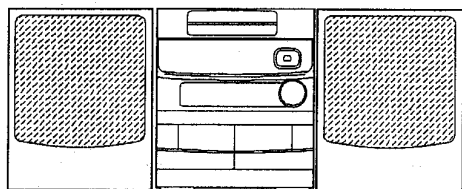


aiwa



NSX-AV40



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR1N
- BASIC CD MECHANISM : 3ZG-3 YA3N
- TYPE : EZ

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AV40	CX-NAV40 (TYPE : EZ)	SX-NAV70 SX-CR423	RC UNIT,6AS17

MANUAL
SERVICE

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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 144 kHz ~ 290 kHz
Usable sensitivity 1400 μ V/m
Antenna Loop antenna

<Amplifier section>

Power output

Front
 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

Surround (Rear)
 Rated: 10 W + 10 W
 (16 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
 Reference: 13 W + 13 W
 (16 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
 DIN MUSIC POWER
 20 W + 20 W

Center
 Rated: 20 W
 (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
 Reference: 26 W
 (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
 DIN MUSIC POWER
 40 W

Total Harmonic distortion 0.05% (15 W, 1 kHz, 6 ohms, DIN AUDIO)

Inputs VIDEO/AUX: 150mV
 MIC 1, MIC 2: 1.7 mV

Outputs SUPER WOOFER: 1.2 V
 SPEAKERS: accept speakers of 6 ohms or more
 SURROUND SPEAKERS: accept speakers of 16 ohms or more
 CENTER SPEAKERS: accept speakers of 8 ohms or more
 PHONES (stereo jack): accepts headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape: 50 Hz - 16000 Hz
 Normal tape: 50 Hz - 15000 Hz
 47 dB (CrO₂ tape peak level)
Signal-to-noise ratio AC bias
Recording system Deck 1: Playback head x 1
 Deck 2: Recording/playback/erase head x 1
Heads

<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-NAV70>


Cabinet type 3 way, bass reflex (magnetic shielded type)
Speakers Woofer: 140 mm cone type
 Tweeter: 60mm cone type
 Super tweeter: 20 mm ceramic type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 235 x 302 x 250 mm
Weight 3.1 kg

<General>

Power requirements 230 V AC, 50 Hz
Power consumption 330 W
Dimensions of main unit (W x H x D) 260 x 306 x 345 mm
Weight of main unit 7.8 kg

• Design and specifications are subject to change without notice.

• Manufactured under license from Dolby Laboratories Licensing Corporation.

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

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-NES-901-010	IB, E (EGFSI)M	
1	86-NES-902-010	IB, E (EGFSI)NE	
2	86-NES-701-010	RC UNIT, 6AS17	
3	87-006-225-010	ANT, LOOP ANT NC2	
4	87-043-106-010	ANT, FM 1007AWG	

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 käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

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

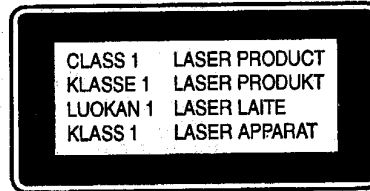
ATTENTION

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

ADVASELI!

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.

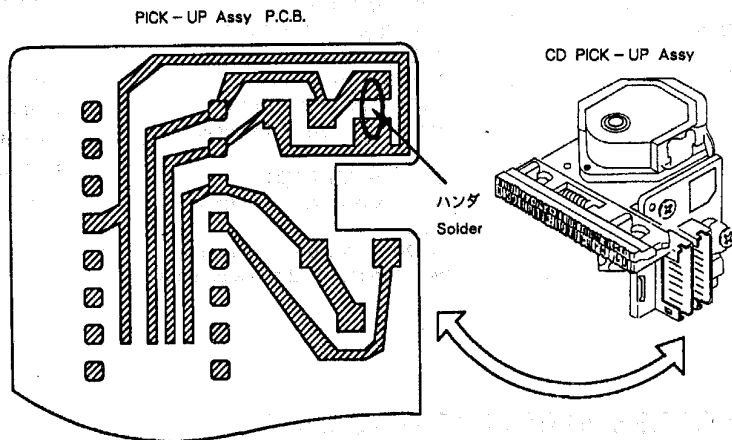


Precaution to replace Optical block

(KSS - 212A)

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					87-001-290-080		ZENER, HZS6B1L
	87-027-666-019		IC, TC4052BP				
	87-A20-101-019		IC, STK405-070A	MAIN C.B			
	87-017-374-019		IC, TC4094BP				
	87-070-121-010		IC, HA12185NT	BPF831	87-030-105-019		FLTR, BPMB6A
	87-070-336-010		IC, TC9284BF	C131	87-010-403-089		CAP, E 3.3-50 SME
				C141	87-010-384-089		CAP, E 100-25 SME
	87-002-407-010		IC, TA8191F	C142	87-010-384-089		CAP, E 100-25 SME
	87-A20-107-019		IC, BA3836	C143	87-010-764-089		CAP, E 47-63V
	87-017-888-089		IC, NJM4558MD				
	87-A20-069-049		C-IC, BA3842F	C144	87-010-196-089		C-CAP, S 0.1-25 F
	87-070-127-119		IC, LC72131D	C145	87-010-196-089		C-CAP, S 0.1-25 F
				C146	87-010-390-019		CAP, E 3300-25 SME
	87-017-714-119		IC, LA1836L	C151	87-012-368-089		C-CAP, S 0.1-50F
	87-020-454-010		IC, DN6851	C152	87-012-368-089		C-CAP, S 0.1-50F
	87-001-982-019		IC, TA7291S				
	87-002-727-019		IC, NJM4558L	C153	87-016-474-099		CAP, E 3300-50
	87-070-305-019		IC, BA6897S	C154	87-016-474-099		CAP, E 3300-50
				C161	87-010-401-089		CAP, E 1-50 SME
	87-017-825-010		IC, GP1F32T	C172	87-012-140-089		C-CAP, S 470P-50 CH
	87-070-083-019		IC, GP1U281X	C173	87-010-405-089		CAP, E 10-50 SME
	87-017-375-089		IC, TC4094BF				
	86-NES-601-010		C-IC, UPD78044HGF-023-3B9	C181	87-010-101-089		CAP, E 220-16 SME
	87-A20-082-010		C-IC, NJW1102AFG1	C182	87-010-381-089		CAP, E 330-16 SME
				C197	87-010-196-089		C-CAP, S 0.1-25 F
	87-070-267-010		IC, STK405-050	C198	87-010-196-089		C-CAP, S 0.1-25 F
	87-A20-067-040		C-IC, M65849FP	C200	87-010-196-089		C-CAP, S 0.1-25 F
				C201	87-010-404-089		CAP, E 4.7-50 SME
				C202	87-010-404-089		CAP, E 4.7-50 SME
TRANSISTOR				C203	87-010-177-089		C-CAP, S 820P-50 SL
	87-026-610-089		TR, KTC3198GR	C204	87-010-177-089		C-CAP, S 820P-50 SL
	89-327-125-089		C-TR, 2SC2712GR	C205	87-010-182-089		C-CAP, S 2200P-50 B
	89-111-625-089		C-TR, 2SA1162GR				
	87-026-609-089		TR, KTA1266GR	C206	87-010-182-089		C-CAP, S 2200P-50 B
	89-213-702-019		TR 2SB1370E	C207	87-010-402-089		CAP, E 2.2-50 SME
				C208	87-010-402-089		CAP, E 2.2-50 SME
	89-332-665-089		TR, 2SC3266GR	C209	87-010-402-089		CAP, E 2.2-50 SME
	89-406-555-089		TR, 2SD655E	C210	87-010-402-089		CAP, E 2.2-50 SME
	89-502-466-089		TR, FET 2SK246-BL (TPE2)				
	87-026-286-089		TR, DTA143ES	C211	87-010-318-089		C-CAP, S 47P-50 CH
	87-026-463-089		TR, 2SA933S (RS)	C212	87-010-318-089		C-CAP, S 47P-50 CH
				C213	87-010-147-089		C-CAP, S 3P-50 CH
	89-333-317-089		TR, 2SC3331T	C214	87-010-147-089		C-CAP, S 3P-50 CH
	87-026-486-089		TR, DTA144TS	C215	87-010-196-089		C-CAP, S 0.1-25 F
	89-109-521-089		TR, 2SA952K				
	89-112-965-089		TR, 2SA1296GR	C216	87-010-196-089		C-CAP, S 0.1-25 F
	87-026-219-089		TR, DTA144ES	C217	87-010-196-089		C-CAP, S 0.1-25 F
				C218	87-010-196-089		C-CAP, S 0.1-25 F
	89-327-143-089		C-TR, 2SC2714 (O)	C219	87-010-198-089		C-CAP, S 0.022-25 B
	87-026-269-089		TR, DTA114ES	C220	87-010-198-089		C-CAP, S 0.022-25 B
	89-503-602-089		C-FET, 2SK360E				
	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)	C223	87-010-178-089		C-CAP, S 1000P-50 B
				C224	87-010-178-089		C-CAP, S 1000P-50 B
	87-026-462-089		TR, 2SC1740SRS	C230	87-018-209-089		CAP, TC-U 0.1-50F
	89-320-011-089		TR, 2SC2001K	C261	87-010-197-089		C-CAP, S 0.01-25 B
	89-113-187-889		TR, 2SA1318TU				
	87-026-228-089		C-TR, DTA124EK	C262	87-010-197-089		C-CAP, S 0.01-25 B
	87-026-238-089		C-TR, DTC144WK	C263	87-010-197-089		C-CAP, S 0.01-25 B
				C264	87-010-197-089		C-CAP, S 0.01-25 B
	89-333-266-080		C-TR, 2SC3326B	C301	87-010-197-089		C-CAP, S 0.01-25 B
	87-026-230-010		C-TR, DTA114YK	C311	87-012-155-089		C-CAP, S 180P-50 CH
	87-026-210-010		C-TR, DTC144EK				
				C312	87-012-155-089		C-CAP, S 180P-50 CH
				C313	87-010-180-089		C-CAP, S 1800P-50 B
DIODE				C314	87-010-180-089		C-CAP, S 1800P-50 B
	87-020-027-089		C-DIODE, 1SS184	C321	87-012-145-089		C-CAP S 270P-50CH
	87-020-125-089		C-DIODE, 1SS181	C322	87-012-145-089		C-CAP S 270P-50CH
	87-017-078-089		DIODE, 1N4003				
	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
				C325	87-010-179-089		C-CAP, S 1200P-50 B
	87-020-465-089		DIODE, 1SS133 T-72	C326	87-010-179-089		C-CAP, S 1200P-50 B
	87-020-330-089		C-DIODE, DAP202K	C333	87-010-198-089		C-CAP, S 0.022-25 B
	87-001-914-089		ZENER UTZJ 6.2B				
	87-001-911-089		ZENER, UTZJ4.7A (TAPG)	C334	87-010-198-089		C-CAP, S 0.022-25 B
	87-A40-209-089		ZENER, UZ27BSD	C335	87-010-189-089		C-CAP, S 8200P-50 B
				C336	87-010-189-089		C-CAP, S 8200P-50 B
	87-A40-200-089		ZENER, UZL11L3	C337	87-010-400-089		CAP, E 0.47-50 SME
	87-A40-202-089		ZENER, UZ5.1BSB	C338	87-010-400-089		CAP, E 0.47-50 SME
	87-017-093-080		ZENER, HZS5C3	C339	87-010-371-089		CAP, E 470-6.3 11L

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C340	87-010-196-089		C-CAP,S 0.1-25 F	C778	87-010-401-089		CAP,E 1-50 SME
C351	87-010-546-089		CAP,E 0.33-50 SME	C779	87-010-401-089		CAP,E 1-50 SME
C352	87-010-546-089		CAP,E 0.33-50 SME	C780	87-010-197-089		C-CAP,S 0.01-25 B
C353	87-010-401-089		CAP,E 1-50 SME	C781	87-010-404-089		CAP,E 4.7-50 SME
C354	87-010-401-089		CAP,E 1-50 SME	C782	87-010-404-089		CAP,E 4.7-50 SME
C355	87-010-401-089		CAP,E 1-50 SME	C787	87-010-184-089		C-CAP,S 3300P-50 B
C356	87-010-401-089		CAP,E 1-50 SME	C788	87-010-184-089		C-CAP,S 3300P-50 B
C357	87-010-178-089		C-CAP,S 1000P-50 B	C789	87-010-179-089		C-CAP,S 1200-50 B
C359	87-010-196-089		C-CAP,S 0.1-25 F	C790	87-010-179-089		C-CAP,S 1200-50 B
C360	87-010-196-089		C-CAP,S 0.1-25 F	C791	87-010-401-089		CAP,E 1-50 SME
C371	87-012-156-089		C-CAP,S 220P-50 CH	C792	87-010-183-089		C-CAP,S 2700P-50 B
C372	87-012-156-089		C-CAP,S 220P-50 CH	C793	87-010-189-089		C-CAP,S 8200P-50 B
C373	87-010-177-089		C-CAP,S 820P-50 SL	C794	87-010-260-089		CAP,E 47-25 SME
C374	87-010-175-089		C-CAP,S 560P-50 UJ	C795	87-010-194-089		C-CAP,S 0.047-25 F
C376	87-010-392-089		CAP,E 33-35 SME	C796	87-010-403-089		CAP,E 3.3-50 SME
C377	87-010-198-089		C-CAP,S 0.022-25 B	C797	87-010-197-089		C-CAP,S 0.01-25 B
C378	87-010-197-089		C-CAP,S 0.01-25 B	C799	87-010-405-089		CAP,E 10-50 SME
C379	87-010-183-089		C-CAP,S 2700P-50 B	C801	87-010-197-089		C-CAP,S 0.01-25 B
C380	87-010-183-089		C-CAP,S 2700P-50 B	C802	87-010-312-089		C-CAP,S 15P-50 CH
C381	87-010-183-089		C-CAP,S 2700P-50 B	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
C451	87-010-187-089		C-CAP,S 0.01-25 B	C810	87-010-197-089		C-CAP,S 0.01-25 B
C453	87-010-312-089		C-CAP,S 15P-50 CH	C811	87-010-149-089		C-CAP,S 5P-50 CH
C454	87-012-145-089		C-CAP,S 270P-50 CH	C812	87-010-314-089		C-CAP,S 22P-50 CH
C455	87-010-197-089		C-CAP,S 0.01-25 B	C813	87-010-197-089		C-CAP,S 0.01-25 B
C456	87-010-402-089		CAP,E 2.2-50 SME	C814	87-010-197-089		C-CAP,S 0.01-25 B
C523	87-010-178-089		C-CAP,S 1000P-50 B	C817	87-010-196-089		C-CAP,S 0.1-25 F
C524	87-010-178-089		C-CAP,S 1000P-50 B	C820	87-010-260-089		CAP,E 47-25 SME
C527	87-010-220-089		C-CAP,S 0.018-25 B	C821	87-010-197-089		C-CAP,S 0.01-25 B
C528	87-010-220-089		C-CAP,S 0.018-25 B	C823	87-010-197-089		C-CAP,S 0.01-25 B
C529	87-010-400-089		CAP,E 0.47-50 SME	C825	87-010-196-089		C-CAP,S 0.1-25 F
C530	87-010-400-089		CAP,E 0.47-50 SME	C827	87-010-145-089		C-CAP,S 1P-50 CH
C531	87-010-382-089		CAP,E 22-25 SME	C831	87-010-312-089		C-CAP,S 15P-50 CH
C532	87-010-198-089		C-CAP,S 0.022-25 B	C832	87-010-314-089		C-CAP,S 22P-50 CH
C553	87-010-194-089		C-CAP,S 0.047-25 F	C833	87-010-197-089		C-CAP,S 0.01-25 B
C554	87-010-183-089		C-CAP,S 2700P-50 B	C834	87-010-311-089		C-CAP,S 12P-50 CH
C555	87-010-196-089		C-CAP,S 0.1-25 F	C835	87-010-154-089		C-CAP,S 10P-50 CH
C556	87-010-263-089		CAP,E 100-10 SME 5X11	C836	87-010-312-089		C-CAP,S 15P-50 CH
C557	87-010-596-089		C-CAP,S 0.047-16 RK	C837	87-010-312-089		C-CAP,S 4P-50 CH
C558	87-010-545-089		CAP,E 0.22-50 SME	C843	87-010-146-089		C-CAP,S 2P-50 CH
C562	87-010-596-089		C-CAP,S 0.047-16 RK	C849	87-010-197-089		C-CAP,S 0.01-25 B
C601	87-010-198-089		C-CAP,S 0.022-25 B	C851	87-010-197-089		C-CAP,S 0.01-25 B
C701	87-010-404-089		CAP,E 4.7-50 SME	C901	87-010-197-089		C-CAP,S 0.01-25 B
C702	87-010-197-089		C-CAP,S 0.01-25 B	C942	87-010-148-089		C-CAP,S 4P-50 CH
C703	87-010-197-089		C-CAP,S 0.01-25 B	C946	87-010-401-089		CAP,E 1-50 SME
C704	87-010-178-089		C-CAP,S 1000P-50 B	C952	87-010-197-089		C-CAP,S 0.01-25 B
C707	87-010-402-089		CAP,E 2.2-50 SME	C955	87-010-197-089		C-CAP,S 0.01-25 B
C708	87-010-402-089		CAP,E 2.2-50 SME	C957	87-010-315-089		C-CAP,S 27P-50CH
C711	87-010-263-089		CAP,E 100-10 SME 5X11	C958	87-010-197-089		C-CAP,S 0.01-25 B
C712	87-010-112-089		CAP,E 100-16 11L	C960	87-010-196-089		C-CAP,S 0.1-25 F
C722	87-010-152-089		C-CAP,S 8P-50 CH	C988	87-010-198-089		C-CAP,S 0.022-25 B
C723	87-010-178-089		C-CAP,S 1000P-50 B	C999	87-010-196-089		C-CAP,S 0.1-25 F
C725	87-010-178-089		C-CAP,S 1000P-50 B	CF801	87-008-423-089		CF,SFE 10.7 MS3G-A
C727	87-010-196-089		C-CAP,S 0.1-25 F	CF802	82-785-747-089		CF,MS2 GHY,R
C728	87-010-248-089		CAP,E 220-10 SME	CON351	83-NEG-608-010		CONN ASSY,8P-RPB
C729	87-010-197-089		C-CAP,S 0.01-25 B	D801	87-002-730-089		VARI-CAP SVC203SPA
C730	87-018-134-089		CAP,TC-U 0.01-16 Y	D802	87-002-730-089		VARI-CAP SVC203SPA
C744	87-018-134-089		CAP,TC-U 0.01-16 Y	D803	87-002-730-089		VARI-CAP SVC203SPA
C770	87-010-197-089		C-CAP,S 0.01-25 B	D804	87-002-730-089		VARI-CAP SVC203SPA
C771	87-010-405-089		CAP,E 10-50 SME	FT510	88-906-171-110		FF CABLE 6P-1.25
C772	87-010-194-089		C-CAP,S 0.047-25 F	IFT806	87-A50-018-019		COIL,FM IFT(4T)COI
C773	87-010-196-089		C-CAP,S 0.1-25 F	J241	87-A60-031-019		JACK,6.3 BLK ST W/S
C774	87-010-263-089		CAP,E 100-10 SME 5X11	J261	87-033-240-019		TERMINAL,SP 4P 324V1-05
C775	87-010-405-089		CAP,E 10-50 SME	J281	87-099-801-019		JACK,PIN 1P BLK
C776	87-010-197-089		C-CAP,S 0.01-25 B	J501	87-099-715-019		JACK,PIN 2P
C777	87-010-400-089		CAP,E 0.47-50 SME	J802	87-033-241-019		TERMINAL,ANT AJ-2039

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L261	87-003-383-019		COIL, 1UH-S	C605	87-010-545-080		CAP, E 0.22-50 SME
L262	87-003-383-019		COIL, 1UH-S	C606	87-010-321-080		C-CAP, S 82P-50 J CH
L351	87-A50-102-019		COIL, TRAP 85K	C608	87-010-196-080		C-CAP, S 0.1-25 Z F
L352	87-007-341-019		COIL, TRAP 85K	C609	87-010-177-080		C-CAP, S 820P-50 J SL
L371	87-007-342-019		COIL, OSC 85K BIAS	C610	87-010-318-080		C-CAP, S 47P-50 CH
L701	87-A50-027-019		COIL, 1 POLE MPX (TOK)	C615	87-010-401-040		CAP, E 1-50 SME
L702	87-A50-027-019		COIL, 1 POLE MPX (TOK)	C631	87-010-197-080		C-CAP, S 0.01-25 K B
L741	87-A50-015-019		COIL, FM DET (TOK)	C641	87-010-196-080		C-CAP, S 0.1-25 Z F
L742	87-A90-051-019		FLTR, CFAZ-450 (TOK)	C652	87-010-196-080		C-CAP, S 0.1-25 Z F
L770	87-003-102-089		COIL, 10UH (CECS)	C653	87-010-545-080		CAP, E 0.22-50 SME
L790	87-005-564-089		C-COIL, 2.2UH	C654	87-010-178-080		C-CAP, S 1000P-50 K B
L801	87-006-249-019		COIL, ANT FM3/4TS, L4	C715	87-010-555-040		CAP, E 100-10 5L SRE
L802	87-006-251-019		COIL, ANT FM2-3/4TS, L4	C851	87-010-196-080		C-CAP, S 0.1-25 Z F
L803	87-006-244-019		COIL, RF FM 3-1/2T, L4	C853	87-010-406-040		CAP, E 22-50 SME
L804	87-006-250-019		COIL, RF FM 3-1/2TS, L4	C854	87-010-405-040		CAP, E 10-50 SME
L805	87-003-098-089		COIL, 2.2UH (CECS)	FB601	87-008-372-080		FLTR, EMIBL01 RN1
L807	87-A50-031-019		COIL, FM OSC (TOK)	FFC102	88-910-331-110		FF-CABLE, 10P 1.25
L831	87-006-250-019		COIL, RF FM 3-1/2TS, L4	FFC103	88-918-131-110		FF-CABLE, 18P 1.25 130
L832	87-003-098-089		COIL, 2.2UH (CECS)	FFC501	88-915-261-210		FF-CABLE, 15P 1.25
L941	87-A50-020-019		COIL, ANT LW	FL101	86-NE5-625-010		FL, 8-BT-194GK
L942	87-A50-019-019		COIL, OSC LW	J600	82-NF7-630-010		JACK, 3.5 MO
L981	86-NF4-665-019		AM PACK 1 (TOK)	J601	82-NF7-630-010		JACK, 3.5 MO
R191	87-022-050-089		RESIS METAL 1W-0.22J	L201	87-007-340-010		COIL, CLOCK 4.19HZ
R192	87-022-050-089		RESIS METAL 1W-0.22J	L250	87-Q03-098-080		COIL, 2.2 UH
RY151	87-045-361-019		RELAY, DH12D2-OS(M)-2	LED401	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR311	87-024-177-089		SFR 220K DIA.6 V	LED402	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR312	87-024-177-089		SFR 220K DIA.6 V	LED403	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR321	87-024-177-089		SFR 220K DIA.6 V	LED404	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR322	87-024-177-089		SFR 220K DIA.6 V	LED405	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR371	87-024-175-089		SFR, 47K DIA6 V	LED406	87-017-784-080		LED, SEL1550CM TP8 PGRN
SFR372	87-024-175-089		SFR, 47K DIA6 V	LED407	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
SFR401	87-024-175-089		SFR, 47K DIA6 V	LED408	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
SFR402	87-024-175-089		SFR, 47K DIA6 V	LED409	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
SFR722	87-024-353-089		SFR, 10K DIA6 H	LED410	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
TC721	87-011-253-089		TRIMMER, 30P LAR	LED411	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
TC801	87-011-252-089		TRIMMER 10P LAR	LED412	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
TC802	87-011-252-089		TRIMMER 10P LAR	LED413	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
TC803	87-011-252-089		TRIMMER 10P LAR	LED414	87-070-199-080		LED, SLP-738F-81-S-T1 P-GRN
TC942	87-011-253-089		TRIMMER, 30P LAR	LED420	87-070-201-080		LED, SLP-9118C-51-S RED
VR501	82-NF5-660-019		VR, 50KBX2 RK14K12A	LED421	87-070-201-080		LED, SLP-9118C-51-S RED
W111	85-NF5-628-019		F-CABLE 7P-2.5	LED422	87-070-201-080		LED, SLP-9118C-51-S RED
X703	84-508-618-019		VIB, CER CSB 456 F/5	LED423	87-070-201-080		LED, SLP-9118C-51-S RED
X721	87-030-372-019		VIB, XTAL 7.2MHZ	LED424	87-070-201-080		LED, SLP-9118C-51-S RED
				LED425	87-070-201-080		LED, SLP-9118C-51-S RED
				LED426	87-070-201-080		LED, SLP-9118C-51-S RED
				LED427	87-070-201-080		LED, SLP-9118C-51-S RED
				LED428	87-070-201-080		LED, SLP-9118C-51-S RED
				LED429	87-070-201-080		LED, SLP-9118C-51-S RED
				LED430	87-070-201-080		LED, SLP-9118C-51-S RED
				LED431	87-070-201-080		LED, SLP-9118C-51-S RED
				LED432	87-070-201-080		LED, SLP-9118C-51-S RED
				LED433	87-070-201-080		LED, SLP-9118C-51-S RED
				LED434	87-070-201-080		LED, SLP-9118C-51-S RED
				R754	87-029-017-010		FUSE, RES 10-1/4W J
				S301	87-A90-164-080		SW, TACT SKQNB (N)
				S302	87-A90-164-080		SW, TACT SKQNB (N)
				S303	87-A90-164-080		SW, TACT SKQNB (N)
				S304	87-A90-164-080		SW, TACT SKQNB (N)
				S306	87-A90-164-080		SW, TACT SKQNB (N)
				S307	87-A90-164-080		SW, TACT SKQNB (N)
				S310	87-A90-164-080		SW, TACT SKQNB (N)
				S311	87-A90-164-080		SW, TACT SKQNB (N)
				S312	87-A90-164-080		SW, TACT SKQNB (N)
				S313	87-A90-164-080		SW, TACT SKQNB (N)
				S314	87-A90-164-080		SW, TACT SKQNB (N)
				S315	87-A90-164-080		SW, TACT SKQNB (N)
				S316	87-A90-164-080		SW, TACT SKQNB (N)
				S317	87-A90-164-080		SW, TACT SKQNB (N)
				S318	87-A90-164-080		SW, TACT SKQNB (N)
				S319	87-A90-164-080		SW, TACT SKQNB (N)
C201	87-018-134-080		CAP, TC-U 0.01-16 Y				
C203	87-010-182-080		C-CAP, S 2200P-50 K B				
C204	87-010-313-080		C-CAP, S 18P-50 J CH				
C205	87-010-314-080		C-CAP, S 22P-50 CH				
C206	87-012-140-080		C-CAP, S 470P-50 J CH				
C207	87-012-368-080		C-CAP, S 0.1-50 Z F				
C251	87-010-405-040		CAP, E 10-50 SME				
C252	87-010-555-040		CAP, E 100-10 5L SRE				
C253	87-010-754-040		CAP, E 220-10 7L SRE				
C255	87-010-401-040		CAP, E 1-50 SME				
C256	87-010-401-040		CAP, E 1-50 SME				
C257	87-010-196-080		C-CAP, S 0.1-25 Z F				
C258	87-018-209-080		CAP, TC-U 0.1-50 F				
C259	87-018-209-080		CAP, TC-U 0.1-50 F				
C351	87-010-404-040		CAP, E 4.7-50 SME				
C352	87-010-404-040		CAP, E 4.7-50 SME				
C353	87-010-408-040		CAP, E 47-50 SME				
C403	87-010-196-080		C-CAP, S 0.1-25 Z F				
C404	87-018-209-080		CAP, TC-U 0.1-50 F				
C508	87-010-112-080		CAP, E 100-16 SME				
C601	87-010-405-040		CAP, E 10-50 SME				
C602	87-010-248-080		CAP, E 220-10 SME				
C603	87-010-197-080		C-CAP, S 0.01-25 K B				
C604	87-010-186-080		C-CAP, S 4700P-50 K B				

FRONT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S320	87-A90-164-080	SW, TACT	SKQNA(N)	C875	87-010-177-080	C-CAP, S	820P-50 J SL
S321	87-A90-164-080	SW, TACT	SKQNA(N)	C876	87-010-182-080	C-CAP, S	2200P-50 K B
S322	87-A90-164-080	SW, TACT	SKQNA(N)	C877	87-010-263-080	CAP, E	100-10 SME
S323	87-A90-164-080	SW, TACT	SKQNA(N)	C878	87-010-194-080	C-CAP, S	0.047-25 K F
S324	87-A90-164-080	SW, TACT	SKQNA(N)	C879	87-012-141-080	C-CAP, S	0.22-16 Z F
S325	87-A90-164-080	SW, TACT	SKQNA(N)	C880	87-010-179-080	C-CAP, S	1200P-50 K B
S326	87-A90-164-080	SW, TACT	SKQNA(N)	C881	87-010-426-080	C-CAP, S	0.012-25 K B
VR601	82-NK7-615-010	VR, 10KA	RK11K1130	C883	87-010-404-080	CAP, E	4.7-50 SME
VR801	86-NES-603-010	VR, RTRY	100KB/RK11K1130	C884	87-010-263-080	CAP, E	100-10 SME
				C885	87-010-196-080	C-CAP, S	0.1-25 Z F
MVR C.B				C886	87-012-156-080	C-CAP, S	220P-50 J CH GRM
				C887	87-010-319-080	C-CAP, S	56P-50 J CH
C451	87-010-176-080	C-CAP, S	680P-50 J SL	C888	87-010-319-080	C-CAP, S	56P-50 J CH
C452	87-010-176-080	C-CAP, S	680P-50 J SL	C889	87-010-196-080	C-CAP, S	0.1-25 Z F
C457	87-010-405-080	CAP, E	10-50 SME	C891	87-010-197-080	C-CAP, S	0.01-25 K B
C458	87-010-405-080	CAP, E	10-50 SME				
C459	87-016-456-080	CAP, E	22-16 LLA	C892	87-010-179-080	C-CAP, S	1200P-50 K B
				C894	87-012-358-080	C-CAP, S	0.47-10 Z F
C460	87-010-112-080	CAP, E	100-16 SME	FFC671	88-906-211-110	FF-CABLE,	6P 1.25
C461	87-016-081-080	C-CAP, S	0.1-16 K R	L871	87-005-440-080	COIL, 47UH	K FLR50
C462	87-010-260-080	CAP, E	47-25 SME	MVR771	86-NES-602-010	VR, MOT	50KBX4/(M)
C464	87-016-472-080	CAP, E	22-16 K SME				
C465	87-010-263-080	CAP, E	100-10 SME	R477	87-025-407-080	RES, M/F	100K-1/8W F
C467	87-010-378-080	CAP, E	10-16 SME				
C468	87-010-378-080	CAP, E	10-16 SME	SURROUND AMP C.B			
C469	87-010-378-080	CAP, E	10-16 SME				
C470	87-010-378-080	CAP, E	10-16 SME				
C471	87-010-378-080	CAP, E	10-16 SME	C561	87-010-177-080	C-CAP, S	820P-50 J SL
				C562	87-010-177-080	C-CAP, S	820P-50 J SL
C472	87-010-101-080	CAP, E	220-16 SME	C563	87-010-402-080	CAP, E	2.2-50 SME
C473	87-012-140-080	C-CAP, S	470P-50 J CH	C564	87-010-402-080	CAP, E	2.2-50 SME
C474	87-010-187-080	C-CAP, S	5600P-50 K B	C565	87-010-378-080	CAP, E	10-16 SME
C475	87-010-186-080	C-CAP, S	4700P-50 K B	C566	87-010-378-080	CAP, E	10-16 SME
C478	87-012-394-080	C-CAP, 0.68-16	K W5R CM/CB	C567	87-010-318-080	C-CAP, S	47P-50 CH
				C568	87-010-318-080	C-CAP, S	47P-50 CH
C479	87-012-393-080	C-CAP, S	0.22-16 K W5R CM/CB	C569	87-010-147-080	C-CAP, S	3P-50 C CH GRM
C480	87-012-393-080	C-CAP, S	0.22-16 K W5R CM/CB	C570	87-010-147-080	C-CAP, S	3P-50 C CH GRM
C481	87-010-404-080	CAP, E	4.7-50 SME				
C482	87-010-404-080	CAP, E	4.7-50 SME	C573	87-010-196-080	C-CAP, S	0.1-25 Z F
C483	87-012-393-080	C-CAP, S	0.22-16 K W5R CM/CB	C574	87-010-196-080	C-CAP, S	0.1-25 Z F
				C575	87-010-193-080	C-CAP, S	0.033-25 K F
C484	87-012-393-080	C-CAP, S	0.22-16 K W5R CM/CB	C576	87-010-193-080	C-CAP, S	0.033-25 K F
C485	87-016-081-080	C-CAP, S	0.1-16 K R	C577	87-010-197-080	C-CAP, S	0.01-25 K B
C488	87-016-081-080	C-CAP, S	0.1-16 K R				
C489	87-016-081-080	C-CAP, S	0.1-16 K R	C581	87-010-405-080	CAP, E	10-50 SME
C492	87-016-081-080	C-CAP, S	0.1-16 K R	C582	87-010-398-090	CAP, E	2200-35 SME
				C583	87-010-398-090	CAP, E	2200-35 SME
C495	87-010-197-080	C-CAP, S	0.01-25 K B	C584	87-018-209-080	CAP, TC-U	0.1-50 F
C671	87-010-402-080	CAP, E	2.2-50 SME	C585	87-018-209-080	CAP, TC-U	0.1-50 F
C672	87-010-402-080	CAP, E	2.2-50 SME				
C673	87-010-401-080	CAP, E	1-50 SME	J561	87-A60-275-010	JACK, PIN	3P OWR W/E
C674	87-010-401-080	CAP, E	1-50 SME	L561	87-003-383-010	COIL, 1UH	K
				L562	87-003-383-010	COIL, 1UH	K
C675	87-010-263-080	CAP, E	100-10 SME	R585	87-022-050-080	RES, M/F	0.22-1W J
C676	87-010-384-080	CAP, E	100-25 SME	R586	87-022-050-080	RES, M/F	0.22-1W J
C701	87-010-993-080	C-CAP, S	0.056-25 K B MK212				
C702	87-010-993-080	C-CAP, S	0.056-25 K B MK212	CD C.B			
C703	87-016-460-080	C-CAP, S	0.22-16 K B				
C704	87-016-460-080	C-CAP, S	0.22-16 K B	C001	87-010-382-089	CAP, E	22-25 SME
C705	87-016-081-080	C-CAP, S	0.1-16 K R	C002	87-018-134-089	CAP, TC-U	0.01-16 Y
C706	87-010-260-080	CAP, E	47-25 SME	C003	87-010-263-089	CAP, E	100-10 SME 5X11
C707	87-010-182-080	C-CAP, S	2200P-50 K B	C004	87-010-401-089	CAP, E	1-50 SME
C708	87-010-182-080	C-CAP, S	2200P-50 K B	C005	87-018-140-089	CAP, TC-U	2.2P-50 CH
C709	87-010-545-080	CAP, E	0.22-50 SME	C007	87-018-113-089	CAP, TC-U	33P-50 SL
C710	87-010-545-080	CAP, E	0.22-50 SME	C008	87-018-119-089	CAP, TC-U	100P-50 B
C711	87-010-401-080	CAP, E	1-50 SME	C010	87-010-545-089	CAP, E	0.22-50 SMF
C712	87-010-401-080	CAP, E	1-50 SME	C011	87-010-265-089	CAP, E	33-16 SME
C713	87-010-260-080	CAP, E	47-25 SME	C013	87-018-134-089	CAP, TC-U	0.01-16 Y
C714	87-010-405-080	CAP, E	10-50 SME	C014	87-010-248-089	CAP, E	220-10 SME
C717	87-010-401-080	CAP, E	1-50 SME	C015	87-010-374-089	CAP, E	47-10
C718	87-010-401-080	CAP, E	1-50 SME	C016	87-010-403-089	CAP, E	3.3-50 SME
C773	87-010-198-080	C-CAP, S	0.022-25 B	C021	87-018-117-089	CAP, TC-U	68P-50 SL
C871	87-012-358-080	C-CAP, S	0.47-10 Z F	C022	87-018-201-089	CAP, TC-U	5600P-16 X
C872	87-010-179-080	C-CAP, S	1200P-50 K B	C023	87-010-263-089	CAP, E	100-10 SME 5X11
C873	87-010-180-080	C-CAP, S	1500P-50 K B	C024	87-018-134-089	CAP, TC-U	0.01-16 Y
C874	87-010-180-080	C-CAP, S	1500P-50 K B	C101	87-018-134-089	CAP, TC-U	0.01-16 Y

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C102	87-018-134-089		CAP,TC-U 0.01-16 Y	AC C.B			
C103	87-010-374-089		CAP,E 47-10				
C104	87-010-374-089		CAP,E 47-10				
C106	87-018-134-089		CAP,TC-U 0.01-16 Y	C101	87-010-196-089		C-CAP,S 0.1-25 F
C107	87-010-404-089		CAP,E 4.7-50 SME	△PR101	87-026-681-089		PROTECTOR 5A 491 60V
				△PR102	87-026-681-089		PROTECTOR 5A 491 60V
				R111	87-022-449-089		RES,NF 0.47-1/2WJ
				R112	87-022-449-089		RES,NF 0.47-1/2WJ
C108	87-018-134-089		CAP,TC-U 0.01-16 Y	PT C.B			
C109	87-010-248-089		CAP,E 220-10 SME				
C110	87-010-263-089		CAP,E 100-10 SME 5X11				
C111	87-018-131-089		CAP,TC-U 1000P-50 B				
C113	87-010-401-089		CAP,E 1-50 SME				
C114	87-010-248-089		CAP,E 220-10 SME	△	82-304-743-019		TERMINAL,1P
C115	87-018-134-089		CAP,TC-U 0.01-16 Y	△F101	87-035-363-019		FUSE,1.25A 250V T E
C116	87-018-134-089		CAP,TC-U 0.01-16 Y	△FC101	87-033-213-089		CLAMP FUSE SMK
C117	87-018-119-089		CAP,TC-U 100P-50 B	△FC102	87-033-213-089		CLAMP FUSE SMK
C118	87-010-263-089		CAP,E 100-10 SME 5X1	△PT101	86-NFT-635-010		PT,6NF-26 EK
C120	87-018-109-089		CAP,TC-U 22P-50 SL	DECK C.B			
C121	87-018-109-089		CAP,TC-U 22P-50 SL				
C122	87-018-115-089		CAP,TC-U 47P-50 SL	SFR1	87-024-581-089		SFR,3.3K DIA 6H
C123	87-018-134-089		CAP,TC-U 0.01-16 Y	SOL1	82-ZM1-618-310		SOL ASSY,27
C125	87-010-401-089		CAP,E 1-50 SME	SOL2	82-ZM1-626-310		SOL ASSY,27K
C201	87-018-115-089		CAP,TC-U 47P-50 SL	SW1	87-036-378-019		SW,PUSH 1-1-1 SH2
C202	87-018-115-089		CAP,TC-U 47P-50 SL	SW2	87-036-378-019		SW,PUSH 1-1-1 SH2
C203	87-018-118-089		CAP,TC-U 82P-50 B				
C204	87-018-118-089		CAP,TC-U 82P-50 B	SW3	87-036-378-019		SW,PUSH 1-1-1 SH2
C205	87-018-118-089		CAP,TC-U 82P-50 B	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
C206	87-018-118-089		CAP,TC-U 82P-50 B				
C207	87-018-120-089		CAP,TC-U 120P-50 B				
C208	87-018-120-089		CAP,TC-U 120P-50 B				
C209	87-018-120-089		CAP,TC-U 120P-50 B	SW9	87-036-378-019		SW,PUSH 1-1-1 SH2
C210	87-018-120-089		CAP,TC-U 120P-50 B				
C211	87-010-403-089		CAP,E 3.3-50 SME	HEAD-1 C.B			
C212	87-010-403-089		CAP,E 3.3-50 SME				
C213	87-018-133-089		CAP,TC-U 4700P-16 X	HEAD-2 C.B			
C214	87-018-133-089		CAP,TC-U 4700P-16 X				
C231	87-010-221-089		CAP,E 470-10				
C232	87-010-263-089		CAP,E 100-10 SME 5X11				
C302	87-010-404-089		CAP,E 4.7-50 SME				
C501	87-018-134-089		CAP,TC-U 0.01-16 Y				
C502	87-010-221-089		CAP,E 470-10				
C503	87-010-263-089		CAP,E 100-10 SME 5X11				
C504	87-018-134-089		CAP,TC-U 0.01-16 Y				
C505	87-018-134-089		CAP,TC-U 0.01-16 Y				
C506	87-010-221-089		CAP,E 470-10				
C601	87-018-134-089		CAP,TC-U 0.01-16 Y				
C602	87-010-381-089		CAP,E 330-16 SME				
C702	87-018-119-089		CAP,TC-U 100P-50 B				
C703	87-018-119-089		CAP,TC-U 100P-50 B				
C704	87-018-115-089		CAP,TC-U 47P-50 SL				
C707	87-018-131-089		CAP,TC-U 1000P-50 B				
CON1	85-NB8-647-019		CONN ASSY,8P-W				
CON2	87-NE8-648-019		CONN ASSY,8P-R				
CON3	87-NE8-649-019		CONN ASSY,6P-SL				
CON4	87-NE8-650-019		CONN ASSY,5P-LM				
L002	87-005-730-089		COIL,10UH J SP02				
L301	87-005-730-089		COIL,10UH J SP02				
SFR001	87-024-176-089		SFR,100K DIA6 V				
SFR002	87-024-171-089		SFR,4.7K DIA6 V				
X101	87-030-221-089		CERALOCK 16.93MHZ				

DRIVE C.B

M1	87-045-358-019		MOT, RF-310TA 43
M2	87-045-356-019		MOT, RF-310TA 30
SW1	87-036-340-019		SW, LEAF LSA-1121

MOTOR CD C.B

M1	87-045-305-019		MOTOR, RF-500TB
SW1	87-036-110-010		SW,PUSH SPPB 62
SW2	87-036-110-010		SW,PUSH SPPB 62

TRANSISTOR ILLUSTRATION



E C B

2SA1296
2SC3266
KTA1266
KTC3198



E C B

2SA933S
2SC1740
DTA114YS
DTA114ES
DTA144ES
DTA143ES
DTA144TS



S G D

2SK246



E C B

2SA952
2SD655
2SC2001



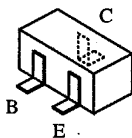
E C B

2SA1318
2SC3331

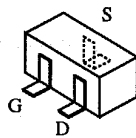


B C E

2SB1370



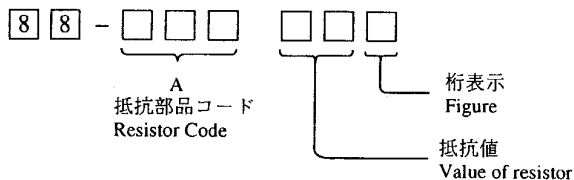
2SA1162
2SC2712
2SC2714
DTA124EK
DTC144WK
2SC3326B
DTA114YK
DTC144EK



2SK543
2SK360

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

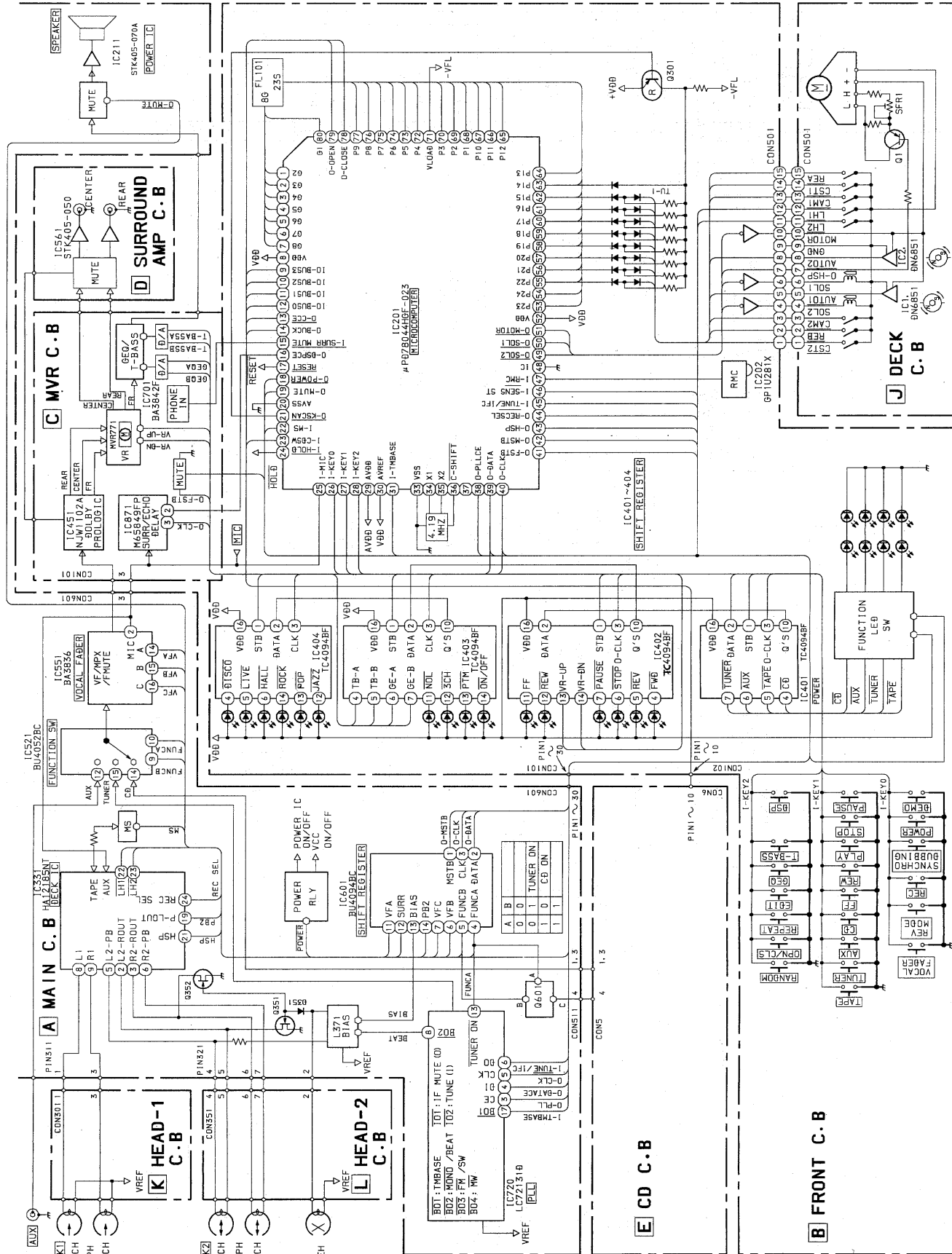
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



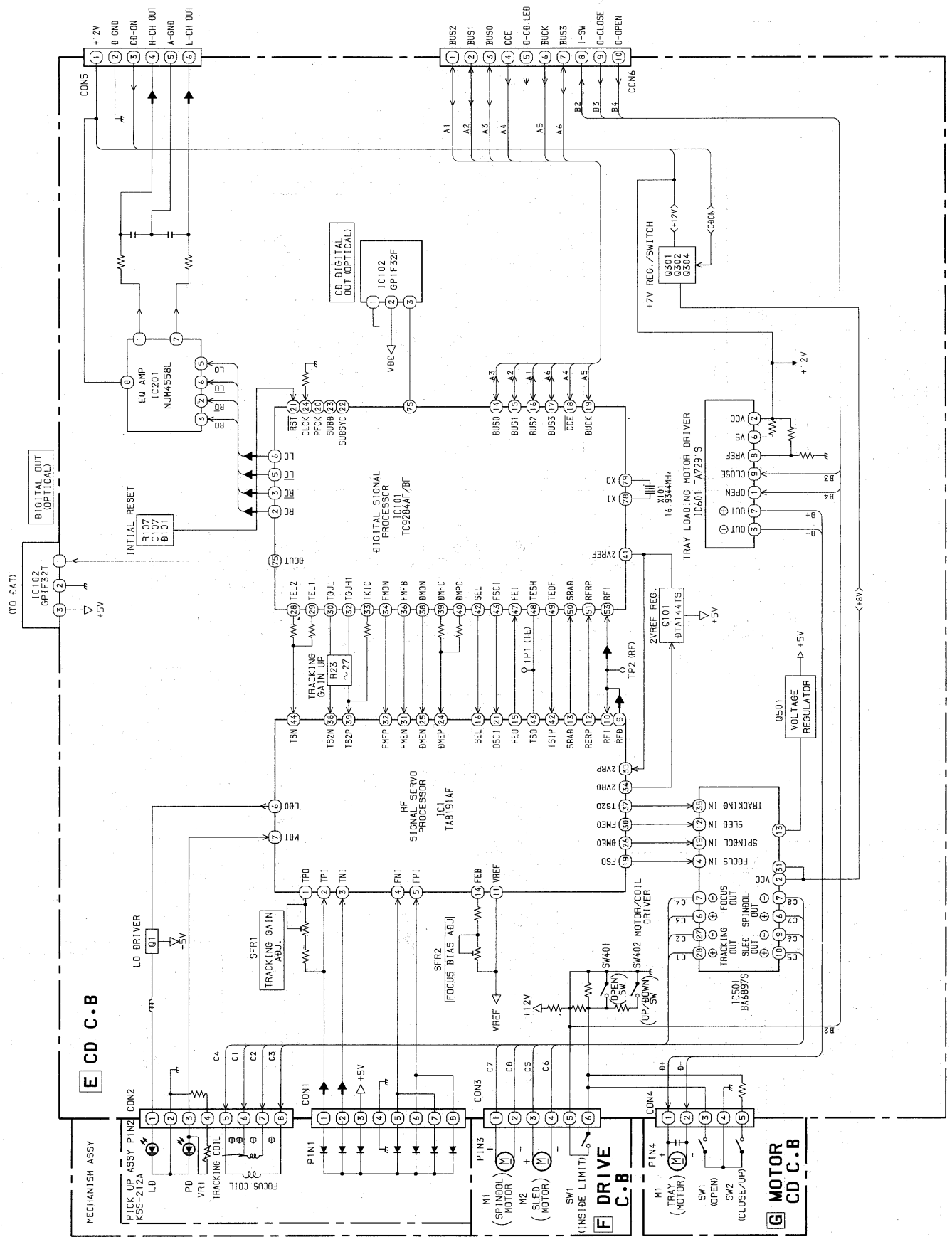
チップ抵抗
Chip resistor

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

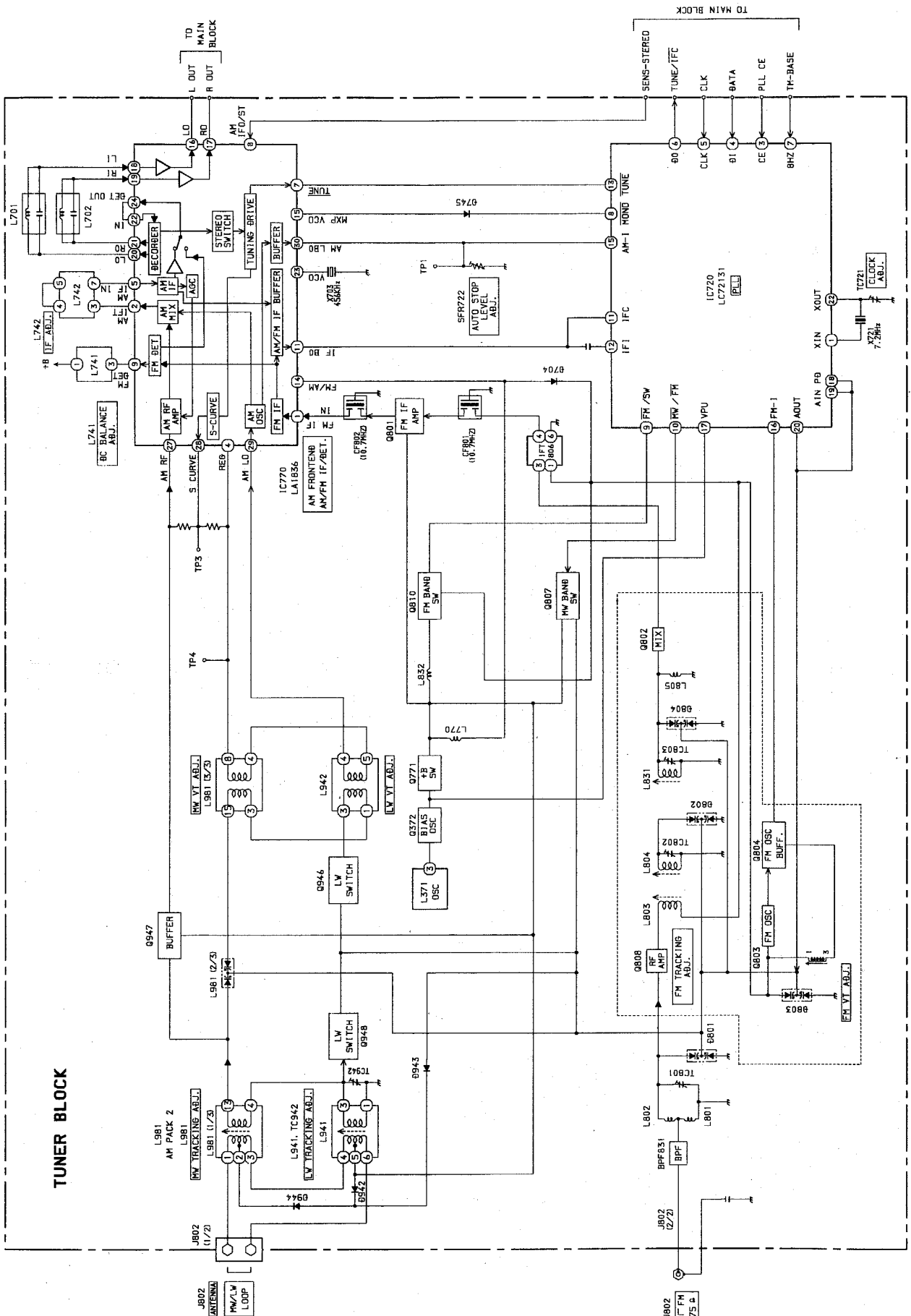
BLOCK DIAGRAM -1 (MAIN/FRONT)



BLOCK DIAGRAM - 2 (CD)

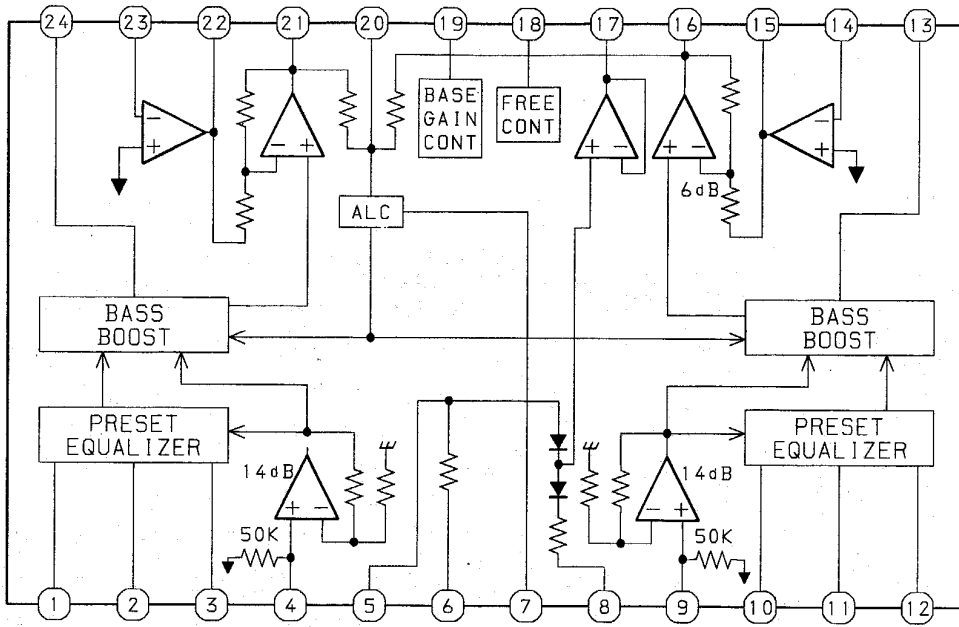


BLOCK DIAGRAM - 3 (TUNER)

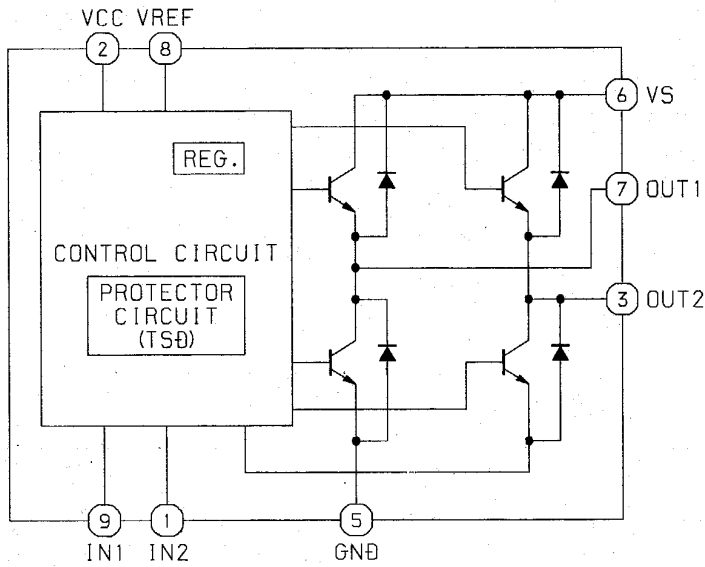


IC BLOCK DIAGRAM - 1

IC, BA3842F



IC, TA7291S



TRUTH TABLE

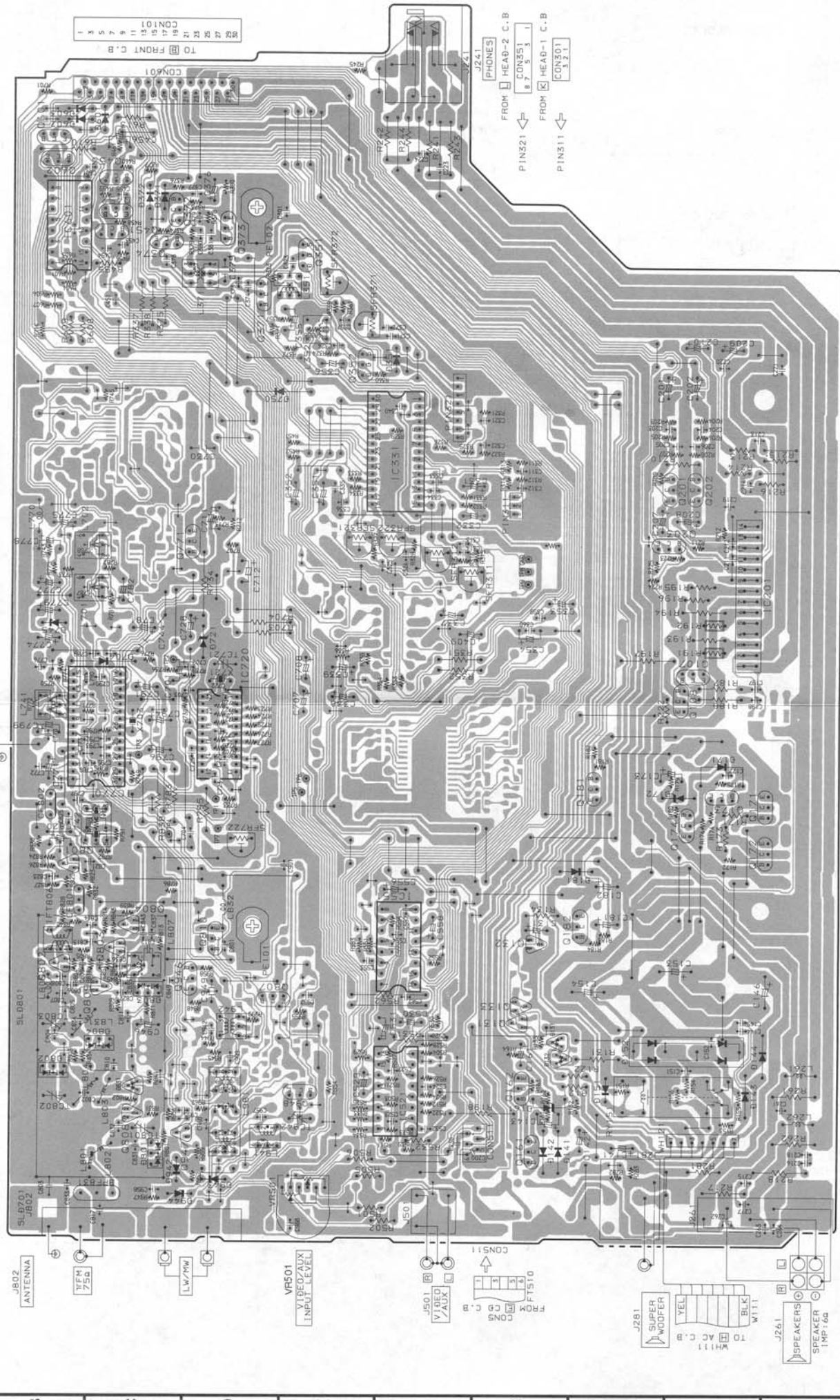
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

∞ : HIGH IMPEDANCE
 INPUT IS "H" ACTIVE

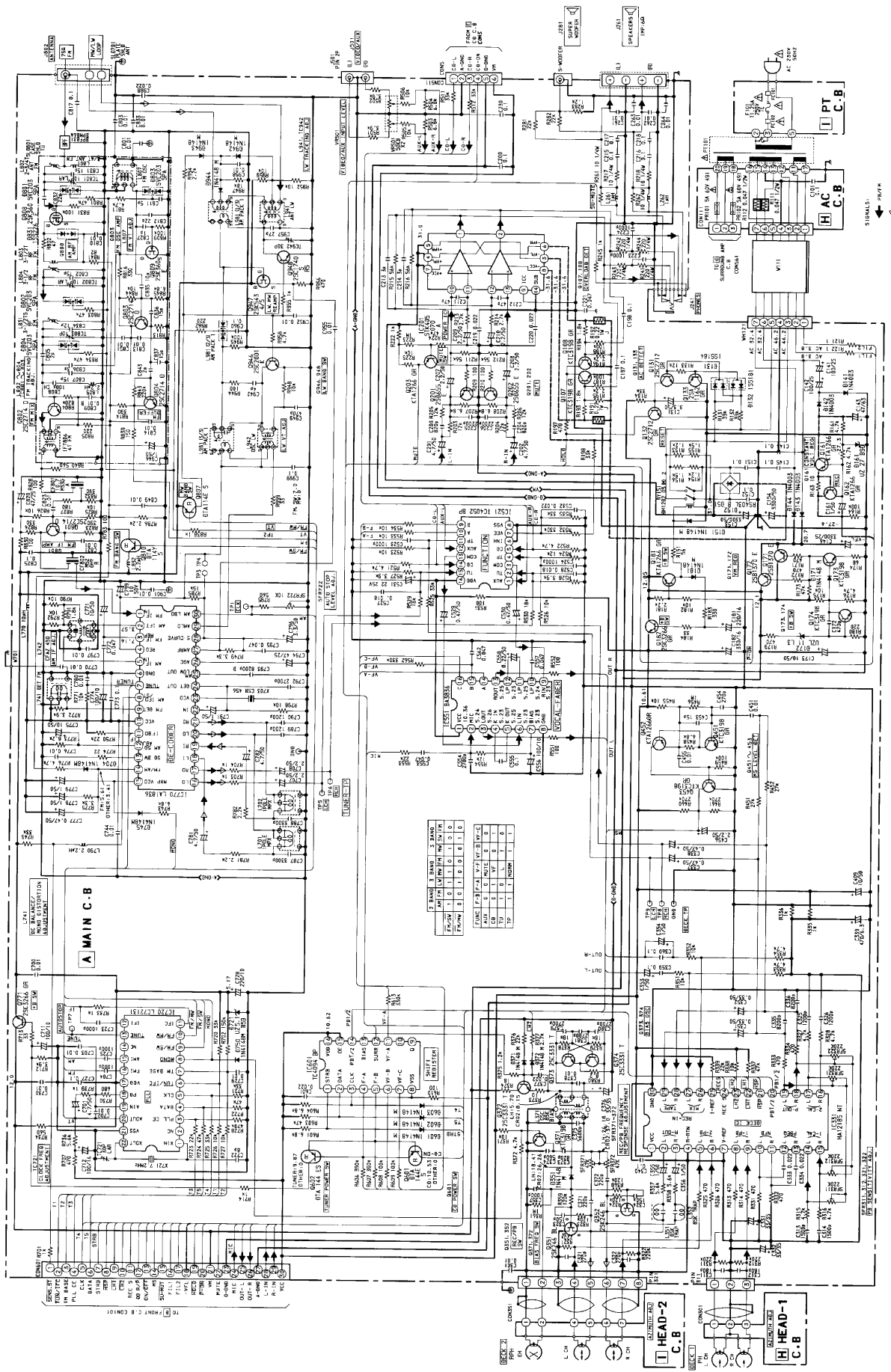
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J

A MAIN C. B

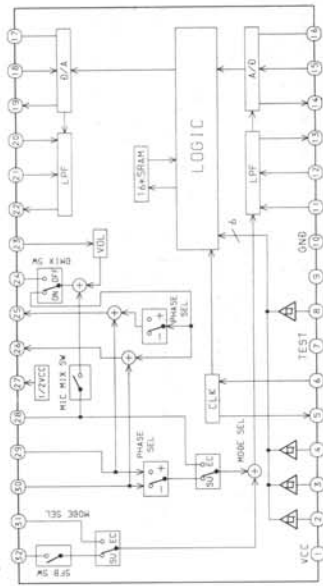


SCHEMATIC DIAGRAM - 1 (MAIN)

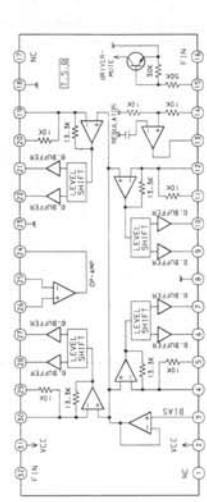


IC BLOCK DIAGRAM - 2

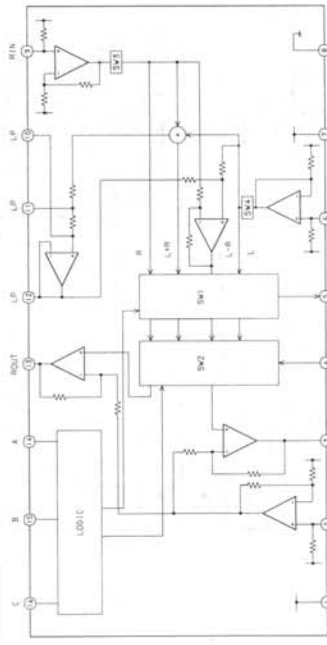
IC.M65849FP



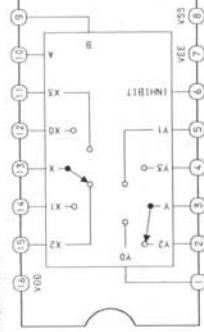
IC.BA6897S



IC.BA3836



IC.TC4052BP

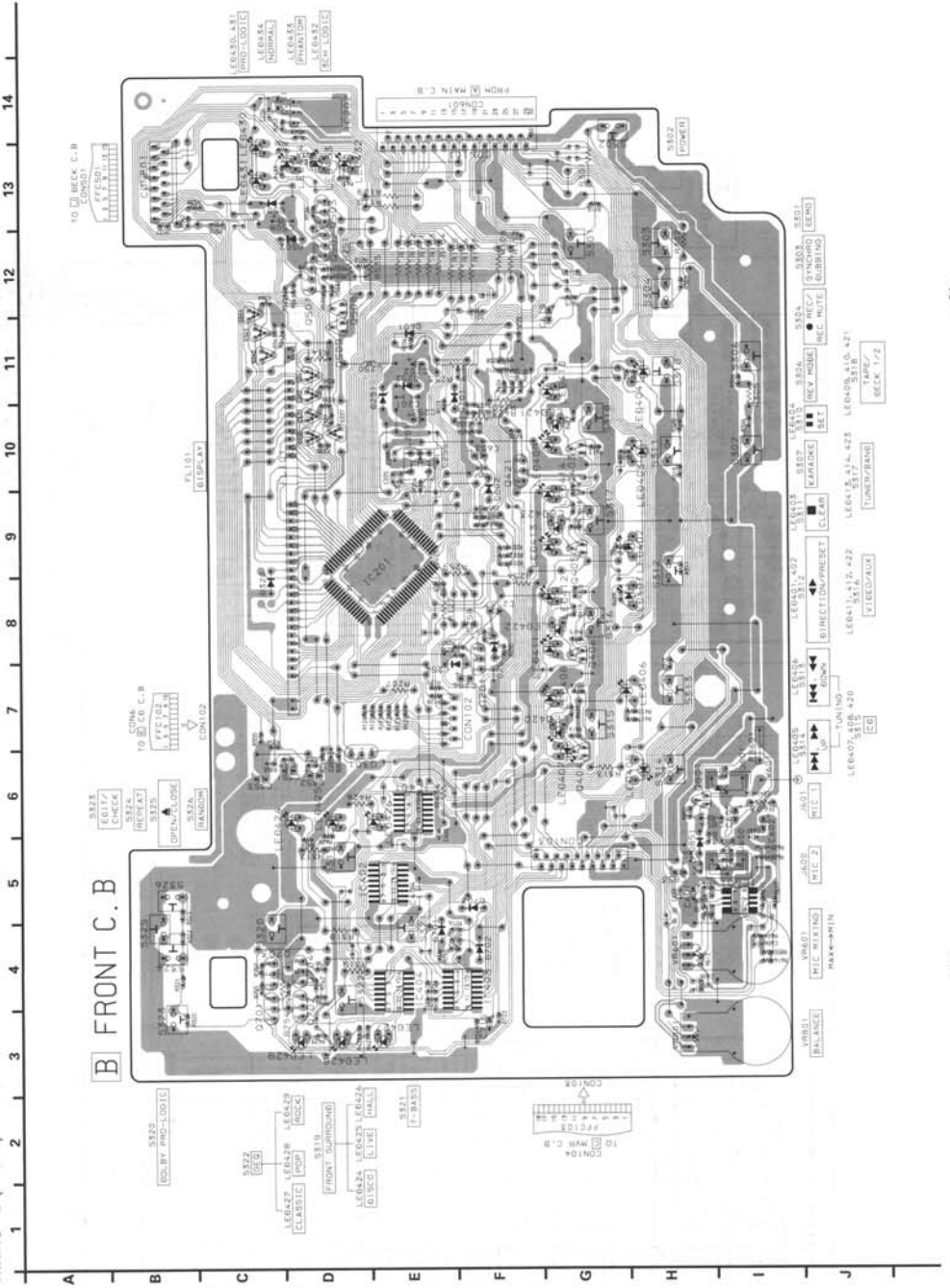


TRUTH TABLE

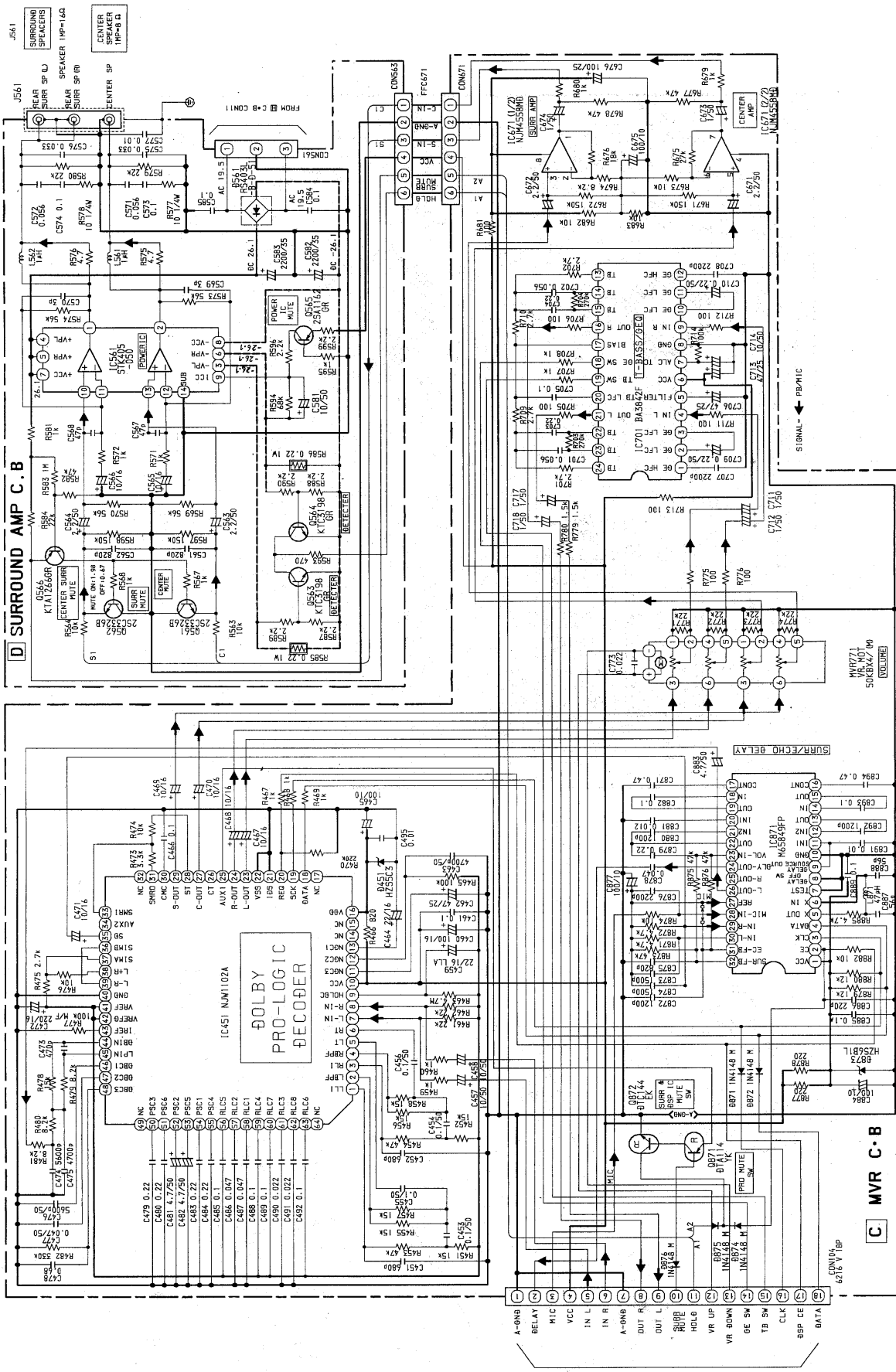
CONTROL INPUTS		ON SWITCH	
INHIBIT	B	A	X0
L	L	L	X0
L	L	H	X1
L	H	L	X2
L	H	H	X3
H	L	L	X4
H	L	H	X5
H	H	L	X6
H	H	H	X7

L: LOW LEVEL
H: HIGH LEVEL
-: IRRELEVANT

WIRING - 2 (FRONT)

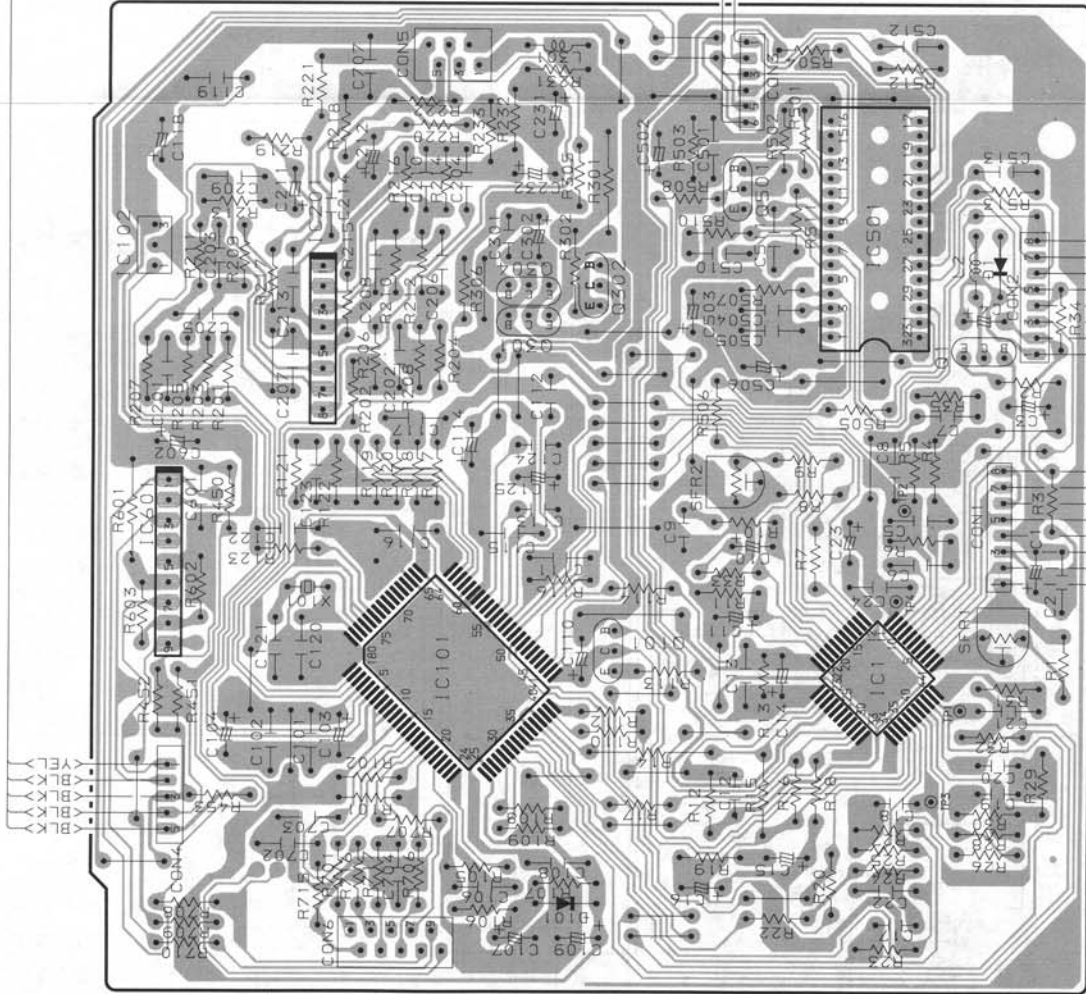


SCHEMATIC DIAGRAM - 3 (MVR/SURROUNDAMP)

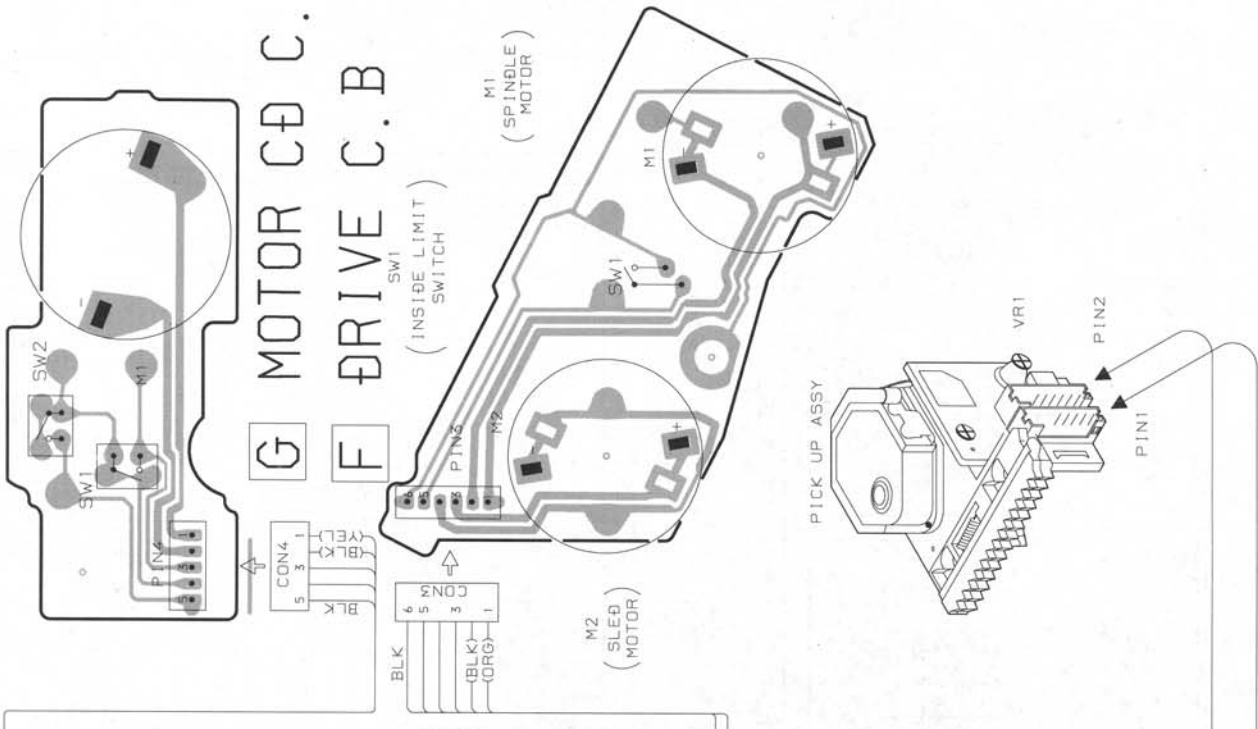


1 2 3 4 5 6 7 8 9 10 11 12 13 14

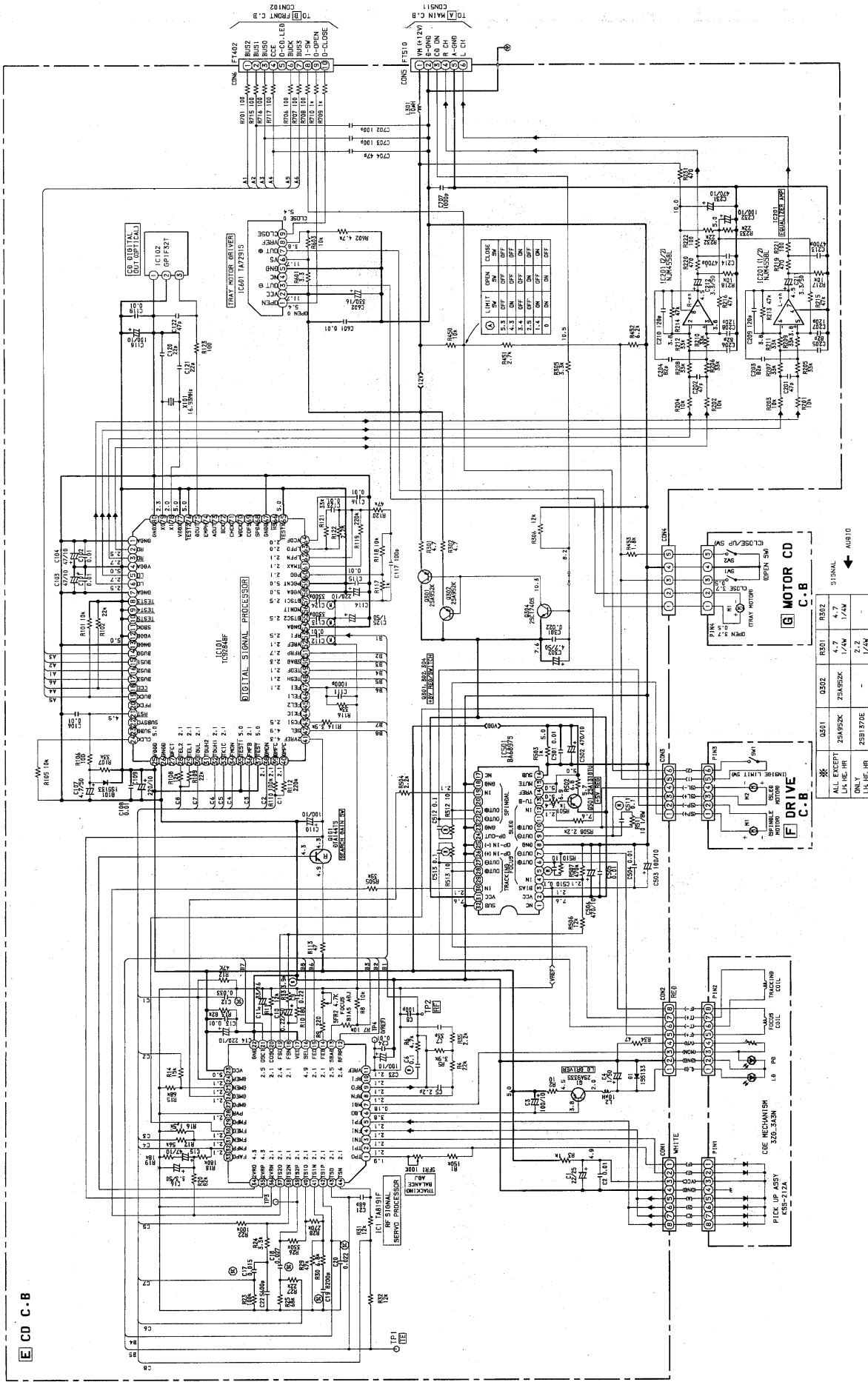
E C Ø C. B



G MOTOR C Ø C. B
F Ø RIVE C. B



SCHEMATIC DIAGRAM - 4 (CD)



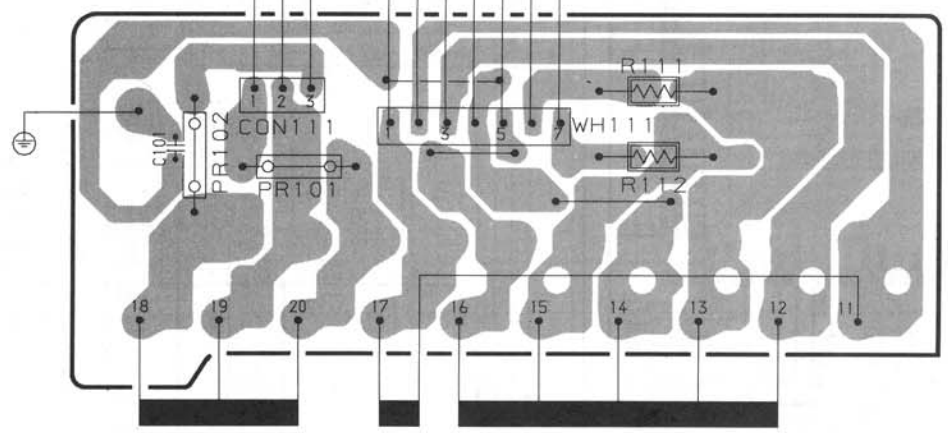
IC	DESCRIPTION	QTY	REMARKS
0301	0302	0303	0304
0305	0306	0307	0308
0309	0310	0311	0312
0313	0314	0315	0316
0317	0318	0319	0320
0321	0322	0323	0324
0325	0326	0327	0328
0329	0330	0331	0332
0333	0334	0335	0336
0337	0338	0339	0340
0341	0342	0343	0344
0345	0346	0347	0348
0349	0350	0351	0352
0353	0354	0355	0356
0357	0358	0359	0360
0361	0362	0363	0364
0365	0366	0367	0368
0369	0370	0371	0372
0373	0374	0375	0376
0377	0378	0379	0380
0381	0382	0383	0384
0385	0386	0387	0388
0389	0390	0391	0392
0393	0394	0395	0396
0397	0398	0399	0400

1 2 3 4 5 6 7

A
B
C
D
E
F
G
H
I
J

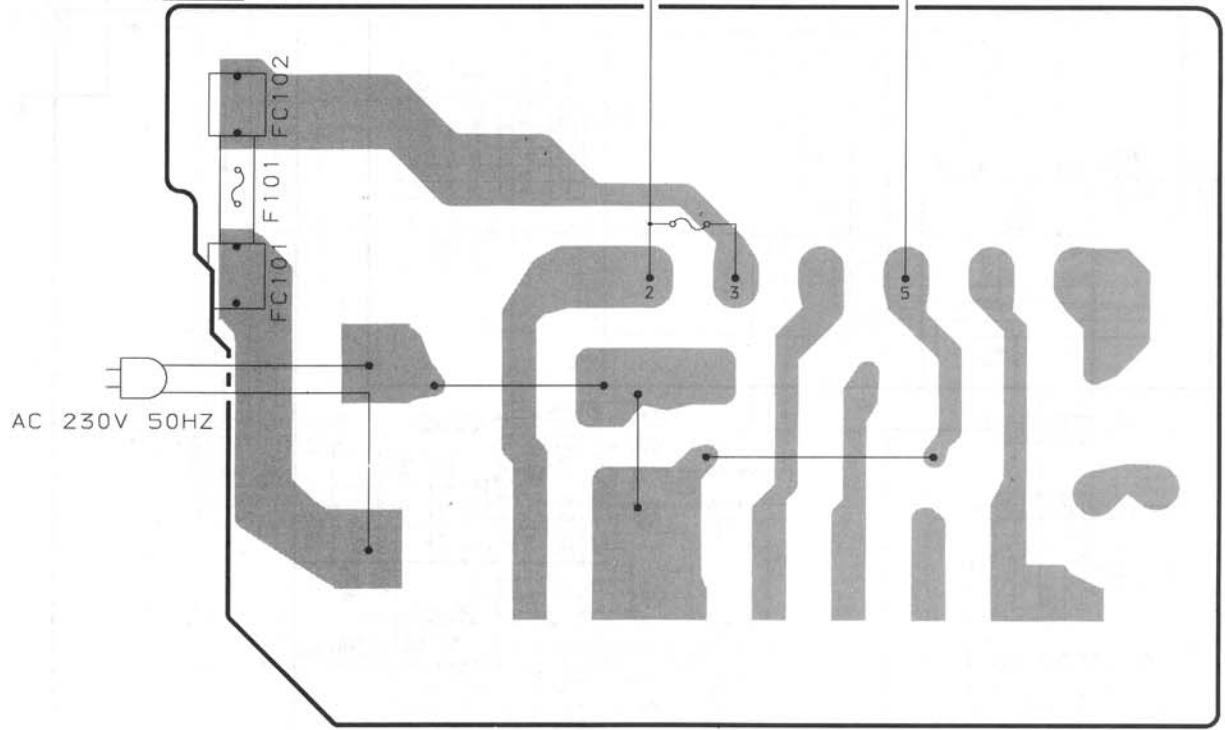
H AC C.B

TO **D** SURROUND AMP. C.B
 FROM **A** MAIN C.B
 CON561
 1 2 3
 YEL
 WH121
 BLK
 W111



PT101

I PT C.B

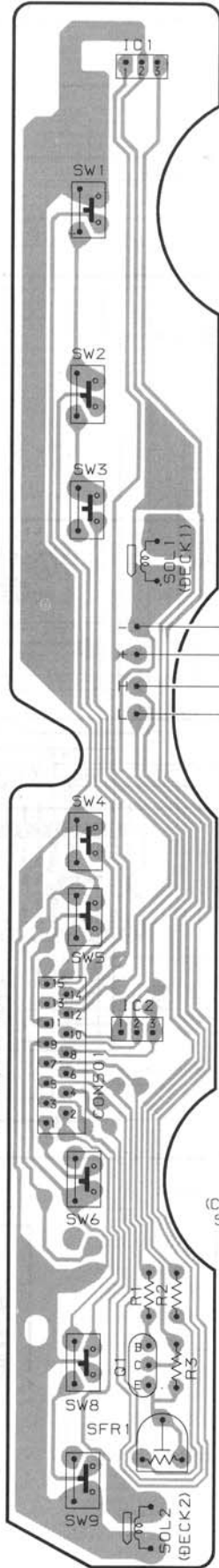


1 2 3 4 5 6 7

A
B
C
D
E
F
G
H
I
J

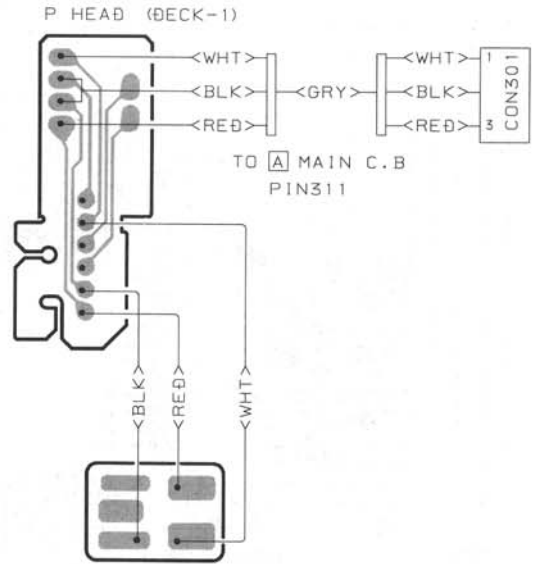


J DECK C. B.

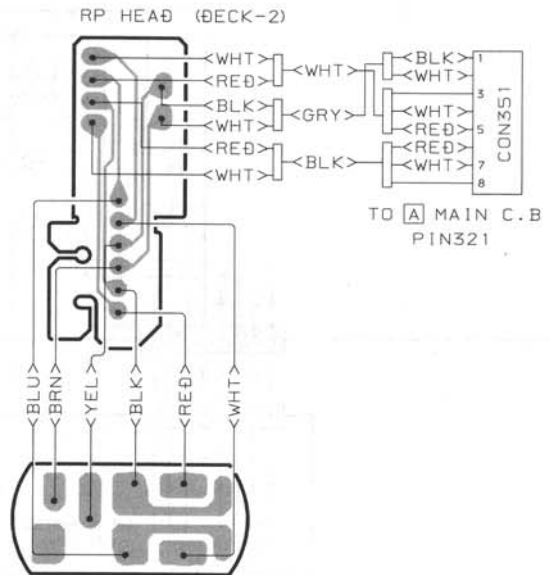


- (CST1) SW1
- (CAM1) SW2
- (CROM1) SW3
- (DECK MOTOR) M1
- (REA2) SW4
- (CROM2) SW5
- (CST2) SW6
- (CAM2) SW8
- (REB2) SW9

K HEAD-1 C. B.

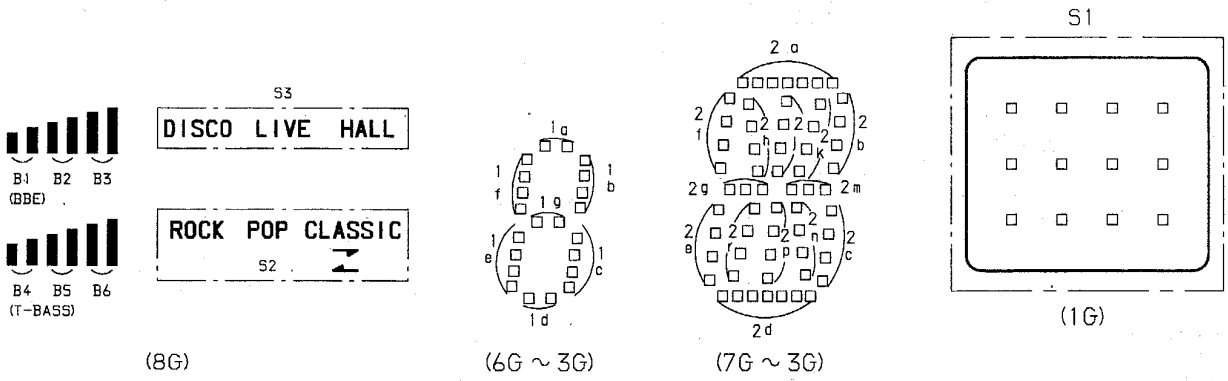
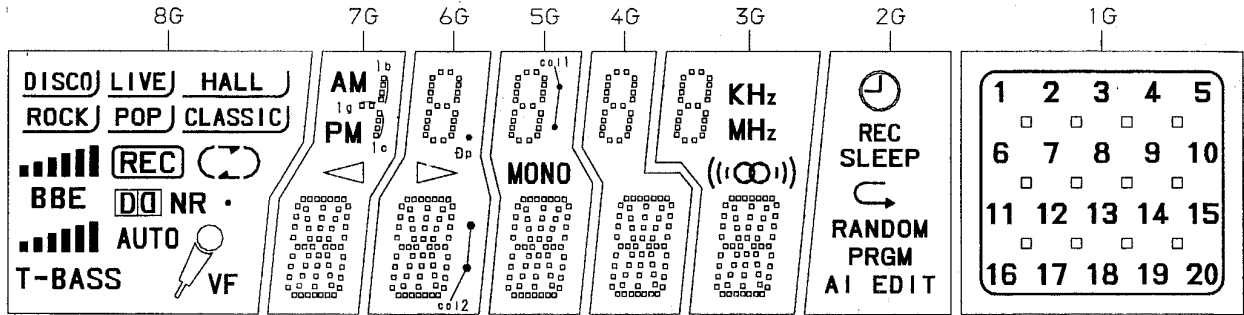


L HEAD-2 C. B.



FL GRID ASSIGNMENT & ANODE CONNECTION

FL,8-BT-194GK
GRID ASSIGNMENT

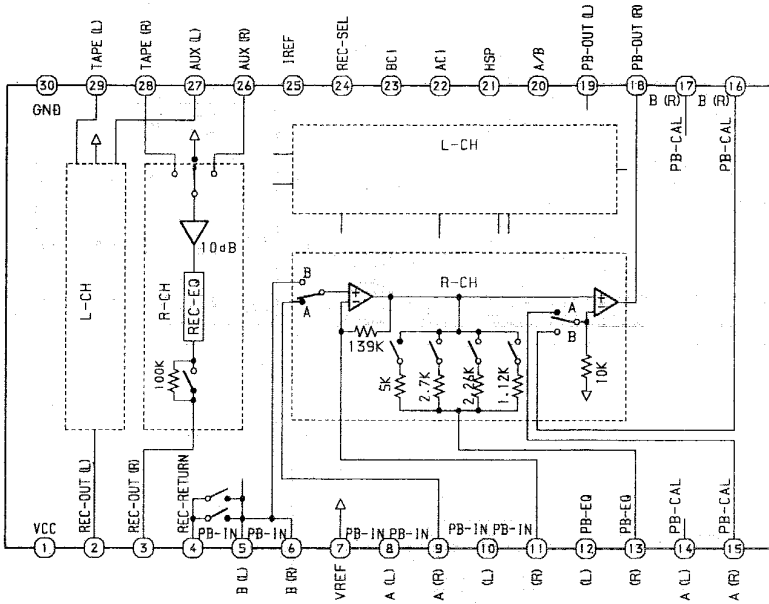


ANODE CONNECTION

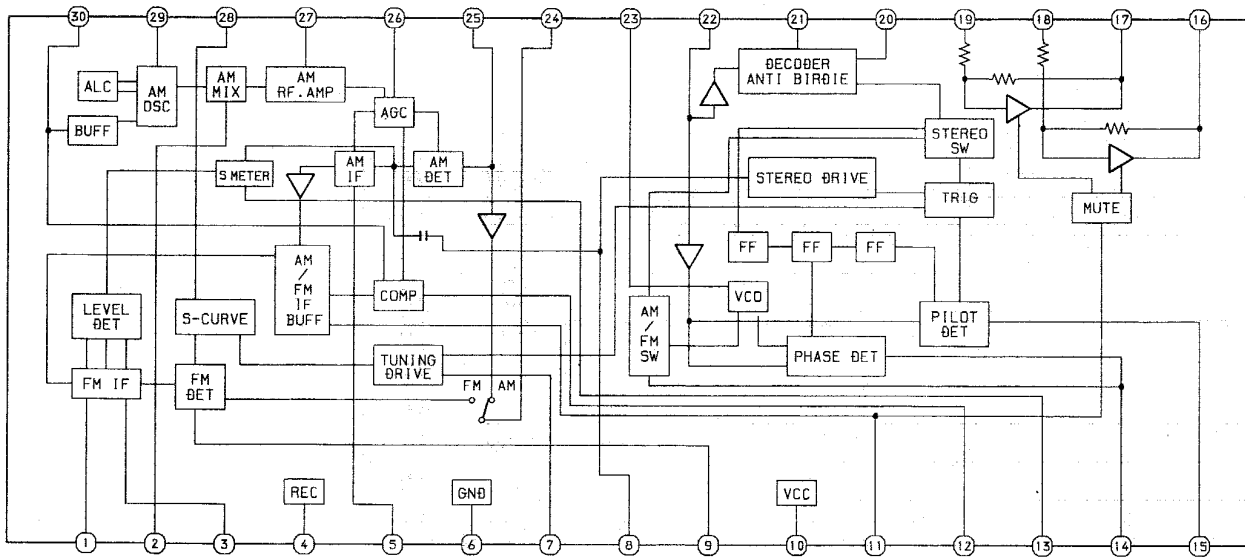
	8G	7G	6G	5G	4G	3G	2G	1G
P1	☾	2d	2d	2d	2d	2d	SLEEP	20
P2	T-BASS	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	RANDOM	19
P3	BBE	2n	2n	2n	2n	2n	↶	18
P4	⚡VF	2r	2r	2r	2r	2r	⊖	17
P5	☽	2c	2c	2c	2c	2c	REC	16
P6	AUTO	2e	2e	2e	2e	2e	—	15
P7	○	2m	2m	2m	2m	2m	—	14
P8	B2	2g	2g	2g	2g	2g	PRGM	13
P9	B3	2f	2f	2f	2f	2f	AI	12
P10	⏮ NR	2b	2b	2b	2b	2b	EDIT	11
P11	(DISCO)	2k	2k	2k	2k	2k	—	10
P12	(LIVE)	2h	2h	2h	2h	2h	—	9
P13	(HALL)	2a	2a	2a	2a	2a	—	8
P14	(ROCK)	—	co12	co11[上]	—	KHz	—	7
P15	(POP)	—	▷	MONO	—	MHz	—	6
P16	(CLASSIC)	—	∅p	co11[下]	—	—	—	5
P17	REC	◁	1d	1d	1d	1d	—	4
P18	B1	—	1e	1e	1e	1e	—	3
P19	B2	AM	1c	1c	1c	1c	—	2
P20	B3	1g	1g	1g	1g	1g	—	1
P21	B4	1b, 1c	1f	1f	1f	1f	—	S1
P22	B5	—	1b	1b	1b	1b	—	—
P23	B6	PM	1a	1a	1a	1a	—	—
P24	—	—	—	—	—	—	—	—

IC BLOCK DIAGRAM - 3

IC, HA12185NT



IC, LA1836



IC DESCRIPTION

IC, TC9284BF

Pin No.	Pin Name	I/O	Description
1	GNDA	-	Analog GND terminal .
2	RO	O	R-channel in-phase output .
3	\overline{RO}	O	R-channel out of phase output .
4	VDDA	-	D/A convertor supply terminal .
5	\overline{LO}	O	L-channel in-phase output .
6	LO	O	L-channel out of phase output .
7	GNDA	-	D/A convertor ground terminal .
8	$\overline{TEST3}$	I	Test terminal .
9	$\overline{TEST4}$	I	Test terminal .
10	$\overline{TEST5}$	I	Test terminal .
11	SBOK	O	Subcode Q data CRC check data output terminal . OK when "H". (Not used)
12	VDDD	-	Digital supply terminal .
13	GNDD	-	Digital ground terminal .
14	BUS0	I/O	Command and data send / receive I / O terminal .
15	BUS1		
16	BUS2		
17	BUS3		
18	\overline{CCE}	I	Chip enable signal input terminal for command and data send / receive . Bus line active when "L" .
19	BUCK	I	Command and data send / receive clock input terminal .
20	PFCK	O	Playback data read clock output terminal . (Not used)
21	\overline{RST}	I	Reset input terminal . Internal system reset when "L" .
22	SUBSYC	O	Subcode synchronisation terminal . (Not used)
23	SUBD	O	Subcode P-W output terminal . (Not used)
24	CLCK	I	Subcode P-W data read-out clock input terminal .
25	VDDD	-	Digital supply terminal .
26	GNDD	-	Digital ground terminal .
27	DFCT	O	Defect detection signal output terminal . VREF when a defect signal is detected; Normally HiZ . (Not used.)
28	TEL2	O	Tracking gain adjustment analog switch output terminal . VREF or HiZ .
29	TEL1		
30	TGUL	O	Analog switch output terminal for switching the low range phase compensator of the tracking servo loop . HiZ (gain up) when shock signal is detected; VREF when gain up .
31	TGUH2	O	Analog switch output terminal for switching the middle and high range phase compensator of the tracking servo loop. HiZ (gain up) when shock signal is detected; normally VREF. TGUH1 is used when playing back in normal mode; TGUH2 when playing back in high speed mode. (TGUH2 is not used.)
32	TGUH1		
33	TKIC	O	Tracking actuator kick signal output terminal . Kicked to an external cylinder when "H"; an internal cylinder when "L" .

Pin No.	Pin Name	I/O	Description																
34	FMON	O	Feed servo ON/OFF analog switch output terminal . (Pin 35 is not used) <table border="1"> <tr> <td>Feed servo</td> <td>ON</td> <td>OFF</td> </tr> <tr> <td>FMON</td> <td>HiZ</td> <td>VREF</td> </tr> </table>	Feed servo	ON	OFF	FMON	HiZ	VREF										
Feed servo	ON	OFF																	
FMON	HiZ	VREF																	
35	TEST1	I	Test terminal .																
36	FMFB	O	Feed motor FWD/BWD operation control signal output terminal . Feed to an external cylinder when "H"; feeds to an internal cylinder when "L" .																
37	TEST	I	Test terminal. Normally "H" or open. (Not used.)																
38	DMON	O	Analog switch output terminal for switching the gain of the disk motor drive circuit .																
39	DMFC	O	Disk motor CLV servo AFC signal output terminal . <table border="1"> <tr> <td>Command</td> <td>DMFC output</td> <td>Operation</td> </tr> <tr> <td>DMFK</td> <td>H</td> <td>Motor accelerated</td> </tr> <tr> <td>DMSV</td> <td>PWM</td> <td>CLV servo ON</td> </tr> <tr> <td>DMBK</td> <td>L</td> <td>Motor decelerated</td> </tr> <tr> <td>DMOFF</td> <td>VREF</td> <td>CLV servo OFF</td> </tr> </table>	Command	DMFC output	Operation	DMFK	H	Motor accelerated	DMSV	PWM	CLV servo ON	DMBK	L	Motor decelerated	DMOFF	VREF	CLV servo OFF	
Command	DMFC output	Operation																	
DMFK	H	Motor accelerated																	
DMSV	PWM	CLV servo ON																	
DMBK	L	Motor decelerated																	
DMOFF	VREF	CLV servo OFF																	
40	DMPC	O	Disk motor CLV servo APC signal output terminal .																
41	2VREF	I	Two times reference voltage input terminal . (VREF x 2)																
42	SEL	O	Servo mode indication signal output terminal . <table border="1"> <tr> <td>SEL</td> <td>LD ON/OFF</td> <td>Focus servo</td> <td>Operation mode</td> </tr> <tr> <td>L</td> <td>OFF</td> <td>OFF</td> <td>LD OFF</td> </tr> <tr> <td>HiZ</td> <td>ON</td> <td>OFF</td> <td>Focus search</td> </tr> <tr> <td>H</td> <td>ON</td> <td>ON</td> <td>Normal play etc., (Focus servo ON:FOK)</td> </tr> </table>	SEL	LD ON/OFF	Focus servo	Operation mode	L	OFF	OFF	LD OFF	HiZ	ON	OFF	Focus search	H	ON	ON	Normal play etc., (Focus servo ON:FOK)
SEL	LD ON/OFF	Focus servo	Operation mode																
L	OFF	OFF	LD OFF																
HiZ	ON	OFF	Focus search																
H	ON	ON	Normal play etc., (Focus servo ON:FOK)																
43	FCSI	O	Focus actuator drive signal output terminal in focus search mode . <table border="1"> <tr> <td>Command</td> <td>FKIC output</td> <td>Operation</td> </tr> <tr> <td>FGASR</td> <td>H</td> <td>Lens distant from disk</td> </tr> <tr> <td>FGSS</td> <td>L</td> <td>Lens near disk</td> </tr> <tr> <td>Others</td> <td>HiZ</td> <td>Other than focus search</td> </tr> </table>	Command	FKIC output	Operation	FGASR	H	Lens distant from disk	FGSS	L	Lens near disk	Others	HiZ	Other than focus search				
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FGSS	L	Lens near disk																	
Others	HiZ	Other than focus search																	
44	FKIC	O	Focus actuator drive signal output terminal in focus gain adjustment mode . (Not used.) <table border="1"> <tr> <td>Command</td> <td>FKIC output</td> <td>Operation</td> </tr> <tr> <td>FGASR</td> <td>H</td> <td>Lens distant from disk</td> </tr> <tr> <td>FGSS</td> <td>L</td> <td>Lens near disl</td> </tr> <tr> <td>Other</td> <td>HiZ</td> <td>Other than focus gain adjustment</td> </tr> </table>	Command	FKIC output	Operation	FGASR	H	Lens distant from disk	FGSS	L	Lens near disl	Other	HiZ	Other than focus gain adjustment				
Command	FKIC output	Operation																	
FGASR	H	Lens distant from disk																	
FGSS	L	Lens near disl																	
Other	HiZ	Other than focus gain adjustment																	
45	FEL2	O	Focus gain adjustment analog switch output terminal. (Not used.)																
46	FEL1																		
47	FEI	I	Focus error signal input terminal .																
48	TESH	I	Analog switch input terminal for sample-holding of the tracking error signal .																
49	TEOF	O	Analog switch input terminal for tracking servo ON/OFF . VREF when tracking servo is OFF .																
50	SBAD	I	Sub-beam add signal input terminal .																
51	RFRP	I	RF ripple signal input terminal .																

Pin No.	Pin Name	I/O	Description								
52	VREF	I	Reference voltage input terminal . (+2.2V)								
53	RFI	I	RF signal input terminal .								
54	GNDA	-	Analog ground terminal .								
55	DTSC2	O	EFM signal negative-phase output terminal for data slice control .								
56	MONIT	O	Control terminal . (Not used.)								
57	DTSC1	O	EFM signal positive-phase output terminal for data slice control .								
58	VDDA	-	Analog power voltage terminal . (+5V)								
59	PDCNT	I	PDO output control terminal . PDO output is involuntarily set to HiZ when "L" .								
60	PDO	O	Output terminal for phase difference signal between EFM and PLCK signals .								
61	TMAX	O	TMAX signal output terminal . HiZ in system lock .								
			<table border="1"> <thead> <tr> <th>TMAX cycle</th> <th>TMAX output</th> </tr> </thead> <tbody> <tr> <td>Longer than specified cycle</td> <td>L</td> </tr> <tr> <td>Shorter than specified cycle</td> <td>H(2VREF)</td> </tr> <tr> <td>Specified cycle</td> <td>HiZ</td> </tr> </tbody> </table>	TMAX cycle	TMAX output	Longer than specified cycle	L	Shorter than specified cycle	H(2VREF)	Specified cycle	HiZ
			TMAX cycle	TMAX output							
			Longer than specified cycle	L							
Shorter than specified cycle	H(2VREF)										
Specified cycle	HiZ										
62	LPFN	I	LPF amplifier negative-phase input terminal for PLL .								
63	LPFO	O	LPF amplifier output terminal for PLL .								
64	VCOF	I	VCO filter terminal .								
65	TEXTX	I	Test terminal .								
66	HS	O	High- speed monitor output terminal . High-speed mode when "L" . (Not used.)								
67	GNDD	O	Digital ground terminal .								
68	SPDA	O	Processor status signal output terminal .								
			Correction / discrimination data, memory buffer capacity, etc. (Not used.)								
69	COFS	O	Correction system frame frequency signal output terminal. 7.35kHz (Not used.)								
70	WDCK	O	Word clock output terminal . Normally 88.2kHz . (Not used.)								
71	CHCK	O	Channel clock output terminal . Normally 44.1kHz . (Not used.)								
72	BCK	O	Bit clock output terminal . Normally 1.4112MHz . (Not used.)								
73	AOUT	O	Audio data output terminal . (Not used.)								
74	EMPH	O	Emphasis ON/OFF indication signal output terminal . emphasis on when "H" .								
75	DOUT	O	Digital OUT output terminal . (Not used.)								
76	TEST2	I	Test terminal .								
77	VDDX	-	Crystal supply terminal .								
78	X1	I	Crystal oscillator connection terminal .								
79	X0	O									
80	GNDX	-	Crystal ground terminal .								

Pin No.	Pin Name	I/O	Description
1	TPO	O	Sub-beam I-V amplifier (TP AMP) output terminal .
2	TPI	I	Sub-beam I-V amplifier (TP AMP) input terminal .
3	TNI	I	Sub-beam I-V amplifier (TP AMP) input terminal .
4	FNI	I	Main-beam I-V amplifier (FN AMP) input terminal .
5	FPI	I	Main-beam I-V amplifier (FP AMP) input terminal .
6	LDO	O	Laser diode amplifier (LD AMP) output terminal .
7	MDI	I	Monitor photo diode amplifier (MD AMP) input terminal .
8	RFN	I	RF amplifier (RF AMP) negative-phase input terminal .
9	RFO	O	RF amplifier (RF AMP) output terminal .
10	RFI	I	RF ripple signal forming circuit input terminal .
11	VREF	O	Reference voltage output terminal . (+2.1V)
12	VFRP	O	RF ripple signal output terminal .
13	SBAD	O	Scratch detection signal output terminal .
14	FEB	I	Focus error balance adjustment input terminal .
15	FEO	O	Focus error amplifier (FE AMP) output terminal .
16	SEL	I	Analog switch control signal input terminal .
17	VEE	-	Power terminal . (GND)
18	FSN	I	Focus output amplifier (FS AMP) negative-phase input terminal .
19	FSO	O	Focus output amplifier (FS AMP) output terminal .
20	COSC	O	Capacitor connection terminal for focus search signal generation .
21	OSCI	I	Built-in power supply control input terminal for focus search signal generation .
22	GND	-	GND
23	VCC	I	Power supply terminal . (+5V)
24	DMEP	I	Disk motor amplifier (DM AMP) positive-phase input terminal .
25	DMEN	I	Disk motor amplifier (DM AMP) negative-phase input terminal .
26	DMEO	O	Disk motor amplifier (DM AMP) output terminal .
27	DMPO	O	Disk motor drive amplifier (DM AMP) output terminal . (Not used.)
28	PVR	I	Drive amplifier reference voltage input terminal .
29	FMPO	O	Feed motor drive amplifier (FMP AMP) output terminal . (Not used)
30	FMEO	O	Feed motor drive amplifier (FM AMP) output terminal .
31	FMEN	I	Feed motor amplifier (FM AMP) negative-phase input terminal .
32	FMEP	I	Feed motor amplifier (FM AMP) positive-phase input terminal .
33	FAPO	O	Focus actuator drive amplifier (FAP AMP) output terminal . (Not used)
34	2VRO	O	2VREF amplifier (2VREF AMP) output terminal .
35	2VRP	I	2VREF amplifier (2VREF AMP) positive-phase input terminal .
36	2VRN	I	2VREF amplifier (2VREF AMP) negative-phase input terminal .
37	TS2O	O	Tracking servo amplifier 2 (TS2 AMP) output terminal .
38	TS2N	I	Tracking servo amplifier 2 (TS2 AMP) negative-phase input terminal .
39	TS2P	I	Tracking servo amplifier 2 (TS2 AMP) positive-phase input terminal .
40	TS1O	O	Tracking servo amplifier 1 (TS1 AMP) output terminal .

Pin No.	Pin Name	I/O	Description
41	TS1N	I	Tracking servo amplifier 1 (TS1 AMP) negative-phase input terminal .
42	TS1P	I	Tracking servo amplifier 1 (TS1 AMP) positive-phase input terminal .
43	TSO	O	Tracking output amplifier (TS AMP) output terminal .
44	TSN	I	Tracking output amplifier (TS AMP) negative-phase input terminal .

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	$\overline{\text{FM}} / \text{AM}$	O	Output "L" or "H" as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <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	$\overline{\text{MW}}$	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <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	$\overline{\text{TUNE}}$	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.																								

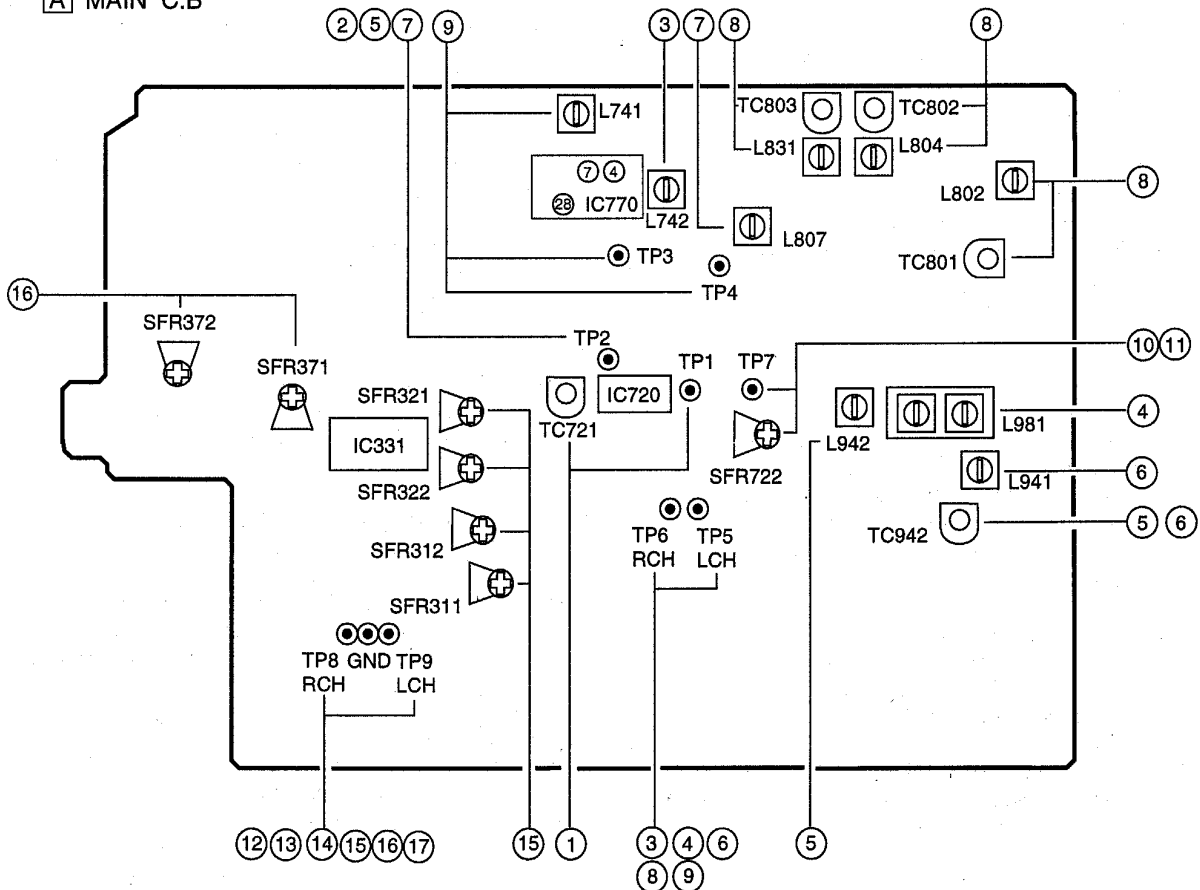
Pin No.	Pin Name	I/O	Description
1~7	G2 ~G8	O	FL display grid output.
8	VDD	-	Power supply terminal. (+5.5V)
9~12	IO BUS3~IO BUS0	I/O	CD/Front μ -con command / data bus line.
13	$\overline{\text{O-CCE}}$	O	Chip enable signal input terminal for command & data send / receive.
14	O-BUCK	O	Command & data send / receive clock input terminal.
15	$\overline{\text{I-SURR MUTE}}$	I	"L" input DSP, PROLOGIC off.
16	$\overline{\text{O-DSP-CE}}$	O	DSP data latch strobe output.
17	$\overline{\text{RESET}}$	I	System reset input.
18	$\overline{\text{O-POWER}}$	O	System power supply ON/OFF output.
19	$\overline{\text{O-MUTE}}$	O	System mute ON/OFF output.
20	AVSS	-	GND.
21	$\overline{\text{O-KSCAN}}$	O	Switch scan timing output.
22	I-MS	O	DECK MS detected A/D input.
23	I-CD SW	I	CD tray OPEN / CLOSE switch signal.
24	$\overline{\text{I-HOLD}}$	I	When AC power is not supplied, the controller is held. Clock stop & memory maintain.
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	-	A/D converter power supply terminal.
30	AVREF	I	A/D converter reference voltage.
31	I-TMBASE	I	Input a reference clock signal (8Hz) to the clock from PLL IC (LC72131).
32	NC	-	Not used.
33	VSS	-	GND.
34	X1	-	4.19MHz oscillator circuit.
35	X2	-	
36	$\overline{\text{O-C-SHIFT}}$	O	Center frequency switch.
37	NC	-	Not used.
38	$\overline{\text{O-PLL-CE}}$	O	Chip enable output for tuner PLL IC (LC72131).
39	O-DATA	O	Serial data to main board.
40	O-CLOCK	O	Clock signal to main board.
41	$\overline{\text{O-FSTB}}$	O	Front shift register data latch strobe output.
42	$\overline{\text{O-MSTB}}$	O	Main shift register data latch strobe output.
43	$\overline{\text{O-HSP}}$	O	Deck motor high speed ON/OFF output.
44	$\overline{\text{O-REC SEL}}$	O	Tape / Aux recording selection.
45	$\overline{\text{I-TUNE/IFC}}$	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.
47	$\overline{\text{I-RMC}}$	I	System remote controller input.
48	IC	-	Internally connected to Vss.
49	$\overline{\text{O-SOL2}}$	O	DECK 2 solenoid ON/OFF output.
50	$\overline{\text{O-SOL1}}$	O	DECK 1 solenoid ON/OFF output.

Pin No.	Pin Name	I/O	Description
51	$\overline{\text{O-MOTOR}}$	O	DECK motor ON/OFF output.
52	VDD	-	Power supply terminal. (+5.5V)
53	P23/CST1	I/O	FL display segment output / Deck 1 cassette switch input.
54	P24/CAM1	I/O	FL display segment output / Deck 1 cam switch input.
55	P22/AUTO1	I/O	FL display segment output / Deck 1 auto stop signal input.
56	P21/AUTO2	I/O	FL display segment output / Deck 2 auto stop signal input.
57	P20/CAM2	I/O	FL display segment output / Deck 2 cam switch input.
58	P19/REB	I/O	FL display segment output / Deck 2 side B Rec switch input.
59	P18/CST2	I/O	FL display segment output / Deck 2 cassette switch input.
60	P17/REA	I/O	FL display segment output / Deck 2 side A Rec switch input.
61	P16/LW	I/O	FL display segment output / Long wave select input.
62	P15/10K STEP	I/O	FL display segment output / AM 10k step selection input.
63	P14/FM WIDE	I/O	FL display segment output / FM wide select input.
64	P13/SW	I/O	FL display segment output / Short wave select input.
65	P12/AMST	I/O	FL display segment output / AM stereo select input.
66	P11/OIRT	I/O	FL display segment output / OIRT select input.
67	P10	O	FL display segment output.
68~70	P1~P3	O	FL display segment output.
71	VLOAD	-	Negative pull down voltage.
72~77	P4~P9	O	FL display segment output.
78	O-CLOSE	O	CD tray close output.
79	O-OPEN	O	CD tray open output.
80	G1	O	FL display grid output.

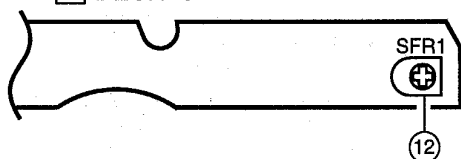
Pin No.	Pin Name	I/O	Description
1	LLI	I	Lch BPF in.
2	LBPF	O	Lch BPF feed back out.
3	RLI	I	Rch BPF in.
4	RBPF	O	Rch BPF feed back out.
5	LT	O	Lch selector #1 out.
6	RT	O	Rch selector #1 out.
7	LIN	I	Lch signal input.
8	RIN	I	Rch signal input.
9	HOLDC	I	Auto input balance control.
10	VCC	-	Power supply.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

ELECTRICAL ADJUSTMENT - 1 <TUNER / DECK>

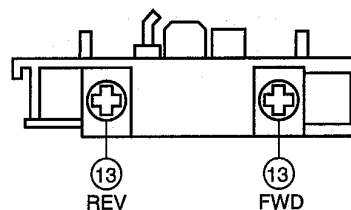
A MAIN C.B



J 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. AM IF Adjustment
 Settings : • Test point : TP5, TP6
 • Adjustment location : L742 450kHz
 Method : Set to MW 999kHz and adjust L742 so that the test point becomes maximum.
4. MW Tracking Adjustment
 Settings : • Test point : TP-5, TP-6
 • Adjustment location :
 L981 999kHz
 Method : Set to MW 999kHz and adjust L981 so that the test point becomes maximum.
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

< DECK SECTION >

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 87.5MHz & 108MHz and adjust L807 so that test point is more than 1.5V (87.5MHz), and $8.0V \pm 0.05V$ (108MHz).

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 0.01V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

11. Auto Stop Level Check

FM
Settings : • Test point : TP7
• Input level : Variable

Method : Set to FM 98.0MHz and check that the test point is $20 \text{ dB} \pm 5 \text{ dB}$.

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. REC/PB Sensitivity Check

Settings : • Test tape : TTA-602
• Test point : TP8, TP9
• Input signal : 1kHz (LINE IN)

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 signals and check that the output is $17\text{mV} \pm 3\text{dB}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

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

S/N 50dB Quieting sensitivity :
34dB \pm 5dB
[at 87.5 / 98.0 / 108.0MHz]

Signal to noise ratio : More than 59dB(STEREO)
More than 60dB(MONO)
[at 98.0MHz]

Distortion : Less than 2.0% (STEREO)
Less than 1.3% (MONO)
[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 999kHz]
50 ~ 62dB
[at 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 : 59 ~ 69dB (144kHz)
(S/N 20dB) 57 ~ 67dB (198kHz)
55 ~ 65dB (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)
Less than 150mV
(CrO₂, SP OUT 2V)

Noise level (REC/PB) : Less than 25mV/12mV
(NORM, SP OUT 2V, Dolby OFF linear
/ WTD)
Less than 18mV/10mV
(CrO₂, SP OUT 2V, Dolby OFF linear
/ WTD)

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

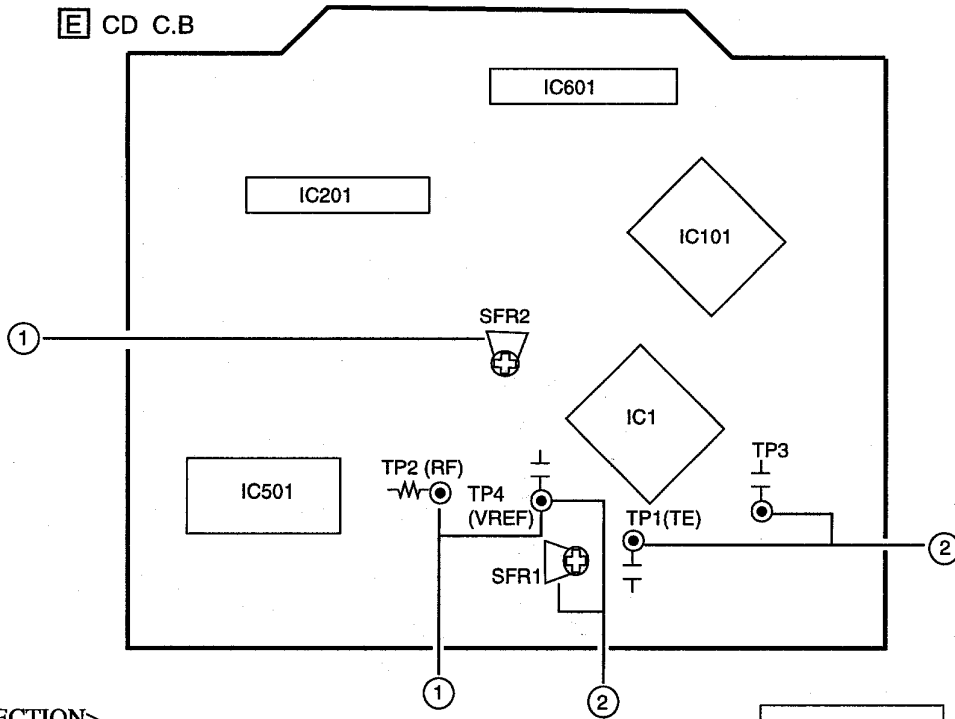
Channel separation : More than 40dB
(1kHz, 0VU)

Erasing ratio : More than 60dB
(at 125Hz, 10VU)

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

ADJUSTMENT - 2 <CD>

E CD C.B



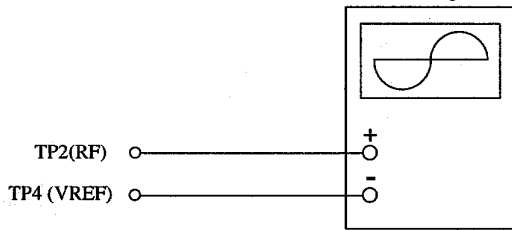
<CD SECTION>

Note : Connect a probe (10:1) of the frequency counter or the oscilloscope to a test point.

1. Focus Bias Adjustment

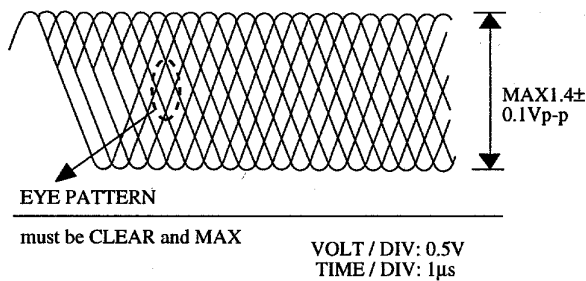
Make the focus bias adjustment when replacing and repairing the optical block.

Oscilloscope (DC range)

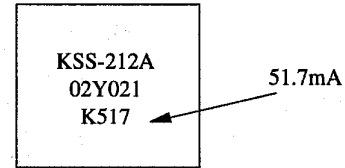


- 1) Connect an oscilloscope to the test points TP2 (RF) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR2 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.

RF signal waveform



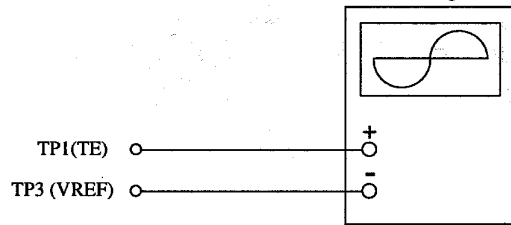
Note : The current of the laser signal can be checked with the voltages on both sides of R2 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.



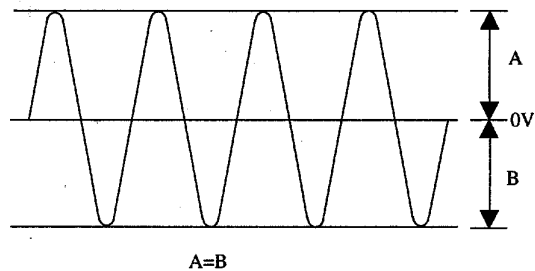
$$\text{Laser current } I_{op} = \frac{\text{Voltage across R2}}{10\Omega}$$

2. Tracking Balance Adjustment

Oscilloscope (DC range)

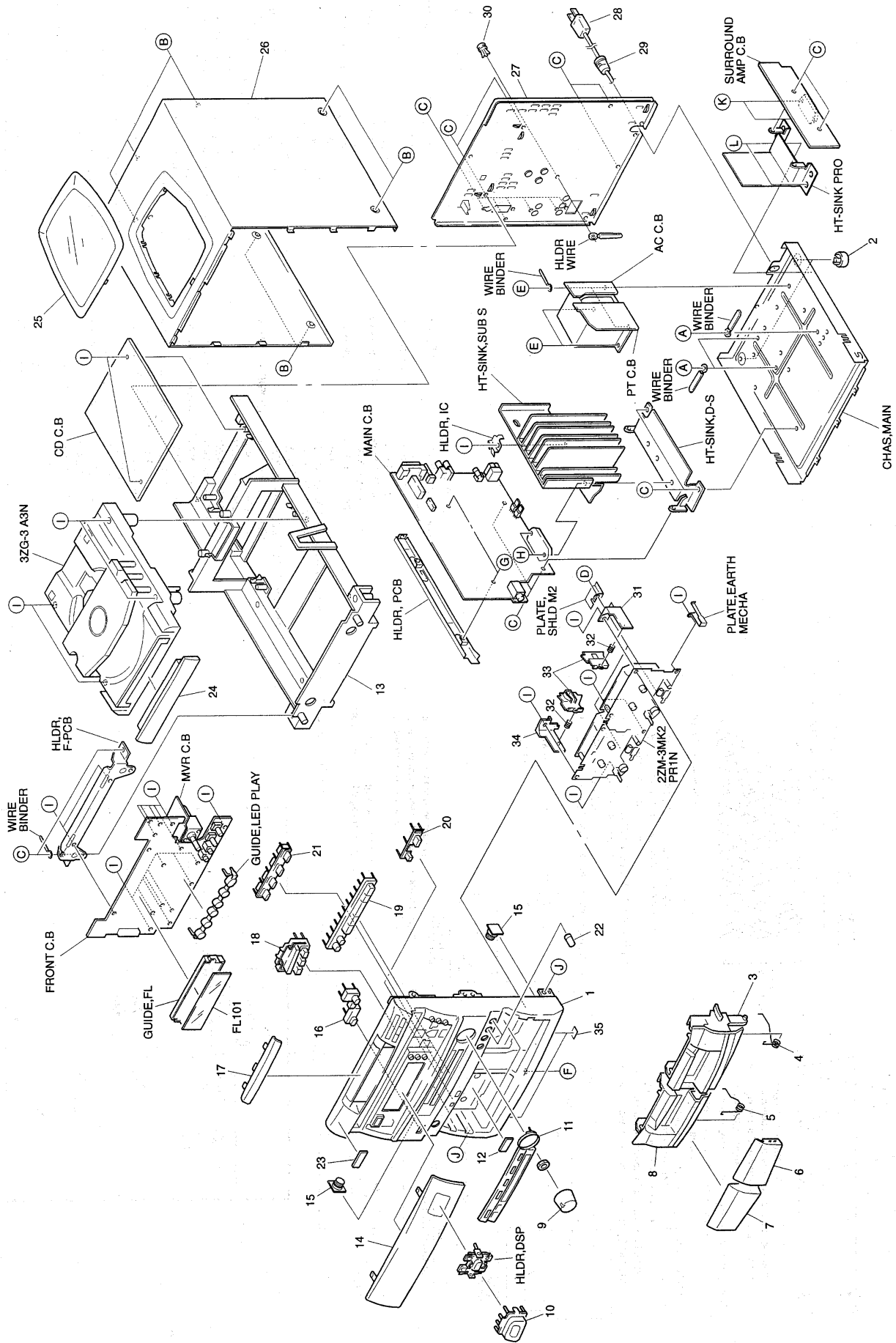


- 1) Short circuit between TP4 (VREF) and TP3.
- 2) Connect an oscilloscope to the test points TP1 (TE) and TP4 (VREF).
- 3) Turn on the power switch.
- 4) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 5) Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical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



VOLT / DIV: 200mV
TIME / DIV: 1mS

MECHANICAL EXPLODED VIEW 1/1

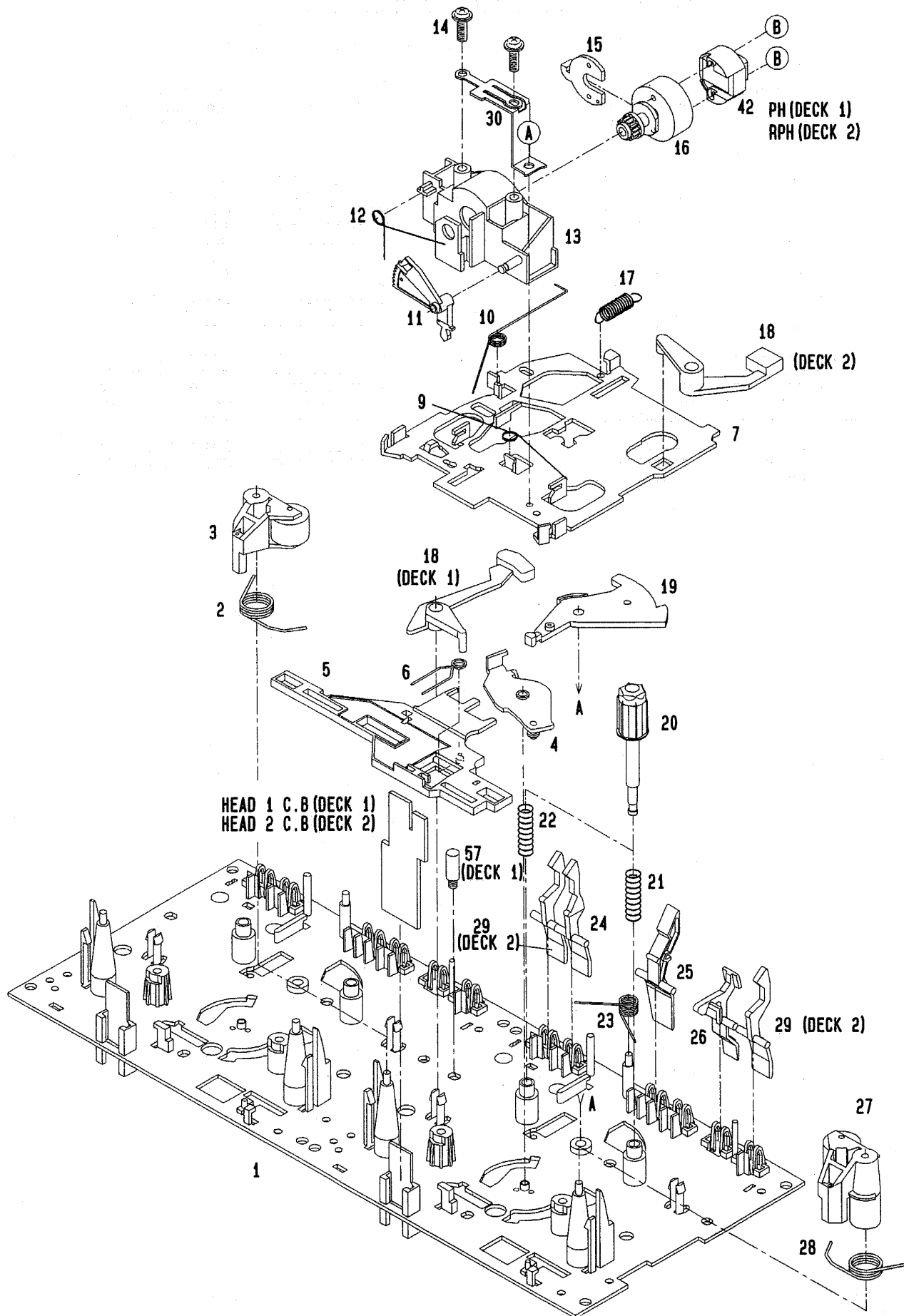


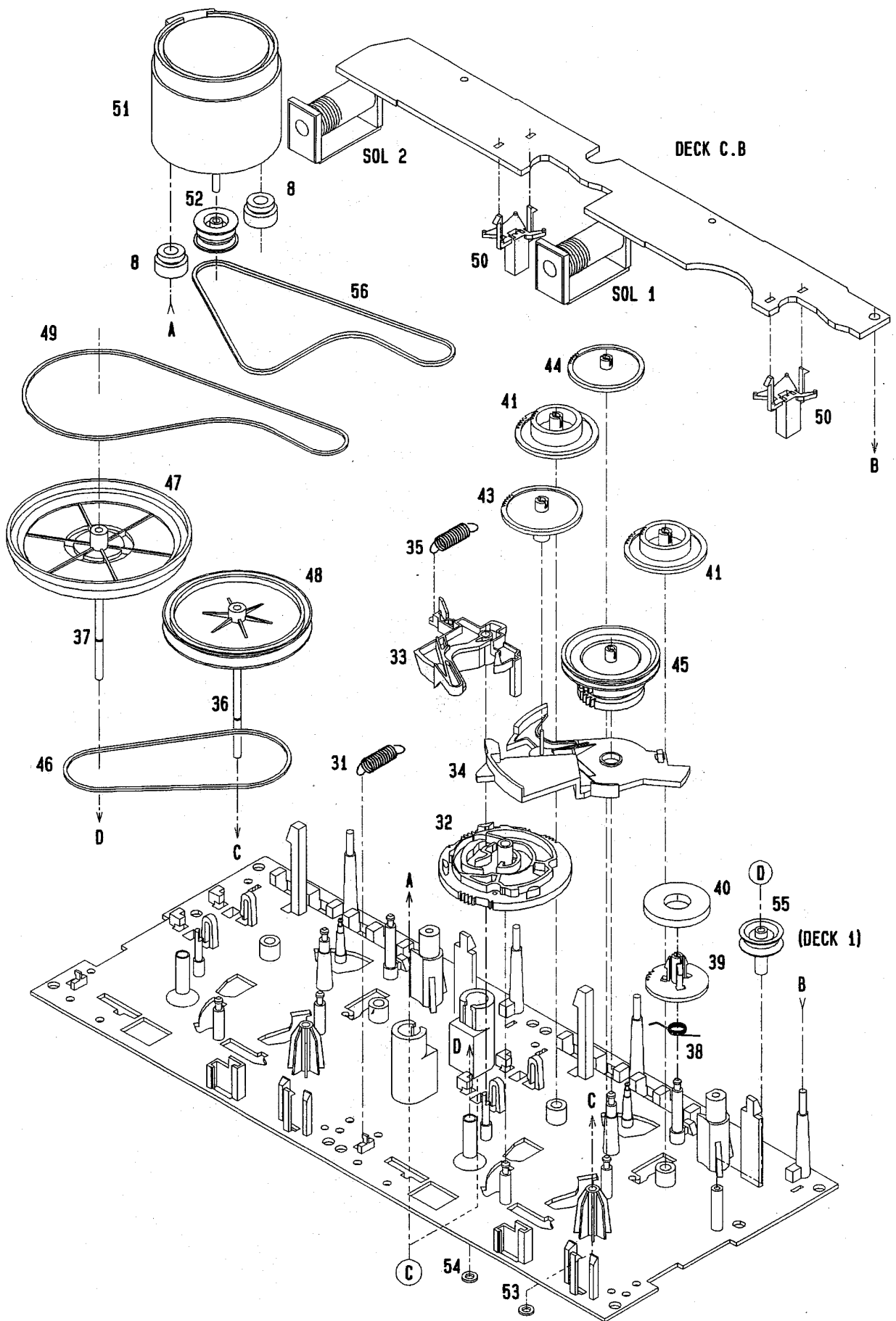
MECHANICAL PARTS LIST 1/1

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-NES-001-010		CABI,FR E (ST)	26	86-NES-002-010		CABI,STEEL S (ST)
2	87-085-221-010		FOOT, H 13.5	27	86-NES-003-010		PANEL,REAR EZSTNM
3	86-NFS-014-010		BOX,CASS R E(ST)	△ 28	87-050-079-010		AC CORD ASSY,E BLK
4	82-NF5-219-010		SPR-T,EJECT 2(SIN)	29	87-085-185-010		BUSHING,AC CORD(E) CM-22B
5	82-NF5-218-010		SPR-T,EJECT 1(SIN)	30	87-084-077-010		RIVET NYL3.5-4.5
6	86-NF5-007-010		WINDOW,CASS R	31	82-NF5-227-010		HLDR,LOCK 2N
7	86-NF5-006-010		WINDOW,CASS L	32	82-NF5-228-010		SPR-C,LOCK
8	86-NFS-013-010		BOX,CASS L E(ST)	33	82-NF5-229-010		PLATE,LOCK
9	86-NE5-014-010		KNOB,RTRY MAIN	34	82-NF5-226-010		HLDR,LOCK 1N
10	86-NES-005-010		KEY,DSP (ST)	35	80-VT1-202-010		FELT,12.5-15.5-2
11	86-NF5-009-010		PANEL,FUN	A	87-067-585-010		BVTT+4-6
12	81-532-080-010		LBL,CASS-COMPT	B	87-067-641-010		UTT2+3-8 W/O SLOT BLK
13	85-NE8-210-110		HLDR,CD	C	87-067-579-010		BVT2+3-8 W/O SLOT
14	86-NFS-020-010		WINDOW,DISPLAY	D	87-571-032-410		VIT+2-3
15	87-063-165-010		OIL-DMFR,150	E	87-078-083-010		BVTT+4-8 SWCH16A SEMS
16	86-NFS-026-010		KEY,POWER (ST)	F	87-067-716-010		BVTT+3-6 BLK
17	86-NE5-008-010		WINDOW,CD	G	87-078-084-010		BVTT+3-6 W/CONVEX
18	86-NES-004-010		KEY,CD (ST)	H	87-067-698-010		BVT2+3-18 W/O SLOT
19	86-NF5-016-010		KEY,PLAY	I	87-067-703-010		BVT2+3-10 W/O SLOT
20	86-NES-006-010		KEY,KARAOKE (ST)	J	87-591-094-410		QIT+3-6
21	86-NF5-011-010		KEY ASSY,FUN	K	87-067-581-010		BVT2+3-15 W/O SLOT
22	86-NF6-050-010		KNOB,RTRY MIC M	L	87-067-584-010		BVT2+3-6 W/O SLOT
23	82-NE6-067-010		BADGE,AIWA 30N				
24	86-NES-007-010		PANEL,TRAY (ST)				
25	84-CE4-018-010		WINDOW,CD				

TAPE MECHANISM EXPLODED VIEW 1/1



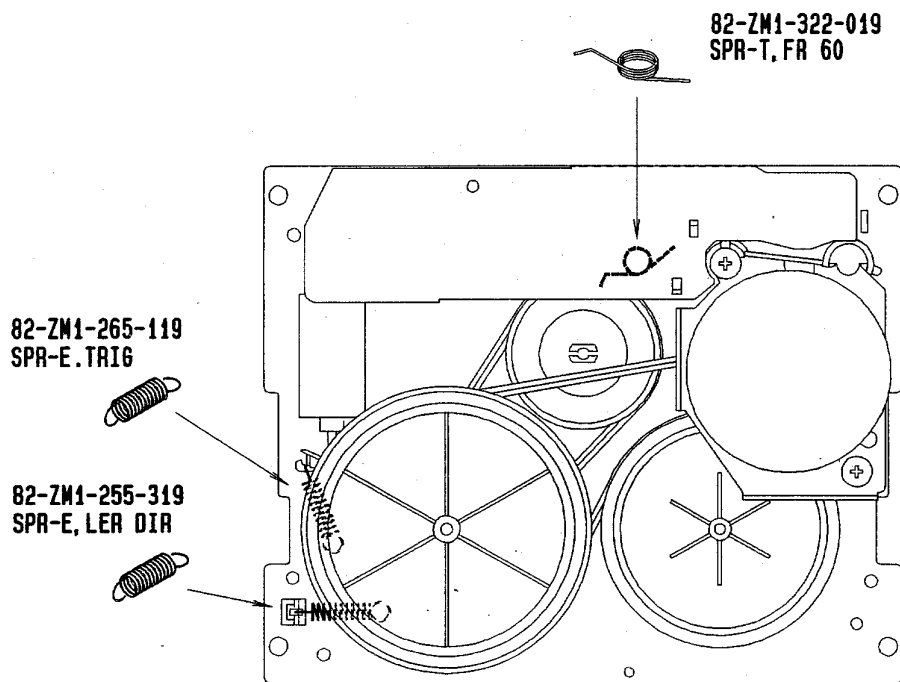
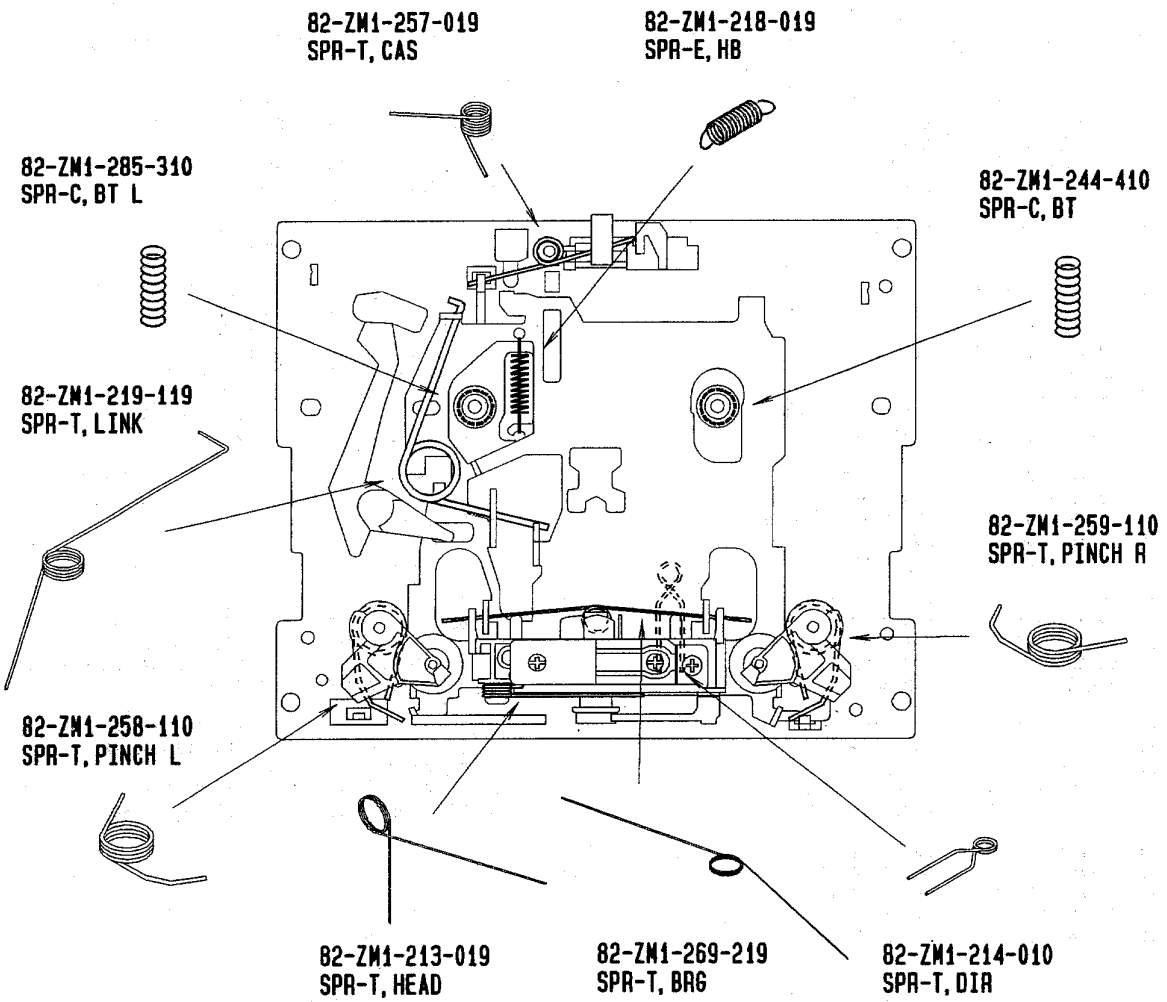


TAPE MECHANISM PARTS LIST 1 / 1

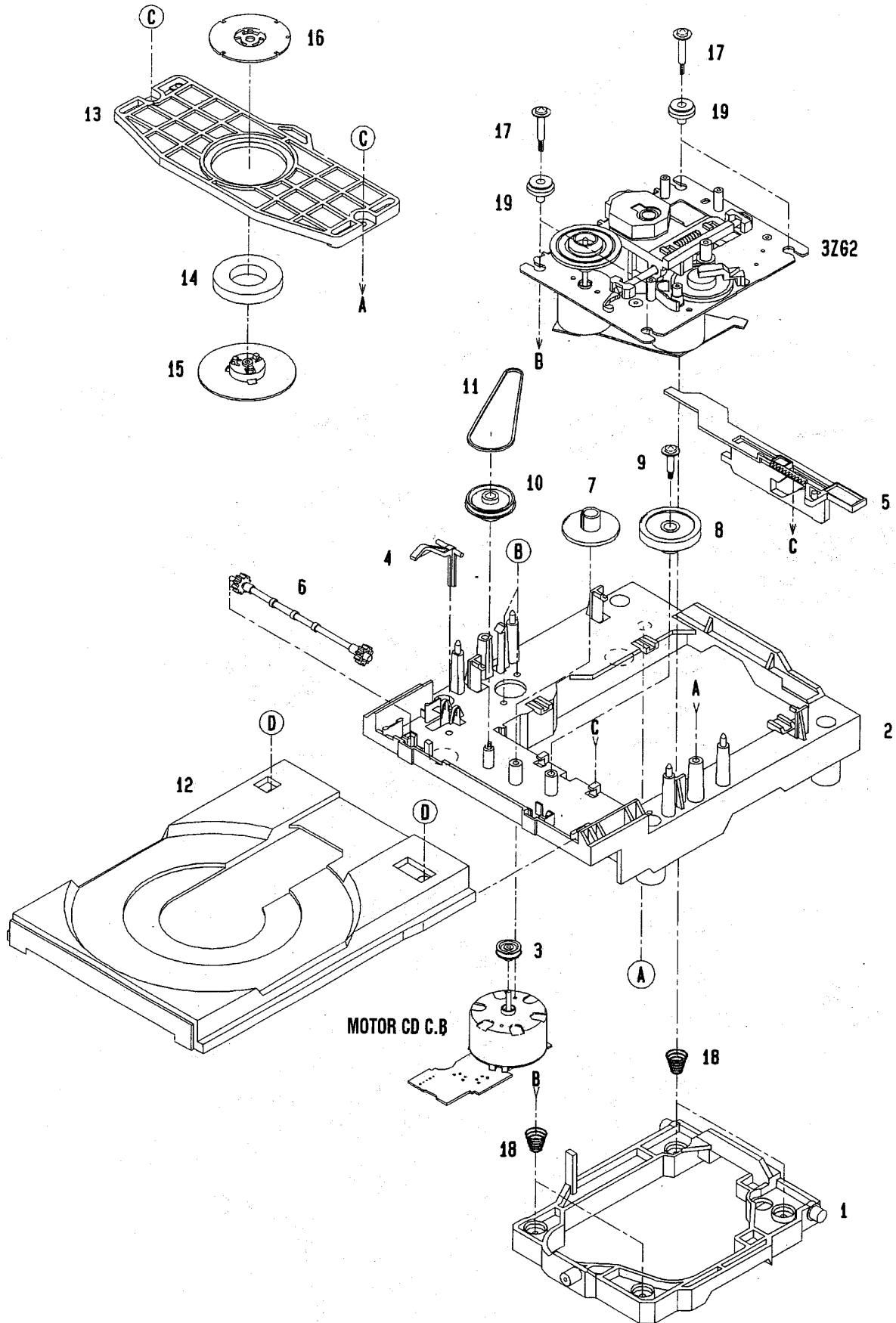
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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-ZM1-248-519		LVR ASSY, PINCH L	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE, LINK 2	38	82-ZM1-322-019		SPR-T, FR60
5	82-ZM1-266-11K		LVR, DIR	39	82-ZM1-220-219		GEAR, IDLER
6	82-ZM1-214-010		SPR-T, DIR	40	82-ZM3-616-019		RING MAGNET 4
7	82-ZM1-206-81K		CHAS, HEAD	41	82-ZM1-216-31K		GEAR, REEL
8	82-ZM3-307-019		CUSH-G, DIA3.7-8-3.2	42	87-046-355-019		HEAD, PH HADKH2529B(PH)
9	82-ZM1-269-219		SPR-T, BRG	42	87-046-356-019		HEAD, RPH HADKH5581B(RPH)
10	82-ZM1-219-119		SPR-T, LINK	43	82-ZM1-225-21K		GEAR, FR
11	82-ZM1-210-119		GEAR, H T	44	82-ZM1-226-019		GEAR, REW
12	82-ZM1-213-019		SPR-T, HEAD	45	82-ZM1-228-810		SLIP DISK ASSY
13	82-ZM1-207-619		GUIDE, TAPE	46	82-ZM1-338-010		BELT FR4
14	82-ZM1-283-310		S-SCREW, AZIMUTH	47	82-ZM1-238-81K		FLY-WHL ASSY, R (DECK 2)
15	82-ZM1-314-119		PLATE, HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY, R2 (DECK 1)
16	82-ZM1-208-119		HLDR, HEAD	48	82-ZM1-235-51K		FLY-WHL ASSY, L (DECK 2)
17	82-ZM1-218-019		SPR-E, HB	48	82-ZM3-208-61K		FLY-WHL ASSY, L2 (DECK 1)
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	49	82-ZM3-313-019		BELT R10
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-ZM3-202-019		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-ZM3-312-019		BELT P10
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-ZM1-253-519		LVR ASSY, PINCH R	B	80-ZM6-207-019		V+1.6-7
28	82-ZM1-259-110		SPR-T, PINCH R	C	82-ZM3-318-019		S-SCREW 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



CD MECHANISM EXPLODED VIEW 1/2

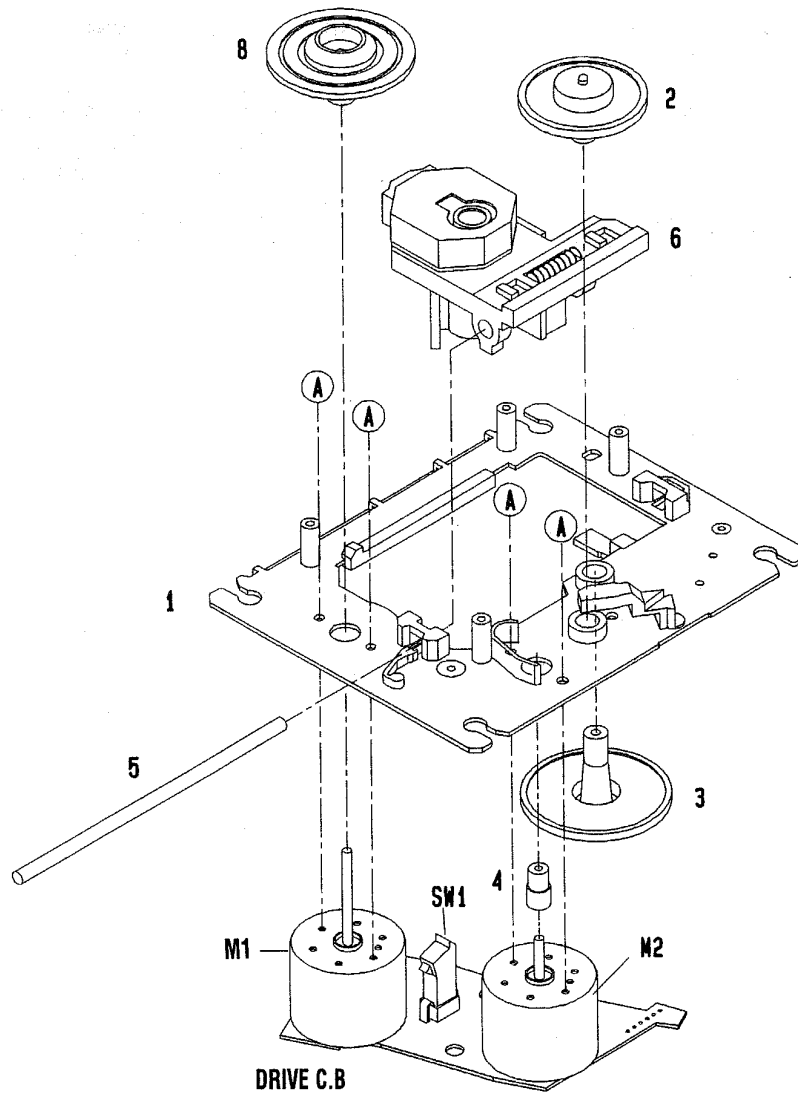


CD MECHANISM PARTS LIST 1 / 2

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	83-ZG3-202-01K		HLDR, MECH	16	83-ZG3-219-01K		PLATE, CLAMP
2	83-ZG3-228-21K		CHAS, L6	17	81-ZG1-254-019		S-SCBW, MECH HLDR
3	83-ZG3-208-01K		PULLEY, MOTOR	18	83-ZG3-216-019		SPR-C, L
4	83-ZG3-213-01K		LVR, SW	19	83-ZG3-215-019		CUSH-G, MAIN
5	83-ZG3-209-01K		CAM, SLIDE	A	87-067-945-119		VFT2+3-12 (F10)
6	83-ZG3-207-01K		GEAR, TRAY	B	87-251-071-119		U+2.6-4
7	83-ZG3-204-01K		GEAR, C	C	87-512-074-219		VFT2+2.6-8
8	83-ZG3-205-01K		GEAR, D	D	87-352-075-219		VT2+2.6-10
9	83-ZG3-217-019		S-SCREW, GEAR D				
10	83-ZG3-220-11K		GEAR, PULLEY 2				
11	83-ZG3-214-019		BELT, L				
12	83-ZG3-203-61K		TRAY, CD				
13	83-ZG3-210-01K		HLDR, CHUCK				
14	83-ZG3-602-010		RING, MAG				
15	83-ZG3-212-01K		CAP, DISC				

CD MECHANISM EXPLODED VIEW 2/2



CD MECHANISM PARTS LIST 2 / 2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-202-71K		O-SERT S ASSY,S
2	83-ZG2-204-419		GEAR, A
3	83-ZG2-205-219		GEAR, B
4	83-ZG2-220-01K		GEAR MOTOR 2
5	83-ZG2-207-119		SHAFT, SLIDE
6	87-070-109-019		KSS 212A, PICKUP UNIT
8	83-ZG2-233-019		TURN TABLE, A5
A	87-261-032-219		SCREW V+2-3

SPEAKER PARTS LIST (SX-CR423)

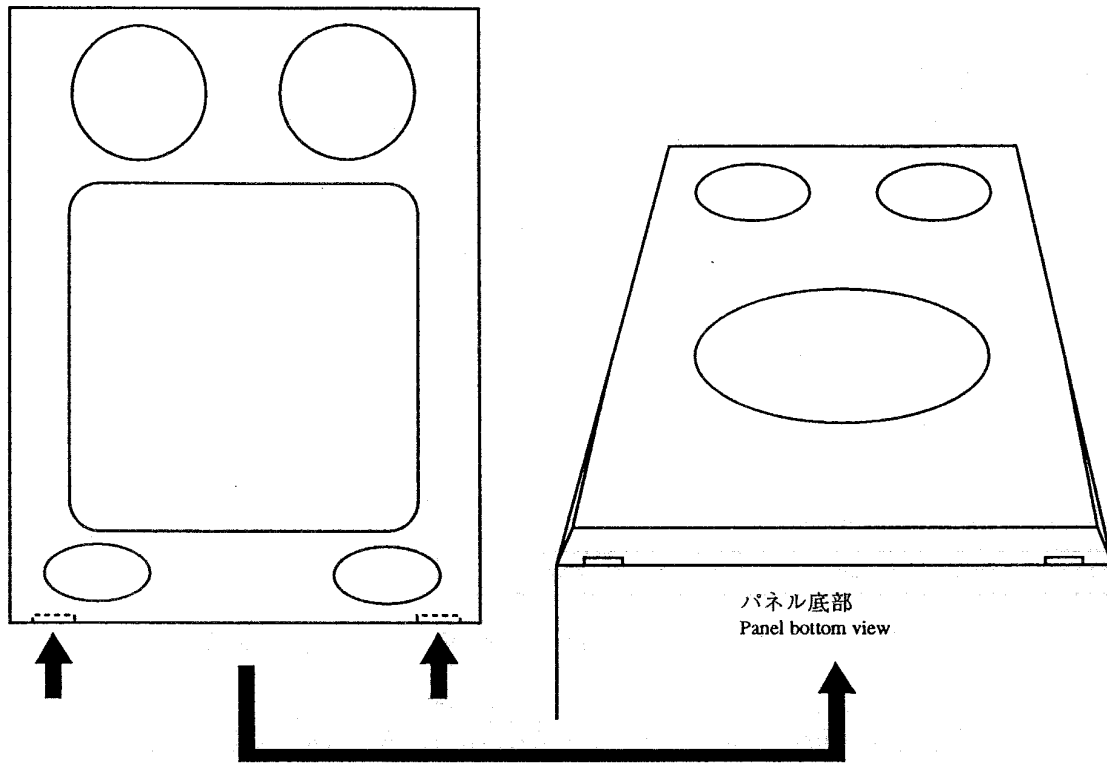
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSX-005-010		GRILLE FRAME ASSY	6	85-NSY-602-010		SPEAKER
2	85-NSX-601-010		SPEAKER	7	83-NSM-010-010		SPEAKER CORD D
3	81-VSA-010-010		SPEAKER CORD	8	85-NSY-011-010		PANEL, FRONT ST
4	85-NSX-009-010		PANEL FRONT	9	85-NSY-012-010		PANEL, REAR ST
5	85-NSY-010-010		GRILLE FRAME ASSY				

SPEAKER DISASSEMBLY INSTRUCTION (SX-NAV70)

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 (SX-NAV70)

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-012-010		PANEL FR R ST	6	86-NST-604-010		SPEAKER T 60
2	86-NST-013-010		PANEL FR L ST	7	82-NSE-610-010		CERAMIC
3	86-NST-003-010		PANEL BA	8	83-NS8-009-010		DIAPHRAGM
4	86-NST-006-010		GRILLE FRAME ASSY	9	83-096-614-010		SPEAKER CORD
5	86-NS5-608-010		SPEAKER W 140				

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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