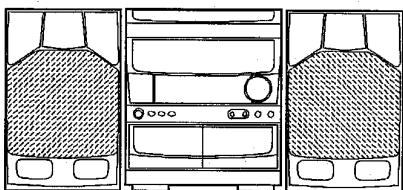


aiwa



NSX-K77 NSX-K700



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR3, PR5
- BASIC CD MECHANISM : 4ZG-1 GDFRV5NM
- TYPE: 700:HE
77:HK,EZ

CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
CX-NK77 (TYPE: HK)	SX-FNV800	
CX-NK700 (TYPE: HE)	SX-NAV80	RC-6AS08
CX-NK77 (TYPE: EZ)	SX-NAV70	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1,
S/M Code No.09-965-128-10T

S E R V I C E M A N U A L

S E R V I C E M A N U A L

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 : HK,EZ)	11,12
BLOCK DIAGRAM - 2 (MAIN / FRONT : HE)	13,14
BLOCK DIAGRAM - 3 (TUNER : HK,HE)	15
BLOCK DIAGRAM - 4 (TUNER : EZ)	16
WIRING - 1 (MAIN : HK,HE)	17,18
SCHEMATIC DIAGRAM - 1 (MAIN : HK,HE)	19~21
SCHEMATIC DIAGRAM - 2 (MAIN : EZ)	22~24
WIRING - 2 (MAIN : EZ)	25,26
WIRING - 3 (FRONT : HK,EZ)	27,28
SCHEMATIC DIAGRAM - 3 (FRONT : HK,EZ)	29~31
SCHEMATIC DIAGRAM - 4 (FRONT : HE)	32~34
WIRING - 4 (FRONT : HE)	35,36
WIRING - 5 (PT : HK)	37
WIRING - 5 (PT : EZ,HE)	38
WIRING - 6 (DECK)	39
FL GRID ASSIGNMENT / ANODE CONNECTION	40,41
IC BLOCK DIAGRAM.....	42~46
IC DESCRIPTION	47~51
ADJUSTMENT < TUNER / DECK >	52,53
PRACTICAL SERVICE FIGURE.....	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 DISASSEMBLY INSTRUCTIONS	62
SPEAKER EXPLODED VIEW 1 / 1	62
ACCESSORIES / PACKAGE LIST	64
REFERENCE NAME LIST	65

SPECIFICATIONS

<FM tuner section>		<Cassette deck section>	
Tuning range	87.5 MHz to 108 MHz	Track format	4 tracks, 2 channels stereo
Usable sensitivity(IHF)	13.2 dBf	Frequency response	CrO ₂ tape: 50 Hz – 16000 Hz
Antenna	75 ohms (unbalanced)	Signal-to-noise ratio	Normal tape: 50 Hz – 15000 Hz
<AM (MW) tuner section>		HK,HE : 48 dB (CrO₂ tape peak level)	HK,HE : 48 dB (CrO ₂ tape peak level)
Tuning range	531 kHz to 1602 kHz (9 kHz step)	EZ : 60 dB (DOLBY NR ON, CrO₂ tape peak level)	EZ : 60 dB (DOLBY NR ON, CrO ₂ tape peak level)
Usable sensitivity	530 kHz to 1710 kHz (10 kHz step)	AC bias	AC bias
Antenna	350 μV/m	Deck 1: Playback head x 1	Deck 1: Playback head x 1
Loop antenna		Deck 2: Recording/playback/erase head x 1	Deck 2: Recording/playback/erase head x 1
<SW tuner section><HK,HE>		<Compact disc player section>	
Tuning range	5.900 MHz ~ 17.900 MHz	Laser	Semiconductor laser ($\lambda = 780$ nm)
Antenna	Wire antenna	D-A converter	1 bit dual
<LW tuner section><EZ>		Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Tuning range	144kHz ~ 290kHz	Harmonic distortion	0.03% (1 kHz, 0 dB)
Usable sensitivity	1400 μV/m	Wow and flutter	Unmeasurable
Antenna	Loop antenna	Video signal	NTSC/PAL color format (selectable)
<Amplifier section>		Video data	MPEG 1
Power output	(without connecting to the SURROUND SPEAKERS) HK : Rated 70 W + 70 W HE : Rated 40 W + 40 W (6 ohms, T.H.D. 1%, 1 kHz) HK : Reference: 85 W + 85 W HE : Reference: 50 W + 50 W (6 ohms, T.H.D. 10%, 1 kHz) EZ : Rated 30 W + 30 W (6 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 38 W + 38 W (6 ohms, T.H.D. 10%, 1 kHz/ DIN45324) DIN MUSIC POWER : 60 W + 60 W	Audio data	MPEG 1, LAYER 2
Total Harmonic distortion	HK : 0.05% (40 W, 1 kHz, 6 ohms, DIN AUDIO) HE : 0.05% (25 W, 1 kHz, 6 ohms, DIN AUDIO) EZ : 0.05% (15 W, 1 kHz, 6 ohms, DIN AUDIO)	<Speaker system SX-FNV800<HK>,SX-NAV80<HE>, SX-NAV70<EZ>>	
Inputs	HK, HE : VIDEO/AUX: 400mV EZ : VIDEO/AUX: 150mV	Cabinet type	3way, bass reflex with surround speaker (Magnetic sealed type)
Outputs	MIC 1, MIC 2: 1 mV (10 kohms) HK,HE : SUPER WOOFER: 1.7 V EZ : SUPER WOOFER: 1.2 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more HK,HE : VIDEO OUT : 1.0Vp-p (75 ohms)	Speakers	Woofers: 140 mm cone type Tweeter: HK : 80mm cone type HE,EZ : 60mm cone type Super tweeter: 20 mm ceramic type HK : Surround speaker: 80mm cone type Front speaker: 6 ohms
		Impedance	HK : Surround speaker: 16 ohms
		Output sound pressure level	87 dB/W/m
		Dimensions (W x H x D)	HK : 235 x 302 x 270 mm HE,EZ : 235 x 302 x 250 mm
		Weight	HK : 3.8 kg HE,EZ : 3.3 kg
		<General>	
		Power requirements	HE, HK : 120 V / 220 – 230 V/240 V AC, switchable 50/60 Hz
		Power consumption	EZ : 230 V AC, 50 Hz HK : 170 W HE : 130 W EZ : 200 W
		Dimensions of main unit (W x H x D)	260 x 308 x 328 mm
		Weight of main unit	HK : 8.9 kg HE, EZ : 7.3 kg

• Design and specifications are subject to change without notice.

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

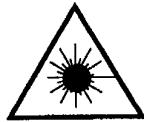
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

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 utsættelse for stråling.

VAROITUS!

Laitteen Käyttäminen muilla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käytäjän turvallisuusluokan 1 ylitetävälle näkymättömälle lasersäteilylle.

VARNING!

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

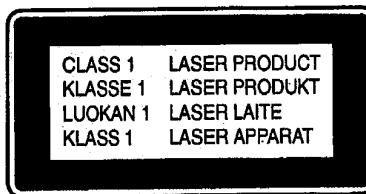
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå utsættelse 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.



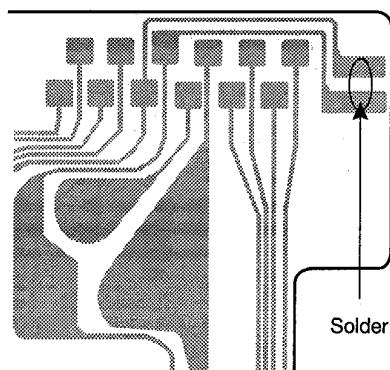
Precaution to replace Optical block

(KSS - 213B)

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

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

PICK - UP Assy P.C.B.



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C132	87-010-260-089	CAP, E 47-25 SME<HK>	
86-NF6-671-010	C-IC UPD78044HGF-019<700HE>	C141	87-010-384-089	CAP, E 100-25 SME			
86-NF6-672-010	C-IC UPD78045HGF-015<HK,EZ>	C142	87-010-384-089	CAP, E 100-25 SME			
87-A20-101-019	IC, STK405-070A<EZ>	C143	87-010-764-089	CAP, E 47-63V			
87-A20-102-019	IC, STK405-090A<700HE>	C144	87-010-196-089	C-CAP,S 0.1-25 F			
87-A20-103-019	IC, STK405-110A<HK>	C145	87-010-196-089	C-CAP,S 0.1-25 F			
87-070-453-010	IC, SPS-442-1<700HE>	C146	87-010-390-099	CAP, E 3300-25 SME<HK,EZ>			
87-070-083-019	IC, GP1U281X<HK,EZ>	C146	87-016-565-099	CAP, E 4700-25 SME<700HE>			
87-070-121-010	IC, HA12185NT	C151	87-012-368-089	C-CAP,S 0.1-50F			
87-001-874-010	IC, HA12134A<EZ>	C152	87-012-368-089	C-CAP,S 0.1-50F			
87-017-915-019	C-IC, BU4094 BCF	C153	87-016-474-099	CAP, E 3300-50			
87-017-914-019	IC, BU4094 BC	C154	87-016-474-099	CAP, E 3300-50			
87-017-804-019	IC, BU4052BC	C161	87-010-401-089	CAP, E 1-50 SME			
87-A20-107-019	IC, BA3836	C172	87-012-140-089	C-CAP,S 470P-50 CH			
87-017-888-089	IC, NJM4558MD	C173	87-010-405-089	CAP, E 10-50 SME			
87-A20-069-049	C-IC, BA3842F	C181	87-010-101-089	CAP, E 220-16 SME			
87-070-127-119	IC, LCT2131D	C182	87-010-381-089	CAP, E 330-16 SME			
87-017-714-119	IC, LA1836L	C197	87-010-196-089	C-CAP,S 0.1-25 F			
87-A20-070-019	IC-LV1100	C198	87-010-196-089	C-CAP,S 0.1-25 F			
87-020-454-010	IC, DN6851	C201	87-010-400-089	CAP, E 0.47-50 SME			
87-070-232-019	IC, BA3834S	C202	87-010-400-089	CAP, E 0.47-50 SME			
87-A20-068-049	C-IC, M65847FP	C203	87-010-181-089	C-CAP,S 1800P-50 B<HK>			
		C203	87-010-177-089	C-CAP,S 820P-50 SL<700HE,EZ>			
		C204	87-010-181-089	C-CAP,S 1800P-50 B<HK>			
		C204	87-010-177-089	C-CAP,S 820P-50 SL<700HE,EZ>			
TRANSISTOR				C205	87-010-180-089	C-CAP,S 1500P-50 B<HK>	
87-026-610-089	TR, KTC3198GR	C205	87-010-181-089	C-CAP,S 1800P-50 B<700HE>			
89-327-125-089	C-TR, 2SC2712GR	C205	87-010-182-089	C-CAP,S 2200P-50 B<EZ>			
89-111-625-089	C-TR, 2SA1162GR	C206	87-010-180-089	C-CAP,S 1500P-50 B<HK>			
87-026-609-089	TR, KTA1266GR	C206	87-010-181-089	C-CAP,S 1800P-50 B<700HE>			
89-213-702-019	TR 2SB1370E	C206	87-010-182-089	C-CAP,S 2200P-50 B<EZ>			
89-332-665-089	TR, 2SC3266GR	C207	87-010-402-089	CAP, E 2.2-50 SME			
89-406-555-089	TR, 2SD655E	C208	87-010-402-089	CAP, E 2.2-50 SME			
87-026-218-089	TR, DTC144ES	C209	87-010-402-089	CAP, E 2.2-50 SME			
87-026-286-089	TR, DTA143ES	C210	87-010-402-089	CAP, E 2.2-50 SME			
89-502-466-089	TR FET 2SK246-BL (TPE2)	C211	87-010-318-089	C-CAP,S 47P-50 CH<EZ>			
89-333-317-089	TR, 2SC3331T	C212	87-010-318-089	C-CAP,S 47P-50 CH<EZ>			
87-026-216-089	TR, DTA124ES	C213	87-010-147-089	C-CAP,S 3P-50 CH			
89-109-521-089	TR, 2SA952K	C214	87-010-147-089	C-CAP,S 3P-50 CH			
89-112-965-089	TR, 2SA1296GR	C215	87-010-196-089	C-CAP,S 0.1-25 F			
87-026-219-089	TR, DTA144ES	C216	87-010-196-089	C-CAP,S 0.1-25 F			
89-327-143-089	C-TR, 2SC2714 (O)	C217	87-010-196-089	C-CAP,S 0.1-25 F			
89-328-785-089	TR 2SC2878-A (E2-M)	C218	87-010-196-089	C-CAP,S 0.1-25 F			
87-026-269-089	TR, DTA114ES	C219	87-010-198-089	C-CAP,S 0.022-25 B			
89-503-602-089	C-FET, 2SK360E	C220	87-010-198-089	C-CAP,S 0.022-25 B			
87-026-214-089	TR, DTA114YS	C221	87-010-194-089	C-CAP,S 0.047-25 F			
89-505-434-549	C-FET, 2SK543(4/5)	C261	87-010-197-089	C-CAP,S 0.01-25 B<EZ>			
87-026-463-089	TR, 2SA933S(RS)	C262	87-010-197-089	C-CAP,S 0.01-25 B<EZ>			
87-A30-047-089	TR, CSD655E	C263	87-010-197-089	C-CAP,S 0.01-25 B<EZ>			
89-320-011-089	TR, 2SC2001K<EZ>	C264	87-010-197-089	C-CAP,S 0.01-25 B<EZ>			
87-A30-065-089	TR, 2SC2785FE	C301	87-010-197-089	C-CAP,S 0.01-25 B			
87-A30-066-089	TR, 2SA1175FE	C311	87-012-155-089	C-CAP,S 180P-50 CH			
		C312	87-012-155-089	C-CAP,S 180P-50 CH			
		C313	87-010-180-089	C-CAP,S 1500P-50 B<EXCEPT EZ>			
		C313	87-010-181-089	C-CAP,S 1800P-50 B<EZ>			
DIODE				C314	87-010-180-089	C-CAP,S 1500P-50 B<EXCEPT EZ>	
87-020-027-089	C-DIODE, 1SS184	C314	87-010-181-089	C-CAP,S 1800P-50 B<EZ>			
87-020-125-089	C-DIODE, 1SS181	C321	87-012-145-089	C-CAP,S 270P-50CH			
87-017-978-089	DIODE, 1N4003	C322	87-012-145-089	C-CAP,S 270P-50CH			
87-017-437-089	DIODE, 1N4148M	C323	87-012-154-089	C-CAP,S 150P-50 CH			
87-A40-116-069	DIODE, RS403L-B-D-51	C324	87-012-154-089	C-CAP,S 150P-50 CH			
87-A40-202-089	ZENER UZ 5.1BSB	C325	87-010-179-089	C-CAP,S 1200P-50 B			
87-A40-201-089	ZENER UZ 4.7BSA	C326	87-010-179-089	C-CAP,S 1200P-50 B			
87-A40-200-089	ZENER UZL 11L3	C331	87-010-392-089	CAP, E 33-35 SME<EXCEPT EZ>			
87-A40-199-089	ZENER, UZL 6H2	C332	87-010-392-089	CAP, E 33-35 SME<EXCEPT EZ>			
87-A40-209-089	ZENER, UT 27BSD	C333	87-010-198-089	C-CAP,S 0.22-25 B			
		C334	87-010-198-089	C-CAP,S 0.22-25 B			
MAIN C.B		C335	87-010-189-089	C-CAP,S 8200P-50 B<EXCEPT EZ>			
BPF831	87-030-105-019	FLTR, BPM B6A<EZ>	C336	87-010-189-089	C-CAP,S 8200P-50 B<EXCEPT EZ>		
C131	87-010-403-089	CAP, E 3.3-50 SME	C337	87-010-400-089	CAP, E 0.47-50 SME		

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C338	87-010-400-089	CAP,E 0.47-50 SME		C583	87-A10-060-089	C-CAP,S 0.18-16 KB	
C339	87-010-371-089	CAP,E 470-6.3 11L		C584	87-A10-060-089	C-CAP,S 0.18-16 KB	
C340	87-010-196-089	C-CAP,S 0.1-25 F		C585	87-010-177-089	C-CAP,S 820P-50 SL	
C351	87-010-546-089	CAP,E 0.33-50 SME<EXCEPT EZ>		C586	87-012-145-089	C-CAP,S 270P-50 CH	
C352	87-010-546-089	CAP,E 0.33-50 SME<EXCEPT EZ>		C590	87-010-177-089	C-CAP,S 820P-50 SL	
C353	87-010-401-089	CAP,E 1-50 SME<EXCEPT EZ>		C591	87-012-145-089	C-CAP,S 270P-50 CH	
C354	87-010-401-089	CAP,E 1-50 SME<EXCEPT EZ>		C592	87-010-196-089	C-CAP,S 0.1-25 F	
C355	87-010-401-089	CAP,E 1-50 SME		C593	87-012-154-089	C-CAP,S 150P-50 CH	
C356	87-010-401-089	CAP,E 1-50 SME		C594	87-010-183-089	C-CAP,S 2700P-50 B	
C357	87-010-178-089	C-CAP,S 1000P-50 B		C595	87-010-196-089	C-CAP,S 0.1-25 F	
C359	87-010-196-089	C-CAP,S 0.1-25 F<EZ>		C596	87-018-209-019	CAP,TC-U 0.1-50 2F UP	
C360	87-010-196-089	C-CAP,S 0.1-25 F<EZ>		C601	87-010-198-089	C-CAP,S 0.022-25 B	
C371	87-012-156-089	C-CAP,S 220P-50 CH		C701	87-010-404-089	CAP,E 4.7-50 SME	
C372	87-012-156-089	C-CAP,S 220P-50 CH		C702	87-010-197-089	C-CAP,S 0.01-25 B	
C373	87-010-178-089	C-CAP,S 1000P-50 B<EXCEPT EZ>		C703	87-010-197-089	C-CAP,S 0.01-25 B	
C373	87-010-177-089	C-CAP,S 820P-50 SL<EZ>		C704	87-010-178-089	C-CAP,S 1000P-50 B	
C374	87-010-178-089	C-CAP,S 1000P-50 B<EXCEPT EZ>		C707	87-010-402-089	CAP,E 2.2-50 SME	
C374	87-010-175-089	C-CAP,S 560P-50 UJ<EZ>		C708	87-010-402-089	CAP,E 2.2-50 SME	
C376	87-010-392-089	CAP,E 33-35 SME		C711	87-010-263-089	CAP,E 100-10 SME 5X11	
C377	87-010-198-089	C-CAP,S 0.022-25 B		C712	87-010-112-089	CAP,E 100-16 11L	
C378	87-010-197-089	C-CAP,S 0.01-25 B		C722	87-010-152-089	C-CAP,S 8P-50 CH	
C379	87-010-183-089	C-CAP,S 2700P-50 B		C723	87-010-178-089	C-CAP,S 1000P-50 B	
C380	87-010-183-089	C-CAP,S 2700P-50 B		C725	87-010-178-089	C-CAP,S 1000P-50 B	
C381	87-010-183-089	C-CAP,S 2700P-50 B		C727	87-010-196-089	C-CAP,S 0.1-25 F	
C401	87-012-142-089	C-CAP,S 0.33-16 F<EZ>		C728	87-010-248-089	CAP,E 220-10 SME	
C402	87-012-142-089	C-CAP,S 0.33-16 F<EZ>		C729	87-010-197-089	C-CAP,S 0.01-25 B	
C403	87-010-177-089	C-CAP,S 820P-50 SL<EZ>		C730	87-018-134-089	CAP,TC-U 0.01-16 Y	
C404	87-010-177-089	C-CAP,S 820P-50 SL<EZ>		C770	87-010-197-089	C-CAP,S 0.01-25 B	
C405	87-010-545-089	CAP,E 0.22-50 SME<EZ>		C771	87-010-405-089	CAP,E 10-50 SME	
C406	87-010-545-089	CAP,E 0.22-50 SME<EZ>		C772	87-010-194-089	C-CAP,S 0.047-25 F	
C407	87-010-400-089	CAP,E 0.47-50 SME<EZ>		C773	87-010-196-089	C-CAP,S 0.1-25 F	
C408	87-010-400-089	CAP,E 0.47-50 SME<EZ>		C774	87-010-263-089	CAP,E 100-10 SME 5X11	
C409	87-010-405-089	CAP,E 10-50 SME		C775	87-010-405-089	CAP,E 10-50 SME	
C451	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>		C776	87-010-197-089	C-CAP,S 0.01-25 B<EZ>	
C452	87-010-184-089	C-CAP,S 3300P-50 B<EZ>		C777	87-010-400-089	CAP,E 0.47-50 SME	
C453	87-010-312-089	C-CAP,S 15P-50 CH		C778	87-010-401-089	CAP,E 1-50 SME	
C454	87-012-145-089	C-CAP,S 270P-50CH<EXCEPT EZ>		C779	87-010-401-089	CAP,E 1-50 SMB	
C455	87-010-197-089	C-CAP,S 0.01-25 B		C780	87-010-197-089	C-CAP,S 0.01-25 B	
C456	87-010-402-089	CAP,E 2.2-50 SME		C787	87-010-184-089	C-CAP,S 3300P-50 B<EZ>	
C521	87-010-181-089	C-CAP,S 1800P-50 B		C788	87-010-184-089	C-CAP,S 3300P-50 B<EZ>	
C522	87-010-181-089	C-CAP,S 1800P-50 B		C789	87-012-365-089	C-CAP,S 0.027-25 B<EXCEPT EZ>	
C523	87-010-178-089	C-CAP,S 1000P-50 B		C789	87-010-179-089	C-CAP,S 1200P-50 B<EZ>	
C524	87-010-178-089	C-CAP,S 1000P-50 B		C790	87-010-179-089	C-CAP,S 1200P-50 B<EZ>	
C527	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>		C790	87-012-365-089	C-CAP,S 0.027-25 B<EXCEPT EZ>	
C527	87-010-220-089	C-CAP,S 0.018-25 B<EZ>		C791	87-010-401-089	CAP,E 1-50 SME	
C528	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>		C792	87-018-196-089	CAP,TC-U 1500P-16 Y<EXCEPT EZ>	
C528	87-010-220-089	C-CAP,S 0.018-25 B<EZ>		C792	87-010-183-089	C-CAP,S 2700P-50 B<EZ>	
C529	87-010-400-089	CAP,E 0.47-50 SME		C793	87-010-189-089	C-CAP,S 8200P-50 B	
C530	87-010-400-089	CAP,E 0.47-50 SME		C794	87-010-260-089	CAP,E 47-25 SME	
C531	87-010-382-089	CAP,E 22-25 SME		C795	87-010-194-089	C-CAP,S 0.047-25 F	
C532	87-010-198-089	C-CAP,S 0.022-25 B		C796	87-010-403-089	CAP,E 3.3-50 SME	
C551	87-010-403-089	CAP,E 3.3-50 SME<HK>		C797	87-010-197-089	C-CAP,S 0.01-25 B	
C551	87-010-546-089	CAP,E 0.33-50 SME<700HE>		C798	87-018-134-089	CAP,TC-U 0.01-16 Y<EXCEPT EZ>	
C551	87-010-401-089	CAP,E 1-50 SME<EZ>		C799	87-010-405-089	CAP,E 10-50 SME	
C552	87-010-403-089	CAP,E 3.3-50 SME<HK>		C801	87-010-197-089	C-CAP,S 0.01-25 B	
C552	87-010-546-089	CAP,E 0.33-50 SME<700HE>		C802	87-010-312-089	C-CAP,S 15P-50 CH<EZ>	
C552	87-010-401-089	CAP,E 1-50 SME<EZ>		C802	87-010-311-089	C-CAP,S 12P-50 CH<EXCEPT EZ>	
C553	87-010-194-089	C-CAP,S 0.047-25 F		C803	87-018-134-089	CAP,TC-U 0.01-16 Y	
C554	87-010-183-089	C-CAP,S 2700P-50 B		C804	87-010-151-089	C-CAP,S 7P-50 CH<EXCEPT EZ>	
C556	87-010-263-089	CAP,E 100-10 SME 5X11		C805	87-010-146-089	C-CAP,S 2P-50 CH<EZ>	
C557	87-010-596-089	C-CAP,S 0.047-16 RK		C805	87-010-150-089	C-CAP,S 6P-50 CH<EXCEPT EZ>	
C558	87-010-545-089	CAP,E 0.22-50 SME		C806	87-010-147-089	C-CAP,S 3P-50 CH<EZ>	
C559	87-010-196-089	C-CAP,S 0.1-25 F		C806	87-010-145-089	C-CAP,S 1P-50 CH<EXCEPT EZ>	
C562	87-010-596-089	C-CAP,S 0.047-16 RK		C807	87-010-312-089	C-CAP,S 15P-50 CH<EZ>	
C577	87-010-374-089	CAP,E 47-10 SME		C807	87-010-149-089	C-CAP,S 5P-50 CH<EXCEPT EZ>	
C578	87-010-196-089	C-CAP,S 0.1-25 F		C808	87-010-322-089	C-CAP,S 100P-50 CH	
C579	87-010-263-089	CAP,E 100-10 SME 5X11		C809	87-010-197-089	C-CAP,S 0.01-25 B	
C580	87-010-196-089	C-CAP,S 0.1-25 F		C810	87-010-197-089	C-CAP,S 0.01-25 B	
C581	87-010-183-089	C-CAP,S 2700P-50 B		C811	87-010-149-089	C-CAP,S 5P-50 CH	
C582	87-012-154-089	C-CAP,S 150P-50 CH		C812	87-010-314-089	C-CAP,S 22P-50 CH	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C813	87-010-197-089	C-CAP,S 0.01-25 B	L801	87-006-249-019	COIL,ANT FM3/4TS,L4		
C814	87-010-197-089	C-CAP,S 0.01-25 B	L802	87-006-251-019	COIL,ANT FM2-3/4TS,L4		
C815	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>	L803	87-006-244-019	COIL,RF FM 3-1/2T,L4		
C817	87-010-196-089	C-CAP,S 0.1-25 F<EZ>	L804	87-006-250-019	COIL,RF FM 3-1/2TS,L4		
C820	87-010-260-089	CAP,E 47-25 SME	L805	87-003-098-089	COIL,2,2UH		
C821	87-010-197-089	C-CAP,S 0.01-25 B	L807	87-A50-031-019	COIL,FM OSC (TOK)		
C823	87-010-197-089	C-CAP,S 0.01-25 B	L831	87-006-250-019	COIL,RF FM 3-1/2TS,L4<EZ>		
C824	87-018-134-089	CAP,TC-U 0.01-16 Y<EXCEPT EZ>	L832	87-003-098-089	COIL,2,2UH		
C825	87-010-196-089	C-CAP,S 0.1-25 F	L941	87-A50-022-019	COIL,ANT SW(COI)<EXCEPT EZ>		
C827	87-010-145-089	C-CAP,S 1P-50 CH<EZ>	L941	87-A50-020-019	COIL,ANT LW<EZ>		
C831	87-010-312-089	C-CAP,S 15P-50 CH	L942	87-A50-021-019	COIL,OSC SW(COI)<EXCEPT EZ>		
C832	87-010-314-089	C-CAP,S 22P-50 CH<EZ>	L942	87-A50-019-019	COIL,OSC LW<EZ>		
C833	87-010-197-089	C-CAP,S 0.01-25 B	L943	87-005-372-089	COIL S 1 MH TAPG<EXCEPT EZ>		
C834	87-010-311-089	C-CAP,S 12P-50 CH<EZ>	L944	87-003-131-089	COIL S 10 MH TAPG<EXCEPT EZ>		
C835	87-010-154-089	C-CAP,S 10P-50 CH	L981	86-NF4-666-019	AM PACK 3(TOK)<EXCEPT EZ>		
C836	87-010-312-089	C-CAP,S 15P-50 CH	L981	86-NF4-665-019	AM PACK 1(TOK)<EZ>		
C837	87-010-312-089	C-CAP,S 15P-50 CH	R191	87-A00-091-089	RES,M/F 0.15-1W<HK>		
C843	87-010-146-089	C-CAP,S 2P-50 CH	R191	87-022-050-089	RES,M/F 0.22-1W<700HE,EZ>		
C849	87-010-197-089	C-CAP,S 0.01-25 B	R192	87-A00-091-089	RES,M/F 0.15-1W<HK>		
C851	87-010-197-089	C-CAP,S 0.01-25 B<EZ>	R192	87-022-050-089	RES,M/F 0.22-1W<700HE,EZ>		
C901	87-010-197-089	C-CAP,S 0.01-25 B	RY151	87-045-361-019	RELAY,DH12D2-OS(M)-2		
C941	87-010-314-089	C-CAP,S 22P-50 CH<EXCEPT EZ>	RY281	87-045-382-019	RELAY,OUAZ-SH-112L		
C942	87-010-148-089	C-CAP,S 4P-50 CH<EZ>	SFR311	87-024-177-089	SFR 220K DIA.6 V<EXCEPT EZ>		
C943	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>	SFR311	87-024-174-089	SFR 33K DIA.6 V<EZ>		
C944	87-014-051-089	CAP,PP 560P-100 J<EXCEPT EZ>	SFR312	87-024-177-089	SFR 220K DIA.6 V<EXCEPT EZ>		
C945	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>	SFR312	87-024-174-089	SFR 33K DIA.6 V<EZ>		
C946	87-010-401-089	CAP,E 1-50 SME	SFR321	87-024-177-089	SFR 220K DIA.6 V<EXCEPT EZ>		
C950	87-014-073-089	CAP,PP 4700P-100 J<EXCEPT EZ>	SFR312	87-024-174-089	SFR 33K DIA.6 V<EZ>		
C952	87-010-197-089	C-CAP,S 0.01-25 B	SFR322	87-024-177-089	SFR 220K DIA.6 V<EXCEPT EZ>		
C953	87-010-197-089	C-CAP,S 0.01-25 B<EXCEPT EZ>	SFR322	87-024-174-089	SFR 33K DIA.6 V<EZ>		
C954	87-010-400-089	CAP,E 0.47-50 SME<EXCEPT EZ>	SFR371	87-024-175-089	SFR,47K DIA6 V		
C955	87-010-197-089	C-CAP,S 0.01-25 B	SFR372	87-024-175-089	SFR,47K DIA6 V		
C956	87-010-263-089	CAP,E 100-10 SME 5X11<EXCEPT EZ>	SFR401	87-024-175-089	SFR,47K DIA6 V<EZ>		
C957	87-010-315-089	C-CAP,S 27P-50 CH<EZ>	SFR402	87-024-175-089	SFR,47K DIA6 V<EZ>		
C958	87-010-197-089	C-CAP,S 0.01-25 B<EZ>	SFR722	87-024-352-089	SFR,4.7K DIA6 H<EXCEPT EZ>		
C960	87-010-196-089	C-CAP,S 0.1-25 F	SFR722	87-024-353-089	SFR,10K DIA6 H<EZ>		
C961	87-010-150-089	C-CAP,S 6P-50 CH<EXCEPT EZ>	TC721	87-011-253-089	TRIMMER,30P LAR		
C988	87-010-198-089	C-CAP,S 0.02-25 B	TC801	87-011-252-089	TRIMMER 10P LAR		
C999	87-010-196-089	C-CAP,S 0.1-25 F	TC802	87-011-252-089	TRIMMER 10P LAR		
CF741	87-030-354-019	VIB,CF BFU450C<EXCEPT EZ>	TC803	87-011-252-089	TRIMMER 10P LAR<EZ>		
CF801	87-008-261-089	FLTR SFE 10.7 MA5-A<EXCEPT EZ>	TC941	87-011-254-089	TRIMMER,20P LAR<EXCEPT EZ>		
CF801	87-008-423-089	CF,SFE 10.7 MS3G-A<EZ>	TC942	87-011-253-089	TRIMMER,30P LAR		
CF802	87-008-261-089	FLTR SFE 10.7 MA5-A<EXCEPT EZ>	VR501	82-NF5-660-019	VR,50KBX2 RK14K12A<EZ>		
CF802	82-785-747-089	CF,MS2 GHY,R<EZ>	W111	85-NF5-628-019	F-CABLE 7P-2.5		
D801	87-002-730-089	VARI-CAP SVC203SPA	X703	84-508-618-019	VIB,CER CSB 456 F/5		
D802	87-002-730-089	VARI-CAP SVC203SPA	X721	87-030-372-019	VIB,XTAL 7.2MHZ		
D803	87-002-730-089	VARI-CAP SVC203SPA					
D804	87-002-730-089	VARI-CAP SVC203SPA<EZ>					
FT510	83-NF5-632-019	CABLE FFC 6P-1.25	FRONT C.B				
IFT806	87-A50-018-019	COIL,FM IFT(4T)COI					
J241	87-099-678-019	JACK,6.3 W/S BLK	C201	87-010-196-089	C-CAP,S 0.1-25 F		
J261	87-A60-238-019	TERMINAL,SP 45 MSC	C203	87-012-155-089	C-CAP,S 180P-50 CH		
J281	87-099-802-019	JACK,PIN 3P BRW<EXCEPT EZ>	C204	87-010-313-089	C-CAP,S 18P-50 CH		
J281	87-099-474-019	JACK,PIN 3P BLK<EZ>	C205	87-010-314-089	C-CAP,S 22P-50 CH		
J501	87-099-715-019	JACK,PIN 2P<EXCEPT EZ>	C206	87-012-140-089	C-CAP,S 470P-50 CH<HK,EZ>		
J501	80-MT3-616-019	JACK,PIN 2P<EZ>	C206	87-018-127-089	CAP,TC-U 470P-50 B<700HE>		
J801	87-A60-202-019	TERMINAL,ANT 4P MSD-154V-02<HK,HE>	C207	87-018-209-089	CAP,TC-U 0.1-25 F		
J801	87-033-241-019	TERMINAL,ANT AJ-2039<EZ>	C211	87-010-197-089	C-CAP,S 0.01-25 B<HK,EZ>		
L261	87-003-383-019	COIL,1UH-S	C213	87-018-211-089	CAP,TC-U 0.01-50 Z FS<700HE>		
L262	87-003-383-019	COIL,1UH-S	C214	87-018-211-089	CAP,TC-U 0.01-50 Z FS<700HE>		
L351	87-A50-049-019	COIL,TRAP 85K	C251	87-010-560-049	CAP,E 10-50 GAS		
L352	87-A50-049-019	COIL,TRAP 85K	C252	87-010-263-049	CAP,E 100-10		
L371	87-007-342-019	COIL,OSC 85K BIAS	C253	87-010-248-049	CAP,E 220-10 SME		
L701	87-A50-027-019	COIL,1 POLE MPX (TOK)<EZ>	C255	87-010-494-049	CAP,E 1-50 GAS		
L702	87-A50-027-019	COIL,1 POLE MPX (TOK)<EZ>	C256	87-010-494-049	CAP,E 1-50 GAS		
L741	87-A50-015-019	COIL,FM DET(TOK)	C270	87-010-196-089	C-CAP,S 0.1-25 F<HK,EZ>		
L742	87-A90-052-019	FLTR,CFMT-450A(TOK)<EXCEPT EZ>	C271	87-010-196-089	C-CAP,S 0.1-25 F<HK,EZ>		
L742	87-A90-051-019	FLTR,CFAZ-450(TOK)<EZ>	C272	87-010-196-089	C-CAP,S 0.1-25 F<HK,EZ>		
L770	87-003-102-089	COIL,10UH	C273	87-010-196-089	C-CAP,S 0.1-25 F<HK,EZ>		
L790	87-005-564-089	C-COIL,S 2,2UH K	C274	87-010-322-089	C-CAP,S 100P-50 CH<HK,EZ>		

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C275	87-010-196-089		C-CAP,S 0.1-25 F<HK,EZ>	L204	87-003-098-089		COIL, 2.2UH M LAL02<HK,EZ>
C276	87-010-553-089		CAP,E 47-16 5L<HK,EZ>	L205	87-003-098-089		COIL, 2.2UH M LAL02<HK,EZ>
C277	87-018-119-089		CAP,TC-U 100P-50 KBU<HK,EZ>	L801	87-005-446-089		COIL, 150UH FLR50<700HE>
C351	87-010-490-049		CAP ELECT 0.1-50	LED401	87-070-201-089		LED,SLP9118C-51-S-T1
C352	87-010-490-049		CAP ELECT 0.1-50	LED402	87-070-201-089		LED,SLP9118C-51-S-T1
C353	87-010-408-049		CAP,E 47-50 SME	LED403	87-070-201-089		LED,SLP9118C-51-S-T1
C401	87-010-198-089		C-CAP,S 0.022-25 B	LED404	87-070-201-089		LED,SLP9118C-51-S-T1
C508	87-010-060-049		CAP,E 100-16 7L	LED411	87-070-199-089		LED,SLP738F-81-S-T1
C601	87-010-405-049		CAP,E 10-50 SME	LED412	87-070-199-089		LED,SLP738F-81-S-T1
C602	87-010-248-049		CAP,E 220-10 SME	LED413	87-070-199-089		LED,SLP738F-81-S-T1
C603	87-010-196-089		C-CAP,S 0.1-25 F	LED414	87-070-199-089		LED,SLP738F-81-S-T1
C604	87-010-186-089		C-CAP,S 4700P-50 B	LED415	87-070-199-089		LED,SLP738F-81-S-T1
C605	87-010-545-049		CAP,E 0.22-50 SME	LED416	87-070-199-089		LED,SLP738F-81-S-T1
C606	87-010-321-089		C-CAP,S 82P-50 CH	LED417	87-070-199-089		LED,SLP738F-81-S-T1
C607	87-010-196-089		C-CAP,S 0.1-25 F	LED418	87-070-199-089		LED,SLP738F-81-S-T1
C608	87-010-196-089		C-CAP,S 0.1-25 F	LED421	87-017-784-080		LED,SEL 1550CM TP8
C609	87-010-177-089		C-CAP,S 820P-50 SL	LED422	87-017-784-080		LED,SEL 1550CM TP8
C651	87-010-494-049		CAP,E 1-50 GAS	LED423	87-017-784-080		LED,SEL 1550CM TP8
C652	87-010-196-089		C-CAP,S 0.1-25 F	LED424	87-017-784-080		LED,SEL 1550CM TP8
C653	87-010-491-049		CAP,E 0.22-50 GAS	LED425	87-017-784-080		LED,SEL 1550CM TP8
C654	87-010-196-089		C-CAP,S 0.1-25 F	LED426	87-017-784-080		LED,SEL 1550CM TP8
C655	87-010-404-049		CAP,E 4.7-50 SME<HK,EZ>	LED431	87-070-278-019		LED,SLZ-738A-24-S
C656	87-010-404-049		CAP,E 4.7-50 SME<HK,EZ>	LED432	87-070-278-019		LED,SLZ-738A-24-S
C701	87-010-993-089		C-CAP,S0.056-25 B K<700HE>	LED433	87-070-278-019		LED,SLZ-738A-24-S
C702	87-010-993-089		C-CAP,S0.056-25 B K<700HE>	LED434	87-070-278-019		LED,SLZ-738A-24-S
C703	87-016-460-089		C-CAP,S0.022-16 R K<700HE>	LED435	87-070-290-019		LED,SLZ 936-30-S
C704	87-010-598-089		C-CAP,S0.022-16 R K<700HE>	LED436	87-070-290-019		LED,SLZ 936-30-S
C705	87-016-081-089		C-CAP,S 0.1-16 RK<700HE>	S301	87-A90-095-089		SW,TACT EVQ11GD4M
C706	87-010-260-049		CAP,E 47-25 SME<700HE>	S302	87-A90-095-089		SW,TACT EVQ11GD4M
C707	87-010-182-089		C-CAP,S 2200P-50 B K<700HE>	S303	87-A90-095-089		SW,TACT EVQ11GD4M
C708	87-010-182-089		C-CAP,S 2200P-50 B K<700HE>	S304	87-A90-095-089		SW,TACT EVQ11GD4M
C709	87-010-491-049		CAP,E 0.22-50 GAS<700HE>	S305	87-A90-095-089		SW,TACT EVQ11GD4M
C710	87-010-491-049		CAP,E 0.22-50 GAS<700HE>	S306	87-A90-095-089		SW,TACT EVQ11GD4M
C711	87-010-494-049		CAP,E 1-50 GAS<700HE>	S307	87-A90-095-089		SW,TACT EVQ11GD4M
C712	87-010-494-049		CAP,E 1-50 GAS<700HE>	S313	87-A90-095-089		SW,TACT EVQ11GD4M
C713	87-010-260-049		CAP,E 47-25 SME<700HE>	S314	87-A90-095-089		SW,TACT EVQ11GD4M
C714	87-010-405-049		CAP,E 10-50 SME<700HE>	S315	87-A90-095-089		SW,TACT EVQ11GD4M
C715	87-010-384-049		CAP,E 100-25 SME	S316	87-A90-095-089		SW,TACT EVQ11GD4M
C716	87-010-196-089		C-CAP,S 0.1-25 F<700HE>	S317	87-A90-095-089		SW,TACT EVQ11GD4M
C801	87-010-494-049		CAP,E 1-50 GAS<700HE>	S318	87-A90-095-089		SW,TACT EVQ11GD4M
C802	87-010-494-049		CAP,E 1-50 GAS<700HE>	S319	87-A90-095-089		SW,TACT EVQ11GD4M
C805	87-010-248-049		CAP,E 220-10 SME<700HE>	S320	87-A90-095-089		SW,TACT EVQ11GD4M
C806	87-010-494-049		CAP,E 1-50 GAS<700HE>	S321	87-A90-095-089		SW,TACT EVQ11GD4M
C807	87-010-494-049		CAP,E 1-50 GAS<700HE>	S322	87-A90-095-089		SW,TACT EVQ11GD4M
C808	88-700-860-819		CAP,M 0.068-50 J<700HE>	S323	87-A90-095-089		SW,TACT EVQ11GD4M
C809	87-010-186-089		C-CAP,S 4700P-50 B K<700HE>	S324	87-A90-095-089		SW,TACT EVQ11GD4M
C810	88-700-860-819		CAP,M 0.068-50 J K<700HE>	S325	87-A90-095-089		SW,TACT EVQ11GD4M
C811	87-010-101-049		CAP,E 220-16 SME<700HE>	S326	87-A90-095-089		SW,TACT EVQ11GD4M
C812	87-010-152-089		C-CAP,S 8P-50 CH<700HE>	S327	87-A90-095-089		SW,TACT EVQ11GD4M
C813	87-010-152-089		C-CAP,S 8P-50 CH<700HE>	S328	87-A90-095-089		SW,TACT EVQ11GD4M
C814	87-010-101-049		CAP,E 220-16 SME<700HE>	S329	87-A90-095-089		SW,TACT EVQ11GD4M
C816	87-010-177-089		C-CAP,S 820P-50 SL<700HE>	S330	87-A90-095-089		SW,TACT EVQ11GD4M
C817	87-010-196-089		C-CAP,S 0.1-25 F<700HE>	S332	87-A90-095-089		SW,TACT EVQ11GD4M
C818	87-010-186-089		C-CAP,S 4700P-50 B K<700HE>	S333	87-A90-095-089		SW,TACT EVQ11GD4M
C819	87-010-196-089		C-CAP,S 0.1-25 F<700HE>	VR601	81-MX4-637-019		VR 10KA RK11K1130
C820	87-018-122-089		CAP,TC-U 180P-50B<700HE>	VR801	83-NM1-627-019		VR,10KB RK11K1
C851	87-010-196-089		C-CAP,S 0.1-25 F				
C852	87-010-194-089		C-CAP,S 0.047-25 F				
C853	87-010-406-049		CAP,E 22-50 SME	MVR C.B			
C854	87-010-560-049		CAP,E 10-50 GAS				
EMI600	87-008-372-089		FLIR EMI BLOIRNI	C701	87-010-993-089		C-CAP,S0.056-25 B<HK,EZ>
FL301	86-NF6-560-019		FL,BJ478GK<HK,EZ>	C702	87-010-993-089		C-CAP,S0.056-25 B<HK,EZ>
FL301	86-NF6-609-019		FL,8-ST-18GK<700HE>	C703	87-016-460-089		C-CAP,S0.22-16 KB<HK,EZ>
FT101	85-NF5-615-019		CABLE,FFC 15P-1.25	C704	87-016-460-089		C-CAP,S0.22-16 KB<HK,EZ>
FT102	88-913-261-119		CABLE FFC,13P-1.25	C705	87-016-081-089		C-CAP,S 0.1-16 RK<HK,EZ>
J601	87-A60-284-019		JACK,3.5 MO(MSC)	C706	87-010-260-049		CAP,E 47-25 SME<HK,EZ>
J602	87-A60-284-019		JACK,3.5 MO(MSC)	C707	87-010-182-089		C-CAP,S 2200P-50 B<HK,EZ>
L201	87-007-340-019		COIL,CLOCK 4.19MHZ	C708	87-010-182-089		C-CAP,S 2200P-50 B<HK,EZ>
L202	87-003-098-089		COIL,2.2UH M LAL02<700HE>	C709	87-010-491-049		CAP,E 0.22-50 GAS<HK,EZ>
L203	87-003-098-089		COIL,2.2UH M LAL02	C710	87-010-491-049		CAP,E 0.22-50 GAS<HK,EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C711	87-010-401-049		CAP,E 1-50 GAS<HK,EZ>				AC C.B
C712	87-010-401-049		CAP,E 1-50 GAS<HK,EZ>				C101 87-010-428-089 C-CAP,S 0.015-25 B<EZ>
C713	87-010-260-049		CAP,E 47-25 SME<HK,EZ>				R111 87-022-184-089 RES,METAL 0.33-1W
C714	87-010-405-049		CAP,E 10-50 SME<HK,EZ>				R112 87-022-184-089 RES,METAL 0.33-1W
C716	87-010-196-089		C-CAP,S 0.1-25 F<HK,EZ>				
C719	87-018-205-089		CAP,TC-U 0.022-25 ZF<HK>				PT C.B
C720	87-018-205-089		CAP,TC-U 0.022-25 ZF<HK>				▲ 82-304-743-019 TERMINAL,1P
C751	87-010-196-089		C-CAP,S 0.1-25 F<HK,EZ>				▲ F101 87-035-363-019 FUSE,1.25A 250V T
C801	87-010-494-049		CAP,E 1-50 GAS<HK,EZ>				▲ F101 87-035-366-019 FUSE,2.5A 250V T 700HF
C802	87-010-494-049		CAP,E 1-50 GAS<HK,EZ>				▲ F101 87-035-367-019 FUSE,3.15A 250V T E<HK>
C803	87-010-185-089		C-CAP,S 3900P-50 KB<HK>				▲ FC101 87-033-213-089 CLAMP FUSE SMK
C804	87-010-185-089		C-CAP,S 3900P-50 KB<HK>				
C805	87-010-248-049		CAP,E 220-10 SME<HK,EZ>				▲ FC102 87-033-213-089 CLAMP FUSE SMK
C806	87-010-494-049		CAP,E 1-50 GAS<HK,EZ>				▲ PT101 86-NF6-631-019 PT,6NF-6 H<HK>
C807	87-010-494-049		CAP,E 1-50 GAS<HK,EZ>				▲ PT101 86-NF6-632-019 PT,6NF-6 EK<EZ>
C808	88-700-860-819		CAP,M 0.068-50 J<HK,EZ>				▲ PT101 86-NF6-633-019 PT,6NF-6 HR<700HE>
C809	87-010-186-089		C-CAP,S 4700P-50 B<HK,EZ>				▲ SW101 87-A90-165-019 SW,SL 1-2-3<EXCEPT EZ>
C810	88-700-860-819		CAP,M 0.068-50 J<HK,EZ>				
C811	87-010-101-049		CAP,E 220-16 SME<HK,EZ>				
C812	87-010-152-089		C-CAP,S 8P-50 CH<HK,EZ>				
C813	87-010-152-089		C-CAP,S 8P-50 CH<HK,EZ>				DECK C.B
C814	87-010-101-049		CAP,E 220-16 SME<HK,EZ>				SFR1 87-024-581-089 SFR,3.3K DIA 6H
C816	87-010-177-089		C-CAP,S 820P-50 SL<HK,EZ>				SOL1 82-ZM1-618-310 SOL ASSY,27
C817	87-010-196-089		C-CAP,S 0.1-25 F<HK,EZ>				SOL2 82-ZM1-626-310 SOL ASSY,27K
C818	87-010-186-089		C-CAP,S 4700P-50 B<HK,EZ>				SW1 87-036-378-019 SW,PUSH 1-1-1 SH2
C820	87-012-155-089		C-CAP,S 180P-50 CH<HK,EZ>				SW2 87-036-378-019 SW,PUSH 1-1-1 SH2
L801	87-005-446-089		COIL,150UH FLR50<HK,EZ>				SW3 87-036-378-019 SW,PUSH 1-1-1 SH2
MVR701	86-NF6-652-019		VR,MOT EUWMGJ035B5<HK,EZ>				SW4 87-036-378-019 SW,PUSH 1-1-1 SH2
MVR701	86-NF6-650-019		VR,MOT 50KBX2 RK 16812<700HE>				SW5 87-036-378-019 SW,PUSH 1-1-1 SH2
							SW6 87-036-378-019 SW,PUSH 1-1-1 SH2
							SW8 87-036-378-019 SW,PUSH 1-1-1 SH2
KEY C.B							
HEAD-1 C.B							
S308	87-A90-095-089		SW,TACT EVQ11GD4M				
S309	87-A90-095-089		SW,TACT EVQ11GD4M				
S310	87-A90-095-089		SW,TACT EVQ11GD4M				
S311	87-A90-095-089		SW,TACT EVQ11GD4M				
S312	87-A90-095-089		SW,TACT EVQ11GD4M				
HEAD-2 C.B							

TRANSISTOR ILLUSTRATION



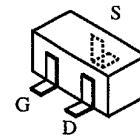
2SA1296GR
2SC3266GR
2SC2878A
KTA1266GR
KTC3198GR



2SA952K
2SD655E
CSD655E
2SC2001K



DTA114YS
DTA114ES
DTA144ES
DTA143ES
DTC144ES



2SK543
2SK360E



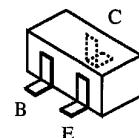
2SK246BL



2SC3331T



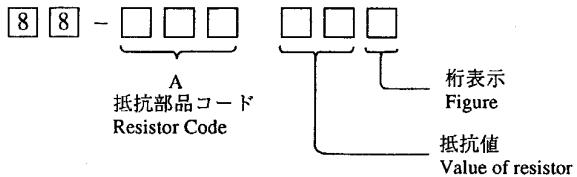
2SB1370E



2SA1162GR
2SC2712GR
2SC2714(O)

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

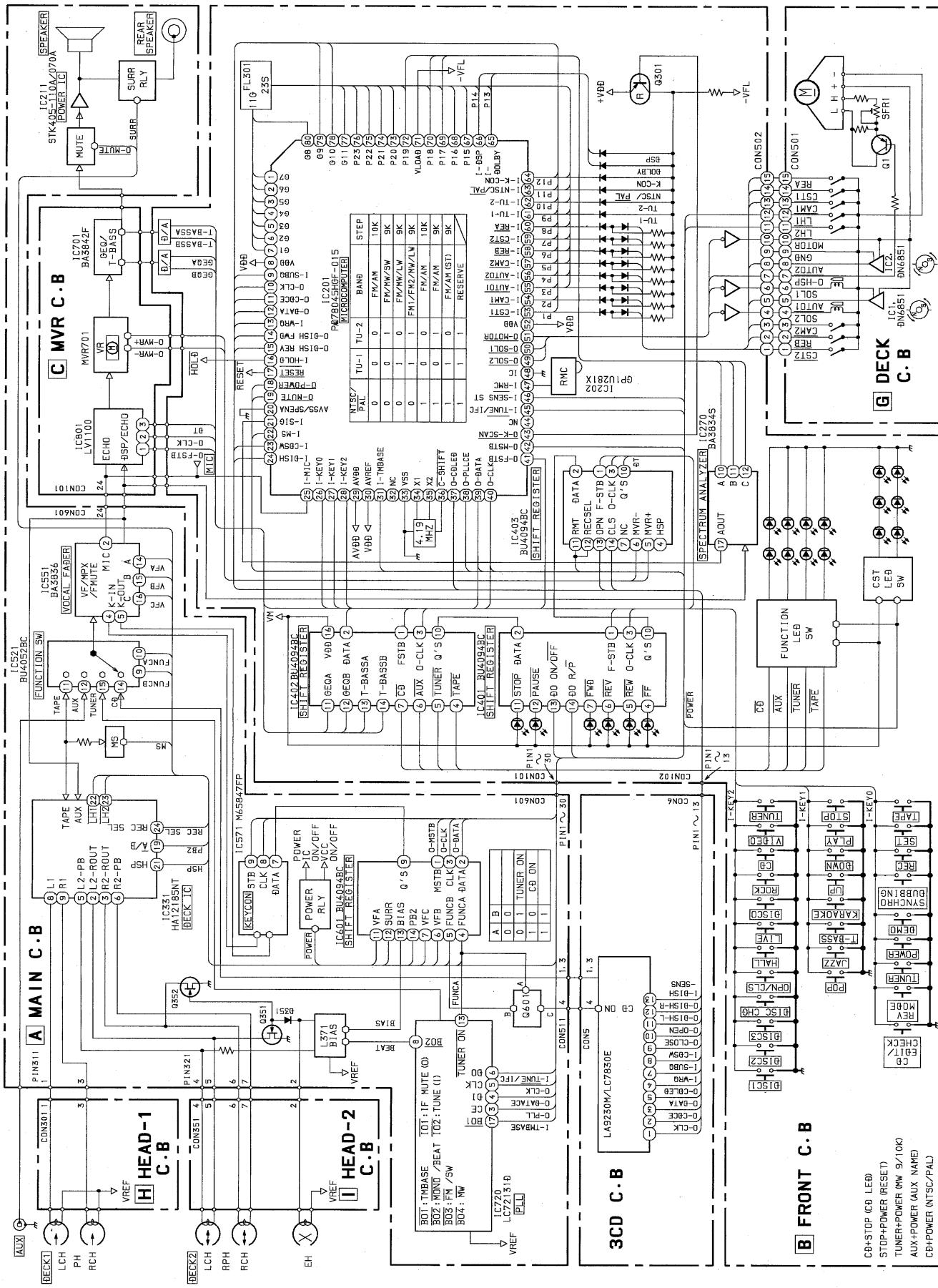
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



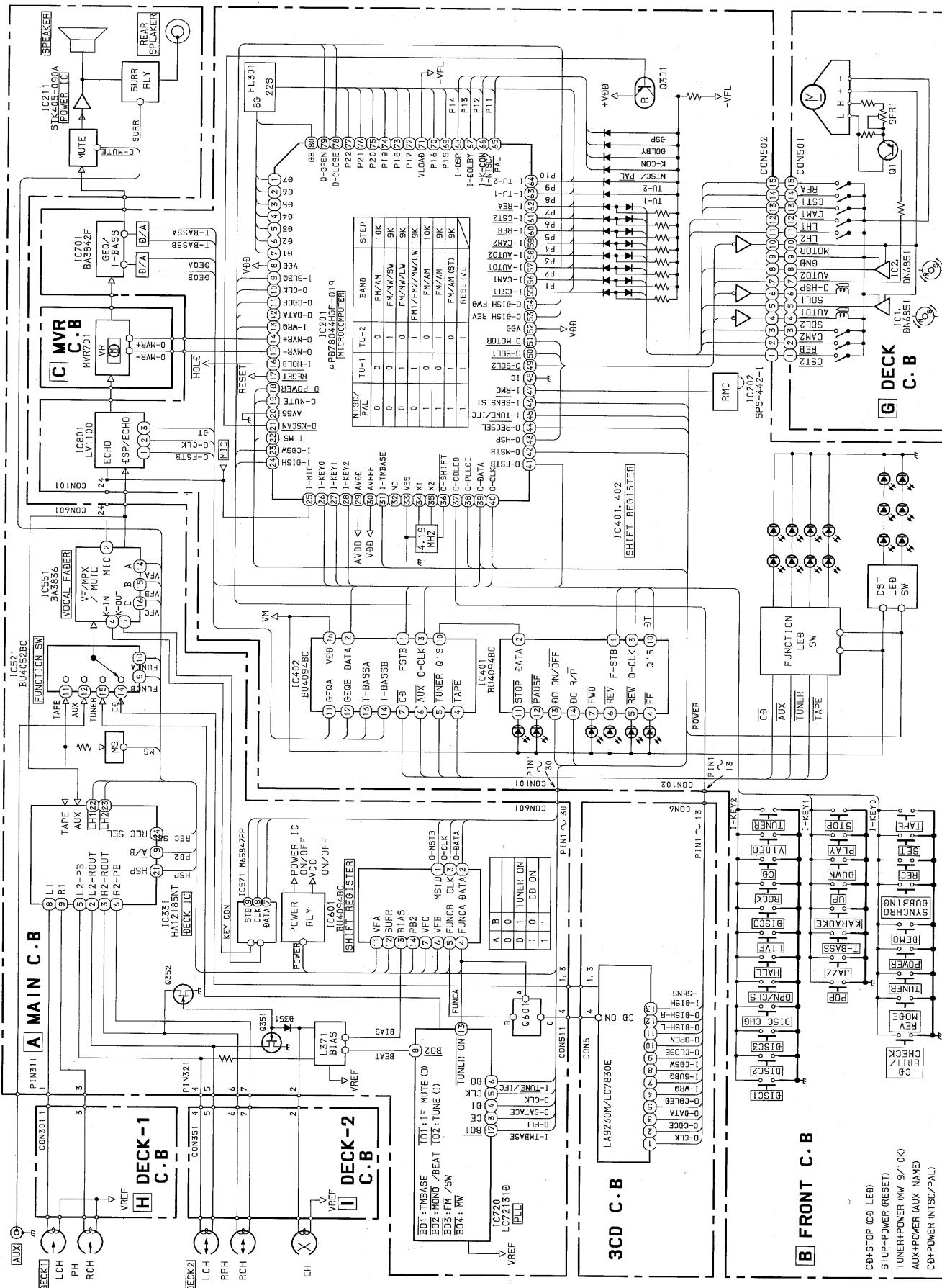
チップ抵抗
Chip resistor

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

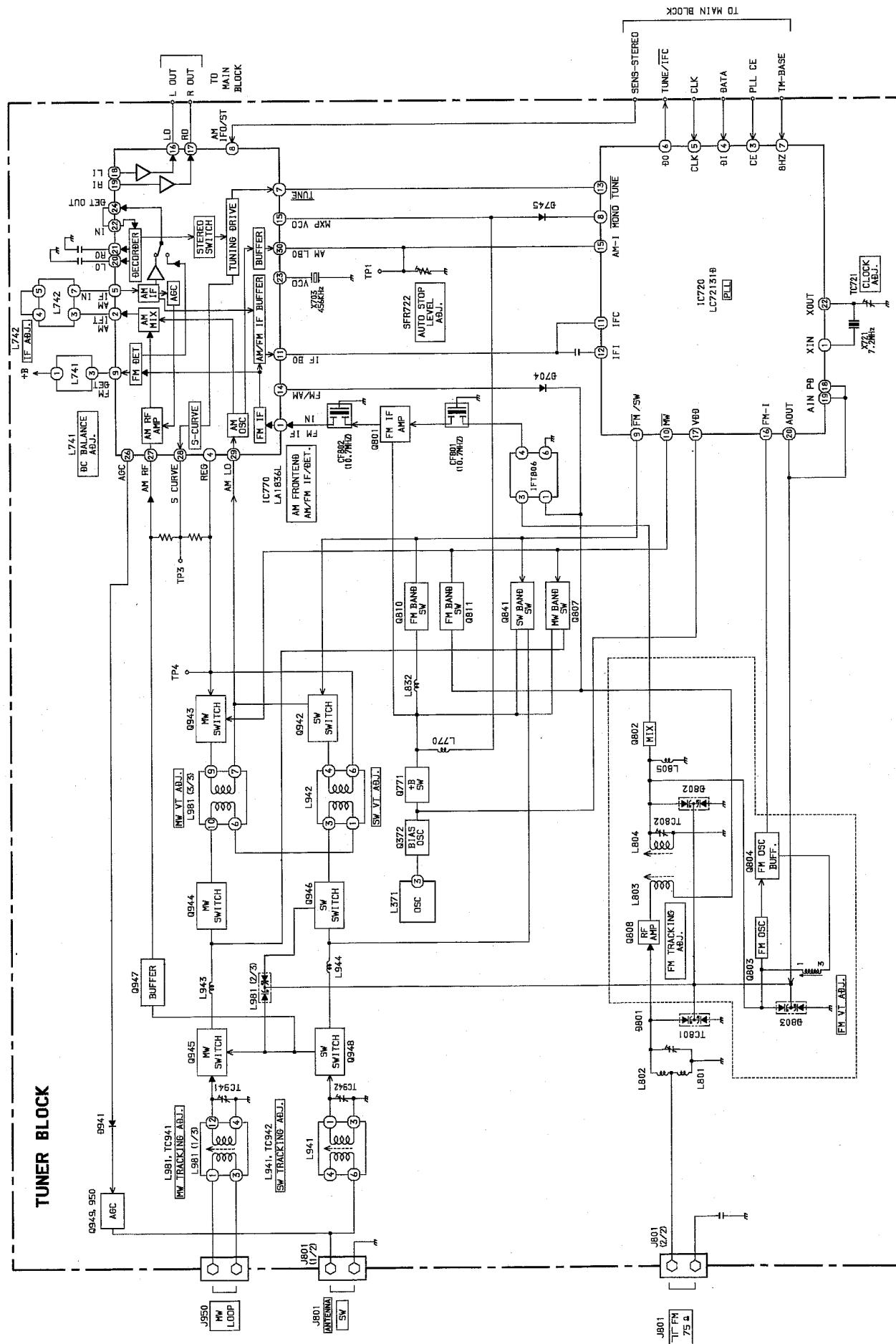
BLOCK DIAGRAM - 1 (MAIN / FRONT : HK, EZ)



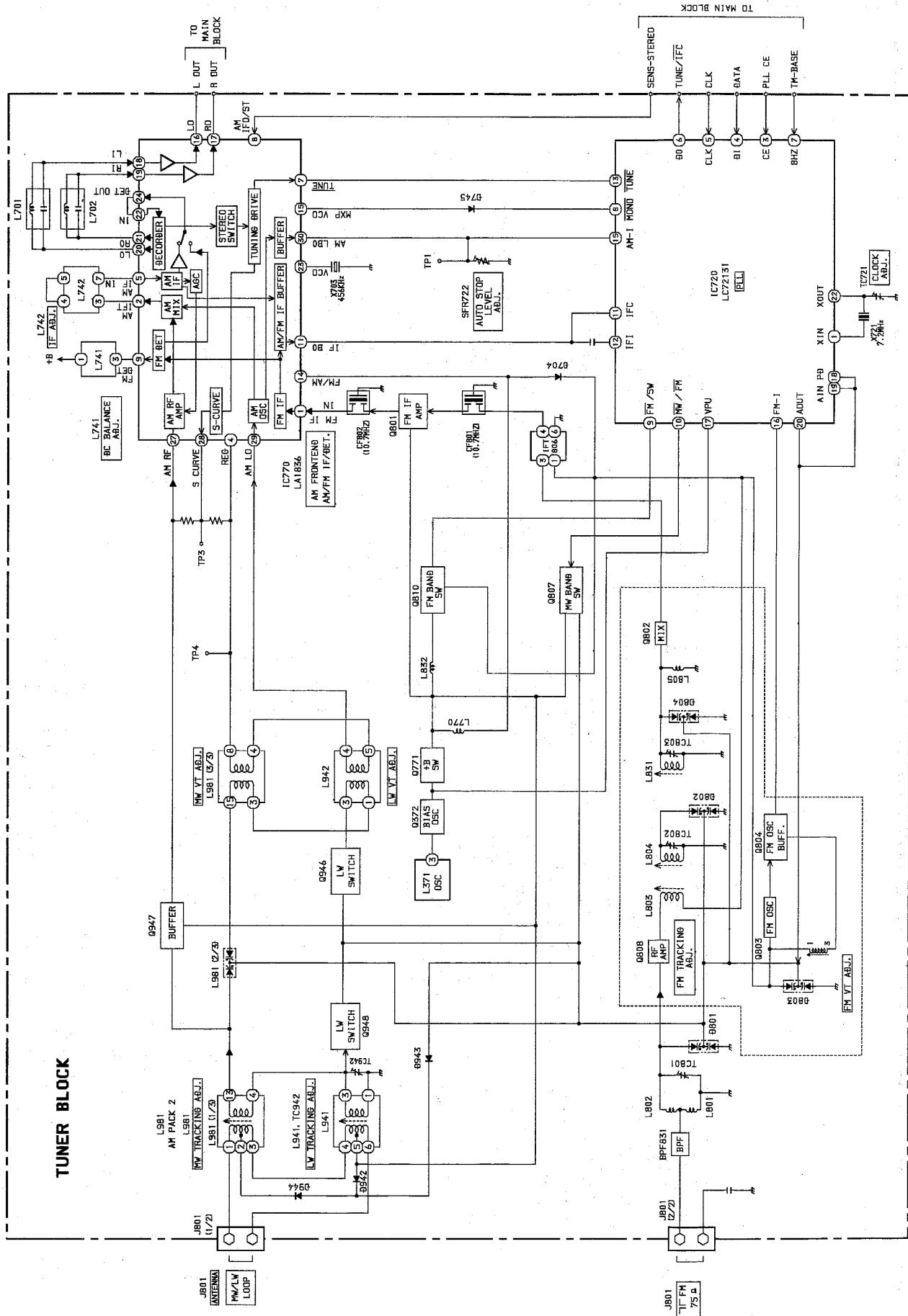
BLOCK DIAGRAM - 2 (MAIN / FRONT : HE)



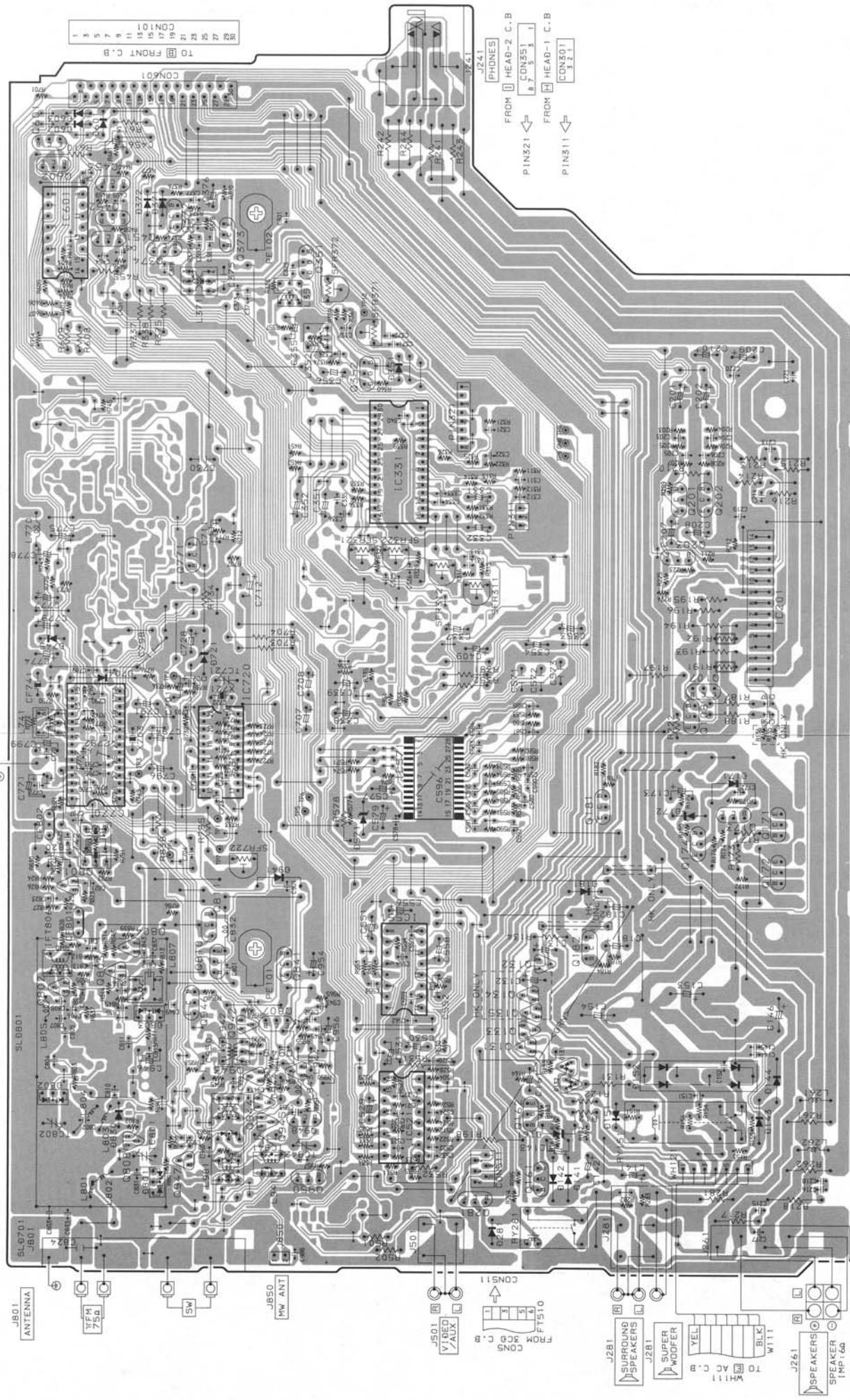
BLOCK DIAGRAM – 3 (TUNER : HK, HE)



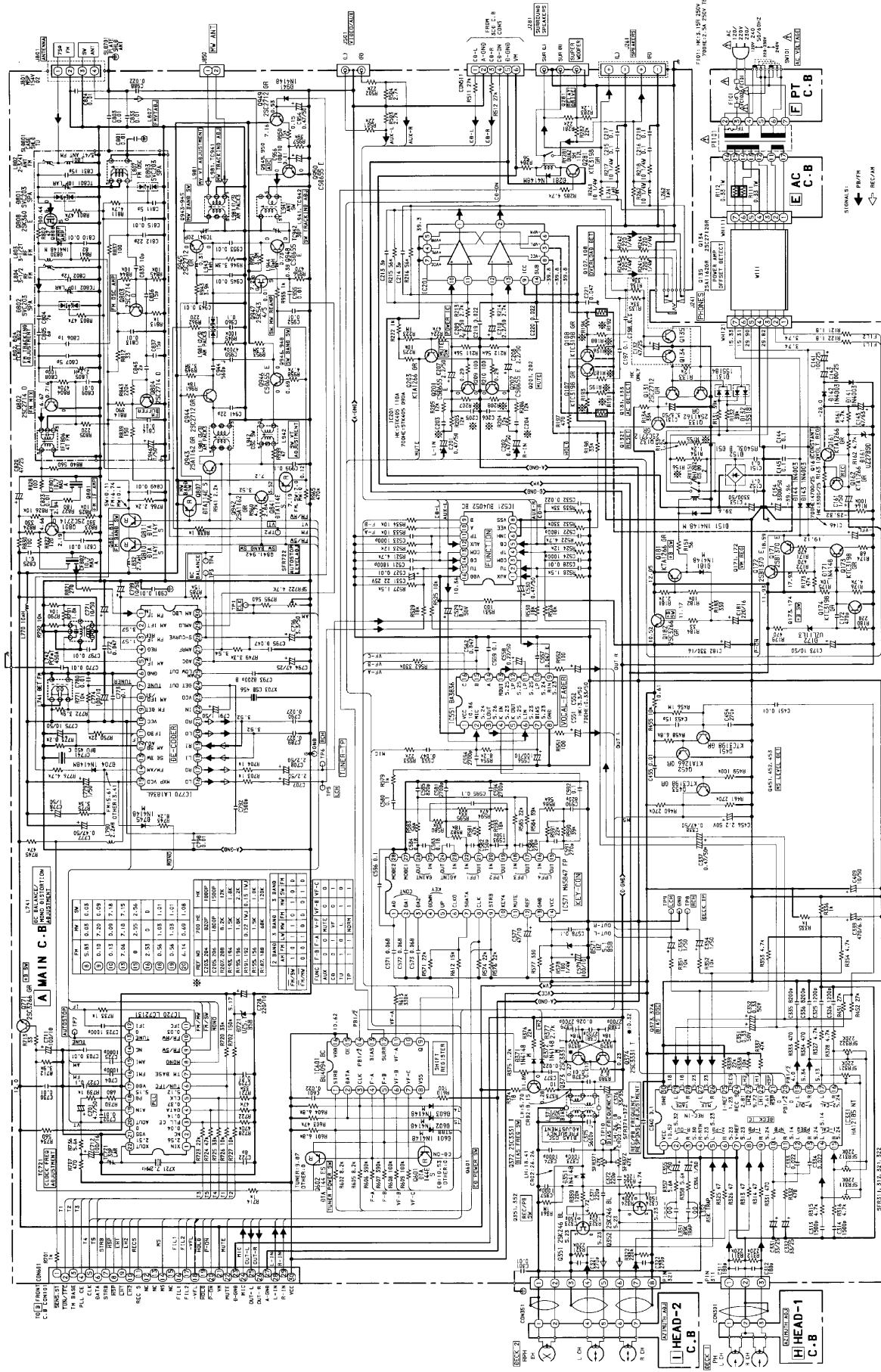
BLOCK DIAGRAM – 4 (TUNER : EZ)

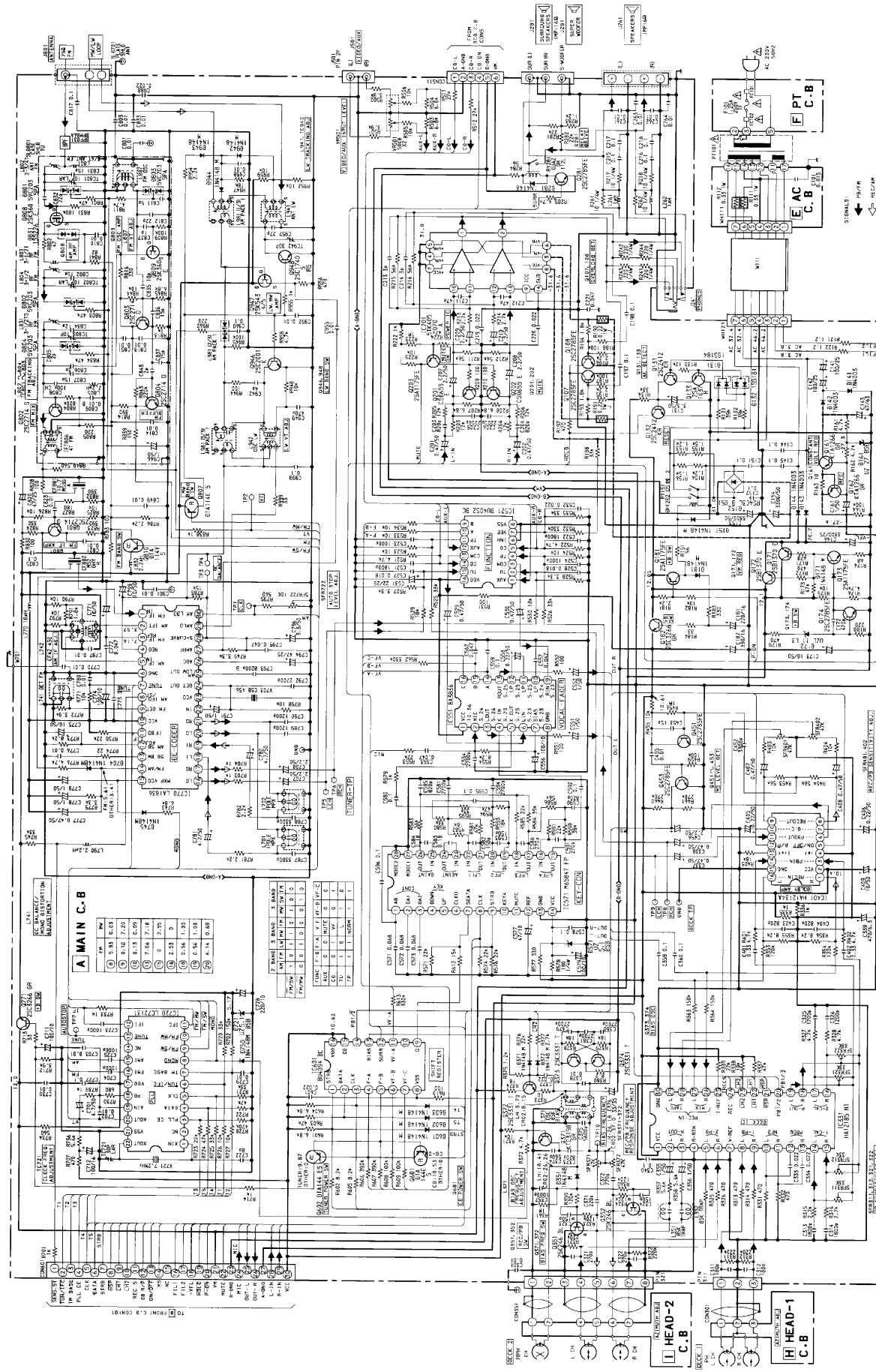


MAIN C. B

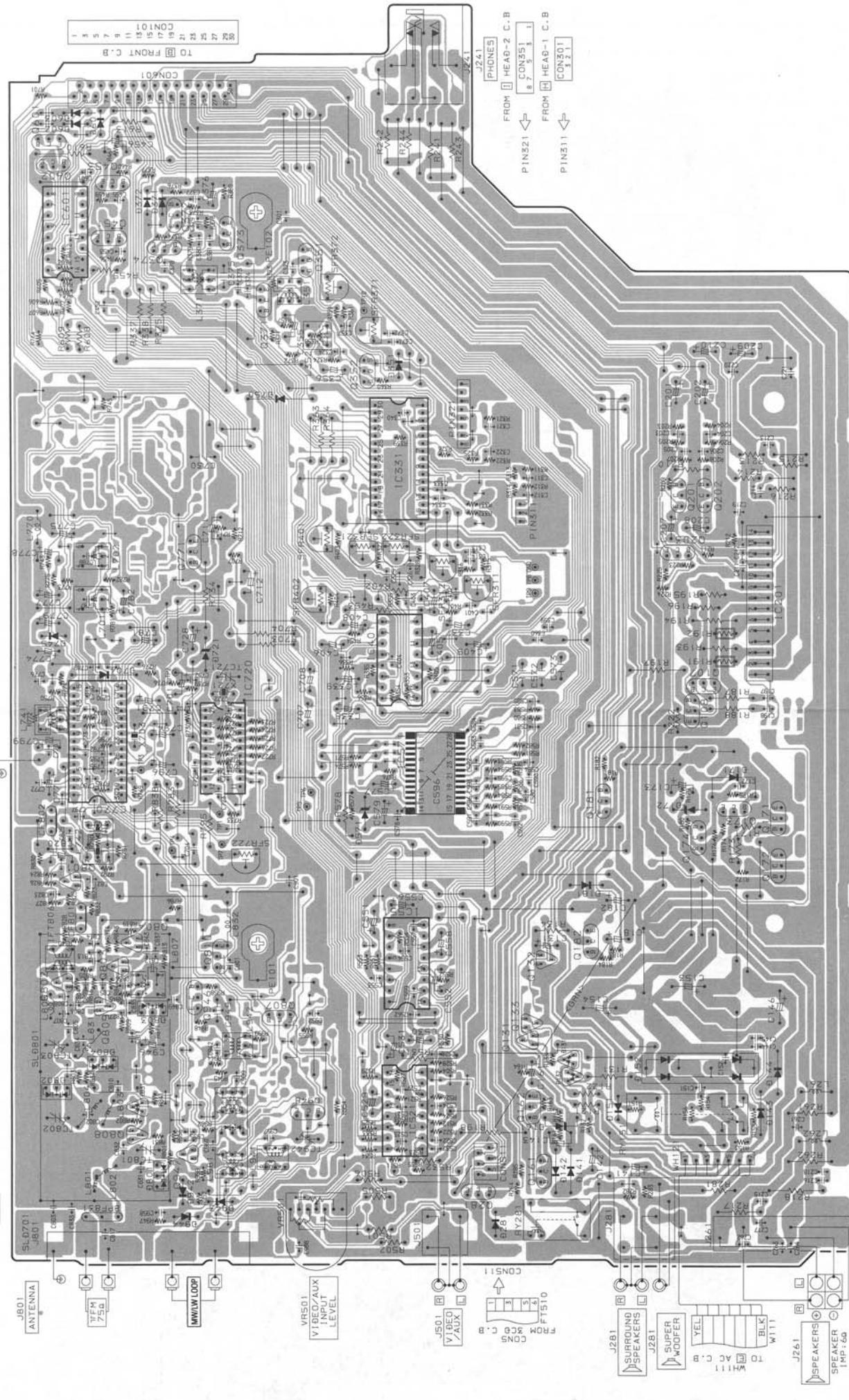


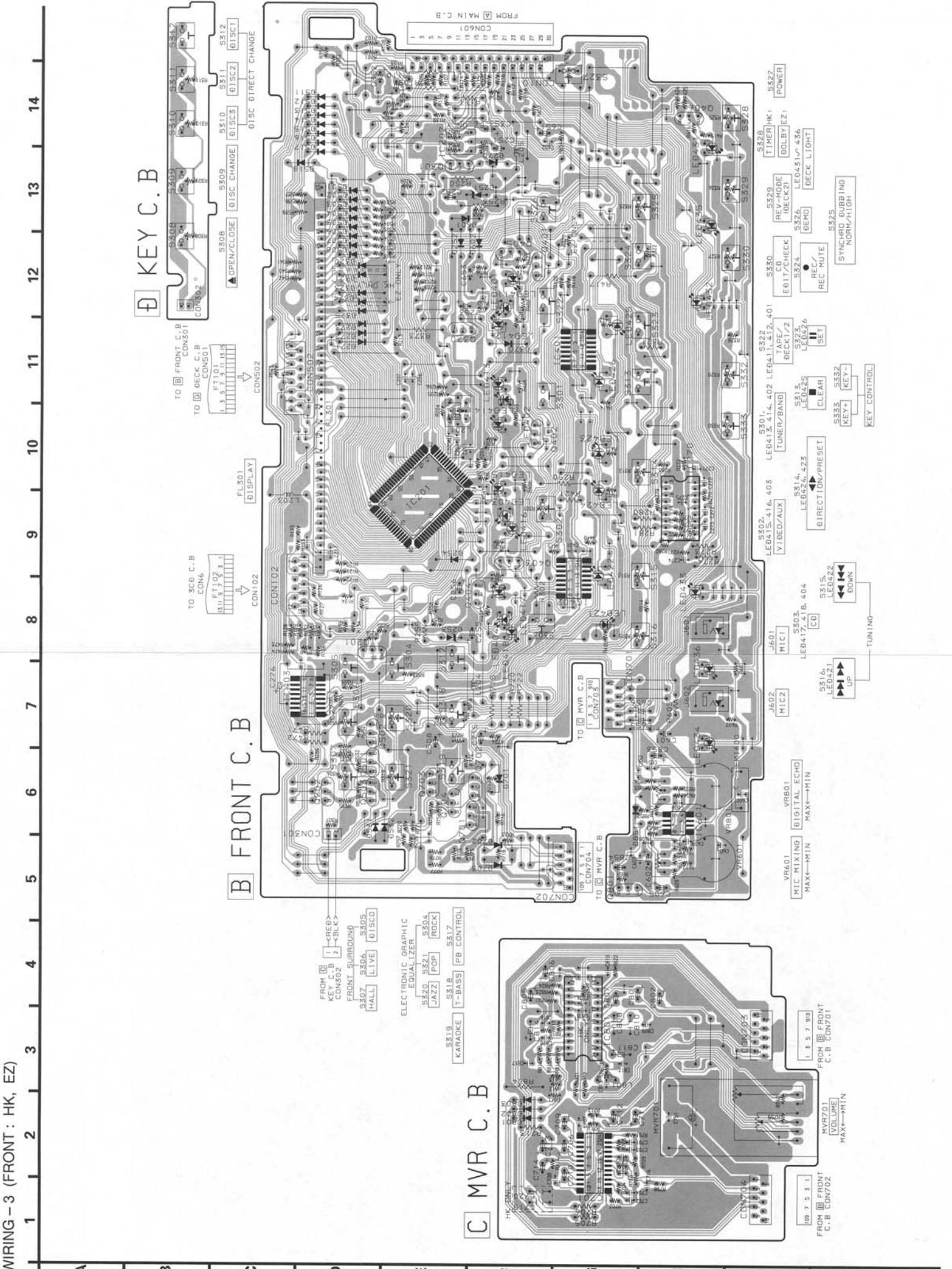
SCHEMATIC DIAGRAM – 1 (MAIN : HK, HE)



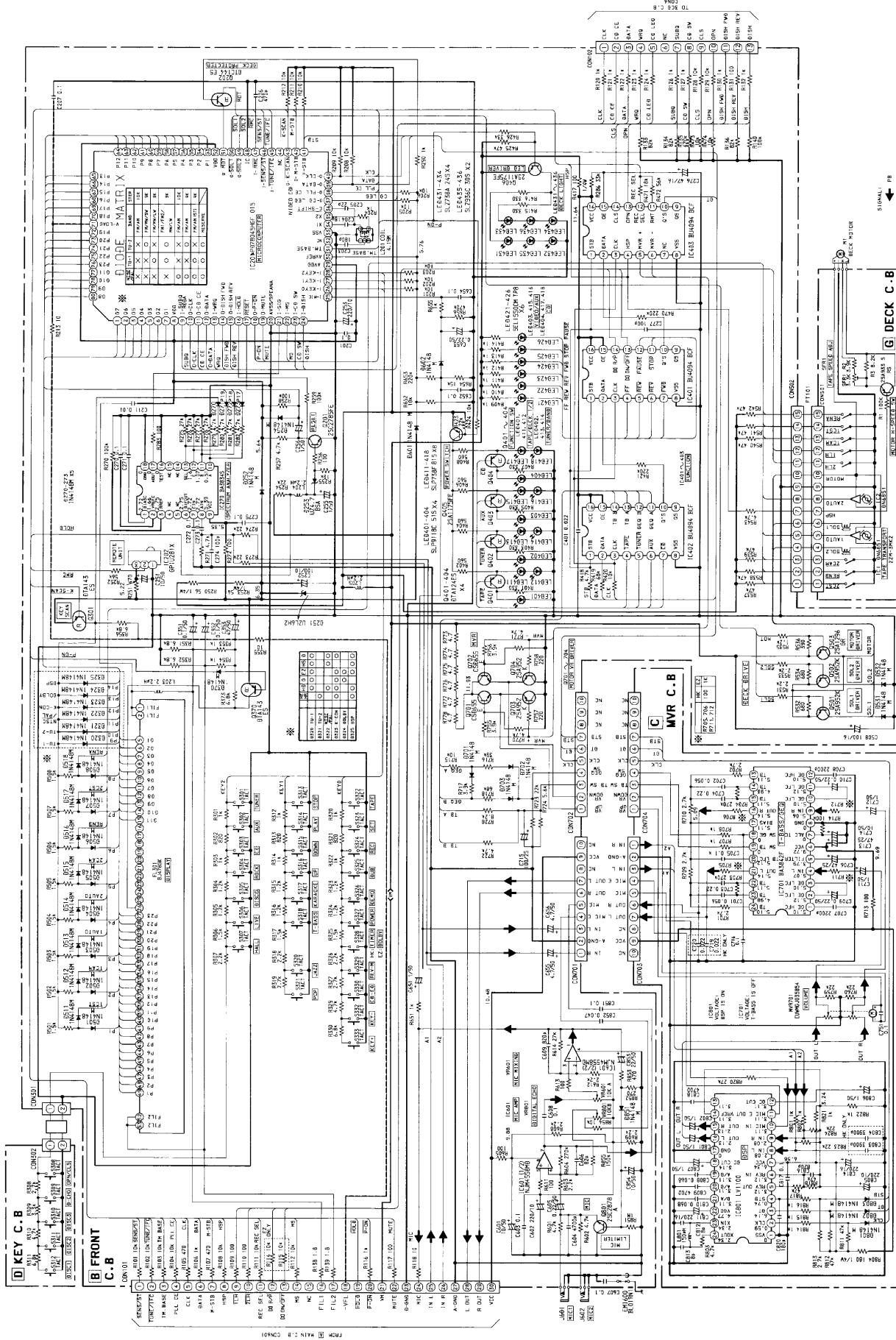


MAIN C. B

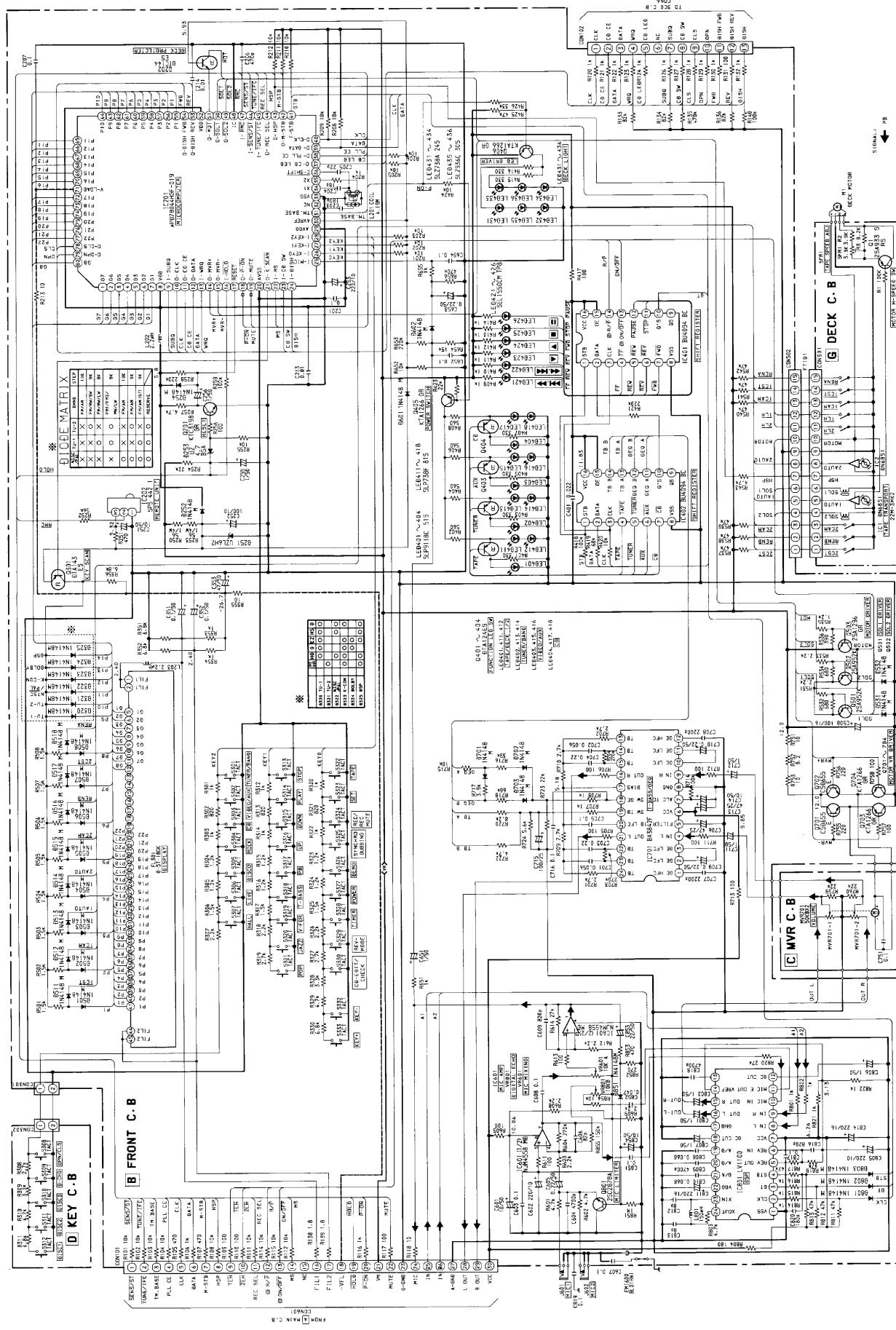




SCHEMATIC DIAGRAM - 3 (FRONT : HK, EZ)



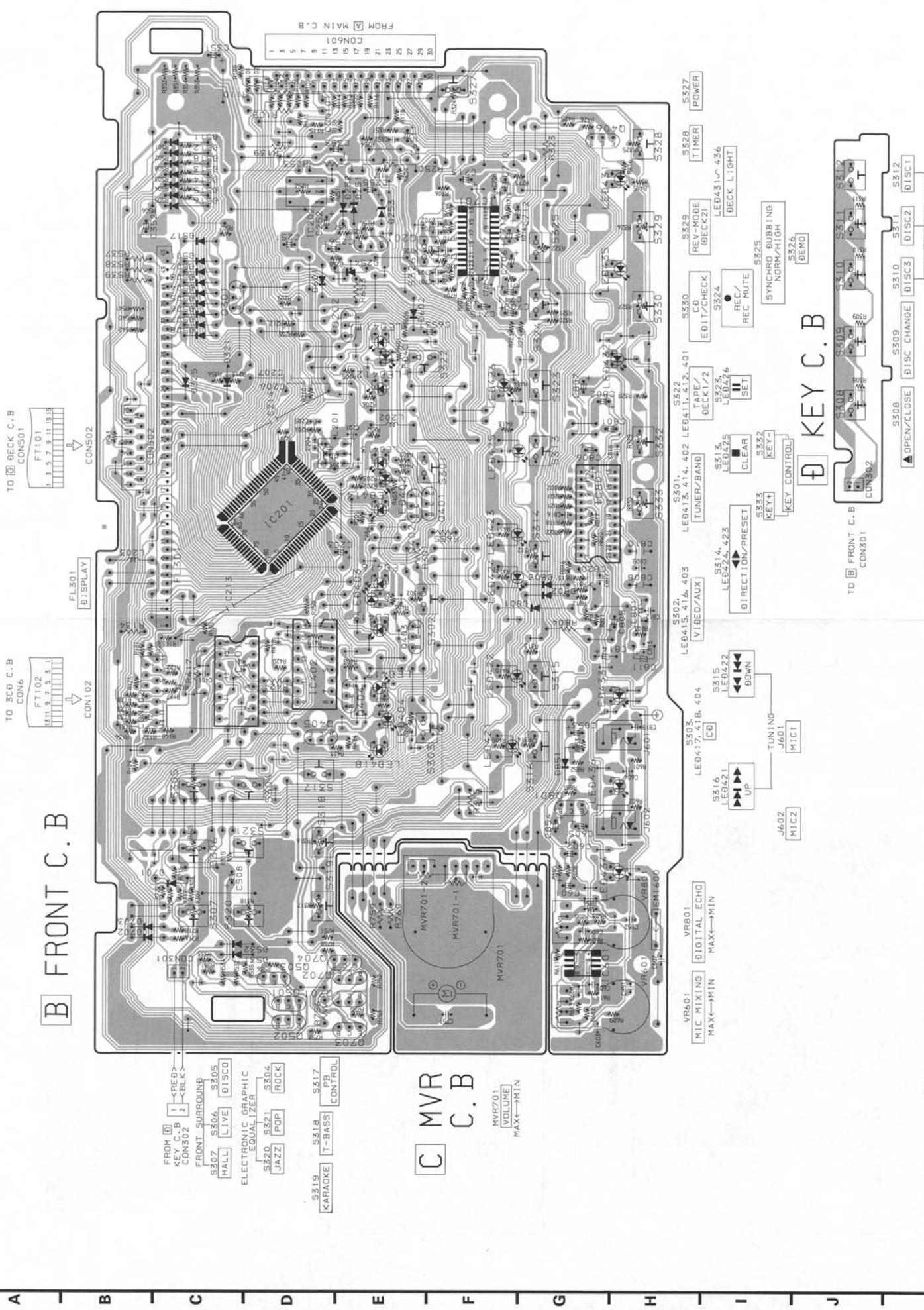
SCHEMATIC DIAGRAM - 4 (FRONT : HE)



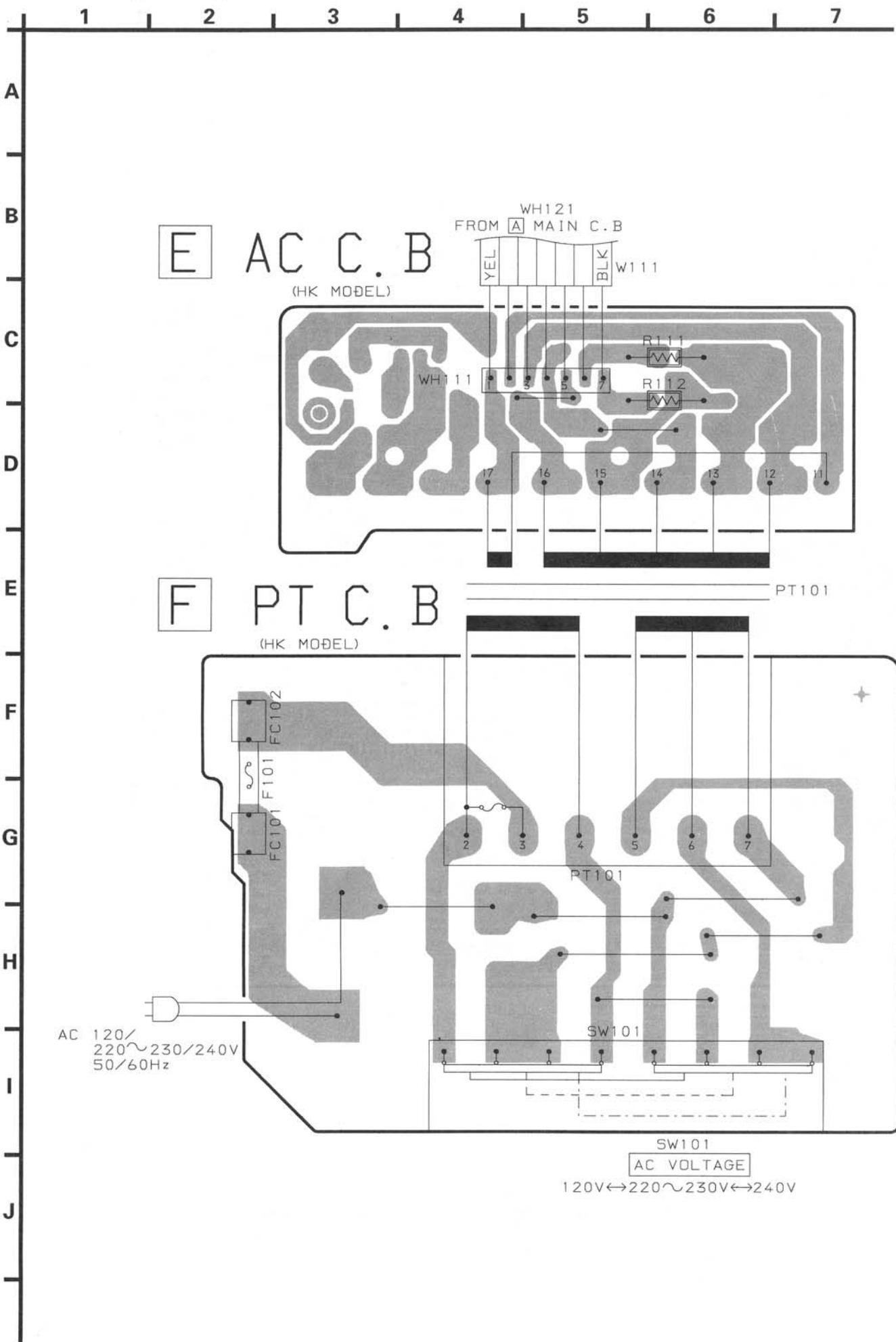
WIRING - 4 (FRONT : HE)

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

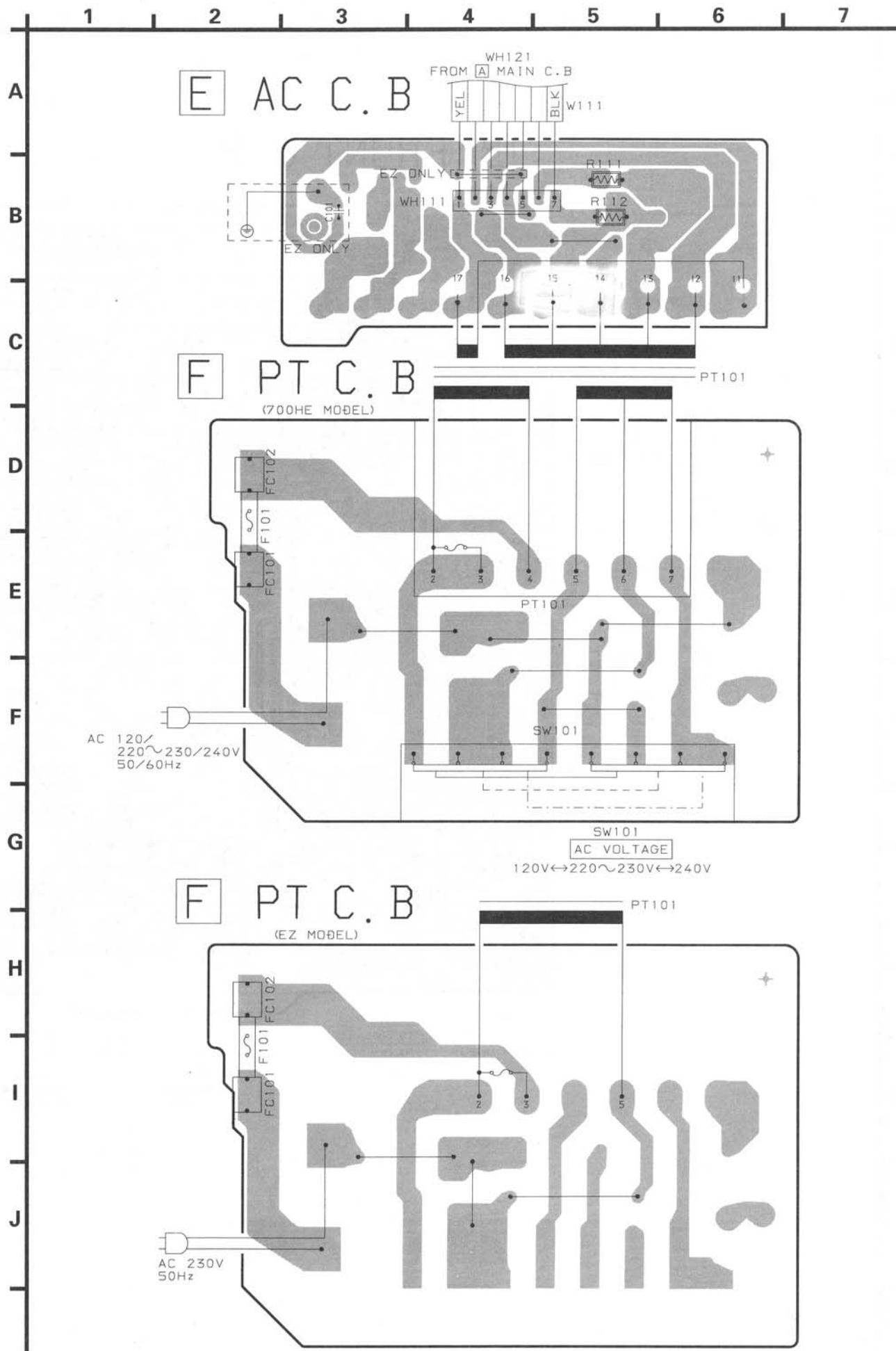
FRONT C. B



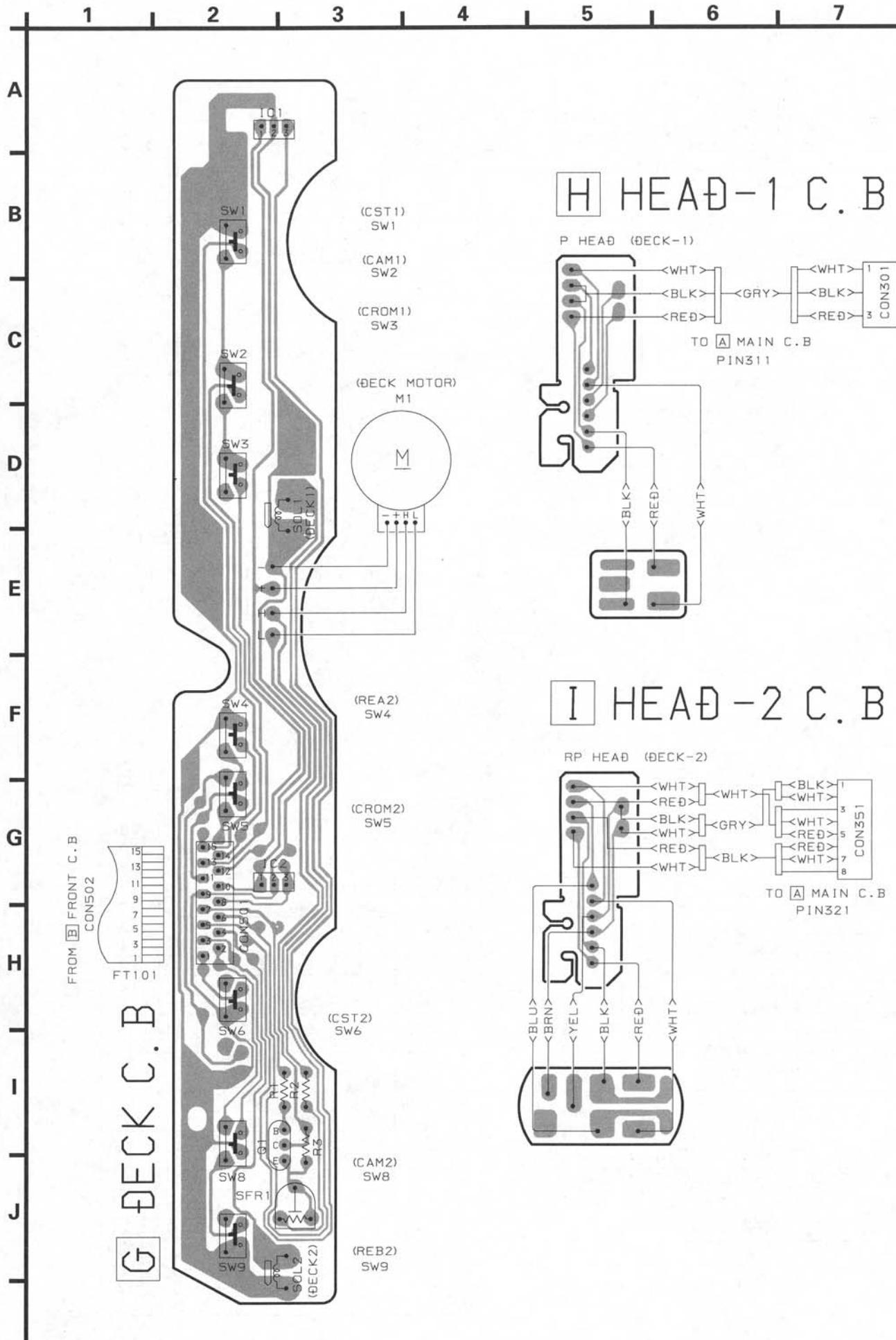
WIRING – 5 (PT : HK)



WIRING – 6 (PT : EZ, HE)

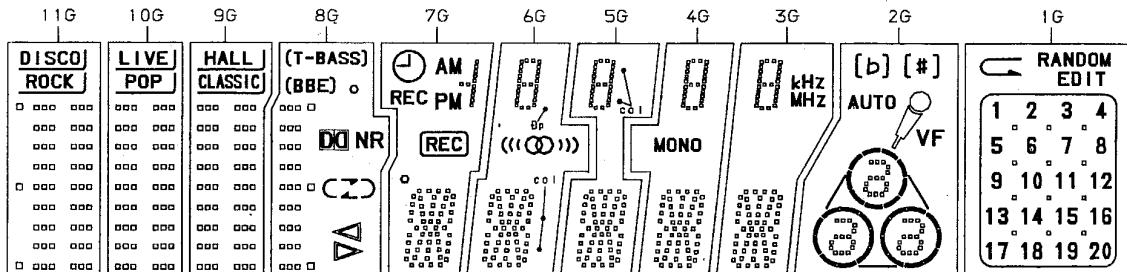


WIRING – 7 (DECK)



FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ478GK GRID ASSIGNMENT

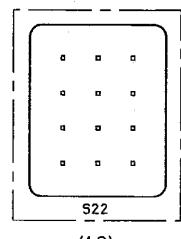
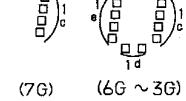
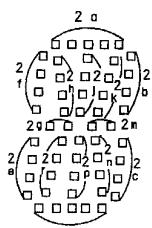
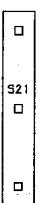
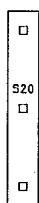


BJ478GK
GRID ASSIGNMENT

SEGMENT DESIGNATION

B9 0 0 0 0 0 0 0 B18	B9 0 0 0
B8 0 0 0 0 0 0 0 B17	B8 0 0 0
B7 0 0 0 0 0 0 0 B16	B7 0 0 0
B6 0 0 0 0 0 0 0 B15	B6 0 0 0
B5 0 0 0 0 0 0 0 B14	B5 0 0 0
B4 0 0 0 0 0 0 0 B13	B4 0 0 0
B3 0 0 0 0 0 0 0 B12	B3 0 0 0
B2 0 0 0 0 0 0 0 B11	B2 0 0 0
B1 0 0 0 0 0 0 0 B10	B1 0 0 0

(11G ~ 9G) (8G)



(11G)

(8G)

(7G ~ 3G)

(2G)

(1G)

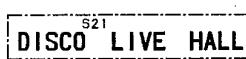
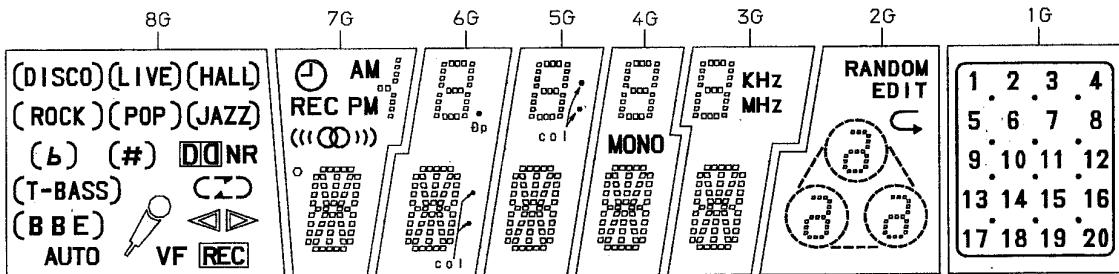
ANODE CONNECTION

	11G	10G	9G	8G	7G
P1	B1	B1	B1	B1	2d
P2	B10	B10	B10	△	2n
P3	B2	B2	B2	B2	2j, 2p
P4	B11	B11	B11	△	2r
P5	B3	B3	B3	B3	2e
P6	B12	B12	B12	C	2c
P7	B4	B4	B4	B4	2g
P8	B13	B13	B13	—	2m
P9	B5	B5	B5	B5	2f
P10	B14	B14	B14	○	2b
P11	B6	B6	B6	B6	2k
P12	B15	B15	B15	□ NR	2h
P13	B7	B7	B7	B7	2a
P14	B16	B16	B16	○	○
P15	B8	B8	B8	B8	—
P16	B17	B17	B17	BBE	REC
P17	B9	B9	B9	B9	REC
P18	B18	B18	B18	T-BASS	○
P19	ROCK	POP	CLASSIC	(BBE)	PM
P20	DISCO	LIVE	HALL	(T-BASS)	AM
P21	(ROCK)	(POP)	(CLASSIC)	—	1a
P22	(DISCO)	(HALL)	(HALL)	—	1b, 1c
P23	—	—	—	—	—
P24	S20	—	—	S21	—
P25	—	—	—	—	—

ANODE CONNECTION

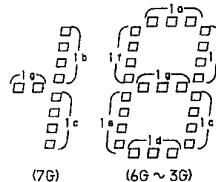
	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	S1	20
P2	2n	2n	2n	2n	S2	19
P3	2i, 2p	2i, 2p	2j, 2p	2j, 2p	S3	18
P4	2r	2r	2r	2r	S4	17
P5	2e	2e	2e	2e	S5	16
P6	2c	2c	2c	2c	S6	15
P7	2g	2g	2g	2g	S7	14
P8	2m	2m	2m	2m	S8	13
P9	2f	2f	2f	2f	S9	12
P10	2b	2b	2b	2b	S10	11
P11	2k	2k	2k	2k	S11	10
P12	2h	2h	2h	2h	S12	9
P13	2a	2a	2a	2a	S13	8
P14	c o i UPPER	—	—	—	S14	7
P15	((Φ)) c o i BELOW	—	—	MHz	S15	6
P16	Dp	—	MONO	KHz	S16	5
P17	1d	1d	1d	1d	S17	4
P18	1e	1e	1e	1e	S18	3
P19	1c	1c	1c	1c	S19	2
P20	1g	1g	1g	1g	VF	1
P21	1f	1f	1f	1f	AUTO	—
P22	1b	1b	1b	1b	(b)	RANDOM
P23	1a	1a	1a	1a	(#)	EDIT
P24	—	—	—	—	—	S22
P25	—	—	—	b #	—	—

**FL, 8-ST-18GK
GRID ASSIGNMENT**

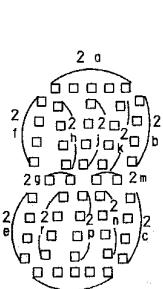


520
ROCK POP JAZZ
T-BASS

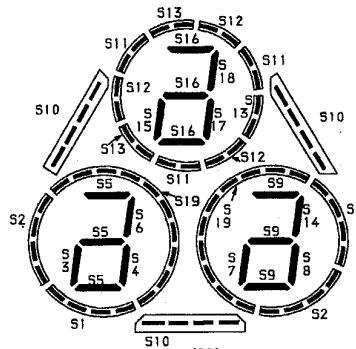
(8G)



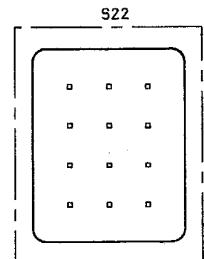
7G



(7G ~ 3G)



(2G)



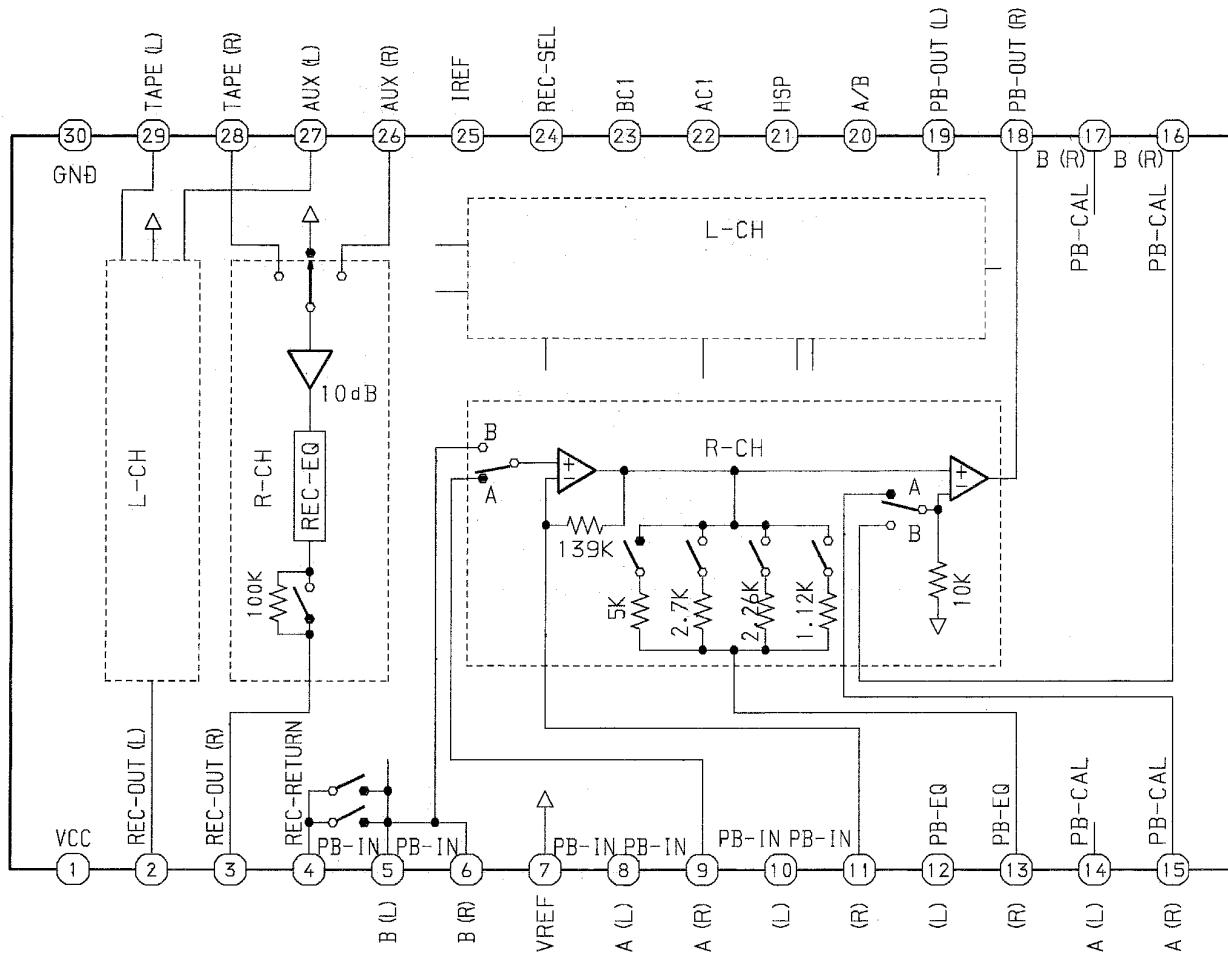
(1G)

ANODE CONNECTION

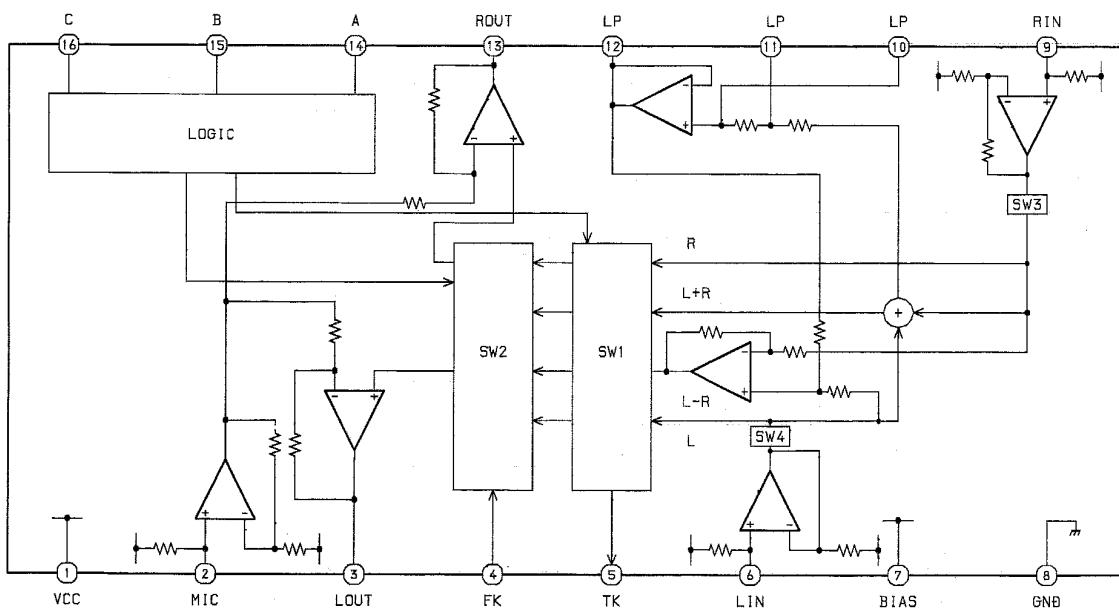
	8G	7G	6G	5G	4G	3G	2G	1G
P1	(T-BASS)	2d	2d	2d	2d	2d	S1	20
P2	(BBE)	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S2	19
P3	(b)	2n	2n	2n	2n	2n	S3	18
P4	AUTO	2r	2r	2r	2r	2r	S4	17
P5	VF	2c	2c	2c	2c	2c	S5	16
P6	(DISCO)	2e	2e	2e	2e	2e	S6	15
P7	(LIVE)	2m	2m	2m	2m	2m	S7	14
P8	(HALO)	2g	2g	2g	2g	2g	S8	13
P9	REC	2f	2f	2f	2f	2f	S9	12
P10	(#)	2b	2b	2b	2b	2b	S10	11
P11	b #	2k	2k	2k	2k	2k	S11	10
P12	◀	2h	2h	2h	2h	2h	S12	9
P13	▶	2a	2a	2a	2a	2a	S13	8
P14	C O	col	col(below)	MONO	MHz	S14	7	
P15	← (())	Dp	col(upper)	-	KHz	S15	6	
P16) REC	1d	1d	1d	1d	S16	5	
P17	DDNR	(-)	1e	1e	1e	1e	S17	4
P18	(ROCK)	PM	1c	1c	1c	1c	S18	3
P19	(POP)	AM	1g	1g	1g	1g	S19	2
P20	(JAZZ)	1g	1f	1f	1f	1f	◀	1
P21	S20	1b, 1c	1b	1b	1b	1b	EDIT	S22
P22	S21	-	1a	1a	1a	1a	RANDOM	-
P23	BBE	-	-	-	-	-	-	-

IC BLOCK DIAGRAM

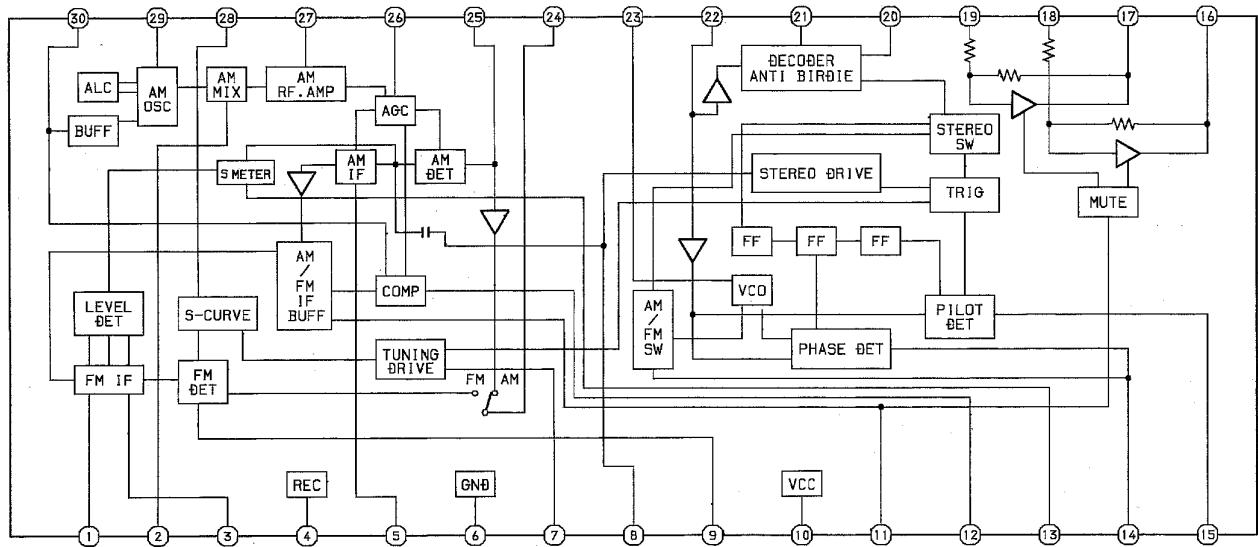
IC, HA12185NT



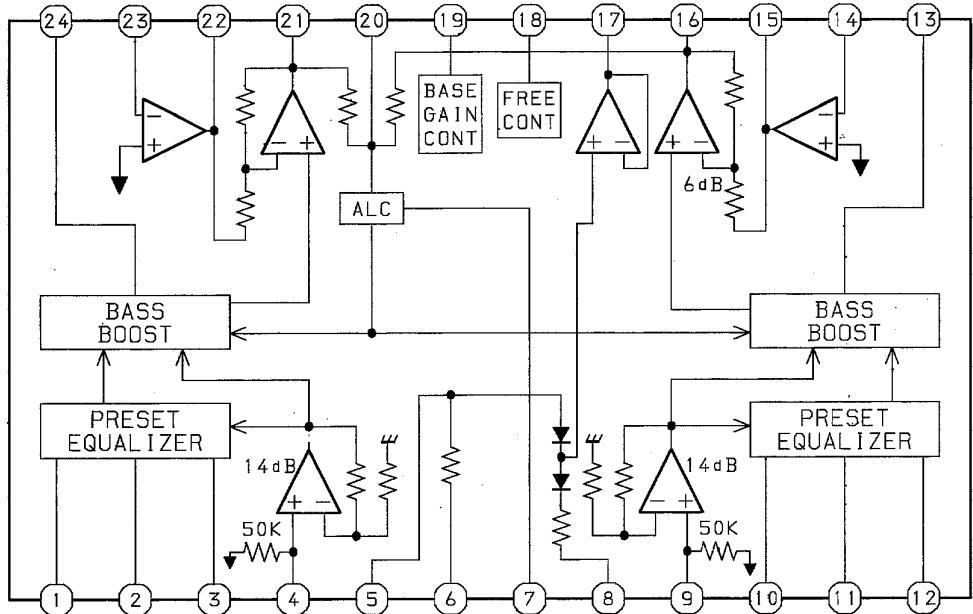
IC, BA3836



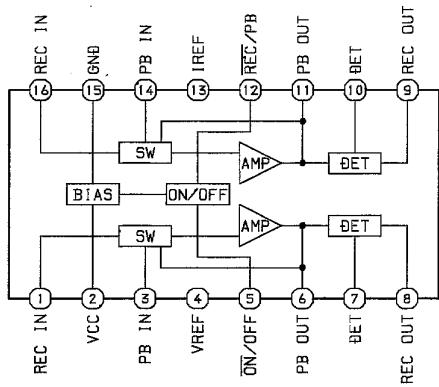
IC, LA1836L



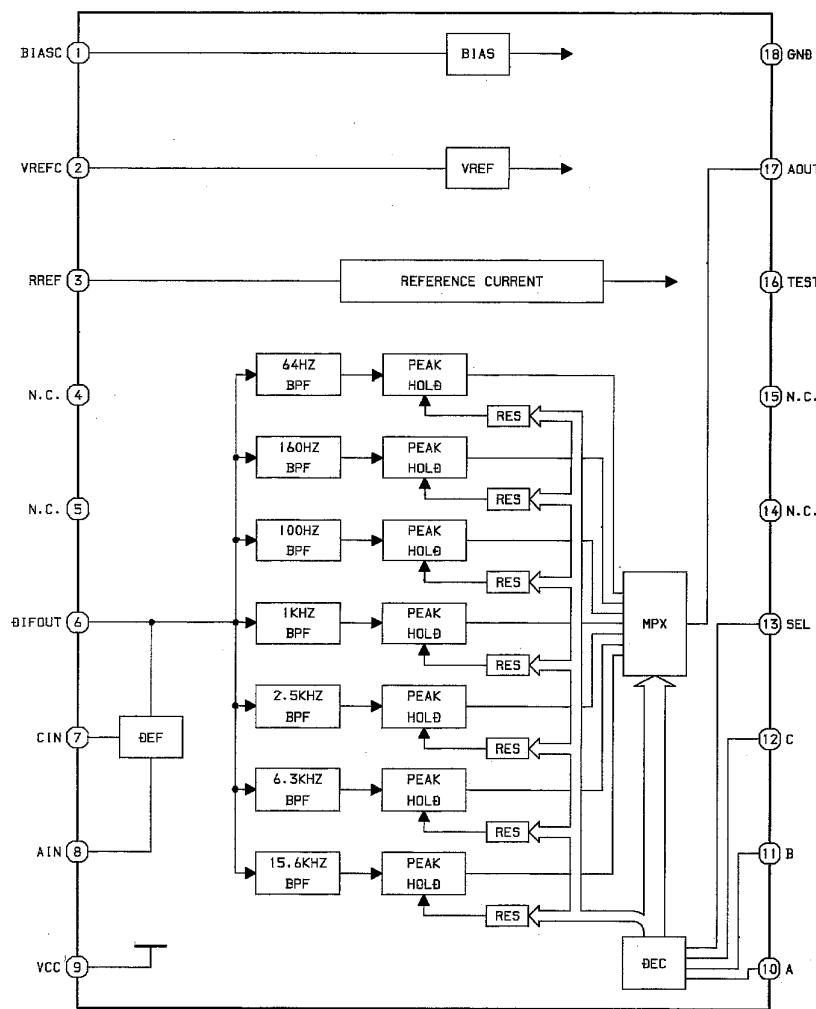
IC, BA3842F



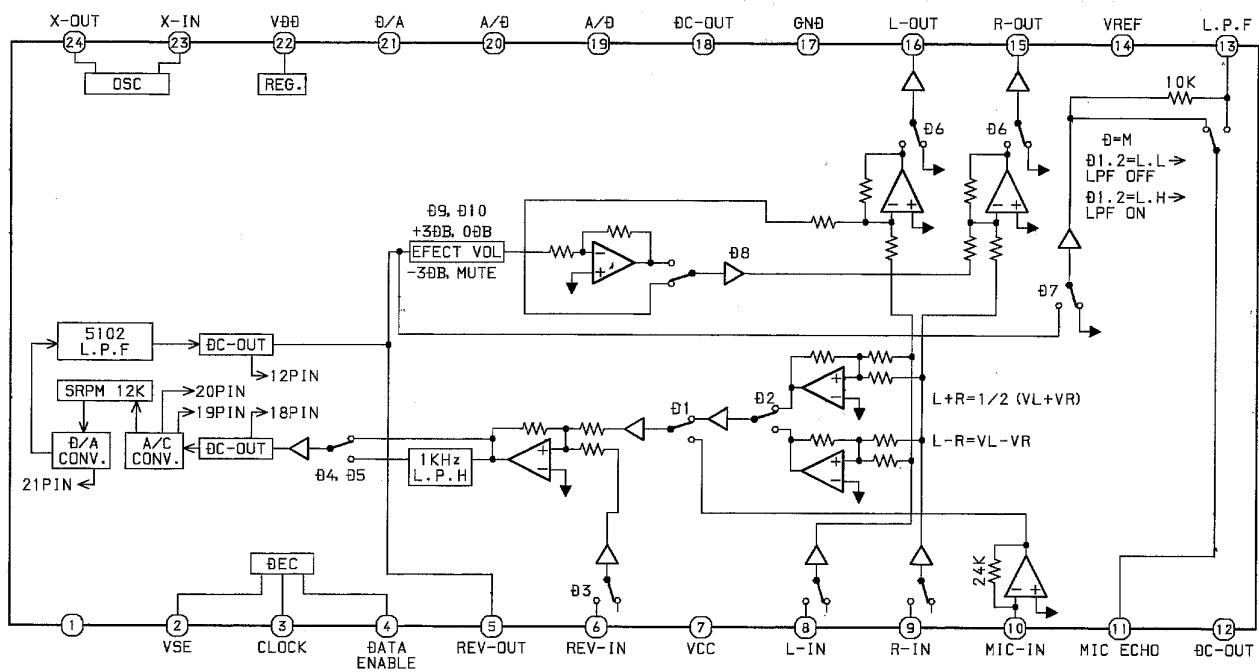
IC, HA12134A



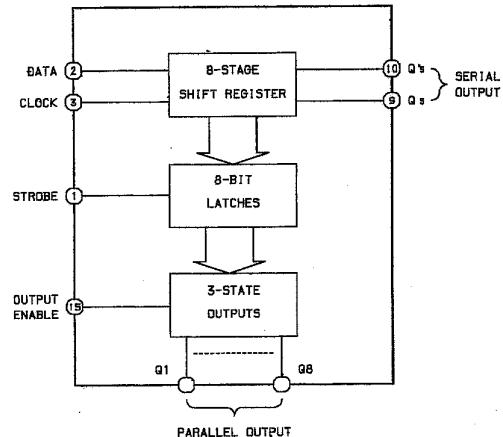
IC, BA3834S



IC, LV1100



IC, BU4094BC/BCF



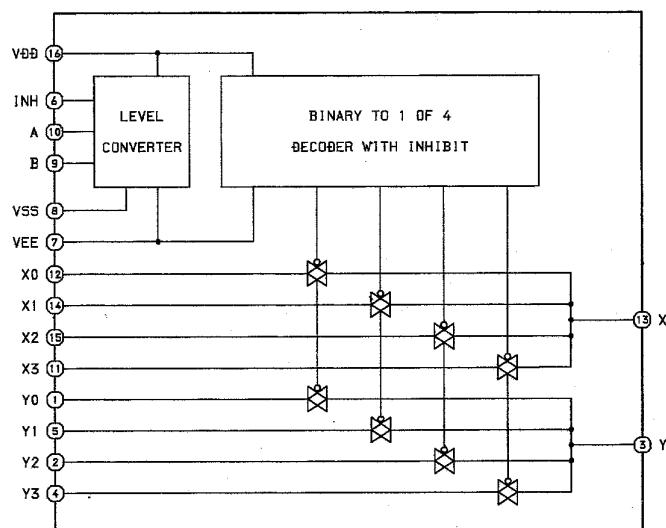
TRUTH TABLE

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

Z=High Impedance

X=Don't Care

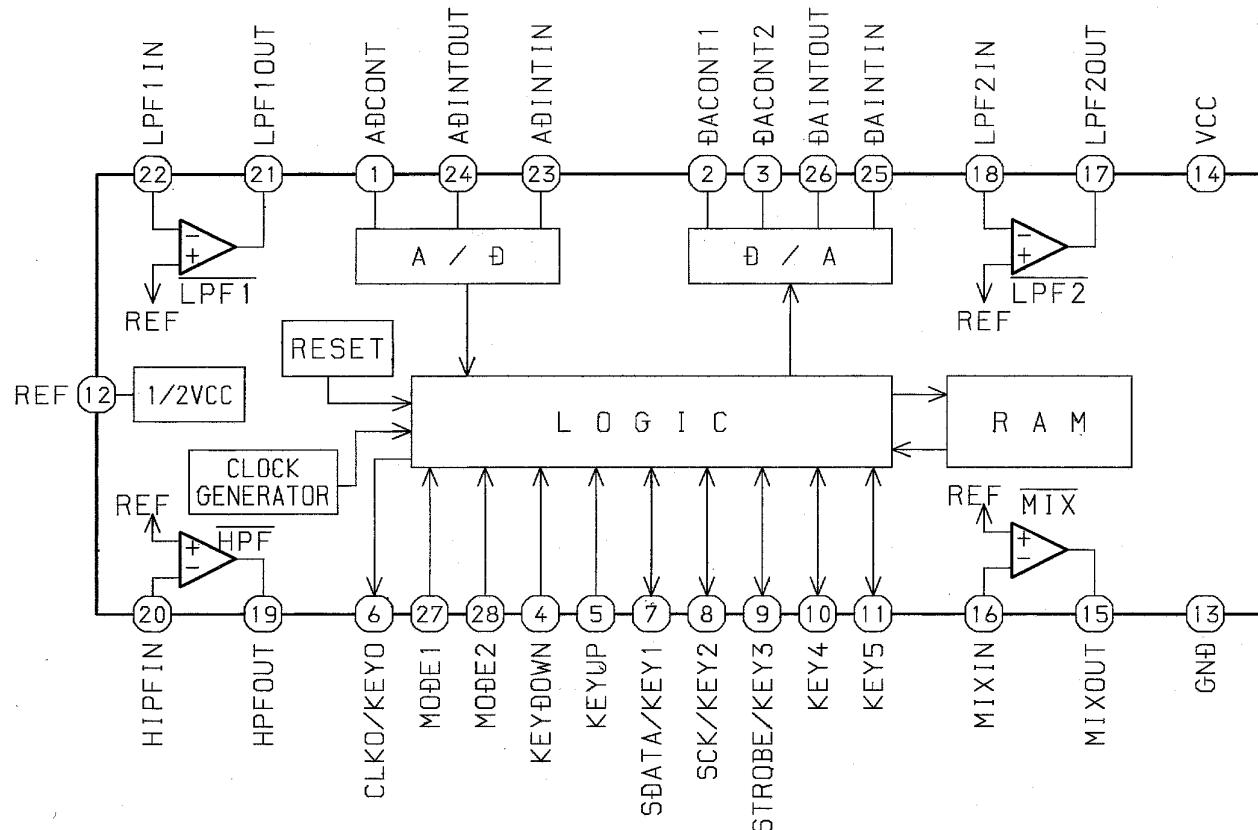
IC, BU4052BC



TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X: DON'T CARE.



IC DESCRIPTION
IC, μPD78044HGF-019

Pin No.	Pin Name	I/O	Description
1~7	G7 ~G1	O	FL grid output. (G1~G7)
8	VDD	-	Power supply terminal. (+5V)
9	I-SUBQ	I/O	CD IC control input/output.
10	O-CLK		
11	O-CD·CE		
12	O-DATA		
13	I-WRQ		
14	O-MVR+	O	Motor volume up output.
15	O-MVR-	O	Motor volume down output.
16	I-HOLD	I	Power failure detected input. (Low when Hold)
17	RESET	I	System reset input.
18	O-POWER	O	System power supply ON/OFF output.
19	O-MUTE	O	System mute ON/OFF output.
20	AVSS	-	GND.
21	O-KSCAN	O	Segment input permitted output. (Active low)
22	I-MS	I	DECK MS detected A/D input.
23	I-CD SW	I	CD Mechanical switch AD input.
24	I-DISH	I	CD turntable photo sensor A/D input.
25	I-MIC	I	Mic level A/D input for auto vocal fader.
26	I-KEY0	I	KEY0 A/D input.
27	I-KEY 1	I	KEY1 A/D input.
28	I-KEY 2	I	KEY2 A/D input.
29	AVDD	-	Power supply terminal.
30	AVREF	-	Reference voltage. (+5V)
31	I-TMBASE	I	Input a reference clock signal (8Hz) to the clock.
32	NC	-	-
33	VSS	-	GND.
34	X1	I	4.19MHz clock oscillator input.
35	X2	I	4.19MHz clock oscillator input.
36	O-C-SHIFT	O	Micro clock shift output. LC oscillator, "L" clock shift.
37	O-CD LED	O	CD flash window LED ON/OFF output.
38	O-PLL·CE	O	PLL IC chip enable output.
39	O-DATA	O	Main and front PLL shift register data output.

	SHIFT FREQUENCY	REQUIRED STEP
SW	8.337 ~ 8.423 MHz	1 kHz
	12.506 ~ 12.634 MHz	
	16.675 ~ 16.845 MHz	
FM (OIRT)	66.70 ~ 67.40 MHz	10 kHz
	70.85 ~ 71.60 MHz	
FM	79.20 ~ 80.05 MHz	50 kHz
	83.35 ~ 84.25 MHz	
	87.50 ~ 88.45 MHz	
	91.70 ~ 92.65 MHz	
	95.85 ~ 96.90 MHz	
	100.05 ~ 101.10 MHz	
	104.20 ~ 105.30 MHz	

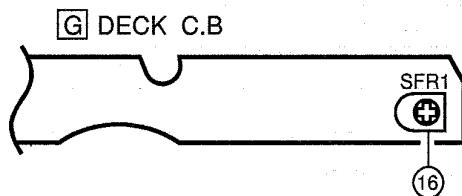
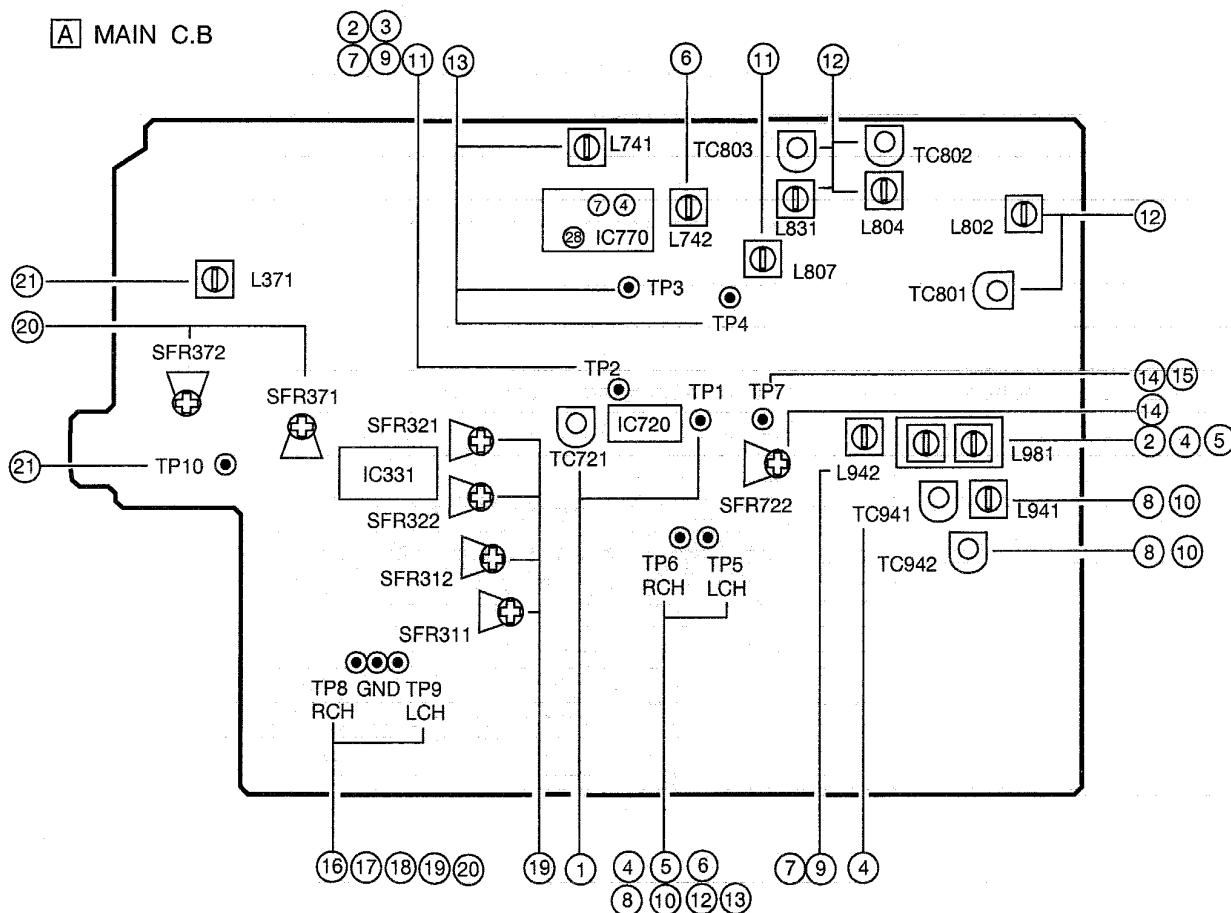
Pin No.	Pin Name	I/O	Description								
40	O-CLK	O	Main and front PLL shift register clock output.								
41	O-FSTB	O	Front shift register data latch strobe output.								
42	O-MSTB	O	Main shift register data latch strobe output.								
43	O-HSP	O	Deck motor high speed ON/OFF output.								
44	O-REC SEL	O	Deck recording input switch.(HIZ-RMT, H-MIX, L-TAPE) <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>"HIZ" (MUTE)</td> <td>"H" (MIX)</td> <td>"L" (TAPE)</td> <td>Dolby On : "L"(TAPE) Dolby Off : "H" (MIX)</td> </tr> <tr> <td>REC muting</td> <td>Manual dubbing</td> <td>Synchronize dubbing</td> <td>Tuner/Aux/CD Recording</td> </tr> </table>	"HIZ" (MUTE)	"H" (MIX)	"L" (TAPE)	Dolby On : "L"(TAPE) Dolby Off : "H" (MIX)	REC muting	Manual dubbing	Synchronize dubbing	Tuner/Aux/CD Recording
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45	I-TUNE/IFT	I	SD detected input or serial data input of IF count to and from Tuner.								
46	I-SENS ST	I	Stereo detected input to and from Tuner. (Active low)								
47	I-RMC	I	System remote controller input. (Active low)								
48	IC	-	Internal connection. (connected to GND)								
49	O-SOL2	O	DECK 2 solenoid ON/OFF output.								
50	O-SOL1	O	DECK 1 solenoid ON/OFF output.								
51	O-MOTOR	O	DECK motor ON/OFF output.								
52	VDD	-	Power supply terminal. (+5V)								
53	O-DISH RVS	O	3 disc table slet rotation output.								
54	O-DISH FWD	O	3 disc table slet rotation output.								
55	P1/SCTI	O	FL segment output. (P1, DECK 1 cassette detection switch input)								
56	P2/CAM1	O	FL segment output. (P2, DECK 1 cam switch input)								
57	P3/AUTO1	O	FL segment output. (P3, DECK 1 auto stop input)								
58	P4/AUTO2	O	FL segment output. (P4, DECK 2 auto stop input)								
59	P5/CAM2	O	FL segment output. (P5, DECK 2 cam switch input)								
60	P6/REB	O	FL segment output. (P6, DECK 2 B side recording permission switch input)								
61	P7/CST2	O	FL segment output. (P7, DECK 2 cassette detection switch input)								
62	P8/REA	O	FL segment output. (P8, DECK 2 A side recording permission switch input)								
63	P9/TU1	O	FL segment output. (P9, Diode (TU1) input)								
64	P10/TU2	O	FL segment output. (P10, Diode (TU2) input)								
65	P11/NTSC/PAL	O	FL segment output. (P11, NTSC initial diode input)								
66	P12/KEYCON	O	FL segment output. (P12, Key con diode input)								
67	P13/DOLBY	O	FL segment output. (P13, Dolby diode input)								
68	P14/DSP	O	FL segment output. (P14, DSP diode input)								
69~77	P15~22	O	FL segment output. (P15~22)								
78	O-CLOSE	O	CD tray close output.								
79	O-OPEN	O	CD tray open output.								
80	G8	O	FL grid output. (G8)								

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21	I-SPEANA	I	Level input.																					
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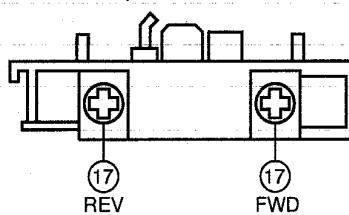
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60	P8/REA	O	FL segment output. (P8, DECK 2 A side recording permission switch input)
61	P9/TU1	O	FL segment output. (P9, Diode (TU1) input)
62	P10/TU2	O	FL segment output. (P10, Diode (TU2) input)
63	P11/NTSC/PAL	O	FL segment output. (P11, NTSC initial diode input)
64	P12/KEYCON	O	FL segment output. (P12, Key con diode input)
65	P13/DOLBY	O	FL segment output. (P13, Dolby diode input)
66	P14/DSP	O	FL segment output. (P14, DSP diode input)
67~76	P15~23	O	FL segment output. (P15~23)
77~80	G11~8	O	FL grid output. (G11~8)

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

ELECTRICAL ADJUSTMENT <TUNER / DECK>



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



< TUNER SECTION >

1. Clock Frequency Adjustment

Settings : • Test point : TP1

• Adjustment location : TC721

Method : Set to MW 1710kHz<HE,HK>, MW 1602kHz<EZ> and adjust TC721 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$ <HE,HK>, $2052\text{kHz} \pm 0.01\text{kHz}$ <EZ>.

2. MW VT Adjustment<HE,HK>

Settings : • Test point : TP2 (VT)

• Adjustment location : L981

Method : Set to MW 1710kHz and adjust L981 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.

3. MW VT Check<EZ>

Settings : • Test point : TP2 (VT)

Method : Set to MW 1602kHz and check that the test point is $6.8\text{V} \pm 1.0\text{V}$.

4. MW Tracking Adjustment<HE,HK>

Settings : • Test point : TP-5, TP-6

• Adjustment location :

L981 600kHz
TC941 1400kHz

Method : Set up TC941 to center before adjustment. The level at 600kHz is adjusted to MAX by L981. Then the level at 1400kHz is adjusted to MAX by TC941.

5. MW Tracking Adjustment<EZ>

Settings : • Test point : TP-5, TP-6

• Adjustment location :

L981 999kHz

Method : The level at 999kHz is adjusted to MAX by L981.

6. AM IF Adjustment

Settings : • Test point : TP-5, TP-6

• Adjustment location : L742

L742 450kHz

7. LW VT Adjustment<EZ>

Settings : • Test point : TP2 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes $1.5V \pm 0.05V$.

8. LW Tracking Adjustment<EZ>

Settings : • Test point : TP-5, TP-6
• Adjustment location :
L941 144kHz
TC942 290kHz
Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

9. SW VT Adjustment <HE,HK>

Settings : • Test point : TP2 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes $7.0V \pm 0.05V$.

10. SW Tracking Adjustment<HE,HK>

Settings : • Test point : TP-5, TP-6
• Adjustment location :
L941 5.95MHz
TC942 17.9MHz
Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjusted to MAX by L941. Then the level at 17.9MHz is adjusted to MAX by TC942.

11. FM VT Adjustment

Settings : • Test point : TP2 (VT)
• Adjustment location : L807
Method : Set to FM 108.0MHz and adjust L807 so that test point is $8.0V \pm 0.05V$. Then set to FM 87.5MHz and check that the test point is more than 1.5V.

12. FM Tracking Adjustment

Settings : • Test point : TP5, TP6
• Adjustment location :
L802,L804,L831<EZ> 87.5MHz
TC801,TC802,TC803<EZ> 108.0MHz
Method : • The level at 87.5MHz is adjusted by L802, L804, L831<EZ>. Then the level at 108.0MHz is adjusted by TC801, TC802, TC803<EZ>, so that the distortion is less than 3%.

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 $0V \pm 0.04V$. Next, check that the distortion is less than 1.3%.

14. Auto Stop Level Adjustment

Settings : • Test point : TP7
• Adjustment location : SFR722
• Input level : 18dB
Method : Set to FM 98.0 MHz and adjust voltage low (about 0.1V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

15. Auto Stop Level Check

MW
Settings : • Test point : TP7
• Input level : Variable
Method : Set to MW 999kHz and check that the test point is 58 ± 10 dB.

FM

Settings : • Test point : TP7
• Input level : Variable
Method : Set to FM 98.0MHz and check that the test point is 20 dB ± 5 dB.

SW<HE,HK>

Settings : • Test point : TP7
• Input level : Variable
Method : Set to SW 12.0MHz and check that the test point is less than 60 dB.

< DECK SECTION >

16. Tape Speed Adjustment

Settings : • Test tape : TTA-100
• Test point : TP8, TP9
• Adjustment location : SFR1
Method : Play back the test tape by DECK 2 and adjust SFR1 so that the frequency counter reads 3000Hz ± 5 Hz.

17. Head Azimuth Adjustment

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

18. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-300
• Test point : TP8, TP9
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is ± 2 dB.

19. PB Sensitivity Adjustment

Settings : • Test tape : TTA-200
• Test point : TP8, TP9
• Adjustment location :
SFR311 (DECK 1, Lch)
SFR312 (DECK 1, Rch)
SFR321 (DECK 2, Lch)
SFR322 (DECK 2, Rch)
Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

20. REC/PB Frequency Response Adjustment

- Settings :
- Test tape : TTA-602
 - Test point : TP8, TP9
 - Input signal : 1kHz / 10kHz (LINE IN)
 - Adjustment location : SFR371 (Lch)
SFR372 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz 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.

21. Bias OSC Frequency Adjustment

- Settings :
- Test tape : TTA-601
 - Test point : TP10
 - Adjustment location : L371
- Method : Set to the REC mode. Adjust L371 so that the frequency counter of the test point becomes $85\text{kHz} \pm 0.1\text{kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	<HE,HK>
(THD 3%)	6dB ± 6dB [at 87.5 / 98.0MHz]
	8dB ± 6dB [at 108.0MHz]
	<EZ>
	8dB ± 6dB [at 87.5MHz]
	7dB ± 6dB [at 98.0 / 108.0MHz]

S/N 50dB<HE,HK>, 46dB<EZ>

Quieting sensitivity :	<HE,HK>
	31dB ± 5dB [at 87.5 / 98.0 / 108.0MHz]
	<EZ>
	34dB ± 5dB [at 87.5 / 98.0 / 108.0MHz]

Signal to noise ratio :	(STEREO) More than 64dB<HE,HK>
	(STEREO) More than 59dB<EZ>
	(MONO) More than 65dB
	[at 98.0MHz]

Distortion :	(STEREO) Less than 2.0%
	(MONO) 1.3 %

Auto stop level :	22dB ± 10dB [at 98.0MHz]
Stereo separation :	More than 25dB<HE,HK>

	More than 20dB<EZ>
	[at 98.0MHz]

Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity :	52 ~ 64dB
(S/N 20 dB)	[at 603kHz]
	50 ~ 62dB [at 999 / 1404kHz]

Signal to noise ratio :	More than 36dB
	[at 999kHz]

Distortion :	Less than 1.5%
	[at 999kHz]

Auto stop level :	40dB ~ 65dB
	[at 999kHz]

Intermediate frequency : 450kHz

<SW SECTION><HE,HK>

Sensitivity :	35 ~ 45dB (5.90MHz)
(S/N 20dB)	28 ~ 38dB (12.0MHz)
	28 ~ 38dB (17.9MHz)
Distortion :	Less than 1.5% (12.0MHz)

Intermediate frequency : 450kHz

<LW SECTION><EZ>

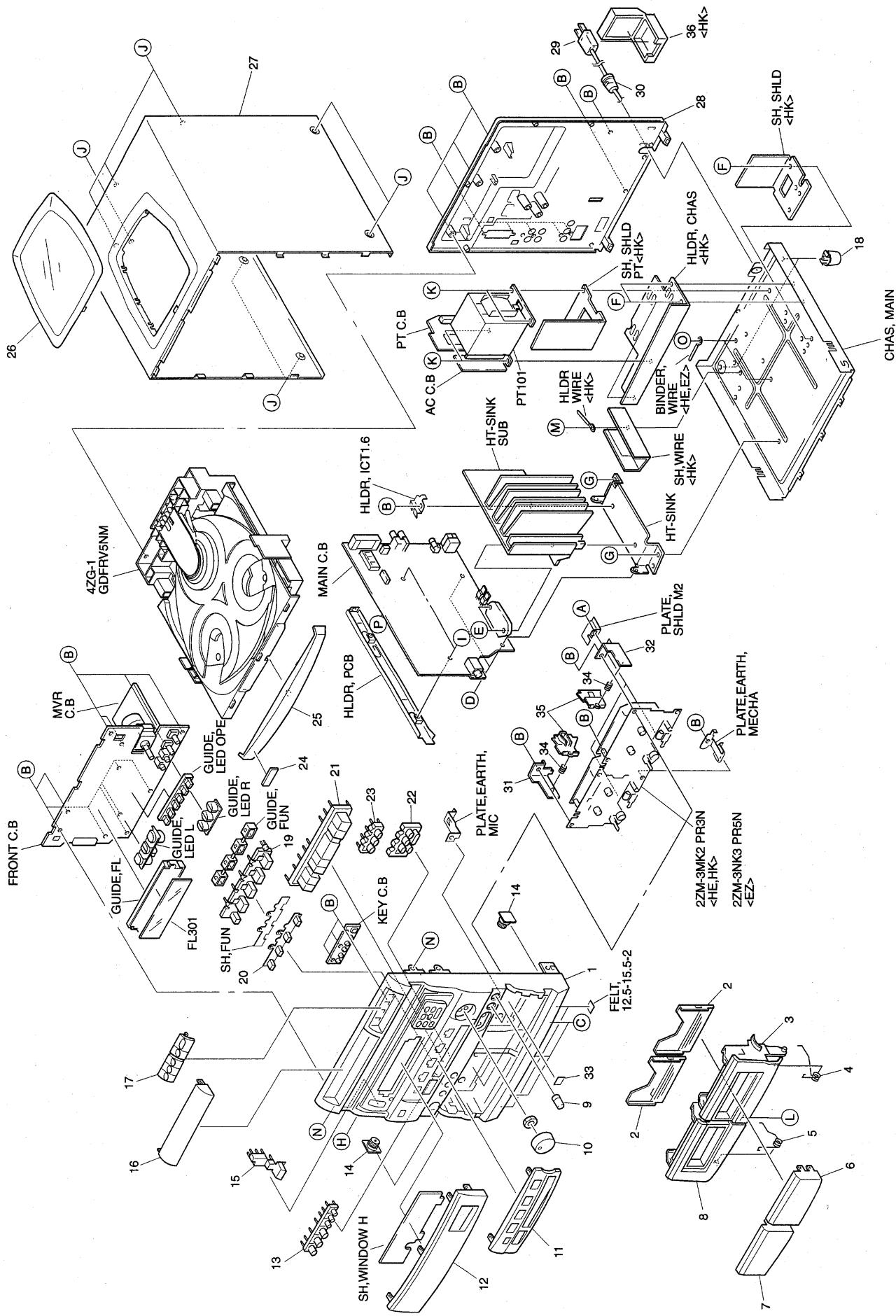
Sensitivity :	68dB ± 5dB (144kHz)
(S/N 20dB)	65dB ± 5dB (198kHz)
	65dB ± 5dB (290kHz)
Distortion :	Less than 1.5% (198kHz)

Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.4% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	2.8V ± 3dB (SP OUT 2V)
REC/PB output level :	1.6V ± 3dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
Noise level (PB) :	Less than 300mV (NORM, SP OUT 2V, DOLBY OFF) Less than 150mV (CrO ₂ , SP OUT 2V, DOLBY OFF)
Noise level (REC/PB) :	Less than 25mV/12mV (NORM, DOLBY OFF / WTD) Less than 18mV/10mV (CrO ₂ , DOLBY OFF / WTD)
Crosstalk :	More than 55dB (1kHz, 0VU)
Channel separation :	More than 40dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz)
Test tape :	TTA-602 (NORMAL) TTA-610 (CrO ₂)

MECHANICAL EXPLODED VIEW 1/1

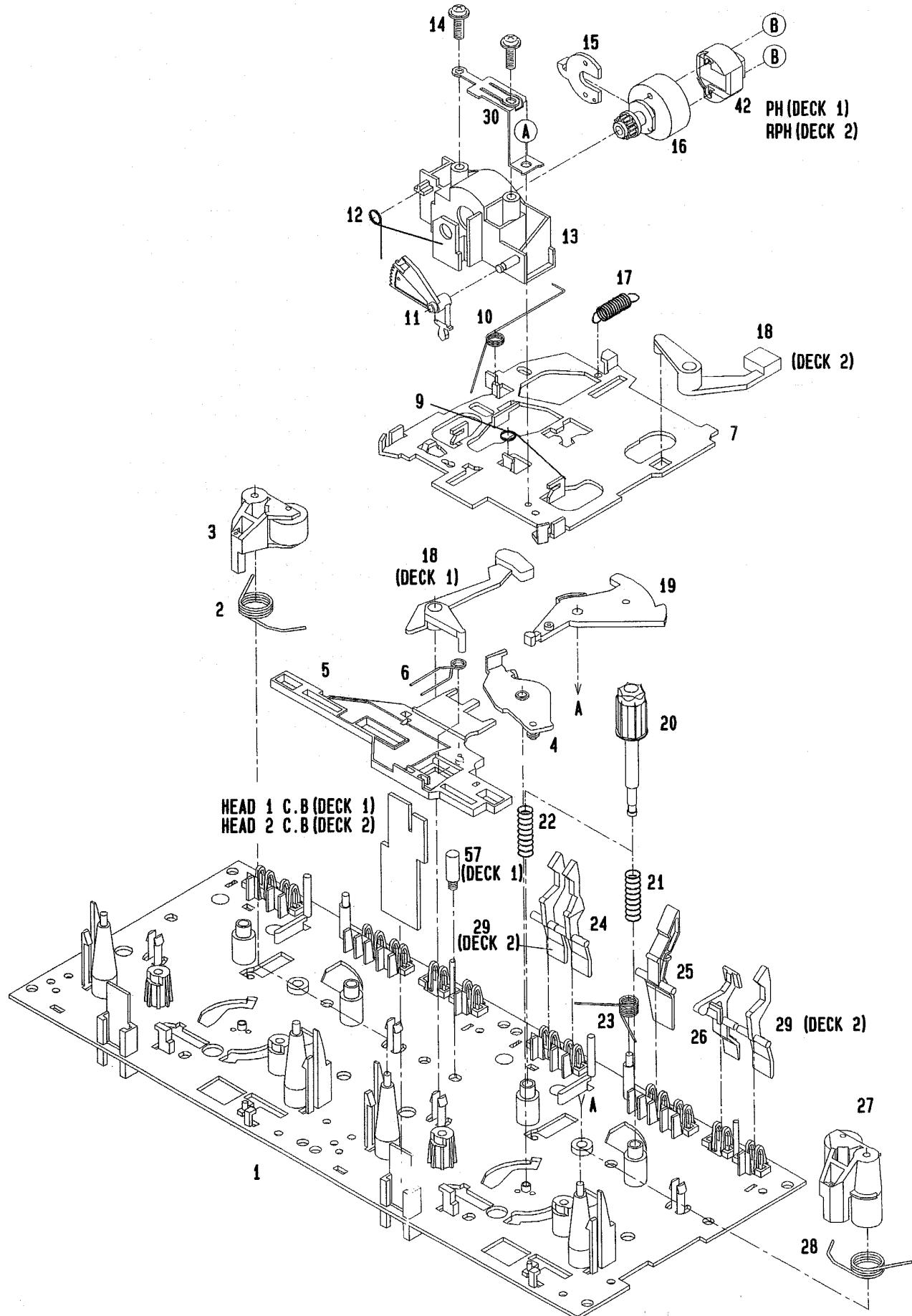


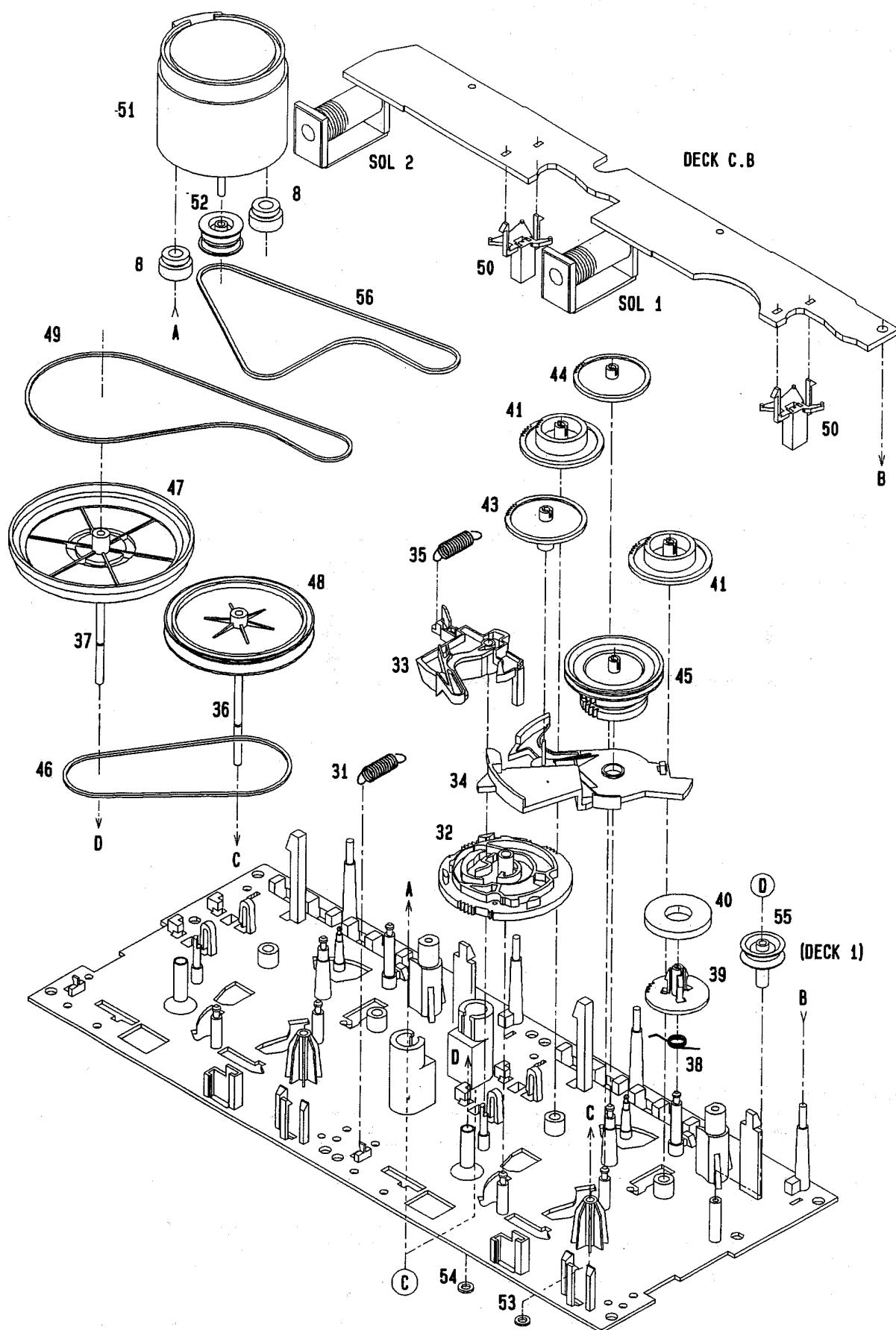
MECHANICAL PARTS LIST 1/1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NH6-002-010	CABI,FR E<77EZ>		23	86-NF6-014-010	KEY,DSP	
1	86-NH6-001-110	CABI,FR H<77HK>		24	82-NB6-067-010	BADGE,AIWA 3ON	
1	86-NH6-021-010	CABI,FR H K700<700HE>		25	86-NH6-005-010	PANEL,TRAY E<77EZ>	
2	86-NF6-061-010	REFLECTOR,CASS		25	86-NH6-003-010	PANEL,TRAY H<77HK>	
3	86-NF6-004-010	BOX,CASS 2<700HE>		25	86-NH6-023-010	PANEL,TRAY H K700<700HE>	
3	86-NH6-010-010	BOX,CASS 2H<77HK>		26	86-NF6-007-010	WINDOW, TOP	
3	86-NFT-022-010	BOX,CASS 2TS<77EZ>		27	86-NF6-048-010	CABI,STEEL H-S<700HE>	
4	82-NF5-219-010	SPR-T,EJECT 2(SIN)		27	86-NFT-005-010	CABI,STEEL TS<77HK,77EZ>	
5	82-NF5-218-010	SPR-T,EJECT 1(SIN)		28	86-NH6-014-010	PANEL,REAR EZSTNM<77EZ>	
6	86-NF6-020-010	WINDOW,CASS 2		28	86-NH6-026-010	PANEL,REAR HEJBNM K700<700HE>	
7	86-NF6-019-010	WINDOW,CASS 1		28	86-NH6-015-010	PANEL,REAR HKJSTNM<77HK>	
8	86-NF6-003-010	BOX,CASS 1<700HE>		29	87-050-079-010	AC CORD ASSY,E	
8	86-NH6-009-010	BOX,CASS 1H<77HK>		30	87-085-185-010	BUSHING AC CORD	
8	86-NFT-021-010	BOX,CASS 1TS<77EZ>		31	82-NF5-226-010	HLDR,LOCK 1N(*)	
9	86-NF6-050-010	KNOB,RTRY MIC M		32	82-NF5-227-010	HLDR,LOCK 2N(*)	
10	86-NF6-063-010	KNOB,RTRY VOL<700HE>		33	81-532-080-010	LBL,CASS-COMPT	
10	86-NFT-032-010	KNOB,RTRY VOL TS<77HK,77EZ>		34	82-NF5-228-010	SPR-C,LOCK	
11	86-NF6-006-010	PANEL,CONTROL		35	82-NF5-229-010	PLATE,LOCK(*)	
12	86-NH6-008-010	WINDOW,DISP E<77EZ>		36	87-099-811-010	PLUG,ADPTR CONV(K)<77HK>	
12	86-NH6-007-010	WINDOW,DISP H<77HK>		A	87-571-032-410	VIT+2-3	
12	86-NH6-024-010	WINDOW,DISP H K700<700HE>		B	87-067-703-010	BVT2+3-10 W/O SLOT	
13	86-NFG-013-010	KEY,CONTROL<700HE>		C	87-067-673-010	BVT2+3-8 BLK	
13	86-NH6-025-010	KEY,CONTROL TS<77HK,77EZ>		D	87-067-633-010	BVT2+3-8 W/O SLOT W/CONVEX	
14	87-063-165-010	OIL-DMPR,150		E	87-067-698-010	BVT2+3-18 W/O SLOT	
15	86-NF6-009-010	KEY,POWER<700HE>		F	87-571-092-410	VIT+3-4<77HK>	
15	86-NFT-033-010	KEY,POWER TS<77HK,77EZ>		G	87-067-689-010	BVT2+3-8	
16	86-NF6-018-010	WINDOW,CD		H	87-591-094-410	QIT+3-6	
17	86-NF6-015-010	KEY,CD<700HE>		I	87-078-084-010	BVT2+3-6 W/CONVEX	
17	86-NFT-031-010	KEY,CD TS<77HK,77EZ>		J	87-067-641-010	UTT2+3-8 W/O SLOT BLK	
18	87-085-221-010	FOOT, H 13.5		K	87-078-083-010	BVT2+4-8 SWCH16A SEMS<700HE,77EZ>	
19	86-NF6-011-010	KEY,FUN		K	87-067-975-010	S-SCREW,IT+4-8 SWCH12A<77HK>	
20	86-NF6-016-010	REFLECTOR,FUN		L	82-NE8-215-010	W,4.2-6.8-0.18	
21	86-NH6-004-010	KEY,OPE VCD		M	87-067-585-010	BVT2+4-6<77HK>	
22	86-NH6-006-110	KEY,VCD<700HE>		N	87-721-097-410	QT2+3-12 W/O SLOT	
22	86-NH6-027-010	KEY,VCD HIGH<77HK,77EZ>		O	87-067-584-010	BVT2+3-6 W/O SLOT<700HE,77EZ>	
				P	87-067-508-010	W-F,3.5-8-0.8 W/ADH	

TAPE MECHANISM EXPLODED VIEW 1/1



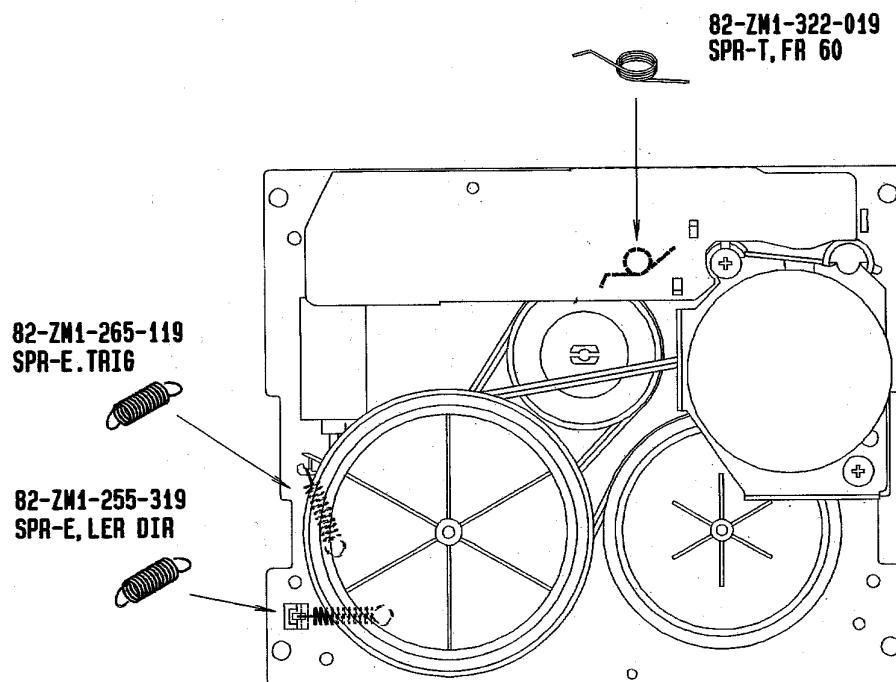
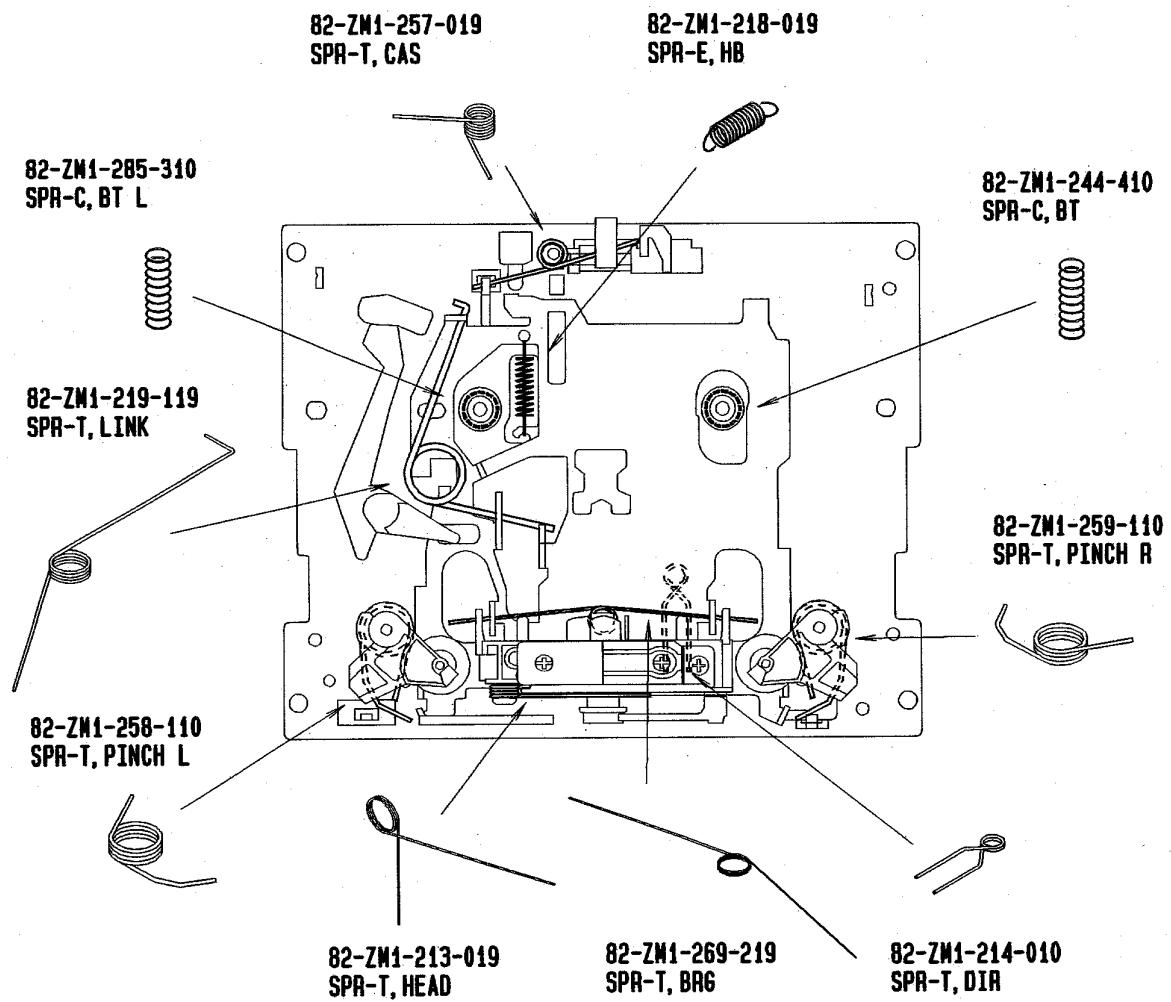


TAPE MECHANISM PARTS LIST 1/1 <PR3 : 77HK,700HE><PR5 : 77EZ>

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	32	82-ZM3-305-01K		GEAR,CAM M2
2	82-ZM1-258-110		SPR-T,PINCH L	33	82-ZM1-227-21K		LVR,TRIG
3	82-ZM1-248-519		LVR ASSY,PINCH L<PR3>	34	82-ZM3-306-11K		LVR,FR M2
3	82-ZM1-345-019		LVR ASSY,PINCH L W<PR5 >	35	82-ZM1-265-119		SPR-E,TRIG
4	82-ZM1-295-31K		PLATE ASSY,LINK<PR3>	36	82-ZM1-236-019		CAPSTAN N 2-41.5
4	82-ZM1-333-010		PLATE,LINK 2<PR5 >	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
5	82-ZM1-266-11K		LVR,DIR	38	82-ZM1-322-019		SPR-T,FR60
6	82-ZM1-214-010		SPR-T,DIR	39	82-ZM1-220-219		GEAR, IDLER
7	82-ZM1-206-81K		CHAS,HEAD	40	82-ZM1-316-010		RING MAGNET 3
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	41	82-ZM1-216-31K		GEAR,REEL
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-398-019		HEAD,PH YK50P-BS409(PH)
10	82-ZM1-219-119		SPR-T,LINK	42	87-046-399-019		HEAD,RPH YK56R-BS409(RPH)
11	82-ZM1-210-119		GEAR,H T	43	82-ZM1-225-21K		GEAR,FR
12	82-ZM1-213-019		SPR-T,HEAD	44	82-ZM1-226-019		GEAR,REW
13	82-ZM1-207-619		GUIDE,TAPE	45	82-ZM1-228-810		SLIP DISK ASSY
14	82-ZM1-283-310		S-SCREW,AZIMUTH	46	82-ZM1-338-010		BELT FR4
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
16	82-ZM1-208-119		HLDL,HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	49	82-ZM3-313-019		BELT R10<PR3>
19	82-ZM1-222-21K		LVR,PLAY	49	82-ZM3-329-210		BELT,SBU R2<PR5 >
20	82-ZM1-217-319		REEL TABLE	50	82-ZM1-245-210		HLDL,IC
21	82-ZM1-244-510		SPR-C,BT	51	87-045-347-019		MOT,SHU2L 70(M1)
22	82-ZM1-285-310		SPR-C,BT L	52	82-ZM3-202-019		PULLEY,MOT 2M<PR3>
23	82-ZM1-257-019		SPR-T,CAS	52	82-ZM3-221-010		PULLEY,MOT 2M<PR5 >
24	82-ZM1-241-319		LVR,MC	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
25	82-ZM1-242-019		LVR,CAS	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
26	82-ZM1-243-019		LVR,STOP	55	82-ZM3-304-110		PULLEY,COUPLER (DECK 1)
27	82-ZM1-253-519		LVR ASSY,PINCH R<PR3>	56	82-ZM3-312-019		BELT P10<PR3>
27	82-ZM1-346-019		LVR ASSY,PINCH R W<PR5 >	56	82-ZM3-328-110		BELT,SBU P2<PR5 >
28	82-ZM1-259-110		SPR-T,PINCH R	57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
29	82-ZM1-240-11K		LVR,REC (DECK 2)	A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
30	82-ZM1-298-010		SPR-P,EARTH	B	80-ZM6-207-019		V+1.6-7
31	82-ZM1-255-319		SPR-E,LVR DIR	C	82-ZM3-318-019		S-SCRW MOTOR M2
				D	87-067-972-019		PW,1.05-3-0.25 SLT

SPRING APPLICATION POSITION

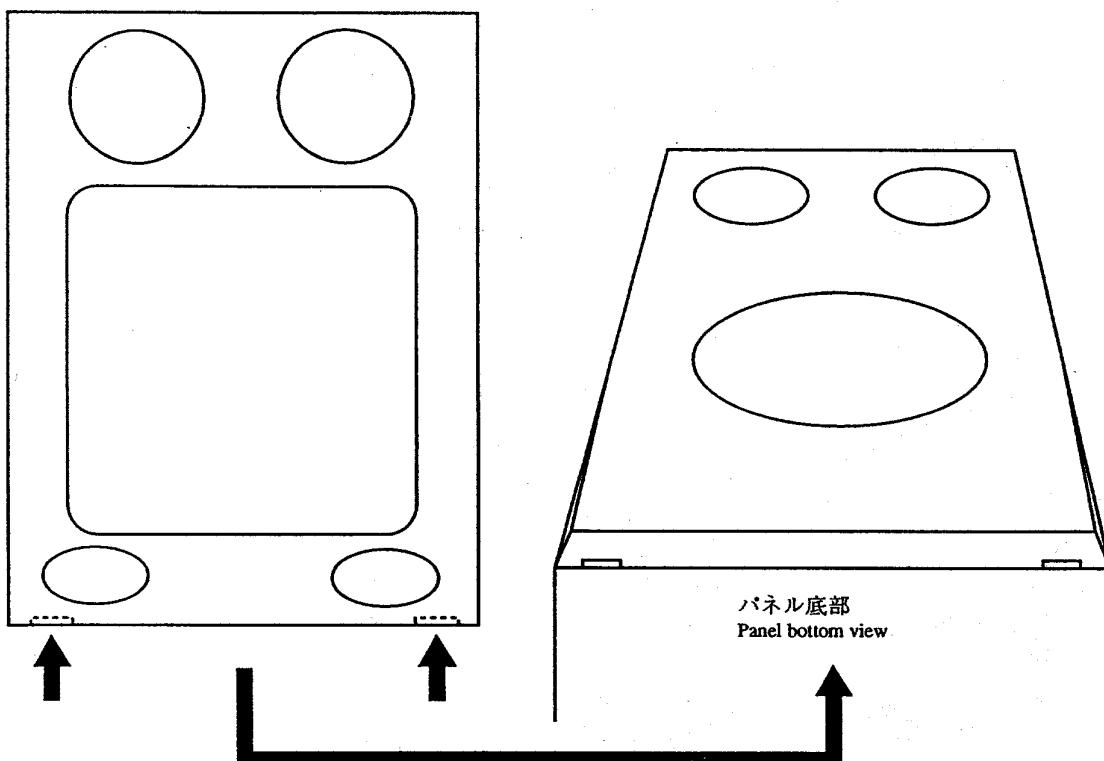


SPEAKER DISASSEMBLY INSTRUCTIONS

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 PARTS LIST 1/2 (SX-NAV70 / 80)

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

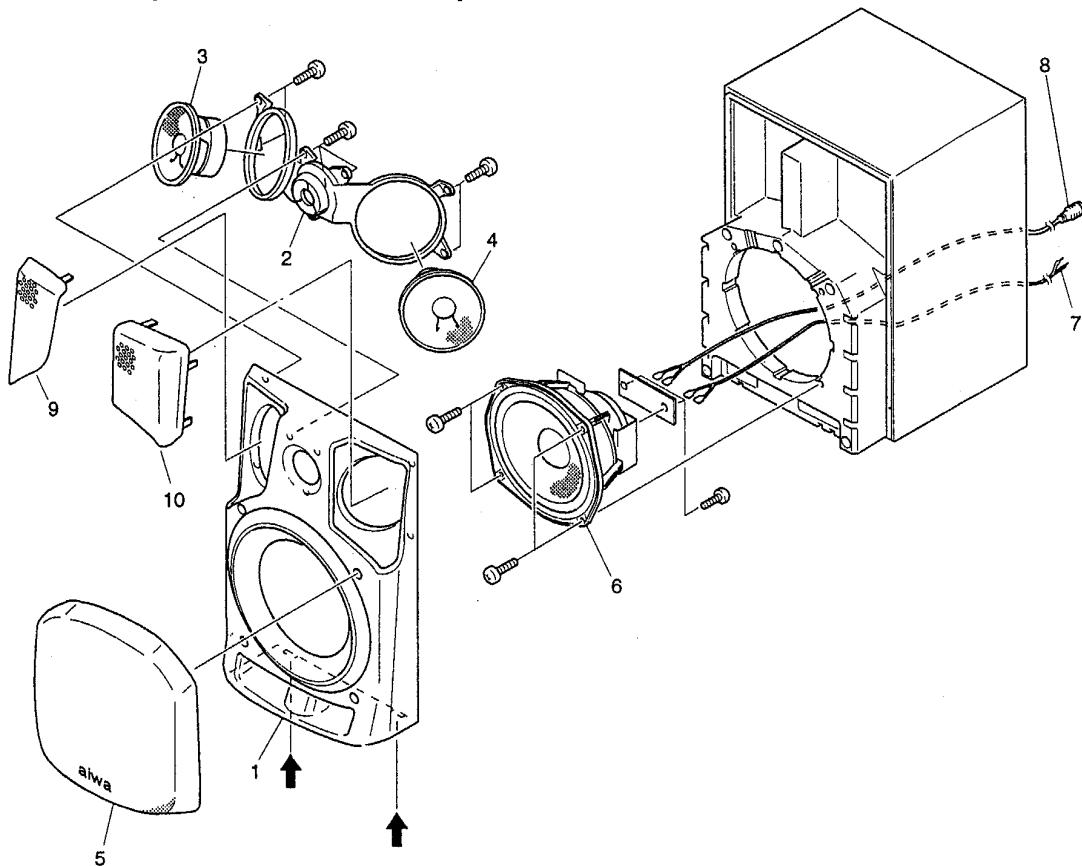
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NST-001-010		PANEL FR R<70Y>	8	86-NST-604-010		SPEAKER T 60<70Y>
1	86-NSS-009-010		PANEL FR 80 R<80YJ>	8	86-NSR-604-010		SPEAKER TW 60<80YJ>
2	86-NST-002-010		PANEL FR L<70Y>	9	82-NSE-610-010		CERAMIC<70Y>
2	86-NSS-010-010		PANEL FR 80 L<80YJ>	9	82-NSE-610-010		CERAMIC<80YJ>
3	86-NST-003-010		PANEL BA<70Y>	10	83-NS8-009-010		DIAPHRAGM<70Y>
4	86-NST-006-010		GRILLE FRAME ASSY<70Y>	10	83-NS8-009-010		DIAPHRAGM<80YJ>
5	86-NSR-005-010		GRILLE FRAME ASSY R<80YJ>	11	83-096-614-010		SPEAKER CORD<70Y>
6	86-NSR-006-010		GRILLE FRAME ASSY L<80YJ>	11	83-096-614-010		SPEAKER CORD<80YJ>
7	86-NS5-608-010		SPEAKER W 140<70Y>				
7	86-NSS-602-010		SPEAKER W 140 H<80YJ>				

SPEAKER DISASSEMBLY INSTRUCTIONS

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 PARTS LIST 2/2 (SX-FNV800)

If cant understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS5-027-019		PANEL FR ST
2	86-NS5-028-019		HLDR SQ ASSY
3	86-NS5-604-019		SPEAKER TWEETER
4	86-NS5-606-019		SPEAKER
5	86-NS5-007-019		GRILLE FRAME ASSY
6	86-NS5-602-019		SPEAKER WOOFER
7	83-NS5-613-019		SPEAKER CORD ASSY
8	85-NS6-611-019		SPEAKER CORD Y/B
9	86-NS5-011-019		PROTECTOR TW L
10	86-NS5-010-019		PROTECTOR TW R

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NH6-901-119		IB, H(ECA)-M<HK>
1	86-NH6-902-019		IB, H(ECA)-M NK700<HE>
1	86-NH6-904-019		IB, E(EGFSI)-M<EZ>
2	86-MG3-701-119		RC UNIT, 6AS08
3	87-A90-054-019		ANT,LOOP AM-CON C<HK, HE>
3	87-006-225-019		ANT,LOOP ANT NC2<EZ>
4	87-A90-064-019		FEEDER-ANT, FM(SHS)<HK, HE>
4	87-043-106-019		ANT,FM 1007AWG<EZ>
5	87-043-095-019		ANTENNA WIRE<HK, HE>
6	87-050-050-019		CORD-1.5M PIN-PIN M<HK, HE>
6	87-050-073-119		CORD,EURO<EZ>
△7	87-099-789-019		PLUG,ADPTR IR44<HK, HE>

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, MELE
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
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G- -	
G- -	

**アイワ株式会社
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