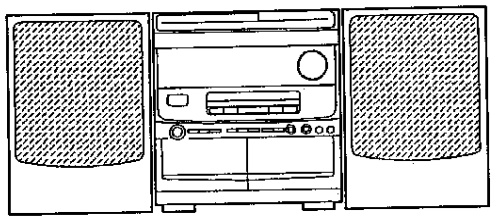
aiwa

aiwa SERVICE

NSX-V900
NSX-V929

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM–3MK2 PR4N
- BASIC CD MECHANISM : 4ZG–1 BDNM
- TYPE : E,EZ,G,K

SYSTEM	CD – CASSEIVER	SPEAKER
NSX-V900 (TYPE : E2,EZ,EEZ, G,K)	CX–NV900	SX – ANV900
NSX-V929 (TYPE : EEZ)	CX–NV929	

If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-963-128-10T.

If requiring information about the Speaker, see Service Manual of SX-ANV900/SX-NAV900, S/M Code No. 09-964-137-8FP.

S/M Code No. 09–966–139–2FE

SPECIFICATIONS

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

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

<LW Tuner section>
Tuning range 144 kHz to 290 kHz
Usable sensitivity 1440 µV/m
Antenna Loop antenna

<Amplifier section>
Power output * Rated : 80 W + 80 W
(6 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
Reference : 100 W + 100 W
(6 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
DIN MUSIC POWER
190 W + 190 W
* (without connecting to the SURROUND SPEAKERS)
Total harmonic distortion 0.1% (40 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs VIDEO/AUX : 150 mV (adjustable)
MIC 1, MIC 2 : 1 mV (10 kohms)
Outputs LINE OUT : 200 mV
SUPER WOOFER : 2.2 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
Signal-to-noise ratio 60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system AC bias
Heads Deck 1 : Playback head x1
Deck 2 : Recording/playback/erase head x 1

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

<Speaker system SX–ANV900>
Cabinet type 4 way, bass reflex with surround speaker (magnetic sealed type)
Speakers Woofer :
140 mm ($5^5/_8$ in.) cone type
Mid-range :
80 mm ($3^1/_4$ in.) cone type
Tweeter :
50 mm (2 in.) cone type
Super tweeter :
20 mm ($^{13}/_{16}$ in.) ceramic type
Surround speaker :
80 mm ($3^1/_4$ in.) 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) 235 x 310 x 270 mm
Weight 4.5 kg

<General>
Power requirements E,EZ : 230 V AC, 50 Hz
G, K: 230V–240V AC, 50Hz
Power consumption E,EZ : 510 W
G, K: 130W
Dimensions of main unit (W x H x D) 260 x 308 x 340 mm
Weight of main unit 8.4 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 laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

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

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

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

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

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

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

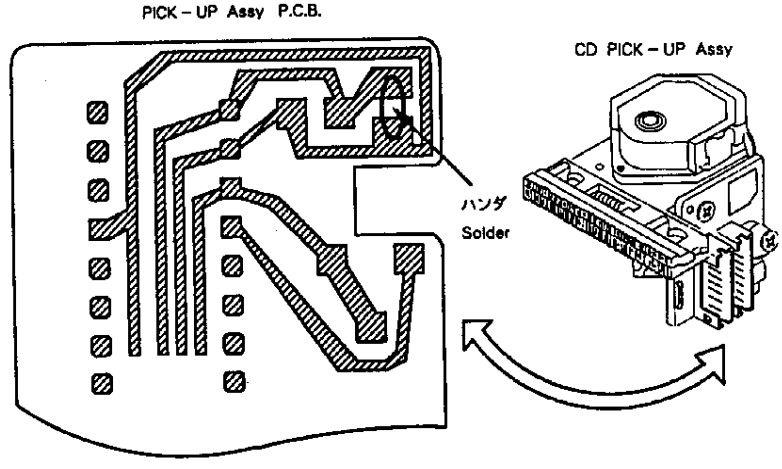
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS – 210A)

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

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



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-NF4-620-010		IC,LC866448W-5B18
	87-070-083-019		IC,GP1U281X
	87-A20-062-019		IC,STK-419-130
	87-070-121-010		IC,HA12185NT
	87-070-232-019		IC,BA3834S
	87-017-375-089		IC,TC4094BF
	87-001-874-019		IC,HA12134A
	87-A20-107-019		IC,BA3836
	87-027-666-019		IC,TC4052BP
	87-A20-056-019		IC,BA3880S
	87-017-374-019		IC,TC4094BP
	87-017-888-089		IC,NJM4558MD
	87-070-184-040		IC,M65846FP-600D
	87-A20-105-049		C-IC,BU1921FS
	87-001-792-089		IC,NJM2100M
	87-A20-069-049		C-IC,BA3842F
	87-070-127-119		IC,LC72131
	87-017-714-119		IC,LA1836
TRANSISTOR			
	87-026-463-089		TR,2SA933S(RS)
	89-213-702-019		TR,2SB1370E
	89-113-187-089		TR,2SA1318TU
	87-026-610-089		TR,KTC3198GR
	89-332-665-089		TR,2SC3266GR
	89-337-221-389		C-TR,2SC3722K
	89-327-125-089		C-TR,2SC2712GR
	89-111-625-089		C-TR,2SA1162GR
	87-026-210-089		C-TR,DTC144EK T147
	87-026-211-089		C-TR,DTA144EK T147
	89-333-266-089		C-TR,2SC3326B
	87-026-609-089		TR,KTA1266GR
	89-109-705-089		TR,2SA970GR
	87-026-297-089		C-TR,DTA144TK
	87-026-226-089		C-TR,DTA143EK
	89-502-466-089		TR,FET 2SK246-BL (TPE2)
	89-112-965-089		TR,2SA1296GR
	87-026-228-089		C-TR,DTA124EK
	89-333-317-089		TR,2SC3331T
	89-109-521-089		TR,2SA952K
	89-406-555-089		TR,2SD655E
	87-026-238-089		C-TR,DTC144WK
	87-026-214-089		TR,DTA114YS
	89-327-143-089		C-TR,2SC2714 (O)
	87-026-213-089		C-TR,DTC114YK
	89-505-434-549		C-FET,2SK543(4/5)
DIODE			
	87-A40-115-069		DIODE,RS603M
	87-017-978-089		DIODE,1N4003
	87-020-027-089		C-DIODE,1SS184
	87-020-125-089		C-DIODE,1SS181
	87-017-437-089		DIODE,1N4148M
	87-017-174-089		ZENER,HZS11A3L
	87-017-147-089		ZENER,HZS33-2
	87-017-127-089		ZENER,HZS11C1
	87-A40-184-080		DIODE,RK34(F)
	87-001-731-089		ZENER HZS6C2L
	87-017-091-089		ZENER,HZS5C1
	87-020-331-089		C-DIODE,DAN202K
	87-020-330-088		C-DIODE,DAP202K
	87-001-290-089		ZENER,HZS6B1L
	87-017-148-089		ZENER,HZS6A1L

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C101	87-016-520-099		CAP,E 3300-65 SMG
C102	87-016-520-099		CAP,E 3300-65 SMG
C104	87-010-235-089		CAP,E 470-16 SME
C105	87-010-235-089		CAP,E 470-16 SME
C106	87-010-409-089		CAP,E 220-50 SME
C107	87-010-247-089		CAP,E 100-50 SME
C108	87-010-247-089		CAP,E 100-50 SME
C109	87-010-263-089		CAP,E 100-10 SME 5X11
C112	87-010-382-089		CAP,E 22-25 SME
C113	87-010-403-089		CAP,E 3.3-50 SME
C116	87-012-140-089		C-CAP,S 470P-50 CH
C121	87-012-368-089		C-CAP,S 0.1-50
C122	87-012-368-089		C-CAP,S 0.1-50
C123	87-018-209-089		CAP,TC-U 0.1-50 F
C124	87-012-368-089		C-CAP,S 0.1-50
C145	87-018-133-089		CAP,TC-U 4700P-16X
C146	87-018-133-089		CAP,TC-U 4700P-16X
C152	87-010-260-089		CAP,E 47-25 SME
C171	87-016-565-099		CAP,E 4700-25(JAM1)
C172	87-016-565-099		CAP,E 4700-25(JAM1)
C173	87-010-196-089		C-CAP,S 0.1-25 F
C174	87-010-196-089		C-CAP,S 0.1-25 F
C175	87-010-196-089		C-CAP,S 0.1-25 F
C176	87-015-785-089		C-CAP,0.1-25 F
C220	87-010-194-089		C-CAP,S 0.047-25 F
C221	87-010-401-089		CAP,E 1-50 SME
C222	87-010-401-089		CAP,E 1-50 SME
C223	87-010-187-089		C-CAP,S 5600P-50 B
C224	87-010-187-089		C-CAP,S 5600P-50 B
C225	87-015-826-089		C-CAP,S 1200P-50 BK
C226	87-015-826-089		C-CAP,S 1200P-50 BK
C227	87-010-405-089		CAP,E 10-50 SME
C228	87-010-405-089		CAP,E 10-50 SME
C229	87-010-405-089		CAP,E 10-50 SME
C230	87-010-405-089		CAP,E 10-50 SME
C231	87-010-147-089		C-CAP,S 3P-50 CH
C232	87-018-098-089		CAP,TC-U 3.3P-50 SL
C233	87-010-196-089		C-CAP,S 0.1-25 F
C234	87-010-196-089		C-CAP,S 0.1-25 F
C235	87-010-196-089		C-CAP,S 0.1-25 F
C236	87-010-196-089		C-CAP,S 0.1-25 F
C239	87-018-134-089		CAP,TC-U 0.01-16 Y
C240	87-018-134-089		CAP,TC-U 0.01-16 Y
C241	87-010-197-089		C-CAP,S 0.01-25 B
C242	87-010-197-089		C-CAP,S 0.01-25 B
C243	87-010-322-089		C-CAP,S 100P-50 CH
C244	87-010-322-089		C-CAP,S 100P-50 CH
C245	87-010-318-089		C-CAP,S 47P-50 CH
C246	87-010-293-089		C-CAP 47P-50CH
C249	87-018-209-089		CAP,TC-U 0.1-50F
C250	87-A10-200-080		CAP,E 10-100 BP
C260	87-015-785-089		C-CAP,0.1-25 F
C301	87-010-318-089		C-CAP,S 47P-50 CH
C302	87-010-318-089		C-CAP,S 47P-50 CH
C303	87-012-157-089		C-CAP,S 330P-50 CH
C304	87-012-157-089		C-CAP,S 330P-50 CH
C305	87-012-145-089		C-CAP S 270P-50CH
C306	87-012-145-089		C-CAP S 270P-50CH
C307	87-010-196-089		C-CAP,S 0.1-25 F
C311	87-010-198-089		C-CAP,S 0.022-25 B
C312	87-010-198-089		C-CAP,S 0.022-25 B
C313	87-010-181-089		C-CAP,S 1800P-50 B
C314	87-010-181-089		C-CAP,S 1800P-50 B
C315	87-010-179-089		C-CAP,S 1200P-50 B
C316	87-010-179-089		C-CAP,S 1200P-50 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C317	87-012-142-089		C-CAP,S 0.33-16 F
C318	87-012-142-089		C-CAP,S 0.33-16 F
C319	87-012-141-089		C-CAP,S 0.22-16 F
C320	87-012-141-089		C-CAP,S 0.22-16 F
C321	87-010-196-089		C-CAP,S 0.1-25 F
C322	87-010-196-089		C-CAP,S 0.1-25 F
C324	87-010-260-089		CAP,E 47-25 SME
C325	87-010-370-089		CAP,E 330-6.3 SME
C326	87-010-196-089		C-CAP,S 0.1-25 F
C330	87-010-401-089		CAP,E 1-50 SME
C332	87-015-785-089		C-CAP,0.1-25 F
C335	87-010-805-089		C-CAP,S 1-16F
C336	87-010-805-089		C-CAP,S 1-16F
C337	87-010-196-089		C-CAP,S 0.1-25 F
C338	87-010-196-089		C-CAP,S 0.1-25 F
C339	87-010-196-089		C-CAP,S 0.1-25 F
C340	87-015-785-089		C-CAP,0.1-25 F
C351	87-012-154-089		C-CAP,S 150P-50 CH
C352	87-012-154-089		C-CAP,S 150P-50 CH
C451	87-012-140-089		C-CAP,S 470P-50 CH
C452	87-012-140-089		C-CAP,S 470P-50 CH
C453	87-010-178-089		C-CAP,S 1000P-50 B
C454	87-010-175-089		C-CAP,S 560P-50 SL
C455	87-010-178-089		C-CAP,S 1000P-50 B
C456	87-010-260-089		CAP,E 47-25 SME
C457	87-010-197-089		C-CAP,S 0.01-25 B
C458	87-010-183-089		C-CAP,S 2700P-50 B
C459	87-010-183-089		C-CAP,S 2700P-50 B
C460	87-010-183-089		C-CAP,S 2700P-50 B
C470	87-010-196-089		C-CAP,S 0.1-25 F
C501	87-010-179-089		C-CAP,S 1200P-50 B
C502	87-010-179-089		C-CAP,S 1200P-50 B
C503	87-012-155-089		C-CAP,S 180P-50 CH
C504	87-012-155-089		C-CAP,S 180P-50 CH
C515	87-010-545-089		CAP,E 0.22-50 SME
C516	87-010-545-089		CAP,E 0.22-50 SME
C519	87-015-785-089		C-CAP,0.1-25 F
C521	87-010-197-089		C-CAP,S 0.01-25 B
C522	87-010-318-089		C-CAP,S 47P-50 CH
C523	87-010-197-089		C-CAP,S 0.01-25 B
C524	87-010-402-089		CAP,E 2.2-50 SME
C525	87-010-184-089		C-CAP,S 3300P-50 B
C526	87-010-196-089		C-CAP,S 0.1-25 F
C527	87-010-401-089		CAP,E 1-50 SME
C528	87-010-401-089		CAP,E 1-50 SME
C529	87-010-384-089		CAP,E 100-25 SME
C530	87-010-197-089		C-CAP,S 0.01-25 B
C531	87-010-183-089		C-CAP,S 2700P-50 B
C532	87-010-194-089		C-CAP,S 0.047-25 F
C533	87-010-196-089		C-CAP,S 0.1-25 F
C534	87-010-263-089		CAP,E 100-10 SME 5X11
C535	87-010-401-089		CAP,E 1-50 SME
C536	87-010-401-089		CAP,E 1-50 SME
C537	87-010-545-089		CAP,E 0.22-50 SME
C540	87-010-196-089		C-CAP,S 0.1-25 F
C541	87-010-196-089		C-CAP,S 0.1-25 F
C542	87-010-405-089		CAP,E 10-50 SME
C543	87-010-546-089		CAP,E 0.33-50 SME
C544	87-010-546-089		CAP,E 0.33-50 SME
C545	87-010-400-089		CAP,E 0.47-50 SME
C546	87-010-400-089		CAP,E 0.47-50 SME
C547	87-015-632-089		C-CAP,0.015-50 BK
C548	87-015-632-089		C-CAP,0.015-50 BK
C550	87-018-208-089		CAP,TC-U 0.047-50
C553	87-015-627-089		C-CAP,1000P-50 B
C554	87-015-627-089		C-CAP,1000P-50 B
C557	87-010-178-089		C-CAP,S 1000P-50 B
C558	87-010-178-089		C-CAP,S 1000P-50 B
C597	87-010-404-089		CAP,E 4.7-50 SME
C598	87-010-404-089		CAP,E 4.7-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C601	87-010-178-089		C-CAP,S 1000P-50 B
C602	87-010-178-089		C-CAP,S 1000P-50 B
C603	87-010-405-089		CAP,E 10-50 SME
C604	87-010-405-089		CAP,E 10-50 SME
C605	87-010-260-089		CAP,E 47-25 SME
C606	87-010-101-089		CAP,E 220-16 SME
C607	87-010-188-089		C-CAP,S 6800P-50 B
C608	87-010-188-089		C-CAP,S 6800P-50 B
C609	87-018-127-089		CAP,TC-U 470P-50 B
C610	87-018-127-089		CAP,TC-U 470P-50 B
C611	87-010-197-089		C-CAP,S 0.01-25 B
C612	87-010-197-089		C-CAP,S 0.01-25 B
C613	87-010-195-089		C-CAP,S 0.068-25 F
C614	87-010-195-089		C-CAP,S 0.068-25 F
C615	87-010-404-089		CAP,E 4.7-50 SME
C616	87-010-404-089		CAP,E 4.7-50 SME
C617	87-010-404-089		CAP,E 4.7-50 SME
C618	87-010-404-089		CAP,E 4.7-50 SME
C620	87-018-209-089		CAP,TC-U 0.1-50 F
C641	87-010-196-089		C-CAP,S 0.1-25 F
C642	87-010-196-089		C-CAP,S 0.1-25 F
C673	87-010-316-089		C-CAP,S 33P-50 CH
C674	87-010-316-089		C-CAP,S 33P-50 CH
C675	87-010-318-089		C-CAP,S 47P-50 CH
C676	87-010-318-089		C-CAP,S 47P-50 CH
C701	87-010-381-089		CAP,E 330-16 SME
C702	87-010-404-089		CAP,E 4.7-50 SME
C703	87-010-197-089		C-CAP,S 0.01-25 B
C704	87-010-197-089		C-CAP,S 0.01-25 B
C711	87-010-263-089		CAP,E 100-10 SME 5X11
C712	87-010-196-089		C-CAP,S 0.1-25 F
C722	87-010-152-089		C-CAP,S 8P-50 CH
C723	87-010-178-089		C-CAP,S 1000P-50 B
C725	87-010-178-089		C-CAP,S 1000P-50 B
C727	87-010-196-089		C-CAP,S 0.1-25 F
C728	87-010-248-089		CAP,E 220-10 SME
C770	87-010-405-089		CAP,E 10-50 SME
C771	87-010-405-089		CAP,E 10-50 SME
C772	87-010-194-089		C-CAP,S 0.047-25 F
C773	87-015-785-089		C-CAP,0.1-25 F
C774	87-010-263-089		CAP,E 100-10 SME 5X11
C775	87-010-405-089		CAP,E 10-50 SME
C776	87-010-197-089		C-CAP,S 0.01-25 B
C777	87-010-400-089		CAP,E 0.47-50 SME
C778	87-010-401-089		CAP,E 1-50 SME
C779	87-010-401-089		CAP,E 1-50 SME
C780	87-010-197-089		C-CAP,S 0.01-25 B
C781	87-010-405-089		CAP,E 10-50 SME
C782	87-010-405-089		CAP,E 10-50 SME
C785	87-010-197-089		C-CAP,S 0.01-25 B
C787	87-010-184-089		C-CAP,S 3300P-50 B
C788	87-010-184-089		C-CAP,S 3300P-50 B
C789	87-015-826-089		C-CAP,1200-50 B K
C790	87-010-179-089		C-CAP,S 1200P-50 B
C791	87-010-401-089		CAP,E 1-50 SME
C792	87-010-183-089		C-CAP,S 2700P-50 B<EXCEPT G>
C792	87-010-182-089		C-CAP,S 2200P-50 B<G>
C793	87-010-189-089		C-CAP,S 8200P-50 B
C794	87-010-408-089		CAP,E 47-50 SME
C795	87-010-194-089		C-CAP,S 0.047-25 F
C796	87-010-403-089		CAP,E 3.3-50 SME
C802	87-010-197-089		C-CAP,S 0.01-25 B
C814	87-010-196-089		C-CAP,S 0.1-25 F
C817	87-010-197-089		C-CAP,S 0.01-25 B
C818	87-010-197-089		C-CAP,S 0.01-25 B
C819	87-010-197-089		C-CAP,S 0.01-25 B
C820	87-010-408-089		CAP,E 47-50 SME
C821	87-010-197-089		C-CAP,S 0.01-25 B
C823	87-010-197-089		C-CAP,S 0.01-25 B
C828	87-010-197-089		C-CAP,S 0.01-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C829	87-010-197-089		C-CAP,S 0.01-25 B
C830	87-015-819-089		CHIP CAP 0.01
C835	87-010-197-089		C-CAP,S 0.01-25 B
C860	87-010-248-089		CAP,E 220-10 SME
C861	87-010-196-089		C-CAP,S 0.1-25 F
C862	87-010-182-089		C-CAP,S 2200P-50 B
C863	87-010-178-089		C-CAP,S 1000P-50 B
C864	87-010-315-089		C-CAP,S 27P-50 CH
C865	87-010-315-089		C-CAP,S 27P-50 CH
C866	87-010-197-089		C-CAP,S 0.01-25 B
C867	87-012-140-089		C-CAP,S 470P-50 CH
C868	87-010-405-089		CAP,E 10-50 SME
C869	87-010-196-089		C-CAP,S 0.1-25 F
C871	87-010-196-089		C-CAP,S 0.1-25 F
C872	87-010-197-089		C-CAP,S 0.01-25 B
C901	87-010-197-089		C-CAP,S 0.01-25 B
C902	87-010-196-089		C-CAP,S 0.1-25 F
C903	87-018-119-089		CAP,TC-U 100P-50B
C942	87-010-154-089		C-CAP,S 10P-50 CH
C946	87-010-401-089		CAP,E 1-50 SME
C949	87-014-049-089		CAP,PP 470P-100 J
C952	87-010-197-089		C-CAP,S 0.01-25 B
C957	87-010-315-089		C-CAP,S 27P-50 CH
C958	87-010-197-089		C-CAP,S 0.01-25 B
C960	87-010-196-089		C-CAP,S 0.1-25 F
C987	87-018-134-089		CAP,TC-U 0.01-16 Y
C988	87-018-134-089		CAP,TC-U 0.01-16 Y
C990	87-010-197-089		C-CAP,S 0.01-25 B
C993	87-018-134-089		CAP,TC-U 0.01-16 Y
C995	87-010-197-089		C-CAP,S 0.01-25 B
C999	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-423-019		CF,SFE10.7MS3G-A
CF802	82-785-747-019		CF,MS2 GHY,R
FFE801	A8-6ZA-195-039		6ZA-1 YFEENM<EXCEPT G>
FFE801	A8-6ZA-191-039		6ZA-1 FEENM<G>
J252	87-099-678-019		JACK 6.3W/S BLK<EXCEPT G>
J252	87-A60-024-019		JACK 6.3BLK W/SW KM<G>
J253	87-099-802-019		JACK,PIN 3P BRW
J254	87-A60-238-019		TERMINAL,SP 4P(MSC)
J652	87-099-625-019		JACK PIN 4P,RVS (KM)
J653	87-099-625-019		JACK PIN 4P,RVS (KM)
J801	87-033-241-019		TERMINAL,ANT AJ-2039
L101	87-003-383-019		COIL,1UH-S
L102	87-003-383-019		COIL,1UH-S
L403	87-A50-049-019		COIL,TRAP 85KHZ<EXCEPT G>
L403	87-A50-102-019		COIL,TRAP 85KHZ<G>
L404	87-A50-049-019		COIL,TRAP 85KHZ<EXCEPT G>
L404	87-A50-102-019		COIL,TRAP 85KHZ<G>
L451	87-007-342-019		COIL,OSC 85K BIAS
L701	87-A50-027-019		COIL,1 POLE MPX(TOK)
L702	87-A50-027-019		COIL,1 POLE MPX(TOK)
L741	87-A50-015-019		COIL,FM DET(TOK)
L742	87-A90-051-019		FLTR,CFAZ-450(TOK)
L743	87-005-564-089		C-COIL,2.2UH
L770	87-003-102-089		COIL,10UH
L832	87-005-847-089		COIL,2.2UH(CECS)
L850	87-005-847-089		COIL,2.2UH(CECS)
L941	87-A50-020-019		COIL,ANT LW(COI)
L942	87-A50-019-019		COIL,OSC LW(COI)
L981	86-NF4-665-019		AM PACK 1(TOK)
⚠ PR110	87-026-689-089		PROTECTOR 1A 60V 491
⚠ PR113	87-026-681-089		PROTECTOR 5A 60V 491
⚠ PR114	87-026-681-089		PROTECTOR 5A 60V 491
R100	87-029-060-089		RES,FUSE 33-1/4WJ
R101	87-029-060-089		RES,FUSE 33-1/4WJ
R105	87-022-600-089		RES,M/F 0.1-2W J
R106	87-022-600-089		RES,M/F 0.1-2W J
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2
RY102	87-045-382-019		RELAY,OUAZ-SH-112L

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SFR301	87-024-355-089		SFR,33K DIA6 H
SFR302	87-024-355-089		SFR,33K DIA6 H
SFR303	87-024-355-089		SFR,33K DIA6 H
SFR304	87-024-355-089		SFR,33K DIA6 H
SFR305	87-024-356-089		SFR,47K DIA6 H
SFR306	87-024-356-089		SFR,47K DIA6 H
SFR451	87-024-356-089		SFR,47K DIA6 H
SFR452	87-024-356-089		SFR,47K DIA6 H
SFR722	87-024-352-089		SFR,4.7K DIA6 H
TC701	87-011-253-089		TRIMER,30P LAR
TC942	87-011-253-089		TRIMER,30P LAR
VR651	87-A90-153-019		VR,RTRY 50KBX2<EXCEPT G>
VR651	82-NF5-660-019		VR,50K BX2 RK14K12A<G>
W101	85-NF5-628-019		F-CABLE 7P-2.5
W604	85-NF5-617-019		CABLE,FFC 6P-1.25
X703	84-508-618-019		VIB,CER CSB 456 F/5
X721	87-030-372-019		VIB,XTAL 7.2MHZ
X850	89-KT1-608-019		X,TAL 4.332MHZ

FRONT C.B

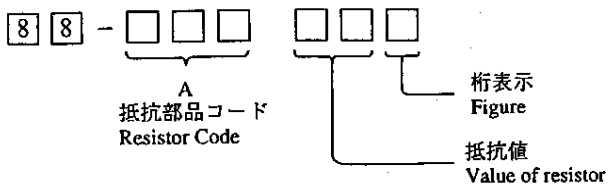
C201	87-010-497-049		CAP,E 4.7-35 GAS
C202	87-010-497-049		CAP,E 4.7-35 GAS
C203	87-010-281-049		CAP,E 22-35 5L
C204	87-010-494-049		CAP,E 1-50 GAS
C205	87-010-263-049		CAP,E 100-10
C206	87-010-550-049		CAP,E 100-6.3 GAS
C207	87-010-494-049		CAP,E 1-50 GAS
C208	87-018-209-089		CAP,TC-U 0.1-50 F
C209	87-010-550-049		CAP,E 100-6.3 GAS
C212	87-010-560-049		CAP,E 10-50 GAS
C213	87-010-196-089		C-CAP,S 0.1-25 F
C214	87-010-196-089		C-CAP,S 0.1-25 F
C215	87-010-196-089		C-CAP,S 0.1-25 F
C221	87-010-154-089		C-CAP,S 10P-50 CH
C222	87-010-314-089		C-CAP,S 22P-50 CH
C223	87-010-178-089		C-CAP,S 1000P-50 B
C250	87-010-178-089		C-CAP,S 1000P-50 B
C251	87-010-196-089		C-CAP,S 0.1-25 F
C381	87-010-196-089		C-CAP,S 0.1-25 F
C382	87-010-196-089		C-CAP,S 0.1-25 F
C383	87-010-196-089		C-CAP,S 0.1-25 F
C384	87-010-196-089		C-CAP,S 0.1-25 F
C385	87-010-322-089		C-CAP,S 100P-50 CH
C389	87-010-196-089		C-CAP,S 0.1-25 F
C401	87-010-196-089		C-CAP,S 0.1-25 F
C402	87-010-196-089		C-CAP,S 0.1-25 F
C403	87-010-196-089		C-CAP,S 0.1-25 F
C404	87-018-209-089		CAP,TC-U 0.1-50 F
C501	87-010-060-049		CAP,E 100-16 7L
C601	87-010-405-049		CAP,E 10-50 SME
C602	87-010-176-089		C-CAP,S 680P-50 SL
C603	87-010-186-089		C-CAP,S 4700P-50 B
C604	87-010-322-089		C-CAP,S 100P-50 CH
C605	87-010-321-089		C-CAP,S 82P-50 CH
C606	87-010-401-049		CAP,E 1-50 SME
C607	87-010-196-089		C-CAP,S 0.1-25 F
C608	87-010-322-089		C-CAP,S 100P-50 CH
C609	87-010-491-049		CAP E 0.22-50 5L
C610	87-010-177-089		C-CAP,S 820P-50 SL
C611	87-010-406-049		CAP,E 22-50 SME
C612	87-010-196-089		C-CAP,S 0.1-25 F
C614	87-A10-189-049		CAP,E 220-10
C615	87-010-560-049		CAP,E 10-50 GAS
C646	87-010-196-089		C-CAP,S 0.1-25 F
CON501	87-099-032-019		CONN,15P 6216 H
FB601	87-008-474-089		F-BEAD,EMI BL02RN1
FL101	86-NF4-610-019		FL,BJ461GK
J601	82-NF7-630-019		JACK,3.5 MO
J621	82-NF7-630-019		JACK,3.5 MO

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L202	87-A50-052-019		COIL,CLOCK 5.76MHZ
LED401	87-070-281-089		LED,SLZ736A-25-S-T
LED402	87-070-281-089		LED,SLZ736A-25-S-T
LED403	87-070-281-089		LED,SLZ736A-25-S-T
LED404	87-070-281-089		LED,SLZ736A-25-S-T
LED405	87-070-281-089		LED,SLZ736A-25-S-T
LED407	87-070-199-089		LED,SLP738F-81-S-T1
LED408	87-070-199-089		LED,SLP738F-81-S-T1
LED409	87-070-199-089		LED,SLP738F-81-S-T1
LED410	87-070-199-089		LED,SLP738F-81-S-T1
LED411	87-070-199-089		LED,SLP738F-81-S-T1
LED412	87-070-199-089		LED,SLP738F-81-S-T1
LED413	87-070-199-089		LED,SLP738F-81-S-T1
LED414	87-070-199-089		LED,SLP738F-81-S-T1
LED420	87-070-201-089		LED,SLP9118C-51-S-T1
LED421	87-070-201-089		LED,SLP9118C-51-S-T1
LED422	87-070-201-089		LED,SLP9118C-51-S-T1
LED423	87-070-201-089		LED,SLP9118C-51-S-T1
LED437	87-070-278-019		LED,SLZ-738A-24-S
LED438	87-070-278-019		LED,SLZ-738A-24-S
LED439	87-070-278-019		LED,SLZ-738A-24-S
LED440	87-070-278-019		LED,SLZ-738A-24-S
LED441	87-070-290-019		LED,SLZ 936-30-S
LED442	87-070-290-019		LED,SLZ 936-30-S
LED443	87-070-201-089		LED,SLP9118C-51-S-T1
LED444	87-070-201-089		LED,SLP9118C-51-S-T1
LED445	87-070-201-089		LED,SLP9118C-51-S-T1
LED446	87-070-201-089		LED,SLP9118C-51-S-T1
LED447	87-070-201-089		LED,SLP9118C-51-S-T1
LED448	87-070-201-089		LED,SLP9118C-51-S-T1
S301	87-A90-164-089		SW,TACT SKQAB(N)
S302	87-A90-164-089		SW,TACT SKQAB(N)
S303	87-A90-164-089		SW,TACT SKQAB(N)
S304	87-A90-164-089		SW,TACT SKQAB(N)
S305	87-A90-164-089		SW,TACT SKQAB(N)
S308	87-A90-164-089		SW,TACT SKQAB(N)
S309	87-A90-164-089		SW,TACT SKQAB(N)
S310	87-A90-164-089		SW,TACT SKQAB(N)
S321	87-A90-164-089		SW,TACT SKQAB(N)
S322	87-A90-164-089		SW,TACT SKQAB(N)
S323	87-A90-164-089		SW,TACT SKQAB(N)
S324	87-A90-164-089		SW,TACT SKQAB(N)
S325	87-A90-164-089		SW,TACT SKQAB(N)
S326	87-A90-164-089		SW,TACT SKQAB(N)
S327	87-A90-164-089		SW,TACT SKQAB(N)
S328	87-A90-164-089		SW,TACT SKQAB(N)
S329	87-A90-164-089		SW,TACT SKQAB(N)
S330	87-A90-164-089		SW,TACT SKQAB(N)
S343	87-A90-164-089		SW,TACT SKQAB(N)
S344	87-A90-164-089		SW,TACT SKQAB(N)
S345	87-A90-164-089		SW,TACT SKQAB(N)
S346	87-A90-164-089		SW,TACT SKQAB(N)
S347	87-A90-164-089		SW,TACT SKQAB(N)
S348	87-A90-164-089		SW,TACT SKQAB(N)
VR600	83-SP2-612-019		VR,10KB SQ11
VR601	87-A90-124-019		VR,RTRY 10KA L20
W104	85-NF5-615-019		CABLE,FFC 15P-1.25
W301	86-NF4-661-019		CABLE,FFC 6P-1.25(F)
W501	85-NF5-618-019		CABLE,FFC 13P-1.25
MVR C.B			
C622	87-010-194-089		C-CAP,S 0.047-25 F
C648	87-012-156-089		C-CAP,S 220P-50 CH
C650	87-010-319-089		C-CAP,S 56P-50 CH
C651	87-010-319-089		C-CAP,S 56P-50 CH
C653	87-016-461-089		C-CAP S 0.47-10PZ
C654	87-010-178-089		C-CAP,S 1000P-50 B
C656	87-010-196-089		C-CAP,S 0.1-25 F
C657	87-010-263-049		CAP,E 100-10
C659	87-010-184-089		C-CAP,S 3300P-50 B
C660	87-010-426-089		C-CAP,S 0.012-25 B
C661	87-016-461-089		C-CAP S 0.47-10PZ
C663	87-010-263-089		CAP,E 100-10 SME 5X11
C664	87-012-141-089		C-CAP,S 0.22-16 F
C667	87-010-177-089		C-CAP,S 820P-50 SL
C668	87-010-182-089		C-CAP,S 2200P-50 B
C669	87-010-404-089		CAP,E 4.7-50 SME
C670	87-010-404-089		CAP,E 4.7-50 SME
C671	87-010-197-089		C-CAP,S 0.01-25 B
C672	87-010-196-089		C-CAP,S 0.1-25 F
C700	87-010-198-089		C-CAP,S 0.022-25 B
C703	87-010-402-049		CAP E2.2-50 SME
C704	87-010-402-089		CAP,E 2.2-50 SME
C705	87-010-545-049		CAP E 0.22-50 SME
C706	87-010-401-049		CAP,E 1-50 SME
C707	87-010-260-049		CAP,E 47-25 SME
C708	87-010-405-049		CAP,E 10-50 SME
C709	87-010-545-049		CAP E 0.22-50 SME
C710	87-010-263-049		CAP,E 100-10
C711	87-010-993-089		C-CAP,S 0.056-25 F
C712	87-016-460-089		C-CAP,S 0.22-25 F
C713	87-016-460-089		C-CAP,S 0.22-25 F
C714	87-010-993-089		C-CAP,S 0.056-25 F
C715	87-010-182-089		C-CAP,S 2200P-50 B
C716	87-010-182-089		C-CAP,S 2200P-50 B
C717	87-010-196-089		C-CAP,S 0.1-25 F
FB640	87-008-372-089		FLTR,EMI BL 01RN1
L650	87-005-481-089		COIL,47UH J FLR50
MVR741	85-NF6-608-019		VR,50KBX2 W/S (M)
KEY C.B			
LED415	87-070-201-089		LED,SLP9118C-51-S-T1
LED416	87-070-201-089		LED,SLP9118C-51-S-T1
LED417	87-070-201-089		LED,SLP9118C-51-S-T1
S349	87-036-397-089		SW,TACT SKQNAB
S350	87-036-397-089		SW,TACT SKQNAB
S351	87-036-397-089		SW,TACT SKQNAB
S352	87-036-397-089		SW,TACT SKQNAB
S353	87-036-397-089		SW,TACT SKQNAB
AC C.B			
⚠C103	87-010-197-089		C-CAP,S 0.01-25 B
⚠PR101	86-026-682-089		PROTECTOR,10A 125V 251<EXCEPT G>
⚠PR102	86-026-682-089		PROTECTOR,10A 125V 251<EXCEPT G>
PT C.B			
⚠	82-304-743-019		TERMINAL,1P
⚠CF101	87-033-213-089		CLAMP FUSE SMK
⚠CF102	87-033-213-089		CLAMP FUSE SMK
⚠F109	87-035-366-019		FUSE,2.5A 250V T E/K
⚠PT1	86-NF4-657-019		PT,6NF-4 EKZ<EXCEPT G>
⚠PT1	86-NF4-655-019		PT,6NF-4 G<G>
DECK C.B			
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-036-378-010		SW, PUSH 1-1-1 SH2
SW2	87-036-378-010		SW, PUSH 1-1-1 SH2
SW3	87-036-378-010		SW, PUSH 1-1-1 SH2
SW4	87-036-378-010		SW, PUSH 1-1-1 SH2
SW5	87-036-378-010		SW, PUSH 1-1-1 SH2
SW6	87-036-378-019		SW, PUSH 1-1-1 SH2
SW8	87-036-378-019		SW, PUSH 1-1-1 SH2

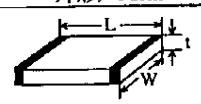
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
HEAD-1 C.B			
HEAD-2 C.B			

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

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



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

E C B

2SA1296
2SC3266
KTA1266
KTC3198

E C B

2SA952
2SA970
2SD655

E C B

DTA114
2SA933

E C B

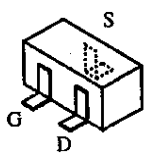
2SA1318
2SC3331

B C E

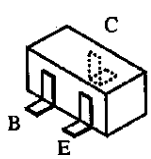
2SB1370

S G D

2SK246



2SK543

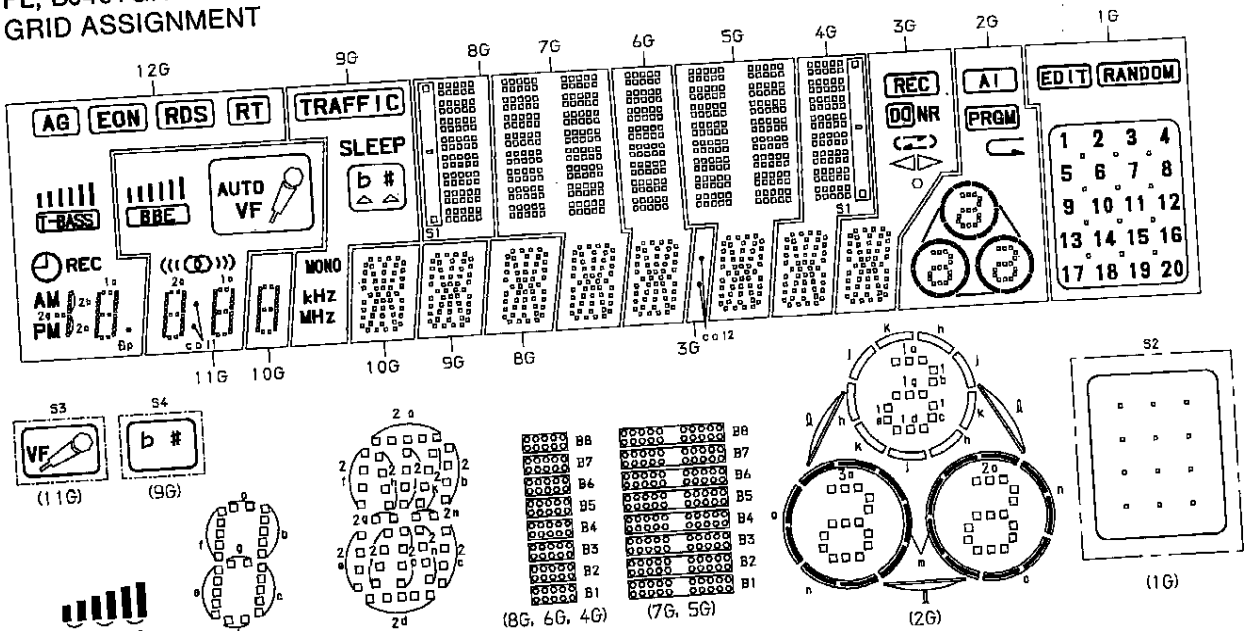


2SA1162
2SC2712
2SC2714
2SC3722
2SC3326

DTA144
DTA143
DTA124
DTC144

FL GRID ASSIGNMENT & ANODE CONNECTION

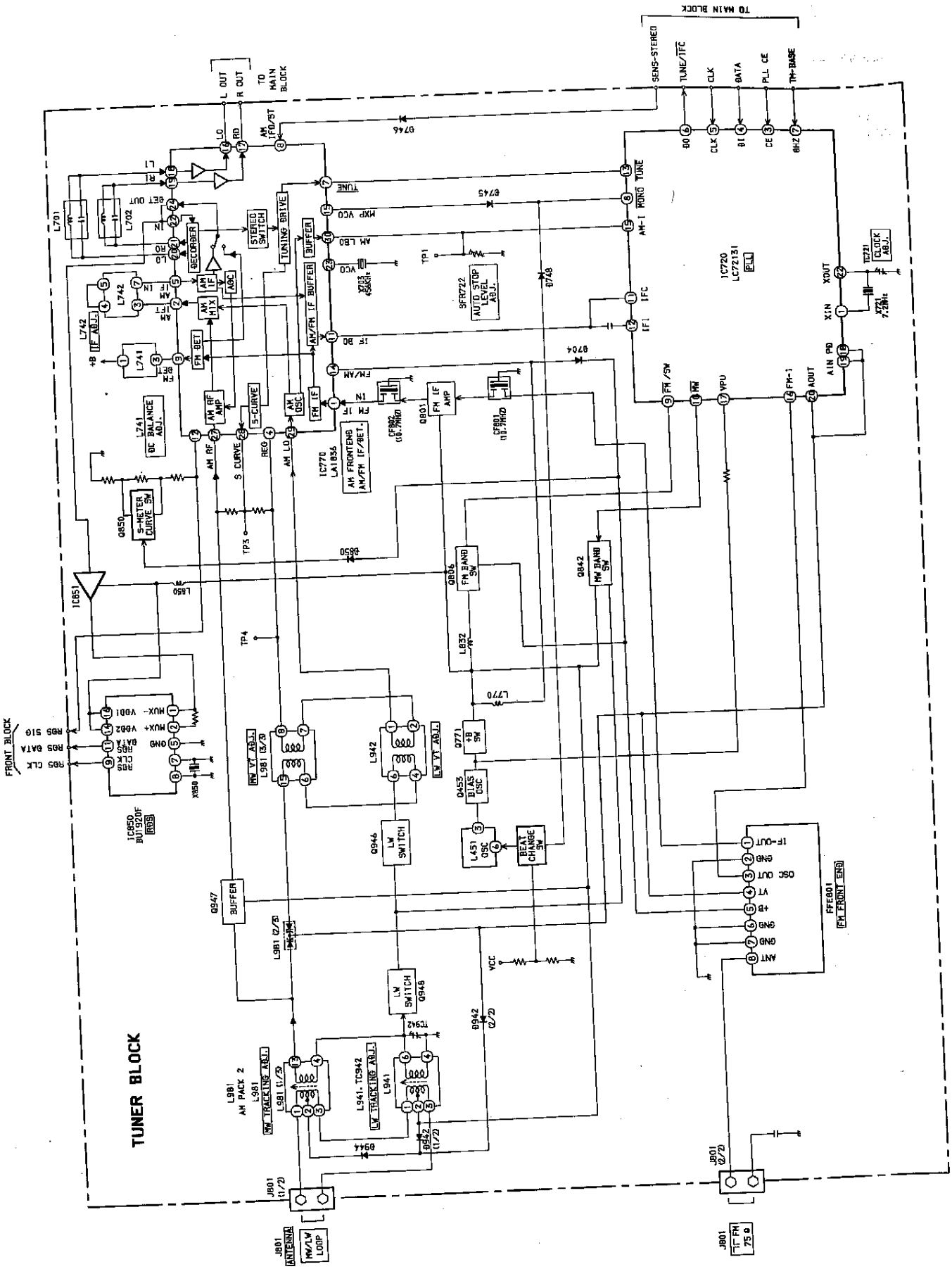
FL, BJ461GK
GRID ASSIGNMENT



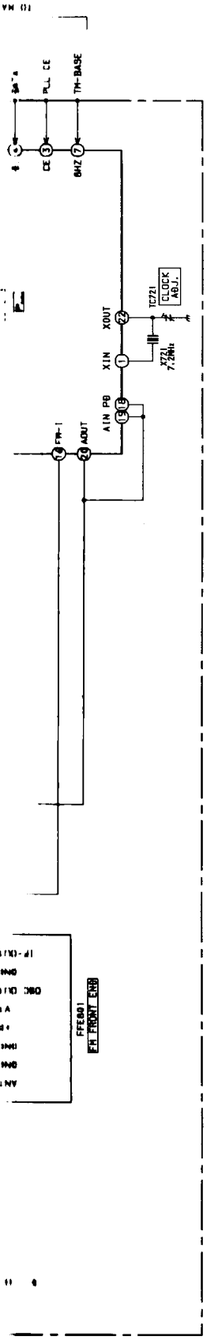
ANODE CONNECTION

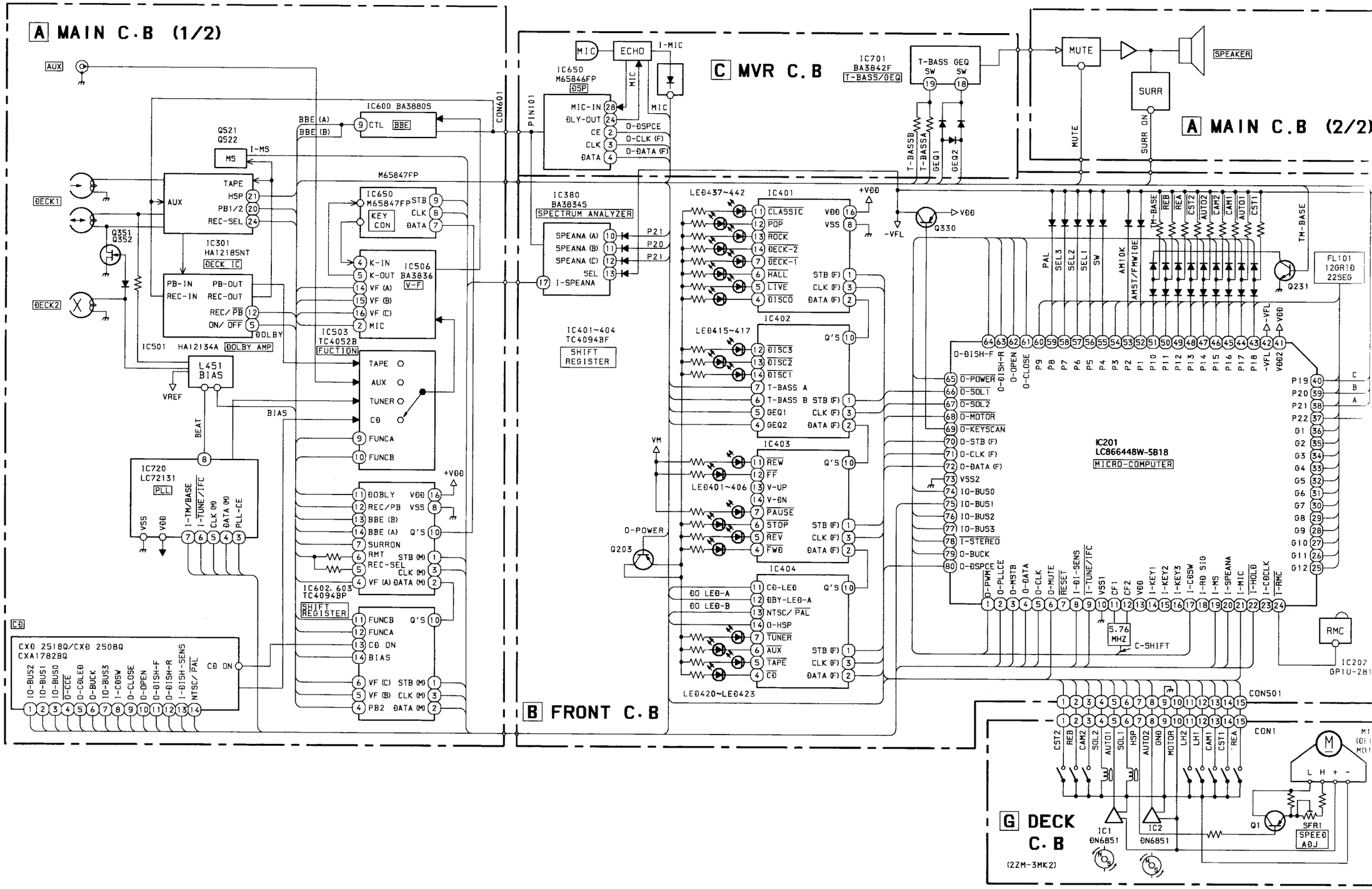
	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	2d	2d	2d	2d	2d	2d	2d	2d	n	20
P2	B2	B2	2n	2n	2n	2n	2n	2n	2n	2n	o	19
P3	B3	B3	2p	2p	2p	2p	2p	2p	2p	2p	3e	18
P4	RT	AUTO	2r	2r	2r	2r	2r	2r	2r	2r	3c	17
P5	RDS	S3	2e	2e	2e	2e	2e	2e	2e	2e	3a,3d,3g	16
P6	EON	col1 (DOWN)	2c	2c	2c	2c	2c	2c	2c	2c	3b	15
P7	AG	2a	2g	2g	2g	2g	2g	2g	2g	2g	2e	14
P8		2e	2m	2m	2m	2m	2m	2m	2m	2m	2c	13
P9	REC	2c	2f	2f	2f	2f	2f	2f	2f	2f	2a,2d,2g	12
P10	AM	2g	2b	2b	2b	2b	2b	2b	2b	2b	l	11
P11	2g	2f	2k	2k	2k	2k	2k	2k	2k	2k	j	10
P12	2b, 2c	2b	2j	2j	2j	2j	2j	2j	2j	2j	h	9
P13	PM	2a	2h	2h	2h	2h	2h	2h	2h	2h	k	8
P14	Dp	col1 (UP)	2a	2a	2a	2a	2a	2a	2a	2a	2b	7
P15	1d	1d	1d	MHz	B1	B1	B1	B1	B1	○	1e	6
P16	1e	1e	1e	KHz	B2	B2	B2	B2	B2	◁	1a,1d,1g	5
P17	1c	1c	1c	MONO	B3	B3	B3	B3	B3	▷	1c	4
P18	1g	1g	1g	△ (b)	B4	B4	B4	B4	B4	⊂	1b	3
P19	1f	1f	1f	△ (♯)	B5	B5	B5	B5	B5	⊃	m	2
P20	1b	1b	1b	SLEEP	B6	B6	B6	B6	B6	DD NR	AI	1
P21	1a	1a	1a	TRAFFIC	B7	B7	B7	B7	B7	REC		EDIT
P22	–	((◉))	–	–	B8	B8	B8	B8	B8	col2	PRGM	RANDOM
P23	T-BASS	–	–	–	S1	–	–	–	S1	▬	–	S2
P24	–	BBE	–	–	–	–	–	–	–	–	–	–
P25	–	–	–	S4	–	–	–	–	–	–	–	–

BLOCK DIAGRAM – 1 (TUNER)



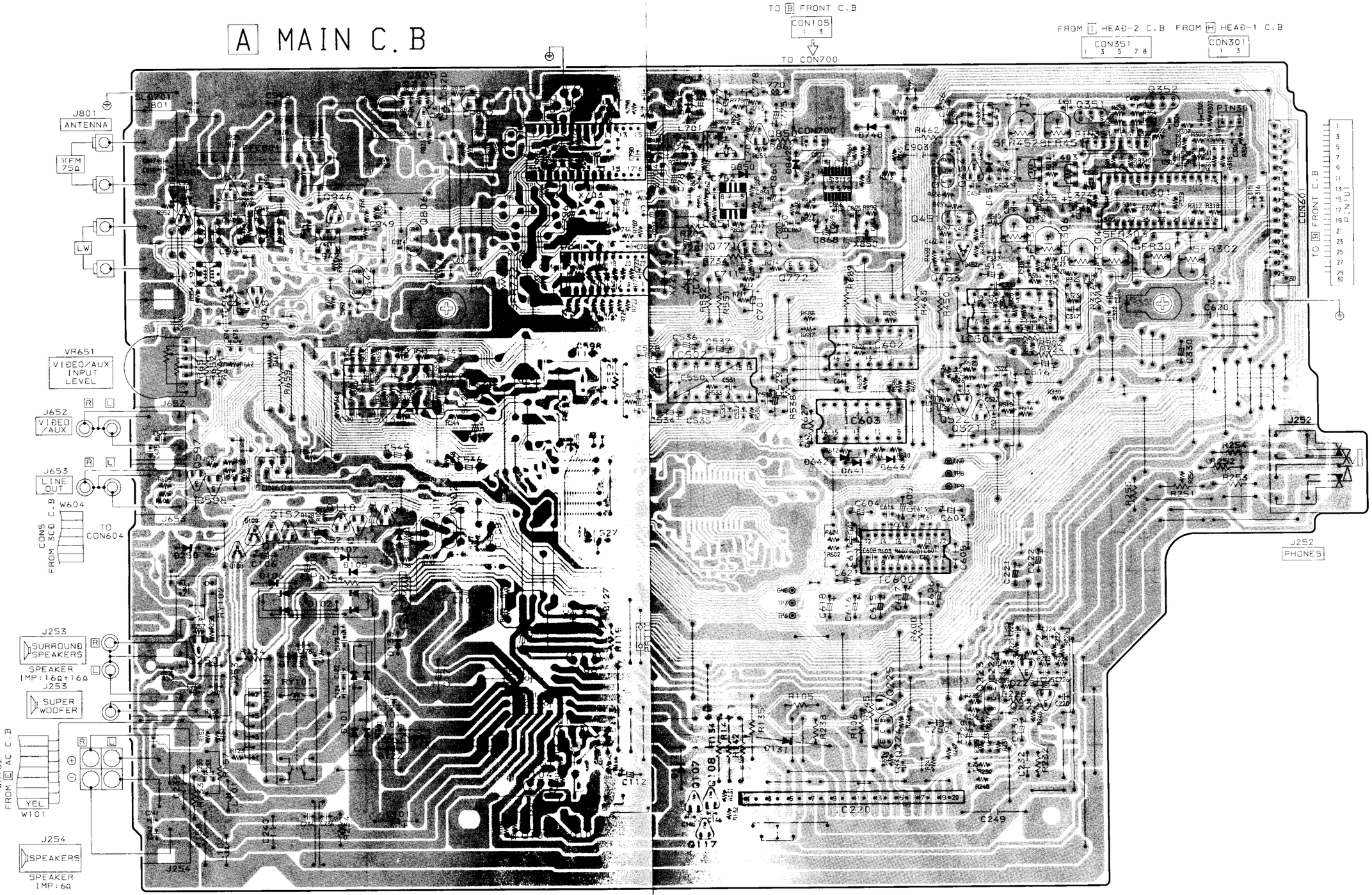
BLOCK DIAGRAM – 2 (MAIN)



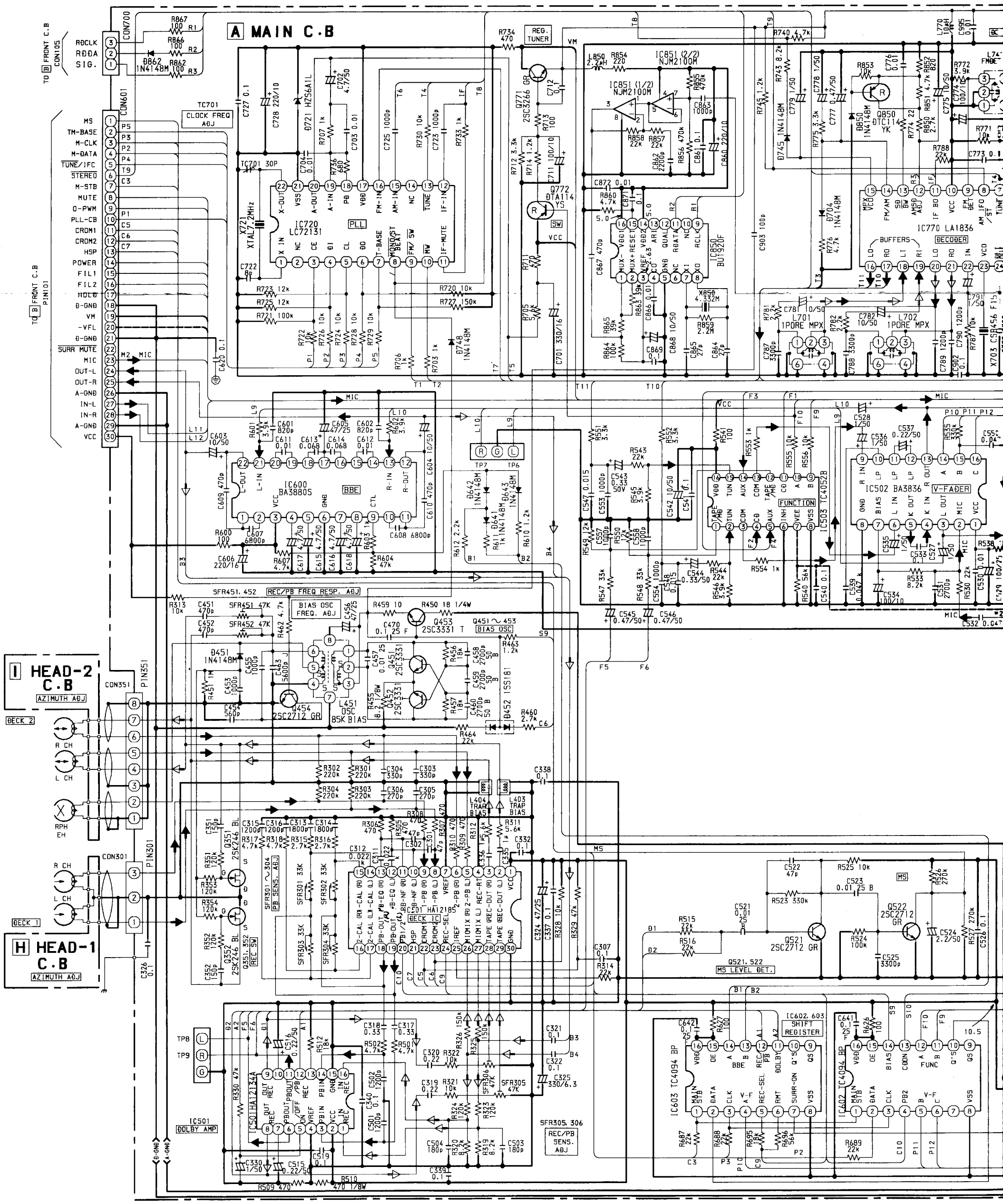


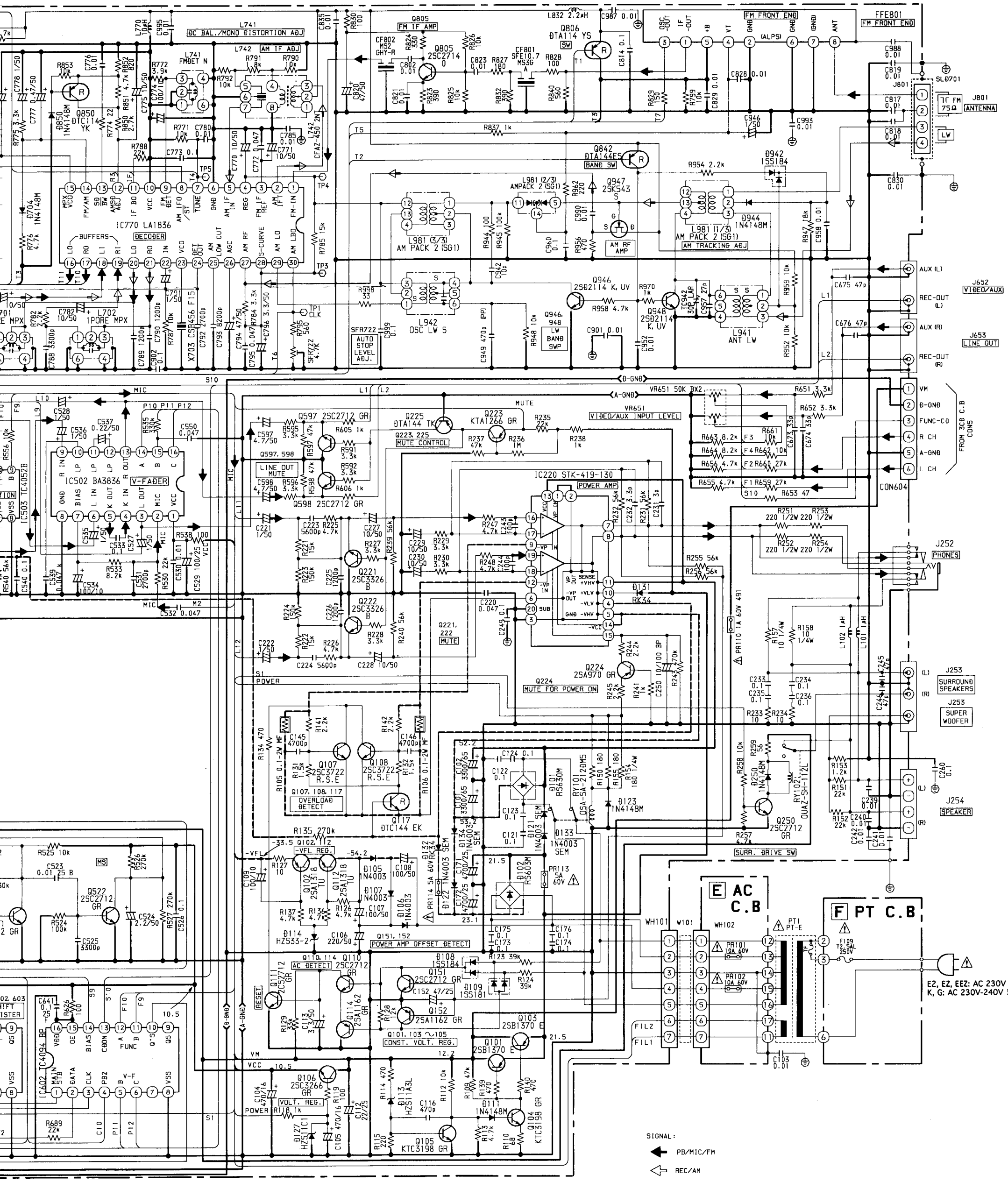
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J



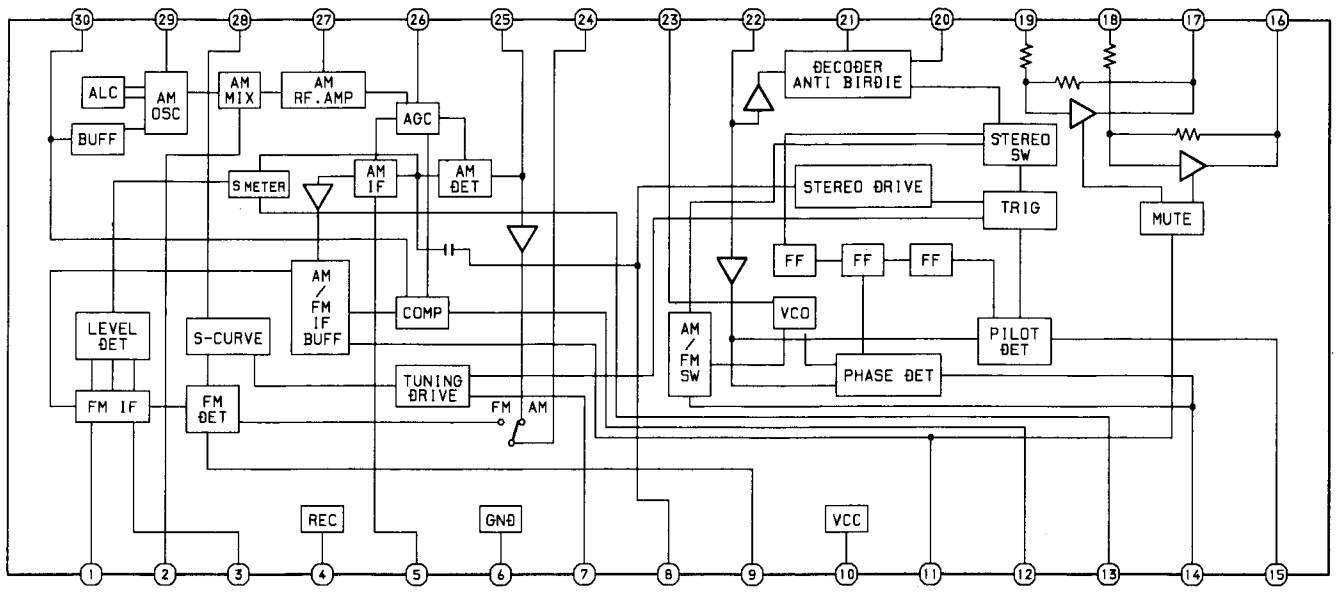
SCHEMATIC DIAGRAM – 1 (MAIN)



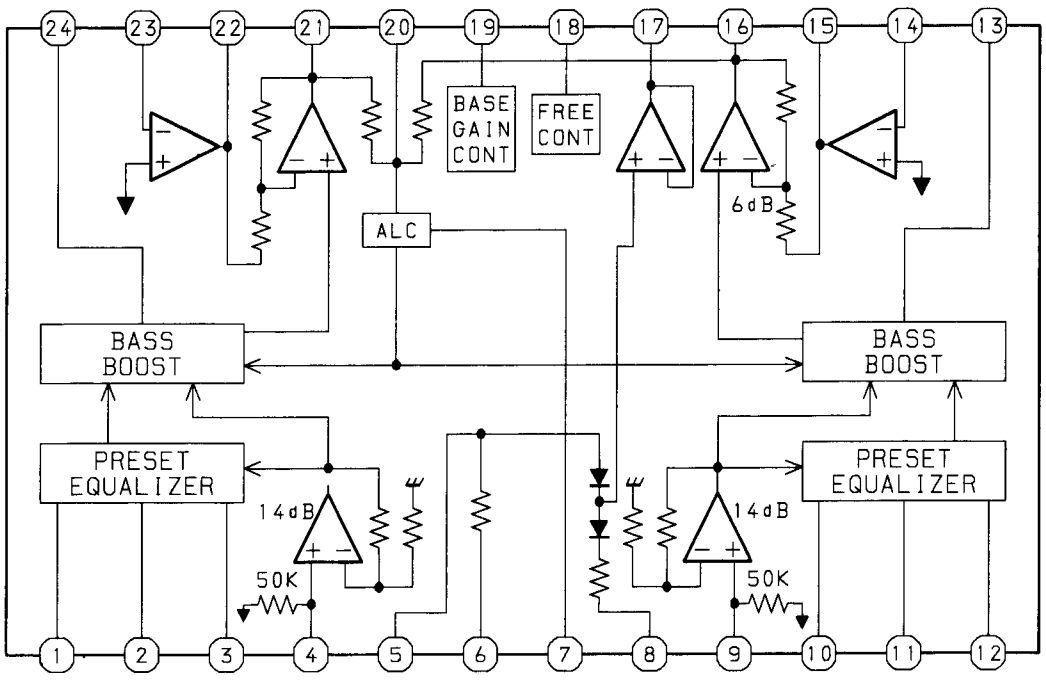

IC770 LA1836
DECODER
BUFFERS
IC502 BA3836
V-FADER
IC503 TC4052B
IC4094 BP
MAIN
IC220 STK-419-130
POWER AMP
Q597 2SC2712 GR
Q598 2SC2712 GR
Q597, 598
LINE OUT MUTE
Q221 2SC3326 B
Q222 2SC3326 B
Q221, 222 MUTE
Q223, 225 MUTE CONTROL
Q224 2SA970 GR
Q224 MUTE FOR POWER ON
Q842 DTA144ES
BAND SW
Q805 FM IF AMP
Q805 2SC2714 0
Q806 DTA114 YS
SW
Q850 DTC114 YK
Q947 2SK543
AM RF AMP
Q946 2SD2114 K, UV
Q948 2SD2114 K, UV
Q946, 948 LW BAND SWP
Q107 2SC3722 R.S.E
Q108 2SC3722 R.S.E
OVERLOAD DETECT
Q117 DTC144 EK
Q102, 112 -VFL REG.
Q151, 152 POWER AMP OFFSET DETECT
Q110, 114 Q110 AC DETECT
Q111 2SC2712 GR
Q151 2SC2712 GR
Q152 2SA1162 GR
Q103 2SB1370 E
Q101 2SB1370 E
Q106 2SC3266 GR
VOLT. REG.
Q105 KTC3198 GR
Q104 KTC3198 GR
Q250 2SC2712 GR
Q225 DTA144 TK
Q223 KTA1266 GR
MUTE
Q102 2SA1318 TU
Q112 2SA1318 TU
L741 FMDET N
L741 DC BAL./MONO DISTORTION ADJ
L742 AM IF ADJ
L742 CFAZ-450 2N
L981 (2/3) AMPACK 2 (SG1)
L981 (3/3) AM PACK 2 (SG1)
L981 (1/3) AM PACK 2 (SG1)
AM TRACKING ADJ
L942 OSC LW S
L941 ANT LW
L832 2.2µH
L702 1PORE MPX
X703 CSB456 F15
SFR722 AUTO STOP LEVEL ADJ.
FFE801 FM FRONT END
FM FRONT END (ALPS)
SL0701
J801 ANTENNA
J652 VIDEO/AUX
J653 LINE OUT
J252 PHONES
J253 SURROUND SPEAKERS
J253 SUPER WOOFER
J254 SPEAKER
CON604
FROM 3CB C.B CONS
VR651 50K BX2
VR651 VIDEO/AUX INPUT LEVEL
S1 POWER
S10
MIC
MUTE
RESET
SURR. DRIVE SW
E AC C.B
F PT C.B
WH101
WH102
W101
PT1 PT-E
PR101 10A 60V
PR102 10A 60V
PR110 1A 60V 491
PR113 5A 60V
PR114 5A 60V
D-GND
A-GND
VM
VCC
-VFL
E2, EZ, EEZ: AC 230V 50HZ
K, G: AC 230V-240V 50HZ
SIGNAL :
PB/MIC/FM
REC/AM

IC BLOCK DIAGRAM – 1

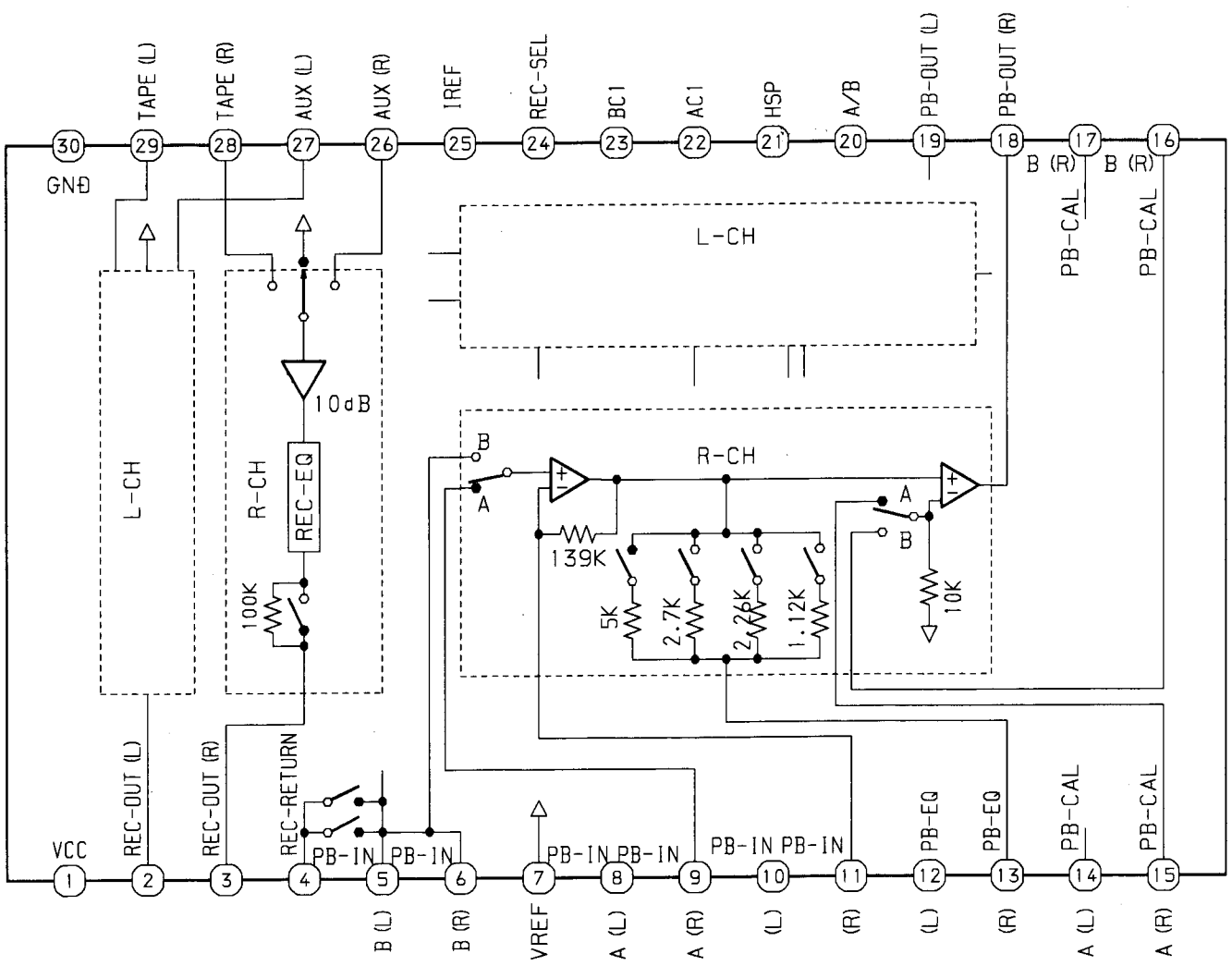
IC, LA1836



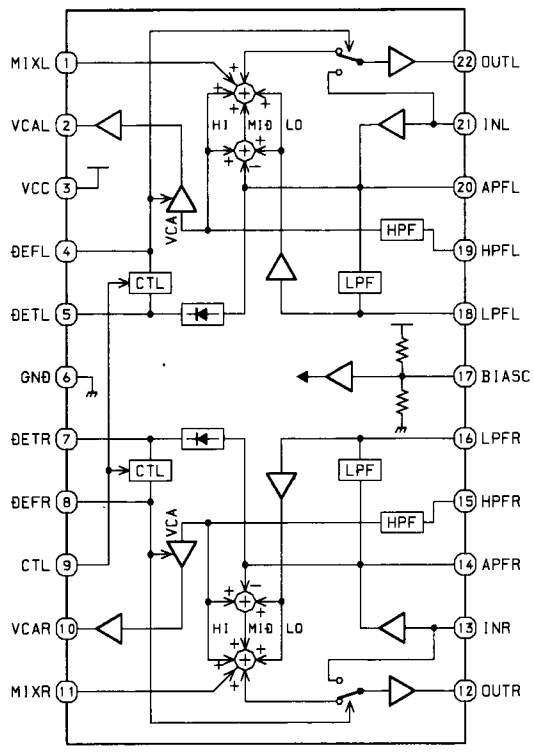
IC, BA3842F



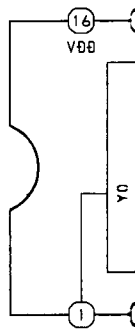
IC, HA12185NT



IC, BA3880



IC, TC405

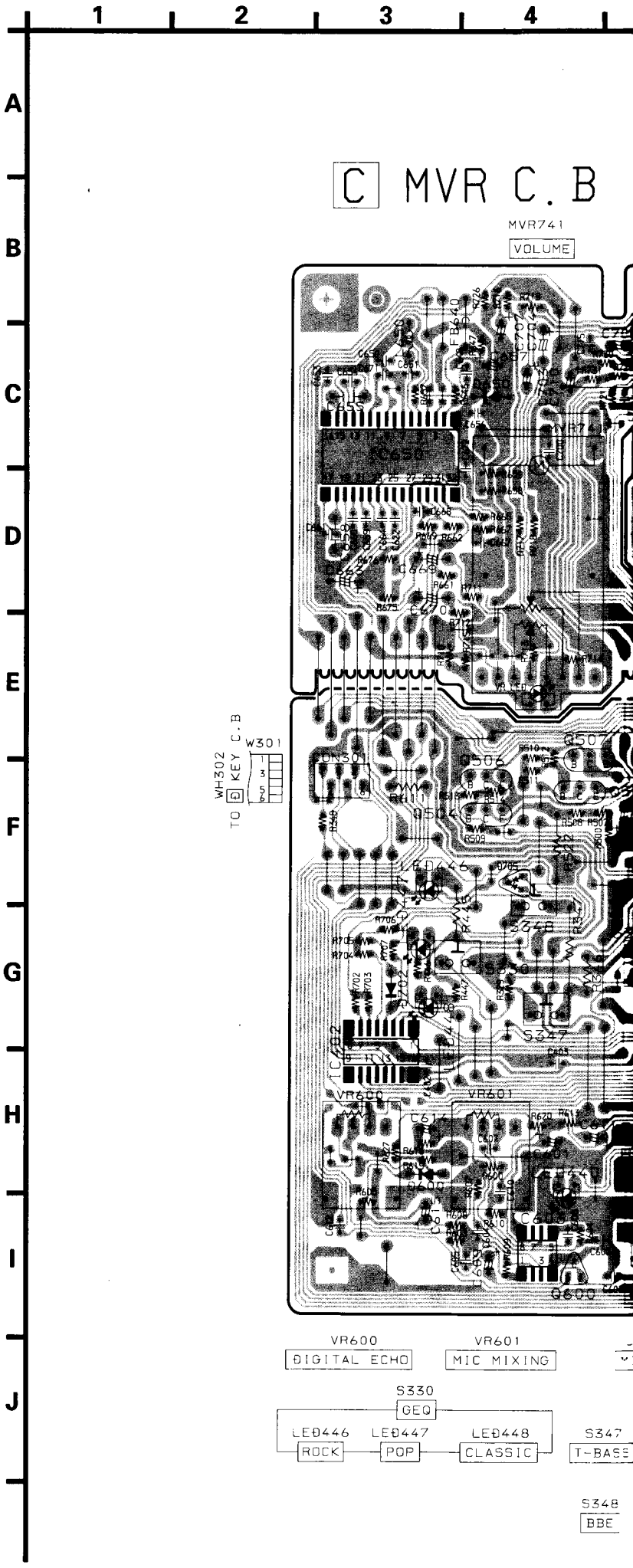


TRUTH TA

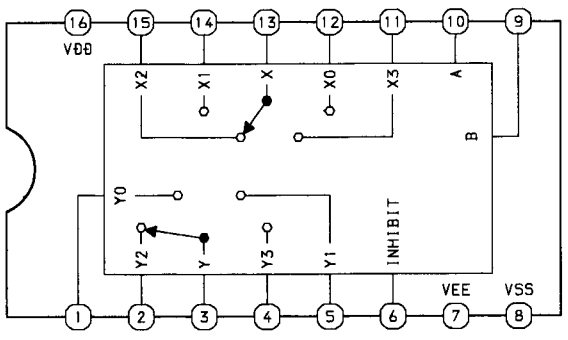
CONTROL	
INHIBIT	
L	L
L	
L	
L	
H	

L:LOW
H:HIGH
H:IRRE

WIRING – 2 (FRONT)



IC, TC4052BP

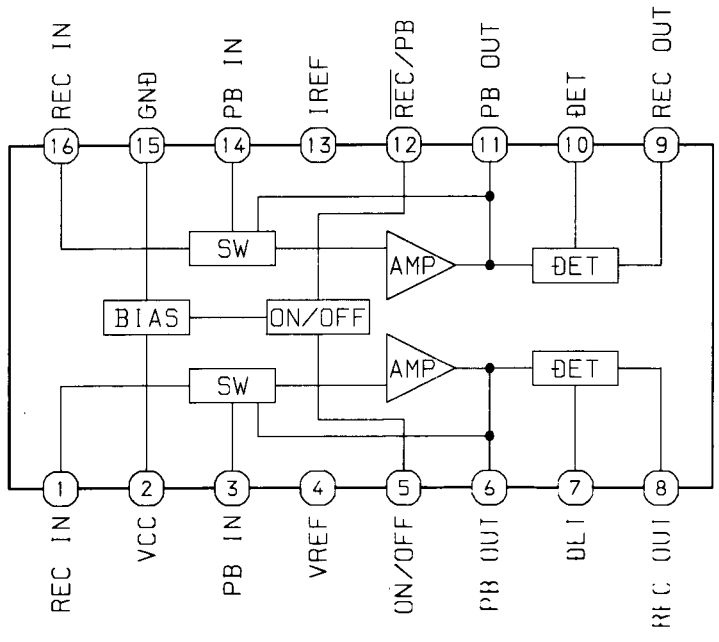


TRUTH TABLE

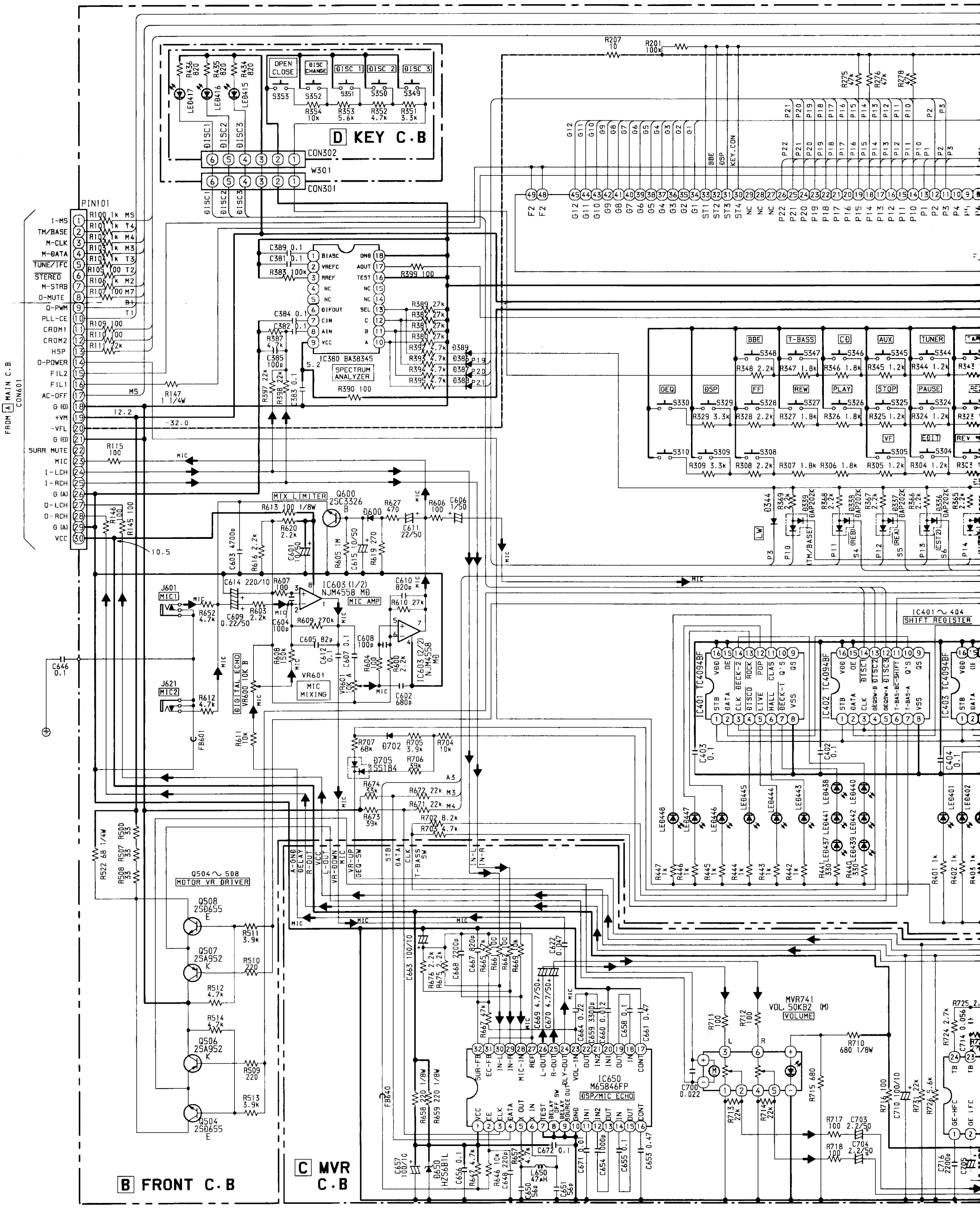
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A		
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

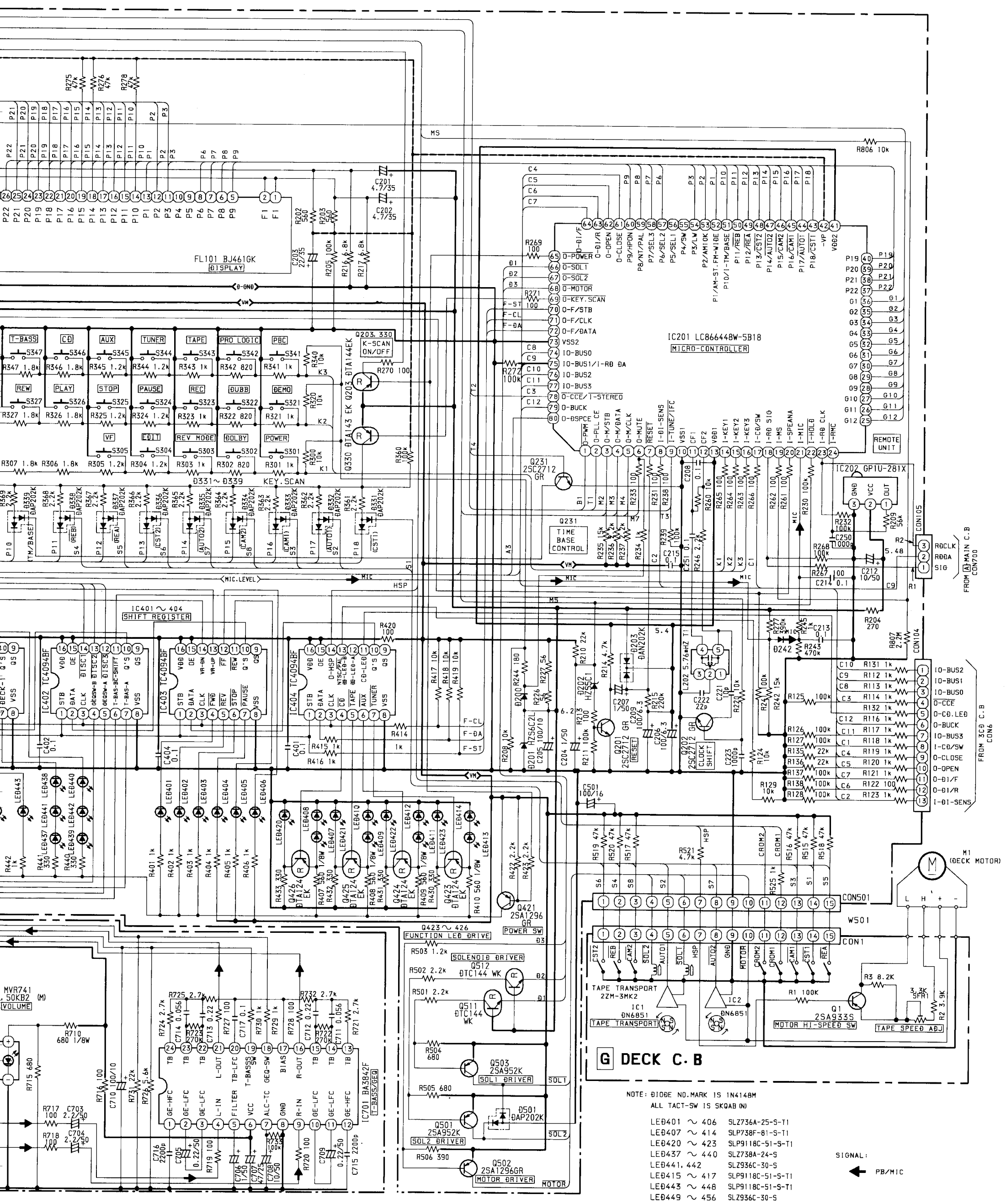
L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

IC, HA12134A



SCHEMATIC DIAGRAM – 2 (FRONT)





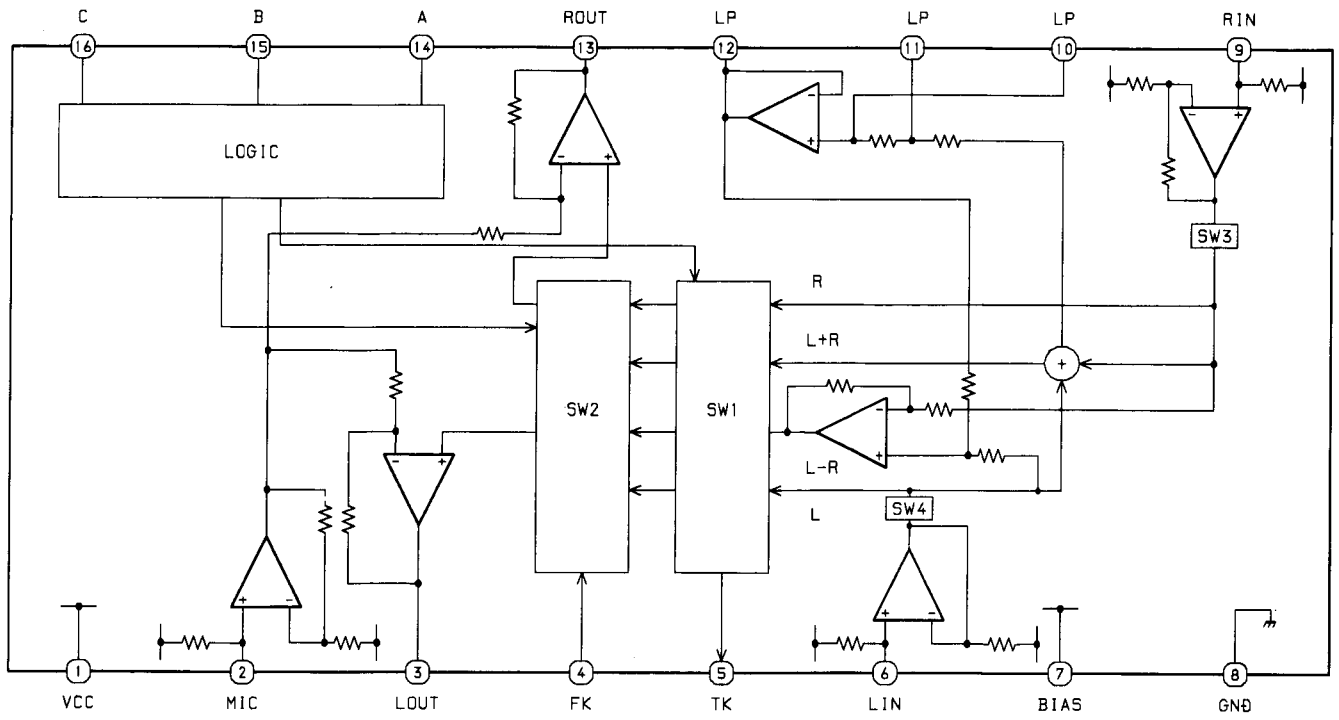
NOTE: DIODE NO.MARK IS 1N4148M
ALL TACT-SW IS SKQAB (N)

LED401	~ 406	SLZ736A-25-S-T1
LED407	~ 414	SLP738F-81-S-T1
LED420	~ 423	SLP9118C-51-S-T1
LED437	~ 440	SLZ738A-24-S
LED441, 442		SLZ936C-30-S
LED415	~ 417	SLP9118C-51-S-T1
LED443	~ 448	SLP9118C-51-S-T1
LED449	~ 456	SLZ936C-30-S

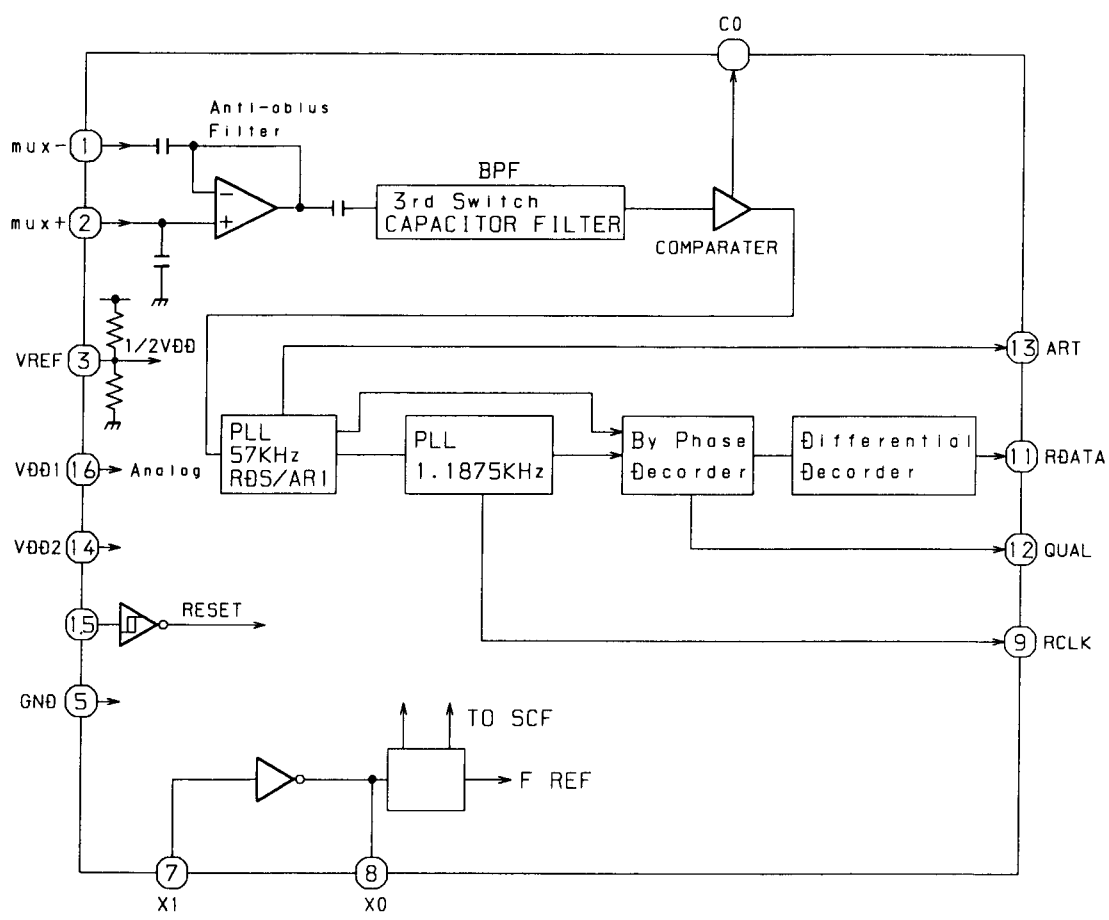
SIGNAL:
PB/MIC

IC BLOCK DIAGRAM – 2

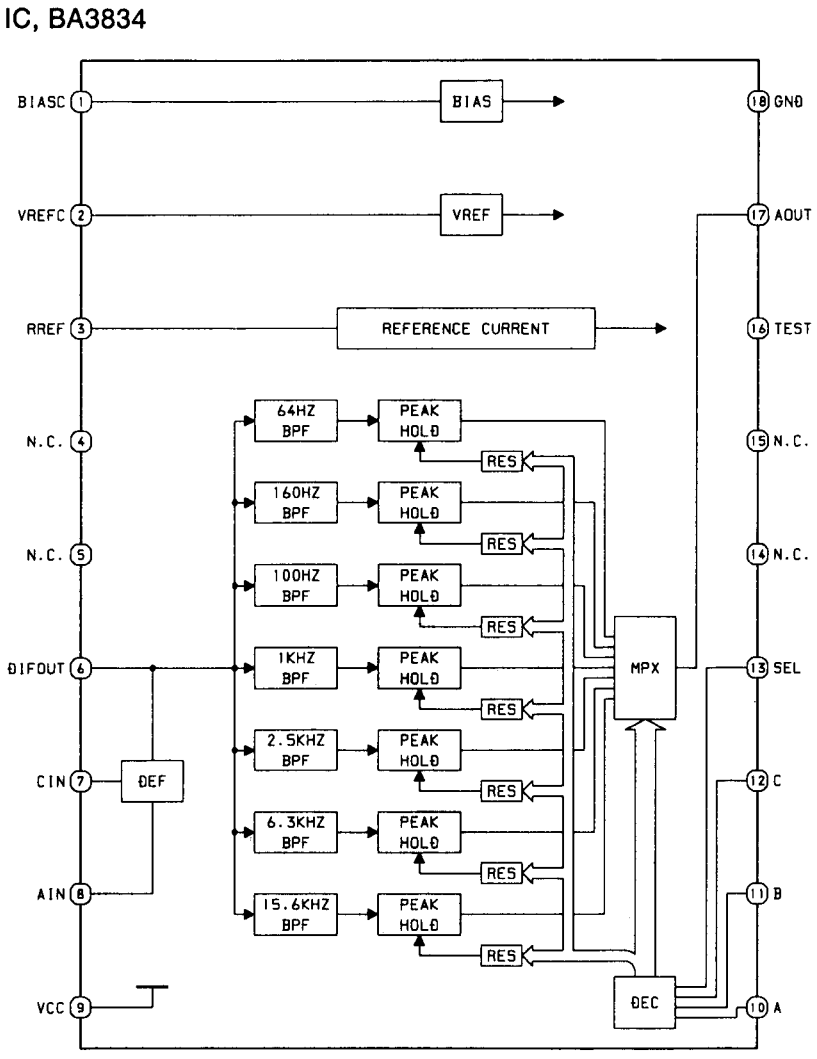
IC, BA3836



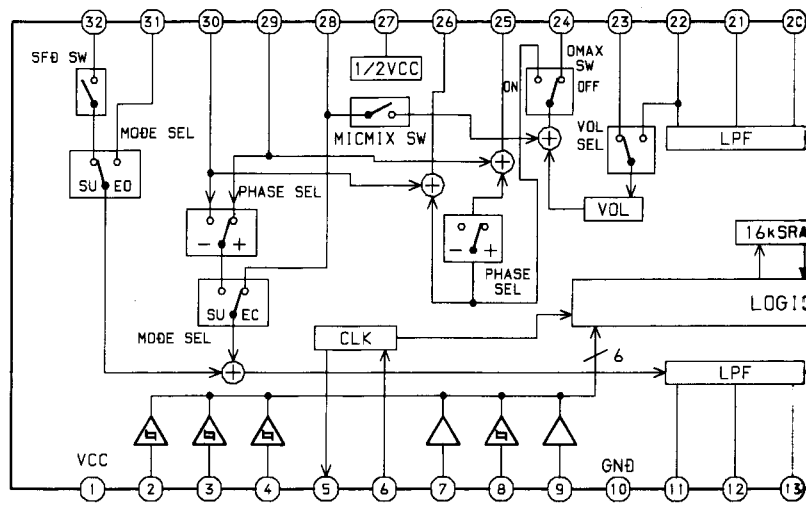
IC, BU1921FS



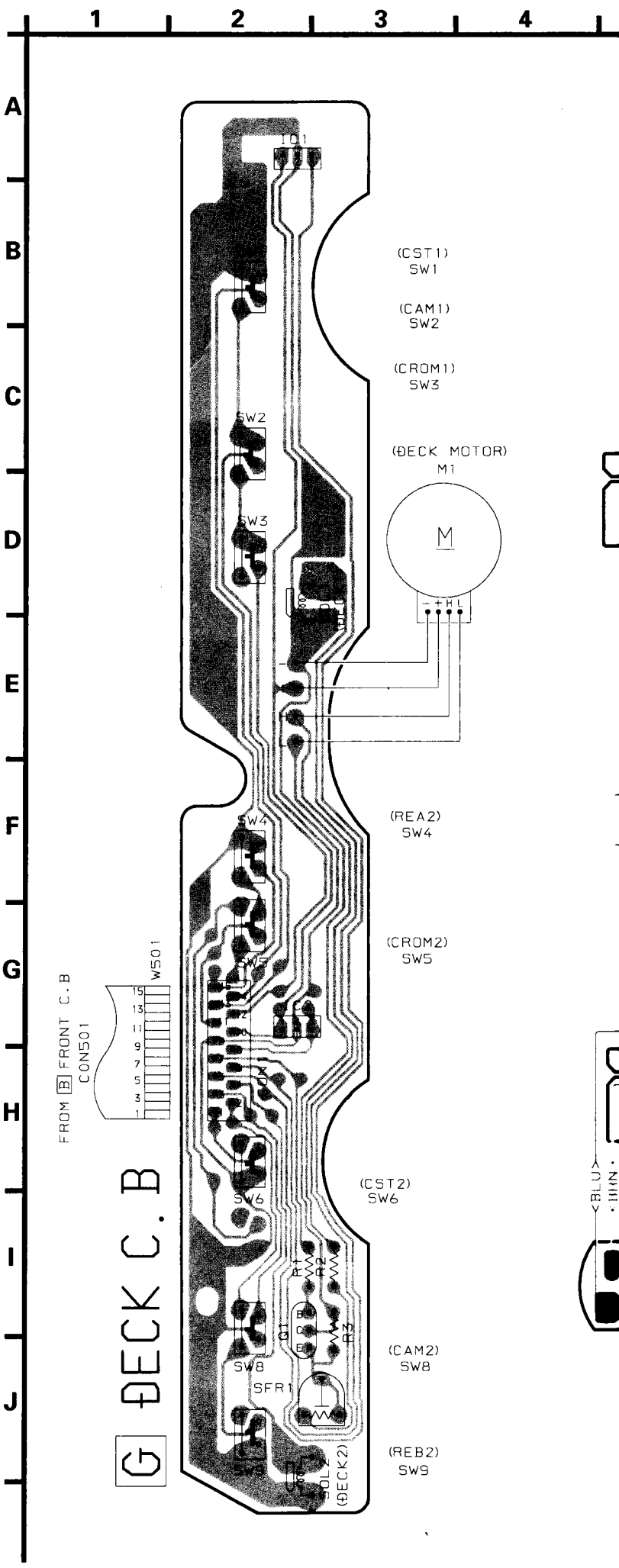
IC, BA3834

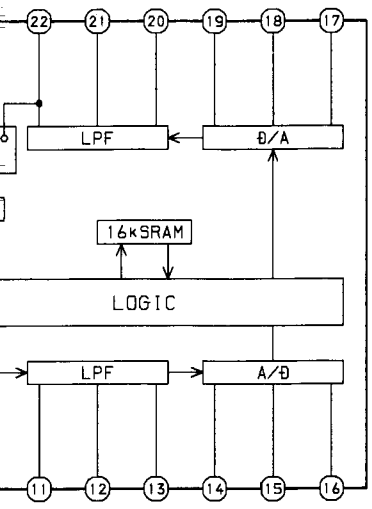


IC, M65846FP–600D

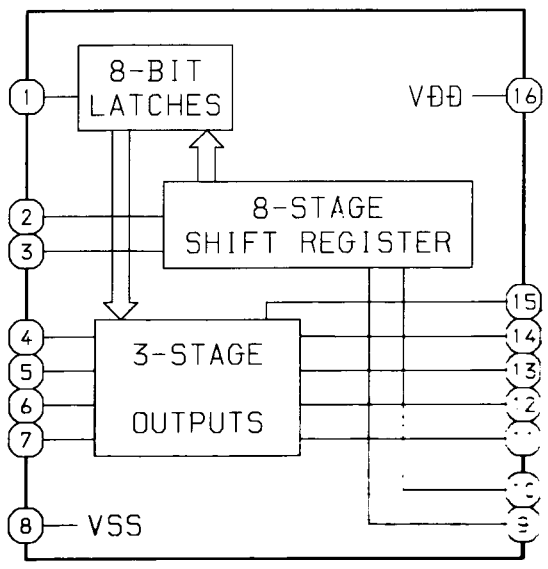


WIRING – 3 (DECK)

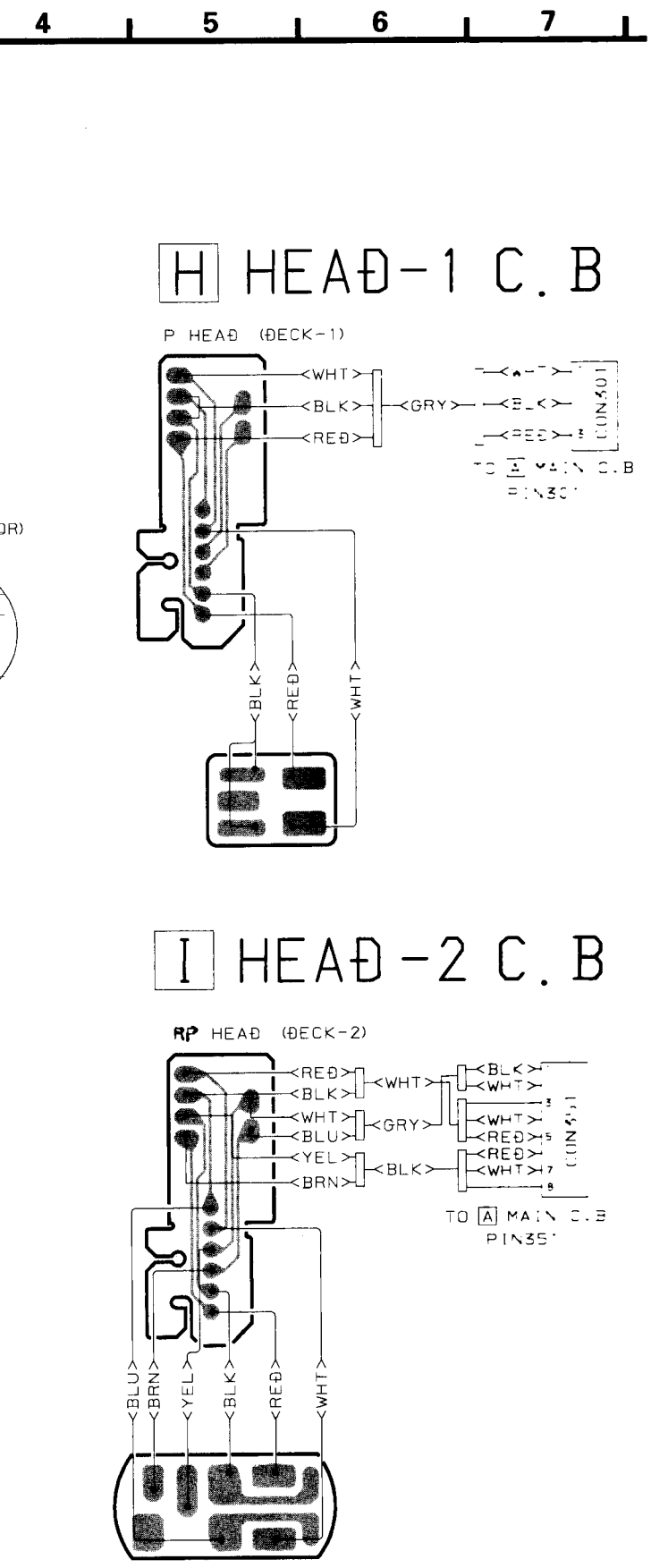


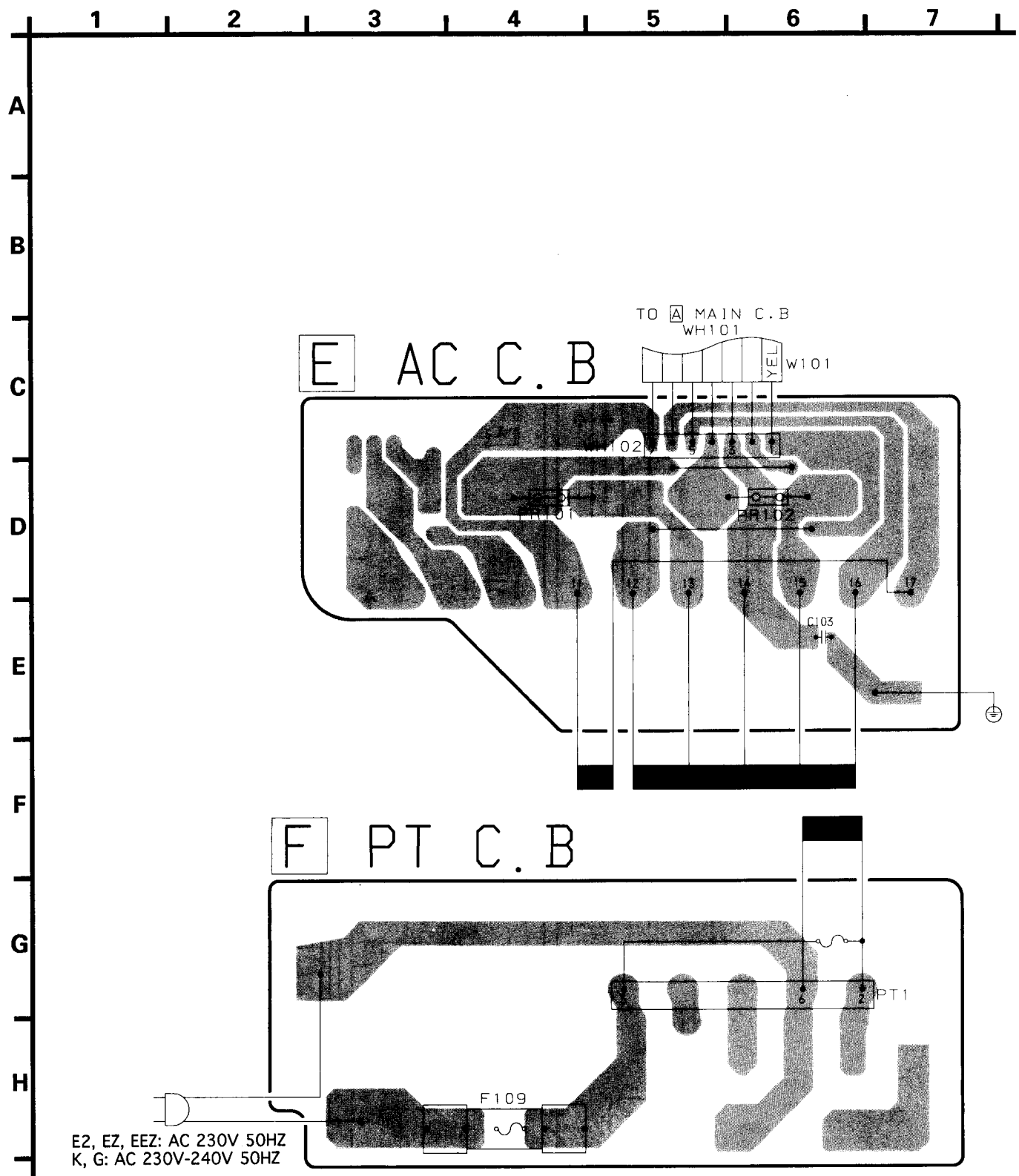


IC, TC4094BP



WIRING – 4 (PT & AC)





IC DESCRIPTION

IC, LC866448V-5B18

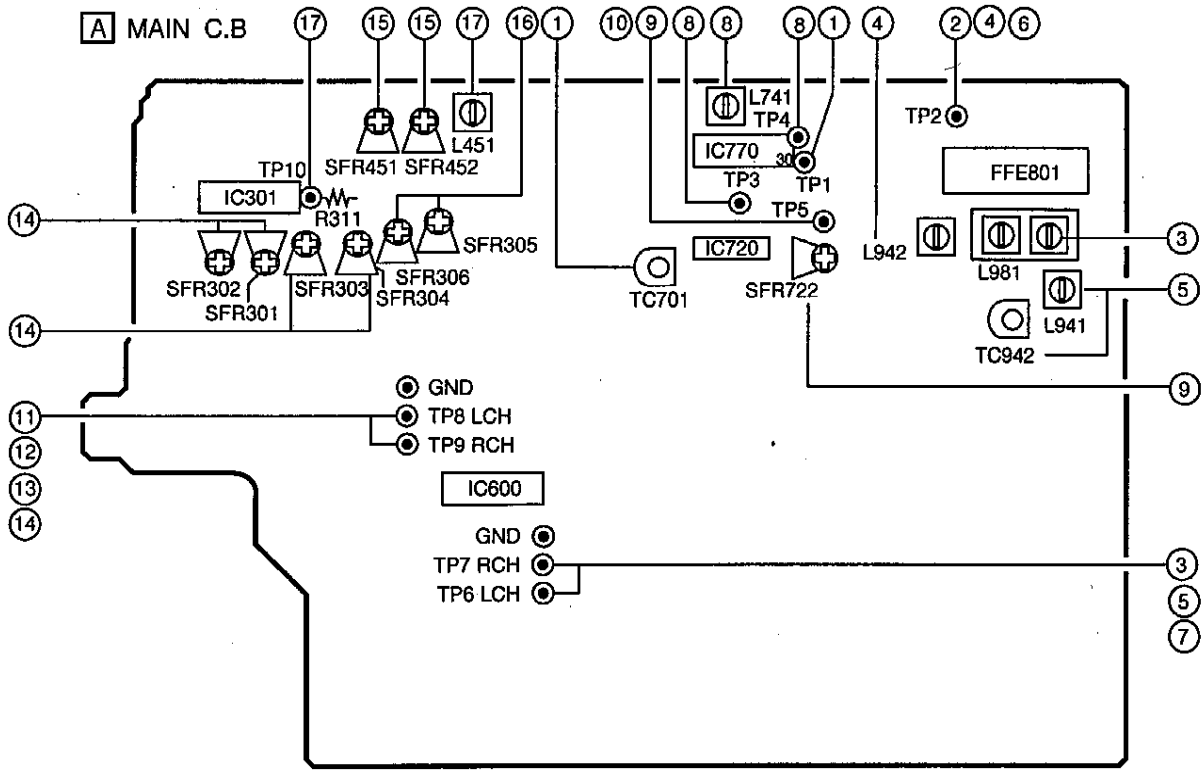
Pin No.	Pin Name	I/O	Description
1	$\overline{\text{O-PWM}}$	O	Not used.
2	O-PLL CE	O	PLL IC chip enable.
3	O-M/STB	O	Main shift register data latch strobe output.
4	O-M/DATA	O	Main shift register, PLL/Key control/DSP related data output.
5	O-M/CLK	O	Main shift register, PLL/Key control/DSP related clock.
6	O-MUTE	O	System mute output.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-DI-SENS	I	CD turntable photo sensor A/D converter input.
9	I-$\overline{\text{TUNE/IFC}}$	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input.
10	VSS1	-	GND.
11,12	CF1, 2	-	5.76 MHz oscillator circuit.
13	VDD1	-	Power supply input.
14~16	I-KEY1 - 3	I	Key input. (A/D)
17	I-CD/SW	I	CD mechanical switch A/D converter input.
18	I-RD SIG	I	RDS signal input. (Tuner)
19	I-MS	I	Deck music sensor signal input.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MIC	I	Microphone input for auto VF display.
22	I-$\overline{\text{HOLD}}$	I	Power failure detected input "L" to stop clock and maintain memory.
23	I-RD CLK	I	RDS clock input. (Tuner)
24	$\overline{\text{I-RMC}}$	I	System remote control signal input.
25~36	G12~G1	O	FL grid output G12~G1.
37	P22/I-RDS	O	FL segment output P22/diode inputting for RDS.
38	P21/O-SPEANA A	O	FL segment output P21, spectrum analyzer band switching output.
39	P20/O-SPEANA B	O	FL segment output P20, spectrum analyzer band switching output.
40	P19/O-SPEANA C	O	FL segment output P19, spectrum analyzer band switching output.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input (-34.5V) for FL display.
43	P18	O/I	FL segment output P18.
44	P17	O/I	FL segment output P17.
45	P16	O/I	FL segment output P16.
46	P15/$\overline{\text{CAM2}}$	O/I	FL segment output P15, DECK2 cam switch data input.
47	P14/$\overline{\text{AUTO2}}$	O/I	FL segment output P14, DECK2 auto stop signal input.
48	P13/$\overline{\text{CST2}}$	O/I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/$\overline{\text{REA}}$	O/I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/$\overline{\text{REB}}$	O/I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/I-TM/BASE	O/I	FL segment output P10, reference clock input for timer watch.
52	P1/AM-ST,FM-W	O/I	FL segment output P1, AM stereo, FM-WIDE mode data input to diode.
53	P2/AM10K	O/I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/LW	O/I	FL segment output P3, LW mode data input to diode.
55	P4/SW	O/I	FL segment output P4, SW mode data input to diode.

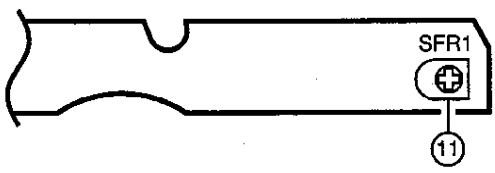
Pin No.	Pin Name	I/O	Description
56	P5	O	FL segment output P5.
57	P6	O	FL segment output P6.
58	P7	O	FL segment output P7.
59	P8	O	FL segment output P8.
60	P9	O	FL segment output P9.
61	O-CLOSE	O	CD tray close data output.
62	O-OPEN	O	CD tray open data output.
63	O-DI/R	O	CD turntable reverse rotation output.
64	O-DI/F	O	CD turnable forward rotation output.
65	O-$\overline{\text{POWER}}$	O	System power supply ON/OFF output.
66	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output (DECK 1).
67	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output (DECK 2).
68	O-$\overline{\text{MOTOR}}$	O	DECK motor output.
69	O-$\overline{\text{KEY·SCAN}}$	O	Switch scan timing output.
70	O-F/STB	O	Front shift register, data latch strobe output.
71	O-F/CLK	O	Front shift register, data transfer clock output.
72	O-F/DATA	O	Front shift register, data output.
73	VSS2	-	GND.
74	IO-BUS 0	I/O	CD IC control and data bus input output.
75	IO-BUS 1/I-RD DA	I/O	CD IC control and data bus input output. RDS data input (TUNER).
76	IO-BUS 2	I/O	CD IC control and data bus input output.
77	IO-BUS 3	I/O	CD IC control and data bus input output.
78	$\overline{\text{O-CCE/I-STEREO}}$	I/O	CD IC control chip enable output. Tuner stereo detected input.
79	O-BUCK	O	CD IC control and data bus clock output.
80	O-DSP CE	O	DSP data latch strobe output.

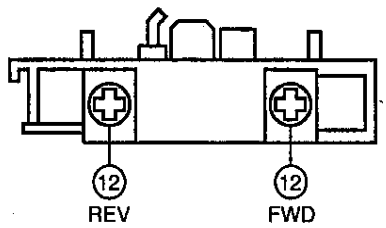
IC, LC72131

<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">–</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 (LC866448W-5B18) 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 (LC866448W-5B18).</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>IF IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>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 Adjustment
   Settings : • Test point : TP1 (CLK IC770 pin30)
   • Adjustment location : TC701
   Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz ± 0.01kHz.

2. MW VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW 1602kHz and check that the test point is 6.8V ± 1.0V.

3. MW Tracking Adjustment
   Settings : • Test point : TP6, TP7
   • Adjustment location : L981
   Method : The level at 999kHz is adjusted to MAX by L981.

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

5. LW Tracking Adjustment
   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.

6. FM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.2V(108.0MHz).

7. FM Tracking Check
Settings : • Test point : TP6, TP7
Method : Set to FM 98.0MHz and check that the test point is 6dB ± 6dB.

8. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4
• Adjustment location : L741
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V. Next, check that the distortion is less than 1.3%.

9. Auto Stop Level Adjustment
Settings : • Test point : TP5
• Adjustment location : SFR722
• Input level : 18dB
Method : Set to FM 98.0 MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

10. Auto Stop Level Check
MW
Settings : • Test point : TP5
• Input level : 50dB
Method : Set to MW 999kHz and check that the test point is 40 ~ 65 dB.

FM
Settings : • Test point : TP5
• Input level : 20dB
Method : Set to FM 98.0MHz and check that the test point is 20 dB ± 5 dB.

< DECK SECTION >

11. 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.

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

13. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA–300
• Test point : TP8, TP9
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is ± 2dB.

14. 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 300mV.

15. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA–602
• Test point : TP8, TP9
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 210mV. 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.

16. 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 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 21mV ± 0.5dB.

17. Bias OSC Frequency Adjustment
Settings : • Test tape : TTA–601
• Test point : TP10 (R311)
• Adjustment location : L451
Method : Set to the REC mode. Adjust L451 so that the frequency counter of the test point becomes minimum.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

S/N 50dB Quieting sensitivity : 31 dB ± 5 dB
[87.5 / 98.0 / 108.0 MHz (G)]
S/N 46dB Quieting sensitivity : 34dB ± 6dB
[87.5 / 98.0 / 108.0 MHz
(Except G)]

Signal to noise ratio :	More than 64dB (98.0 MHz)
Distortion :	Less than 2.0% (98.0 MHz)
Stereo separation :	More than 20dB (98.0 MHz)
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity :	57dB ± 5dB (at 603 kHz)
(S/N 20 dB)	53dB ± 5dB (at 999 / 1404 kHz)
Signal to noise ratio :	More than 36dB (999 kHz)
Distortion :	Less than 1.5% (at 999 kHz)
Intermediate frequency :	450 kHz

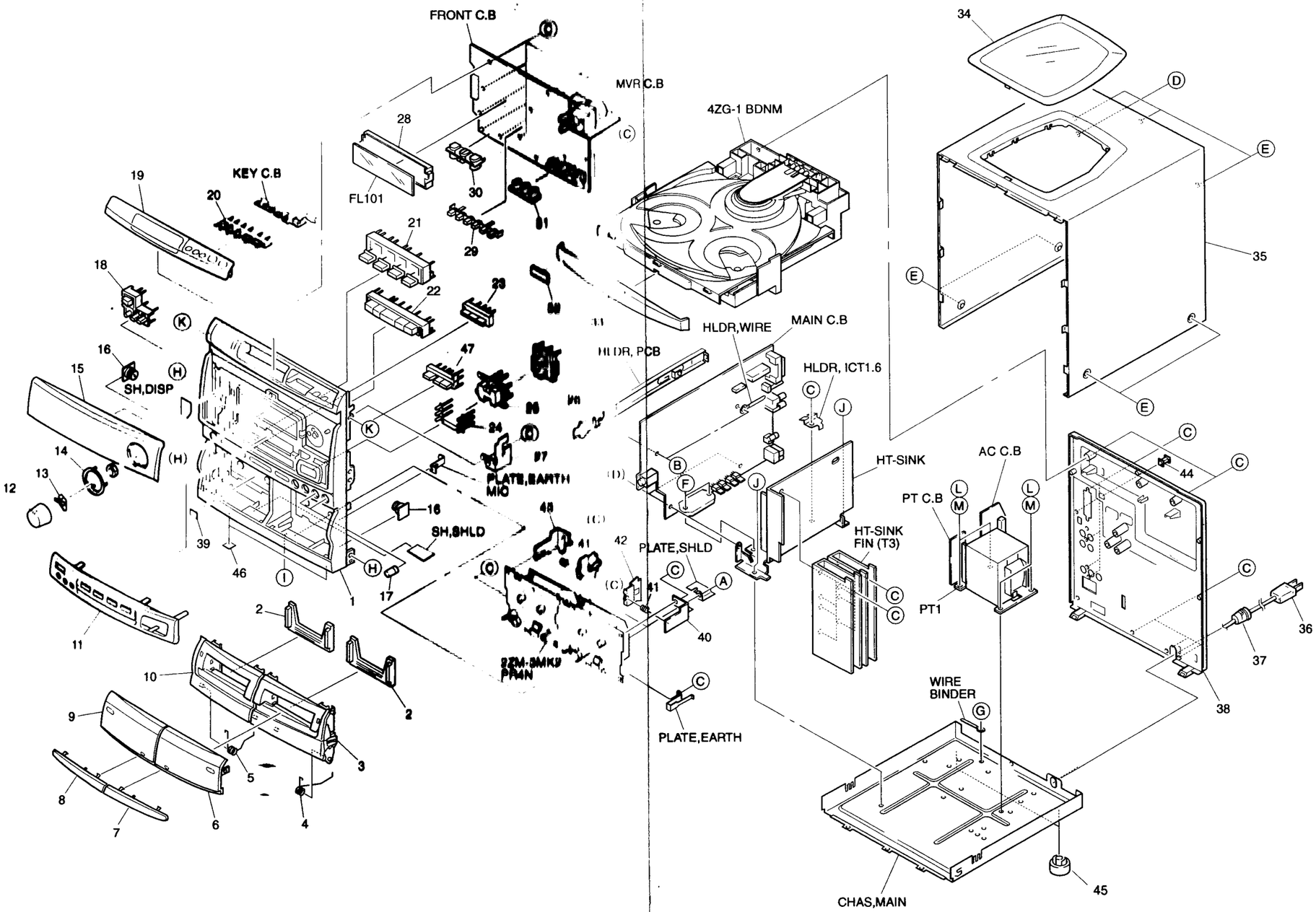
<LW SECTION>

Sensitivity :	64dB ± 5dB (at 144 kHz)
(S/N 20dB)	62dB ± 5dB (at 198 kHz)
	60dB ± 5dB (at 290 kHz)
Signal to noise ratio :	More than 36dB (198 kHz)
Distortion :	Less than 1.4% (at 198 kHz)
ntermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB Output level :	300mV ± 1dB (SP OUT 2V)
REC/PB Output level :	210mV ± 1dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Noise level (PB) :	Less than 1.1mV (DOLBY NR ON / OFF CrO2 Vol MAX.) Less than 1.8mV (DOLBY NR ON / OFF NORM. Vol MAX.)
Noise level (REC/PB) :	Less than 1.2mV (DOLBY NR ON / OFF CrO2 SP OUT 2V) Less than 2.0mV (DOLBY NR ON / OFF NORM. SP OUT 2V)
Crosstalk :	More than 60dB (1kHz, 0VU)
Channel separation :	More than 30dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz)
Test tape :	NORMAL : TTA-602 CrO2 : TTA-615

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL

If can't understand

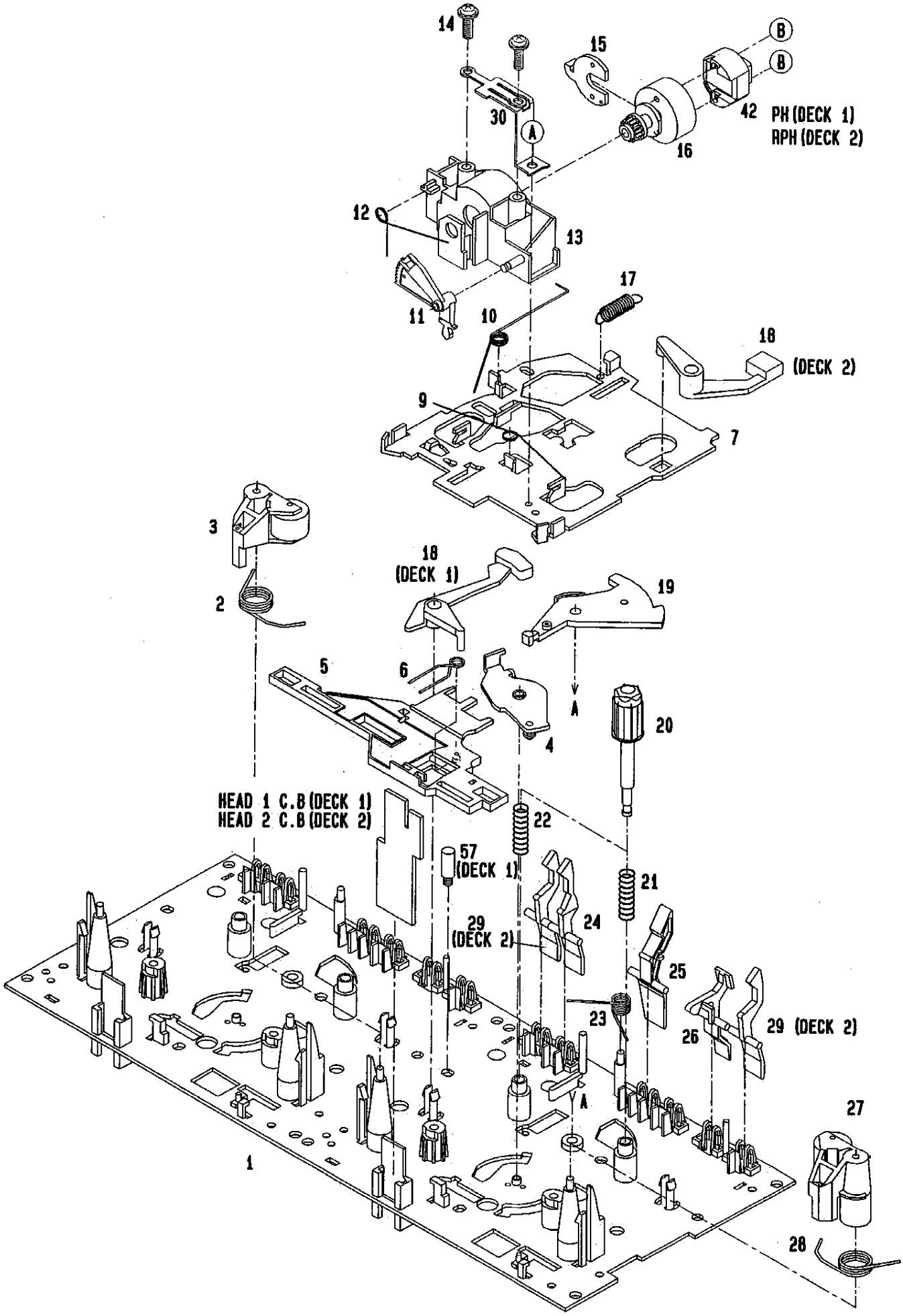
REF. NO.	PART NO.
*1	86-MP4-04
1	86-MP4-04
2	86-MP6-04
3	86-MP4 0
3	86-MP4 0
3	86-MPM 0
4	82-MP5 J
5	82-MP5 J
6	86-MP4 0
6	86-MP4 0
7	86-MP4 0
7	86-MP4 0
8	86-MP4 0
8	86-MP4 0
9	86-MP4 0
9	86-MP4 0
10	86-MP4 0
10	86-MP4 0
10	86-MPM 0
11	86 MP4
11	86-MP4 0
12	86-MP4 0
12	86-MP4 0
13	86-MP4 0
14	86-MP4
14	86-MP4 0
15	86-MP4 0
15	86-MP4
16	87-041
17	86-MP4
18	86 MP4
18	86-MP4 0
19	86-MP4 0
19	86-MP4 0
20	86 MP4
20	86-MP4 0
21	86 MP4
21	86-MP4 0
22	86 MP4
22	86 MP4
23	86 MP4
23	86 MP4
23	86 MPM
24	86 MP4
25	86 MP4
25	86 MP4 0
26	86 MP4
26	86 MP4
27	81 MP5
27	81 MP5

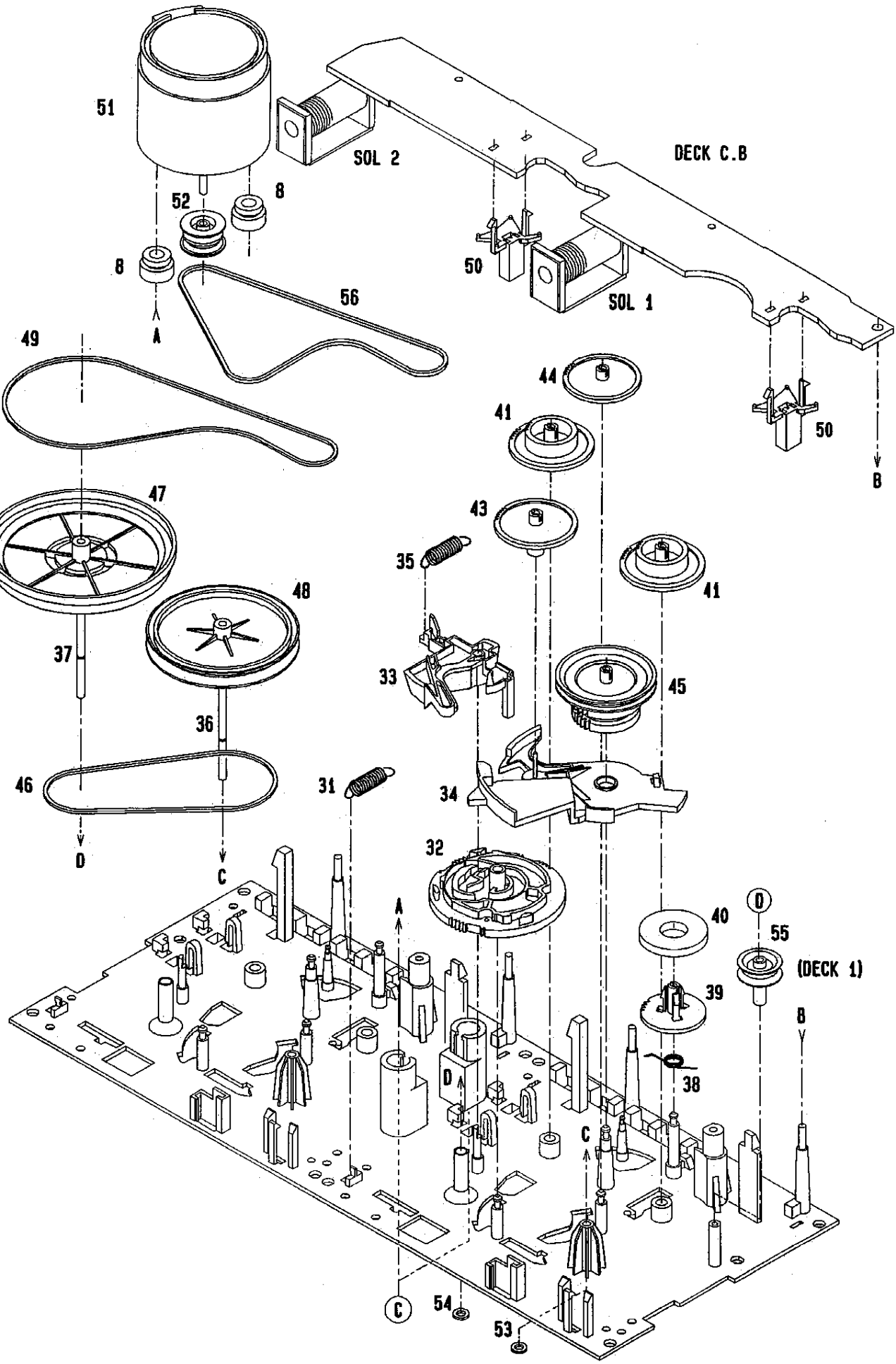
MECHANICAL PARTS LIST 1/1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
*1	86-NF4-042-019		CABI,FR EZ<EZ,K,G,EEZ,E2>
1	86-NF4-043-01S		CABI,FR EZTS<929[ST]EZ>
2	86-NF6-061-019		REFLECTOR,CASS
3	86-NF4-051-01S		BOX,CASS 2EU<EZ,K,EEZ,E2>
3	86-NF4-051-019		BOX,CASS 2EU<G>
3	86-NFR-004-01S		BOX,CASS 2TS<929[ST]EZ>
4	82-NF5-219-019		SPR-T,EJECT 2 (SIN)
5	82-NF5-218-019		SPR-T,EJECT 1 (SIN)
6	86-NF4-033-019		WINDOW,BOX 2<G>
6	86-NF4-033-01S		WINDOW,BOX 2<EXCEPT G>
7	86-NF4-008-019		PANEL,CASS 2<G>
7	86-NF4-008-01S		PANEL,CASS 2<EXCEPT G>
8	86-NF4-007-019		PANEL,CASS 1<G>
8	86-NF4-007-01S		PANEL,CASS 1<EXCEPT G>
9	86-NF4-032-019		WINDOW,BOX 1<G>
9	86-NF4-032-01S		WINDOW,BOX 1<EXCEPT G>
10	86-NF4-050-019		BOX,CASS 1EU<G>
10	86-NF4-050-01S		BOX,CASS 1EU<EZ,K,EEZ,E2>
10	86-NFR-003-01S		BOX,CASS 1TS<929[ST]EZ>
11	86-NF4-006-01S		PANEL,FR<EXCEPT G>
11	86-NF4-006-019		PANEL,FR<G>
12	86-NF4-017-01S		KNOB,RTRY VOL<EXCEPT G>
12	86-NF4-017-019		KNOB,RTRY VOL<G>
13	86-NF4-035-019		LENS,VOL
14	86-NF4-009-019		RING,VOL<G>
14	86-NF4-009-01S		RING,VOL<EXCEPT G>
15	86-NF4-048-019		WINDOW,DISP 4EX<EZ,K,G,EEZ,E2>
15	86-NF4-034-01S		WINDOW,DISP 4TS<929[ST]EZ>
16	87-063-165-019		OIL-DMPR 150
17	86-NF4-049-019		KNOB,RTRY MIC
18	86-NF4-012-11S		KEY,POWER<EXCEPT G>
18	86-NF4-012-119		KEY,POWER<G>
19	86-NF4-030-01S		WINDOW,CD<EXCEPT G>
19	86-NF4-030-019		WINDOW,CD<G>
20	86-NF4-013-01S		KEY,CD<EXCEPT G>
20	86-NF4-013-019		KEY,CD<G>
21	86-NF4-021-01S		KEY ASSY,FUN<EXCEPT G>
21	86-NF4-021-019		KEY ASSY,FUN<G>
22	86-NF4-014-019		KEY,PLAY<G>
22	86-NF4-014-01S		KEY,PLAY<EXCEPT G>
23	86-NF4-016-019		KEY,DOLBY<G>
23	86-NF4-016-01S		KEY,DOLBY<EZ,K,EEZ,E2>
23	86-NFR-007-01S		KEY,DOLBY TS<929[ST]EZ>
24	86-NF4-037-019		LENS,GEQ
25	86-NF4-015-019		KEY,DSP<G>
25	86-NF4-015-01S		KEY,DSP<EXCEPT G>
26	86-NF4-019-01S		KEY,BBE<EXCEPT G>
26	86-NF4-019-019		KEY,BBE<G>
27	83-NF5-207-019		HLDR,FFC<G>
27	83-NF5-208-018		HLDR,FFC G<EXCEPT G>
28	83-NF5-202-019		GUIDE FL
29	86-NF4-202-019		GUIDE,PLAY
30	85-NF5-210-119		GUIDE,LED
31	85-NF5-211-119		GUIDE,LED R
32	82-NE6-067-019		BADGE AIWA 30N
33	86-NF4-063-019		PANEL,TRAY EX<EZ,K,G,EEZ,E2>
33	86-NFR-005-01S		PANEL,TRAY TS<929[ST]EZ>
34	86-NF6-007-018		WINDOW,TOP<EXCEPT G>
34	86-NF6-007-019		WINDOW,TOP<G>
35	86-NF6-002-019		CABI,STEEL<G>
35	86-NF6-057-018		CABI,STEEL G<EZ,K,EEZ,E2>
35	86-NFT-005-01S		CABI,STEEL TS<929[ST]EZ>
⚠ 36	87-050-016-018		AC CORD ASSY,E<EXCEPT K,G>
⚠ 36	87-050-081-119		AC CORD ASSY,G<G>
⚠ 36	87-050-091-018		AC CORD ASSY,K<K>
37	87-085-185-010		BUSHING,AC CORD E
*38	86-NF4-095-019		PANEL,REAR E2BNE<E2>
38	86-NF4-085-019		PANEL,REAR EZBNE<EZ,EEZ>
38	86-NF4-097-019		PANEL,REAR EZSTNE<929[ST]EZ>
38	86-NF4-087-019		PANEL,REAR GBNM<G>
38	86-NF4-086-019		PANEL,REAR KBNE<K>
39	81-532-080-019		LBL,CASS-COMPT
40	82-NF5-227-019		HLDR,LOCK 2N
41	82-NF5-228-019		SPR-C,LOCK
42	82-NF5-229-019		PLATE,LOCK
43	82-NF5-226-019		HLDR,LOCK 1N
44	84-ZG1-245-019		CAP,OPTICAL
45	87-085-221-019		FOOT,H 13.5
46	80-VT1-202-019		FELT,12.5-15.5-2
47	86-NF4-020-019		KEY,RDS<EZ,K,G,EEZ,E2>
47	86-NFR-008-01S		KEY,RDS TS<929[ST]EZ>
A	87-571-032-419		VIT+2-3
B	87-078-084-019		BVTT+3-6 W,CONVEX
C	87-067-703-019		BVT2+3-10 (W/O SLOT)
D	87-067-633-019		BVT2+3-8 W/CONVEX
E	87-067-641-019		UTT2+3-8 W/O SLOT BLK
F	87-067-698-019		BVT 2+3-18 (W/O SLOT)
G	87-571-092-419		VIT+3-4
H	87-591-094-419		QIT + 3 - 6 GOLD
I	87-067-689-019		BVTT+3-8
J	87-067-566-019		VFTT +3-6
K	87-721-097-419		QT2+3-12 GLD
L	87-067-975-019		S-SCREW IT+4-8
M	87-067-747-019		W,4.3-14-1

TAPE MECHANISM EXPLODED VIEW 1/1



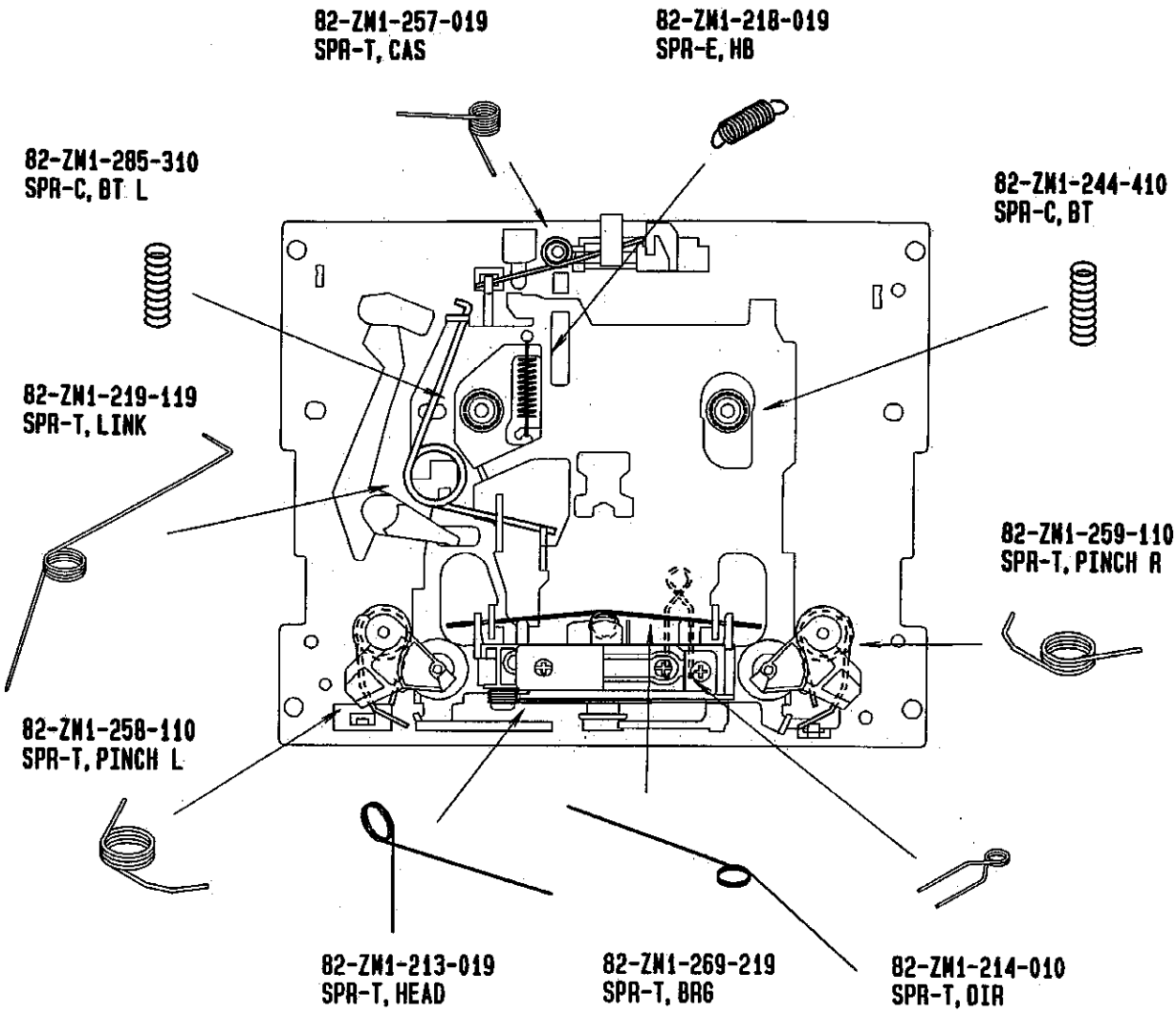

51
SOL 2
DECK C.B
52
8
8
50
56
SOL 1
A
49
44
41
50
B
47
43
35
41
48
37
33
45
36
46
31
34
D
C
32
A
40
D
55
(DECK 1)
39
B
38
D
C
C
54
53

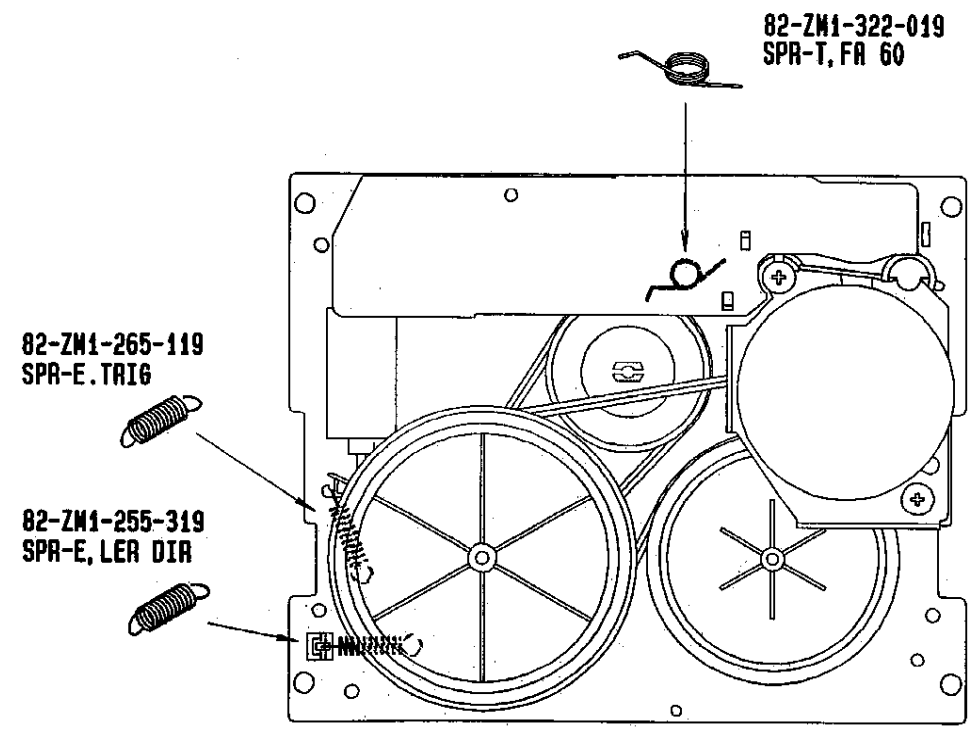
TAPE MECHANISM PARTS LIST 1/1

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-ZM1-345-019		LVR ASSY,PINCH L W
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	82-ZM1-283-310		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-ZM1-346-019		LVR ASSY,PINCH R W
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
30	82-ZM1-298-010		SPR-P,EARTH
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-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-31K		GEAR,REEL
42	87-046-398-019		HEAD,PH YK50P-BS409(PH)
42	87-046-399-019		HEAD,RPH YK56R-BS409(RPH)
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM1-228-810		SLIP DISK ASSY
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (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-ZM3-304-110		PULLEY,COUPLER (DECK 1)
56	82-ZM3-328-110		BELT,SBU P2
57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-067-972-019		PW,1.05-3-0.25 SLT

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-NF4-908-018		IB,E(E,G,F,S,I)NE<929EZ>
1	86-NF4-906-018		IB,E(EGFPSI)-E<EZ,E2>
1	86-NF4-907-019		IB,G(E)M<G>
1	86-NF4-905-018		IB,K(E)-E<K>
2	85-NF5-633-019		RC-T501
3	87-006-225-019		AM LOOP ANT NC2
4	87-043-095-019		ANTENNA WIRE<G>
4	87-043-106-019		FM,WIRE ANT (Z)

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－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.
〒110　東京都台東区池之端1－2－11　☎03（3827）3111　（代表）

9301946, 750038
Tokyo Japan
Printed in Singapore