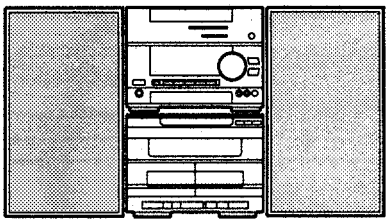
aiwa

aiwa SERVICE

XR-H100

SERVICE MANUAL



CD STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR2NM
- BASIC CD MECHANISM : 4ZG-1 WRNM
- TYPE: EZ

SYSTEM	AMPLIFIER/ TUNER	CASSETTE DECK/ CD PLAYER	SPEAKER	REMOTE CONTROLLER
XR-H100	RX-NH100	FD-NH100	SX-ANH100	RC-T501

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

S/M Code No. 09-977-207-3FE

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SPECIFICATIONS

STEREO RECEIVER RX-NH100

<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 200 W + 200 W

*without connecting to the SURROUND SPEAKERS

Total harmonic distortion	0.1 % (60 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO 1/MD IN: 200 mV (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, 50Hz
Power consumption	140 W (System 160 W)
Dimensions of main unit (W x H x D)	260 x 199 x 333 mm
Weight of main unit	6.6 kg

STEREO CASSETTE DECK/COMPACT DISC PLAYER FD-NH100

<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: Playhead x 1 Deck 2: Recording/playback/ erase head x 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 x H x D)	260 x 204 X 320.2 mm
Weight	4 kg

<SPEAKER SYSTEM SX-ANH100>

Cabinet type	4 way, bass reflex with surround speaker (magnetic shielded 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 x H x D)	250 x 405 x 286 mm
Weight	5 kg

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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  Under license from BBE Sound, Inc.

MODEL NO.

RX-NH100

ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-NT1-619-010		IC,LC866440W-5E65
	87-A20-650-010		IC,RPM6938-V11
	87-017-915-080		IC,BU4094BCF
	87-A20-056-010		IC,BA3880S
	87-A20-107-010		IC,BA3836
	87-A20-083-010		IC,BA3835S
	87-017-804-010		IC,BU4052BCP
	87-017-888-080		IC,NJM4558MD
	87-A20-067-040		IC,M65849FP
	87-017-914-010		IC,BU4094 BCP
	87-A20-069-040		C-IC,BA3842F
	87-070-127-110		IC,LC72131 D
	87-017-714-110		IC,LA1836
	87-A20-440-040		C-IC,BU1920FS
TRANSISTOR			
	87-A30-086-070		C-TR,CSD1306E
	89-213-702-010		TR,2SB1370 (1.8W)
	89-109-352-080		TR,2SA935Q
	87-026-610-080		TR,KTC3198GR
	87-A30-083-080		TR,CSD1489B
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	89-324-122-080		TR,2SC2412K
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN 1016
	87-A30-098-010		TR,FP 1016
	87-A30-089-010		FET,2SK2723
	87-026-226-080		CHIP-TR,DTA143EK
	89-110-372-080		TR,2SA1037Y(140MHZ 200MW)
	87-026-211-080		TR,DTA144EK
	87-026-230-080		CHIP-TR,DTA114YK
	87-026-227-080		C-TR,DTA114EK
	87-026-235-080		CHIP-TR,DTC114EK
	87-026-229-080		TR,DTA143XK
	89-112-965-080		TR,2SA1296 (0.75W)
	87-026-228-080		TR,DTA124EK
	89-109-521-080		TR,2SA952 (0.6W)
	87-A30-047-080		TR,CSD655E
	87-A30-087-080		C-FET,2SK2158
	87-026-214-080		TR,DTA114YS (0.3W)
	89-327-143-080		TR,2SC2714 (0.1W)
	89-505-434-540		C-FET,2SK543(4/5)
	87-026-269-080		TR,DTA114ES
	87-026-213-080		TR,DTC114YK
DIODE			
	87-A40-116-060		DIODE,RS403L-B-D-51
	87-A40-115-060		DIODE,RS603M
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-020-027-080		CHIP-DIODE 1SS184
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-210-080		ZENER,UZ30BSD
	87-070-345-080		DIODE,IN4148
	87-A40-205-080		ZENER,UZ6.2BSC
	87-017-436-080		ZENER,UZ4.7BSA
	87-017-437-080		DIODE,IN4148M
	87-A40-274-010		DIODE,FMB-G16L
	87-A40-202-080		ZENER,UZ5.1BSB
	87-017-481-080		ZENER,UZ5.6BSB
MAIN C.B			
C101	87-016-520-090		CAP,E 3300-65
C102	87-016-520-090		CAP,E 3300-65
C104	87-010-235-080		CAP,E 470-16 SME
C105	87-010-235-080		CAP,E 470-16 SME
C106	87-016-285-080		CAP,E 47-100SME
C107	87-010-407-080		CAP, ELECT 33-50V
C108	87-010-406-080		CAP, ELECT 22-50V
C109	87-010-263-080		CAP, ELECT 100-10V
C112	87-010-382-080		CAP, ELECT 22-25V
C113	87-010-403-080		CAP, ELECT 3.3-50V
C116	87-012-140-080		CAP 470P
C121	87-012-368-080		C-CAP,S 0.1-50 F
C122	87-012-368-080		C-CAP,S 0.1-50 F
C123	87-012-368-080		C-CAP,S 0.1-50 F
C124	87-012-368-080		C-CAP,S 0.1-50 F
C125	87-010-264-040		CAP,E 100-10 5L
C126	87-010-189-010		CAP, CHIP S 8200P
C127	87-010-189-010		CAP, CHIP S 8200P
C152	87-010-260-080		CAP, ELECT 47-25V
C163	87-018-212-080		CAP,TC-U 0.022-50 Z F
C164	87-018-212-080		CAP,TC-U 0.022-50 Z F
C165	87-010-197-080		C-CAP,S 0.01-25 K B
C166	87-010-197-080		C-CAP,S 0.01-25 K B
C171	87-016-658-090		CAP,E 4700-35 SMG
C172	87-016-658-090		CAP,E 4700-35 SMG
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C175	87-012-368-080		C-CAP,S 0.1-50 F
C176	87-012-368-080		C-CAP,S 0.1-50 F
C201	87-010-401-080		CAP, ELECT 1-50V
C202	87-010-401-080		CAP, ELECT 1-50V
C205	87-010-182-080		C-CAP,S 2200P-50 B
C207	87-010-404-080		CAP, ELECT 4.7-50V
C208	87-010-404-080		CAP, ELECT 4.7-50V
C209	87-010-497-040		CAP,E 4.7-35 GAS
C210	87-010-497-040		CAP,E 4.7-35 GAS
C211	87-010-184-080		CHIP CAPACITOR 3300P(K)
C212	87-010-184-080		CHIP CAPACITOR 3300P(K)
C213	87-010-260-080		CAP, ELECT 47-25V
C214	87-010-260-080		CAP, ELECT 47-25V
C215	87-010-196-080		CHIP CAPACITOR,0.1-25
C217	87-010-246-080		CAP, ELECT 47-35V
C225	87-A10-516-080		C-CAP,S 100P-200 CH
C226	87-A10-516-080		C-CAP,S 100P-200 CH
C229	87-016-461-080		C-CAP,S 0.47-16 Z F
C230	87-016-461-080		C-CAP,S 0.47-16 Z F
C233	87-010-196-080		CHIP CAPACITOR,0.1-25
C234	87-010-196-080		CHIP CAPACITOR,0.1-25
C235	87-010-196-080		CHIP CAPACITOR,0.1-25
C236	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-184-080		CHIP CAPACITOR 3300P(K)
C402	87-010-184-080		CHIP CAPACITOR 3300P(K)
C403	87-010-405-080		CAP, ELECT 10-50V
C404	87-010-405-080		CAP, ELECT 10-50V
C405	87-010-260-080		CAP, ELECT 47-25V
C406	87-010-101-080		CAP, ELECT 220-16
C407	87-010-188-080		CAP,CHIP 6800P
C408	87-010-188-080		CAP,CHIP 6800P
C409	87-018-127-080		CAP, CER 470P-50V
C410	87-018-127-080		CAP, CER 470P-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C411	87-010-197-080		CAP, CHIP 0.01 DM
C412	87-010-197-080		CAP, CHIP 0.01 DM
C413	87-010-195-080		C-CAP,S 0.068-25 F
C414	87-010-195-080		C-CAP,S 0.068-25 F
C415	87-010-404-080		CAP, ELECT 4.7-50V
C416	87-010-404-080		CAP, ELECT 4.7-50V
C417	87-010-404-080		CAP, ELECT 4.7-50V
C418	87-010-404-080		CAP, ELECT 4.7-50V
C419	87-010-544-080		CAP, ELECT 0.1-50V
C500	87-010-197-080		CAP, CHIP 0.01 DM
C501	87-010-183-080		C-CAP,S 2700P-50 B
C502	87-010-194-080		CAP, CHIP 0.047
C503	87-010-196-080		CHIP CAPACITOR,0.1-25
C504	87-010-263-080		CAP, ELECT 100-10V
C505	87-010-404-080		CAP, ELECT 4.7-50V
C506	87-010-404-080		CAP, ELECT 4.7-50V
C507	87-010-545-080		CAP, ELECT 0.22-50V
C509	87-010-194-080		CAP, CHIP 0.047
C510	87-010-384-080		CAP, ELECT 100-25V
C511	87-010-404-080		CAP, ELECT 4.7-50V
C512	87-010-404-080		CAP, ELECT 4.7-50V
C542	87-018-209-080		CAP,TC-U 0.1-50 Z F
C600	87-010-405-080		CAP, ELECT 10-50V
C601	87-010-213-080		C-CAP,S 0.015-50 B
C602	87-010-213-080		C-CAP,S 0.015-50 B
C605	87-010-544-080		CAP, ELECT 0.1-50V
C606	87-010-544-080		CAP, ELECT 0.1-50V
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-196-080		CHIP CAPACITOR,0.1-25
C620	87-010-318-080		C-CAP,S 47P-50 CH
C621	87-010-318-080		C-CAP,S 47P-50 CH
C622	87-010-318-080		C-CAP,S 47P-50 CH
C633	87-012-142-080		CAP, S 0.33-16
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-018-209-080		CAP, CER 0.1-50V
C636	87-010-196-080		CHIP CAPACITOR,0.1-25
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C715	87-010-197-080		CAP, CHIP 0.01 DM
C716	87-010-197-080		CAP, CHIP 0.01 DM
C722	87-010-152-080		C-CAP,S 8P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C760	87-010-197-080		CAP, CHIP 0.01 DM
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C770	87-010-405-080		CAP, ELECT 10-50V
C771	87-010-405-080		CAP, ELECT 10-50V
C772	87-010-194-080		CAP, CHIP 0.047
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-248-080		CAP, ELECT 220-10V
C775	87-010-405-080		CAP, ELECT 10-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-197-080		CAP, CHIP 0.01 DM
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C787	87-010-184-080		CHIP CAPACITOR 3300P(K)
C788	87-010-184-080		CHIP CAPACITOR 3300P(K)
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-401-080		CAP, ELECT 1-50V
C792	87-010-182-080		C-CAP,S 2200P-50 K B
C793	87-010-189-080		C-CAP,S 8200P-50 B
C794	87-010-408-080		CAP, ELECT 47-50V
C795	87-010-194-080		CAP, CHIP 0.047
C796	87-010-403-080		CAP, ELECT 3.3-50V
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-018-134-080		CAPACITOR,TC-U 0.01-16
C816	87-018-134-080		CAPACITOR,TC-U 0.01-16
C817	87-010-197-080		CAP, CHIP 0.01 DM
C818	87-010-197-080		CAP, CHIP 0.01 DM
C819	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-408-080		CAP, ELECT 47-50V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-405-080		CAP,E 10-50 SME
C861	87-010-196-080		CHIP CAPACITOR,0.1-25
C862	87-012-156-080		C-CAP,S 220P-50 C H
C863	87-018-123-080		CAP,TC-U 220P-50 K B
C864	87-010-315-080		C-CAP,S 27P-50 C H
C865	87-010-315-080		C-CAP,S 27P-50 C H
C866	87-010-196-080		CHIP CAPACITOR,0.1-25
C867	87-018-127-080		CAP,TC-U 470P-50 K B
C868	87-010-405-080		CAP,E 10-50 SME
C869	87-010-197-080		C-CAP,S 0.01-25 K B
C872	87-010-196-080		CHIP CAPACITOR,0.1-25
C880	87-010-197-080		C-CAP,S 0.01-25 K B
C940	87-010-197-080		CAP, CHIP 0.01 DM
C942	87-010-150-080		C-CAP,S 6P-50 D C H
C946	87-010-401-080		CAP, ELECT 1-50V
C949	87-014-049-080		CAP,PP 470P-100 J
C952	87-010-197-080		C-CAP,S 0.01-25 K B
C957	87-010-315-080		C-CAP,S 27P-50 C H
C958	87-010-197-080		C-CAP,S 0.01-25 K B
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
CF801	87-008-423-080		FILTER, SFE10.7MS3GH-A-TF21
CF802	82-785-747-080		CF,MS2 GHY,R
FB143	87-008-372-080		FILTER, EMI BL OIRNI
FFE801	A8-6ZA-191-030		6ZA-1 FEENM
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-099-801-010		JACK,PIN 1P BLK
J254	87-033-240-010		TERMINAL,4P HSP-324 V1-05
J801	87-033-241-010		TERMINAL,ANT 2P AJ-2039
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L701	87-003-293-010		COIL, TRAP MPX
L702	87-003-293-010		COIL, TRAP MPX
L741	87-A50-015-010		COIL,FM DET(TOK)
L742	87-A90-051-010		FLTR,CFAZ-450(TOK)
L770	87-003-143-080		COIL 4.7 UH
L832	87-003-098-080		COIL,2.2UH
L850	87-003-098-080		COIL,2.2UH
L941	87-A50-020-010		COIL,ANT LW(COI) 252KHZ
L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ
L981	86-NF4-665-010		AM PACK 1(TOK)
LED321	87-070-281-080		LED,SLZ736A-25-S-T1
LED322	87-070-281-080		LED,SLZ736A-25-S-T1
LED323	87-070-281-080		LED,SLZ736A-25-S-T1
LED324	87-070-281-080		LED,SLZ736A-25-S-T1
LED325	87-070-281-080		LED,SLZ736A-25-S-T1
LED331	87-070-281-080		LED,SLZ736A-25-S-T1
LED332	87-070-281-080		LED,SLZ736A-25-S-T1
LED333	87-070-281-080		LED,SLZ736A-25-S-T1
LED334	87-070-281-080		LED,SLZ736A-25-S-T1
LED335	87-070-281-080		LED,SLZ736A-25-S-T1
⚠ PR201	87-A90-195-080		PROTECTOR 7A 125V 491
⚠ PR202	87-A90-195-080		PROTECTOR 7A 125 V 491
R117	87-022-394-080		RES,NF 0.47-1/4WJ

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R229	87-A00-258-080		RES,M/F 0.22-1W J
R230	87-A00-258-080		RES,M/F 0.22-1W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
RY101	87-A90-464-010		RELAY, DG12D2-O(M)
SFR722	87-024-432-080		SFR,4.7K RH063EC
TC701	87-011-221-080		CAP, TRIMMER 30P
TC942	87-011-221-080		CAP, TRIMMER 30P
TH201	87-A90-221-080		C-THMS,100K
TH202	87-A90-221-080		C-THMS,100K
W101	85-NF5-628-010		F-CABLE 7P-2.5
W304	87-NT1-650-010		CORD,FG15P
X703	84-508-618-010		VIBRATER CSB456 F15
X721	87-030-372-010		VIB,XTAL 7.2MHZ
X850	89-KT1-608-010		X'TAL,4.332MHZ
FRONT C.B			
C201	87-010-555-040		CAP,E 100-10 GAS
C202	87-010-497-040		CAP,E 4.7-35 GAS
C203	87-010-494-040		CAP,E 1-50 GAS
C204	87-A10-189-040		CAP,E 220-10
C205	87-010-196-080		CHIP CAPACITOR,0.1-25
C206	87-010-196-080		CHIP CAPACITOR,0.1-25
C215	87-010-405-040		CAP,E 10-50
C216	87-010-405-040		CAP,E 10-50
C217	87-010-408-040		CAP,E 47-50 SME
C221	87-010-312-080		C-CAP,S 15P-50 CH
C222	87-010-180-080		C-CER 1500P
C223	87-010-498-040		CAP,E 10-16 GAS
C224	87-012-145-080		CAP, CHIP S 270P CH
C301	87-010-196-080		CHIP CAPACITOR,0.1-25
C302	87-010-196-080		CHIP CAPACITOR,0.1-25
C303	87-010-196-080		CHIP CAPACITOR,0.1-25
C350	87-010-112-040		CAP,E 100-16
C370	87-010-112-040		CAP,E 100-16
C501	87-010-322-080		C-CAP,S 100P-50 CH
C502	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-010-196-080		CHIP CAPACITOR,0.1-25
C504	87-010-196-080		CHIP CAPACITOR,0.1-25
C505	87-010-196-080		CHIP CAPACITOR,0.1-25
C506	87-010-196-080		CHIP CAPACITOR,0.1-25
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C602	87-010-545-040		CAP,E 0.22-50 SME
C603	87-010-321-080		CHIP CAPACITOR,82P(J)
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-177-080		C-CAP,S 820P-50 SL
C609	87-016-251-040		CAP,E 220-16 SMG
C610	87-010-405-040		CAP,E 10-50
C611	87-010-405-040		CAP,E 10-50
C612	87-010-406-040		CAP,E 22-50 SME
C613	87-010-401-040		CAP,E 1-50 SME
C615	87-010-186-080		CAP,CHIP 4700P
C618	87-018-209-080		CAP, CER 0.1-50V
C701	87-010-401-040		CAP,E 1-50 SME
C702	87-010-401-040		CAP,E 1-50 SME
C703	87-010-182-080		C-CAP,S 2200P-50 B
C704	87-010-182-080		C-CAP,S 2200P-50 B
C705	87-010-545-040		CAP,E 0.22-50 SME
C706	87-010-545-040		CAP,E 0.22-50 SME
C707	87-010-993-080		C-CAP,S 0.056-25 B
C708	87-010-993-080		C-CAP,S 0.056-25 B
C709	87-012-393-080		C-CAP,S 0.22-16 R K
C710	87-012-393-080		C-CAP,S 0.22-16 R K
C711	87-010-401-040		CAP,E 1-50 SME
C712	87-010-260-040		CAP,E 47-25 SME
C713	87-010-405-040		CAP,E 10-50
C714	87-010-552-040		CAP,E 22-16 GAS
C715	87-016-669-080		C-CAP,S 0.1-25 K B

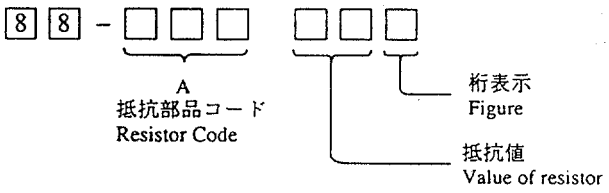
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
EMI201	87-008-372-080		FLTR,EMIBL01
FC001	88-904-201-210		FF-CABLE 4P 1.25
FL201	86-NT1-636-010		FL,BJ451GK
J601	87-A60-284-010		JACK,3.5MO (MSC)
J602	87-A60-284-010		JACK,3.5MO (MSC)
L202	87-005-151-080		COIL,2.2UH
L220	87-A50-052-010		COIL,CLOCK 5.76MHZ T1
L221	87-003-152-080		COIL, 100UH
LED301	87-A40-316-080		LED,SLR-56PCT31 GRN
LED302	87-A40-316-080		LED,SLR-56PCT31 GRN
LED303	87-A40-316-080		LED,SLR-56PCT31 GRN
LED304	87-A40-316-080		LED,SLR-56PCT31 GRN
LED305	87-A40-316-080		LED,SLR-56PCT31 GRN
LED306	87-A40-316-080		LED,SLR-56PCT31 GRN
LED307	87-A40-316-080		LED,SLR-56PCT31 GRN
LED308	87-A40-316-080		LED,SLR-56PCT31 GRN
LED309	87-A40-316-080		LED,SLR-56PCT31 GRN
LED310	87-A40-316-080		LED,SLR-56PCT31 GRN
LED311	87-A40-317-080		LED,SLR-342VCT31 RED
LED312	87-A40-317-080		LED,SLR-342VCT31 RED
LED313	87-A40-317-080		LED,SLR-342VCT31 RED
LED314	87-A40-317-080		LED,SLR-342VCT31 RED
LED315	87-A40-317-080		LED,SLR-342VCT31 RED
LED336	87-A40-363-080		LED,SLH-56PCTB7 GRN
LED337	87-A40-363-080		LED,SLH-56PCTB7 GRN
S130	87-A90-095-080		SW,TACT EVQ11G04M
S131	87-A90-095-080		SW,TACT EVQ11G04M
S132	87-A90-095-080		SW,TACT EVQ11G04M
S133	87-A90-095-080		SW,TACT EVQ11G04M
S134	87-A90-095-080		SW,TACT EVQ11G04M
S135	87-A90-095-080		SW,TACT EVQ11G04M
S145	87-A90-095-080		SW,TACT EVQ11G04M
S146	87-A90-095-080		SW,TACT EVQ11G04M
S147	87-A90-095-080		SW,TACT EVQ11G04M
S148	87-A90-095-080		SW,TACT EVQ11G04M
S149	87-A90-095-080		SW,TACT EVQ11G04M
S150	87-A90-095-080		SW,TACT EVQ11G04M
S151	87-A90-095-080		SW,TACT EVQ11G04M
S152	87-A90-095-080		SW,TACT EVQ11G04M
S153	87-A90-095-080		SW,TACT EVQ11G04M
S154	87-A90-095-080		SW,TACT EVQ11G04M
S155	87-A90-095-080		SW,TACT EVQ11G04M
VR601	87-A90-124-010		VR,RTRY 10KA L20
VR701	83-SP2-612-010		VR,10KB SQ11
MVR C.B			
C616	87-010-400-040		CAP,E 0.47-50 SME
C617	87-010-400-040		CAP,E 0.47-50 SME
C619	87-010-263-040		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F
C621	87-010-322-080		C-CAP,S 100P-50 J CH
C622	87-010-322-080		C-CAP,S 100P-50 J CH
C623	87-010-318-080		C-CAP,S 47P-50 J CH
C624	87-010-318-080		C-CAP,S 47P-50 J CH
C625	87-A10-229-080		C-CAP,S 0.68-10 RK
C626	87-010-197-080		C-CAP,S 0.01-25 K B
C627	87-010-179-080		C-CAP,S 1200P-50 K B
C628	87-010-196-080		C-CAP,S 0.1-25 Z F
C631	87-010-196-080		C-CAP,S 0.1-25 Z F
C632	87-010-187-080		C-CAP,S 5600P-50 K B
C633	87-010-181-080		C-CAP,S 1800P-50 K B
C634	87-012-393-080		C-CAP,S 0.22-16 R K
C635	87-010-194-080		C-CAP,S 0.047-25 Z F
C636	87-010-263-040		CAP,E 100-10 SME
C637	87-010-404-040		CAP,E 4.7-50 SME
C638	87-010-404-040		CAP,E 4.7-50 SME
C639	87-010-179-080		C-CAP,S 1200P-50 K B
C640	87-010-177-080		C-CAP,S 820P-50 J S L
C641	87-010-182-080		C-CAP,S 2200P-50 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C751	87-010-402-040		CAP,E 2.2-50 SME
C752	87-010-402-040		CAP,E 2.2-50 SME
C753	87-010-404-040		CAP,E 4.7-50 SME
C754	87-010-404-040		CAP,E 4.7-50 SME
C755	87-010-263-040		CAP,E 100-10 SME
C756	87-010-196-080		C-CAP,S 0.1-25 Z F
C757	87-010-384-040		CAP,E 100-25 SME
L601	87-005-481-080		COIL,47UH J FLR50
VR751	86-NT1-633-010		VR,50KBX2 V-L20
TRAY C.B			
S120	87-A90-095-080		SW,TACT EVQ11G04M
S121	87-A90-095-080		SW,TACT EVQ11G04M
S122	87-A90-095-080		SW,TACT EVQ11G04M
S123	87-A90-095-080		SW,TACT EVQ11G04M
S124	87-A90-095-080		SW,TACT EVQ11G04M
S125	87-A90-095-080		SW,TACT EVQ11G04M
S126	87-A90-095-080		SW,TACT EVQ11G04M
S127	87-A90-095-080		SW,TACT EVQ11G04M
S128	87-A90-095-080		SW,TACT EVQ11G04M
S129	87-036-110-010		PUSH SWITCH
S136	87-A90-095-080		SW,TACT EVQ11G04M
S137	87-A90-095-080		SW,TACT EVQ11G04M
S138	87-A90-095-080		SW,TACT EVQ11G04M
S139	87-A90-095-080		SW,TACT EVQ11G04M
S140	87-A90-095-080		SW,TACT EVQ11G04M
S141	87-A90-095-080		SW,TACT EVQ11G04M
S144	87-036-110-010		PUSH SWITCH

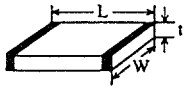
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
AC2 C.B			
⚠ PR101	87-A90-195-080		PROTECTOR,7A 125V 491
⚠ PR102	87-A90-195-080		PROTECTOR,7A 125V 491
⚠ PR105	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR106	87-026-682-080		PROTECTOR,10A 60V491
AC1 C.B			
⚠ F101	87-035-191-010		FUSE,3.15A 250V T218
⚠ FC001	87-033-213-080		CLAMP, FUSE
⚠ FC002	87-033-213-080		CLAMP, FUSE
⚠ PT103	86-NT1-608-010		PT,6NT1-E
⚠ T001	87-A60-317-010		TERMINAL, 1P MSC
⚠ T002	87-A60-317-010		TERMINAL, 1P MSC
MOTOR C.B			
C210	87-010-263-040		CAP,E 100-10
C211	87-010-263-040		CAP,E 100-10
M107	87-045-383-010		MOT,M9I50T28-2

○ 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

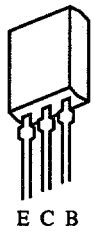
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

2SA1296GR
KTC3198GR

CSD1489B
2SA952
CSD655E

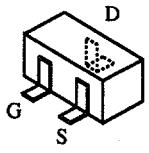
C2N5401



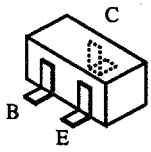
2SA935Q

2SB1370
FN1016
FP1016

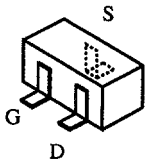
2SK2723



2SK2158



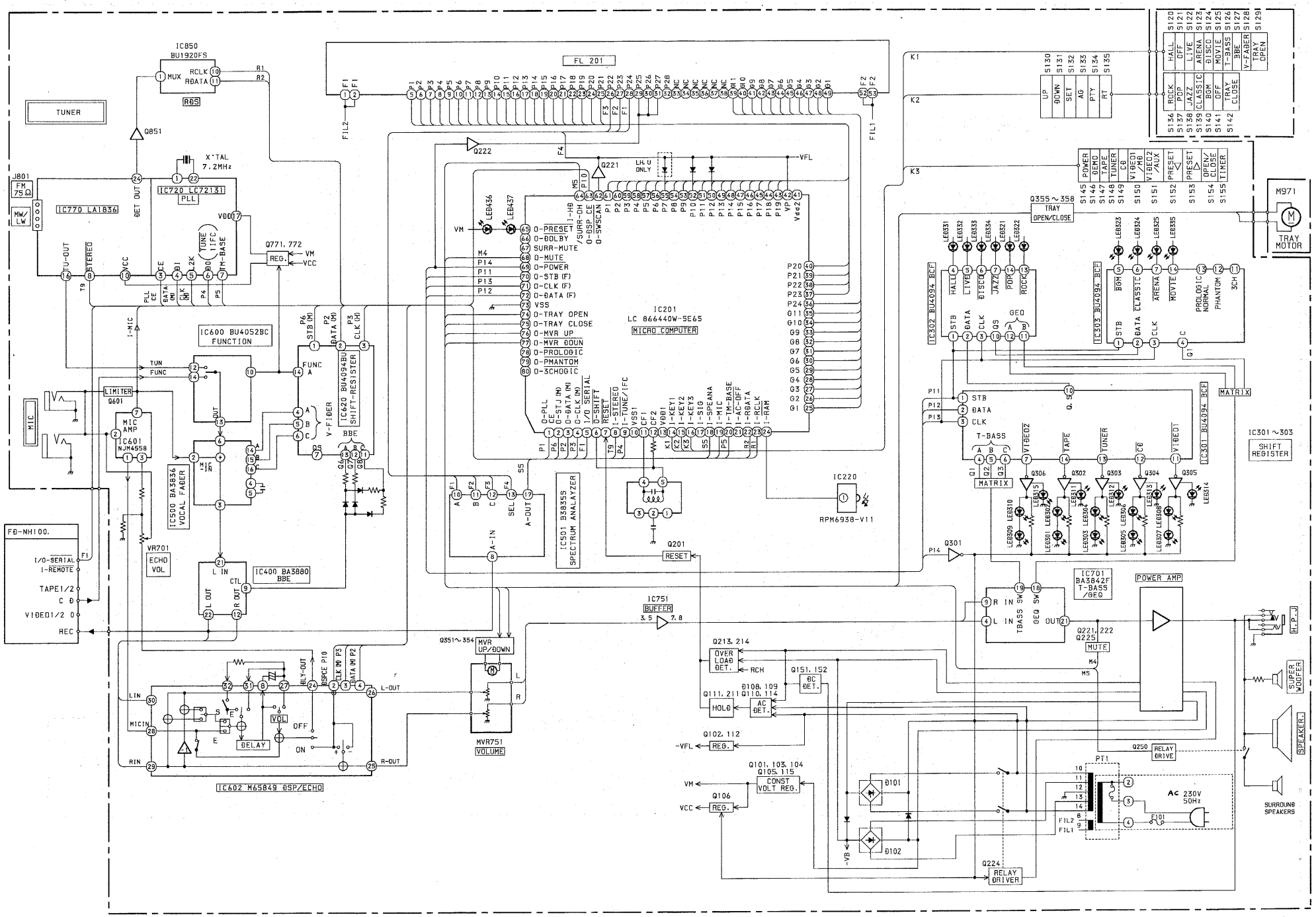
2SA1235F	DTA144EK
2SC2714	DTA114YK
2SC3052F	DTC114EK
CSD1306E	DTA143XK
2SC2412	DTA124EK
DTA143EK	DTA114EK
2SA1037	DTC114YK



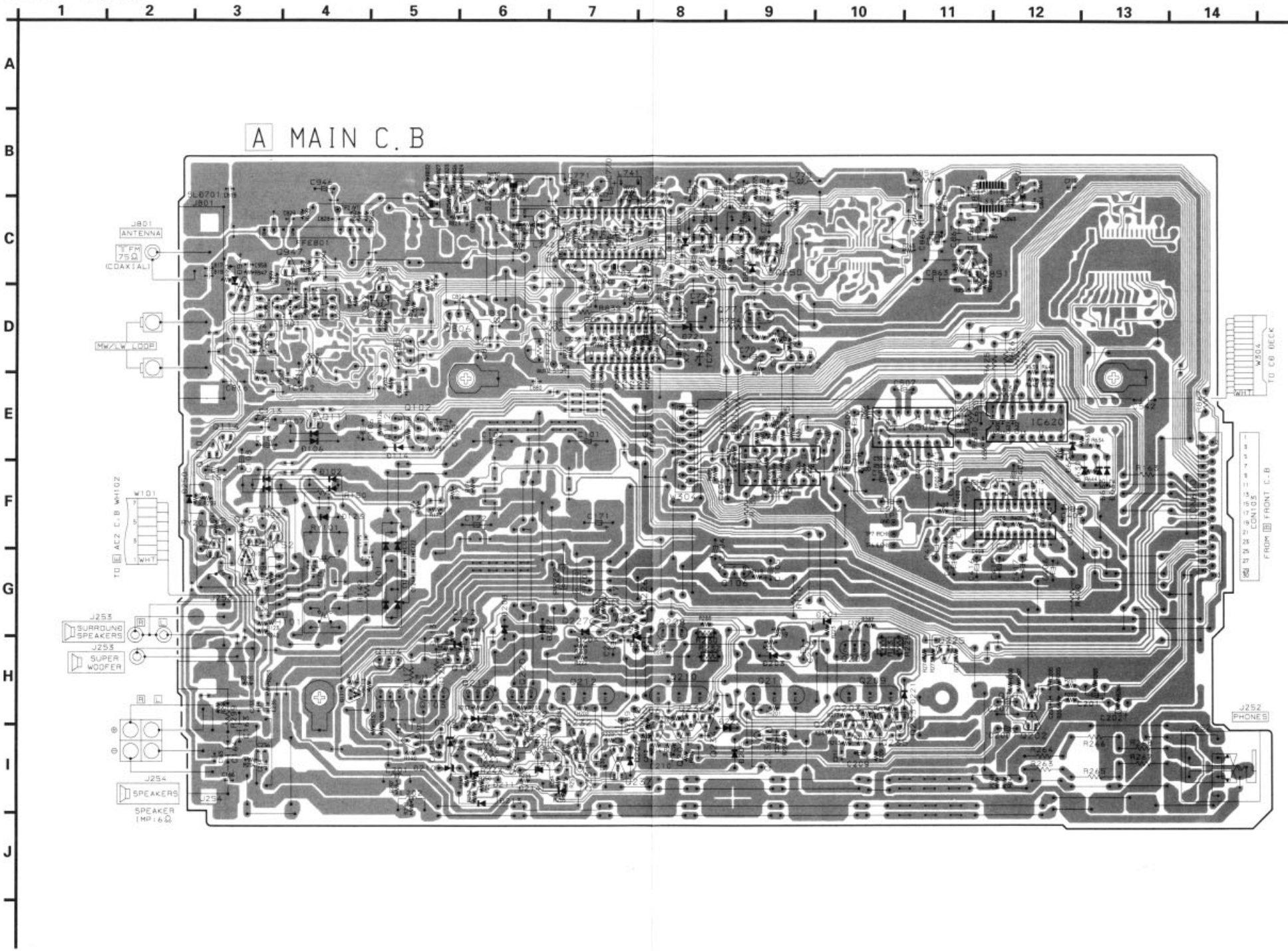
2SK543

DTA114YS
DTA114ES

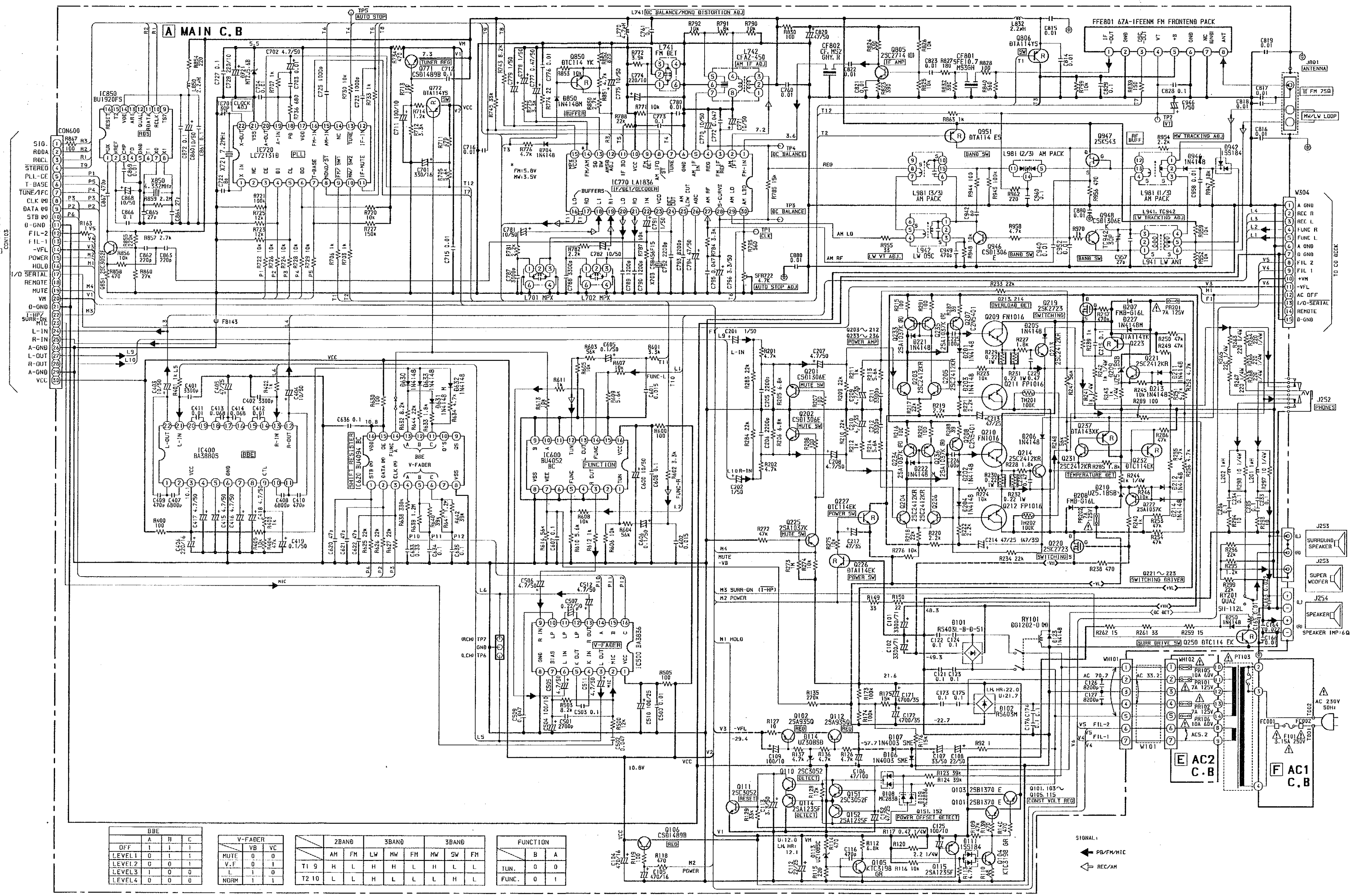
BLOCK DIAGRAM

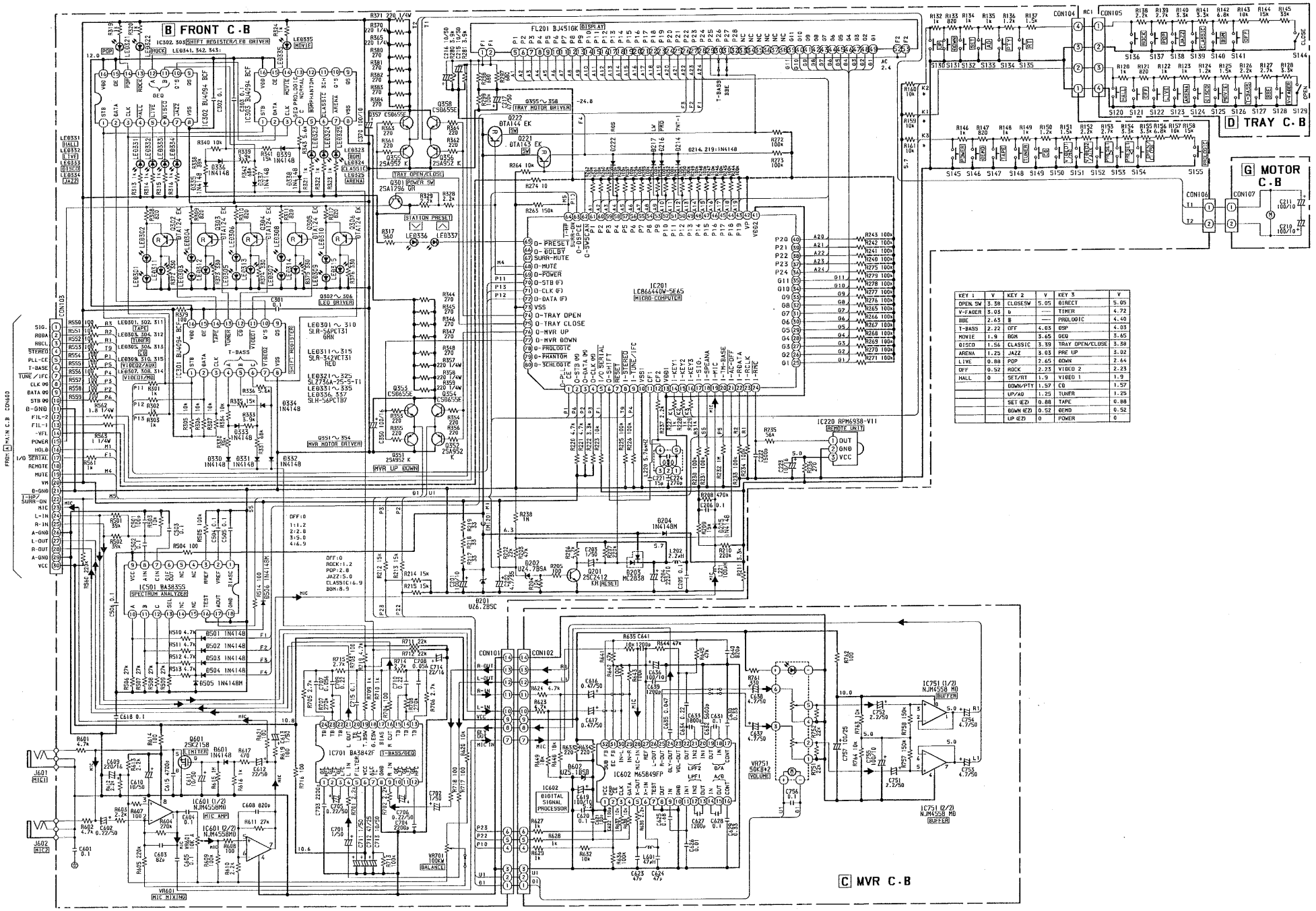


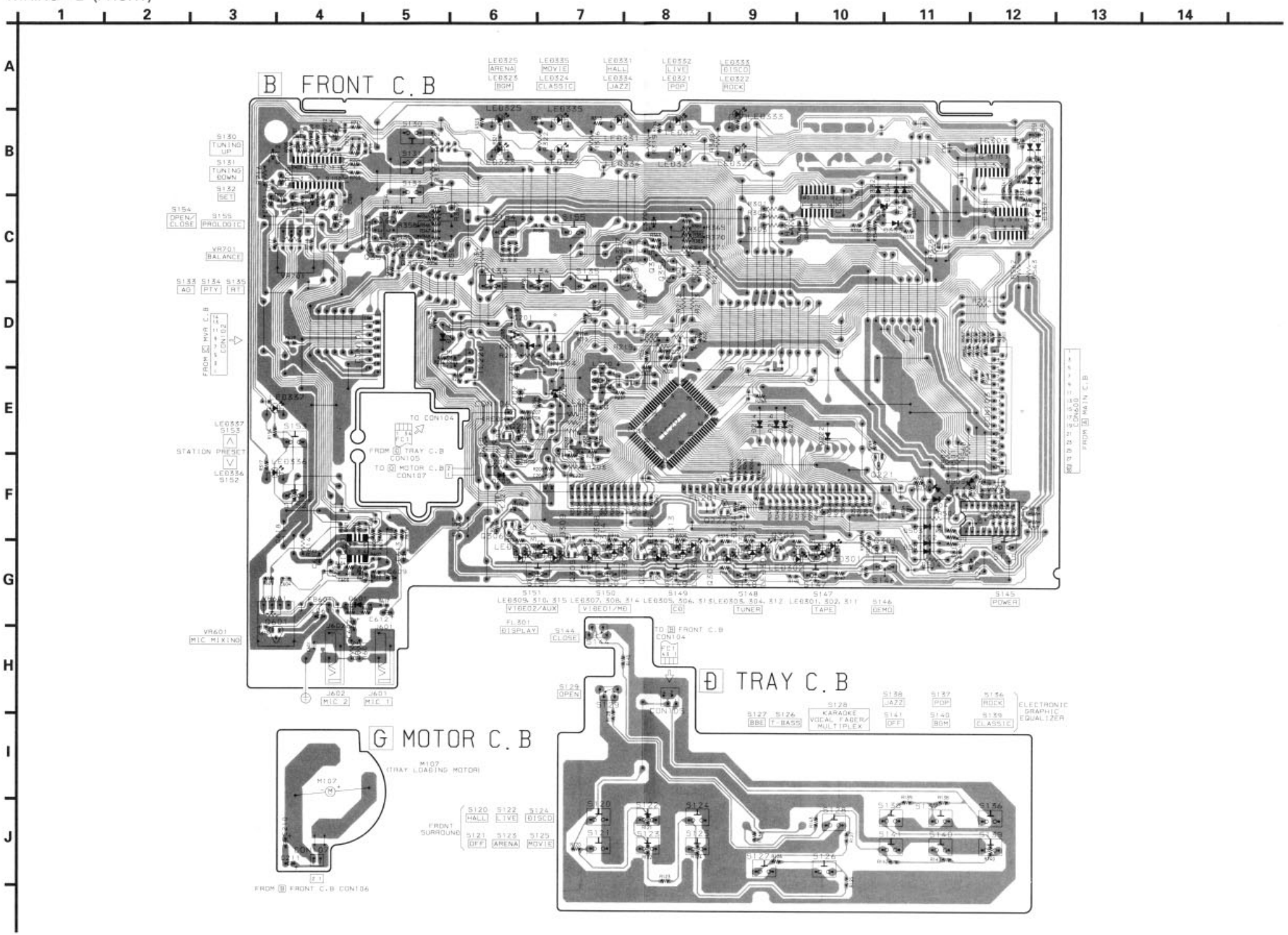
WIRING – 1 (MAIN)



SCHEMATIC DIAGRAM – 1 (MAIN)




B FRONT C.B
D TRAY C.B
G MOTOR C.B
C MVR C.B
IC201 LC866440W-5E65 MICRO COMPUTER
IC220 RPM6938-V11 REMOTE UNIT
IC501 BA5835S SPECTRUM ANALYZER
IC701 BA3842F T-BASS/DEQ
IC602 M65849FP DIGITAL SIGNAL PROCESSOR
IC751 (1/2) NJM4558 MD BUFFER
IC751 (2/2) NJM4558 MD BUFFER
IC601 (1/2) NJM4558MD MIC AMP
IC601 (2/2) NJM4558MD
FL201 BJ4516GK DISPLAY
VR751 50KB*2 VOLUME
VR701 100KM BALANCE
VR601 MIC MIXING
KEY 1
V
KEY 2
V
KEY 3
V
OPEN SW 3.38
CLOSESW 5.05
DIRECT 5.05
V-FADER 5.05
b
TIMER 4.72
BBE 2.63
B
PROLOGIC 4.40
T-BASS 2.22
OFF 4.05
DSP 4.03
MOVIE 1.9
BGM 3.45
DEQ 3.65
DISCO 1.56
CLASSIC 3.39
TRAY OPEN/CLOSE 3.38
ARENA 1.25
JAZZ 3.03
PRE UP 3.02
LIVE 0.88
POP 2.65
DOWN 2.64
OFF 0.52
ROCK 2.23
VIDEO 2 2.23
HALL 0
SET/RT 1.9
VIDEO 1 1.9
DOWN/PTY 1.57
CD 1.57
UP/AD 1.25
TUNER 1.25
SET (EZ) 0.88
TAPE 0.88
DOWN (EZ) 0.52
DEMO 0.52
UP (EZ) 0
POWER 0


B FRONT C.B
Đ TRAY C.B
G MOTOR C.B
M107
(TRAY LOADING MOTOR)
TO CON104
FROM Đ TRAY C.B CON105
TO G MOTOR C.B CON107
FROM H FRONT C.B CON104
FROM B FRONT C.B CON106
FROM M MAIN C.B CON101
TO M MVR C.B CON102
FROM M MVR C.B CON102
S130 TUNING UP
S131 TUNING DOWN
S132 SET
S133 AG
S134 PTY
S135 RT
S154 OPEN/CLOSE
S155 PROLOGIC
VR701 BALANCE
VR601 MIC MIXING
J602 MIC 2
J601 MIC 1
STATION PRESET
S153
S152
S151 V16E02/AUX
S150 V16E01/MD
S149 CD
S148 TUNER
S147 TAPE
S146 DEMO
S145 POWER
FL801 DISPLAY
S144 CLOSE
S129 OPEN
S128 KARAOKE VOCAL FADER/ MULTIPLEX
S127 BBE
S126 T-BASS
S141 OFF
S140 BGM
S138 JAZZ
S137 POP
S136 ROCK
S139 CLASSIC
ELECTRONIC GRAPHIC EQUALIZER
FRONT SURROUND
S120 HALL
S122 LIVE
S124 DISCO
S121 OFF
S123 ARENA
S125 MOVIE
LED325 ARENA
LED335 MOVIE
LED331 HALL
LED332 LIVE
LED333 DISCO
LED326 BGM
LED324 CLASSIC
LED334 JAZZ
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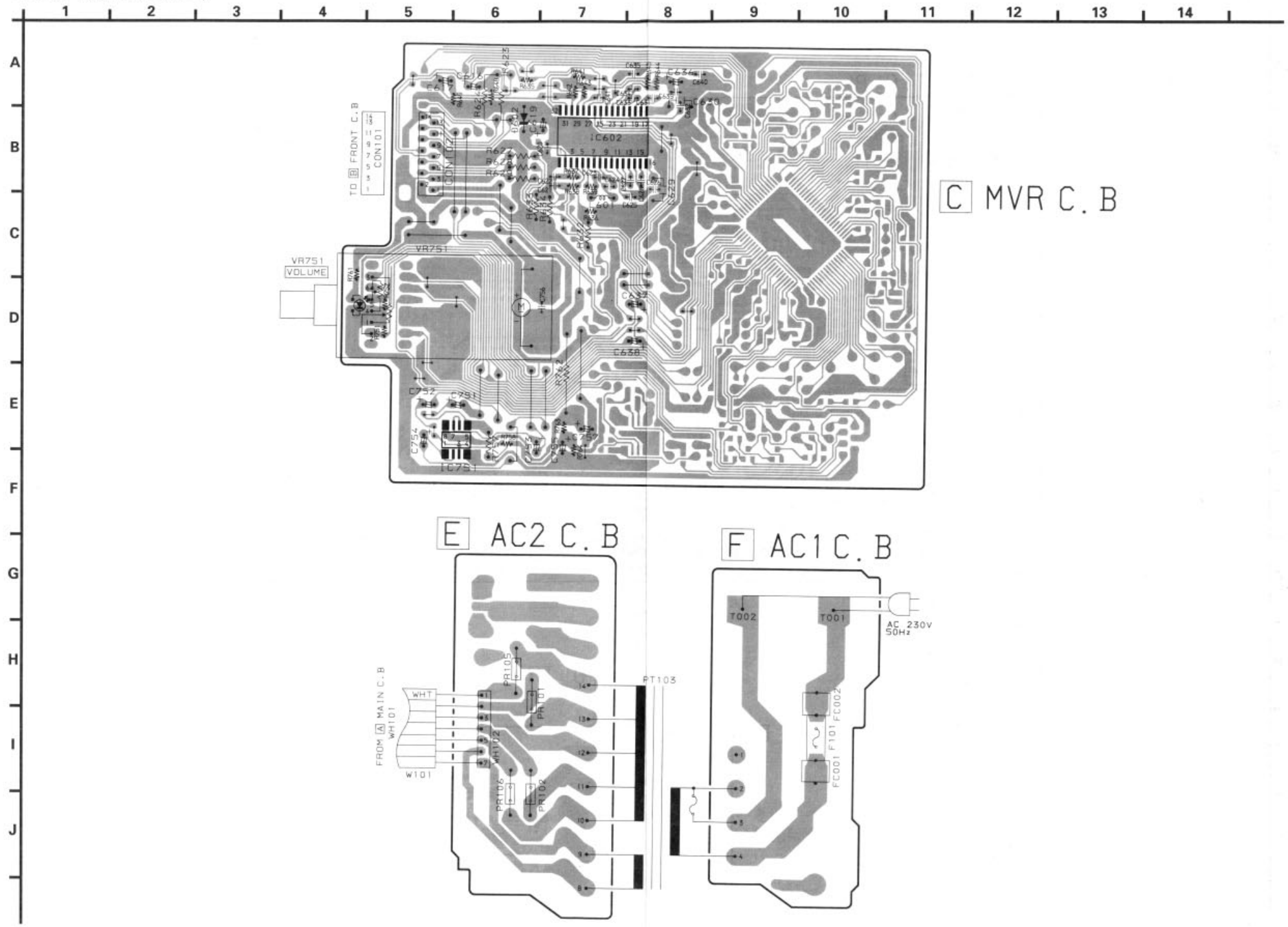
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J
C MVR C. B
TO B FRONT C. B
CON101
IC602
VR751
VOLUME
C638
C752
C754
IC751
E AC2 C. B
FROM A MAIN C. B
WH101
WHT
W101
PR105
PR101
PR106
PR102
PT103
F AC1 C. B
T002
T001
AC 230V
50Hz
FC001
F101
FC002

IC DESCRIPTION

IC, LC866440W-5E65

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 srobe 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 $\overline{\text{SERIAL}}$	I/O	FD microprocessor, I/O serial.
6	O-SHIFT	O	Microprocessor clock shift ouput during tuner reception.
7	$\overline{\text{RESET}}$	I	Reset input (Reset at "L").
8	I-$\overline{\text{STEREO}}$	I	Tuner stereo sensing input
9	I-$\overline{\text{TUNE}}$/IFC	I	Tuner, $\overline{\text{SD}}$ sensing input/IF count serial data input.
10	VSS1	–	GND.
11	CF1	–	5.76MHz oscillator.
12	CF2	–	5.76MHz oscillator.
13	VDD1	–	Power supply input.
14~16	I-KEY 1~3	I	Key 1 ~ 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-$\overline{\text{AC OFF}}$	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-$\overline{\text{RMC}}$	I	System remote control signal input (active low).
25~35	G1~G11	O	FL grid output G1~G11.
36~40	P24~P20	O	FL segment output P24~P40.
41	VDD2	–	Power supply input.
42	VP	–	Power supply for display.
43~48	P19~P14	O	FL segment output P19~14.
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 $\overline{\text{PRO}}$.
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 $\overline{\text{BBE}}$.
60	P2	I/O	FL segment output /Diode input supporting $\overline{\text{DSP}}$.
61	P1	I/O	FL segment output /Diode input supporting $\overline{\text{K-CON}}$.
62	O-$\overline{\text{SWSCAN}}$	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.

Pin No.	Pin Name	I/O	Description
64	SUR ON	O	SUR ON(output at "H").
65	$\overline{\text{O-PRESET LED}}$	O	Preset.
66	$\overline{\text{O-DOLBY}}$	O	Not used.
67	SURR-MUTE	O	Not used.
68	O-MUTE	O	System Mute ON/OFF output.
69	$\overline{\text{O-POWER}}$	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, LC72131

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866440W-5E65) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866440W-5E65).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / AM</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<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>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<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>
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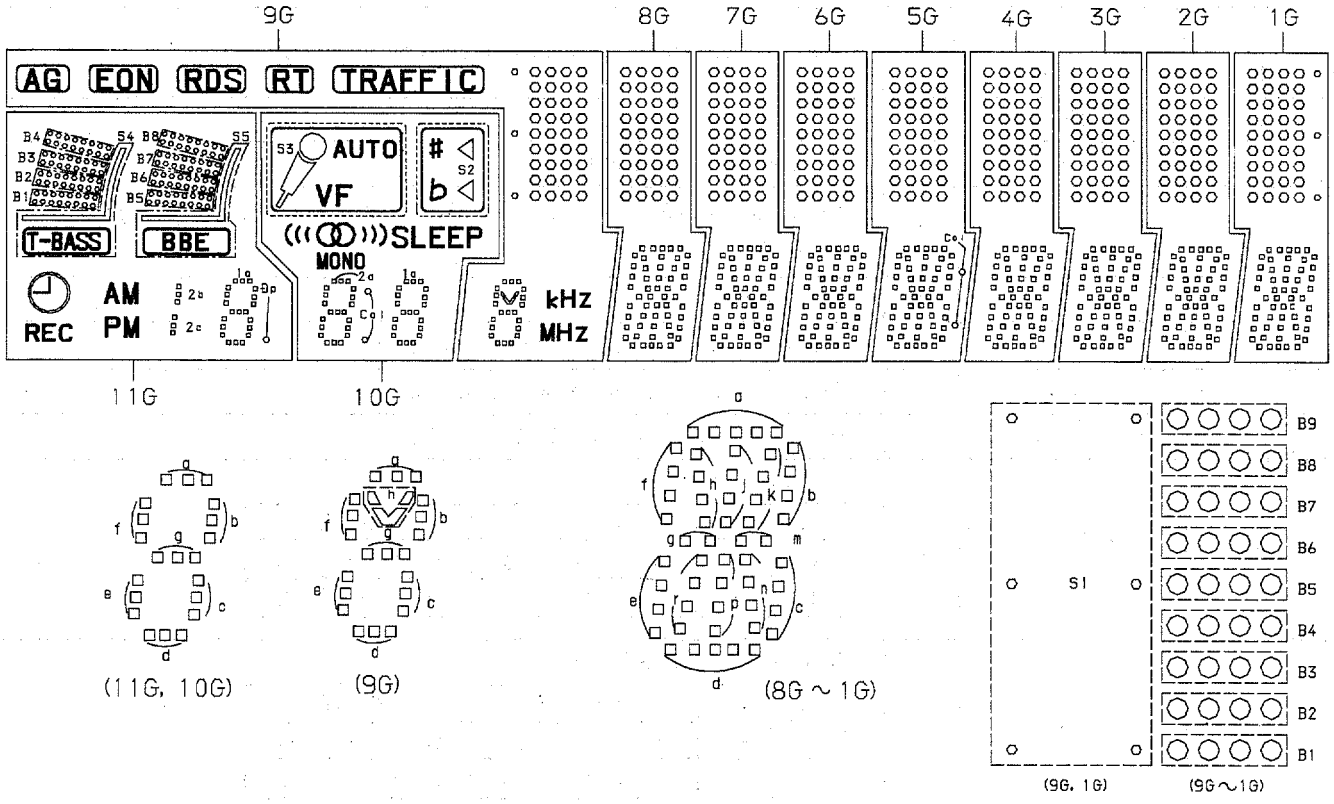
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>A MIN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>F MIN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

FL (BJ451GK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

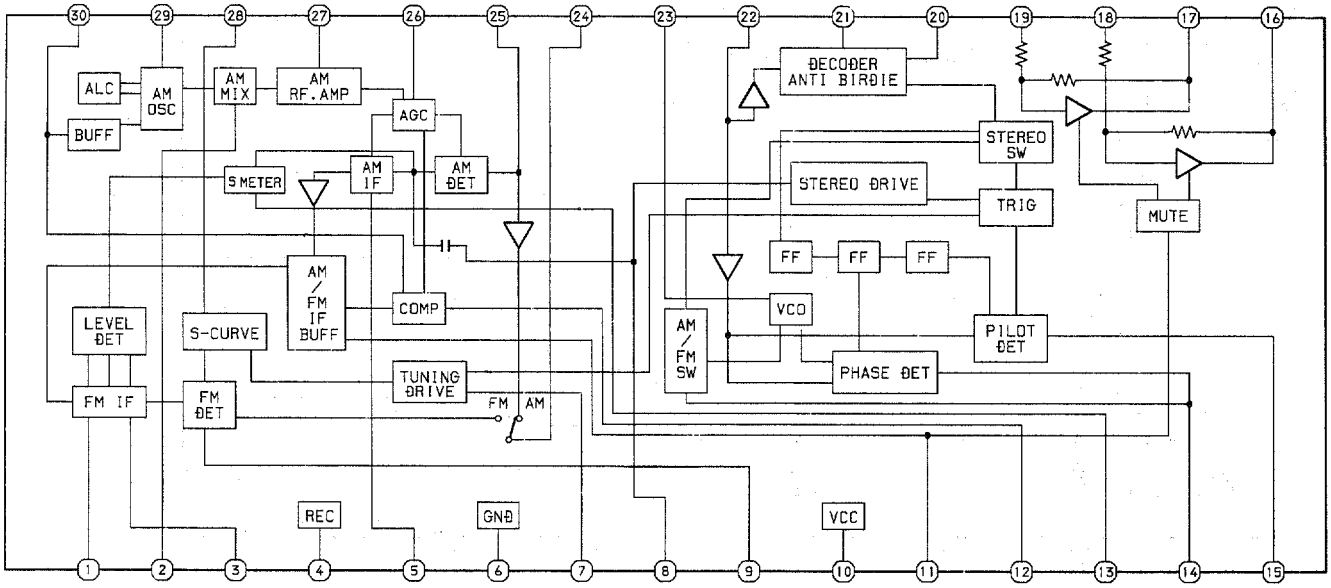


ANODE CONNECTION

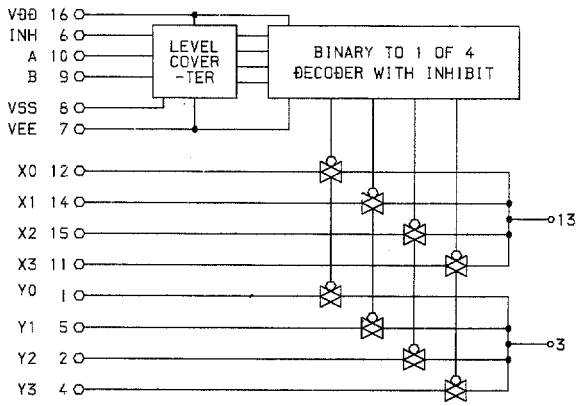
	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2b, 2c	S3	B9	B9	B9	B9	B9	B9	B9	B9	B9
P2	1a	**AUTO**	B8	B8	B8	B8	B8	B8	B8	B8	B8
P3	1b	◁(High)	B7	B7	B7	B7	B7	B7	B7	B7	B7
P4	1f	◁ (Low)	B6	B6	B6	B6	B6	B6	B6	B6	B6
P5	1g	((( )))	B5	B5	B5	B5	B5	B5	B5	B5	B5
P6	1c	**SLEEP**	B4	B4	B4	B4	B4	B4	B4	B4	B4
P7	1e	**MONO**	B3	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	R T	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	A G	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	θp	Col (High)	**MHz**	–	–	–	col	–	–	–	–
P25	–	–	S1	–	–	–	–	–	–	–	S1
P26	S4	–	–	–	–	–	–	–	–	–	–
P27	S5	–	–	–	–	–	–	–	–	–	–
P28	–	S2	–	–	–	–	–	–	–	–	–

IC BLOCK DIAGRAM

IC, LA1836



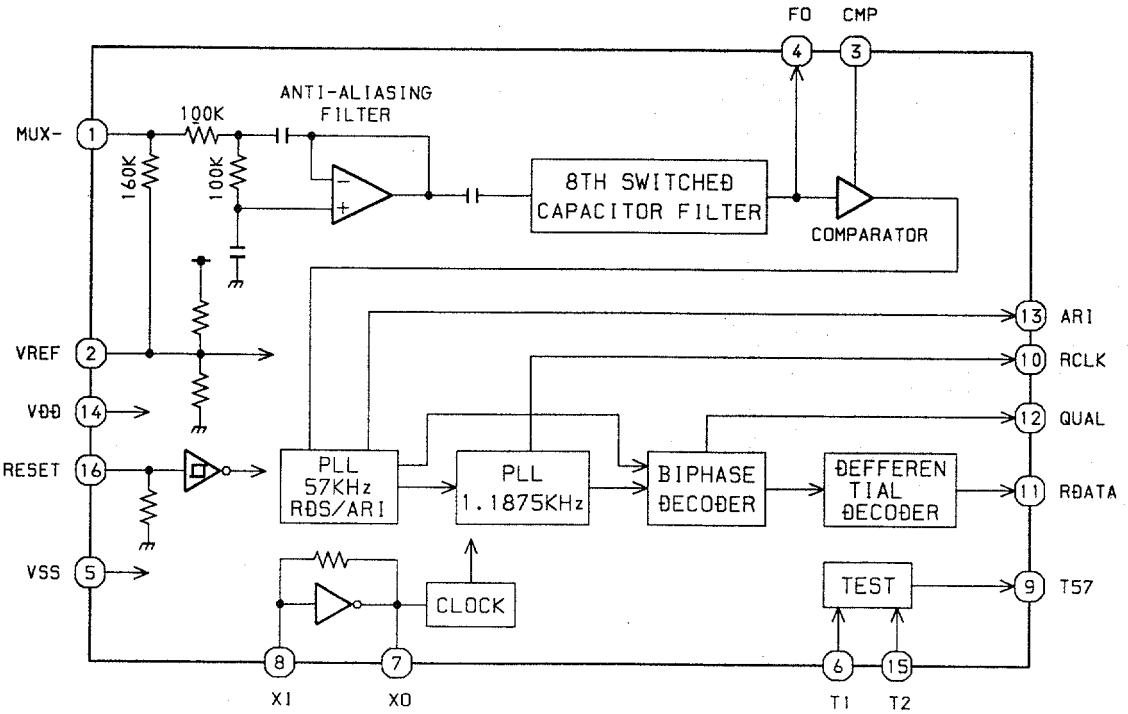
IC, BU4052BCP



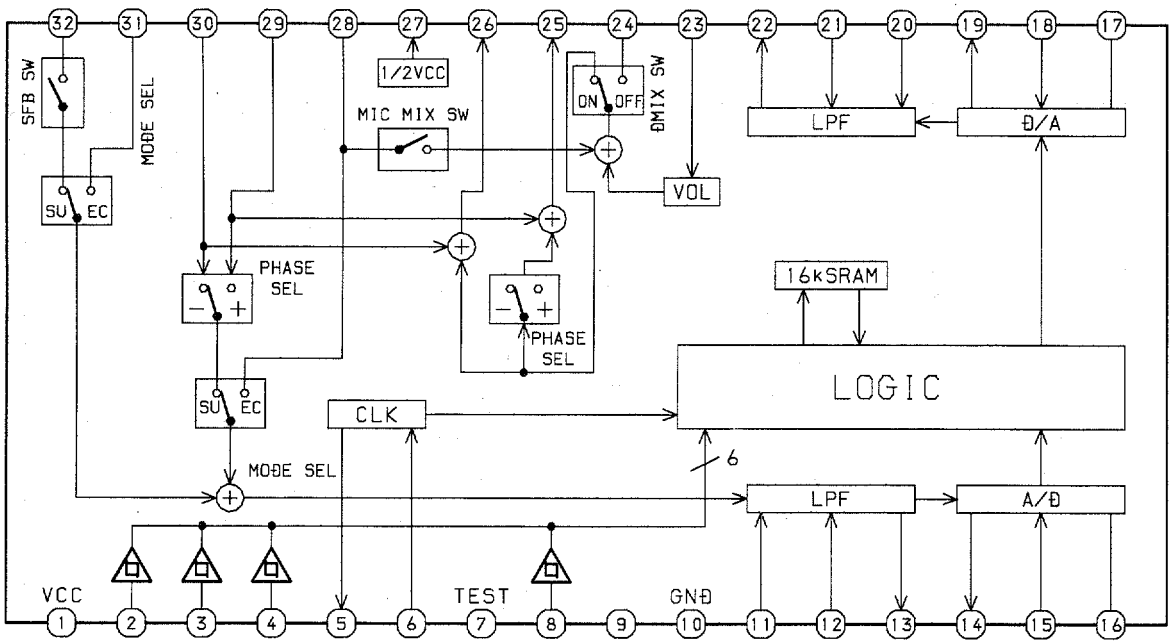
TRUTH TABLE

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

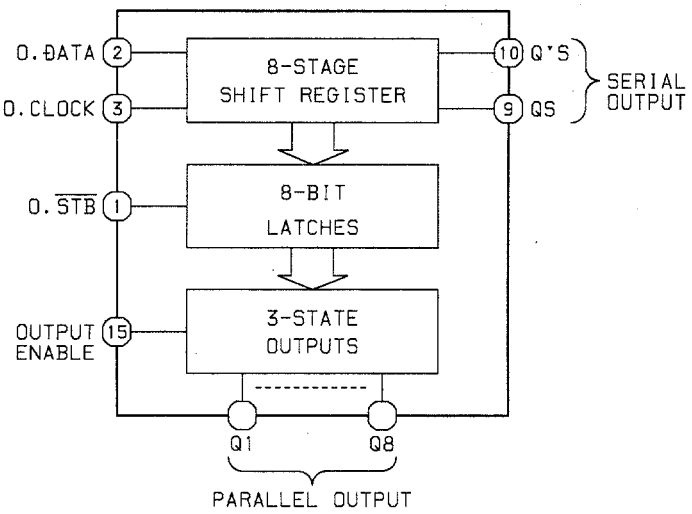
IC, BU1920FS



IC, M65849FP



IC, BU4094BCP / BCF



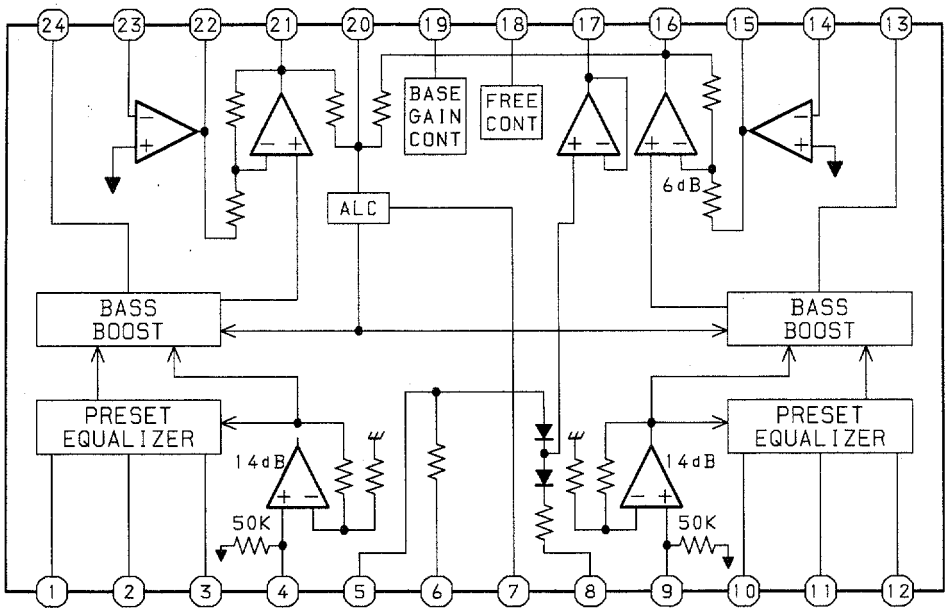
Q1:O.DOLBY ON Q5:O.PLAY
Q2:O.DOLBY C Q6:O.PB2
Q3:O.EXT.REC Q7:O.LED
Q4:O.INT.REC Q8:O.$\overline{RMT}$

TRUTH TABLE

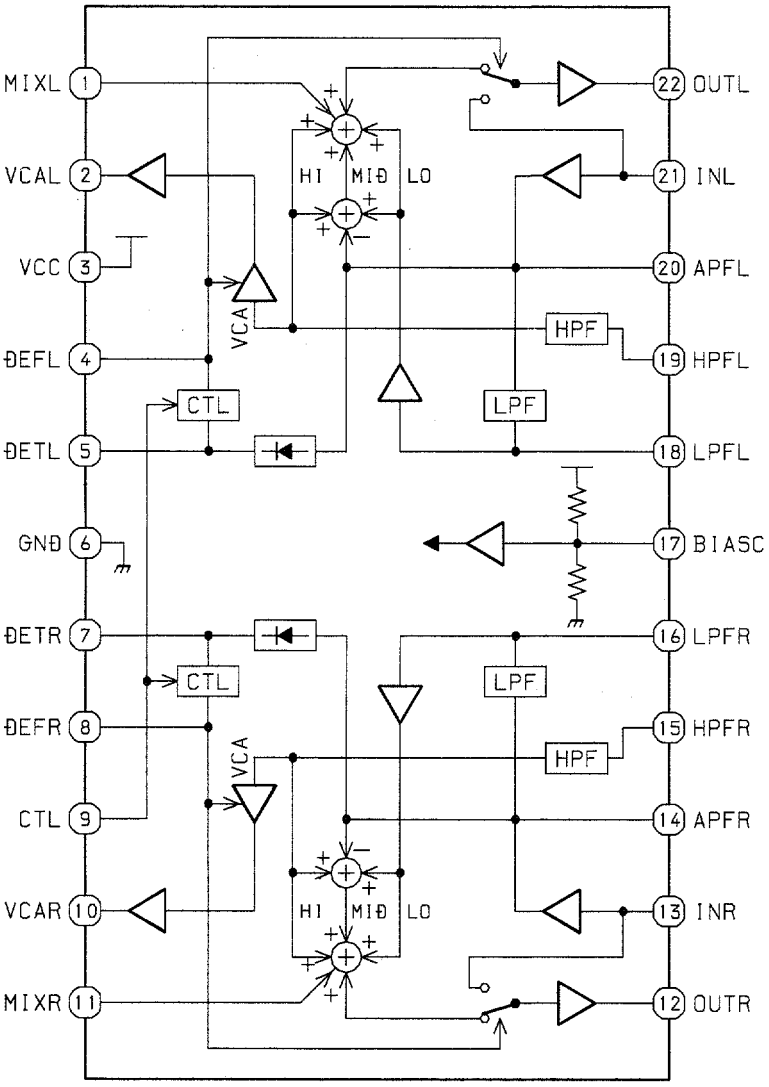
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	X	X	Z	Z	Q7	NO CHG.
↑	L	X	X	Z	Z	NO CHG.	QS
↓	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↓	H	H	H	H	Qn-1	Q7	NO CHG.
↑	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE
X = DON'T CARE

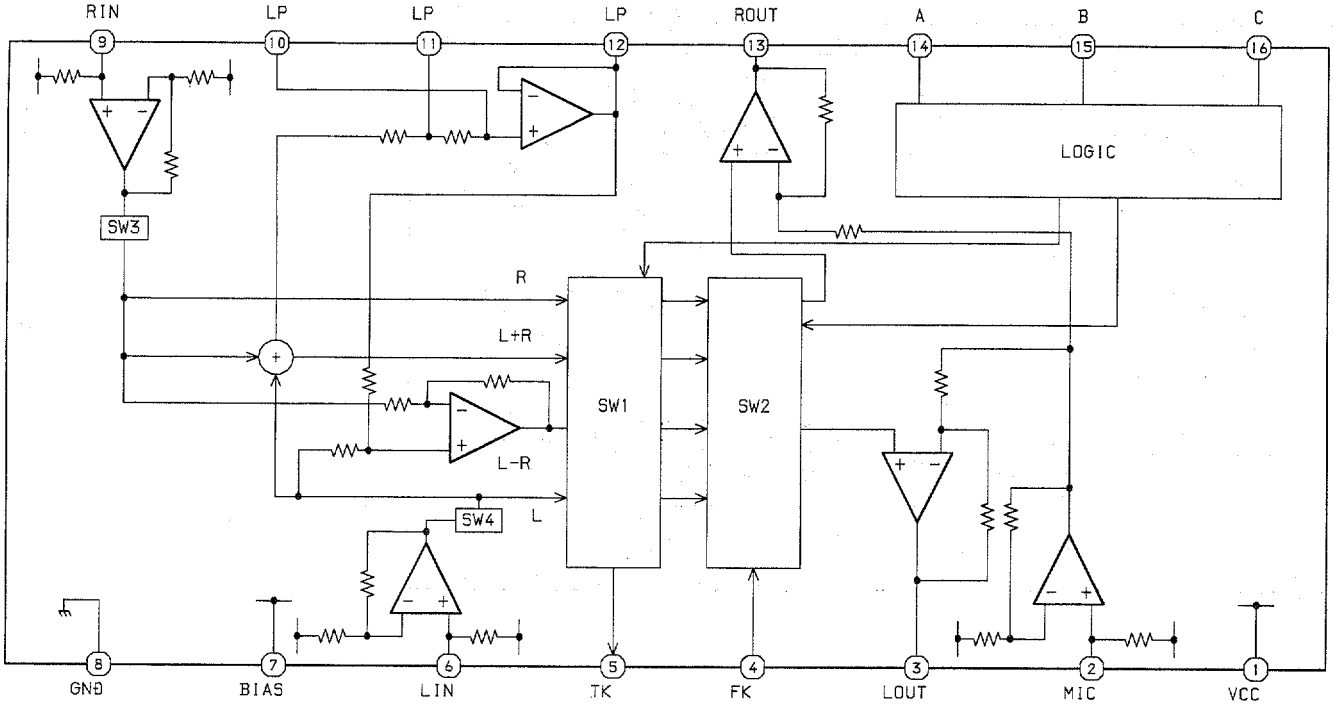
IC, BA3842F



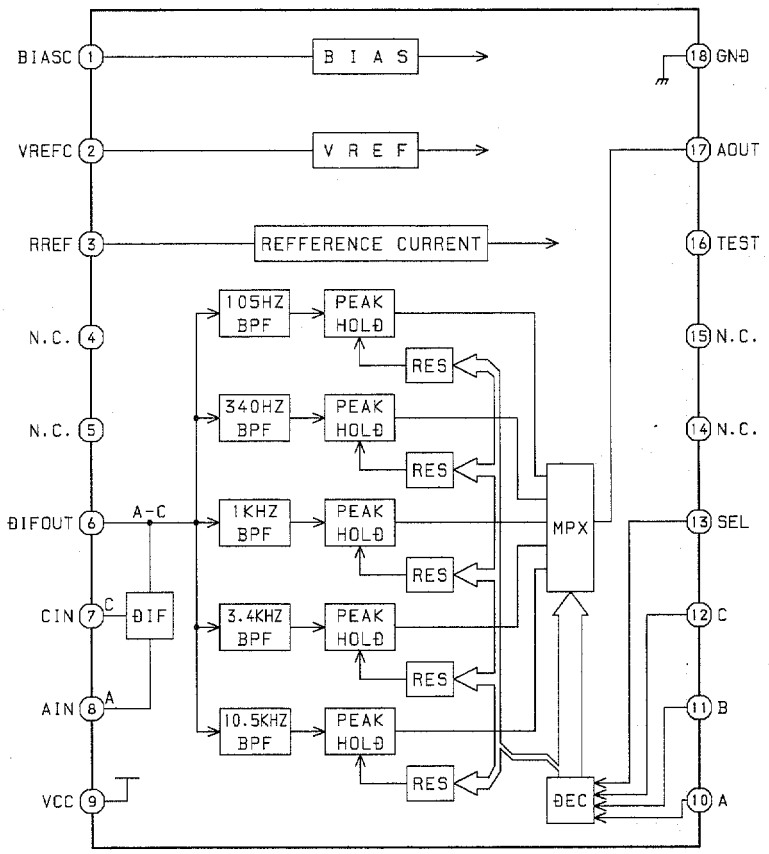
IC, BA3880S



IC, BA3836

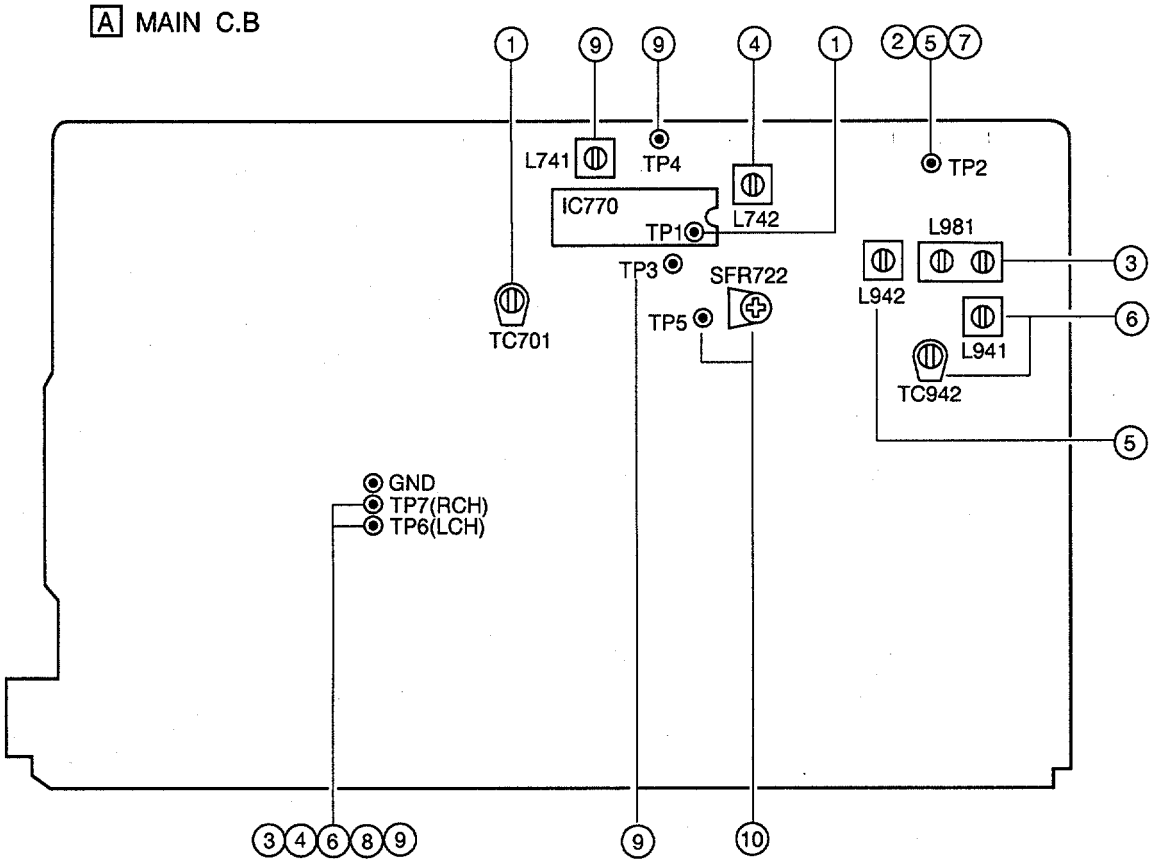


IC, BA3835S



ADJUSTMENT <TUNER>

A MAIN C.B



< TUNER SECTION >

1. Clock Adjustment
   Settings : • Test point : TP1 (CLK)
   • Adjustment location :TC701
   Method : Set to MW(AM) 1602kHz and adjust TC701 so that the test point becomes 2052kHz ± 0.01kHz.

2. MW(AM) VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW(AM) 1602kHz and check that the test point is 6.0V ± 1.0V.

3. MW(AM) Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location : L981
   Method : Set to MW(AM) 999kHz and adjust L981 so that the test point becomes maximum.

4. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   L742.....450kHz

5. LW VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V ± 0.05V.

6. LW Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Input level : Adjustable
   • Adjustment location :
   L941.....144kHz
   TC942.....290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to MAX by L941. Then the level at 290kHz is adjust to MAX by TC942.

7. FM VT Check
   Settings : • Test point : TP2 (VT)
   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
   Settings : • Test point : TP6(Lch), TP7(Rch)
   Method : Check that the test point is 3~12dB and distortion is less than 3% at FM 98.0MHz.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   : TP6, TP7 (Mono Distortion)
   • Adjustment location : L741
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

10. Auto Stop Level Adjustment

Settings : • Test point : TP5 (Auto Stop)
• Adjustment location : SFR722
• Input level : 54dB

Method : Set to FM 98.0MHz and adjust voltage low (about 0.1V) by SFR722. After that voltage high (about 7.0V) by 2.0dB down.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	
(THD 3%)	6dB ± 6dB [at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 36dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	More than 66dB [STEREO] More than 72dB [MONO] [at 98.0MHz]
Distortion :	Less than 1.2% [at 98.0MHz]
Auto stop level :	25dB +10/–5dB [at 98.0MHz]
Stereo separation :	More than 20dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

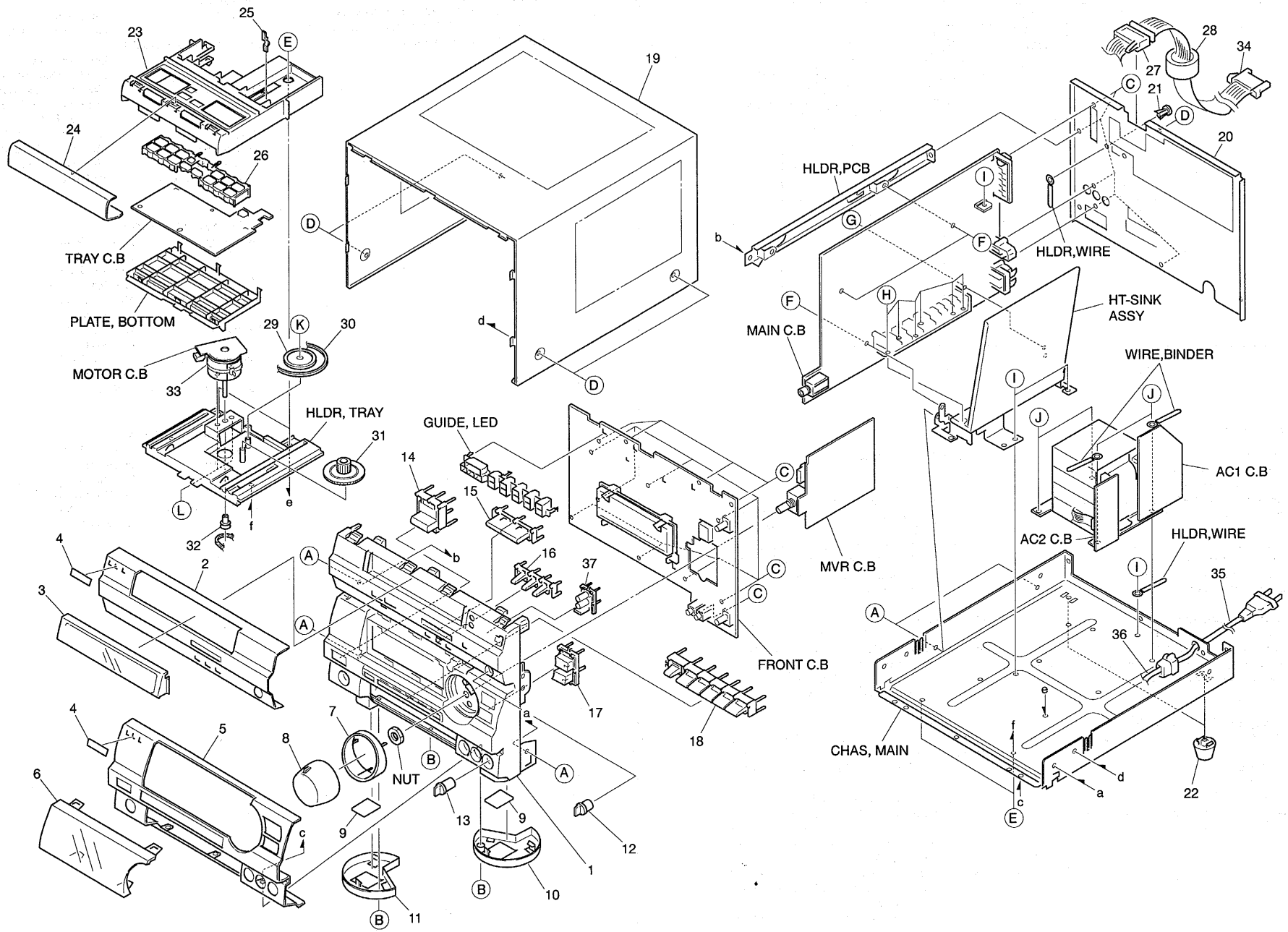
<MW (AM) SECTION>

Sensitivity : (S/N 20dB)	Less than 60dB [at 603kHz] Less than 58dB [at 999kHz/1404kHz]
Signal to noise ratio :	More than 36dB [at 999kHz]
Distortion :	Less than 1.5% [at 999kHz]
Auto stop level :	Less than 60dB [at 999kHz]
Intermediate frequency :	450kHz

<LW (AM) SECTION>

Sensitivity : (S/N 20dB)	Less than 70dB [at 144kHz] Less than 66dB [at 198kHz/290kHz]
Signal to noise ratio :	More than 34dB [at 198kHz]

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
1	87-NT1-001-010		CABI,FR
2	87-NT1-004-010		PANEL,FR GEQ E
3	87-B00-002-010		BADGE,AIWA 30 ABS SIL
4	87-NT1-019-010		WINDOW,GEQ
5	87-NT1-002-010		PANEL,FR AMP
6	87-NT1-036-010		WINDOW,DISPLAY RDS
7	87-NT1-034-010		RING,VOL
8	87-NT1-021-010		KNOB,RTRY VOL
9	80-VT1-202-010		FELT,12.5-15.5-2
10	87-NT1-035-010		RING,FOOT R
11	87-NT1-015-010		RING,FOOT L
12	87-NT1-024-010		KNOB,RTRY ECHO
13	87-NT1-023-010		KNOB,RTRY MIC
14	87-NT1-007-010		KEY,POWER
15	87-NT1-011-010		KEY,TIMER
16	87-NT1-010-010		KEY,SET
17	87-NT1-037-010		KEY,ASSY UP/ DOWN
18	87-NT1-013-010		KEY,FUN
19	87-NT1-043-010		CABI,STEEL
20	87-NT1-032-010		PANEL,REAR EZSNM
21	87-084-077-010		NYLON RIVET, 3.5-4.5
22	87-085-213-010		FOOT,H12.5
23	87-NT1-005-010		TRAY,CONTROL
24	87-NT1-006-010		PANEL,TRAY
25	81-MT3-211-010		LEVER,OPEN
26	87-NT1-014-010		KEY,GEQ
27	89-VT5-202-010		BUSHING, CORD
28	87-003-317-010		F-BEAD,F0H2515-LG7
29	82-NT1-205-110		PULLEY,LOADING(*)
30	80-VW1-217-010		BELT,SQ 1.5
31	82-NT1-204-010		GEAR,LOADING
32	80-VW1-204-010		PULLEY,MOTOR
33	87-045-383-010		MOT,M9I50T28-2
34	87-NT1-650-010		CORD,FG15P
35	87-085-185-010		BUSHING, AC CORD (E)
⚠ 36	87-050-079-010		AC-CORD ASSY,E
37	87-NT1-009-010		KEY,TUNING
A	87-591-094-410		TAPPING SCREW, QIT+3-6
B	87-067-777-010		BVTT+3-6 W,CONVEX BL
C	87-067-703-010		TAPPING SCREW, BVT2+3-10
D	87-067-641-010		UTT2+3-8(W/O SLOT)BL
E	87-067-584-010		TAPPING SCREW, BVT2+3-6
F	87-078-084-010		BVTT+3-6 W,CONVEX
G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
H	87-067-758-010		BVT2+3-12 W/O SLOT
I	87-067-688-010		BVTT+3-6
J	87-078-019-010		S-SCREW,IT+4-6
K	87-861-095-410		VFT2+3-8 SLOT
L	87-261-073-410		V+2.6-6

MODEL NO.

FD-NH100

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

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

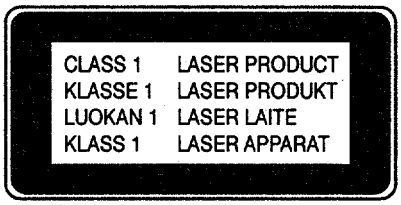
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

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

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



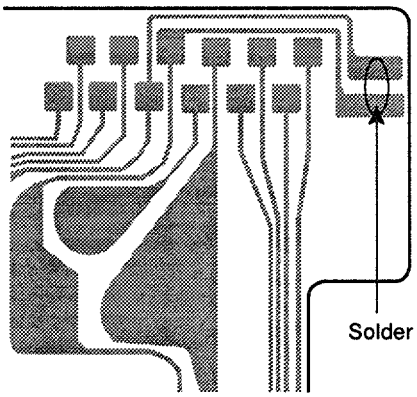
Precaution to replace Optical block

(KSS – 213B)

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

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

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-017-022-080		IC,NJM2068M-D(T1)
	87-017-917-080		IC,BU4066BCF
	87-001-607-080		IC,NJM4558M
	87-002-272-080		IC,TC4052BF
	87-001-985-010		IC,HA12142NT
	87-020-784-080		IC,TC4053BF
	87-017-888-080		IC,NJM4558MD
	87-017-745-010		IC,CXA1782BQ
	87-070-305-010		IC,BA6897S
	87-001-982-010		IC,TA7291S
	87-070-294-010		IC,CXD2508AQ
	86-NV1-610-110		IC,LC866424V-5B05
	87-017-375-080		IC,TC4094BF
	87-020-454-010		IC,DN6851
TRANSISTOR			
	89-503-685-080		C-FET 2SK 368GR
	89-113-625-080		TR,2SA1362GR(120MHZ,0.
	87-026-635-080		C-TR,UN2213
	89-324-122-080		TR,2SC2412K
	89-320-011-080		TR,2SC2001 (15W)
	89-109-521-080		TR,2SA952 (0.6W)
	87-026-210-080		CHIP-TR,DTC144EK
	89-110-373-080		CHIP-TR,2SA1037 S
	89-318-155-080		TR,2SC1815 (0.4W)
	89-332-665-080		TR,2SC3266GR
	87-A30-047-080		TR,CSD655E
	89-333-266-080		CHIP TR,2SC3326B
	87-026-233-080		TR,DTA114TK-TP
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-211-080		TR,DTA144EK
	87-026-239-080		TR,DTC114TK (0.2W)
	87-026-609-080		TR,KTA1266GR
	89-421-722-380		TR,2SD2172V/W
	87-026-223-080		TR,DTC143TK
	87-026-608-080		C-TR,DTC 123 JK
	87-A30-039-040		C-TR,2SD1383K
	89-112-965-080		TR,2SA1296 (0.75W)
	87-026-228-080		TR,DTA124EK
	87-A30-067-080		C-TR,2SA 1298Y
DIODE			
	87-017-437-080		DIODE,1N4148M
	87-017-121-080		ZENER,HZS11A1
	87-020-123-080		DIODE,DS446 (200MA)
	87-A40-199-080		ZENER,UZL6H2
	87-020-331-080		CHIP-DIODE,DAN202K
	87-A40-202-080		ZENER,UZ5.1BSB
	87-020-339-080		CHIP DIODE,1SS226
	87-017-097-080		ZENER,HZS6B1
	87-020-330-080		C-DIODE,DAP202K
MAIN C.B			
C101	87-012-158-080		C-CAP,S 390P-50 CH
C102	87-012-158-080		C-CAP,S 390P-50 CH
C103	87-010-318-080		C-CAP,S 47P-50 CH
C104	87-010-318-080		C-CAP,S 47P-50 CH
C105	87-010-369-080		C-CAP,S 0.033-25 K B
C106	87-010-369-080		C-CAP,S 0.033-25 K B
C109	87-012-154-080		C-CAP,S 150P-50 CH
C110	87-012-154-080		C-CAP,S 150P-50 CH
C111	87-010-197-080		CAP, CHIP 0.01 DM
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-010-196-080		CHIP CAPACITOR,0.1-25
C151	87-012-156-080		C-CAP,S 220P-50 CH
C152	87-012-156-080		C-CAP,S 220P-50 CH
C153	87-010-322-080		C-CAP,S 100P-50 CH
C154	87-010-322-080		C-CAP,S 100P-50 CH
C155	87-010-197-080		CAP, CHIP 0.01 DM
C156	87-010-197-080		CAP, CHIP 0.01 DM
C157	87-012-156-080		C-CAP,S 220P-50 CH
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-010-318-080		C-CAP,S 47P-50 CH
C160	87-010-318-080		C-CAP,S 47P-50 CH
C181	87-010-805-080		CAP, S 1-16
C182	87-010-805-080		CAP, S 1-16
C183	87-010-197-080		CAP, CHIP 0.01 DM
C184	87-010-318-080		C-CAP,S 47P-50 CH
C185	87-010-197-080		CAP, CHIP 0.01 DM
C186	87-010-402-080		CAP, ELECT 2.2-50V
C187	87-010-184-080		CHIP CAPACITOR 3300P(K)
C205	87-010-369-080		C-CAP,S 0.033-25 K B
C206	87-010-369-080		C-CAP,S 0.033-25 K B
C303	87-010-183-080		C-CAP,S 2700P-50 B
C304	87-010-183-080		C-CAP,S 2700P-50 B
C305	87-010-404-080		CAP, ELECT 4.7-50V
C306	87-010-404-080		CAP, ELECT 4.7-50V
C323	87-012-157-080		C-CAP,S 330P-50 CH
C324	87-012-157-080		C-CAP,S 330P-50 CH
C341	87-010-196-080		CHIP CAPACITOR,0.1-25
C342	87-010-196-080		CHIP CAPACITOR,0.1-25
C343	87-010-196-080		CHIP CAPACITOR,0.1-25
C345	87-010-404-080		CAP, ELECT 4.7-50V
C346	87-010-404-080		CAP, ELECT 4.7-50V
C347	87-010-404-080		CAP, ELECT 4.7-50V
C348	87-010-404-080		CAP, ELECT 4.7-50V
C361	87-010-400-080		CAP, ELECT 0.47-50V
C362	87-010-400-080		CAP, ELECT 0.47-50V
C363	87-010-400-080		CAP, ELECT 0.47-50V
C364	87-010-400-080		CAP, ELECT 0.47-50V
C365	87-010-182-080		C-CAP,S 2200P-50 B
C366	87-010-182-080		C-CAP,S 2200P-50 B
C367	87-010-182-080		C-CAP,S 2200P-50 B
C368	87-010-182-080		C-CAP,S 2200P-50 B
C369	87-010-182-080		C-CAP,S 2200P-50 B
C370	87-010-182-080		C-CAP,S 2200P-50 B
C371	87-010-196-080		CHIP CAPACITOR,0.1-25
C372	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-010-196-080		CHIP CAPACITOR,0.1-25
C374	87-010-196-080		CHIP CAPACITOR,0.1-25
C375	87-010-402-080		CAP, ELECT 2.2-50V
C376	87-010-402-080		CAP, ELECT 2.2-50V
C377	87-010-247-080		CAP, ELECT 100-50V
C378	87-010-401-080		CAP, ELECT 1-50V
C379	87-010-406-080		CAP, ELECT 22-50
C381	87-010-402-080		CAP, ELECT 2.2-50V
C382	87-010-402-080		CAP, ELECT 2.2-50V
C401	87-012-156-080		C-CAP,S 220P-50 CH
C402	87-012-156-080		C-CAP,S 220P-50 CH
C403	87-014-059-080		CAP,PP 1200P-100 J
C405	87-010-263-080		CAP, ELECT 100-10V
C409	87-010-402-080		CAP, ELECT 2.2-50V
C410	87-010-405-080		CAP, ELECT 10-50V
C411	87-010-178-080		CHIP CAP 1000P
C412	87-010-221-080		CAP, ELECT 470-10V
C414	87-010-196-080		CHIP CAPACITOR,0.1-25
C451	87-010-237-080		CAP, ELECT 1000-16V
C452	87-010-101-080		CAP, ELECT 220-16
C453	87-010-404-080		CAP, ELECT 4.7-50V
C454	87-010-248-080		CAP, ELECT 220-10V
C455	87-010-401-080		CAP, ELECT 1-50V
C456	87-010-401-080		CAP, ELECT 1-50V
C457	87-010-263-080		CAP, ELECT 100-10V
C458	87-010-381-080		CAP, ELECT 330-16V
C459	87-010-196-080		CHIP CAPACITOR,0.1-25
C481	87-010-406-080		CAP, ELECT 22-50

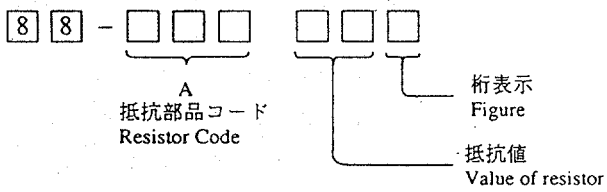
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C482	87-010-406-080		CAP, ELECT 22-50
C483	87-010-263-080		CAP, ELECT 100-10V
C484	87-010-408-080		CAP, ELECT 47-50V
C485	87-010-221-080		CAP, ELECT 470-10V
C486	87-010-221-080		CAP, ELECT 470-10V
C501	87-010-405-080		CAP, ELECT 10-50V
C502	87-010-198-080		CAP, CHIP 0.022
C503	87-010-196-080		CHIP CAPACITOR,0.1-25
C504	87-010-196-080		CHIP CAPACITOR,0.1-25
C505	87-010-196-080		CHIP CAPACITOR,0.1-25
C506	87-018-209-080		CAP, CER 0.1-50V
C516	87-010-381-080		CAP, ELECT 330-16V
C517	87-010-404-080		CAP, ELECT 4.7-50V
C518	87-010-404-080		CAP, ELECT 4.7-50V
C519	87-010-405-080		CAP, ELECT 10-50V
C520	87-010-405-080		CAP, ELECT 10-50V
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-012-154-080		C-CAP,S 150P-50 CH
C523	87-010-405-080		CAP, ELECT 10-50V
C524	87-010-316-080		C-CAP,S 33P-50 CH
C525	87-012-154-080		C-CAP,S 150P-50 CH
C526	87-012-154-080		C-CAP,S 150P-50 CH
C527	87-010-387-080		CAP,E 470-25 SME
C528	87-010-384-080		CAP, ELECT 100-25V
C529	87-010-374-080		CAP, ELECT 47-10V
C530	87-010-316-080		C-CAP,S 33P-50 CH
C531	87-010-316-080		C-CAP,S 33P-50 CH
C533	87-012-157-080		C-CAP,S 330P-50 CH
C534	87-012-157-080		C-CAP,S 330P-50 CH
C535	87-012-154-080		C-CAP,S 150P-50 CH
C536	87-012-154-080		C-CAP,S 150P-50 CH
C601	87-010-182-080		C-CAP,S 2200P-50 B
C602	87-010-196-080		CHIP CAPACITOR,0.1-25
C603	87-010-196-080		CHIP CAPACITOR,0.1-25
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-404-080		CAP, ELECT 4.7-50V
C606	87-010-193-080		CHIP CAPACITOR,0.033
C607	87-010-197-080		CAP, CHIP 0.01 DM
C608	87-010-402-080		CAP, ELECT 2.2-50V
C609	87-010-265-080		CAP, ELECT 33-16V
C610	87-010-213-080		C-CAP,S 0.015-50 B
C611	87-010-197-080		CAP, CHIP 0.01 DM
C612	87-010-263-080		CAP, ELECT 100-10V
C613	87-018-134-080		CAPACITOR,TC-U 0.01-16
C614	87-010-193-080		CHIP CAPACITOR,0.033
C615	87-010-197-080		CAP, CHIP 0.01 DM
C616	87-010-193-080		CHIP CAPACITOR,0.033
C617	87-010-197-080		CAP, CHIP 0.01 DM
C618	87-010-146-080		CHIP CAP 2PF
C619	87-010-154-080		CAP CHIP 10P
C620	87-010-263-080		CAP, ELECT 100-10V
C621	87-010-178-080		CHIP CAP 1000P
C622	87-010-198-080		CAP, CHIP 0.022
C623	87-010-196-080		CHIP CAPACITOR,0.1-25
C624	87-010-197-080		CAP, CHIP 0.01 DM
C625	87-010-263-080		CAP, ELECT 100-10V
C626	87-010-248-080		CAP, ELECT 220-10V
C627	87-010-197-080		CAP, CHIP 0.01 DM
C628	87-010-260-080		CAP, ELECT 47-25V
C629	87-010-196-080		CHIP CAPACITOR,0.1-25
C640	87-010-196-080		CHIP CAPACITOR,0.1-25
C641	87-010-221-080		CAP, ELECT 470-10V
C642	87-010-196-080		CHIP CAPACITOR,0.1-25
C643	87-010-197-080		CAP, CHIP 0.01 DM
C644	87-010-263-080		CAP, ELECT 100-10V
C645	87-010-221-080		CAP, ELECT 470-10V
C646	87-010-197-080		CAP, CHIP 0.01 DM
C647	87-010-196-080		CHIP CAPACITOR,0.1-25
C648	87-010-196-080		CHIP CAPACITOR,0.1-25
C649	87-010-193-080		CHIP CAPACITOR,0.033

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C661	87-010-196-080		CHIP CAPACITOR,0.1-25
C662	87-010-260-080		CAP, ELECT 47-25V
C681	87-010-197-080		CAP, CHIP 0.01 DM
C692	87-010-381-080		CAP, ELECT 330-16V
C693	87-010-196-080		CHIP CAPACITOR,0.1-25
C701	87-010-194-080		CAP, CHIP 0.047
C702	87-010-188-080		CAP,CHIP 6800P
C703	87-010-186-080		CAP,CHIP 4700P
C704	87-012-156-080		C-CAP,S 220P-50 CH
C705	87-010-404-080		CAP, ELECT 4.7-50V
C706	87-010-263-080		CAP, ELECT 100-10V
C707	87-010-197-080		CAP, CHIP 0.01 DM
C708	87-010-400-080		CAP, ELECT 0.47-50V
C709	87-010-197-080		CAP, CHIP 0.01 DM
C711	87-010-196-080		CHIP CAPACITOR,0.1-25
C712	87-010-314-080		C-CAP,S 22P-50V
C713	87-010-263-080		CAP, ELECT 100-10V
C714	87-010-197-080		CAP, CHIP 0.01 DM
C715	87-010-318-080		C-CAP,S 47P-50 CH
C716	87-010-318-080		C-CAP,S 47P-50 CH
C717	87-018-134-080		CAPACITOR,TC-U 0.01-16
C741	87-012-153-080		C-CAP,S 120P-50 CH
C742	87-012-153-080		C-CAP,S 120P-50 CH
C743	87-010-321-080		CHIP CAPACITOR,82P(J)
C744	87-010-321-080		CHIP CAPACITOR,82P(J)
C745	87-010-321-080		CHIP CAPACITOR,82P(J)
C746	87-010-321-080		CHIP CAPACITOR,82P(J)
C747	87-012-153-080		C-CAP,S 120P-50 CH
C748	87-012-153-080		C-CAP,S 120P-50 CH
C749	87-012-153-080		C-CAP,S 120P-50 CH
C750	87-012-153-080		C-CAP,S 120P-50 CH
C751	87-010-405-040		CAP,E 10-50
C752	87-010-405-040		CAP,E 10-50
C753	87-010-186-080		CAP,CHIP 4700P
C754	87-010-186-080		CAP,CHIP 4700P
C755	87-010-381-080		CAP, ELECT 330-16V
C756	87-010-263-040		CAP,E 100-10
C771	87-010-322-080		C-CAP,S 100P-50 CH
C772	87-010-322-080		C-CAP,S 100P-50 CH
C773	87-010-318-080		C-CAP,S 47P-50 CH
C774	87-018-131-080		CAP, CER 1000P-50V
C791	87-010-263-080		CAP, ELECT 100-10V
C792	87-010-197-080		CAP, CHIP 0.01 DM
C901	87-018-149-080		CAP,TC-U 15P-50 CH
C902	87-012-145-080		CAP, CHIP S 270P CH
C941	87-010-196-080		CHIP CAPACITOR,0.1-25
C942	87-010-196-080		CHIP CAPACITOR,0.1-25
C943	87-010-384-080		CAP, ELECT 100-25V
C944	87-010-322-080		C-CAP,S 100P-50 CH
C945	87-010-322-080		C-CAP,S 100P-50 CH
C946	87-010-322-080		C-CAP,S 100P-50 CH
C947	87-010-322-080		C-CAP,S 100P-50 CH
C948	87-010-322-080		C-CAP,S 100P-50 CH
C949	87-010-322-080		C-CAP,S 100P-50 CH
EMI803	87-008-372-080		FILTER, EMI BL OIRNI
EMI804	87-008-372-080		FILTER, EMI BL OIRNI
EMI805	87-008-372-080		FILTER, EMI BL OIRNI
EMI807	87-008-372-080		FILTER, EMI BL OIRNI
FC1	85-NFT-611-110		FF-CABLE 16P-1.0
FC2	88-916-301-210		FF-CABLE,16P 1.25
FC3	88-909-251-210		FF-CABLE,9P 1.25
FC4	88-906-201-110		FF-CABLE,6P 1.25
FC5	84-ZG1-630-010		CABLE FFC 6P-1.25
FL901	86-NV1-619-010		FL,7-ST-27G
J901	81-VP1-635-010		JACK,PIN 3P EARTH
J902	81-VP1-634-010		JACK,PIN 3P
J903	81-VP1-635-010		JACK,PIN 3P EARTH
L301	86-NV1-618-010		COIL,TRAP 108K
L302	86-NV1-618-010		COIL,TRAP 108K
L303	87-003-131-080		COIL, 10MH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L304	87-003-131-080		COIL, 10MH
L305	87-003-123-080		COIL, 2.2MH
L306	87-003-123-080		COIL, 2.2MH
L401	86-NV1-617-010		COIL,OSC BIAS 108K
L402	87-005-447-080		COIL,180UH FLR50
L451	87-005-474-080		COLL,12UH J FLR50
L601	87-003-102-080		COIL, 10UH
L901	87-A50-052-010		COIL,CLOCK 5.76MHZ T1
L902	87-005-165-080		COIL 1UH (H,E)
LED791	87-A40-123-010		LED,SLZ-8128A-01-B
LED910	87-070-108-010		LED SLF301C-37
LED911	87-070-108-010		LED SLF301C-37
SFR101	87-024-238-080		SFR,1K DIA6 V TP
SFR102	87-024-238-080		SFR,1K DIA6 V TP
SFR151	87-024-238-080		SFR,1K DIA6 V TP
SFR152	87-024-238-080		SFR,1K DIA6 V TP
SFR301	87-024-271-080		SFR4.7K DIA6 V
SFR302	87-024-271-080		SFR4.7K DIA6 V
SFR401	87-024-275-080		SFR 47K DIA6V TP
SFR402	87-024-275-080		SFR 47K DIA6V TP
SFR601	87-024-175-080		SEMI-FIXED RESISTOR, 47K
SFR602	87-024-176-080		SEMI-FIXED RESISTOR, 100K
SFR603	87-024-176-080		SEMI-FIXED RESISTOR, 100K
SW731	87-036-109-010		PUSH SWITCH
SW732	87-036-109-010		PUSH SWITCH
VR501	86-NV1-616-010		VR,RTRY 50KBX2 H RK14K12A0L30
VR502	81-MX4-636-010		VR,50KBX2 RK14K12AO
X701	87-030-270-080		VIB,XTAL 16.9344MHZ
KEY1 C.B			
LED901	87-017-717-010		LED SEL2510C GRN
LED902	87-017-717-010		LED SEL2510C GRN
LED903	87-017-717-010		LED SEL2510C GRN
LED904	87-017-717-010		LED SEL2510C GRN
LED905	87-017-717-010		LED SEL2510C GRN
LED906	87-017-717-010		LED SEL2510C GRN
S901	87-A90-095-080		SW,TACT EVQ11G04M
S902	87-A90-095-080		SW,TACT EVQ11G04M
S903	87-A90-095-080		SW,TACT EVQ11G04M
S904	87-A90-095-080		SW,TACT EVQ11G04M
S905	87-A90-095-080		SW,TACT EVQ11G04M
S906	87-A90-095-080		SW,TACT EVQ11G04M
S907	87-A90-095-080		SW,TACT EVQ11G04M
S908	87-A90-095-080		SW,TACT EVQ11G04M
S909	87-A90-095-080		SW,TACT EVQ11G04M
S910	87-A90-095-080		SW,TACT EVQ11G04M
KEY2 C.B			
LED907	87-A40-317-080		LED,SLR-342VCT31 RED
LED908	87-A40-317-080		LED,SLR-342VCT31 RED
LED909	87-A40-317-080		LED,SLR-342VCT31 RED
S912	87-A90-095-080		SW,TACT EVQ11G04M
S913	87-A90-095-080		SW,TACT EVQ11G04M
S914	87-A90-095-080		SW,TACT EVQ11G04M
S915	87-A90-095-080		SW,TACT EVQ11G04M
S916	87-A90-095-080		SW,TACT EVQ11G04M
LED C.B			
LED701	87-A40-268-080		LED,SLH-56DCT31 ORN
LED702	87-A40-316-080		LED,SLR-56PCT31 GRN
LED703	87-A40-316-080		LED,SLR-56PCT31 GRN
LED704	87-A40-268-080		LED,SLH-56DCT31 ORN
DECK C.B			
	82-ZM3-601-010		RBN,CORD,4P-75
CON501	87-099-879-010		CONN,16P 6216
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY, 27
SOL2	82-ZM1-618-310		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW7	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A
W105	86-NV1-612-010		CONN ASSY,8P DECK 2
T-T C.B			
C401	87-018-214-089		CAP,TC-U 0.1-50 F
FC401	84-ZG1-614-119		CABLE FFC 5P-1.25
M401	87-045-364-019		MOTOR,(BCH3B14)
PS401	87-026-573-019		P-SNSR,GP1S53V
DRIVE C.B			
M1	87-045-358-019		MOT,RF-310TA 43
M2	87-045-356-019		MOT,RF-310TA 30
SW1	87-A90-042-019		SW,LEAF MSW 17310 MVPO

○ 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

E C B

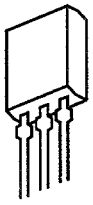
2SC1815
2SC3266
KTA1266GR
2SA1296

E C B

2SC2001
2SA952
CSD655E

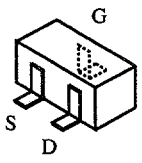
E C B

2SA933S

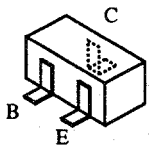


E C B

2SD2172

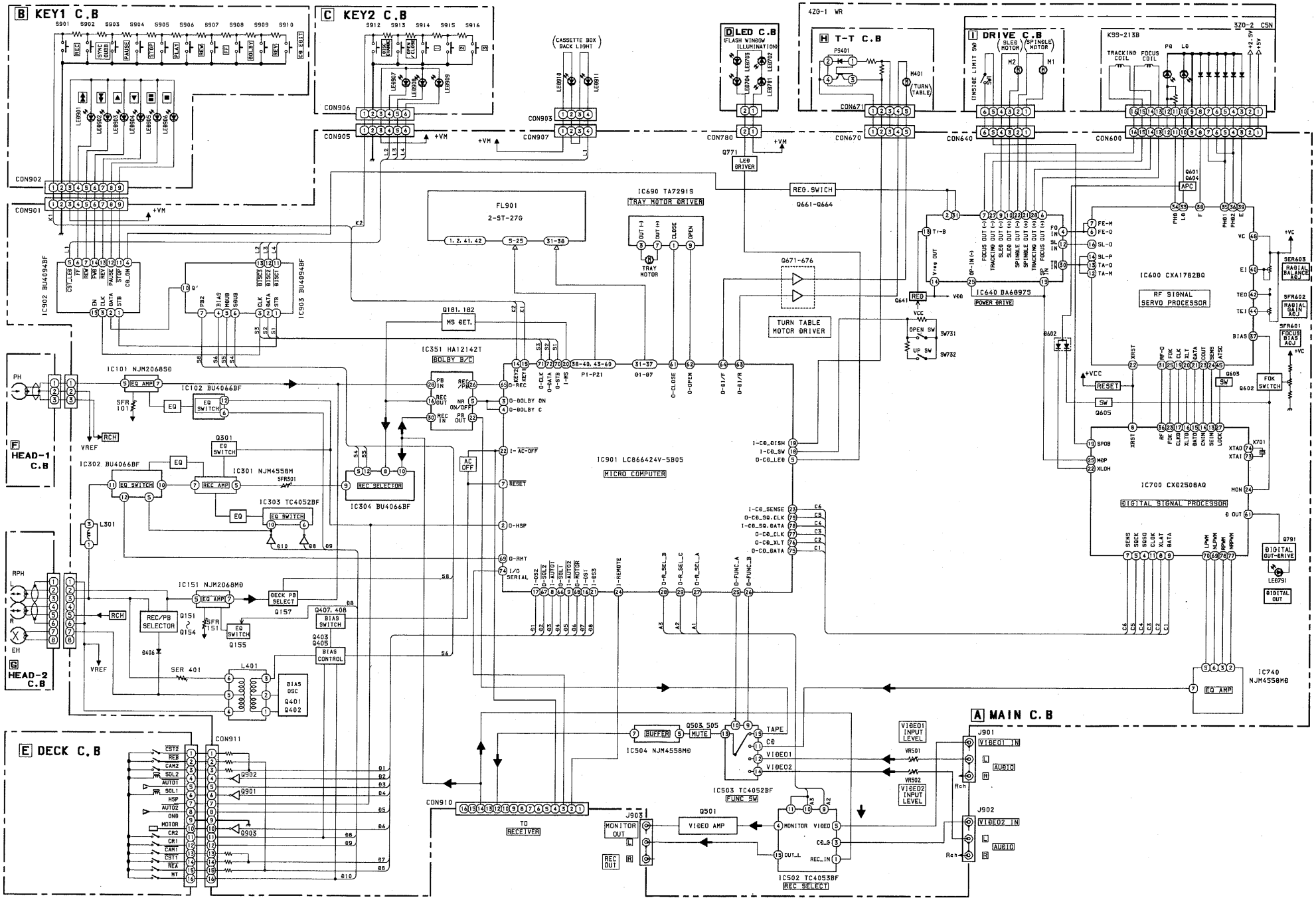


2SK368GR

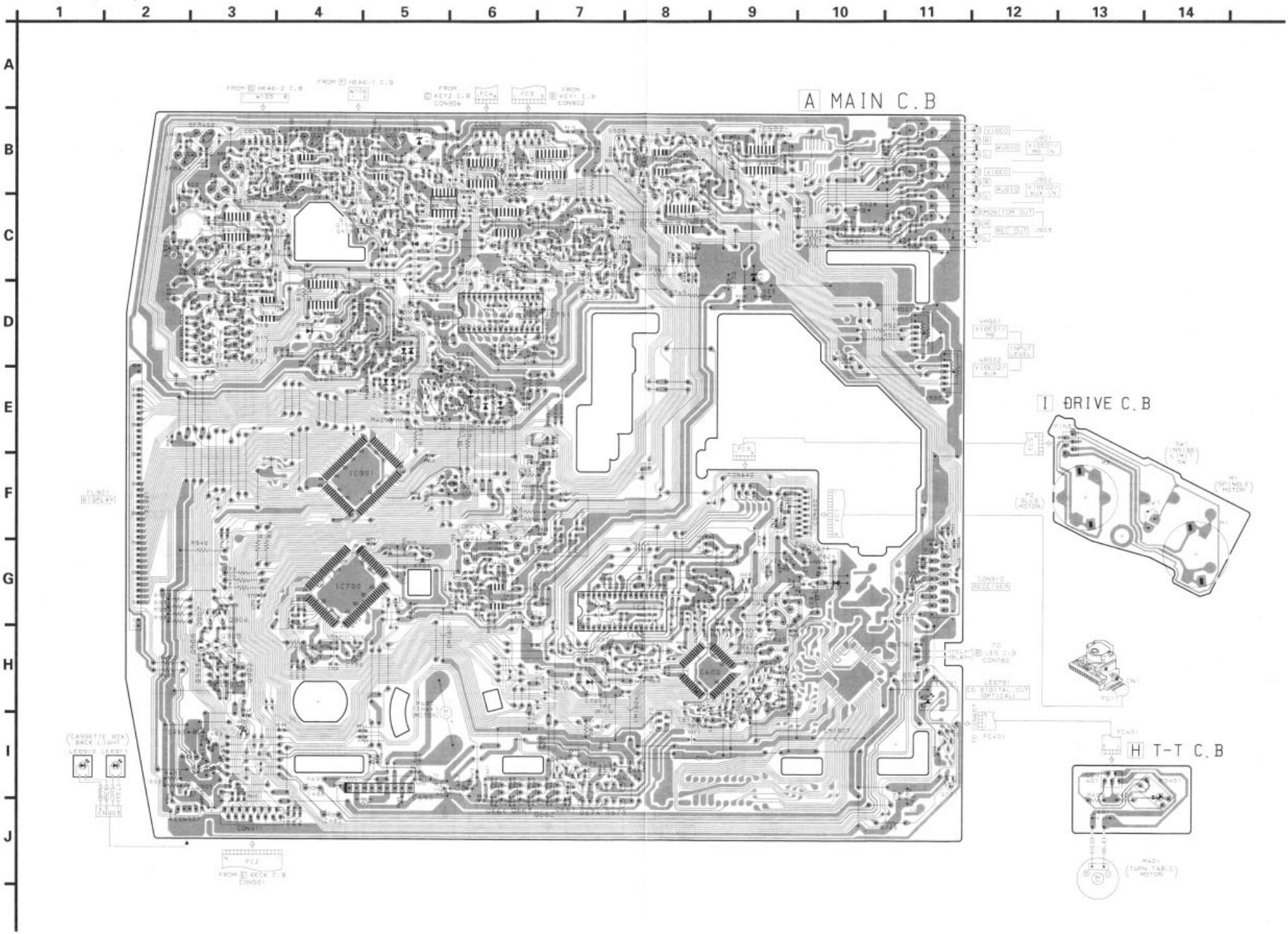


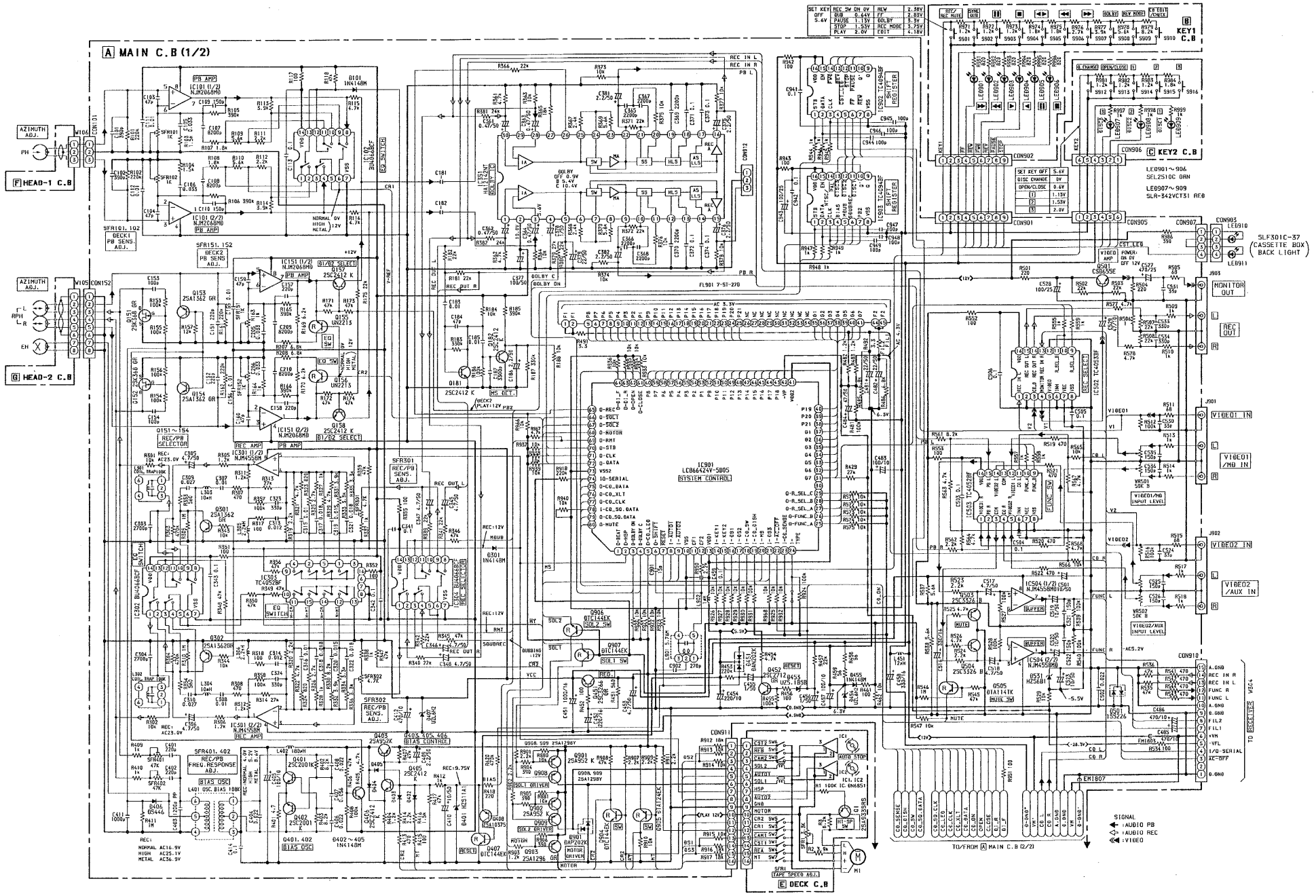
2SA1362GR	DTA144EK
UN2213	DTC114TK
2SC2412KR	DTC143TK
DTC144EK	DTC123JK
2SA1037S	DTA124EK
2SC3326	2SD1383
DTA114TK	2SA1298

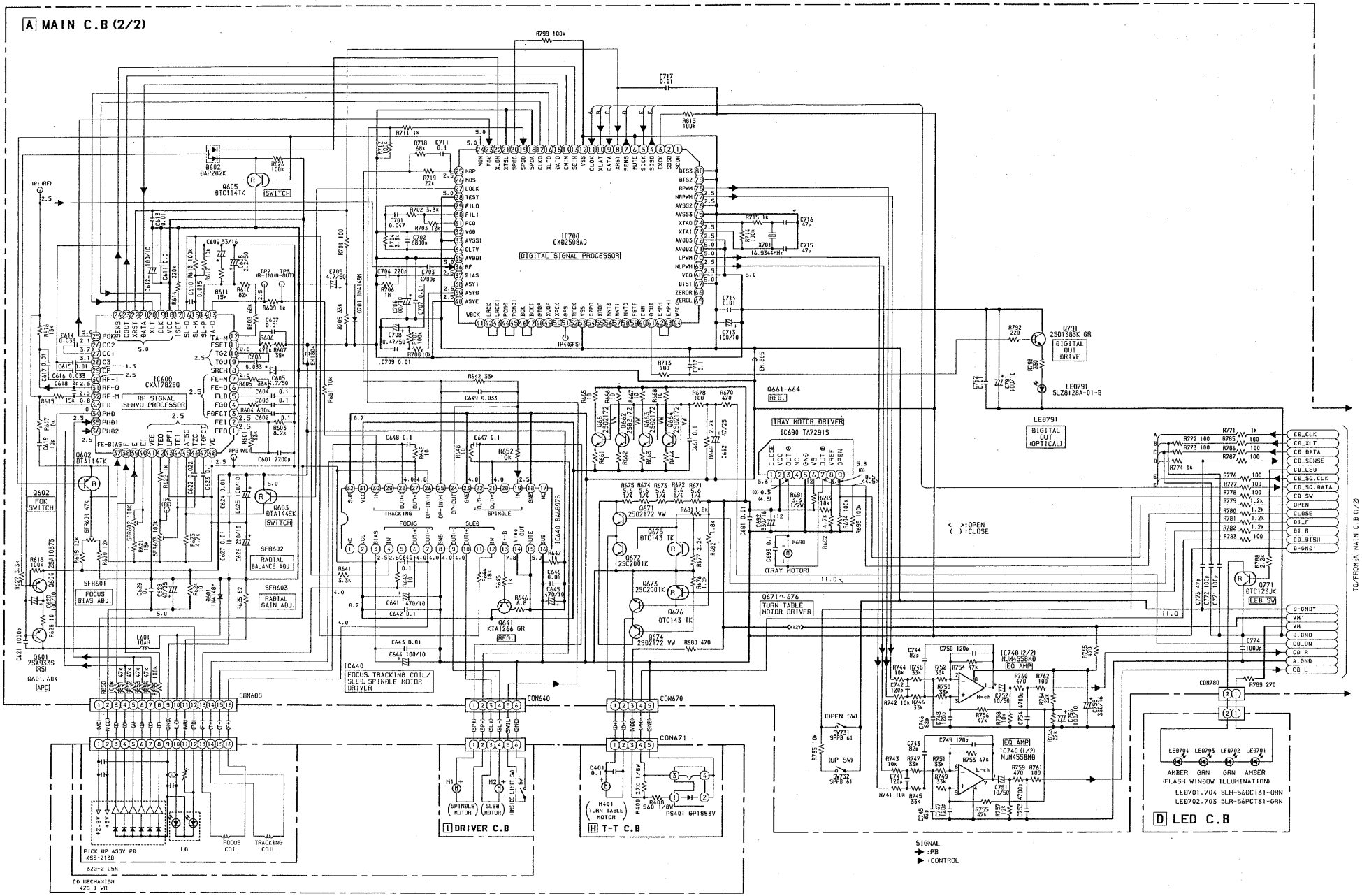
BLOCK DIAGRAM

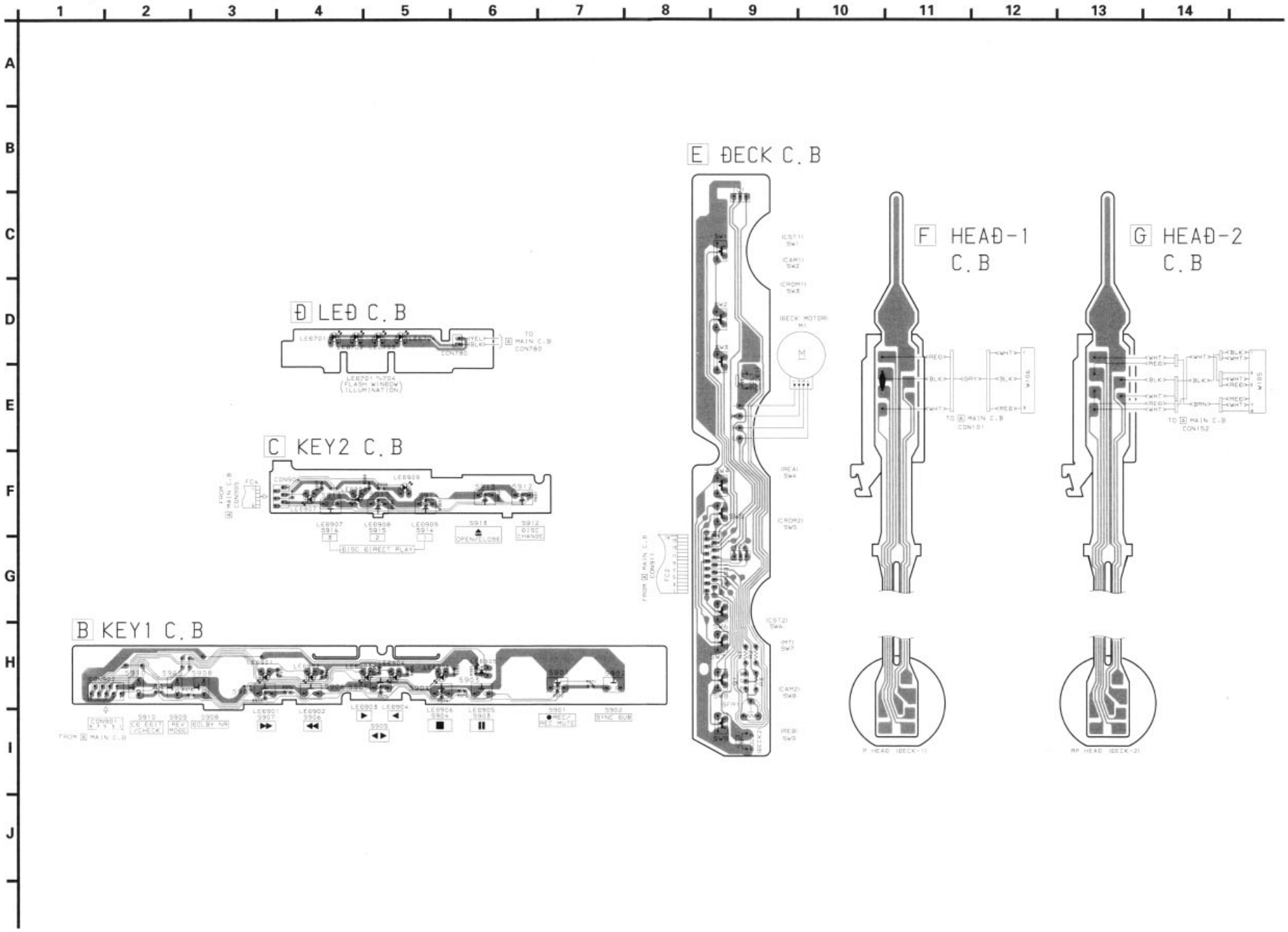


WIRING – 1 (MAIN)




A MAIN C.B (1/2)
F HEAD-1 C.B
G HEAD-2 C.B
E DECK C.B
B KEY1 C.B
C KEY2 C.B
IC901 LC866424V-5D05 SYSTEM CONTROL
IC101 (1/2) NJM2068MD PB AMP
IC101 (2/2) NJM2068MD PB AMP
IC151 (1/2) NJM2068MD PB AMP
IC151 (2/2) NJM2068MD REC/PB AMP
IC501 (1/2) NJM4558M REC AMP
IC501 (2/2) NJM4558M REC AMP
IC302 BU4066BCF
IC303 TC4052BF
IC102 BU4066BCF
IC902 TC4094BF SHIFT REGISTER
IC903 TC4094BF SHIFT REGISTER
IC502 TC40539F REC SELECT
IC504 (1/2) NJM4558MD BUFFER
IC504 (2/2) NJM4558MD BUFFER
IC1, IC2 R1 100K IC: BN6851
FL901 7-ST-27G
SLF301C-37 (CASSETTE BOX BACK LIGHT)
LED901~906 SEL2510C GRN
LED907~909 SLR-342VCT31 RED
MONITOR OUT
REC OUT
VIDEO1 IN
VIDEO1 /MB IN
VIDEO2 /AUX IN
TO/FROM A MAIN C.B (2/2)
SIGNAL
:AUDIO PB
:AUDIO REC
:VIDEO


A MAIN C.B (2/2)
IC700
CXD2508AQ
DIGITAL SIGNAL PROCESSOR
IC600
CXA1782BQ
RF SIGNAL SERVO PROCESSOR
IC640
FOCUS, TRACKING COIL/ SLED, SPINDLE MOTOR DRIVER
IC690 TA72915
TRAY MOTOR DRIVER
Q661~664
REG.
Q671~676
TURN TABLE MOTOR DRIVER
Q441
KTA1266 GR
REG.
Q791
2SD1383K GR
DIGITAL OUT DRIVE
LE0791
SLZ8128A-01-B
LE0791
(OPTICAL)
Q771
DTC123JK
LED SW
IC740 (1/2)
NJM4558MD
EQ AMP
IC740 (1/2)
NJM4558MD
EQ AMP
SW731
SPB 61
(OPEN SW)
SW732
SPB 61
(UP SW)
(TRAY MOTOR)
< >:OPEN
( ):CLOSE
SFR601
FOCUS BIAS ADJ.
SFR602
RADIAL BALANCE ADJ.
SFR603
RADIAL GAIN ADJ.
CON600
CON640
CON670
CON671
CON780
I DRIVER C.B
H T-T C.B
D LED C.B
PICK UP ASSY PB
KSS-213B
SZG-2 CSN
CD MECHANISM
42G-1 WR
FOCUS COIL
TRACKING COIL
LO
(SPINDLE MOTOR)
(SLED MOTOR)
(TURN TABLE MOTOR)
PS401 GP1S52V
SIGNAL
:PB
:CONTROL
TO/FROM A MAIN C.B (1/2)
CD_CLK
CD_XLT
CD_DATA
CD_SENSE
CD_LED
CD_SQ_CLK
CD_SQ_DATA
CD_SW
OPEN
CLOSE
DI_F
DI_R
CD_DISH
D-GND
VM
D_GND
CD_ON
CD_R
A_GND
CD_L
AMBER GRN GRN AMBER
(FLASH WINDOW ILLUMINATION)
LED701.704 SLH-560CT31-ORN
LED702.705 SLR-56PCT31-GRN


1
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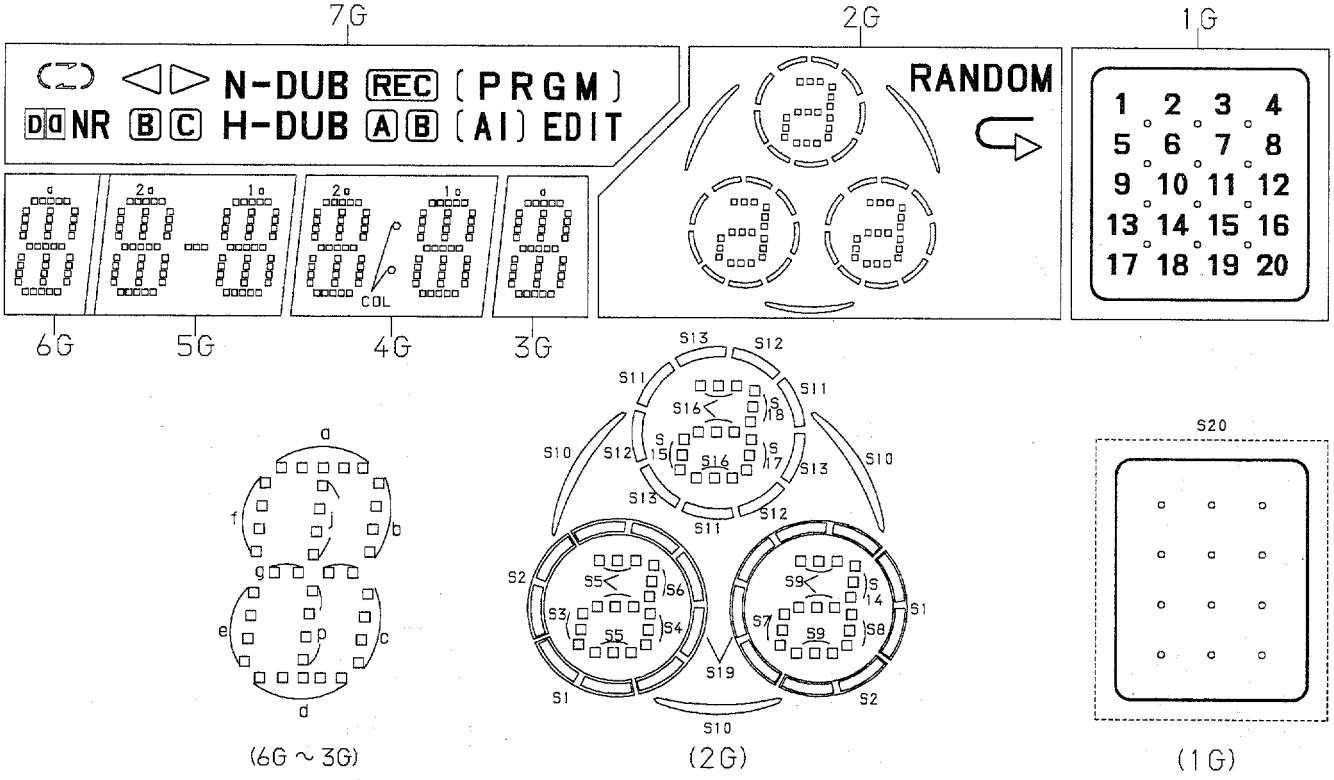
C
D
E
F
G
H
I
J
Đ LEĐ C. B
C KEY2 C. B
B KEY1 C. B
E ĐECK C. B
F HEAĐ-1 C. B
G HEAĐ-2 C. B

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

GRID ASSIGNMENT



ANODE CONNECTION

	7G	6G	5G	4G	3G	2G	1G
P1	DD NR	d	1d	1d	d	S1	**20**
P2	C	p	1p	1p	p	S2	**19**
P3	⇄	e	1e	1e	e	S3	**18**
P4	C	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	—	—	□□□	COL (HIGH)	—	S19	**2**
P20	—	—	—	COL (LOW)	—	↻	**1**
P21	—	—	—	—	—	**RANDOM**	S20

IC DESCRIPTION

IC, LC866424V-5B05

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	$\overline{\text{RESET}}$	I	Reset input (Reset at "L").
8	I-$\overline{\text{AUTO 1}}$	I	Deck 1 auto stop input.
9	I-$\overline{\text{AUTO 2}}$	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.
27	O-R-SEL/A	O	Video signal switch. (VIDEO $\overline{1}$/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.

	AUX1	AUX2	TAPE	CD
A	0	1	0	1
B	0	0	1	1

67	O-$\overline{\text{SOL2}}$	O	Deck 2 plunger $\overline{\text{ON}}$/OFF output.
68	O-$\overline{\text{MOTOR}}$	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 ON/$\overline{\text{OFF}}$ output.

IC, CXD2508AQ

Pin No.	Pin Name	I/O	Description
1	SCOR	O	1H 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.
18	TEST1	I	TEST. (Connected to GND)
19	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)

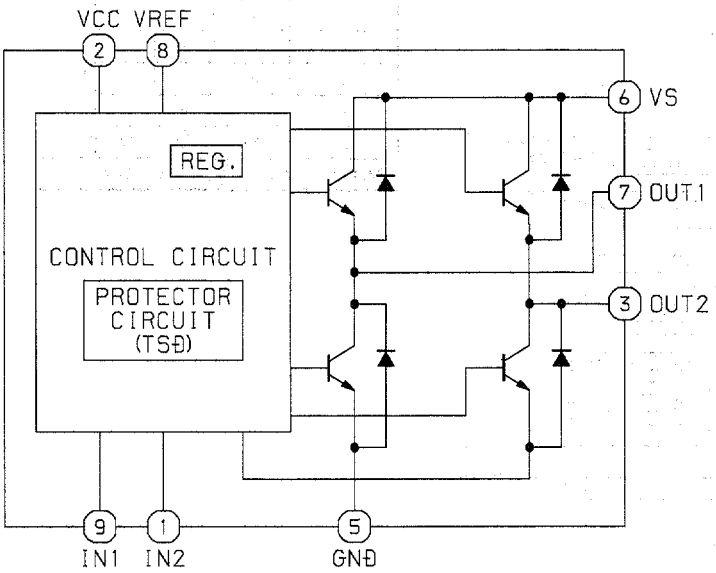
IC, CXA1782BQ

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	FDFCT	I	Capacitor connection pin for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
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	—	+ 5 V power supply pin.
19	CLK	I	Serial data transfer clock input from CPU.
20	XLT	I	Latch input from CPU.
21	DATA	I	Serial data input from CPU.
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 from CPU.
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. (Eye pattern check point)
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.

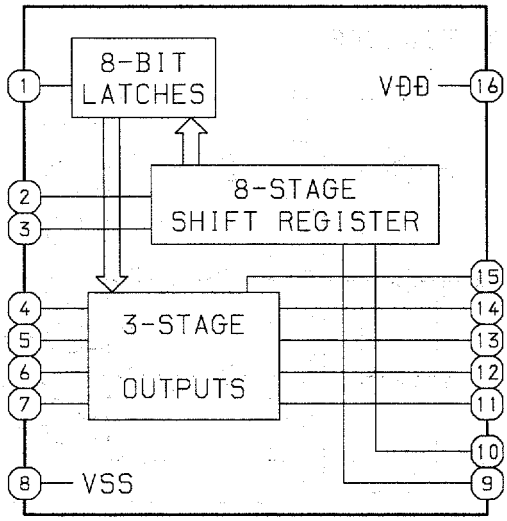
Pin No.	Pin Name	I/O	Description
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35~36	PHD1~2	I	RF I-V amplifier inverted input pin. These pins are connected to the A+C and B+D pins of the optical pickup.
37	FE BIAS	I	Bias adjustment pin of the focus error amplifier.
38~39	F~E	I	F 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. E-F signal is output.
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

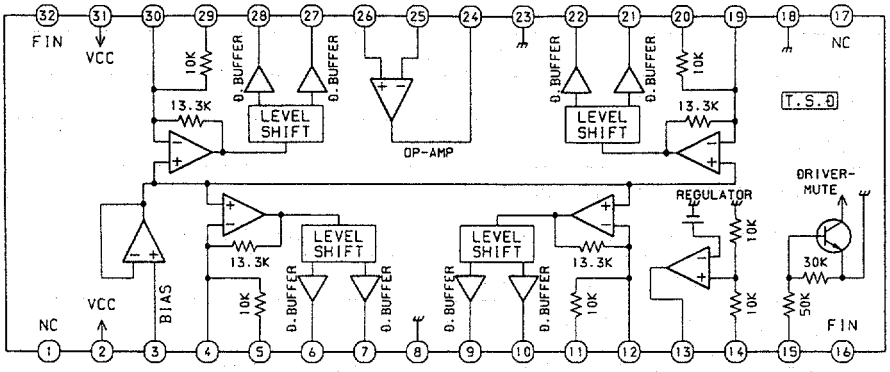
IC, TA7291S



IC, TC4094BF

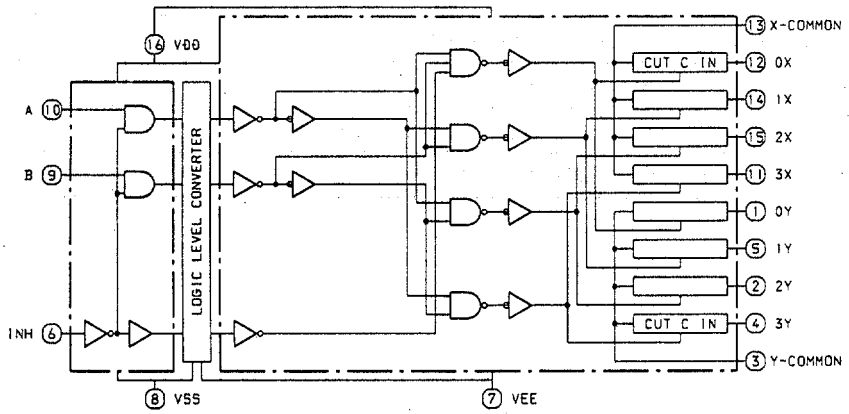


IC, BA6897S



T.S.Ø: THERMAL SHUT ØOWN CIRCUIT
Ø.BUFFER: ØRIVE BUFFER

IC, TC4052BF

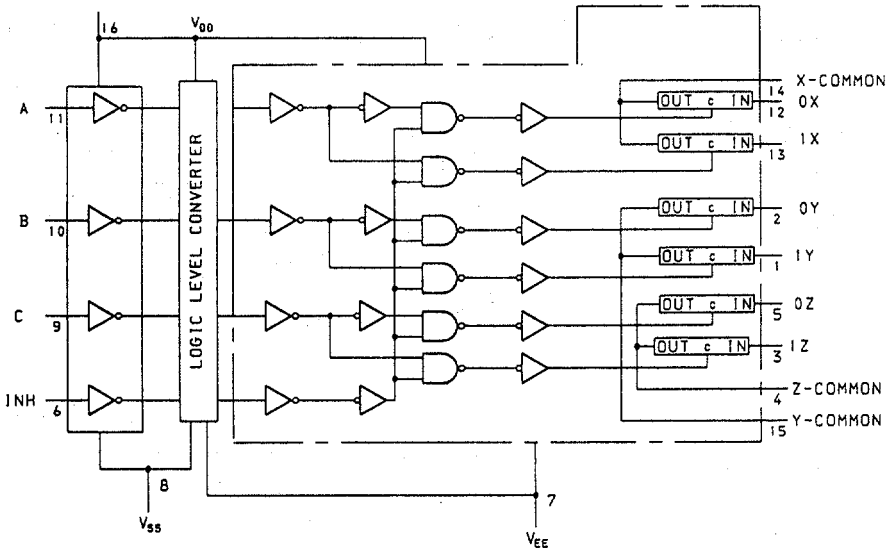


TRUTH TABLE

CONTROL INPUTS			
INHIBIT	C △	B	A
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	L
L	H	H	H
H	※	※	※

※:ØON'T Care △Expect TC4052B

IC, TC4053BF



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.

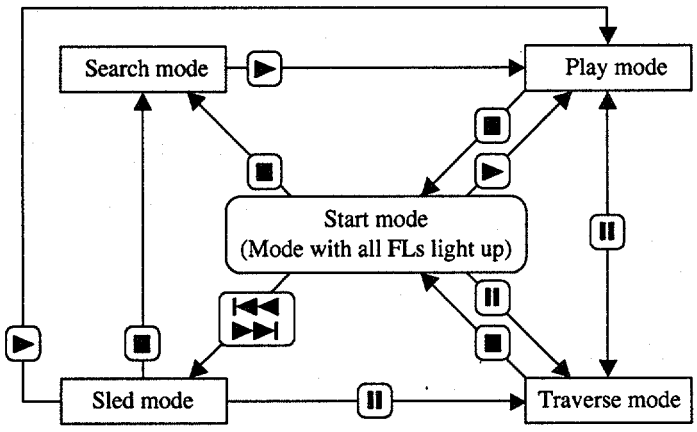
Mode	Operation	FL display	Operation	Contents
Start mode	Test mode activation	All FL light up	• Laser diode illuminated under normal circumstances (CD block power supply ON)	Displays the machine mode that it is a test mode. All FL displays light up
Search mode	■ key	– – –	• Continual focus search * NOTE 1 (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes.	FOCUS SERVO • 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	/ –	• 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	/ –	• 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 ⏭	All FL light up	• 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.

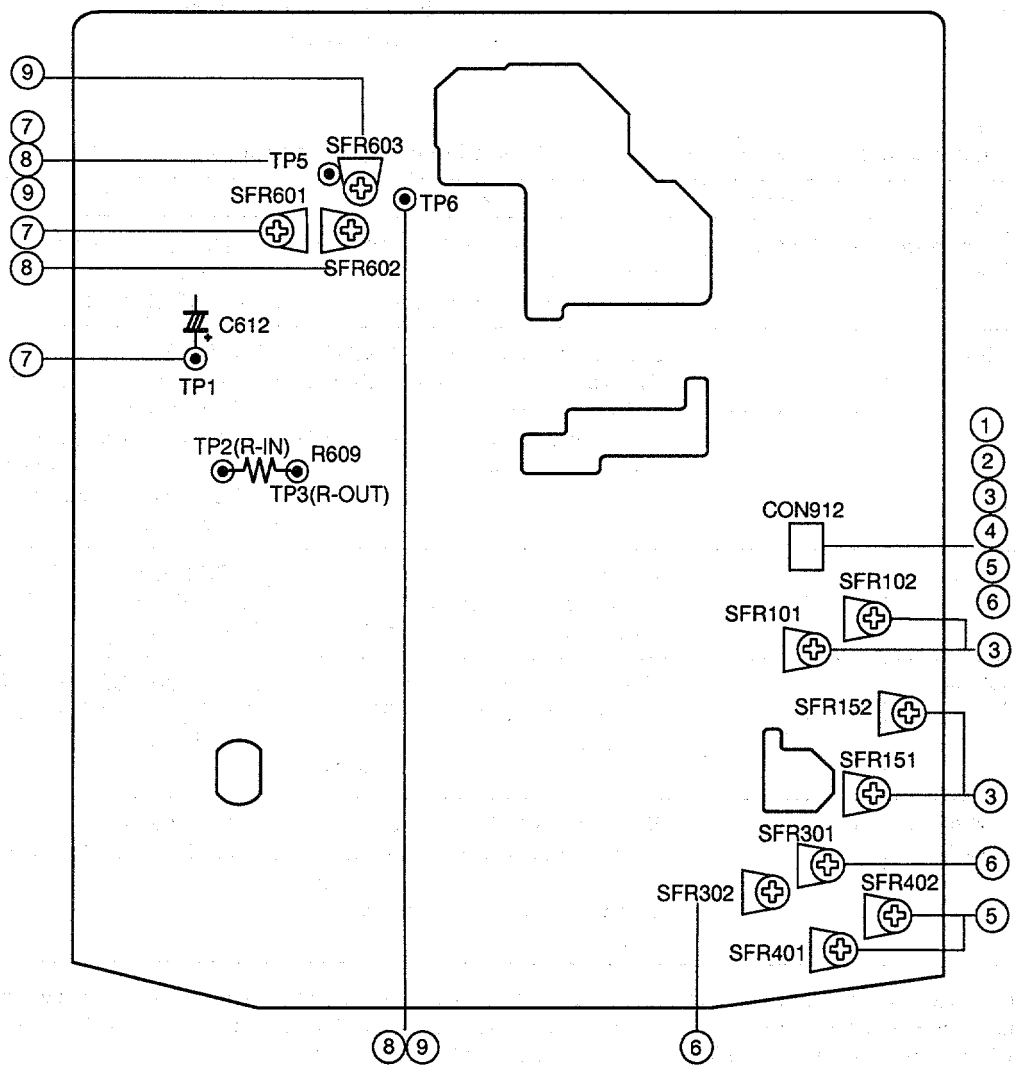
* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the ⏸ status is active. If they are pressed, playback will not be possible after the ⏸ status has been canceled. If the ⏮ or ⏭ keys are pressed in the ⏸ status, press the ■ key and return to start mode (No. 1).

* 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.

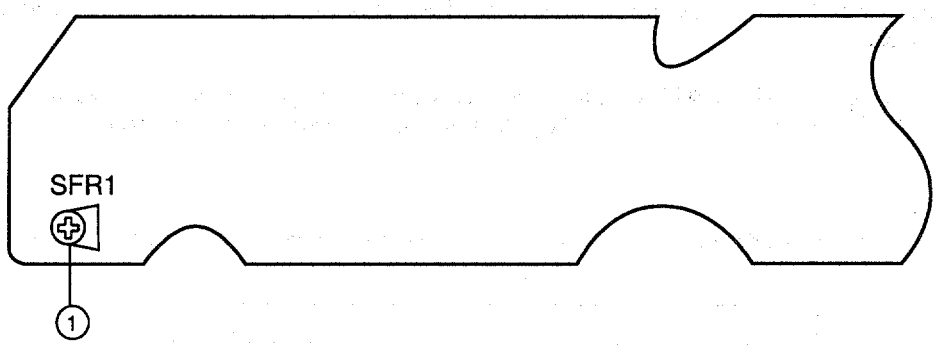
4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



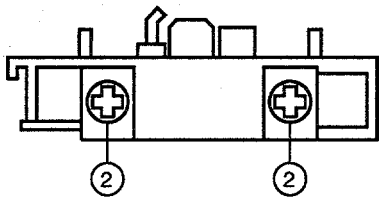
A MAIN C.B



E DECK C.B



DECK R / P E HEAD



< DECK SECTION >

1. Tape Speed Adjustment
   Settings : • Test tape : TTA-100
   • Test point : TP CONN 3P(CON 912)
   • Adjustment location : SFR1
   Method : Play back the test tape and check for 3000Hz± 5Hz.
   (NOTE) : RVS SIDE SPEED SPECIFICATION FWD SIDE SPECIFICATION± 45Hz.

2. Head Azimuth Adjustment(DECK 1,2)
   Settings : • Test tape : TTA–300
   • Test point : TP CONN 3P(CON912)
   • 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 Adjustment (DECK 1,2)
   Settings : • Test tape : TTA–200
   • Test point : TP CONN 3P (CON 912)
   • Adjustment location : SFR 101 (Lch,DECK1)
   SFR 102 (Rch,DECK1)
   SFR 151 (Lch,DECK2)
   SFR 152 (Rch,DECK2)
   Method : Play back the test tape and adjust SFRs so that the output level becomes 300±5mV

4. PB Frequency Response Check
   Settings : • Test tape : TTA–300
   • Test point : TP CONN 3P (CON912)
   Method : Play back the 315Hz and 10kHz signals of the test tape and check output difference to within 0dB± 2dB,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 (CON912)
   • 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 0dB ± 0.3dB.

6. REC/PB Sensitivity Adjustment(DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP CONN 3P (CON 912)
   • Input signal : 1kHz (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(CON912) becomes 21mV. Record and play back the 1kHz signals and adjust SFRs that the output is 21mV ± 0.3dB.

PRACTICAL SERVICE FIGURE

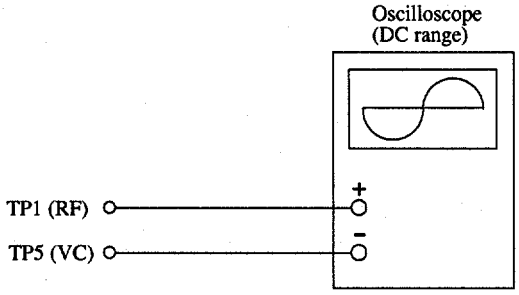
<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD REV)
F.F & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD REV)
Distortion :	Less than 2.0% (REC/PB, AC)
Noise level(PB) :	Less than 1.2 / 0.4 mV
	(DOLBY OFF LINEAR/WTD,CrO2)
	Less than 1.8 / 0.6 mV
	(DOLBY OFF LINEAR/WTD,NORMAL)
	Less than 0.8 / 0.16 mV
	(DOLBY B LINEAR/WTD,CrO2)
	Less than 0.8 / 0.2 mV
	(DOLBY B LINEAR/WTD,NORMAL)
	Less than 0.6 / 0.06 mV
	(DOLBY C LINEAR/WTD,CrO2)
	Less than 0.6 / 0.08 mV
	(DOLBY C LINEAR/WTD,NORMAL)
Noise level(REC/PB) :	Less than 1.8 / 1.2 / 1.2 mV
	(DOLBY OFF LINEAR, NORMAL/CrO2/MT)
	Less than 0.8 / 0.8 / 0.8 mV
	(DOLBY B LINEAR, NORMAL/CrO2/MT)
	Less than 0.6 / 0.6 / 0.6mV
	(DOLBY C LINEAR, NORMAL/CrO2/MT)
Erasing ratio :	More than 60dB(at 125Hz)
Test tape :	TTA– 602(NORMAL)
	TTA–615(CrO2)
	TTA-635(MT)

<CD SECTION>

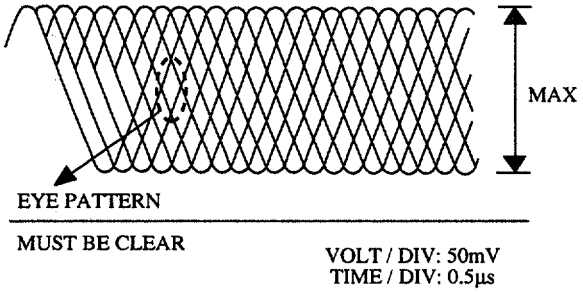
Note : Connect a probe (10:1) of the osilloscope or the frequency counter to a test point.

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

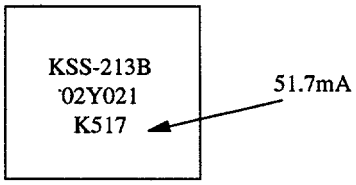


1) Connect an oscilloscope to the test points TP1 (RF) and TP5 (VC).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR601 so that the RF signal of the test point TP1 (RF) is MAX and CLEARREST.

RF signal waveform

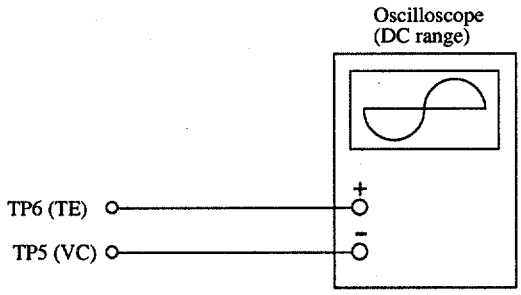


Note : The current of the laser signal can be checked with the voltages on both sides of R628 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

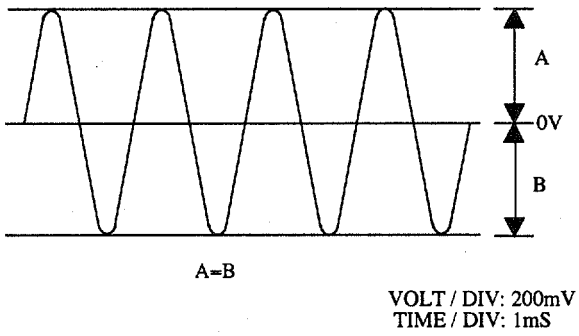


$$\text{Laser current Iop} = \frac{\text{Voltage across R628}}{10\Omega}$$

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) Cancel the CD test mode.



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 gain adjustment is not satisfied, the symptoms below appear.

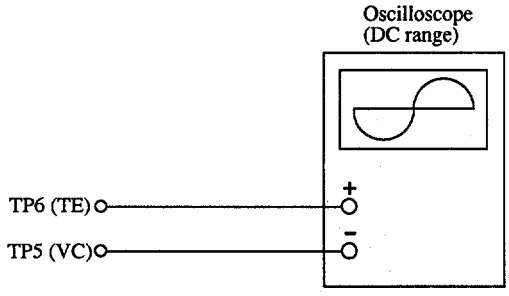
Symptoms \ Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (⏮ ⏭ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ▶PLAY or automatic selection (⏮ ⏭ buttons pressed.)	–	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.

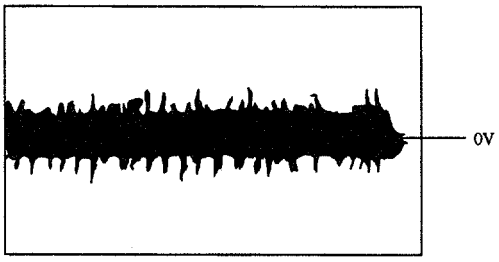
– Simple adjustment –

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 :



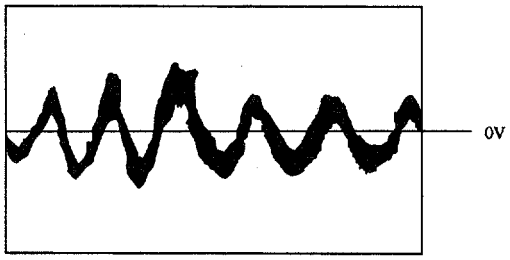
1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2–axis device.)
2) Insert test disc TCD–782 (YEDS–18) and play back the second composition.
3) Connect an oscilloscope to TP6 (TE) of the 3CD MAIN C.B.
4) Adjust SFR603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



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

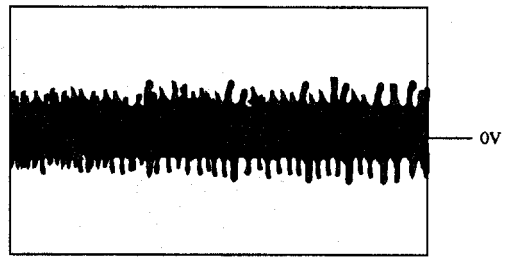
• Incorrect example

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



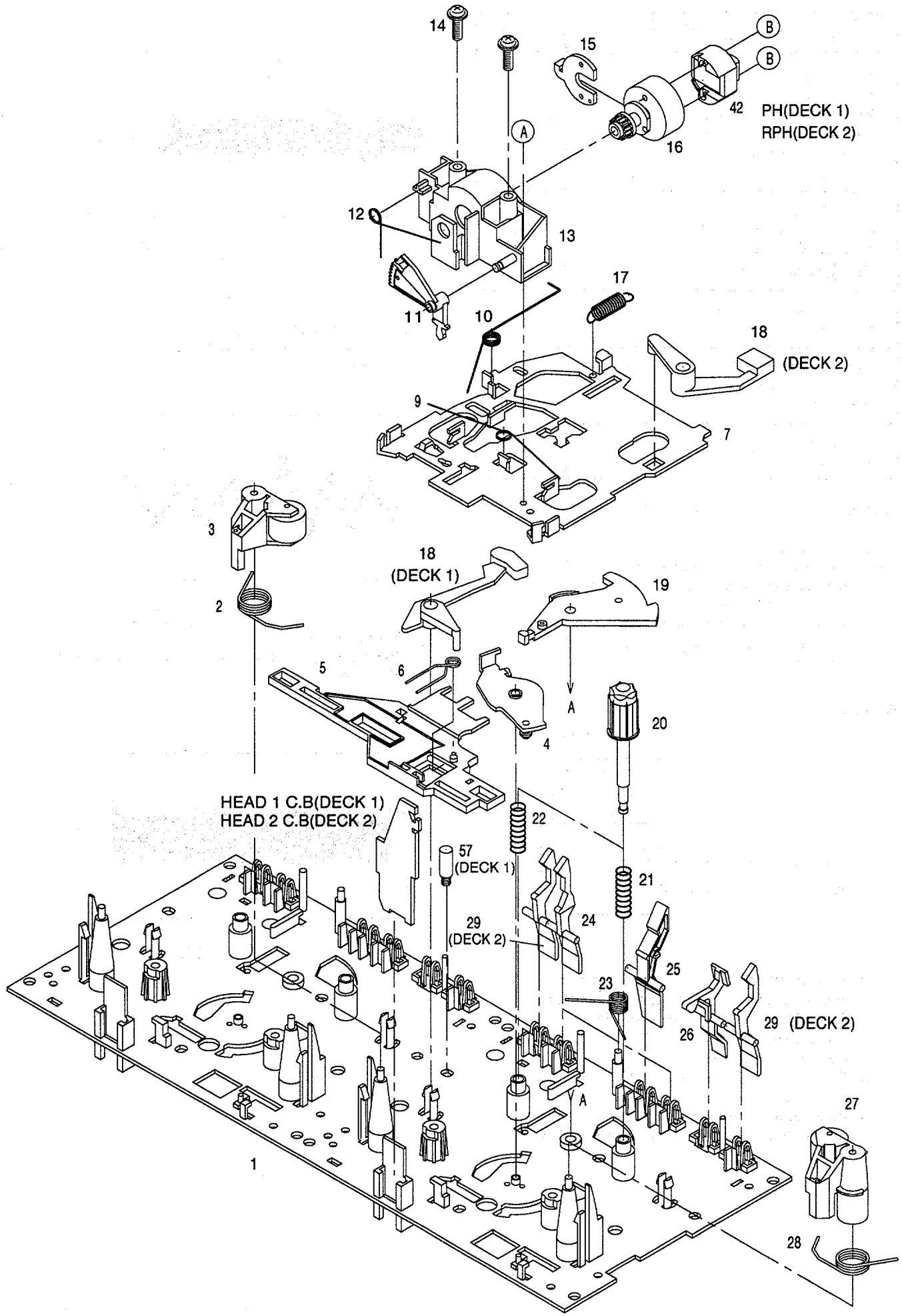
VOLT / DIV: 50mV
TIME / DIV: 1mS

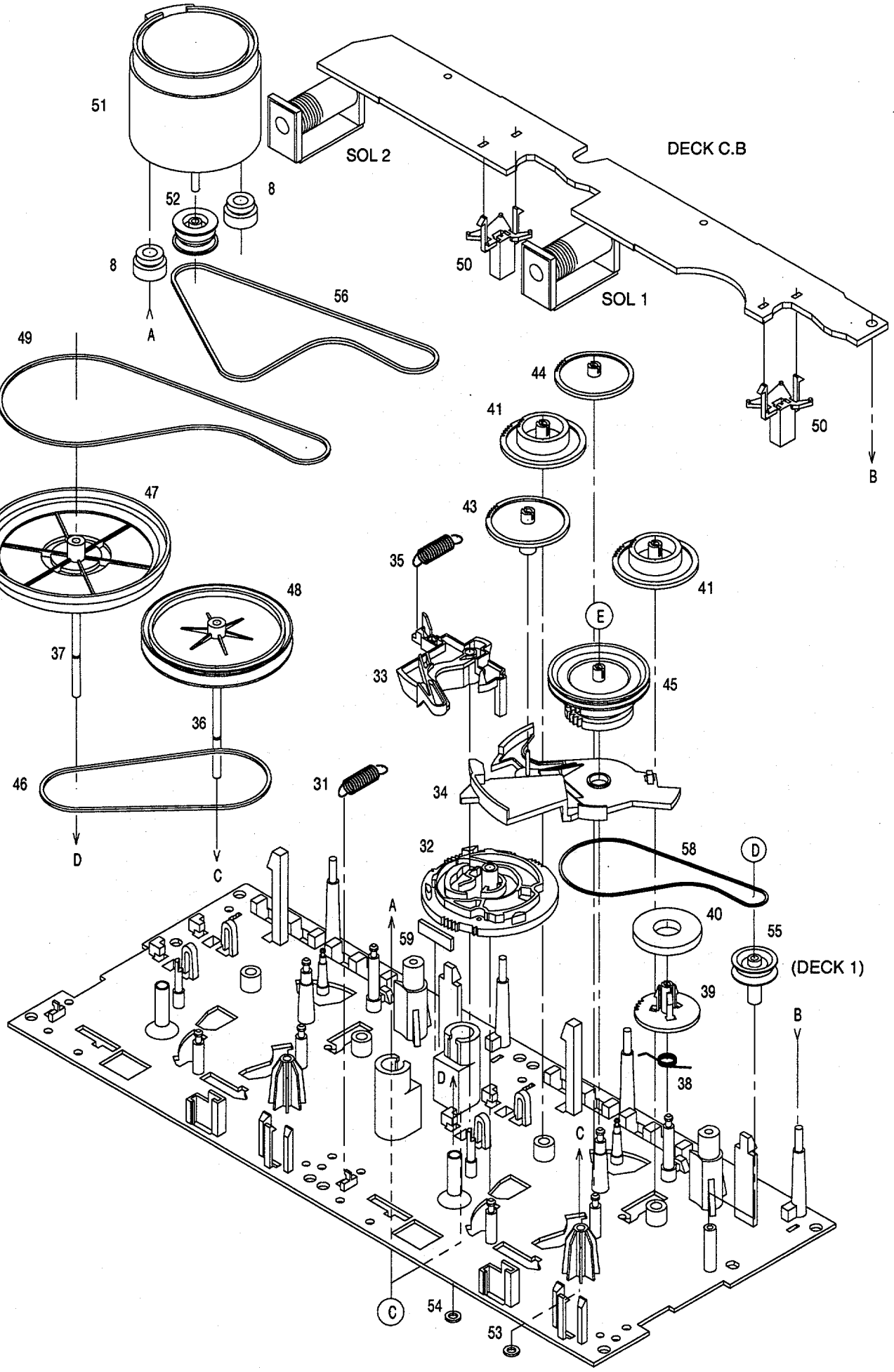
High tracking gain
(The frequency of the fundamental wave is higher than in low gain)



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

TAPE MECHANISM EXPLODED VIEW 1 / 1



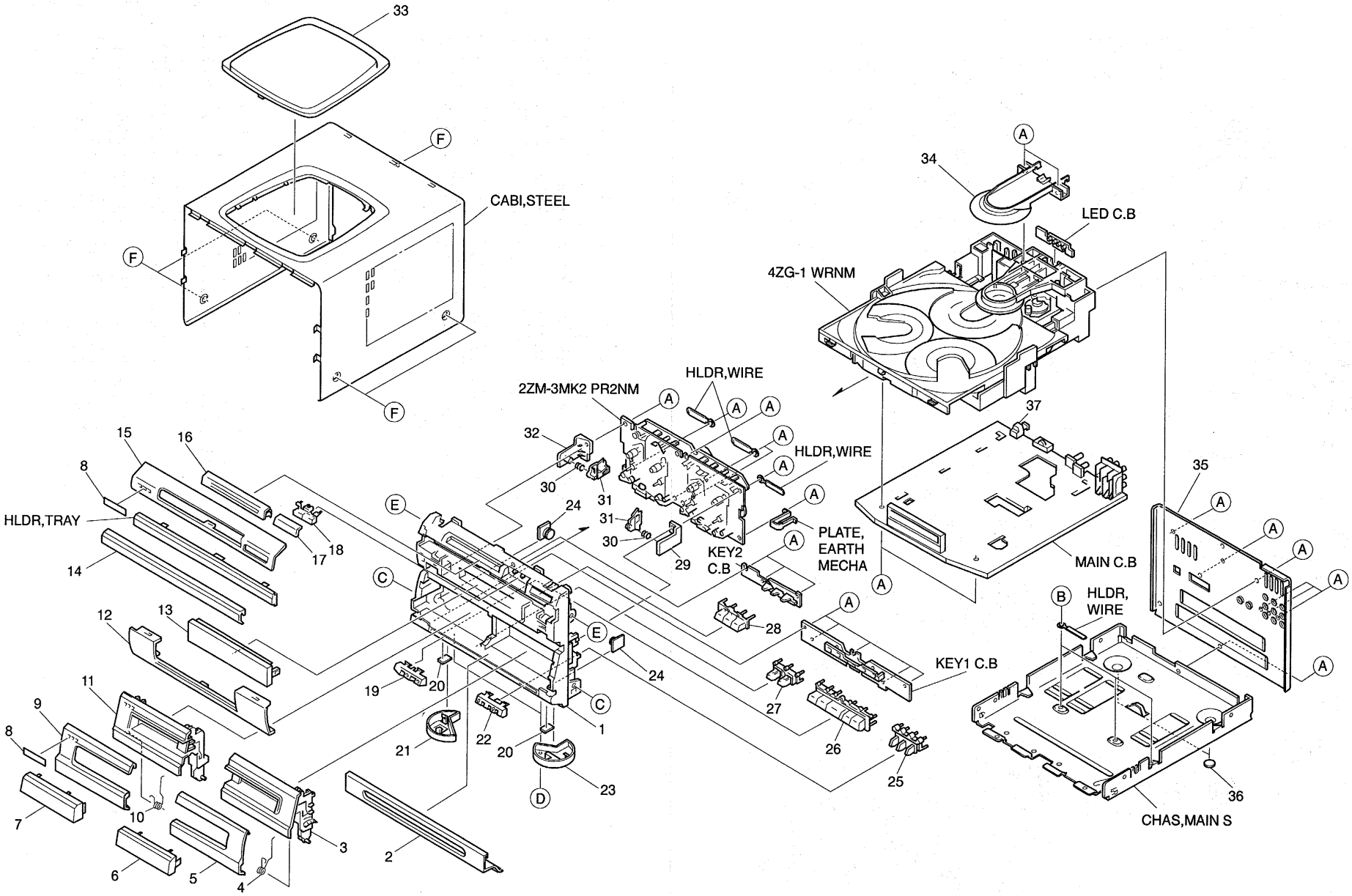

51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
49
44
41
50
B
47
43
35
41
48
E
37
33
45
36
46
31
34
D
C
32
58
D
A
40
55
(DECK 1)
59
39
B
38
D
C
C
54
53

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
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
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
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

MECHANICAL EXPLODED VIEW 1 / 1

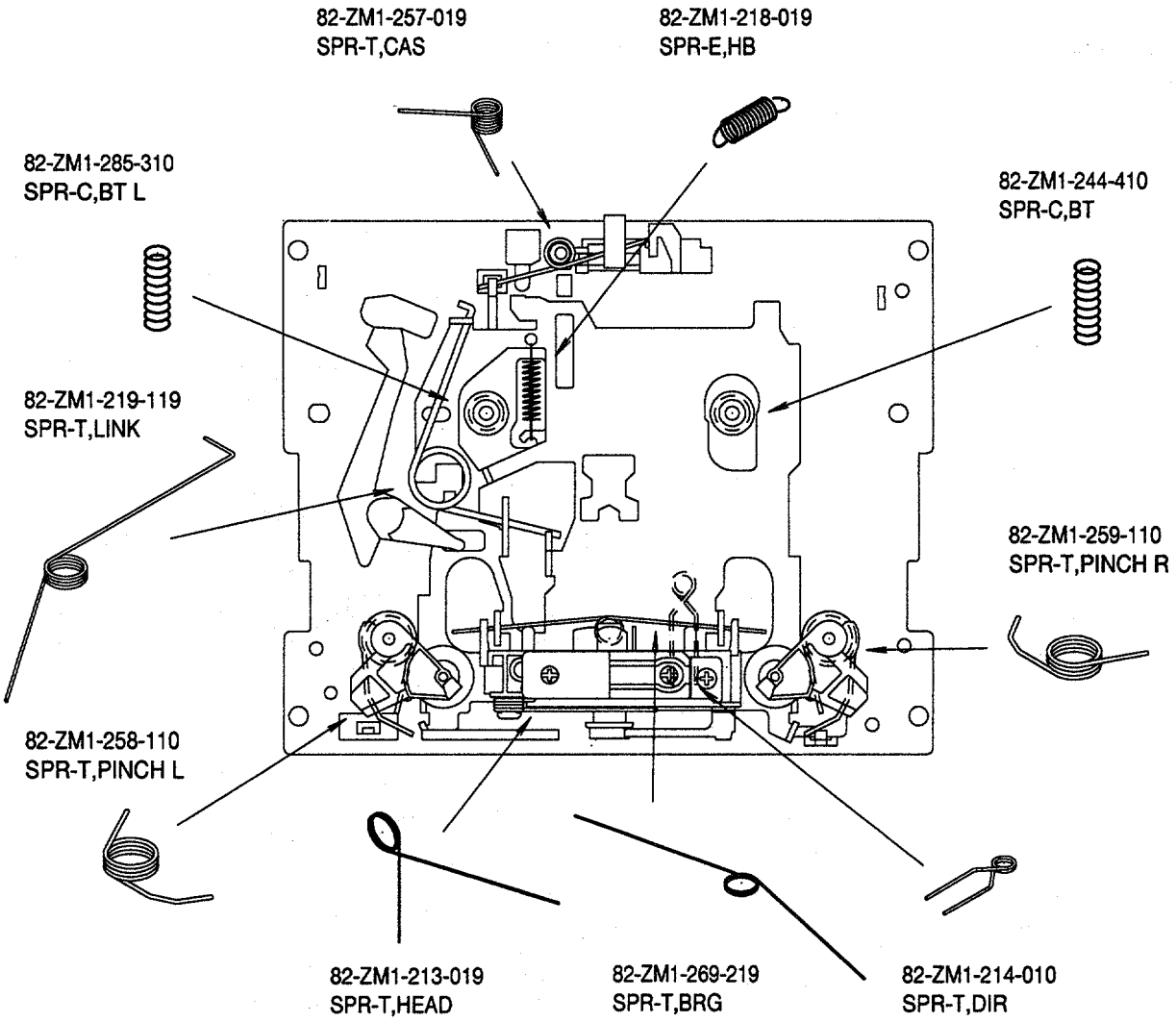


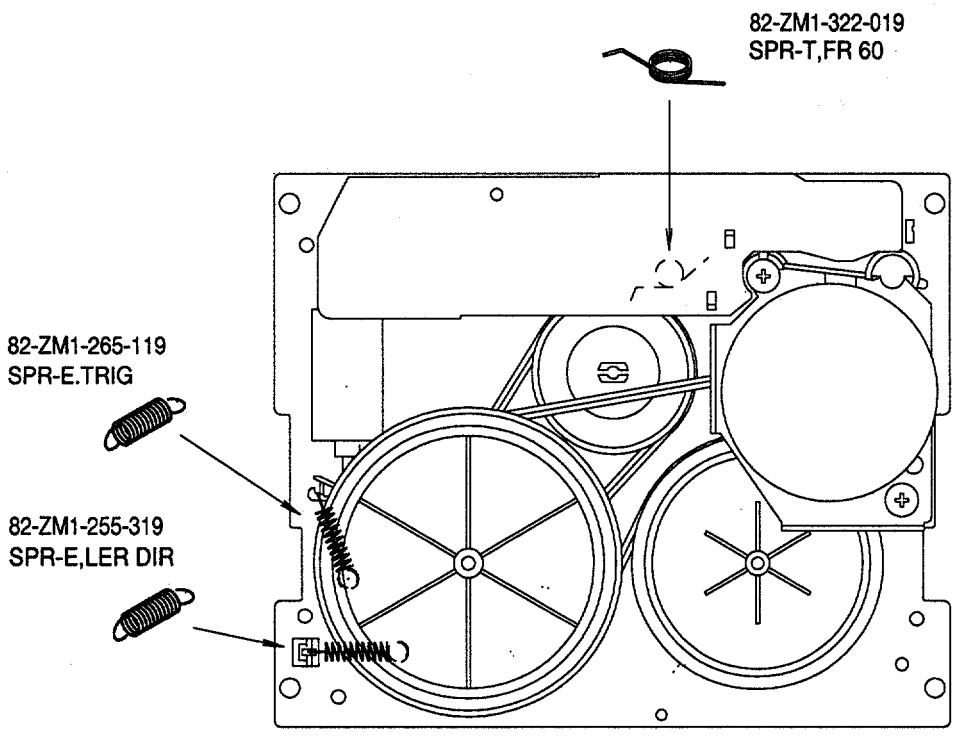
MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NV1-001-010		CABI,FR
2	87-NV1-045-010		PANEL,CONTROL
3	87-NV1-004-010		BOX,CASS 2
4	83-NV4-202-110		SPR-T,EJECT 2
5	87-NV1-044-010		PANEL,CASS 2
6	87-NV1-009-010		WINDOW,CASS 2
7	87-NV1-008-010		WINDOW,CASS 1
8	87-B00-002-010		BADGE,AIWA 30 ABS SIL
9	87-NV1-043-010		PANEL,CASS 1
10	83-NV4-201-110		SPR-T,EJECT 1
11	87-NV1-003-010		BOX,CASS 1
12	87-NV1-042-010		PANEL,DISPLAY
13	87-NV1-006-010		WINDOW,DISPLAY
14	87-NV1-041-010		PANEL,TRAY
15	87-NV1-040-010		PANEL,CD
16	87-NV1-007-010		WINDOW,CD
17	87-NV1-046-010		PANEL,OPEN
18	87-NV1-011-010		KEY,OPEN
19	87-NV1-047-010		PANEL,KEY REC
20	80-VT1-202-010		FELT,12.5-15.5-2
21	87-NT1-015-010		RING,FOOT L
22	87-NV1-048-010		PANEL,KEY DOLBY
23	87-NT1-035-010		RING,FOOT R
24	87-063-165-010		OIL-DMPR 150
25	87-NV1-014-010		KEY,DOLBY
26	87-NV1-023-010		KEY,ASSY OPE
27	87-NV1-013-010		KEY,REC
28	87-NV1-012-010		KEY,DISC
29	87-NF4-217-010		HLDR,LOCK 2
30	82-NF5-228-010		SPR-C,LOCK
31	82-NF5-229-010		PLATE,LOCK
32	87-NF4-216-010		HLDR,LOCK 1
33	86-NF6-007-010		WINDOW,TOP
34	84-ZG1-011-010		REFLECTOR,CD
35	87-NV1-002-010		PANEL,REAR YSNM
36	82-NV1-213-010		FELT,DIA12-2
37	84-ZG1-244-210		CABI,OPTICAL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-571-092-410		TAPPING SCREW, VIT+3-4
C	87-591-094-410		TAPPING SCREW, QIT+3-6
D	87-067-777-010		BVTT+3-6 BLK W/CONVEX
E	87-721-097-410		QT2+3-12 GLD
F	87-067-641-010		UTT2+3-8(W/O SLOT)BL

SPRING APPLICATION POSITION

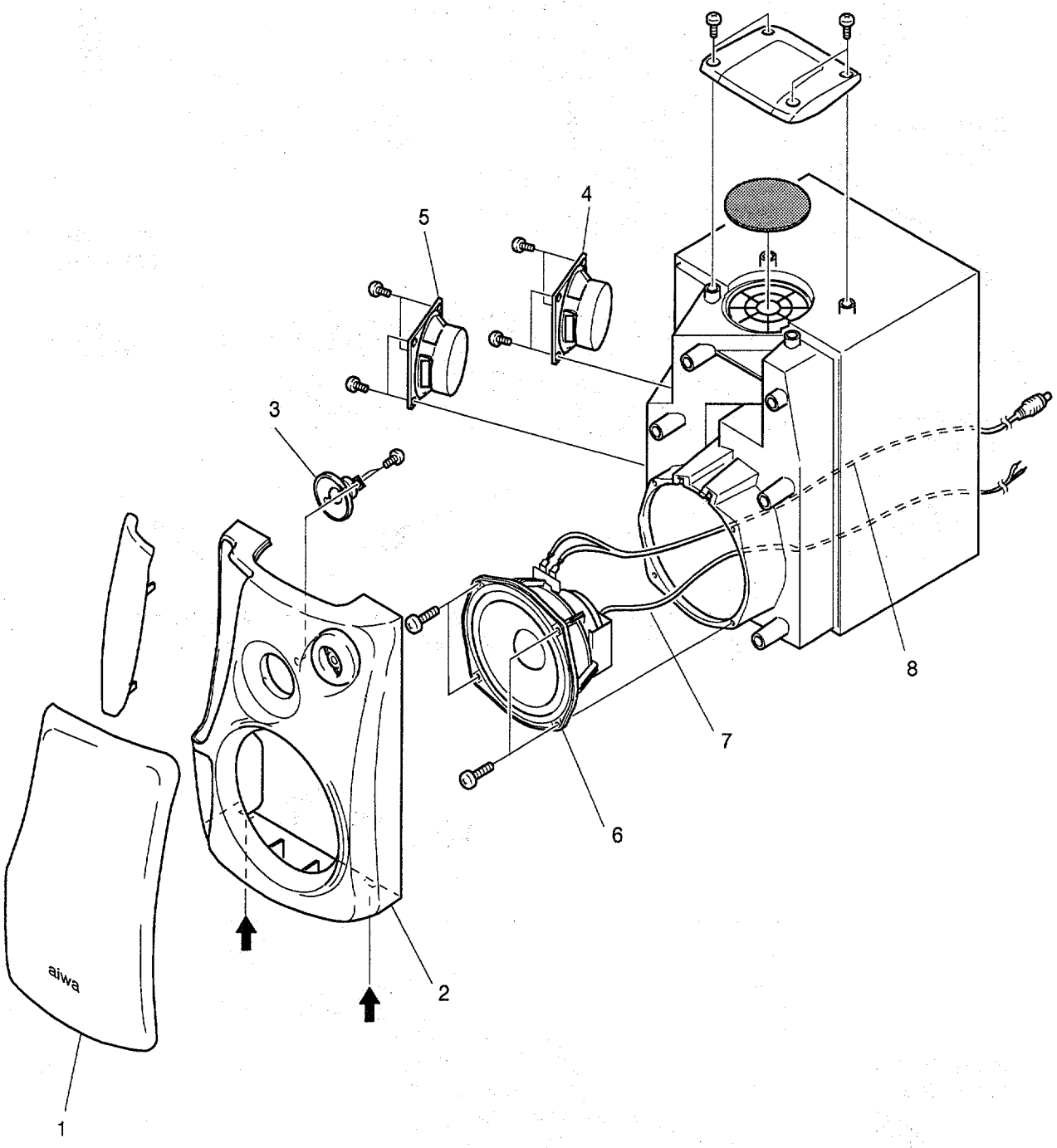




MODEL NO. SX-ANH100

SPEAKER EXPLODED VIEW 1 / 1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.
Remove the screws of each speaker unit and then remove the speaker units.



SPEAKER PARTS LIST 1 / 1 (SX-ANH100)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS1-007-010		GRILLE,FRAME ASSY R
1	87-NS1-009-010		GRILLE,FRAME ASSY L
2	87-NS1-001-010		PANEL,FR ST R
2	87-NS1-002-010		PANEL,FR ST L
3	86-NS4-608-010		SPKR,T 50
4	86-NS4-606-010		SPKR,F 80
5	86-NS4-604-010		SPKR,M 80
6	86-NS1-602-010		SPKR,W140
7	85-NS6-611-019		SPEAKER CORD Y/B
8	83-NS5-613-019		SPEAKER CORD ASSY

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NT1-906-010		IB,E(EGFSI)E
2	85-NF5-631-010		RC-T501
3	87-006-225-010		AM LOOP ANT NC2
4	87-043-106-010		WIRE, FM ANT (Z)

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	
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