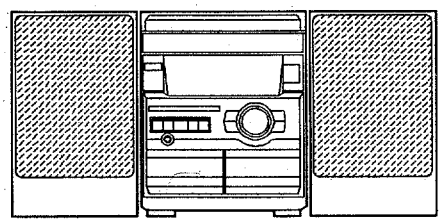
aiwa

aiwa SERVICE

NSX-A92
NSX-A94
NSX-S90
NSX-S94



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM–3MK2 PR4NM
- BASIC CD MECHANISM: 4ZG–1 Z1DNM
- TYPE: U, LH, HR

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX–A92	CX–NA92 (TYPE : U)	SX–ANA92	RC–7AS08
NSX–A94		SX–NA94 SX–R240	
NSX–S90	CX–NS90 (TYPE : LH)	SX–ANS90	
NSX–S94	CX–NS94 (TYPE : LH)	SX–NS94 SX–R240	
NSX–S94	CX–NS94 (TYPE : HR)	SX–NS94 SX–R280	

- 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 Speaker, see Service Manual of SX-ANA92/ SX-ANS90/SX-NA94/SX-NS94. (S/M Code No.09-974-199-4FP)

S/M Code No. 09–974–181–9FP

SERVICE MANUAL

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SPECIFICATIONS

<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 only)

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	U: 145 W + 145 W (50 Hz - 20 kHz, T.H.D. less than 1 %, 6 ohms) LH: 180 W + 180 W (6 ohms, T.H.D. 10 %, 1 kHz) HR: Rated: 145 W + 145 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 180 W + 180 W (6 ohms, T.H.D. 10 %, 1 kHz)
	* without connecting to the SURROUND SPEAKERS
Total harmonic distortion	0.05 % (120 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	U: VIDEO/AUX: 400 mV (adjustable) MD: 400 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 mV SUPER WOOFER: 2.9 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz - 16000 Hz Normal tape: 50 Hz –15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO2 tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback/ erase head x 1

<Compact disc player section>

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

<General>

Power requirements	U: 120 V AC, 60Hz LH,HR: 120 V/220 – 230 V/240 V AC, switchable, 50/60 Hz
Power consumption	U: 125 W LH,HR: 185 W
Dimensions of main unit (W x H x D)	U: 260 x 308 x 370 mm ($10^1/_4$ x $12^1/_4$ x $14^5/_8$ in.) LH,HR: 260 x 309 x 370 mm
Weight of main unit	9 kg (19 lbs 13 oz.)

<Speaker system SX–ANA92 / SX–ANS90>

Cabinet type	4 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer: 160 mm ($6^3/_8$ in.) cone type Tweeter: 50 mm (2 in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type Cardioid speaker: 80 mm ($3^1/_4$ in.) cone type Surround speaker: 80 mm ($3^1/_4$ in.)
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	250 x 390 x 302 mm ($9^7/_8$ x $15^3/_8$ x 12 in.)
Weight	5.0 kg (11 lbs.)

<Speaker system SX–NA94 / SX–NS94>

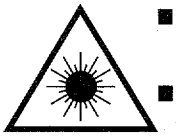
Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 160 mm ($6^3/_8$ in.) cone type Tweeter: 80 mm ($3^1/_4$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	243 x 304 x 245 mm ($9^5/_8$ x 12 x $9^3/_4$ in.)
Weight	3.8 kg (8 lbs. 6 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.

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 saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

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

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

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

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

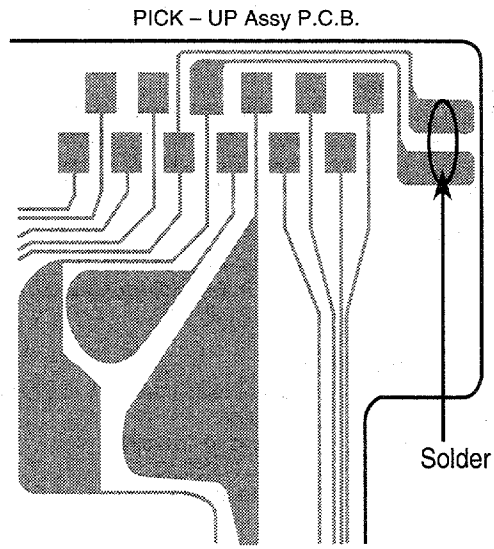
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213B)

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

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



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-NF4-641-010		IC,LC866548V-5E15<EXCEPT HR>
	87-NF4-642-010		IC,LC866548V-5E54<HR>
	87-070-083-010		IC,GP1U281X<HR>
	87-A20-448-010		IC,PIC-21043TE3<EXCEPT HR>
	87-070-289-040		C-IC,BU2092F
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-056-010		IC,BA3880S
	87-A20-613-040		C-IC,BU9262AFS
	87-A20-561-040		C-IC,M65847AFP<HR>
	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
TRANSISTOR			
	87-026-463-080		TR,2A933S
	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
	87-026-211-080		C-TR,DTA144EK<HR>
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-106-070		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(O)
	89-505-434-540		C-FET,2SK543-TB(4/5)<HR>
DIODE			
	87-A40-246-080		DIODE,1N4148T-72
	87-017-654-010		DIODE,GBU6JL6131<HR>
	87-A40-115-060		DIODE,RS603M<EXCEPT HR>
	87-017-654-060		DIODE,GBU6JL6131<LH,HR>
	87-017-437-080		DIODE,1N4148M
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-205-080		ZENER,UZ6.2BSC
	87-A40-211-080		ZENER,UZ36BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-274-010		DIODE,FMB-G16L<LH,HR>
	87-A40-370-090		DIODE,RK46-P20<U>
	87-A40-202-080		ZENER,UZ5.1BSB
	87-017-481-080		ZENER,UZ-5.6BSB
	87-A40-192-080		ZENER,UZ4.3BSA
	87-A40-239-080		ZENER,UZ5.6BSA
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 M SMG
C104	87-016-658-090		CAP,E 4700-35 M SMG
C105	87-012-368-080		C-CAP,S 0.1-50 ZF
C106	87-012-368-080		C-CAP,S 0.1-50 ZF
C107	87-012-368-080		C-CAP,S 0.1-50 ZF
C108	87-012-368-080		C-CAP,S 0.1-50 ZF
C109	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C110	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C111	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C112	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C113	87-010-247-080		CAP,E 100-50 M SME
C114	87-010-385-080		CAP,E 220-25 M SME<HR>
C115	87-010-385-080		CAP,E 220-25 M SME<HR>
C116	87-010-247-080		CAP,E 100-50 M SME
C117	87-010-430-080		CAP,E 100-63
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 SME<U>
C123	87-010-247-080		CAP,E 100-50 M SME<LH,HR>
C123	87-010-382-080		CAP,E 22-25 M SME<U>
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C129	87-010-393-080		CAP,E 100-35 M SME
C201	87-010-400-080		CAP,E 0.47-50 M SME
C202	87-010-400-080		CAP,E 0.47-50 M SME
C205	87-010-184-080		C-CAP,S 3300P-50 KB
C206	87-010-184-080		C-CAP,S 3300P-50 KB
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 KB
C212	87-010-186-080		C-CAP,S 4700P-50 KB
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 ZF C2012
C219	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<U>
C219	87-012-368-080		C-CAP,S 0.1-50 ZF<LH,HR>
C220	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<U>
C220	87-012-368-080		C-CAP,S 0.1-50 ZF<LH,HR>
C221	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<U>
C221	87-012-368-080		C-CAP,S 0.1-50 ZF<LH,HR>
C222	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<U>
C222	87-012-368-080		C-CAP,S 0.1-50 ZF<LH,HR>
C223	87-010-194-080		C-CAP,S 0.047-25 ZF
C225	87-A10-516-080		C-CAP,S 100P-200 JC<HR>
C225	87-010-322-080		C-CAP,S 100P-50 J CH<EXCEPT HR>
C226	87-A10-516-080		C-CAP,S 100P-200 JC<HR>
C226	87-010-322-080		C-CAP,S 100P-50 J CH<EXCEPT HR>
C229	87-016-461-080		C-CAP,S 0.47-16 ZF<HR>
C230	87-016-461-080		C-CAP,S 0.47-16 ZF<HR>
C241	87-010-405-080		CAP,E 10-50 M SME
C242	87-010-405-080		CAP,E 10-50 M SME<U>
C242	87-010-406-080		CAP,E 22-50 M SME<LH,HR>
C243	87-010-197-080		C-CAP,S 0.01-25 KB
C244	87-010-406-080		CAP,E 22-50 M SME<LH,HR>
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 ZF C2012
C311	87-010-198-080		C-CAP,S 0.022-25 KB
C312	87-010-198-080		C-CAP,S 0.022-25 KB
C313	87-010-180-080		C-CAP,S 1500P-50 KB

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C314	87-010-180-080		C-CAP,S 1500P-50 KB
C315	87-010-178-080		C-CAP,S 1000P-50 KB
C316	87-010-178-080		C-CAP,S 1000P-50 KB
C317	87-012-142-080		C-CAP,S 0.33-16 ZF
C318	87-012-142-080		C-CAP,S 0.33-16 ZF
C319	87-012-141-080		C-CAP,S 0.22-16 ZF
C320	87-012-141-080		C-CAP,S 0.22-16 ZF
C321	87-012-141-080		C-CAP,S 0.22-16 ZF
C322	87-012-141-080		C-CAP,S 0.22-16 ZF
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 ZF 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 ZF C2012
C339	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C340	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL
C355	87-010-178-080		C-CAP,S 1000P-50 KB
C356	87-010-260-080		CAP,E 47-25 SME
C357	87-010-197-080		C-CAP,S 0.01-25 KB
C358	87-010-183-080		C-CAP,S 2700P-50 KB
C359	87-010-183-080		C-CAP,S 2700P-50 KB
C360	87-010-183-080		C-CAP,S 2700P-50 KB
C370	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C371	87-010-179-080		C-CAP,S 1200P-50 KB
C372	87-010-179-080		C-CAP,S 1200P-50 KB
C373	87-010-179-080		C-CAP,S 1200P-50 KB
C374	87-010-179-080		C-CAP,S 1200P-50 KB
C375	87-010-545-080		CAP,E 0.22-50 M SME
C376	87-010-545-080		CAP,E 0.22-50 M SME
C378	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C381	87-010-197-080		C-CAP,S 0.01-25 KB
C382	87-010-318-080		C-CAP,S 47P-50 J CH
C383	87-010-197-080		C-CAP,S 0.01-25 KB
C384	87-010-402-080		CAP,E 2.2-50 M SME
C385	87-010-184-080		C-CAP,S 3300P-50 KB
C386	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C388	87-010-154-080		C-CAP,S 10P-50 D CH
C401	87-010-187-080		C-CAP,S 5600P-50 KB
C402	87-010-187-080		C-CAP,S 5600P-50 KB
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 KB
C408	87-010-188-080		C-CAP,S 6800P-50 KB
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 KB
C412	87-010-197-080		C-CAP,S 0.01-25 KB
C413	87-010-195-080		C-CAP,S 0.068-25 ZF C2012
C414	87-010-195-080		C-CAP,S 0.068-25 ZF C2012
C415	87-010-404-080		CAP,E 4.7-50 M SME
C416	87-010-404-080		CAP,E 4.7-50 M SME
C417	87-010-404-080		CAP,E 4.7-50 M SME
C418	87-010-404-080		CAP,E 4.7-50 M SME
C421	87-010-401-080		CAP,E 1-50 M SME
C422	87-010-401-080		CAP,E 1-50 M SME
C503	87-012-154-080		C-CAP,S 150P-50 J CH GRM<HR>
C504	87-012-154-080		C-CAP,S 150P-50 J CH GRM<HR>
C505	87-012-145-080		C-CAP,S 270P-50 J CH<HR>
C506	87-012-145-080		C-CAP,S 270P-50 J CH<HR>
C507	87-010-183-080		C-CAP,S 2700P-50 KB<HR>
C509	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<HR>
C510	87-010-177-080		C-CAP,S 820P-50 J SL<HR>
C511	87-010-177-080		C-CAP,S 820P-50 J SL<HR>
C512	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<HR>
C513	87-010-374-080		CAP,E 47-10 M SME<HR>
C514	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<HR>
C515	87-010-263-080		CAP,E 100-10 SME<HR>
C516	87-010-196-080		C-CAP,S 0.1-25 ZF<EXCEPT HR>
C517	87-010-183-080		C-CAP,S 2700P-50 KB<HR>
C527	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<HR>
C605	87-010-180-080		C-CAP,S 1500P-50 KB
C606	87-010-180-080		C-CAP,S 1500P-50 KB
C611	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
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 KB
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C623	87-010-194-080		C-CAP,S 0.047-25 ZF
C629	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C646	87-010-322-080		C-CAP,S 100P-50 J CH
C647	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME
C703	87-010-197-080		C-CAP,S 0.01-25 KB
C704	87-010-197-080		C-CAP,S 0.01-25 KB
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C713	87-010-197-080		C-CAP,S 0.01-25 KB
C714	87-010-197-080		C-CAP,S 0.01-25 KB
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 KB
C725	87-010-178-080		C-CAP,S 1000P-50 KB
C727	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-197-080		C-CAP,S 0.01-25 KB
C756	87-010-197-080		C-CAP,S 0.01-25 KB
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 ZF C2012
C762	87-010-197-080		C-CAP,S 0.01-25 KB
C763	87-010-194-080		C-CAP,S 0.047-25 ZF
C765	87-010-197-080		C-CAP,S 0.01-25 KB
C766	87-010-197-080		C-CAP,S 0.01-25 KB
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 KB
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-821-080		C-CAP, 0.047-50 ZF GR
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 ZF
C773	87-010-196-080		C-CAP,S 0.1-25 ZF 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 KB<EXCEPT 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 ZF 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 KB
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 KB
C788	87-010-184-080		C-CAP,S 3300P-50 KB
C789	87-010-179-080		C-CAP,S 1200P-50 KB
C790	87-010-179-080		C-CAP,S 1200P-50 KB
C791	87-010-405-080		CAP,E 10-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C793	87-010-178-080		C-CAP,S 1000P-50 KB
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 KR
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-180-080		C-CAP,S 1500P-50 KB<HR>
C797	87-010-182-080		C-CAP,S 2200P-50 KB<EXCEPT HR>
C798	87-010-180-080		C-CAP,S 1500P-50 KB<HR>
C798	87-010-182-080		C-CAP,S 2200P-50 KB<EXCEPT HR>
C799	87-010-194-080		C-CAP,S 0.047-25 ZF
C812	87-010-197-080		C-CAP,S 0.01-25 KB
C814	87-010-197-080		C-CAP,S 0.01-25 KB
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 KB
C822	87-010-197-080		C-CAP,S 0.01-25 KB
C823	87-010-197-080		C-CAP,S 0.01-25 KB
C828	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C829	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C940	87-010-197-080		C-CAP,S 0.01-25 KB<HR>
C941	87-010-314-080		C-CAP,S 22P-50 J CH<HR>
C943	87-010-197-080		C-CAP,S 0.01-25 KB<HR>
C944	87-014-051-080		CAP,PP 560P-100 J<HR>
C945	87-010-197-080		C-CAP,S 0.01-25 KB<HR>
C947	87-010-197-080		C-CAP,S 0.01-25 KB<HR>
C950	87-014-073-080		CAP,PP 4700P-100 J<HR>
C952	87-010-197-080		C-CAP,S 0.01-25 KB<HR>
C953	87-010-197-080		C-CAP,S 0.01-25 KB<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>
C959	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C960	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C961	87-010-152-080		C-CAP,S 8P-50 D CH<EXCEPT HR>
C962	87-010-401-080		CAP,E 1-50 M SME<HR>
CF801	87-008-261-010		FLTR,CFSFE10.7MA5
CF802	87-008-261-010		FLTR,CFSFE10.7MA5
FC602	88-906-241-110		FF-CABLE, 6P 1.25
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM
J252	87-A60-024-010		JACK,DIA6.3 BLK ST W/SW KM
J253	87-099-474-010		JACK,PIN 3P BLK W/SW
J254	87-A60-238-010		TERMINAL,SP 4P(MSC)
J601	87-A60-330-010		JACK,PIN 6P YKC21-3174<U>
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835<LH,HR>
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1UH K ML
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)<EXCEPT HR>
L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HR>
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<HR>
L791	87-003-293-010		COIL,TRAP MPX<EXCEPT HR>
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<HR>
L792	87-003-293-010		COIL,TRAP MPX<EXCEPT HR>
L832	87-005-847-080		COIL,2.2UH K CECS
L941	87-A50-022-010		COIL,ANT SW(COI) 7.96MHZ<HR>
L942	87-A50-173-010		COIL,OSC SW-N(COI)<HR>
L943	87-005-372-080		COIL,1MH K LAL03<HR>
L944	87-A50-159-010		COIL,10MH K C2B<HR>
L981	86-NF4-666-010		COIL,AM PACK 3(TOK)<HR>
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)<EXCEPT HR>
⚠ PR201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
⚠ PR202	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
R123	87-022-200-080		RES,M/F 0.56-1W J<U>
R231	87-A00-262-080		RES,M/F 0.15-2W J
R232	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L
SFR301	87-024-435-080		SFR,33K H RH063MC
SFR302	87-024-435-080		SFR,33K H RH063MC
SFR303	87-024-435-080		SFR,33K H RH063MC
SFR304	87-024-435-080		SFR,33K H RH063MC
SFR305	87-024-436-080		SFR,47K H RH063MC
SFR306	87-024-436-080		SFR,47K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9VCT51<HR>
TC942	87-011-221-080		TRIMMER,CER 30P 6.15X5.9VCT51<HR>
TH201	87-A90-221-080		C-THMS,100K<LH,HR>
TH202	87-A90-221-080		C-THMS,100K<LH,HR>
W1	85-NF5-628-010		F-CABLE,7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CER 450.0KHZ BFU C<HR>

FRONT C.B

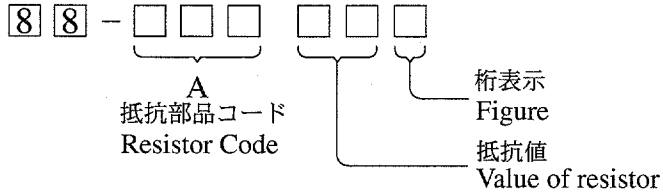
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-010-198-080		C-CAP,S 0.022-25 KB
C102	87-010-198-080		C-CAP,S 0.022-25 KB
C103	87-010-197-080		C-CAP,S 0.01-25 KB
C104	87-010-312-080		C-CAP,S 15P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH
C106	87-010-320-080		C-CAP,S 68P-50 J CH
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C108	87-010-405-040		CAP,E 10-50 M SME
C109	87-010-494-040		CAP,E 1-50 5L SRE
C110	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C111	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C112	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C113	87-A10-189-040		CAP,E 220-10 M
C114	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C115	87-010-178-080		C-CAP,S 1000P-50 KB
C116	87-010-494-040		CAP,E 1-50 5L SRE
C117	87-010-555-040		CAP,E 100-10 5L SRE
C118	87-010-194-080		C-CAP,S 0.047-25 ZF
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 ZF
C123	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C124	87-018-209-080		CAP,TC U 0.1-50 ZF UP050
C125	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C127	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C130	87-010-178-080		C-CAP,S 1000P-50 KB<HR>
C130	87-018-131-010		CAP,TC U 1000P-50 K<EXCEPT HR>
C201	87-010-196-080		C-CAP,S 0.1-25 ZF 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 ZF C2012
C353	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C354	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C355	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C356	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C357	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C403	87-010-992-080		C-CAP,S 0.047-25 KB MK212
C404	87-010-992-080		C-CAP,S 0.047-25 KB MK212
C405	87-010-401-040		CAP,E 1-50 M SME
C406	87-010-494-040		CAP,E 1-50 5L SRE
C407	87-010-184-080		C-CAP,S 3300P-50 KB
C408	87-010-184-080		C-CAP,S 3300P-50 KBB
C409	87-010-592-080		C-CAP,S 0.022-16 KR GRM
C410	87-010-592-080		C-CAP,S 0.022-16 KR GRM
C411	87-A10-201-080		C-CAP,S 0.33-16 KB
C412	87-A10-201-080		C-CAP,S 0.33-16 KB
C413	87-010-196-080		C-CAP,S 0.1-25 ZF 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 ZF C2012

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C417	87-016-081-080		C-CAP,S 0.1-16 KR
C418	87-010-405-040		CAP,E 10-50 M SME
C501	87-010-319-080		C-CAP,S 56P-50 J CH
C502	87-010-319-080		C-CAP,S 56P-50 J CH
C503	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C504	87-010-197-080		C-CAP,S 0.01-25 KB
C505	87-010-180-080		C-CAP,S 1500P-50 KB
C506	87-010-213-080		C-CAP,S 0.015-25 KB
C507	87-010-213-080		C-CAP,S 0.015-25 KB
C508	87-010-197-080		C-CAP,S 0.01-25 KB
C509	87-010-181-080		C-CAP,S 1800P-50 KB
C510	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C511	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C512	87-010-374-040		CAP,E 47-10 SME
C513	87-010-401-040		CAP,E 1-50 M SME
C514	87-010-401-040		CAP,E 1-50 M SME
C515	87-010-183-080		C-CAP,S 2700P-50 KB
C516	87-010-183-080		C-CAP,S 2700P-50 KB
C518	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C519	87-010-264-010		CAP,E 100-10 M 5L SR<HR>
C519	87-010-263-040		CAP,E 100-10 M SME<EXCEPT HR>
C533	87-010-545-040		CAP,E 0.22-50 M SME
C601	87-010-405-040		CAP,E 10-50 M SME
C602	87-010-186-080		C-CAP,S 4700P-50 KB
C603	87-010-405-040		CAP,E 10-50 M SME
C604	87-010-382-040		CAP,E 22-25 SME
C605	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C607	87-010-321-080		C-CAP,S 82P-50 J CH
C608	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C609	87-010-545-040		CAP,E 0.22-50 M SME
C611	87-010-177-080		C-CAP,S 820P-50 J SL
C614	87-010-248-040		CAP,E 220-10 M SME
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FC104	85-NF5-615-010		CABLE,FFC 15P-1.25
FC301	85-NF5-617-010		CABLE,FFC 6P-1.25
FC102	85-NF5-618-010		CABLE,FFC 13P-1.25
FL101	87-NF4-640-010		FL,BJ529GK
J601	87-A60-284-010		JACK,3.5MO(MSC)
J602	87-A60-284-010		JACK,3.5MO(MSC)
L501	87-005-448-080		COIL,220UH K FLR50
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
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
S300	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S319	87-A90-095-080		SW,TACT EVQ11G04M
S320	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S339	87-A90-095-080		SW,TACT EVQ11G04M<HR>
S340	87-A90-095-080		SW,TACT EVQ11G04M<HR>
S341	87-A90-095-080		SW,TACT EVQ11G04M
SW101	87-A90-471-010		SW,RTRY EC16B24304-25 NON
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
KEY C.B			
LED230	87-A40-317-080		LED,SLR-342VCT31 RED
LED231	87-A40-317-080		LED,SLR-342VCT31 RED
LED232	87-A40-317-080		LED,SLR-342VCT31 RED
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
FAN C.B			
C130	87-010-401-080		CAP,E 1-50 M SME
C131	87-010-263-080		CAP,E 100-10 SME
C132	87-010-380-080		CAP,E 47-16 M SME
RY103	87-A90-143-010		RELAY, DG12D2-OS(M)<U>
AC1 C.B			
⚠ F101	87-035-368-010		FUSE,4A 250V T<LH,HR>
⚠ F101	87-035-493-010		FUSE,8A 125V T 237<U>
⚠ F102	87-035-368-010		FUSE,4A 250V T<LH,HR>
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ FC1	87-033-213-080		FUSE CLAMP,PFC5000<U>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ FC2	87-033-213-080		FUSE CLAMP,PFC5000<U>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<LH,HR>
⚠ PT101	87-NF4-631-010		PT,7NF-4 HR<HR>
⚠ PT101	87-NF4-632-010		PT,7NF-4 LH<LH>
⚠ PT101	87-NF4-630-010		PT,7NF-4 U<U>
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH,HR>
⚠ T1	87-A60-317-010		TERMINAL,1P MSC
⚠ T2	87-A60-317-010		TERMINAL,1P MSC
AC2 C.B			
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
⚠ PR5	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
⚠ PR6	87-026-691-080		FUSE,10A 125V 251<U>

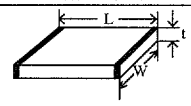
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH,HR>
DECK C.B			
CON502	87-099-756-010		CONN,15P 9604S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY,27
SOL2	82-ZM1-618-310		SOL ASSY,27
SW1	87-036-110-010		SW,MICRO SPPB62
SW2	87-036-110-010		SW,MICRO SPPB62
SW3	87-036-110-010		SW,MICRO SPPB62
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM3-601-010		RBN-CORD,4P-75
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX I
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX I
CON351	83-NEG-608-010		CONN ASSY,8P-RPB

○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



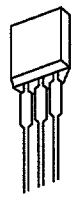
チップ抵抗
Chip resistor

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

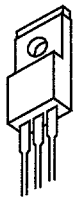
KTA1266
KTC3198

CSD1489
CSB1058

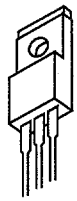


2SA933

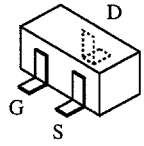
C2N5401



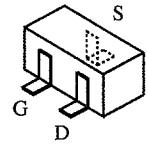
2SB1370
FN1016
FP1016



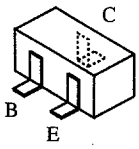
2SK2723



2SK2158

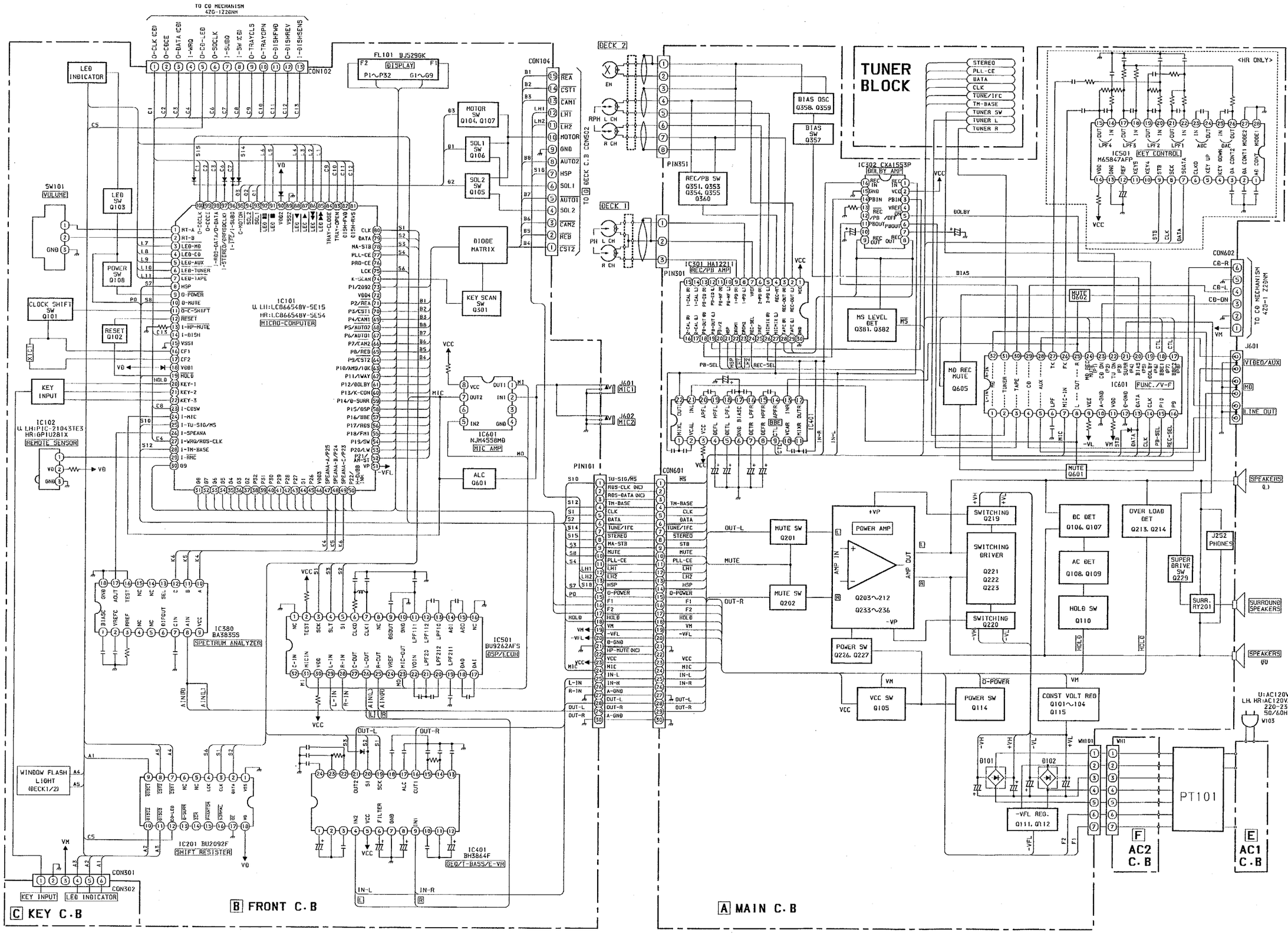


2SK543

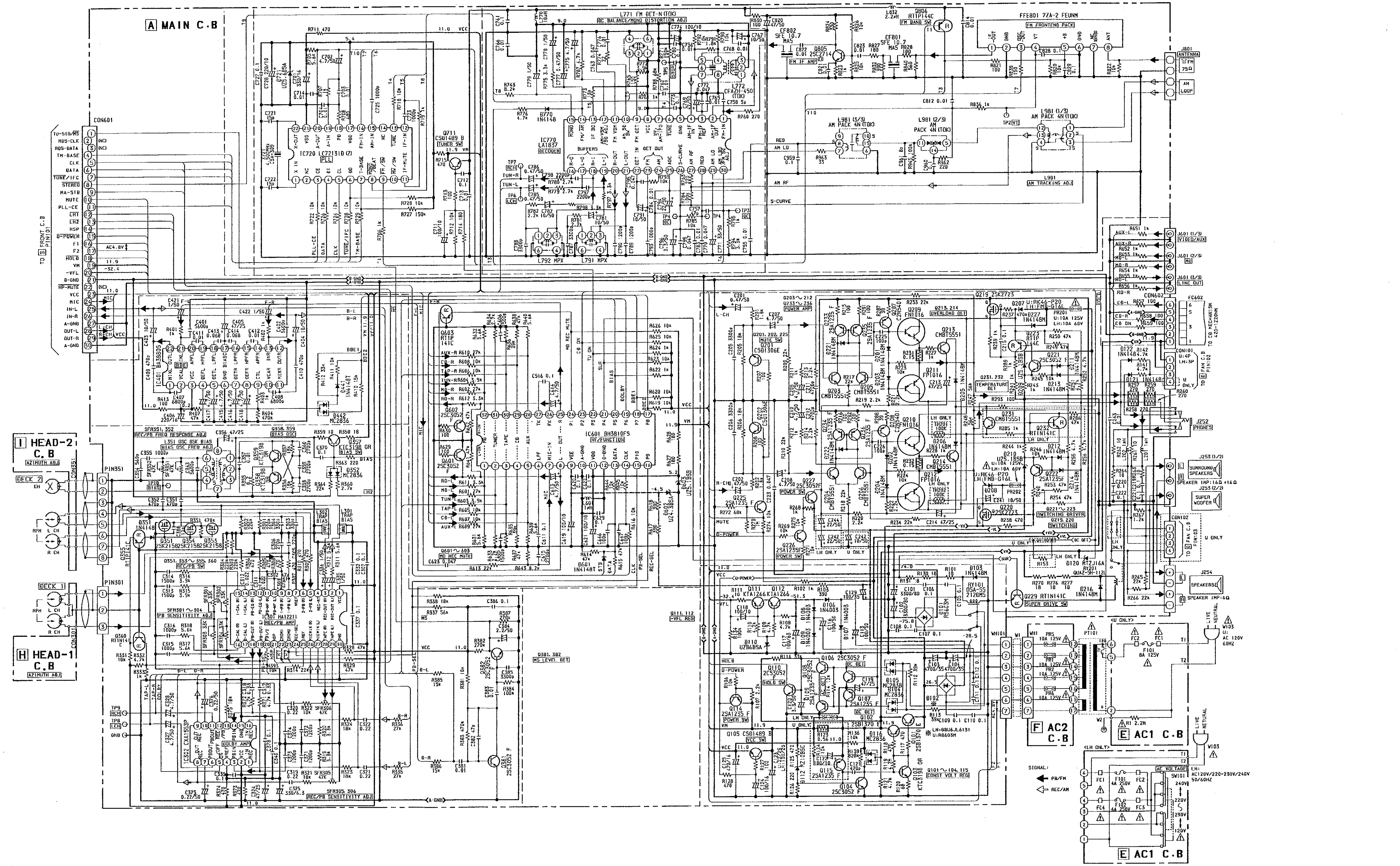


2SA1235
2SC2714
2SC3052
CMBT5551
CSA1362
CSD1306
DTA144EK
RN1410
RT1N141C
RT1N144C
RT1P141C
RT1P144C

BLOCK DIAGRAM (MAIN / FRONT)

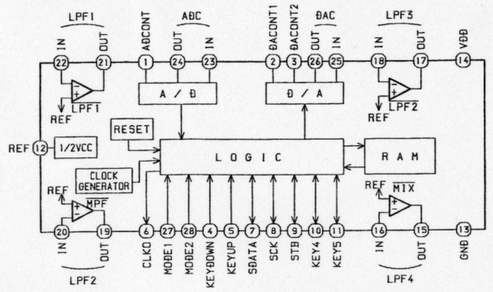


SCHEMATIC DIAGRAM – 1 (MAIN : U, LH)

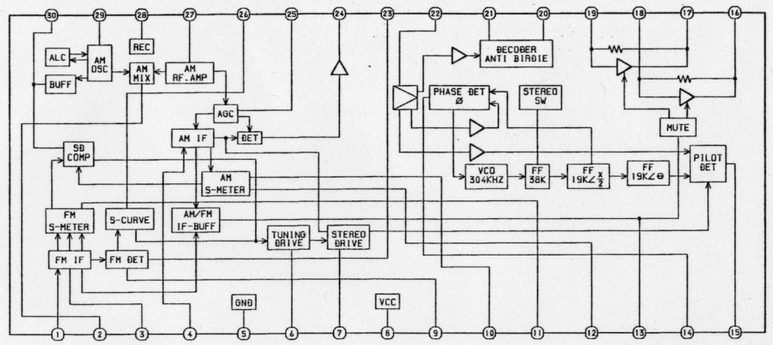


IC BLOCK DIAGRAM – 1

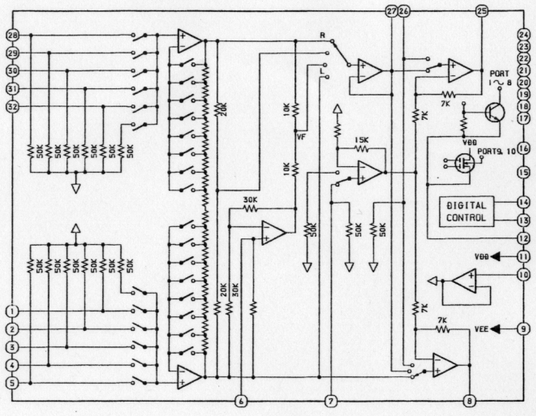
IC, M65847AFP <HR ONLY>



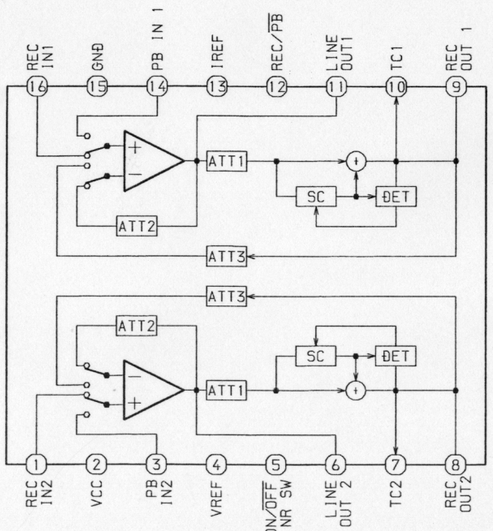
IC, LA1837



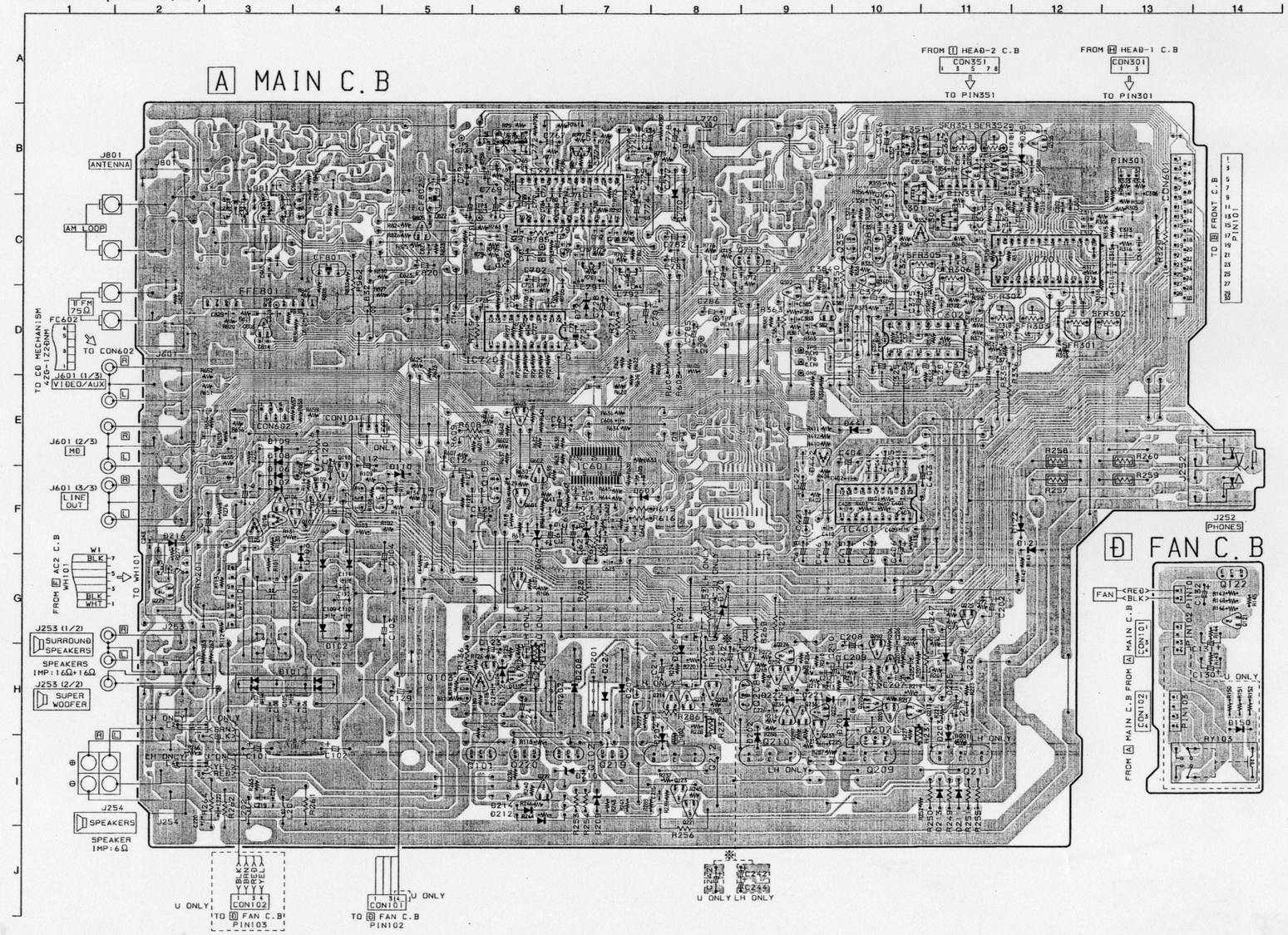
IC, BH3810FS



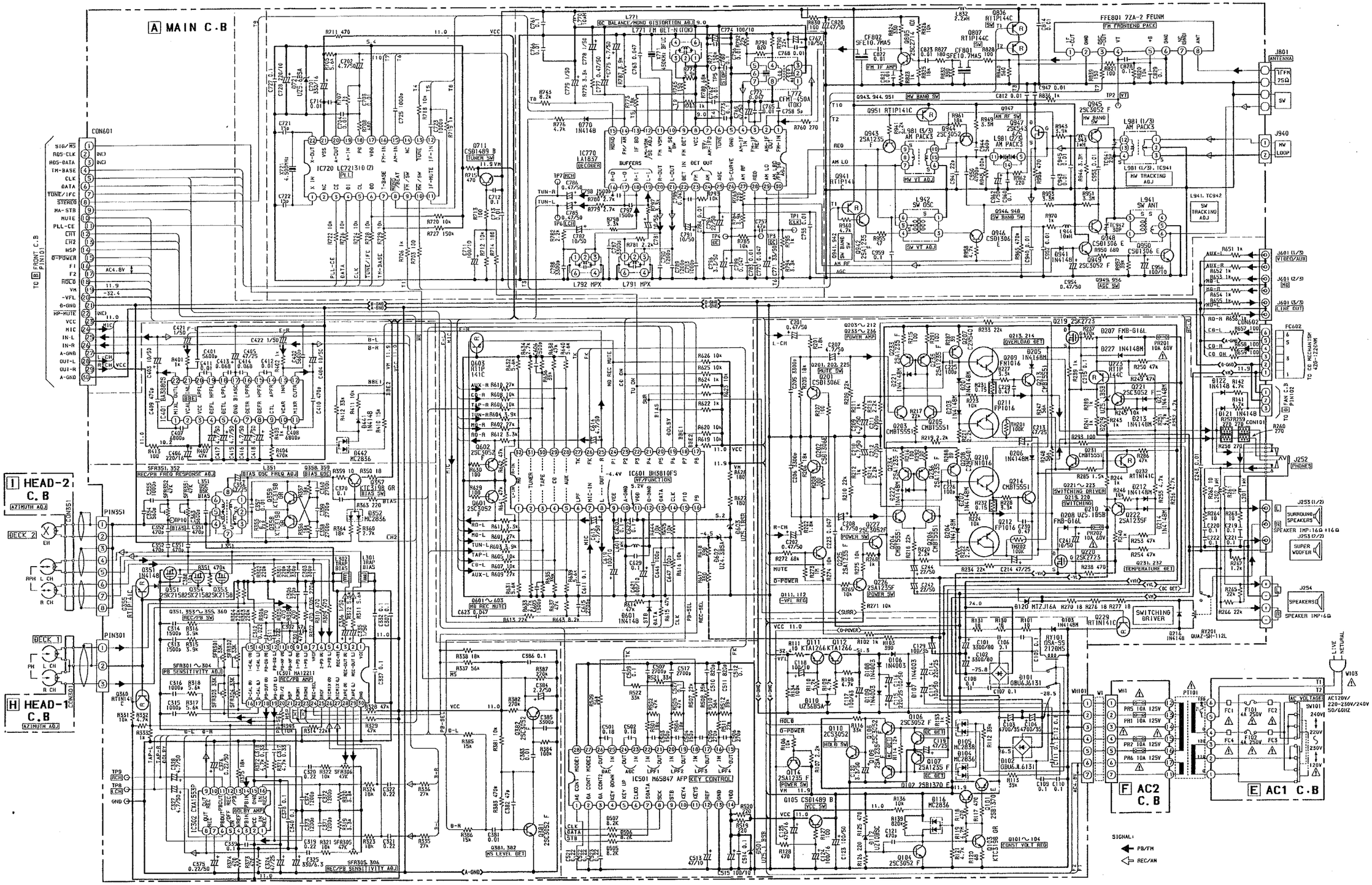
IC, CXA1553P

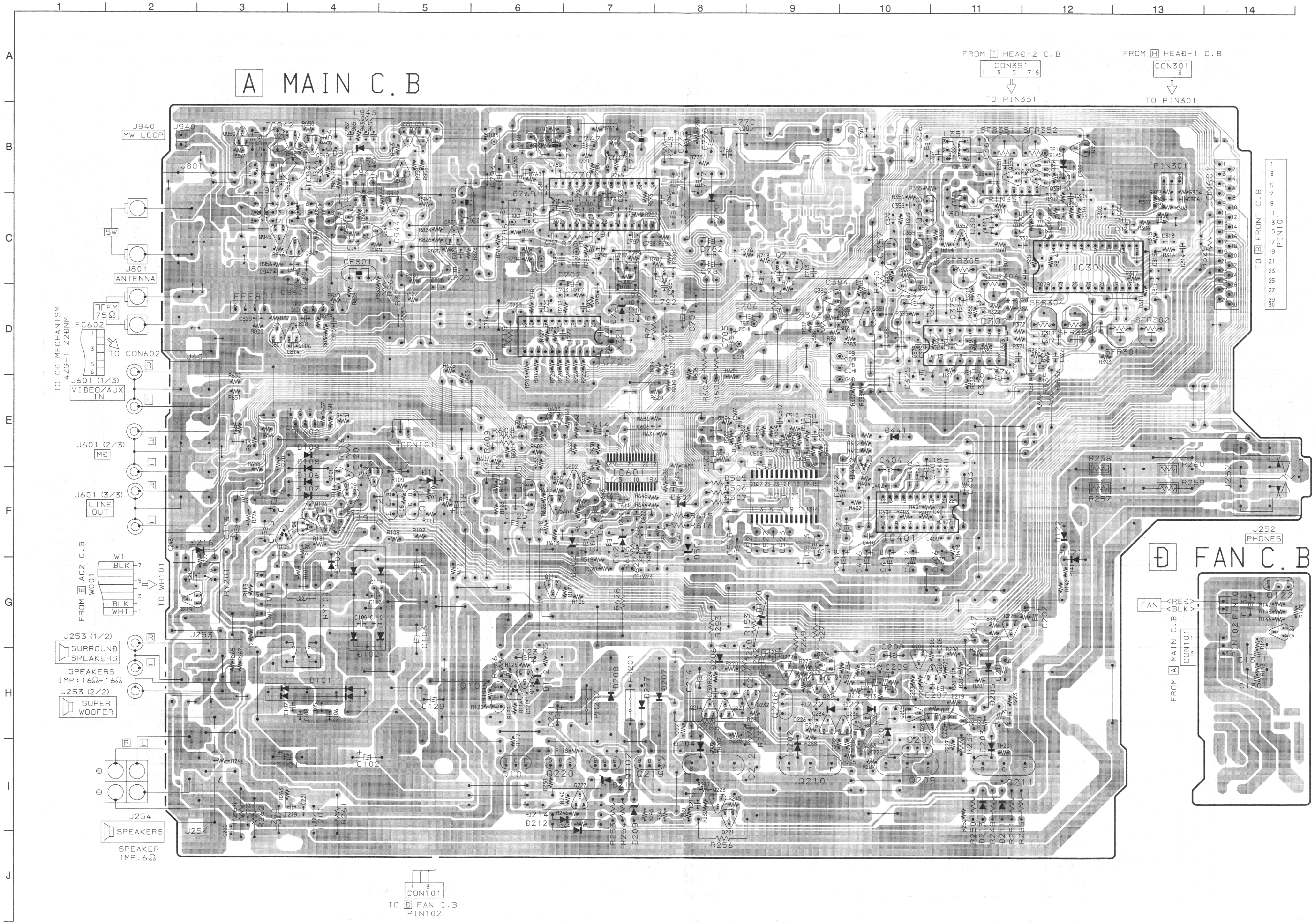


WIRING – 1 (MAIN : U, LH)

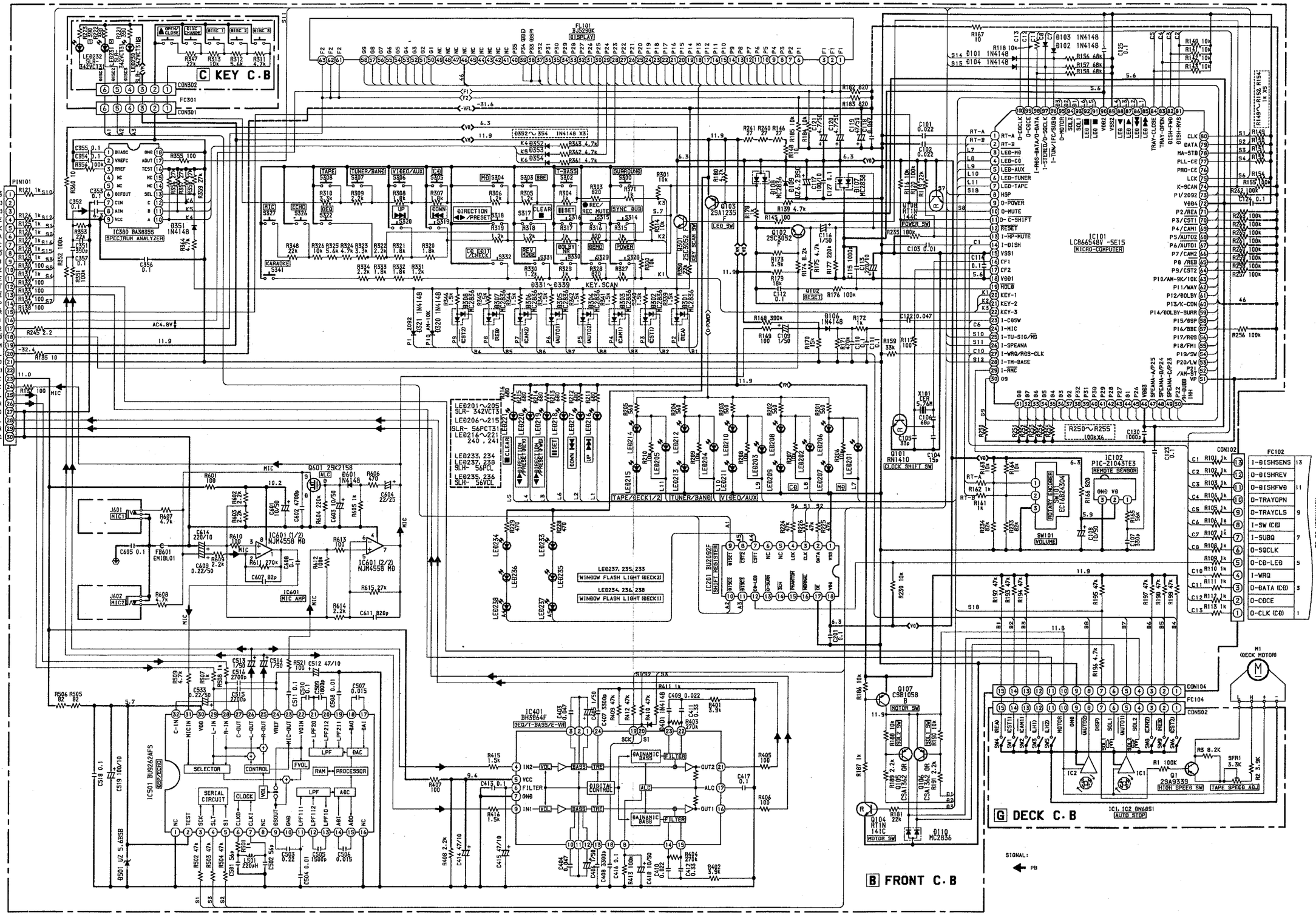


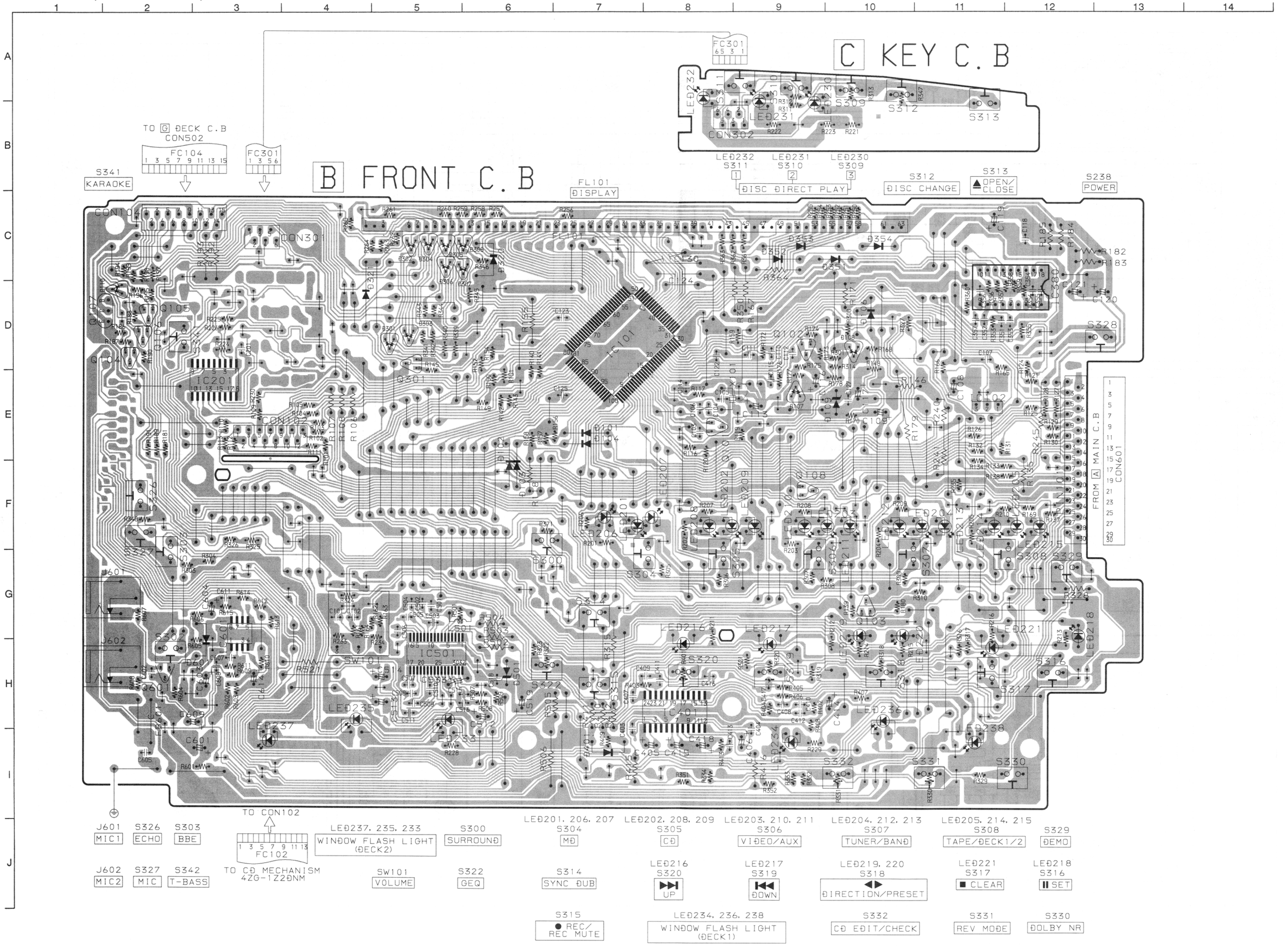
SCHEMATIC DIAGRAM – 2 (MAIN : HR)



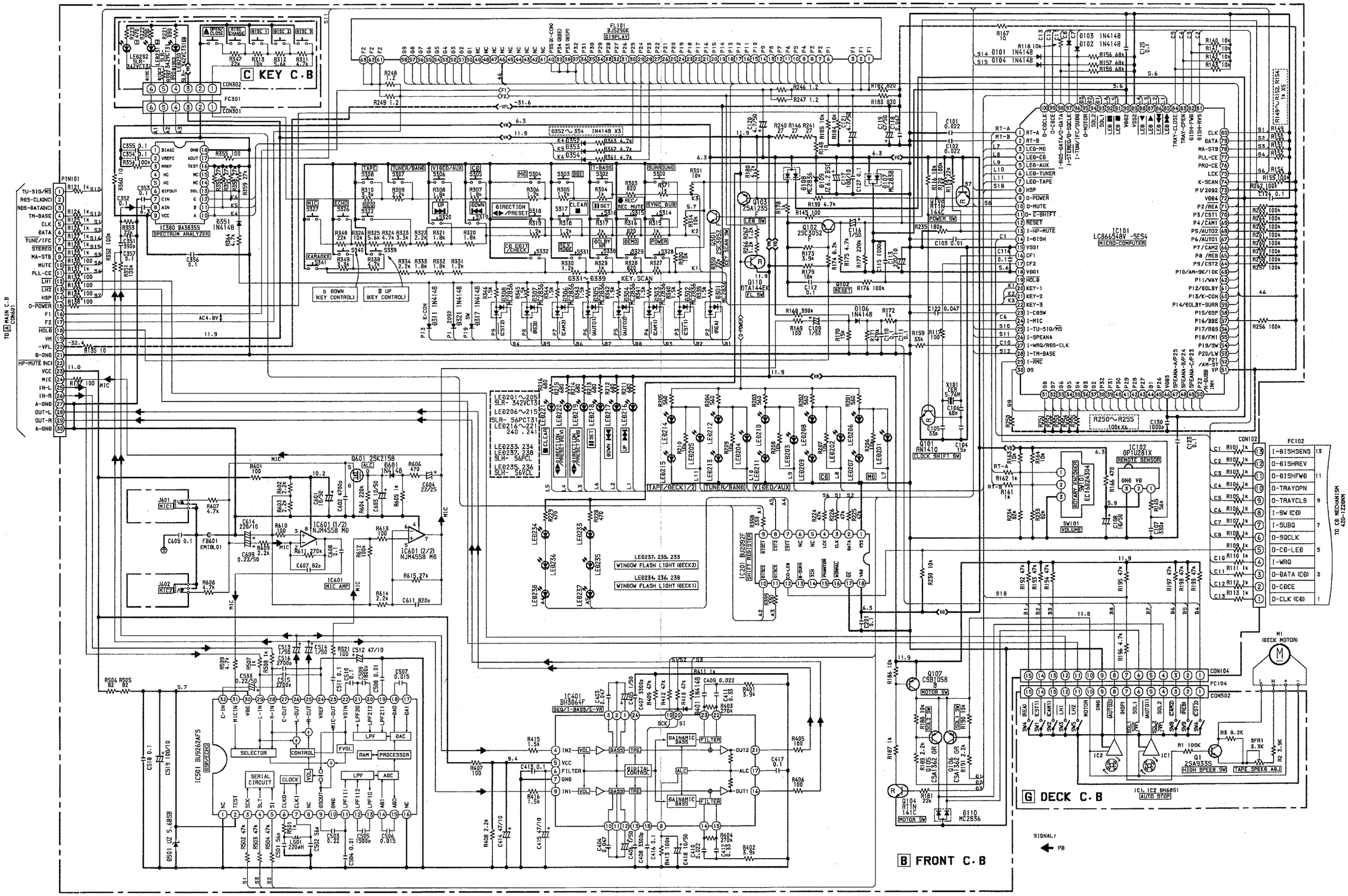

A MAIN C.B
FROM I HEAD-2 C.B
CON351
TO PIN351
FROM H HEAD-1 C.B
CON301
TO PIN301
J940
MW LOOP
SW
J801
ANTENNA
FM 75Ω
FC602
TO CD MECHANISM 4ZG-1 Z2DNM
TO CON602
J601 (1/3)
VIDEO/AUX IN
J601 (2/3)
MD
J601 (3/3)
LINE OUT
FROM E AC2 C.B W001
TO WH101
J253 (1/2)
SURROUND SPEAKERS
SPEAKERS IMP: 16Ω+16Ω
J253 (2/2)
SUPER WOOFER
J254
SPEAKERS
SPEAKER IMP: 6Ω
CON101
TO D FAN C.B PIN102
TO B FRONT C.B PIN101
J252
PHONES
D FAN C.B
FAN
RED
BLK
FROM A MAIN C.B CON101

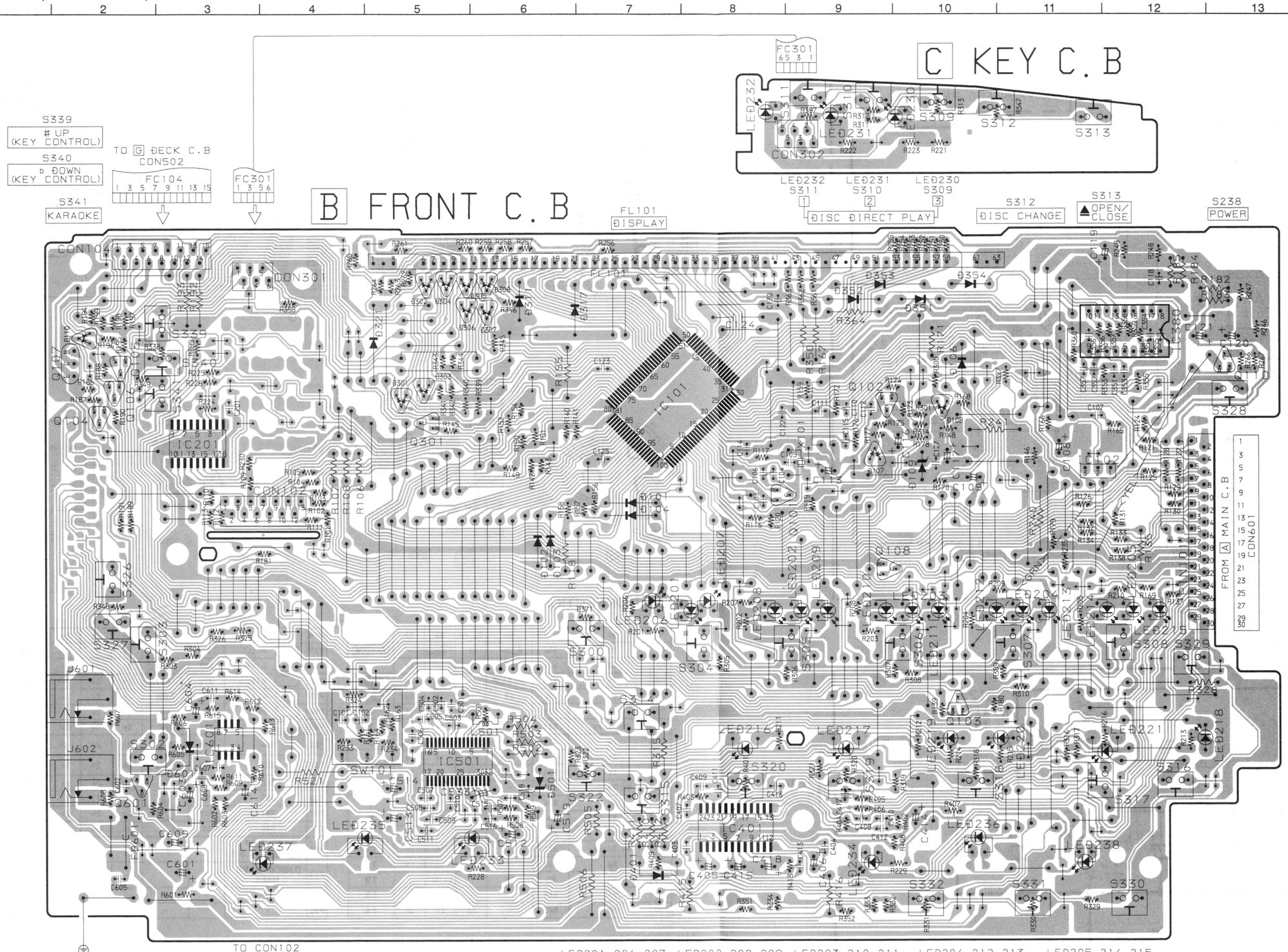
CHEMATIC DIAGRAM – 3 (FRONT : U, LH)



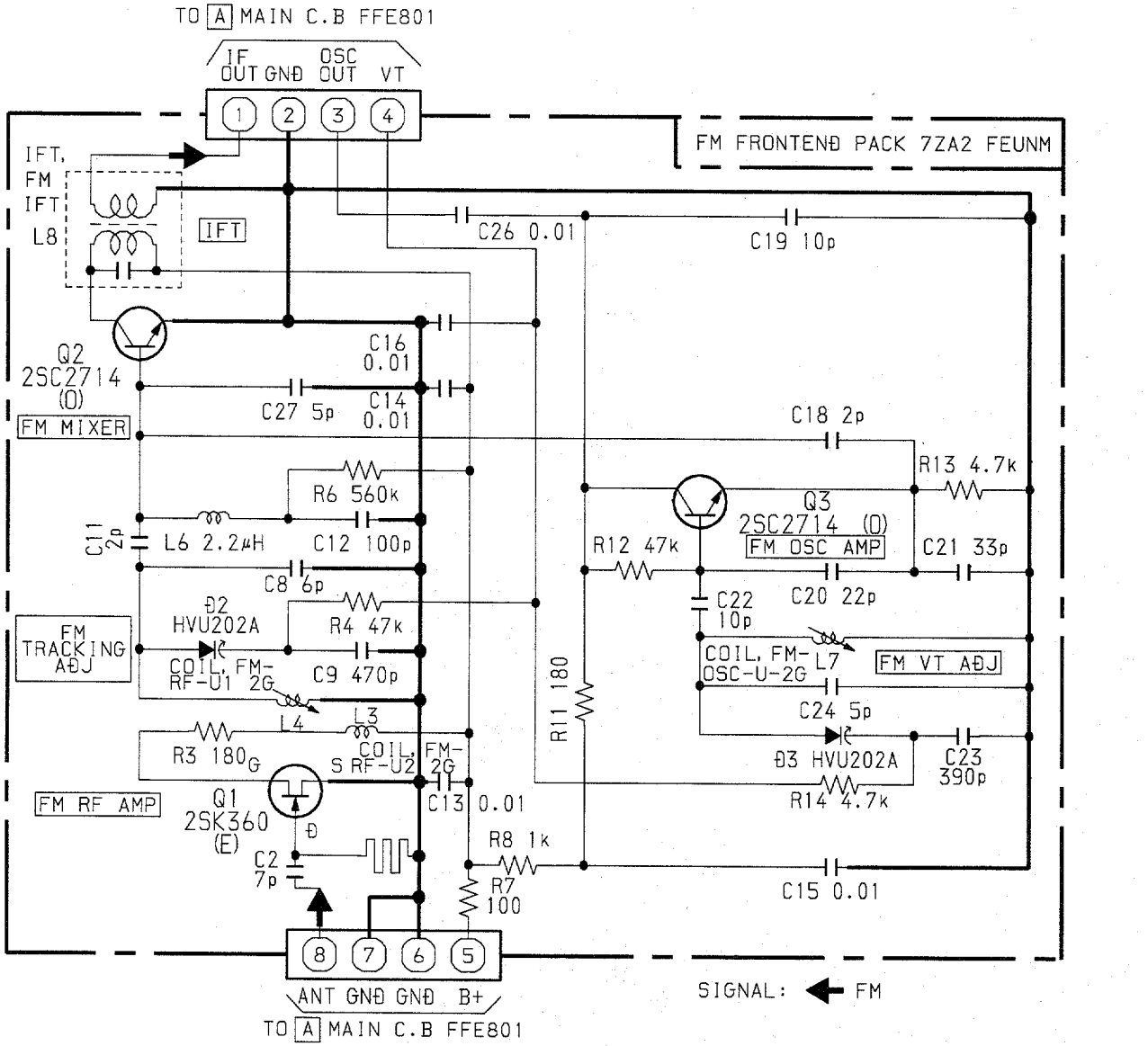

C KEY C.B
B FRONT C.B
TO G DECK C.B CON502
FC104
FC301
FC301
S341 KARAOKE
FL101 DISPLAY
LED232 S311
LED231 S310
LED230 S309
DISC DIRECT PLAY
S312 DISC CHANGE
S313 OPEN/CLOSE
S238 POWER
CON1041
CON301
CON1021
CON302
FL101
IC201
IC501
IC401
IC101
IC380
Q105
Q104
Q301
Q102
Q103
Q108
Q601
SW101
J601
J602
S326 ECHO
S303 BBE
S327
S342 T-BASS
TO CON102
FC102
TO CD MECHANISM 4ZG-1Z2DNM
LED237, 235, 233 WINDOW FLASH LIGHT (DECK2)
S300 SURROUND
S322 GEQ
SW101 VOLUME
LED201, 206, 207 S304 MD
S314 SYNC DUB
S315 REC/REC MUTE
LED202, 208, 209 S305 CD
LED216 S320 UP
LED217 S319 DOWN
LED234, 236, 238 WINDOW FLASH LIGHT (DECK1)
LED203, 210, 211 S306 VIDEO/AUX
LED204, 212, 213 S307 TUNER/BAND
LED219, 220 S318 DIRECTION/PRESET
S332 CD EDIT/CHECK
LED205, 214, 215 S308 TAPE/DECK1/2
S329 DEMO
LED221 S317 CLEAR
LED218 S316 SET
S331 REV MODE
S330 DOLBY NR
FROM A MAIN C.B CON601

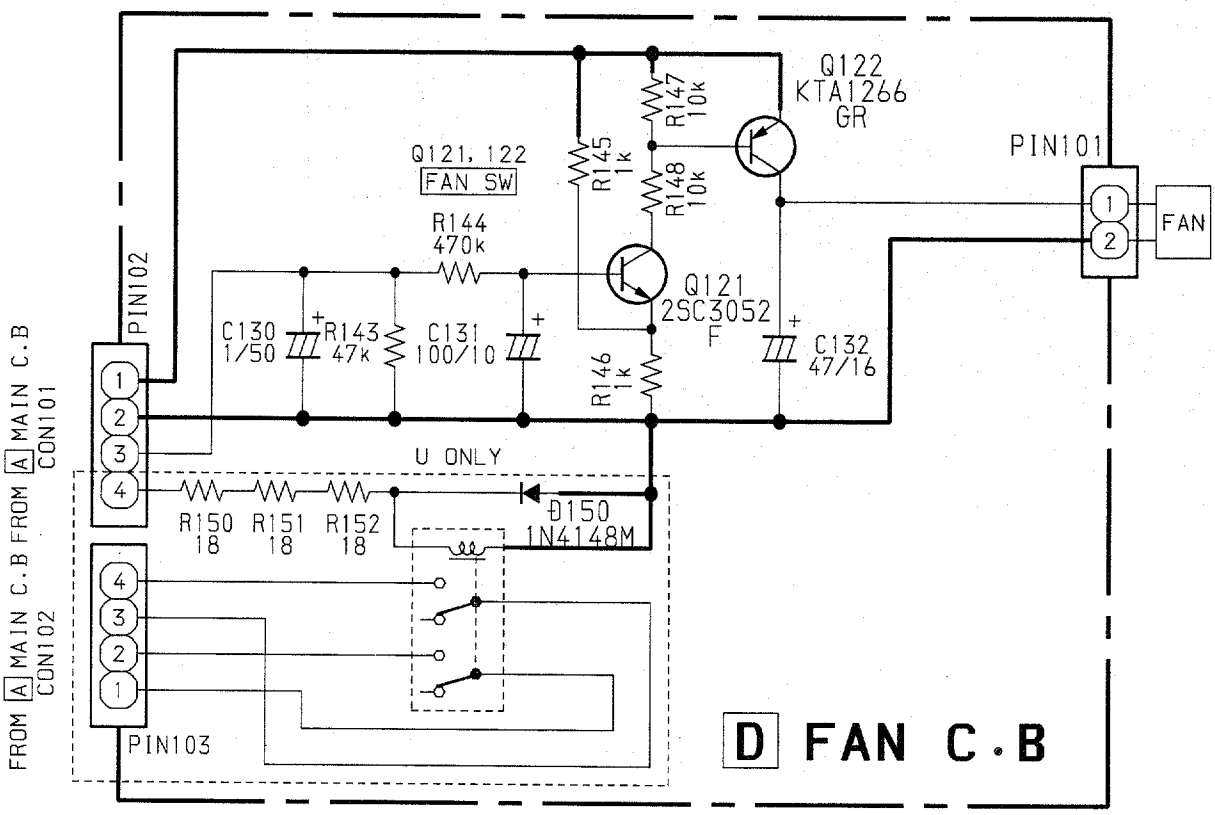
SCHEMATIC DIAGRAM – 4 (FRONT : HR)




C KEY C.B
B FRONT C.B
S339 # UP (KEY CONTROL)
S340 ♭ DOWN (KEY CONTROL)
S341 KARAOKE
TO G DECK C.B CON502
FC104
FC301
FC301
LED232 S311
LED231 S310
LED230 S309
S312
S313
CON302
LED232 S311 1
LED231 S310 2
LED230 S309 3
DISC DIRECT PLAY
FL101 DISPLAY
S312 DISC CHANGE
S313 OPEN/CLOSE
S238 POWER
CON104
CON301
IC201
IC501
IC101
IC102
IC389
IC40
CON101
CON601
FROM A MAIN C.B
J601
J602
TO CON102
FC102
TO CD MECHANISM 4ZG-1Z20NM
J601 MIC1
S326 ECHO
S303 BBE
J602 MIC2
S327 MIC
S342 T-BASS
LED237, 235, 233 WINDOW FLASH LIGHT (DECK2)
SW101 VOLUME
S300 SURROUND
S322 GEQ
LED201, 206, 207 S304 MD
S314 SYNC DUB
S315 ● REC/ REC MUTE
LED202, 208, 209 S305 CD
LED216 S320 ▶▶ UP
LED234, 236, 238 WINDOW FLASH LIGHT (DECK1)
LED203, 210, 211 S306 VIDEO/AUX
LED217 S319 ◀◀ DOWN
LED204, 212, 213 S307 TUNER/BAND
LED219, 220 S318 ◀▶ DIRECTION/PRESET
S332 CD EDIT/CHECK
LED205, 214, 215 S308 TAPE/DECK1/2
LED221 S317 ■ CLEAR
S331 REV MODE
S329 DEMO
LED218 S316 ❚❚ SET
S330 DOLBY NR

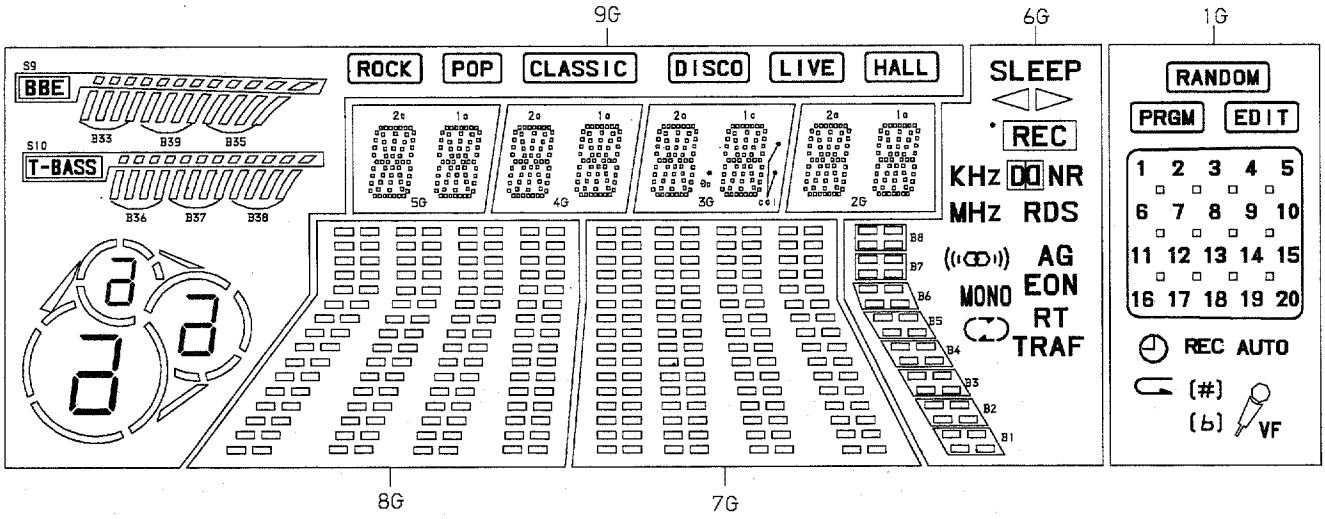
SCHEMATIC DIAGRAM – 5 (TUNER FRONTEND / FAN)

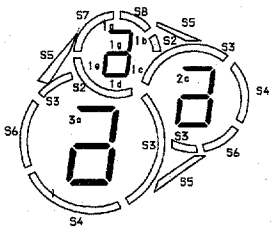


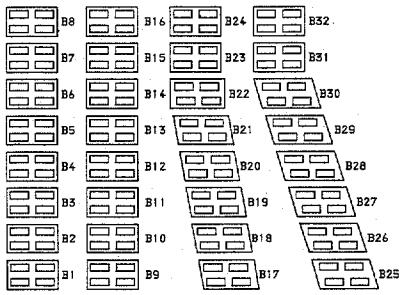


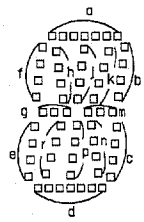
FL (BJ529GK) GRID ASSIGNMENT / ANODE CONNECTION

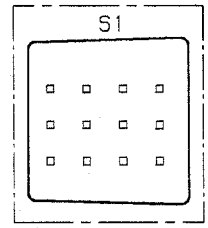
GRID ASSIGNMENT




(9G)


(8G, 7G)


(5G ~ 2G)



(1B)

ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	COL (DOWN)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	COL (UP)	-	12
P17	S7	B28	-	-	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	( ) (♭)
P32	ROCK POP CLASSIC S10	B1	B1	-	-	-	S1
P33	DISCO LIVE HALL	-	-	-	-	-	-
P34	S9	-	-	-	-	-	-
P35	-	-	-	-	-	-	♭ ♯

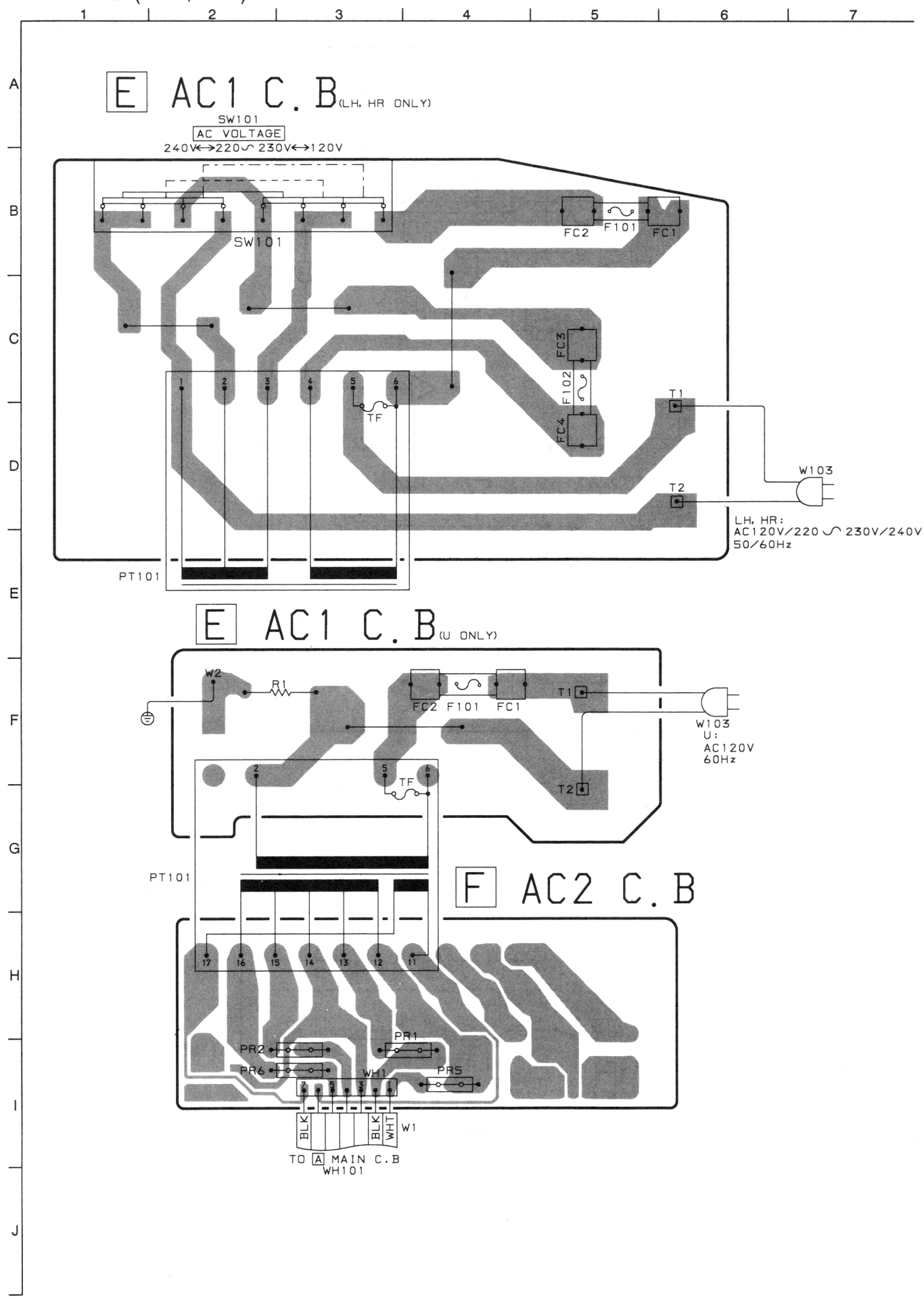
PIN CONNECTION

PIN NO.	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31
CONNECTION	F2	F2	F2	NP	NP	9G	8G	7G	6G	5G	4G	3G	2G	1G	NC	NC	NC	NC	NC	NC	NC	NC	NC	P35	P34	P33	P32	P31	P30	P29	P28	P27	P26

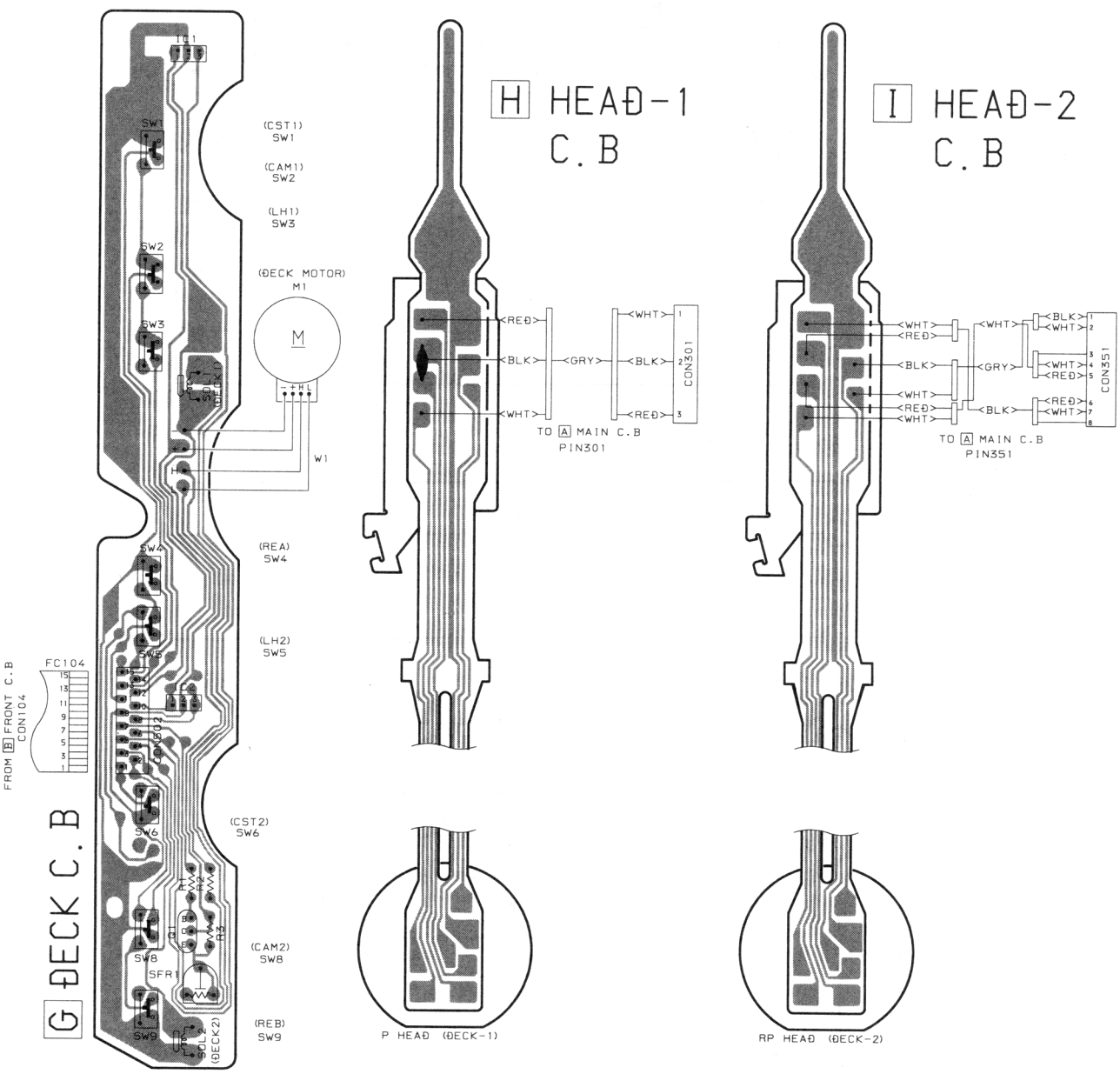
PIN NO.	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F1	F1	F1

NOTE 1) F1, F2------FILAMENT
2) NP---------NO PIN
3) NC---------NO CONNECTION
4) 1G~9G-----GRID

WIRING – 5 (AC1 / AC2)

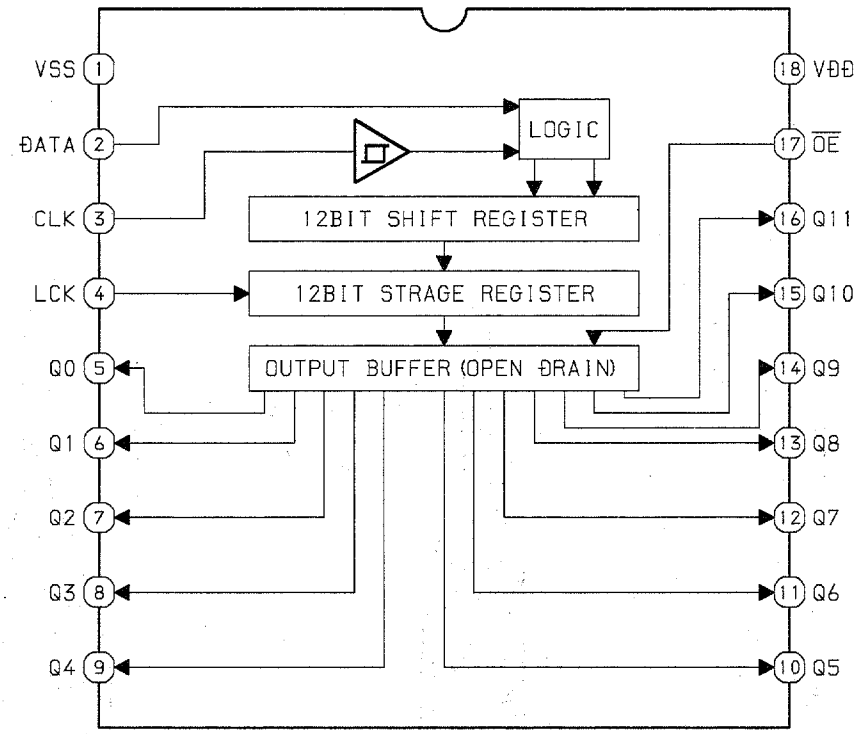


WIRING – 6 (DECK / HEAD)

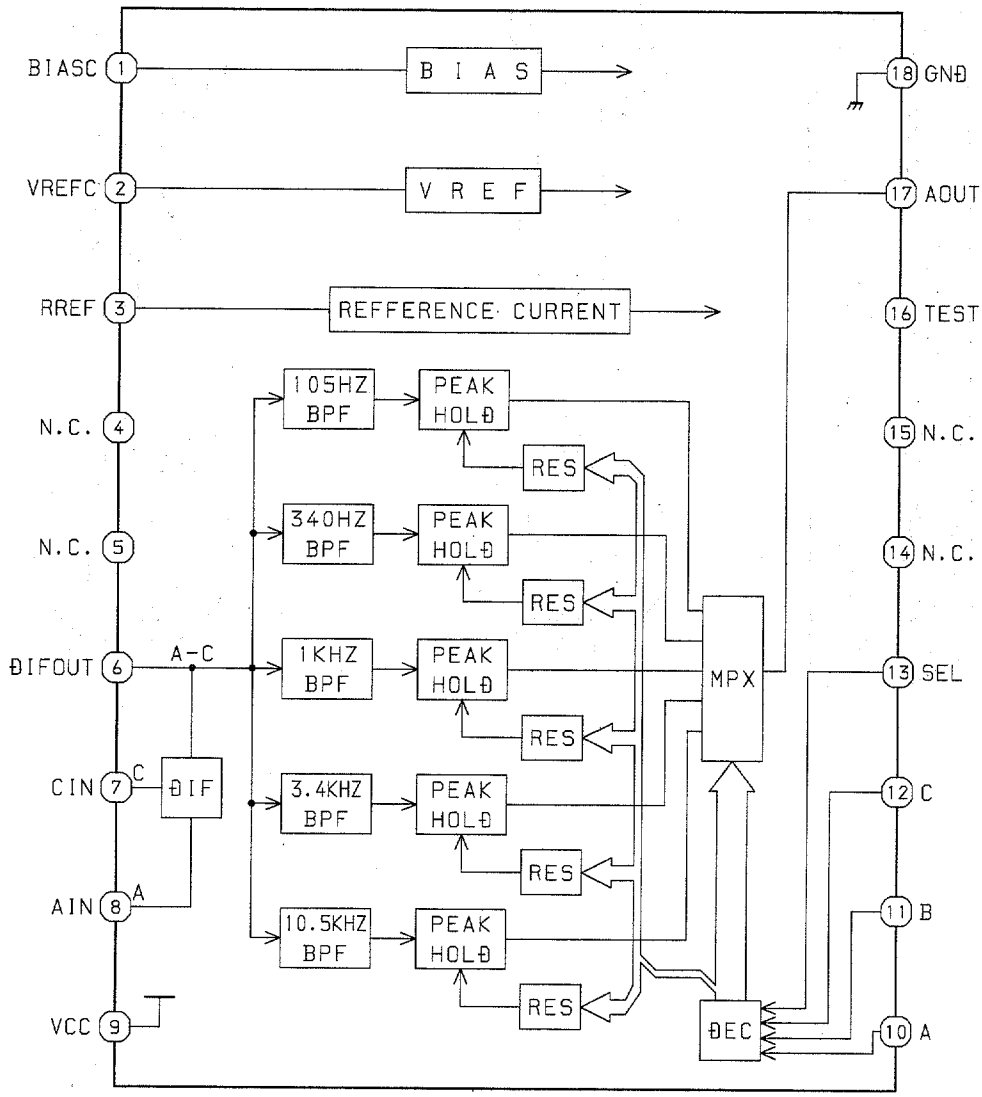


IC BLOCK DIAGRAM – 2

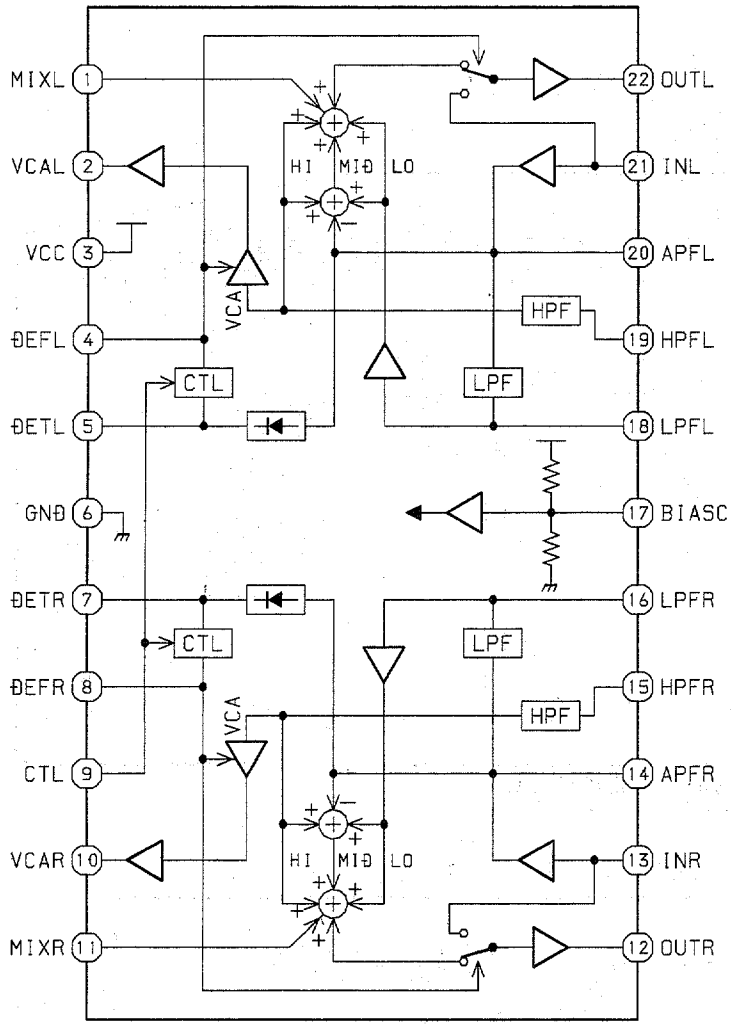
IC, BU2092F



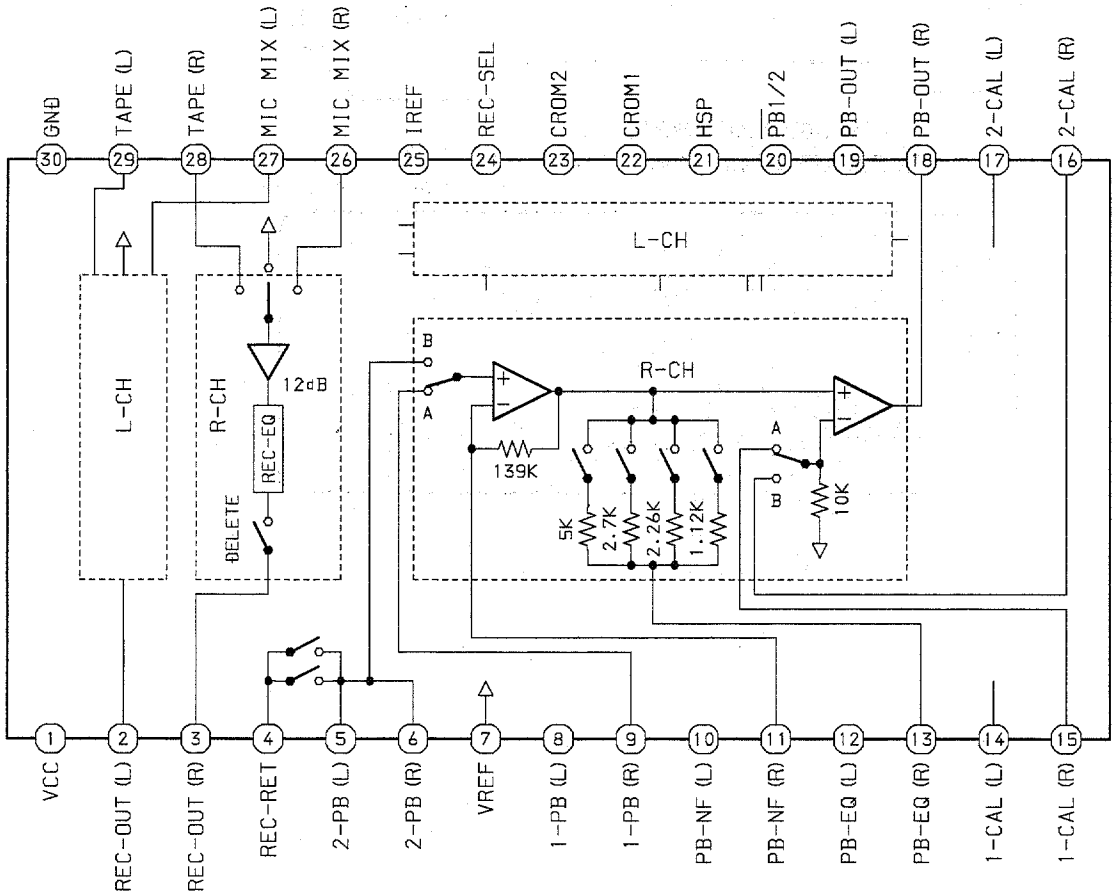
IC, BA3835S



IC, BA3880S



IC, HA12211



IC DESCRIPTION

IC, LC866548V

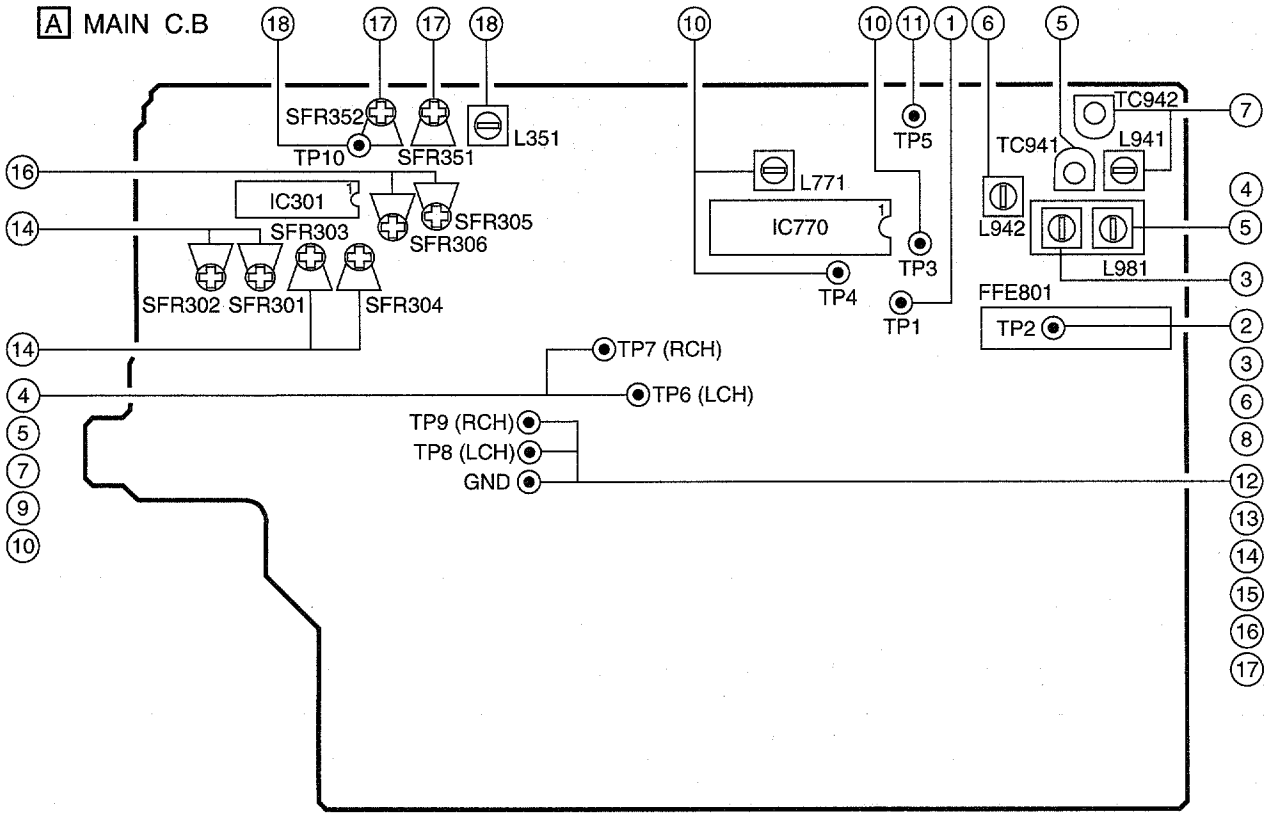
Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	$\overline{\text{LED-MD}}$	O	"MD" LED $\overline{\text{ON}}$/OFF output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED $\overline{\text{ON}}$/OFF output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED $\overline{\text{ON}}$/OFF 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	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
10	O-MUTE	O	System mute ON/$\overline{\text{OFF}}$ output.
11	O-$\overline{\text{CLK-SHIFT}}$	O	U-COM clock shift output.
12	$\overline{\text{RESET}}$	I	Reset input.
13	I-$\overline{\text{HP-MUTE}}$	–	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		
22	KEY-3		
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	O	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	O/I	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52	P21/AM-ST	O/I	FL segment P21 output / AM stereo input to diode.
53	P20/LW	O/I	FL segment P20 output / LW mode data input to diode.

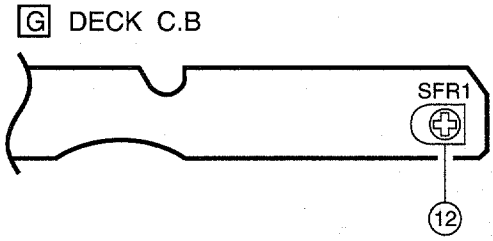
Pin No.	Pin Name	I/O	Description
54	P19/SW	O/I	FL segment P19 output / SW mode data input to diode.
55	P18/FM 1	O/I	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	O/I	FL segment P17 output / RDS data input to diode.
57	P16/BBE	O/I	FL segment P16 output / BBE data input to diode.
58	P15/DSP	O/I	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	O/I	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	O/I	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	O/I	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	O/I	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	O/I	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/$\overline{\text{CST 2}}$	O/I	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/$\overline{\text{REB}}$	O/I	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/$\overline{\text{CAM 2}}$	O/I	FL segment P7 output / DECK2 CAM switch data input.
67	P6/$\overline{\text{AUTO 1}}$	O/I	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/$\overline{\text{AUTO 2}}$	O/I	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/$\overline{\text{CAM 1}}$	O/I	FL segment P4 output / DECK1 CAM switch data input.
70	P3/$\overline{\text{CST 1}}$	O/I	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/$\overline{\text{REA}}$	O/I	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73	P1/2092	O/I	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FORNT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN,FORNT, PROLOGIC PWB.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	$\overline{\text{LED ▶▶}}$	O	▶▶ LED $\overline{\text{ON}}$/OFF output.
86	$\overline{\text{LED ◀◀}}$	O	◀◀ LED $\overline{\text{ON}}$/OFF output.
87	$\overline{\text{LED ▶}}$	O	▶ LED $\overline{\text{ON}}$/OFF output.
88	$\overline{\text{LED ◀}}$	O	◀ LED $\overline{\text{ON}}$/OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED ■}}$	O	■ LED $\overline{\text{ON}}$/OFF output.
92	$\overline{\text{LED II}}$	O	II LED $\overline{\text{ON}}$/OFF output.
93	SOL 1	O	DECK 1 Solenoid output.
94	SOL 2	O	DECK 2 Solenoid output.

Pin No.	Pin Name	I/O	Description
95	O-MOTOR	O	DECK MOTOR ON/$\overline{\text{OFF}}$ output.
96	I-$\overline{\text{TUNE}}$/IFC/SUBQ	I	Tune IF count serial data input /CD SUB Q data input.
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

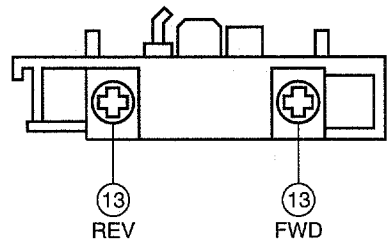
IC, LC72131D

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





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



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP1 (CLK)
   Method : Set to AM(MW) 1710kHz and check that the test point is 2160kHz ± 0.045kHz.

2. AM VT Check <U, LH>
   Settings : • Test point : TP2 (VT)
   Method : Set to AM 1710kHz and check that the test point is 6.0V ± 1.0V.

3. 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 becomes 8.5V ± 0.05V.
   Then set to MW 530kHz and check that the test point is more than 0.3V.

4. AM Tracking Adjustment <U, LH>
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • Adjustment location : L981
   Method : Set to AM 1000kHz and adjust L981 so that the test point becomes maximum.

5. MW Tracking Adjustment <HR>
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • 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.

6. 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 becomes 7.0V ± 0.05V.

7. SW Tracking Adjustment <HR>
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • 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.

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

9. FM Tracking Check
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is 2dB ± 6dB at distortion less than 3%.

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

11. FM Auto Stop Level Check
    Settings : • Test point : TP5 (STOP)
    Method : Set to FM 98.0 MHz and check for voltage low (about 0.01V). After that voltage high (about 7.0V) out by 2dB down.

< DECK SECTION >

12. Tape Speed Adjustment (DECK2)
    Settings : • Test tape : TTA–100
    • Test point : TP8 (Lch), TP9 (Rch)
    • Adjustment location : SFR1
    Method : Play back the test tape and adjust SFR1 so that the test point becomes 3000Hz ± 5Hz(FWD) and FWD PLAY speed ± 45Hz(REV).

13. Head Azimuth Adjustment (DECK1, DECK2)
    Settings : • Test tape : TTA–300
    • Test point : TP8 (Lch), TP9 (Rch)
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

14. PB Sensitivity Adjustment (DECK1, DECK2)
    Settings : • Test tape : TTA–200
    • Test point : TP8 (Lch), TP9 (Rch)
    • Adjustment location :
    SFR301 (DECK1, Lch)
    SFR302 (DECK1, Rch)
    SFR303 (DECK2, Lch)
    SFR304 (DECK2, Rch)
    Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV.

15. PB Frequency Response Check (DECK1, DECK2)
    Settings : • Test tape : TTA–300
    • Test point : TP8 (Lch), TP9 (Rch)
    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. REC/PB Sensitivity Adjustment (DECK2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • Input signal : 1kHz (LINE IN)
    • Adjustment location : SFR305 (Lch)
    SFR306 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV.
    Record and play back the 1kHz signals and adjust SFRs so that the output is 17mV ± 0.5dB.

17. REC/PB Frequency Response Adjustment (DECK2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • 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 level of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

18. Bias OSC Frequency Adjustment (DECK2)
    Settings : • Test point : TP10 (BIAS)
    • Adjustment location : L351
    Method : Set DECK2 to the record mode and adjust L351 so that the frequency at the test point is 85kHz ± 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	6dB ± 4dB
(THD 3%)	[at 87.5MHz]
	5dB ± 4dB
	[at 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	
	30dB ± 6dB
	[at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	(MONO) More than 65dB
	(STEREO) More than 64dB
	[at 98.0MHz]
Distortion :	(MONO) Less than 1.3%
(Input 54dB)	(STEREO) Less than 2.0%
	[at 98.0MHz]
Auto stop level :	25dB ± 10dB
	[at 98.0MHz]
Stereo separation :	More than 25dB
	[at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

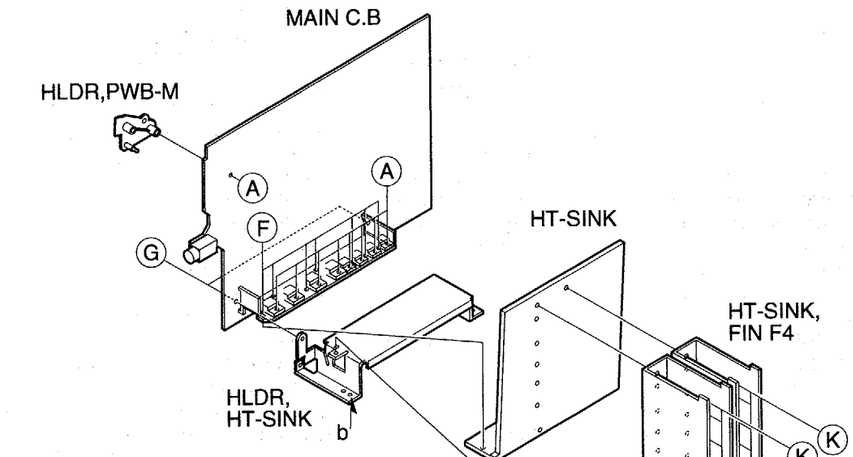
Sensitivity :	55dB ± 5dB
(S/N 20 dB)	[at 600kHz (U, LH)]
	[at 603kHz (HR)]
	53dB ± 5dB
	[at 1000 / 1400kHz (U, LH)]
	[at 999 / 1404kHz (HR)]
Signal to noise ratio :	More than 36dB
	[at 1000kHz (U, LH)]
	[at 999kHz (HR)]
Distortion :	Less than 1.5%
	[at 1000kHz (U, LH)]
	[at 999kHz (HR)]
Auto stop level :	50dB +10/–15dB
	[at 1000kHz (U, LH)]
	[at 999kHz (HR)]
Intermediate frequency :	450kHz

<SW SECTION> (HR only)

Sensitivity :	38dB ± 6dB [at 5.9MHz]
(S/N 20dB)	33dB ± 5dB [at 12.0MHz]
	30dB ± 8dB [at 17.9MHz]
Signal to noise ratio :	More than 34dB [at 12.0MHz]

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Pinch roller pressure :	270 ~ 330g (FWD, REV)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm (FWD)
	75 ~ 130g-cm (REW)
Back tension :	2 ~ 7g-cm (FWD, REV)
PB Output level :	330mV ± 1dB
REC/PB Output level :	180mV ± 2dB
Distortion (REC/PB) :	Less than 2.0% (NORMAL, CrO2)
Noise level (PB) :	Less than 1.8mV
	(DOLBY B NR OFF, NORMAL)
	Less than 1.2mV
	(DOLBY B NR ON, CrO2)
Noise level (REC/PB) :	Less than 2.2mV
	(DOLBY B NR OFF, NORMAL)
	Less than 1.5mV
	(DOLBY B NR ON, CrO2)
Crosstalk :	More than 60dB (1kHz, NORMAL)
Channel separation :	More than 30dB (1kHz, NORMAL)
Erasing ratio :	More than 60dB (at 125Hz, CrO2)
REC bias frequency :	85kHz
Test tape :	NORMAL : TTA–602
	CrO2 : TTA–615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F
G
HT-SINK
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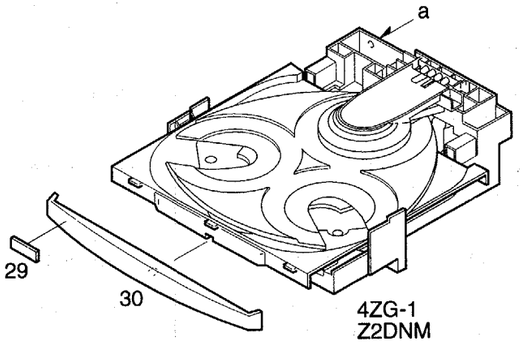
FIN F4
HLDR,
HT-SINK
b
K
K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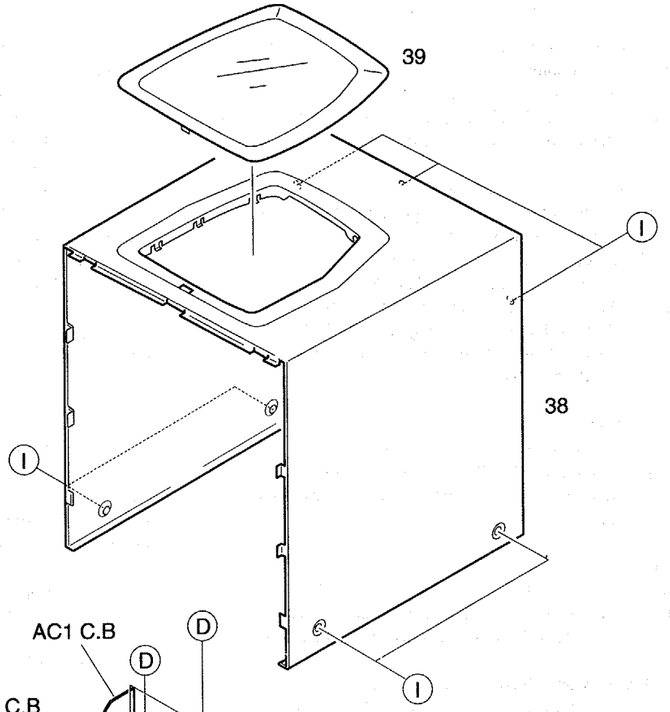
29
30
4ZG-1
Z2DNM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AC2 C.B
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WIRE
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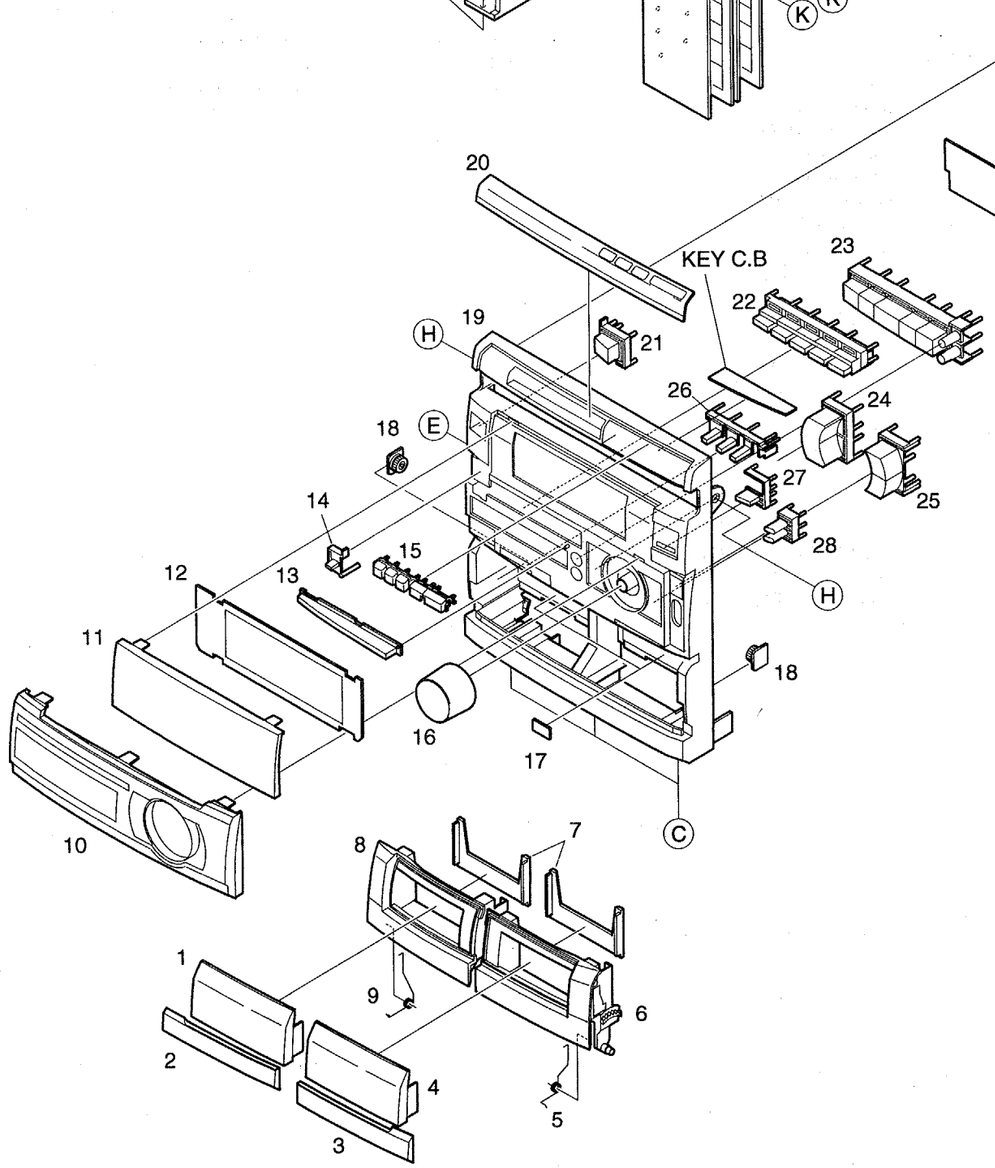
CHAS,MAIN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E
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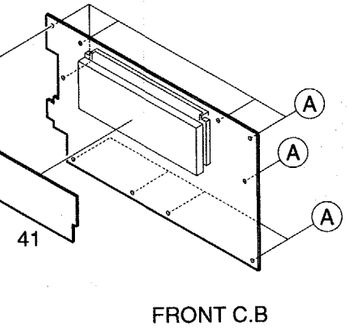
A
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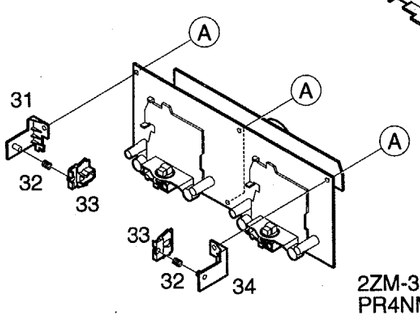
41
FRONT C.B

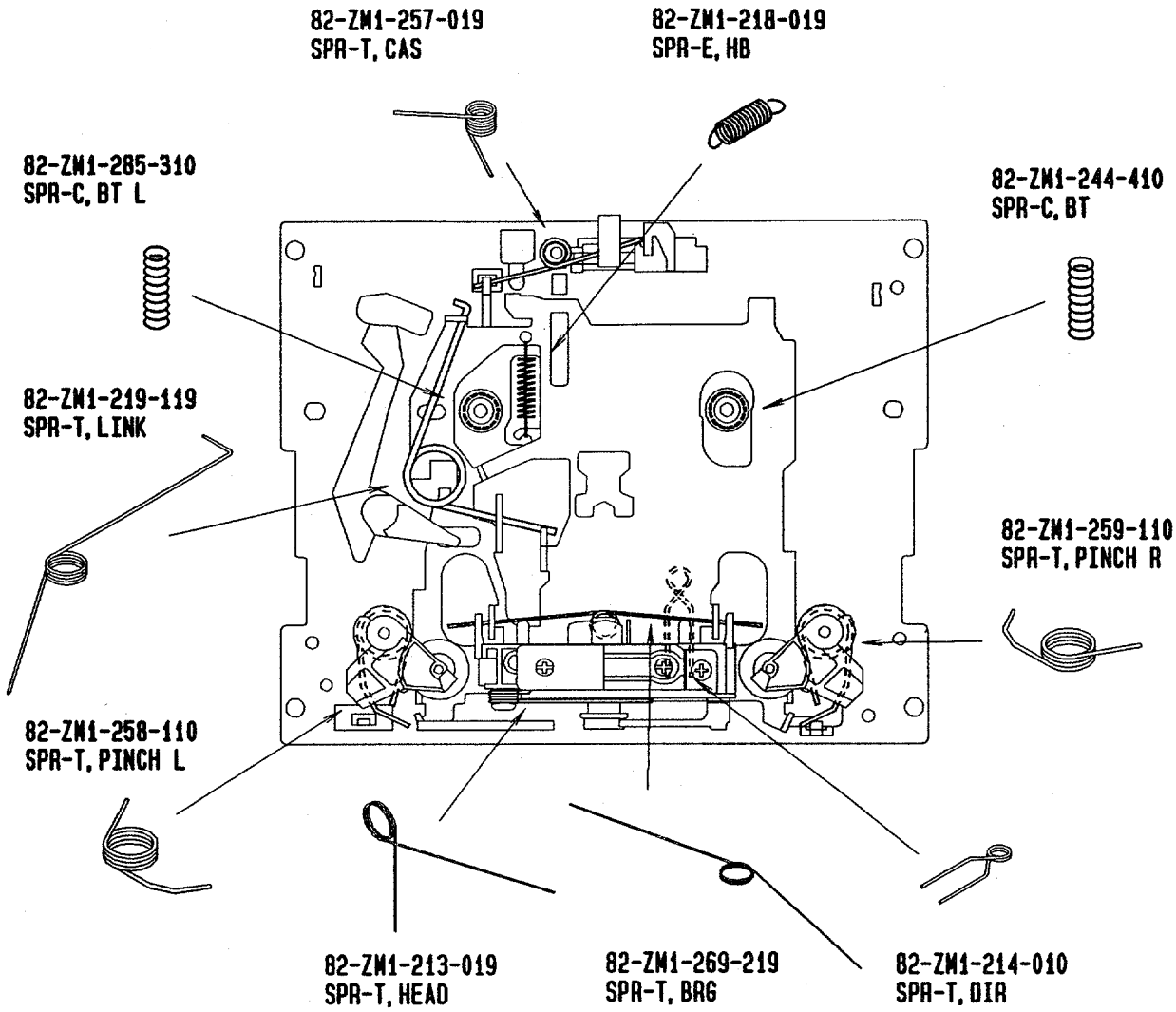

A
A
A
31
32
33
33
32
34
2ZM-3 MK2
PR4NM

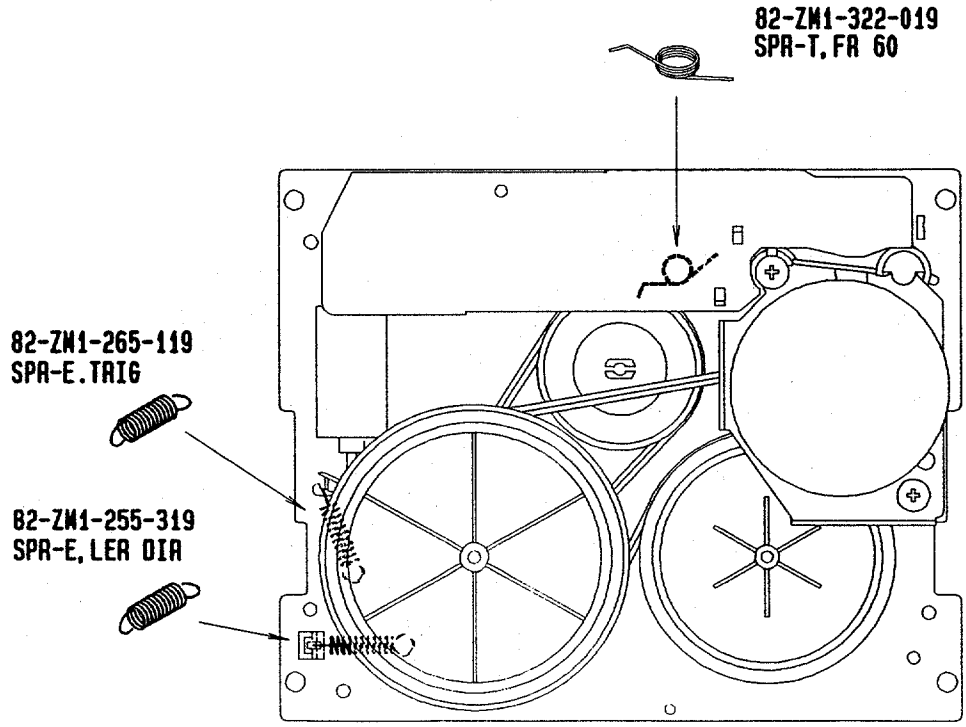
MECHANICAL PARTS LIST 1 / 1

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

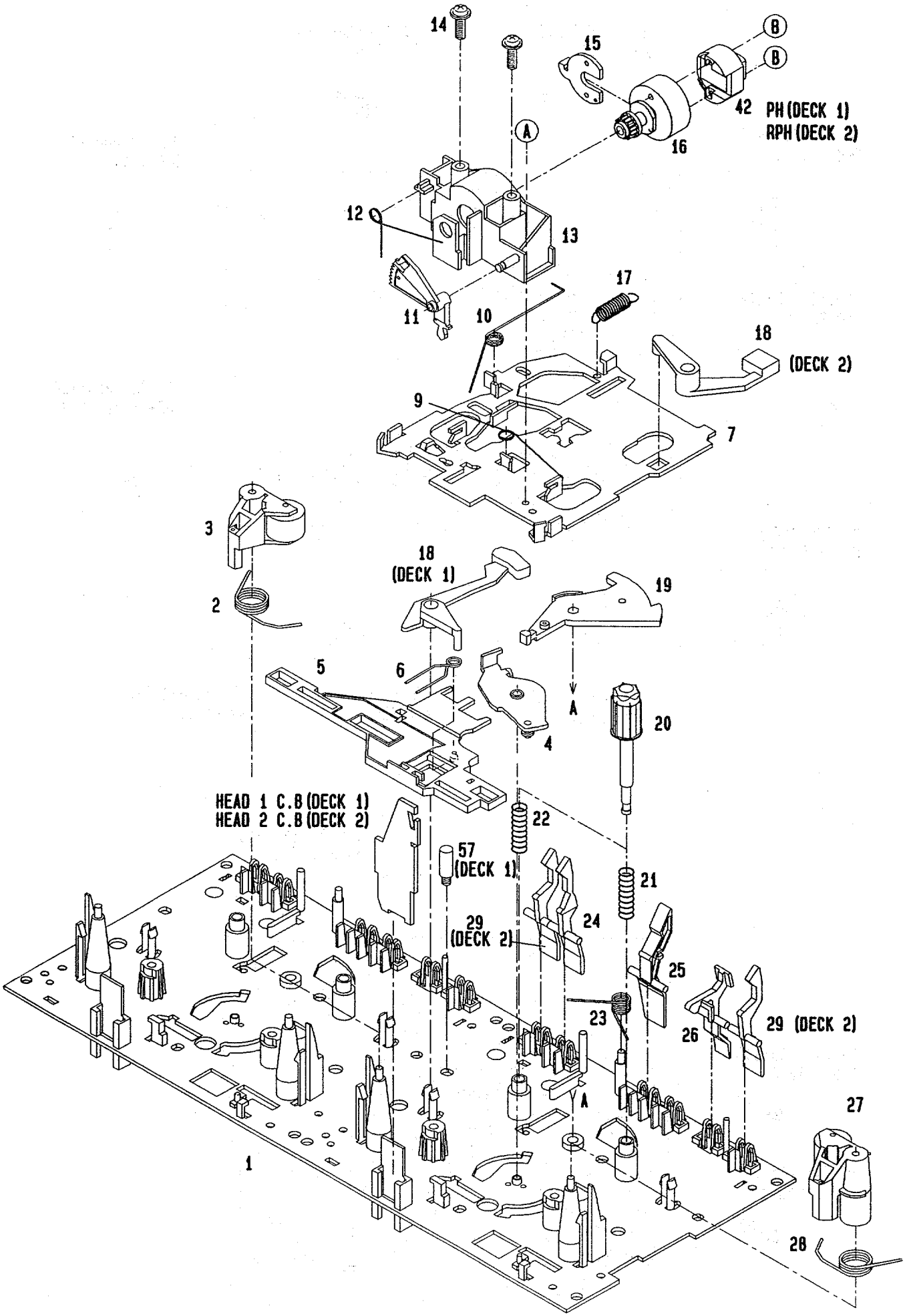
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF4-034-010		WINDOW,CASS 1
2	87-NF4-032-010		PANEL,CASS 1H
3	87-NF4-033-010		PANEL,CASS 2H
4	87-NF4-035-010		WINDOW,CASS 2
5	82-NF5-219-010		SPR-T,EJECT 2(SIN)
6	87-NF4-005-010		BOX,CASS 2
7	86-NF6-061-010		REFLECTOR,CASS
8	87-NF4-004-010		BOX,CASS 1
9	82-NF5-218-010		SPR-T,EJECT 1(SIN)
10	87-NF4-031-010		PANEL,FR H
11	87-NF4-038-010		WINDOW,DISPLAY H<90LH,94HR>
11	87-NF4-081-010		WINDOW,DISPLAY LH S94<94LH>
11	87-NF4-039-010		WINDOW,DISPLAY U<92U>
11	87-NF4-078-010		WINDOW,DISPLAY U 94<94U>
12	87-NF4-080-010		PLATE,DISP
13	87-NF4-042-010		PANEL,OPE
14	87-NF4-036-010		KEY,DEMO
15	87-NF4-007-010		KEY,CD
16	87-NF4-028-010		KNOB,RTRY VOL
17	81-532-080-010		LBL,CASS-COMPT
18	87-063-165-010		OIL-DMPR,150
19	87-NF4-001-010		CABI,FR H<94HR>
19	87-NF4-074-010		CABI,FR LH<94LH,90LH>
19	87-NF4-002-010		CABI,FR U<92U,94U>
20	87-NF4-037-010		WINDOW,CD
21	87-NF4-008-010		KEY,POWER
22	87-NF4-020-010		KEY,ASSY FUN
23	87-NF4-027-010		KEY,ASSY OPE
24	87-NF4-009-010		KEY,GEQ
25	87-NF4-010-010		KEY,BBE
26	87-NF4-012-010		KEY,DOLBY
27	87-NF4-045-010		KEY,KARAOKE<94HR>
27	87-NF4-046-010		KEY,VF U<EXCEPT 94HR>
28	87-NF4-011-010		KEY,VOL
29	82-NE6-067-010		BADGE,AIWA 30N
30	87-NF4-029-010		PANEL,TRAY H
31	87-NF4-216-010		HLDR,LOCK 1
32	82-NF5-228-010		SPR-C,LOCK
33	82-NF5-229-010		PLATE,LOCK
34	87-NF4-217-010		HLDR,LOCK 2
35	87-NF4-053-010		CABI,REAR HRJSTNM<94HR>
35	87-NF4-055-010		CABI,REAR LHSTNM<90LH>
35	87-NF4-059-010		CABI,REAR LHSTNM S94<94LH>
35	87-NF4-051-010		CABI,REAR USTNM<92U>
35	87-NF4-058-010		CABI,REAR USTNM 94<94U>
36	87-085-185-010		BUSHING,AC CORD(E)CM-22B<94LH,90LH,94HR>
36	87-085-189-010		BUSHING,AC CORD(U)CM-22C<92U,94U>
⚠ 37	87-050-079-010		AC CORD ASSY,E BLK<94LH,90LH,94HR>
⚠ 37	87-050-053-010		AC CORD ASSY,U-2<92U,94U>
38	86-NFT-005-110		CABI,STEEL TS
39	86-NF6-007-010		WINDOW,TOP<EXCEPT 94U>
39	86-NF6-101-010		WINDOW,TOP UL<94U>
40	87-A90-463-010		FAN,2408NL
41	87-NF4-079-010		PLATE,FL J
A	87-067-703-010		BVT2+3-10 W/O SLOT
B	87-591-094-410		QIT+3-6
C	87-067-688-010		BVTT+3-6
D	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
E	87-721-096-410		QT2+3-10 W/O SLOT
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-633-010		BVT2+3-8 W/O SLOT W/CONVEX
H	87-721-097-410		QT2+3-12 W/O SLOT
I	87-067-641-010		UTT2+3-8 W/O SLOT BLK
J	87-067-584-010		BVT2+3-6 W/O SLOT
K	87-067-690-010		BVIT3B+3-12 BLK
L	87-571-104-410		VIT+3-30

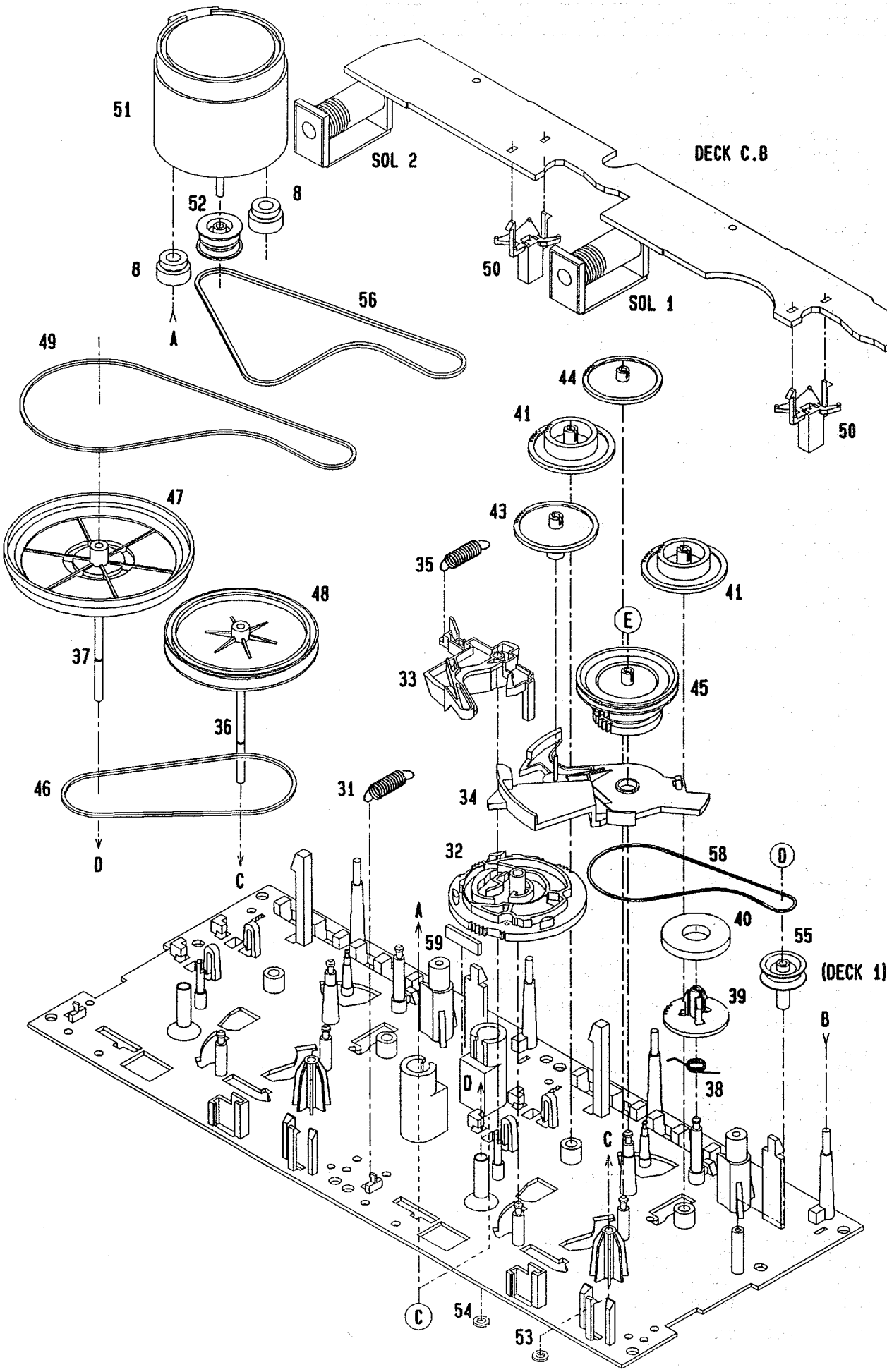
SPRING APPLICATION POSITION





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

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-NF4-901-010		IB,H(ECA)M<94HR>
1	87-NF4-902-010		IB,LH(ES)M<94LH,90LH>
1	87-NF4-903-010		IB,U(ESF)M<92U,94U>
2	87-NF4-655-010		RC UNIT,RC-7AS08
⚠ 3	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<94LH,90LH,94HR>
4	87-A90-064-010		FEEDER-ANT,FM (SHS)
5	87-A90-054-010		ANT,LOOP AM-CON C<94HR>
5	87-006-225-010		ANT,LOOP ANT NC2<EXCEPT 94HR>
6	87-043-095-010		ANT,WIRE<94HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

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G— —	
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