	S8	S3	S2	—	—	—	—	SLEEP
P9	S6	)	—	○	—	—	—	((◎))
P10	3d	⇄	—	2a	2a	2a	2a	RDS
P11	3e	(	—	2h	2h	2h	2h	(RDS)
P12	3c	↪	—	2j	2j	2j	2j	AG
P13	3g	(#)	B22	2k	2k	2k	2k	(AG)
P14	3f	B1	B29	2f	2f	2f	2f	EON
P15	3b	B8	B36	2b	2b	2b	2b	(EON)
P16	3a	B15	B43	2m	2m	2m	2m	RT
P17	S5	#	B23	2g	2g	2g	2g	(RT)
P18	2d	B2	B30	2c	2c	2c	2c	TRAF
P19	2e	B9	B37	2e	2e	2e	2e	(TRAF)
P20	2c	B16	B44	2r	2r	2r	2r	1

	8G	7G	6G	5G	4G	3G	2G	1G
P21	2g	AUTO	B24	2p	2p	2p	2p	2
P22	2f	B3	B31	2n	2n	2n	2n	3
P23	2b	B10	B38	2d	2d	2d	2d	4
P24	2a	B17	B45	—	—	col (up)	KHz	5
P25	S7	SURROUND	B25	—	—	col (down)	MHz	6
P26	4d	B4	B32	—	—	ÐP	dB	7
P27	4e	B11	B39	1a	1a	1a	1a	8
P28	4c	B18	B46	1h	1h	1h	1h	9
P29	4g	PRO LOGIC	B26	1j	1j	1j	1j	10
P30	4f	B5	B33	1k	1k	1k	1k	11
P31	4b	B12	B40	1f	1f	1f	1f	12
P32	4a	B19	B47	1b	1b	1b	1b	13
P33	S4	(♭)	B27	1m	1m	1m	1m	14
P34	1d	B6	B34	1g	1g	1g	1g	15
P35	1e	B13	B41	1c	1c	1c	1c	16
P36	1c	B20	B48	1e	1e	1e	1e	17
P37	1g	♭	B28	1r	1r	1r	1r	18
P38	1f	B7	B35	1p	1p	1p	1p	19
P39	1b	B14	B42	1n	1n	1n	1n	20
P40	1a	B21	B49	1d	1d	1d	1d	S1

IC BLOCK DIAGRAM

IC, BU4094BCF



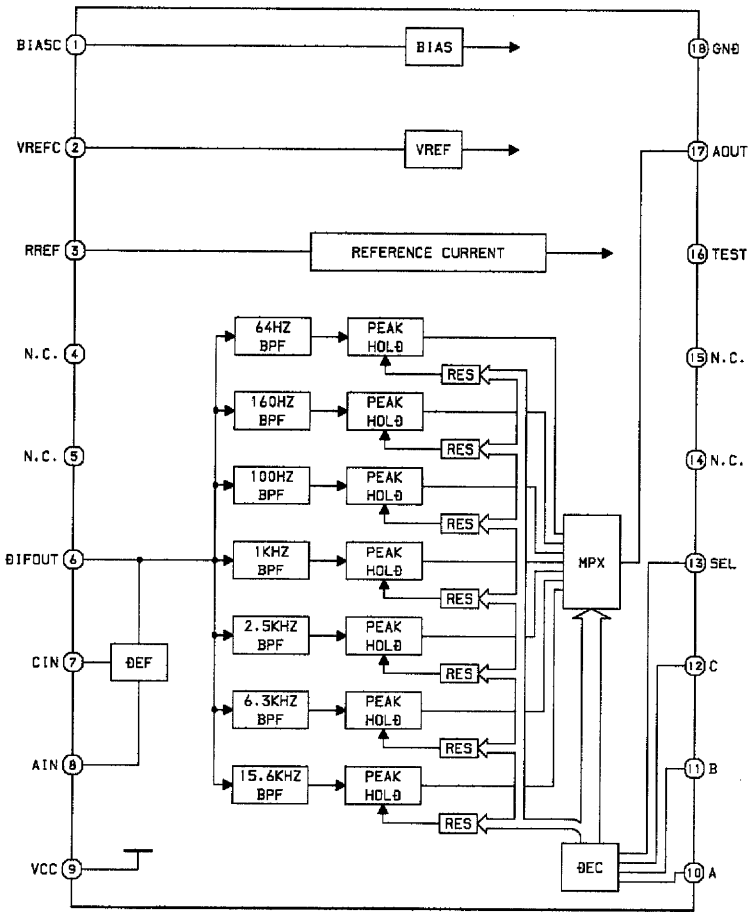
TRUTH TABLE

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

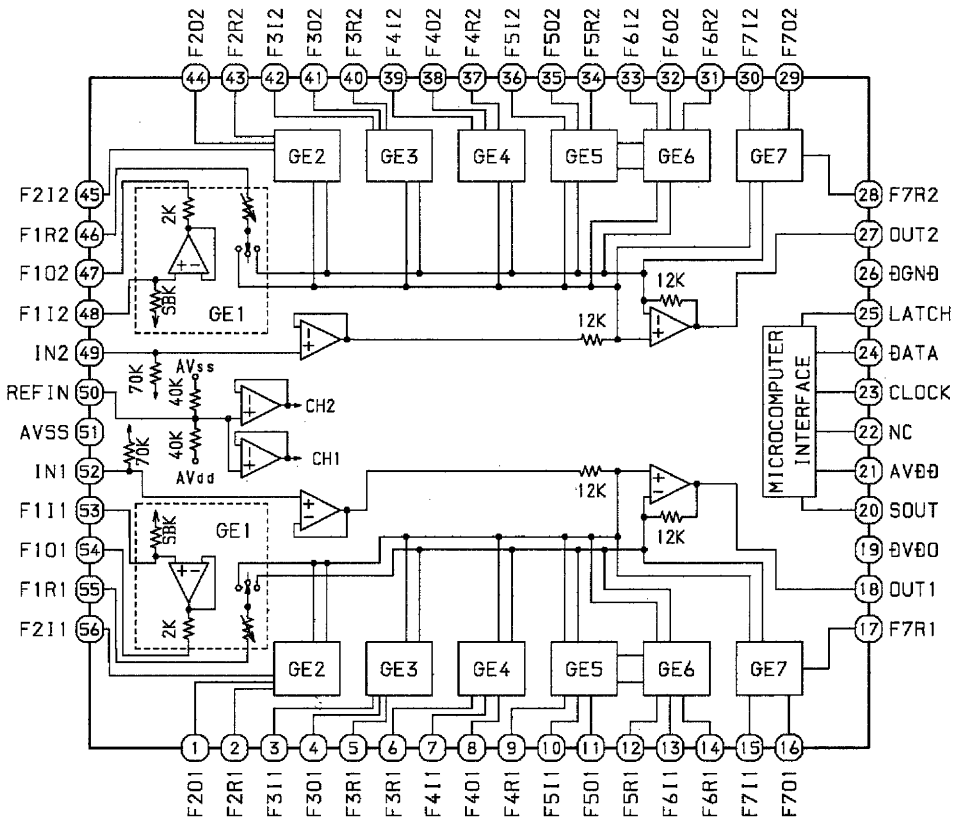
Z=High Impedance

X=Don't Care

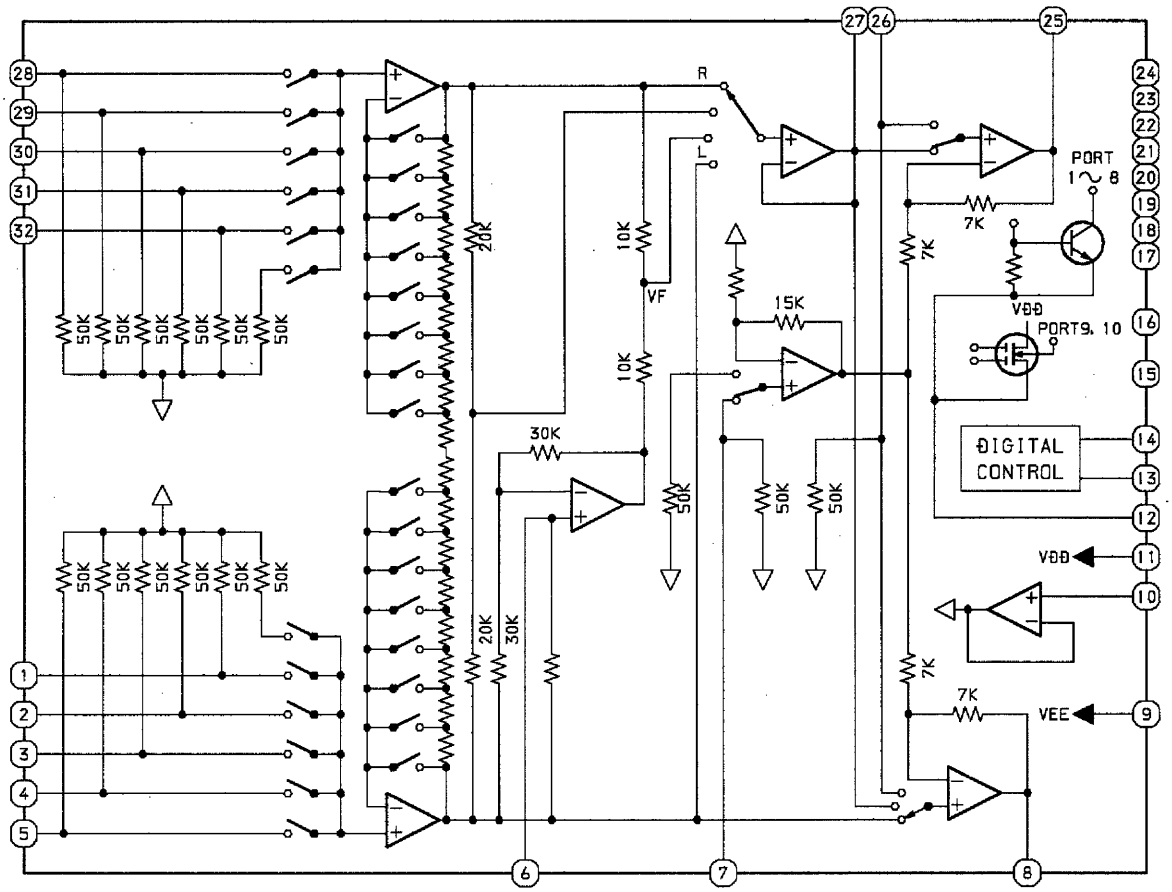
IC, BA3834S



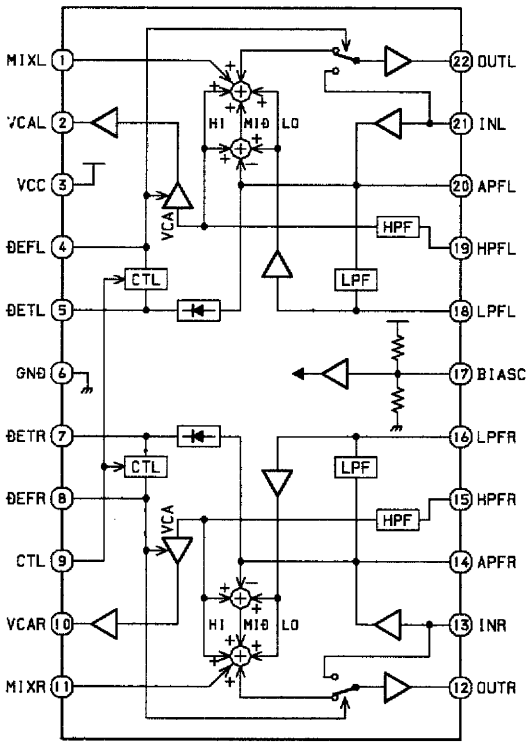
IC, M62431FP



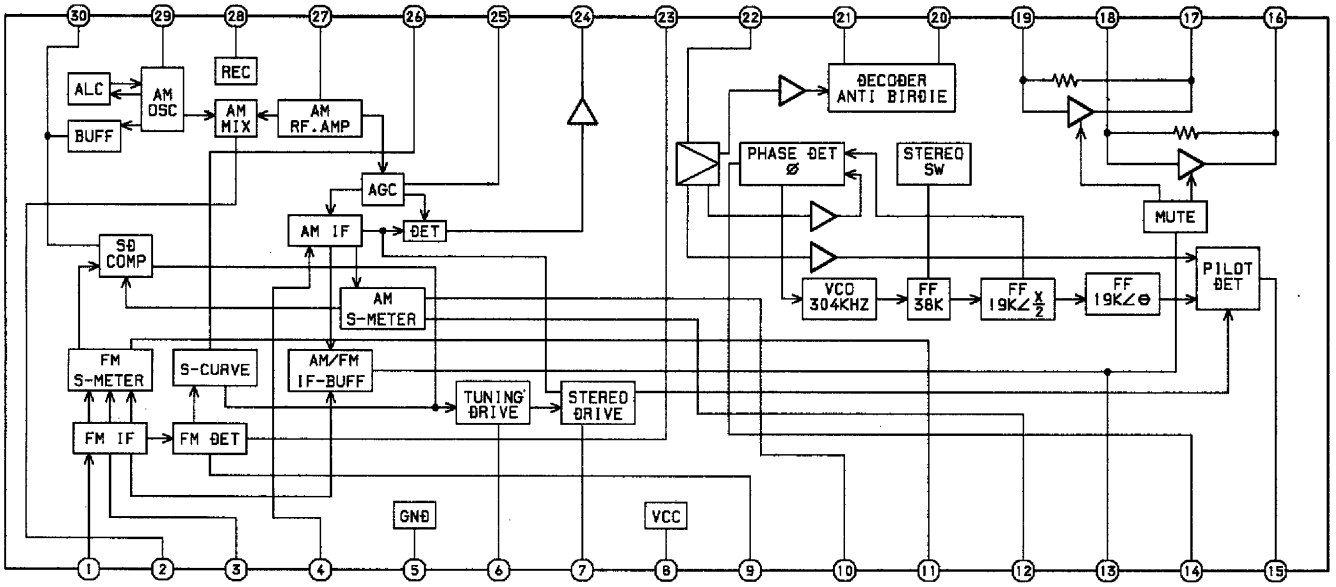
IC, BH3810FS



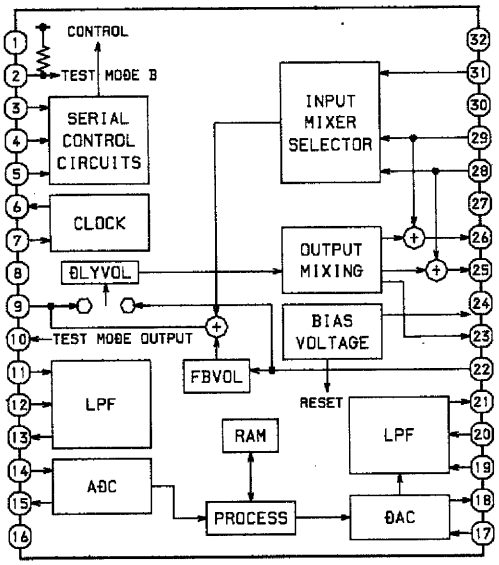
IC, BA3880S



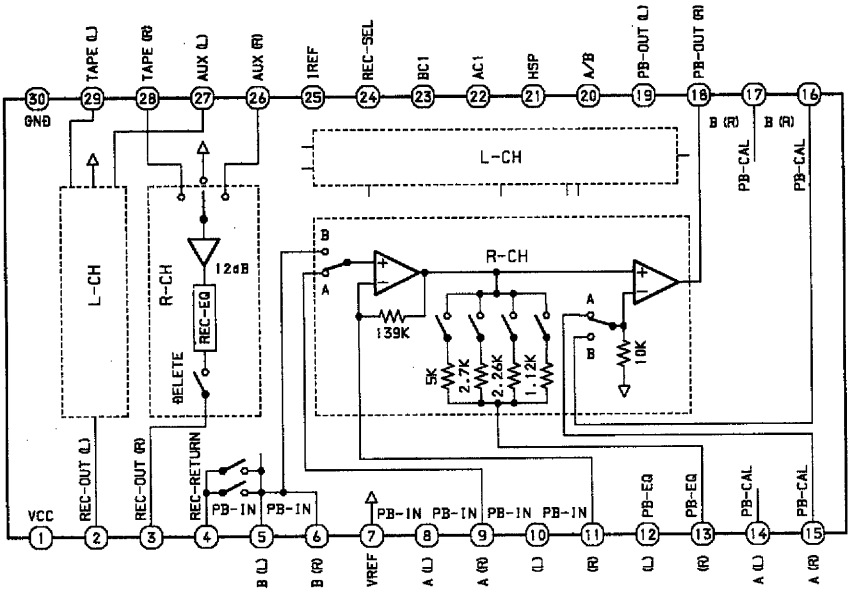
IC, LA1837



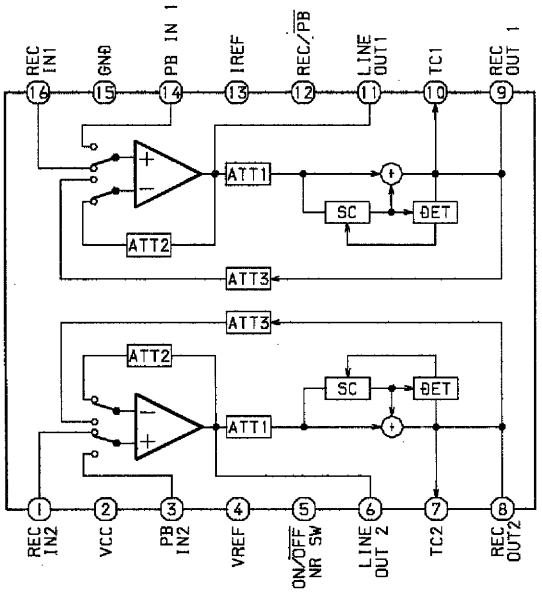
IC, BU9262AFS



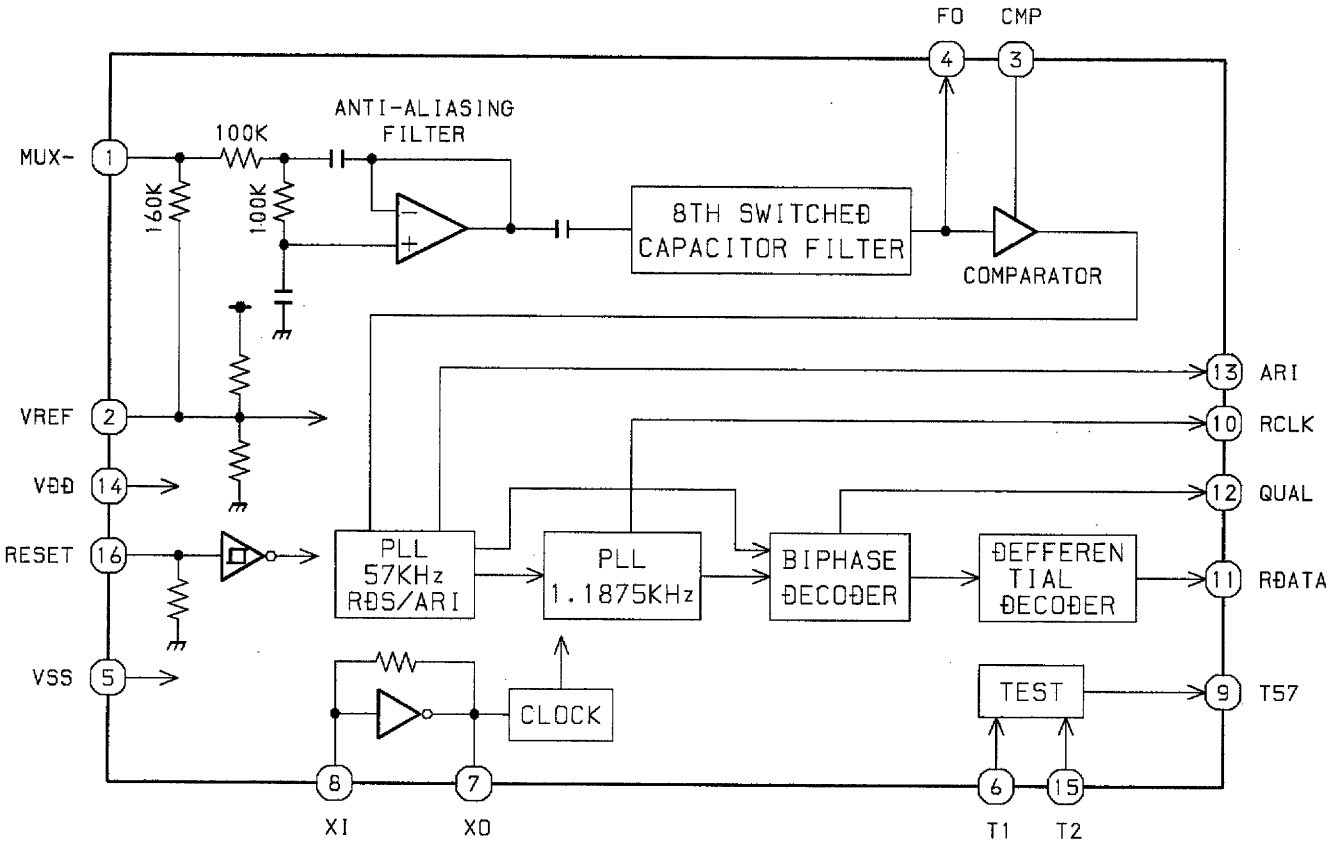
IC, HA12211NT

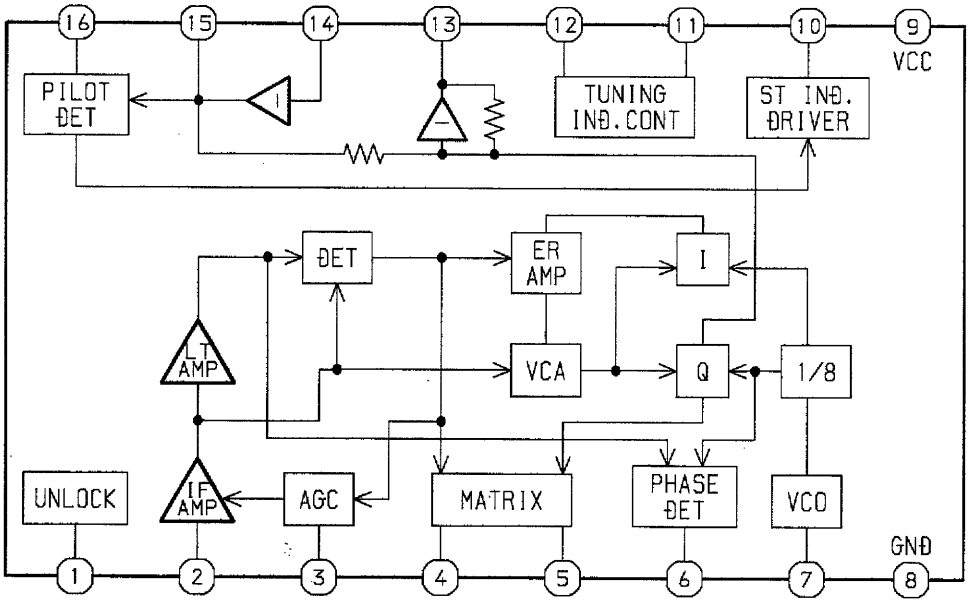


IC, CXA1553P



IC, BU1920FS




16
15
14
13
12
11
10
9
VCC
PILOT DET
TUNING IND. CONT
ST IND. DRIVER
DET
ER AMP
I
LT AMP
VCA
Q
1/8
UNLOCK
IF AMP
AGC
MATRIX
PHASE DET
VCO
GND
1
2
3
4
5
6
7
8

IC DESCRIPTION

IC, LC866556W-5E74 (EXCEPT EZ)

IC, LC866560W-5E98 (EZ)

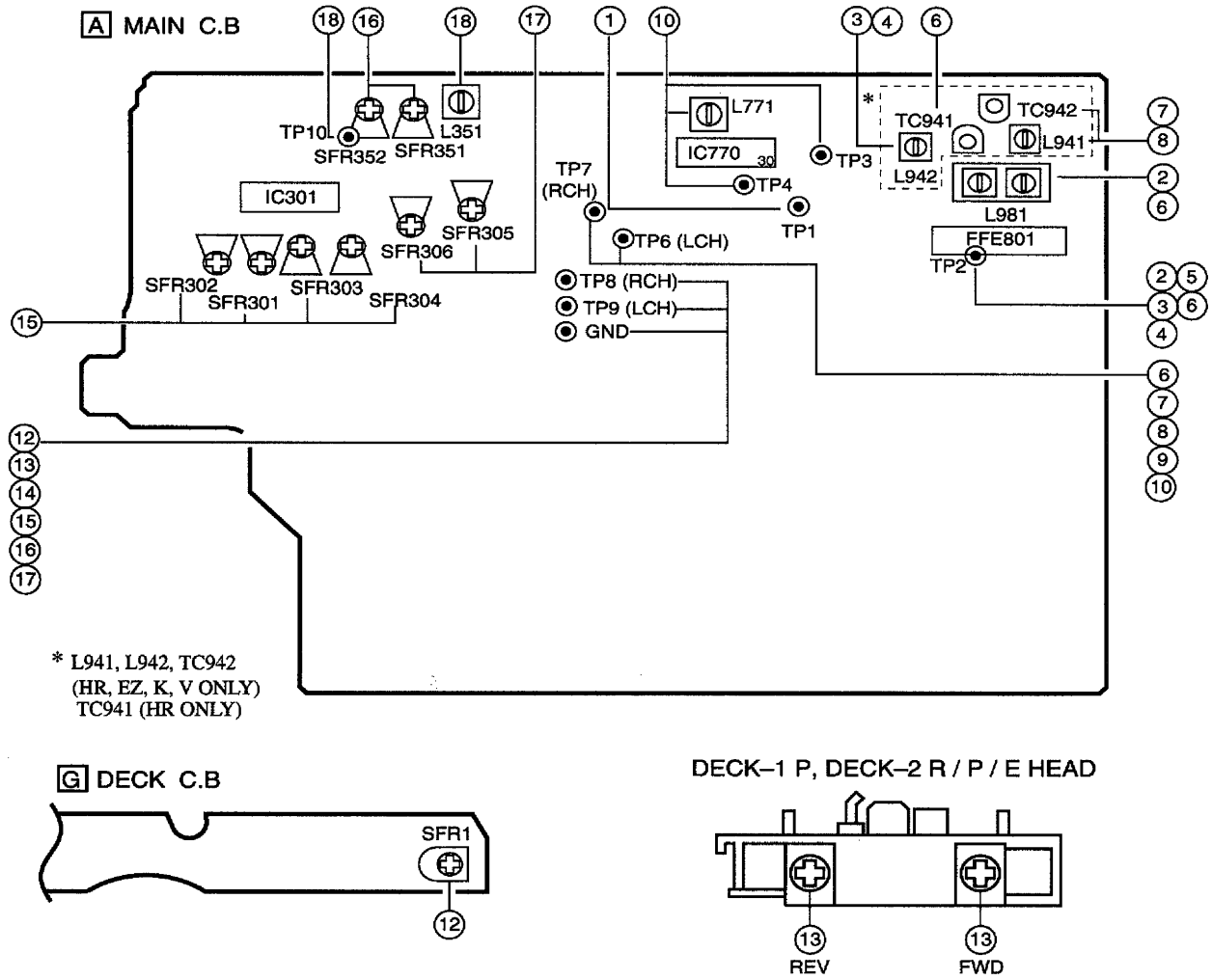
Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encorder input (electric volume).
2	RT-B	I	Rotary encorder input (electric volume).
3	RT-C	I	Rotary encorder input (multi jog switch).
4	XLT (CD)	O	XLT (CD) output.
5	CLK (CD)	O	CLOCK (CD) output.
6	O-GE LATCH	O	G.E data latch strobe output.
7	NC	–	Not used.
8	LED CE	O	LED shift resistor chip enable.
9	$\overline{\text{O-POWER}}$	O	Power on signal output.
10	O-MUTE	O	System mute output.
11	RT-D	I	Rotary encorder input (multi jog switch).
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	I	Headphone switch data input.
14	$\overline{\text{I-MIC}}$	I	Microphone input for auto vocal fader display .
15	VSS1	–	GND.
16	CF1	I	5.76 MHz oscillator circuit.
17	CF2	O	5.76 MHz oscillator circuit.
18	VDD1	–	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detected input "L" to stop lock & maintain memory.
20	KEY 1 ~ 3	I	Key input 1 ~ 3 (A/D).
23	I-CDSW	I	CD mechanical switch A/D converter input.
24	I-DI-SENS	I	CD turntable photo sensor A/D converter input.
25	I-TU-SIG/$\overline{\text{MS}}$	I	Tuner signal input & deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-RDS-CLK/I-SENS	I	Tuner RDS clock input /CD sens 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	G1 ~ G8	O	FL grid output G1 ~ G8.
38 ~ 41	S1 ~ S4	O	FL segment output S1 ~ S4.
42 ~ 44	G9 ~ G11	O	FL grid output G9 ~ G11.
45	S5	O	FL segment output S5.
46	VDD3	–	Power supply input.
47 ~ 50	S6 ~ S9	O	FL segment output S6 ~ S9.
51	-VFL	–	Power supply input for FL display.
52 ~ 60	S10 ~ S18	O	FL segment output S10 ~ S18.
61	S19/O-SPEANA C	I/O	FL segment output S19 / SPEANA band changing C output.
62	S20/O-SPEANA B	I/O	FL segment output S20 / SPAENA band changing B output.
63	S21/O-SPEANA A	I/O	FL segment output S21 / SPEANA band changing A output.
64	S22/$\overline{\text{CST-1}}$	I/O	FL segment output S22 / DECK1 cassette detect switch data input.
65	S23/$\overline{\text{AUTO1}}$	I/O	FL segment output S23 / DECK1 auto stop signal input.
66	S24/$\overline{\text{CAM1}}$	I/O	FL segment output S24 / DECK1 cam switch data input.
67	S25/$\overline{\text{CAM2}}$	I/O	FL segment output S25 / DECK2 cam switch data input.

Pin No.	Pin Name	I/O	Description
68	S26/$\overline{\text{AUTO2}}$	I/O	FL segment output S26 / DECK2 auto stop signal input.
69	S27/$\overline{\text{CST2}}$	I/O	FL segment output S27 / DECK2 cassette detect switch data input.
70	S28/$\overline{\text{REA}}$	I/O	FL segment output S28 / DECK2 side-A record ok switch data input.
71	S29/$\overline{\text{REB}}$	I/O	FL segment output S29 / DECK2 side-B record ok switch data input.
72	VDD4	–	Power supply input.
73	S30/PRO LOGIC	I/O	FL segment output S30 / Pro logic diode data input to diode.
74	S31/D-TG	I/O	FL segment output S31 / Tracking gain +2dB up switch.
75	S32/SEL1	I/O	FL segment output S32 / Tuner model select mode data1 input to diode.
76	S33/SEL2	I/O	FL segment output S33 / Tuner model select mode data2 input to diode.
77	S34/SEL3	I/O	FL segment output S34 / Tuner model select mode data3 input to diode.
78	S35/C-ATG	I/O	FL segment output S35 / Switch of cancel auto tracking gain.
79	S36/C-ATB	I/O	FL segment output S36 / Switch of cancel auto tracking balance.
80	S37/C-FB	I/O	FL segment output S37 / Switch of adjust focus bias center.
81	S38/+3dB	I/O	FL segment output S38 / Switch of increase +3dB for E-VR.
82	S39	O	FL segment output S39
83	S40	O	FL segment output S40.
84	K-SCAN	O	Switch scan timing output.
85	O-OPEN	O	CD tray open data output.
86	O-CLOSE	O	CD tray close data output.
87	O-DI/R	O	CD turntable reverse rotation output.
88	O-DI/F	O	CD turntable forward rotation output.
89	VSS2	–	GND.
90	VDD2	–	Power supply input.
91	O-MOTOR	O	Deck motor output.
92	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output (DECK2).
93	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output (DECK1).
94	O-M/STB	O	Main shift register data latch strobe output.
95	O-M/DATA	O	Main shift register, PLL / DSP / E-VR / GE / FUNC / PRO LOGIC related data output.
96	O-M/CLK	O	Main shift register, PLL / DSP / E-VR / GE / FUNC / PRO LOGIC related clock.
97	O-PLL-CE	O	PLL IC chip enable.
98	I-TUNER IFC/ I-SUBQ DATA	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input / CD.SUBQ input.
99	I-STEREO/ O-SUBQ CLK	I/O	Tuner stereo detected input / SUBQ clock (CD) output.
100	I-RDS-DATA/ DATA (CD)	I/O	RDS data input (TUNER) / Data CD 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 (LC866556W-5E74/LC866560W-5E98) 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 (LC866556W-5E74/LC866560W-5E98).</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>$\overline{\text{TUNE}}$</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>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>

ADJUSTMENT <TUNER / DECK>



< TUNER SECTION >

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

2a. MW VT Adjustment (HR)
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981
   Method : Set to MW 1710kHz and adjust L981 so that the test point is 8.5V ± 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.

2b. MW VT Adjustment (EXCEPT HR)
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981
   Method : Set to MW 531kHz (EZ, K, V, HD), 530kHz (LH, U) and adjust L981 so that the test point is 1.5V ± 0.05V. Then set to MW 1602kHz (EZ, K, V, HD), 1710kHz (LH, U) and check that the test point is less than 8.5V (EZ, K, V, HD), 6.0V ± 1.0V (LH,U).

3. LW VT Adjustment (EZ, K, V)
   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. Then set to LW 290 kHz and check test point is less than 6.0V.

4. SW VT Adjustment (HR)
   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. FM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to FM 76.0 MHz (HD), 87.5MHz (EXCEPT HD) and check that the test point is more than 0.4V (HD), 1.5V (EXCEPT HD). Then set to FM 108MHz and check the test point is less than 9.0V (HD), 8.5V (EXCEPT HD).

6a. MW Tracking Adjustment (HR)
Settings : • Test point : TP6,TP7
• Adjustment location :
L981 ..... 600kHz
TC941 ..... 1400kHz
Method : Set up TC941 to center before adjustment, the level at 600kHz is adjusted to MAX by L981. Then the level at 1400kHz is adjusted to MAX by TC941.

6b. MW Tracking Adjustment (EXCEPT HR)
Settings : • Test point : TP6, TP7
• Adjustment location : L981
Method : Set to MW 1000kHz (LH, U), 999kHz (EZ, K, V, HD) and adjust L981 so that the test point becomes MAX.

7. LW Tracking Adjustment (EZ, K, V)
Settings : • Test point : TP6,TP7
• Adjustment location :
L941 ..... 144kHz
TC942 ..... 290kHz
Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941 .Then the level at 290kHz is adjusted to MAX by TC942.

8. SW Tracking Adjustment (HR)
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 adjusted to MAX by L941 .Then the level at 17.9MHz is adjusted to MAX by TC942.

9. FM Tracking Check
Settings : • Test point : TP6(Lch), TP7(Rch)
Method : Set to FM 83.0MHz (HD), 98.0MHz (EXCEPT HD) and check that the test point is 6dB ± 6dB (EZ, K), 2dB ± 6 dB (EXCEPT EZ, K).

10. 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%.

11. Auto Stop Level Check

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

FM
Settings : • Input level :Variable
Method : Check the auto stop at FM 83.0MHz (HD), 98.0MHz (EXCEPT HD) and the input level is 25dB ± 10dB.

SW (HR)
Settings : • Input level :Variable
Method : Check the auto stop at SW 12.0MHz and the input level is less than 60dB.

12. 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.

13. Head Azimuth Adjustment (DECK1, DECK2)
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.

14. 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 0 ± 2dB. Lch and Rch difference level of 10kHz is less than 2.0dB.

15. 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.

16. 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 170mV. 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.

17. 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 check that the output is 17mV ± 0.5dB.

18. 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 :	6dB ± 6dB
(THD 3%)	[at 65.0 / 70.0 / 74.0MHz (V)]
	[at 87.5 / 98.0 / 108.0MHz (EZ,K)]
	[at 76.0 / 83.0 / 108.0MHz (HD)]
	4dB ± 6dB
	[at 87.5 / 98.0 / 108.0MHz (U,LH,HR)]
S/N 50dB Quieting sensitivity :	
	33dB ± 6dB
	[at 65.0 / 70.0 / 74.0MHz (V)]
	34dB ± 6dB
	[at 87.5 / 98.0 / 108.0MHz (EZ,K)]
	31dB ± 5dB
	[at 76.0 / 83.0 / 108.0MHz (HD)]
	30dB ± 6dB
	[at 87.5 / 98.0 / 108.0MHz (U,LH,HR)]
Signal to noise ratio :	Mono :
	More than 60dB (EZ,K)
	More than 65dB (U,LH,HR,V,HD)
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
	Stereo :
	More than 59dB (EZ,K)
	More than 64dB (U,LH,HR,V,HD)
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
Distortion :	Mono :
	Less than 1.3%
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
	Stereo :
	Less than 2.0%
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
Auto stop level :	30dB ± 10dB (EZ)
	25dB ± 10dB (EXCEPT EZ)
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
Stereo separation :	More than 25dB
	[at 83.0MHz (HD)]
	[at 98.0MHz (EXCEPT HD)]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity :	55dB ± 5dB
(S/N 20 dB)	[at 603kHz (EXCEPT U,LH)]
	[at 600kHz (U,LH)]
	53dB ± 5dB
	[at 999kHz (EXCEPT U,LH)]
	[at 1000kHz (U,LH)]
	53dB ± 5dB
	[at 999kHz (EXCEPT U,LH)]
	[at 1400kHz (U,LH)]
Signal to noise ratio :	More than 36dB
	[at 999kHz (EXCEPT U,LH)]
	[at 1000kHz (U,LH)]
Distortion :	Less than 1.5%
	[at 999kHz (EXCEPT U,LH)]
	[at 1000kHz (U,LH)]
Auto stop level :	50dB + 10/-15dB
	[at 999kHz (EXCEPT U,LH)]
	[at 1000kHz (U,LH)]
Intermediate frequency :	450kHz

<SW SECTION>(HR)

Sensitivity :	38dB ± 5dB [at 5.9MHz]
(S/N 20dB)	34dB ± 5dB [at 12.0MHz]
	30dB ± 8dB [at 17.9MHz]
Signal to noise ratio :	More than 36dB [at 12.0MHz]
Distortion :	Less than 1.5% [at 12.0MHz]

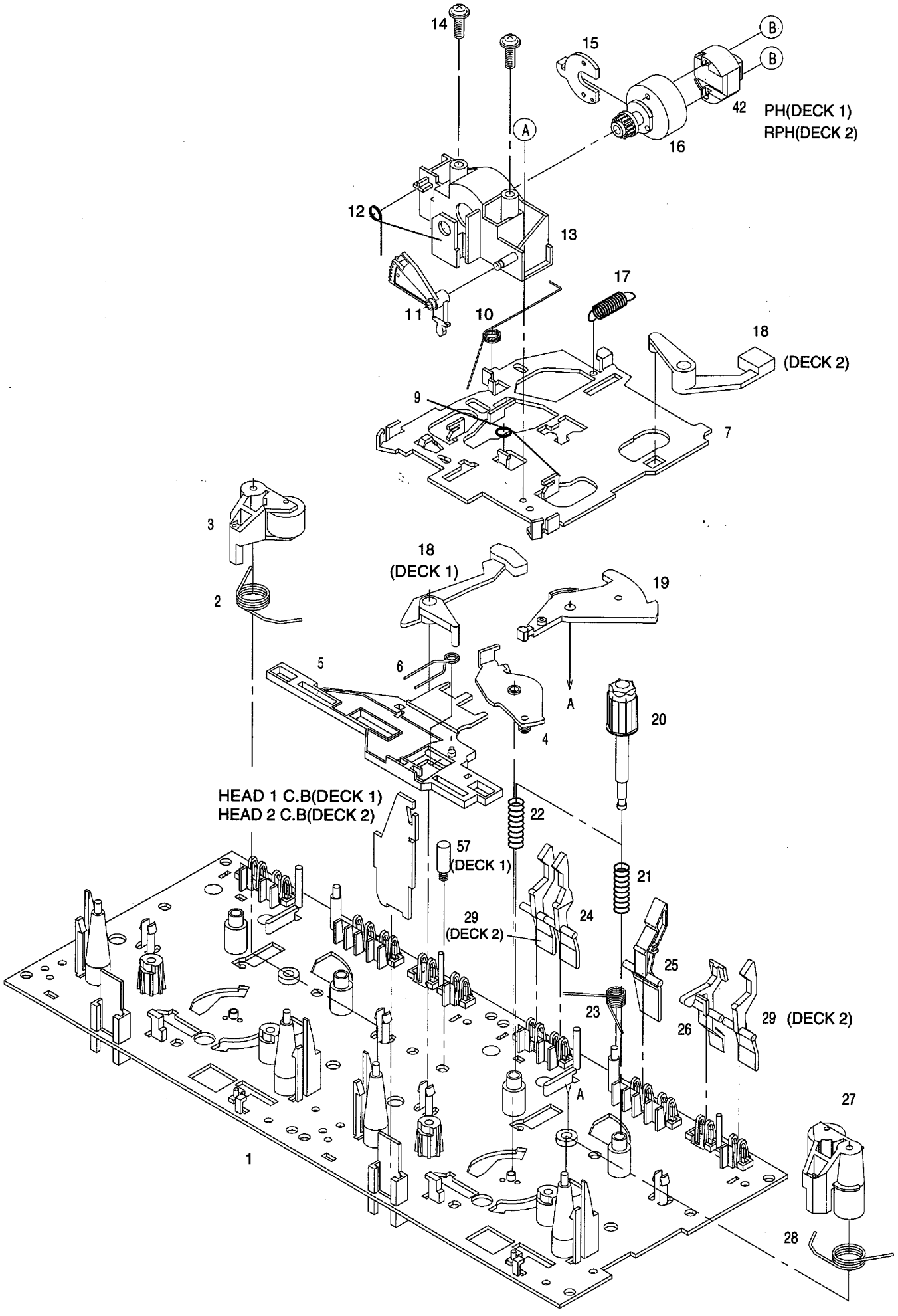
<LW SECTION>(EZ,K,V)

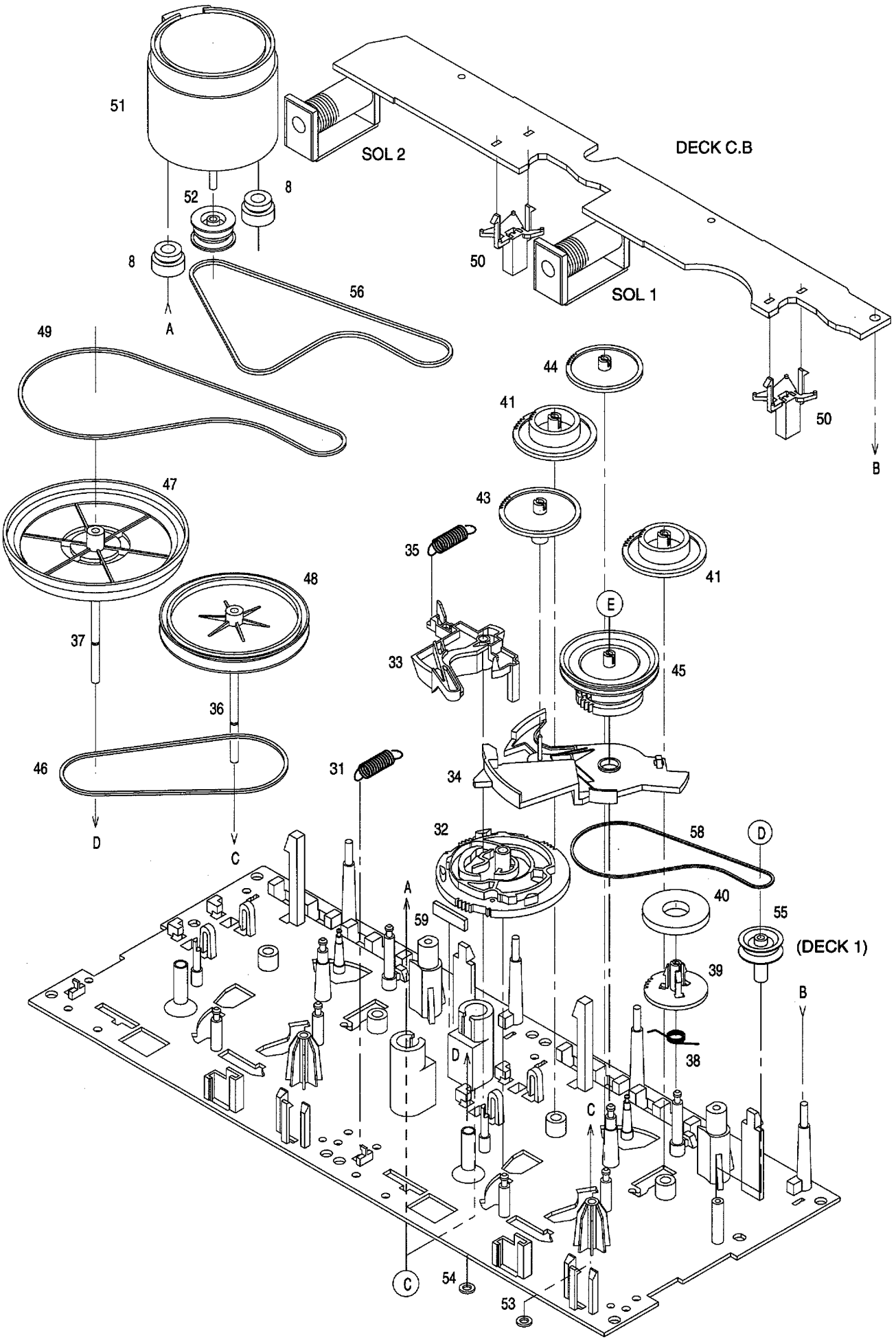
Sensitivity :	64dB ± 5dB [at 144kHz]
(S/N 20dB)	60dB ± 5dB [at 198kHz]
	60dB ± 5dB [at 290kHz]
Signal to noise ratio :	More than 30dB [at 198kHz]
Distortion :	Less than 1.5% [at 198kHz]
Auto stop level :	66dB + 10/-15dB [at 198kHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15%
	(W.R.M.S)
Take-up torque :	45 + 10/-15g-cm
	(FWD, REV)
F.F torque :	100 + 80/-25g-cm
REW torque :	100 + 30/-25g-cm
Back tension :	3 + 4/-1g-cm
	(FWD, REV)
PB output level :	300mV± 1dB
	(SP OUT 2V)
REC/PB output level :	150mV ± 1dB
	(SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
	(NORM, CrO_2)
Noise level (PB) :	Less than 2.0mV
	(NORM, SP OUT 2V, DOLBY OFF)
	Less than 1.2mV
	(CrO_2, SP OUT 2V, DOLBY ON B,C)
Noise level (REC/PB) :	Less than 2.4mV
	(NORM, SP OUT 2V, DOLBY OFF)
	Less than 1.4mV
	(CrO_2, SP OUT 2V, DOLBY ON B,C)
Crosstalk :	More than 60dB
	(1kHz, 0VU)
Channel separation :	More than 35dB
	(1kHz, 0VU)
Erasing ratio :	More than 60dB
	(at 125Hz, 10VU)
Test tape :	TTA-602 (NORMAL)
	TTA-615 (CrO_2)

TAPE MECHANISM EXPLODED VIEW 1 / 1



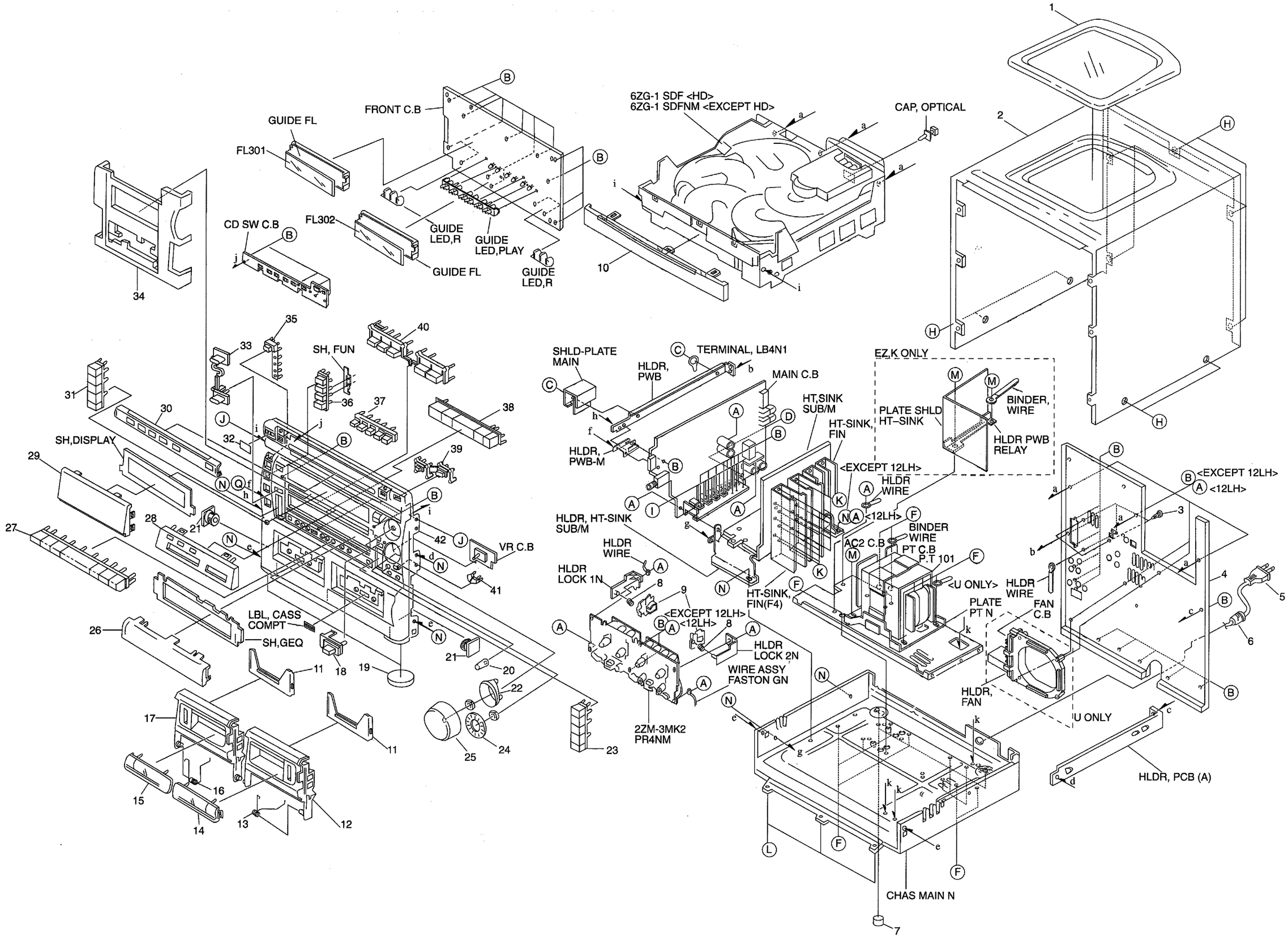

51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
49
44
41
50
B
47
43
35
41
48
E
37
33
45
36
46
31
34
D
C
32
58
D
A
40
55
59
(DECK 1)
39
B
38
D
C
C
54
53

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 ".

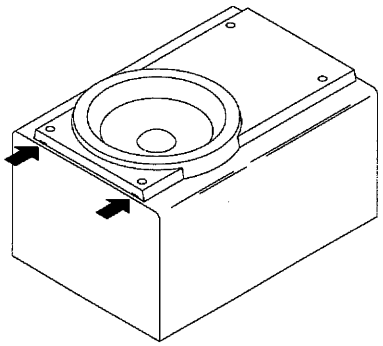
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MAT-009-010		WINDOW,TOP(U)<U>
1	86-MA3-042-010		WINDOW,TOP<EXCEPT U>
2	86-NFW-014-010		CABI,STEEL<12LH,15LH>
2	86-NF9-076-010		CABI,STEEL<EXCEPT 12LH,15LH>
3	87-084-077-010		RIVET,NYL 3.5-4.5
4	86-NF9-085-110		PANEL,REAR UBN M99N<99U>
4	86-NF9-090-010		PANEL,REAR EZBNE N<EZ>
4	86-NF9-091-110		PANEL,REAR KBNE N<K>
4	86-NF9-086-110		PANEL,REAR UBNM 98N<98U>
4	86-NF9-084-110		PANEL,REAR LHBNM N<9LH>
4	86-NF9-083-110		PANEL,REAR HRJBNM N<HR>
4	86-NF9-087-110		PANEL,REAR VJBNM N<V>
4	86-NF9-088-010		PANEL,REAR HDB N<HD>
4	86-NF9-089-110		PANEL,REAR LHBNM 15N<15LH>
4	86-NF9-103-110		PANEL,REAR LH W/O SPEC<12LH>
⚠ 5	87-050-079-010		AC CORD ASSY,E BLK<EZ,LH,HR,V>
⚠ 5	87-050-097-010		AC CORD ASSY,H<HD>
⚠ 5	87-050-053-010		AC CORD ASSY,U-2<U>
⚠ 5	87-A80-059-010		AC CORD ASSY,K 3P(5A)<K>
6	87-085-185-010		BUSHING,AC CORD(E)<EXCEPT HD,U>
6	87-085-189-010		BUSHING,AC CORD(U) CM-22C<U>
6	87-085-184-010		BUSHING,AC CORD(D)CM22A<HD>
7	87-085-221-010		FOOT, H 13.5
8	82-NF5-228-010		SPR-C,LOCK<EXCEPT U>
8	86-NF9-224-010		SPR-C,LOCK<U>
9	82-NF5-229-010		PLATE,LOCK(*)
10	86-NF9-075-010		PANEL,TRAY ASSY E<U,EZ,K,V>
10	86-NF9-074-010		PANEL,TRAY ASSY<9LH,HR,HD>
10	86-NFW-009-010		PANEL,TRAY ASSY<12LH,15LH>
11	86-NF6-061-010		REFLECTOR,CASS
12	86-NF9-065-010		BOX,CASS 2E<U,EZ,K,V>
12	86-NF9-004-010		BOX,CASS 2<9LH,HR,HD>
12	86-NH9-004-010		BOX,CASS 2<12LH,15LH>
13	82-NF5-219-010		SPR-T,EJECT 2(SIN)
14	86-NF9-014-010		WINDOW,CASS 2
15	86-NF9-013-010		WINDOW,CASS 1
16	82-NF5-218-010		SPR-T,EJECT 1(SIN)
17	86-NF9-064-010		BOX,CASS 1E<U,EZ,K,V>
17	86-NF9-003-010		BOX,CASS 1<9LH,HR,HD>
17	86-NH9-003-010		BOX,CASS 1<12LH,15LH>
18	86-NF9-038-010		KEY,DSP OFF
19	86-NF9-034-010		RING,FOOT
20	86-NT1-023-010		KNOB,RTRY MIC
21	87-063-165-010		OIL-DMPR,150
22	86-NF9-032-010		RING,VOL
23	86-NF9-026-010		KEY,DSP
24	86-NF9-033-010		KNOB,RTRY JOG<EXCEPT 12LH,15LH>
24	86-NH9-013-010		KNOB,RTRY JOG<12LH,15LH>
25	86-NF9-031-010		KNOB,RTRY VOL<EXCEPT 12LH,15LH>
25	86-NH9-012-010		KNOB,RTRY VOL<12LH,15LH>
26	86-NF9-012-010		WINDOW,GEQ
27	86-NF9-041-010		KEY,RDS<EZ>
27	86-NF9-030-010		KEY,BBE<EXCEPT EZ>
28	86-NF9-008-010		PANEL,CONTROL
29	86-NF9-067-010		WINDOW,DISPLAY RDS<EZ>
29	86-NF9-011-010		WINDOW,DISPLAY<EXCEPT EZ>
30	86-NF9-010-010		WINDOW,CD
31	86-NF9-025-010		KEY,GEQ
32	82-NE6-067-010		BADGE,AIWA 30N
33	86-NF9-037-010		KEY,GEQ OFF
34	86-NF9-007-110		PANEL,FR
35	86-NF9-042-010		KEY,ASSY POWER
36	86-NF9-024-010		KEY,FUN<EXCEPT 12LH,15LH>
36	86-NH9-009-010		KEY,FUN<12LH,15LH>
37	86-NF9-016-110		KEY,ASSY DISC
38	86-NF9-043-110		KEY,ASSY PLAY
39	86-NF9-015-010		KEY,OPEN<EXCEPT 12LH,15LH>
39	86-NH9-008-010		KEY,OPEN<12LH,15LH>
40	86-NF9-039-110		KEY,REC
41	86-NF9-029-010		KEY,MEMORY<EXCEPT 12LH,15LH>
41	86-NH9-017-010		KEY,MEMORY<12LH,15LH>
42	86-NF9-062-210		CABI,FR E<EZ,K,V>
42	86-NF9-073-210		CABI,FR U 98<98U>
42	86-NF9-061-210		CABI,FR U<99U>
42	86-NF9-001-210		CABI,FR<9LH,HR,HD>
42	86-NF9-078-010		CABI,FR H ST15<15LH>
42	86-NF9-077-010		CABI,FR H ST12<12LH>
A	87-067-579-010		BVT2+3-8 W/O SLOT
B	87-067-703-010		BVT2+3-10 W/O SLOT
C	87-741-094-410		UT2+3-6 W/P SLOT
D	87-NF4-224-010		S-SCREW,IT3B+3-8CU
F	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
H	87-067-641-010		UTT2+3-8 W/O SLOT BLK
I	87-067-581-010		BVT2+3-15 W/O SLOT
J	87-721-097-410		QT2+3-12 W/O SLOT
K	87-B10-090-010		BVIT3B+3-12 GOLD
L	87-067-673-010		BVTT+3-8 BLK
M	87-078-191-010		S-SCREW,IT+4-10
N	87-591-095-410		QIT+3-8
P	87-067-584-010		BVT2+3-6 W/O SLOT
Q	87-723-096-410		QT2+3-10 BLK

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。

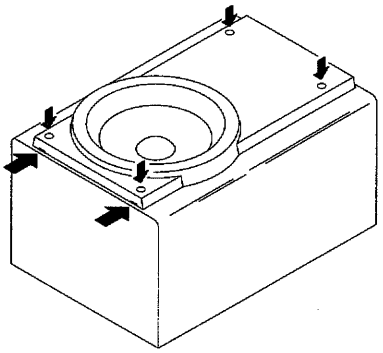
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



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。

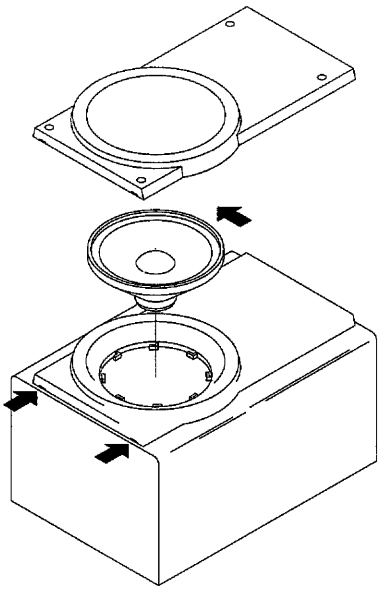
Remove the grill frame and four pieces fo rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then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



SX-NAVF9 <Y,YJ,YL,YJ7>
SX-SNAVF9 <Y>
SX-NAVF99 <YU>
SX-SNAVF12 <YL>
SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSW-001-010		PANEL,FR R<9(YJB,YLB,YJ7B,YB),99YUB>
1	86-NSW-017-010		PANEL,FR R ST<9(YJST,YLST,YJ7ST,YST),99YUST>
2	86-NSW-002-010		PANEL,FR L<9(YJB,YLB,YJ7B,YB),99YUB>
2	86-NSW-018-010		PANEL,FR L ST<9(YJST,YLST,YJ7ST,YST),99YUST>
3	86-NSW-019-010		PANEL, FR R ASSY<12YL>
4	86-NSW-020-010		PANEL, FR L ASSY<12YL>
5	86-NSW-008-010		GRILLE,FRAME ASSY
6	86-NSW-602-010		SPKR,W<EXCEPT 12YL>
7	86-NSW-604-010		SPKR,TW<EXCEPT 12YL>
8	86-NSW-606-010		SPKR,W 160 ASSY<12YL>
9	83-096-614-010		SPEAKER CODE

SX-FNF98 <YUBNC>
SPEAKER PARTS LIST

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

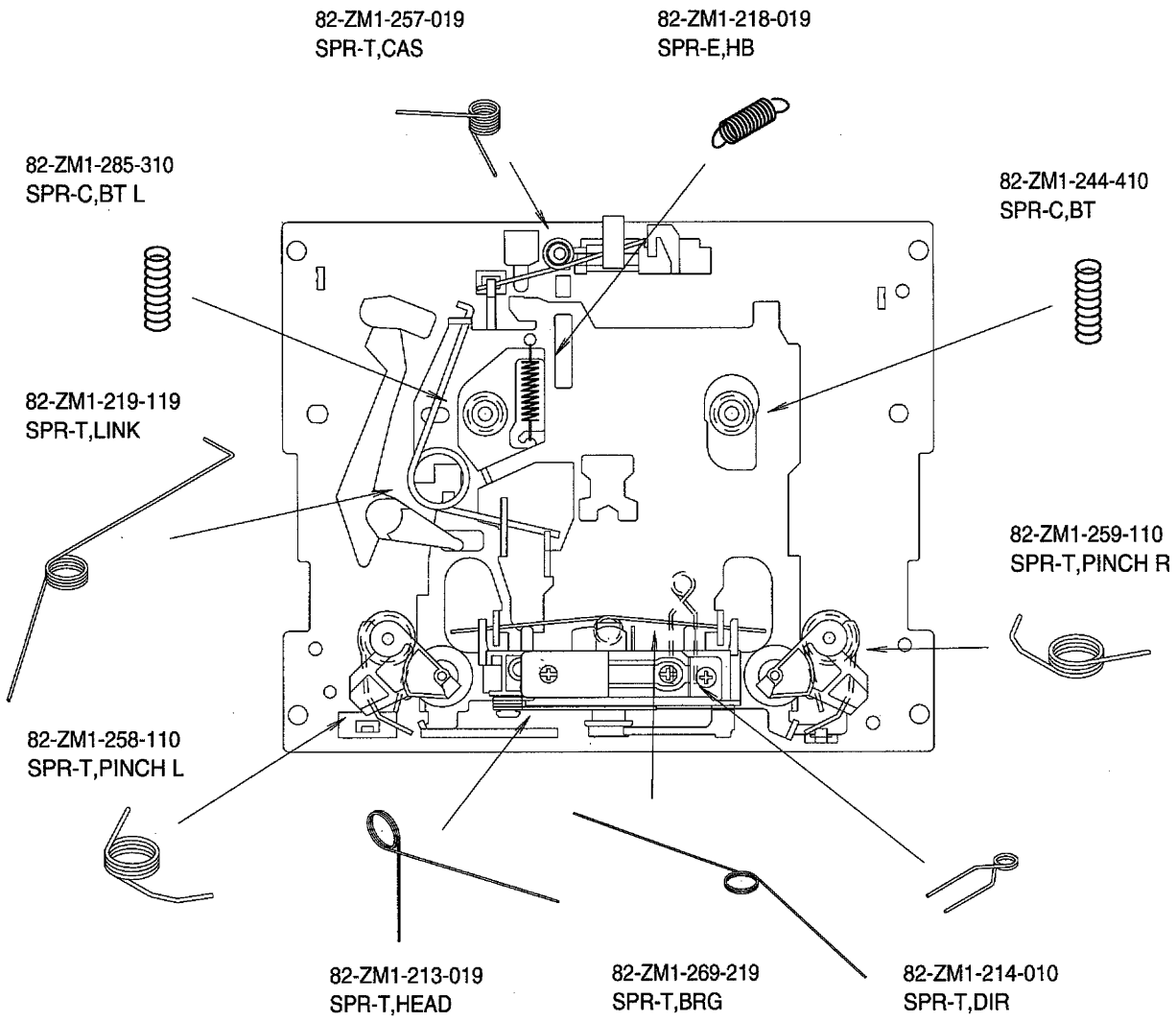
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS9-602-010		SPKR,W 160
2	86-NS9-604-010		SPKR,T 80
3	86-NS5-606-010		SPKR,80
4	86-NSA-003-010		GRILLE,FRAME ASSY
5	86-NSA-001-010		PANEL,FR
6	86-NSA-007-010		PANEL,TW
7	86-NSA-008-010		HLDR,SQ

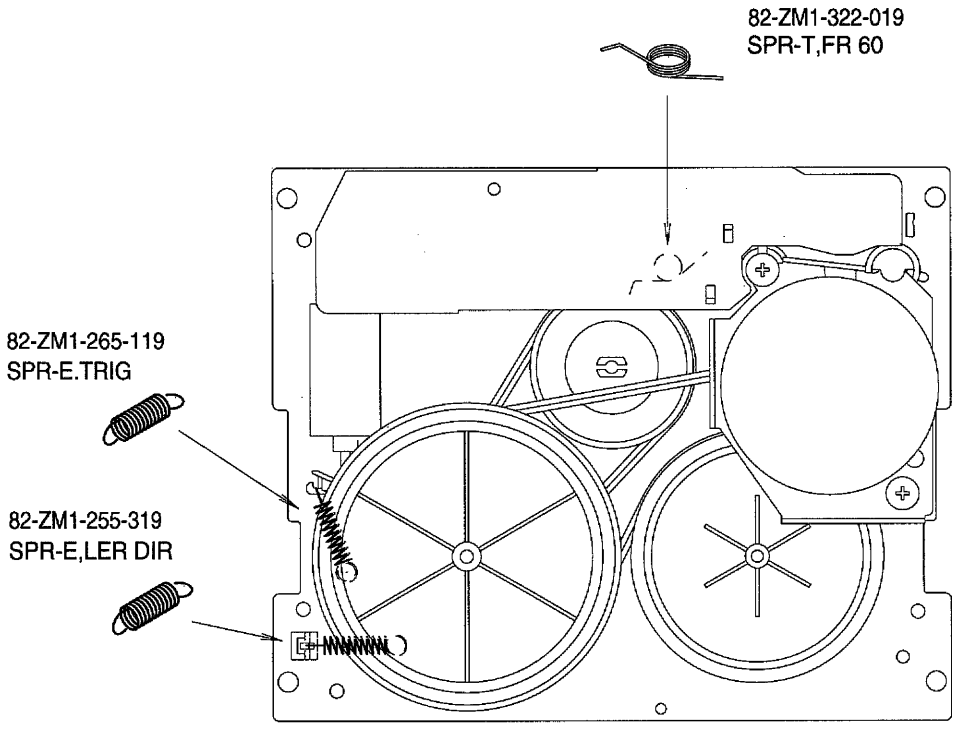
SX-R280 <Y, YJ, YJ7>
SPEAKER PARTS LIST

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

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

SPRING APPLICATION POSITION





ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF9-913-010		IB,UA(ESF)M-98<98U>
1	86-NF9-912-010		IB,UA(ESF)M99<99U>
1	86-NF9-914-010		IB,KA(E) E<K>
1	86-NF9-915-010		IB,EA(EGFSI) E<EZ>
1	86-NF9-917-010		IB,LH(BR)-F12<12LH>
1	86-NF9-910-110		IB,LHA(ESP)M<9LH,15LH>
1	86-NF9-911-010		IB,HA(ECA)M<HR,HD>
1	86-NF9-916-010		IB,VA-M<V>
2	86-MA3-703-010		RC UNIT,6AS01
3	87-043-115-010		FEEDER-ANT,FM<EXCEPT EZ,K>
4	87-006-225-010		ANT,LOOP ANT NC2<EXCEPT HR>
5	87-043-106-010		ANT,FM 1007 AWG<EZ,K>
⚠ 6	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<9(LH,HR),15LH>
⚠ 6	87-009-724-010		PLUG,ADPTR<HD>
7	87-A90-054-010		ANT,LOOP AM-CON C<HR>
8	87-043-095-010		ANT,WIRE<HR>

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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G— —	

アイワ株式会社
AIWA CO.,LTD.

9301978, 750038
Tokyo Japan

〒110 東京都台東区池之端1—2—11 ☎03（3827）3111 （代表）

Printed in Singapore