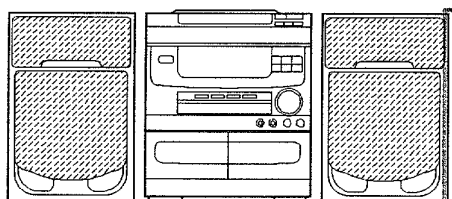


aiwa



NSX-V50 NSX-V52 NSX-V54 NSX-V51G



COMPACT DISC STEREO
CASSETTE SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3 PR6N
- BASIC CD MECHANISM: 4ZG-1TGFR

- TYPE. (50):HE,HR,HK,LH,U,C,G (52):U
(54):U (51G):HD,HE,HR,HK,U

SYSTEM	CENTER UNIT	SPEAKER
NSX-V50 (HE,HR,HK,LH,U,C,G)	CX-NV50	SX-FNV50L (HE,HR,HK,LH) SX-FNV50 (U,C,G)
NSX-V52 (U)	CX-NV52	SX-FNV50 (U)
NSX-V54 (U)	CX-NV54	SX-FNV50 (U)
NSX-V51G (HD,HE,HR,HK,U)	CX-NV51G	SX-FNV50L (HD,HE,HR,HK) SX-FNV50 (U)

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1T.
(S/M Code No. 09-94C-086-20T).

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SPECIFICATIONS

Main unit CX-NV50/NV51G/NV52/NV54

FM Tuner section

Tuning range	HD: 76 MHz to 108 MHz EXCEPT HD: 87.5MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM (MW) Tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

SW Tuner section (HE, HR, HK only)

Tuning range	SW1: 3.20 MHz to 7.30 MHz SW2: 9.50 MHz to 21.85 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	HD, HE, HK, LH, G: 50 W+50 W (6 ohms, T.H.D. 10%, 1 kHz) HR: Rated 38 W+38 W (6 ohms, T.H.D. 1%, 1 kHz) Reference: 50 W+50 W (6 ohms, T.H.D. 10%, 1 kHz) C: 40 W+40 W (6 ohms, T.H.D. 1%, 1 kHz) U: FTC RULE 40 watts per channel, Min. RMS at 6 ohms, from 65 Hz to 12 kHz, with no more than 1% Total Harmonic Distortion
Total Harmonic distortion	HD, HE, HR, HK: 0.1% (50 W, 1 kHz, 6 ohms) LH, U, C, G: 0.1% (50 W, 1 kHz, 6 ohms. DIN-AUDIO)
Inputs	VIDEO/AUX: 150 mV adjustable MIC 1, MIC 2: 1 mV (10 kohms) 1.0 Vp-p (75 ohms)
Outputs	SUPER WOOFER: 2.45 V SPEAKERS: accepts speakers of 6 ohms or more SURROUND SPEAKERS: accepts 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 above 5 kHz)
Recording system	AC bias
Heads	Deck 1: Playback head $\times$ 1 Deck 2: Recording/playback/erase head $\times$ 1

Compact disc player section

Laser	Semiconductor laser ($\lambda=780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Video signal (CX-NV51G only)	NTSC/PAL color format

SPEAKER SYSTEM SX-FNV50/SX-FNV54/SX-FNV50L

Cabinet type	3 way, bass reflex with surround speaker (Magnetism sealed type)
Speaker	Woofer: 140 mm (5 $\frac{5}{8}$ in.) cone type Tweeter: 80 mm (3 $\frac{1}{4}$ in.) cone type Super tweeter: 50 mm (2 in.) ceramic type Surround speaker: 80 mm (3 $\frac{1}{4}$ in.) cone type Front speaker: 6 ohms Surround speaker: 16 ohms
Impedance	87 dB/W/m
Output sound pressure level	206 $\times$ 302 $\times$ 260 mm (8 $\frac{1}{8}$ $\times$ 12 $\times$ 10 $\frac{1}{4}$ in.)
Dimensions (W $\times$ H $\times$ D)	3.6 kg (7 lbs. 15 oz.)
Weight	

General

Power requirements	HD: 100-120 V/200-240 V AC, switchable 50/60 Hz HE, HR, HK, LH: 120 V/220-230 V/240 V AC, switchable 50/60 Hz U, C: 120 V AC fixed 60 Hz G: 230-240 V AC, fixed 50 Hz
Power consumption	HE, HK: 85 W LH, HD, HR: 100 W U, C: 110 W G: 120 W
Dimensions of main unit (W $\times$ H $\times$ D)	260 $\times$ 306.8 $\times$ 339.5 mm (10 $\frac{1}{4}$ $\times$ 12 $\frac{1}{8}$ $\times$ 13 $\frac{3}{8}$ in.)
Weight of main unit	HD, HE, U, C: 7.3 kg (16 lbs. 2 oz.) HR, HK, LH, G: 7.5 kg (16 lbs. 9 oz.)

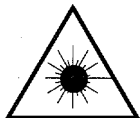
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!

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



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

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

WARNING!

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

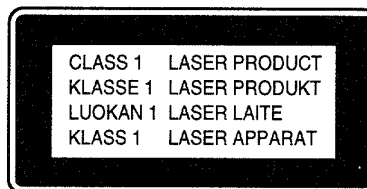
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig 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.

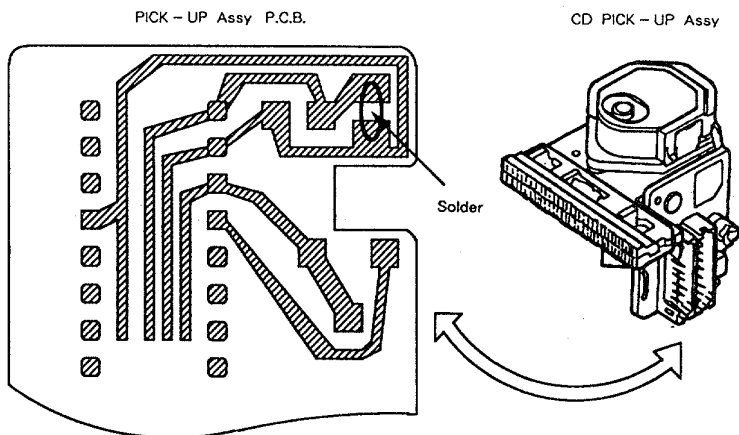
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS-210A)

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

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



ELECTRICAL MAIN PARTS LIST

※ 1G=NV51G

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
IC				87-002-608-080			DIODE, DSF10TC
	87-020-454-010	IC, DN6851		87-001-914-080			ZENER, UTZJ6.2B
	85-NF6-602-010	IC, LC866432V-5752		87-070-136-080			ZENER, MTZJ5.1B
	87-070-083-010	IC, GP1U281X		87-020-331-080			C-DIODE, DAN202K
	87-001-582-010	IC, STK41522		87-001-290-080			ZENER, HZS6B1L
	87-070-121-010	IC, HA12185NT		87-020-330-080			C-DIODE, DAP202K
	87-070-232-010	IC, BA3834S		87-001-559-080			DIODE, 1SS131
	87-017-375-080	IC, TC4094BF		87-017-148-080			ZENER, HZS6A1L
	87-001-874-010	IC, HA12134A		87-020-125-009			C-DIODE, 1SS181
	87-017-673-010	IC, BA3837					<EXCEPT 1GU, HD, LH, U, C, G>
	87-017-022-080	IC, NJM2068M-D(T1)		MAIN C.B			
	87-017-374-010	IC, TC4094BP		C102	87-010-390-090		CAP, ELECT 25-3300SME<EXCEPT HD>
	87-017-804-010	IC, BU4052BCP		C102	87-010-399-090		CAP, ELECT 35-3300SME<HD>
	87-070-184-040	IC, M65846FP-600D		C104	87-010-235-080		CAP, E 470-16 SME
	87-017-787-010	IC, M62412P		C105	87-010-381-080		CAP, E 330-16 SME
	87-070-127-010	IC, LC72131		C106	87-010-764-080		CAP, E 47-63
	87-002-642-080	IC, TA8124F<HD>		C107	87-010-406-080		CAP, E 22-50 SME
	87-001-607-080	IC, NJM4558M		C108	87-010-406-080		CAP, E 22-50 SME
	87-017-714-010	IC, LA1836		C109	87-010-263-080		CAP, E 100-10
	87-017-675-080	IC, M65840FP		C112	87-010-382-080		CAP, E 22-25 SME
		<1GHE, 1GHR, 1GHK, 1GU, HD>					<1GHE, 1GHR, 1GHK, 1GU, HD>
	87-001-486-080	IC, ICP-N15T104<1GU, U, C>		C112	87-010-406-080		CAP, E 22-50 SME
TRANSISTOR							<50HE, 50HR, 50HK, LH, U, C, G>
	87-026-463-080	TR, 2SA933S(RS)		C113	87-010-403-080		CAP, E 3.3-50 SME
	89-213-702-010	TR, 2SB1370E		C115	87-016-247-080		C-CAP, 0.1-50F
	87-026-609-080	TR, KTA1266GR		C116	87-010-179-080		C-CAP, S 1200P-50 B
	87-026-610-080	TR, KTC3198GR					<50HE, 50HR, 50HK, LH, U, C, G>
	89-327-125-080	C-TR, 2SC2712GR		C116	87-012-140-080		C-CAP, S 470P-50 CH
	89-332-665-080	TR, 2SC3266GR					<1GHE, 1GHR, 1GHK, 1GU, HD>
	89-420-053-080	TR, 2SD2005R<1GU, U, C>		C117	87-010-196-080		C-CAP, S 0.1-25 F
	89-111-625-080	C-TR, 2SA1162GR		C118	87-010-196-080		C-CAP, S 0.1-25 F
	89-113-137-880	TR, 2SA1318TU		C119	87-010-196-080		C-CAP, S 0.1-25 F
	87-026-235-080	C-TR, DTC114EK		C126	87-016-055-090		CAP, E 3300-42 HI-R
	89-333-266-080	C-TR, 2SC3326B		C127	87-016-055-090		CAP, E 3300-42 HI-R
	87-026-211-080	C-TR, DTA144EK		C128	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-232-080	C-TR, DTA144WK		C131	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-226-080	C-TR, DTA143EK		C135	87-012-368-080		C-CAP, S 0.1-50 F<1GU, U, C>
	89-503-655-680	FET, 2SK365GR/BL		C152	87-010-260-080		CAP, E 47-25 SME
	89-333-317-080	TR, 2SC3331T		C213	87-010-401-080		CAP, E 1-50 SME
	89-109-521-080	TR, 2SA952K		C214	87-010-401-080		CAP, E 1-50 SME
	89-112-965-080	TR, 2SA1296GR		C215	87-010-182-080		C-CAP, S 2200P-50 B
	89-406-555-080	TR, 2SD655E		C216	87-010-182-080		C-CAP, S 2200P-50 B
	87-026-214-080	TR, DTA114YS		C217	87-010-404-080		CAP, E 4.7-50 SME
	87-026-219-080	TR, DTA144ES<HD>		C218	87-010-404-080		CAP, E 4.7-50 SME
	87-026-213-080	C-TR, DTC114YK<HD>		C221	87-010-400-080		CAP, E 0.47-50 SME<1GU, U, C>
	89-327-143-080	TR, 2SC2714(O)		C221	87-010-401-080		CAP, E 1-50 SME<EXCEPT 1GU, U, C>
	89-318-154-080	TR, 2SC1815Y		C222	87-010-400-080		CAP, E 0.47-50 SME<1GU, U, C>
		<EXCEPT 1GU, HD, LH, U, C, G>		C222	87-010-401-080		CAP, E 1-50 SME<EXCEPT 1GU, U, C>
	87-026-462-080	TR, 2SC1740S(RS)		C223	87-010-260-080		CAP, E 47-25 SME
		<EXCEPT 1GU, HD, LH, U, C, G>		C224	87-010-260-080		CAP, E 47-25 SME
	89-320-011-080	TR, 2SC2001K		C225	87-010-260-080		CAP, E 47-25 SME
		<EXCEPT 1GU, HD, LH, U, C, G>		C226	87-010-260-080		CAP, E 47-25 SME
	89-505-434-580	C-FET, 2SK543(4/5)		C227	87-018-209-080		CAP, TC-U 0.1-50 F
	89-318-155-080	TR, 2SC1815GR		C228	87-018-209-080		CAP, TC-U 0.1-50 F
		<EXCEPT 1GU, HD, LH, U, C, G>		C231	87-010-196-080		C-CAP, S 0.1-25 F
				C243	87-010-154-080		C-CAP, S 10P-50 CH
DIODE				C244	87-015-879-080		C-CAP, 10P CH
	87-017-978-080	DIODE, 1N4003		C245	87-018-208-080		CAP, TC-U 0.047-50 F
	87-020-027-080	C-DIODE, 1SS184		C250	87-010-197-080		C-CAP, S 0.01-25 B
	87-020-125-080	C-DIODE, 1SS181		C297	87-010-260-080		CAP, E 47-25 SME<EXCEPT 1GU, U, C>
	87-020-465-080	DIODE, 1SS133		C298	87-010-260-080		CAP, E 47-25 SME<EXCEPT 1GU, U, C>
	87-017-174-080	ZENER, HZS11A3L		C303	87-012-157-080		C-CAP, S 330P-50 CH
	87-070-150-080	ZENER, MTZJ33D		C304	87-012-157-080		C-CAP, S 330P-50 CH
	87-002-225-010	DIODE, DBF 40C-K10		C305	87-012-155-080		C-CAP, S 180P-50 CH
		<1GHR, 1GU, HD, 50HR, LH, U, C, G>		C306	87-012-155-080		C-CAP, S 180P-50 CH
	87-020-691-080	DIODE, 1SS132 T-72		C307	87-010-197-080		C-CAP, S 0.01-25 B
				C308	87-010-197-080		C-CAP, S 0.01-25 B

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C313	87-010-181-080		C-CAP,S 1800P-50 B	C553	87-010-178-080		C-CAP,S 1000P-50 B <1GU,LH,U,C,G>
C314	87-010-181-080		C-CAP,S 1800P-50 B	C553	87-010-183-080		C-CAP,S 2700P-50 B <EXCEPT 1GU,HD,LH,U,C,G>
C315	87-010-179-080		C-CAP,S 1200P-50 B	C554	87-010-178-080		C-CAP,S 1000P-50 B <1GU,LH,U,C,G>
C316	87-010-179-080		C-CAP,S 1200P-50 B	C554	87-010-183-080		C-CAP,S 2700P-50 B <EXCEPT 1GU,HD,LH,U,C,G>
C317	87-012-142-080		C-CAP,S 0.33-16 F	C557	87-010-178-080		C-CAP,S 1000P-50 B
C318	87-010-955-080		C-CAP,0.33-16 R	C558	87-010-178-080		C-CAP,S 1000P-50 B
C319	87-012-141-080		C-CAP,S 0.22-16 F	C641	87-010-196-080		C-CAP,S 0.1-25 F
C320	87-012-141-080		C-CAP,S 0.22-16 F	C642	87-010-196-080		C-CAP,S 0.1-25 F <EXCEPT LH,U,C,G>
C321	87-010-196-080		C-CAP,S 0.1-25 F	C701	87-010-381-080		CAP,E 330-16 SME
C322	87-010-196-080		C-CAP,S 0.1-25 F	C702	87-010-404-080		CAP,E 4.7-50 SME
C324	87-010-260-080		CAP,E 47-25 SME	C703	87-010-197-080		C-CAP,S 0.01-25 B
C325	87-010-370-080		CAP,E 330-6.3 SME	C704	87-010-197-080		C-CAP,S 0.01-25 B
C326	87-010-196-080		C-CAP,S 0.1-25 F	C711	87-010-263-080		CAP,E 100-10 SME 5X11
C332	87-010-196-080		C-CAP,S 0.1-25 F	C712	87-010-196-080		C-CAP,S 0.1-25 F
C334	87-010-406-080		CAP,E 22-50 SME	C721	87-010-313-080		C-CAP,S 18P-50 CH<HD>
C335	87-010-805-080		<50HE,50HR,50HK,LH,U,C,G> C-CAP,S 1-16F	C722	87-010-311-080		C-CAP,S 12P-50 CH
C336	87-010-805-080		C-CAP,S 1-16F	C723	87-010-178-080		C-CAP,S 1000P-50 B
C351	87-012-154-080		C-CAP,S 150P-50 CH	C725	87-010-178-080		C-CAP,S 1000P-50 B
C352	87-012-154-080		C-CAP,S 150P-50 CH	C727	87-010-196-080		C-CAP,S 0.1-25 F
C451	87-012-140-080		C-CAP,S 470P-50 CH	C728	87-010-248-080		CAP,E 220-10 SME
C452	87-012-140-080		C-CAP,S 470P-50 CH	C739	87-010-313-080		C-CAP,S 18P-50 CH<HD>
C453	87-010-178-080		C-CAP,S 1000P-50 B	C741	87-010-545-080		CAP,E 0.22-50 SME<HD>
C454	87-010-175-080		C-CAP,S 560P-50 SL	C742	87-010-154-080		C-CAP,S 10P-50 CH<HD>
C455	87-010-175-080		C-CAP,S 560P-50 SL	C743	87-010-404-080		CAP,E 4.7-50 SME<HD>
C456	87-010-260-080		CAP,E 47-25 SME	C744	87-010-260-080		CAP,E 47-25 SME<HD>
C457	87-010-197-080		C-CAP,S 0.01-25 B	C745	87-010-545-080		CAP,E 0.22-50 SME<HD>
C458	87-010-183-080		C-CAP,S 2700P-50 B	C746	87-010-545-080		CAP,E 0.22-50 SME<HD>
C459	87-010-183-080		C-CAP,S 2700P-50 B	C747	87-010-197-080		C-CAP,S 0.01-25 B<HD>
C460	87-010-183-080		C-CAP,S 2700P-50 B	C748	87-010-198-080		C-CAP,S 0.022-25 B<HD>
C470	87-010-196-080		C-CAP,S 0.1-25 F	C749	87-010-248-080		CAP,E 220-10 SME<HD>
C501	87-010-177-080		C-CAP,S 820P-50 SL	C753	87-010-404-080		CAP,E 4.7-50 SME<HD>
C502	87-010-177-080		C-CAP,S 820P-50 SL	C770	87-010-405-080		CAP,E 10-50 SME
C503	87-012-155-080		C-CAP,S 180P-50 CH	C771	87-010-405-080		CAP,E 10-50 SME
C504	87-012-155-080		C-CAP,S 180P-50 CH	C772	87-010-194-080		C-CAP,S 0.047-25 F
C515	87-010-545-080		CAP,E 0.22-50 SME	C773	87-010-196-080		C-CAP,S 0.1-25 F
C516	87-010-545-080		CAP,E 0.22-50 SME	C774	87-010-263-080		CAP,E 100-10 SME 5X11
C519	87-010-196-080		C-CAP,S 0.1-25 F	C775	87-010-405-080		CAP,E 10-50 SME
C521	87-010-197-080		C-CAP,S 0.01-25 B	C776	87-010-197-080		C-CAP,S 0.01-25 B
C522	87-010-318-080		C-CAP,S 47P-50 CH	C777	87-010-400-080		<1GU,HD,LH,U,C,G> CAP,E 0.47-50 SME
C523	87-010-197-080		C-CAP,S 0.01-25 B	C778	87-010-401-080		CAP,E 1-50 SME
C524	87-010-402-080		CAP,E 2.2-50 SME	C779	87-010-401-080		CAP,E 1-50 SME
C530	87-010-194-080		C-CAP,S 0.047-25 F	C780	87-010-197-080		C-CAP,S 0.01-25 B
C531	87-010-545-080		CAP,E 0.22-50 SME	C781	87-010-401-080		CAP,E 1-50 SME<HD>
C532	87-010-382-080		CAP,E 22-25 SME	C781	87-010-405-080		CAP,E 10-50 SME<EXCEPT HD>
C533	87-010-404-080		CAP,E 4.7-50 SME	C782	87-010-401-080		CAP,E 1-50 SME<HD>
C534	87-010-404-080		CAP,E 4.7-50 SME	C782	87-010-405-080		CAP,E 10-50 SME<EXCEPT HD>
C535	87-010-404-080		CAP,E 4.7-50 SME	C783	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C536	87-010-404-080		CAP,E 4.7-50 SME	C784	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C537	87-018-209-080		CAP,TC-U 0.1-50 F	C787	87-010-184-080		C-CAP,S 3300P-50 B
C538	87-010-384-080		CAP,E 100-25 SME	C788	87-010-184-080		C-CAP,S 3300P-50 B
C539	87-010-196-080		C-CAP,S 0.1-25 F <1GHE,1GHR,1GHK,1GU,HD>	C789	87-010-179-080		C-CAP,S 1200P-50 B
C540	87-010-196-080		C-CAP,S 0.1-25 F	C790	87-010-179-080		C-CAP,S 1200P-50 B
C541	87-010-196-080		C-CAP,S 0.1-25 F	C791	87-010-401-080		CAP,E 1-50 SME
C543	87-010-546-080		CAP,E 0.33-50 SME	C792	87-010-180-080		C-CAP,S 1500P-50 B
C544	87-010-546-080		CAP,E 0.33-50 SME	C793	87-010-189-080		C-CAP,S 8200P-50 B
C545	87-010-400-080		CAP,E 0.47-50 SME	C794	87-010-408-080		CAP,E 47-50 SME
C546	87-010-400-080		CAP,E 0.47-50 SME	C795	87-010-194-080		C-CAP,S 0.047-25 F
C547	87-010-426-080		C-CAP,S 0.012-25 B <EXCEPT 1GU,HD,LH,U,C,G>	C796	87-010-403-080		CAP,E 3.3-50 SME
C547	87-010-428-080		C-CAP,S 0.015-25 B<HD,G>	C797	87-010-405-080		CAP,E 10-50 SME
C547	87-010-198-080		C-CAP,S 0.022-25 B<1GU,LH,U,C>	C798	87-010-196-080		<1GU,HD,LH,U,C,G> C-CAP,S 0.1-25 F
C548	87-010-426-080		C-CAP,S 0.012-25 B <EXCEPT 1GU,HD,LH,U,G>	C814	87-010-197-080		<1GU,HD,LH,U,C,G> C-CAP,S 0.01-25 B <EXCEPT LH,U,C,G>
C548	87-010-428-080		C-CAP,S 0.015-25 B<HD,G>				
C548	87-010-198-080		C-CAP,S 0.022-25 B<1GU,LH,U>				
C549	87-018-209-080		CAP,TC-U 0.1-50 F				
C550	87-010-183-080		C-CAP,S 2700P-50 B				

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C815	87-018-134-080		CAP,TC-U 0.01-16 Y	C986	87-010-196-080		C-CAP,S 0.1-25 F<HD>
C817	87-010-197-080		C-CAP,S 0.01-25 B	C987	87-015-819-080		CHIP CAP 0.01
C818	87-010-197-080		C-CAP,S 0.01-25 B	C988	87-016-247-080		C-CAP,0.1-50F
C819	87-010-197-080		C-CAP,S 0.01-25 B	C990	87-010-197-080		C-CAP,S 0.01-25 B
C820	87-010-260-080		CAP,E 47-25 SME				<1GU,HD,LH,U,C,G>
C821	87-010-197-080		C-CAP,S 0.01-25 B	C993	87-010-197-080		C-CAP,S 0.01-25 B
C822	87-010-197-080		C-CAP,S 0.01-25 B				<EXCEPT 1GU,LH,U,C,G>
C823	87-010-197-080		C-CAP,S 0.01-25 B	C995	87-010-197-080		C-CAP,S 0.01-25 B
C824	87-018-134-080		CAP,TC-U 0.01-16 Y	C999	87-018-134-080		CAP,TC-U 0.01-16 Y
			<1GU,HD,LH,U,C,G>				<1GU,HD,LH,U,C,G>
C825	87-015-819-080		CHIP CAP 0.01	CF801	87-008-261-010		FILTER,SFE10.7MA5-A
			<1GHE,1GHR,1GHK,1GU,HD>	CF802	97-008-261-010		FILTER,SFE10.7MA5-A
C826	87-010-196-080		C-CAP,S 0.1-25 F	FFE801	85-NF5-605-010		FE PACK 2 EX<EXCEPT HD>
C827	87-010-196-080		C-CAP,S 0.1-25 F	FFE801	85-NF5-606-010		FE PACK 3 D-N<HD>
C830	87-015-819-080		CHIP CAP 0.01				
C831	87-010-197-080		C-CAP,S 0.01-25 B	J250	87-099-678-010		JACK,6.3W/S BLK
C832	87-010-197-080		C-CAP,S 0.01-25 B	J253	87-009-621-010		JACK,PIN 1P BLK
			<EXCEPT 1GU,HD,LH,U,C,G>				<EXCEPT 1GU,U,C,G>
C833	87-010-197-080		C-CAP,S 0.01-25 B	J253	87-099-475-010		JACK,PIN 3P BLK W/E<1GU,U,C,G>
			<EXCEPT 1GU,LH,U,C,G>	J254	87-033-227-010		TERMINAL,SP 4P R(Z)*<EXCEPT 1GU>
C835	87-010-197-080		C-CAP,S 0.01-25 B	J254	87-033-229-010		TERMINAL,SP 4P U<1GU>
C901	87-010-401-080		CAP,E 1-50 SME	J652	80-MT3-616-010		JACK,PIN 2P
			<1GHE,1GHR,1GHK,1GU,HD>	J801	82-NF5-621-010		ANT TERM JBT0222
C902	87-010-178-080		C-CAP,S 1000P-50 B	L403	87-007-341-010		COIL,TRAP 85K
			<1GHE,1GHR,1GHK,1GU,HD>	L404	87-007-341-010		COIL,TRAP 85K
C903	87-010-178-080		C-CAP,S 1000P-50 B				
			<1GHE,1GHR,1GHK,1GU,HD>	L451	87-007-336-010		COIL,OSC 85K BIAS
C904	87-010-184-080		C-CAP,S 3300P-50 B	L701	81-631-643-010		COIL,1 POLE MPX
			<1GHE,1GHR,1GHK,1GU,HD>	L702	81-631-643-010		COIL,1 POLE MPX
C905	87-010-177-080		C-CAP,S 820P-50 SL	L741	87-006-253-010		COIL,FM,DET N
			<1GHE,1GHR,1GHK,1GU,HD>	L742	81-631-612-010		CFMT 450A
C906	87-010-178-080		C-CAP,S 1000P-50 B				<EXCEPT 1GU,HD,LH,U,C,G>
			<1GHE,1GHR,1GHK,1GU,HD>	L742	82-NT1-659-010		FILTER,CFAZ-450 2NT
C907	87-010-185-080		C-CAP,S 3900P-50 B	L770	87-003-102-080		<1GU,LH,U,C,G>
			<1GHE,1GHR,1GHK,1GU,HD>				FILTER,PCFMT-060 2NT<HD>
C909	87-010-175-080		C-CAP,S 560P-50 SL	L832	87-003-098-080		COIL,2.2UH
			<1GHE,1GHR,1GHK,1GU,HD>	L981	81-MX4-620-010		AM PACK 3,S<1GU,HD,LH,U,C,G>
C910	87-010-176-080		C-CAP,S 680P-50 SL	R105	87-022-050-080		RES,M/F 0.22-1W
			<1GHE,1GHR,1GHK,1GU,HD>	R106	87-022-050-080		RES,M/F 0.22-1W
C911	87-010-196-080		C-CAP,S 0.1-25 F	R203	87-022-571-080		RES,M/F 0.33-2WJ<EXCEPT 1GU,U,C>
			<1GHE,1GHR,1GHK,1GU,HD>	R204	87-022-571-080		RES,M/F 0.33-2WJ<EXCEPT 1GU,U,C>
C918	87-010-186-080		C-CAP,S 4700P-50 B	RY101	87-045-372-010		RELAY,DH12D2-O(M)<C>
			<1GHE,1GHR,1GHK,1GU,HD>	RY101	87-045-361-010		RELAY,DH12D2-OS(M)-2<EXCEPT C>
C920	87-010-408-080		CAP,E 47-50 SME	RY102	87-045-382-010		RELAY,OUAZ-SH-112L
			<1GHE,1GHR,1GHK,1GU,HD>	SFR301	87-024-174-080		SFR,33K DIA6 V
C921	87-010-247-080		CAP,E 100-50 SME	SFR302	87-024-174-080		SFR,33K DIA6 V
			<1GHE,1GHR,1GHK,1GU,HD>	SFR303	87-024-174-080		SFR,33K DIA6 V
C922	87-010-196-080		C-CAP,S 0.1-25 F	SFR304	87-024-174-080		SFR,33K DIA6 V
			<1GHE,1GHR,1GHK,1GU,HD>	SFR305	87-024-175-080		SFR,47K DIA6 V
C923	87-010-154-080		C-CAP,S 10P-50 CH	SFR306	87-024-175-080		SFR,47K DIA6 V
			<1GHE,1GHR,1GHK,1GU,HD>	SFR451	87-024-175-080		SFR,47K DIA6 V
C924	87-010-154-080		C-CAP,S 10P-50 CH	SFR452	87-024-175-080		SFR,47K DIA6 V
			<1GHE,1GHR,1GHK,1GU,HD>	SFR722	87-024-170-080		SFR,3.3K DIA6 V
C925	87-018-209-080		CAP,TC-U 0.1-50 F	TC701	87-011-253-080		TRIMMER,30P LAR<EXCEPT HD>
			<1GHE,1GHR,1GHK,1GU,HD>	VR651	82-NF5-660-010		VR,50KBX2 RK14K12A
C926	87-010-196-080		C-CAP,S 0.1-25 F	W101	85-NF5-628-010		F-CABLE,7P-2.5<EXCEPT HD>
			<50HE,50HR,50HK,LH,U,C,G>	W101	83-NEK-601-010		F-CABLE,7P-2.5<HD>
C927	87-010-197-080		C-CAP,S 0.01-25 B	W102	85-NF5-617-010		CABLE,FFC 6P-1.25
			<1GHE,1GHR,1GHK,1GU,HD>	X702	87-030-283-010		VIB,CER CSA3.60MGF N<HD>
C945	87-012-154-080		C-CAP,S 150P-50 CH	X703	84-508-618-010		VIB,CER CSB 456 F15
			<1GHE,1GHR,1GHK,1GU,HD>				<EXCEPT 1GU,LH,U,C,G>
C947	87-010-401-080		CAP,E 1-50 SME	X721	87-030-163-010		VIB,XTAL 7.2MHZ(NDK)
C949	87-010-197-080		C-CAP,S 0.01-25 B	X721	87-030-278-080		<1GU,LH,U,C,G>
			<1GU,HD,LH,U,C,G>				VIB,XTAL 7.2MHZ,S
C951	87-010-401-080		CAP,E 1-50 SME				<EXCEPT 1GU,LH,U,C,G>
			<1GU,HD,LH,U,C,G>	X722	87-030-354-010		VIB,CF BFU450C
C952	87-010-311-080		C-CAP,S 12P-50 CH	X901	87-030-348-080		<EXCEPT 1GU,HD,LH,U,C,G>
			<1GU,HD,LH,U,C,G>				VIB,CER 16.0MHZ CST
C983	87-010-544-080		CAP,E 0.1-50<1GU,HD,LH,U,C,G>				<1GHE,1GHR,1GHK,1GU,HD>
C986	87-015-785-080		C-CAP,0.1-25 F<HD>				

FRONT C.B

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C201	87-015-698-040		CAP,E 4.7-50 7L	LED420	87-070-201-080		LED,SLP9118C-51-S-T1
C202	87-015-698-040		CAP,E 4.7-50 7L	LED421	87-070-201-080		LED,SLP9118C-51-S-T1
C203	87-010-408-040		CAP,E 47-50 SME	LED422	87-070-201-080		LED,SLP9118C-51-S-T1
C204	87-010-401-040		CAP,E 1-50 SME	LED423	87-070-201-080		LED,SLP9118C-51-S-T1
C205	87-010-263-040		CAP,E 100-10	LED424	87-070-278-010		LED,SLZ-738A-24-S
C206	87-010-248-040		CAP,E 220-10 SME	LED425	87-070-290-010		LED,SLZ936C-30-S
C207	87-015-695-040		CAP,E 1-50 7L	LED426	87-070-278-010		LED,SLZ-738A-24-S
C208	87-015-785-080		C-CAP,0.1-25 F	LED427	87-070-278-010		LED,SLZ-738A-24-S
C209	87-010-317-080		C-CAP,S 39P-50 CH	LED428	87-070-290-010		LED,SLZ936C-30-S
C210	87-010-313-080		C-CAP,S 18P-50 CH	LED429	87-070-278-010		LED,SLZ-738A-24-S
C211	87-010-318-080		C-CAP,S 47P-50 CH	S301	87-036-215-080		SW,TACT EVQ-21404M
C212	87-015-681-040		CAP,E 10-16 7L	S302	87-036-215-080		SW,TACT EVQ-21404M
C213	87-010-196-080		C-CAP,S 0.1-25 F	S303	87-036-215-080		SW,TACT EVQ-21404M
C214	87-010-196-080		C-CAP,S 0.1-25 F	S304	87-036-215-080		SW,TACT EVQ-21404M
C215	87-015-785-080		C-CAP,0.1-25 F	S305	87-036-215-080		SW,TACT EVQ-21404M
C250	87-010-178-080		C-CAP,S 1000P-50 B	S306	87-036-215-080		SW,TACT EVQ-21404M
C381	87-010-196-080		C-CAP,S 0.1-25 F				<1GHE,1GHR,1GHK,1GU,HD>
C382	87-010-196-080		C-CAP,S 0.1-25 F	S307	87-036-215-080		SW,TACT EVQ-21404M
C383	87-010-196-080		C-CAP,S 0.1-25 F				<1GHE,1GHR,1GHK,1GU,HD>
C384	87-010-196-080		C-CAP,S 0.1-25 F	S321	87-036-215-080		SW,TACT EVQ-21404M
C389	87-010-196-080		C-CAP,S 0.1-25 F	S322	87-036-215-080		SW,TACT EVQ-21404M
C401	87-010-196-080		C-CAP,S 0.1-25 F	S323	87-036-215-080		SW,TACT EVQ-21404M
C601	87-010-196-080		C-CAP,S 0.1-25 F	S324	87-036-215-080		SW,TACT EVQ-21404M
C602	87-010-322-080		C-CAP,S 100P-50 CH	S325	87-036-215-080		SW,TACT EVQ-21404M
C605	87-010-490-040		CAP,E 0.1-50 GAS	S326	87-036-215-080		SW,TACT EVQ-21404M
C606	87-015-676-040		CAP,E 47-6.3 7L	S327	87-036-215-080		SW,TACT EVQ-21404M
C607	87-010-319-080		C-CAP,S 56P-50 CH	S328	87-036-215-080		SW,TACT EVQ-21404M
C608	87-010-112-040		CAP,E 100-16	S329	87-036-215-080		SW,TACT EVQ-21404M
C609	87-010-196-080		C-CAP,S 0.1-25 F	S330	87-036-215-080		SW,TACT EVQ-21404M
C610	87-012-155-080		C-CAP,S 180P-50 CH	S331	87-036-215-080		SW,TACT EVQ-21404M
C611	87-010-370-040		CAP,E 330-6.3 SME	S332	87-036-215-080		SW,TACT EVQ-21404M
C613	87-010-196-080		C-CAP,S 0.1-25 F	S341	87-036-215-080		SW,TACT EVQ-21404M
C630	87-010-498-040		CAP,E 10-16 GAS	S342	87-036-215-080		SW,TACT EVQ-21404M
C640	87-010-382-040		CAP,E 22-25 SME	S343	87-036-215-080		SW,TACT EVQ-21404M
C646	87-010-196-080		C-CAP,S 0.1-25 F	S344	87-036-215-080		SW,TACT EVQ-21404M
C651	87-010-152-080		C-CAP,S 8P-50 CH	S345	87-036-215-080		SW,TACT EVQ-21404M
C652	87-010-152-080		C-CAP,S 8P-50 CH	S346	87-036-215-080		SW,TACT EVQ-21404M
C653	87-010-426-080		C-CAP,S 0.012-25 B	S347	87-036-215-080		SW,TACT EVQ-21404M
C654	87-010-178-080		C-CAP,S 1000P-50 B	VR601	82-NK7-616-010		VR,10KB RK11K1130
C657	87-010-196-080		C-CAP,S 0.1-25 F	VR602	82-NK7-615-010		VR,10KA RK11K1130
C658	87-010-263-040		CAP,E 100-10	W130	82-NF7-647-010		CABLE,FFC,13P-1.25
C659	87-010-374-040		CAP,E 47-10				<50HE,50HR,50HK,LH,U,C,G>
C660	87-010-196-080		C-CAP,S 0.1-25 F	W130	82-NF5-651-010		CABLE,FFC,14P-1.25
C661	87-010-177-080		C-CAP,S 820P-50 SL				<1GHE,1GHR,1GHK,1GU,HD>
C662	87-010-179-080		C-CAP,S 1200P-50 B	W501	85-NF5-615-010		CABLE,FFC 15P-1.25
C663	87-010-544-040		CAP,E 0.1-50 SME	X201	87-030-376-080		VIB,CER CSA5.76MG200
C664	87-012-141-080		C-CAP,S 0.22-16 F				
C665	87-010-184-080		C-CAP,S 3300P-50 B				
C666	87-010-426-080		C-CAP,S 0.012-25 B				
C669	87-010-404-040		CAP,E 4.7-50 SME				
C670	87-010-404-040		CAP,E 4.7-50 SME				
C671	87-010-182-089		C-CAP,S 2200P-50 B				
FL101	85-NF6-601-010		FL,BJ362GK				
J601	82-NF7-630-010		JACK,3.5 MO				
J621	82-NF7-630-010		JACK,3.5 MO				
L650	87-005-487-080		COIL,150UH J FLR50				
LED401	87-017-784-080		LED,SEL1550CM TP8				
LED402	87-017-784-080		LED,SEL1550CM TP8				
LED403	87-017-784-080		LED,SEL1550CM TP8				
LED404	87-017-784-080		LED,SEL1550CM TP8				
LED405	87-017-784-080		LED,SEL1550CM TP8				
LED406	87-017-784-080		LED,SEL1550CM TP8				
LED407	87-017-731-080		LED,SEL1510CM2				
LED408	87-017-731-080		LED,SEL1510CM2				
LED409	87-017-731-080		LED,SEL1510CM2				
LED410	87-017-731-080		LED,SEL1510CM2				
LED411	87-017-731-080		LED,SEL1510CM2				
LED412	87-017-731-080		LED,SEL1510CM2				
LED413	87-017-731-080		LED,SEL1510CM2				
LED414	87-017-731-080		LED,SEL1510CM2				
				C701	87-010-181-080		C-CAP,S 1800P-50 B
				C702	87-010-181-080		C-CAP,S 1800P-50 B
				C703	87-010-404-040		CAP,E 4.7-50 SME
				C704	87-010-404-040		CAP,E 4.7-50 SME
				C705	87-010-194-080		C-CAP,S 0.047-25 F
				C706	87-010-194-080		C-CAP,S 0.047-25 F
				C707	87-010-186-080		C-CAP,S 4700P-50 B
				C708	87-010-186-080		C-CAP,S 4700P-50 B
				C709	87-010-195-080		C-CAP,S 0.068-25 F
				C710	87-010-195-080		C-CAP,S 0.068-25 F
				C711	87-010-405-040		CAP,E 10-50 SME
				C712	87-010-405-040		CAP,E 10-50 SME
				C713	87-010-380-040		CAP,E 47-16 SME
				C714	87-010-370-040		CAP,E 330-6.3 SME
				C715	87-010-545-040		CAP,E 0.22-50 SME
				C716	87-010-545-040		CAP,E 0.22-50 SME
				C719	87-010-380-040		CAP,E 47-16 SME
				C721	87-010-198-080		C-CAP,S 0.022-25 B
				MVR741	85-NF6-608-010		VR,50KBX2 W/S (M)

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
KEY C.B				C959	87-010-544-089		CAP,E 0.1-50 <EXCEPT 1GU,HD,LH,U,C,G>
S349	87-036-215-080		SW,TACT EVQ-21404M	C961	87-014-051-089		CAP,PP 560P-100 J <EXCEPT 1GU,HD,LH,U,C,G>
S350	87-036-215-080		SW,TACT EVQ-21404M				
S351	87-036-215-080		SW,TACT EVQ-21404M	C962	87-014-073-089		CAP,PP 4700P-100 J <EXCEPT 1GU,HD,LH,U,C,G>
S352	87-036-215-080		SW,TACT EVQ-21404M	C963	87-010-312-089		C-CAP,S 15P-50 CH <EXCEPT 1GU,HD,LH,U,C,G>
S353	87-036-215-080		SW,TACT EVQ-21404M	C964	87-010-314-089		C-CAP,S 22P-50 CH <EXCEPT 1GU,HD,LH,U,C,G>
W301	83-NF8-613-010		F-CABLE,2P-2.0 KEY				
AC2 C.B				C965	87-010-186-089		<EXCEPT 1GU,HD,LH,U,C,G> C-CAP,S 4700P-50 B <EXCEPT 1GU,HD,LH,U,C,G>
R101	87-022-050-080		RES,M/F 0.22-1W	C966	87-010-263-089		CAP,E 100-10 <EXCEPT 1GU,HD,LH,U,C,G>
R102	87-022-050-080		RES,M/F 0.22-1W				
PT C.B				C970	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>
△	82-304-743-010		TERMINAL,1P	C971	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>
△	87-033-213-010		CLAMP,FUSE<C>	C974	87-010-196-089		C-CAP,S 0.1-25 F <EXCEPT 1GU,HD,LH,U,C,G>
△	87-033-147-010		CLAMP,FUSE<EXCEPT 1GU,U,C>				
△F101	87-035-365-010		FUSE,2A 250V T E <EXCEPT 1GU,HD,U,C>	C976	87-010-400-089		<EXCEPT 1GU,HD,LH,U,C,G> CAP,E 0.47-50 SME <EXCEPT 1GU,HD,LH,U,C,G>
△F101	87-035-414-010		FUSE,T2A 250V UL<C>	D958	87-017-568-089		VARI-CAP,SVC 342 M/L <EXCEPT 1GU,HD,LH,U,C,G>
△PT101	85-NF6-611-010		PT,5NF-6 C<C>				
△PT101	85-NF6-609-010		PT,5NF-6 HD<HD>	L951	87-006-316-019		COIL,ANT MW(SGB) <EXCEPT 1GU,HD,LH,U,C,G>
△PT101	85-NF6-604-010		PT,5NF-6 HR <1GHE,1GHK,50HE,50HK,LH,G>	L952	87-006-255-019		COIL,ANT SW1(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
△PT101	85-NF6-610-010		PT,5NF-6 HR<1GHR,50HR>	L953	87-006-256-019		COIL,ANT SW2(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
△PT101	85-NF6-606-010		PT,5NF-6 U<1GU,U>	L954	87-005-372-089		COIL,S 1MMH TAPG <EXCEPT 1GU,HD,LH,U,C,G>
△SW101	87-036-388-010		SW,SL 1-2-2<HD>	L955	87-005-372-089		COIL,S 1MMH TAPG <EXCEPT 1GU,HD,LH,U,C,G>
△SW101	87-036-387-010		SW,SL 1-2-3<EXCEPT 1GU,HD,U,C,G>	L956	87-007-326-019		COIL,OSC MW(SG) <EXCEPT 1GU,HD,LH,U,C,G>
DECK C.B				L957	87-007-327-019		COIL,OSC SW1(SG) <EXCEPT 1GU,HD,LH,U,C,G>
SFR1	87-024-581-010		SFR,3.3K DIA 6H	L958	87-007-332-019		COIL,OSC SW2(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
SOL1	82-ZM1-618-310		SOL ASSY,27	TC951	87-011-220-089		<EXCEPT 1GU,HD,LH,U,C,G> CAP,TRIMMER 20P VCT <EXCEPT 1GU,HD,LH,U,C,G>
SOL2	82-ZM1-618-310		SOL ASSY,27	TC952	87-011-221-089		TRIMMER,30P VCT51 <EXCEPT 1GU,HD,LH,U,C,G>
SW1	87-036-378-010		SW,PUSH 1-1-1 SH2	TC953	87-011-221-089		TRIMMER,30P VCT51 <EXCEPT 1GU,HD,LH,U,C,G>
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	87-036-378-010		SW,PUSH 1-1-1 SH2				
SW8	87-036-378-010		SW,PUSH 1-1-1 SH2				
RELAY-1 C.B							
W106	85-MA2-615-019		CONN ASSY 3P PH				
RELAY-2 C.B							
W105	83-NEG-608-019		CONN ASSY 8P-RPB				
S.WAVE C.B<EXCEPT 1GU,HD,LH,U,C,G>							
C951	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				
C952	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				
C953	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				
C954	87-010-263-089		<EXCEPT 1GU,HD,LH,U,C,G> CAP,E 100-10 <EXCEPT 1GU,HD,LH,U,C,G>				
C955	87-010-154-089		C-CAP,S 10P-50 CH <EXCEPT 1GU,HD,LH,U,C,G>				
C956	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				
C957	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				
C958	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>				

TRANSISTOR ILLUSTRATION



ECB

2SA933 2SC3266
2SA952 2SC3331
2SA1296 2SD655
2SA1318 KTA1266
2SC1815 KTC3198
2SC2001



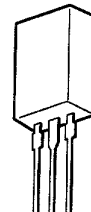
ECB

2SC1740
DTA114YS
DTA144ES



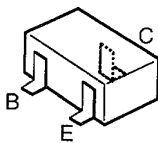
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2SK365

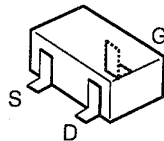


BCE

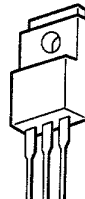
2SD2005



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2SC2712 DTA144EK
2SC2714 DTA144WK
2SC3326 DTC114EK
DTC114YK



2SK543

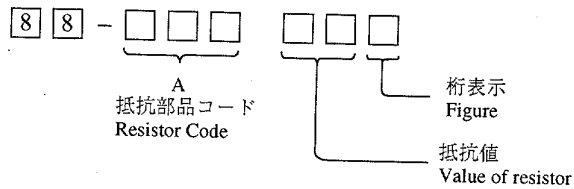


BCE

2SB1370

○ 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

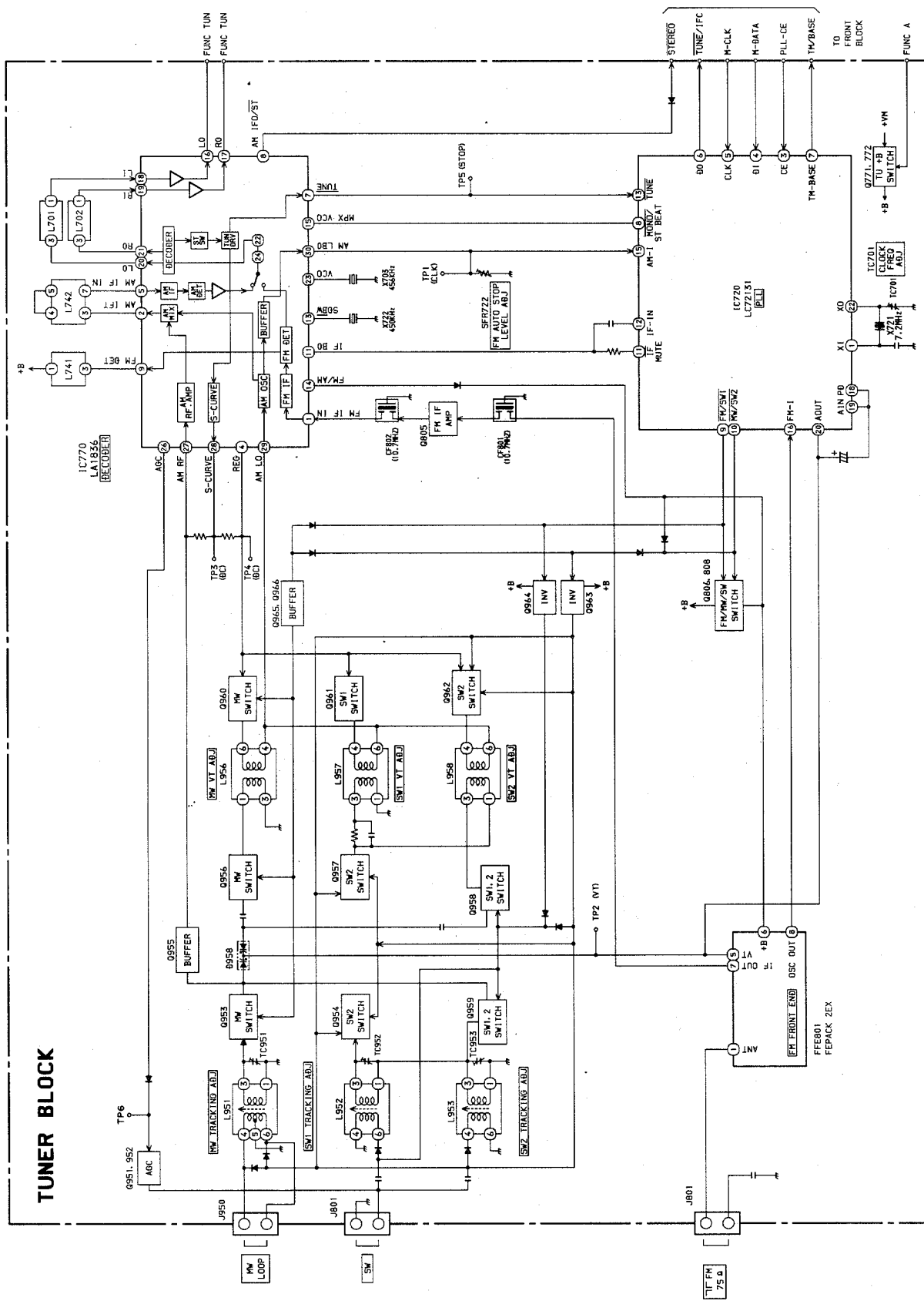


チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions / 寸法 (mm)				Resistor Code: A 抵抗コード : A
				Form / 外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

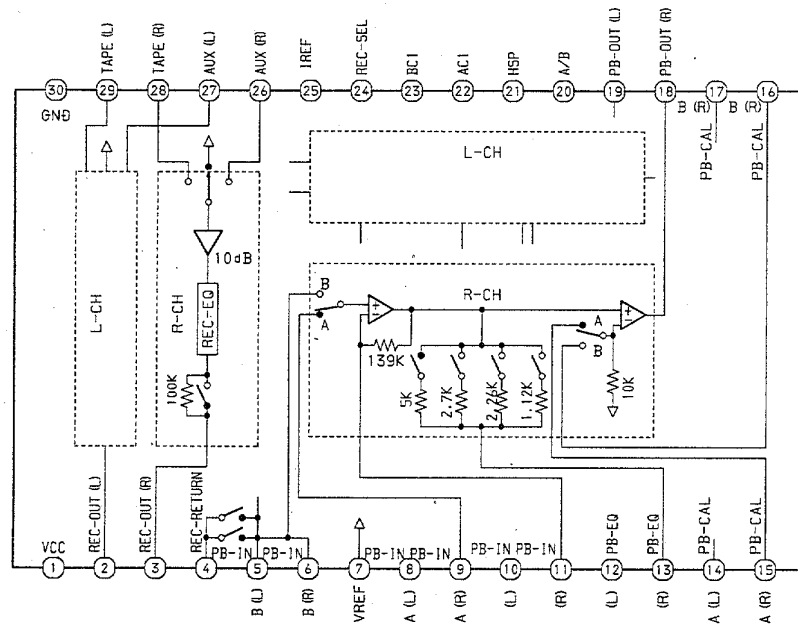
[illegible]

BLOCK DIAGRAM-2 (TUNER: HE, HR, HK)

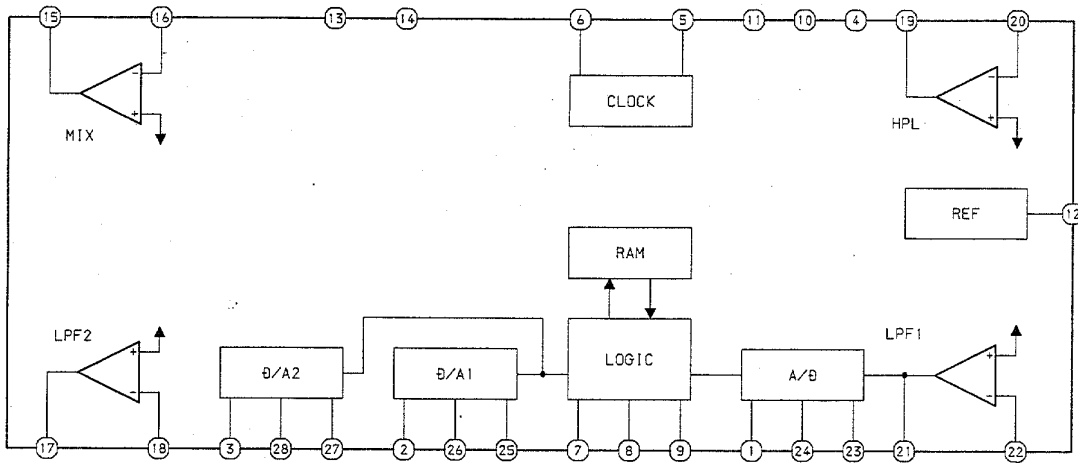


IC BLOCK DIAGRAM-1

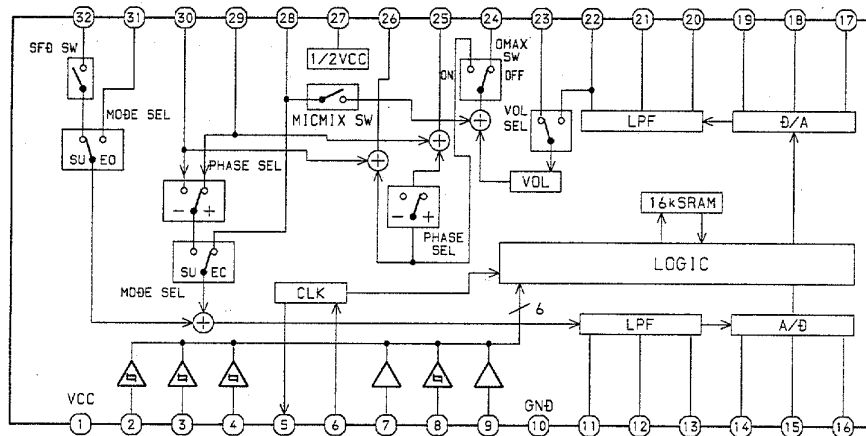
IC, HA12185NT

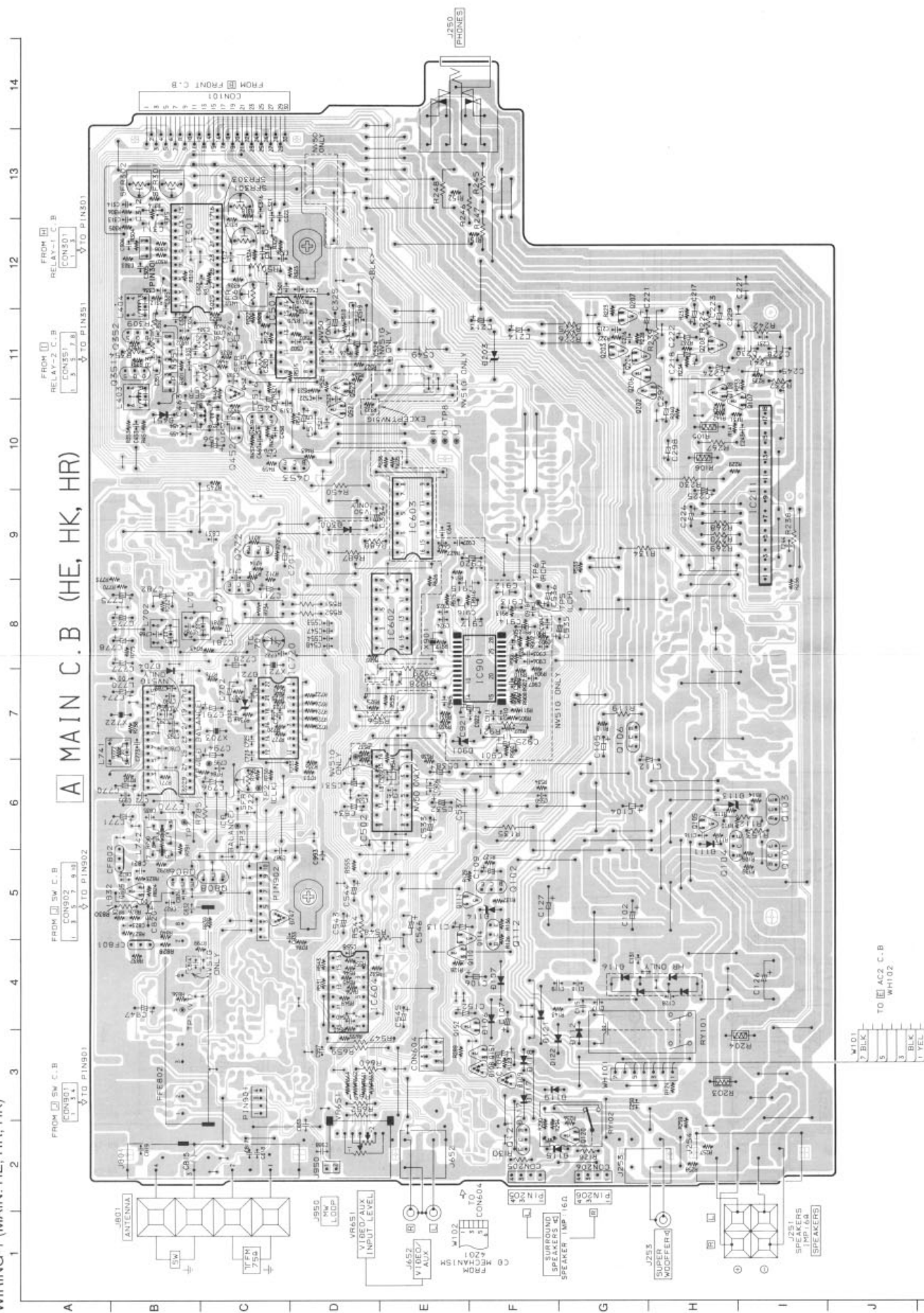


IC, M65840FP

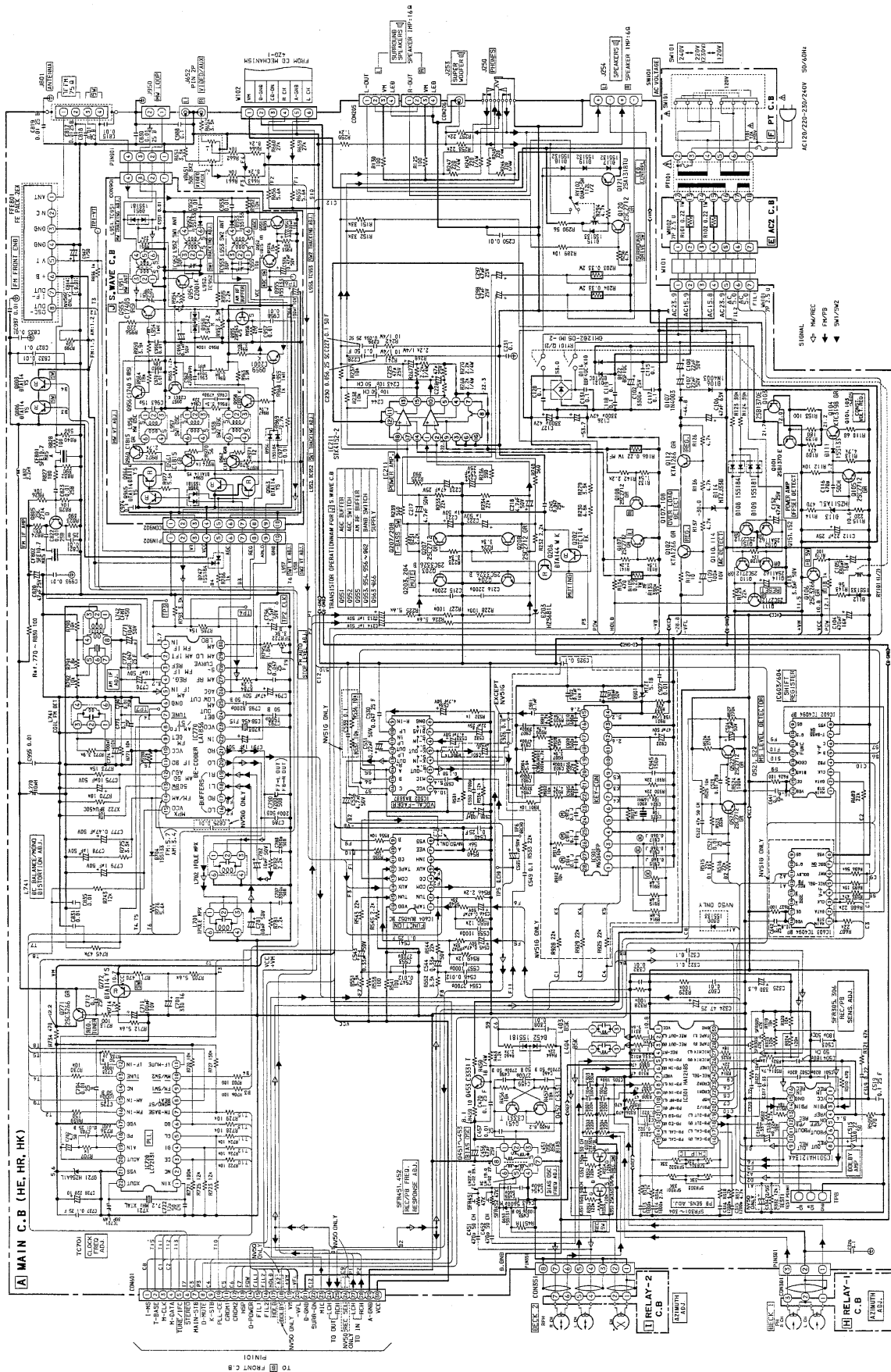


IC, M65846FP-600D

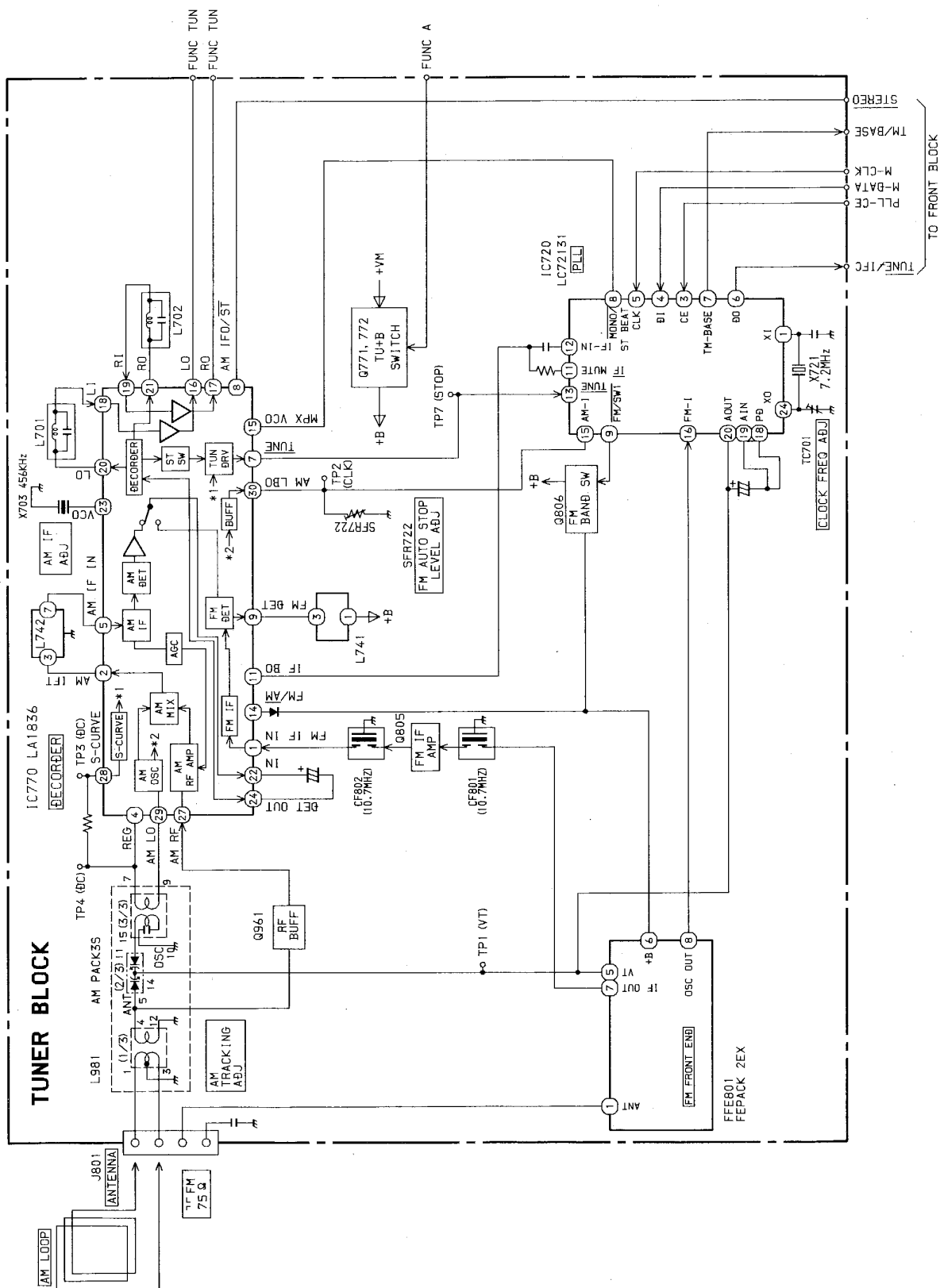




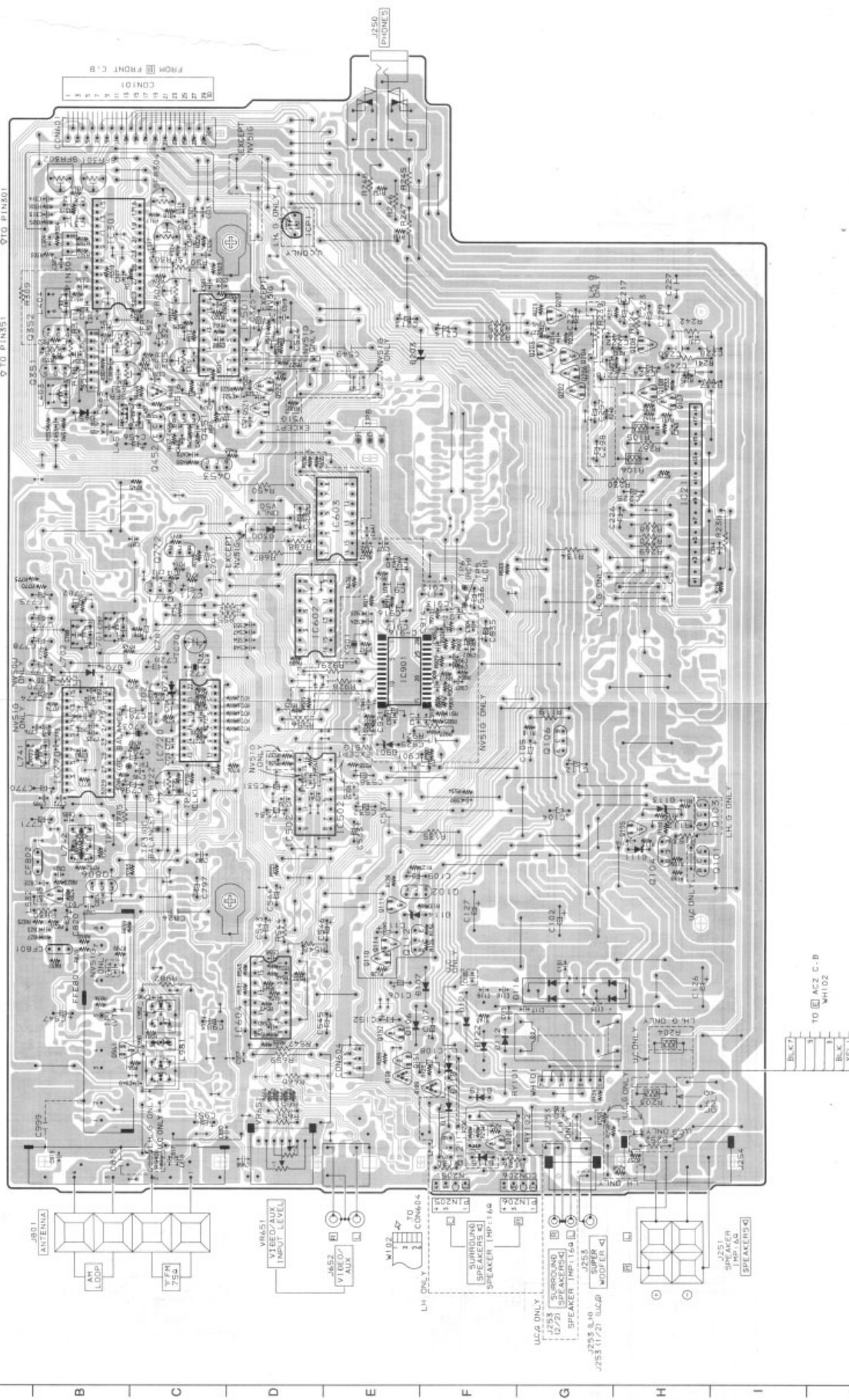
SCHEMATIC DIAGRAM-1 (MAIN: HE, HR, HK)



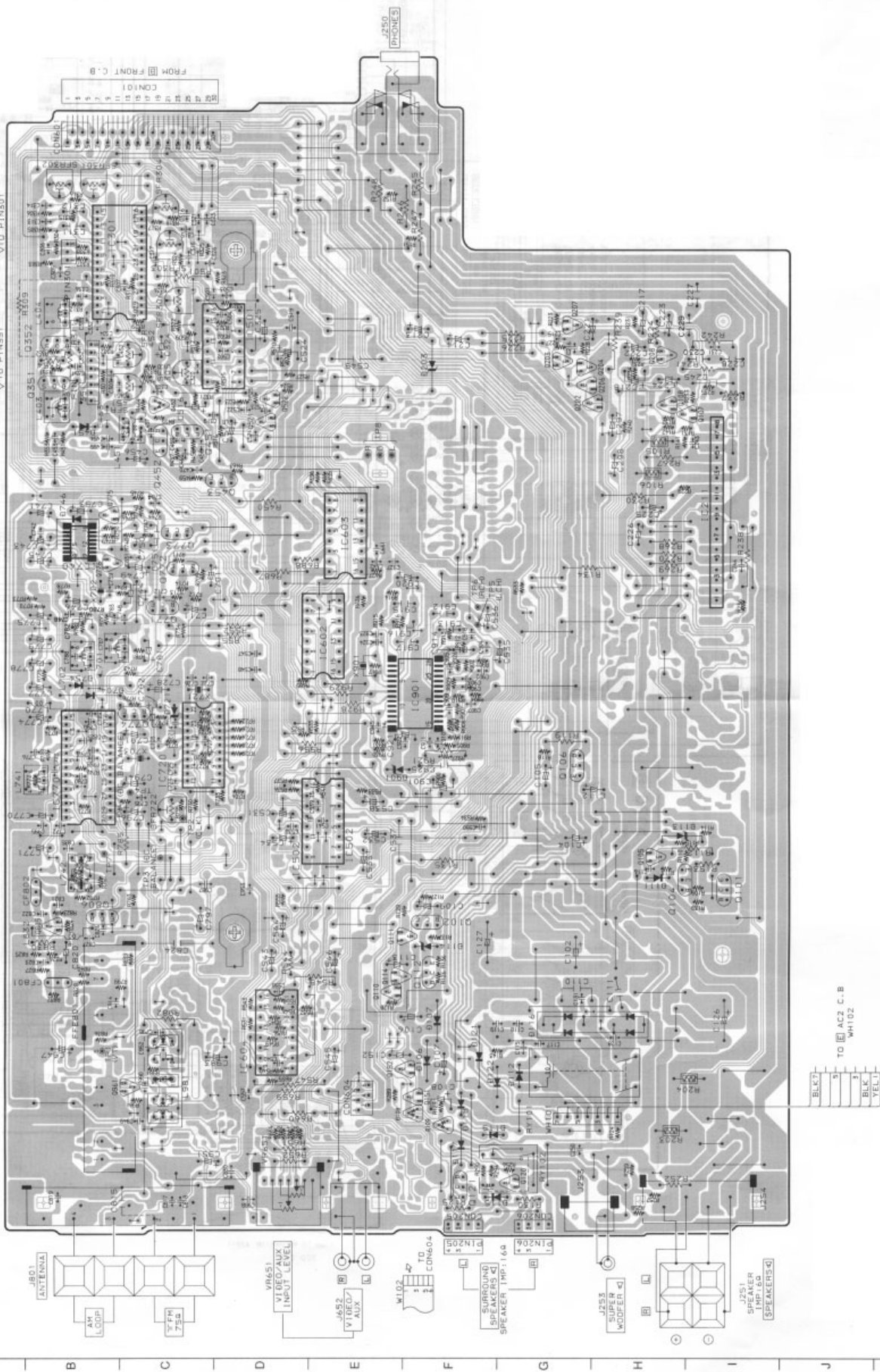
BLOCK DIAGRAM-3 (TUNER: LH, U, C, G)



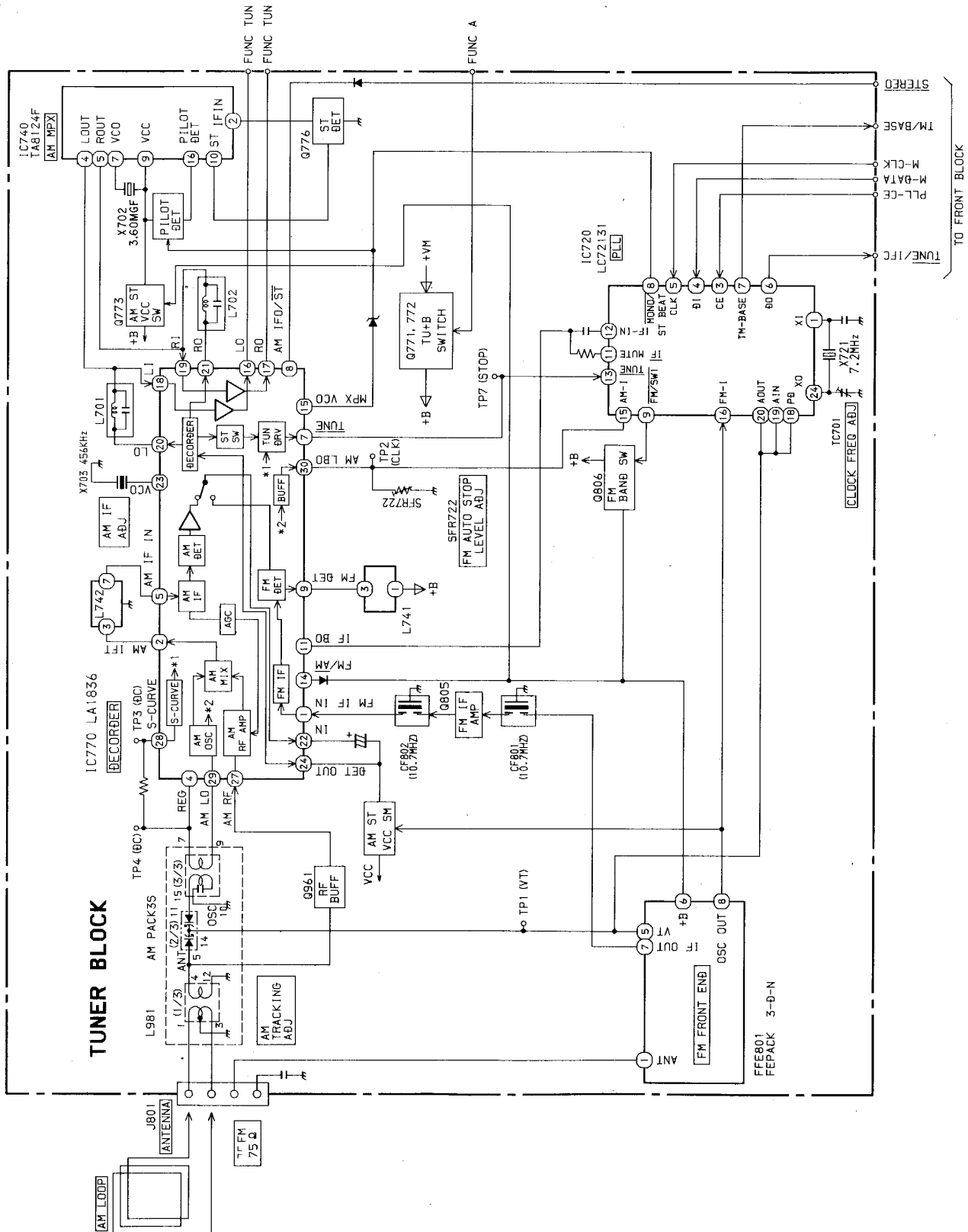
A MAIN C.B(LH, U, C, G)

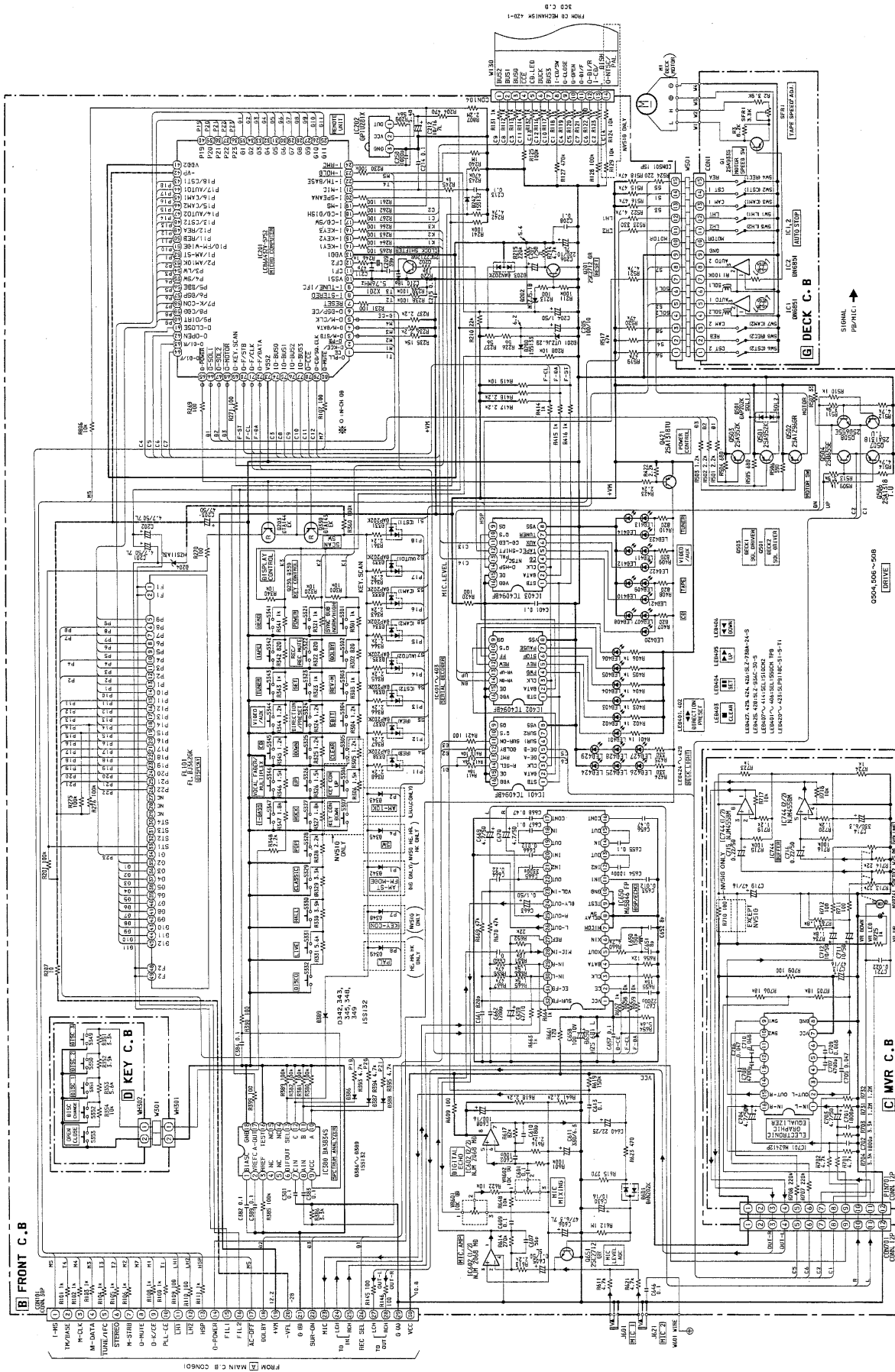


A MAIN C.B (HD)



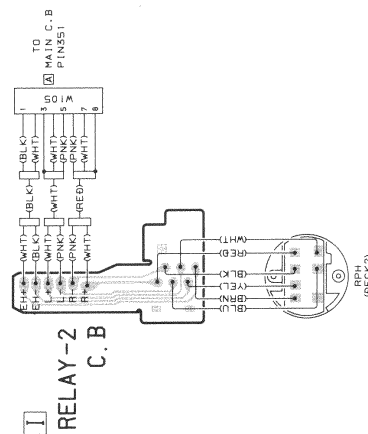
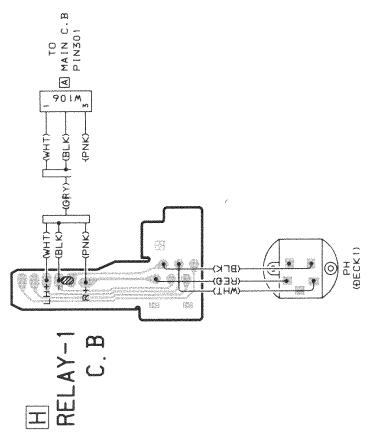
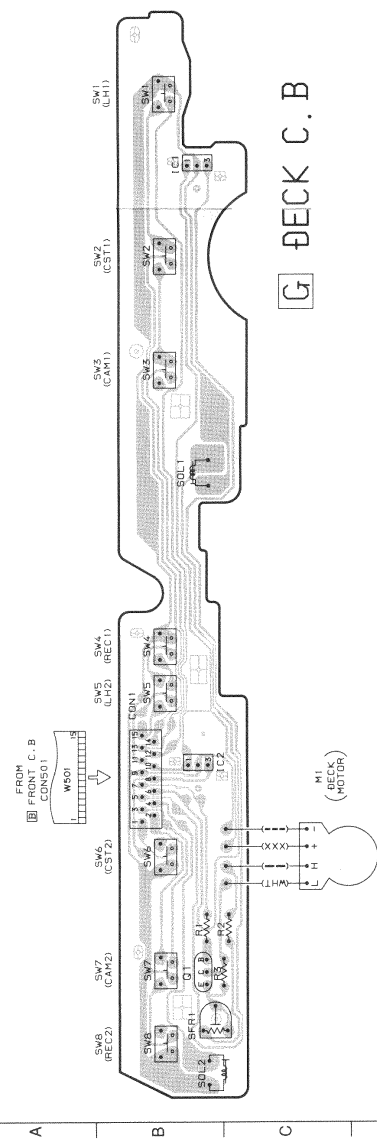
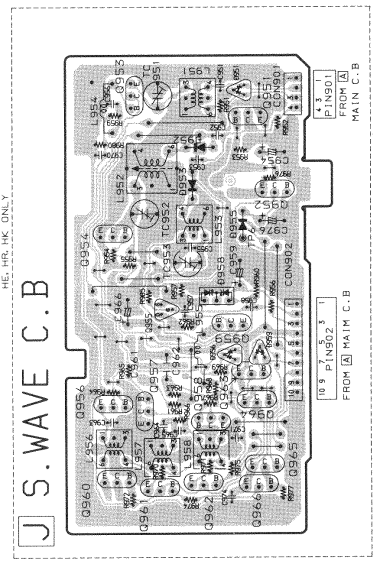
BLOCK DIAGRAM-4 (TUNER: HD)

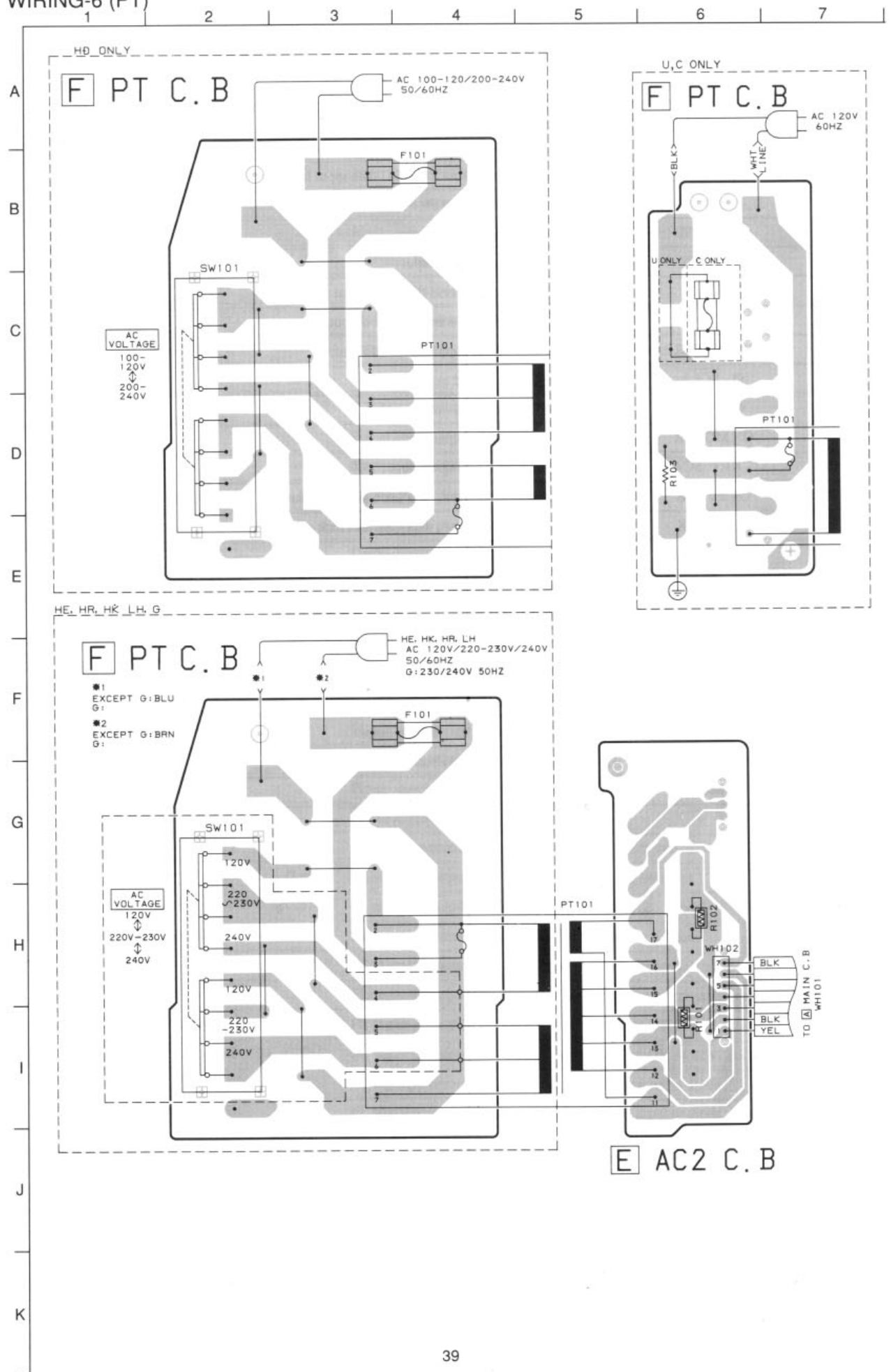






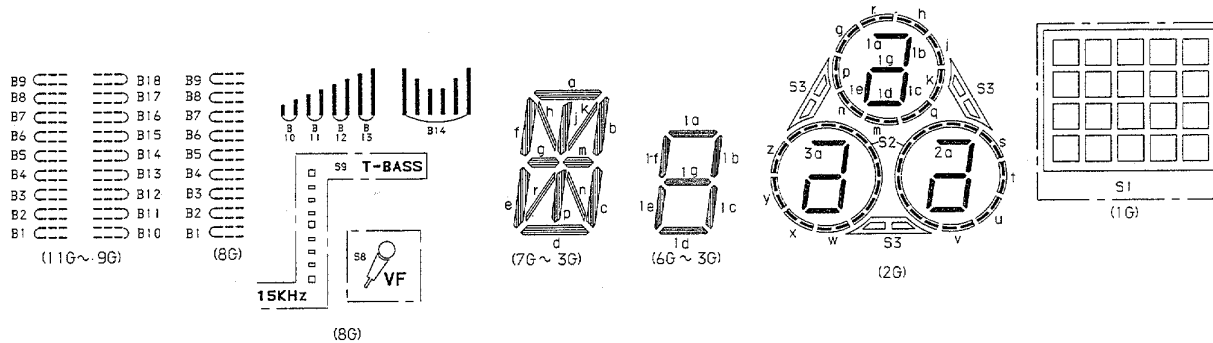
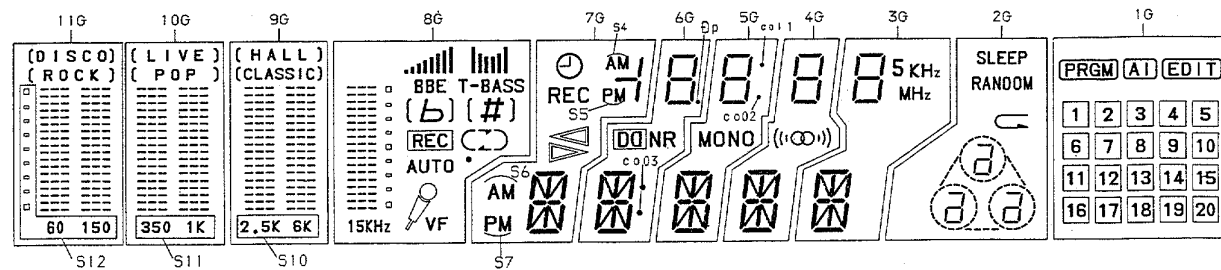
1 2 3 4 5 6 7 8 9 10 11 12 13 14





FL DISPLAY (BJ362GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	C	d	d	d	d	d	s, t, w, x	20
P2	B1	B1	B1	B1	j, p	j, p	j, p	j, p	j, p	u, v, y, z	19
P3	B11	B11	B11	S8	n	n	n	n	n	3e	18
P4	B2	B2	B2	B2	r	r	r	r	r	3c	17
P5	B12	B12	B12	C	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	O	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	AUTO	b	b	b	b	b	S3	10
P11	B6	B6	B6	B6	k	k	k	k	k	j, m, q	9
P12	B16	B16	B16	B10	h	h	h	h	h	h, l, p	8
P13	B7	B7	B7	B7	a	a	a	a	a	k, n, r	7
P14	B14	B14	B14	REC	S7	col 3	col 1	—	KHz	2b	12
P15	B17	B17	B17	B11	S6	DO NR	MONO	((((O)))	5	1a	6
P16	B8	B8	B8	B8	▷	▷p1	col 2	—	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	S5	1c	1c	1c	1c	—	2
P20	([DISCO])	([LIVE])	([HALL])	B14	—	1g	1g	1g	1g	S2	1
P21	—	—	—	([b])	/	1f	1f	1f	1f	⏏	EDIT
P22	DISCO	LIVE	HALL	b #	Ⓢ	1b	1b	1b	1b	SLEEP	AI
P23	ROCK	POP	CLASSIC	([#])	S4	1a	1a	1a	1a	RANDOM	PRGM
P24	S12	S11	S10	S9	—	—	—	—	—	—	S1
P25	—	—	—	BBE	—	—	—	—	—	—	—

IC DESCRIPTION

IC, LC866432V-5752

Pin No.	Pin Name	I/O	Description
1	O - PLL CE	O	PLL IC chip enable .
2	O - KC / CE	O	Key control IC data latched 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	O - DSPCE	O	DSP data latch strobe output .
7	RESET	I	Reset input .
8	I - STEREO	I	Tuner stereo detected input .
9	I - TUNE / IFC	I	Tuner SD detected input . IF count serial data input .
10	VSS1	-	GND .
11,12	CF1, 2	-	5.75MHz 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 - MC	I	Microphone input for auto VF display .
22	I - TM BASE	I	Reference clock input for timer watch .
23	I - HOLD	I	Power failure detected input. "L" to stop clock and maintain memory .
24	I - RMC	I	System remote control signal input .
25 ~ 35	G1 ~ G11	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 / CST1	O / I	FL segment output P18, DECK1 cassette detect switch data input .
44	P17 / AUTO1	O / I	FL segment output P17, DECK1 auto stop signal input .
45	P16 / CAM1	O / I	FL segment output P16, DECK1 cam switch data input .
46	P15 / CAM2	O / I	FL segment output P15, DECK2 cam switch data input .
47	P14 / AUTO2	O / I	FL segment output P14, DECK2 auto stop data input .
48	P13 / CST2	O / I	FL segment output P13, DECK2 cassette detect switch data input .
49	P12 / REA2	O / I	FL segment output P12, DECK2 side-A record OK switch data input .
50	P11 / REB2	O / I	FL segment output P11, DECK2 side-B record OK switch data input .
51	P10 / FM - WIDE	O / I	FL segment output P10, FM wide mode data input to diode .
52	P1 / AM - ST	O / I	FL segment output P1, AM stereo 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 .
56	P5 / BBE	O / I	FL segment output P5, BBE mode data input to diode .
57	P6 / DSP	O / I	FL segment output P6, DSP data input to diode .

Pin No.	Pin Name	I/O	Description
57	P6 / DSP	O / I	FL segment output P6, DSP data input to diode .
58	P7 / KEY- CON	O / I	FL segment output P7, key control data input to diode .
59	P8 / CDG	O / I	FL segment output P8, CDG data input to diode .
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 turntable forward rotation output.
65	O - POWER	O	System power supply $\overline{\text{ON}}$ / OFF output .
66	O - $\overline{\text{SOL1}}$	O	DECK1 solenoid output .
67	O - $\overline{\text{SOL2}}$	O	DECK2 solenoid output .
68	O - 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 - BUS0	I / O	CD IC control data bus input / output .
75	IO - BUS1	I / O	CD IC control data bus input / output .
76	IO - BUS2	I / O	CD IC control data bus input / output .
77	IO - BUS3	I / O	CD IC control data bus input / output .
78	O - $\overline{\text{CCE}}$	O	CD IC control chip enable output .
79	O - CD / $\overline{\text{SQ.CLK}}$	O	CD IC control data bus clock output .
80	O - MUTE	O	System mute output .

IC, LC72131

Pin No.	Pin Name	I/O	Description																											
1	XI	–	A crystal oscillator (7.2MHz) is connected between these pins.																											
22	XO	–																												
2	NC	–	Not used.																											
3	CE	I	To enable the IC. Active "H".																											
4	DI	I	Digital data input from CPU (LC866432V–5751) 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–5751).																											
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																											
8	MONO/ST BEAT	O	Outputs "H" when MONO/ST BEAT is switched.																											
9	$\overline{\text{FM/SW1}}$	O	Output "L" or "H" as follows: <table><tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr><tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</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>H</td><td>L</td></tr></table>	2 BAND		3 BAND			4 BAND				AM	FM	LW	MW	FM	LW	SW1	SW2	FM	H	L	H	H	L	H	L	H	L
2 BAND		3 BAND			4 BAND																									
AM	FM	LW	MW	FM	LW	SW1	SW2	FM																						
H	L	H	H	L	H	L	H	L																						
10	$\overline{\text{MW/SW2}}$	O	Outputs "L" or "H" as follows: <table><tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr><tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</th><th>FM</th></tr><tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>H</td><td>H</td><td>L</td><td>L</td></tr></table>	2 BAND		3 BAND			4 BAND				AM	FM	LW	MW	FM	LW	SW1	SW2	FM	L	L	H	L	L	H	H	L	L
2 BAND		3 BAND			4 BAND																									
AM	FM	LW	MW	FM	LW	SW1	SW2	FM																						
L	L	H	L	L	H	H	L	L																						
11	$\overline{\text{IF-MUTE}}$	O	To control internal counter.																											
12	IFIN	I	General purpose counter input.																											
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.																											
14	NC	–	Not used.																											
15	AM-I	I	Receives the AM local oscillator frequency signal.																											
16	FM-I	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	Nch MOS transistor for PLL active low pass filter.																											
20	AOUT	O																												
21	VSS	–	Ground.																											

IC, BA3834S

Pin No.	Pin Name	I/O	Description
1	BIASC	–	Decoupling capacitor for linear VREF connecting terminal.
2	VREFC	–	Decoupling capacitor for logic VREF connecting terminal.
3	RREF	–	Reference resistor for setting band pass filter for connecting terminal.
4, 5	NC	–	Not used.
6	DIFOUT	O	Differential amplifier output terminal.
7	CIN	I	Differential amplifier input terminal 2.
8	AIN	I	Differential amplifier input terminal 1.
9	VCC	–	Nominally 5V.
10	A	O	Output selection control terminals (see table – 1).
11	B		
12	C		
13	SEL		
14, 15	NC	–	Not used.
16	TEST	–	Connected to ground.
17	A-OUT	O	Multiplexer output terminal.
18	GND	–	Ground.

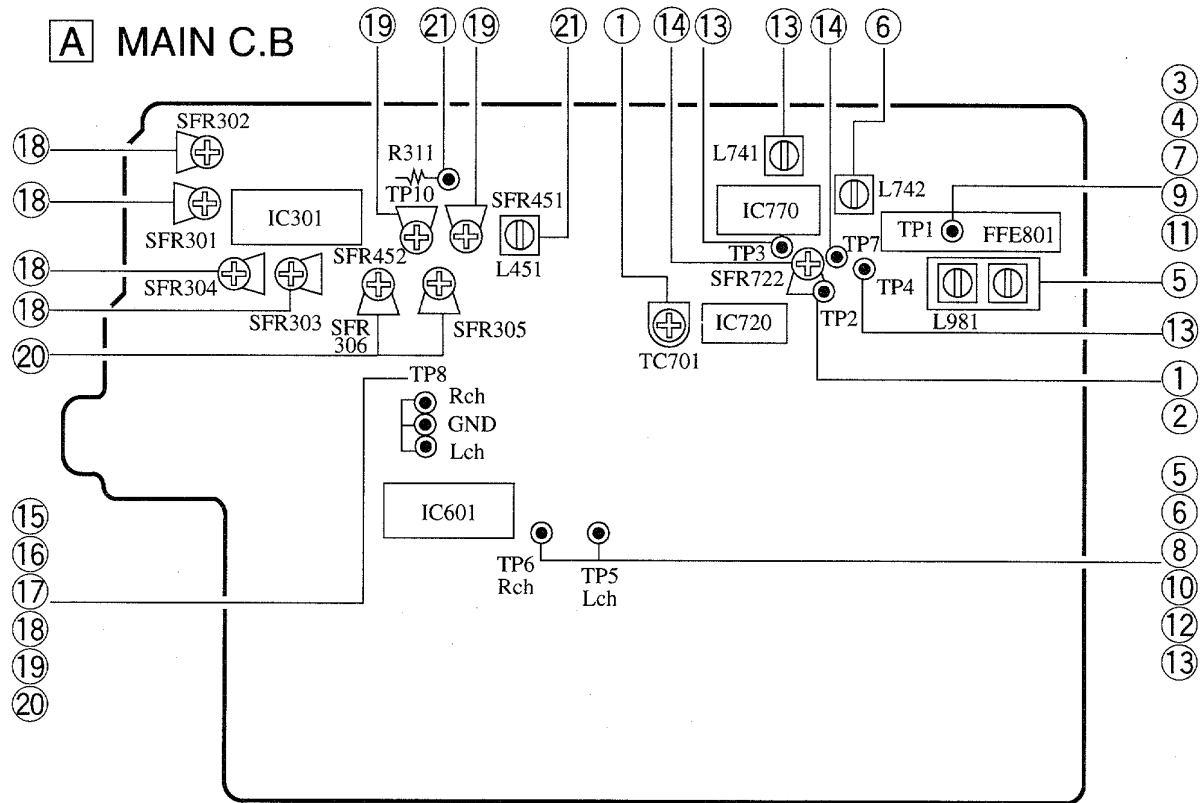
Table – 1. Filter Select Table

SEL	A	B	C	AOUT
0	X	X	X	GND
1	0	0	0	GND
1	0	0	1	68Hz
1	0	1	0	170Hz
1	0	1	1	420Hz
1	1	0	0	1kHz
1	1	0	1	2.4kHz
1	1	1	0	5.9kHz
1	1	1	1	14.4kHz

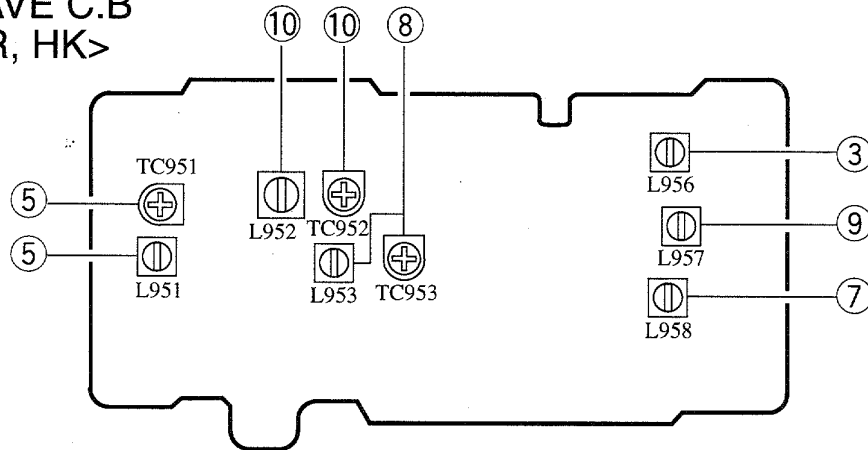
IC, M65840FP (CX-NV51G)

Pin No.	Pin Name	I/O	Description
1	ADC	–	ADM A/D adaptive control.
2	DA1C	–	ADM D/A1 adaptive control.
3	DA2C	–	ADM D/A2 adaptive control.
4	TEST1	I	L: Normal function mode, H: test mode.
5	X-I	I	16MHz Ceramic resonator.
6	X-O	O	
7	DATA	I	Clocked serial bus data input.
8	CLK	I	Clocked serial bus clock input.
9	STB	I	Clocked serial bus strobe input.
10	TEST2	O	Test output.
11	TEST3	O	Test output.
12	REF	–	Analog 1/2Vcc, connect filter capacitor.
13	GND	–	Ground.
14	VCC	–	Nominally 5V.
15	M-O	O	Mixing key controlled low frequency signal and through outputted high frequency signal.
16	M-I	I	
17	LPF2-O	O	Forms post lowpass filter with external CR for digital key control.
18	LPF2-I	I	
19	HPF-O	O	Forms highpass filter with external CR for through outputting high frequency signal.
20	HPF-I	I	
21	LPF1-O	O	Forms pre lowpass filter with external CR for digital key control.
22	LPF1-I	I	
23	ADI-I	I	Forms integrator with external C.
24	ADI-O	O	
25	DA1I-I	I	Forms integrator with external C.
26	DA1I-O	O	
27	DA2I-I	I	Forms integrator with external C.
28	DA2I-O	O	

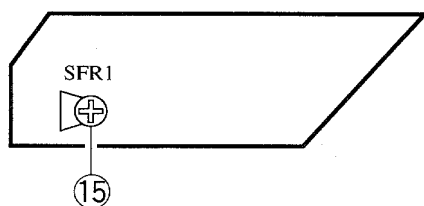
ELECTRICAL ADJUSTMENT



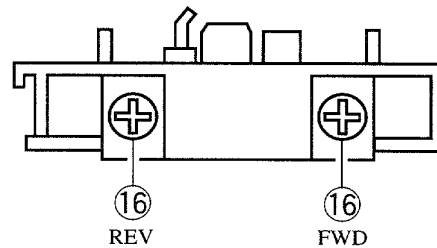
J S-WAVE C.B
<HE, HR, HK>



G DECK C.B



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



<TUNER SECTION>

1. Clock Frequency Adjustment

Settings: • Test point: TP2 (CLK IC770 pin30)
• Adjustment location: TC701

Method: Set to MW 1710kHz (HE, HR, HK, LH, U, C), 1602kHz (G) and adjust TC701 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$ (HE, HR, HK, LH, U, C), $2052\text{kHz} \pm 0.01\text{kHz}$ (G).

2. Clock Frequency check <HD>

Settings: • Test point: TP2

Method: Set to MW 1602kHz and check that the test point is $2052\text{kHz} \pm 0.04\text{kHz}$.

3. MW VT Adjustment <HE, HR, HK>

Settings: • Test point: TP1 (VT)
• Adjustment location: L956

Method: Set to MW 1710kHz and adjust L956 so that the test point becomes $8.5\text{V} \pm 0.05\text{V}$. Then set to MW 530kHz and check that the test point is more than 0.3V.

4. MW VT Check <LH, U, C, HD, G>

Settings: • Test point: TP1 (VT)

Method: Set to MW 1710kHz (LH, U, C), 1602kHz (HD, G) and check that the test point is $7.0\text{V} \pm 1.0\text{V}$ (LH, U, C), $6.8\text{V} \pm 1.0\text{V}$ (HD, G).

5. MW Tracking Adjustment

<HE, HR, HK>

Settings: • Test point: TP5, TP6
• Adjustment location:
L951 600kHz
TC951 1400kHz

Method: Set to TC951 to center before adjustment. The level at 600kHz is adjusted to MAX by L951. Then the level at 1400kHz is adjusted to MAX by TC951.

<LH, U, C, HD, G>

Settings: • Test point: TP5, TP6
• Adjustment location: L981
TC951 1400kHz

Method: Set to MW 1000kHz (LH, U, C), 999kHz (HD, G) and adjust L981 so that the test point becomes maximum.

6. AM IF Adjustment

Settings: • Test point: TP5, TP6
L742 450kHz

7. SW2 VT Adjustment <HE, HR, HK>

Settings: • Test point: TP1 (VT)
• Adjustment location: L958

Method: Set to SW2 21.85MHz and adjust L958 so that the test point becomes $8.0\text{V} \pm 0.05\text{V}$.

8. SW2 Tracking Adjustment <HE, HR, HK>

Settings: • Test point: TP5, TP6
• Adjustment location:
L953 9.5MHz
TC953 21.85MHz

Method: Set up TC953 to center before adjustment. The level at 9.5MHz is adjusted to MAX by L953. Then the level at 21.85MHz is adjusted to MAX by TC953.

9. SW1 VT Adjustment <HE, HR, HK>

Settings: • Test point: TP1 (VT)
• Adjustment location: L957

Method: Set to SW1 7.3MHz and adjust L957 so that the test point becomes $7.7\text{V} \pm 0.05\text{V}$.

10. SW1 Tracking Adjustment <HE, HR, HK>

Settings: • Test point: TP5, TP6
• Adjustment location:
L952 3.2MHz
TC952 7.3MHz

Method: Set up TC952 to center before adjustment. The level at 3.2MHz is adjusted to MAX by L952. Then the level at 7.3MHz is adjusted by TC952.

11. FM VT Check

<EXCEPT HD>

Settings: • Test point: TP1 (VT)

Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.0V (87.5MHz) and less than 8.0V (108.0MHz).

<HD>

Settings: • Test point: TP1 (VT)

Method: Set to FM 76MHz, 108.0MHz and check that the test point is more than 0.9V (76MHz) and less than 8.7V (108.0MHz).

12. FM Tracking Check

<EXCEPT HD>

Settings: • Test point: TP5, TP6
• Input level: 10dB

Method: Set to FM 98.0MHz and check that the test point is $2 \pm 6\text{dB}$.

<HD>

Settings: • Test point: TP5, TP6

Method: Set to FM 83.0MHz and check that the test point is $2 \pm 6\text{dB}$.

13. DC Balance/Mono Distortion Adjustment

Settings: • Test point: TP3, TP4 (DC balance)
TP5, TP6 (Distortion)
• Adjustment location: L741
• Input level: 54dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$.
Next, check that the distortion is less than 1.3%.

14. Auto Stop Level Adjustment

<EXCEPT HD>

Settings: • Test point: TP7
• Adjustment location: SFR722
• Input level: 16dB

Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

<HD>

Settings: • Test point: TP7
• Adjustment location: SFR722
• Input level: 16dB

Method: Set to FM 83.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

<DECK SECTION>

15. Tape Speed Adjustment

- Settings:
- Test tape: TTA-100 (DECK2)
 - Test point: TP8, TP9
 - Adjustment location: SFR1

Method: Play back the test tape by DECK2 and adjust SFR1 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.

16. Azimuth Adjustment (DECK1, DECK2)

- Settings:
- Test tape: TTA-310
 - Test point: TP8
 - 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.

17. PB Frequency Response Check (DECK1, DECK2)

- Settings:
- Test tape: TTA-300
 - Test point: TP8

Method: Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is $\pm 2\text{dB}$.

18. PB Sensitivity Adjustment

- Settings:
- Test tape: TTA-200
 - Test point: TP8
 - Adjustment location: SFR301 (DECK1, Lch)
SFR302 (DECK1, Rch)
SFR303 (DECK2, Lch)
SFR304 (DECK2, Rch)

Method: Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

19. REC/PB Frequency Response Adjustment

- Settings:
- Test tape: TTA-602
 - Test point: TP8
 - 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 becomes 21mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

20. REC/PB Sensitivity Adjustment

- Settings:
- Test tape: TTA-602
 - Test point: TP8
 - 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 becomes 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is $21\text{mV} \pm 0.5\text{dB}$.

21. 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>

<EXCEPT HD>

IHF Sensitivity:	3dB±6dB
(THD 3%)	(87.5/98.0/108.0MHz)
S/N 50dB Quieting sensitivity:	31dB±5dB
	(87.5/98.0/108.0MHz)
Signal to noise ratio:	More than 64dB
	(98.0MHz)
Distortion:	Less than 1.2% (98.0MHz)
Stereo separation:	More than 25dB (98.0MHz)
Intermediate frequency:	10.7MHz

<HD>

IHF Sensitivity:	3dB±6dB
(THD 3%)	(76.0/83.0/90.0MHz)
S/N 50dB Quieting sensitivity:	31dB±5dB
	(76.0/83.0/90.0MHz)
Signal to noise ratio:	More than 64dB
	(83.0MHz)
Distortion:	Less than 1.2% (83.0MHz)
Stereo separation:	More than 25dB (83.0MHz)
Intermediate frequency:	10.7MHz

<AM (MW) SECTION>

Sensitivity:	48~ 62dB
(S/N 20dB)	[at 600kHz (LH, U, C)]
	[at 603kHz (HE, HR, HK, HD, G)]
	47~ 59dB
	[at 1000/1400kHz (LH, U, C)]
	[at 999/1404kHz (HE, HR, HK, HD, G)]
Distortion:	Less than 1.5%
	[at 1000kHz (LH, U, C)]
	[at 999kHz (HE, HR, HK, HD, G)]
Intermediate frequency:	450kHz
<HD>	
Stereo separation:	More than 12dB
	(999kHz)

<SW1 SECTION> (HE, HR, HK)

Sensitivity:	29~ 37dB (3.2MHz)
(S/N 20dB)	26~ 34dB (5.0MHz)
	24~ 32dB (7.3MHz)
Distortion:	Less than 1.5% (5.0MHz)
Intermediate frequency:	450kHz

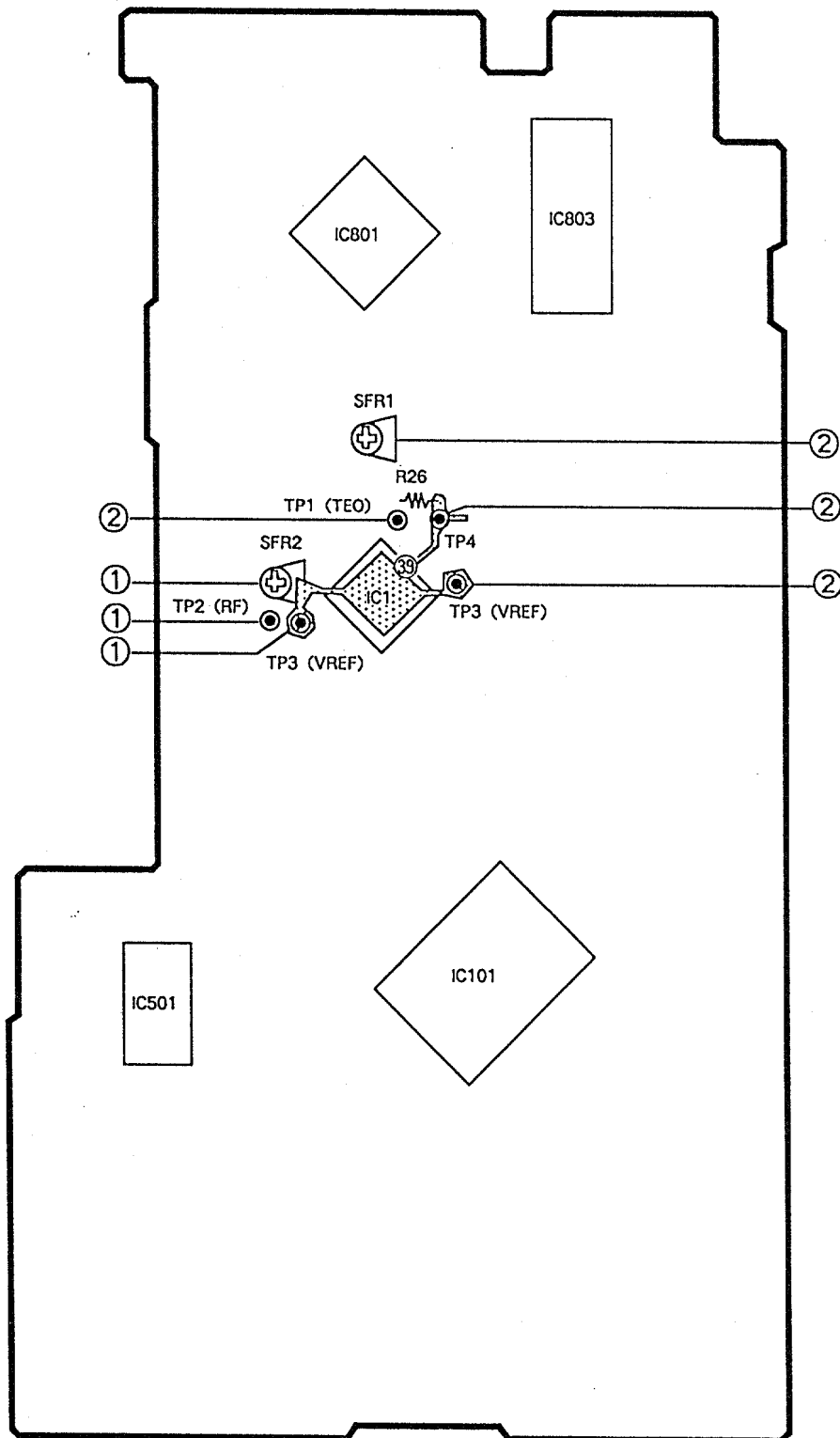
<SW2 SECTION> (HE, HR, HK)

Sensitivity:	45dB±5dB (9.5MHz)
(S/N 20dB)	40dB±5dB (15.0MHz)
	34dB±5dB (21.85MHz)
Distortion:	Less than 1.5% (15.0MHz)
Intermediate frequency:	450kHz

<DECK SECTION>

Tape speed:	3000Hz±45Hz
Wow & flutter:	Less than 0.4%
(W.R.M.S)	
Take-up torque:	40~ 45g-cm (FWD, REV)
F.F torque:	75~ 180g-cm
REW torque:	75~ 180g-cm
Back tension:	2~ 7.0g-cm
PB Output level:	(DECK1, 2)
	2.8V±1.5dB (SP OUT)
REC/PB Output level:	1.5±2.0dB (SP OUT)
Distortion (REC/PB):	Less than 2% (NORM, CrO2)
Noise level (REC/PB):	Less than 8mV/15mV
	(DOLBY B NR ON/OFF
	NORM, SP OUT, Vol 2V)
	Less than 7mV/12mV
	(DOLBY B NR ON/OFF
	CrO2, SP OUT, Vol 2V)
Crosstalk:	More than 60dB
	(1kHz, 0VU)
Erasing ratio:	More than 60dB (125Hz)
Channel separation:	More than 40dB
	(1kHz, 0VU)
REC bias frequency:	85kHz
Test tape:	NORMAL TTA-601/600
	CrO2 TTA-610
	METAL TTA-630

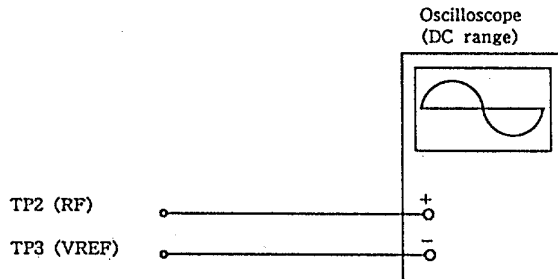
A 3CD C.B



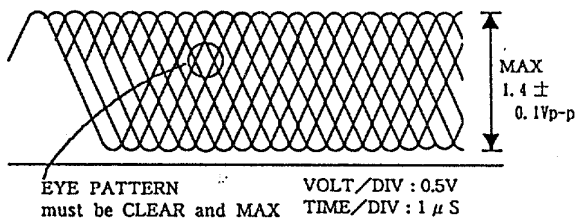
Note: Connect a probe (10:1) of the osilloscope to a test point.

1. Focus Bias Adjustment

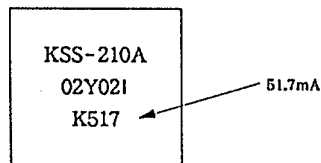
Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test points TP2 (RF) and TP3 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR2 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.

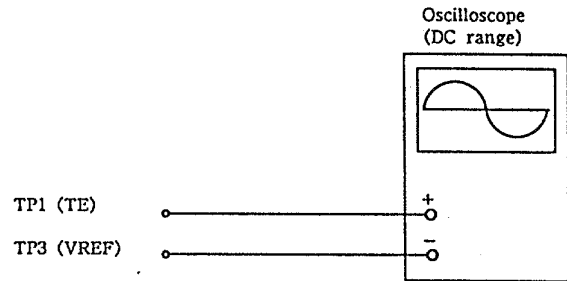


Note: The current of the laser signal can be checked with the voltages on both sides of R2 (10 Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

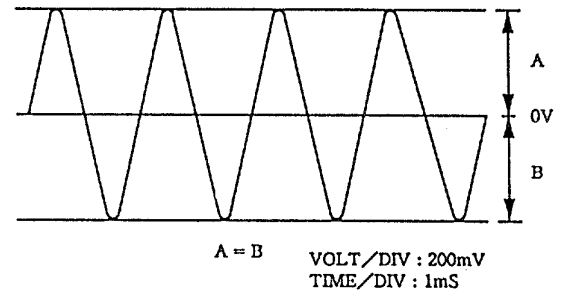


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R2}}{10 \Omega}$$

2. TRACKING Balance Adjustment

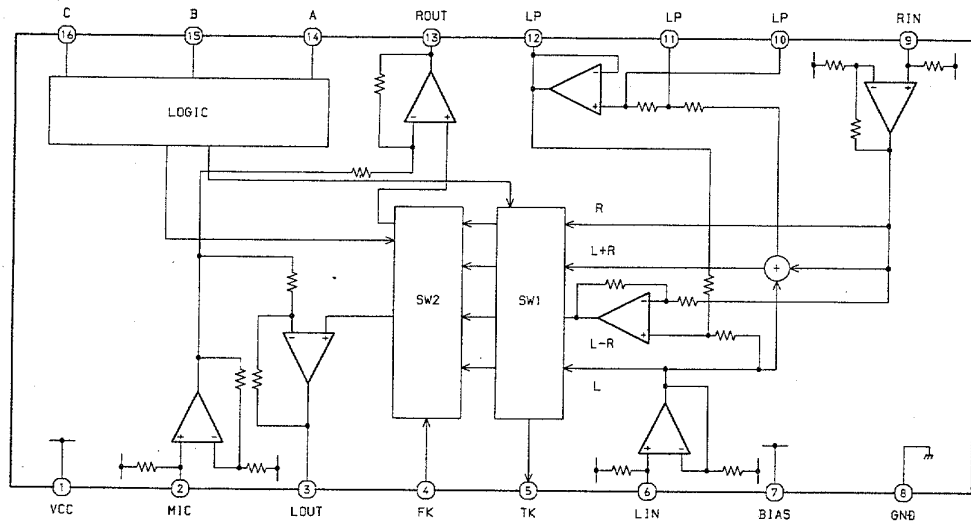


- 1) Short circuit between TP3 (VREF) and TP4.
- 2) Connect an oscilloscope to the test points TP1 (TE) and TP3 (VREF).
- 3) Turn on the power switch.
- 4) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 5) Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 6) After the adjustment is completed, remove the connected lead wires from the test point TP3 (VREF) and TP4.

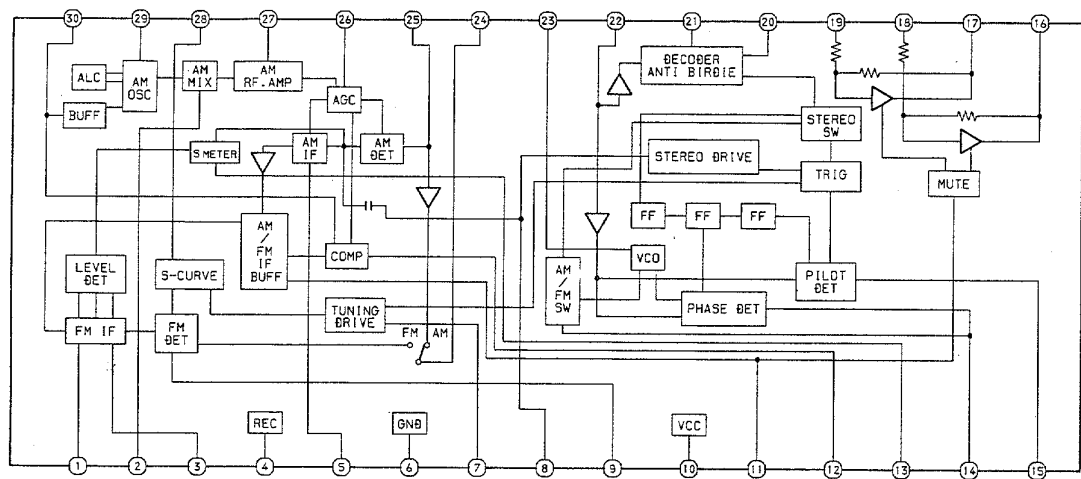


IC BLOCK DIAGRAM-2

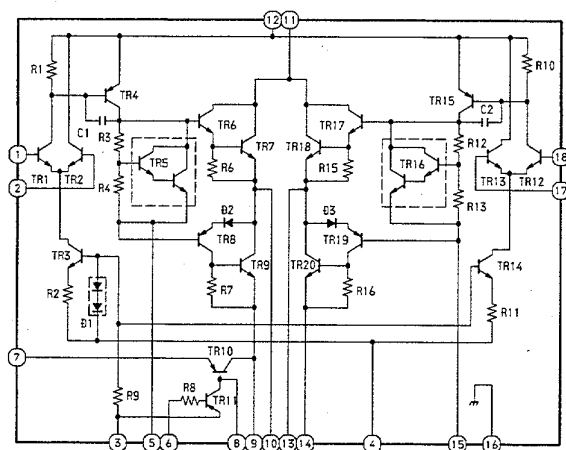
IC, BA3837



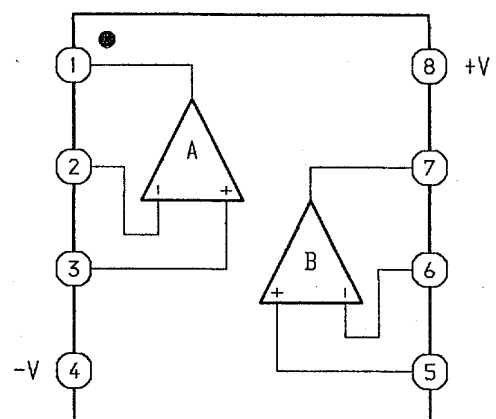
IC, LA1836



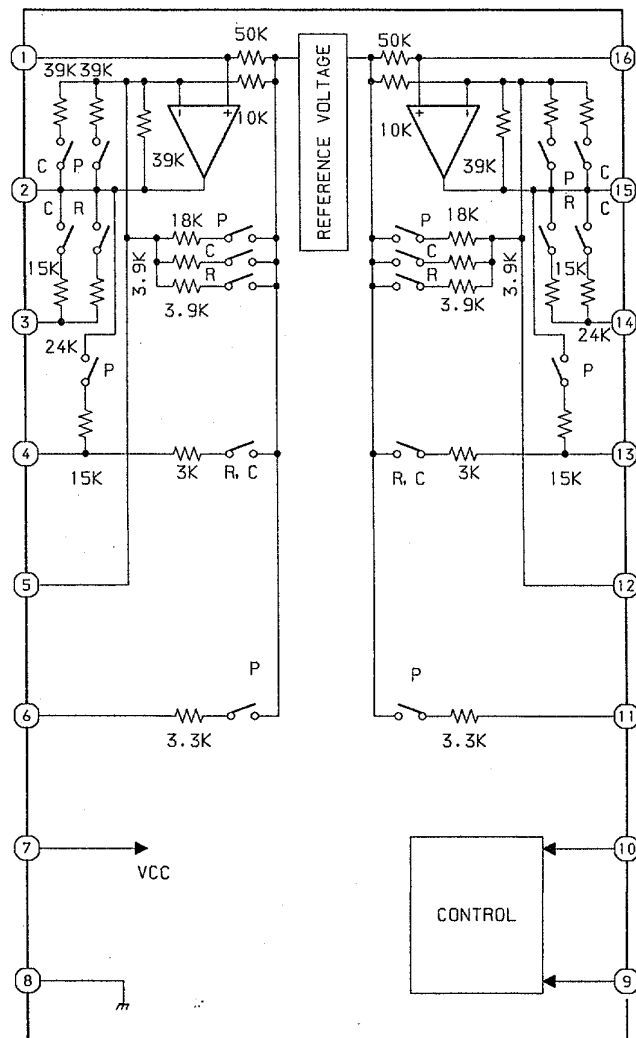
IC, STK41522



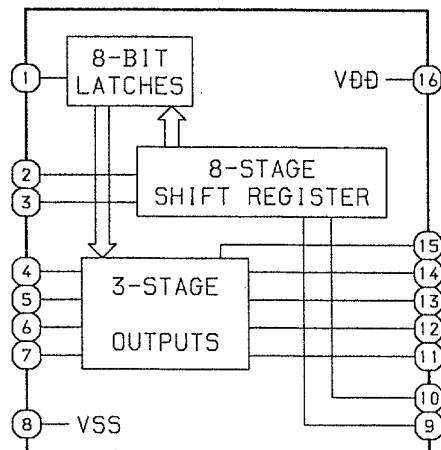
IC, NJM4558M



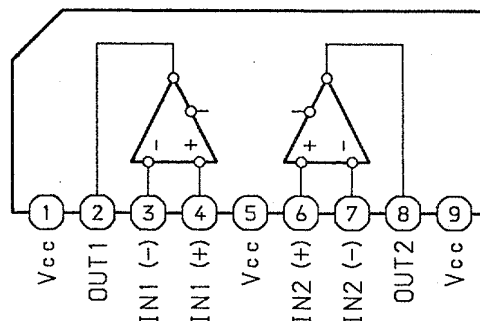
IC, M62412P



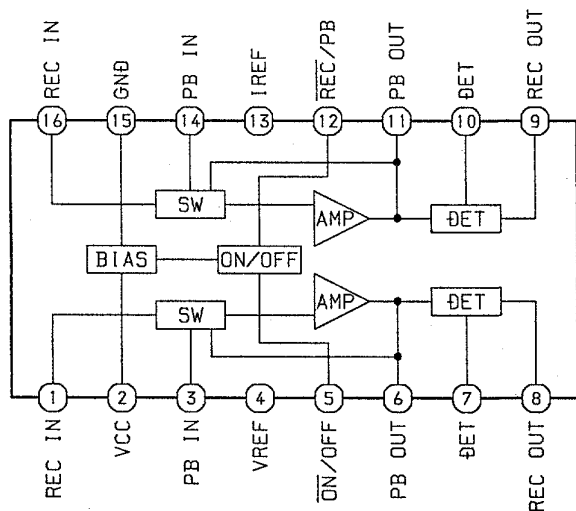
IC, TC4094BP



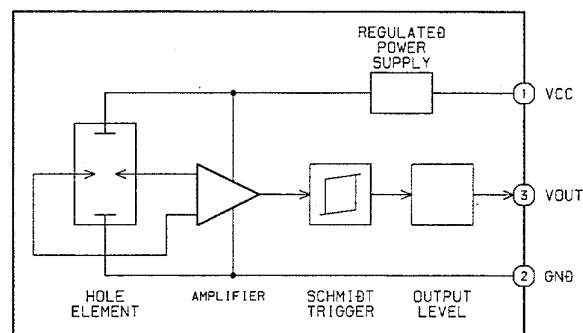
IC, NJM2068M-D (T1)



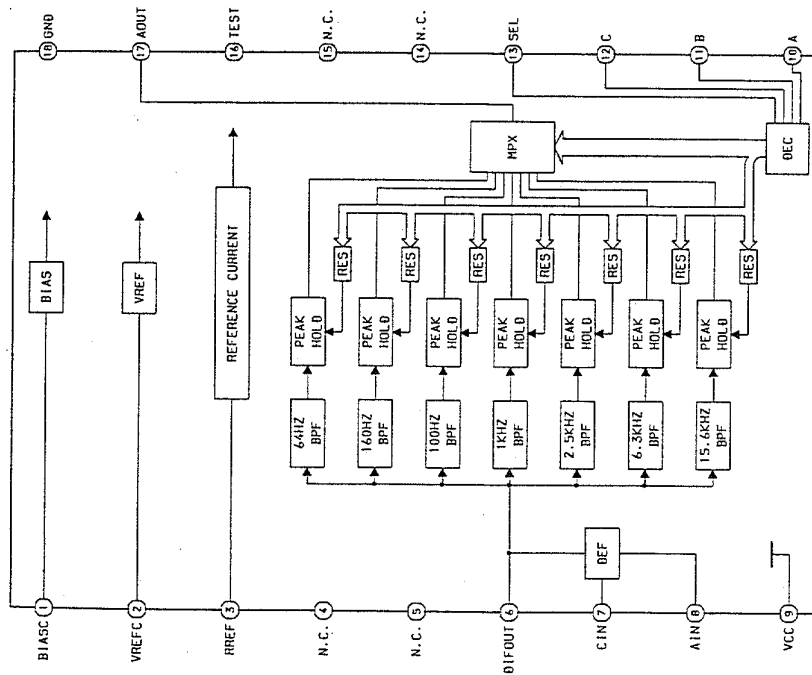
IC, HA12134A



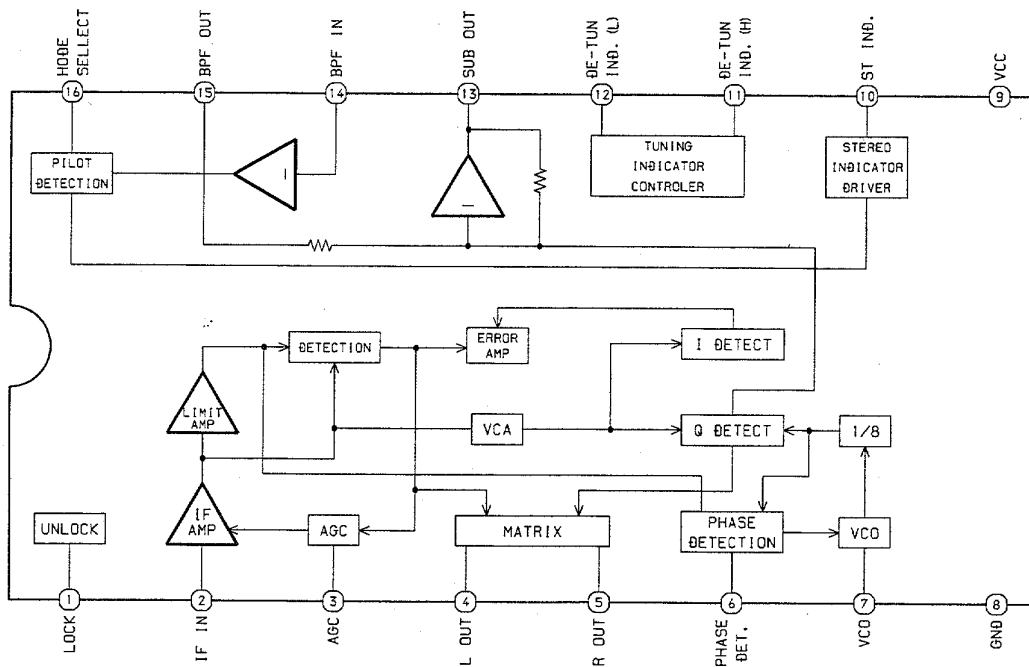
IC, DN6851



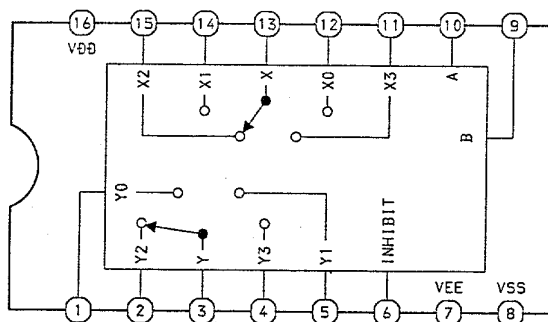
IC, BA3834S



IC, TA8124F



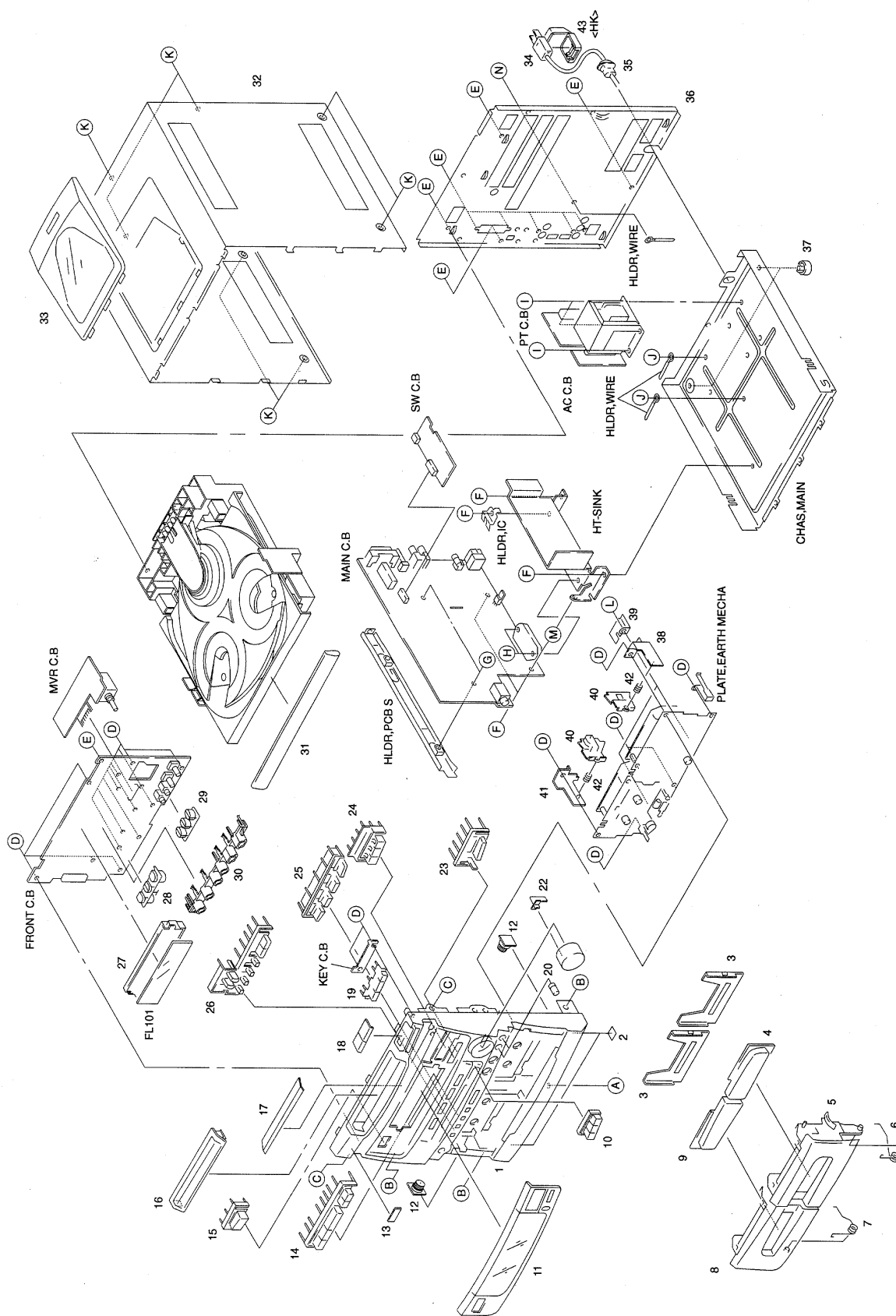
IC, BU4052BCP



TRUTH TABLE

CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
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
X: IRRELEVANT

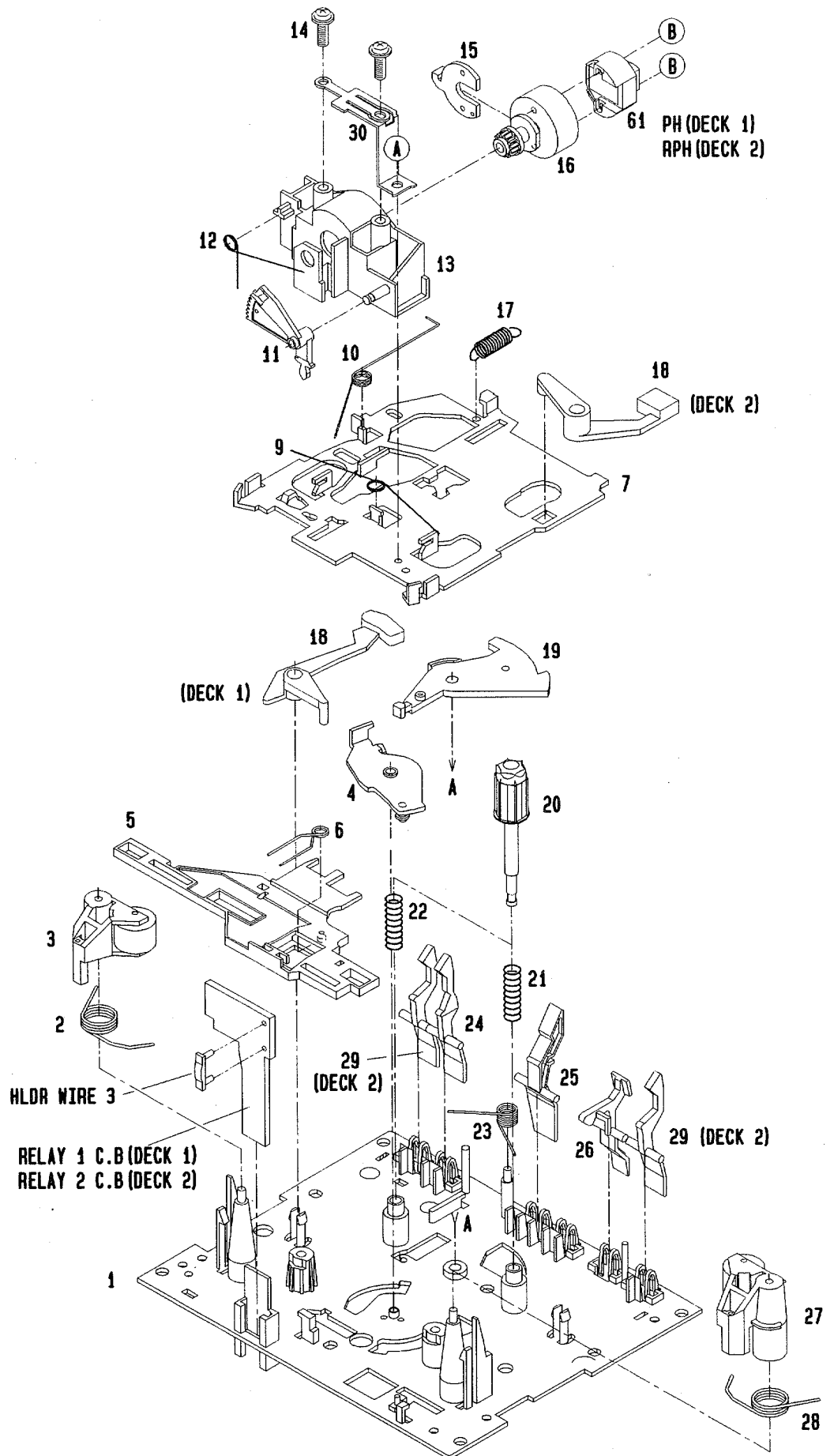


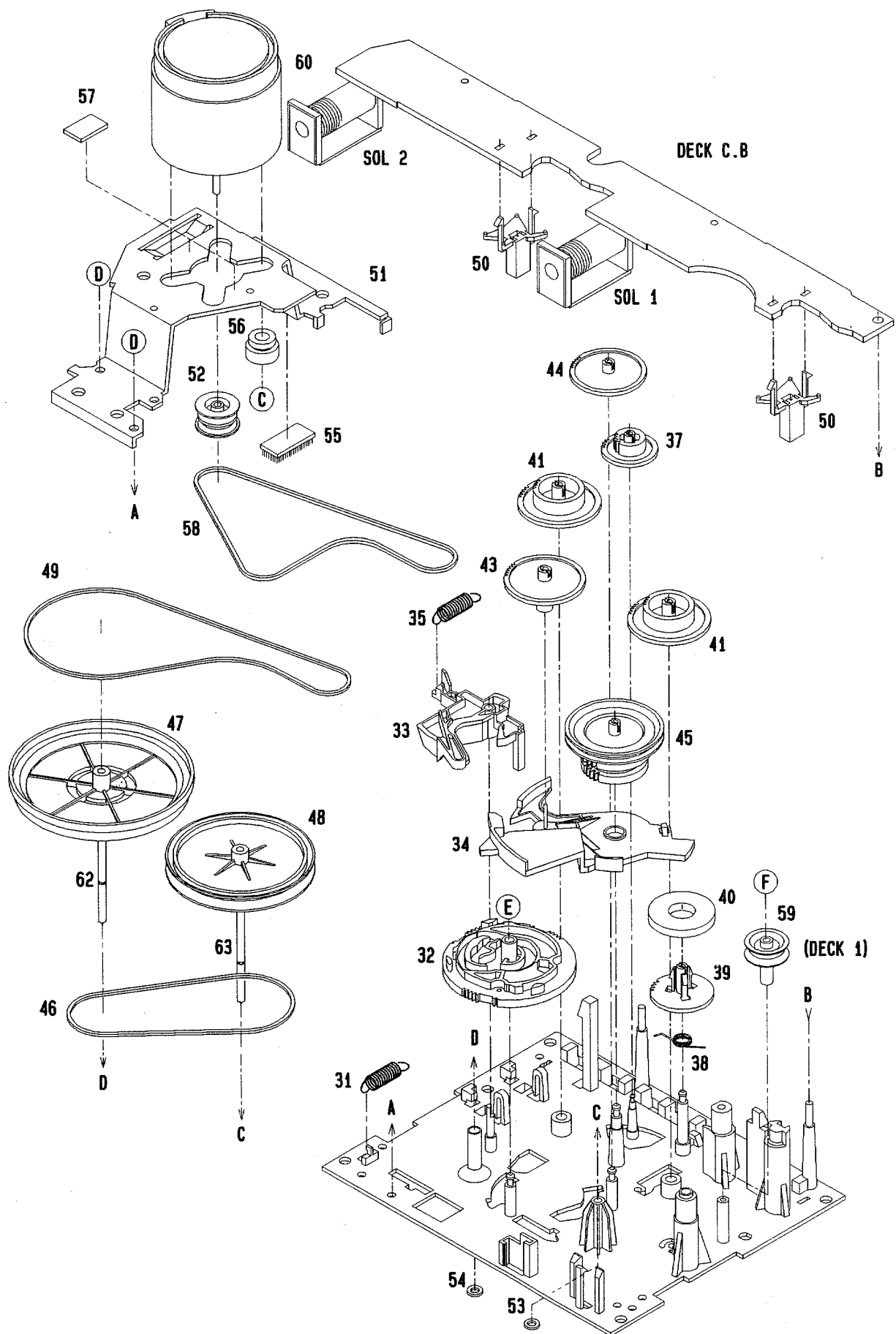
MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	85-NF6-001-010		CAB,FR<50HE,50HR,50LH,50HK>	30	85-NF6-201-010		GUIDE,LED
1	85-NF6-004-010		CAB,FR<50U>	31	85-NF6-008-010		PANEL,TRAY<50HE,50HR,50LH,50HK>
1	85-NF6-065-019		CAB,FR<50G,50C>	31	85-NF6-066-019		PANEL,TRAY<50U,50G,52U,50C>
1	85-NF6-063-019		CAB,FR<52U>	31	85-NF6-077-019		PANEL,TRAY<54U>
1	85-NF6-068-019		CAB,FR<54U>	31	85-NEG-005-019		PANEL,TRAY<51GHK,51GHE,51GHD
							51GHR>
1	85-NFG-001-019		CAB,FR<51GHK,51GHE,51GHD,51GHR>	31	85-NEG-006-019		PANEL,TRAY<51GU>
1	85-NFG-004-019		CAB,FR<51GU>	32	85-NF5-007-010		CAB,STEEL<EXCEPT 54U,51GHD>
2	80-VTL-202-010		FELT,12.5-15.5-2	32	85-NF6-067-019		CAB,STEEL<54U>
3	85-NF5-026-010		IND,CASS	32	85-NF5-008-010		CAB,STEEL<51GHD>
4	85-NF6-012-010		WINDOW,CASS R<EXCEPT 54U>				
4	85-NF6-085-019		WINDOW,CASS R<54U>	33	85-NF5-031-010		WINDOW,TOP<EXCEPT 51GU>
5	85-NF6-006-010		BOX,CASS R<EXCEPT 50U,50G,52U	33	85-NFF-018-019		WINDOW,TOP<51GU>
			54U,51GU,50C>	34	87-050-079-010		AC CORD ASSY<50HE,50HR,50LH
5	85-NF6-036-010		BOX,CASS R<50U,50G,52U,51GU,50C>				50HK,51GHK,51GHE,51GHR>
5	85-NF6-072-019		BOX,CASS R<54U>	34	87-050-097-010		AC CORD ASSY<51GHD>
6	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	34	87-050-053-010		AC CORD ASSY<50U,52U,54U,51GU
7	82-NF5-218-010		SRT-T,EJECT 1 (SIN)				50C>
8	85-NF6-005-010		BOX,CASS L<EXCEPT 50U,50G,52U	34	87-050-081-019		AC CORD ASSY<50G>
			54U,51GU,50C>	35	87-085-184-010		BUSHING,AC CORD<51GHD>
8	85-NF6-035-010		BOX,CASS L<50U,50G,52U,51GU,50C>	35	87-085-185-010		BUSHING,CORD<EXCEPT 50U,52U
							54U,51GU,51GHD,50C>
8	85-NF6-071-019		BOX,CASS L<54U>	35	87-085-189-010		BUSHING,CORD<50U,52U,54U,51GU
9	85-NF6-011-010		WINDOW,CASS L<EXCEPT 54U>				50C>
9	85-NF6-084-019		WINDOW,CASS L<54U>	36	85-NF6-026-010		PANEL,REAR<50HE>
10	85-NF6-047-010		KEY,GEQ<EXCEPT 54U>	36	85-NF6-027-010		PANEL,REAR<50HR>
10	85-NF6-083-019		KEY,GEQ<54U>				
11	85-NF6-007-010		PANEL,FR<EXCEPT 54U>	36	85-NF6-028-010		PANEL,REAR<50LH>
11	85-NF6-069-019		PANEL,FR<54U>	36	85-NF6-029-010		PANEL,REAR<50U>
12	87-063-165-010		OIL-DMPR 150	36	85-NF6-058-019		PANEL,REAR<50HK>
13	82-NE6-067-010		BADGE AIWA 30N	36	85-NF6-062-019		PANEL,REAR<50G>
14	85-NF6-017-010		KEY,PLAY<EXCEPT 54U>	36	85-NF6-056-019		PANEL,REAR<52U>
14	85-NF6-080-019		KEY,PLAY<54U>	36	85-NF6-070-019		PANEL,REAR<54U>
15	85-NF6-013-010		KEY,POWER<EXCEPT 54U>	36	85-NFG-019-019		PANEL,REAR<51GHK>
15	85-NF6-079-019		KEY,POWER<54U>	36	85-NFG-011-019		PANEL,REAR<51GHE>
16	85-NF6-009-010		WINDOW,CD	36	85-NFG-014-019		PANEL,REAR<51GU>
17	85-NF6-206-010		COVER,FL	36	85-NFG-020-01S		PANEL,REAR<51GHD>
18	85-NF6-014-010		KEY,OPEN<EXCEPT 54U>	36	85-NFG-017-019		PANEL,REAR<51GHR>
18	85-NF6-073-019		KEY,OPEN<54U>	36	85-NF6-090-019		PANEL,REAR<50C>
19	85-NF6-015-010		KEY,DISK<EXCEPT 54U>	37	87-085-221-010		FOOT,H 13.5
19	85-NF6-074-019		KEY,DISC<54U>	38	82-NF5-227-010		HLDR,LOCK 2N
20	83-NF5-020-010		KNOB,MIC<EXCEPT 54U>	39	82-ZM3-213-010		PLATE,SHLD
20	85-NF6-078-019		KNOB,MIC<54U>	40	82-NF5-229-010		PLATE,LOCK
21	85-NF6-023-010		KNOB,MAIN<EXCEPT 54U>	41	82-NF5-226-010		HLDR LOCK 1N
21	85-NF6-076-019		KNOB,MAIN<54U>	42	82-NF5-228-010		SPR-C,LOCK
22	85-NF6-024-010		IND,VOL	43	87-099-811-018		PLUG,ADPTR CONV<50HK,51GHK>
23	85-NF6-021-010		KEY,T-BASS<EXCEPT 54U>	A	87-067-689-010		BVTT+3-8
23	85-NF6-082-019		KEY,T-BASS<54U>	B	87-591-094-410		QIT + 3 - 6 GOLD
24	85-NF6-019-010		KEY,DSP<EXCEPT 54U>	C	87-721-097-410		QT 2+3-12
24	85-NF6-081-019		KEY,DSP<54U>	D	87-067-703-010		BVT 2+3-10 W/O SLOT
25	85-NF6-016-010		KEY,FUN ASSY	E	87-067-660-010		BVT2+3-8W/O SLOT BLK
26	85-NF6-018-010		KEY,KARAOKE<50HE,50HR,50LH,50U	F	87-067-579-010		BVT 2+3-8 W/O SLOT
			50HK,50G,52U,50C>				
26	85-NF6-075-019		KEY,KARAOKE<54U>	G	87-078-084-010		BVTT +3-6 W CONVEX
27	82-NF5-212-010		GUIDE,FL	H	87-067-581-010		BVT2+3-15 W/O SLOT
28	85-NF5-210-010		GUIDE,LED L	I	87-078-019-010		S-SCREW,IT+4-6
29	85-NF5-211-010		GUIDE,LED R	J	87-571-092-410		VIT +3-4
				K	87-067-641-010		UTT2+3-8 W/O SLOT BLK
				L	87-571-032-410		VIT+2-3
				M	85-NF6-205-010		PVCW,3.5-8-1.2
				N	87-084-077-010		NYLON RIVET DIA 3.5-4.5

TAPE MECHANISM EXPLODED VIEW 1/1



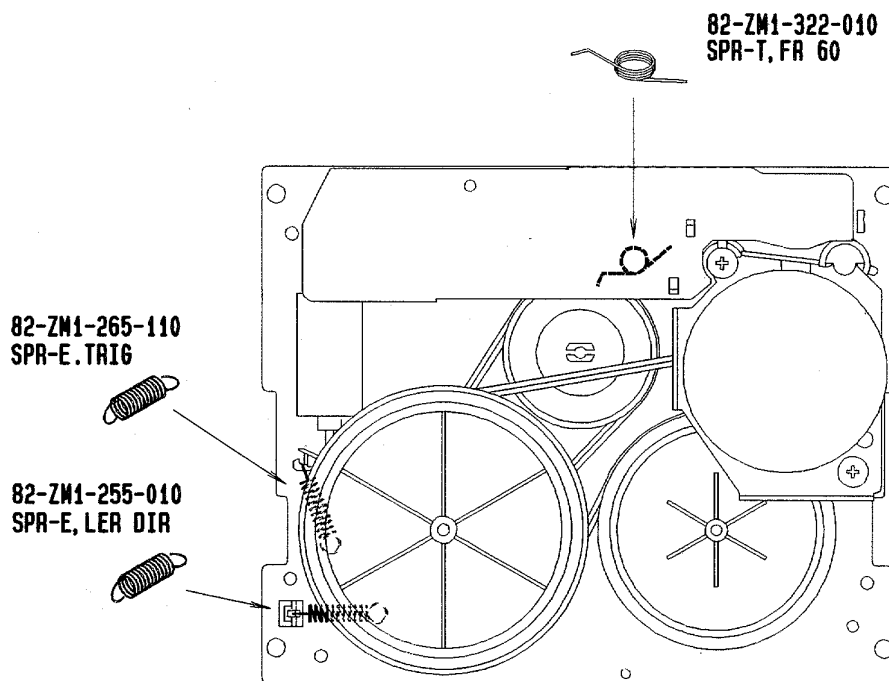
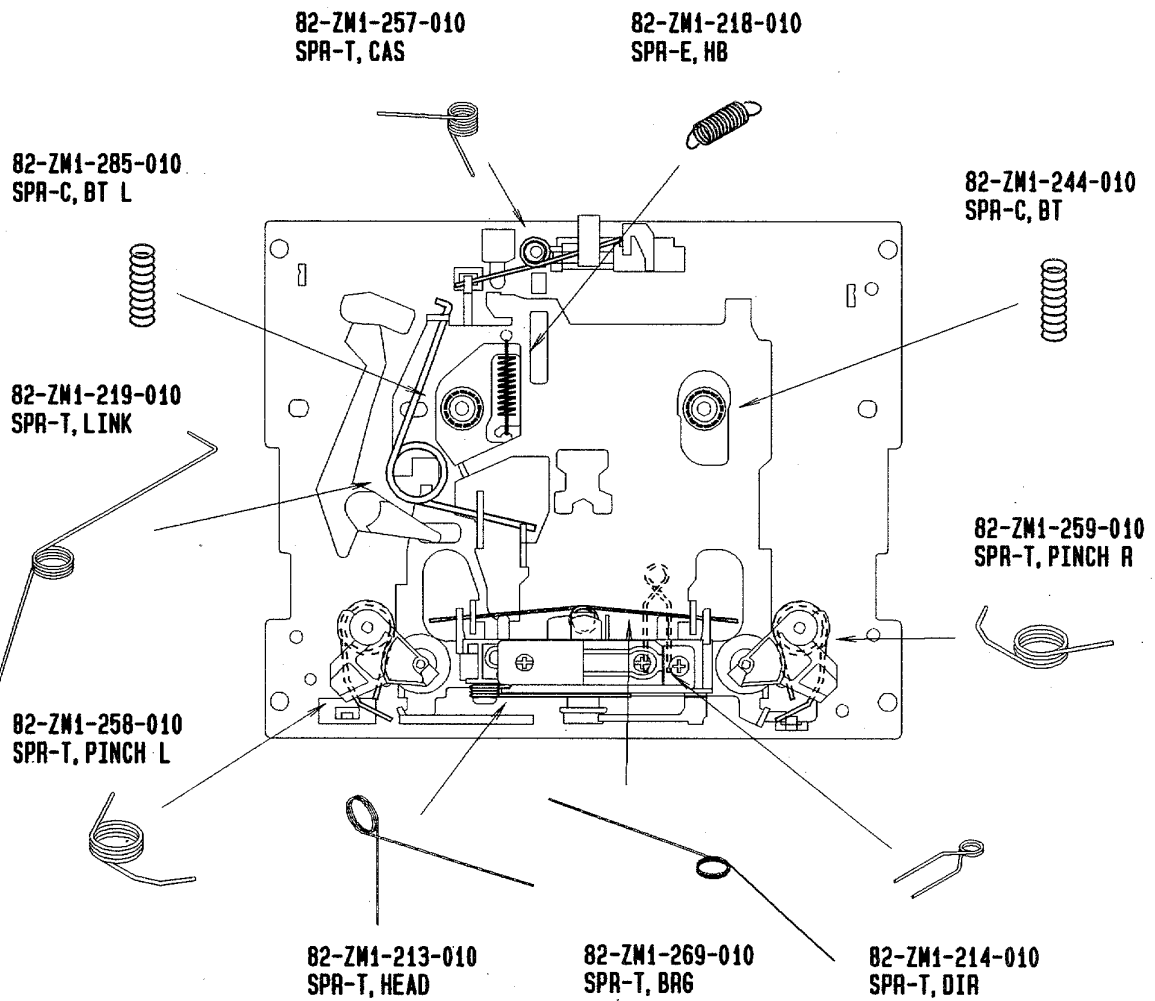


TAPE MECHANISM PARTS LIST 1/1

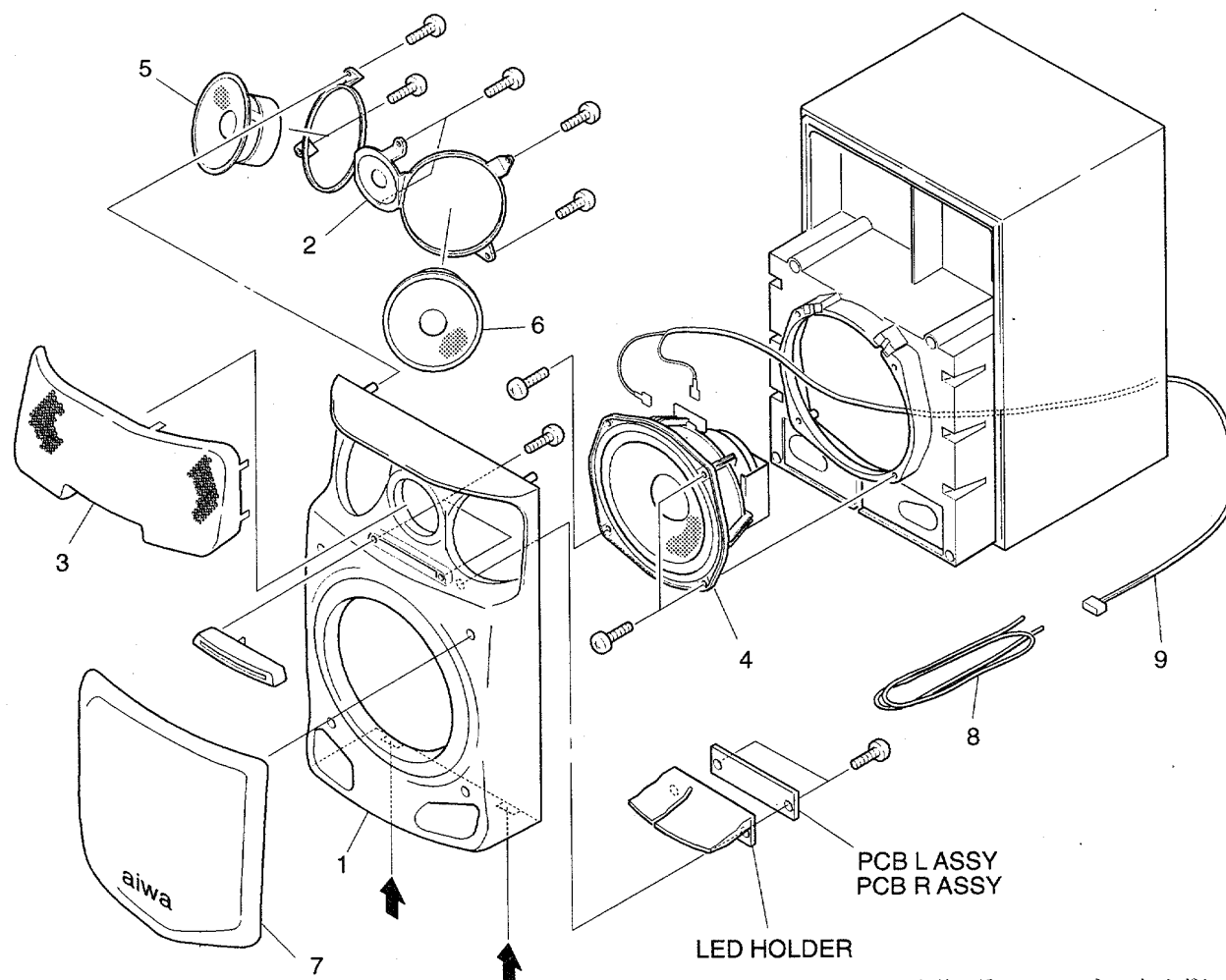
DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY, P (DECK 1)	41	82-ZM1-216-210		GEAR, REEL
1	82-ZM1-299-010		CHAS ASSY, R (DECK 2)	43	82-ZM1-225-010		GEAR, FR
2	82-ZM1-258-010		SPR-T, PINCH L	44	82-ZM1-226-010		GEAR, REW
3	82-ZM1-248-110		LVR ASSY, PINCH L	45	82-ZM1-228-210		SLIP DISK ASSY
4	82-ZM1-295-210		PLATE ASSY, LINK	46	82-ZM1-328-010		BELT FR2
5	82-ZM1-266-010		LVR, DIR	47	82-ZM1-238-610		FLY-WHL ASSY, R (DECK 2)
6	82-ZM1-214-010		SPR-T, DIR	47	82-ZM3-210-510		FLY-WHL ASSY, R2 (DECK 1)
7	82-ZM1-206-210		CHAS, HEAD	48	82-ZM1-235-310		FLY-WHL ASSY, L (DECK 2)
9	82-ZM1-269-010		SPR-T, BRG	48	82-ZM3-208-410		FLY-WHL ASSY, L2 (DECK 1)
10	82-ZM1-219-010		SPR-T, LINK	49	82-ZM3-206-010		BELT, R
11	82-ZM1-210-010		GEAR, H T	50	82-ZM1-245-210		HLDR, IC
12	82-ZM1-213-010		SPR-T, HEAD	51	82-ZM3-215-010		HLDR, MC
13	82-ZM1-207-010		GUIDE, TAPE	52	82-ZM3-202-010		PULLEY, MOT 2M
14	82-ZM1-283-210		S-SCREW, AZIMUTH	53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
15	82-ZM1-314-110		PLATE, HEAD	54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
16	82-ZM1-208-010		HLDR, HEAD	55	80-ZM6-230-010		SH, BELT
17	82-ZM1-218-010		SPR-E, HB	56	82-ZM1-308-110		CUSH-G DIA3.7-9-3.2
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	57	86-575-361-010		CUSH-G, 6-8-0.8
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	58	82-ZM3-205-010		BELT, L
19	82-ZM1-222-010		LVR, PLAY	59	82-ZM3-204-010		PULLEY, COUPLER (DECK 1)
20	82-ZM1-217-110		REEL TABLE	60	87-045-347-010		MOT, SHU2L 70 (M1)
21	82-ZM1-244-110		SPR-C, BT	61	87-046-355-010		HEAD, PH HADKH2529B (PH)
22	82-ZM1-285-110		SPR-C, BT L	61	87-046-356-010		HEAD, RPH HADKH5581B (RPH)
23	82-ZM1-257-010		SPR-T, CAS	62	82-ZM1-312-010		CAPSTAN N 2.2-41.7
24	82-ZM1-241-110		LVR, MC	63	82-ZM1-313-010		CAPSTAN N 2-41.5
25	82-ZM1-242-010		LVR, CAS	A	82-ZM1-315-010		S-SCREW, GVIDE TAPE
26	82-ZM1-243-010		LVR, STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-253-110		LVR ASSY, PINCH R	C	82-ZM1-309-010		S-SCRW, MOTOR
28	82-ZM1-259-010		SPR-T, PINCH R	D	87-067-178-010		VTT+2.6-3
29	82-ZM1-240-110		LVR, REC (DECK 2)	E	82-ZM1-597-019		PW, 2.15-6.8-0.4 SLT
30	82-ZM1-298-010		SPR-P, EARTH	F	87-067-972-010		PW, 1.05-3-0.25 SLT
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				
35	82-ZM1-265-110		SPR-E, TRIG				
37	82-ZM1-223-010		GEAR, PLAY				
38	82-ZM1-322-019		SPR-T, FR60				
39	82-ZM1-220-210		GEAR, IDLER				
40	82-ZM1-316-010		RING MAGNET 3				

SPRING APPLICATION POSITION



SPEAKER EXPLODED VIEW 1/1



矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、
各々のスピーカー・ユニットのビスを取り、スピーカー・ユニット
をはずしてください。

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

SPEAKER EXPLODED VIEW 1/1 (SX-FNV50/54/50L)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-NS6-001-019		PANEL FR<EXCEPT 54YUW>	5	83-NS8-606-019		SPEAKER MID
1	85-NS6-040-019		PANEL FR<54YUW>	6	83-NS8-608-019		SPEAKER
2	85-NS5-011-019		ADAPTOR ASSY	7	85-NS6-011-019		GRILL FRAME ASSY
3	85-NS6-010-019		SPEAKER GRILL	8	85-NS6-611-019		SPEAKER CORD Y/B<YU,Y,54YUW>
4	85-NS6-602-019		SPEAKER WOOFER	9	83-NS5-613-010		SPEAKER CORD ASSY

■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

NSX-V50/52/54

REF.NO	PART NO.	カリ NO.	DESCRIPTION
1	85-NF6-901-119		IB, EAC-M<HE, HR, HK>
2	85-NF6-902-119		IB, ESF-M<LH>
3	85-NF6-903-119		IB, ESF(U) -M<UB, 2UB, 4UW, C>
4	85-NF6-908-019		IB, ESF(G) -M<G>
5	85-NF6-086-019		RC-T514<4UW>
6	87-006-225-019		AM LOOP ANT NC2 <EXCEPT HE, HR, HK>
7	87-006-240-019		AM LOOP ANT CON(KO) <HE, HR, HK>
8	87-043-095-019		5M(SW) WIRE-ANT(S) <HE, HR, HK>
9	87-043-115-01B		ANT, FEEDER FM
10	87-099-789-019		PLUG, ADPTR IR44 <HE, HR, HK, LH, G>

NSX-V51G

REF.NO	PART NO.	カリ NO.	DESCRIPTION
1	85-NF6-901-110		IB, EAC-M<HE, HR, HK>
2	85-NF6-903-210		IB, ESF(U) -M<U>
3	85-NF6-909-010		IB, EAC-J<HD>
4	85-NF6-902-010		IB, EAC(HD) -J<HD>
5	85-NF5-631-010		RC-T501<EXCEPT HD>
6	85-NF6-631-010		RC-T501<HD>
7	87-006-225-010		AM LOOP ANT NC2<U, HD>
8	87-006-240-010		AM LOOP ANT CON(KO) <HE, HR, HK>
9	87-009-724-010		PLUG, ADPTR, IR39<HD>
10	87-039-929-010		CD, DGI-83299<HE, HR, HK>
11	87-043-095-010		5M(SW) WIRE-ANT(S) <HE, HR, HK>
12	87-043-115-010		ANT, FEEDER FM
13	87-050-050-010		CORD-1.5M PIN-PIN M<HD>
14	87-099-789-010		PLUG, ADPTR IR44<HE, HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

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
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

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.

737004, 750038

Tokyo Japan