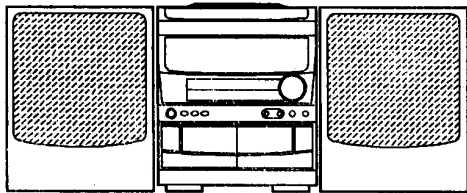


aiwa



NSX-AV80



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4
- BASIC CD MECHANISM : 4ZG-1 AD
- TYPE : EEZ, HR, HD

CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
CX-NAV80 (TYPE : HD)	SX - NAV80 SX - CR423	RC - T501
CX-NAV80 (TYPE : EEZ,HR)	SX - NAV80 SX - CR421	

- 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-NAV80, SX-CR423, SX-CR421, S/M Code No. 09-964-137-8FP.

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SPECIFICATIONS

<FM Tuner section>

Tuning range EXCEPT HD: 87.5 MHz to 108 MHz
HD: 76.0 MHz to 108 MHz
13.2 dBf

Usable sensitivity (IHF)

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 μ V/m

Antenna Loop antenna

<SW Tuner section> (HR only)

Tuning range 5.900 MHz ~ 17.900 MHz

Antenna Wire antenna

<LW Tuner section> <EEZ only>

Tuning range 144 kHz ~ 290 kHz

Usable sensitivity 1400 μ V/m

Antenna Loop antenna

<Amplifier section>

Power output

Front

EEZ :

Rated : 50 W + 50 W
(6 ohms, T.H.D. 1%, 1 kHz/DIN 45500)

Reference : 65 W + 65 W
(6 ohms, T.H.D. 10%, 1 kHz/DIN 45324)

HD,HR:

Rated : 85 W + 85 W
(6 ohms, T.H.D. 1%, 1 kHz)

Reference : 100 W + 100 W
(6 ohms, T.H.D. 10%, 1 kHz/EIAJ)

Rear (Surround)

EEZ : Rated : 10 W + 10 W

HD,HR : Rated : 9 W + 9 W
(16 ohms, T.H.D 1%, 1 kHz)

EEZ : Reference : 13 W + 13 W

HD,HR : Reference : 10 W + 10 W
(16 ohms, T.H.D 10 %, 1 kHz)

Center

EEZ : Rated : 20 W

HD,HR : Rated : 18 W
(8 ohms, T.H.D 1%, 1 kHz)

EEZ : Reference : 26 W

HD,HR : Reference : 20 W
(8 ohms, T.H.D 10%, 1 kHz)

Total harmonic distortion

EEZ:
0.1% (25 W, 1 kHz, 6 ohms, DIN AUDIO/Front)

HD,HR :
0.1% (50 W, 1 kHz, 6 ohms, DIN AUDIO/Front)

Inputs

VIDEO/AUX : 250 mV (adjustable)

MIC 1, MIC 2 : 1 mV (10 kohms)

Outputs

EEZ :

SUPER WOOFER : 1.7 V

HD,HR :

SUPER WOOFER : 2.45 V

SPEAKERS: accept speakers of 6 ohms or more

CENTER SPEAKERS :
accept speakers of 8 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
60 dB (Dolby B NR ON, CrO₂ tape peak level)

Signal-to-noise ratio

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 ($\lambda = 780$ nm)

D-A converter 1 bit dual

Signal-to-noise ratio 83 dB (1 kHz, 0 dB)

Harmonic distortion 0.05% (1 kHz, 0 dB)

Wow and flutter Unmeasurable

<Speaker system SX-NAV80>

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

Speakers

Woofer :
140 mm (5⁵/₈ in.) cone type

Tweeter :
60 mm (2³/₈ 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) 235 x 302 x 250 mm
(9³/₈ x 12 x 9⁷/₈ in.)

Weight 3.5 kg (9 lbs 15 oz.)

<General>


Power requirements HD:100 -120 V/ 200 - 240 V AC, switchable 50/60 Hz
EEZ:230 V AC, 50 Hz
HR: 120 V/ 220 - 230 V/240 V AC, switchable 50/60 Hz

Power consumption 400 W (EEZ)
170 W (HD)
150 W (HR)

Dimensions of main unit (W x H x D) 260 x 307 x 345 mm

Weight of main unit 8.0 kg

- Design and specifications are subject to change without notice.

- Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY", the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

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

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, 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

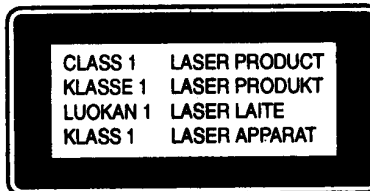
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er 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.

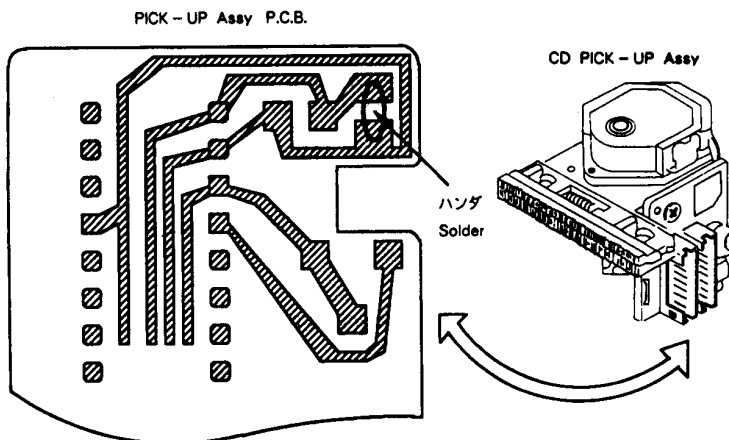


Precaution to replace Optical block

(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	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC							
	S6-804-060-030	IC, LB9051A		87-017-437-089			DIODE, 1N4148M
	86-NFS-602-010	C-IC, LC866440W-5A91		87-017-174-089			ZENER, HZS11A3L
	87-070-083-019	IC, GF1U281X		87-017-147-089			ZENER, HZS33-2<HD>
	87-A20-060-019	IC, STK-419-110<EZ>		87-017-978-089			DIODE, 1N4003
	87-A20-062-019	IC, STK419-130<HD, HR>		87-A40-184-090			DIODE, RK34
	87-070-121-010	IC, HA12185NT		87-A40-200-089			ZENER, UZL11L3<EZ, HR>
	87-070-232-019	IC, BA3834S		87-020-331-089			C-DIODE, DAN202K
	87-017-915-089	IC, BU4094BCF		87-017-123-089			ZENER, HZS11A3L<HD>
	87-001-874-019	IC, HA12134A		87-020-330-089			C-DIODE, DAP202K
	87-A20-107-019	IC, BA3836		87-017-148-089			ZENER, HZS6A1L<HD>
	87-017-804-019	IC, BU4052BC		87-001-559-089			DIODE, 1SS131
	87-A20-056-019	IC, BA3880S		87-A40-211-089			ZENER, UZ36BSA<EZ, HR>
	87-017-914-019	IC, BU4094 BC		87-A40-197-089			ZENER, UZL6L1<EZ, HR>
	87-017-888-089	IC, NJM4558MD		87-001-290-089			ZENER, HZS6B1L
	87-070-184-040	IC, M65846FP-600D		87-001-731-089			ZENER, HZ6C2L
	87-A20-069-049	C-IC, BA3842F		87-017-093-089			ZENER, HZ5C3
	87-070-127-119	IC, LC72131					
	87-017-714-119	IC, LA1836	MAIN C.B				
	87-002-642-089	IC, TA8124P<HD>	C101	87-016-474-099			CAP, E 3300-50<EZ>
	87-A20-082-010	C-IC, NJW1102AFG1	C101	87-016-520-099			CAP, E 3300-65 SMG<HD, HR>
	87-070-267-019	IC, STK405-050<EZ>	C102	87-016-474-099			CAP, E 3300-50<EZ>
	87-070-163-019	IC, STK405-030<HR, HD>	C102	87-016-520-099			CAP, E 3300-65 SMG<HD, HR>
			C104	87-010-235-089			CAP, E 470-16 SME
			C105	87-010-235-089			CAP, E 470-16 SME
TRANSISTOR			C106	87-010-409-089			CAP, E 220-50 SME
	87-026-463-089	TR, 2SA933S (RS)	C107	87-010-247-089			CAP, E 100-50 SME
	89-213-702-019	TR, 2SB1370E	C108	87-010-247-089			CAP, E 100-50 SME
	89-113-187-089	TR, 2SA1318TU	C109	87-010-263-089			CAP, E 100-10 SME 5X11
	87-026-610-089	TR, KTC3198GR	C112	87-010-382-089			CAP, E 22-25 SME
	89-332-665-089	TR, 2SC3266GR	C113	87-010-403-089			CAP, E 3.3-50 SME
	89-327-126-089	C-TR, 2SC2712BL<EXCEPT HD>	C116	87-012-140-089			C-CAP, S 470P-50 CH
	89-337-221-389	C-TR, 2SC3722K	C121	87-010-196-089			C-CAP, S 0.1-25 F
	89-327-125-088	C-TR, 2SC2712GR	C122	87-010-196-089			C-CAP, S 0.1-25 F
	87-026-286-089	TR, DTA143ES<HD>	C123	87-018-209-089			CAP, TC-U 0.1-50 F
	89-111-625-089	C-TR, 2SA1162GR	C124	87-010-196-089			C-CAP, S 0.1-25 F
	87-026-210-089	C-TR, DTC144EK T147	C145	87-010-186-089			C-CAP, 4700P-50B
	87-026-211-089	C-TR, DTA144EK T147	C146	87-010-186-089			C-CAP, 4700P-50B
	89-333-266-089	C-TR, 2SC3326B	C152	87-010-260-089			CAP, E 47-25 SME
	87-026-609-089	TR, KTA1266GR	C171	87-016-565-099			CAP, E 4700-25 (JAM1) <EZ, HR>
	89-109-705-089	TR, 2SA970GR	C171	87-A10-056-099			CAP, E 4700-35 (JAM1) <HD>
	89-026-210-088	C-TR, DTC144EK<HR>	C171	87-A10-056-099			CAP, E 4700-35 (JAM1) <HD>
	87-026-226-089	C-TR, DTA143EK	C172	87-016-565-099			CAP, E 4700-25 (JAM1)
	89-502-466-089	TR FET 2SK246-BL (TPE2)	C173	87-010-196-089			C-CAP, S 0.1-25 F
	87-026-228-089	C-TR, DTA124EK	C174	87-010-196-089			C-CAP, S 0.1-25 F
	89-112-965-089	TR, 2SA1296GR	C175	87-010-196-089			C-CAP, S 0.1-25 F
	89-333-317-089	TR, 2SC3331T	C176	87-015-785-089			C-CAP, 0.1-25 F
	89-109-521-089	TR, 2SA952K	C220	87-010-194-089			C-CAP, S 0.047-25 F
	89-406-555-089	TR, 2SD655E	C221	87-010-401-089			CAP, E 1-50 SME
	87-026-238-089	C-TR, DTC144WK	C222	87-010-401-089			CAP, E 1-50 SME
	87-026-214-089	TR, DTA114YS	C223	87-010-187-089			C-CAP, S 5600P-50 B
	89-327-143-089	C-TR, 2SC2714 (O)	C224	87-010-187-089			C-CAP, S 5600P-50 B
	87-026-269-089	TR, DTA114ES	C225	87-012-179-089			C-CAP, S 1200P-50 B
	89-421-141-289	C-TR, 2SD2114K, UV<EXCEPT HD>	C226	87-012-179-089			C-CAP, S 1200P-50 B
	89-505-434-589	C-FET, 2SK543(4/5)	C227	87-010-405-089			CAP, E 10-50 SME
	87-026-213-089	TR, DTC114YK<HD>	C228	87-010-405-089			CAP, E 10-50 SME
	87-026-232-089	C-TR, DTA144WK	C229	87-010-405-089			CAP, E 10-50 SME
	87-026-235-089	C-TR, DTC114EK	C230	87-010-405-089			CAP, E 10-50 SME
	89-316-236-089	C-TR, 2SC1623L6	C231	87-010-147-089			C-CAP, S 3P-50 CH
	89-110-155-089	TR, 2SA1015GR	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
DIODE			C235	87-010-196-089			C-CAP, S 0.1-25 F
	87-A40-116-069	DIODE, RS403L-B-D-51	C236	87-010-196-089			C-CAP, S 0.1-25 F
	87-A40-115-069	DIODE, RS603M	C239	87-018-134-089			CAP, TC-U 100P-50B<EZ>
	87-070-274-089	DIODE, 1N4003 SEM	C240	87-018-134-089			CAP, TC-U 100P-50B<EZ>
	87-020-027-089	C-DIODE, 1SS184	C243	87-010-318-089			C-CAP, S 47P-50CH<EZ>
	87-020-125-089	C-DIODE, 1SS181	C243	87-010-322-089			C-CAP, S100P-50CH<HD>
			C244	87-010-318-089			C-CAP, S 47P-50CH<EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C244	87-010-322-089		C-CAP,S100P-50CH<HD>	C534	87-010-263-089		CAP,E 100-10 SME 5X11
C249	87-018-209-089		CAP,TC-U 0.1-50 F	C535	87-010-401-089		CAP,E 1-50 SME
C250	87-A10-200-010		CAP,E 10-100 PP	C536	87-010-401-089		CAP,E 1-50 SME
C260	87-015-785-089		C-CAP,0.1-25 F	C537	87-010-545-089		CAP,E 0.22-50 SME
C261	87-018-134-089		CAP,TC-U 100P-50B<EZ>	C540	87-010-196-089		C-CAP,S 0.1-25 F
C262	87-018-134-089		CAP,TC-U 100P-50B<EZ>	C541	87-010-196-089		C-CAP,S 0.1-25 F
C301	87-010-318-089		C-CAP,S 47P-50 CH	C542	87-010-405-089		CAP,E 10-50 SME
C302	87-010-318-089		C-CAP,S 47P-50 CH	C543	87-010-546-089		CAP,E 0.33-50 SME
C303	87-012-157-089		C-CAP,S 330P-50 CH	C544	87-010-546-089		CAP,E 0.33-50 SME
C304	87-012-157-089		C-CAP,S 330P-50 CH	C545	87-010-400-089		CAP,E 0.47-50 SME
C305	87-012-145-089		C-CAP,S 270P-50 CH	C546	87-010-400-089		CAP,E 0.47-50 SME
C306	87-012-145-089		C-CAP,S 270P-50 CH	C547	87-015-632-089		C-CAP,0.015-50 BK
C307	87-010-196-089		C-CAP,S 0.1-25 F	C548	87-015-632-089		C-CAP,0.015-50 BK
C311	87-010-198-089		C-CAP,S 0.022-25 B	C553	87-015-627-089		C-CAP,1000P-50 B
C312	87-010-198-089		C-CAP,S 0.022-25 B	C554	87-015-627-089		C-CAP,1000P-50 B
C313	87-010-182-089		C-CAP,S 2200P-50 B	C557	87-010-178-089		C-CAP,S 1000P-50 B
C314	87-010-182-089		C-CAP,S 2200P-50 B	C558	87-010-178-089		C-CAP,S 1000P-50 B
C315	87-010-180-089		C-CAP,S 1500P-50 B	C597	87-010-404-089		CAP,E 4.7-50 SME<HD>
C316	87-010-180-089		C-CAP,S 1500P-50 B	C601	87-010-178-089		C-CAP,S 1000P-50 B
C317	87-012-142-089		C-CAP,S 0.33-16 F	C602	87-010-178-089		C-CAP,S 1000P-50 B
C318	87-012-142-089		C-CAP,S 0.33-16 F	C603	87-010-405-089		CAP,E 10-50 SME
C319	87-012-141-089		C-CAP,S 0.22-16 F	C604	87-010-405-089		CAP,E 10-50 SME
C320	87-012-141-089		C-CAP,S 0.22-16 F	C605	87-010-260-089		CAP,E 47-25 SME
C321	87-010-196-089		C-CAP,S 0.1-25 F	C606	87-010-101-089		CAP,E 220-16 SME
C322	87-010-196-089		C-CAP,S 0.1-25 F	C607	87-010-188-089		C-CAP,S 6800P-50 B
C324	87-010-260-089		CAP,E 47-25 SME	C608	87-010-188-089		C-CAP,S 6800P-50 B
C325	87-010-370-089		CAP,E 330-6.3 SME	C609	87-018-127-089		CAP,TC-U 470P-50 B
C326	87-010-196-089		C-CAP,S 0.1-25 F	C610	87-018-127-089		CAP,TC-U 470P-50 B
C330	87-010-401-089		CAP,E 1-50 SME	C611	87-010-197-089		C-CAP,S 0.01-25 B
C332	87-015-785-089		C-CAP,0.1-25 F	C612	87-010-197-089		C-CAP,S 0.01-25 B
C335	87-010-805-089		C-CAP,S 1-16F	C613	87-010-195-089		C-CAP,S 0.068-25 F
C336	87-010-805-089		C-CAP,S 1-16F	C614	87-010-195-089		C-CAP,S 0.068-25 F
C337	87-010-196-089		C-CAP,S 0.1-25 F	C615	87-010-404-089		CAP,E 4.7-50 SME
C338	87-010-196-089		C-CAP,S 0.1-25 F	C616	87-010-404-089		CAP,E 4.7-50 SME
C339	87-010-196-089		C-CAP,S 0.1-25 F	C617	87-010-404-089		CAP,E 4.7-50 SME
C340	87-015-785-089		C-CAP,0.1-25 F	C618	87-010-404-089		CAP,E 4.7-50 SME
C351	87-012-154-089		C-CAP,S 150P-50 CH	C641	87-010-196-089		C-CAP,S 0.1-25 F
C352	87-012-154-089		C-CAP,S 150P-50 CH	C642	87-010-196-089		C-CAP,S 0.1-25 F
C451	87-012-140-089		C-CAP,S 470P-50 CH	C701	87-010-381-089		CAP,E 330-16 SME
C452	87-012-140-089		C-CAP,S 470P-50 CH	C702	87-010-404-089		CAP,E 4.7-50 SME
C453	87-010-178-089		C-CAP,S 1000P-50 B	C703	87-010-197-089		C-CAP,S 0.01-25 B
C454	87-010-175-089		C-CAP,560P-50SL<EZ>	C704	87-010-197-089		C-CAP,S 0.01-25 B
C455	87-010-178-089		C-CAP,S 1000P-50 B<EZ>	C711	87-010-263-089		CAP,E 100-10 SME 5X11
C456	87-010-408-089		CAP,E 47-50 SME<HR,EZ>	C712	87-010-196-089		C-CAP,S 0.1-25 F
C456	87-010-260-089		CAP,E 47-25 SME<HD>	C722	87-010-152-089		C-CAP,S 8P-50 CH
C457	87-010-197-089		C-CAP,S 0.01-25 B	C723	87-010-178-089		C-CAP,S 1000P-50 B
C458	87-010-183-089		C-CAP,S 2700P-50 B	C725	87-010-178-089		C-CAP,S 1000P-50 B
C459	87-010-183-089		C-CAP,S 2700P-50 B	C727	87-010-196-089		C-CAP,S 0.1-25 F
C460	87-010-183-089		C-CAP,S 2700P-50 B	C728	87-010-248-089		CAP,E 220-10 SME
C470	87-010-196-089		C-CAP,S 0.1-25 F	C735	87-018-134-089		CAP,TC-U 0.01-16 Y
C501	87-010-179-089		C-CAP,S 1200P-50 B	C739	87-010-313-089		C-CAP,S 18P-50 CH<HD>
C502	87-010-179-089		C-CAP,S 1200P-50 B	C741	87-010-545-089		CAP,E 0.22-50 SME<HD>
C503	87-012-155-089		C-CAP,S 180P-50 CH	C742	87-010-154-089		C-CAP,S 10P-50 CH<HD>
C504	87-012-155-089		C-CAP,S 180P-50 CH	C743	87-010-404-089		CAP,E 4.7-50 SME<HD>
C515	87-010-545-089		CAP,E 0.22-50 SME	C744	87-010-263-089		CAP,E 100-10 SME<HD>
C516	87-010-545-089		CAP,E 0.22-50 SME	C745	87-010-401-089		CAP,E 1-50 SME<HD>
C519	87-015-785-089		C-CAP,0.1-25 F	C746	87-010-401-089		CAP,E 1-50 SME<HD>
C521	87-010-196-089		C-CAP,S 0.1-25 F	C747	87-010-197-089		C-CAP,S 0.01-25 B<HD>
C522	87-010-318-089		C-CAP,S 47P-50 CH	C748	87-010-198-089		C-CAP,S 0.022-25 B<HD>
C523	87-010-197-089		C-CAP,S 0.01-25 B	C749	87-010-248-089		CAP,E 220-10 SME<HD>
C524	87-010-402-089		CAP,E 2.2-50 SME	C753	87-010-402-089		CAP,E 2.2-50 SME<HD>
C525	87-010-184-089		C-CAP,S 3300P-50 B	C770	87-010-405-089		CAP,E 10-50 SME
C526	87-010-196-089		C-CAP,S 0.1-25 F	C771	87-010-405-089		CAP,E 10-50 SME
C527	87-010-401-089		CAP,E 1-50 SME	C772	87-010-194-089		C-CAP,S 0.047-25 F
C528	87-010-401-089		CAP,E 1-50 SME	C773	87-015-785-089		C-CAP,0.1-25 F
C529	87-010-384-089		CAP,E 100-25 SME	C774	87-010-263-089		CAP,E 100-10 SME 5X11
C530	87-010-197-089		C-CAP,S 0.01-25 B	C775	87-010-405-089		CAP,E 10-50 SME
C531	87-010-183-089		C-CAP,S 2700P-50 B	C776	87-010-197-089		C-CAP,S 0.01-25 B
C532	87-010-194-089		C-CAP,S 0.047-25 F	C777	87-010-400-089		CAP,E 0.47-50 SME
C533	87-010-196-089		C-CAP,S 0.1-25 F	C778	87-010-401-089		CAP,E 1-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C779	87-010-401-089		CAP,E 1-50 SME	L701	87-A50-027-019		COIL, 1 POLE MPX(TOK)
C780	87-010-197-089		C-CAP,S 0.01-25 B	L702	87-A50-027-019		COIL, 1 POLE MPX(TOK)
C781	87-010-405-089		CAP,E 10-50 SME	L770	87-003-102-089		COIL, 10UH<HD>
C782	87-010-405-089		CAP,E 10-50 SME	L721	87-A50-015-019		COIL, FM DET(TOK)
C783	87-010-182-089		C-CAP,S 2200P-50 B<HD>	L742	87-A90-051-019		FLTR, CFAZ-450(TOK)<EZ>
C784	87-010-182-089		C-CAP,S 2200P-50 B<HD>	L742	87-A90-052-019		FLTR, CFMT-450A(TOK)<HR>
C785	87-010-197-089		C-CAP,S 0.01-25 B	L742	87-A90-053-019		FLTR, PCFMT-60<HD>
C787	87-010-184-089		C-CAP,S 3300P-50 B	L770	87-003-102-089		COIL, 10UH
C788	87-010-184-089		C-CAP,S 3300P-50 B	L832	87-005-847-089		COIL, 2.2UH(CECS)
C789	87-015-826-089		C-CAP, 1200-50 B K	L941	87-A50-020-019		COIL, ANT LW<EZ>
C790	87-010-179-089		C-CAP,S 1200P-50 B	L941	87-A50-022-019		COIL, ANT SW(COJ)<HR>
C791	87-010-401-089		CAP,E 1-50 SME	L942	87-A50-019-019		COIL, OSC LW<EZ>
C792	87-010-182-089		C-CAP,S 2200P-50 B	L942	87-A50-021-019		COIL, OSC SW(COJ)<HR>
C793	87-010-189-089		C-CAP,S 8200P-50 B	L943	87-005-372-089		COIL, S 1MH TAP<HR>
C794	87-010-408-089		CAP,E 47-50 SME	L944	87-003-131-089		COIL, 10MH J<HR>
C795	87-010-194-089		C-CAP,S 0.047-25 F	L981	86-NF4-665-019		AM PACK 1(TOK)<EZ, HD>
C796	87-010-403-089		CAP,E 3.3-50 SME	L981	86-NF4-666-019		AM PACK 3(TOK)<HR>
C802	87-010-197-089		C-CAP,S 0.01-25 B	△PR110	87-026-681-089		PROTECTOR, 5A 60V 491
C803	87-018-134-089		CAP, TC-U 0.01-16 Y	△PR111	87-026-681-089		PROTECTOR, 5A 60V 491
C814	87-010-196-089		C-CAP,S 0.1-25 F	△PR112	87-026-689-089		PROTECTOR, 1A 60V 491
C815	87-018-134-089		CAP, TC-U 0.01-16 Y<HD>	R105	87-022-600-089		RES, M/F 0.1-2W J
C817	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT HD>	R106	87-022-600-089		RES, M/F 0.1-2W J
C818	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT HD>	RY101	87-045-361-019		RELAY, DHL2D2-OS(M)-2<HR>
C819	87-010-197-089		C-CAP,S 0.01-25 B	RY101	87-A90-143-019		RELAY, DGL2D2-OS(M)<EZ, HD>
C820	87-010-408-089		CAP,E 47-50 SME	RY102	87-045-382-019		RELAY, OUAZ-SH-112L
C821	87-010-197-089		C-CAP,S 0.01-25 B	SFR301	87-024-174-089		SFR33K DIA6 V
C823	87-010-197-089		C-CAP,S 0.01-25 B	SFR302	87-024-174-089		SFR33K DIA6 V
C828	87-010-197-089		C-CAP,S 0.01-25 B	SFR303	87-024-174-089		SFR33K DIA6 V
C829	87-010-197-089		C-CAP,S 0.01-25 B	SFR304	87-024-174-089		SFR33K DIA6 V
C830	87-015-819-089		CHIP CAP 0.01	SFR305	87-024-175-089		SFR, 47K DIA6 V
C835	87-010-197-089		C-CAP,S 0.01-25 B	SFR306	87-024-175-089		SFR, 47K DIA6 V
C901	87-010-197-089		C-CAP,S 0.01-25 B	SFR451	87-024-175-089		SFR, 47K DIA6 V
C902	87-010-196-089		C-CAP,S 0.1-25 F	SFR452	87-024-175-089		SFR, 47K DIA6 V
C903	87-010-119-089		CAP, TC-U 100P-50 B	SFR722	87-024-171-089		SFR 4.7K DIA6 V
C941	87-010-314-089		C-CAP,S 22P-50 CH<HR>	TC701	87-011-253-089		TRIMER, 30P LAR
C943	87-010-197-089		C-CAP,S 0.01-25 B<HR>	TC941	87-011-254-089		TRIMER, 20P LAR<HR>
C944	87-014-051-089		CAP, PP 560P-100 J<HR>	TC942	87-011-253-089		TRIMER, 30P LAR<EXCEPT HD>
C945	87-010-197-089		C-CAP,S 0.01-25 B<HR>	TH241	87-A90-157-089		C-THMS, 4, 7K<EXCEPT HD>
C946	87-010-401-089		CAP,E 1-50 SME	VR651	82-NF5-660-019		VR 50K BX2 RK14K 12A
C950	87-014-073-089		CAP, PP 4700P-100 J<HR>	W101	85-NF5-628-019		F-CABLE 7P-2.5
C952	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT HD>	W301	86-NF5-618-019		CONN ASSY, 8P RPB
C953	87-010-197-089		C-CAP,S 0.01-25 B<HR>	W604	85-NF5-617-019		CABLE, FFC 6P-1.25
C954	87-010-400-089		CAP,E 0.47-50<EXCEPT HD>	X702	87-030-283-019		VIB, CER CSA 3.60MGFN<HD>
C956	87-010-263-089		CAP,E 100-10 SME 5X11<HR>	X703	84-508-618-019		VIB, CER CSB 456 F/5
C957	87-010-315-089		C-CAP,S 27P-50 CH<EZ>	X721	87-030-372-019		VIB, XTAL 7.2MHZ
C958	87-010-197-089		C-CAP,S 0.01-25 B<EZ>	X722	87-030-354-019		VIB, CF BFU 450C<HR>
C960	87-010-196-089		C-CAP,S 0.1-25 F	FRONT C.B			
C961	87-010-152-089		C-CAP,S 8P-50 CH<HD>	C201	87-015-698-049		CAP,E 4.7-50 7L
C961	87-010-150-089		C-CAP,S 6P-50 CH<EZ>	C202	87-015-698-049		CAP,E 4.7-50 7L
C987	87-018-134-089		CAP, TC-U 0.01-16 Y	C203	87-010-392-049		CAP,E 33-35 SME
C990	87-010-197-089		C-CAP,S 0.01-25 B	C204	87-010-401-049		CAP,E 1-50 SME
C993	87-018-134-089		CAP, TC-U 0.01-16 Y	C205	87-010-263-049		CAP,E 100-10
C995	87-010-197-089		C-CAP,S 0.01-25 B	C206	87-A10-116-049		CAP,E 330-6.3 GAS
C999	87-010-196-089		C-CAP,S 0.1-25 F<EXCEPT HD>	C207	87-010-494-049		CAP,E 1-50 GAS
CF801	87-008-261-019		FLTR, SFE10.7MA5-A<HD, HR>	C208	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-423-019		CF, SFE10.7MS3G-A<EZ>	C209	87-010-316-089		C-CAP,S 33P-50 CH
CF801	87-008-261-019		FLTR, SFE10.7MA5-A<HD, HR>	C210	87-010-154-089		C-CAP,S 10P-50 CH
CF802	82-785-747-019		CF, MS2GHY, R<EZ>	C211	87-015-689-049		CAP,E 10-35 7L
FR121	87-029-060-089		RES, FUSE 33-1/4W J	C212	87-010-498-049		CAP,E 10-16 GAS
FR122	87-029-060-089		RES, FUSE 33-1/4W J	C213	87-010-196-089		C-CAP,S 0.1-25 F
J252	87-A60-031-019		JACK 6.3BLK ST W/S	C214	87-010-196-089		C-CAP,S 0.1-25 F
J253	87-A60-244-019		JACK, PIN 1P BLK	C215	87-010-196-089		C-CAP,S 0.1-25 F
J254	87-033-240-019		TERMINAL, SP 4P32SV1-05	C220	87-010-178-089		C-CAP,S 1000P-50 B
J652	87-099-741-019		JACK, PIN 2P (JT)	C223	87-010-178-089		C-CAP,S 1000P-50 B
J801	87-033-241-019		TERMINAL, ANT AJ-2039	C250	87-010-178-089		C-CAP,S 1000P-50 B
L101	87-003-383-019		COIL, 1UH-S	C251	87-010-196-089		C-CAP,S 0.1-25 F
L102	87-003-383-019		COIL, 1UH-S	C381	87-010-196-089		C-CAP,S 0.1-25 F
L403	87-007-341-019		COIL, TRAP 85K				
L404	87-007-341-019		COIL, TRAP 85K				
L451	87-007-342-019		COIL, OSC 85K BIAS				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C382	87-010-196-089		C-CAP,S 0.1-25 F	LED453	87-070-201-089		LED,SLP9118C-51-S-T1
C383	87-010-196-089		C-CAP,S 0.1-25 F	LED454	87-070-201-089		LED,SLP9118C-51-S-T1
C384	87-010-196-089		C-CAP,S 0.1-25 F	LED455	87-070-201-089		LED,SLP9118C-51-S-T1
C385	87-010-178-089		C-CAP,S 1000P-50 B	LED456	87-070-201-089		LED,SLP9118C-51-S-T1
C389	87-010-196-089		C-CAP,S 0.1-25 F	LED801	87-070-201-089		LED,SLP9118C-51-S-T1
C401	87-010-196-089		C-CAP,S 0.1-25 F	LED802	87-070-201-089		LED,SLP9118C-51-S-T1
C402	87-010-196-089		C-CAP,S 0.1-25 F	LED803	87-070-201-089		LED,SLP9118C-51-S-T1
C501	87-010-553-049		CAP,E 47-16 GAS	LED804	87-070-199-089		LED,SLP738F-81-S-T1
C602	87-010-322-089		C-CAP,S 100P-50 CH	LED805	87-070-199-089		LED,SLP738F-81-S-T1
C603	87-010-177-089		C-CAP,S 820P-50 SL	S301	87-036-215-089		SW,TACT EVQ21404M
C604	87-010-186-089		C-CAP,S 4700P-50 B	S302	87-036-215-089		SW,TACT EVQ21404M
C605	87-010-491-049		CAP,E 0.22-50 GAS	S303	87-036-215-089		SW,TACT EVQ21404M
C606	87-010-196-089		C-CAP,S 0.1-25 F	S304	87-036-215-089		SW,TACT EVQ21404M
C607	87-010-321-089		C-CAP,S 82P-50 CH	S305	87-036-215-089		SW,TACT EVQ21404M
C608	87-010-112-049		CAP,E 100-16	S321	87-036-215-089		SW,TACT EVQ21404M
C609	87-010-196-089		C-CAP,S 0.1-25 F	S322	87-036-215-089		SW,TACT EVQ21404M
C611	87-010-248-049		CAP,E 220-10 SME	S323	87-036-215-089		SW,TACT EVQ21404M
C612	87-010-322-089		C-CAP,S 100P-50 CH	S324	87-036-215-089		SW,TACT EVQ21404M
C613	87-010-196-089		C-CAP,S 0.1-25 F	S325	87-036-215-089		SW,TACT EVQ21404M
C630	87-010-498-049		CAP,E 10-16 GAS	S326	87-036-215-089		SW,TACT EVQ21404M
C640	87-010-406-049		CAP,E 22-50 SME	S327	87-036-215-089		SW,TACT EVQ21404M
C646	87-010-196-089		C-CAP,S 0.1-25 F	S328	87-036-215-089		SW,TACT EVQ21404M
C701	87-010-401-049		CAP,E 1-50 SME	S329	87-036-215-089		SW,TACT EVQ21404M
C702	87-010-401-049		CAP,E 1-50 SME	S341	87-036-215-089		SW,TACT EVQ21404M
C703	87-010-993-089		C-CAP,S 0.056-25 B	S342	87-036-215-089		SW,TACT EVQ21404M
C704	87-010-182-089		C-CAP,S 2200P-50 B	S343	87-036-215-089		SW,TACT EVQ21404M
C705	87-012-393-089		C-CAP,S 0.22-16,R,K	S344	87-036-215-089		SW,TACT EVQ21404M
C706	87-012-393-089		C-CAP,S 0.22-16,R,K	S345	87-036-215-089		SW,TACT EVQ21404M
C707	87-010-182-089		C-CAP,S 2200P-50 B	S346	87-036-215-089		SW,TACT EVQ21404M
C708	87-010-993-089		C-CAP,S 0.056-25 B	S347	87-036-215-089		SW,TACT EVQ21404M
C709	87-012-393-089		C-CAP,S 0.22-16,R,K	S348	87-036-215-089		SW,TACT EVQ21404M
C710	87-012-393-089		C-CAP,S 0.22-16,R,K	VR601	86-NFS-604-019		VR,10KB RK11K1130 CT
C711	87-010-401-049		CAP,E 1-50	VR602	82-NK7-615-019		VR,10KA RK11K1130
C712	87-010-260-049		CAP,E 47-25 SME	W104	88-913-181-119		FF-CABLE,13P 1.25
C713	87-010-401-049		CAP,E 1-50 SME	W301	83-NF8-613-019		F-CABLE 2P-2.0 KEY
C714	87-010-263-049		CAP,E 100-10	W501	88-915-181-119		FF-CABLE,15P 1.25
C715	87-016-081-089		C-CAP,S 0.1-16 R K	W801	88-916-201-119		FF-CABLE,16P 1.25
FB601	87-008-372-089		FLTR,EMI BL 01RN1				
FB640	87-008-372-089		FLTR,EMI BL 01RN1				
FB641	87-008-372-089		FLTR,EMI BL 01RN1	MVR C.B			
FL101	86-NF5-603-019		FL BJ454GK	C631	87-010-805-089		C-CAP,S 1-16 F
J601	82-NF7-630-019		JACK,3.5 MO	C632	87-010-805-089		C-CAP,S 1-16 F
J621	82-NF7-630-019		JACK,3.5 MO	C651	87-010-319-089		C-CAP,S 56P-50 CH
L201	87-A50-052-019		COIL,CLOCK 5.76MHZ T1	C652	87-010-319-089		C-CAP,S 56P-50 CH
LED401	87-070-281-089		LED,SLZ736A-25-S-T	C653	87-010-426-089		C-CAP,S 0.012-25 B
LED402	87-070-281-089		LED,SLZ736A-25-S-T	C654	87-010-178-089		C-CAP,S 1000P-50 B
LED403	87-070-281-089		LED,SLZ736A-25-S-T	C656	87-012-358-089		C-CAP,S 0.47-10FZ
LED404	87-070-281-089		LED,SLZ736A-25-S-T	C657	87-010-263-089		CAP,E 100-10
LED405	87-070-281-089		LED,SLZ736A-25-S-T	C659	87-010-263-089		CAP,E 100-10
LED406	87-070-281-089		LED,SLZ736A-25-S-T	C661	87-010-177-089		C-CAP,S 820P-50 SL
LED407	87-070-199-089		LED,SLP738F-81-S-T1	C664	87-012-141-089		C-CAP,S 0.22-16 F
LED408	87-070-199-089		LED,SLP738F-81-S-T1	C665	87-010-181-089		C-CAP,S 1800P-50 B
LED409	87-070-199-089		LED,SLP738F-81-S-T1	C666	87-010-426-089		C-CAP,S 0.012-25 B
LED410	87-070-199-089		LED,SLP738F-81-S-T1	C668	87-012-358-089		C-CAP,S 0.47-10FZ
LED411	87-070-199-089		LED,SLP738F-81-S-T1	C669	87-010-404-089		CAP,E 4.7-50 SME
LED412	87-070-199-089		LED,SLP738F-81-S-T1	C671	87-012-158-089		C-CAP,S 390P-50 CH
LED413	87-070-199-089		LED,SLP738F-81-S-T1	C672	87-010-196-089		C-CAP,S 0.1-25 F
LED414	87-070-199-089		LED,SLP738F-81-S-T1	C675	87-010-180-089		C-CAP,S 1500P-50 B
LED420	87-070-201-089		LED,SLP9118C-51-S-T1	C716	87-010-196-089		C-CAP,S 0.1-25 F
LED421	87-070-201-089		LED,SLP9118C-51-S-T1	C801	87-010-405-089		CAP,E 10-50 SME
LED422	87-070-201-089		LED,SLP9118C-51-S-T1	C802	87-010-405-089		CAP,E 10-50 SME
LED423	87-070-201-089		LED,SLP9118C-51-S-T1	C831	87-010-176-089		C-CAP,S 680P-50 SL
LED424	87-070-278-019		LED,SLZ-738A-24-S	C832	87-010-176-089		C-CAP,S 680P-50 SL
LED425	87-070-278-019		LED,SLZ-738A-24-S	C837	87-016-456-089		CAP,E 22-16 LLA
LED426	87-070-278-019		LED,SLZ-738A-24-S	C838	87-010-112-089		CAP,E 100-16 11L
LED427	87-070-278-019		LED,SLZ-738A-24-S	C839	87-018-209-089		CAP,TC-U 0.1-50 F
LED428	87-070-290-019		LED,SLZ 936-30-S	C840	87-010-260-089		CAP,E 47-25 SME
LED429	87-070-290-019		LED,SLZ 936-30-S	C842	87-016-472-089		CAP,E 22-16,SME (K)
LED451	87-070-201-089		LED,SLP9118C-51-S-T1	C843	87-010-263-089		CAP,E 100-10 SME 5X11
LED452	87-070-201-089		LED,SLP9118C-51-S-T1	C844	87-018-209-089		CAP,TC-U 0.1-50 F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C845	87-010-378-089		CAP,E 10-16 11L				
C846	87-010-378-089		CAP,E 10-16 11L				
C847	87-010-378-089		CAP,E 10-16 11L				
C848	87-010-378-089		CAP,E 10-16 11L				
C849	87-010-378-089		CAP,E 10-16 11L				
C850	87-010-101-089		CAP,E 220-16 SME				
C851	87-012-140-089		C-CAP,S 470P-50 CH				
C852	87-010-186-089		C-CAP,S 4700P-50 B				
C853	87-010-187-089		C-CAP,S 5600P-50 B				
C855	87-010-194-089		C-CAP,S 0.047-25 F				
C856	87-012-394-089		C-CAP,0.68-16,R,K				
C857	87-012-393-089		C-CAP,S 0.22-16,R,K				
C858	87-012-393-089		C-CAP,S 0.22-16,R,K				
C859	87-010-404-089		CAP,E 4.7-50				
C860	87-010-404-089		CAP,E 4.7-50				
C861	87-012-393-089		C-CAP,S 0.22-16,R,K				
C862	87-012-393-089		C-CAP,S 0.22-16,R,K				
C863	87-018-209-089		CAP,TC-U 0.1-50 F				
C866	87-016-081-089		C-CAP,S 0.1-16 RK				
C867	87-016-081-089		C-CAP,S 0.1-16 RK				
C870	87-016-081-089		C-CAP,S 0.1-16 RK				
C880	87-010-198-089		C-CAP,S 0.022-25 B				
C881	87-010-402-089		CAP,E 2.2-50 SME				
C882	87-010-402-089		CAP,E 2.2-50 SME				
C883	87-010-402-089		CAP,E 2.2-50 SME				
C884	87-010-402-089		CAP,E 2.2-50 SME				
C885	87-016-081-089		C-CAP,S 0.1-16 RK				
L650	87-005-481-089		COIL,42UH J FLR50				
MVR751	86-NFS-603-019		VR,RTRY 50KBX4(AL)				
R757	87-025-407-089		RES,M/F 100K-1/8W				
W802	88-906-301-119		FF-CABLE,6P 1.25				
KEY C.B							
S349	87-036-215-089		SW,TACT EVQ21404M				
S350	87-036-215-089		SW,TACT EVQ21404M				
S351	87-036-215-089		SW,TACT EVQ21404M				
S352	87-036-215-089		SW,TACT EVQ21404M				
S353	87-036-215-089		SW,TACT EVQ21404M				
AMP C.B							
C301	87-010-196-089		C-CAP,S 0.1-25 F				
C302	87-010-196-089		C-CAP,S 0.1-25 F				
C303	87-016-566-099		CAP,E 2200-35(JAM1)				
C304	87-016-566-099		CAP,E 2200-35(JAM1)				
C305	87-010-408-089		CAP,E 47-50 SME				
C306	87-010-194-089		C-CAP,S 0.047-25 F				
C307	87-010-177-089		C-CAP,S 820P-50 SL				
C308	87-010-177-089		C-CAP,S 820P-50 SL				
C309	87-010-402-089		CAP,E 2.2-50 SME				
C310	87-010-402-089		CAP,E 2.2-50 SME				
C311	87-010-378-089		CAP,E 10-16 11L				
C312	87-010-378-089		CAP,E 10-16 11L				
C315	87-010-147-089		C-CAP,S 3P-50 CH				
C316	87-010-147-089		C-CAP,S 3P-50 CH				
C317	87-012-361-089		C-CAP,S 0.056-25 Y				
C318	87-012-361-089		C-CAP,S 0.056-25 Y				
C319	87-016-081-089		C-CAP,S 0.1-16 R K				
C320	87-016-081-089		C-CAP,S 0.1-16 R K				
C321	87-010-193-089		C-CAP,S 0.033-25 F				
C322	87-010-193-089		C-CAP,S 0.033-25 F				
C323	87-010-197-089		C-CAP,S 0.01-25 B				
C921	87-010-197-089		C-CAP,S 0.01-25 B				
C922	87-010-197-089		C-CAP,S 0.01-25 B				
J701	87-099-803-019		JACK,PIN 3P OWR				
L701	87-003-383-019		COIL,1UH-S				
L702	87-003-383-019		COIL,1UH-S				
R607	87-022-050-089		RESIS METAL 1W-0.22J				
R608	87-022-050-089		RESIS METAL 1W-0.22J				
				AC C.B			
				C103	87-010-187-089		C-CAP,S 0.01-25 B
				△PR101	87-026-682-089		PROTECTOR,10A 60V 491
				△PR102	87-026-682-089		PROTECTOR,10A 60V 491
				△PR103	87-026-681-089		PROTECTOR,5A 60V 491
				△PR104	87-026-681-089		PROTECTOR,5A 60V 491
				PT C.B			
				△	82-304-743-019		TERMINAL,1P
				△CF109	87-033-213-088		CLAMP FUSE SMK<EZ>
				△CF109	87-033-147-019		CLAMP,FUSE<HD,HR>
				△CF110	87-033-213-089		CLAMP FUSE SMK<EZ>
				△CF110	87-033-147-019		CLAMP,FUSE<HD,HR>
				△F109	87-035-369-019		FUSE,5A 250V T E<HD,HR>
				△F109	87-035-365-019		FUSE,T 2A 250V T E<EZ>
				△PT001	86-NFS-601-019		PT,HD 6NF-S<HD>
				△PT001	86-NFS-608-019		PT,E 6NF-S<EZ>
				△PT001	86-NFS-616-019		PT,HR 6NF-S<HR>
				△SW101	87-036-387-019		SW,SL 1-2-3<HR>
				△SW101	87-036-388-019		SW,SL 1-2-2<HD>
				DECK C.B			
				SFR1	87-024-581-089		SFR,3.3K DIA 6H
				SOL1	82-ZM1-618-310		SOL ASSY,27
				SOL2	82-ZM1-626-310		SOL ASSY,27K
				SW1	87-036-378-019		SW,PUSH 1-1-1 SH2
				SW2	87-036-378-019		SW,PUSH 1-1-1 SH2
				SW3	87-036-378-019		SW,PUSH 1-1-1 SH2
				SW4	87-036-378-019		SW,PUSH 1-1-1 SH2
				SW5	87-036-378-019		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
				HEAD-1 C.B			
				HEAD-2 C.B			

TRANSISTOR ILLUSTRATION



E C B

2SA1296GR
2SC3266GR
KTA1266GR
KTC3198GR



E C B

2SA952K
2SD655E
2SA970GR
2SA1015GR



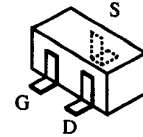
E C B

DTA114YS
DTA114ES
2SA933S
DTA143ES



E C B

2SA1318
2SC3331T



2SK543



B C E

2SB1370



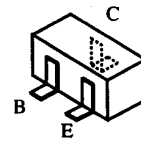
S G D

2SK246



E C B

2SD2005

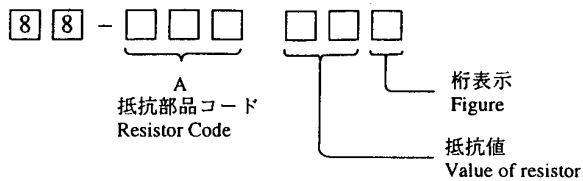


C
B
E

2SA1162GR
2SC2712GR/BL
2SC2714
2SC3722K
2SC3326B
DTC144EK
DTA144EK
DTA143EK
DTA124EK
DTC144WK
2SD2114 K,U,V
DTC114YK
DTA144WK
DTC114EK
2SC1623(L6)

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

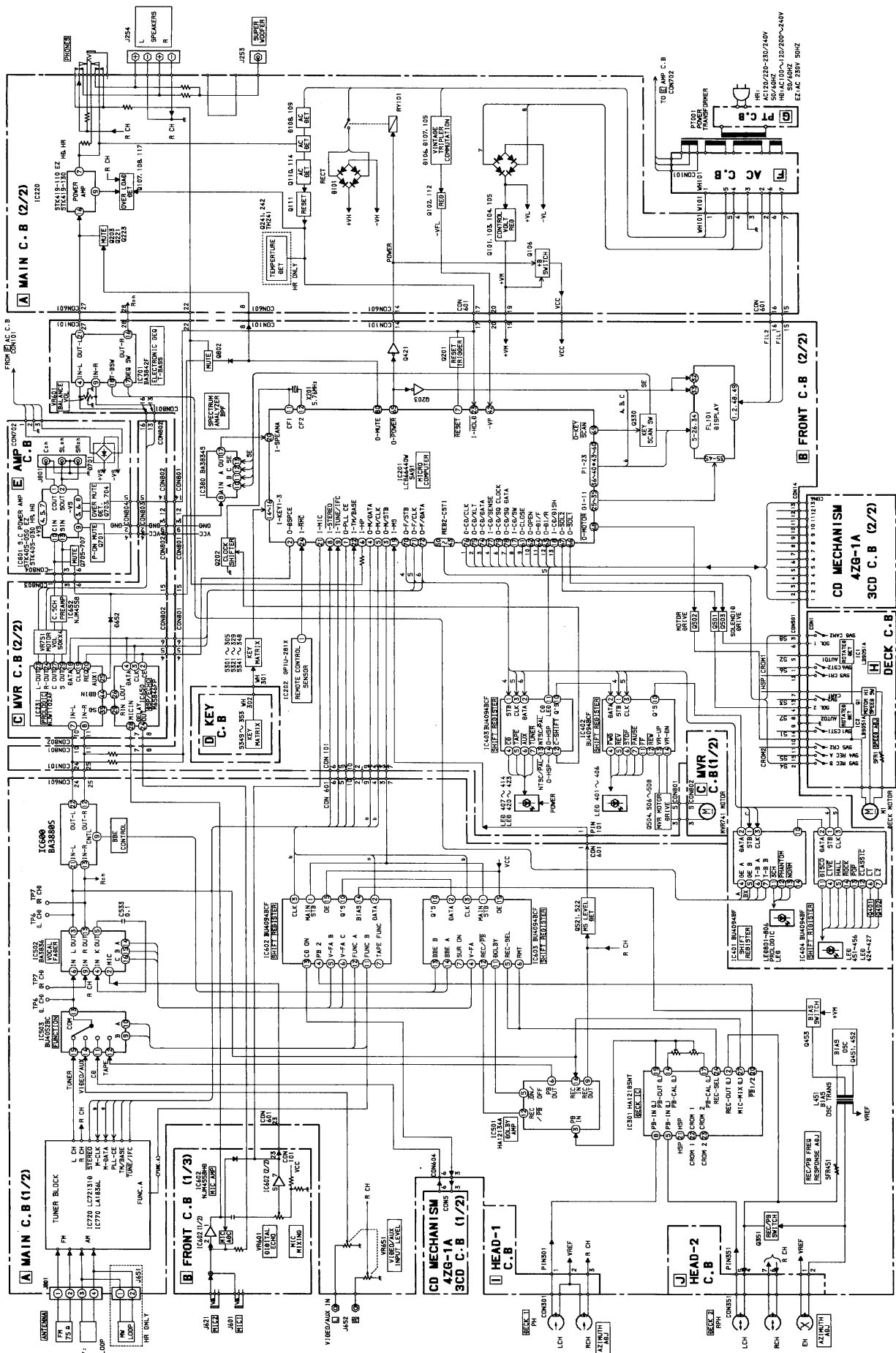
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



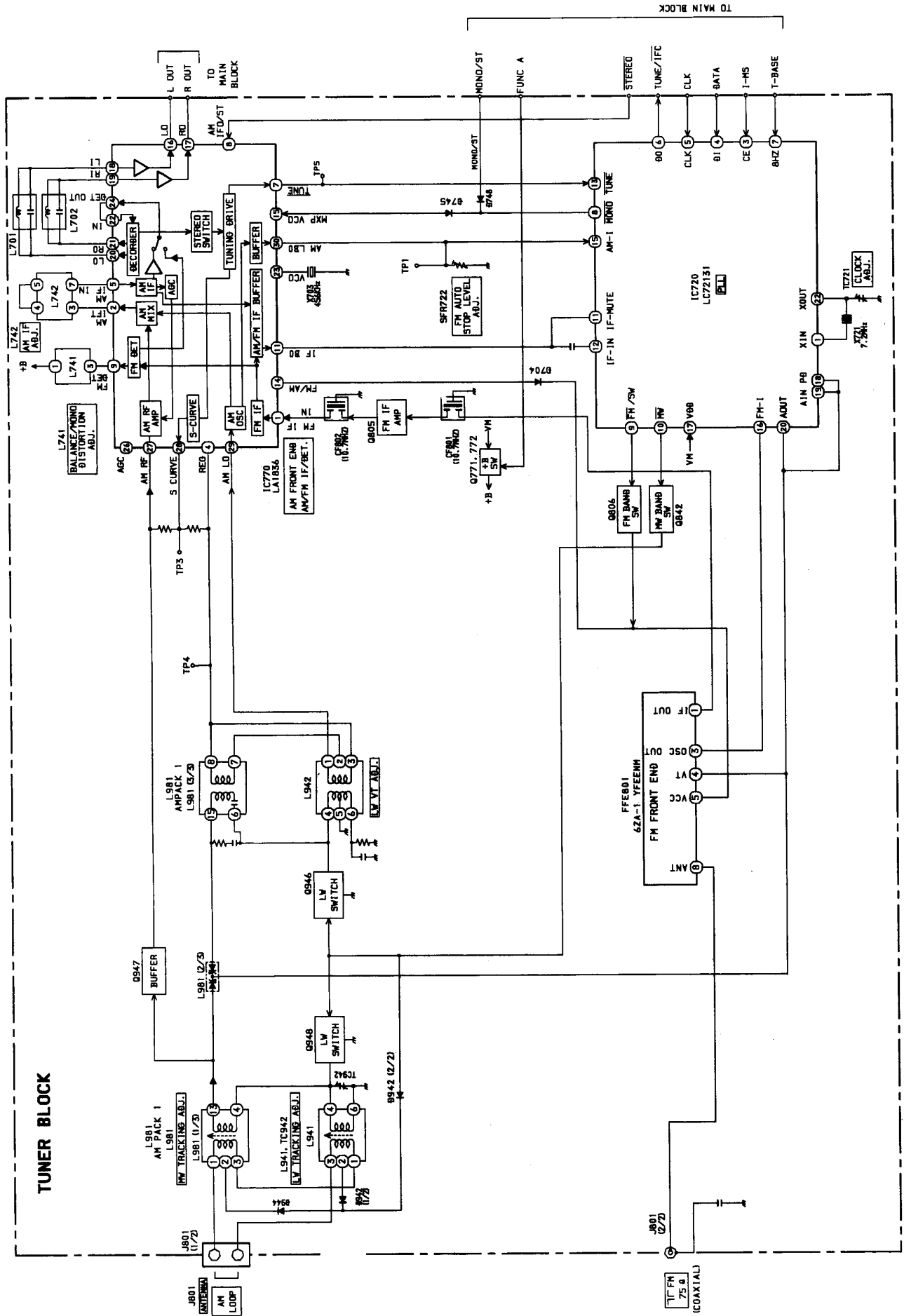
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)			抵抗コード : A Resistor Code: A	
				外形 / Form	L	W		t
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

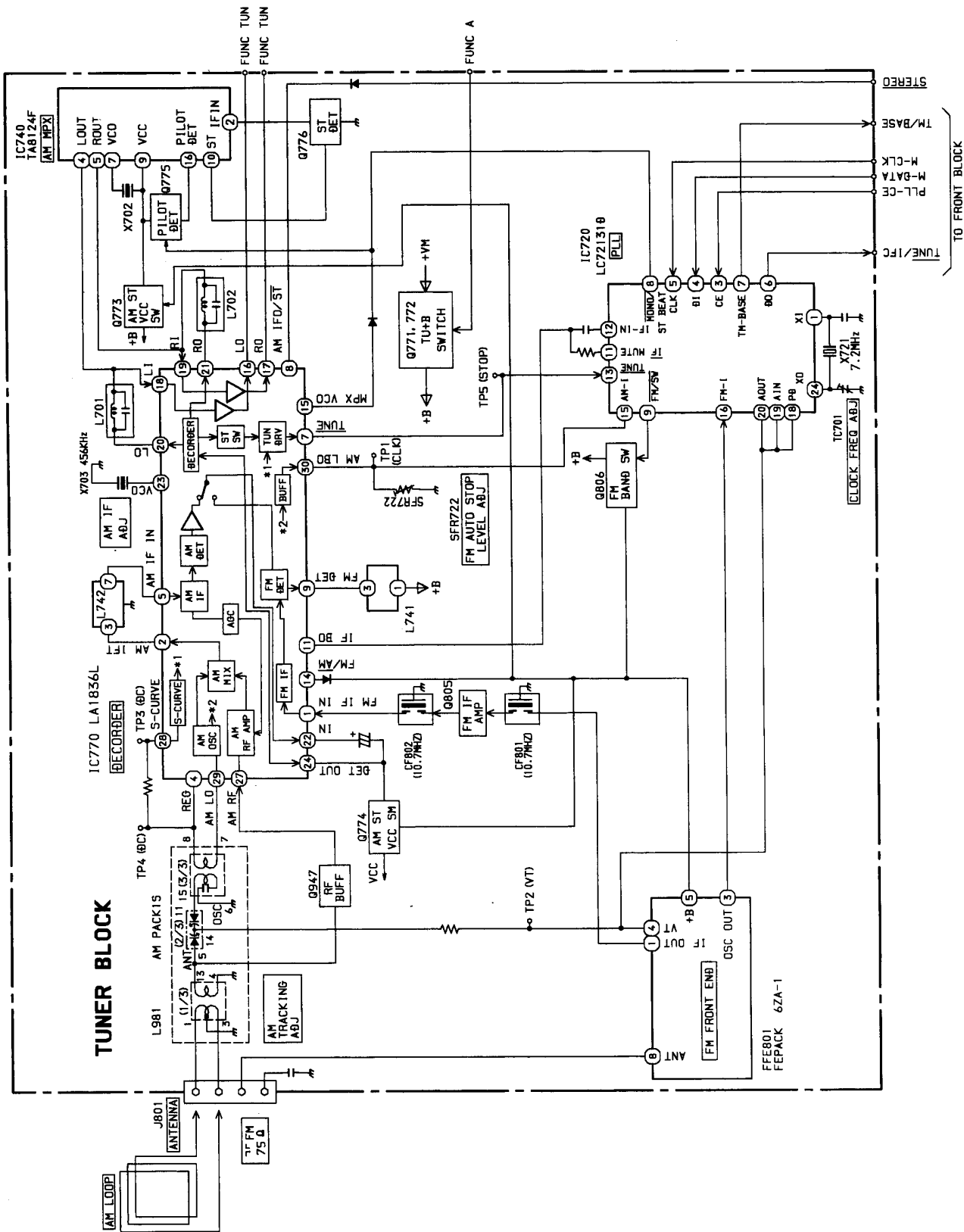
BLOCK DIAGRAM - 1 (MAIN / FRONT)

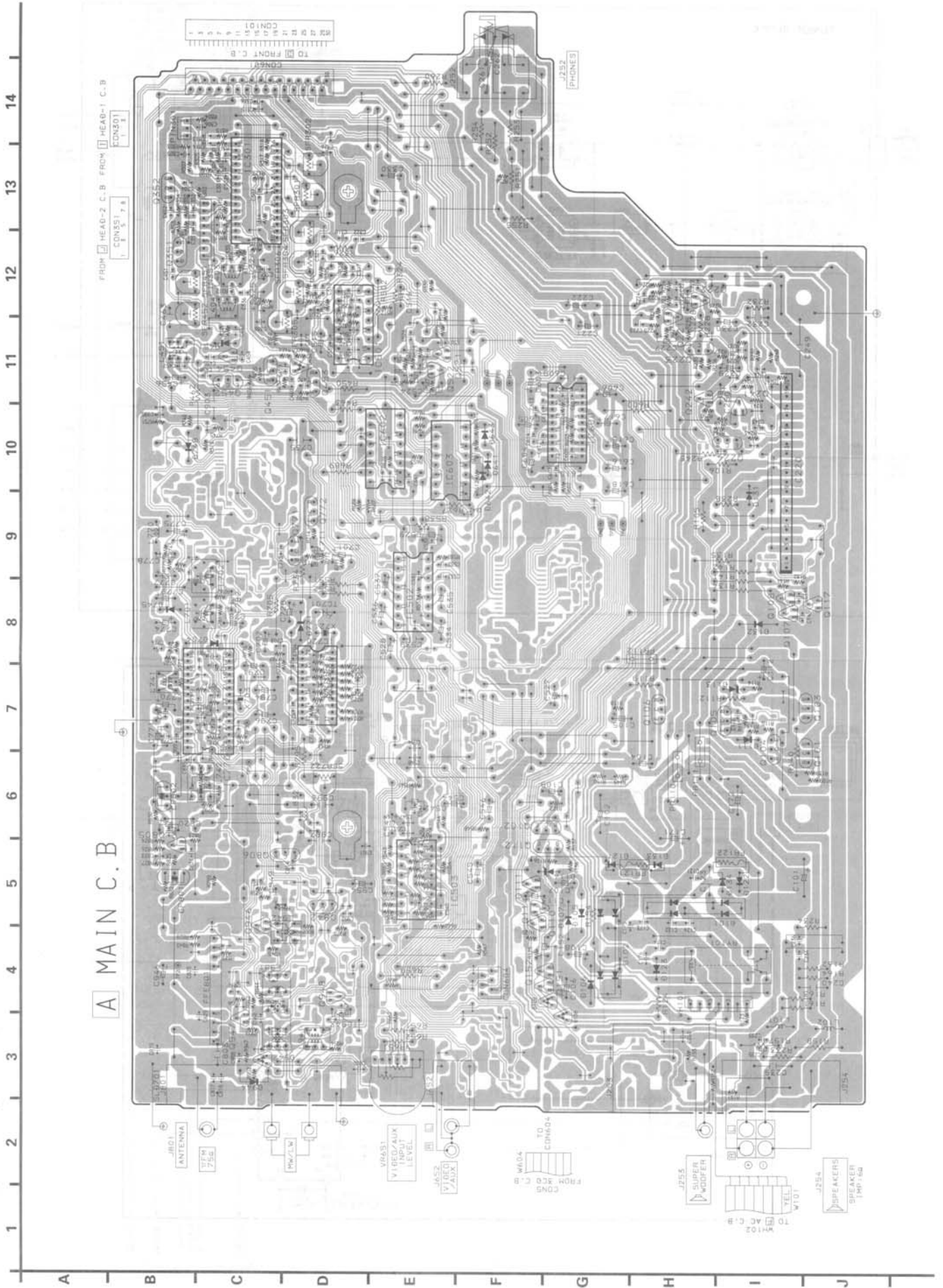


BLOCK DIAGRAM - 2 (TUNER : EEZ)

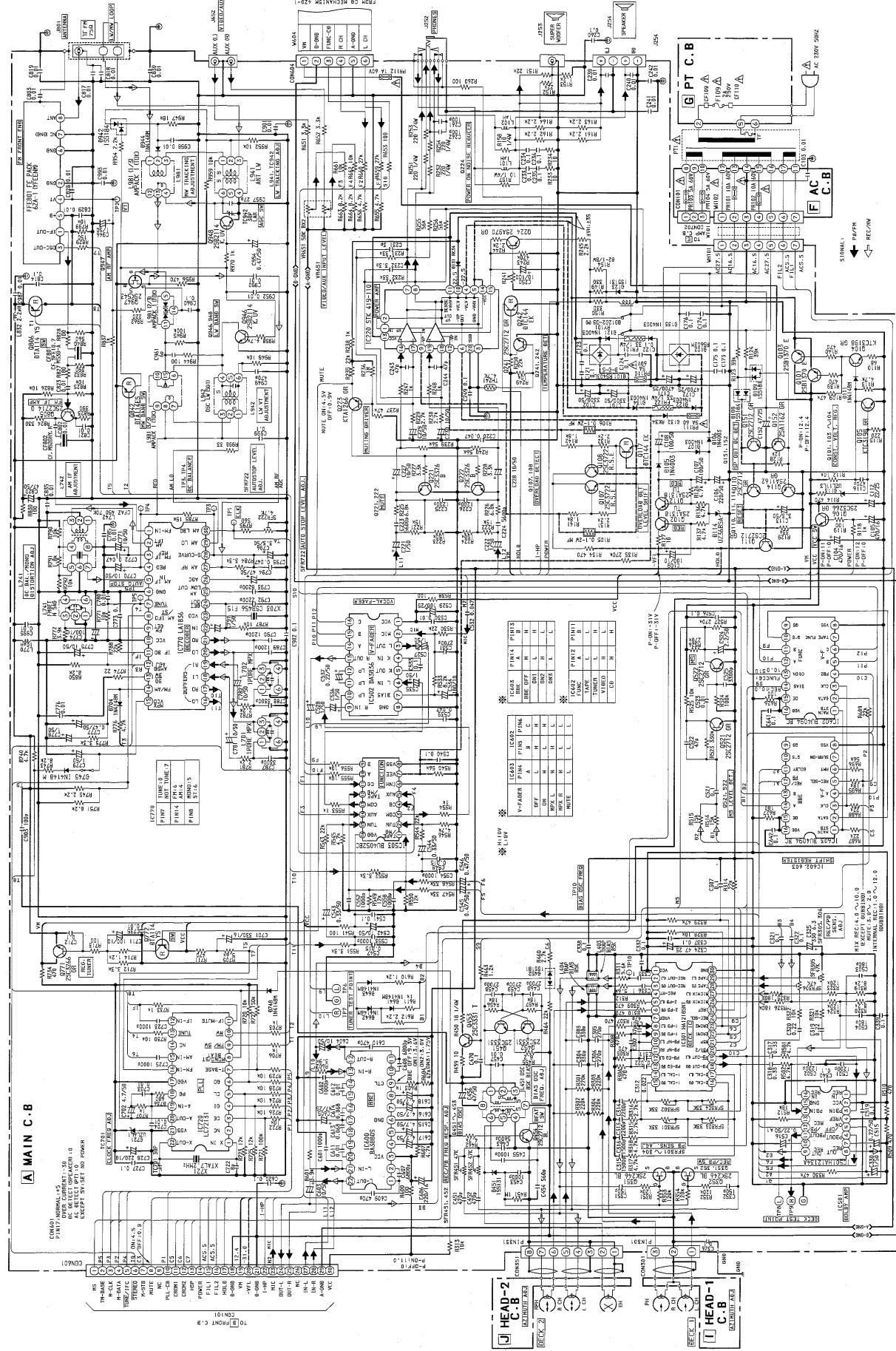


BLOCK DIAGRAM - 3 (TUNER : HD)



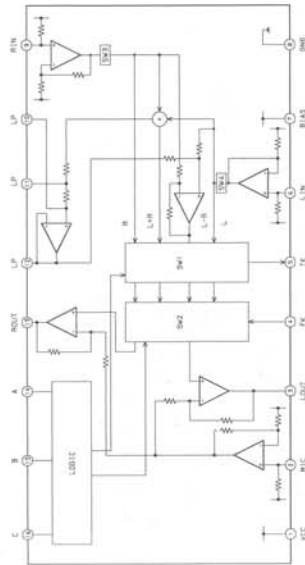


A MAIN C.B.

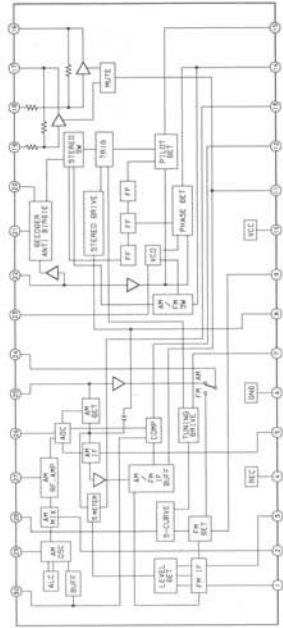


IC BLOCK DIAGRAM - 1

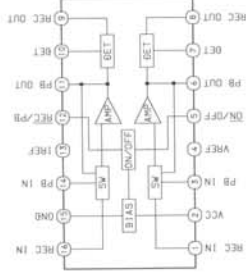
IC, BA3836



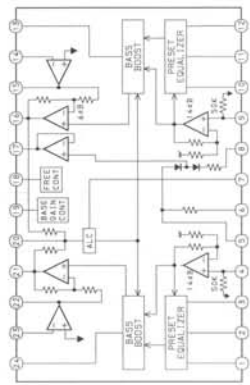
IC, LA1838L



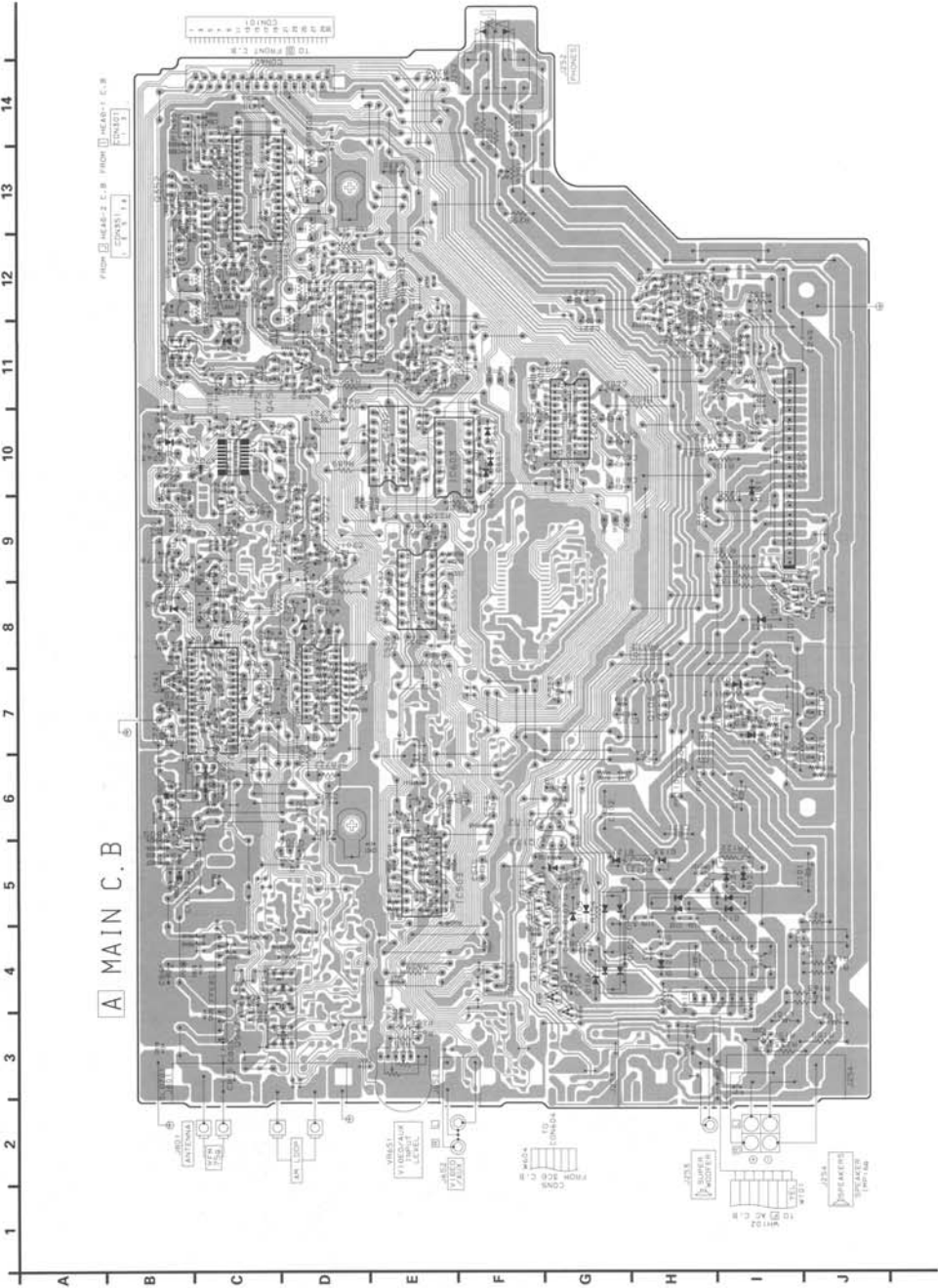
IC, HA12134A

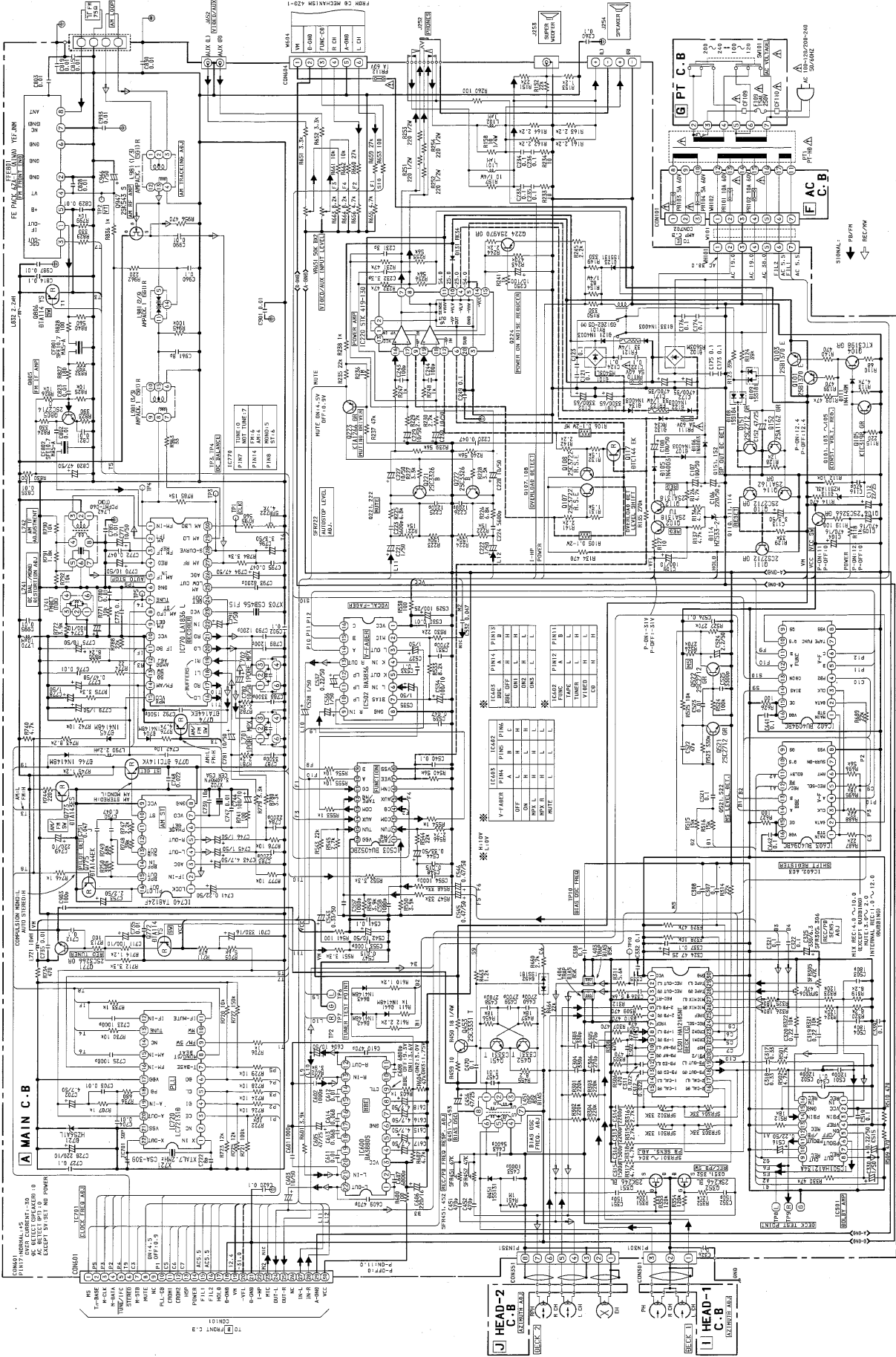


IC, BA3842F

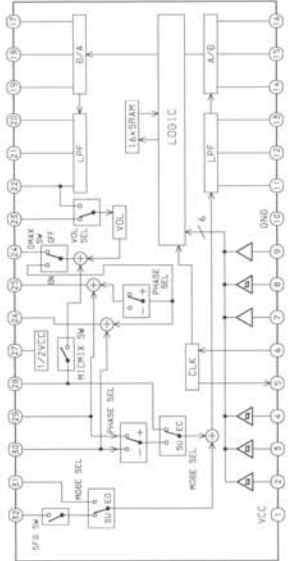


WIRING - 2 (MAIN : HD)

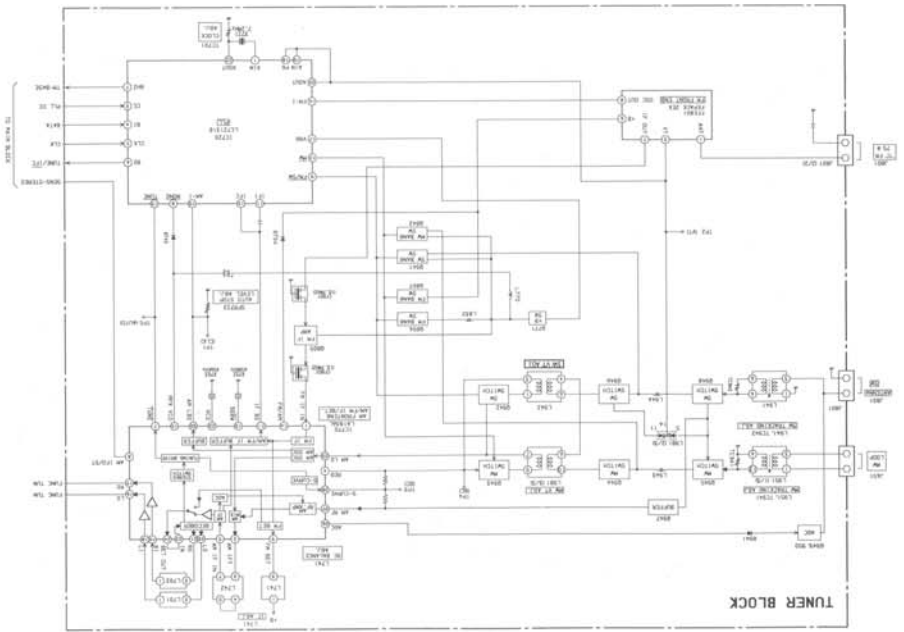




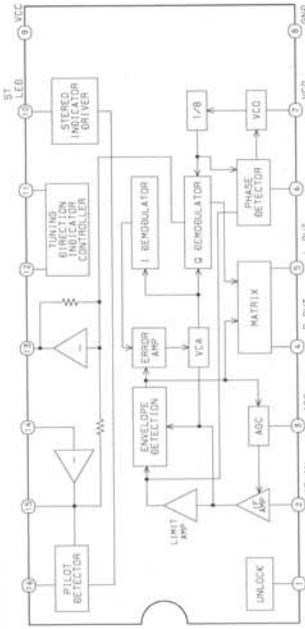
IC BLOCK DIAGRAM - 1
IC: M5584FP-6000



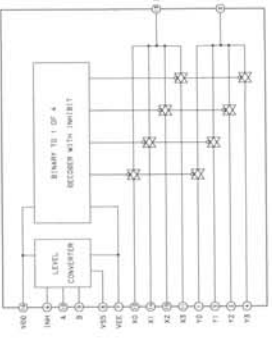
BLOCK DIAGRAM - 4 (TUNER: HR)



IC: TA8124F



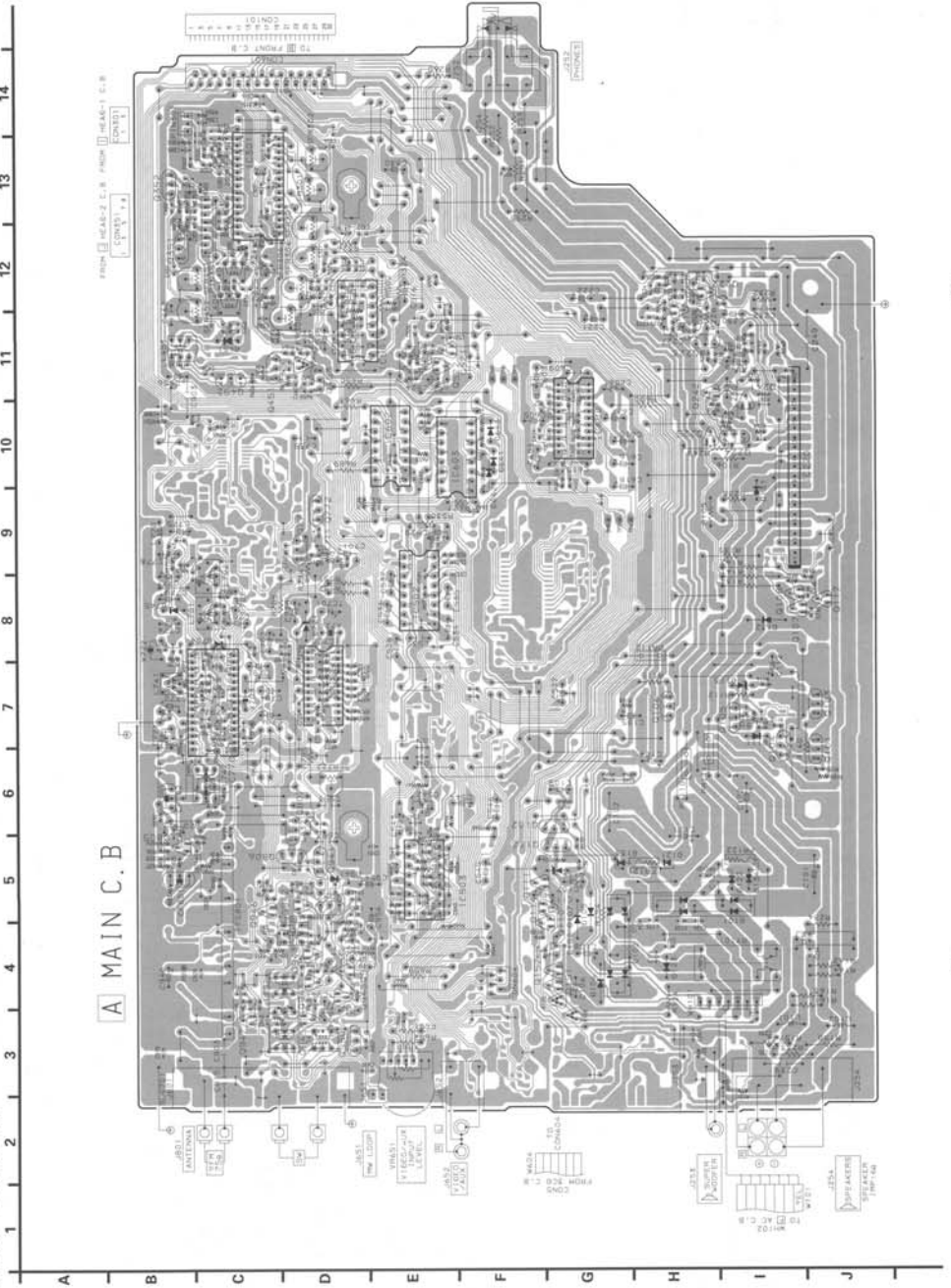
IC: BU4062BC/BCF

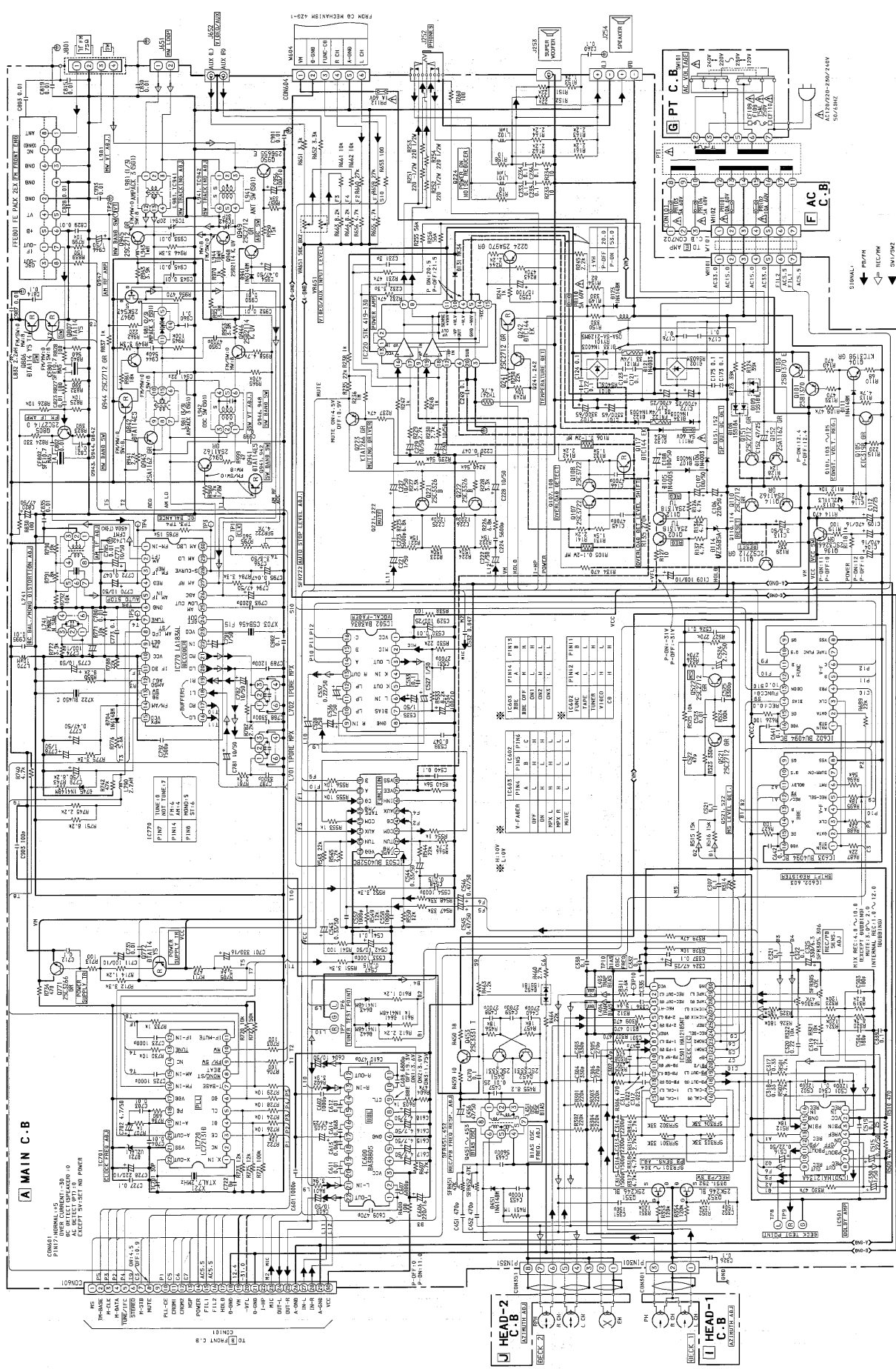


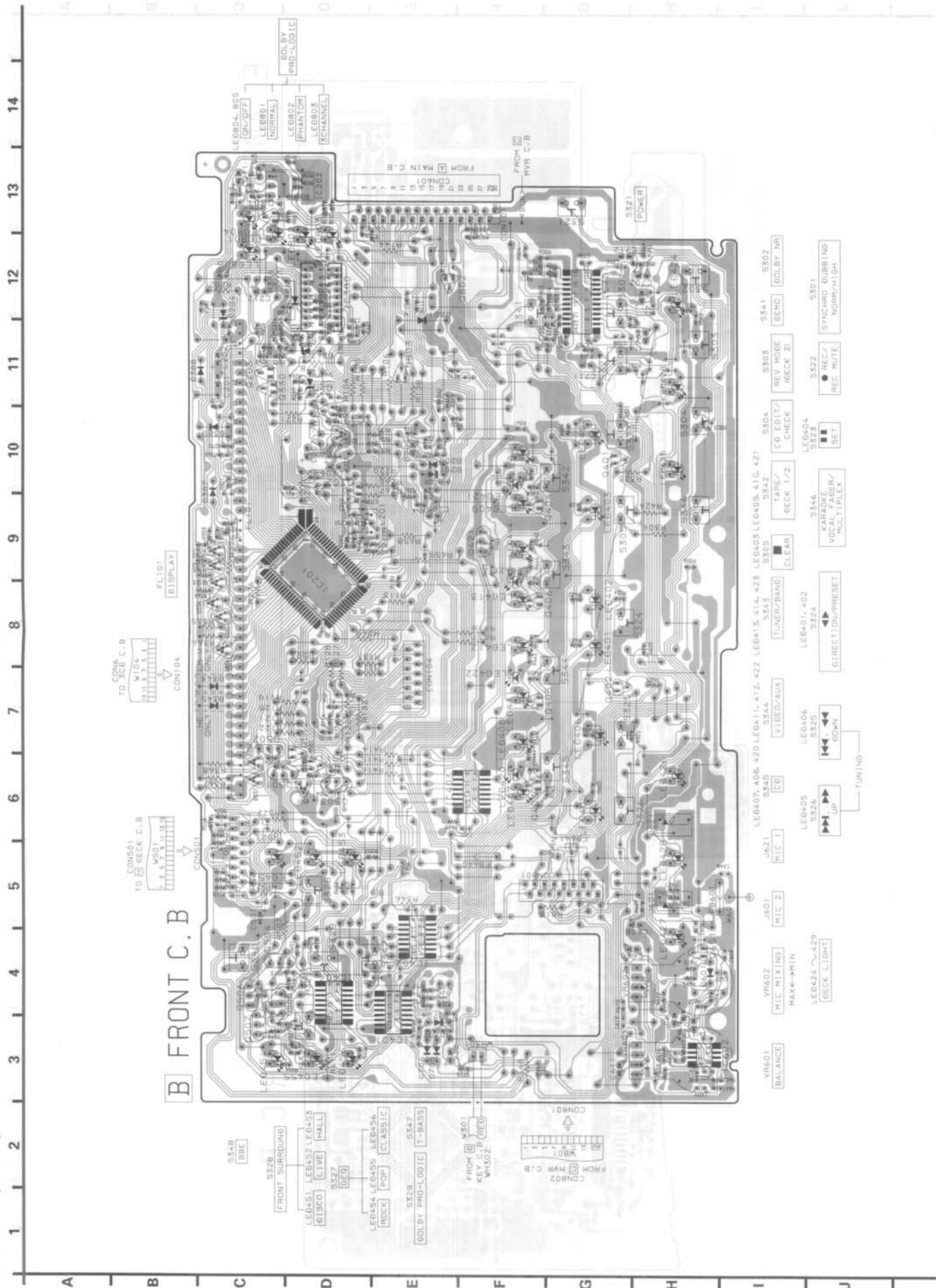
TRUTH TABLE

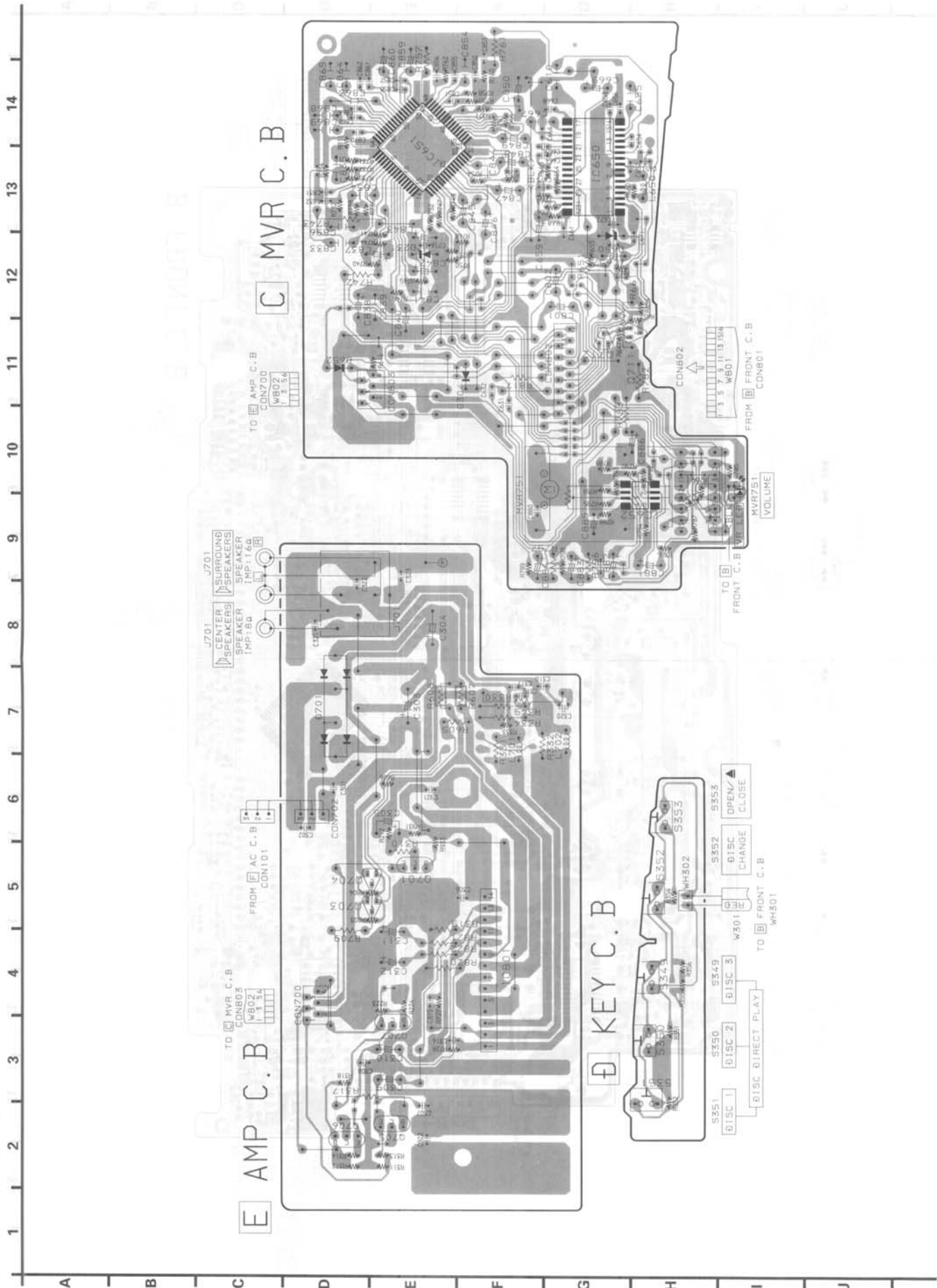
INPUTS	A	B	ON SWITCH
1	L	L	L
2	L	L	L
3	L	L	L
4	L	L	L
5	L	L	L
6	L	L	L
7	L	L	L
8	L	L	L
9	L	L	L
10	L	L	L
11	L	L	L
12	L	L	L
13	L	L	L
14	L	L	L
15	L	L	L
16	L	L	L
17	L	L	L
18	L	L	L
19	L	L	L
20	L	L	L
21	L	L	L
22	L	L	L
23	L	L	L
24	L	L	L
25	L	L	L
26	L	L	L
27	L	L	L
28	L	L	L
29	L	L	L
30	L	L	L
31	L	L	L
32	L	L	L
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35	L	L	L
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43	L	L	L
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51	L	L	L
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79	L	L	L
80	L	L	L
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83	L	L	L
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85	L	L	L
86	L	L	L
87	L	L	L
88	L	L	L
89	L	L	L
90	L	L	L
91	L	L	L
92	L	L	L
93	L	L	L
94	L	L	L
95	L	L	L
96	L	L	L
97	L	L	L
98	L	L	L
99	L	L	L
100	L	L	L

WIRING - 3 (MAIN: HR)

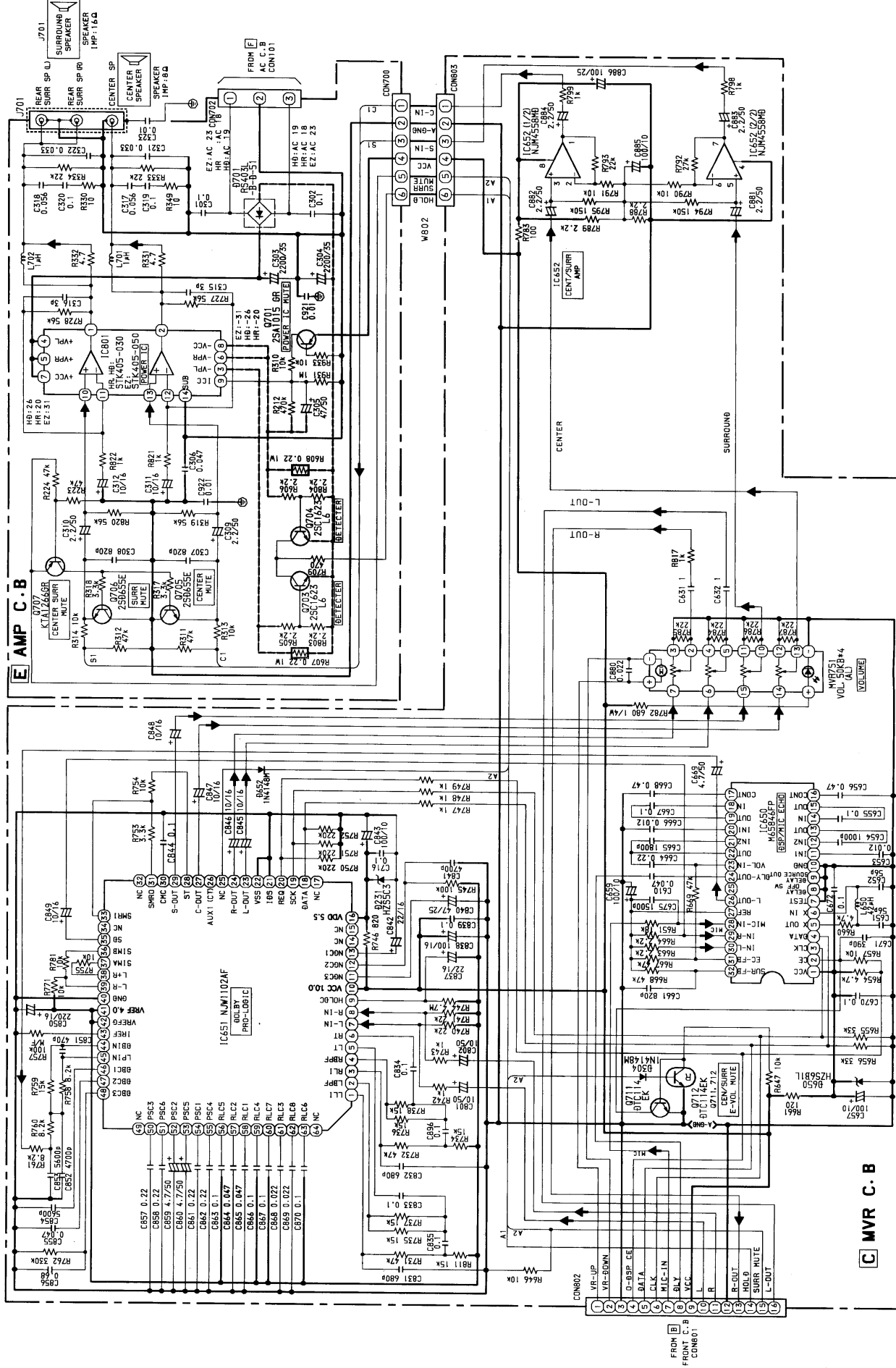




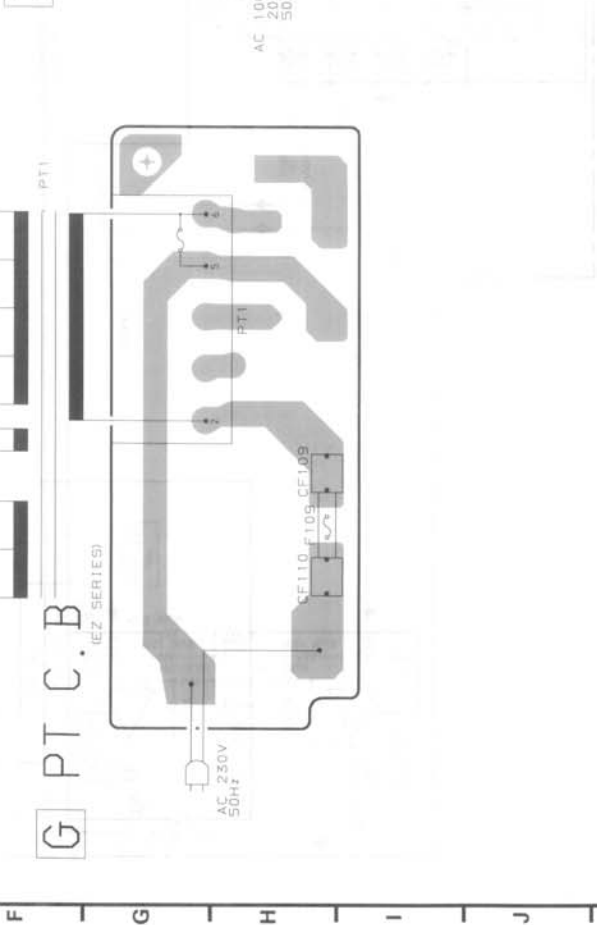
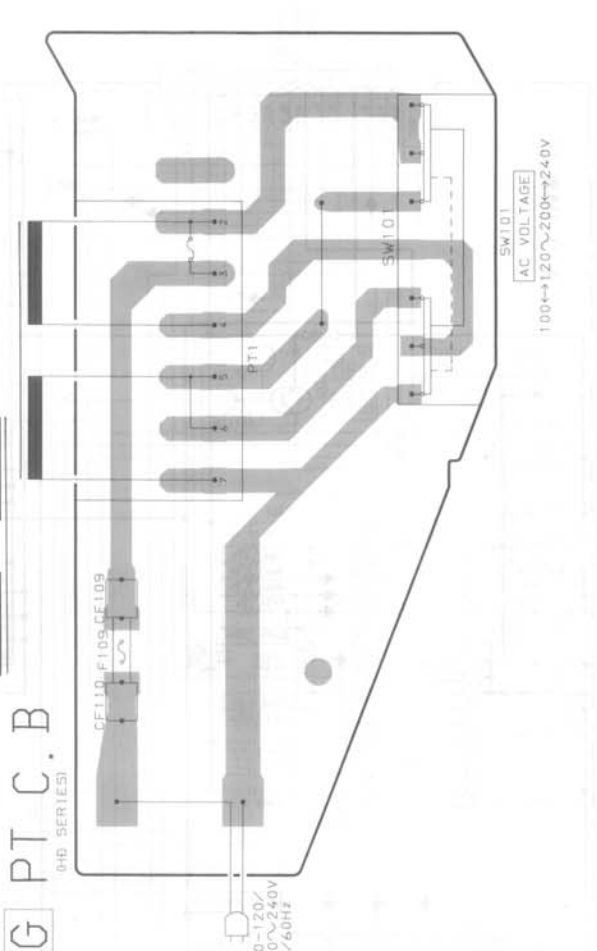
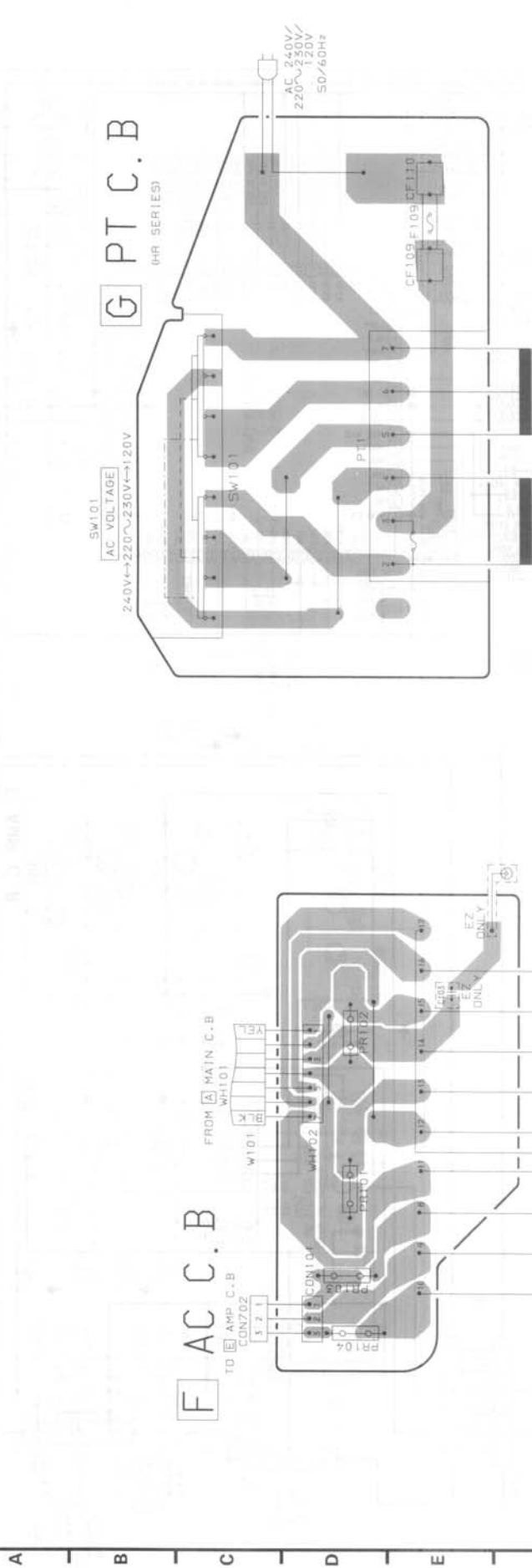


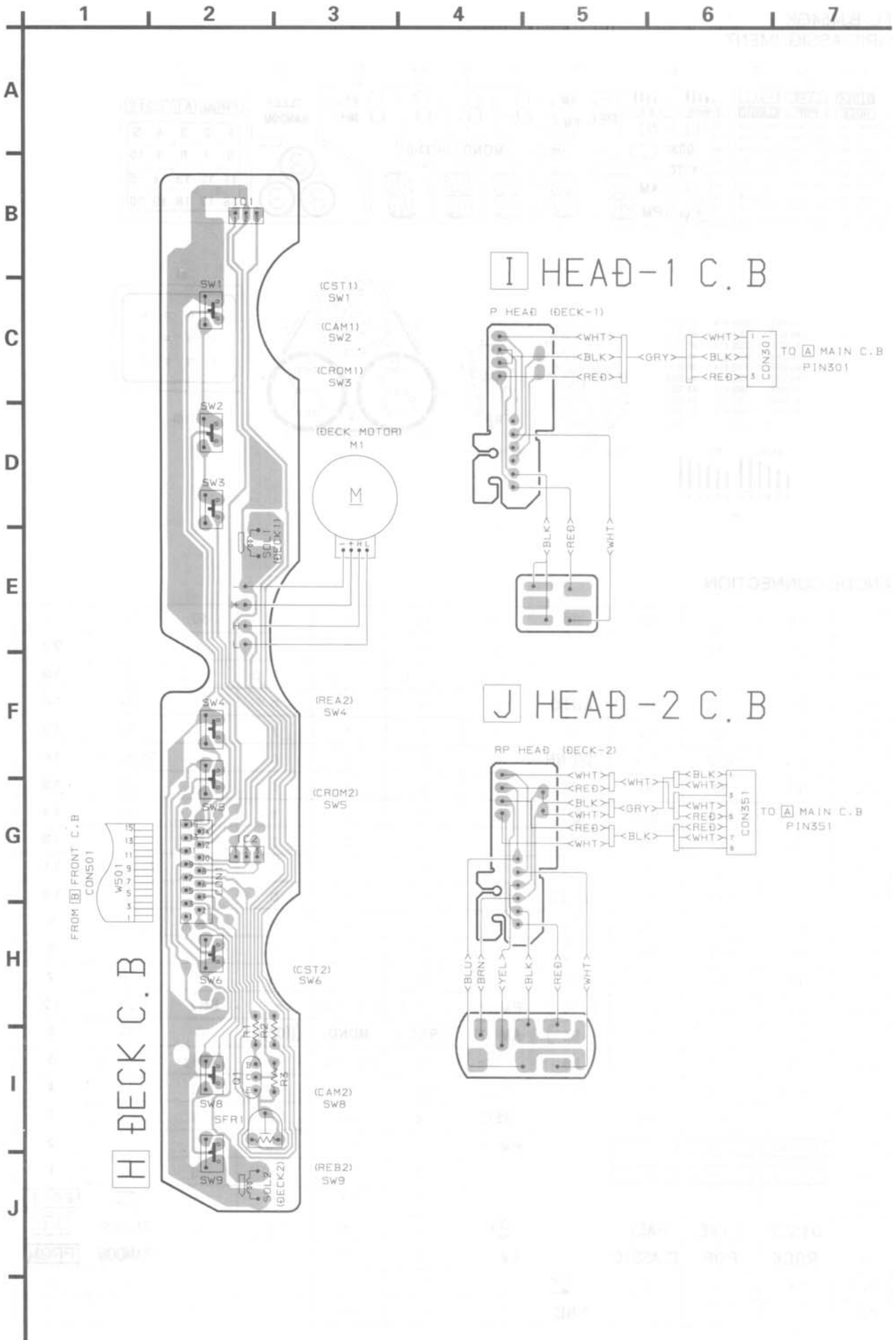


SCHEMATIC DIAGRAM - 5 (MVR/AMP)

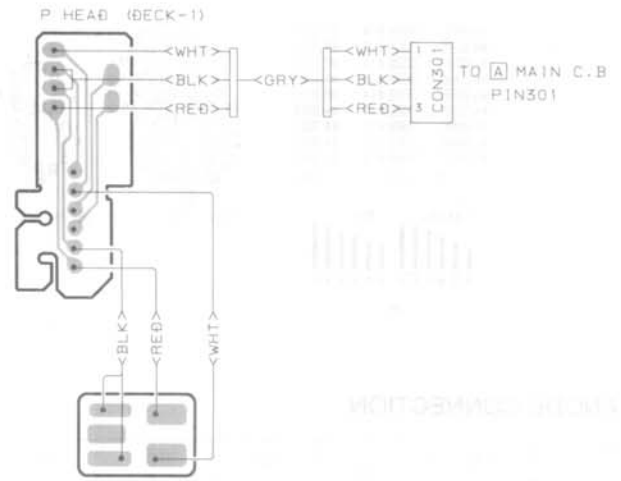


1 2 3 4 5 6 7 8 9 10 11 12 13 14

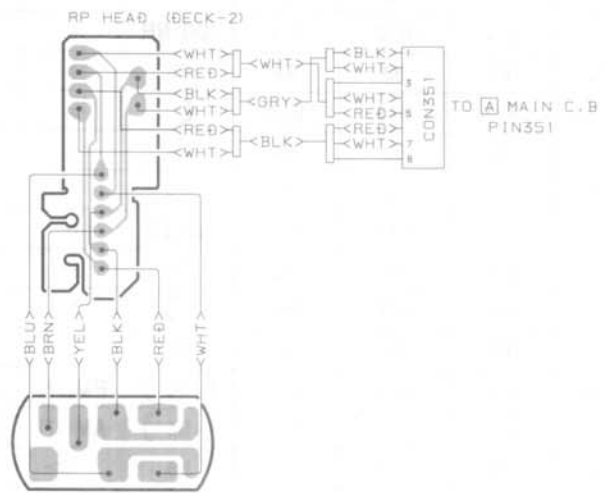




I HEAD-1 C. B



J HEAD-2 C. B

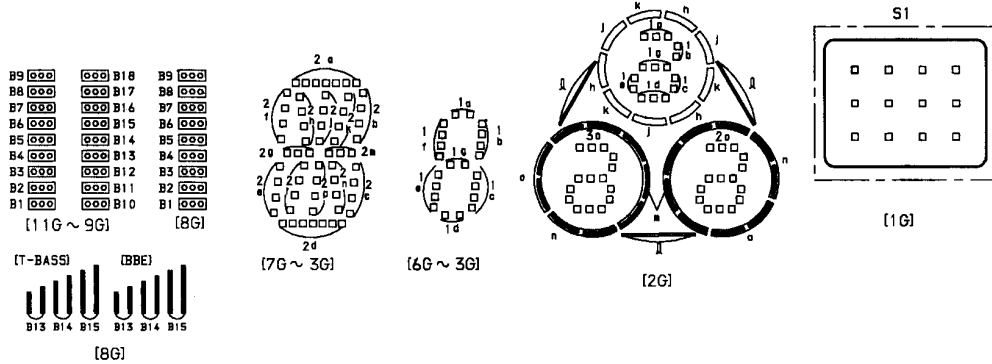
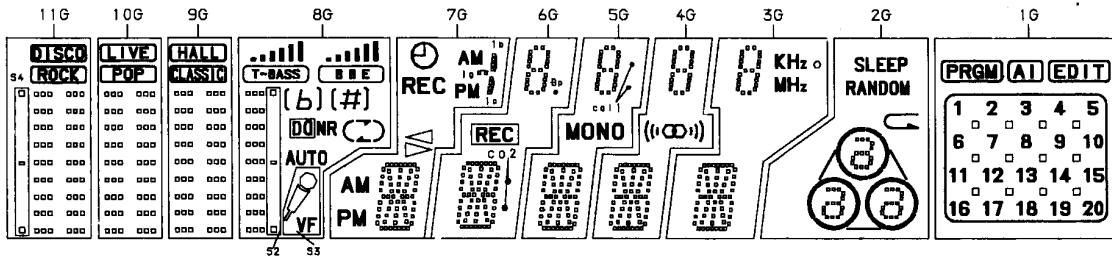


H DECK C. B

FROM [B] FRONT C. B
CON301

FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ454GK GRID ASSIGNMENT



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	S3	d	d	d	d	d	n	20
P2	B1	B1	B1	B1	j, p	j, p	j, p	j, p	j, p	o	19
P3	B11	B11	B11	AUTO	n	n	n	n	n	3e	18
P4	B2	B2	B2	B2	r	r	r	r	r	3c	17
P5	B12	B12	B12	NR	c	c	c	c	c	3a,3d,3g	16
P6	B3	B3	B3	B3	e	e	e	e	e	3b	15
P7	B13	B13	B13	(m	m	m	m	m	2e	14
P8	B4	B4	B4	B4	g	g	g	g	g	2c	13
P9	B5	B5	B5	B5	f	f	f	f	f	2a,2d,2g	11
P10	B15	B15	B15	b #	b	b	b	b	b	l	10
P11	B6	B6	B6	B6	k	k	k	k	k	j	9
P12	B16	B16	B16)	h	h	h	h	h	h	8
P13	B7	B7	B7	B7	a	a	a	a	a	k	7
P14	B14	B14	B14	(#)	PM [F]	co 2	co 1 [L]	—	KHz	2b	12
P15	B17	B17	B17	(b)	AM [F]	REC	MONO	((()))	o	1e	6
P16	B8	B8	B8	B8	▷	▷p	co 1 [L]	—	MHz	1a,1d,1g	5
P17	B18	B18	B18	B12	◁	1d	1d	1d	1d	1c	4
P18	B9	B9	B9	B9	REC	1e	1e	1e	1e	1b	3
P19	(ROCK)	(POP)	(CLASSIC)	B13	PM [L]	1c	1c	1c	1c	—	2
P20	(DISCO)	(LIVE)	(HALL)	B14	1g	1g	1g	1g	1g	m	1
P21	—	—	—	B11	1b, 1c	1f	1f	1f	1f	◁	EDIT
P22	DISCO	LIVE	HALL	B10	⌚	1b	1b	1b	1b	SLEEP	AI
P23	ROCK	POP	CLASSIC	B15	AM [L]	1a	1a	1a	1a	RANDOM	PRGM
P24	S4	—	—	S2	Z	—	—	—	—	—	S1
P25	—	—	—	BBE	—	—	—	—	—	—	—

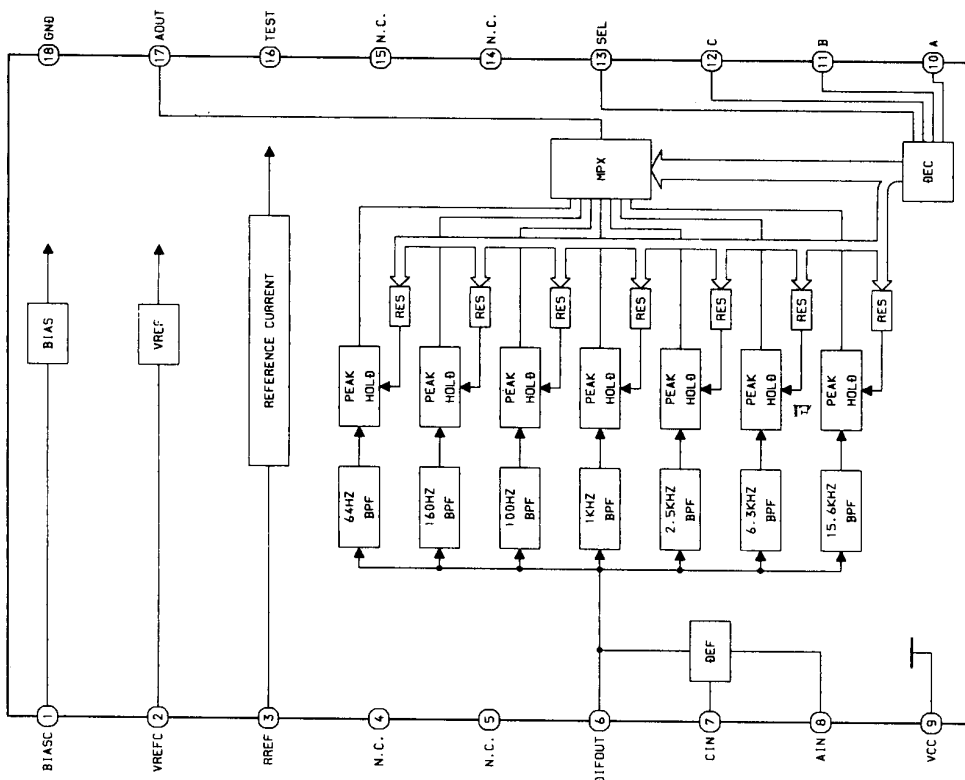
IC DESCRIPTION

IC, LC866440W-5A91

Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL IC chip enable.
2	O-DSP/CE	O	DSP data latch strobe output.
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	I-HP	I	"L" input DSP, PROLOGIC off.
7	$\overline{\text{RESET}}$	I	Reset input.
8	$\overline{\text{I-STEREO}}$	I	Tuner stereo detected input.
9	$\overline{\text{I-TUNE/IFC}}$	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-CD/DISH	I	CD turntable photo sensor A/D converter input.
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-TM BASE	I	Reference clock input for timer watch.
23	$\overline{\text{I-HOLD}}$	I	Power failure detected input "L" to stop clock and maintain memory.
24	$\overline{\text{I-RMC}}$	I	System remote control signal input.
25~35	G11~G1	O	FL grid output G11~G1.
36~40	P23~P19	O	FL segment output P23~P19.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input (-34.5V) for FL display.
43	P18/ $\overline{\text{CST1}}$	I	FL segment output P18, DECK1 cassette detect switch data input.
44	P17/ $\overline{\text{AUTO1}}$	I	FL segment output P17, DECK1 auto stop signal input.
45	P16/ $\overline{\text{CAM1}}$	I	FL segment output P16, DECK1 cam switch data input.
46	P15/ $\overline{\text{CAM2}}$	I	FL segment output P15, DECK2 cam switch data input.
47	P14/ $\overline{\text{AUTO2}}$	I	FL segment output P14, DECK2 auto stop signal input.
48	P13/ $\overline{\text{CST2}}$	I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/ $\overline{\text{REA2}}$	I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/ $\overline{\text{REB2}}$	I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/ $\overline{\text{MD}}$	I	FL segment output P10, MD Func mode data input to diode.
52	P1/ $\overline{\text{AM-ST,FM-W}}$	I	FL segment output P1, AM stereo, FM-WIDE mode data input to diode.
53	P2/ $\overline{\text{AM10K}}$	I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/ $\overline{\text{LW}}$	I	FL segment output P3, LW mode data input to diode.
55	P4/ $\overline{\text{SW}}$	I	FL segment output P4, SW mode data input to diode.
56	P5/ $\overline{\text{PRO}}$	I	FL segment output P5, No PROLOGIC data input to diode.
57	P6/ $\overline{\text{NO-DSP}}$	I	FL segment output P6, NO-DSP data input to diode.
58	P7/ $\overline{\text{KEY-CON}}$	I	FL segment output P7, key control data input to diode.

Pin No.	Pin Name	I/O	Description
59	P8/PAL	I	FL segment output P8, PAL data input to diode.
60	P9/OIRT	I	FL segment output P9, OIRT mode data input to diode.
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 turntable forward rotation output.
65	O-POWER	O	System power supply ON/OFF output.
66	O-SOL1	O	DECK1 solenoid output.
67	O-SOL2	O	DECK2 solenoid output.
68	O-MOTOR	O	DECK motor output.
69	O-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	O-CD/DATA	O	CD IC control data output.
75	O-CD/XTL	O	CD IC control latch strobe output.
76	O-CD/CLK	O	CD IC control clock output.
77	I-CD/SENSE	I	CD IC control data bus data input.
78	O-CD/SQ-DATA	O	CD IC control data bus data output.
79	O-CD/SQ-CLK	O	CD IC control data bus clock output.
80	O-MUTE	O	System mute output.

IC BLOCK DIAGRAM - 3
IC, BA3834S

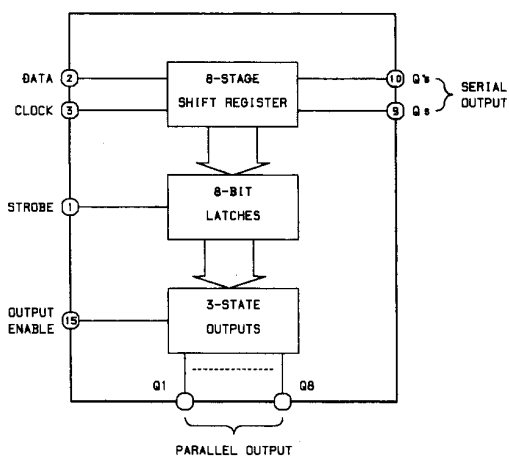


IC, LC72131D

Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866432V-5A45) when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866432V-5A45).																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <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> </thead> <tbody> <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> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <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> </thead> <tbody> <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> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	-	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	-	Ground.																								

IC BLOCK DIAGRAM - 4

IC, BU4094BC/BCF



TRUTH TABLE

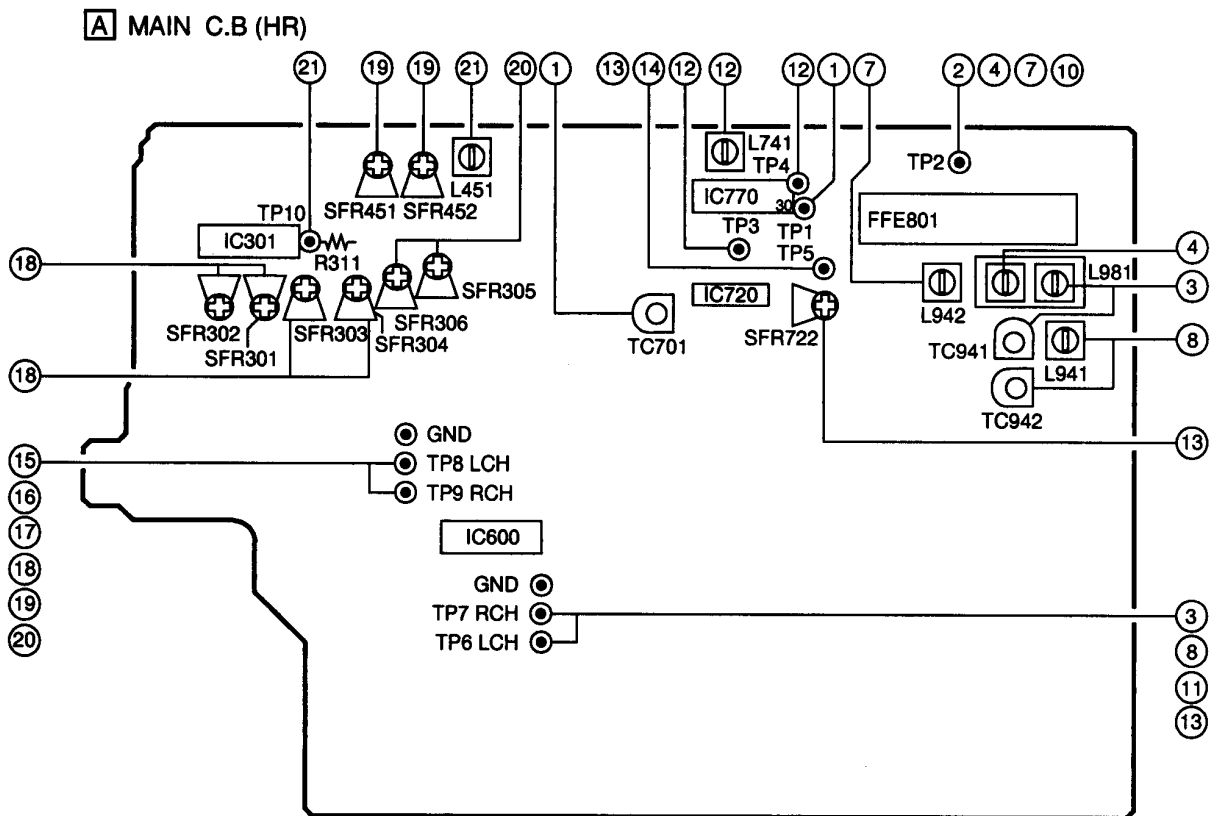
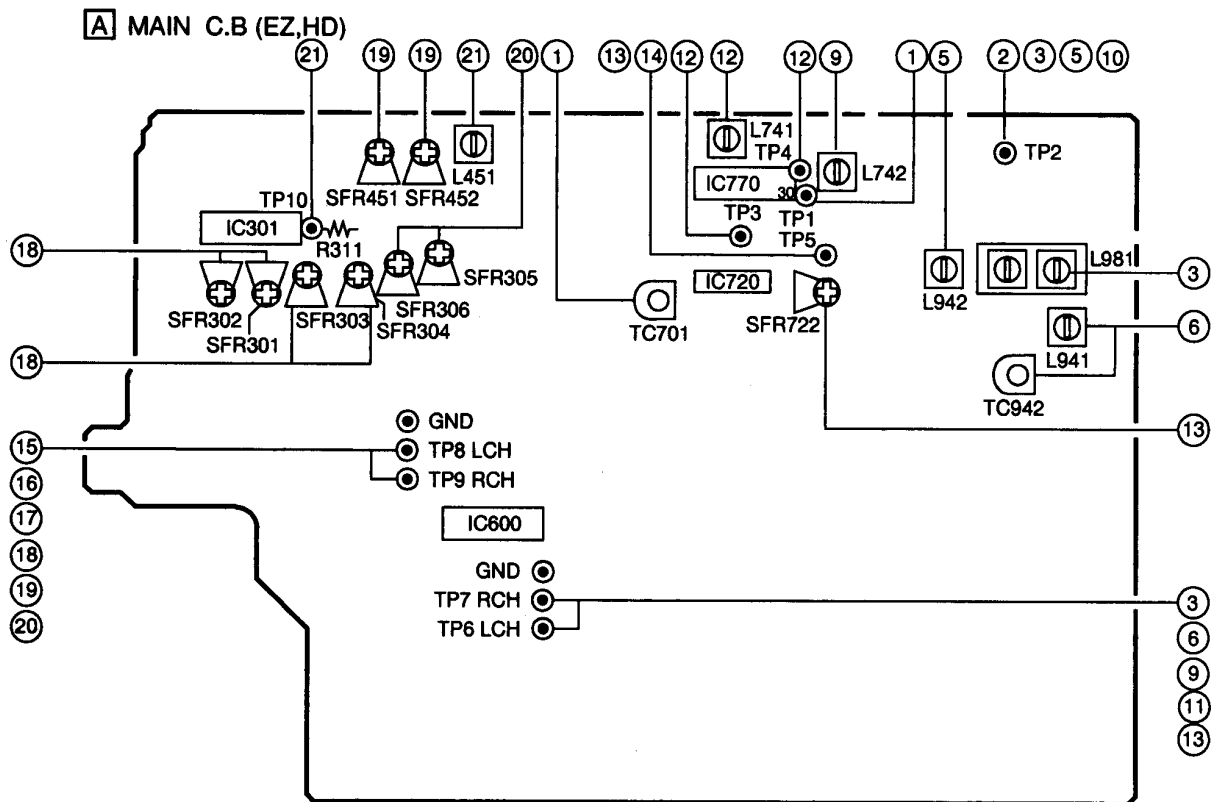
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Q7	Q8
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	No Chg.	Q8
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Q8

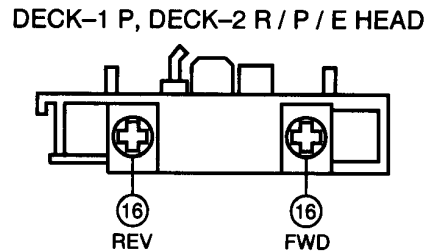
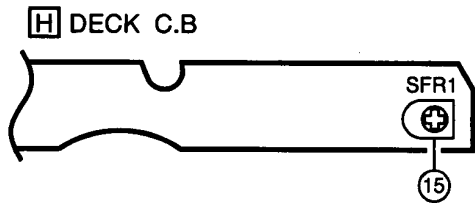
Z=High Impedance

IC, NJW1102AFG1

Pin No.	Pin Name	I/O	Description
1	LLI	I	Lch BPF in.
2	LBPF	O	Lch BPF feed back out.
3	RLI	I	Rch BPF in.
4	RBPF	O	Rch BPF feed back out.
5	LT	O	Lch selector #1 out.
6	RT	O	Rch selector #1 out.
7	LIN	I	Lch signal input.
8	RIN	I	Rch signal input.
9	HOLDC	I	Auto input balance control.
10	VCC	-	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14,15	NC	-	Not connect.
16	VDD	-	Power supply.
17	NC	-	-
18	DATA	I	Serial data input.
19	SCK	I	Serial clock input.
20	REQ	I	Serial request (strobe) input.
21	IDS	I	IC select sw.
22	VSS	-	GND.
23	LOUT	O	Lch serial output.
24	ROUT	O	Rch serial output.
25	AUX1	O	AUX1 output (serial data change parallel output).
26	CT	O	Cch output (before trimmer).
27	C-OUT	O	Cch output (after trimmer).
28	ST	O	Sch output (before trimmer).
29	S-OUT	O	Sch output (after trimmer).
30	CMC	I	Center mode control.
31	SMRO	O	Sch amp (front L,R mix) output.
32	NC	-	-
33	SMRI	I	Sch amp (front L,R mix) input.
34	AUX2	O	AUX2 output (serial data change parallel output).
35	SD	O	Selector #2 out (to delay IC).
36	SIMBB	I	Selector #2 input B (L-R).
37	SIMBA	I	Selector #2 input A (L+R).
38	L+R	O	L+R ch output.
39	L-R	O	L-R ch output.
40	GND	-	Gnd.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.
44	DBIBN	O	Output to modify dolby B IC (included NJW1102).
45	LPIN	I	From delay input.
46~48	DBC 1~3	I	Dolby B NR control.
49	NC	-	-
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	-	-

ADJUSTMENT <TUNER / DECK>





< TUNER SECTION >

1. Clock Frequency Adjustment
 - Settings : • Test point : TP1 (CLK IC770 pin30)
 - Adjustment location : TC701
 - <EZ,HD>
 - Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz \pm 0.01kHz.
 - <HR>
 - Method : Set to MW 1710kHz and adjust TC701 so that the test point becomes 2160kHz \pm 0.01kHz.
2. MW VT Check
 - Settings : • Test point : TP2 (VT)
 - <EZ,HD>
 - Method : Set to MW 1602kHz and check that the test point is 6.8V \pm 1.0V.
 - <HR>
 - Method : Set to MW 1710kHz and check that the test point is 7.0V \pm 1.0V.
3. MW Tracking Adjustment
 - <EZ,HD>
 - Settings : • Test point : TP6, TP7
 - Adjustment location :

L981	999kHz
------------	--------
 - Method : The level at 999kHz is adjusted to MAX by L981.
 - <HR>
 - Settings : • Test point : TP6, TP7
 - Adjustment location :

L981	600kHz
TC941	1400kHz
 - Method : Set up TC941 to center before adjustment. The level at 600kHz is adjusted to MAX by L981. Then the level at 1400kHz is adjusted to MAX by TC941.
4. 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 \pm 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.
5. LW VT Adjustment <EZ>
 - Settings : • Test point : TP2 (VT)
 - Adjustment location : L942
 - Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V \pm 0.05V.
6. LW Tracking Adjustment <EZ>
 - Settings : • Test point : TP6, TP7
 - Adjustment location :

L941	144kHz
TC942	290kHz
 - Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.
7. 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 8.0V \pm 0.05V.
8. SW Tracking Adjustment <HR>
 - Settings : • Test point : TP6, TP7
 - Adjustment location :

L941	5.9MHz
TC942	17.9MHz
 - Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjusted to MAX by L941. Then the level at 17.9MHz is adjusted to MAX by TC942.
9. AM IF Adjustment<EZ,HD>
 - Settings : • Test point : TP6, TP7
 - Adjustment location : L742
 - Method : Set to MW 999kHz and adjust L742 so that the test point becomes maximum.
10. FM VT Check
 - Settings : • Test point : TP2 (VT)
 - <EZ,HR>
 - Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.3V (87.5MHz) and less than 8.0V (108.0MHz).
 - <HD>
 - Method : Set to FM 76.0MHz, 108.0MHz and check that the test point is more than 1.0V (76.0MHz) and less than 8.5V (108.0MHz).

11. FM Tracking Check
 Settings : • Test point : TP6, TP7
 <EZ>
 Method : • Set to FM 98.0MHz and check that the test point is 6dB \pm 6dB.
 <HD,HR>
 Method : • Set to FM 83.0MHz and check that the test point is 3dB \pm 6dB.
12. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4 (DC balance)
 : TP6, TP7 (Distortion)
 • Adjustment location : L741
 • Input level : 54dB
 Method : Set to FM 98.0MHz (EZ,HR), 83.0MHz (HD) and adjust L741 so that the voltage between TP3 and TP4 becomes 0V \pm 0.04V.
 Next, check that the distortion is less than 1.3%.

13. Auto Stop Level Adjustment
 Settings : • Test point : TP5
 • Adjustment location : SFR722
 • Input level : 16dB
 Method : • Set to FM 98.0MHz (EZ,HR), FM 83.0MHz (HD) and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

14. Auto Stop Level Check
 MW
 Settings : • Test point : TP5
 • Input level : 50dB
 Method : Set to MW 999kHz and check that the test point is 45 ~ 65 dB.
- FM
 Settings : • Test point : TP5
 • Input level : 18dB
 <EZ,HR>
 Method : Set to FM 98.0MHz and check that the test point is 20 dB \pm 5 dB.
 <HD>
 Method : Set to FM 83.0MHz and check that the test point is 20 dB \pm 5 dB.
 SW<HR>
 Settings : • Test point : TP5
 • Input level : 65dB
 Method : Set to SW 12.0MHz and check that the test point is less than 65 dB.

< DECK SECTION >

15. 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 \pm 5Hz.

16. 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 and REV PLAY mode.

17. 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 \pm 2dB.

18. 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.

19. 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 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.

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

21. Bias OSC Frequency Adjustment
 Settings : • Test tape : TTA-615
 • 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 85 kHz \pm 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

<EZ>

IHF Sensitivity : -2dB ~ 14dB
 (THD 3%) [at 87.5 / 98.0MHz]
 0dB ~ 16dB
 [at 108.0MHz]
 S/N 46dB Quieting sensitivity :
 Less than 39dB
 [at 87.5 / 98.0 / 108.0MHz]
 Signal to noise ratio : (MONO) More than 60dB
 [at 98.0MHz]
 (STEREO) More than 57dB
 [at 98.0MHz]
 Distortion : (MONO) Less than 1.3%
 [at 98.0MHz]
 (STEREO) Less than 2.0%
 [at 98.0MHz]
 Auto stop level : 20dB ± 10dB [at 98.0MHz]
 Stereo separation : More than 20dB [at 98.0MHz]
 Intermediate frequency : 10.7MHz

<HD>

IHF Sensitivity : -3 dB ~ 9 dB
 (THD 3%) [at 76.0 / 83.0 / 108.0MHz]
 S/N 50dB Quieting sensitivity :
 Less than 36dB
 [at 76.0 / 83.0 / 108.0MHz]
 Signal to noise ratio : (MONO) More than 65dB
 [at 83.0MHz]
 (STEREO) More than 64dB
 [at 83.0MHz]
 Distortion : (MONO) 1.3%
 [at 83.0MHz]
 (STEREO) Less than 2%
 [at 83.0MHz]
 Auto stop level : 20dB ± 10dB [at 83.0MHz]
 Stereo separation : More than 25dB [at 83.0MHz]
 Intermediate frequency : 10.7MHz

<HR>

IHF Sensitivity : 3dB ± 6dB
 (THD 3%) [at 87.5 / 98.0MHz]
 6dB ± 6dB
 [at 108.0MHz]
 S/N 50dB Quieting sensitivity :
 Less than 36dB
 [at 87.5 / 98.0 / 108.0MHz]
 Signal to noise ratio : (STEREO) More than 64dB
 [at 98.0MHz]
 (MONO) More than 65dB
 [at 98.0MHz]
 Distortion : (STEREO) Less than 2%
 [at 98.0MHz]
 (MONO) Less than 1.3%
 Auto stop level : 20dB ± 10dB [at 98.0MHz]
 Stereo separation : More than 25dB [at 98.0MHz]
 Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity : 52 ~ 62dB
 (S/N 20 dB) [at 603kHz]
 48 ~ 58dB
 [at 999 / 1404kHz]
 Signal to noise ratio : More than 35dB
 [at 999kHz]
 Distortion : Less than 1.5%
 [at 999kHz]
 Auto stop level : 42 ~ 68dB
 [at 999kHz]
 Intermediate frequency : 450kHz
 <HD>
 Stereo separation : More than 12dB
 (999kHz)

<SW SECTION>(HR only)

Sensitivity : 33 ~ 43dB (5.90MHz)
 (S/N 20dB) 27 ~ 37dB (12.0MHz)
 25 ~ 35dB (17.9MHz)
 Distortion : Less than 2.0% (12.0MHz)
 Intermediate frequency : 450kHz

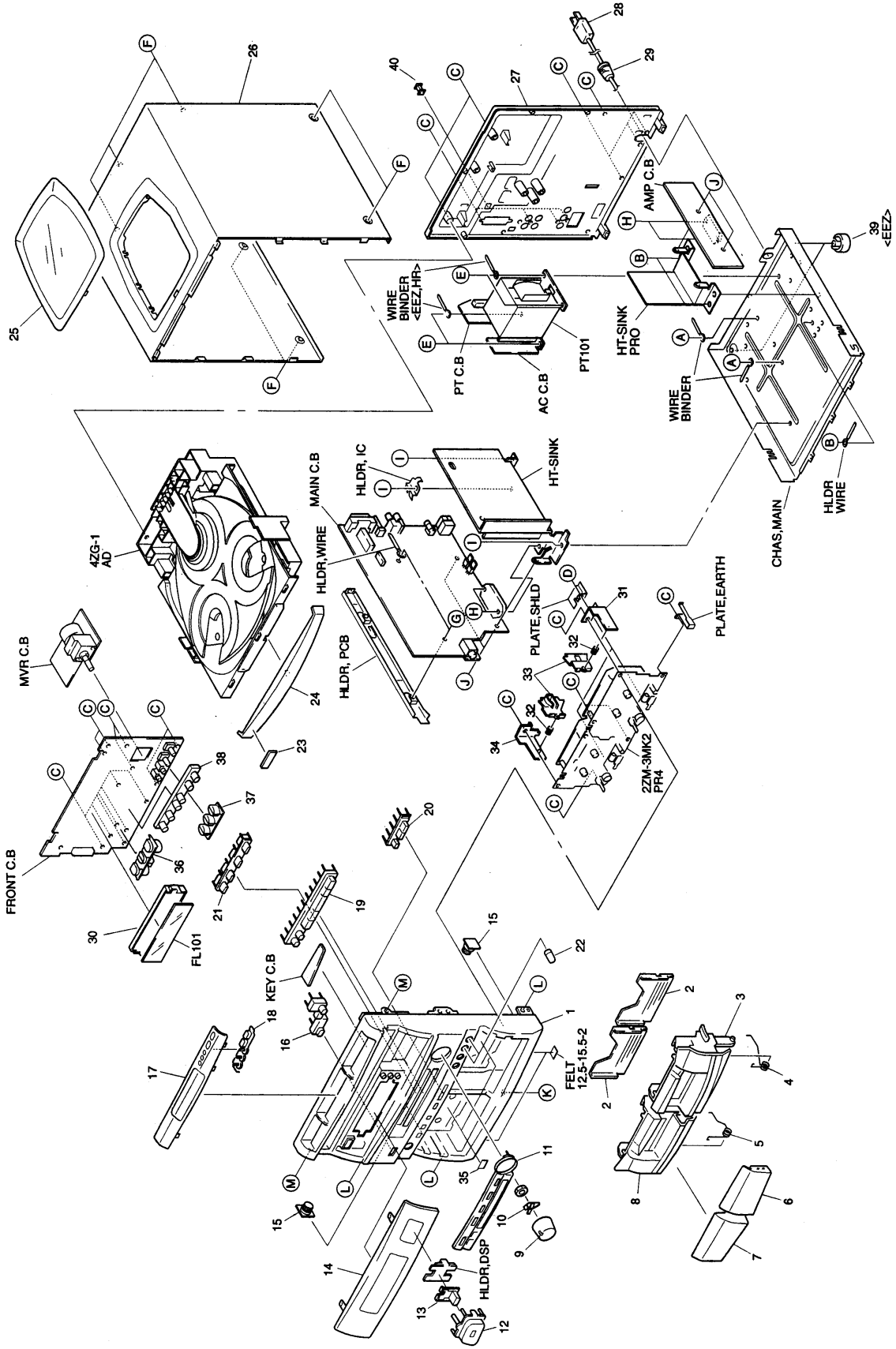
<LW SECTION> <E, K, EZ>

Sensitivity : 64dB ± 5dB (144kHz)
 (S/N 20dB) 62dB ± 5dB (198kHz)
 60dB ± 5dB (290kHz)
 Distortion : Less than 1.4% (198kHz)
 Intermediate 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 : 2.8V ± 2dB
 (SP OUT 2V)
 REC/PB output level : 1.6V ± 2dB<EEZ,HR>
 2.0V ± 2dB<HD>
 (SP OUT 2V)
 Distortion (REC/PB) : Less than 2.0%
 (NORM, CrO₂)
 Noise level (PB) : Less than 110mV
 (NORM, SP OUT 2V, DOLBY OFF)
 Less than 90mV
 (CrO₂, SP OUT 2V, DOLBY OFF)
 Noise level (REC/PB) : Less than 120mV
 (DOLBY OFF, NORM, SP OUT 2V)
 Less than 100mV
 (DOLBY OFF, CrO₂, SP OUT 2V)
 Crosstalk : More than 58dB
 (1kHz, 0VU)
 Channel separation : More than 45dB
 (1kHz, 0VU)
 Erasing ratio : More than 60dB
 (at 125Hz)
 Test tape : TTA-602 (NORMAL)
 TTA-615 (CrO₂)

MECHANICAL EXPLODED VIEW 1/1

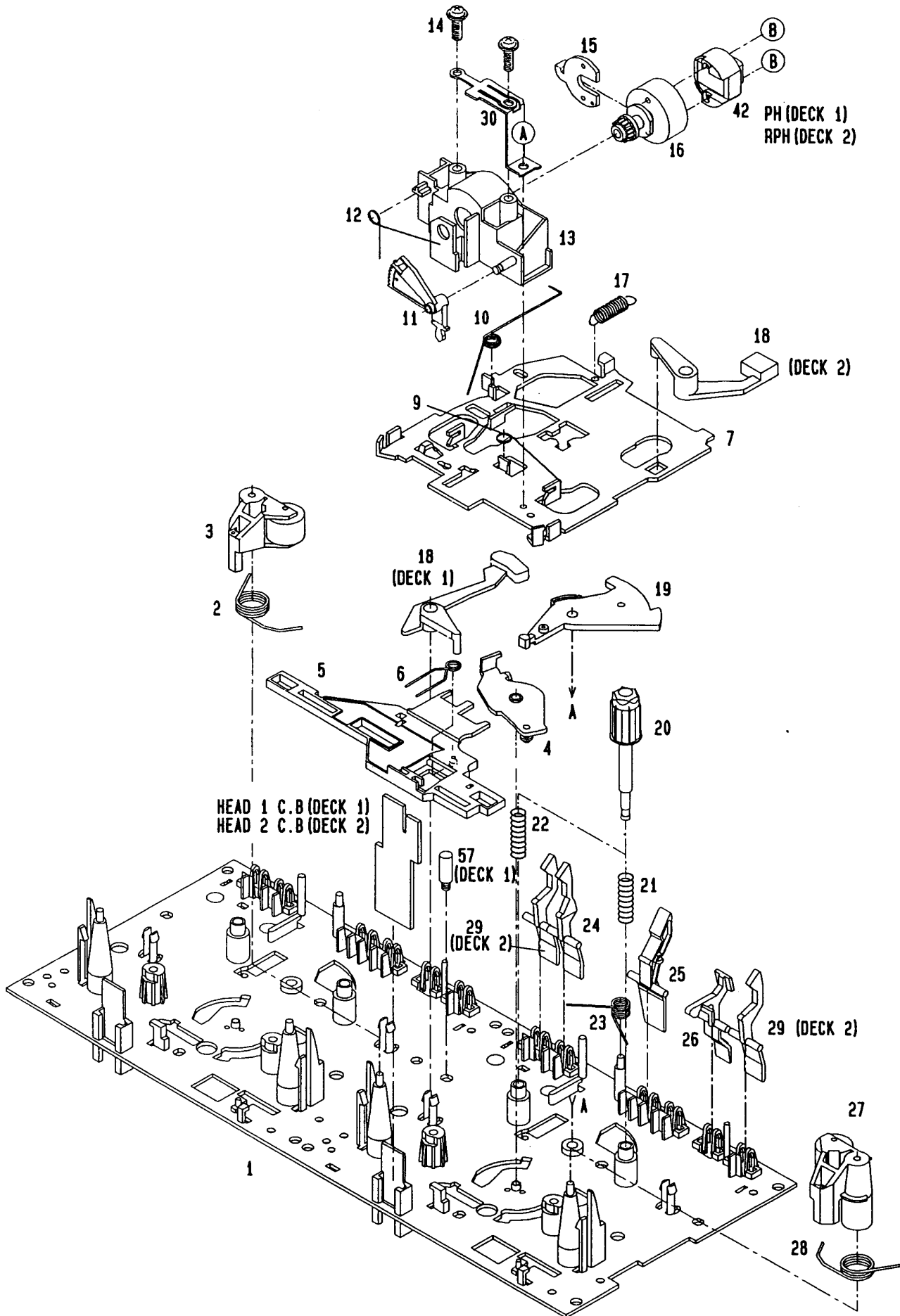


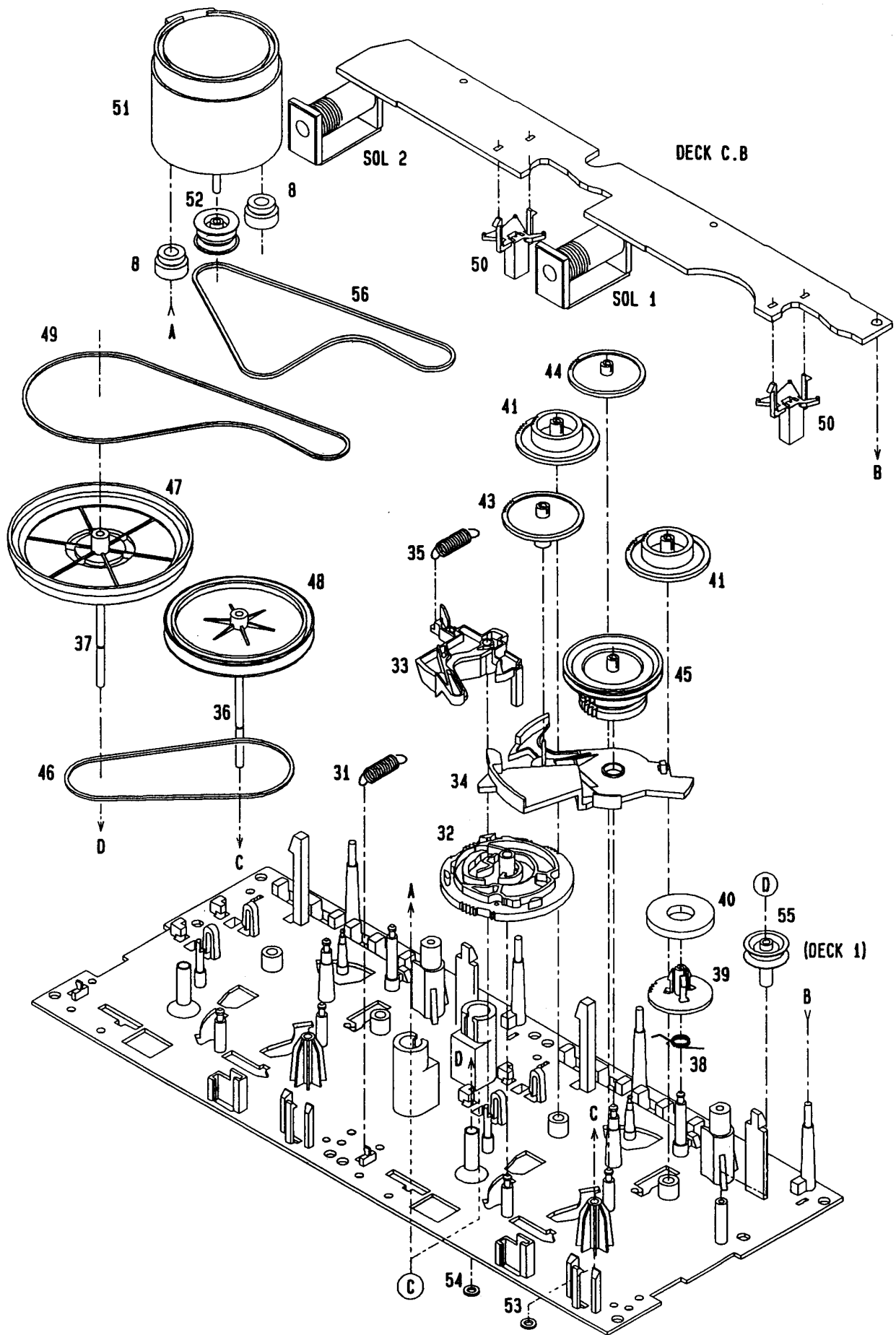
MECHANICAL PARTS LIST 1/1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NFS-003-01S		CABI, FR E[ST]<EEZ>	27	86-NFS-011-01S		PANEL, REAR EEZSTNE[ST]<EEZ>
1	86-NFS-001-019		CABI, FR H[B]<HR>, [B]<HD>	△ 28	87-050-016-018		AC CORD ASSY, E[ST]<EEZ>
2	86-NF6-061-01S		REFLECTOR, CASS	△ 28	87-050-079-019		AC-CORD ASSY, E[B]<HR>
3	86-NF5-003-019		BOX, CASS R[B]<HR>, [B]<HD>	△ 28	87-050-097-019		AC-CORD ASSY, H[B]<HD>
3	86-NFS-014-01S		BOX, CASS R E[ST]<EEZ>	29	87-085-185-010		BUSHING, AC CORD E<EXCEPT [B]HD>
4	82-NF5-219-019		SPR-T, EJECT 2 (SIN)	29	87-085-184-010		BUSHING, CORD[B]<HD>
5	82-NF5-218-019		SRT-T, EJECT 1 (SIN)	30	82-NF5-212-019		GUIDE FL
6	86-NF5-007-01S		WINDOW, CASS R	31	82-NF5-227-019		HLDR, LOCK 2N
7	86-NF5-006-01S		WINDOW, CASS L	32	82-NF5-228-019		SPR-C, LOCK
8	86-NF5-002-019		BOX, CASS L[B]<HR>, [B]<HD>	33	82-NF5-229-019		PLATE, LOCK
8	86-NFS-013-01S		BOX, CASS L E[ST]<EEZ>	34	82-NF5-226-019		HLDR LOCK 1N
9	86-NF5-020-01S		KNOB, RTRY MAIN	35	81-532-080-019		LBL, CASS-COMPT
10	86-NF5-021-019		LENS, VOL	36	85-NF5-210-119		GUIDE, LED L
11	86-NF5-009-01S		PANEL, FUN	37	85-NF5-211-119		GUIDE, LED R
12	86-NFW-022-01S		KEY, DSP	38	86-NF5-202-019		GUIDE, LED PLAY
13	86-NFS-018-01S		KEY, PRO	39	87-085-221-019		FOOT, H 13.5[ST]<EEZ>
14	86-NFS-020-01S		WINDOW, DISPLAY	40	84-ZG1-245-110		CAP, OPTICAL
15	87-063-165-019		OIL-DMPR 150	A	87-067-585-019		BVTT +4-6
16	86-NF5-010-019		KEY, POWER[B]<HR>, [B]<HD>	B	87-067-584-019		BVT2+36 W/O SLOT
16	86-NFS-026-01S		KEY, POWER[ST]<EEZ>	C	87-067-703-019		BVT2+3-10 (W/O SLOT)
17	86-NF5-005-01S		WINDOW, CD	D	87-571-032-419		VIT+2-3
18	86-NF5-018-01S		KEY, OPEN	E	87-078-083-019		BUTT SEMS+4-8SW
19	86-NF5-016-01S		KEY, PLAY	F	87-067-641-019		UTT2+3-8 W/O SLOT BLK
20	86-NF5-017-019		KEY, KARAOKE[B]<HR>, [B]<HD>	G	87-078-084-019		BVTT+3-6 W, CONVEX
20	86-NFS-028-01S		KEY, KARAOKE[ST]<EEZ>	H	87-067-581-019		BVT2+3-15 W/O SLOT
21	86-NF5-011-01S		KEY ASSY, FUN	I	87-067-579-019		BVT 2+3-8 W/O SLOT
22	86-NF6-050-01S		KNOB, RTRY MIC M	J	87-067-633-019		BVT2+3-8 W/CONVEX
23	82-NE6-067-01S		BADGE AIWA 30N	K	87-067-716-019		BVTT+3-6 BLK
24	86-NFS-016-01S		PANEL, TRAY E[ST]<EEZ>	L	87-591-094-419		QIT + 3 - 6 GOLD
24	86-NF5-008-019		PANEL, TRAY H[B]<HR>, [B]<HD>	M	87-721-097-419		QT2+3-12 GLD
25	86-NF6-007-018		WINDOW, TOP				
26	86-NF3-038-010		CABI, STEEL 25J[B]<HR>, [B]<HD>				
26	86-NFS-037-010		CABI, STEEL TS[ST]<EEZ>				
27	86-NFS-034-019		CABI, REAR HD[B]<HD>				
27	86-NFS-040-019		CABI, REAR HR[B]<HR>				

TAPE MECHANISM EXPLODED VIEW 1/1



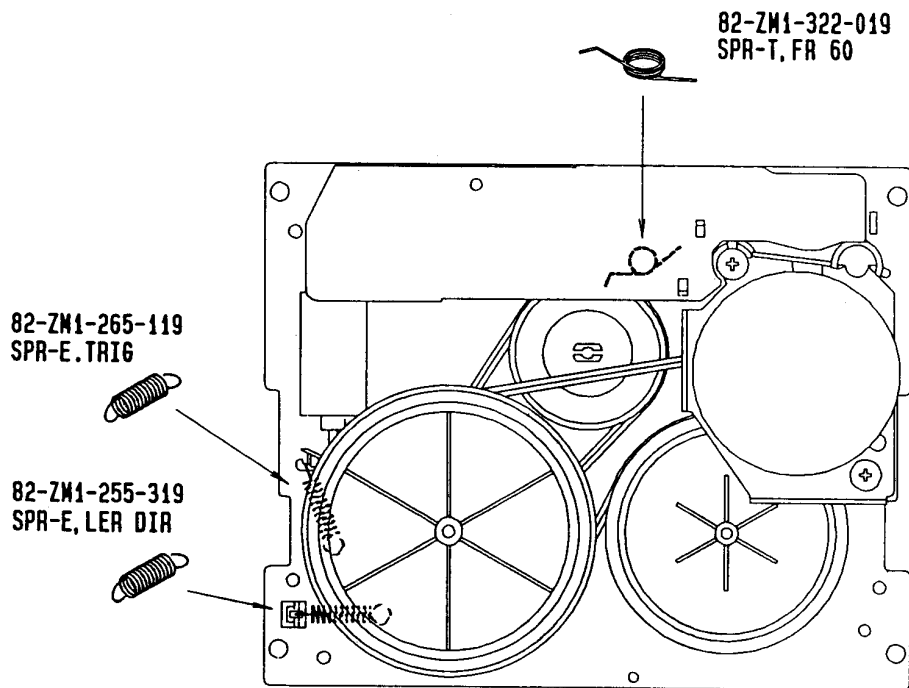
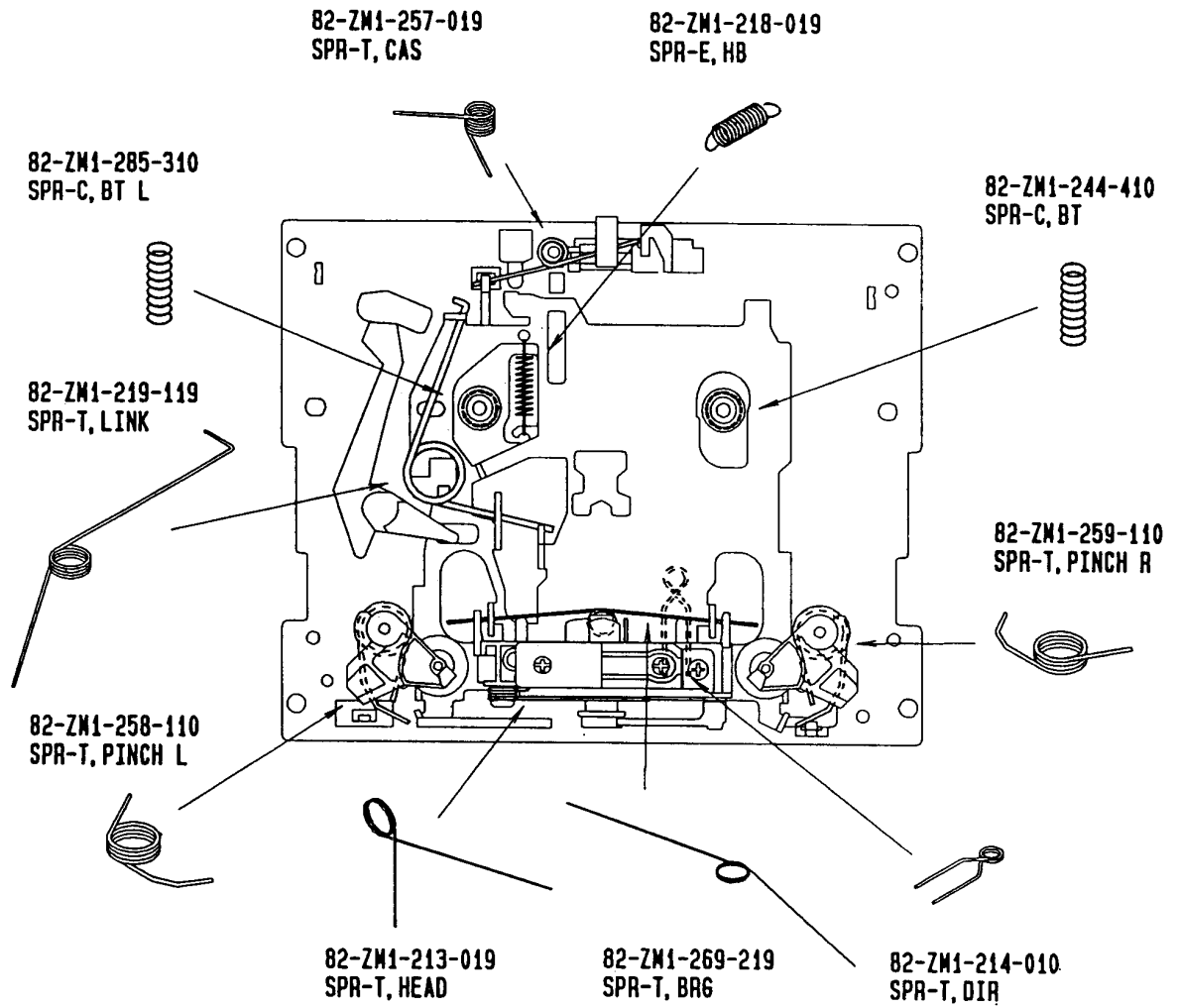


TAPE MECHANISM PARTS LIST 1/1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	35	82-ZM1-265-119		SPR-E,TRIG
2	82-ZM1-258-110		SPR-T,PINCH L	36	82-ZM1-236-019		CAPSTAN N 2-41.5
3	82-ZM1-345-019		LVR ASSY,PINCH L W	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE,LINK 2	38	82-ZM1-322-019		SPR-T,FR60
5	82-ZM1-266-11K		LVR,DIR	39	82-ZM1-220-219		GEAR,IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	82-ZM3-616-019		RING MAGNET 4
7	82-ZM1-206-81K		CHAS,HEAD	41	82-ZM1-216-31K		GEAR,REEL
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-046-355-019		HEAD,PH HADKH2529B(PH)
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-356-019		HEAD,RPH HADKH5581B(RPH)
10	82-ZM1-219-119		SPR-T,LINK	43	82-ZM1-225-21K		GEAR,FR
11	82-ZM1-210-119		GEAR,H T	44	82-ZM1-226-019		GEAR,REW
12	82-ZM1-213-019		SPR-T,HEAD	45	82-ZM1-228-810		SLIP DISK ASSY
13	82-ZM1-207-619		GUIDE,TAPE	46	82-ZM1-338-010		BELT FR4
14	82-ZM1-283-310		S-SCREW,AZIMUTH	47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (DECK 1)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	50	82-ZM1-245-210		HLDR,IC
19	82-ZM1-222-21K		LVR,PLAY	51	87-045-347-019		MOT,SHU2L 70(M1)
20	82-ZM1-217-319		REEL TABLE	52	82-ZM3-221-010		PULLEY,MOT 2M
21	82-ZM1-244-510		SPR-C,BT	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
23	82-ZM1-257-019		SPR-T,CAS	55	82-ZM3-304-110		PULLEY,COUPLER (DECK 1)
24	82-ZM1-241-319		LVR,MC	56	82-ZM3-328-110		BELT,SBU P2
25	82-ZM1-242-019		LVR,CAS	57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
26	82-ZM1-243-019		LVR,STOP	A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
27	82-ZM1-346-019		LVR ASSY,PINCH R W	B	80-ZM6-207-019		V+1.6-7
28	82-ZM1-259-110		SPR-T,PINCH R	C	82-ZM3-318-019		S-SCRW MOTOR M2
29	82-ZM1-240-11K		LVR,REC (DECK 2)	D	87-067-972-019		PW,1.05-3-0.25 SLT
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				

SPRING APPLICATION POSITION



REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

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-NFS-904-018		IB,E(EGFSI)E<EEZ>
1	86-NFS-902-019		IB,H(ECA)M<HR>
1	86-NFS-906-010		IB,HD(ECA)I<HD>
1	86-NFS-907-010		IB,H(ECA)I<HD>
2	85-NT3-661-019		RC-T506<HR,HD>
2	85-NT3-662-018		RC-T506<EEZ>
3	87-006-225-019		AM LOOP ANT NC2<EEZ,HD>
3	87-A90-054-019		ANT,LOOP AM-CON C<HR>
4	87-043-095-019		5M(SW)WIRE-ANT(S)<HR>
5	87-043-115-019		ANT,FEEDER FM<HR,HD>
5	87-043-106-019		ANT,FM 1007AWG<EEZ>
△ 6	87-099-789-019		PLUG,ADPTR IR44<HR>
△ 6	87-009-724-019		PLUG,ADPTR IR39<HD>

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

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