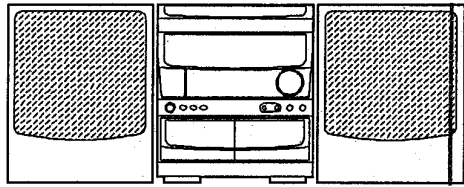


aiwa



NSX-V770



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR5N
- BASIC CD MECHANISM : 4ZG-1 ZDNM
- TYPE : EZ

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-V770	CX-NV770 (TYPE : EZ)	SX - FNV700	RC - T503


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

SERVICE MANUAL

SPECIFICATIONS

<FM tuner section>	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna	75 ohms (unbalanced)
<AM (MW) tuner section>	
Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna
<LW tuner section>	
Tuning range	144kHz ~ 290kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna
<Amplifier section>	
Power output	(without connecting to the SURROUND SPEAKERS) 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/ DIN 45324) DIN MUSIC POWER: 60 W + 60 W
Total Harmonic distortion	0.05% (15 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 150mV MIC 1, MIC 2: 1.0 mV (10 kohms)
Outputs	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
<Cassette deck section>	
Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO ₂ tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback/erase head x 1
<Compact disc player section>	
Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-FNV700>	
Cabinet type	3way, bass reflex with surround speaker (Magnetic shielded type)
Speakers	Woofer: 140 mm (5 ⁵ / ₈ in.) cone type Tweeter: 80mm (3 ¹ / ₄ in.) cone type Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic type Surround speaker: 80mm (3 ¹ / ₄ in.) cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 302 x 270 mm (9 ³ / ₈ x 12 x 10 ³ / ₄ in.)
Weight	3.8 kg (8 lbs 6 oz.) (LH)
<General>	
Power requirements	230 V AC, 50Hz
Power consumption	195 W
Dimensions of main unit (W x H x D)	260 x 307 x 328 mm (10 ¹ / ₄ x 12 ¹ / ₈ x 13 in.)
Weight of main unit	7.3 kg (16 lbs 20 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", 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 ylittäville 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

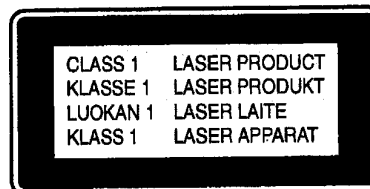
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

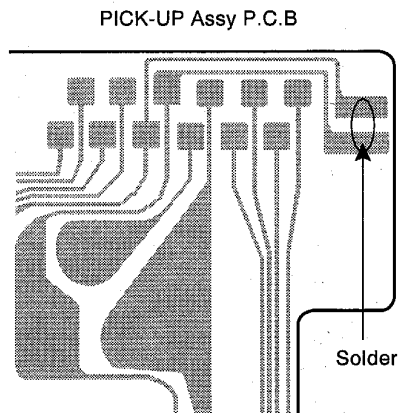


Precaution to replace Optical block

(KSS – 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.



ELECTRICAL MAIN PARTS LIST






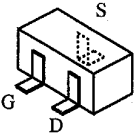

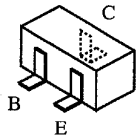
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC							
	86-NF6-670-010		C-IC UPD78045HGF-014	C145	87-010-196-089		C-CAP,S 0.1-25 F
	87-A20-101-019		IC,STK405-070A	C146	87-010-390-099		CAP,E 3300-25 SME
	87-070-083-019		IC,GP1U281X	C151	87-012-368-089		C-CAP,S 0.1-50F
	87-070-121-010		IC,HA12185NT	C152	87-012-368-089		C-CAP,S 0.1-50F
	87-001-874-010		IC,HA12134A	C153	87-016-474-099		CAP,E 3300-50
	87-017-915-019		C-IC,BU4094 BCF	C154	87-016-474-099		CAP,E 3300-50
	87-017-914-019		IC,BU4094 BC	C161	87-010-401-089		CAP,E 1-50 SME
	87-017-804-019		IC,BU4052BC	C172	87-012-140-089		C-CAP,S 470P-50 CH
	87-A20-107-019		IC,BA3836	C173	87-010-405-089		CAP,E 10-50 SME
	87-017-888-089		IC,NJM4558MD	C181	87-010-101-089		CAP,E 220-16 SME
	87-A20-069-049		C-IC,BA3842F	C182	87-010-381-089		CAP,E 330-16 SME
	87-070-127-119		IC,LC72131D	C197	87-010-196-089		C-CAP,S 0.1-25 F
	87-017-714-119		IC,LA1836L	C198	87-010-196-089		C-CAP,S 0.1-25 F
	87-A20-070-019		IC-LV1100	C201	87-010-400-089		CAP,E 0.47-50 SME
	87-020-454-010		IC,DN6851	C202	87-010-400-089		CAP,E 0.47-50 SME
	87-070-232-019		IC,BA3834S	C203	87-010-177-089		C-CAP,S 820P-50 SL
				C204	87-010-177-089		C-CAP,S 820P-50 SL
				C205	87-010-182-089		C-CAP,S 2200P-50 B
				C206	87-010-182-089		C-CAP,S 2200P-50 B
				C207	87-010-402-089		CAP,E 2.2-50 SME
TRANSISTOR							
	87-026-610-089		TR,KTC3198GR	C208	87-010-402-089		CAP,E 2.2-50 SME
	89-324-122-089		C-TR,2SC2412KR	C209	87-010-402-089		CAP,E 2.2-50 SME
	89-110-372-089		C-TR,2SA1037R	C210	87-010-402-089		CAP,E 2.2-50 SME
	87-026-609-089		TR,KTA1266GR	C211	87-010-318-089		C-CAP,S 47P-50 CH
	89-213-702-019		TR 2SB1370E	C212	87-010-318-089		C-CAP,S 47P-50 CH
	89-332-665-089		TR,2SC3266GR	C213	87-010-147-089		C-CAP,S 3P-50 CH
	89-406-555-089		TR,2SD655E	C214	87-010-147-089		C-CAP,S 3P-50 CH
	87-026-218-089		TR,DTC144ES	C215	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-286-089		TR,DTA143ES	C216	87-010-196-089		C-CAP,S 0.1-25 F
	89-502-466-089		TR FET 2SK246-BL (TPE2)	C217	87-010-196-089		C-CAP,S 0.1-25 F
	89-333-317-089		TR,2SC3331T	C218	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-216-089		TR,DTA124ES	C219	87-010-198-089		C-CAP,S 0.022-25 B
	89-109-521-089		TR,2SA952K	C220	87-010-198-089		C-CAP,S 0.022-25 B
	89-112-965-089		TR,2SA1296GR	C221	87-010-194-089		C-CAP,S 0.047-25 F
	87-026-219-089		TR,DTA144ES	C261	87-010-197-089		C-CAP,S 0.01-25 B
	89-327-143-089		C-TR,2SC2714 (O)	C262	87-010-197-089		C-CAP,S 0.01-25 B
	89-328-785-089		TR 2SC2878-A (E2-M)	C263	87-010-197-089		C-CAP,S 0.01-25 B
	87-026-269-089		TR,DTA114ES	C264	87-010-197-089		C-CAP,S 0.01-25 B
	89-503-602-089		C-FET,2SK360E	C301	87-010-197-089		C-CAP,S 0.01-25 B
	87-026-214-089		TR,DTA114YS	C311	87-012-155-089		C-CAP,S 180P-50 CH
	89-505-434-549		C-FET,2SK543(4/5)	C312	87-012-155-089		C-CAP,S 180P-50 CH
	87-026-463-089		TR,2SA933S(RS)	C313	87-010-181-089		C-CAP,S 1800P-50 B
	87-A30-047-089		TR,CSD655E	C314	87-010-181-089		C-CAP,S 1800P-50 B
	87-A30-065-089		TR,2SC2785FE	C321	87-012-145-089		C-CAP,S 270P-50CH
	87-A30-066-089		TR,2SA1175FE	C322	87-012-145-089		C-CAP,S 270P-50CH
	87-026-293-089		TR,DTC144WS	C323	87-012-154-089		C-CAP,S 150P-50 CH
	89-320-011-089		TR,2SC2001K	C324	87-012-154-089		C-CAP,S 150P-50 CH
				C325	87-010-179-089		C-CAP,S 1200P-50 B
				C326	87-010-179-089		C-CAP,S 1200P-50 B
				C333	87-010-198-089		C-CAP,S 0.22-25 B
DIODE							
	87-020-027-089		C-DIODE,1SS184	C334	87-010-198-089		C-CAP,S 0.22-25 B
	87-020-125-089		C-DIODE,1SS181	C337	87-010-400-089		CAP,E 0.47-50 SME
	87-017-978-089		DIODE,1N4003	C338	87-010-400-089		CAP,E 0.47-50 SME
	87-017-437-089		DIODE,1N4148M	C339	87-010-371-089		CAP,E 470-6.3 11L
	87-A40-116-069		DIODE,RS403L-B-D-51	C340	87-010-196-089		C-CAP,S 0.1-25 F
	87-A40-202-089		ZENER UZ 5.1BSB	C355	87-010-401-089		CAP,E 1-50 SME
	87-A40-201-089		ZENER UZ 4.7BSA	C356	87-010-401-089		CAP,E 1-50 SME
	87-A40-200-089		ZENER UZL 11L3	C357	87-010-178-089		C-CAP,S 1000P-50 B
	87-A40-199-089		ZENER,UZL 6H2	C359	87-010-196-089		C-CAP,S 0.1-25 F
	87-A40-209-089		ZENER,UT 27BSD	C360	87-010-196-089		C-CAP,S 0.1-25 F
				C371	87-012-156-089		C-CAP,S 220P-50 CH
				C372	87-012-156-089		C-CAP,S 220P-50 CH
				C373	87-010-177-089		C-CAP,S 820P-50 SL
				C374	87-010-175-089		C-CAP,S 560P-50 UJ
				C376	87-010-392-089		CAP,E 33-35 SME
MAIN C.B							
BPF831	87-030-105-019		FLTR,BPM B6A	C377	87-010-198-089		C-CAP,S 0.022-25 B
C131	87-010-403-089		CAP,E 3.3-50 SME	C378	87-010-197-089		C-CAP,S 0.01-25 B
C141	87-010-384-089		CAP,E 100-25 SME	C379	87-010-183-089		C-CAP,S 2700P-50 B
C142	87-010-384-089		CAP,E 100-25 SME	C380	87-010-183-089		C-CAP,S 2700P-50 B
C143	87-010-764-089		CAP,E 47-63V	C381	87-010-183-089		C-CAP,S 2700P-50 B
C144	87-010-196-089		C-CAP,S 0.1-25 F				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C401	87-012-142-089		C-CAP,S 0.33-16 F	C799	87-010-405-089		CAP,E 10-50 SME
C402	87-012-142-089		C-CAP,S 0.33-16 F	C801	87-010-197-089		C-CAP,S 0.01-25 B
C403	87-010-177-089		C-CAP,S 820P-50 SL	C802	87-010-312-089		C-CAP,S 15P-50 CH
C404	87-010-177-089		C-CAP,S 820P-50 SL	C803	87-018-134-089		CAP,TC-U 0.01-16 Y
C405	87-010-545-089		CAP,E 0.22-50 SME	C805	87-010-146-089		C-CAP,S 2P-50 CH
C406	87-010-545-089		CAP,E 0.22-50 SME	C806	87-010-147-089		C-CAP,S 3P-50 CH
C407	87-010-400-089		CAP,E 0.47-50 SME	C807	87-010-312-089		C-CAP,S 15P-50 CH
C408	87-010-400-089		CAP,E 0.47-50 SME	C808	87-010-322-089		C-CAP,S 100P-50 CH
C409	87-010-405-089		CAP,E 10-50 SME	C809	87-010-197-089		C-CAP,S 0.01-25 B
C452	87-010-184-089		C-CAP,S 3300P-50 B	C810	87-010-197-089		C-CAP,S 0.1-25 B
C453	87-010-312-089		C-CAP,S 15P-50 CH	C811	87-010-149-089		C-CAP,S 5P-50 CH
C455	87-010-197-089		C-CAP,S 0.01-25 B	C812	87-010-314-089		C-CAP,S 22P-50 CH
C456	87-010-402-089		CAP,E 2.2-50 SME	C813	87-010-197-089		C-CAP,S 0.01-25 B
C521	87-010-181-089		C-CAP,S 1800P-50 B	C814	87-010-197-089		C-CAP,S 0.01-25 B
C522	87-010-181-089		C-CAP,S 1800P-50 B	C817	87-010-196-089		C-CAP,S 0.1-25 F
C523	87-010-178-089		C-CAP,S 1000P-50 B	C820	87-010-260-089		CAP,E 47-25 SME
C524	87-010-178-089		C-CAP,S 1000P-50 B	C821	87-010-197-089		C-CAP,S 0.01-25 B
C527	87-010-220-089		C-CAP,S 0.018-25 B	C823	87-010-197-089		C-CAP,S 0.01-25 B
C528	87-010-220-089		C-CAP,S 0.018-25 B	C825	87-010-196-089		C-CAP,S 0.1-25 F
C529	87-010-400-089		CAP,E 0.47-50 SME	C827	87-010-145-089		C-CAP,S 1P-50 CH
C530	87-010-400-089		CAP,E 0.47-50 SME	C831	87-010-312-089		C-CAP,S 15P-50 CH
C531	87-010-382-089		CAP,E 22-25 SME	C832	87-010-314-089		C-CAP,S 22P-50 CH
C532	87-010-198-089		C-CAP,S 0.022-25 B	C833	87-010-197-089		C-CAP,S 0.01-25 B
C551	87-010-401-089		CAP,E 1-50 SME	C834	87-010-311-089		C-CAP,S 12P-50 CH
C552	87-010-401-089		CAP,E 1-50 SME	C835	87-010-154-089		C-CAP,S 10P-50 CH
C553	87-010-194-089		C-CAP,S 0.047-25 F	C836	87-010-312-089		C-CAP,S 15P-50 CH
C554	87-010-183-089		C-CAP,S 2700P-50 B	C837	87-010-312-089		C-CAP,S 15P-50 CH
C555	87-010-196-089		C-CAP,S 0.1-25 F	C843	87-010-146-089		C-CAP,S 2P-50 CH
C556	87-010-263-089		CAP,E 100-10 SME 5X11	C849	87-010-197-089		C-CAP,S 0.01-25 B
C557	87-010-596-089		C-CAP,S 0.047-16 RK	C851	87-010-197-089		C-CAP,S 0.01-25 B
C558	87-010-545-089		CAP,E 0.22-50 SME	C901	87-010-197-089		C-CAP,S 0.01-25 B
C562	87-010-596-089		C-CAP,S 0.047-16 RK	C942	87-010-148-089		C-CAP,S 4P-50 CH
C601	87-010-198-089		C-CAP,S 0.022-25 B	C946	87-010-401-089		CAP,E 1-50 SME
C701	87-010-404-089		CAP,E 4.7-50 SME	C952	87-010-197-089		C-CAP,S 0.01-25 B
C702	87-010-197-089		C-CAP,S 0.01-25 B	C955	87-010-197-089		C-CAP,S 0.01-25 B
C703	87-010-197-089		C-CAP,S 0.01-25 B	C957	87-010-315-089		C-CAP,S 27P-50 CH
C704	87-010-178-089		C-CAP,S 1000P-50 B	C958	87-010-197-089		C-CAP,S 0.01-25 B
C707	87-010-402-089		CAP,E 2.2-50 SME	C960	87-010-196-089		C-CAP,S 0.1-25 F
C708	87-010-402-089		CAP,E 2.2-50 SME	C988	87-010-198-089		C-CAP,S 0.022-25 B
C711	87-010-263-089		CAP,E 100-10 SME 5X11	C999	87-010-196-089		C-CAP,S 0.1-25 F
C712	87-010-112-089		CAP,E 100-16 11L	CF801	87-008-423-089		CF,SFE 10.7 MS3G-A
C722	87-010-152-089		C-CAP,S 8P-50 CH	CF802	82-785-747-089		CF,MS2 GHY,R
C723	87-010-178-089		C-CAP,S 1000P-50 B	D801	87-002-730-089		VARI-CAP SVC203SPA
C725	87-010-178-089		C-CAP,S 1000P-50 B	D802	87-002-730-089		VARI-CAP SVC203SPA
C727	87-010-196-089		C-CAP,S 0.1-25 F	D803	87-002-730-089		VARI-CAP SVC203SPA
C728	87-010-248-089		CAP,E 220-10 SME	D804	87-002-730-089		VARI-CAP SVC203SPA
C729	87-010-197-089		C-CAP,S 0.01-25 B	FT510	83-NF5-632-019		CABLE FFC 6P-1.25
C730	87-018-134-089		CAP,TC-U 0.01-16 Y	IFT806	87-A50-018-019		COIL,FM IFT(4T)COI
C770	87-010-197-089		C-CAP,S 0.01-25 B	J241	87-099-678-019		JACK,6.3 W/S BLK
C771	87-010-405-089		CAP,E 10-50 SME	J261	87-A60-238-019		TERMINAL,SP 45 MSC
C772	87-010-194-089		C-CAP,S 0.047-25 F	J281	87-099-474-019		JACK,PIN 3P BLK
C773	87-010-196-089		C-CAP,S 0.1-25 F	J501	80-MT3-616-019		JACK,PIN 2P
C774	87-010-263-089		CAP,E 100-10 SME 5X11	J801	87-033-241-019		TERMINAL,ANT AJ-2039
C775	87-010-405-089		CAP,E 10-50 SME	L261	87-003-383-019		COIL,1UH-S
C776	87-010-197-089		C-CAP,S 0.01-25 B	L262	87-003-383-019		COIL,1UH-S
C777	87-010-400-089		CAP,E 0.47-50 SME	L351	87-A50-049-019		COIL,TRAP 85K
C778	87-010-401-089		CAP,E 1-50 SME	L352	87-A50-049-019		COIL,TRAP 85K
C779	87-010-401-089		CAP,E 1-50 SME	L371	87-007-342-019		COIL,OSC 85K BIAS
C780	87-010-197-089		C-CAP,S 0.01-25 B	L701	87-A50-027-019		COIL,1 POLE MPX (TOK)
C787	87-010-184-089		C-CAP,S 3300P-50 B	L702	87-A50-027-019		COIL,1 POLE MPX (TOK)
C788	87-010-184-089		C-CAP,S 3300P-50 B	L741	87-A50-015-019		COIL,FM DET(TOK)
C789	87-010-179-089		C-CAP,S 1200P-50 B	L742	87-A90-051-019		FLTR,CFMZ-450(TOK)
C790	87-010-179-089		C-CAP,S 1200P-50 B	L770	87-003-102-089		COIL,10UH
C791	87-010-401-089		CAP,E 1-50 SME	L790	87-005-564-089		C-COIL,S 2,2UH K
C792	87-010-183-089		C-CAP,S 2700P-50 B	L801	87-006-249-019		COIL,ANT FM3/4TS,L4
C793	87-010-189-089		C-CAP,S 8200P-50 B	L802	87-006-251-019		COIL,ANT FM2-3/4TS,L4
C794	87-010-260-089		CAP,E 47-25 SME	L803	87-006-244-019		COIL,RF FM 3-1/2TS,L4
C795	87-010-194-089		C-CAP,S 0.047-25 F	L804	87-006-250-019		COIL,RF FM 3-1/2TS,L4
C796	87-010-403-089		CAP,E 3.3-50 SME	L805	87-003-098-089		COIL,2,2UH
C797	87-010-197-089		C-CAP,S 0.01-25 B	L807	87-A50-031-019		COIL,FM OSC (TOK)

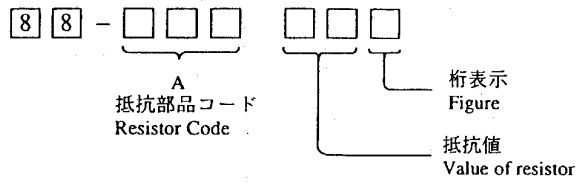
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L831	87-006-250-019		COIL,RF FM 3-1/2TS,L4	C715	87-010-384-049		CAP,E 100-25 SME
L832	87-003-098-089		COIL,2.2UH	C851	87-010-196-089		C-CAP,S 0.1-25 F
L941	87-A50-020-019		COIL,ANT LW	C852	87-010-194-089		C-CAP,S 0.047-25 F
L942	87-A50-019-019		COIL,OSC LW	C853	87-010-406-049		CAP,E 22-50 SME
L981	86-NF4-665-019		AM PACK 1(TOK)	C854	87-010-560-049		CAP,E 10-50 GAS
R191	87-022-050-089		RES,M/F 0.22-1W	EMI600	87-008-372-089		FLIR EMI BLOIRNI
R192	87-022-050-089		RES,M/F 0.22-1W	FL301	86-NF6-660-019		FL,BJ478GK
RY151	87-045-361-019		RELAY,DH12D2-OS(M)-2	FT101	85-NF5-615-019		CABLE,FFC 15P-1.25
RY281	87-045-382-019		RELAY,OUAZ-SH-112L	FT102	88-913-261-119		CABLE FFC,13P-1.25
SFR311	87-024-174-089		SFR 33K DIA.6 V	J601	87-A60-284-019		JACK,3.5 MO(MSC)
SFR312	87-024-174-089		SFR 33K DIA.6 V	J602	82-A60-284-019		JACK,3.5 MO(MSC)
SFR321	87-024-174-089		SFR 33K DIA.6 V	L201	87-007-340-019		COIL,CLOCK 4.19MHZ
SFR322	87-024-174-089		SFR 33K DIA.6 V	L203	87-003-098-089		COIL,2.2UH M LAL02
SFR371	87-024-175-089		SFR,47K DIA6 V	L204	87-003-098-089		COIL,2.2UH M LAL02
SFR372	87-024-175-089		SFR,47K DIA6 V	L205	87-003-098-089		COIL,2.2UH M LAL02
SFR401	87-024-175-089		SFR,47K DIA6 V	LED401	87-070-201-089		LED,SLP9118C-51-S-T1
SFR402	87-024-175-089		SFR,47K DIA6 V	LED402	87-070-201-089		LED,SLP9118C-51-S-T1
SFR722	87-024-353-089		SFR,10K DIA6 H	LED403	87-070-201-089		LED,SLP9118C-51-S-T1
TC721	87-011-253-089		TRIMMER,30P LAR	LED404	87-070-201-089		LED,SLP9118C-51-S-T1
TC801	87-011-252-089		TRIMMER 10P LAR	LED411	87-070-199-089		LED,SLP738F-81-S-T1
TC802	87-011-252-089		TRIMMER 10P LAR	LED412	87-070-199-089		LED,SLP738F-81-S-T1
TC803	87-011-252-089		TRIMMER 10P LAR	LED413	87-070-199-089		LED,SLP738F-81-S-T1
TC942	87-011-253-089		TRIMMER,30P LAR	LED414	87-070-199-089		LED,SLP738F-81-S-T1
VR501	82-NF5-660-019		VR,50K BX2 RK14K12A	LED415	87-070-199-089		LED,SLP738F-81-S-T1
W111	85-NF5-628-019		F-CABLE 7P-2.5	LED416	87-070-199-089		LED,SLP738F-81-S-T1
X703	84-508-618-019		VIB,CER CSB 456 F/5	LED417	87-070-199-089		LED,SLP738F-81-S-T1
X721	87-030-372-019		VIB,XTAL 7.2MHZ	LED418	87-070-199-089		LED,SLP738F-81-S-T1
FRONT C.B				LED421	87-017-784-080		LED,SEL 1550CM TP8
C201	87-010-196-089		C-CAP,S 0.1-25 F	LED422	87-017-784-080		LED,SEL 1550CM TP8
C203	87-012-155-089		C-CAP,S 180P-50 CH	LED423	87-017-784-080		LED,SEL 1550CM TP8
C204	87-010-313-089		C-CAP,S 18P-50 CH	LED424	87-017-784-080		LED,SEL 1550CM TP8
C205	87-010-314-089		C-CAP,S 22P-50 CH	LED425	87-017-784-080		LED,SEL 1550CM TP8
C206	87-012-140-089		C-CAP,S 470P-50 CH	LED426	87-017-784-080		LED,SEL 1550CM TP8
C207	87-018-209-089		CAP,TC-U 0.1-25 F	LED431	87-070-278-019		LED,SLZ-738A-24-S
C211	87-010-197-089		C-CAP,S 0.01-25 B	LED432	87-070-278-019		LED,SLZ-738A-24-S
C251	87-010-560-049		CAP,E 10-50 GAS	LED433	87-070-278-019		LED,SLZ-738A-24-S
C252	87-010-263-049		CAP,E 100-10	LED434	87-070-278-019		LED,SLZ-738A-24-S
C253	87-010-248-049		CAP,E 220-10 SME	LED435	87-070-290-019		LED,SLZ 936-30-S
C255	87-010-494-049		CAP,E 1-50 GAS	LED436	87-070-290-019		LED,SLZ 936-30-S
C256	87-010-494-049		CAP,E 1-50 GAS	S301	87-A90-095-089		SW,TACT EVQ11GD4M
C270	87-010-196-089		C-CAP,S 0.1-25 F	S302	87-A90-095-089		SW,TACT EVQ11GD4M
C271	87-010-196-089		C-CAP,S 0.1-25 F	S303	87-A90-095-089		SW,TACT EVQ11GD4M
C272	87-010-196-089		C-CAP,S 0.1-25 F	S304	87-A90-095-089		SW,TACT EVQ11GD4M
C273	87-010-196-089		C-CAP,S 0.1-25 F	S305	87-A90-095-089		SW,TACT EVQ11GD4M
C274	87-010-322-089		C-CAP,S 100P-50 CH	S306	87-A90-095-089		SW,TACT EVQ11GD4M
C275	87-010-196-089		C-CAP,S 0.1-25 F	S307	87-A90-095-089		SW,TACT EVQ11GD4M
C276	87-010-553-089		CAP,E 47-16 5L	S313	87-A90-095-089		SW,TACT EVQ11GD4M
C277	87-018-119-089		CAP,TC-U 100P-50 KBU	S314	87-A90-095-089		SW,TACT EVQ11GD4M
C351	87-010-490-049		CAP ELECT 0.1-50	S315	87-A90-095-089		SW,TACT EVQ11GD4M
C352	87-010-490-049		CAP ELECT 0.1-50	S316	87-A90-095-089		SW,TACT EVQ11GD4M
C353	87-010-408-049		CAP,E 47-50 SME	S317	87-A90-095-089		SW,TACT EVQ11GD4M
C401	87-010-198-089		C-CAP,S 0.022-25 B	S318	87-A90-095-089		SW,TACT EVQ11GD4M
C508	87-010-060-049		CAP,E 100-16 7L	S320	87-A90-095-089		SW,TACT EVQ11GD4M
C601	87-010-405-049		CAP,E 10-50 SME	S321	87-A90-095-089		SW,TACT EVQ11GD4M
C602	87-010-248-049		CAP,E 220-10 SME	S322	87-A90-095-089		SW,TACT EVQ11GD4M
C603	87-010-196-089		C-CAP,S 0.1-25 F	S323	87-A90-095-089		SW,TACT EVQ11GD4M
C604	87-010-186-089		C-CAP,S 4700P-50 B	S324	87-A90-095-089		SW,TACT EVQ11GD4M
C605	87-010-545-049		CAP,E 0.22-50 SME	S325	87-A90-095-089		SW,TACT EVQ11GD4M
C606	87-010-321-089		C-CAP,S 82P-50 CH	S326	87-A90-095-089		SW,TACT EVQ11GD4M
C607	87-010-196-089		C-CAP,S 0.1-25 F	S327	87-A90-095-089		SW,TACT EVQ11GD4M
C608	87-010-196-089		C-CAP,S 0.1-25 F	S328	87-A90-095-089		SW,TACT EVQ11GD4M
C609	87-010-177-089		C-CAP,S 820P-50 SL	S329	87-A90-095-089		SW,TACT EVQ11GD4M
C651	87-010-494-049		CAP,E 1-50 GAS	S330	87-A90-095-089		SW,TACT EVQ11GD4M
C652	87-010-196-089		C-CAP,S 0.1-25 F	VR601	81-MX4-637-019		VR 10KA RK11K1130
C653	87-010-491-049		CAP,E 0.22-50 GAS	VR801	83-NM1-627-019		VR,10KB RK11K1130
C654	87-010-196-089		C-CAP,S 0.1-25 F	MVR C.B			
C655	87-010-404-049		CAP,E 4.7-50 SME	C701	87-010-993-089		C-CAP,S0.056-25 B
C656	87-010-404-049		CAP,E 4.7-50 SME	C702	87-010-993-089		C-CAP,S0.056-25 B

TRANSISTOR ILLUSTRATION

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION						
C703	87-016-460-089		C-CAP,S0.22-16 KB	 <p style="text-align: center;">E C B</p>	 <p style="text-align: center;">E C B</p>	 <p style="text-align: center;">E C B</p>			
C704	87-016-460-089		C-CAP,S0.22-16 KB						
C705	87-016-081-089		C-CAP,S 0.1-16 RK						
C706	87-010-260-049		CAP,E 47-25 SME						
C707	87-010-182-089		C-CAP,S 2200P-50 B						
C708	87-010-182-089		C-CAP,S 2200P-50 B						
C709	87-010-491-049		CAP,E 0.22-50 GAS						
C710	87-010-491-049		CAP,E 0.22-50 GAS	<p>2SA1296GR 2SC3266GR 2SC2878A KTA1266GR KTC3198GR</p>	<p>2SA952K 2SD655E CSD655E 2SC2001K</p>	<p>DTA114YS DTA114ES DTA144ES DTA143ES DTC144ES/WS DTA124ES 2SA933S 2SC2785FE 2SA1175FE</p>			
C711	87-010-401-049		CAP,E 1-50 GAS						
C712	87-010-401-049		CAP,E 1-50 GAS						
C713	87-010-260-049		CAP,E 47-25 SME						
C714	87-010-405-049		CAP,E 10-50 SME						
C716	87-010-196-089		C-CAP,S 0.1-25 F						
C751	87-010-196-089		C-CAP,S 0.1-25 F						
C801	87-010-494-049		CAP,E 1-50 GAS						
C802	87-010-494-049		CAP,E 1-50 GAS						
C805	87-010-248-049		CAP,E 220-10 SME						
C806	87-010-494-049		CAP,E 1-50 GAS						
C807	87-010-494-049		CAP,E 1-50 GAS						
C808	88-700-860-819		CAP,M 0.068-50 J						
C809	87-010-186-089		C-CAP,S 4700P-50 B	 <p style="text-align: center;">S G D</p>	 <p style="text-align: center;">E C B</p>	 <p style="text-align: center;">S G D</p>			
C810	88-700-860-819		CAP,M 0.068-50 J						
C811	87-010-101-049		CAP,E 220-16 SME						
C812	87-010-152-089		C-CAP,S 8P-50 CH						
C813	87-010-152-089		C-CAP,S 8P-50 CH						
C814	87-010-101-049		CAP,E 220-16 SME						
C816	87-010-177-089		C-CAP,S 820P-50 SL						
C817	87-010-196-089		C-CAP,S 0.1-25 F						
C818	87-010-186-089		C-CAP,S 4700P-50 B						
C820	87-012-155-089		C-CAP,S 180P-50 CH						
L801	87-005-446-089		COIL,150UH FLR50						
MVR701	86-NF6-652-019		VR,MOT EUWMGJ035B54				2SK246BL	2SC3331T	2SK543 2SK360E
KEY C.B							 <p style="text-align: center;">B C E</p>	 <p style="text-align: center;">C B E</p>	<p>2SB1370E</p> <p>2SA1037K(R) 2SC2412KR 2SC2714(O)</p>
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						
AC C.B				<p>2SB1370E</p>	<p>2SA1037K(R) 2SC2412KR 2SC2714(O)</p>				
C101	87-010-428-089		C-CAP,S 0.015-25 B						
R111	87-022-184-089		RES,METAL 0.33-1W						
R112	87-022-184-089		RES,METAL 0.33-1W						
PT C.B									
△	82-304-743-019		TERMINAL,1P						
△ F101	87-035-363-019		FUSE,1.25A 250V T E						
△ FC101	87-033-213-089		CLAMP FUSE SMK						
△ FC102	87-033-213-089		CLAMP FUSE SMK						
△ PT101	86-NF6-632-019		PT,6NF-6 EK						
DECK C.B									
SFR1	87-024-581-089		SFR,3.3K DIA 6H						
SOL1	82-ZM1-618-310		SOL ASSY,27						
SOL2	82-ZM1-626-310		SOL ASSY,27K						
SW1	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW2	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW3	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW4	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW5	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW6	87-036-378-019		SW,PUSH 1-1-1 SH2						
SW8	87-036-378-019		SW,PUSH 1-1-1 SH2						
HEAD-1 C.B									
HEAD-2 C.B									

○ チップ抵抗部品コード/CHIP RESISTOR PART CODE

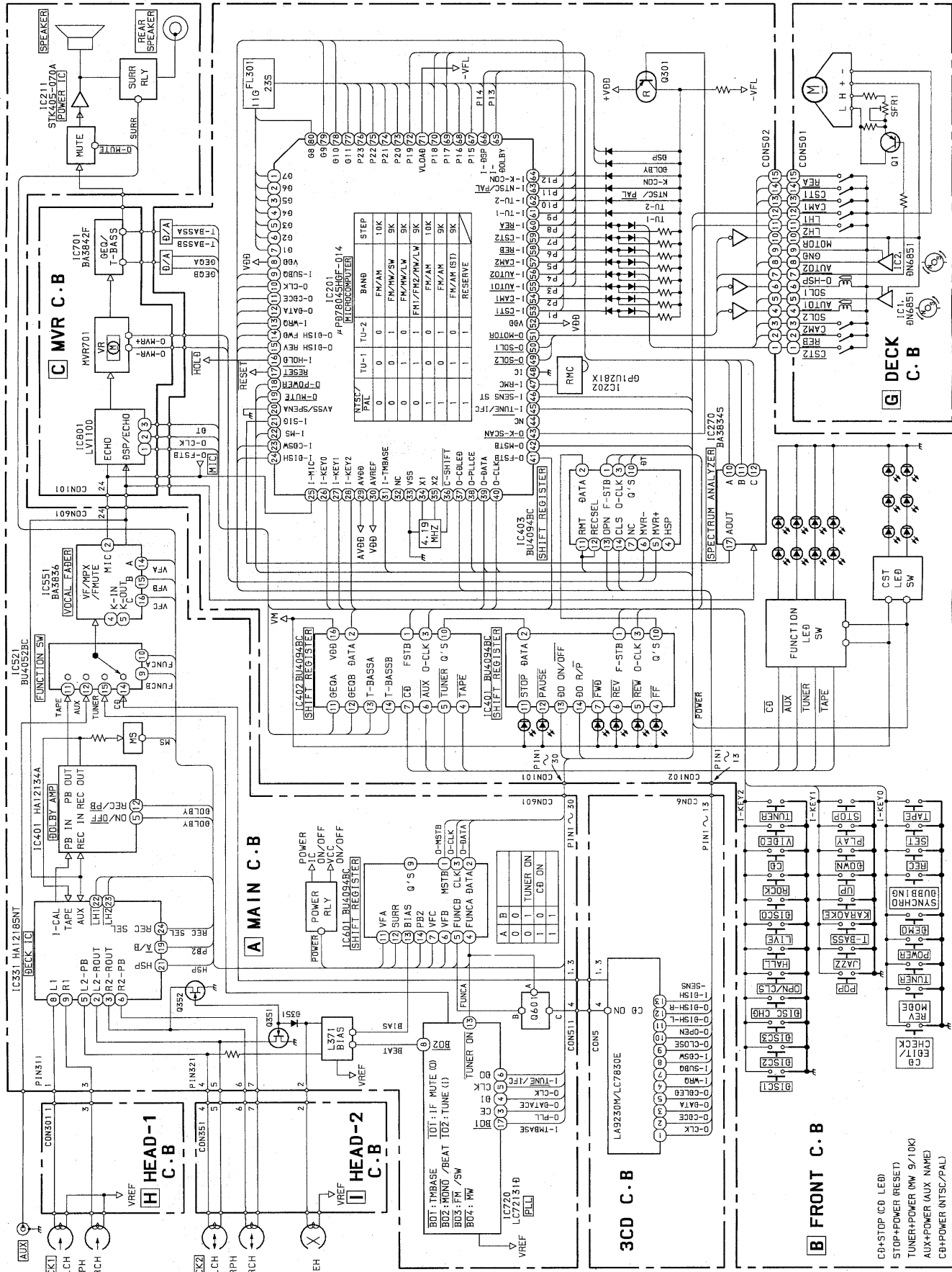
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



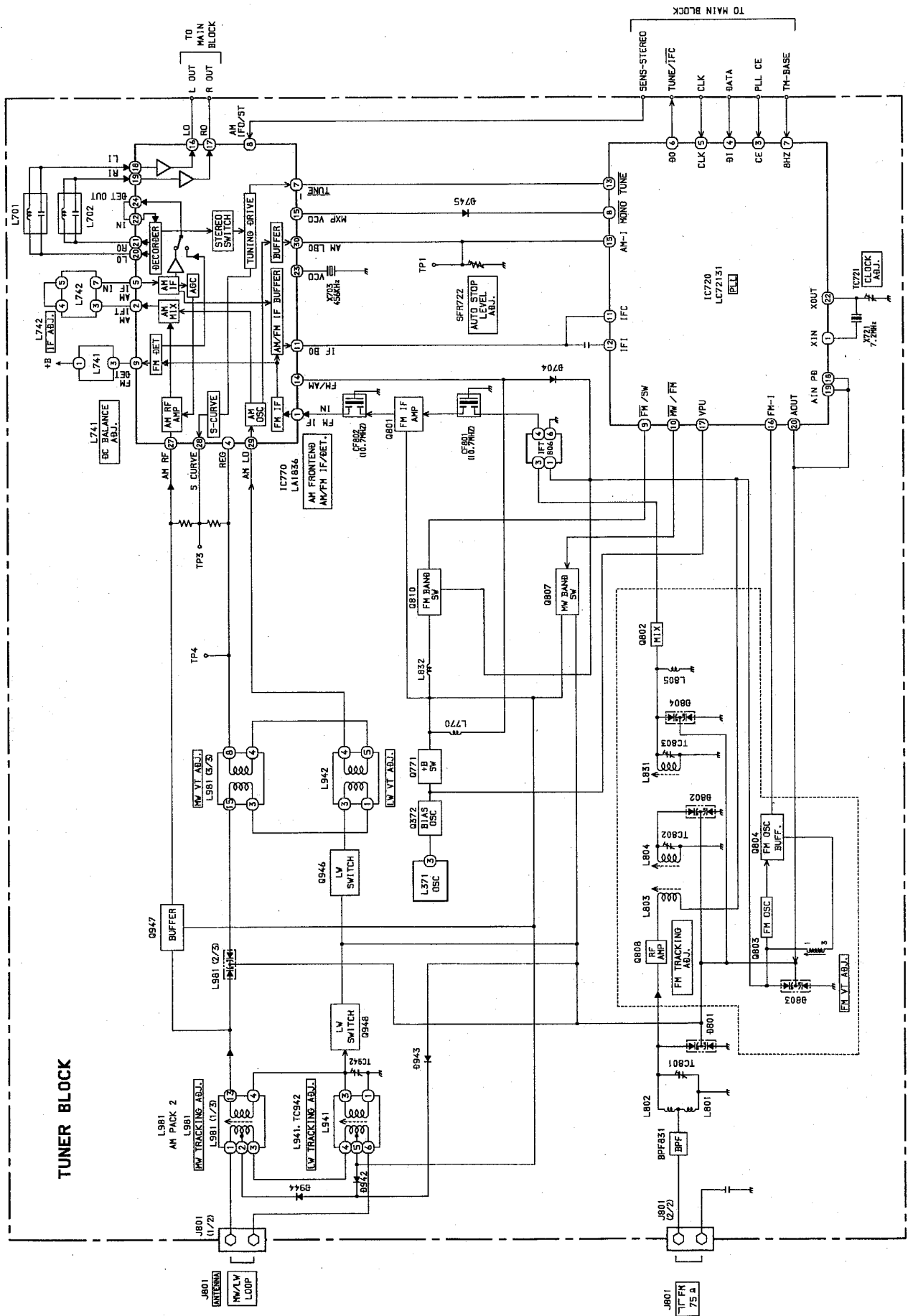
チップ抵抗
Chip resistor

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

BLOCK DIAGRAM - 1 (MAIN / FRONT)

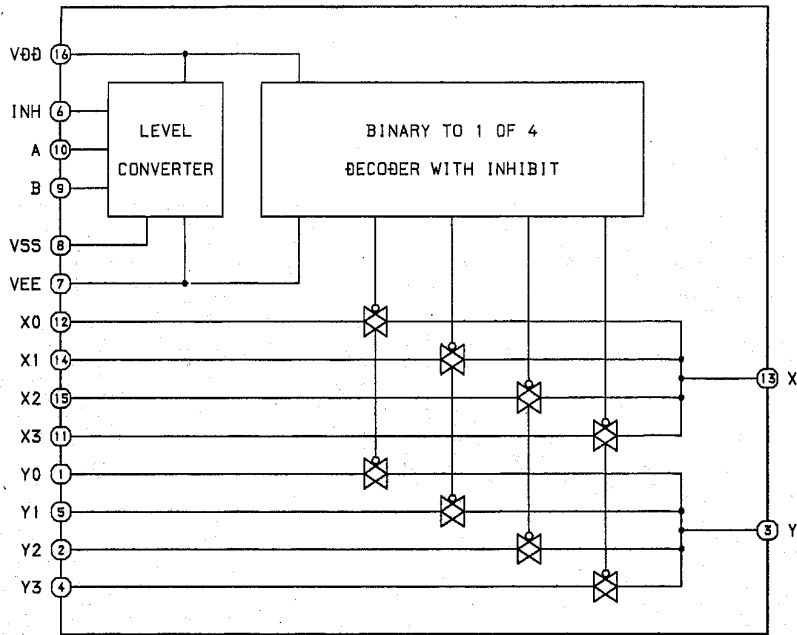


BLOCK DIAGRAM - 2 (TUNER)



IC BLOCK DIAGRAM - 1

IC, BU4052BC

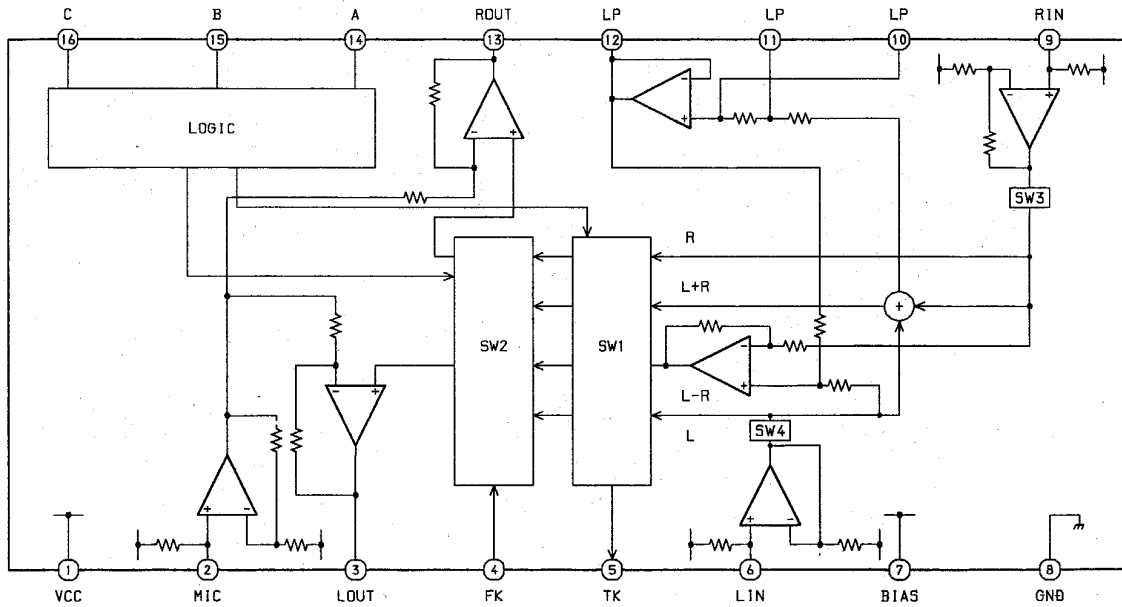


TRUTH TABLE

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

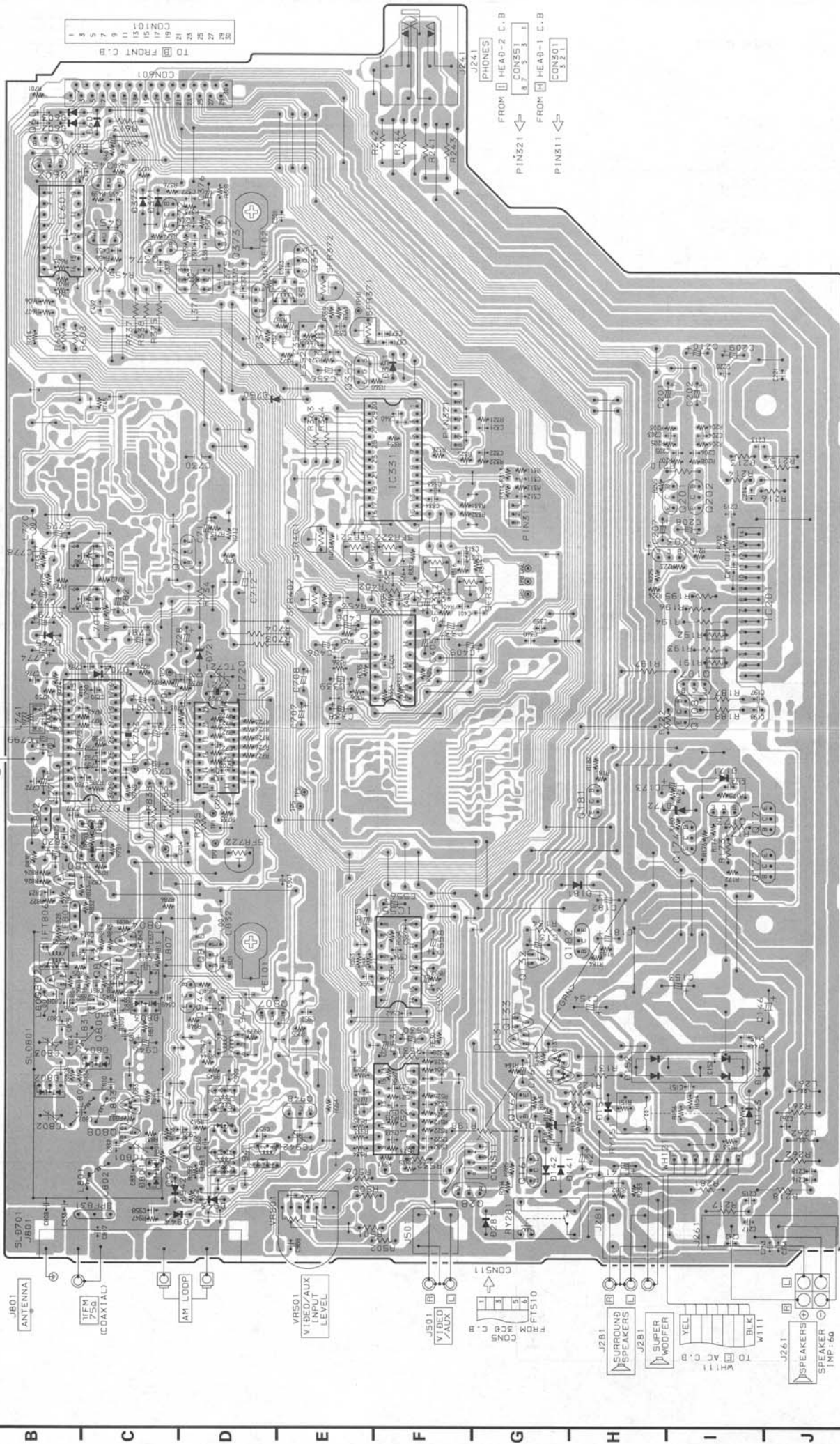
X: DON'T CARE.

IC, BA3836

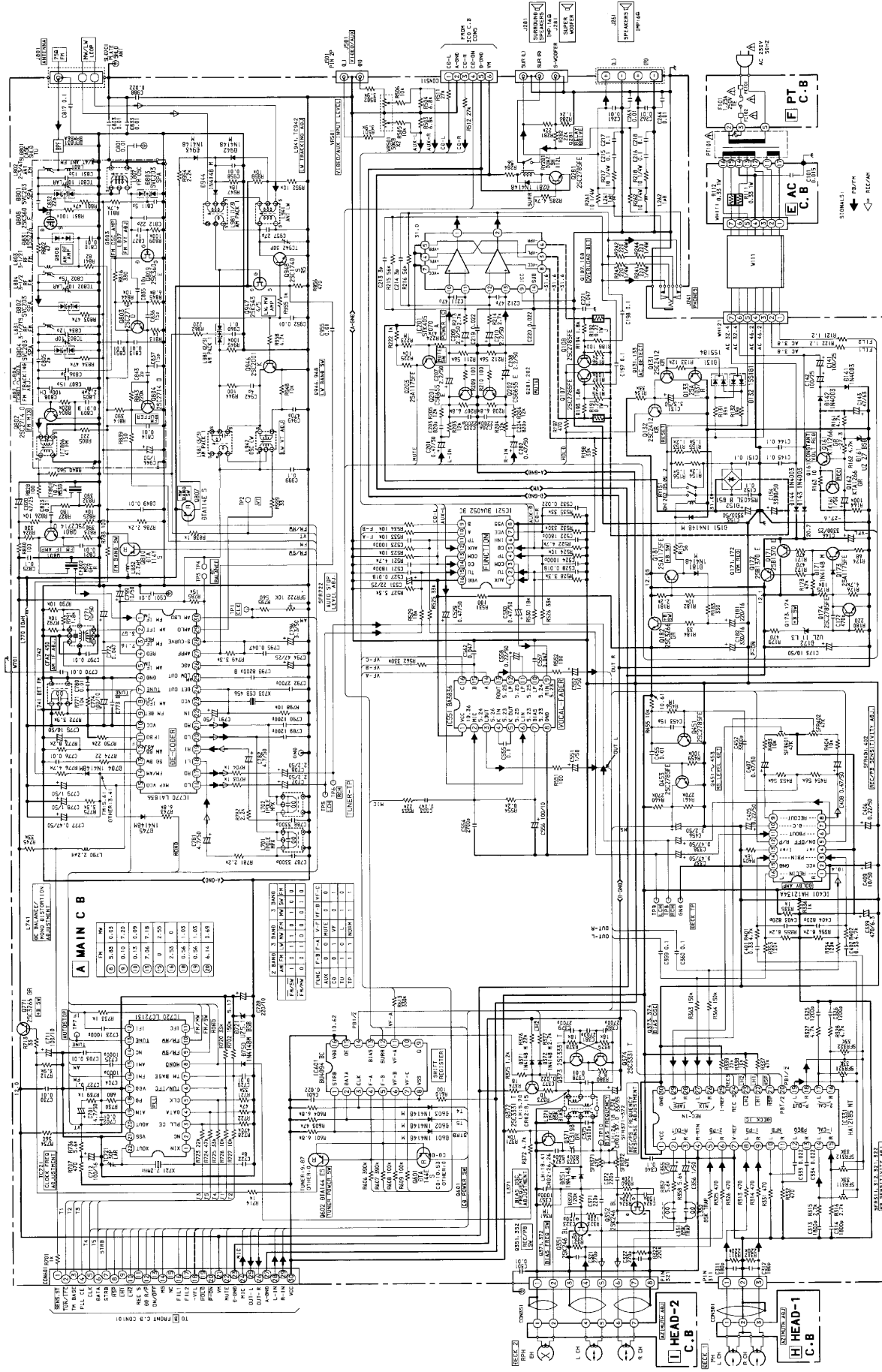


1 2 3 4 5 6 7 8 9 10 11 12 13 14

A MAIN C.B.

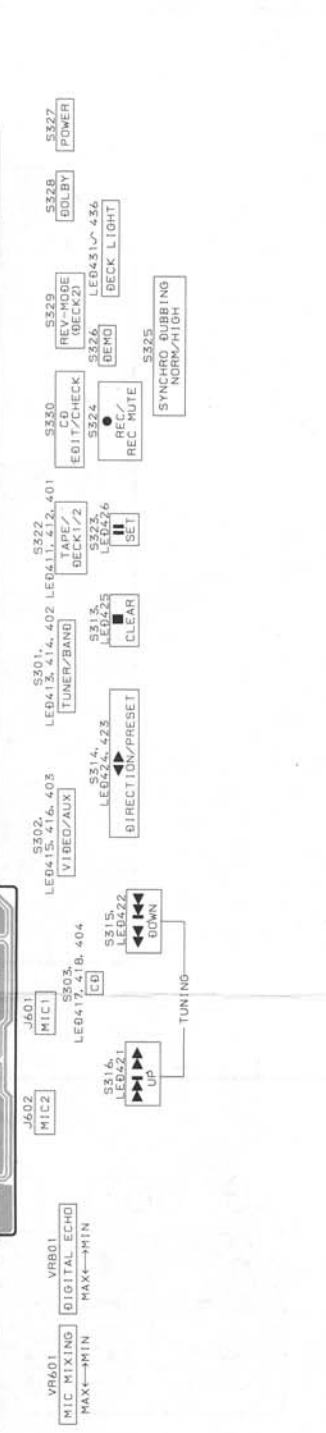
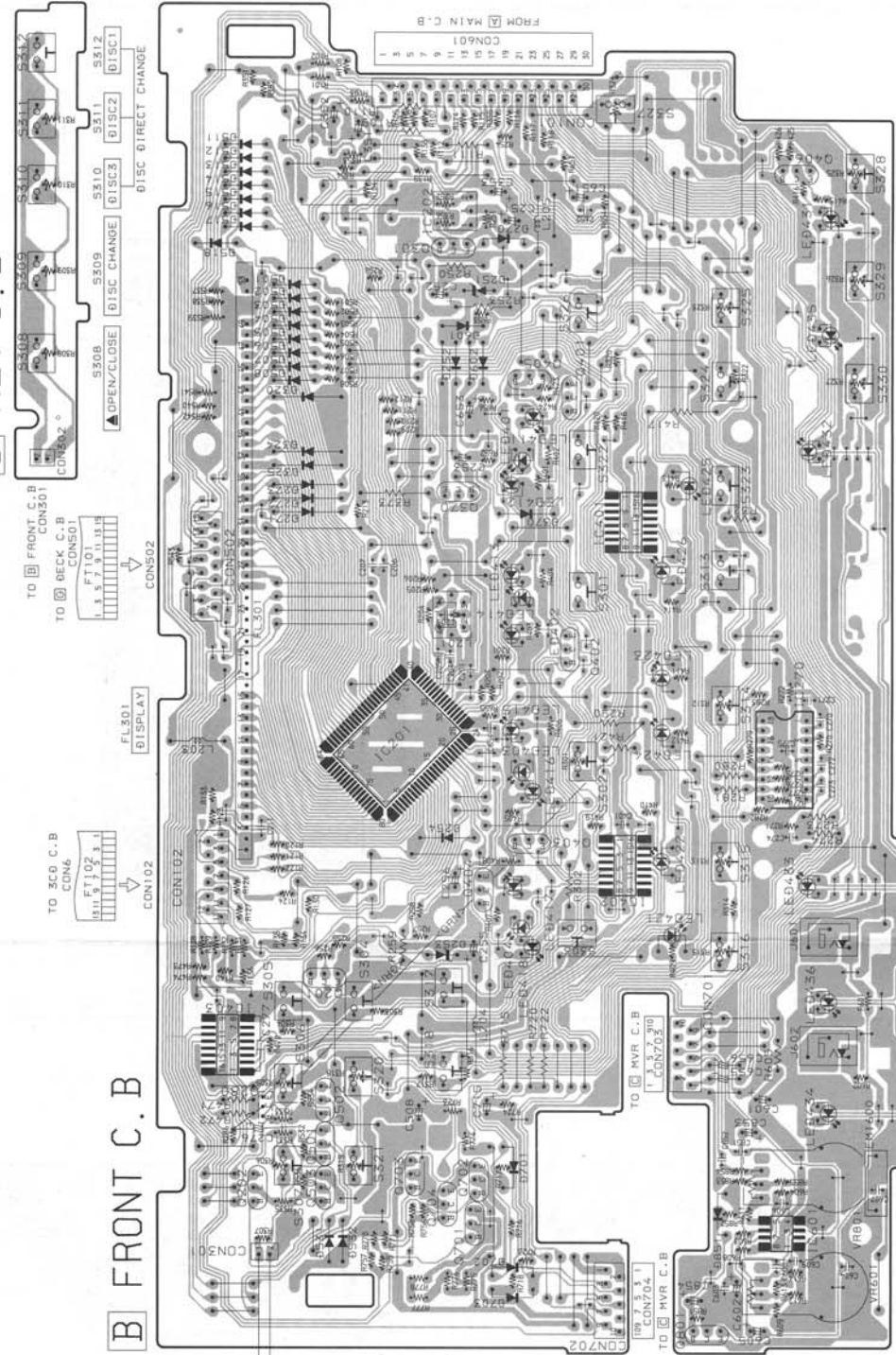


SCHEMATIC DIAGRAM - 1 (MAIN)

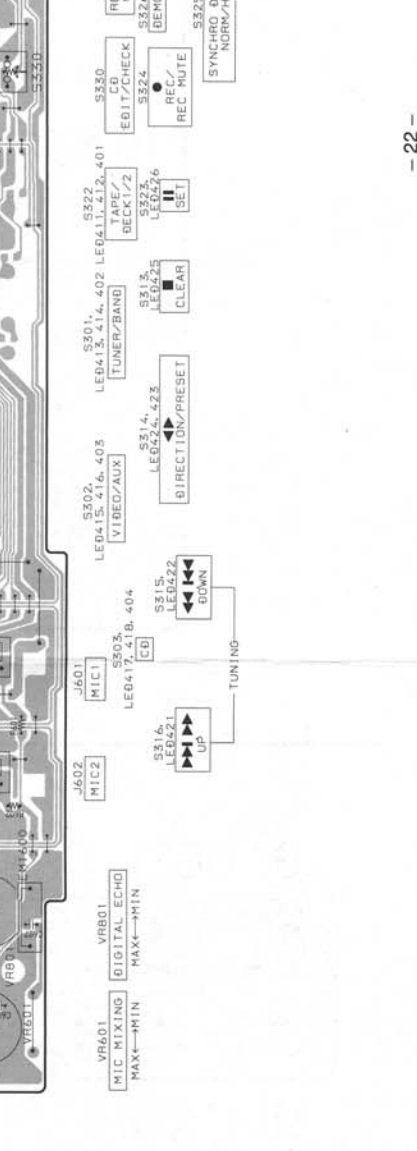
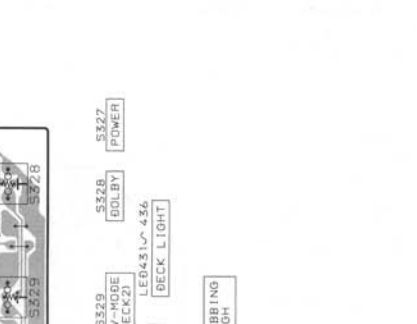
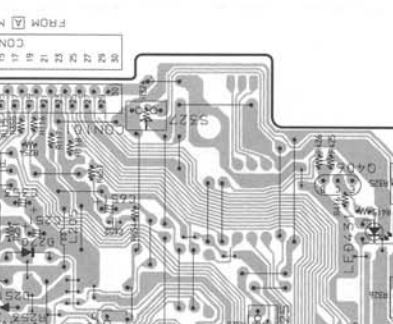
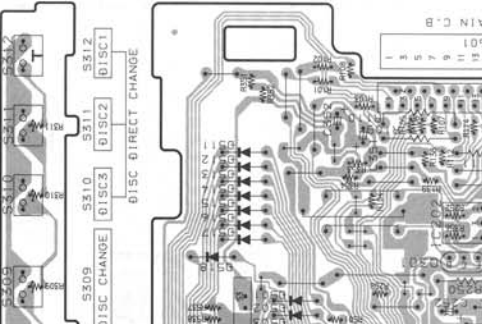


1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

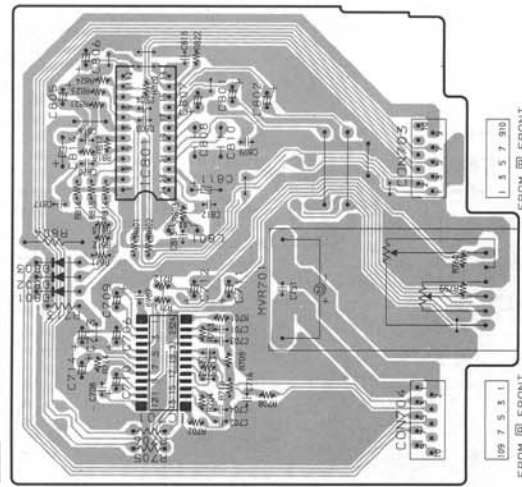


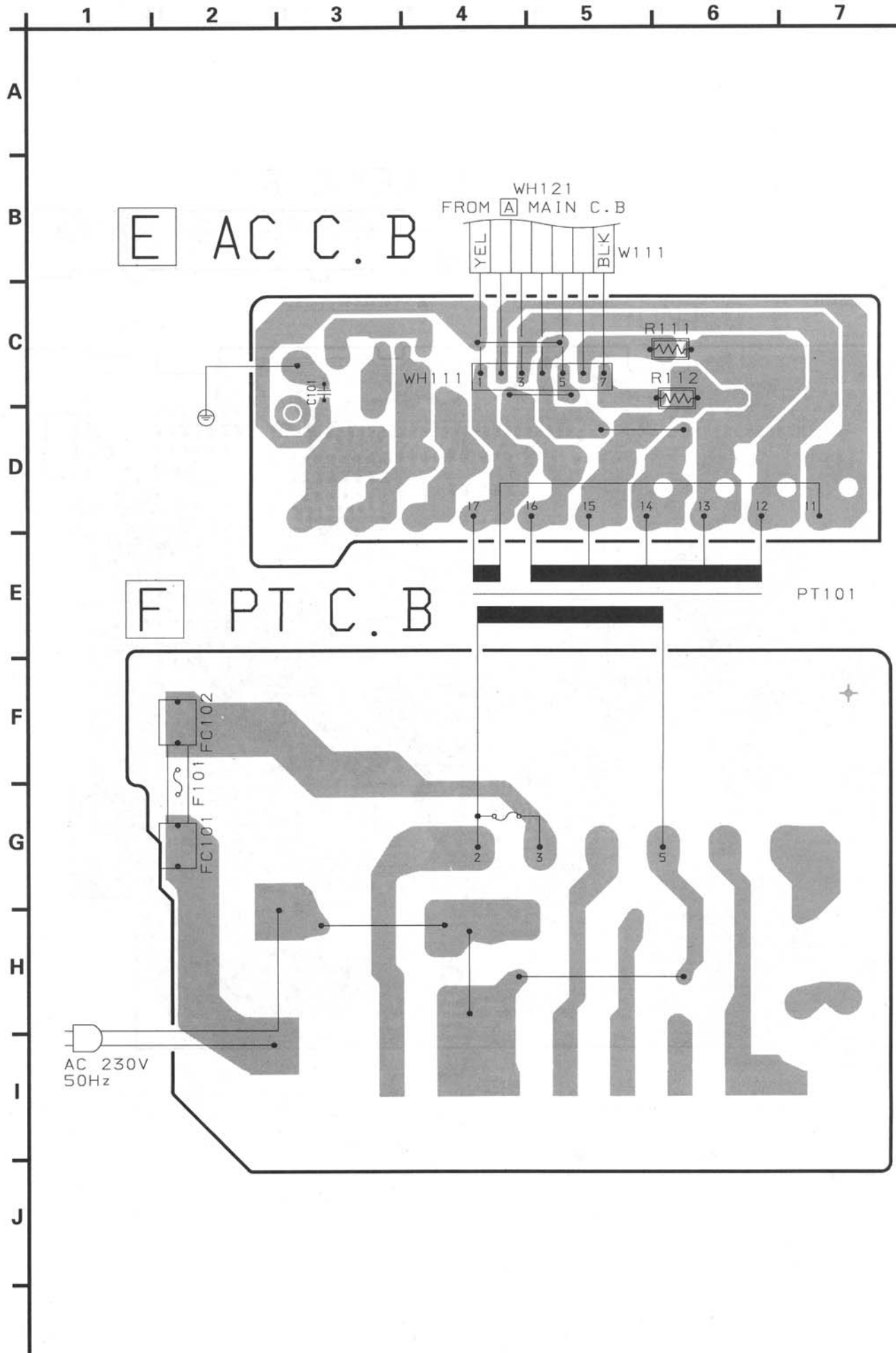
D KEY C.B



FROM FRONT C.B. CON501
1 - RED
2 - BLK
CON502
FRONT SURROUND
S307 S306 S305
HALL LIVE DISCO

ELECTRONIC GRAPHIC EQUALIZER
S320 JAZZ
S321 POP
S304 ROCK
S318 1-BASS
S317 KARAOKE

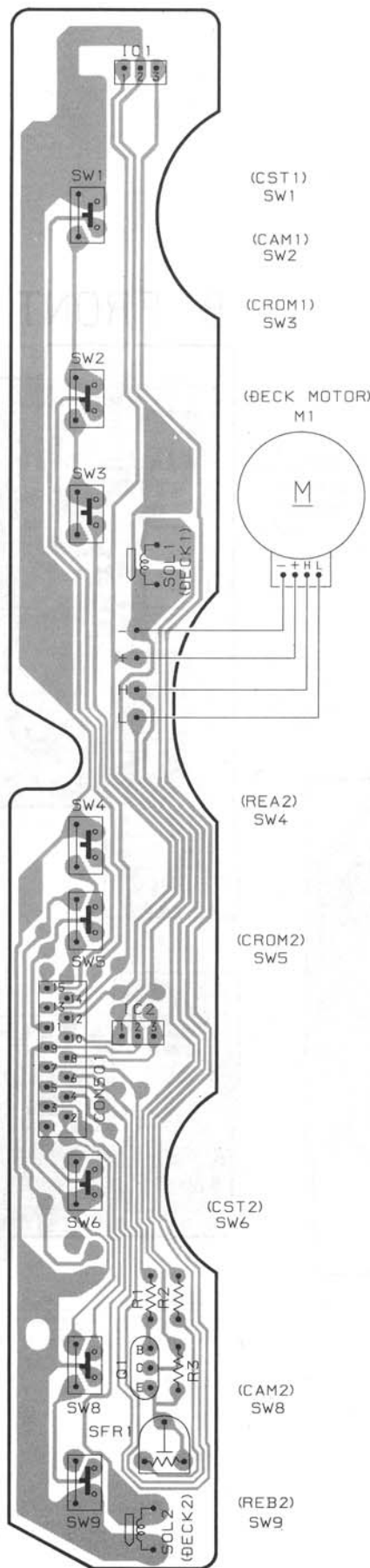




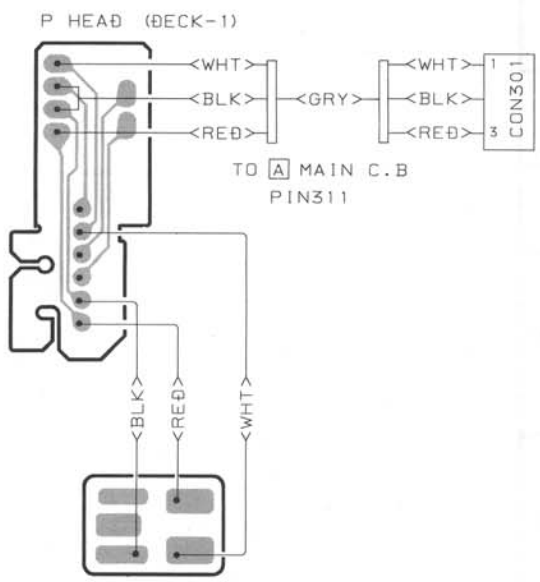
1 | 2 | 3 | 4 | 5 | 6 | 7

A
B
C
D
E
F
G
H
I
J

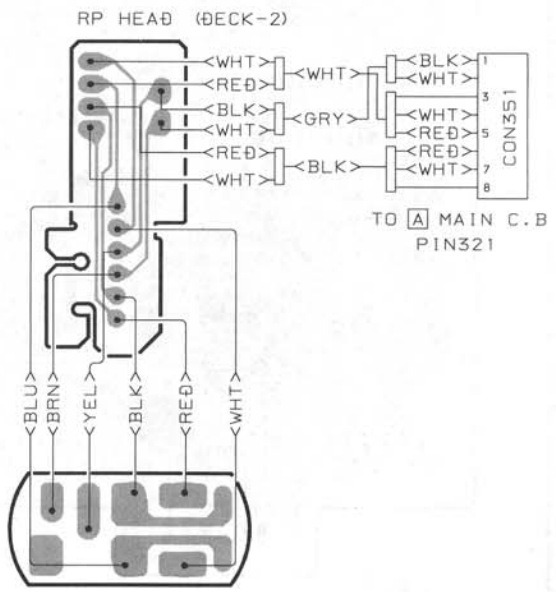
G DECK C.B.



H HEAD-1 C.B.



I HEAD-2 C.B.



IC DESCRIPTION

IC, μ PD78045HGF-014

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-DISH FWD	O	3 disc table slet rotation output.		
15	O-DISH RVS	O	3 disc table slet rotation output.		
16	$\overline{\text{I-HOLD}}$	I	Power failure detected input. (Low when Hold)		
17	$\overline{\text{RESET}}$	I	System reset input.		
18	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON/OFF}}$ output.		
19	O-MUTE	O	System mute $\overline{\text{ON/OFF}}$ output.		
20	AVSS	-	GND.		
21	I-SPEANA	I	Level input.		
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	$\overline{\text{O-C-SHIFT}}$	O	Micro clock shift output.		
			LC oscillator, "L" clock shift.		
			SW	SHIFT FREQUENCY	REQUIRED STEP
				8.337 ~ 8.423 MHz	
				12.506 ~ 12.634 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					
37	O-CD LED	O	CD flash window LED $\overline{\text{ON/OFF}}$ output.		
38	O-PLL-CE	O	PLL IC chip enable output.		
39	O-DATA	O	Main and front PLL shift register data output.		

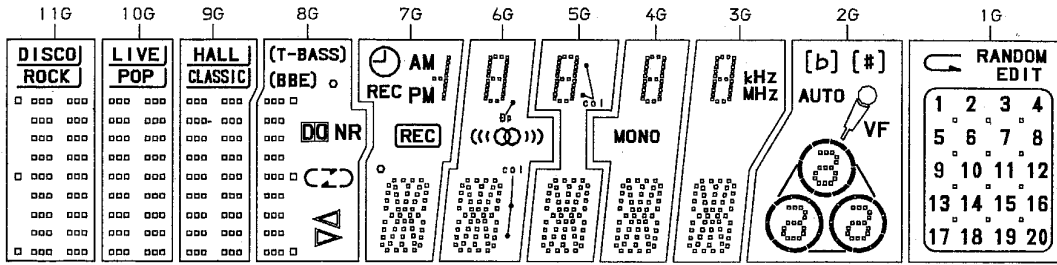
Pin No.	Pin Name	I/O	Description
40	O-CLK	O	Main and front PLL shift register clock output.
41	O-FSTB	O	Front shift register data latch strobe output.
42	O-MSTB	O	Main shift register data latch strobe output.
43	$\overline{\text{O-KSCAN}}$	O	Segment input permitted output.
44	NC	-	NC.
45	$\overline{\text{I-TUNE/IFT}}$	I	SD detected input or serial data input of IF count to and from Tuner.
46	$\overline{\text{I-SENS ST}}$	I	Stereo detected input to and from Tuner. (Active low)
47	$\overline{\text{I-RMC}}$	I	System remote controller input. (Active low)
48	IC	-	Internal connection. (connected to GND)
49	$\overline{\text{O-SOL2}}$	O	DECK 2 solenoid $\overline{\text{ON/OFF}}$ output.
50	$\overline{\text{O-SOL1}}$	O	DECK 1 solenoid $\overline{\text{ON/OFF}}$ output.
51	$\overline{\text{O-MOTOR}}$	O	DECK motor $\overline{\text{ON/OFF}}$ output.
52	VDD	-	Power supply terminal. (+5V)
53	P1/ $\overline{\text{SCTI}}$	O	FL segment output. (P1, DECK 1 cassette detection switch input)
54	P2/ $\overline{\text{CAM1}}$	O	FL segment output. (P2, DECK 1 cam switch input)
55	P3/AUTO1	O	FL segment output. (P3, DECK 1 auto stop input)
56	P4/AUTO2	O	FL segment output. (P4, DECK 2 auto stop input)
57	P5/ $\overline{\text{CAM2}}$	O	FL segment output. (P5, DECK 2 cam switch input)
58	P6/ $\overline{\text{REB}}$	O	FL segment output. (P6, DECK 2 B side recording permission switch input)
59	P7/ $\overline{\text{CST2}}$	O	FL segment output. (P7, DECK 2 cassette detection switch input)
60	P8/ $\overline{\text{REA}}$	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/ $\overline{\text{NTSC/PAL}}$	O	FL segment output. (P11, NTSC initial diode input)
64	P12/ $\overline{\text{KEYCON}}$	O	FL segment output. (P12, Key con diode input)
65	P13/ $\overline{\text{DOLBY}}$	O	FL segment output. (P13, Dolby diode input)
66	P14/ $\overline{\text{DSP}}$	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)

IC, LC72131D

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

FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ478GK GRID ASSIGNMENT

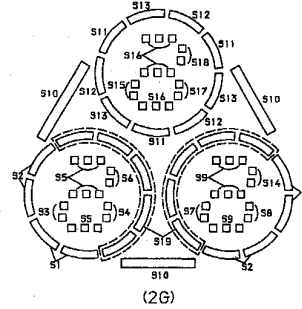


SEGMENT DESIGNATION

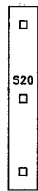
B9	○	○	○	○	B18	B9	○	○
B8	○	○	○	○	B17	B8	○	○
B7	○	○	○	○	B16	B7	○	○
B6	○	○	○	○	B15	B6	○	○
B5	○	○	○	○	B14	B5	○	○
B4	○	○	○	○	B13	B4	○	○
B3	○	○	○	○	B12	B3	○	○
B2	○	○	○	○	B11	B2	○	○
B1	○	○	○	○	B10	B1	○	○

(11G ~ 9G)

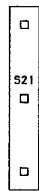
(8G)



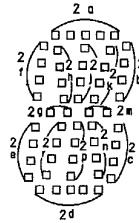
(2G)



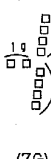
(11G)



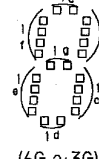
(8G)



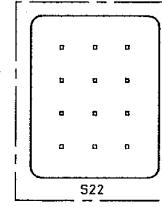
(7G ~ 3G)



(7G)



(6G ~ 3G)



(1G)

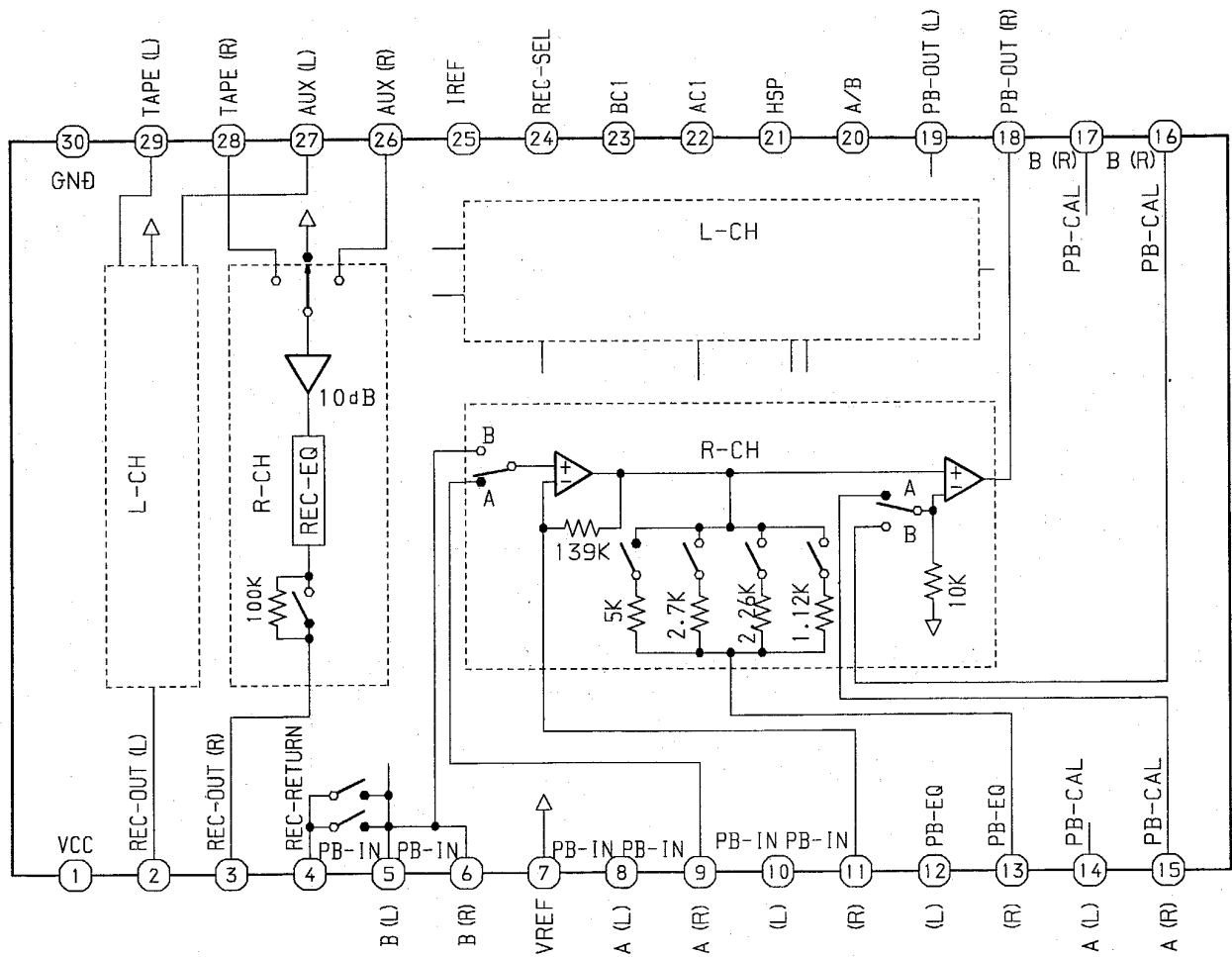
ANODE CONNECTION

	11G	10G	9G	8G	7G
P1	B1	B1	B1	B1	2a
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	◐	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	DQ NR	2h
P13	B7	B7	B7	B7	2o
P14	B16	B16	B16	○	○
P15	B8	B8	B8	B8	—
P16	B17	B17	B17	BBE (REC)	(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)	—	1g
P22	(DISCO)	(HALL)	(HALL)	—	1b, 1c
P23	—	—	—	—	—
P24	S20	—	—	S21	—
P25	—	—	—	—	—

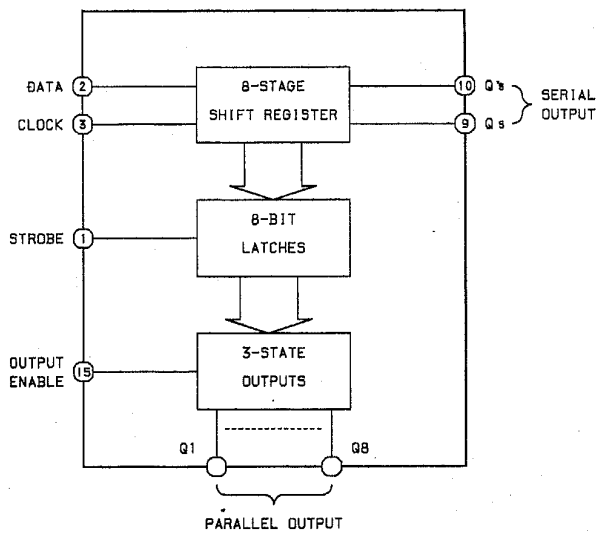
	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	S1	20
P2	2n	2n	2n	2n	S2	19
P3	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S3	18
P4	2r	2r	2r	2r	S4	17
P5	2e	2e	2e	2e	S5	16
P6	2c	2c	2c	2c	S6	15
P7	2g	2g	2g	2g	S7	14
P8	2m	2m	2m	2m	S8	13
P9	2f	2f	2f	2f	S9	12
P10	2b	2b	2b	2b	S10	11
P11	2k	2k	2k	2k	S11	10
P12	2h	2h	2h	2h	S12	9
P13	2a	2a	2a	2a	S13	8
P14	col	col (UPPER)	—	—	S14	7
P15	((((()))	col (BELOW)	—	MHz	S15	6
P16	Δp	—	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 #	—

IC BLOCK DIAGRAM - 2

IC, HA12185NT



IC, BU4094BC/BCF



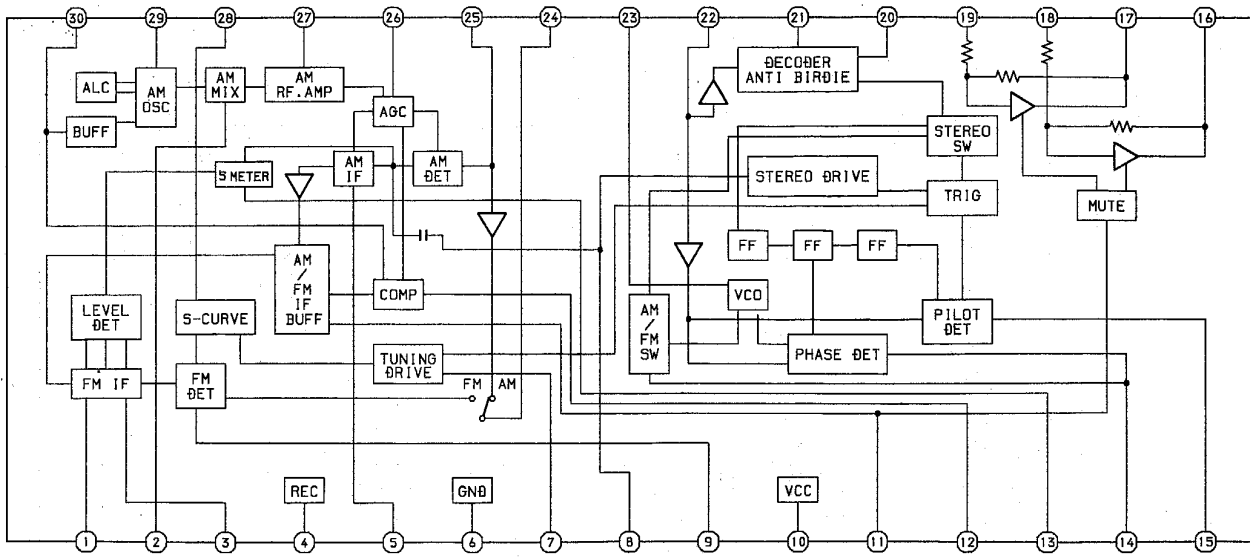
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
\uparrow	L	X	X	Z	Z	Q7	NO Chg.
\downarrow	L	X	X	Z	Z	No Chg.	Qs
\uparrow	H	L	X	No Chg.	No Chg.	Q7	No Chg.
\uparrow	H	H	L	L	Qn-1	Q7	No Chg.
\uparrow	H	H	H	H	Qn-1	Q7	No Chg.
\downarrow	H	X	X	No Chg.	No Chg.	No Chg.	Qs

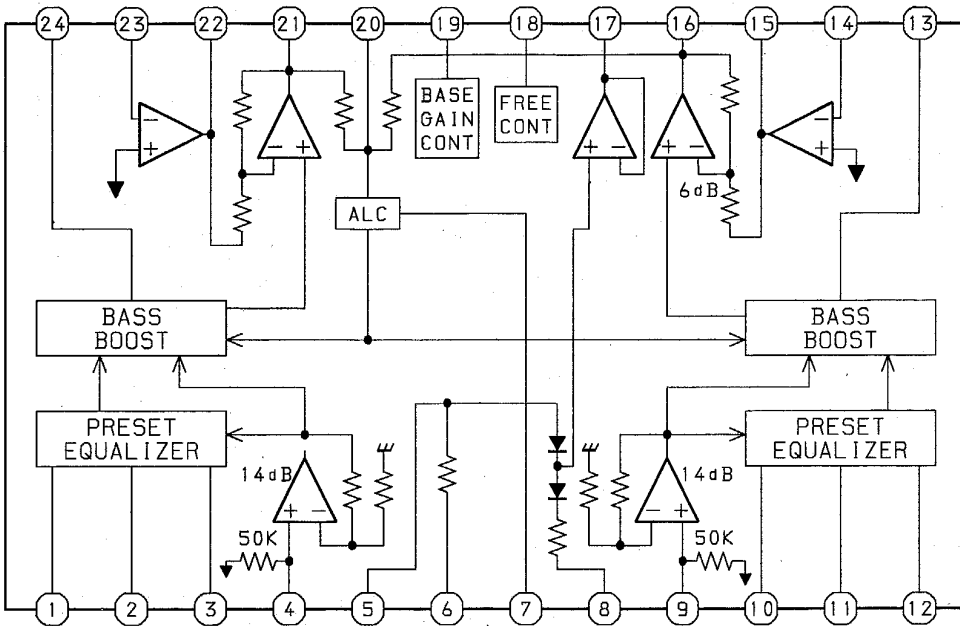
Z=High Impedance

X=Don't Care

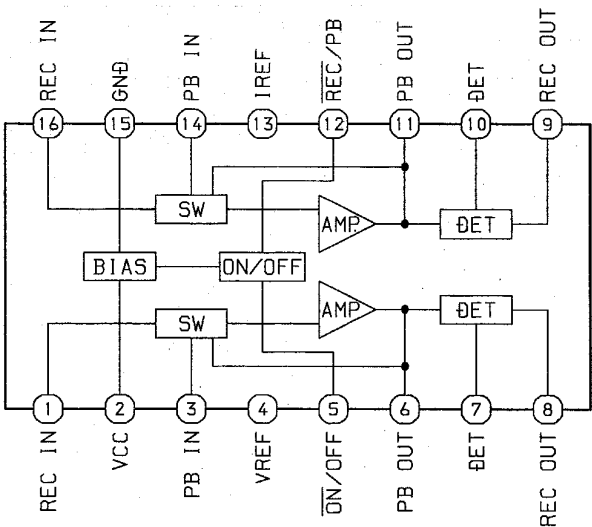
IC, LA1836L



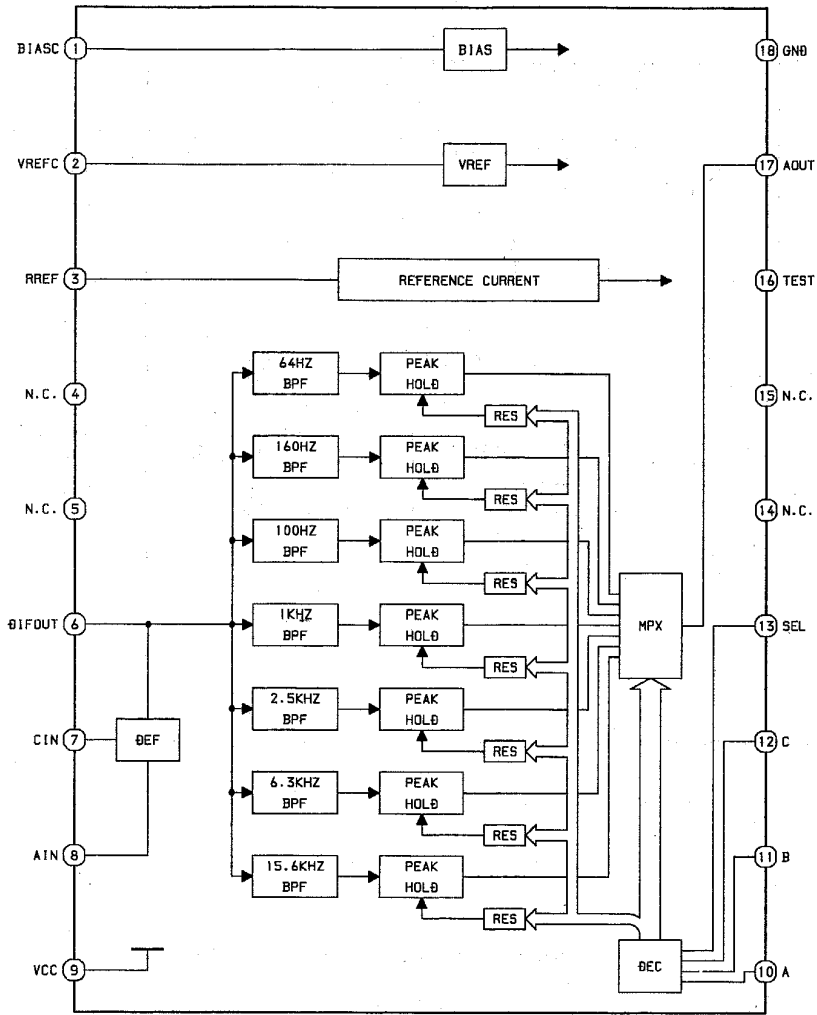
IC, BA3842F



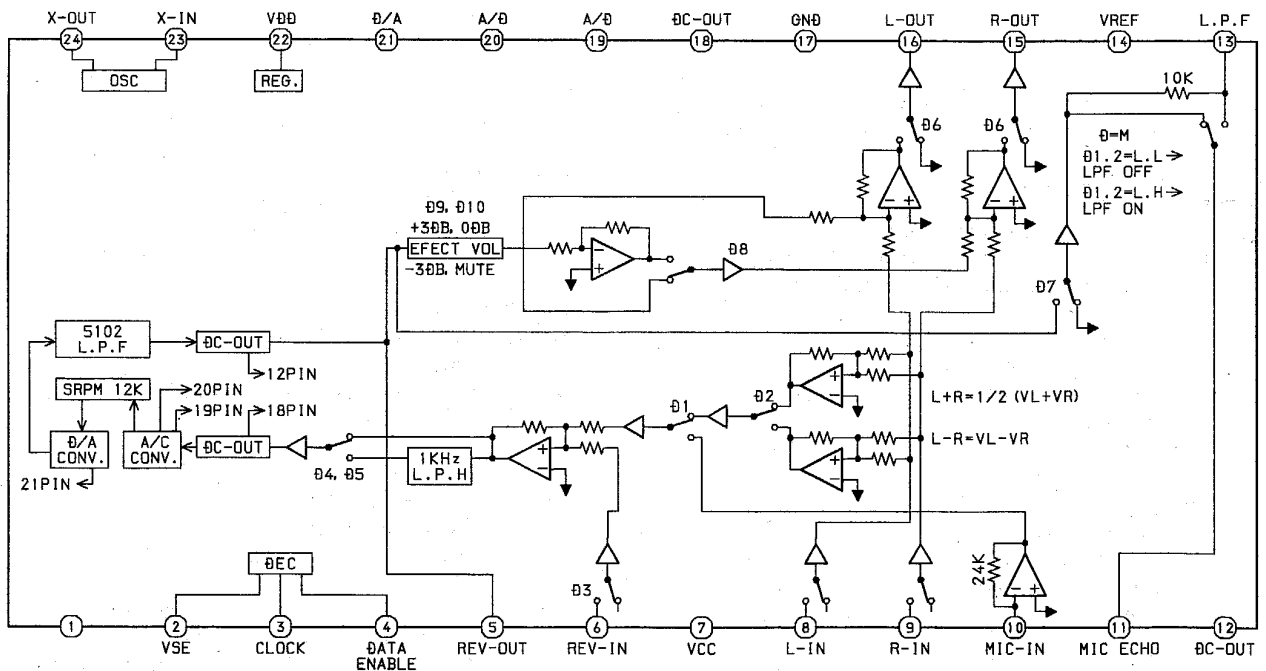
IC, HA12134A



IC, BA3834S

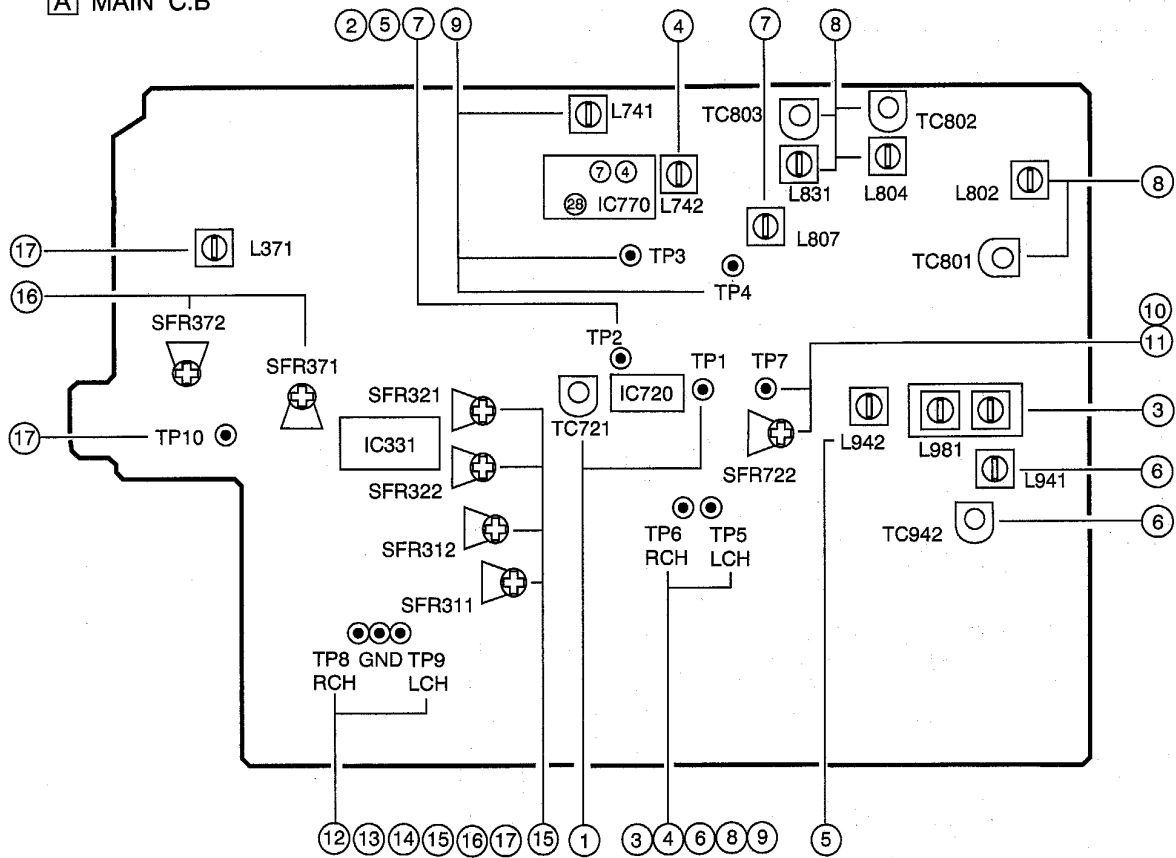


IC, LV1100

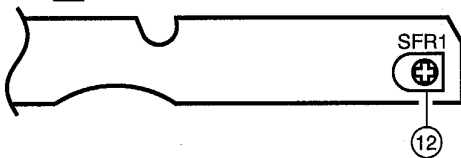


ELECTRICAL ADJUSTMENT <TUNER / DECK>

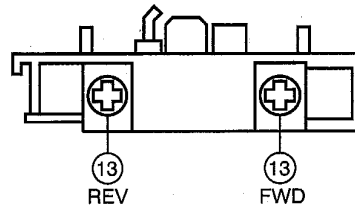
A MAIN C.B



G DECK C.B



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 1602kHz and adjust TC721 so that the test point becomes 2052kHz \pm 0.01kHz.
2. MW VT Check
 Settings : • Test point : TP2 (VT)
 Method : Set to MW 1602kHz and check that the test point is 6.8V \pm 1.0V.
3. MW Tracking Adjustment
 Settings : • Test point : TP-5, TP-6
 • Adjustment location :
 L981 999kHz
 Method : The level at 999kHz is adjusted to MAX by L981.
4. AM IF Adjustment
 Settings : • Test point : TP-5, TP-6
 • Adjustment location : L742
 L942 450kHz
5. LW VT Adjustment
 Settings : • Test point : TP2 (VT)
 • Adjustment location : L942
 Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V \pm 0.05V.
6. LW Tracking Adjustment
 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.

7. 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.

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

9. 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%.

10. 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.

11. Auto Stop Level Check
 MW
 Settings : • Test point : TP7
 • Input level : Variable
 Method : Set to MW 999kHz and check that the test point is $58 \text{ dB} \pm 10 \text{ dB}$.

FM
 Settings : • Test point : TP7
 • Input level : Variable
 Method : Set to FM 98.0MHz and check that the test point is $20 \text{ dB} \pm 5 \text{ dB}$.

< DECK SECTION >

12. 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 $3000\text{Hz} \pm 5\text{Hz}$.

13. 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.

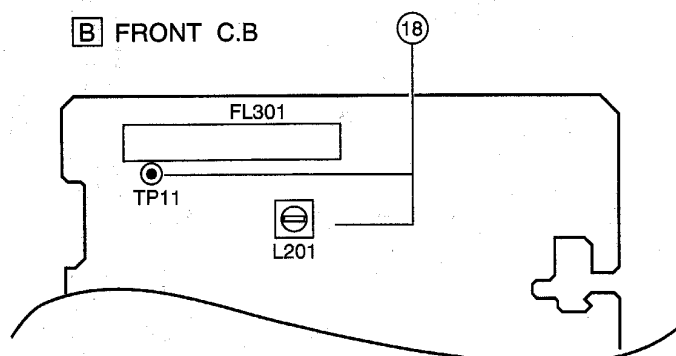
14. PB Frequency Response Check (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300
 • Test point : TP8, TP9
 Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is $\pm 2\text{dB}$.

15. 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.

16. 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 $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

17. 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 $85\text{kHz} \pm 0.1\text{kHz}$.

< FRONT SECTION >



18. μ -CON CLOCK Adjustment
 Settings : • Function : CD
 • Test point : TP11(IC201 PIN41)
 • Adjustment location : L201
 Method : Adjust L201 so that the test point becomes $328.1 \text{ Hz} \pm 0.4 \text{ Hz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : 8dB \pm 6dB
(THD 3%) [at 87.5MHz]
7dB \pm 6dB
[at 98.0 / 108.0MHz]

S/N 46dB

Quieting sensitivity : 34dB \pm 5dB
[at 87.5 / 98.0 / 108.0MHz]

Signal to noise ratio : (STEREO) More than 59dB
(MONO) More than 65dB
[at 98.0MHz]

Distortion : (STEREO) Less than 2.0%
(MONO) 1.3%
[at 98.0MHz]

Auto stop level : 22dB \pm 10dB [at 98.0MHz]

Stereo separation : More than 20dB
[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

<LW SECTION>

Sensitivity : 68dB \pm 5dB (144kHz)
(S/N 20dB) 65dB \pm 5dB (198kHz)
65dB \pm 5dB (290kHz)

Distortion : Less than 1.5% (198kHz)

Intermediate frequency : 450kHz

<DECK SECTION>

Tape speed : 3000Hz \pm 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 \pm 3dB
(SP OUT 2V)

REC/PB output level : 1.6V \pm 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
(CrO₂, SP OUT 2V, DOLBY OFF)

Noise level (REC/PB) : Less than 25mV/12mV
(NORM, DOLBY OFF / WTD)
Less than 18mV/10mV
(CrO₂, DOLBY OFF / WTD)

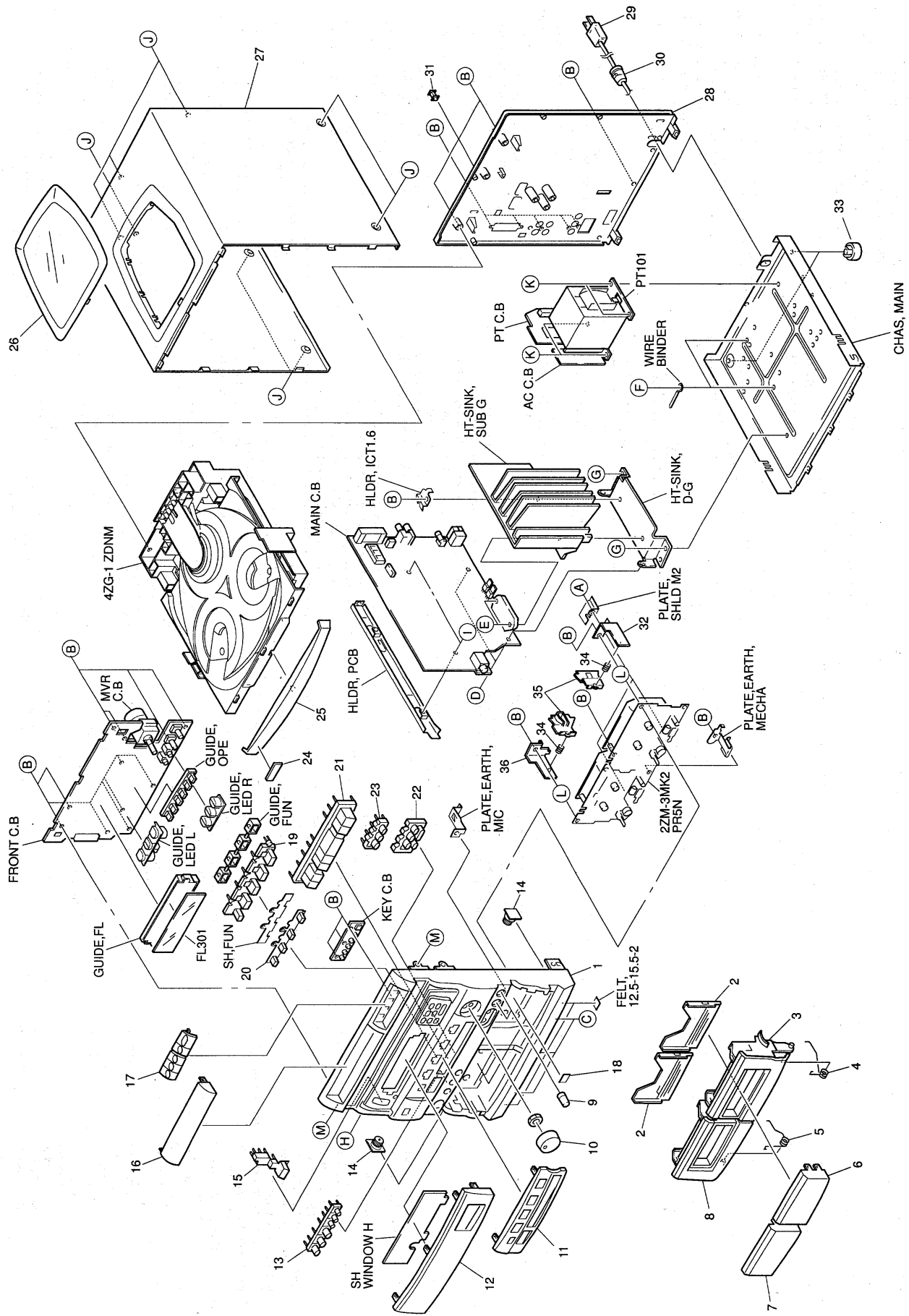
Crosstalk : More than 55dB
(1kHz, 0VU)

Channel separation : More than 40dB
(1kHz, 0VU)

Erasing ratio : More than 60dB
(at 125Hz)

Test tape : TTA-602 (NORMAL)
TTA-610 (CrO₂)

MECHANICAL EXPLODED VIEW 1/1

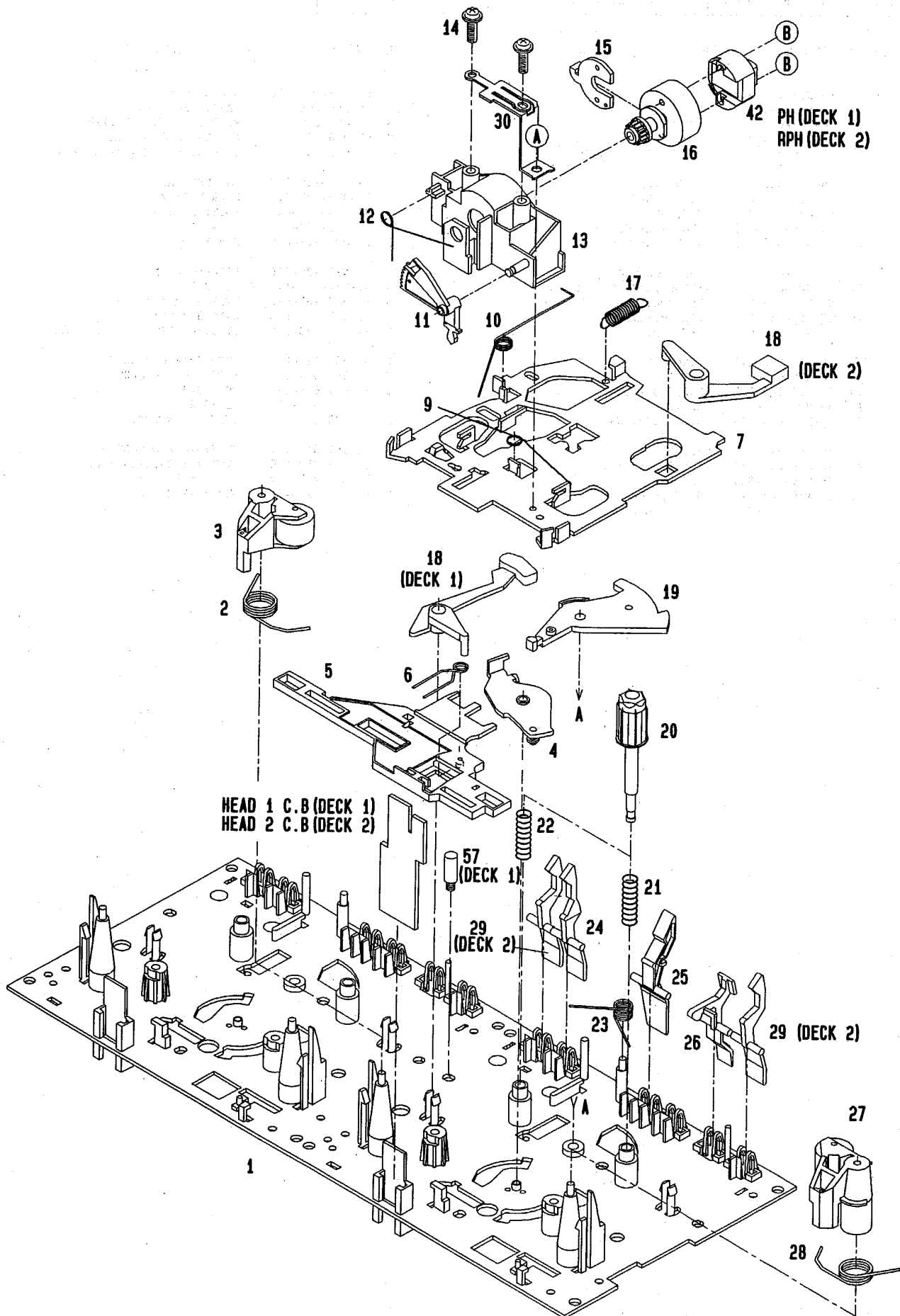


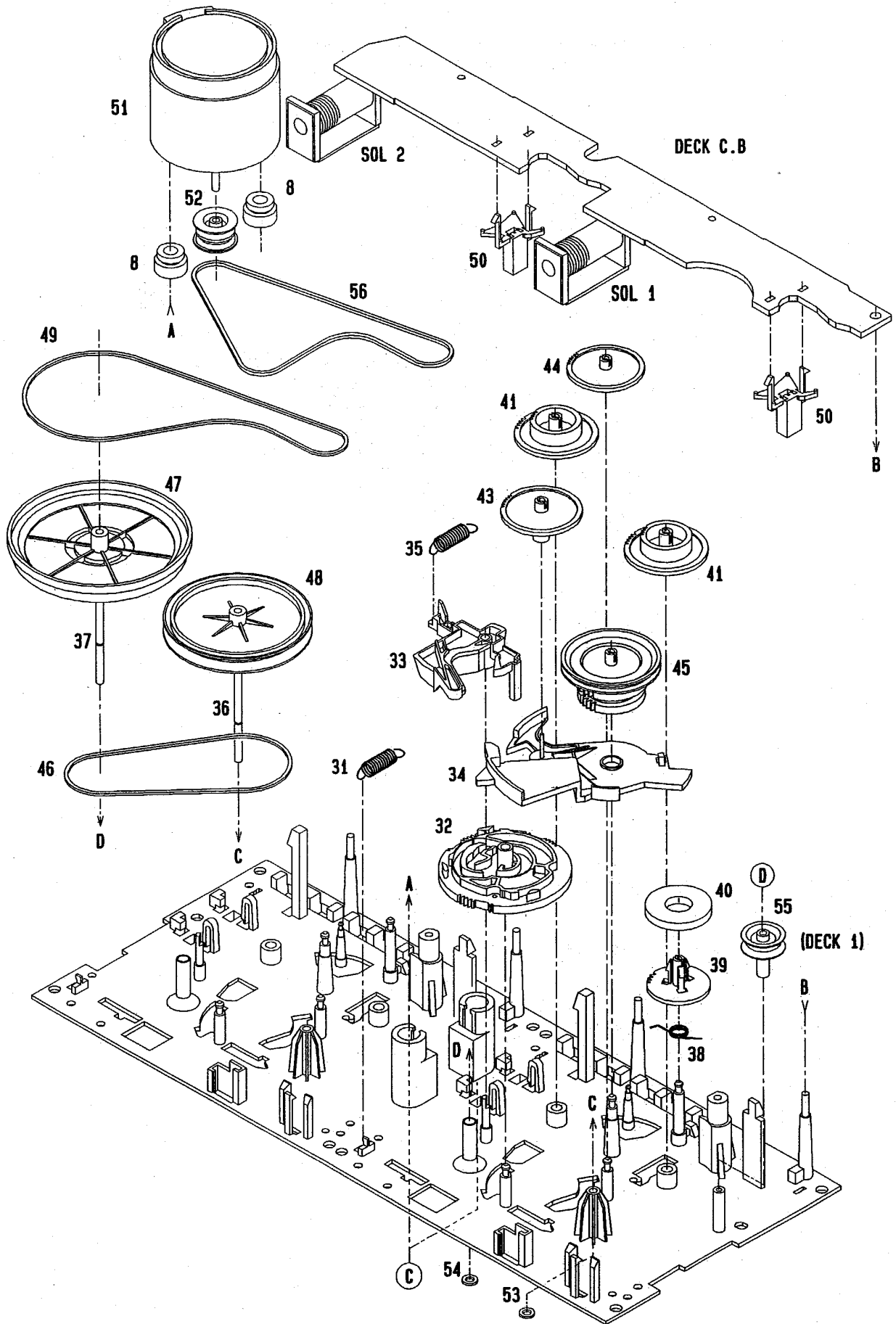
MECHANICAL PARTS LIST 1/1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF6-082-010		CABI,FR E V770	26	86-NF6-007-010		WINDOW, TOP
2	86-NF6-061-010		REFLECTOR, CASS	27	86-NF6-058-010		CABI, STEEL H-G
3	86-NF6-047-010		BOX, CASS 2E	28	86-NF6-095-010		PANEL, REAR EZBNE V770
4	82-NF5-219-010		SPR-T, EJECT 2(SIN)	△ 29	87-050-079-010		AC CORD ASSY, E BLK
5	82-NF5-218-010		SPR-T, EJECT 1(SIN)	30	87-085-185-010		BUSHING, AC CORD(E) CM-22B
6	86-NF6-020-010		WINDOW, CASS 2	31	84-ZG1-245-110		CAP, OPTICAL
7	86-NF6-019-010		WINDOW, CASS 1	32	82-NF5-227-010		HLDR, LOCK 2N
8	86-NF6-046-010		BOX, CASS 1E	33	87-085-221-010		FOOT, H 13.5
9	86-NF6-050-010		KNOB, RTRY MIC M	34	82-NF5-228-010		SPR-C, LOCK
10	86-NF6-063-010		KNOB, RTRY VOL	35	82-NF5-229-010		PLATE, LOCK
11	86-NF6-006-010		PANEL, CONTROL	36	82-NF5-226-010		HLDR, LOCK 1N
12	86-NF6-079-010		WINDOW, DISP E V770	A	87-571-032-410		VIT+2-3
13	86-NF6-013-010		KEY, DOLBY	B	87-067-703-010		BVT2+3-10 W/O SLOT
14	87-063-165-010		OIL-DMPR, 150	C	87-067-673-010		BVTT+3-8 BLK
15	86-NF6-009-010		KEY, POWER	D	87-067-633-010		BVT2+3-8 W/O SLOT W/CONVEX
16	86-NF6-018-010		WINDOW, CD	E	87-067-698-010		BVT2+3-18 W/O SLOT
17	86-NF6-015-010		KEY, CD	F	87-067-584-010		BVT2+3-6 W/O SLOT
18	81-532-080-010		LBL, CASS-COMPT	G	87-067-689-010		BVTT+3-8
19	86-NF6-011-010		KEY, FUN	H	87-591-094-410		QIT+3-6
20	86-NF6-016-010		REFLECTOR, FUN	I	87-078-084-010		BVTT+3-6 W/CONVEX
21	86-NF6-012-010		KEY, OPE	J	87-067-641-010		UTT2+3-8 W/O SLOT BLK
22	86-NF6-098-010		KEY, T-BASS HIGH	K	87-078-083-010		BVTT+4-8 SWCH16A SEMS
23	86-NF6-014-010		KEY, DSP	L	82-NE8-215-010		W, 4.2-6.8-0.18
24	82-NE6-067-010		BADGE, AIWA 30N	M	87-721-097-410		QT2+3-12 W/O SLOT
25	86-NF6-051-010		PANEL, TRAY U				

TAPE MECHANISM EXPLODED VIEW 1/1



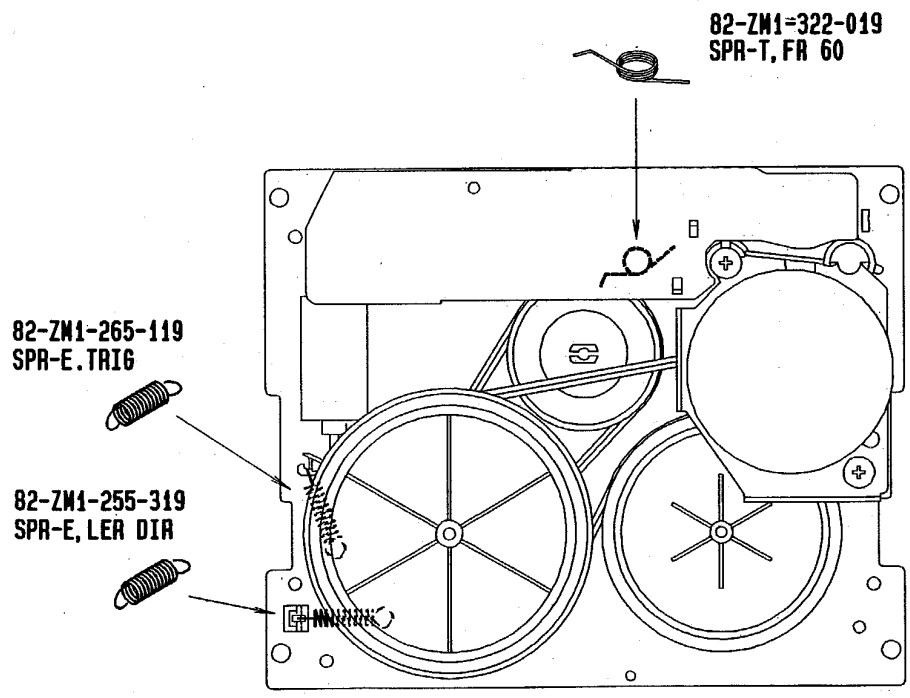
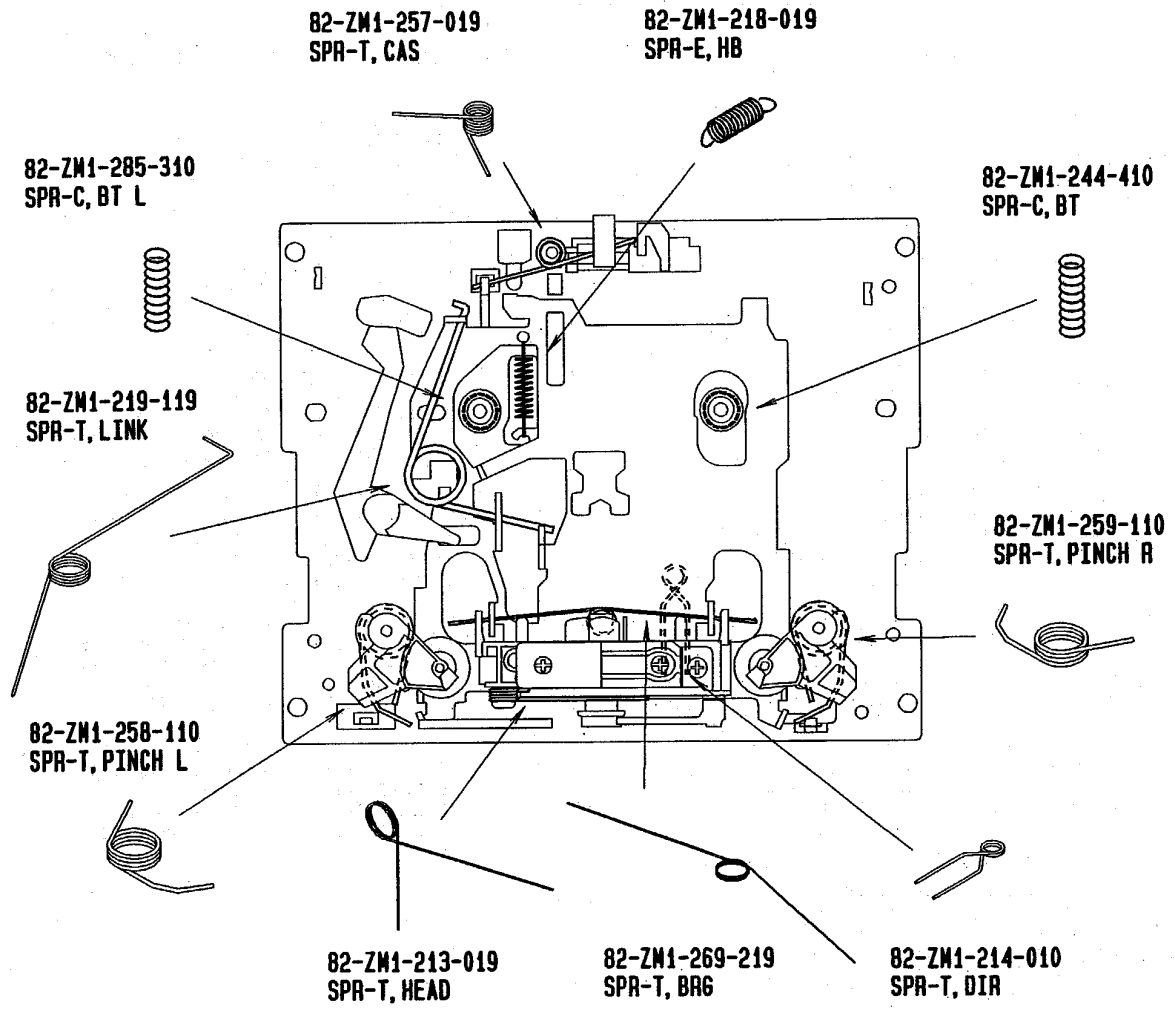


TAPE MECHANISM PARTS LIST 1/1

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

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

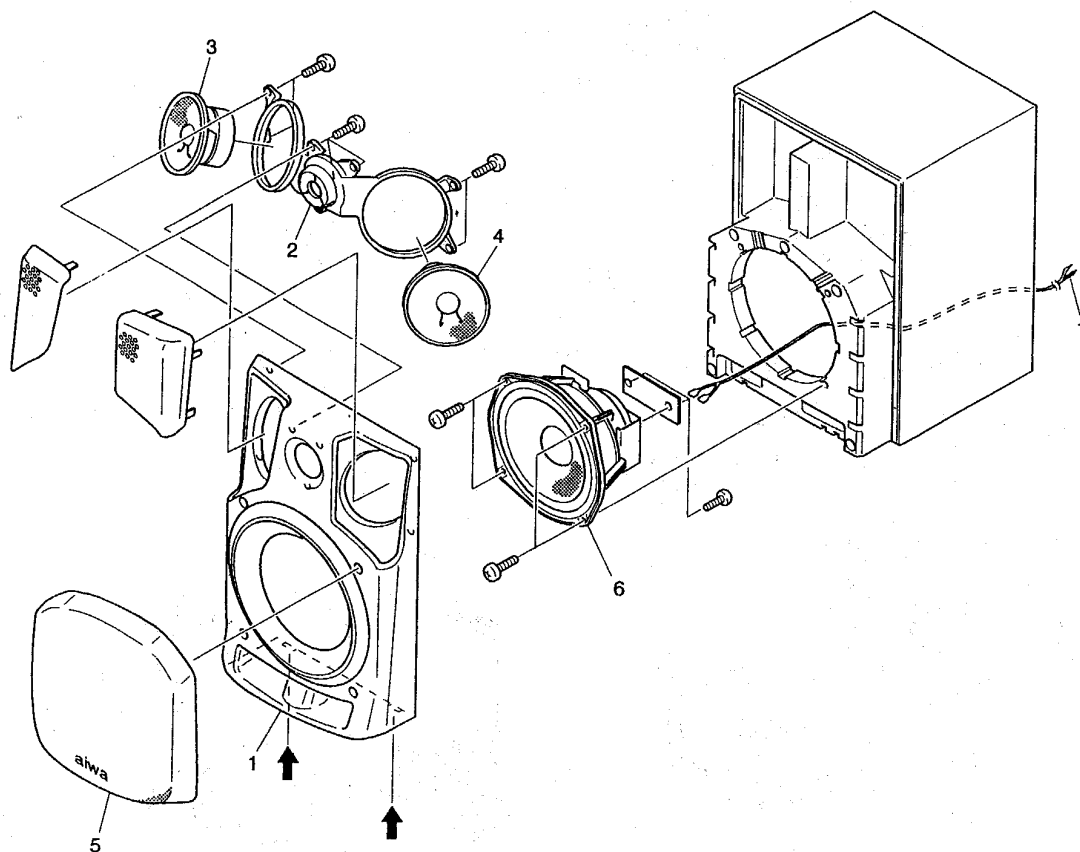
SPRING APPLICATION POSITION



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 PARTS LIST 1/1 (SX-FNV700)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS5-001-019		PANEL FR
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	85-NS6-611-019		SPEAKER CORD Y/B

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-NF6-917-018		IB,E(EGFSI)NE 770
2	85-NF7-641-019		RC,RC-T503
3	87-006-225-019		ANT,LOOP ANT NC2
4	87-043-106-019		ANT,FM 1007AWG

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

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