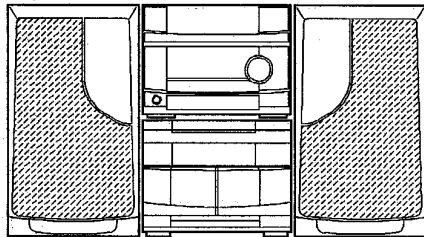


aiwa



NSX-H9 NSX-M9



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3MK2 PR2N
- BASIC CD MECHANISM: 4ZG-1WRNM

• TYPE.EZ

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

SYSTEM	AMPLIFIER	CASSETTE DECK CD PLAYER	REMOTE CONTROLLER	SPEAKERS
NSX-H9	RX-NH9	FD-NH9	RC-T501	SX-ANH9
NSX-M9	RX-NM9	FD-NH9	RC-T501	SX-NM9

MANUAL
SERVICE

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SPECIFICATIONS

STEREO RECEIVER RX-NH9/NM9

FM tuner section	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)
MW tuner section	
Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna
LW tuner section	
Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna
Amplifier section	
Power output*	Rated: 100 W + 100 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 120 W + 120 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER 210 W + 210 W
Total harmonic distortion	*without connecting to the SURROUND SPEAKERS 0.1 % (60 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO 1/MD IN: 200mV (adjustable) VIDEO 2/AUX IN: 200 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	REC OUT: 200 mV SUPER WOOFER: 2.6 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
General	
Power requirements	230 V AC, 50 Hz
Power consumption	500 W (system 520 W)
Dimensions of main unit (W × H × D)	260 × 198 × 333.5 mm
Weight of main unit	5.8 kg

COMPACT DISC/STEREO CASSETTE DECK FD-NH9

Cassette deck section	
Track format	4 tracks, 2 channels stereo
Frequency response	Metal tape: 50 Hz – 17000 Hz CrO ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	75 dB (Dolby C NR ON, Metal tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head × 1 Deck 2: Recording/playback/erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General


Dimensions (W × H × D)	260 × 203 × 321.5 mm
Weight	3.9 kg

SPEAKER SYSTEM SX-ANH9

Cabinet type	4 way, bass reflex with surround speaker (magnetic sealed type)
Speakers	Woofer: 140 mm cone type Mid-range: 80 mm cone type Tweeter: 50 mm cone type Super tweeter: 20 mm ceramic type Surround speaker: 80 mm cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	250 × 405 × 286 mm
Weight	5 kg

SPEAKER SYSTEM SX-NM9

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 160 mm cone type Tweeter: 25 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	240 × 396 × 255 mm
Weight	5.5 kg

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

MODEL NO.

RX-NH9/NM9

ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
IC				MAIN C.B			
	87-A20-069-049		C-IC,BA3842F	C101	87-016-657-099		CAP,E 3300-71
	87-A20-067-040		C-IC,M65849FP	C102	87-016-657-099		CAP,E 3300-71
	87-A20-191-019		IC,STK-419-140A	C104	87-010-235-089		CAP,E 470-16 SME
	87-017-888-089		IC,NJM455BMD	C105	87-010-235-089		CAP,E 470-16 SME
	87-017-915-089		IC,BU4094BCF	C106	87-016-285-089		CAP,E 47-100 SME
	87-017-804-019		IC,BU4052BC	C107	87-010-407-089		CAP,E 33-50 SME
	87-A20-083-019		IC,BA3835S	C108	87-010-407-089		CAP,E 33-50 SME
	87-A20-107-019		IC,BA3836	C109	87-010-263-089		CAP,E 100-10 SME 5X11
	87-017-914-019		IC,BU4094 BC	C112	87-010-382-089		CAP,E 22-25 SME
	87-A20-056-019		IC,BA3880S	C113	87-010-403-089		CAP,E 3.3-50 SME
	87-070-127-119		IC,LC72131D	C116	87-012-140-089		C-CAP,S 470P-50 CH
	87-017-714-119		IC,LA1836L	C121	87-012-368-089		C-CAP,S 0.1-50 F
	86-NT1-619-010		IC,LC 866440W-5B44	C122	87-012-368-089		C-CAP,S 0.1-50 F
	87-070-083-019		IC,GP1U281X	C123	87-012-368-089		C-CAP,S 0.1-50 F
	87-A20-105-040		C-IC,BU1921FS	C124	87-012-368-089		C-CAP,S 0.1-50 F
	87-001-792-080		C-IC,NJM2100M	C125	87-010-263-089		CAP,E 100-10 SME 5X11
				C126	87-010-189-089		C-CAP,S 8200P-50 B
				C127	87-010-189-089		C-CAP,S 8200P-50 B
				C131	87-010-186-089		C-CAP,S 4700P-50 B
				C132	87-010-186-089		C-CAP,S 4700P-50 B
TRANSISTOR							
	89-213-702-019		TR,2SB1370E				
	89-109-352-089		TR,2SA 935 Q	C152	87-010-260-089		CAP,E 47-25 SME
	87-026-610-089		TR, KTC3198GR	C163	87-018-212-080		CAP,TC U 0.022-50 Z F SA
	89-332-665-089		TR,2SC3266GR	C164	87-018-212-080		CAP,TC U 0.022-50 Z F SA
	89-337-221-389		C-TR,2SC3722K	C165	87-010-197-089		C-CAP,S 0.01-25 B
				C166	87-010-197-089		C-CAP,S 0.01-25 B
	89-324-122-089		C-TR,2SC 2412R				
	89-110-372-089		C-TR,2SA1037 R	C171	87-016-658-090		CAP,E 4700-35 SMG
	89-110-373-089		C-TR,2SA1037 S	C172	87-016-658-090		CAP,E 4700-35 SMG
	87-026-210-089		C-TR,DTC144EK T147	C173	87-012-368-089		C-CAP S 0.1-50F
	89-421-141-289		C-TR,2SD2114K,UV	C174	87-012-368-089		C-CAP S 0.1-50F
				C175	87-012-368-089		C-CAP S 0.1-50F
	87-026-609-089		TR, KTA1266GR				
	89-109-373-089		TR,2SA1037S	C176	87-012-368-089		C-CAP S 0.1-50F
	89-112-965-089		TR,2SA1296GR	C220	87-010-194-089		C-CAP,S 0.047-25 F
	87-026-228-089		C-TR DTA124EK	C221	87-010-545-089		CAP,E 0.22-50 SME
	89-113-187-089		TR,2SA1318TU	C222	87-010-545-089		CAP,E 0.22-50 SME
				C225	87-012-157-089		C-CAP,S 330P-50 CH
	87-A30-047-080		TR,CSD655E				
	89-333-266-089		C-TR,2SC3326B	C226	87-012-157-089		C-CAP,S 330P-50 CH
	87-026-214-089		TR,DTA114YS	C227	87-010-402-089		CAP,E 2.2-50 SME
	89-327-125-089		C-TR,2SC2712GR	C228	87-010-402-089		CAP,E 2.2-50 SME
	89-327-143-089		C-TR,2SC2714 (O)	C229	87-010-403-080		CAP,E 3.3-50 SME
				C230	87-010-403-080		CAP,E 3.3-50 SME
	87-026-226-089		C-TR,DTA143EK				
	87-026-211-089		C-TR,DTA144EK T147	C231	87-018-099-089		CAP,TC-U 3.9P-50 CH
	87-026-213-089		C-TR,DTC114YK	C232	87-018-099-089		CAP,TC-U 3.9P-50 CH
	89-421-143-089		C-TR,2SD2114KW	C233	87-010-196-089		C-CAP,S 0.1-25 F
	89-505-434-589		C-FET,2SK543(4/5)	C234	87-010-196-089		C-CAP,S 0.1-25 F
				C235	87-010-196-089		C-CAP,S 0.1-25 F
	87-026-269-089		TR,DTA114ES				
				C236	87-010-196-089		C-CAP,S 0.1-25 F
				C240	87-010-197-089		C-CAP,S 0.01-25 B
				C245	87-012-368-089		C-CAP,S 0.1-50 F
				C500	87-010-405-089		CAP,E 10-50 SME
				C501	87-010-213-089		C-CAP,S 0.015-25 B
DIODE							
	87-A40-116-069		DIODE,RS403L-B-D-51				
	87-A40-115-069		DIODE,SA D102				
	87-070-274-089		DIODE,1N4003 SEM	C502	87-010-213-089		C-CAP,S 0.015-25 B
	87-020-027-089		C-DIODE,1SS184	C505	87-010-544-080		CAP,E 0.1-50 SME
	87-020-125-089		C-DIODE,1SS181	C506	87-010-544-080		CAP,E 0.1-50 SME
				C507	87-010-196-089		C-CAP,S 0.1-25 F
	87-020-465-089		DIODE,1SS133	C508	87-010-196-089		C-CAP,S 0.1-25 F
	87-017-174-089		ZENER,HZS11A3L				
	87-017-146-089		ZENER,HZS30-2	C530	87-010-197-089		C-CAP,S 0.01-25 B
	87-001-290-089		ZENER,HZS5C1	C531	87-010-183-089		C-CAP,S 2700P-50 B
	87-017-148-089		ZENER,HZS6A1L	C532	87-010-194-089		C-CAP,S 0.047-25 F
				C533	87-010-196-089		C-CAP,S 0.1-25 F
	87-001-731-089		ZENER HZS6C2L	C534	87-010-263-089		CAP,E 100-10 SME 5X11
	87-001-911-089		ZENER,UTZJ4.7A (TAPG)				

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C535	87-010-404-089		CAP,E 4.7-50 SME	C814	87-010-197-089		C-CAP,S 0.01-25 B
C536	87-010-404-089		CAP,E 4.7-50 SME	C815	87-018-134-089		CAP,TC-U 0.01-16 Y
C537	87-010-545-089		CAP,E 0.22-50 SME	C816	87-018-134-089		CAP,TC-U 0.01-16 Y
C539	87-010-194-089		C-CAP,S 0.047-25 F	C817	87-010-197-089		C-CAP,S 0.01-25 B
C540	87-010-384-089		CAP,E 100-25 SME	C818	87-010-197-089		C-CAP,S 0.01-25 B
C541	87-010-404-089		CAP,E 4.7-50 SME	C819	87-010-197-089		C-CAP,S 0.01-25 B
C542	87-010-404-089		CAP,E 4.7-50 SME	C820	87-010-408-089		CAP,E 47-50 SME
C560	87-012-156-089		C-CAP,S 220P-50 CH	C821	87-010-197-089		C-CAP,S 0.01-25 B
C561	87-012-156-089		C-CAP,S 220P-50 CH	C822	87-010-197-089		C-CAP,S 0.01-25 B
C562	87-012-156-089		C-CAP,S 220P-50 CH	C823	87-010-197-089		C-CAP,S 0.01-25 B
C563	87-012-142-089		C-CAP,S 0.33-16 F	C828	87-010-196-089		C-CAP,S 0.1-25 F
C564	87-010-196-089		C-CAP,S 0.1-25 F	C829	87-010-196-089		C-CAP,S 0.1-25 F
C565	87-018-209-089		CAP,TC-U 0.1-50 F	C860	87-010-248-080		CAP,E 220-10 SME
C566	87-010-196-089		C-CAP,S 0.1-25 F	C861	87-010-196-080		C-CAP,S 0.1-25 Z F
C601	87-010-184-089		C-CAP,S 3300P-50 B	C862	87-010-182-080		C-CAP,S 2200P-50 K B
C602	87-010-184-089		C-CAP,S 3300P-50 B	C863	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C603	87-010-405-089		CAP,E 10-50 SME	C864	87-010-315-080		C-CAP,S 27P-50 J CH
C604	87-010-405-089		CAP,E 10-50 SME	C865	87-010-315-080		C-CAP,S 27P-50 J CH
C605	87-010-260-089		CAP,E 47-25 SME	C866	87-010-196-080		C-CAP,S 0.1-25 Z F
C606	87-010-101-089		CAP,E 220-16 SME	C867	87-018-127-080		CAP,TC U 470P-50 K B UP050
C607	87-010-188-089		C-CAP,S 6800P-50 B	C868	87-010-405-080		CAP,E 10-50 SME
C608	87-010-188-089		C-CAP,S 6800P-50 B	C869	87-010-197-080		C-CAP,S 0.01-25 K B
C609	87-018-127-089		CAP,TC-U 470P-50 B	C871	87-010-805-080		C-CAP,S 1-16 Z F
C610	87-018-127-089		CAP,TC-U 470P-50 B	C872	87-010-197-080		C-CAP,S 0.01-25 K B
C611	87-010-197-089		C-CAP,S 0.01-25 B	C940	87-010-197-089		C-CAP,S 0.01-25 B
C612	87-010-197-089		C-CAP,S 0.01-25 B	C942	87-010-150-080		C-CAP,S 6P-50 D CH
C613	87-010-195-089		C-CAP,S 0.068-25 F	C946	87-010-401-089		CAP,E 1-50 SME
C614	87-010-195-089		C-CAP,S 0.068-25 F	C949	87-014-049-080		CAP,PP 470P-100 J
C615	87-010-404-089		CAP,E 4.7-50 SME	C952	87-010-197-089		C-CAP,S 0.01-25 B
C616	87-010-404-089		CAP,E 4.7-50 SME	C957	87-010-315-080		C-CAP,S 27P-50 J CH
C617	87-010-404-089		CAP,E 4.7-50 SME	C958	87-010-197-080		C-CAP,S 0.01-25 K B
C618	87-010-404-089		CAP,E 4.7-50 SME	C960	87-010-196-089		C-CAP,S 0.1-25 F
C701	87-010-381-089		CAP,E 330-16 SME	CF801	87-008-423-080		FLTR, SFE10.7MS3GH-A-TF21
C702	87-010-404-089		CAP,E 4.7-50 SME	CF802	82-785-747-080		CF,MS2 GHY,R
C703	87-010-197-089		C-CAP,S 0.01-25 B	EMI901	87-008-372-080		FLTR,EMIBL01 RN1
C704	87-010-197-089		C-CAP,S 0.01-25 B	FFE801	A8-6ZA-191-030		6ZA-1 FEENM
C711	87-010-263-089		CAP,E 100-10 SME 5X11	J252	87-A60-020-019		JACK,6.3 BLK W/SW
C712	87-010-196-089		C-CAP,S 0.1-25 F	J253	87-099-802-019		JACK,PIN 3P BRW
C715	87-010-197-089		C-CAP,S 0.01-25 B	J254	87-033-240-019		TERMINAL,SP 4P32SV1-05
C716	87-010-197-089		C-CAP,S 0.01-25 B	J801	87-033-241-010		TERMINAL,ANT AJ-2039
C722	87-010-152-089		C-CAP,S 8P-50 CH	L101	87-003-383-019		COIL,1UH-S
C723	87-010-178-089		C-CAP,S 1000P-50 B	L102	87-003-383-019		COIL,1UH-S
C725	87-010-178-089		C-CAP,S 1000P-50 B	L701	87-003-293-019		COIL,TRAP MPX
C727	87-010-196-089		C-CAP,S 0.1-25 F	L702	87-003-293-019		COIL,TRAP MPX
C728	87-010-248-089		CAP,E 220-10 SME	L741	87-A50-015-019		COIL,FM DET(TOK)
C760	87-010-197-089		C-CAP,S 0.01-25 B	L742	87-A90-051-019		FLTR,CFAZ-450(TOK)
C761	87-010-196-089		C-CAP,S 0.1-25 F	L770	87-003-102-089		COIL,10UH
C770	87-010-405-089		CAP,E 10-50 SME	L832	87-003-098-089		COIL,2.2UH
C771	87-010-405-089		CAP,E 10-50 SME	L850	87-003-098-089		COIL,2.2UH
C772	87-010-194-089		C-CAP,S 0.047-25 F	L941	87-A50-020-010		COIL,ANT LW (COI)
C773	87-010-196-089		C-CAP,S 0.1-25 F	L942	87-A50-019-010		COIL,OSC LW (COI)
C774	87-010-263-089		CAP,E 100-10 SME 5X11	L981	86-NF4-665-019		AM PACK 1(TOK)
C775	87-010-405-089		CAP,E 10-50 SME	△PR106	87-026-689-080		PROTECTOR,1A 491SERIES 60V
C776	87-010-197-089		C-CAP,S 0.01-25 B	R105	87-022-600-089		RES,M/F 0.1-2W J
C777	87-010-400-089		CAP,E 0.47-50 SME	R106	87-022-600-089		RES,M/F 0.1-2W J
C778	87-010-401-089		CAP,E 1-50 SME	RY101	87-045-389-019		RELAY,OSA-SS-212DM5
C779	87-010-401-089		CAP,E 1-50 SME	RY102	87-045-382-019		RELAY,OUAZ-SH-112L
C780	87-010-197-089		C-CAP,S 0.01-25 B	SFR722	87-024-432-080		SFR,4.7K H RH063MC
C781	87-010-405-089		CAP,E 10-50 SME	TC701	87-011-253-089		TRIMER,30P LAR
C782	87-010-405-089		CAP,E 10-50 SME	TC942	87-011-253-089		TRIMER,30P LAR
C787	87-010-184-089		C-CAP,S 3300P-50 B	W304	86-NT2-655-010		CORD,FG15P
C788	87-010-184-089		C-CAP,S 3300P-50 B	X703	84-508-618-019		VIB,CER CSB 456 F15
C789	87-010-179-089		C-CAP,S 1200P-50 B	X721	87-030-372-019		VIB,XTAL 7.2MHZ
C790	87-010-179-089		C-CAP,S 1200P-50 B	X850	89-KT1-608-010		X,TAL 4.332MHZ
C791	87-010-401-089		CAP,E 1-50 SME				
C792	87-010-182-080		C-CAP,S 2200P-50 K B	FRONT C.B			
C793	87-010-189-089		C-CAP,S 8200P-50 B	C101	87-010-401-049		CAP,E 1-50 SME
C794	87-010-408-089		CAP,E 47-50 SME	C102	87-010-401-049		CAP,E 1-50 SME
C795	87-010-194-089		C-CAP,S 0.047-25 F	C103	87-010-182-089		C-CAP,S 2200P-50 B
C796	87-010-403-089		CAP,E 3.3-50 SME	C104	87-010-182-089		C-CAP,S 2200P-50 B
C801	87-018-134-089		CAP,TC-U0.01-16 Y	C105	87-010-545-049		CAP E 0.22-50 SME
C802	87-018-134-089		CAP,TC-U0.01-16 Y				

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
C106	87-010-545-049		CAP,E 0.22-50 SME	LED431	87-070-198-089		LED,SLP736A-81-S-T1
C107	87-010-993-089		C-CAP,S 0.056-25 B	LED432	87-070-198-089		LED,SLP736A-81-S-T1
C108	87-010-993-089		C-CAP,S 0.056-25 B	LED433	87-070-198-089		LED,SLP736A-81-S-T1
C109	87-012-393-089		C-CAP,S 0.22-16,R,X	LED434	87-070-198-089		LED,SLP736A-81-S-T1
C110	87-012-393-089		C-CAP,S 0.22-16,R,X	LED435	87-070-198-089		LED,SLP736A-81-S-T1
C111	87-010-401-049		CAP,E 1-50 SME	LED436	87-A40-188-089		LED,SLZ736A-17-S-T2
C112	87-010-260-049		CAP,E 47-25 SME	LED437	87-A40-188-089		LED,SLZ736A-17-S-T2
C113	87-010-405-049		CAP,E 10-50 SME	S920	87-A90-095-089		SW,TACT EVQ11G04M
C114	87-010-406-049		CAP,E 22-50 SME	S921	87-A90-095-089		SW,TACT EVQ11G04M
C115	87-010-196-089		C-CAP,S 0.1-25 F	S922	87-A90-095-089		SW,TACT EVQ11G04M
C401	87-010-196-089		C-CAP,S 0.1-25 F	S923	87-A90-095-089		SW,TACT EVQ11G04M
C402	87-010-196-089		C-CAP,S 0.1-25 F	S924	87-A90-095-089		SW,TACT EVQ11G04M
C450	87-010-112-049		CAP,E 100-16	S925	87-A90-095-089		SW,TACT EVQ11G04M
C470	87-010-112-049		CAP,E 100-16	S926	87-A90-095-089		SW,TACT EVQ11G04M
C501	87-010-322-089		C-CAP,S 100P-50 CH	S927	87-A90-095-089		SW,TACT EVQ11G04M
C502	87-010-196-089		C-CAP,S 0.1-25 F	S928	87-A90-095-089		SW,TACT EVQ11G04M
C503	87-010-196-089		C-CAP,S 0.1-25 F	S929	87-A90-095-089		SW,TACT EVQ11G04M
C504	87-010-196-089		C-CAP,S 0.1-25 F	S930	87-A90-095-089		SW,TACT EVQ11G04M
C505	87-010-196-089		C-CAP,S 0.1-25 F	S931	87-A90-095-089		SW,TACT EVQ11G04M
C506	87-010-196-089		C-CAP,S 0.1-25 F	S932	87-A90-095-089		SW,TACT EVQ11G04M
C601	87-010-196-089		C-CAP,S 0.1-25 F	S933	87-A90-095-089		SW,TACT EVQ11G04M
C602	87-010-545-049		CAP,E 0.22-50 SME	S934	87-A90-095-089		SW,TACT EVQ11G04M
C603	87-010-321-089		C-CAP,S 82P-50 CH	S935	87-A90-095-089		SW,TACT EVQ11G04M
C604	87-010-196-089		C-CAP,S 0.1-25 F	S936	87-A90-095-089		SW,TACT EVQ11G04M
C605	87-010-196-089		C-CAP,S 0.1-25 F	VR101	83-SP2-612-019		VR,10KB SQ11
C608	87-010-177-089		C-CAP,S 820P-50 SL	VR601	87-A90-124-019		VR,RTRY 10KA L20
C609	87-016-251-049		CAP,E220-16 SMG				
C610	87-010-405-049		CAP,E 10-50 SME				
C611	87-010-405-049		CAP,E 10-50 SME				
C612	87-010-406-049		CAP,E 22-50 SME				
C613	87-010-401-049		CAP,E 1-50 SME				
C615	87-010-186-089		C-CAP,S 4700P-50 B				
C801	87-010-555-049		CAP,E 100-10 GAS				
C802	87-010-074-080		CAP,E 4.7-35 5L				
C803	87-010-494-049		CAP,E 1-50 GAS				
C804	87-A10-189-049		CAP,E 220-10				
C805	87-010-196-089		C-CAP,S 0.1-25 F				
C806	87-010-196-089		C-CAP,S 0.1-25 F				
C821	87-010-312-089		C-CAP,S 15P-50 CH				
C822	87-010-180-089		C-CAP,S 1500P-50 B				
C823	87-010-498-049		CAP,E 10-16 GAS				
C824	87-010-302-080		C-CAP,S 270P-50 CH				
C825	87-010-322-089		C-CAP,S 100P-50 CH				
C901	87-010-405-049		CAP,E 10-50 SME				
C902	87-010-405-049		CAP,E 10-50 SME				
C903	87-010-408-049		CAP,E 47-50 SME				
FC001	88-904-201-219		FF-CABLE 4P 1.25				
FL801	86-NT1-636-019		FL,1J4516K				
J601	87-A60-284-019		JACK,3.5 MO(MSC)				
J602	87-A60-284-019		JACK,3.5 MO(MSC)				
L801	87-005-165-089		COIL,1uH MLAL03				
L820	87-A50-052-019		COIL,CLOCK 5.76MHZ,T1				
LED401	87-070-199-089		LED,SLP738F-81-S-T1				
LED402	87-070-199-089		LED,SLP738F-81-S-T1				
LED403	87-070-199-089		LED,SLP738F-81-S-T1				
LED404	87-070-199-089		LED,SLP738F-81-S-T1				
LED405	87-070-199-089		LED,SLP738F-81-S-T1				
LED406	87-070-199-089		LED,SLP738F-81-S-T1				
LED407	87-070-199-089		LED,SLP738F-81-S-T1				
LED408	87-070-199-089		LED,SLP738F-81-S-T1				
LED409	87-070-199-089		LED,SLP738F-81-S-T1				
LED410	87-070-199-089		LED,SLP738F-81-S-T1				
LED411	87-070-201-089		LED,SLP9118C-51-S-T1				
LED412	87-070-201-089		LED,SLP9118C-51-S-T1				
LED413	87-070-201-089		LED,SLP9118C-51-S-T1				
LED414	87-070-201-089		LED,SLP9118C-51-S-T1				
LED415	87-070-201-089		LED,SLP9118C-51-S-T1				
LED421	87-070-198-089		LED,SLP736A-81-S-T1				
LED422	87-070-198-089		LED,SLP736A-81-S-T1				
LED423	87-070-198-089		LED,SLP736A-81-S-T1				
LED424	87-070-198-089		LED,SLP736A-81-S-T1				
LED425	87-070-198-089		LED,SLP736A-81-S-T1				
				S937	87-A90-095-089		SW,TACT EVQ11G04M
				S938	87-A90-095-089		SW,TACT EVQ11G04M
				S939	87-A90-095-089		SW,TACT EVQ11G04M
				S940	87-A90-095-089		SW,TACT EVQ11G04M
				S941	87-A90-095-089		SW,TACT EVQ11G04M
				S942	87-A90-095-089		SW,TACT EVQ11G04M

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
S945	87-036-110-019		SW, PUSH SPPB 62
S946	87-A90-095-089		SW, TACT EVQ11G04M
S947	87-A90-095-089		SW, TACT EVQ11G04M
S948	87-A90-095-089		SW, TACT EVQ11G04M
S949	87-A90-095-089		SW, TACT EVQ11G04M
S950	87-A90-095-089		SW, TACT EVQ11G04M
S951	87-A90-095-089		SW, TACT EVQ11G04M
S952	87-A90-095-089		SW, TACT EVQ11G04M
S953	87-A90-095-089		SW, TACT EVQ11G04M
S954	87-A90-095-089		SW, TACT EVQ11G04M
S955	87-036-110-019		SW, PUSH SPPB 62

AC-2 C.B

△PR101	87-A90-195-089	PROTECTOR 7A125V491
△PR102	87-A90-195-089	PROTECTOR 7A125V491

AC-1 C.B

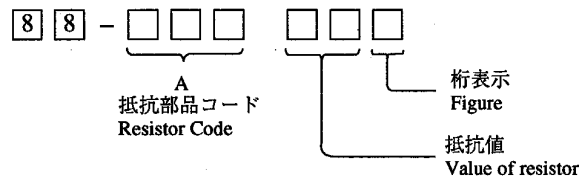
△	87-033-213-089	CLAMP FUSE SMK
△	82-304-743-019	TERMINAL 1P
△F101	87-035-191-010	FUSE, 3.15A 250V T 218
△PT103	86-NT1-608-019	PT, 6NT1-E

MOTOR C.B

C970	87-010-263-089	CAP, E 100-10 SME 5X11
C971	87-010-263-089	CAP, E 100-10 SME 5X11
M971	87-045-383-010	MOT, M9I T2

○ 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

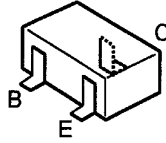
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)			抵抗コード : A Resistor Code: A	
				外形 / Form	L	W		t
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



ECB

2SA1296
2SA1318
2SC3266
2SD655
KTA1266
KTC3198



2SA1037
2SC2412
2SC2712
2SC2714
2SC3326
2SC3722
2SD2114
DTA124EK
DTA143EK
DTA144EK
DTC144EK



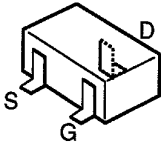
ECB

DTA114YS

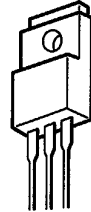


ECB

2SA935



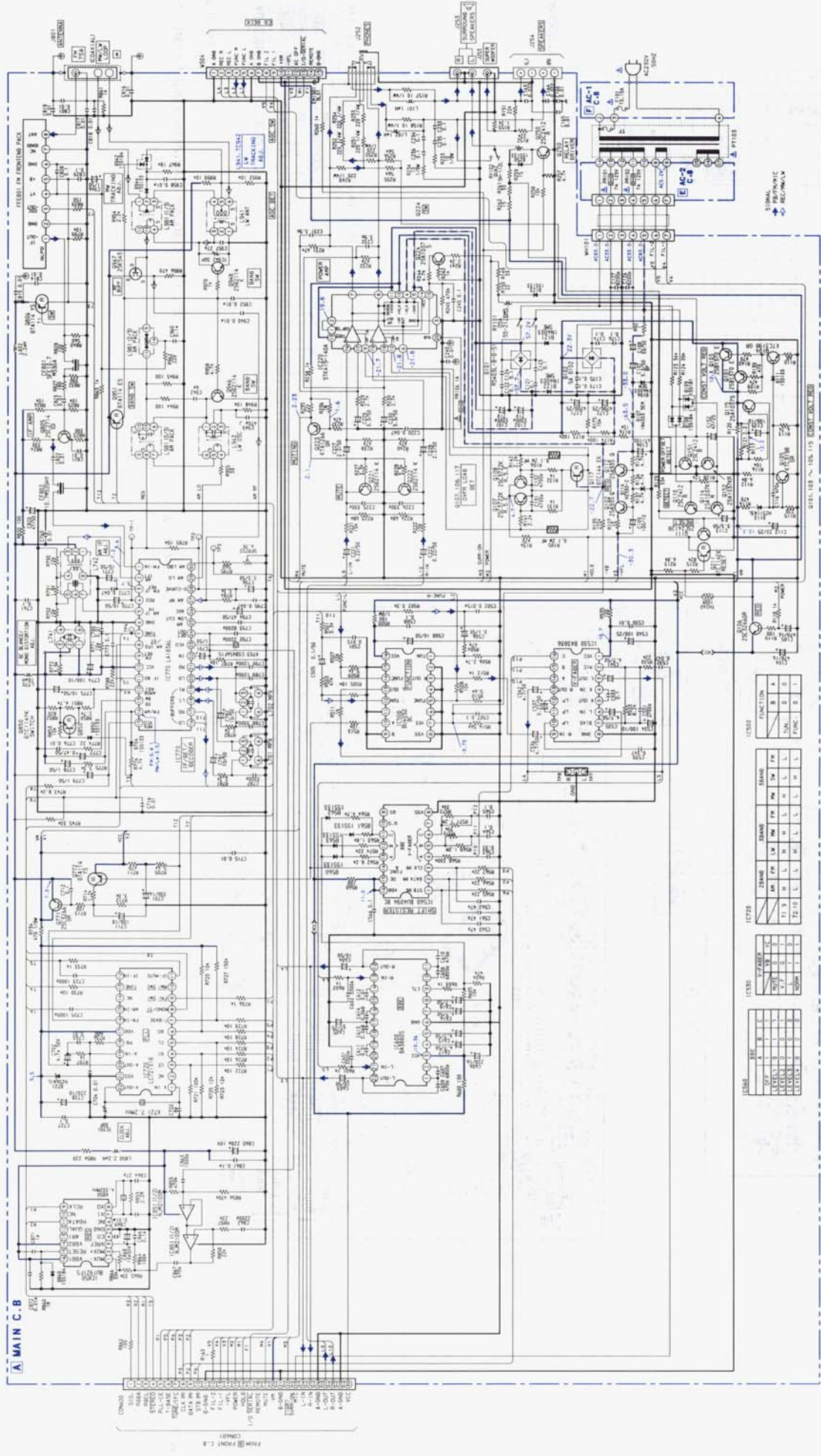
2SK543



BCE

2SB1370

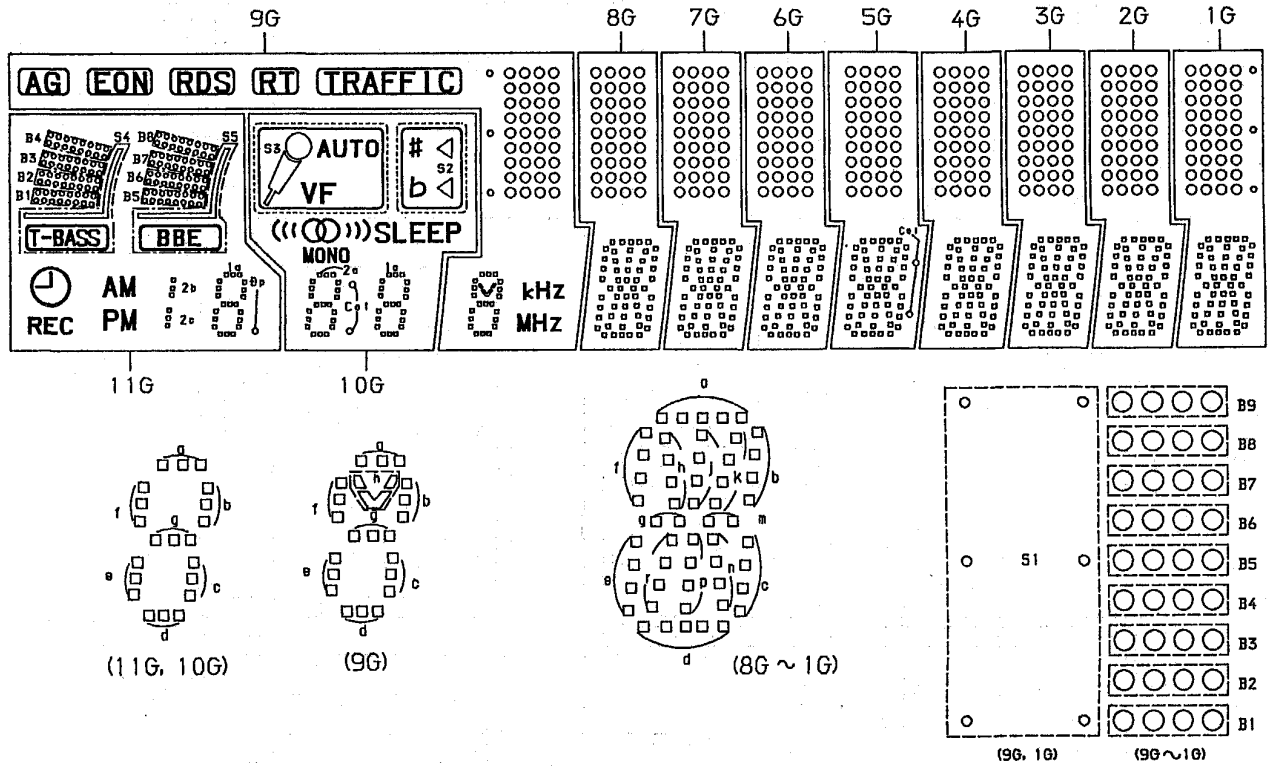
SCHEMATIC DIAGRAM-1 (MAIN)



REF	DESCRIPTION	QTY	UNIT
1000	RESISTOR	100	PCB
1001	CAPACITOR	50	PCB
1002	IC	20	PCB
1003	TRANSISTOR	10	PCB
1004	DIODE	5	PCB
1005	RELAY	3	PCB
1006	SWITCH	2	PCB
1007	CONNECTOR	1	PCB
1008	INDUCTOR	1	PCB
1009	OTHER	1	PCB

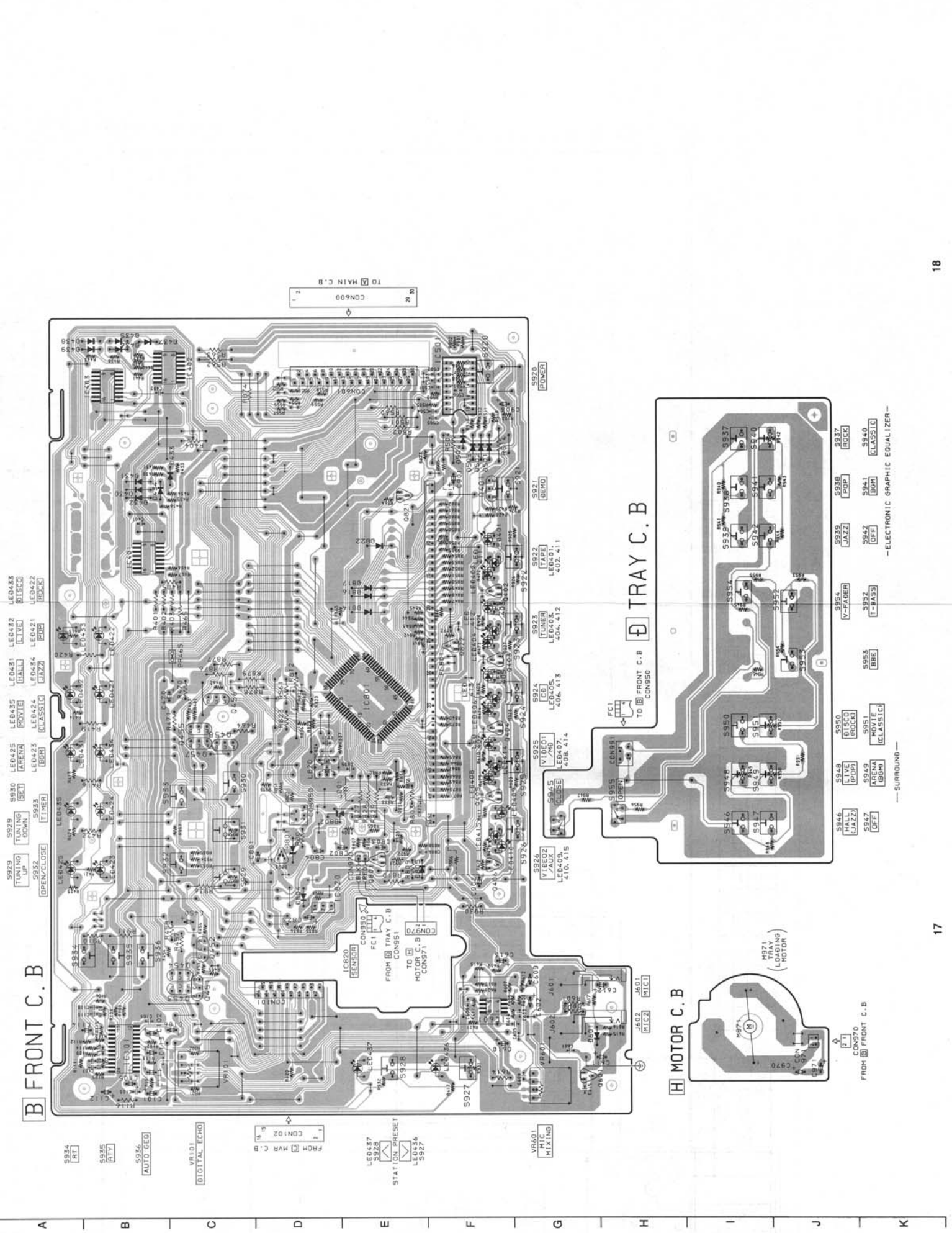
FL (BJ451GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

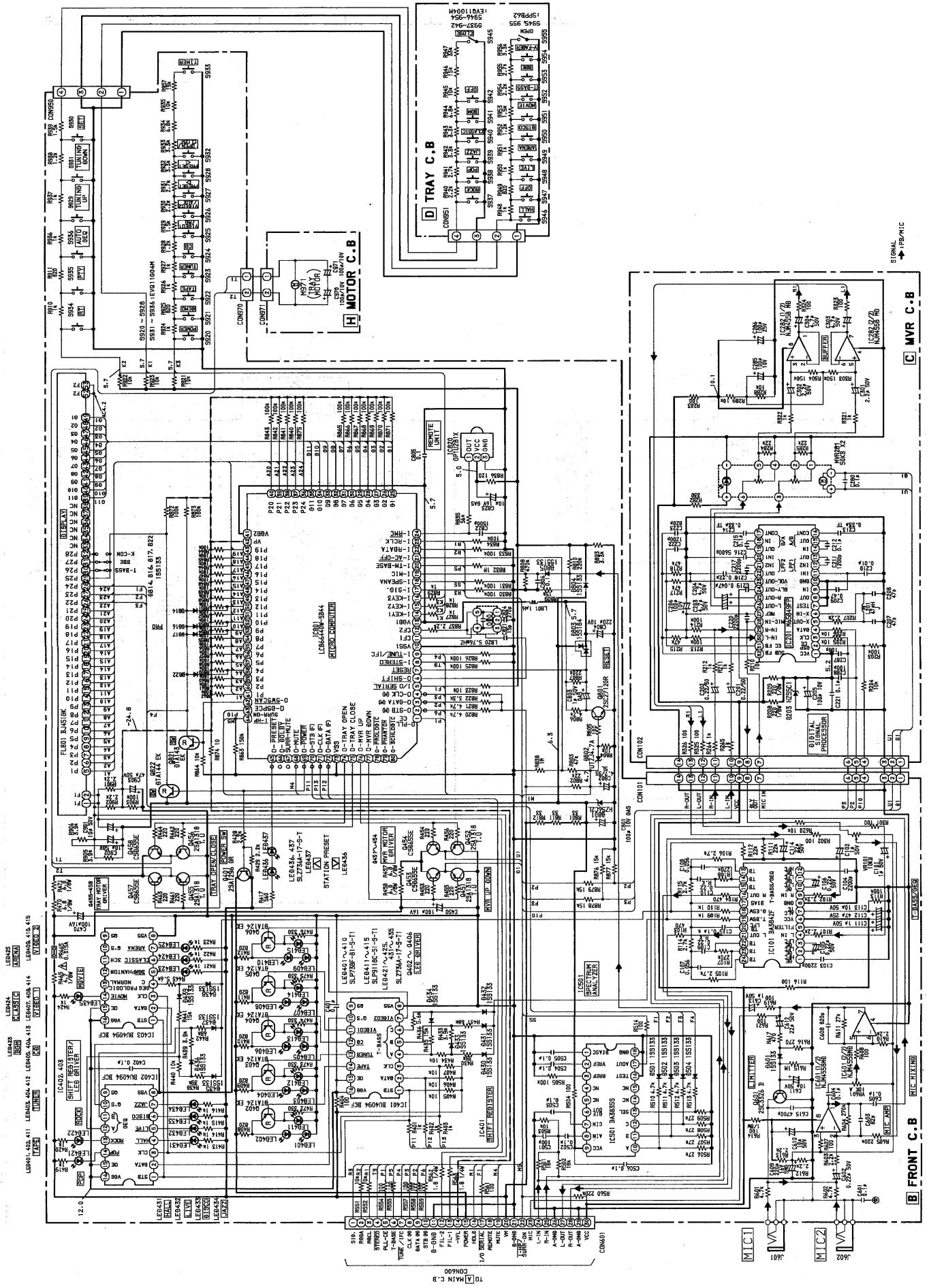
	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2b, 2c	S3	B9	B9	B9	B9	B9	B9	B9	B9	B9
P2	1a	AUTO	B8	B8	B8	B8	B8	B8	B8	B8	B8
P3	1b	<(High)	B7	B7	B7	B7	B7	B7	B7	B7	B7
P4	1f	<(Low)	B6	B6	B6	B6	B6	B6	B6	B6	B6
P5	1g	((((O)))	B5	B5	B5	B5	B5	B5	B5	B5	B5
P6	1c	SLEEP	B4	B4	B4	B4	B4	B4	B4	B4	B4
P7	1e	MONO	B3	B3	B3	B3	B3	B3	B3	B3	B3
P8	1d	○	B2	B2	B2	B2	B2	B2	B2	B2	B2
P9	-	2a	B1	B1	B1	B1	B1	B1	B1	B1	B1
P10	-	2b	TRAFFIC	a	a	a	a	a	a	a	a
P11	B8	2f	RT	h	h	h	h	h	h	h	h
P12	B7	2g	RDS	j	j	j	j	j	j	j	j
P13	B6	2c	EON	k	k	k	k	k	k	k	k
P14	B5	2e	AG	b	b	b	b	b	b	b	b
P15	B4	2d	h	f	f	f	f	f	f	f	f
P16	B3	1a	a	m	m	m	m	m	m	m	m
P17	B2	1b	b	g	g	g	g	g	g	g	g
P18	B1	1f	f	c	c	c	c	c	c	c	c
P19	AM	1g	g	e	e	e	e	e	e	e	e
P20	PM	1c	c	r	r	r	r	r	r	r	r
P21	⌚	1e	e	p	p	p	p	p	p	p	p
P22	REC	1d	d	n	n	n	n	n	n	n	n
P23	-	Col (Low)	KHZ	d	d	d	d	d	d	d	d
P24	⊖p	Col (High)	MHZ	-	-	-	col	-	-	-	-
P25	-	-	S1	-	-	-	-	-	-	-	S1
P26	S4	-	-	-	-	-	-	-	-	-	-
P27	S5	-	-	-	-	-	-	-	-	-	-
P28	-	S2	-	-	-	-	-	-	-	-	-



—ELECTRONIC GRAPHIC EQUALIZER—

—SURROUND—

SCHEMATIC DIAGRAM-2 (FRONT)



IC DESCRIPTION

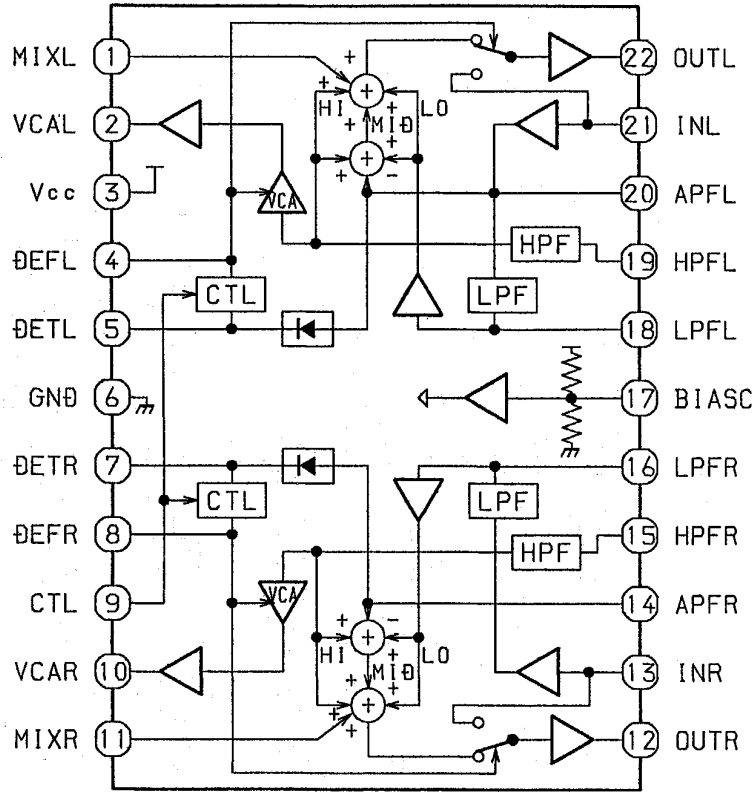
IC, LC866440W-5B44

Pin No.	Pin Name	I/O	Description
1	O-PLLCE	O	PLL IC chip enable output.
2	O-STB(M)	O	Main shift register,data latch strobe output.
3	O-DATA(M)	O	Main shift register/PLL/DSP related,data output.
4	O-CLK(M)	O	Main shift register/PLL/DSP related,data transfer clock output.
5	I/O SERIAL	I/O	FD microprocessor,I/O serial.
6	O-SHIFT	O	Microprocessor clock shift output during tuner reception.
7	RESET	I	Reset input(Reset at "L").
8	I-STEREO	I	Tuner stereo sensing input.
9	I-TUNE/IFC	I	Tuner,SD sensing input/IF count serial data input.
10	VSS 1	-	GND.
11	CF 1	-	5.76 MHz oscillator.
12	CF 2	-	5.76 MHz oscillator.
13	VDD 1	-	Power supply input.
14~16	I-KEY 1~3	I	Key 1~Key 3 A/D input.
17	I-SIG	I	Signal level A/D input for RDS.(Not used)
18	I-SPEANA	I	Spectrum analyzer level A/D input.
19	I-MIC	I	Mic level A/D input for auto vocal fader.
20	I-TMBASE	I	Reference clock input for watch(Automatically supporting 8/50/60 Hz).
21	I-AC OFF	I	Power failure sensing input(Hold at"L").
22	I-RDATA	I	Data input for RDS.
23	I-RCLK	I	Clock input for RDS.
24	I-RMC	I	System remote control input(active Low).
25~35	G1~G11	O	FL grid output(G1~G11).
36~40	P24~P20	O	FL segment output(P24~P20).
41	VDD 2	-	Power supply input.
42	VP	-	Power supply for display.
43~48	P19~P14	O	FL segment output(P19~P14).
49	P13	O	FL segment output/Diode input supporting OIRT.
50	P12	O	FL segment output/Diode input supporting.
51	P11	O	FL segment output/Diode input supporting NTSC.
52	P10	O	FL segment output/Diode input supporting PRO.
53	P9	O	FL segment output/Diode input supporting LW.
54	P8	O	FL segment output/Diode input supporting SW.
55	P7	O	FL segment output/Diode input supporting AM 10K.
56	P6	O	FL segment output/Diode input supporting AM STEREO.
57	P5	O	FL segment output/Diode input supporting FM JPN.
58	P4	O	FL segment output/Diode input supporting RDS.
59	P3	I/O	FL segment output/Diode input supporting BBE.
60	P2	I/O	FL segment output/Diode input supporting DSP.
61	P1	I/O	FL segment output/Diode input supporting K-CON.
62	O-SWSCAN	O	CD turntable reverse direction rotation output/SW scan(timing output).

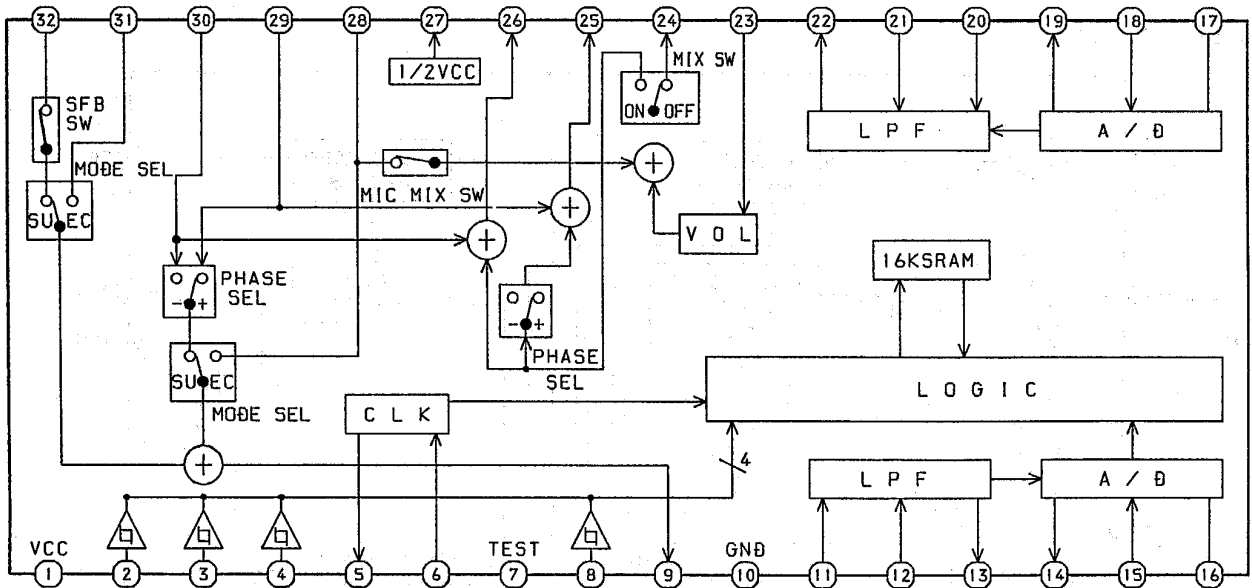
63	O-DSP CE	O	CD turntable forward direction rotation output/DSP chip enable.
64	SUR ON	O	SUR ON(output at"H").
65	O- $\overline{\text{PRESET LED}}$	O	Preset.
66~67	NC	-	Not used.
68	O-MUTE	O	System Mute ON/OFF output.
69	O- $\overline{\text{POWER}}$	O	System power supply ON/OFF output.
70	O-STB(F)	O	Front shift register,data latch strobe output.
71	O-CLK(F)	O	Front shift register,data clock output.
72	O-DATA(F)	O	Front shift register,data output.
73	VSS	-	GND.
74	O-TRAY OP	O	CD tray open output.
75	O-TRAY CL	O	CD tray close output.
76	O-VR UP	O	Vol up output.
77	O-VR DN	O	Vol down output.
78~80	NC	-	Not used.

IC BLOCK DIAGRAM

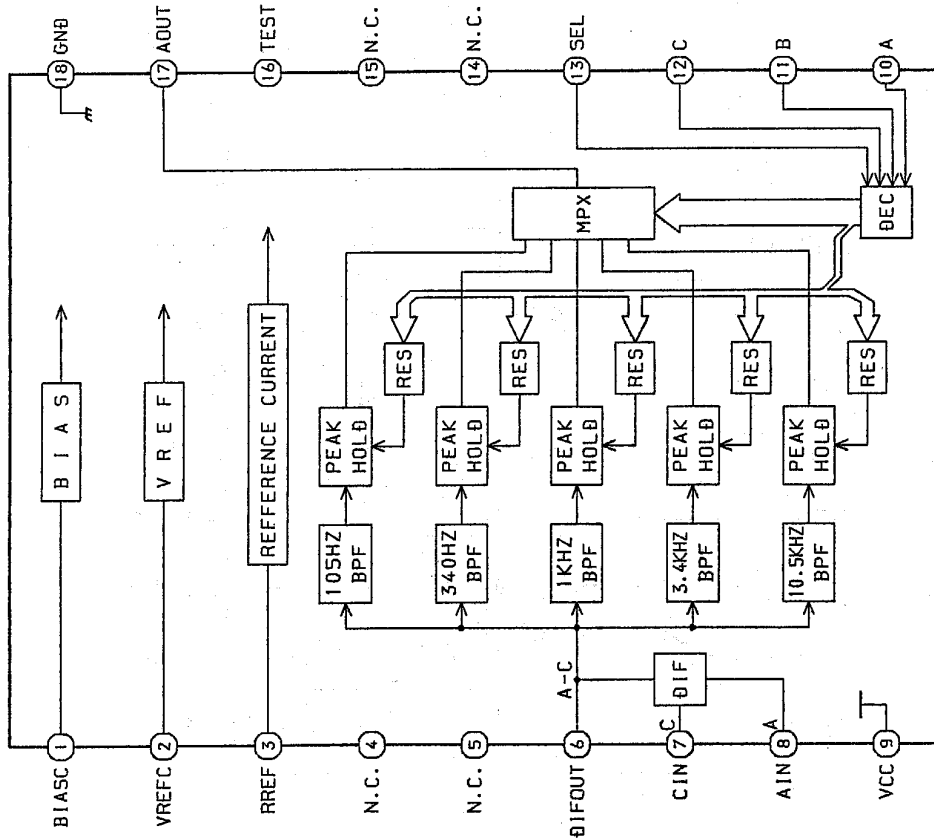
IC, BA3880S



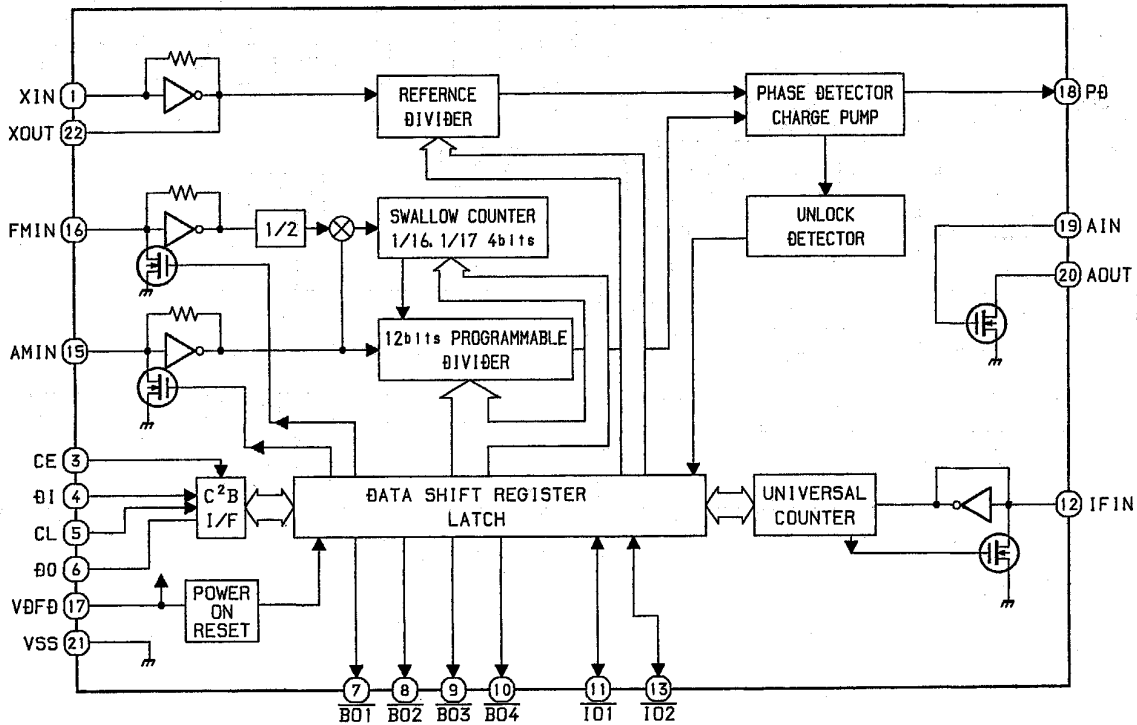
IC, M65849FP



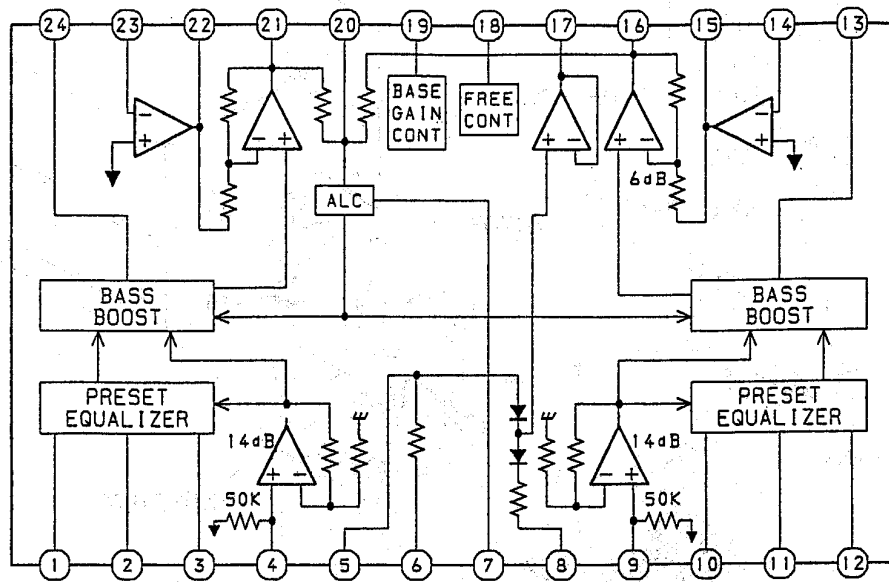
IC, BA3835S



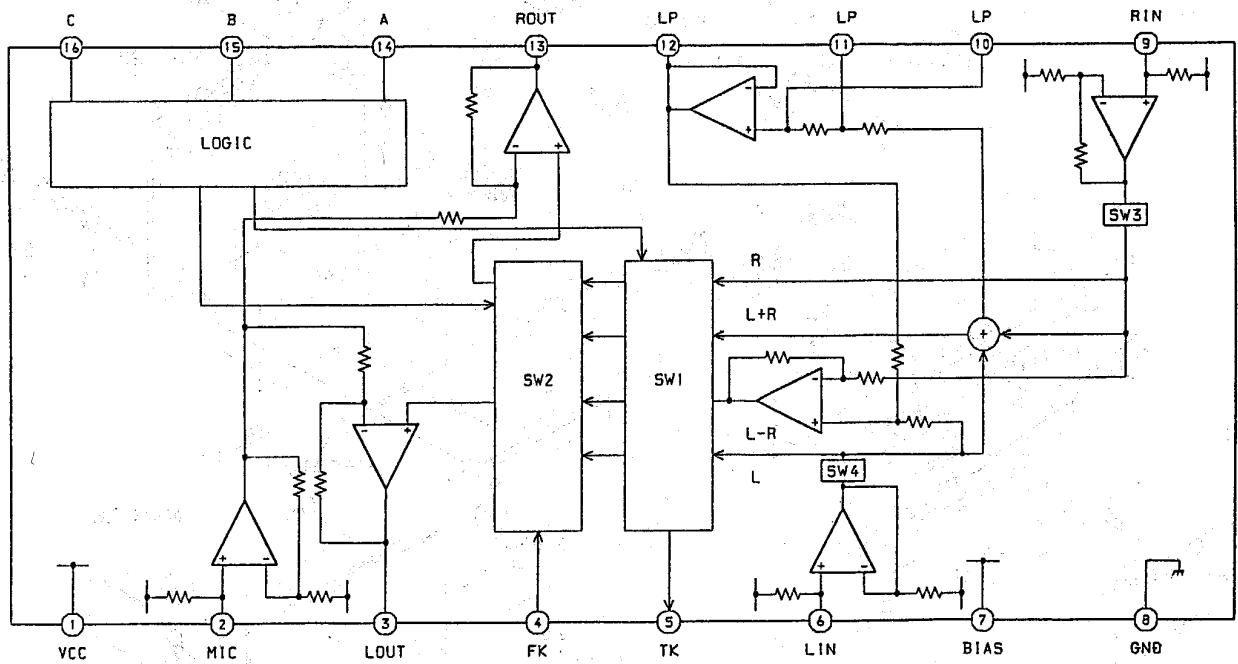
IC, LC72131D



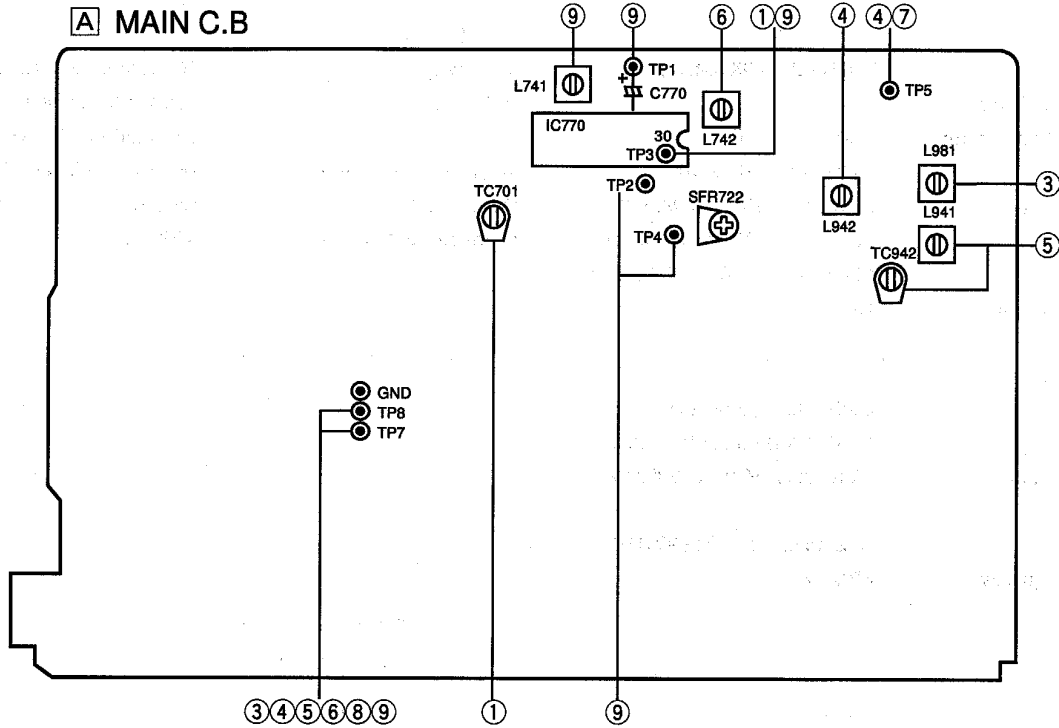
IC, BA3842F



IC, BA3836



ELECTRICAL ADJUSTMENT



TUNER SECTION

1. Clock Frequency Adjustment

Setting: • Test point : TP3(CLK)

• Adjustment location : TC701

Method: Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz \pm 0.01kHz.

2. MW VT Check

Setting: • Test point : TP5

Method: Set to MW 1602kHz and check the test point is 6.0 \pm 1.0V.

3. MW Tracking Adjustment

Settings: • Test point : TP7(Lch), TP8(Rch)

• Adjustment location : L981

Method: Set to MW 999kHz and adjust L981 so that the test point becomes maximum.

4. LW VT Adjustment

Settings: • Test point : TP5

• Adjustment location : L981

Method: Set to LW 144kHz and adjust L942 so that the test point becomes 1.3 \pm 0.05V.

5. LW Tracking Adjustment

Settings: • Test point : TP7(Lch), TP8(Rch)

• 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.

6. AM IF Adjustment

Setting: • Test point : TP7(Lch), TP8(Rch)

L742 450kHz

7. FM VT Check

Setting: • Test point : TP5

Method: Set to FM 87.5MHz and check that the test point is more than 1.5V.

Then set to FM 108MHz and check that the test point is less than 8.2V.

8. FM Tracking Check

Setting: • Test point : TP7(Lch), TP8(Rch)

Method: Check that the test point is 3 ~ 12dB and distortion is less than 3% at FM98.0MHz.

9. DC Balance / MONO Distortion Adjustment

Settings: • Test point : TP1, TP2 (DC Balance)

TP7(Lch), TP8(Rch) (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%.

PRACTICAL SERVICE FIGURE

TUNER SECTION

<FM SECTION>

IHF Sensitivity: 7dB±6dB (at 98.0MHz)
(DIN Filter at S/N 26dB)
S/N 50dB Quieting sensitivity: Less than 42dB
(S/N 46dB) (at 87.5/98.0/108.0MHz)
Signal to noise ratio: More than 65dB (at 98.0MHz)
Distortion: Less than 1.2% (at 98.0MHz)
Stereo separation: More than 20dB (at 98.0MHz)
Intermediate frequency: 10.7MHz

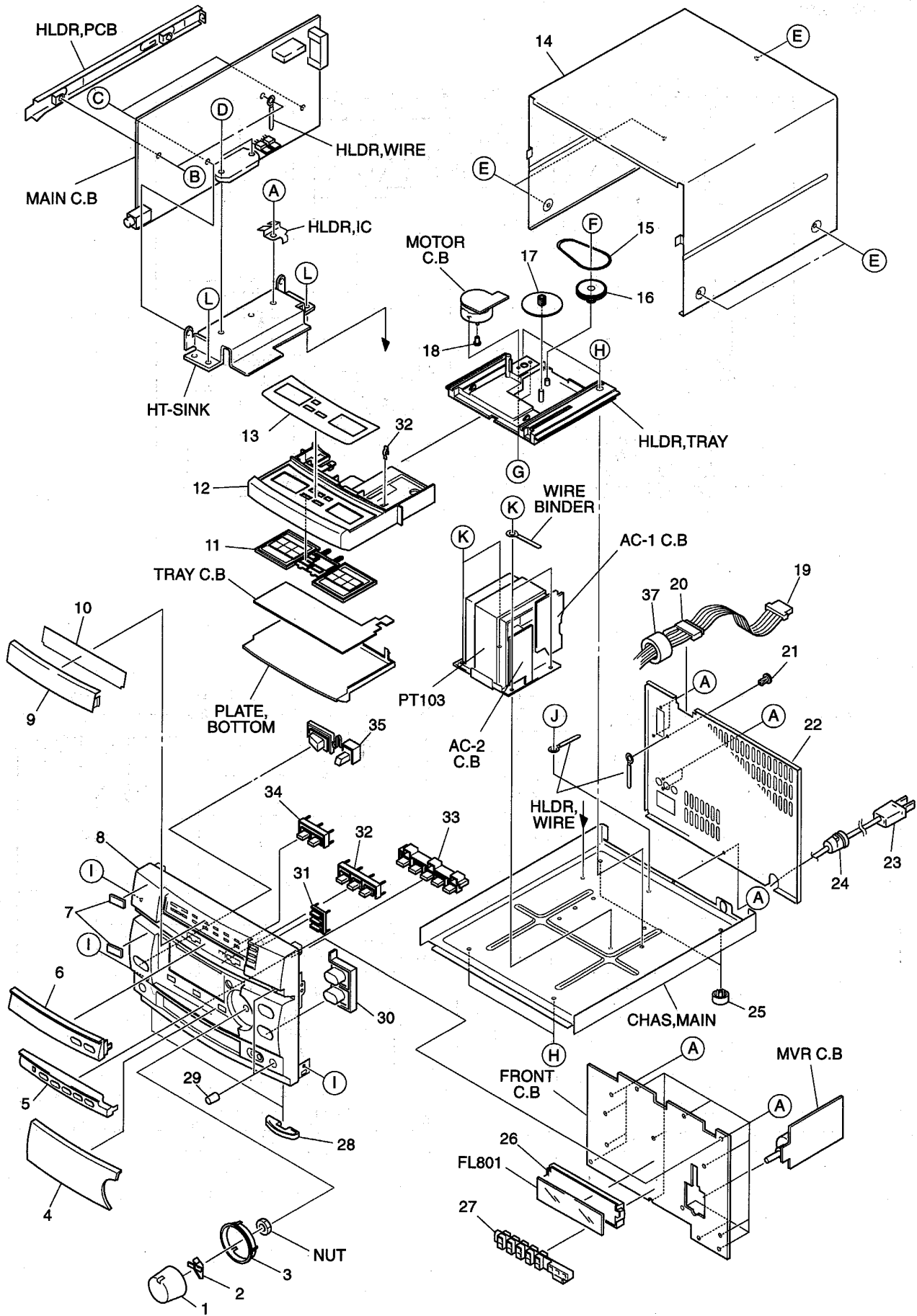
<MW SECTION>

Sensitivity: 46dB~58dB (at 603kHz)
(S/N 20dB) 46dB~58dB (at 999/1401kHz)
Signal to noise ratio: More than 36dB (at 999kHz)
(Input 100dB)
Distortion: Less than 1.5% (at 999kHz)
Intermediate frequency: 450kHz

<LW SECTION>

Sensitivity: 66dB±5dB (at 144kHz)
(S/N 20dB) 63dB±5dB (at 188kHz)
62dB±5dB (at 290kHz)
Signal to noise ratio: More than 32dB (at 198kHz)
Distortion: Less than 1.5% (at 198kHz)
Intermediate frequency: 450kHz

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	86-NT1-021-019		KNOB, RTRY VOL	29	86-NT1-023-019		KNOB, RTRY MIC
2	86-NT1-022-019		REFLECTOR, VOL	30	86-NT1-009-019		KEY, UP/DOWN
3	86-NT1-026-019		RING, VOL	31	86-NT1-011-019		KEY, RDS
4	86-NT1-037-010		WINDOW, DISPLAY RDS	32	86-NT1-012-019		KEY, SET
5	86-NT1-006-019		PANEL, FUN	33	86-NT1-020-019		KEY, ASSY FUN
6	86-NT1-005-019		PANEL, GEQ	34	86-NT1-030-019		KEY, TIMER
7	82-NE8-032-019		BADGE AIWA 27.5	35	86-NT1-008-019		KEY, POWER
8	86-NT1-032-019		CABI, FR EZ<NH9>	36	81-MT3-211-019		LEVER, OPEN
8	86-NT1-033-019		CABI, FR<NM9>	37	87-003-317-010		F-BEAD, 15-25-15 E2515MRT
9	86-NT1-027-019		WINDOW, GEQ	A	87-067-703-019		BVT2+3-10 (W/O SLOT)
10	86-NT1-025-019		PLATE, GEQ	B	87-078-084-019		BVTT+3-6 W, CONVEX
11	86-NT1-013-019		KEY, GEQ	C	87-067-633-019		BVT2+3-8 W/CONVEX
12	86-NT1-004-019		TRAY, CONTROL	D	87-067-581-019		BVT2+3-15 W/O SLOT
13	86-NT1-024-119		PLATE, TRAY	E	87-067-641-019		UTT2+3-8 W/O SLOT BLK
14	86-NT1-003-019		CABI, STEEL	F	87-861-095-419		VFT2+3-8 SLOT
15	80-VW1-217-010		BELT, SQ 1.5	G	87-261-073-419		V+2.6-6
16	82-NT1-205-11K		PULLEY, LOADING	H	87-067-584-019		BVT2+3-6 W/O SLOT
17	82-NT1-204-01K		GEAR, LOADING	I	87-591-094-419		QIT + 3 - 6 GOLD
18	80-VW1-204-010		PULLEY, MOTOR	J	87-571-092-419		VIT+3-4
19	86-NT2-655-119		CORD FG 15P	K	87-078-019-019		S-SCREW, IT+4-6
20	89-VT5-202-010		BUSHING, CORD	L	87-067-688-019		BVTT +3-6
21	87-084-077-019		NYLON RIVET DIA3.5-4.5				
22	86-NT1-047-019		PANEL, REAR EZBNM<NH9>				
22	86-NT1-049-019		PANEL, REAR<NM9>				
△	23	87-050-079-019	AC-CORD ASSY, E				
24	87-085-185-019		BUSHING, AC CORD E				
25	87-085-213-019		FOOT, H12.5				
26	86-NT1-203-019		GUIDE, FL				
27	86-NT1-202-019		GUIDE, LED				
28	85-NC1-019-019		RING, FOOT				

MODEL NO.
FD-NH9

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.

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 the right figure.

CAUTION

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

ATTENTION

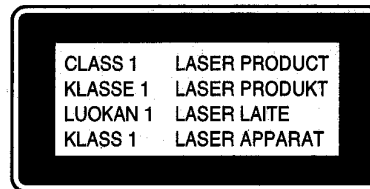
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

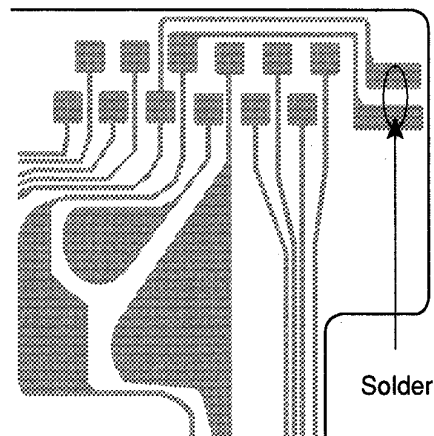
Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

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



PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

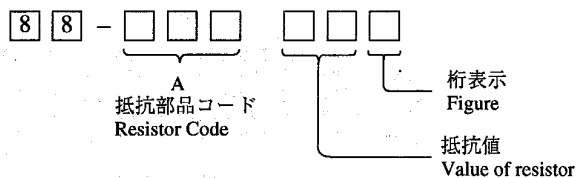
REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
IC				C151	87-012-158-089		C-CAP, S 390P-50 CH
	87-020-454-010		IC, DN 6851	C152	87-012-158-089		C-CAP, S 390P-50 CH
	87-017-022-089		IC, NJM2068M-D(T1)	C153	87-010-322-089		C-CAP, S 100P-50 CH
	87-017-917-089		IC, BU4066BCF	C154	87-010-322-089		C-CAP, S 100P-50 CH
	87-001-607-089		IC, NJM4558M	C155	87-010-197-089		C-CAP, S 0.01-25 B
	87-002-272-089		IC, TC4052 BF	C156	87-010-197-089		C-CAP, S 0.01-25 B
	87-001-985-010		IC, HA12142NT	C157	87-012-156-089		C-CAP, S 220P-50 CH
	87-020-784-089		IC, TC4053BF	C158	87-012-156-089		C-CAP, S 220P-50 CH
	87-017-888-089		IC, NJM4558MD	C159	87-010-318-089		C-CAP, S 47P-50 CH
	87-017-745-019		IC, CXA1782BQ	C160	87-010-318-089		C-CAP, S 47P-50 CH
	87-070-305-019		IC, BA6897S	C181	87-016-492-089		C-CAP, S 0.33-16 FZ
	87-001-982-019		IC, TA7291S	C182	87-016-492-089		C-CAP, S 0.33-16 FZ
	87-070-294-019		IC, CKD2508AQ	C183	87-010-197-089		C-CAP, S 0.01-25 B
	86-NV1-610-010		IC, LC866424V-5A61	C184	87-010-318-089		C-CAP, S 47P-50 CH
	87-017-375-089		IC, TC4094BF	C185	87-010-197-089		C-CAP, S 0.01-25 B
TRANSISTOR				C186	87-010-402-089		CAP, E 2.2-50 SME
	87-026-463-080		TR, 2SA933S	C187	87-010-184-089		C-CAP, S 3300P-50 B
	87-026-218-089		TR, DTC144ES	C205	87-010-426-089		C-CAP, S 0.012-25 B
	87-026-448-089		TR, 2SC1740SS	C206	87-010-426-089		C-CAP, S 0.012-25 B
	87-026-463-089		TR, 2SA933SRS	C303	87-010-183-089		C-CAP, S 2700P-50 B
	87-026-219-089		TR, DTA144ES	C304	87-010-183-089		C-CAP, S 2700P-50 B
	89-503-685-089		C-FET, 2SK368GR	C305	87-010-404-089		CAP, E 4.7-50 SME
	89-113-625-089		C-TR 2SA 1362 GR(TAPG)	C306	87-010-404-089		CAP, E 4.7-50 SME
	87-026-210-089		C-TR, DTC144EK T147	C323	87-012-157-089		C-CAP, S 330P-50 CH
	89-327-125-089		C-TR, 2SC2712GR	C324	87-012-157-089		C-CAP, S 330P-50 CH
	89-320-011-089		TR, 2SC2001K	C341	87-010-196-089		C-CAP, S 0.1-25 F
	89-109-521-089		TR, 2SA952K	C342	87-010-196-089		C-CAP, S 0.1-25 F
	89-318-155-089		TR, 2SC1815GR	C343	87-010-196-089		C-CAP, S 0.1-25 F
	89-333-317-889		TR, 2SC3331 TU	C345	87-010-404-089		CAP, E 4.7-50 SME
	89-333-266-089		C-TR, 2SC3326B	C346	87-010-404-089		CAP, E 4.7-50 SME
	87-026-233-089		C-TR, DTA114TK	C347	87-010-404-089		CAP, E 4.7-50 SME
	87-026-211-089		C-TR, DTA144EK T147	C348	87-010-404-089		CAP, E 4.7-50 SME
	89-110-373-089		C-TR, 2SA1037S	C361	87-010-400-089		CAP, E 0.47-50 SME
	87-026-239-089		C-TR, DTC114TK	C362	87-010-400-089		CAP, E 0.47-50 SME
	89-113-187-089		TR, 2SA1318TU	C363	87-010-400-089		CAP, E 0.47-50 SME
	89-421-722-389		TR, 2SD2172 V/W	C364	87-010-400-089		CAP, E 0.47-50 SME
	87-026-223-089		C-TR, DTC143TK	C365	87-010-182-089		C-CAP, S 2200P-50 B
	87-026-608-089		C-TR, DTC 123 JK	C366	87-010-182-089		C-CAP, S 2200P-50 B
	87-A30-039-089		C-TR, 2SD1383K	C367	87-010-182-089		C-CAP, S 2200P-50 B
	89-112-965-089		TR, 2SA1296GR	C368	87-010-182-089		C-CAP, S 2200P-50 B
	87-026-228-089		C-TR DTA124EK	C369	87-010-182-089		C-CAP, S 2200P-50 B
DIODE				C370	87-010-182-089		C-CAP, S 2200P-50 B
	87-020-465-089		DIODE, 1SS133	C371	87-010-196-089		C-CAP, S 0.1-25 F
	87-001-290-089		ZENER, HZS6B1L	C372	87-010-196-089		C-CAP, S 0.1-25 F
	87-017-121-089		ZENER, HZS11A1	C373	87-010-196-089		C-CAP, S 0.1-25 F
	87-020-123-089		DIODE DS446-AT (TA)	C374	87-010-196-089		C-CAP, S 0.1-25 F
	87-001-731-089		ZENER HZS6C2L	C375	87-010-402-089		CAP, E 2.2-50 SME
	87-020-331-089		C-DIODE, DAN202K	C376	87-010-402-089		CAP, E 2.2-50 SME
	87-017-091-089		ZENER, HZS5C1	C377	87-010-247-089		CAP, E 100-50 SME
	87-020-339-089		C-DIODE, 1SS226	C378	87-010-401-089		CAP, E 1-50 SME
	87-017-097-089		ZENER, HZS6B1	C379	87-010-406-089		CAP, E 22-50 SME
	87-020-330-089		C-DIODE, DAP202K	C381	87-010-402-089		CAP, E 2.2-50 SME
MAIN C.B				C382	87-010-402-089		CAP, E 2.2-50 SME
	C101	87-012-158-089	C-CAP, S 390P-50 CH	C401	87-012-156-089		C-CAP, S 220P-50 CH
	C102	87-012-158-089	C-CAP, S 390P-50 CH	C402	87-012-156-089		C-CAP, S 220P-50 CH
	C103	87-010-318-089	C-CAP, S 47P-50 CH	C403	87-014-059-089		CAP, PP 1200P-100 J
	C104	87-010-318-089	C-CAP, S 47P-50 CH	C405	87-010-263-089		CAP, E 100-10 SME 5X11
	C105	87-010-193-089	C-CAP, S 0.033-25 F	C409	87-010-402-089		CAP, E 2.2-50 SME
	C106	87-010-193-089	C-CAP, S 0.033-25 F	C410	87-010-405-089		CAP, E 10-50 SME
	C109	87-012-154-089	C-CAP, S 150P-50 CH	C411	87-010-178-089		C-CAP, S 1000P-50 B
	C110	87-012-154-089	C-CAP, S 150P-50 CH	C412	87-010-221-089		CAP, E 470-10 11L
	C111	87-010-197-089	C-CAP, S 0.01-25 B	C414	87-010-196-089		C-CAP, S 0.1-25 F
	C112	87-010-197-089	C-CAP, S 0.01-25 B	C451	87-010-237-089		CAP, E 1000-16
	C113	87-010-196-089	C-CAP, S 0.1-25 F	C452	87-010-101-089		CAP, E 220-16 SME
				C453	87-010-404-089		CAP, E 4.7-50 SME
				C454	87-010-248-049		CAP, E 220-10 SME
				C455	87-010-401-089		CAP, E 1-50 SME
				C456	87-010-401-089		CAP, E 1-50 SME
				C457	87-010-263-089		CAP, E 100-10 SME 5X11
				C458	87-010-381-089		CAP, E 330-16 SME

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C459	87-010-196-089		C-CAP,S 0.1-25 F	C648	87-010-196-089		C-CAP,S 0.1-25 F
C481	87-010-406-089		CAP,E 22-50 SME	C649	87-010-193-089		C-CAP,S 0.033-25 F
C482	87-010-406-089		CAP,E 22-50 SME	C661	87-010-196-089		C-CAP,S 0.1-25 F
C483	87-010-263-089		CAP,E 100-10 SME 5X11	C662	87-010-260-089		CAP,E 47-25 SME
C484	87-010-408-089		CAP,E 47-50 SME	C681	87-010-197-089		C-CAP,S 0.01-25 B
C485	87-010-221-089		CAP,E 470-10 11L	C692	87-010-381-089		CAP,E 330-16 SME
C486	87-010-221-089		CAP,E 470-10 11L	C693	87-010-196-089		C-CAP,S 0.1-25 F
C501	87-010-405-089		CAP,E 10-50 SME	C701	87-010-194-089		C-CAP,S 0.047-25 F
C502	87-010-198-089		C-CAP,S 0.022-25 B	C702	87-010-188-089		C-CAP,S 6800P-50 B
C503	87-010-196-089		C-CAP,S 0.1-25 F	C703	87-010-186-089		C-CAP,S 4700P-50 B
C504	87-010-196-089		C-CAP,S 0.1-25 F	C704	87-012-156-089		C-CAP,S 220P-50 CH
C505	87-010-196-089		C-CAP,S 0.1-25 F	C705	87-010-404-089		CAP,E 4.7-50 SME
C506	87-018-209-089		CAP,TC-U 0.1-50 F	C706	87-010-263-089		CAP,E 100-10 SME 5X11
C516	87-010-381-089		CAP,E 330-16 SME	C707	87-010-197-089		C-CAP,S 0.01-25 B
C517	87-010-404-089		CAP,E 4.7-50 SME	C708	87-010-400-089		CAP,E 0.47-50 SME
C518	87-010-404-089		CAP,E 4.7-50 SME	C709	87-010-197-089		C-CAP,S 0.01-25 B
C519	87-010-405-089		CAP,E 10-50 SME	C711	87-010-196-089		C-CAP,S 0.1-25 F
C520	87-010-405-089		CAP,E 10-50 SME	C713	87-010-263-089		CAP,E 100-10 SME 5X11
C521	87-012-154-089		C-CAP,S 150P-50 CH	C714	87-010-197-089		C-CAP,S 0.01-25 B
C522	87-012-154-089		C-CAP,S 150P-50 CH	C715	87-010-318-089		C-CAP,S 47P-50 CH
C523	87-010-405-089		CAP,E 10-50 SME	C716	87-010-318-089		C-CAP,S 47P-50 CH
C524	87-010-316-089		C-CAP,S 33P-50 CH	C717	87-018-134-089		CAP,TC-U 0.01-16 Y
C525	87-012-154-089		C-CAP,S 150P-50 CH	C741	87-012-153-089		C-CAP,S 120P-50 CH
C526	87-012-154-089		C-CAP,S 150P-50 CH	C742	87-012-153-089		C-CAP,S 120P-50 CH
C527	87-010-387-089		CAP,ELECT 470-25V	C743	87-010-321-089		C-CAP,S 82P-50 CH
C528	87-010-384-089		CAP,E 100-25 SME	C744	87-010-321-089		C-CAP,S 82P-50 CH
C529	87-010-374-089		CAP,E 47-10 11L	C745	87-010-321-089		C-CAP,S 82P-50 CH
C530	87-010-316-089		C-CAP,S 33P-50 CH	C746	87-010-321-089		C-CAP,S 82P-50 CH
C531	87-010-316-089		C-CAP,S 33P-50 CH	C747	87-012-153-089		C-CAP,S 120P-50 CH
C533	87-012-157-089		C-CAP,S 330P-50 CH	C748	87-012-153-089		C-CAP,S 120P-50 CH
C534	87-012-157-089		C-CAP,S 330P-50 CH	C749	87-012-153-089		C-CAP,S 120P-50 CH
C535	87-012-154-089		C-CAP,S 150P-50 CH	C750	87-012-153-089		C-CAP,S 120P-50 CH
C536	87-012-154-089		C-CAP,S 150P-50 CH	C751	87-010-401-089		CAP,E 1-50 SME
C601	87-010-182-089		C-CAP,S 2200P-50 B	C752	87-010-401-089		CAP,E 1-50 SME
C602	87-010-196-089		C-CAP,S 0.1-25 F	C753	87-010-186-089		C-CAP,S 4700P-50 B
C603	87-010-196-089		C-CAP,S 0.1-25 F	C754	87-010-186-089		C-CAP,S 4700P-50 B
C604	87-010-196-089		C-CAP,S 0.1-25 F	C755	87-010-221-089		CAP,E 470-10 11L
C605	87-010-404-089		CAP,E 4.7-50 SME	C756	87-010-263-089		CAP,E 100-10 SME 5X11
C606	87-010-193-089		C-CAP,S 0.033-25 F	C771	87-018-119-089		CAP,TC-U 100P-50 B
C607	87-010-197-089		C-CAP,S 0.01-25 B	C772	87-018-119-089		CAP,TC-U 100P-50 B
C608	87-010-402-089		CAP,E 2.2-50 SME	C773	87-010-318-089		C-CAP,S 47P-50 CH
C609	87-010-265-089		CAP,E 33-16 SME	C774	87-018-131-089		CAP,TC-U 1000P-50 B
C610	87-010-213-089		C-CAP,S 0.015-25 B	C775	87-018-209-089		CAP,TC-U 0.1-50 F<YU>
C611	87-010-197-089		C-CAP,S 0.01-25 B	C791	87-010-263-089		CAP,E 100-10 SME 5X11
C612	87-010-263-089		CAP,E 100-10 SME 5X11	C792	87-010-197-089		C-CAP,S 0.01-25 B
C613	87-018-134-089		CAP,TC-U 0.01-16 Y	C901	87-018-149-089		CAP,TC-U 15P-50 CH
C614	87-010-193-089		C-CAP,S 0.033-25 F	C902	87-012-155-089		C-CAP,S 180P-50 CH
C615	87-010-197-089		C-CAP,S 0.01-25 B	C941	87-010-196-089		C-CAP,S 0.1-25 F
C616	87-010-193-089		C-CAP,S 0.033-25 F	C942	87-010-196-089		C-CAP,S 0.1-25 F
C617	87-010-197-089		C-CAP,S 0.01-25 B	C943	87-010-384-089		CAP,E 100-25 SME
C618	87-010-146-089		C-CAP,S 2P-50 CH	C944	87-010-322-089		C-CAP,S 100P-50 CH
C619	87-010-154-089		C-CAP,S 10P-50 CH	C945	87-010-322-089		C-CAP,S 100P-50 CH
C620	87-010-263-089		CAP,E 100-10 SME 5X11	C946	87-010-322-089		C-CAP,S 100P-50 CH
C621	87-010-178-089		C-CAP,S 1000P-50 B	CON903	86-NV1-613-019		CONN ASSY,4P CST
C622	87-010-198-089		C-CAP,S 0.022-25 B	CON910	87-009-065-019		CONN,15P FG
C623	87-010-196-089		C-CAP,S 0.1-25 F	EMI803	87-008-372-089		FLTR,EMI BL01RN1
C624	87-010-197-089		C-CAP,S 0.01-25 B	FC1	85-NFT-611-119		FF-CABLE,16P-1.0
C625	87-010-263-089		CAP,E 100-10 SME 5X11	FC2	88-916-301-119		FF-CABLE,16P 1.25
C626	87-010-248-089		CAP,E 220-10 SME	FC3	88-909-251-119		FF-CABLE,9P 1.25
C627	87-010-197-089		C-CAP,S 0.01-25 B	FC4	88-906-201-119		FF-CABLE,6P 1.25
C628	87-010-260-089		CAP,E 47-25 SME	FC5	84-ZG1-630-019		CABLE FFC 6P-1.25
C629	87-010-196-089		C-CAP,S 0.1-25 F	FL901	86-NV1-619-019		FL,7-ST-27G
C640	87-010-196-089		C-CAP,S 0.1-25 F	J901	81-VP1-635-019		JACK,PIN 3P EARTH
C641	87-010-221-089		CAP,E 470-10 11L	J902	81-VP1-634-019		JACK,PIN 3P
C642	87-010-196-089		C-CAP,S 0.1-25 F	J903	81-VP1-635-019		JACK,PIN 3P EARTH
C643	87-010-197-089		C-CAP,S 0.01-25 B	L301	86-NV1-618-019		COIL,TRAP 108K
C644	87-010-263-089		CAP,E 100-10 SME 5X11	L302	86-NV1-618-019		COIL,TRAP 108K
C645	87-010-221-089		CAP,E 470-10 11L	L303	87-003-131-089		COIL,10MH J
C646	87-010-197-089		C-CAP,S 0.01-25 B	L304	87-003-131-089		COIL,10MH J
C647	87-010-196-089		C-CAP,S 0.1-25 F	L305	87-003-123-089		COIL,2.2MH J

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
L306	87-003-123-089		COIL, 2.2MH J	LED C.B			
L401	86-NV1-617-019		COIL, OSC BIAS 108K	LED701	87-017-806-010		LED, SEL1810DM
L402	87-005-447-089		COIL, 180UH FLR50	LED702	87-017-350-080		LED, SEL1550CM
L451	87-005-474-089		COIL, 12UH J FLR50	LED703	87-017-350-080		LED, SEL1550CM
L601	87-003-295-089		COIL, 10UH	LED704	87-017-806-010		LED, SEL1810DM
L901	87-A50-052-019		COIL, CLOCK 5.76MHZ T1	VIDEO2 C.B			
LED791	87-A40-123-019		LED, SLZ-8128A-01-B	C1	87-010-112-089		CAP, E 100-16 SME
LED910	87-070-108-019		LED, SLF-301C-37	C2	87-010-405-089		CAP, E 10-50 SME
LED911	87-070-108-019		LED, SLF-301C-37	C3	87-010-405-089		CAP, E 10-50 SME
SFR101	87-024-238-089		SFR, 1K DIA6 V TP	C4	87-010-405-089		CAP, E 10-50 SME
SFR102	87-024-238-089		SFR, 1K DIA6 V TP	C5	87-010-405-089		CAP, E 10-50 SME
SFR151	87-024-238-089		SFR, 1K DIA6 V TP	C6	87-010-112-089		CAP, E 100-16 SME
SFR152	87-024-238-089		SFR, 1K DIA6 V TP	T-T C.B			
SFR301	87-024-271-089		SFR4.7K DIA6 V	C401	87-018-214-089		CAP TC U 0.1-50 F
SFR302	87-024-271-089		SFR4.7K DIA6 V	FC401	84-ZG1-614-119		CABLE PFC 5P-1.25
SFR401	87-024-275-089		SFR, 47K DIA6 V TP	M401	87-045-364-019		MOTOR, (BCH3B14)
SFR402	87-024-275-089		SFR, 47K DIA6 V TP	PS401	87-026-573-019		P-SNSR, GP1S53V
SFR601	87-024-175-089		SFR, 47K DIA6 V	DECK C.B			
SFR602	87-024-176-089		SFR, 100K DIA6 V		82-ZM1-625-019		RBN-CORD, 4P-55
SFR603	87-024-176-089		SFR, 100K DIA6 V	CON501	87-099-756-019		CONN, 15P 9604S F
SW731	87-036-109-019		SW, PUSH SPPB 61	SFR1	87-024-581-010		SFR, 3.3K DIA 6H
SW732	87-036-109-019		SW, PUSH SPPB 61	SOL1	82-ZM1-618-310		SOL ASSY, 27
VR501	86-NV1-616-019		VR, 50K BX2 RK14K12A0L30	SOL2	82-ZM1-626-010		SOL ASSY, 27K
VR502	81-MX4-636-019		VR, 50K BX2 RK14K12A0L30	SW1	87-036-378-010		SW, PUSH 1-1-1 SH2
X701	87-030-270-089		VIB, XTAL 16.9344MHZ	SW2	87-036-378-010		SW, PUSH 1-1-1 SH2
KEY1 C.B				SW3	87-036-378-010		SW, PUSH 1-1-1 SH2
FC6	88-909-251-119		FF-CABLE, 9P 1, 25	SW4	87-036-378-010		SW, PUSH 1-1-1 SH2
LED901	87-001-161-019		LED, SEL 2410 E GR	SW5	87-036-378-010		SW, PUSH 1-1-1 SH2
LED902	87-001-161-019		LED, SEL 2410 E GR	SW6	87-036-378-010		SW, PUSH 1-1-1 SH2
LED903	87-001-161-019		LED, SEL 2410 E GR	SW7	87-036-378-010		SW, PUSH 1-1-1 SH2
LED904	87-001-161-019		LED, SEL 2410 E GR	SW8	87-036-378-010		SW, PUSH 1-1-1 SH2
LED905	87-001-161-019		LED, SEL 2410 E GR	SW9	87-036-378-010		SW, PUSH 1-1-1 SH2
LED906	87-001-161-019		LED, SEL 2410 E GR	HEAD-1 C.B			
S901	87-A90-095-089		SW, TACT EVQ11G04M	W106	86-NV1-611-019		CONN ASSY, 3P DECK1
S902	87-A90-095-089		SW, TACT EVQ11G04M	HEAD-2 C.B			
S903	87-A90-095-089		SW, TACT EVQ11G04M	W105	86-NV1-612-019		CONN ASSY, 8P DECK2
S904	87-A90-095-089		SW, TACT EVQ11G04M	DRIVE C.B			
S905	87-A90-095-089		SW, TACT EVQ11G04M	M1	87-045-358-019		MOT, RF-310TA 43
S906	87-A90-095-089		SW, TACT EVQ11G04M	M2	87-045-356-019		MOT, RF-310TA 30
S907	87-A90-095-089		SW, TACT EVQ11G04M	SW1	87-A90-042-019		SW, LEAF MSW 17310 MVPO
S908	87-A90-095-089		SW, TACT EVQ11G04M				
S909	87-A90-095-089		SW, TACT EVQ11G04M				
S910	87-A90-095-089		SW, TACT EVQ11G04M				
KEY2 C.B							
LED907	87-002-817-019		LED, SEL 2215 S RED				
LED908	87-002-817-019		LED, SEL 2215 S RED				
LED909	87-002-817-019		LED, SEL 2215 S RED				
S912	87-A90-095-089		SW, TACT EVQ11G04M				
S913	87-A90-095-089		SW, TACT EVQ11G04M				
S914	87-A90-095-089		SW, TACT EVQ11G04M				
S915	87-A90-095-089		SW, TACT EVQ11G04M				
S916	87-A90-095-089		SW, TACT EVQ11G04M				

○ 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

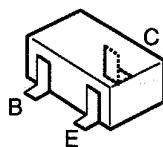
TRANSISTOR ILLUSTRATION



2SA933S
2SC1740S
DTA144ES
DTC144ES

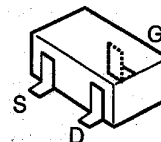


2SA952
2SA1296
2SA1318
2SC1815
2SC2001
2SC3331
2SD2172



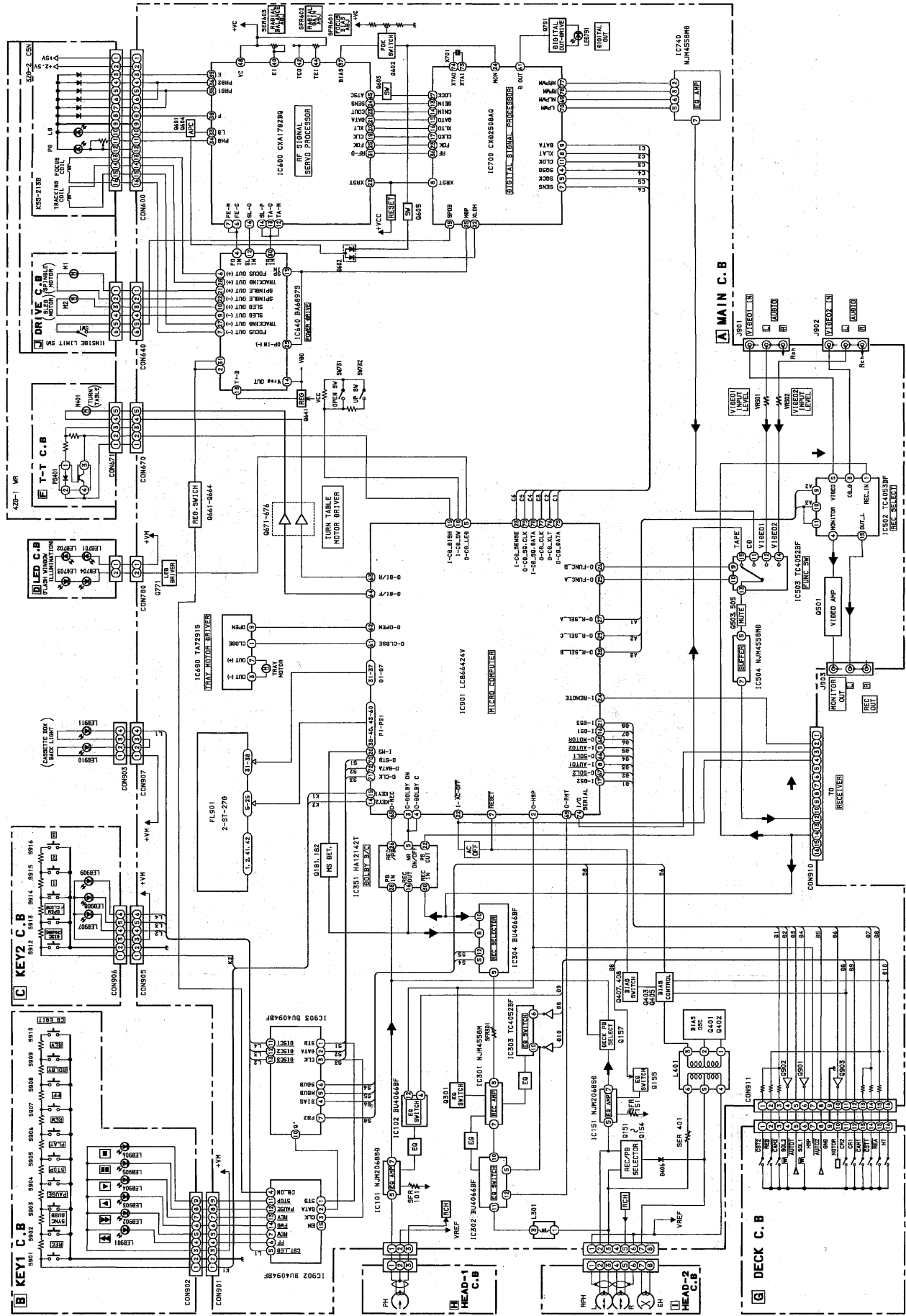
2SA1037
2SA1362
2SC2712
2SC3326
2SD1383
DTA114TK

DTA124EK
DTA144EK
DTC114TK
DTC123JK
DTC143TK
DTC144EK

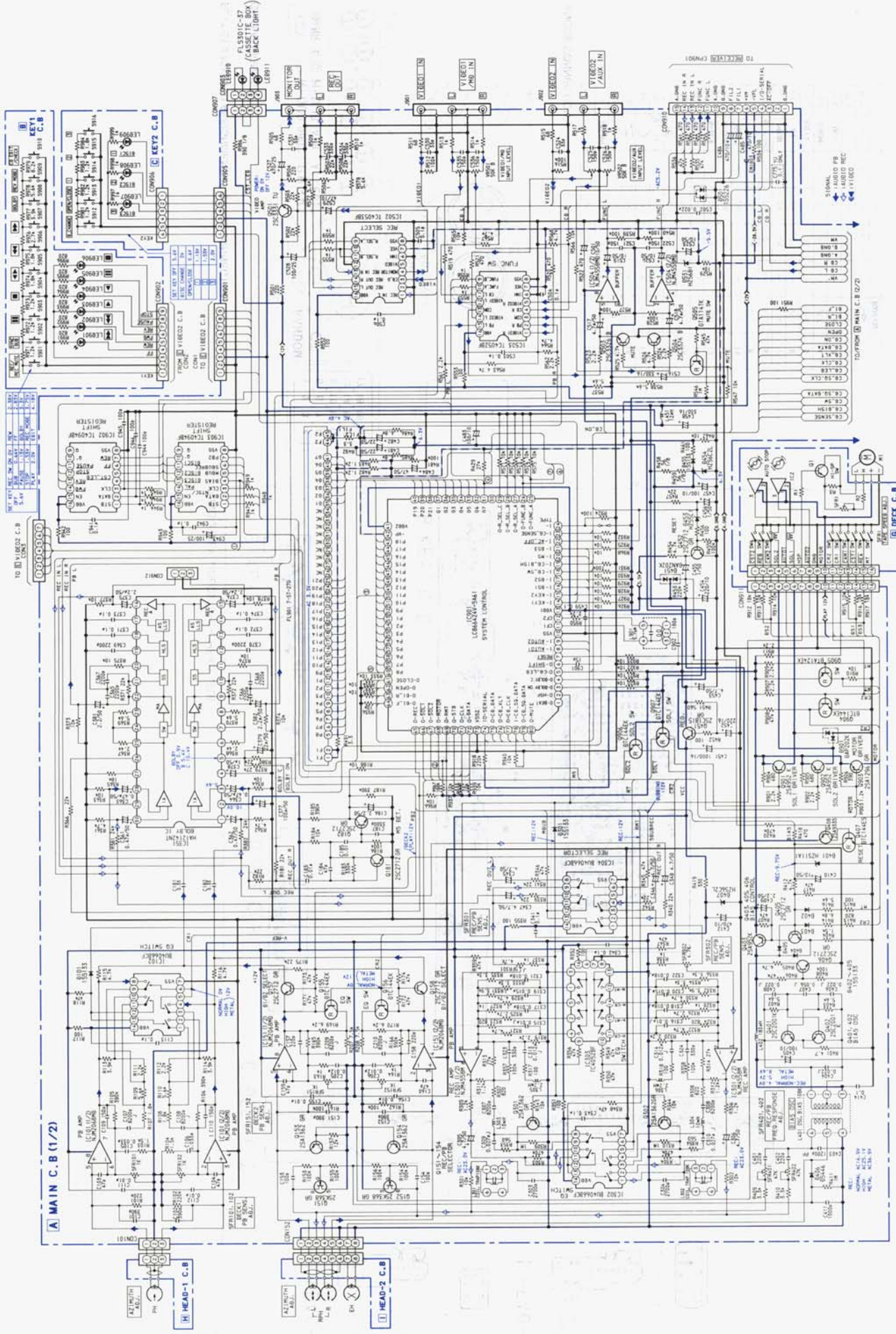


2SK368

BLOCK DIAGRAM

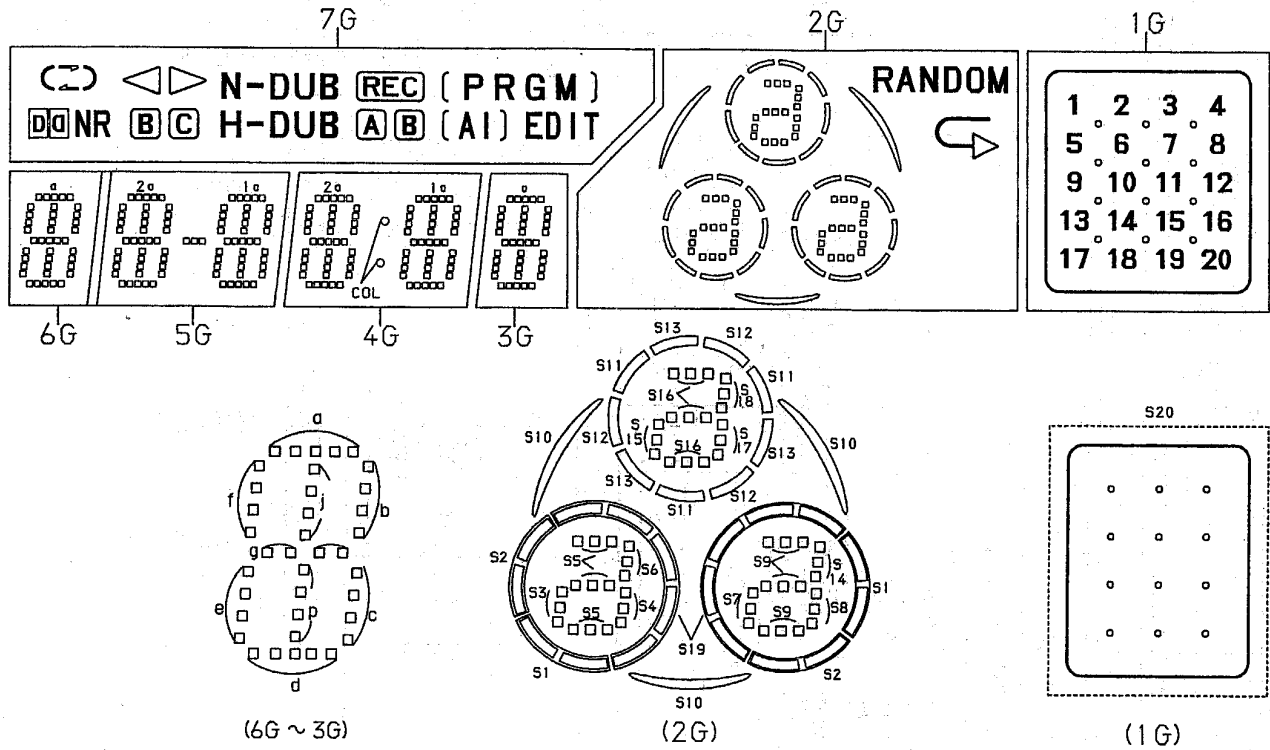


SCHEMATIC DIAGRAM-1 (MAIN 1/2)



FL (7-ST-27G) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

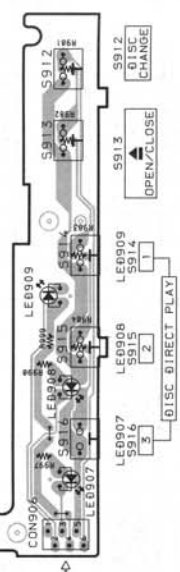


ANODE CONNECTION

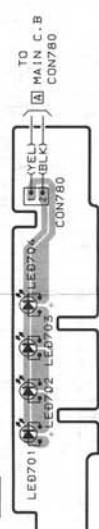
	7G	6G	5G	4G	3G	2G	1G
P1	NR	d	1d	1d	d	S1	20
P2	(p	1p	1p	p	S2	19
P3	↗	e	1e	1e	e	S3	18
P4)	c	1c	1c	c	S4	17
P5	B (LEFT)	g	1g	1g	g	S5	16
P6	C	f	1f	1f	f	S6	15
P7	◁	b	1b	1b	b	S7	14
P8	▷	j	1j	1j	j	S8	13
P9	N-DUB	a	1a	1a	a	S9	12
P10	H-DUB	—	2d	2d	—	S10	11
P11	REC	—	2p	2p	—	S11	10
P12	A	—	2e	2e	—	S12	9
P13	B (RIGHT)	—	2c	2c	—	S13	8
P14	PRGM	—	2g	2g	—	S14	7
P15	AI	—	2f	2f	—	S15	6
P16	EDIT	—	2b	2b	—	S16	5
P17	(PRGM)	—	2j	2j	—	S17	4
P18	(AI)	—	2a	2a	—	S18	3
P19	—	—	ooo	COL (HIGH)	—	S19	2
P20	—	—	—	COL (LOW)	—	↻	1
P21	—	—	—	—	—	RANDOM	S20

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

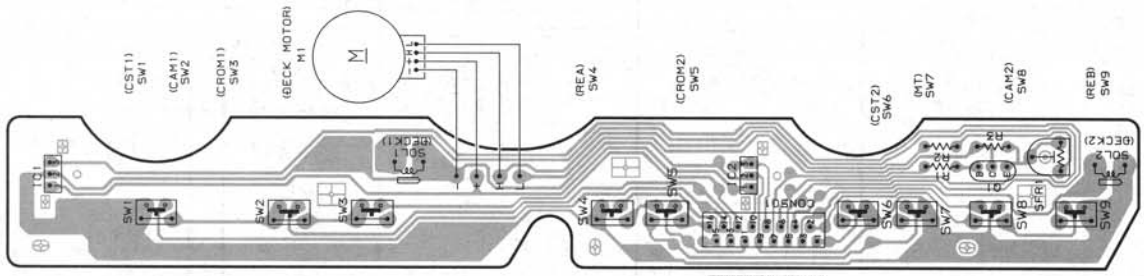
C KEY2 C.B



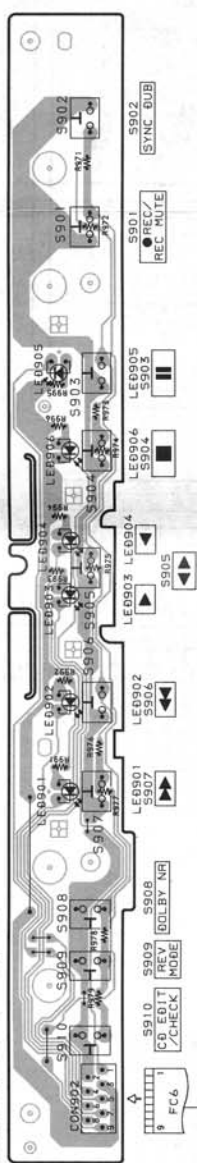
D LED C.B



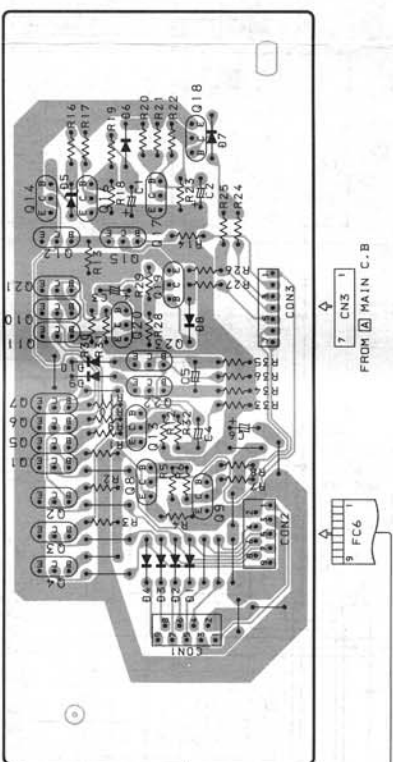
G DECK C.B



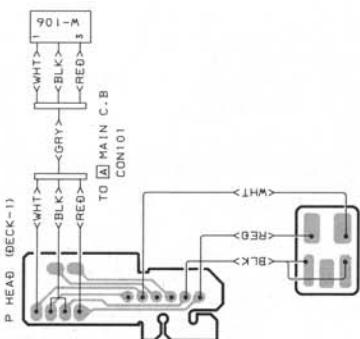
B KEY1 C.B



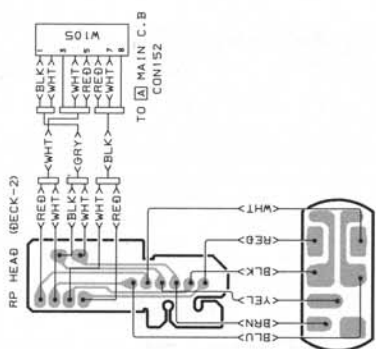
E VIDEO2 C.B



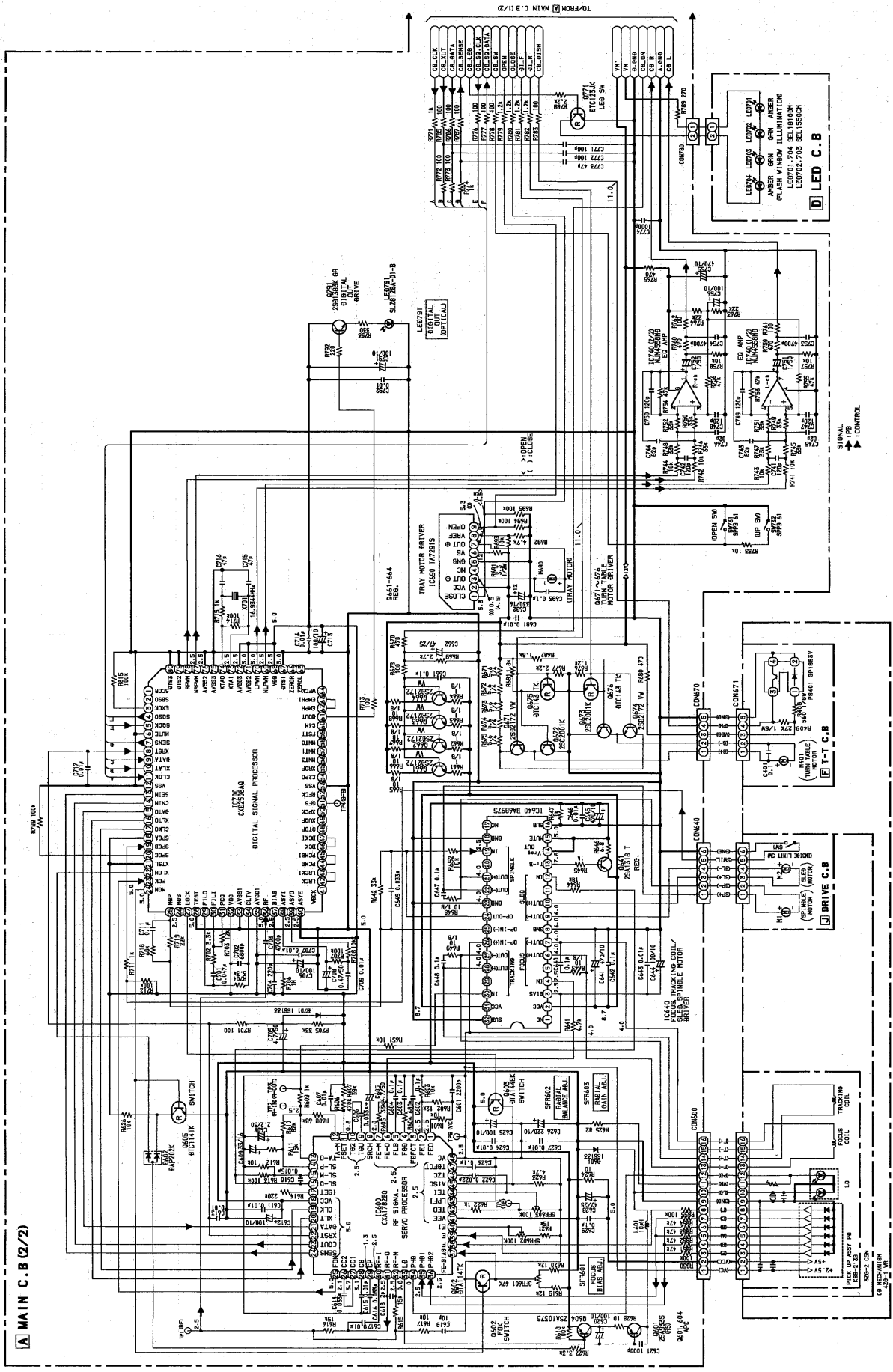
H HEAD-1 C.B



I HEAD-2 C.B



SCHEMATIC DIAGRAM-2 (MAIN 2/2)



IC DESCRIPTION

IC, LC866424V-5A61

Pin No.	Pin Name	I/O	Description															
1	O-BEAT	O	REC beat output. (ON/ $\overline{\text{OFF}}$)															
2	O-HSP	O	High speed dubbing switch. (HIGH/ $\overline{\text{NORMAL}}$)															
3	O-DOLBY/ON	O	DOLBY IC switch output. (DOLBY ON/ $\overline{\text{OFF}}$)															
4	O-DOLBY/C	O	DOLBY IC mode switch output. (DOLBY $\overline{\text{B}}$ /C)															
5	O-CD/LED	O	Flash window output. (ON/ $\overline{\text{OFF}}$)															
6	O- $\overline{\text{SHIFT}}$	O	Microprocessor clock shift out during tuner reception.															
7	RESET	I	Reset input (Reset at "L").															
8	I-AUTO 1	I	Deck 1 auto stop input.															
9	I-AUTO 2	I	Deck 2 auto stop input.															
10	VSS 1	-	GND.															
11	CF 1	I	5.76 MHz oscillator.															
12	CF 2	O	5.76 MHz oscillator.															
13	VDD 1	-	Power supply input.															
14	I-KEY 1	I	Key 1 A/D input.															
15	I-KEY 2	I	Key 2 A/D input.															
16	I-DS 1	I	Deck 1 mechanism switch input.															
17	I-DS 2	I	Deck 2 mechanism switch input.															
18	I-CD/ $\overline{\text{SW}}$	I	CD mechanism switch A/D input.															
19	I-CD/DISH	I	CD turntable photo sensor A/D input.															
20	I-MS	I	Deck MS detection A/D input.															
21	I-DS 3	I	Deck mechanism switch input (REC enable A/D input).															
22	I- $\overline{\text{AC/OFF}}$	I	HOLD input.															
23	I-CD/SENSE	I	CD microprocessor control SENSE input.															
24	I-TYPE	I	TYPE select A/D input. (H : DOLBY C / L : DOLBY B)															
25~26	O-FUNC/A~B	O	FUNCTION switch output. <table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr> <th></th> <th>AUX1</th> <th>AUX2</th> <th>TAPE</th> <th>CD</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>B</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> </tbody> </table>		AUX1	AUX2	TAPE	CD	A	0	1	0	1	B	0	0	1	1
	AUX1	AUX2	TAPE	CD														
A	0	1	0	1														
B	0	0	1	1														
27	O-R-SEL/A	O	Video signal switch. (VIDEO 1/2)															
28	O-R-SEL/B	O	REC output switch. (ON/ $\overline{\text{MUTE}}$)															
29	O-R-SEL/C	O	Monitor output switch. ($\overline{\text{VIDEO}}$ /CDG)															
30	-	-	Not used.															
31~37	G7~G1	O	FL grid output (G7~G1).															
38~40	P21~P19	O	FL segment output P21~P19.															
41	VDD2	-	Power supply input.															
42	-VP	-	Power supply for FL display .															
43~60	P18~P8	O	FL segment output P18~P8.															
61	O-CLOSE	O	CD tray close data output.															
62	O-OPEN	O	CD tray open data output.															
63	O-DI/R	O	CD turntable reverse rotation output.															
64	O-DI/F	O	CD turntable forward rotation output.															
65	O-REC	O	Deck REC switch output.															
66	O- $\overline{\text{SOL1}}$	O	Deck 1 plunger $\overline{\text{ON}}$ /OFF output.															

67	O-SOL2	O	Deck 2 plunger $\overline{\text{ON}}$ /OFF output.
68	O-MOTOR	O	Deck motor $\overline{\text{ON}}$ /OFF output.
69	O-RMT	O	REC mute $\overline{\text{ON}}$ /OFF output.
70	O-STB	O	Front shift register, data latch strobe output.
71	O-CLK	O	Front shift register, data transfer clock output.
72	O-DATA	O	Front shift register, data output.
73	VSS2	-	GND.
74	I/O/SERIAL	I/O	Command input / output with the CD microprocessor.
75	O-CD/DATA	O	CD microprocessor control data output.
76	O-CD/XLT	O	CD microprocessor control latch output.
77	O-CD/CLK	O	CD microprocessor control clock output.
78	I-CD/SQ,DATA	I	CD SUB-Q data input.
79	O-CD/SQ,DATA	O	CD SUB-Q clock output.
80	O-MUTE	O	System mute $\overline{\text{ON}}$ /OFF output.

IC, CXD2508AQ

Pin No.	Pin Name	I/O	Description
1	SCOR	O	IH when the subcode sync S0 or S1 is detected.
2	SBSO	O	SUBP ~ W serial output.
3	EXCK	I	Clock input for SBSO read out.
4	SQSO	O	SUBQ 80-bit serial output.
5	SQCK	I	Clock input for SQSO read out.
6	MUTE	I	H to mute. L to cancel. (Connected to GND)
7	SENS	O	SENS signal output to MAIN CPU.
8	XRST	I	System reset. L to reset.
9	DATA	I	Serial data input from MAIN CPU.
10	XLAT	I	Latch input from MAIN CPU. Latching serial data at fall down.
11	CLOK	I	Clock input from MAIN CPU to transfer serial data.
12	VSS	-	GND.
13	SEIN	I	SENS input from SSP.
14	CNIN	I	Numbers of track jump are counted and input.
15	DATO	O	Serial data output to SSP.
16	XLTO	O	Serial data latched output to SSP. Latched at fall down edge.
17	CLKO	O	Clock input from SSP to transfer serial data.
18	TEST2	I	TEST. (Connected to +5V)
19~21	SPOB~D	I	Input from INSIDE LIMIT switch (SW1).
22	XLON	O	Mute control output.
23	FOK	I	Focus OK input pin. Used for SENS output and servo auto sequencer.
24	MON	O	Spindle motor ON/OFF control output.
25	MDP	O	Spindle motor servo control output.
26	MDS	O	Spindle motor servo control output.
27	LOCK	O	GFS is sampled by 460Hz. H output when GFS is H. L output when GFS is L for 8 consecutive times.
28	TEST1	I	TEST. (Connected to GND)
29	FILO	O	Filter output to master PLL. (Slave = digital PLL)
30	FILI	I	Filter input to master PLL.
31	PCO	O	Charge-pump output to master PLL.
32	VDD	-	Power supply input. (+5V)
33	AVSS1	-	GND.
34	CLTV	I	VCO control voltage input to master PLL.
35	AVDD1	-	Power supply input. (+5V)
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input to asymmetry correction circuit.
38	ASYI	I	Comparator voltage input to asymmetry correction circuit.
39	ASYO	O	EFM full swing output. (L = VSS, H = VDD)
40	ASYE	I	L: asymmetry correction OFF. H: asymmetry correction ON. (Connected to +5V)
41	WCDK	O	D/A interface, word clock (2Fs) for 48-bit slot.

Pin No.	Pin Name	I/O	Description
42	LRCK	O	D/A interface, LR clock (FS) for 48-bit slot.
43	LRCKI	I	LR clock input to DAC. (48-bit slot)
44	PCMD	O	D/A interface, serial data. (2's complement, MSB first)
45	PCMDI	I	Audio data input to DAC. (48-bit slot)
46	BCK	O	D/A interface, bit clock.
47	BCK1	I	Bit clock input to DAC. (48-bit slot)
48	GTOP	O	GTOP output.
49	XUGF	O	XUGF output.
50	XPCK	O	XPLCK output.
51	GFS	O	GFS output.
52	RFCK	O	RFCK output.
53	VSS	-	GND.
54	C2PO	O	C2PO output.
55	XROF	O	XRAOF output.
56	MNT3	O	MNT3 output.
57	MNT1	O	MNT1 output.
58	MNT0	O	MNT0 output.
59	FSTT	O	Pins-73 and -74 divided-by 2/3 output.
60	C4M	O	4.2336MHz output.
61	DOUT	O	Digital Out connector output signal.
62	EMPH	O	H when the play back disk has emphasis. L when it does not.
63	EMPHI	I	DAC emphasis ON/OFF. H when ON. L when OFF.
64	WFCK	O	WFCK (WRITE FRAME CLOCK) output.
65	ZEROL	O	Not sound data detection output. H (L-ch) when no sound data is detected.
66	ZEROR	O	Not sound data detection output. H (L-ch) when no sound data is detected.
67	DTSI	I	TEST for DAC. (Connected to GND)
68	VDD	-	Power supply input. (+5V)
69	NLPWM	O	L-ch PWM output. (Reversed polarity)
70	LPWM	O	L-ch PWM output. (Normal polarity)
71	AVDD2	-	Power supply input to L-ch PWM driver. (Connected to +5V)
72	AVDD3	-	Power supply input to X'tal. (Connected to +5V)
73	XTAI	I	X'tal input to 33.8688MHz oscillator circuit.
74	XTAO	O	33.8688MHz X'tal oscillator circuit output.
75	AVSS1	-	Power supply input to X'tal. (Connected to GND)
76	AVSS2	-	Power supply input to PWM driver. (Connected to GND)
77	NRPWM	O	R-ch PWM output. (Reversed phase)
78	RPWM	O	R-ch PWM output. (Normal phase)
79	DTS2	I	TEST-2 for DAC. (Connected to GND)
80	DTS3	I	TEST-3 for DAC. (Connected to GND)

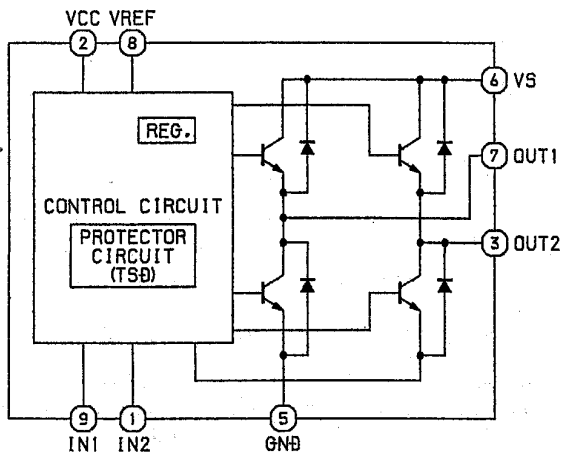
IC, CXA1782BQ

Pin No.	Pin Name	I/O	Description
1	FEO	O	Focus error amplifier output pin. This pin is connected to the FZC comparator input internally.
2	FEI	I	Focus error input pin.
3	FDCT	I	Capacitor connection pin for time constant used when there is defect.
4	FGD	I	Corrects the focus servo high frequency gain.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FEO	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TAM	I	Tracking amplifier inverted input pin.
13	TAO	O	Tracking drive output.
14	SLP	I	Sled amplifier non-inverted input pin.
15	SLM	I	Sled amplifier inverted input pin.
16	SLO	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input.
18	VCC	-	+5V power supply pin.
19	CLK	I	Serial data transfer clock input from DSP.
20	XLT	I	Latch input from DSP.
21	DATA	I	Serial data input from DSP.
22	XRST	I	Reset input pin. Reset at L.
23	COUT	O	Signal output to count the number of tracks.
24	SENS	O	FZC, DFCT, TZC, Gain or BAL is output depending on the command to DSP.
25	FOK	O	Output pin of the focus OK comparator.
26	CC2	O	Input pin where the DEFECT bottom hold output is capacitance coupled.
27	CC1	I	DEFECT bottom hold output pin.
28	CB	I	This is a pin where the DEFECT bottom hold capacitor is connected.
29	CP	I	This is a pin where the MIRR hold capacitor is connected and MIRR comparator non-inverted signal is input.
30	RFI	I	Input pin where the RF summing amplifier output is capacitance coupled.
31	RFO	O	RF summing amplifier output pin. (TP1)
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.

Pin No.	Pin Name	I/O	Description
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35~36	PHD1~2	I	RF I-V amplifier inverted input pin. These pins are connected to the A+C and B+D pins of the optical pickup.
37	BIAS	I	Bias adjustment pin of the non-inverted side of the focus error amplifier.
38~39	F~E	I	F and E IV amplifier non-inverted input pins. These pins are connected to the F and E of the optical pickup.
40	EI	-	Gain adjustment pin of the I-V amplifier E.
41	VEE	-	GND connection pin.
42	TEO	O	Tracking error amplifier output pin.
43	LPFI	I	BAL adjustment comparator input pin.
44	TEI	I	Tracking error input pin.
45	ATSC	I	Window comparator input pin for detecting ATSC.
46	TZC	I	Tracking zero-cross comparator input pin.
47	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
48	VC	O	DC voltage output pin of VREF. (VDD/2)

IC BLOCK DIAGRAM

IC, TA7291S

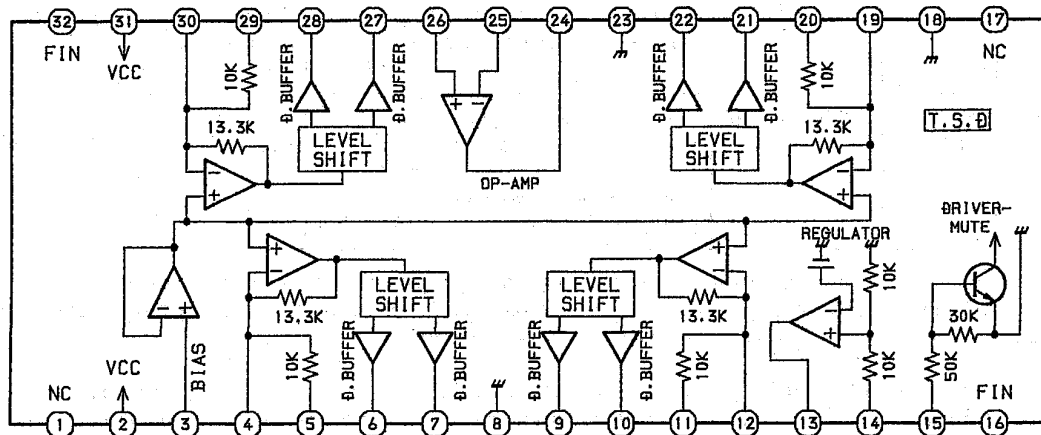


TRUTH TABLE

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

IC, BA6897S



T.S.θ: Thermal shift down circuit
D.BUFFER: Drive Buffer

TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the CD EDIT/CHECK/button. All FL display tubes will light up, and the test mode will be activated.

2. How to cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the power switch button.
- Disconnect the AC plug.

3. CD Test Mode Functions

When test mode is activated, the following mode functions can be used by pressing the operation keys.

Mode	Operation	FL display	Operation	Contents
Start mode	Test mode activation	All FL light up	<ul style="list-style-type: none"> Laser diode illuminated under normal circumstances (CD block power supply ON) 	Displays the machine mode that it is a test mode. All FL displays light up
Search mode	■ key	-- --	<ul style="list-style-type: none"> Continual focus search * NOTE 1 (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. 	FOCUS SERVO <ul style="list-style-type: none"> Laser current measurement (Across R628 resistor) Check focus search waveform Check focus error waveform * FOK / FZC are not monitored in the search mode.
Play mode	▶ key	/ -	<ul style="list-style-type: none"> Normal playback Focus search is continued if TOC cannot be read * NOTE 1 	FOCUS SERVO / TRACKING SERVO CLV SERVO / SLED SERVO Check FOK / FZC
Traverse mode	▬▬ key	/ -	<ul style="list-style-type: none"> During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2 	TRACKING SERVO ON / OFF Tracking balance (traverse) adjustment TP6(SFR602)
Sled mode	◀◀ key ▶▶ key	All FL light up	<ul style="list-style-type: none"> Pickup moves to the outermost track Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

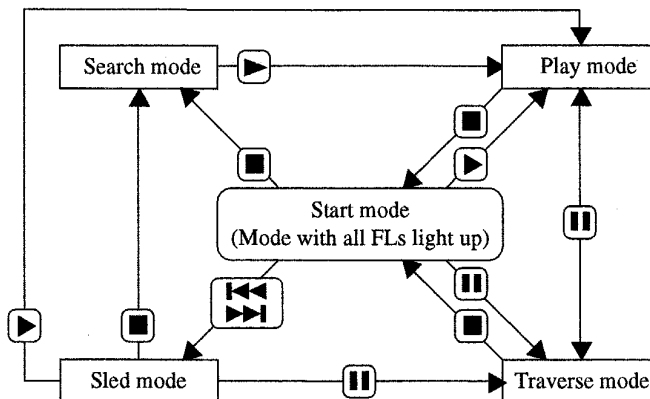
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases, the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

* NOTE 2: Do not press the ◀◀ or ▶▶ keys when the machine is in the ▬▬ status is active. If they are pressed, playback will not be possible after the ▬▬ status has been canceled. If the ◀◀ or ▶▶ keys are pressed in the ▬▬ status, press the ■ key and return to start mode (No. 1).

* NOTE 3: When pressing the ◀◀ or ▶▶ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ◀◀ or ▶▶ keys are pressed, even when the pick-up is at the outermost or innermost track.

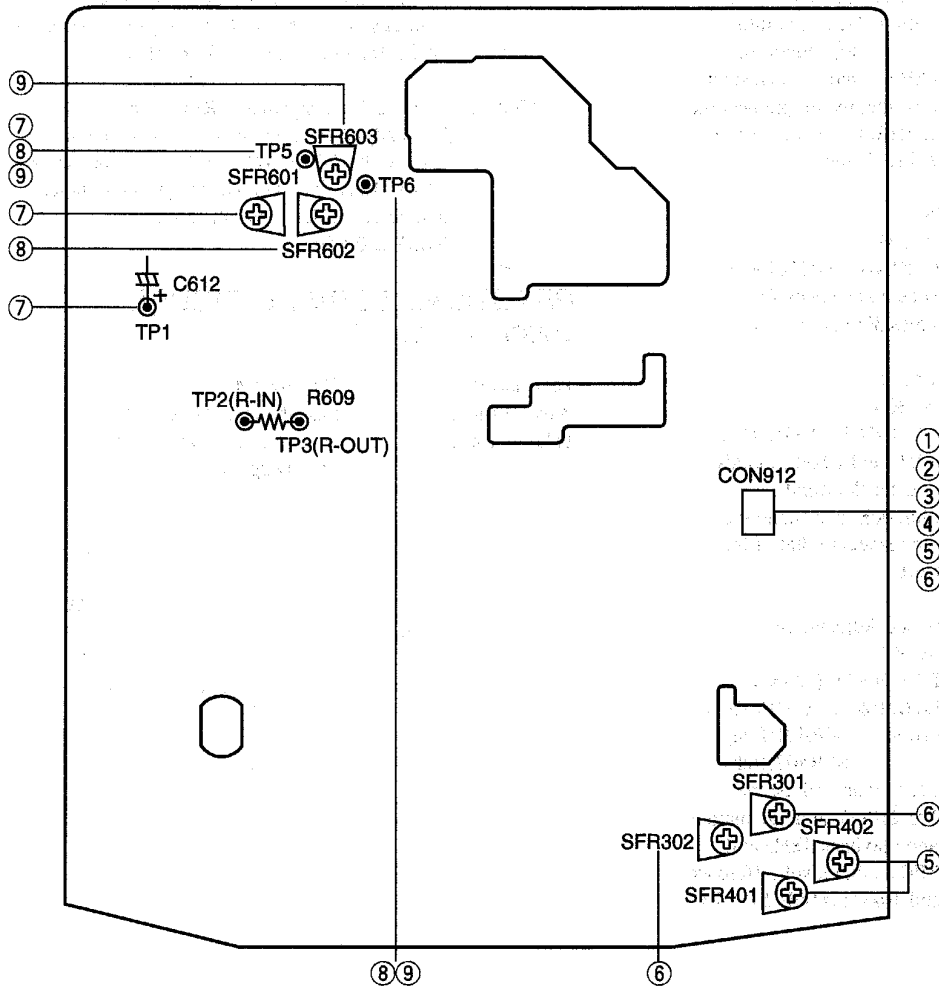
4. Operation Outline

The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.

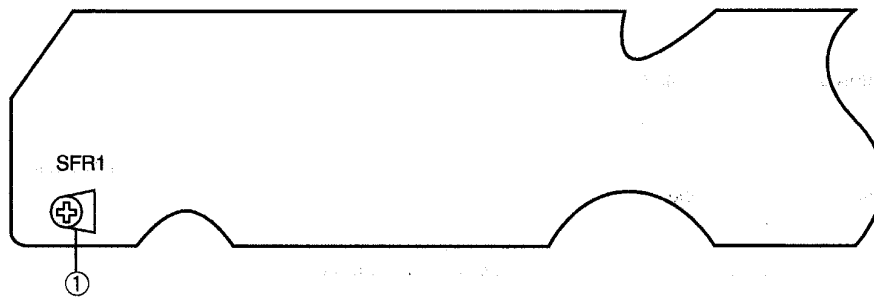


ELECTRICAL ADJUSTMENT

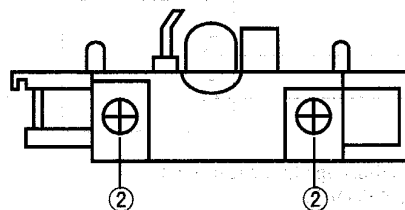
A MAIN C.B



G DECK C.B



DECK R/P E HEAD



< DECK SECTION >

1. Tape Speed Check

- Settings :
- Test tape : TTA-100
 - Test point : TP CONN 3P (CON 912)
 - Adjustment location : SFR1

Method : Play back the test tape and check for $3000\text{Hz} \pm 5\text{Hz}$.

(NOTE) : RVS SIDE SPEED SPECIFICATION
FWD SIDE SPECIFICATION $\pm 45\text{Hz}$

2. Head Azimuth Adjustment (DECK 1,2)
 Settings : • Test tape : TTA-300
 • Test point : TP CONN 3P (CON 912)
 • 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.
3. PB Sensitivity Check (DECK 1,2)
 Settings : • Test tape : TTA-200
 • Test point : TP CONN 3P (CON 912)
 Method : Playback the test tape and check for output level becomes $300\text{mV} \pm 5\text{mV}$.
4. PB Frequency Response Check
 Settings : • Test tape : TTA-300
 • Test point : TP CONN 3P (CON 912)
 Method : Play back the 315Hz and 10kHz signals of the test tape and check output difference to within $0\text{dB} \pm 2\text{dB}$, and the 10kHz signal with respect to that of the 315Hz signal is 2dB.
5. REC / PB Frequency Response Adjustment
 Settings : • Test tape : TTA-602
 • Test point : TP CONN 3P (CON 912)
 • Input signal : 1kHz/10kHz (VIDEO2/AUX IN)
 • Adjustment location : SFR401(Lch)
 SFR402(Rch)
 Method : Establish the record mode. Adjust the CON 912 signal to 210mV and attenuate to -20dB. Record and playback 1kHz and 10kHz. Adjust SFR so that level difference between 1kHz and 10kHz is $0\text{dB} \pm 0.3\text{dB}$.

6. REC/PB Sensitivity Adjustment (DECK 2)
 Settings : • Test tape : TTA-602
 • Test point : TP CONN 3P (CON 912)
 • Input signal : 1kHz/10kHz (VIDEO2/AUX IN)
 • Adjustment location : SFR301 (Lch)
 SFR302 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP CONN 3P(CON 912) becomes 21mV. Record and playback the 1kHz signal and adjust SFRs so that the output is $21\text{mV} \pm 0.5\text{dB}$.

PRACTICAL SERVICE FIGURE <DECK SECTION>

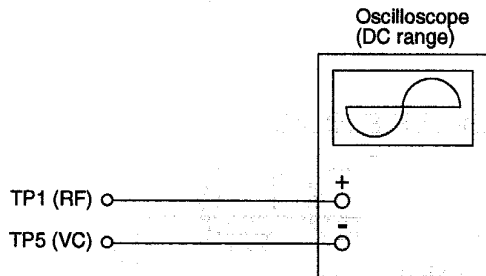
Tape speed :	3000Hz \pm 45Hz
Wow & flutter :	Less than 0.35% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
Distortion :	Less than 2.0% (PB, AC) Less than 3.0% (REC/PB, AC)
Noise level :	Less than 50mV (PB, AC) Less than 50mV (REC/PB, AC)
Signal to noise ratio :	More than 40dB (PB, AC) More than 38dB (REC/PB, AC)
Erasing ratio :	More than 60dB (at 125Hz)
Test tape :	TTA-602

<CD SECTION>

Note :

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

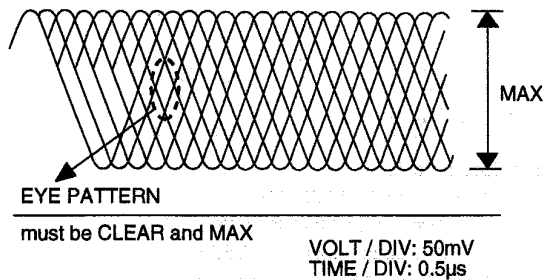
7. Focus Bias Adjustment
 Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test points TP1 (RF) and TP5 (VC).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.

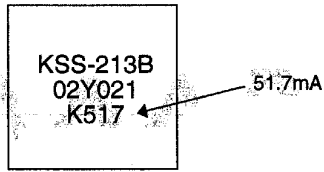
- 4) Adjust SFR601 so that RF signal of the test point TP1 (RF) is MAX and CLEARREST.

RF signal waveform



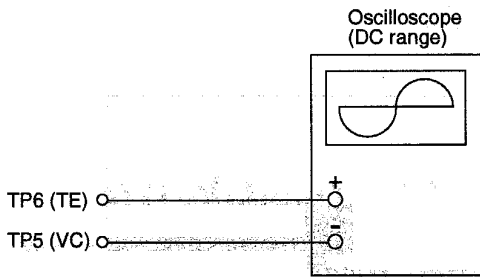
Note:

The current of the laser signal can be checked with the voltages on both sides of R628 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

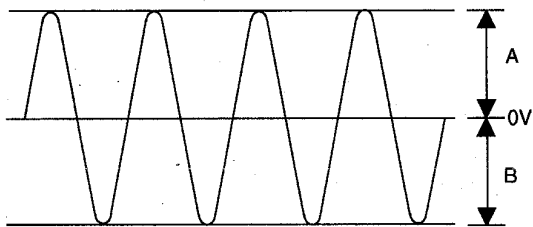


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R628}}{10}$$

8. Tracking Balance Adjustment



- 1) Connect an oscilloscope to the test points TP6 (TE) and TP5 (VC).
- 2) Start the CD test mode.
- 3) Insert test disc TCD-782 (YEDS-18) and become traverse mode of CD test mode.
- 4) Adjust SFR602 so that the traverse waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After the adjustment is completed, remove the connected lead wires from the terminals.
- 6) Cansel the CD test mode.



VOLT / DIV: 20mV
TIME / DIV: 1mS

9. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem.

Therefore, do not perform this adjustment. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocate, the adjustment is performed at the point where both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is not satisfied, the symptoms below appear.

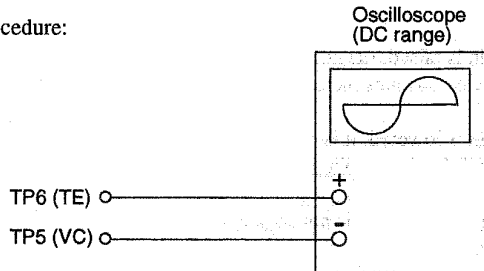
Symptoms	Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → -PLAY or automatic selection (⏮, ⏭ buttons pressed.) (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP → -PLAY or automatic selection (⏮, ⏭ buttons pressed.)		-	low
• Disc stops to rotate shortly after STOP → -PLAY.		low or high	-
• Sound is interrupted during PLAY. Or time counter display stops.		-	low
• More noises during the 2-axis device operation.		high	high

The following is simple adjustment method.

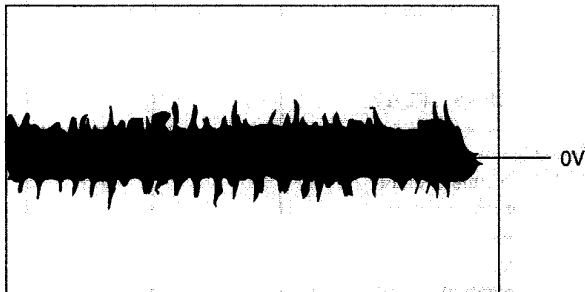
– Simple adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP6 (TE) of the MAIN C.B.
- 4) Adjust SFR603 so that the waveform appears as shown in the figure below. (tracking gain adjustment)

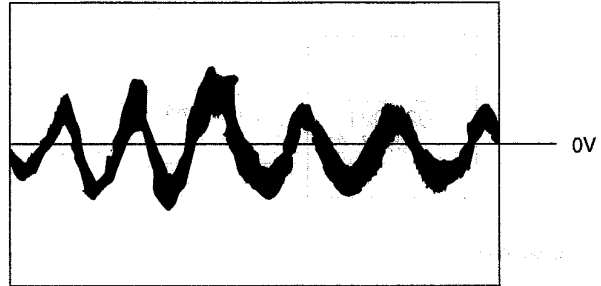


VOLT / DIV: 50mV
TIME / DIV: 1mS

• Incorrect example

Low tracking gain

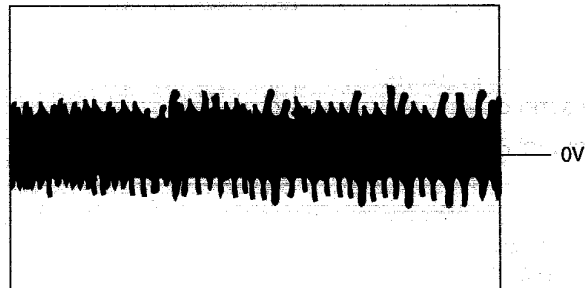
(The fundamental wave appears as compared with the waveform adjusted)



VOLT / DIV: 50mV
TIME / DIV: 1mS

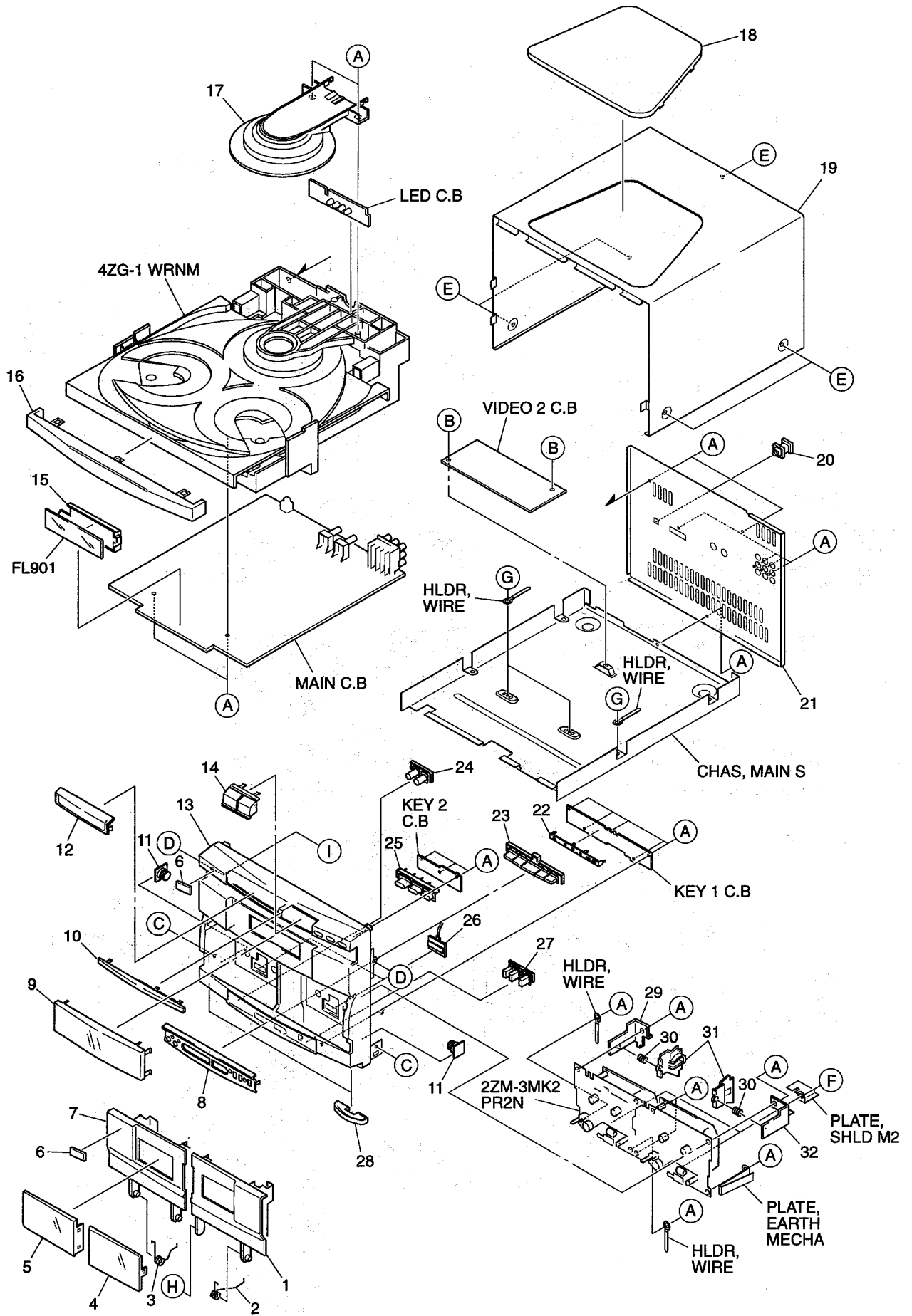
High tracking gain

(The frequency of the fundamental wave is higher than in low gain)



VOLT / DIV: 50mV
TIME / DIV: 1mS

MECHANICAL EXPLODED VIEW 1 / 1

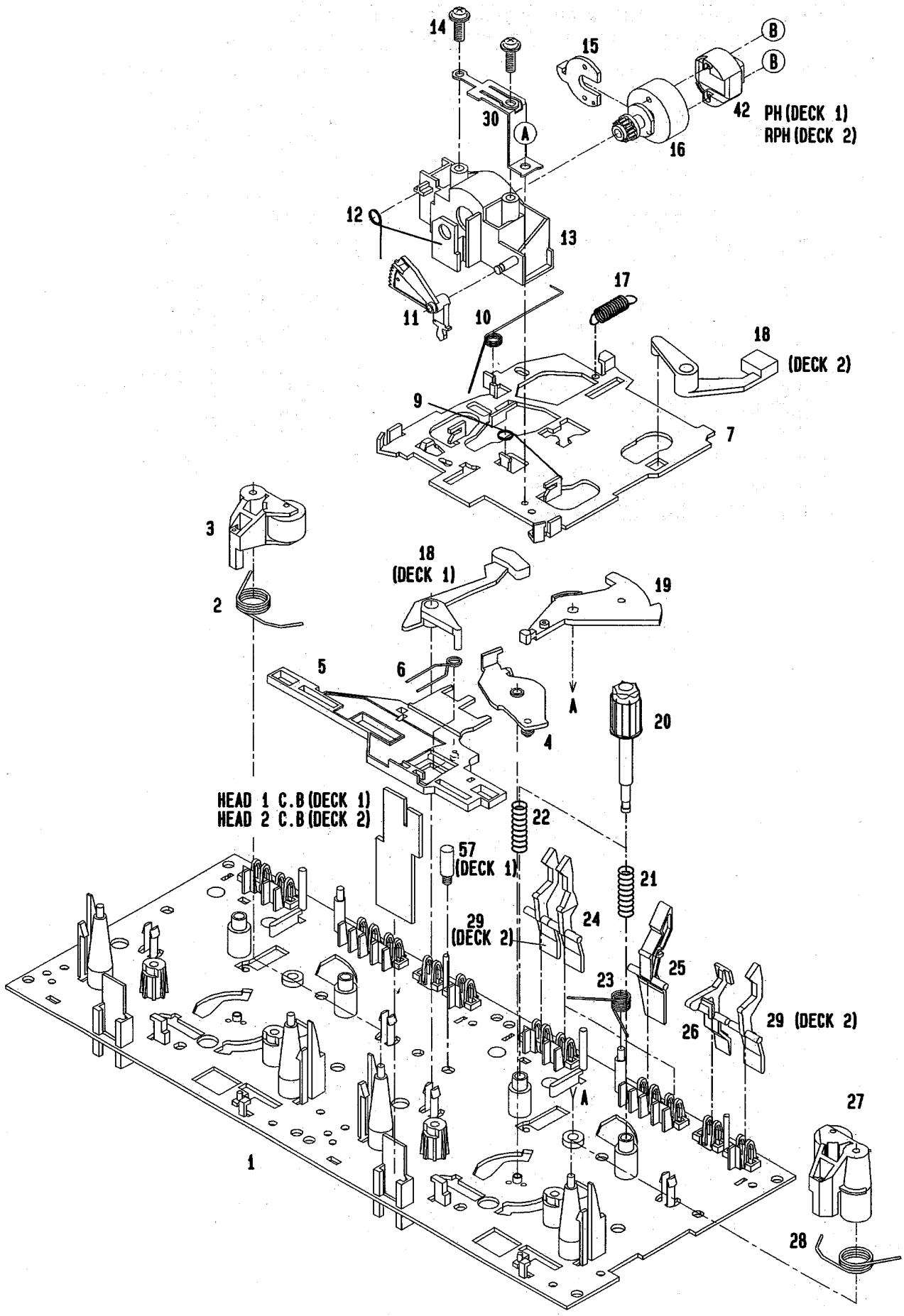


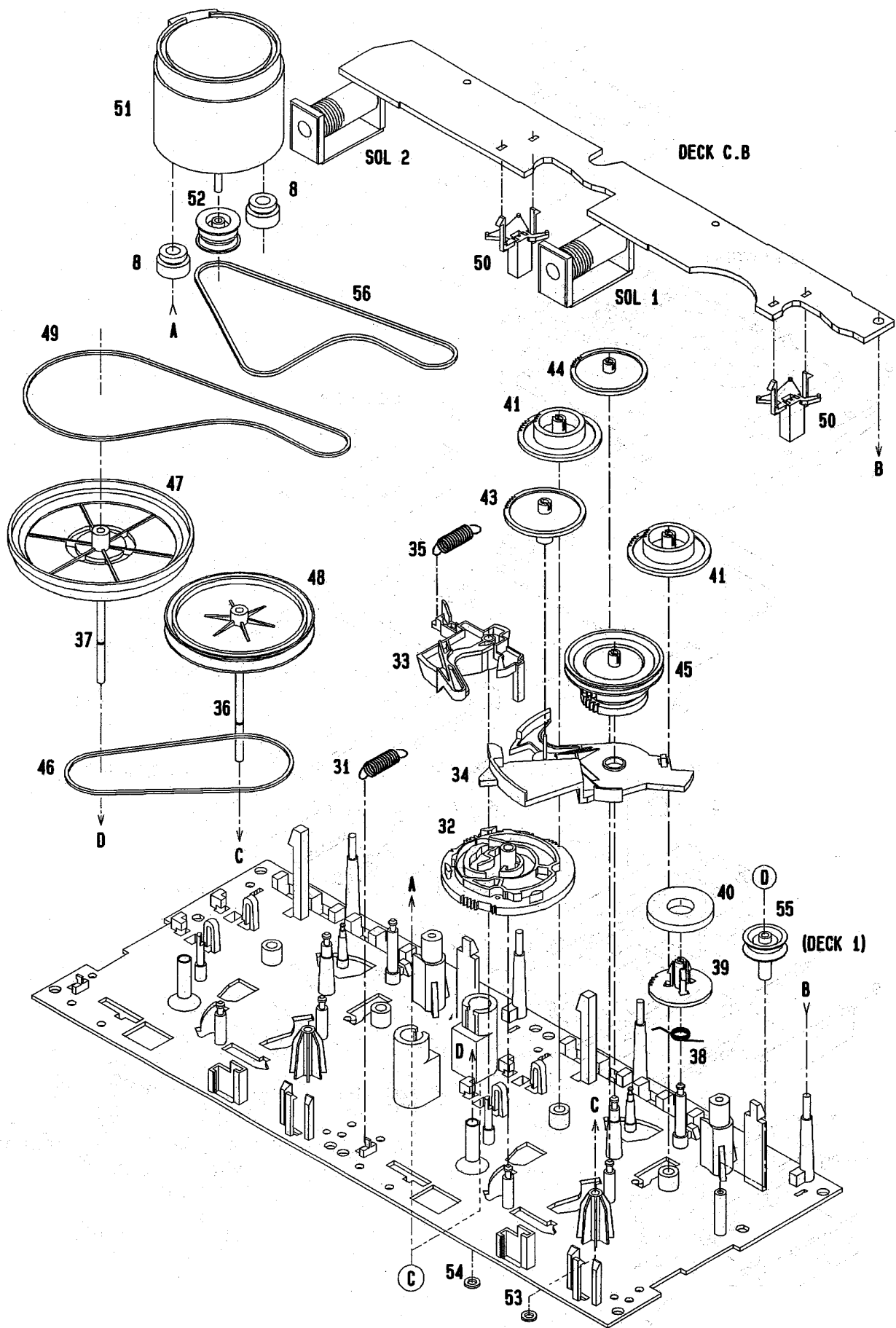
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	カンリ NO.	DESCRIPTION	REF. NO.	PART NO.	カンリ NO.	DESCRIPTION
1	86-NV1-004-019		BOX, CASS 2	22	86-NV1-202-019		GUIDE, LED
2	83-NV4-202-119		SPR-T, EJECT 2	23	86-NV1-010-019		KEY, PLAY
3	83-NV4-201-119		SPR-T, EJECT 1	24	86-NV1-013-019		KEY, REC
4	86-NV1-009-019		WINDOW, CASS 2	25	86-NV1-012-019		KEY, DISC
5	86-NV1-008-019		WINDOW, CASS 1	26	87-070-108-019		LED, SLF-301C-37
6	82-NE8-032-019		BADGE AIWA 27.5	27	86-NV1-014-019		KEY, DOLBY
7	86-NV1-003-019		BOX, CASS 1	28	85-NC1-019-019		RING, FOOT<YSTMN>
8	86-NV1-015-019		PANEL, CONTROL	28	85-NC1-019-010		RING, FOOT<EXCEPT YSTMN>
9	86-NV1-006-019		WINDOW, DISPLAY	29	82-NF5-226-019		HLDR, LOCK 1N
10	86-NV1-016-019		PANEL, CD	30	82-NF5-228-019		SPR-C, LOCK
11	87-063-165-019		OIL-DMPR 150	31	82-NF5-229-019		PLATE, LOCK
12	86-NV1-007-019		WINDOW, CD	32	82-NF5-227-019		HLDR, LOCK 2N
13	86-NV1-001-019		CABI, FR<EXCEPT YUSTMN>	A	87-067-703-019		BVT2+3-10 (W/O SLOT)
13	86-NV1-020-019		CABI, FR U<YUSTMN>	B	87-067-584-019		BVT2+3-6 W/O SLOT
14	86-NV1-011-019		KEY, OPEN	C	87-591-094-419		QIT + 3 - 6 GOLD
15	86-NV1-201-019		GUIDE, FL	D	87-721-097-419		QT2+3-12 GLD
16	86-NV1-005-019		PANEL, TRAY	E	87-067-641-019		UTT2+3-8 W/O SLOT BLK
17	84-ZG1-011-019		REFLECTOR, CD	F	87-571-032-419		VIT+2-3
18	86-NF6-007-019		WINDOW, TOP	G	87-571-092-419		VIT+3-4
19	86-NV1-017-019		CABI, STEEL	H	82-NE8-215-019		W, 4.2-6.8-0.18
20	84-ZG1-245-019		CAP, OPTICAL	I	85-NF7-599-019		PVC W, 3.2-8-0.3
21	86-NV1-018-019		PANEL, REAR YBNM<YSTMN>				
21	86-NV1-002-019		PANEL, REAR YJBNM<YJSTMN>				
21	86-NV1-021-019		PANEL, REAR YLBNM<YLSTMN>				
21	86-NV1-019-019		PANEL, REAR YUBNM<YUSTMN>				

TAPE MECHANISM EXPLODED VIEW 1 / 1



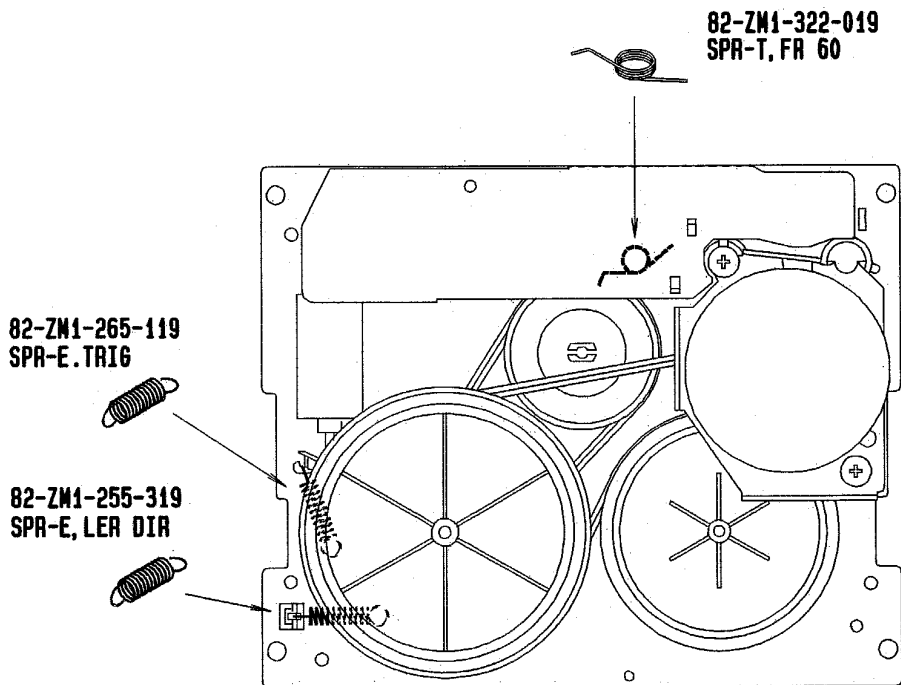
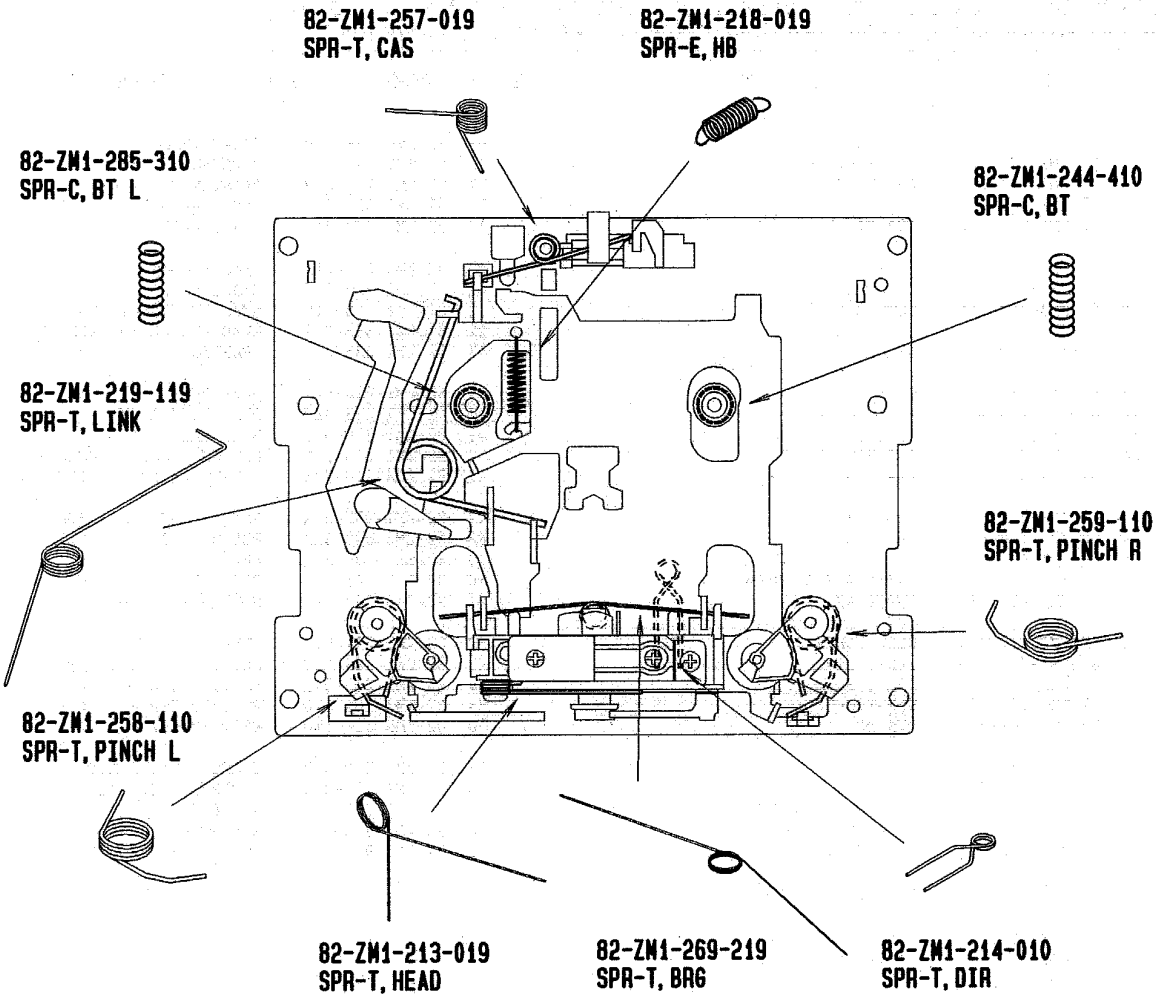


TAPE MECHANISM PARTS LIST 1 / 1

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REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ 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-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-ZM3-329-210		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				

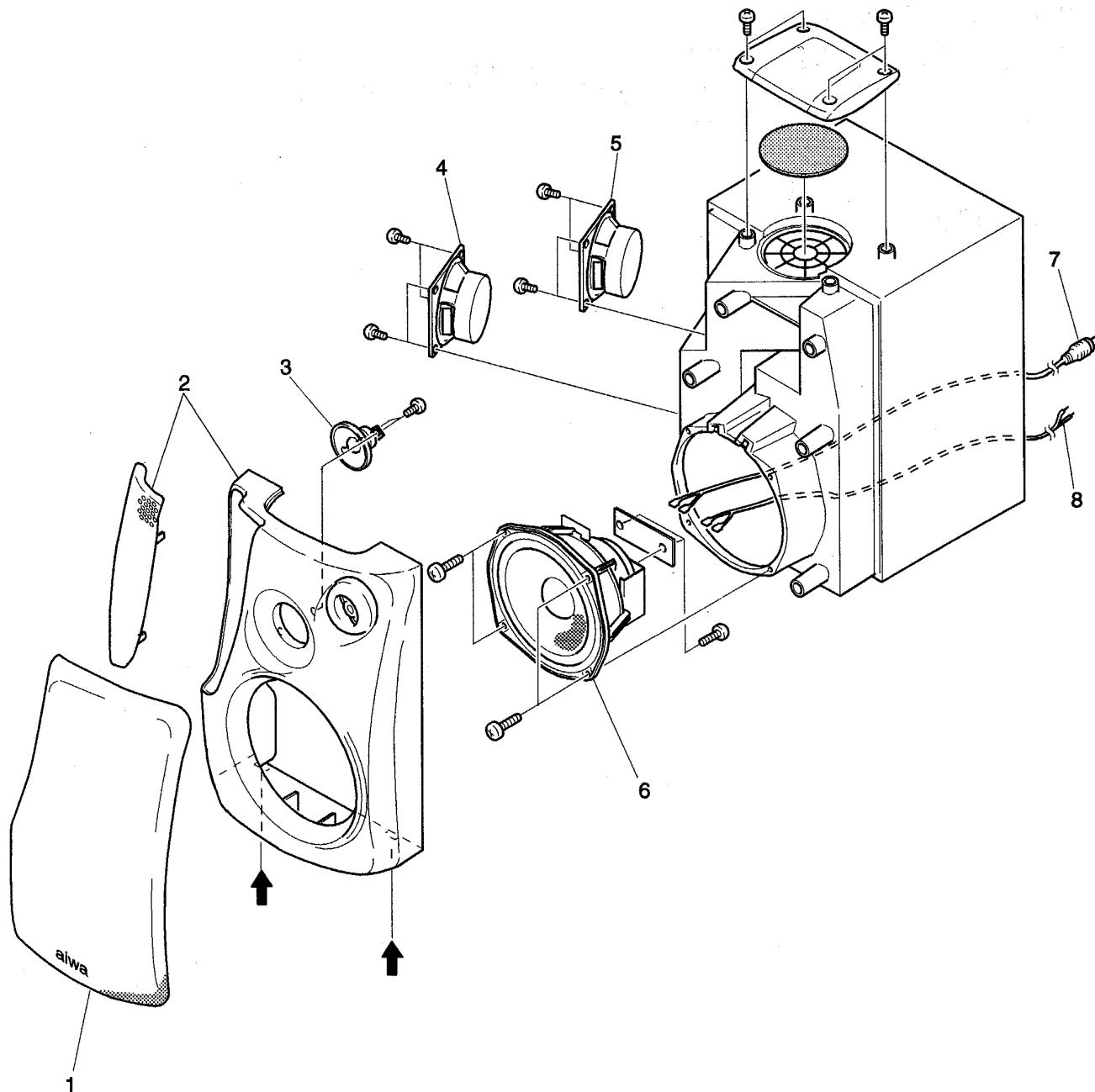
SPRING APPLICATION POSITION



MODEL NO.

SX-ANH9

SPEAKER EXPLODED VIEW 1 / 1



SPEAKER PARTS LIST 1 / 1

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	86-NS1-010-010		GRILLE FRAME ASSY, R	4	86-NS1-606-010		SPKR S 80
1	86-NS1-011-010		GRILLE FRAME ASSY, L	5	86-NS1-604-010		SPKR M 80
2	86-NS1-001-010		PANEL FR, R	6	86-NS1-602-010		SPKR W 140H
2	86-NS1-002-010		PANEL FR, L	7	85-NS6-611-019		SPEAKER CORD Y/B
3	86-NS1-608-010		SPKR T 50	8	83-NS5-613-019		SPEAKER CORD ASSY

MODEL NO.

SX-NM9

SPEAKER PARTS LIST 1 / 1

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

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	86-NSM-004-010		GRILL FRAME ASSY
2	86-096-614-010		SPEAKER CORD
3	86-NSM-602-010		SPEAKER W 160
4	86-MS2-604-010		SPEAKER TW 25

■ ACCESSORIES / PACKAGE LIST

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	86-NT1-904-010		IB, E(EGFSI)M<H9>
1	86-NT1-905-010		IB, E(EGFSI)M NM9<M9>
2	85-NF5-631-010		RC UNIT, RC-T501
3	87-006-225-010		ANT, LOOP ANT NC2
4	87-043-106-010		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
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

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

サービス技術ニュース	
番号	連絡内容
G - -	
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