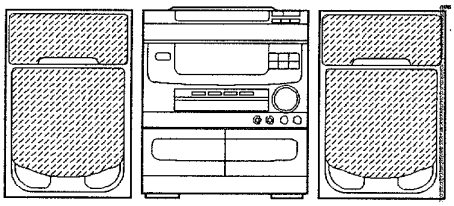
aiwa

aiwa SERVICE

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

SERVICE MANUAL



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).

S/M Code No. 09-957-108-20T

TABLE OF CONTENTS

SPECIFICATIONS 3
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 4
PRECAUTION TO REPLACE OPTICAL BLOCK 4
ELECTRICAL MAIN PARTS LIST ..... 5~9
TRANSISTOR ILLUSTRATION 10
BLOCK DIAGRAM-1 (MAIN / FRONT) 11, 12
BLOCK DIAGRAM-2 (TUNER: HE, HR, HK) 13
IC BLOCK DIAGRAM-1 14
WIRING-1 (MAIN: HE, HR, HK) 15, 16
SCHEMATIC DIAGRAM-1 (MAIN: HE, HR, HK) ..... 17~19
BLOCK DIAGRAM-3 (TUNER: LH, U, C, G) 20
WIRING-2 (MAIN: LH, U, C, G) 21, 22
SCHEMATIC DIAGRAM-2 (MAIN: LH, U, C, G) ..... 23~25
SCHEMATIC DIAGRAM-3 (MAIN: HD) ..... 26~28
WIRING-3 (MAIN: HD) 29, 30
BLOCK DIAGRAM-4 (TUNER: HD) 31
SCHEMATIC DIAGRAM-4 (FRONT) ..... 32~34
WIRING-4 (FRONT) 35, 36
WIRING-5 (DECK / S·WAVE) 37, 38
WIRING-6 (PT) 39
FL (BJ362GK) GRID ASSIGNMENT / ANODE CONNECTION 40
IC DESCRIPTION ..... 41~45
ELECTRICAL ADJUSTMENT / PRACTICAL SERVICE FIGURE ..... 46~51
IC BLOCK DIAGRAM-2 ..... 52~54
MECHANICAL EXPLODED VIEW 1 / 1 ..... 55, 56
MECHANICAL PARTS LIST 1 / 1 57
TAPE MECHANISM EXPLODED VIEW 1 / 1 ..... 58, 59
TAPE MECHANISM PARTS LIST 1 / 1 60
SPRING APPLICATION POSITION 61
SPEAKER EXPLODED VIEW 1 / 1 62
SPEAKER PARTS LIST 1 / 1 62
■ ACCESSORIES / PACKAGE LIST 63
REFERENCE NAME LIST 64

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 µV/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)
Outputs	1.0 Vp-p (75 ohms) 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	CrO2 tape: 50 Hz-16000 Hz Normal tape: 50 Hz-15000 Hz
Signal-to-noise-ratio	60 dB (Dolby B NR ON, CrO2 tape peak level above 5 kHz)
Recording system	AC bias
Heads	Deck 1: Playback head × 1 Deck 2: Recording/playback/erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ=780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03% (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 5/8 in.) cone type Tweeter: 80 mm (3 1/4 in.) cone type Super tweeter: 50 mm (2 in.) ceramic type Surround speaker: 80 mm (3 1/4 in.) cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	206 × 302 × 260 mm (8 1/8 × 12 × 10 1/4 in.)
Weight	3.6 kg (7 lbs. 15 oz.)

General

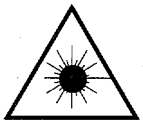
Power requirements	HD: 100-120 V/200-240 V AC, switchable 50/60 Hz HE, HR, HK, LH: 120 V/220-230 V/240 V AC, switchable 50/60 Hz U, C: 120 V AC fixed 60 Hz G: 230-240 V AC, fixed 50 Hz
Power consumption	HE, HK: 85 W LH, HD, HR: 100 W U, C: 110 W G: 120 W
Dimensions of main unit (W × H × D)	260 × 306.8 × 339.5 mm (10 1/4 × 12 1/8 × 13 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 ylittävälle näkymättömälle lasersäteilylle.

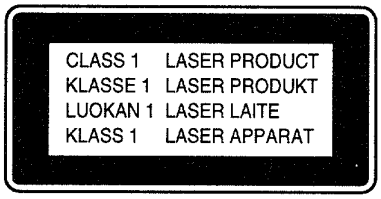
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

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

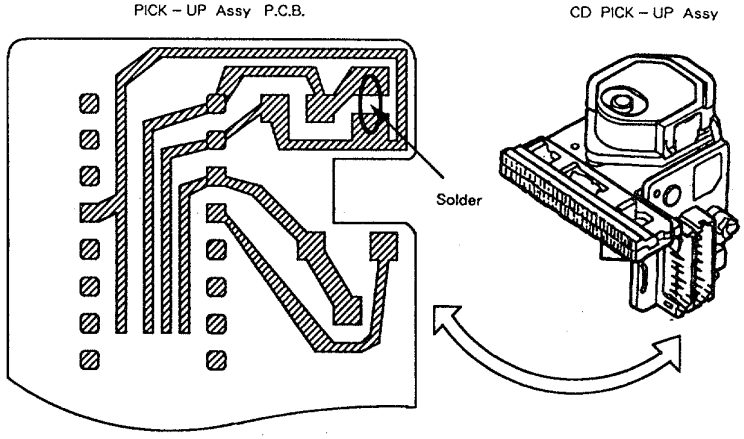
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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.	カンリ NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	85-NF6-602-010		IC,LC866432V-5752
	87-070-083-010		IC,GP1U281X
	87-001-582-010		IC,STK41522
	87-070-121-010		IC,HA12185NT
	87-070-232-010		IC,BA3834S
	87-017-375-080		IC,TC4094BF
	87-001-874-010		IC,HA12134A
	87-017-673-010		IC,BA3837
	87-017-022-080		IC,NJM2068M-D(T1)
	87-017-374-010		IC,TC4094BP
	87-017-804-010		IC,BU4052BCP
	87-070-184-040		IC,M65846FP-600D
	87-017-787-010		IC,M62412P
	87-070-127-010		IC,LC72131
	87-002-642-080		IC,TA8124F<HD>
	87-001-607-080		IC,NJM4558M
	87-017-714-010		IC,LA1836
	87-017-675-080		IC,M65840FP<1GHE,1GHR,1GHK,1GU,HD>
	87-001-486-080		IC,ICP-N15T104<1GU,U,C>
TRANSISTOR			
	87-026-463-080		TR,2SA933S(RS)
	89-213-702-010		TR,2SB1370E
	87-026-609-080		TR,KTA1266GR
	87-026-610-080		TR,KTC3198GR
	89-327-125-080		C-TR,2SC2712GR
	89-332-665-080		TR,2SC3266GR
	89-420-053-080		TR,2SD2005R<1GU,U,C>
	89-111-625-080		C-TR,2SA1162GR
	89-113-137-880		TR,2SA1318TU
	87-026-235-080		C-TR,DTC114EK
	89-333-266-080		C-TR,2SC3326B
	87-026-211-080		C-TR,DTA144EK
	87-026-232-080		C-TR,DTA144WK
	87-026-226-080		C-TR,DTA143EK
	89-503-655-680		FET,2SK365GR/BL
	89-333-317-080		TR,2SC3331T
	89-109-521-080		TR,2SA952K
	89-112-965-080		TR,2SA1296GR
	89-406-555-080		TR,2SD655E
	87-026-214-080		TR,DTA114YS
	87-026-219-080		TR,DTA144ES<HD>
	87-026-213-080		C-TR,DTC114YK<HD>
	89-327-143-080		TR,2SC2714(O)
	89-318-154-080		TR,2SC1815Y<EXCEPT 1GU,HD,LH,U,C,G>
	87-026-462-080		TR,2SC1740S(RS)<EXCEPT 1GU,HD,LH,U,C,G>
	89-320-011-080		TR,2SC2001K<EXCEPT 1GU,HD,LH,U,C,G>
	89-505-434-580		C-FET,2SK543(4/5)
	89-318-155-080		TR,2SC1815GR<EXCEPT 1GU,HD,LH,U,C,G>
DIODE			
	87-017-978-080		DIODE,1N4003
	87-020-027-080		C-DIODE,1SS184
	87-020-125-080		C-DIODE,1SS181
	87-020-465-080		DIODE,ISS133
	87-017-174-080		ZENER,HZS11A3L
	87-070-150-080		ZENER,MTZJ33D
	87-002-225-010		DIODE,DBF 40C-K10<1GHR,1GU,HD,50HR,LH,U,C,G>
	87-020-691-080		DIODE,1SS132 T-72
	87-002-608-080		DIODE,DSF10TC
	87-001-914-080		ZENER,UTZJ6.2B
	87-070-136-080		ZENER,MTZJ5.1B
	87-020-331-080		C-DIODE,DAN202K
	87-001-290-080		ZENER,HZS6B1L
	87-020-330-080		C-DIODE,DAP202K
	87-001-559-080		DIODE,1SS131
	87-017-148-080		ZENER,HZS6A1L
	87-020-125-009		C-DIODE,1SS181<EXCEPT 1GU,HD,LH,U,C,G>
MAIN C.B			
C102	87-010-390-090		CAP,ELECT 25-3300SME<EXCEPT HD>
C102	87-010-399-090		CAP,ELECT 35-3300SME<HD>
C104	87-010-235-080		CAP,E 470-16 SME
C105	87-010-381-080		CAP,E 330-16 SME
C106	87-010-764-080		CAP,E 47-63
C107	87-010-406-080		CAP,E 22-50 SME
C108	87-010-406-080		CAP,E 22-50 SME
C109	87-010-263-080		CAP,E 100-10
C112	87-010-382-080		CAP,E 22-25 SME<1GHE,1GHR,1GHK,1GU,HD>
C112	87-010-406-080		CAP,E 22-50 SME<50HE,50HR,50HK,LH,U,C,G>
C113	87-010-403-080		CAP,E 3.3-50 SME
C115	87-016-247-080		C-CAP,0.1-50F
C116	87-010-179-080		C-CAP,S 1200P-50 B<50HE,50HR,50HK,LH,U,C,G>
C116	87-012-140-080		C-CAP,S 470P-50 CH<1GHE,1GHR,1GHK,1GU,HD>
C117	87-010-196-080		C-CAP,S 0.1-25 F
C118	87-010-196-080		C-CAP,S 0.1-25 F
C119	87-010-196-080		C-CAP,S 0.1-25 F
C126	87-016-055-090		CAP,E 3300-42 HI-R
C127	87-016-055-090		CAP,E 3300-42 HI-R
C128	87-012-368-080		C-CAP,S 0.1-50 F
C131	87-012-368-080		C-CAP,S 0.1-50 F
C135	87-012-368-080		C-CAP,S 0.1-50 F<1GU,U,C>
C152	87-010-260-080		CAP,E 47-25 SME
C213	87-010-401-080		CAP,E 1-50 SME
C214	87-010-401-080		CAP,E 1-50 SME
C215	87-010-182-080		C-CAP,S 2200P-50 B
C216	87-010-182-080		C-CAP,S 2200P-50 B
C217	87-010-404-080		CAP,E 4.7-50 SME
C218	87-010-404-080		CAP,E 4.7-50 SME
C221	87-010-400-080		CAP,E 0.47-50 SME<1GU,U,C>
C221	87-010-401-080		CAP,E 1-50 SME<EXCEPT 1GU,U,C>
C222	87-010-400-080		CAP,E 0.47-50 SME<1GU,U,C>
C222	87-010-401-080		CAP,E 1-50 SME<EXCEPT 1GU,U,C>
C223	87-010-260-080		CAP,E 47-25 SME
C224	87-010-260-080		CAP,E 47-25 SME
C225	87-010-260-080		CAP,E 47-25 SME
C226	87-010-260-080		CAP,E 47-25 SME
C227	87-018-209-080		CAP,TC-U 0.1-50 F
C228	87-018-209-080		CAP,TC-U 0.1-50 F
C231	87-010-196-080		C-CAP,S 0.1-25 F
C243	87-010-154-080		C-CAP,S 10P-50 CH
C244	87-015-879-080		C-CAP,10P CH
C245	87-018-208-080		CAP,TC-U 0.047-50 F
C250	87-010-197-080		C-CAP,S 0.01-25 B
C297	87-010-260-080		CAP,E 47-25 SME<EXCEPT 1GU,U,C>
C298	87-010-260-080		CAP,E 47-25 SME<EXCEPT 1GU,U,C>
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-155-080		C-CAP,S 180P-50 CH
C306	87-012-155-080		C-CAP,S 180P-50 CH
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.	カンリ NO.	DESCRIPTION
C313	87-010-181-080		C-CAP,S 1800P-50 B
C314	87-010-181-080		C-CAP,S 1800P-50 B
C315	87-010-179-080		C-CAP,S 1200P-50 B
C316	87-010-179-080		C-CAP,S 1200P-50 B
C317	87-012-142-080		C-CAP,S 0.33-16 F
C318	87-010-955-080		C-CAP,0.33-16 R
C319	87-012-141-080		C-CAP,S 0.22-16 F
C320	87-012-141-080		C-CAP,S 0.22-16 F
C321	87-010-196-080		C-CAP,S 0.1-25 F
C322	87-010-196-080		C-CAP,S 0.1-25 F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 SME
C326	87-010-196-080		C-CAP,S 0.1-25 F
C332	87-010-196-080		C-CAP,S 0.1-25 F
C334	87-010-406-080		CAP,E 22-50 SME
			<50HE,50HR,50HK,LH,U,C,G>
C335	87-010-805-080		C-CAP,S 1-16F
C336	87-010-805-080		C-CAP,S 1-16F
C351	87-012-154-080		C-CAP,S 150P-50 CH
C352	87-012-154-080		C-CAP,S 150P-50 CH
C451	87-012-140-080		C-CAP,S 470P-50 CH
C452	87-012-140-080		C-CAP,S 470P-50 CH
C453	87-010-178-080		C-CAP,S 1000P-50 B
C454	87-010-175-080		C-CAP,S 560P-50 SL
C455	87-010-175-080		C-CAP,S 560P-50 SL
C456	87-010-260-080		CAP,E 47-25 SME
C457	87-010-197-080		C-CAP,S 0.01-25 B
C458	87-010-183-080		C-CAP,S 2700P-50 B
C459	87-010-183-080		C-CAP,S 2700P-50 B
C460	87-010-183-080		C-CAP,S 2700P-50 B
C470	87-010-196-080		C-CAP,S 0.1-25 F
C501	87-010-177-080		C-CAP,S 820P-50 SL
C502	87-010-177-080		C-CAP,S 820P-50 SL
C503	87-012-155-080		C-CAP,S 180P-50 CH
C504	87-012-155-080		C-CAP,S 180P-50 CH
C515	87-010-545-080		CAP,E 0.22-50 SME
C516	87-010-545-080		CAP,E 0.22-50 SME
C519	87-010-196-080		C-CAP,S 0.1-25 F
C521	87-010-197-080		C-CAP,S 0.01-25 B
C522	87-010-318-080		C-CAP,S 47P-50 CH
C523	87-010-197-080		C-CAP,S 0.01-25 B
C524	87-010-402-080		CAP,E 2.2-50 SME
C530	87-010-194-080		C-CAP,S 0.047-25 F
C531	87-010-545-080		CAP,E 0.22-50 SME
C532	87-010-382-080		CAP,E 22-25 SME
C533	87-010-404-080		CAP,E 4.7-50 SME
C534	87-010-404-080		CAP,E 4.7-50 SME
C535	87-010-404-080		CAP,E 4.7-50 SME
C536	87-010-404-080		CAP,E 4.7-50 SME
C537	87-018-209-080		CAP,TC-U 0.1-50 F
C538	87-010-384-080		CAP,E 100-25 SME
C539	87-010-196-080		C-CAP,S 0.1-25 F
			<1GHE,1GHR,1GHK,1GU,HD>
C540	87-010-196-080		C-CAP,S 0.1-25 F
C541	87-010-196-080		C-CAP,S 0.1-25 F
C543	87-010-546-080		CAP,E 0.33-50 SME
C544	87-010-546-080		CAP,E 0.33-50 SME
C545	87-010-400-080		CAP,E 0.47-50 SME
C546	87-010-400-080		CAP,E 0.47-50 SME
C547	87-010-426-080		C-CAP,S 0.012-25 B
			<EXCEPT 1GU,HD,LH,U,C,G>
C547	87-010-428-080		C-CAP,S 0.015-25 B<HD,G>
C547	87-010-198-080		C-CAP,S 0.022-25 B<1GU,LH,U,C>
C548	87-010-426-080		C-CAP,S 0.012-25 B
			<EXCEPT 1GU,HD,LH,U,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
C553	87-010-178-080		C-CAP,S 1000P-50 B
			<1GU,LH,U,C,G>
C553	87-010-183-080		C-CAP,S 2700P-50 B
			<EXCEPT 1GU,HD,LH,U,C,G>
C554	87-010-178-080		C-CAP,S 1000P-50 B
			<1GU,LH,U,C,G>
C554	87-010-183-080		C-CAP,S 2700P-50 B
			<EXCEPT 1GU,HD,LH,U,C,G>
C557	87-010-178-080		C-CAP,S 1000P-50 B<EXCEPT HD>
C558	87-010-178-080		C-CAP,S 1000P-50 B
C641	87-010-196-080		C-CAP,S 0.1-25 F
C642	87-010-196-080		C-CAP,S 0.1-25 F
			<EXCEPT LH,U,C,G>
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 SME
C703	87-010-197-080		C-CAP,S 0.01-25 B
C704	87-010-197-080		C-CAP,S 0.01-25 B
C711	87-010-263-080		CAP,E 100-10 SME 5X11
C712	87-010-196-080		C-CAP,S 0.1-25 F
C721	87-010-313-080		C-CAP,S 18P-50 CH<HD>
C722	87-010-311-080		C-CAP,S 12P-50 CH
C723	87-010-178-080		C-CAP,S 1000P-50 B
C725	87-010-178-080		C-CAP,S 1000P-50 B
C727	87-010-196-080		C-CAP,S 0.1-25 F
C728	87-010-248-080		CAP,E 220-10 SME
C739	87-010-313-080		C-CAP,S 18P-50 CH<HD>
C741	87-010-545-080		CAP,E 0.22-50 SME<HD>
C742	87-010-154-080		C-CAP,S 10P-50 CH<HD>
C743	87-010-404-080		CAP,E 4.7-50 SME<HD>
C744	87-010-260-080		CAP,E 47-25 SME<HD>
C745	87-010-545-080		CAP,E 0.22-50 SME<HD>
C746	87-010-545-080		CAP,E 0.22-50 SME<HD>
C747	87-010-197-080		C-CAP,S 0.01-25 B<HD>
C748	87-010-198-080		C-CAP,S 0.022-25 B<HD>
C749	87-010-248-080		CAP,E 220-10 SME<HD>
C753	87-010-404-080		CAP,E 4.7-50 SME<HD>
C770	87-010-405-080		CAP,E 10-50 SME
C771	87-010-405-080		CAP,E 10-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 F
C773	87-010-196-080		C-CAP,S 0.1-25 F
C774	87-010-263-080		CAP,E 100-10 SME 5X11
C775	87-010-405-080		CAP,E 10-50 SME
C776	87-010-197-080		C-CAP,S 0.01-25 B
			<1GU,HD,LH,U,C,G>
C777	87-010-400-080		CAP,E 0.47-50 SME
C778	87-010-401-080		CAP,E 1-50 SME
C779	87-010-401-080		CAP,E 1-50 SME
C780	87-010-197-080		C-CAP,S 0.01-25 B
C781	87-010-401-080		CAP,E 1-50 SME<HD>
C781	87-010-405-080		CAP,E 10-50 SME<EXCEPT HD>
C782	87-010-401-080		CAP,E 1-50 SME<HD>
C782	87-010-405-080		CAP,E 10-50 SME<EXCEPT HD>
C783	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C784	87-010-182-080		C-CAP,S 2200P-50 B<HD>
C787	87-010-184-080		C-CAP,S 3300P-50 B
C788	87-010-184-080		C-CAP,S 3300P-50 B
C789	87-010-179-080		C-CAP,S 1200P-50 B
C790	87-010-179-080		C-CAP,S 1200P-50 B
C791	87-010-401-080		CAP,E 1-50 SME
C792	87-010-180-080		C-CAP,S 1500P-50 B
C793	87-010-189-080		C-CAP,S 8200P-50 B
C794	87-010-408-080		CAP,E 47-50 SME
C795	87-010-194-080		C-CAP,S 0.047-25 F
C796	87-010-403-080		CAP,E 3.3-50 SME
C797	87-010-405-080		CAP,E 10-50 SME
			<1GU,HD,LH,U,C,G>
C798	87-010-196-080		C-CAP,S 0.1-25 F
			<1GU,HD,LH,U,C,G>
C814	87-010-197-080		C-CAP,S 0.01-25 B
			<EXCEPT LH,U,C,G>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C815	87-018-134-080		CAP,TC-U 0.01-16 Y
C817	87-010-197-080		C-CAP,S 0.01-25 B
C818	87-010-197-080		C-CAP,S 0.01-25 B
C819	87-010-197-080		C-CAP,S 0.01-25 B
C820	87-010-260-080		CAP,E 47-25 SME
C821	87-010-197-080		C-CAP,S 0.01-25 B
C822	87-010-197-080		C-CAP,S 0.01-25 B
C823	87-010-197-080		C-CAP,S 0.01-25 B
C824	87-018-134-080		CAP,TC-U 0.01-16 Y
			<1GU,HD,LH,U,C,G>
C825	87-015-819-080		CHIP CAP 0.01
			<1GHE,1GHR,1GHK,1GU,HD>
C826	87-010-196-080		C-CAP,S 0.1-25 F
C827	87-010-196-080		C-CAP,S 0.1-25 F
C830	87-015-819-080		CHIP CAP 0.01
C831	87-010-197-080		C-CAP,S 0.01-25 B
C832	87-010-197-080		C-CAP,S 0.01-25 B
			<EXCEPT 1GU,HD,LH,U,C,G>
C833	87-010-197-080		C-CAP,S 0.01-25 B
			<EXCEPT 1GU,LH,U,C,G>
C835	87-010-197-080		C-CAP,S 0.01-25 B
C901	87-010-401-080		CAP,E 1-50 SME
			<1GHE,1GHR,1GHK,1GU,HD>
C902	87-010-178-080		C-CAP,S 1000P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C903	87-010-178-080		C-CAP,S 1000P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C904	87-010-184-080		C-CAP,S 3300P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C905	87-010-177-080		C-CAP,S 820P-50 SL
			<1GHE,1GHR,1GHK,1GU,HD>
C906	87-010-178-080		C-CAP,S 1000P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C907	87-010-185-080		C-CAP,S 3900P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C909	87-010-175-080		C-CAP,S 560P-50 SL
			<1GHE,1GHR,1GHK,1GU,HD>
C910	87-010-176-080		C-CAP,S 680P-50 SL
			<1GHE,1GHR,1GHK,1GU,HD>
C911	87-010-196-080		C-CAP,S 0.1-25 F
			<1GHE,1GHR,1GHK,1GU,HD>
C918	87-010-186-080		C-CAP,S 4700P-50 B
			<1GHE,1GHR,1GHK,1GU,HD>
C920	87-010-408-080		CAP,E 47-50 SME
			<1GHE,1GHR,1GHK,1GU,HD>
C921	87-010-247-080		CAP,E 100-50 SME
			<1GHE,1GHR,1GHK,1GU,HD>
C922	87-010-196-080		C-CAP,S 0.1-25 F
			<1GHE,1GHR,1GHK,1GU,HD>
C923	87-010-154-080		C-CAP,S 10P-50 CH
			<1GHE,1GHR,1GHK,1GU,HD>
C924	87-010-154-080		C-CAP,S 10P-50 CH
			<1GHE,1GHR,1GHK,1GU,HD>
C925	87-018-209-080		CAP,TC-U 0.1-50 F
			<1GHE,1GHR,1GHK,1GU,HD>
C926	87-010-196-080		C-CAP,S 0.1-25 F
			<50HE,50HR,50HK,LH,U,C,G>
C927	87-010-197-080		C-CAP,S 0.01-25 B
			<1GHE,1GHR,1GHK,1GU,HD>
C945	87-012-154-080		C-CAP,S 150P-50 CH
			<1GHE,1GHR,1GHK,1GU,HD>
C947	87-010-401-080		CAP,E 1-50 SME
C949	87-010-197-080		C-CAP,S 0.01-25 B
			<1GU,HD,LH,U,C,G>
C951	87-010-401-080		CAP,E 1-50 SME
			<1GU,HD,LH,U,C,G>
C952	87-010-311-080		C-CAP,S 12P-50 CH
			<1GU,HD,LH,U,C,G>
C983	87-010-544-080		CAP,E 0.1-50<1GU,HD,LH,U,C,G>
C986	87-015-785-080		C-CAP,0.1-25 F<HD>
C986	87-010-196-080		C-CAP,S 0.1-25 F<HD>
C987	87-015-819-080		CHIP CAP 0.01
C988	87-016-247-080		C-CAP,0.1-50F
C990	87-010-197-080		C-CAP,S 0.01-25 B
			<1GU,HD,LH,U,C,G>
C993	87-010-197-080		C-CAP,S 0.01-25 B
			<EXCEPT 1GU,LH,U,C,G>
C995	87-010-197-080		C-CAP,S 0.01-25 B
C999	87-018-134-080		CAP,TC-U 0.01-16 Y
			<1GU,HD,LH,U,C,G>
CF801	87-008-261-010		FILTER,SFE10.7MA5-A
CF802	87-008-261-010		FILTER,SFE10.7MA5-A
FFE801	85-NF5-605-010		FE PACK 2 EX<EXCEPT HD>
FFE801	85-NF5-606-010		FE PACK 3 D-N<HD>
J250	87-099-678-010		JACK,6.3W/S BLK
J253	87-009-621-010		JACK,PIN 1P BLK
			<EXCEPT 1GU,U,C,G>
J253	87-099-475-010		JACK,PIN 3P BLK W/E<1GU,U,C,G>
J254	87-033-227-010		TERMINAL,SP 4P R(Z)*<EXCEPT 1GU>
J254	87-033-229-010		TERMINAL,SP 4P U<1GU>
J652	80-MT3-616-010		JACK,PIN 2P
J801	82-NF5-621-010		ANT TERM JBT0222
L403	87-007-341-010		COIL,TRAP 85K
L404	87-007-341-010		COIL,TRAP 85K
L451	87-007-336-010		COIL,OSC 85K BIAS
L701	81-631-643-010		COIL,1 POLE MPX
L702	81-631-643-010		COIL,1 POLE MPX
L741	87-006-253-010		COIL,FM.DET N
L742	81-631-612-010		CFMT 450A
			<EXCEPT 1GU,HD,LH,U,C,G>
L742	82-NT1-659-010		FILTER,CFAZ-450 2NT
			<1GU,LH,U,C,G>
L742	82-NT1-684-010		FILTER,PCFMT-060 2NT<HD>
L770	87-003-102-080		COIL,10UH
L832	87-003-098-080		COIL,2.2UH
L981	81-MX4-620-010		AM PACK 3,S<1GU,HD,LH,U,C,G>
R105	87-022-050-080		RES,M/F 0.22-1W
R106	87-022-050-080		RES,M/F 0.22-1W
R203	87-022-571-080		RES,M/F 0.33-2WJ<EXCEPT 1GU,U,C>
R204	87-022-571-080		RES,M/F 0.33-2WJ<EXCEPT 1GU,U,C>
RY101	87-045-372-010		RELAY,DH12D2-O(M)<C>
RY101	87-045-361-010		RELAY,DH12D2-OS(M)-2<EXCEPT C>
RY102	87-045-382-010		RELAY,OUAZ-SH-112L
SFR301	87-024-174-080		SFR,33K DIA6 V
SFR302	87-024-174-080		SFR,33K DIA6 V
SFR303	87-024-174-080		SFR,33K DIA6 V
SFR304	87-024-174-080		SFR,33K DIA6 V
SFR305	87-024-175-080		SFR,47K DIA6 V
SFR306	87-024-175-080		SFR,47K DIA6 V
SFR451	87-024-175-080		SFR,47K DIA6 V
SFR452	87-024-175-080		SFR,47K DIA6 V
SFR722	87-024-170-080		SFR,3.3K DIA6 V
TC701	87-011-253-080		TRIMMER,30P LAR<EXCEPT HD>
VR651	82-NF5-660-010		VR,50KBX2 RK14K12A
W101	85-NF5-628-010		F-CABLE,7P-2.5<EXCEPT HD>
W101	83-NEK-601-010		F-CABLE,7P-2.5<HD>
W102	85-NF5-617-010		CABLE,FFC 6P-1.25
X702	87-030-283-010		VIB,CER CSA3.60MGF N<HD>
X703	84-508-618-010		VIB,CER CSB 456 F15
			<EXCEPT 1GU,LH,U,C,G>
X721	87-030-163-010		VIB,XTAL 7.2MHZ(NDK)
			<1GU,LH,U,C,G>
X721	87-030-278-080		VIB,XTAL 7.2MHZ,S
			<EXCEPT 1GU,LH,U,C,G
X722	87-030-354-010		VIB,CF BFU450C
			<EXCEPT 1GU,HD,LH,U,C,G>
X901	87-030-348-080		VIB,CER 16.0MHZ CST
			<1GHE,1GHR,1GHK,1GU,HD>

FRONT C.B

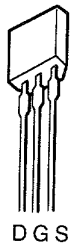
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C201	87-015-698-040		CAP,E 4.7-50 7L
C202	87-015-698-040		CAP,E 4.7-50 7L
C203	87-010-408-040		CAP,E 47-50 SME
C204	87-010-401-040		CAP,E 1-50 SME
C205	87-010-263-040		CAP,E 100-10
C206	87-010-248-040		CAP,E 220-10 SME
C207	87-015-695-040		CAP,E 1-50 7L
C208	87-015-785-080		C-CAP,0.1-25 F
C209	87-010-317-080		C-CAP,S 39P-50 CH
C210	87-010-313-080		C-CAP,S 18P-50 CH
C211	87-010-318-080		C-CAP,S 47P-50 CH
C212	87-015-681-040		CAP,E 10-16 7L
C213	87-010-196-080		C-CAP,S 0.1-25 F
C214	87-010-196-080		C-CAP,S 0.1-25 F
C215	87-015-785-080		C-CAP,0.1-25 F
C250	87-010-178-080		C-CAP,S 1000P-50 B
C381	87-010-196-080		C-CAP,S 0.1-25 F
C382	87-010-196-080		C-CAP,S 0.1-25 F
C383	87-010-196-080		C-CAP,S 0.1-25 F
C384	87-010-196-080		C-CAP,S 0.1-25 F
C389	87-010-196-080		C-CAP,S 0.1-25 F
C401	87-010-196-080		C-CAP,S 0.1-25 F
C601	87-010-196-080		C-CAP,S 0.1-25 F
C602	87-010-322-080		C-CAP,S 100P-50 CH
C605	87-010-490-040		CAP,E 0.1-50 GAS
C606	87-015-676-040		CAP,E 47-6.3 7L
C607	87-010-319-080		C-CAP,S 56P-50 CH
C608	87-010-112-040		CAP,E 100-16
C609	87-010-196-080		C-CAP,S 0.1-25 F
C610	87-012-155-080		C-CAP,S 180P-50 CH
C611	87-010-370-040		CAP,E 330-6.3 SME
C613	87-010-196-080		C-CAP,S 0.1-25 F
C630	87-010-498-040		CAP,E 10-16 GAS
C640	87-010-382-040		CAP,E 22-25 SME
C646	87-010-196-080		C-CAP,S 0.1-25 F
C651	87-010-152-080		C-CAP,S 8P-50 CH
C652	87-010-152-080		C-CAP,S 8P-50 CH
C653	87-010-426-080		C-CAP,S 0.012-25 B
C654	87-010-178-080		C-CAP,S 1000P-50 B
C657	87-010-196-080		C-CAP,S 0.1-25 F
C658	87-010-263-040		CAP,E 100-10
C659	87-010-374-040		CAP,E 47-10
C660	87-010-196-080		C-CAP,S 0.1-25 F
C661	87-010-177-080		C-CAP,S 820P-50 SL
C662	87-010-179-080		C-CAP,S 1200P-50 B
C663	87-010-544-040		CAP,E 0.1-50 SME
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
LED420	87-070-201-080		LED,SLP9118C-51-S-T1
LED421	87-070-201-080		LED,SLP9118C-51-S-T1
LED422	87-070-201-080		LED,SLP9118C-51-S-T1
LED423	87-070-201-080		LED,SLP9118C-51-S-T1
LED424	87-070-278-010		LED,SLZ-738A-24-S
LED425	87-070-290-010		LED,SLZ936C-30-S
LED426	87-070-278-010		LED,SLZ-738A-24-S
LED427	87-070-278-010		LED,SLZ-738A-24-S
LED428	87-070-290-010		LED,SLZ936C-30-S
LED429	87-070-278-010		LED,SLZ-738A-24-S
S301	87-036-215-080		SW,TACT EVQ-21404M
S302	87-036-215-080		SW,TACT EVQ-21404M
S303	87-036-215-080		SW,TACT EVQ-21404M
S304	87-036-215-080		SW,TACT EVQ-21404M
S305	87-036-215-080		SW,TACT EVQ-21404M
S306	87-036-215-080		SW,TACT EVQ-21404M <1GHE,1GHR,1GHK,1GU,HD>
S307	87-036-215-080		SW,TACT EVQ-21404M <1GHE,1GHR,1GHK,1GU,HD>
S321	87-036-215-080		SW,TACT EVQ-21404M
S322	87-036-215-080		SW,TACT EVQ-21404M
S323	87-036-215-080		SW,TACT EVQ-21404M
S324	87-036-215-080		SW,TACT EVQ-21404M
S325	87-036-215-080		SW,TACT EVQ-21404M
S326	87-036-215-080		SW,TACT EVQ-21404M
S327	87-036-215-080		SW,TACT EVQ-21404M
S328	87-036-215-080		SW,TACT EVQ-21404M
S329	87-036-215-080		SW,TACT EVQ-21404M
S330	87-036-215-080		SW,TACT EVQ-21404M
S331	87-036-215-080		SW,TACT EVQ-21404M
S332	87-036-215-080		SW,TACT EVQ-21404M
S341	87-036-215-080		SW,TACT EVQ-21404M
S342	87-036-215-080		SW,TACT EVQ-21404M
S343	87-036-215-080		SW,TACT EVQ-21404M
S344	87-036-215-080		SW,TACT EVQ-21404M
S345	87-036-215-080		SW,TACT EVQ-21404M
S346	87-036-215-080		SW,TACT EVQ-21404M
S347	87-036-215-080		SW,TACT EVQ-21404M
VR601	82-NK7-616-010		VR,10KB RK11K1130
VR602	82-NK7-615-010		VR,10KA RK11K1130
W130	82-NF7-647-010		CABLE,FFC,13P-1.25 <50HE,50HR,50HK,LH,U,C,G>
W130	82-NF5-651-010		CABLE,FFC,14P-1.25 <1GHE,1GHR,1GHK,1GU,HD>
W501	85-NF5-615-010		CABLE,FFC 15P-1.25
X201	87-030-376-080		VIB,CER CSA5.76MG200
MVR C.B			
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
KEY C.B			
S349	87-036-215-080		SW,TACT EVQ-21404M
S350	87-036-215-080		SW,TACT EVQ-21404M
S351	87-036-215-080		SW,TACT EVQ-21404M
S352	87-036-215-080		SW,TACT EVQ-21404M
S353	87-036-215-080		SW,TACT EVQ-21404M
W301	83-NF8-613-010		F-CABLE,2P-2.0 KEY
AC2 C.B			
R101	87-022-050-080		RES,M/F 0.22-1W
R102	87-022-050-080		RES,M/F 0.22-1W
PT C.B			
⚠	82-304-743-010		TERMINAL,1P
⚠	87-033-213-010		CLAMP,FUSE<C>
⚠	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>
⚠F101	87-035-414-010		FUSE,T2A 250V UL<C>
⚠PT101	85-NF6-611-010		PT,5NF-6 C<C>
⚠PT101	85-NF6-609-010		PT,5NF-6 HD<HD>
⚠PT101	85-NF6-604-010		PT,5NF-6 HR <1GHE,1GHK,50HE,50HK,LH,G>
⚠PT101	85-NF6-610-010		PT,5NF-6 HR<1GHR,50HR>
⚠PT101	85-NF6-606-010		PT,5NF-6 U<1GU,U>
⚠SW101	87-036-388-010		SW,SL 1-2-2<HD>
⚠SW101	87-036-387-010		SW,SL 1-2-3<EXCEPT 1GU,HD,U,C,G>
DECK C.B			
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY,27
SOL2	82-ZM1-618-310		SOL ASSY,27
SW1	87-036-378-010		SW,PUSH 1-1-1 SH2
SW2	87-036-378-010		SW,PUSH 1-1-1 SH2
SW3	87-036-378-010		SW,PUSH 1-1-1 SH2
SW4	87-036-378-010		SW,PUSH 1-1-1 SH2
SW5	87-036-378-010		SW,PUSH 1-1-1 SH2
SW6	87-036-378-010		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		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>
C959	87-010-544-089		CAP,E 0.1-50 <EXCEPT 1GU,HD,LH,U,C,G>
C961	87-014-051-089		CAP,PP 560P-100 J <EXCEPT 1GU,HD,LH,U,C,G>
C962	87-014-073-089		CAP,PP 4700P-100 J <EXCEPT 1GU,HD,LH,U,C,G>
C963	87-010-312-089		C-CAP,S 15P-50 CH <EXCEPT 1GU,HD,LH,U,C,G>
C964	87-010-314-089		C-CAP,S 22P-50 CH <EXCEPT 1GU,HD,LH,U,C,G>
C965	87-010-186-089		C-CAP,S 4700P-50 B <EXCEPT 1GU,HD,LH,U,C,G>
C966	87-010-263-089		CAP,E 100-10 <EXCEPT 1GU,HD,LH,U,C,G>
C970	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>
C971	87-010-197-089		C-CAP,S 0.01-25 B <EXCEPT 1GU,HD,LH,U,C,G>
C974	87-010-196-089		C-CAP,S 0.1-25 F <EXCEPT 1GU,HD,LH,U,C,G>
C976	87-010-400-089		CAP,E 0.47-50 SME <EXCEPT 1GU,HD,LH,U,C,G>
D958	87-017-568-089		VARI-CAP,SVC 342 M/L <EXCEPT 1GU,HD,LH,U,C,G>
L951	87-006-316-019		COIL,ANT MW(SGB) <EXCEPT 1GU,HD,LH,U,C,G>
L952	87-006-255-019		COIL,ANT SW1(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
L953	87-006-256-019		COIL,ANT SW2(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
L954	87-005-372-089		COIL,S 1MMH TAPG <EXCEPT 1GU,HD,LH,U,C,G>
L955	87-005-372-089		COIL,S 1MMH TAPG <EXCEPT 1GU,HD,LH,U,C,G>
L956	87-007-326-019		COIL,OSC MW(SG) <EXCEPT 1GU,HD,LH,U,C,G>
L957	87-007-327-019		COIL,OSC SW1(SG) <EXCEPT 1GU,HD,LH,U,C,G>
L958	87-007-332-019		COIL,OSC SW2(SG7) <EXCEPT 1GU,HD,LH,U,C,G>
TC951	87-011-220-089		CAP,TRIMMER 20P VCT <EXCEPT 1GU,HD,LH,U,C,G>
TC952	87-011-221-089		TRIMMER,30P VCT51 <EXCEPT 1GU,HD,LH,U,C,G>
TC953	87-011-221-089		TRIMMER,30P VCT51 <EXCEPT 1GU,HD,LH,U,C,G>

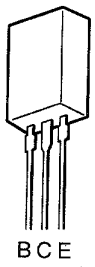
TRANSISTOR ILLUSTRATION

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

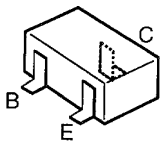
2SC1740
DTA114YS
DTA144ES



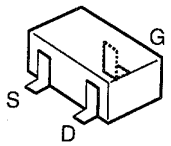
2SK365



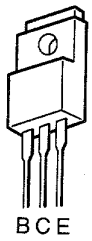
2SD2005



2SA1162 DTA143EK
2SC2712 DTA144EK
2SC2714 DTA144WK
2SC3326 DTC114EK
DTC114YK



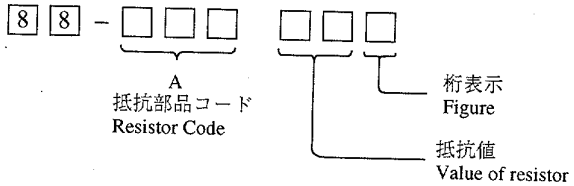
2SK543



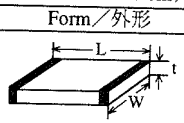
2SB1370

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

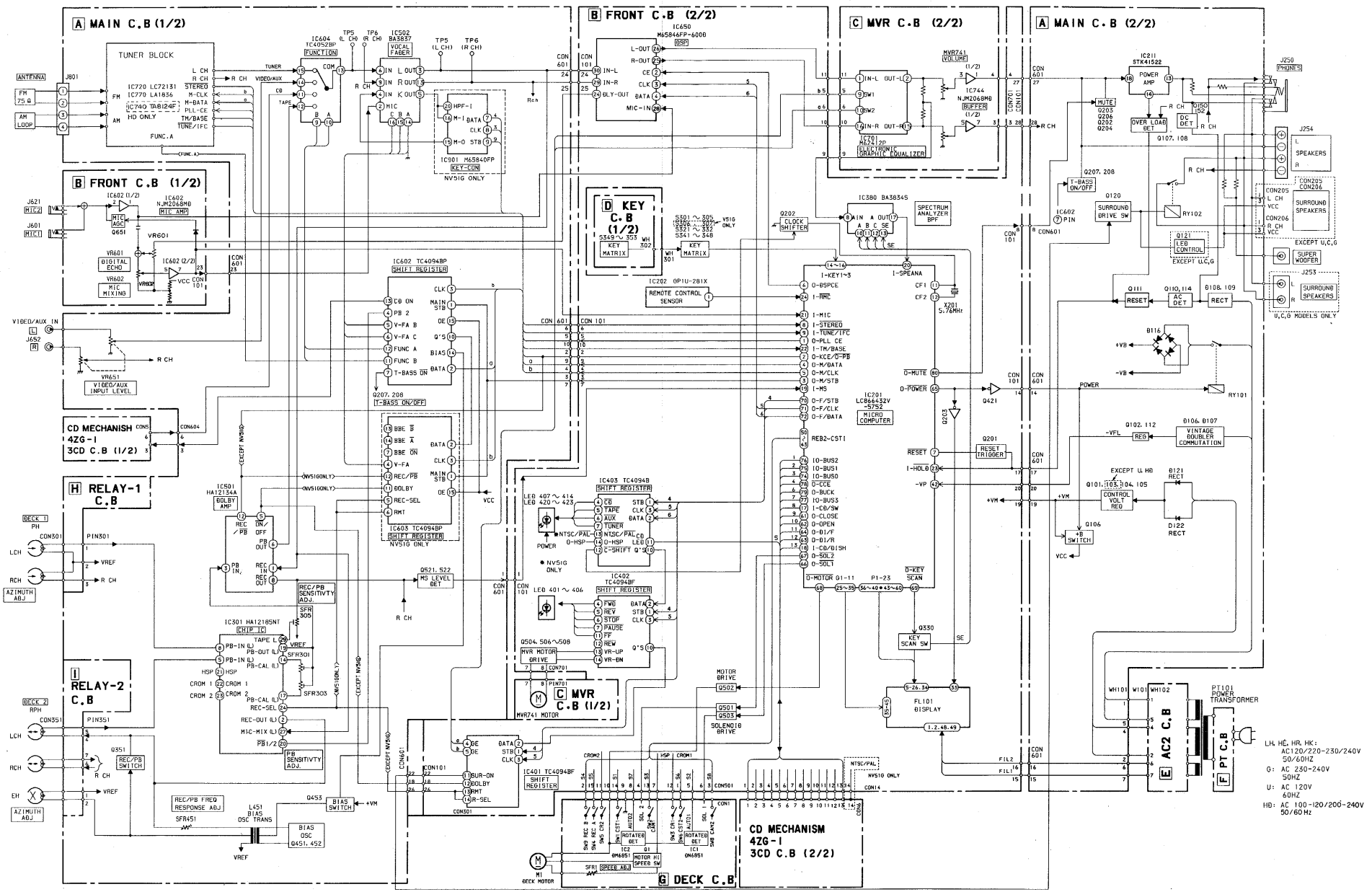
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coading



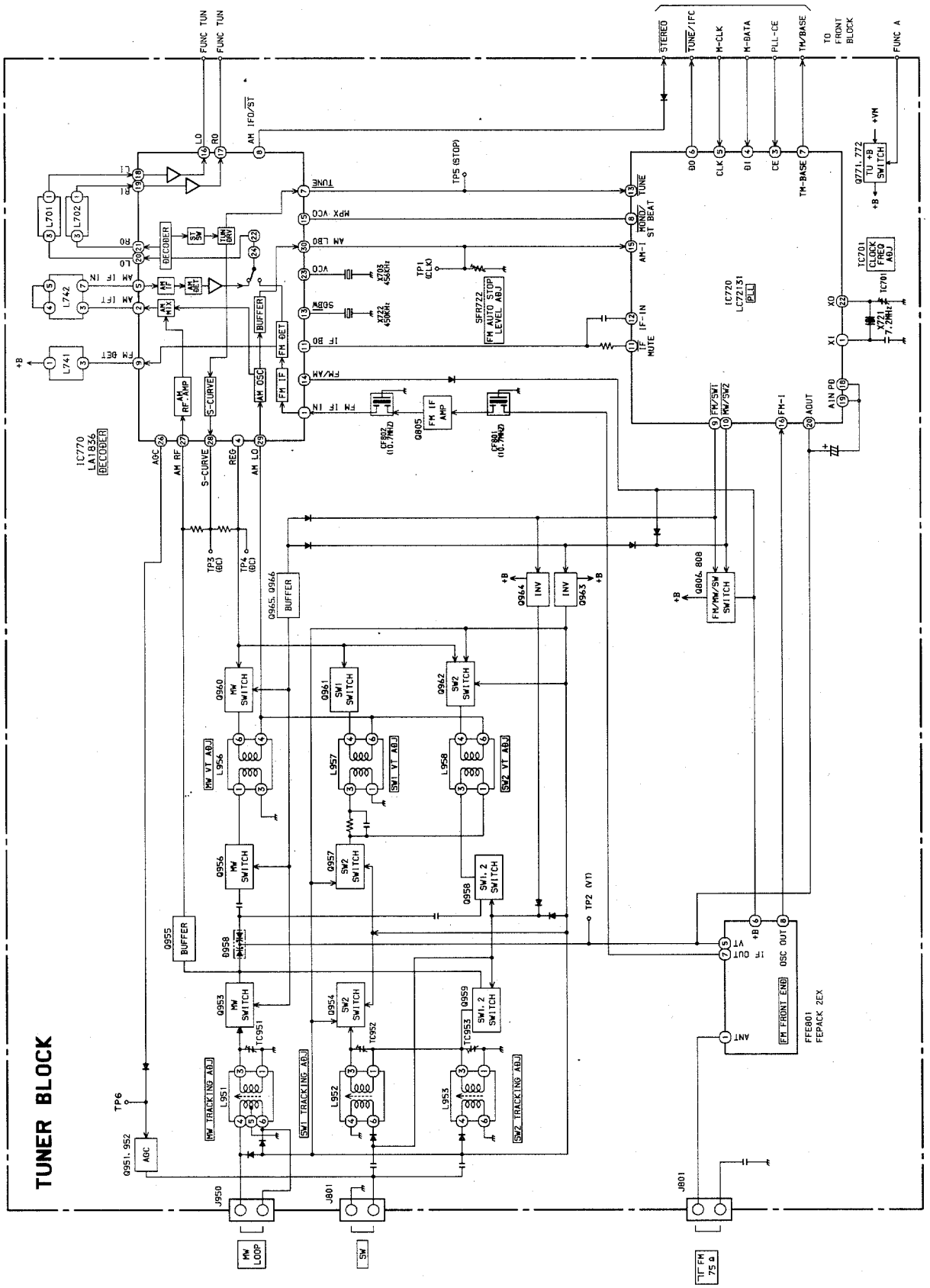
チップ抵抗
Chip resistor

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

BLOCK DIAGRAM-1 (MAIN／FRONT)

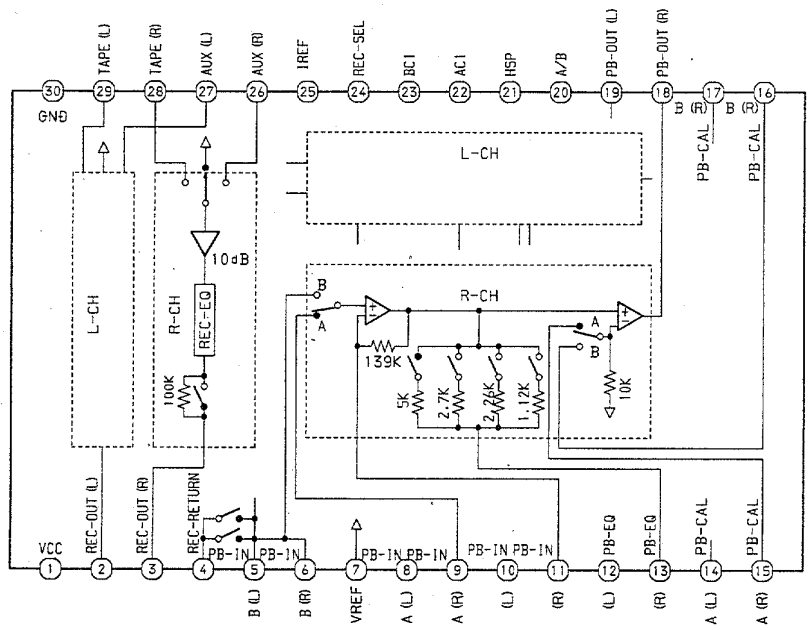


BLOCK DIAGRAM-2 (TUNER: HE, HR, HK)

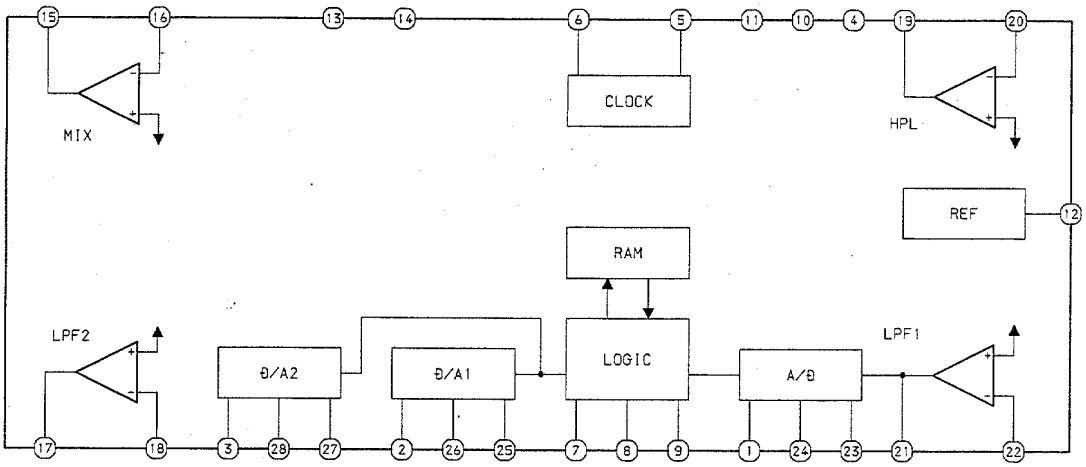


IC BLOCK DIAGRAM-1

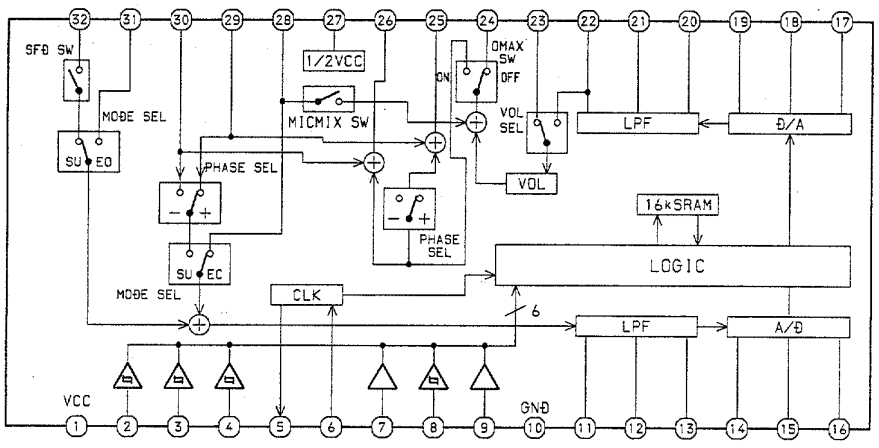
IC, HA12185NT



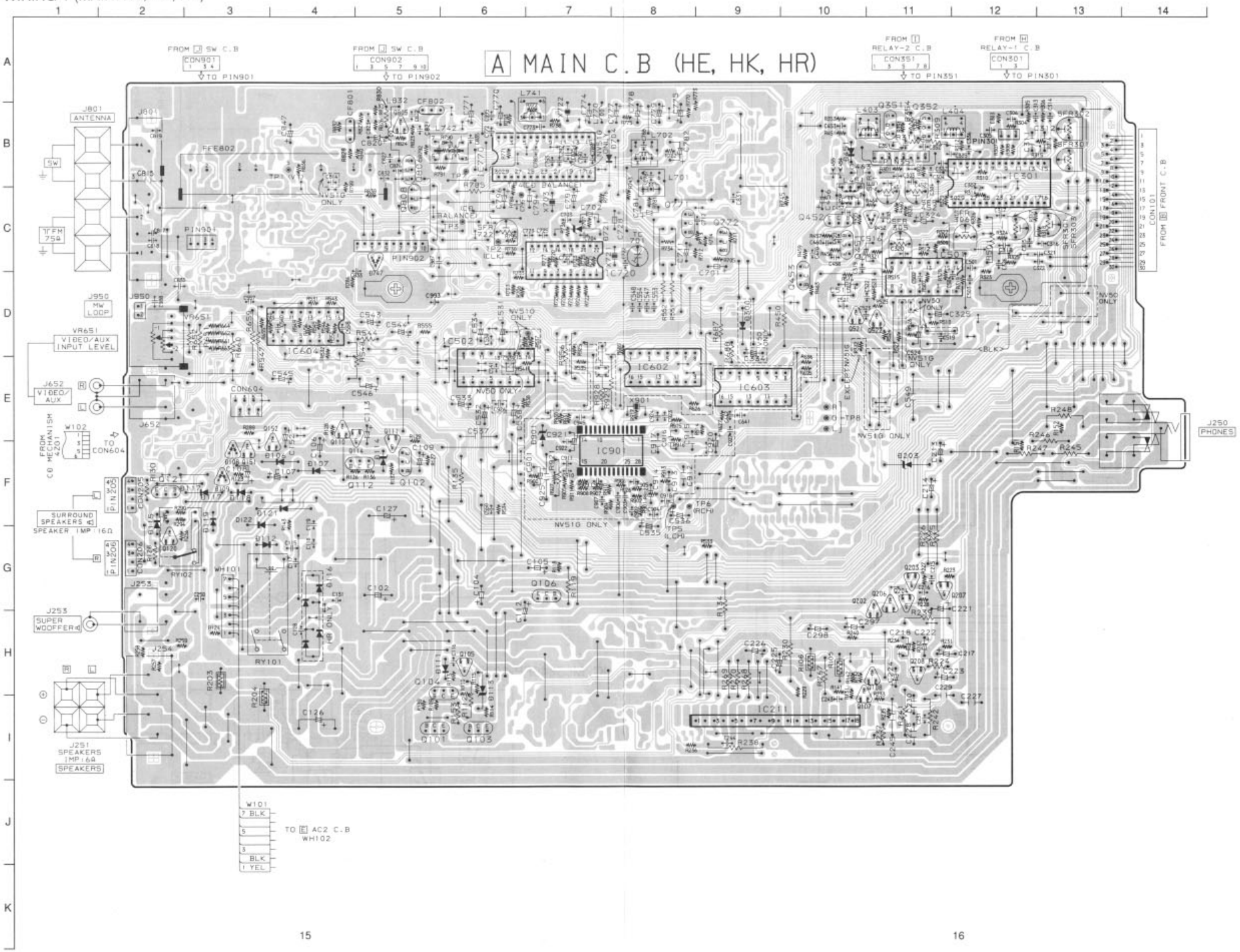
IC, M65840FP



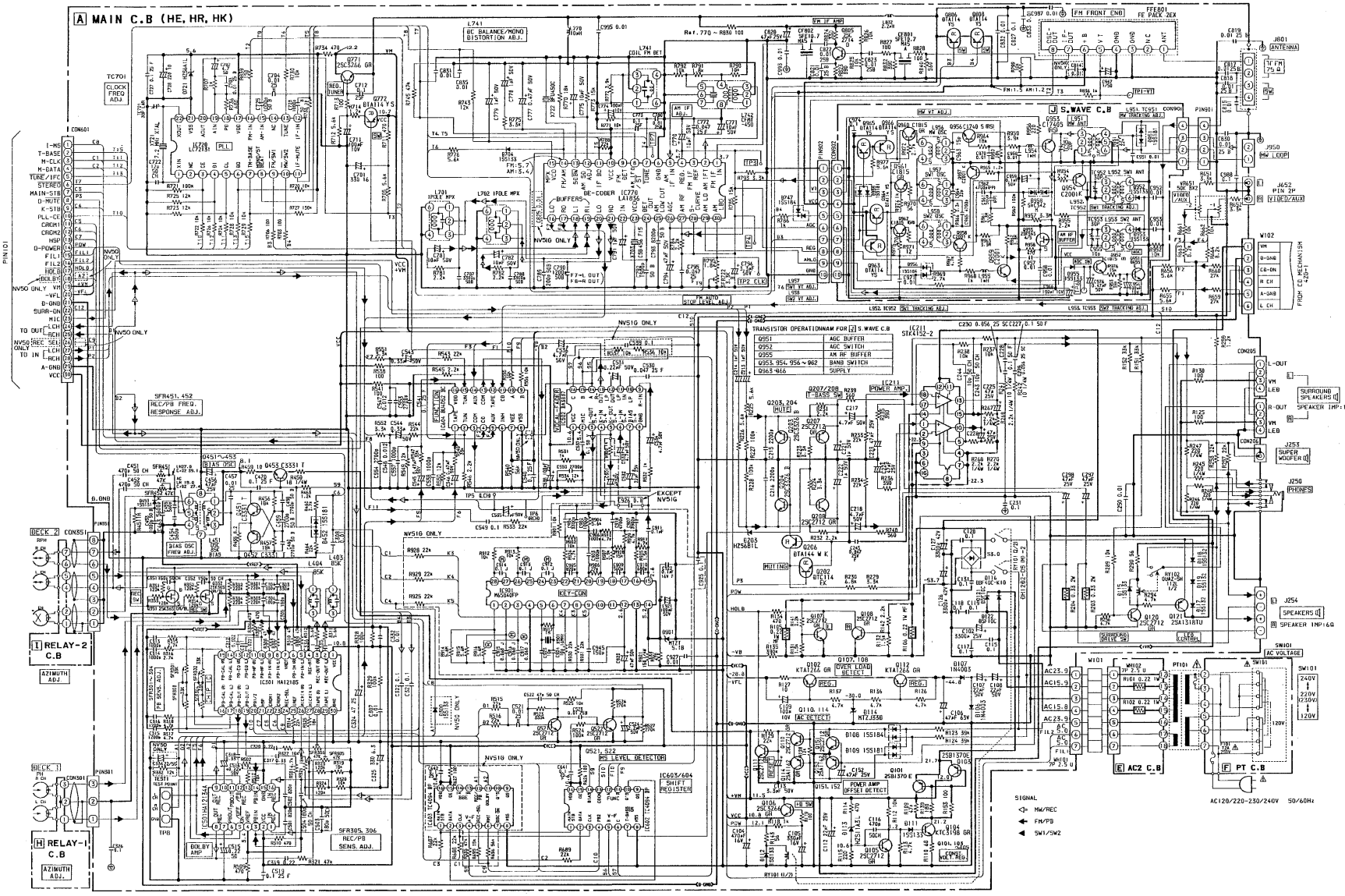
IC, M65846FP-600D



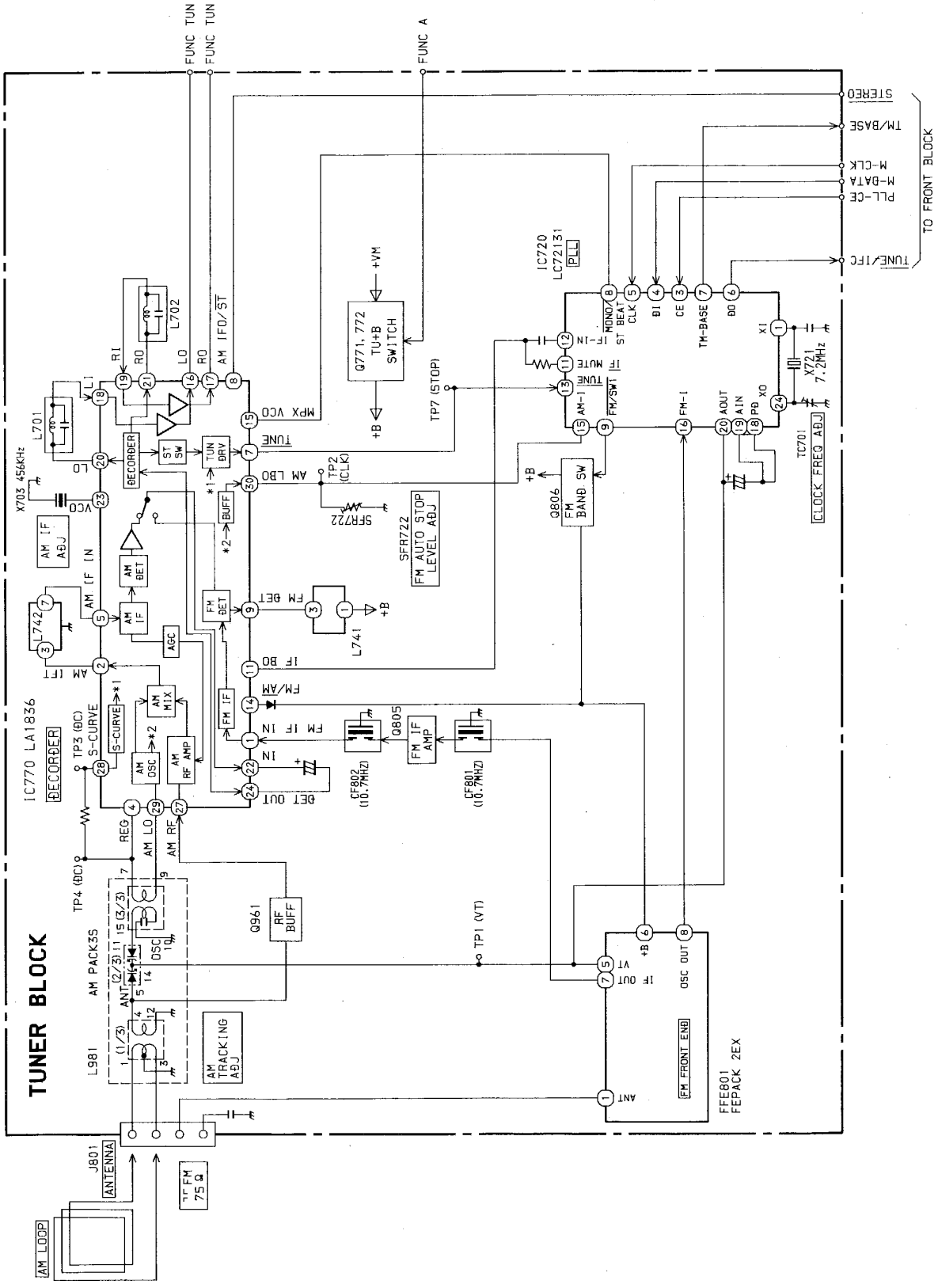
WIRING-1 (MAIN: HE, HR, HK)



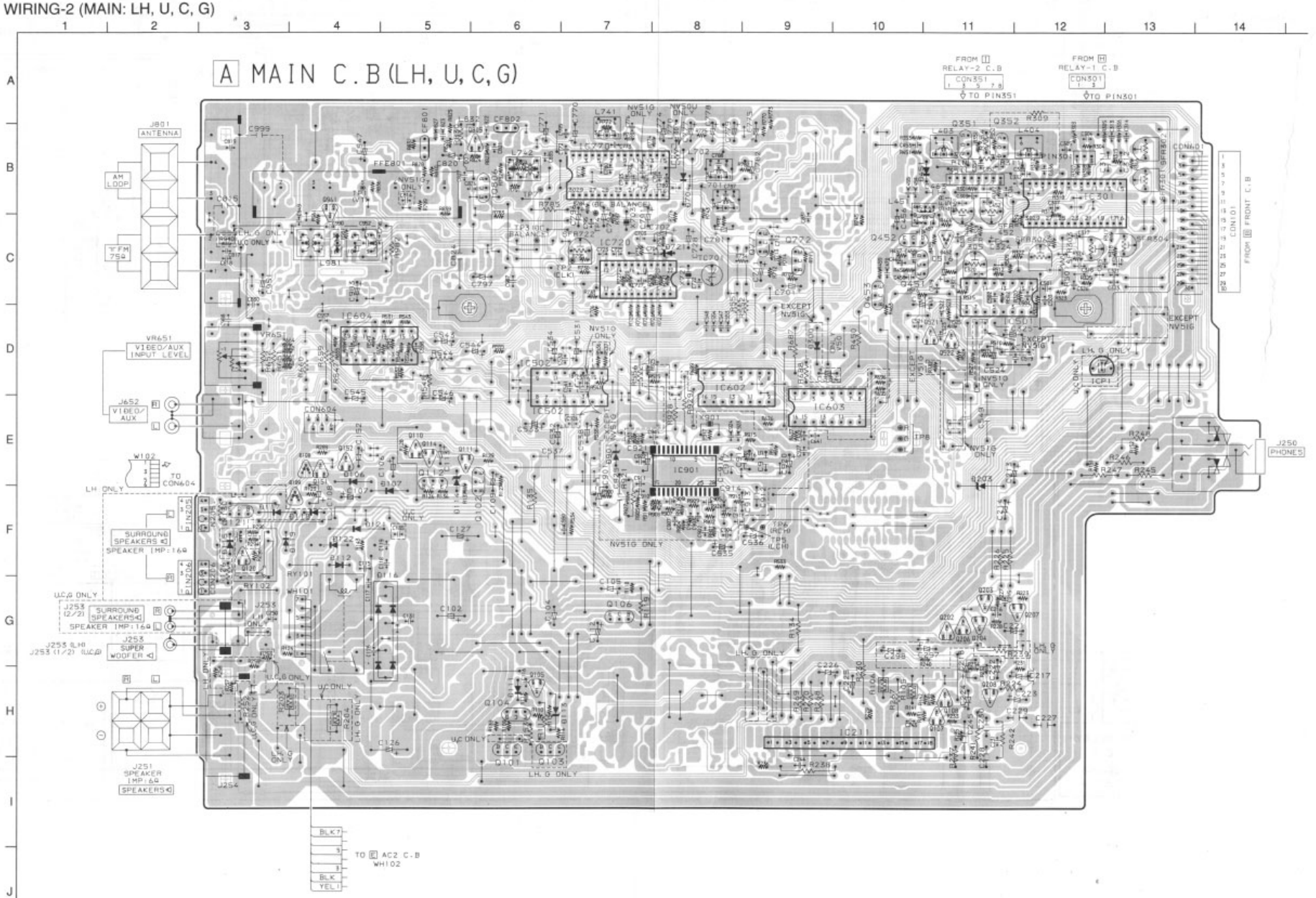
SCHEMATIC DIAGRAM-1 (MAIN: HE, HR, HK)



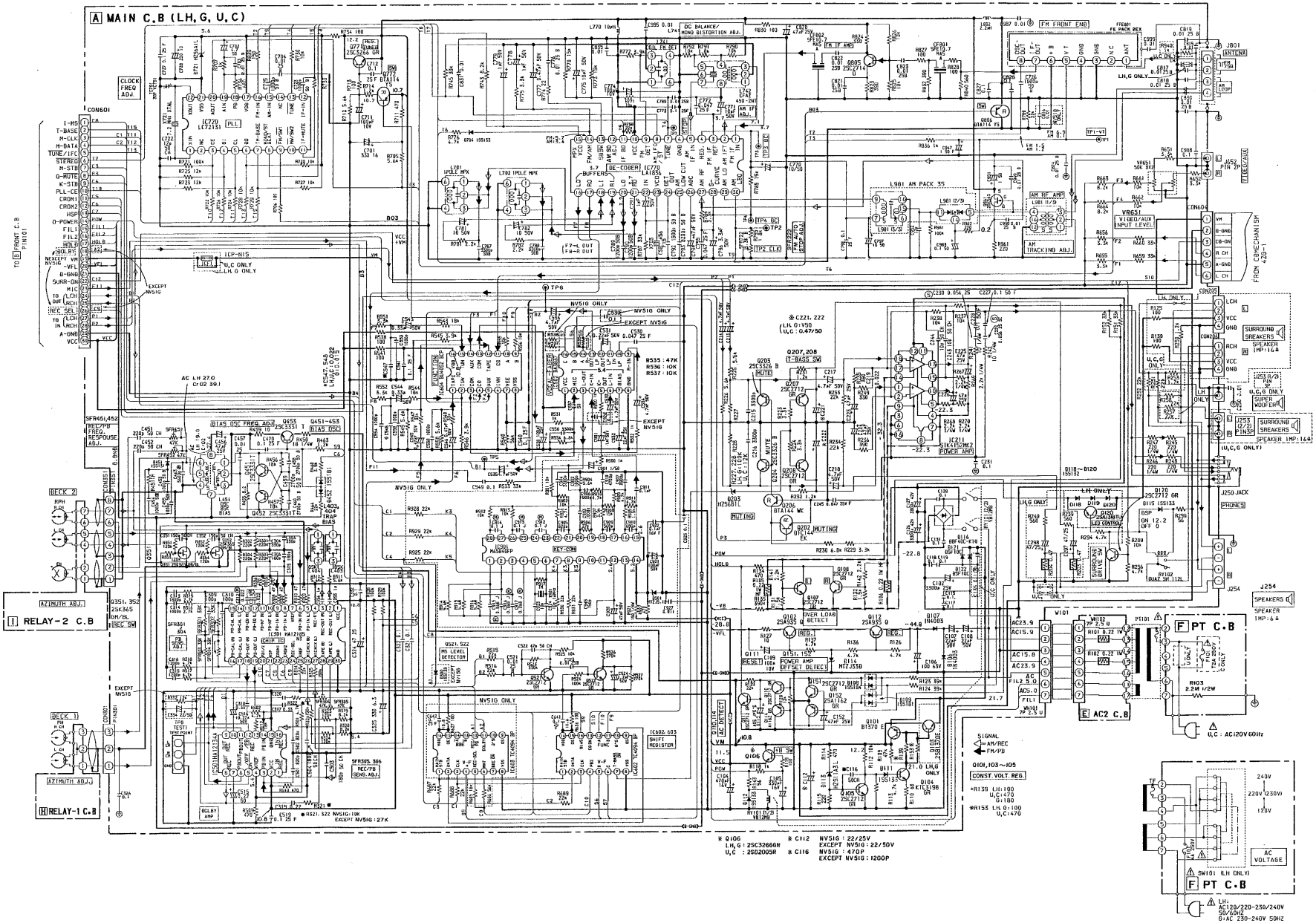
BLOCK DIAGRAM-3 (TUNER: LH, U, C, G)



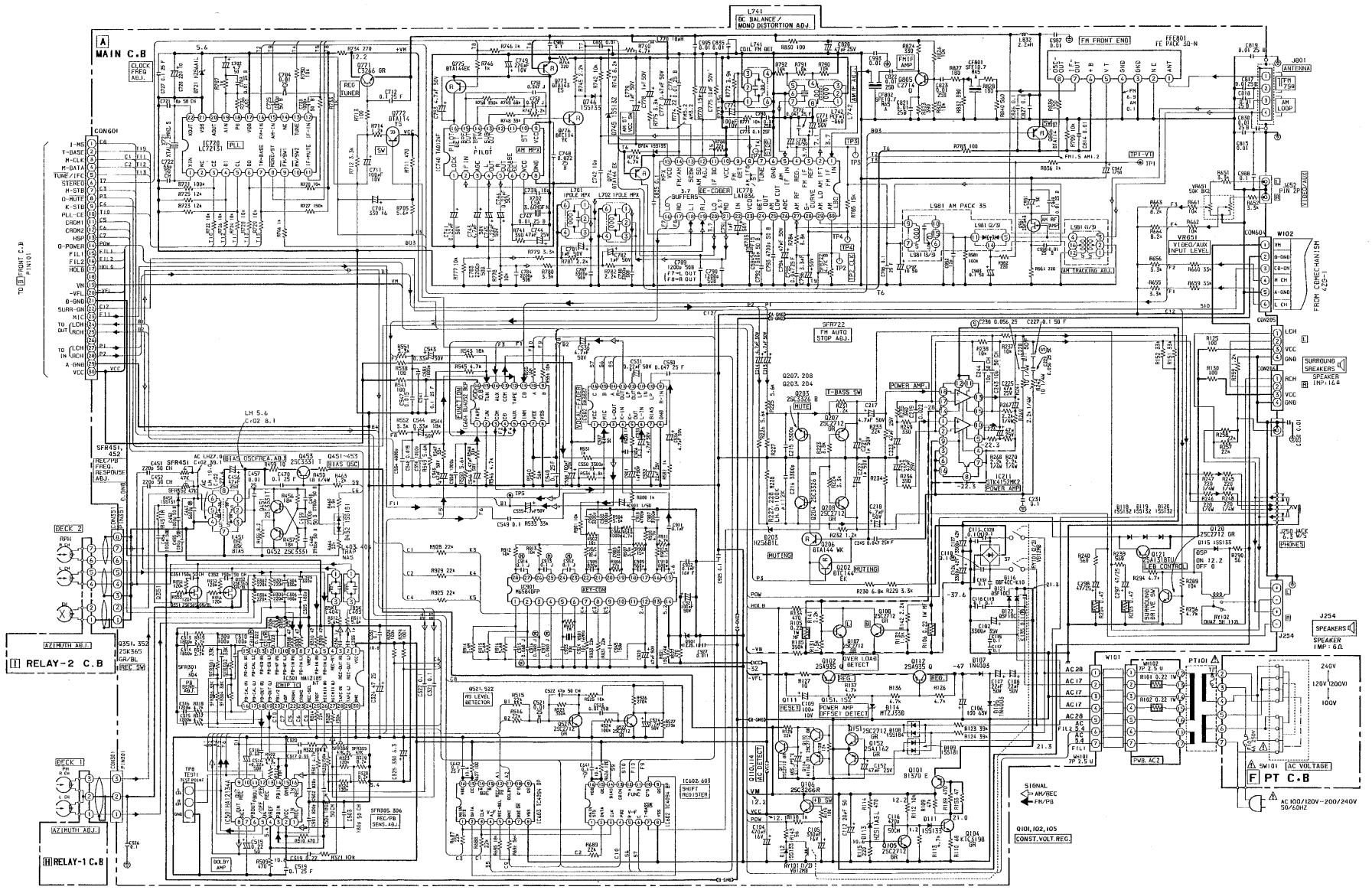
WIRING-2 (MAIN: LH, U, C, G)



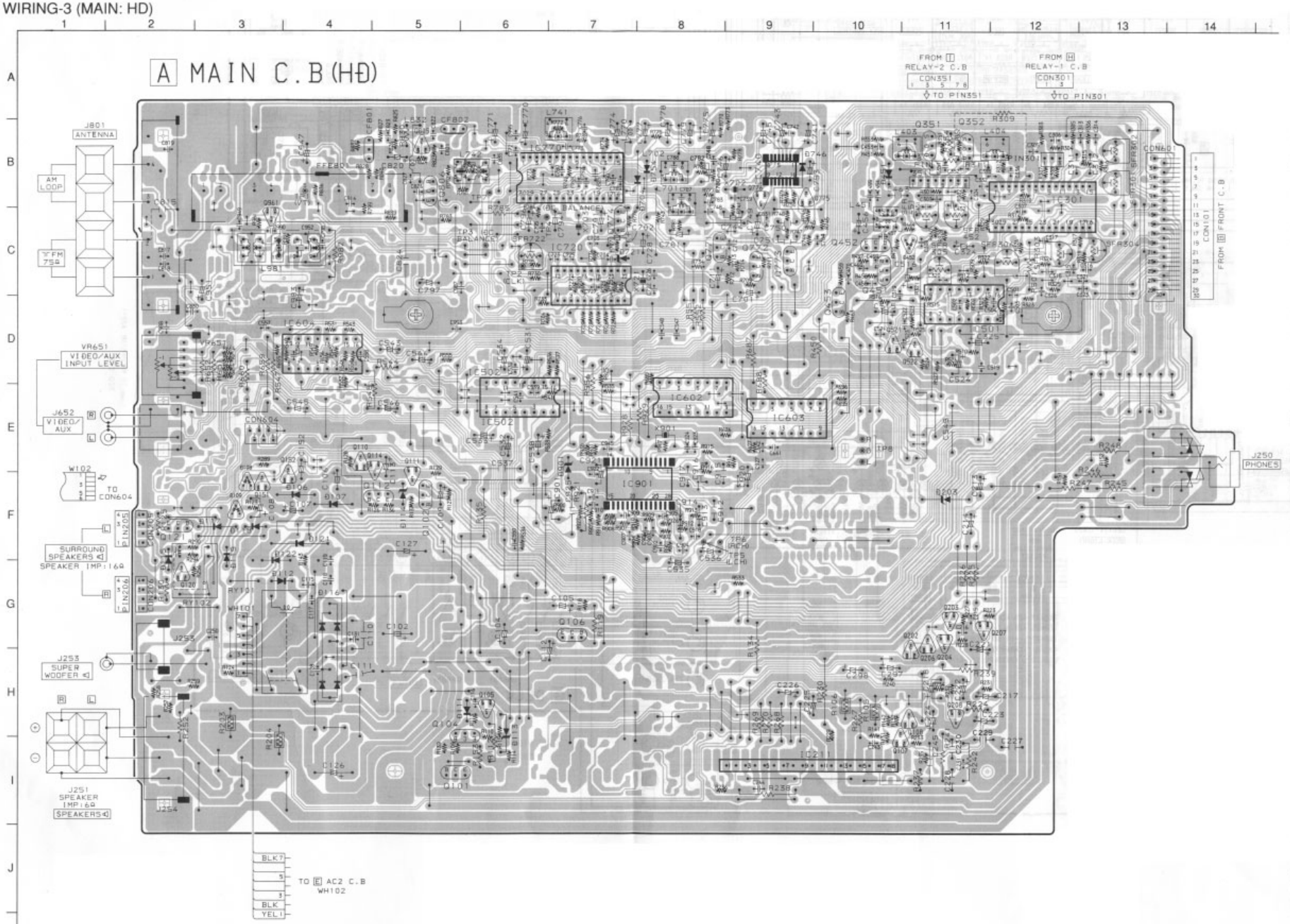
SCHEMATIC DIAGRAM-2 (MAIN: LH, U, C, G)



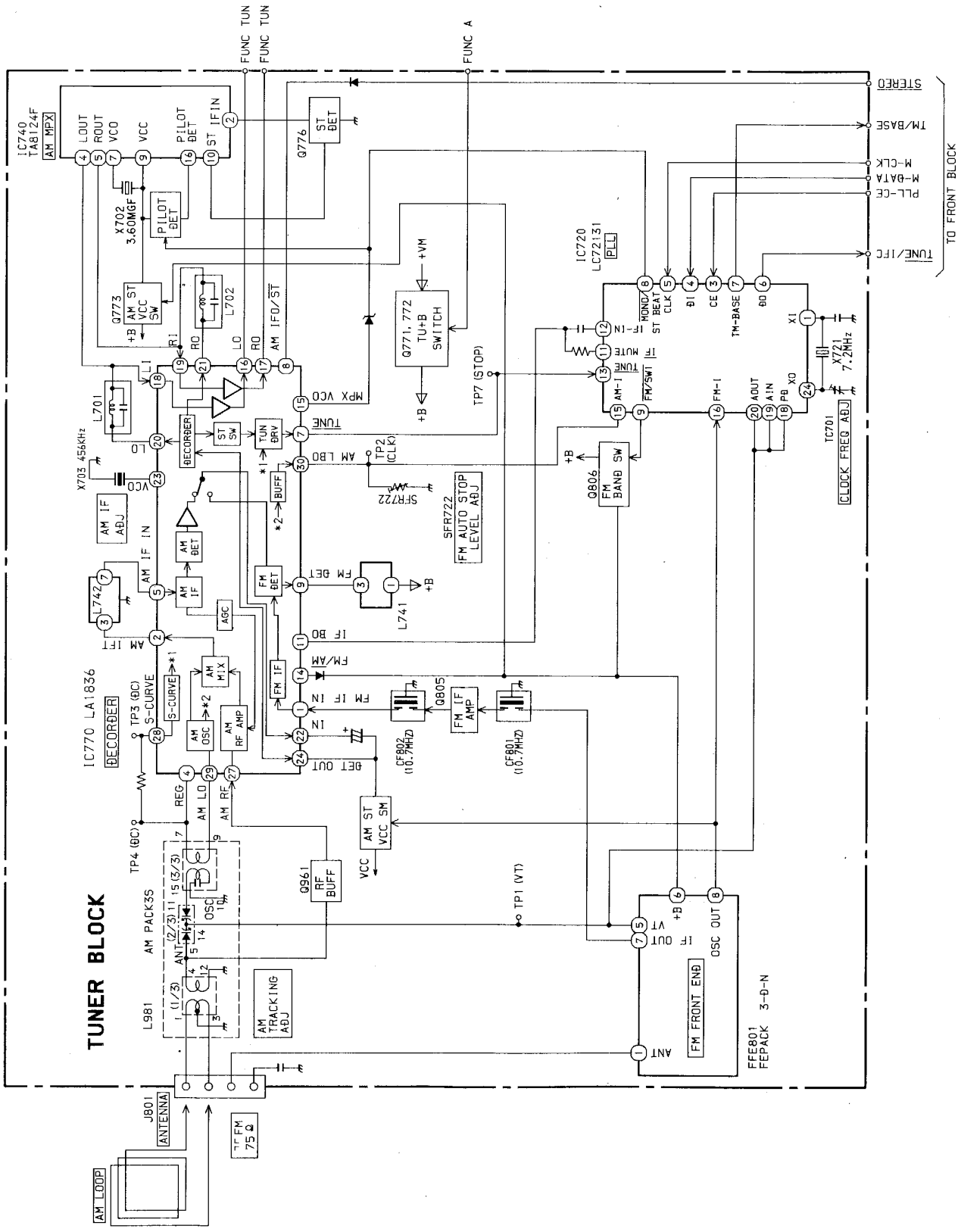
SCHEMATIC DIAGRAM-3 (MAIN: HD)



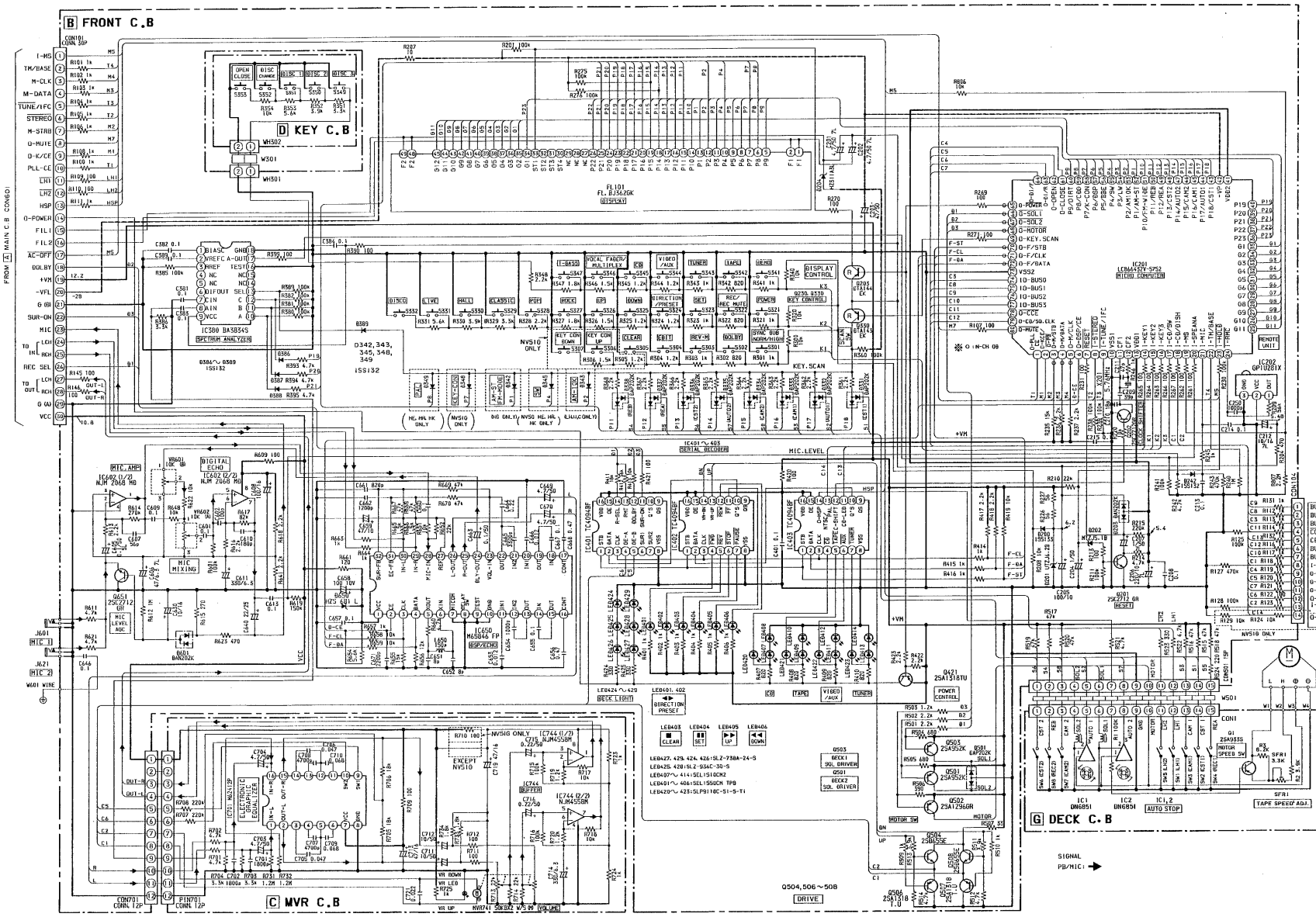
WIRING-3 (MAIN: HD)



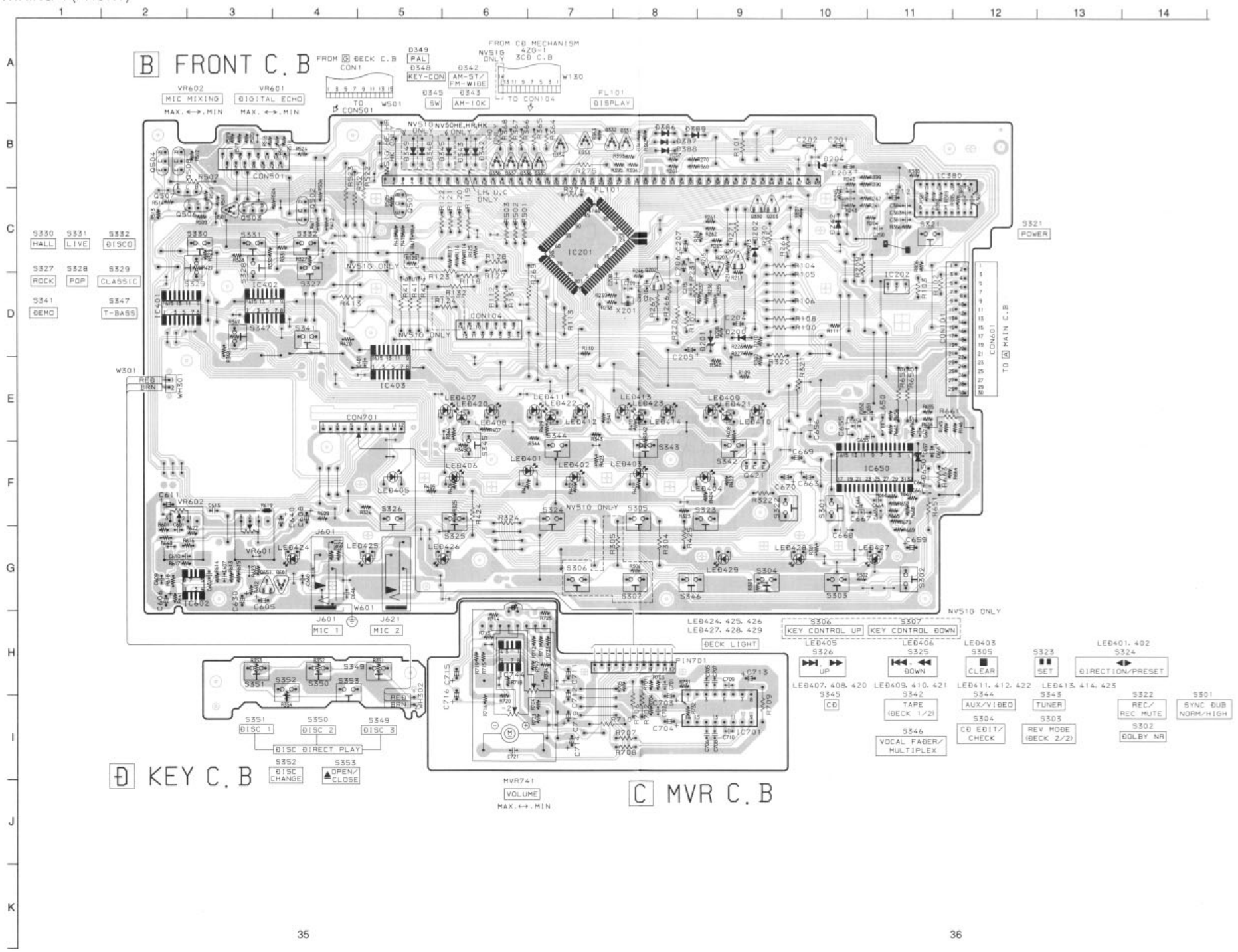
BLOCK DIAGRAM-4 (TUNER: HD)

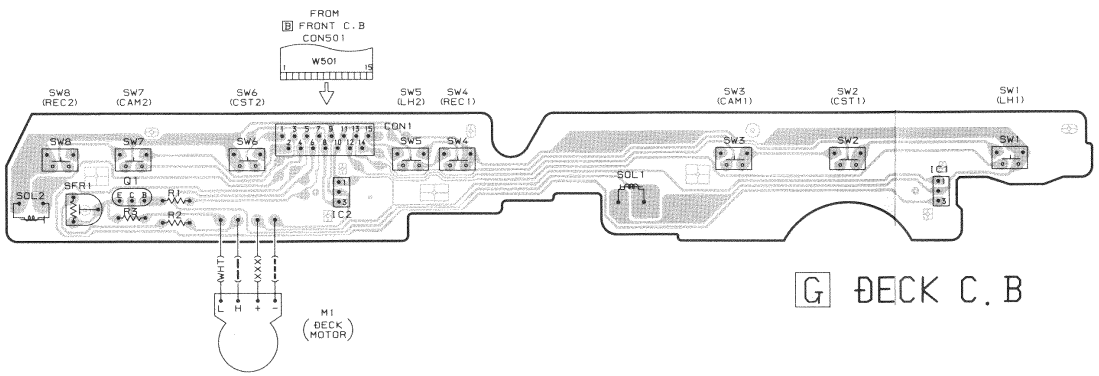


SCHEMATIC DIAGRAM-4 (FRONT)

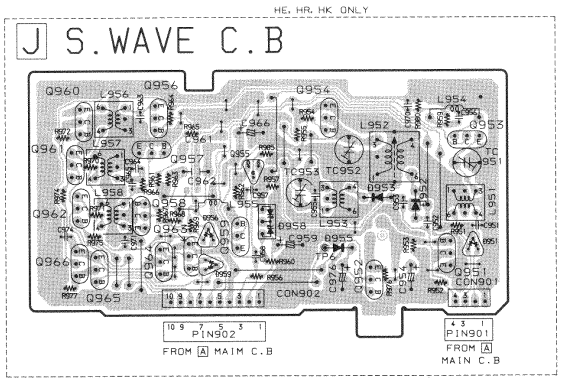


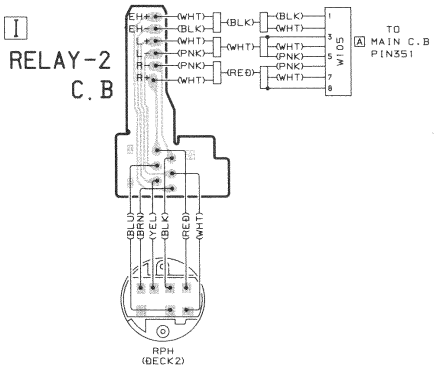
WIRING-4 (FRONT)

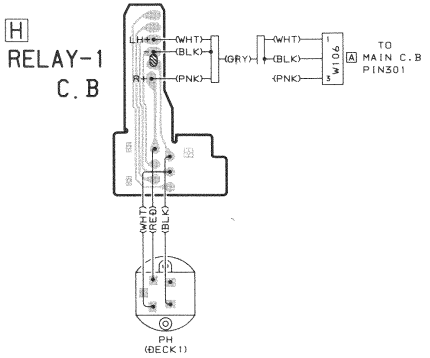


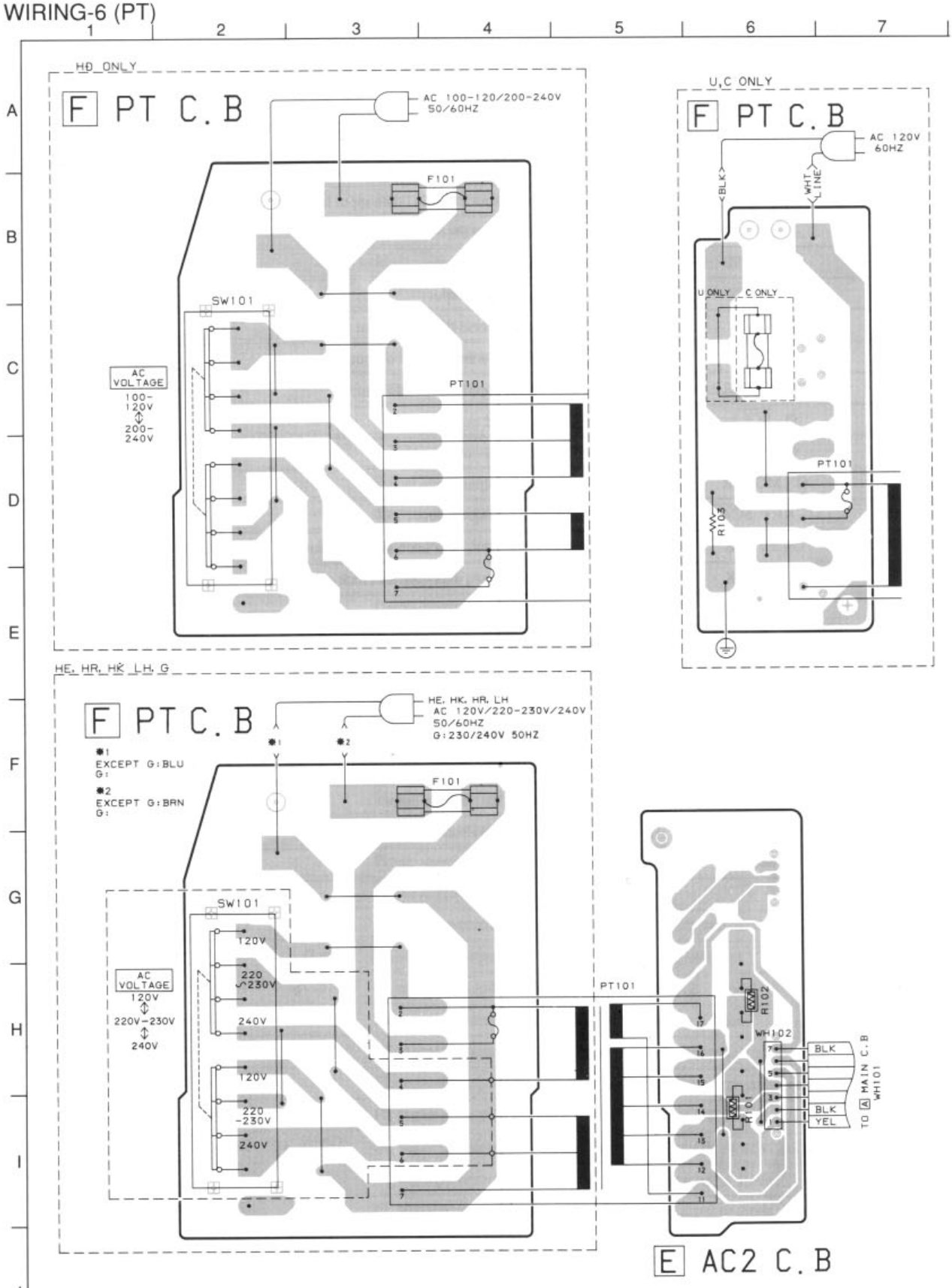

FROM
B FRONT C.B
CON501
W501
SW8 (REC2)
SW7 (CAM2)
SW6 (CST2)
SW5 (LH2)
SW4 (REC1)
SW3 (CAM1)
SW2 (CST1)
SW1 (LH1)
CON1
SOL2
SFR1
QT
R1
R2
IC2
SOL1
IC1
WHT
M1
DECK MOTOR

G DECK C.B


HE, HR, HK ONLY
J S.WAVE C.B
CON902
PIN902
FROM A MAIM C.B
PIN901
FROM A MAIN C.B

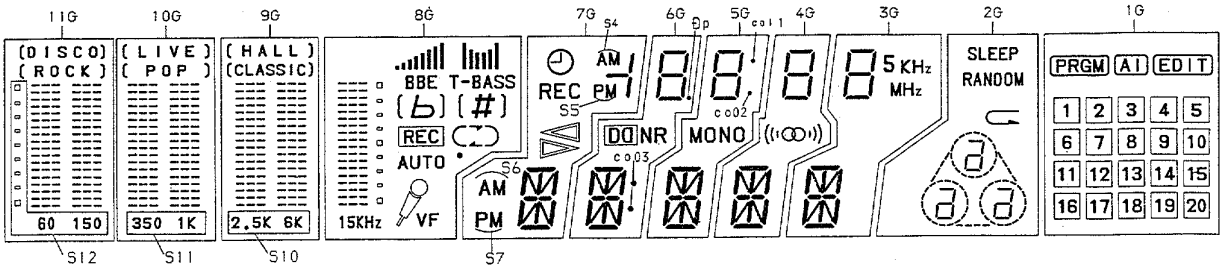

I
RELAY-2
C.B
EH+
EH-
L+
L-
R+
R-
W105
A MAIN C.B PIN351
RPH (DECK2)

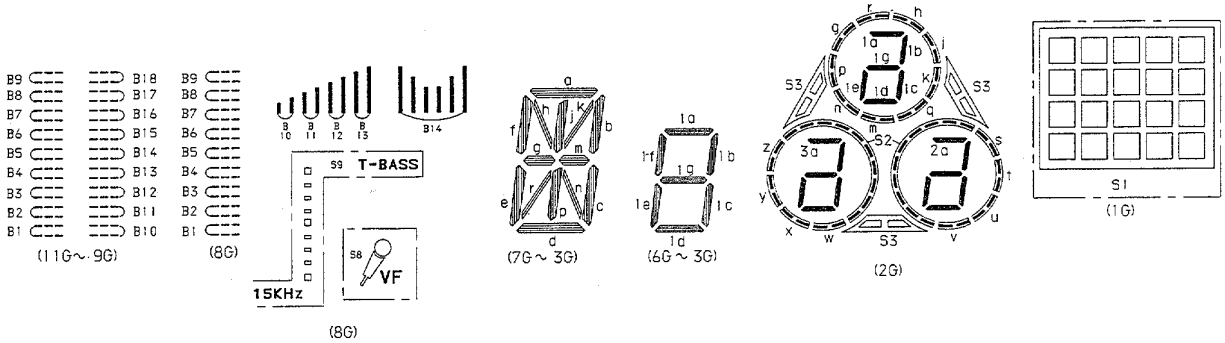

H
RELAY-1
C.B
LH+
R+
W104
A MAIN C.B PIN301
PH (DECK1)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
K
HD ONLY
F PT C.B
AC 100-120/200-240V
50/60HZ
F101
SW101
AC VOLTAGE
100-120V
200-240V
PT101
U,C ONLY
F PT C.B
AC 120V
60HZ
BLK
WHT LINE
U ONLY
C ONLY
PT101
R103
HE, HR, HK, LH, G
F PT C.B
HE, HK, HR, LH
AC 120V/220-230V/240V
50/60HZ
G:230/240V 50HZ
*1
EXCEPT G:BLU
G:
*2
EXCEPT G:BRN
G:
F101
SW101
120V
220 ~230V
240V
120V
220 -230V
240V
AC VOLTAGE
120V
220V-230V
240V
PT101
R102
WH102
R101
BLK
BLK
YEL
TO A MAIN C.B
WH101
E AC2 C.B

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	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	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	(((◎)))	5	1e	6
P16	B8	B8	B8	B8	▷	Dp1	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	—	—	—	(♭)	/	1f	1f	1f	1f	⊂	EDIT
P22	DISCO	LIVE	HALL	♭ ♯	◴	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	$\overline{\text{RESET}}$	I	Reset input .
8	I - $\overline{\text{STEREO}}$	I	Tuner stereo detected input .
9	I - $\overline{\text{TUNE}}$ / $\overline{\text{IFC}}$	I	Tuner $\overline{\text{SD}}$ 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 - $\overline{\text{HOLD}}$	I	Power failure deteched input. "L" to stop clock and maintain memory .
24	I - $\overline{\text{RMC}}$	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 / $\overline{\text{CST1}}$	O / I	FL segment output P18, DECK1 cassette detect switch data input .
44	P17 / $\overline{\text{AUTO1}}$	O / I	FL segment output P17, DECK1 auto stop signal input .
45	P16 / $\overline{\text{CAM1}}$	O / I	FL segment output P16, DECK1 cam switch data input .
46	P15 / $\overline{\text{CAM2}}$	O / I	FL segment output P15, DECK2 cam switch data input .
47	P14 / $\overline{\text{AUTO2}}$	O / I	FL segment output P14, DECK2 auto stop data input .
48	P13 / $\overline{\text{CST2}}$	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 - $\overline{\text{POWER}}$	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 - $\overline{\text{MOTOR}}$	O	DECK motor output .
69	O - $\overline{\text{KEY. SCAN}}$	O	Switch scan timing output .
70	O - F / STB	O	Front shift register , data latch strobe output .
71	O - F / CLK	O	Front shift register , data transfer clock output .
72	O - F / DATA	O	Front shift register , data output .
73	VSS2	-	GND .
74	IO - 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 / SQ.CLK	O	CD IC control data bus clock output .
80	O - $\overline{\text{MUTE}}$	O	System mute output .

IC, LC72131

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XI</td><td>–</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XO</td><td>–</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866432V–5751) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866432V–5751).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$/ST BEAT</td><td>O</td><td>Outputs "H" when MONO/ST BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM/SW1}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="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></td></tr>
<tr><td>10</td><td>$\overline{\text{MW/SW2}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="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></td></tr>
<tr><td>11</td><td>$\overline{\text{IF-MUTE}}$</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>AM-I</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-I</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">Nch MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

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	Differencial 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.

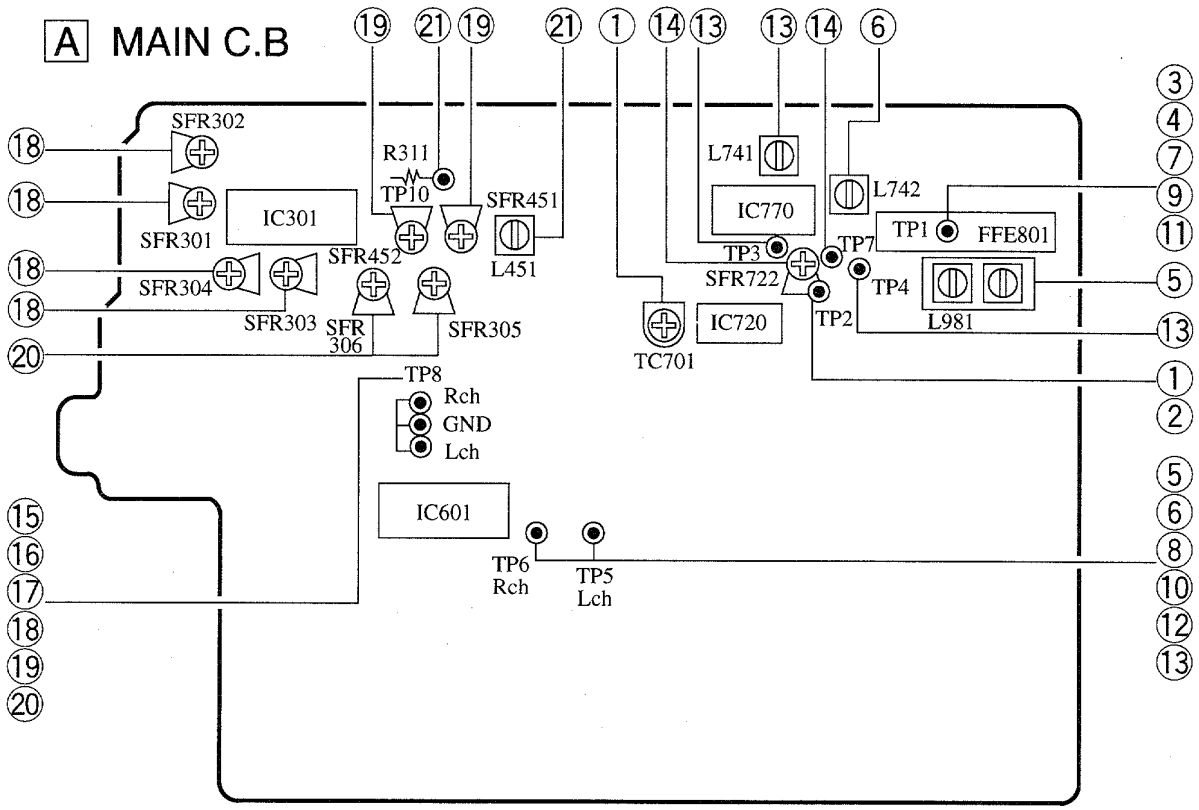
Table – 1. Filter Select Table

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

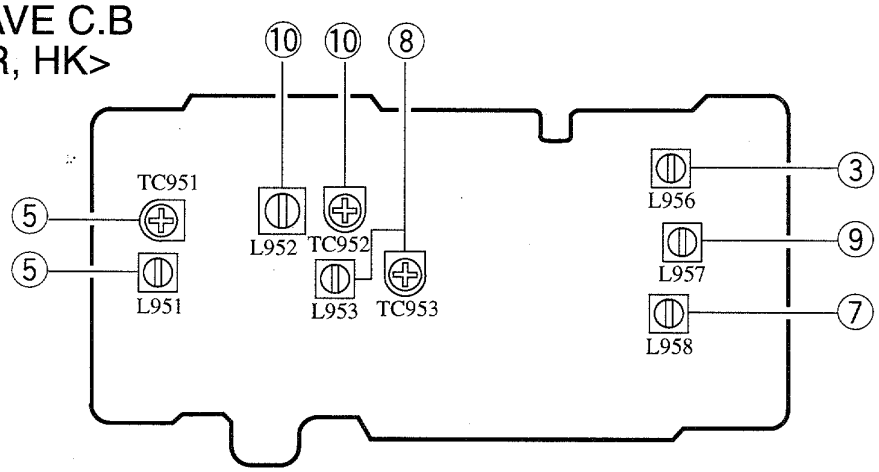
IC, M65840FP (CX-NV51G)

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	

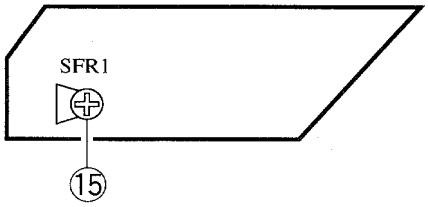
A MAIN C.B



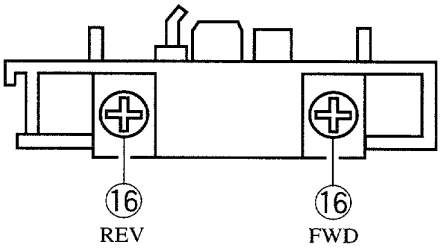
J S·WAVE C.B <HE, HR, HK>



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 2160kHz±0.01kHz (HE, HR, HK, LH, U, C), 2052kHz±0.01 kHz (G).

2. Clock Frequency check <HD>
   Settings:
   - Test point: TP2

   Method: Set to MW 1602kHz and check that the test point is 2052kHz±0.04kHz.

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 8.5V±0.05V.
   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 7.0V±1.0V (LH, U, C), 6.8V±1.0V (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 8.0V±0.05V.

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 7.7V±0.05V.

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±6dB.

    <HD>
    Settings:
    - Test point: TP5, TP6

    Method: Set to FM 83.0MHz and check that the test point is 2±6dB.

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 0V±0.04V.
    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 3000Hz±5Hz.

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 ±2dB.

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 0dB±0.5dB 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 21mV±0.5dB.

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 Sensitiviy:	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 Sensitiviy:	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

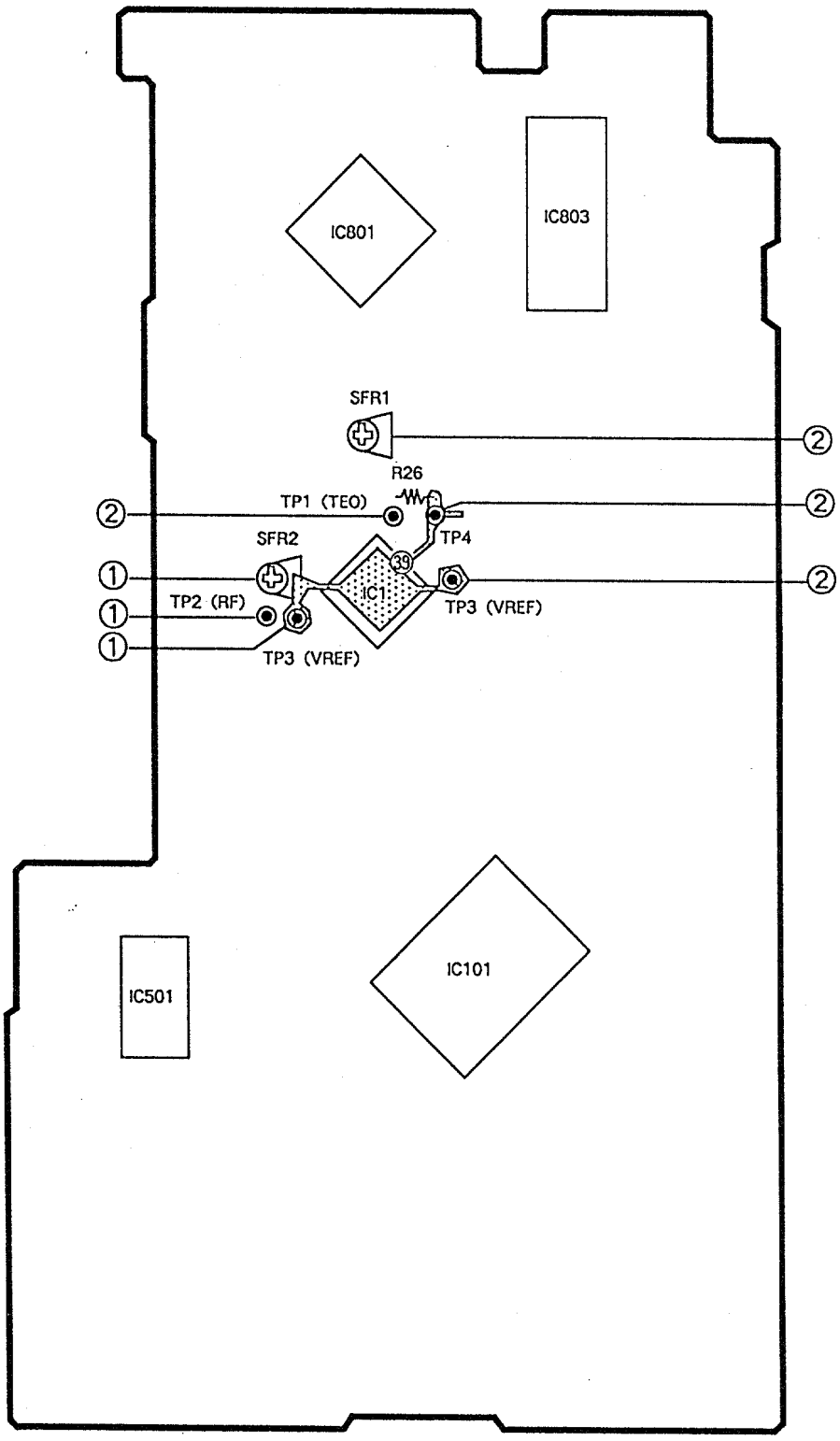
<SW2 SECTION> (HE, HR, HK)

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, CrO_2)
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 CrO_2, 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
	CrO_2 TTA-610
	METAL TTA-630

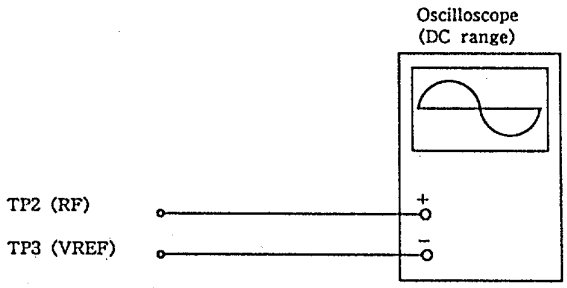
A 3CD C.B


IC801
IC803
SFR1
R26
TP1 (TEO)
SFR2
TP4
39
IC1
TP2 (RF)
TP3 (VREF)
TP3 (VREF)
IC501
IC101
2
2
2
2
1
1
1

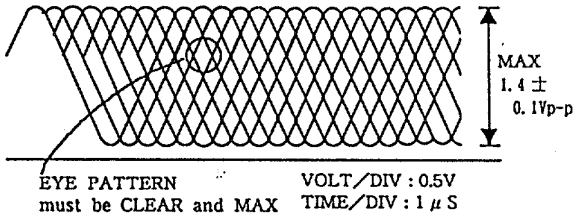
Note : Connect a probe (10 : 1) of the osilloscope to a test point.

1. Focus Bias Adjustment

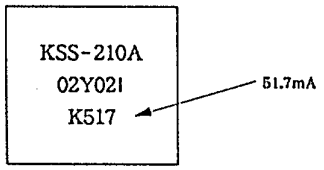
Make the focus bias adjustment when replacing and repairing the optical block.



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.

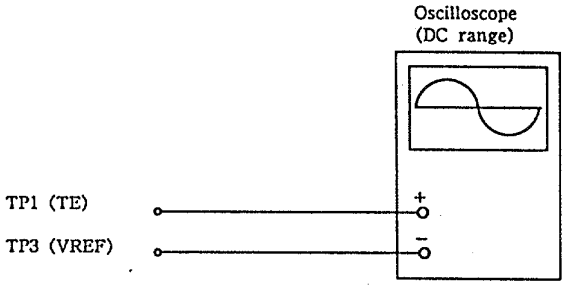


Note : The current of the laser signal can be checked with the voltages on both sides of R2 (10 Ω). The difference for the specified value shown on the lavel must be within ± 6.0mA.

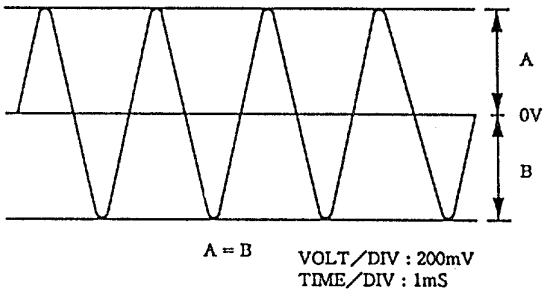


$$\text{Laser current } Iop = \frac{\text{Voltage across R2}}{10\,\Omega}$$

2. TRACKING Balance Adjustment

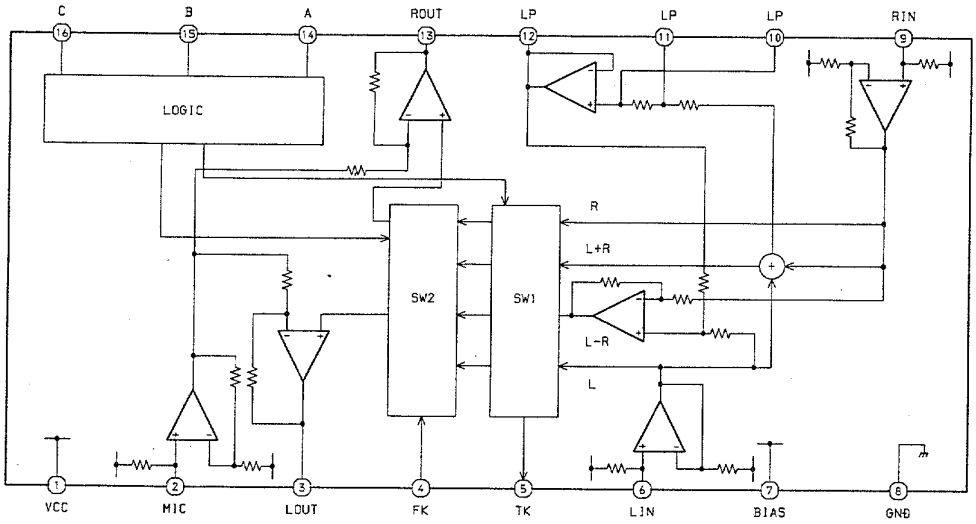


1) Short circut between TP3 (VREF) and TP4.
2) Connect an oscilloscope to the test points TP1 (TE) and TP3 (VREF).
3) Turn on the power switch.
4) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
5) Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as shown in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

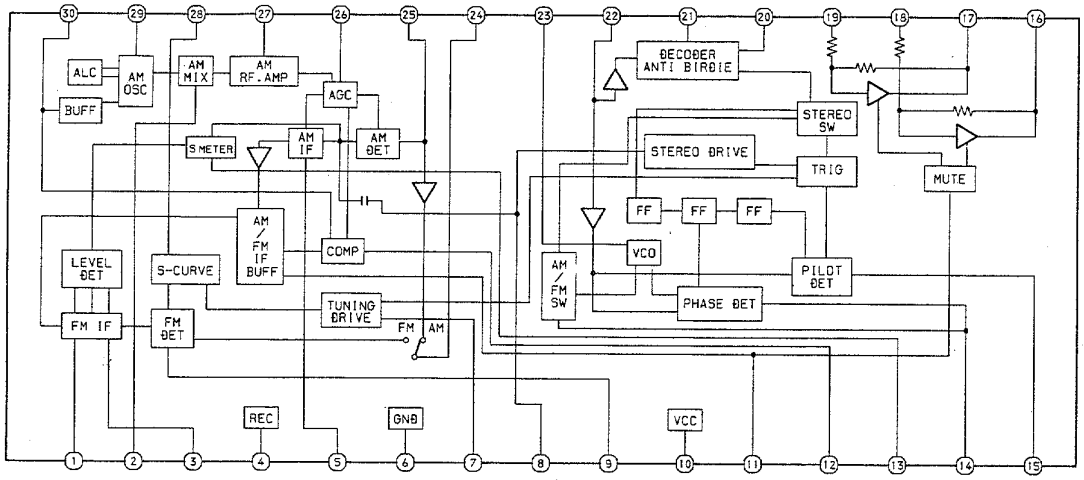


IC BLOCK DIAGRAM-2

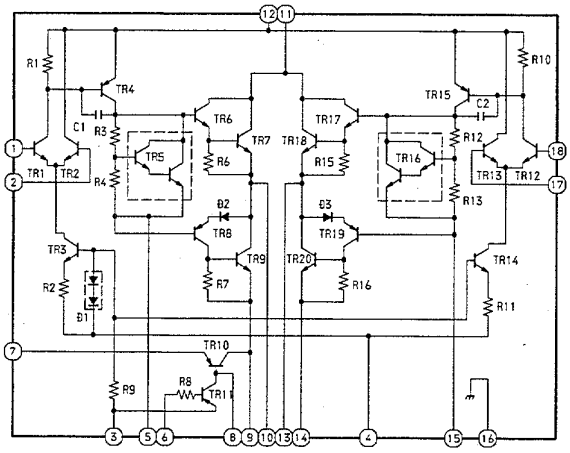
IC, BA3837



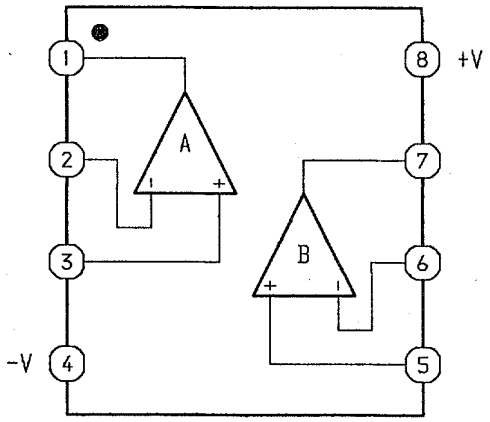
IC, LA1836



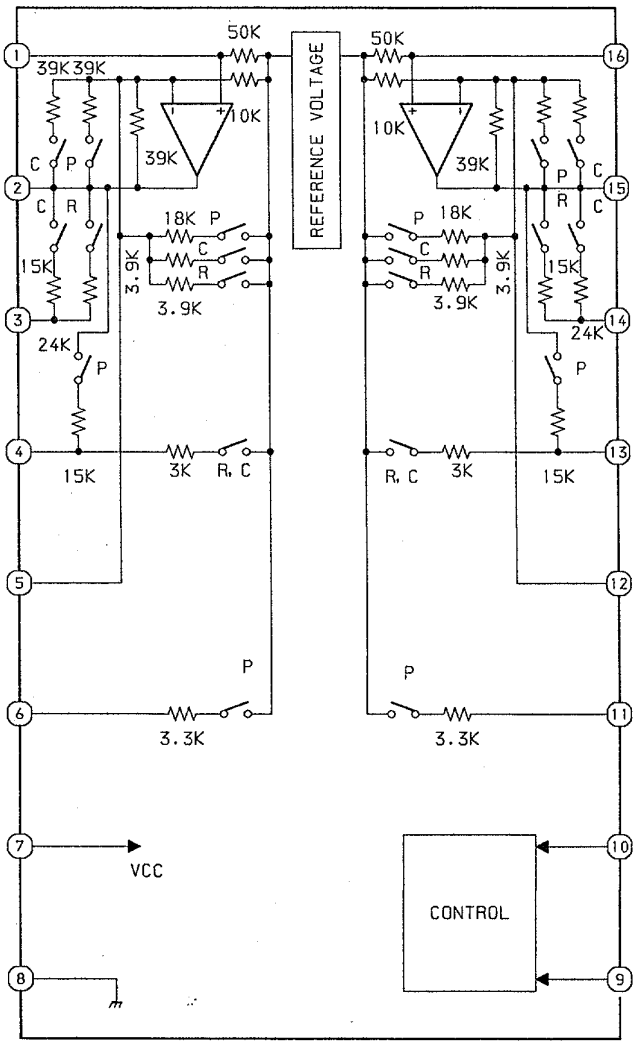
IC, STK41522



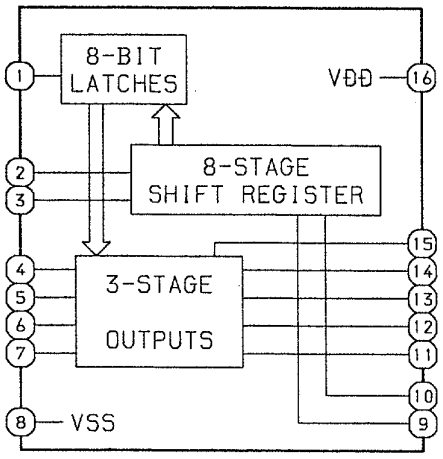
IC, NJM4558M



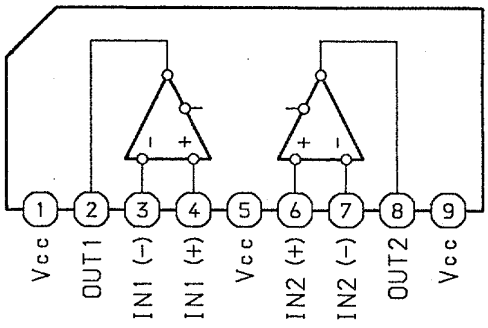
IC, M62412P



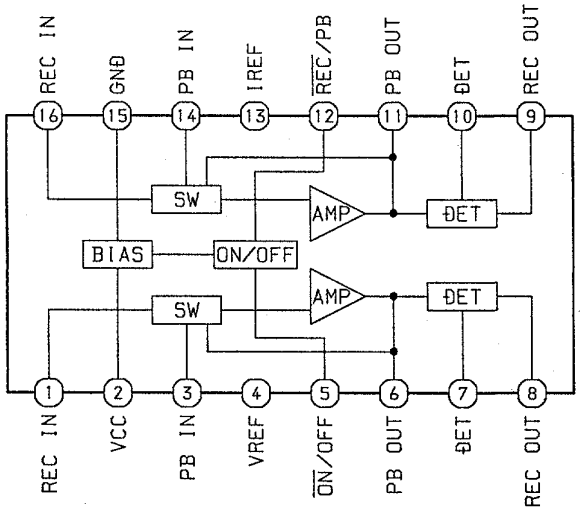
IC, TC4094BP



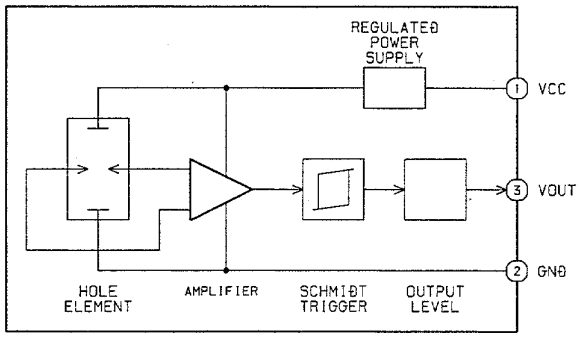
IC, NJM2068M-D (T1)



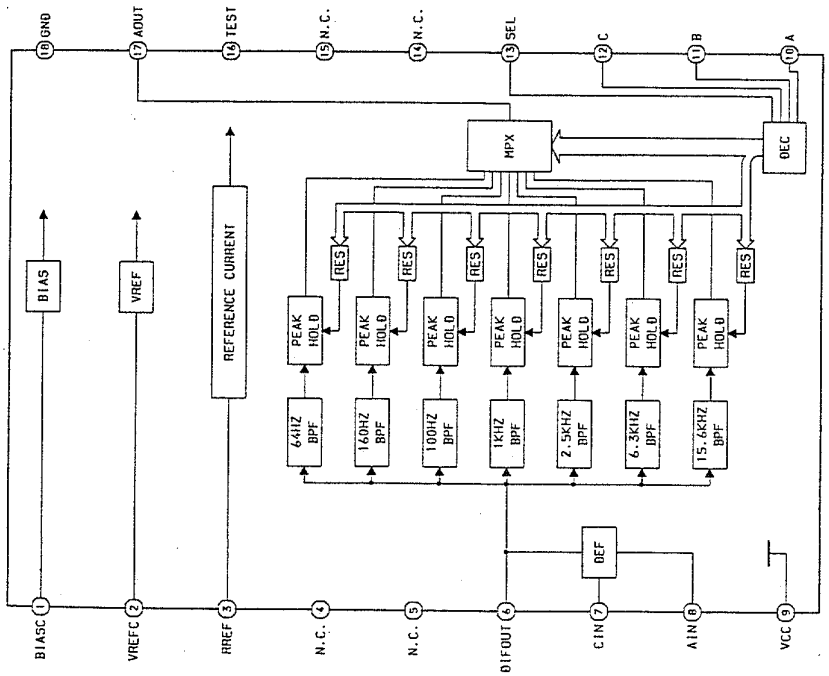
IC, HA12134A



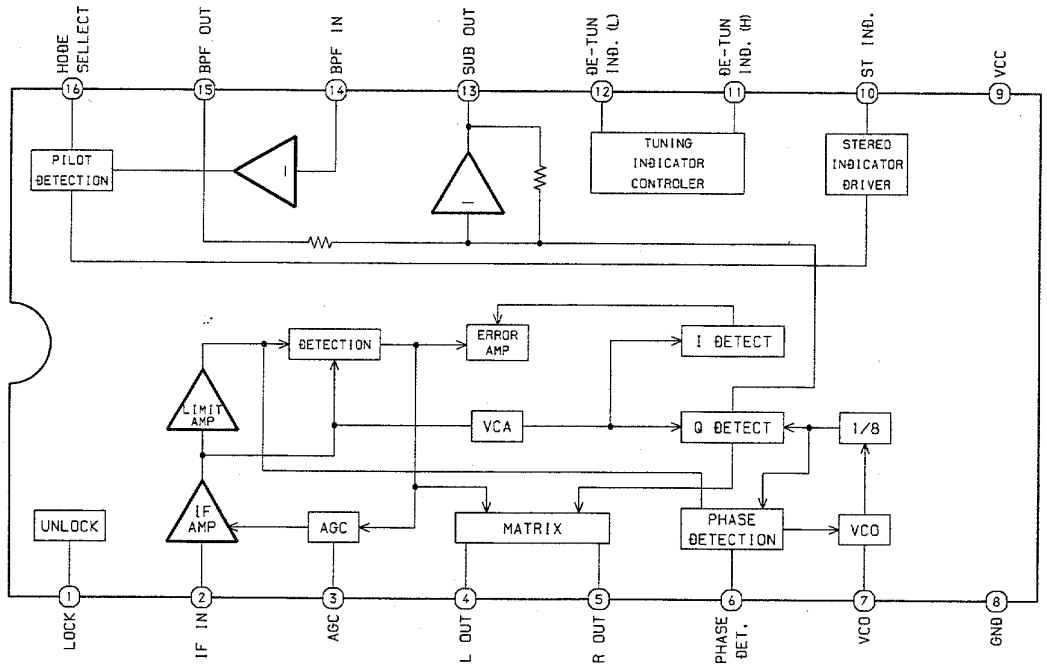
IC, DN6851



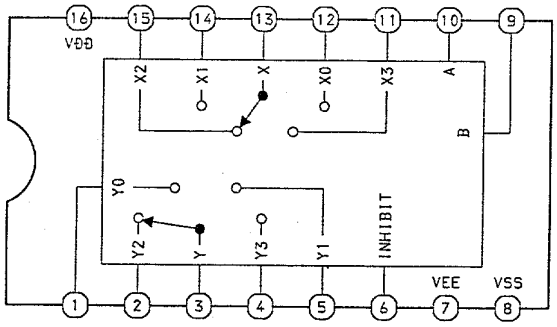
IC, BA3834S



IC, TA8124F



IC, BU4052BCP

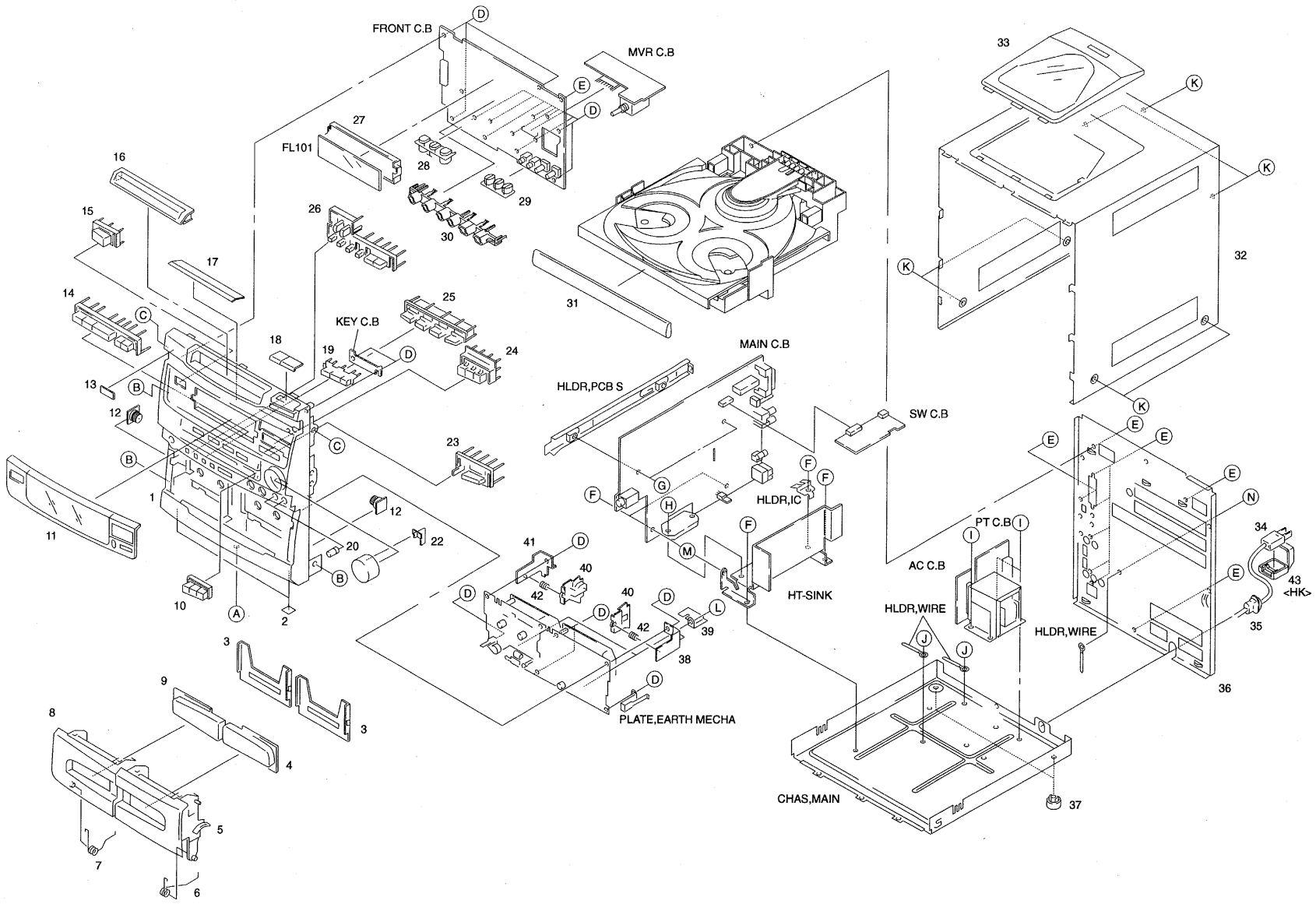


TRUTH TABLE

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

L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

MECHANICAL EXPLODED VIEW 1／1

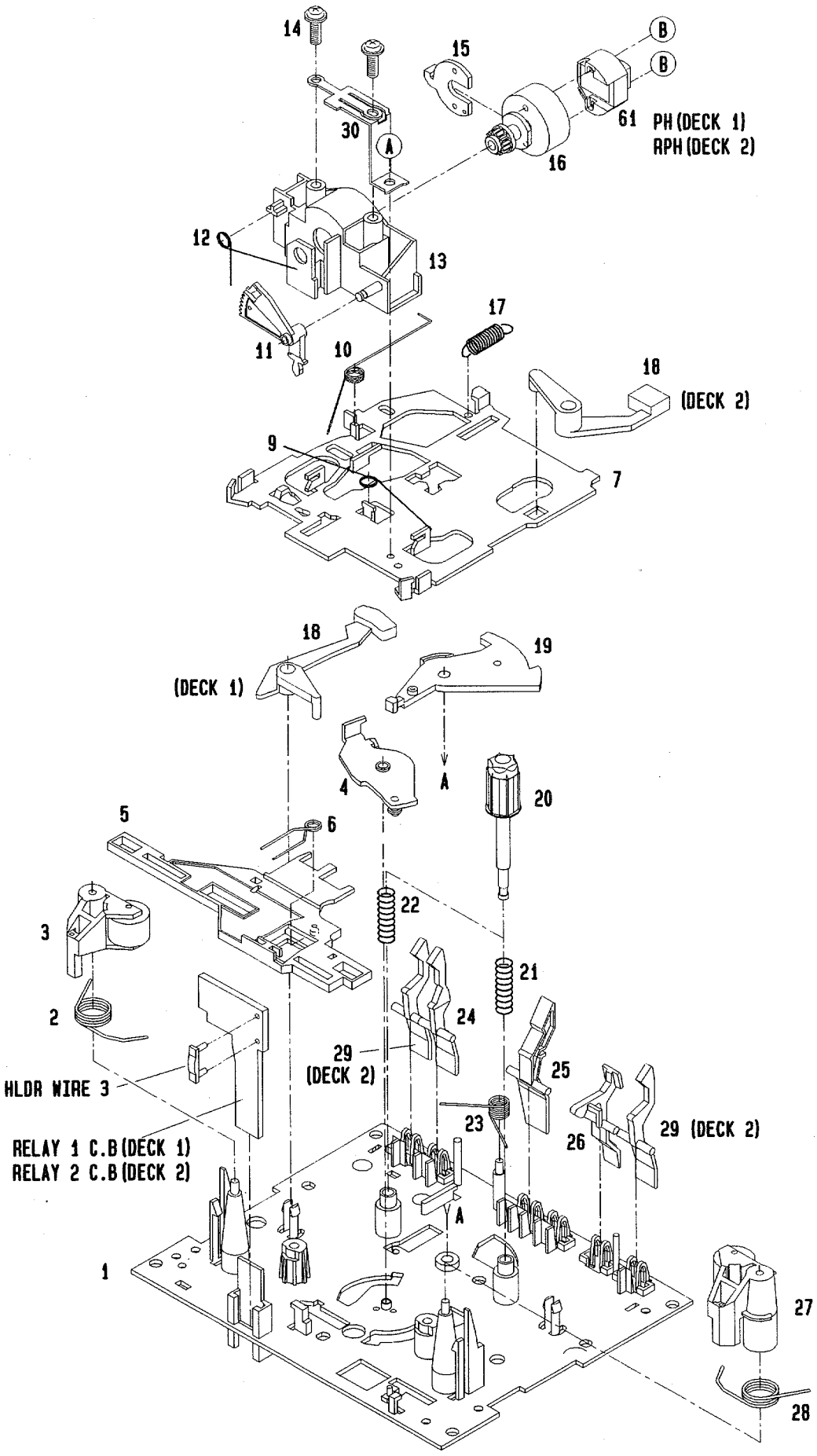


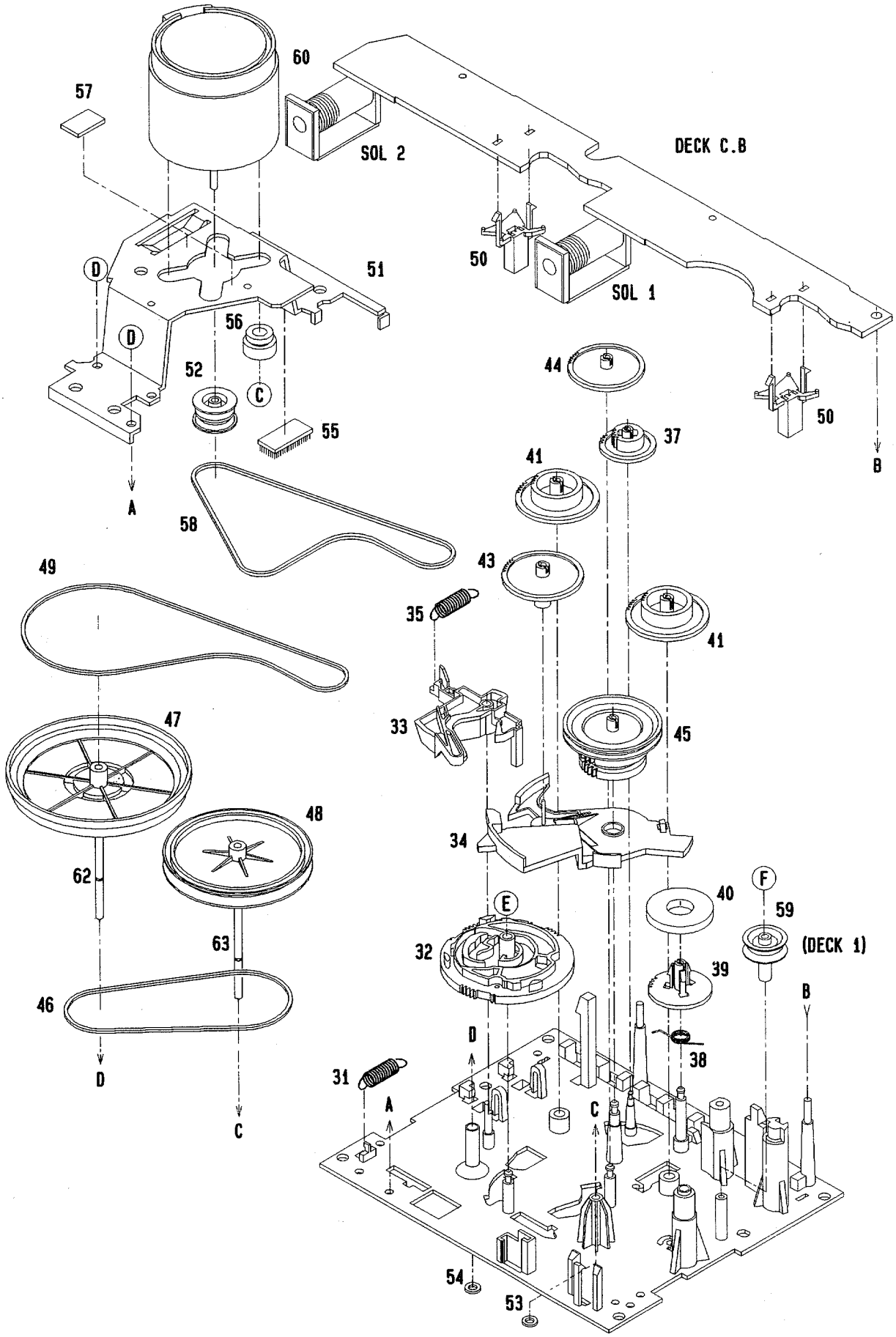
MECHANICAL PARTS LIST 1／1

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.	ｶﾝﾘ NO.	DESCRIPTION
1	85-NF6-001-010		CAB,FR<50HE,50HR,50LH,50HK>
1	85-NF6-004-010		CAB,FR<50U>
1	85-NF6-065-019		CAB,FR<50G,50C>
1	85-NF6-063-019		CAB,FR<52U>
1	85-NF6-068-019		CAB,FR<54U>
1	85-NFG-001-019		CAB,FR<51GHK,51GHE,51GHD,51GHR>
1	85-NFG-004-019		CAB,FR<51GU>
2	80-VT1-202-010		FELT,12.5-15.5-2
3	85-NF5-026-010		IND,CASS
4	85-NF6-012-010		WINDOW,CASS R<EXCEPT 54U>
4	85-NF6-085-019		WINDOW,CASS R<54U>
5	85-NF6-006-010		BOX,CASS R<EXCEPT 50U,50G,52U 54U,51GU,50C>
5	85-NF6-036-010		BOX,CASS R<50U,50G,52U,51GU,50C>
5	85-NF6-072-019		BOX,CASS R<54U>
6	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
7	82-NF5-218-010		SRT-T,EJECT 1 (SIN)
8	85-NF6-005-010		BOX,CASS L<EXCEPT 50U,50G,52U 54U,51GU,50C>
8	85-NF6-035-010		BOX,CASS L<50U,50G,52U,51GU,50C>
8	85-NF6-071-019		BOX,CASS L<54U>
9	85-NF6-011-010		WINDOW,CASS L<EXCEPT 54U>
9	85-NF6-084-019		WINDOW,CASS L<54U>
10	85-NF6-047-010		KEY,GEQ<EXCEPT 54U>
10	85-NF6-083-019		KEY,GEQ<54U>
11	85-NF6-007-010		PANEL,FR<EXCEPT 54U>
11	85-NF6-069-019		PANEL,FR<54U>
12	87-063-165-010		OIL-DMPR 150
13	82-NE6-067-010		BADGE AIWA 30N
14	85-NF6-017-010		KEY,PLAY<EXCEPT 54U>
14	85-NF6-080-019		KEY,PLAY<54U>
15	85-NF6-013-010		KEY,POWER<EXCEPT 54U>
15	85-NF6-079-019		KEY,POWER<54U>
16	85-NF6-009-010		WINDOW,CD
17	85-NF6-206-010		COVER,FL
18	85-NF6-014-010		KEY,OPEN<EXCEPT 54U>
18	85-NF6-073-019		KEY,OPEN<54U>
19	85-NF6-015-010		KEY,DISK<EXCEPT 54U>
19	85-NF6-074-019		KEY,DISC<54U>
20	83-NF5-020-010		KNOB,MIC<EXCEPT 54U>
20	85-NF6-078-019		KNOB,MIC<54U>
21	85-NF6-023-010		KNOB,MAIN<EXCEPT 54U>
21	85-NF6-076-019		KNOB,MAIN<54U>
22	85-NF6-024-010		IND,VOL
23	85-NF6-021-010		KEY,T-BASS<EXCEPT 54U>
23	85-NF6-082-019		KEY,T-BASS<54U>
24	85-NF6-019-010		KEY,DSP<EXCEPT 54U>
24	85-NF6-081-019		KEY,DSP<54U>
25	85-NF6-016-010		KEY,FUN ASSY
26	85-NF6-018-010		KEY,KARAOKE<50HE,50HR,50LH,50U 50HK,50G,52U,50C>
26	85-NF6-075-019		KEY,KARAOKE<54U>
27	82-NF5-212-010		GUIDE,FL
28	85-NF5-210-010		GUIDE,LED L
29	85-NF5-211-010		GUIDE,LED R
30	85-NF6-201-010		GUIDE,LED
31	85-NF6-008-010		PANEL,TRAY<50HE,50HR,50LH,50HK>
31	85-NF6-066-019		PANEL,TRAY<50U,50G,52U,50C>
31	85-NF6-077-019		PANEL,TRAY<54U>
31	85-NEG-005-019		PANEL,TRAY<51GHK,51GHE,51GHD 51GHR>
31	85-NEG-006-019		PANEL,TRAY<51GU>
32	85-NF5-007-010		CAB,STEEL<EXCEPT 54U,51GHD>
32	85-NF6-067-019		CAB,STEEL<54U>
32	85-NF5-008-010		CAB,STEEL<51GHD>
33	85-NF5-031-010		WINDOW,TOP<EXCEPT 51GU>
33	85-NFF-018-019		WINDOW,TOP<51GU>
⚠	34 87-050-079-010		AC CORD ASSY<50HE,50HR,50LH 50HK,51GHK,51GHE,51GHR>
⚠	34 87-050-097-010		AC CORD ASSY<51GHD>
⚠	34 87-050-053-010		AC CORD ASSY<50U,52U,54U,51GU 50C>
⚠	34 87-050-081-019		AC CORD ASSY<50G>
35	87-085-184-010		BUSHING,AC CORD<51GHD>
35	87-085-185-010		BUSHING,CORD<EXCEPT 50U,52U 54U,51GU,51GHD,50C>
35	87-085-189-010		BUSHING,CORD<50U,52U,54U,51GU 50C>
36	85-NF6-026-010		PANEL,REAR<50HE>
36	85-NF6-027-010		PANEL,REAR<50HR>
36	85-NF6-028-010		PANEL,REAR<50LH>
36	85-NF6-029-010		PANEL,REAR<50U>
36	85-NF6-058-019		PANEL,REAR<50HK>
36	85-NF6-062-019		PANEL,REAR<50G>
36	85-NF6-056-019		PANEL,REAR<52U>
36	85-NF6-070-019		PANEL,REAR<54U>
36	85-NFG-019-019		PANEL,REAR<51GHK>
36	85-NFG-011-019		PANEL,REAR<51GHE>
36	85-NFG-014-019		PANEL,REAR<51GU>
36	85-NFG-020-01S		PANEL,REAR<51GHD>
36	85-NFG-017-019		PANEL,REAR<51GHR>
36	85-NF6-090-019		PANEL,REAR<50C>
37	87-085-221-010		FOOT,H 13.5
38	82-NF5-227-010		HLDR,LOCK 2N
39	82-ZM3-213-010		PLATE,SHLD
40	82-NF5-229-010		PLATE,LOCK
41	82-NF5-226-010		HLDR LOCK 1N
42	82-NF5-228-010		SPR-C,LOCK
⚠	43 87-099-811-018		PLUG,ADPTR CONV<50HK,51GHK>
A	87-067-689-010		BVTT+3-8
B	87-591-094-410		QIT + 3 - 6 GOLD
C	87-721-097-410		QT 2+3-12
D	87-067-703-010		BVT 2+3-10 W/O SLOT
E	87-067-660-010		BVT2+3-8W/O SLOT BLK
F	87-067-579-010		BVT 2+3-8 W/O SLOT
G	87-078-084-010		BVTT +3-6 W CONVEX
H	87-067-581-010		BVT2+3-15 W/O SLOT
I	87-078-019-010		S-SCREW,IT+4-6
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




60
57
SOL 2
DECK C.B
50
SOL 1
51
D
D
56
52
C
55
44
37
50
B
41
A
58
49
43
35
41
33
45
47
34
48
62
40
F
59
E
32
(DECK 1)
39
63
B
46
D
38
D
31
A
C
54
53
C

TAPE MECHANISM PARTS LIST 1／1

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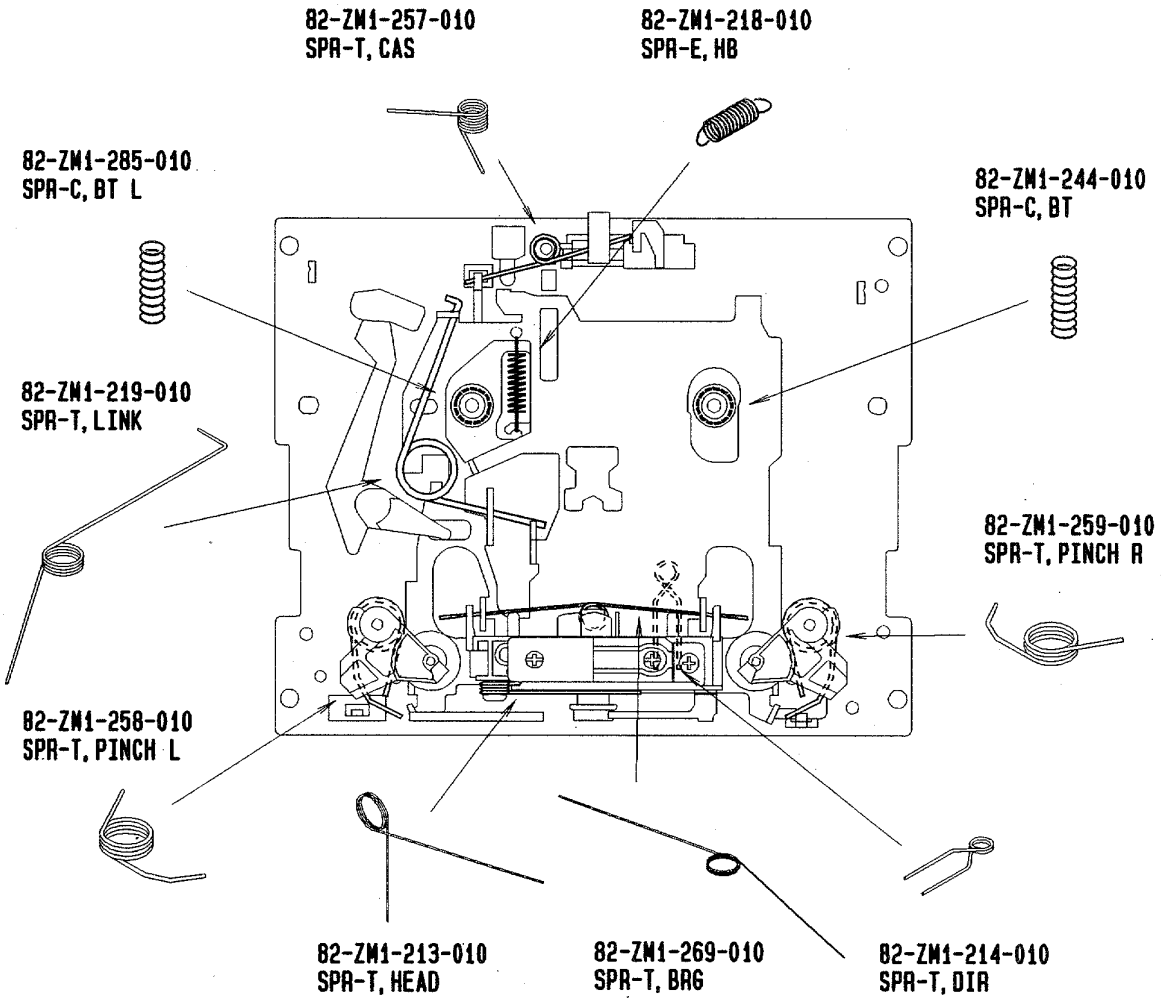
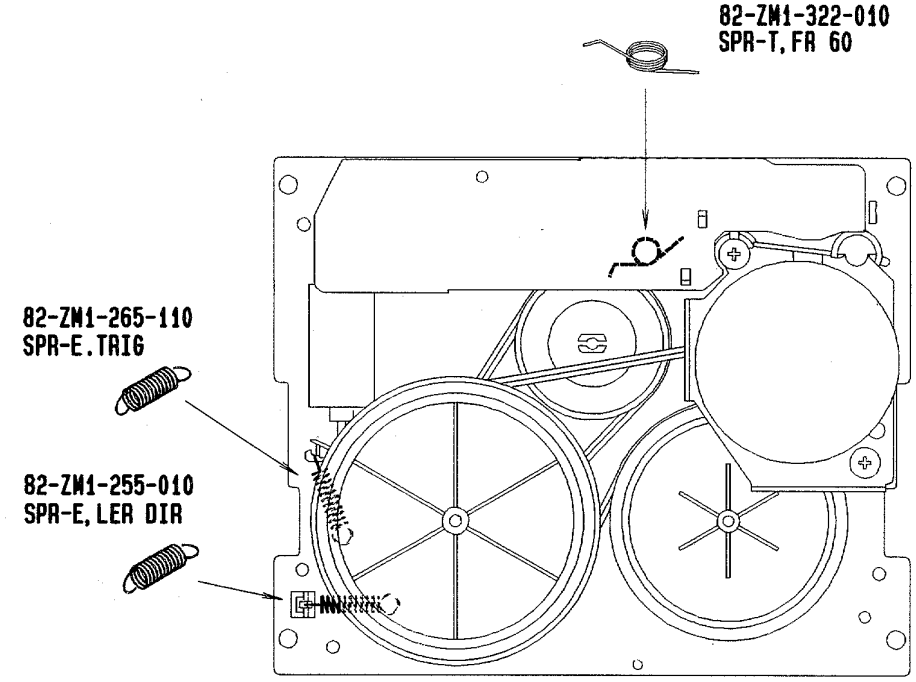
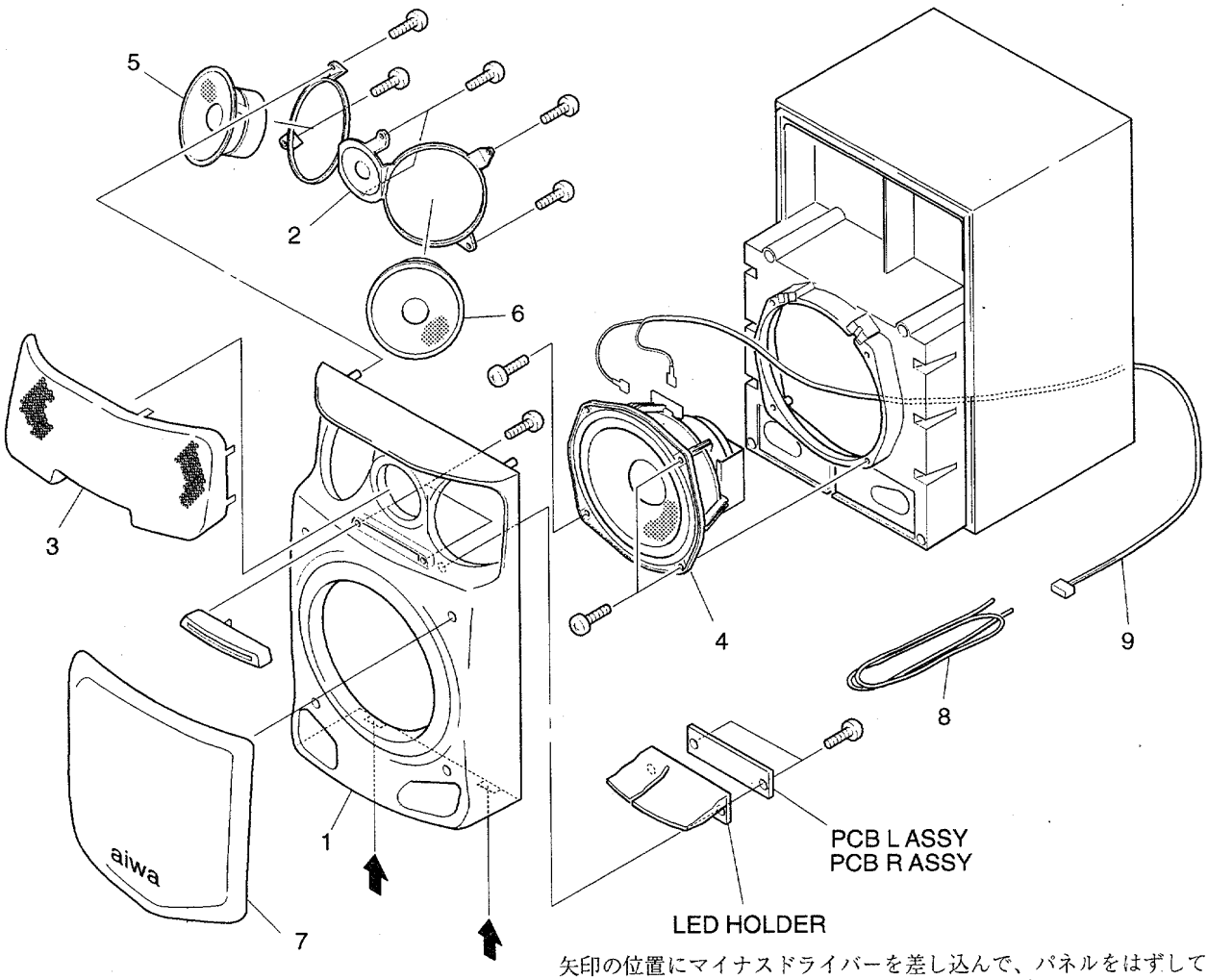
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY,P (DECK 1)
1	82-ZM1-299-010		CHAS ASSY,R (DECK 2)
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-248-110		LVR ASSY,PINCH L
4	82-ZM1-295-210		PLATE ASSY,LINK
5	82-ZM1-266-010		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-210		CHAS,HEAD
9	82-ZM1-269-010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

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
1	85-NS6-001-019		PANEL FR<EXCEPT 54YUW>
1	85-NS6-040-019		PANEL FR<54YUW>
2	85-NS5-011-019		ADAPTOR ASSY
3	85-NS6-010-019		SPEAKER GRILL
4	85-NS6-602-019		SPEAKER WOOFER
5	83-NS8-606-019		SPEAKER MID
6	83-NS8-608-019		SPEAKER
7	85-NS6-011-019		GRILL FRAME ASSY
8	85-NS6-611-019		SPEAKER CORD Y/B<YU,Y,54YUW>
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.	カンリ 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.	カンリ 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-NFG-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

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

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

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Printed in Singapore