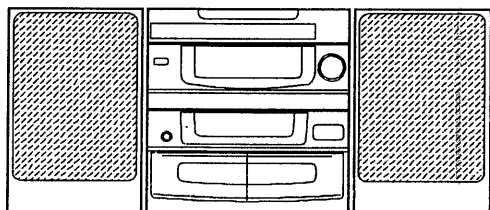


aiwa



Z-2300 Z-1900



STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-3 PR6N
- BASIC CD MECHANISM: 4ZG-1SDFR

- TYPE. LH,HE

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1S.
(S/M Code No. 09-955-104-70T)

SYSTEM	CENTER UNIT	REMOTE CONTROLLER	SPEAKER	TURNTABLE (OPTIONAL)
Z-2300	CX-Z2300	RC-T506	SX-Z2300	※ PX-E850
Z-1900	CX-Z1900	RC-T506	SX-Z1900	※ PX-E850

- ※ As to the service information of PX-E850
see the individual Service Manual of PX-E850. (S/M Code No. 09-947-070-90I)

MANUAL SERVICE

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SPECIFICATIONS

Main unit

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<Amplifier section> CX-Z2300

Power output	Front (without connecting to the SURROUND SPEAKERS) Rated: 50 W + 50 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 60 W + 60 W (6 ohms, T.H.D. 10 %, 1 kHz) Rear (Surround) Rated: 8 W + 8 W (16 ohms, T.H.D. 1 %, 1 kHz) Reference: 10 W + 10 W (16 ohms, T.H.D. 10 %, 1 kHz) Center Rated: 16 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 20 W (8 ohms, T.H.D. 10 %, 1 kHz)
--------------	--

Total harmonic distortion

CX-Z2300

0.1 % (30 W, 1 kHz, 6 ohms)

Inputs

VIDEO/AUX: 300 mV (47 kohms with volume)

PHONO: 250 mV (47 kohms)

MIC 1, MIC 2: 2.2 mV (20 kohms)

Outputs

LINE OUT: 200 mV (47 kohms)

SUPER WOOFER: 1.9 V

SPEAKERS: accepts speakers of 6 ohms or more

CENTER SPEAKER: accepts speakers of 8 ohms or more

SURROUND SPEAKERS: accepts speakers of 16 ohms or more

PHONES (ϕ 6.3 mm stereo jack): accepts headphones of 32 ohms or more

CD DIGITAL OUT (OPTICAL)

<Amplifier section> CX-Z1900

Power output	Reference: 150 W + 150 W (6 ohms, T.H.D. 10 %, 1 kHz, without connecting to the SURROUND SPEAKERS) Rated: 105 W + 105 W (6 ohms, T.H.D. 1 %, 1 kHz, without connecting to the SURROUND SPEAKERS)
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Total harmonic distortion

0.12 % (75 W, 1 kHz, 6 ohms)

Inputs

VIDEO/AUX: 150 mV (47 kohms with volume)

PHONO: 250 mV (47 kohms)

MIC 1, MIC 2: 2.2 mV (20 kohms)

Outputs

LINE OUT: 200 mV (47 kohms)

SUPER WOOFER: 3 V

SPEAKERS: accepts speakers of 6 ohms or more

SURROUND SPEAKERS: accepts speakers of 16 ohms or more

PHONES (ϕ 6.3 mm stereo jack): accepts headphones of 32 ohms or more

CD DIGITAL OUT (OPTICAL)

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO ₂ tape peak level above 400 Hz)
Recording system	AC bias
Heads	DECK 1: Playback head $\times$ 1 DECK 2: Recording/playback/erase head $\times$ 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

SPEAKER SYSTEM SX-Z2300

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 220 mm (8 ³ / ₄ in.) cone type Tweeter: 60 mm (2 ³ / ₈ in.) cone type Super tweeter: 30 mm (1 ³ / ₁₆ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W $\times$ H $\times$ D)	260 $\times$ 434 $\times$ 275 mm (10 ¹ / ₄ $\times$ 17 ¹ / ₈ $\times$ 10 ⁷ / ₈ in.)
Weight	4.5 kg (9 lbs 15 oz.)

SPEAKER SYSTEM SX-Z1900

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 220 mm (8 ³ / ₄ in.) cone type Tweeter: 80 mm (3 ¹ / ₄ in.) cone type Super tweeter: 50 mm (2 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W $\times$ H $\times$ D)	260 $\times$ 434 $\times$ 280 mm (10 ¹ / ₄ $\times$ 17 ¹ / ₈ $\times$ 11 ¹ / ₈ in.)
Weight	4.8 kg (10 lbs 9 oz.)

GENERAL

Power requirements	120/220-230/240 V AC, switchable 50/60 Hz
Power consumption	135 W.
Dimensions of main unit (W $\times$ H $\times$ D)	360 $\times$ 385 $\times$ 339.5 mm (14 ¹ / ₄ $\times$ 15 ¹ / ₄ $\times$ 13 ³ / ₈ in.)
Weight of main unit	CX-Z2300: 10.5 kg (23 lbs 2 oz.) CX-Z1900: 10.4 kg (22 lbs 15 oz.)

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ELECTRICAL MAIN PARTS LIST

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
IC							
	87-020-454-010	IC, DN6851		87-017-978-089	DIODE, 1N4003		
	87-017-885-010	IC, NJM2177AF<2300>		87-020-027-089	C-DIODE, 1SS184		
	85-MA2-601-010	IC, LC866432V-5780<1900>		87-020-125-089	C-DIODE, 1SS181		
	85-MA1-601-010	IC, LC866440V-5790<2300>		87-020-465-089	DIODE, 1SS133		
	82-NE6-617-019	IC, GP1U581X		87-017-174-089	ZENER, HZS11A3L		
	87-002-872-040	IC, MC14053BF<2300>		87-017-146-089	ZENER, HZS30-2		
	87-017-374-019	IC, TC4094BP		87-002-225-019	DIODE, DBF40C-K10		
	87-017-888-089	IC, NJM4558MD		87-001-290-089	ZENER, HZS6B1L		
	87-001-902-019	IC, STK4221-MK2<1900>		87-001-559-089	DIODE, 1SS131(T-72)		
	87-001-903-019	IC, STK4172-2<2300>		87-070-178-099	DIODE, 1N5402-BD54		
	87-070-232-019	IC, BA3834S		87-001-408-089	DIODE, GP15B		
	87-070-121-010	IC, HA12185NT		87-017-086-089	ZENER, HZS5A2		
	87-017-375-089	IC, TC4094BF<2300>		87-020-584-089	C-ZENER, 02CZ5.6Y		
	87-070-205-019	IC, TC9299P<2300>		87-027-332-089	ZENER, HZ6B1L<1900>		
	87-070-184-040	IC, M65846FP-600D		87-020-339-089	C-DIODE, 1SS226		
	87-001-874-019	IC, HA12134A		87-017-148-089	ZENER, HZS6A1L		
	87-017-673-019	IC, BA3837		MAIN C.B			
	87-070-163-019	IC, STK405-030<2300>		C101	87-010-453-099	CAP ELECT 4700-25V SME	
	87-017-022-089	IC, NJM2068M-D(TI)		C102	87-010-453-099	CAP ELECT 4700-25V SME	
	87-017-449-010	IC, XR-1071CP		C104	87-010-235-089	CAP, E 470-16 SME	
	87-027-666-019	IC, TC4052BP		C105	87-010-381-089	CAP, E 330-16 SME	
	87-002-247-019	IC, BU4052B		C106	87-010-430-089	CAP ELECT(TAPG) 100-63V	
	87-070-127-019	IC, LC72131		C107	87-010-405-089	CAP, E 10-50 SME	
	87-017-714-019	IC, LA1836		C108	87-010-406-089	CAP, E 22-50 SME	
	87-001-530-019	IC, LA3607		C109	87-010-263-089	CAP, E 100-10 SME	
	87-001-528-019	IC, LC7522		C112	87-010-382-089	CAP, E 22-25 SME	
	87-017-675-080	IC, M65840FP<2300HE>		C113	87-010-403-089	CAP, E 3.3-50 SME	
TRANSISTOR				C115	87-016-247-089	C-CAP, 0.1-50 F	
	87-026-463-080	TR, 2SA933S		C116	87-012-140-089	C-CAP, S 470P-50 CH	
	89-324-121-089	C-TR, 2SC2412K		C117	87-012-368-089	C-CAP, S 0.1-50F	
	89-213-702-019	TR, 2SB1370E		C118	87-012-368-089	C-CAP, S 0.1-50F	
	89-109-352-089	TR, 2SA935Q		C119	87-012-368-089	C-CAP, S 0.1-50F	
	87-026-226-089	C-TR, DTA143EK		C126	87-016-055-099	CAP, E 3300-42 HI-R<2300>	
	87-026-610-089	TR, KTC3198GR		C126	87-016-520-099	CAP, E 3300-65<1900>	
	89-327-125-089	C-TR, 2SC2712GR		C127	87-016-055-099	CAP, E 3300-42 HI-R<2300>	
	89-332-665-089	TR, 2SC3266GR		C127	87-016-520-099	CAP, E 3300-65<1900>	
	89-337-221-389	C-TR, 2SC3722K(R/S/E)		C128	87-012-368-089	C-CAP, S 0.1-50F	
	89-111-625-089	C-TR, 2SA1162GR		C129	87-012-368-089	C-CAP, S 0.1-50F	
	87-026-210-089	C-TR, DTC144EK T147		C130	87-012-368-089	C-CAP, S 0.1-50F	
	87-026-211-089	C-TR, DTA144EK T147		C131	87-012-368-089	C-CAP, S 0.1-50F	
	87-026-235-089	C-TR, DTC114EK		C152	87-010-260-089	CAP, E 47-25 SME	
	89-109-521-089	TR, 2SA952K		C213	87-010-401-089	CAP, E 1-50 SME	
	89-333-266-089	C-TR, 2SC3326B		C214	87-010-401-089	CAP, E 1-50 SME	
	87-026-232-089	C-TR, DTA144WK		C215	87-010-184-089	C-CAP, S 3300P-50 B	
	87-026-658-010	FET 2SJ176		C216	87-010-184-089	C-CAP, S 3300P-50 B	
	89-510-940-010	FET 2SK1094		C217	87-010-404-089	CAP, E 4.7-50 SME	
	89-322-405-089	TR, 2SC2240GR		C218	87-010-404-089	CAP, E 4.7-50 SME	
	87-026-213-089	C-TR, DTC114YK<2300>		C219	87-010-213-089	C-CAP, S 0.015-50 B	
	89-503-655-689	FET, 2SK365GR, BL		C220	87-010-213-089	C-CAP, S 0.015-50 B	
	89-333-317-089	TR, 2SC3331T		C221	87-010-400-089	CAP, E 0.47-50 SME	
	89-112-965-089	TR, 2SA1296GR		C222	87-010-400-089	CAP, E 0.47-50 SME	
	89-406-555-089	TR, 2SD655E		C223	87-010-260-089	CAP, E 47-25 SME	
	89-113-187-889	TR, 2SA1318TU		C224	87-010-260-089	CAP, E 47-25 SME	
	87-026-238-089	C-TR, DTC144WK<2300>		C225	87-010-260-089	CAP, E 47-25 SME	
	89-316-236-089	TR, 2SC 1623 L6		C226	87-010-260-089	CAP, E 47-25 SME	
	87-026-214-089	TR, DTA114YS		C227	87-018-209-089	CAP, TC-U 0.1-50 F	
	89-327-143-089	C-TR, 2SC2714 (0)		C228	87-018-209-089	CAP, TC-U 0.1-50 F	
	89-505-434-589	C-FET, 2SK543 (4/5)		C231	87-010-196-089	C-CAP, S 0.1-25 F	
DIODE				C243	87-010-154-089	C-CAP, S 10P-50 CH	
	87-020-691-089	DIODE, 1SS132 T-72		C244	87-015-879-089	C-CAP, 10P CH	
	87-002-597-069	DIODE, DBF, 60C-K13		C245	87-018-208-089	CAP, TC-U 0.047-50 F	
	87-001-914-089	ZENER, UTZJ 6.2B		C250	87-010-197-089	C-CAP, S 0.01-25 B	
	87-070-136-089	ZENER, MTZJ5.1B		C251	87-010-766-089	CAP, E 330-63	
	87-020-331-089	C-DIODE, DAN202K		C297	87-010-404-089	CAP, E 4.7-50 SME	
				C298	87-010-404-089	CAP, E 4.7-50 SME	
				C303	87-012-157-089	C-CAP, S 330P-50 CH	
				C304	87-012-157-089	C-CAP, S 330P-50 CH	

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C305	87-012-155-089	C-CAP,S	180P-50 CH	C601	87-010-401-089	CAP,E	1-50 SME
C306	87-012-155-089	C-CAP,S	180P-50 CH	C602	87-010-405-089	CAP,E	10-50 SME
C307	87-010-196-089	C-CAP,S	0.1-25 F	C603	87-010-101-089	CAP,E	220-16 SME
C308	87-010-196-089	C-CAP,S	0.1-25 F	C605	87-010-178-089	C-CAP,S	1000P-50 B
C313	87-010-181-089	C-CAP,S	1800P-50 B	C606	87-010-178-089	C-CAP,S	1000P-50 B
C314	87-010-181-089	C-CAP,S	1800P-50 B	C607	87-010-404-089	CAP,E	4.7-50 SME
C315	87-010-179-089	C-CAP,S	1200P-50 B	C608	87-010-404-089	CAP,E	4.7-50 SME
C316	87-010-179-089	C-CAP,S	1200P-50 B	C609	87-010-404-089	CAP,E	4.7-50 SME
C317	87-012-142-089	C-CAP,S	0.33-16 F	C610	87-010-404-089	CAP,E	4.7-50 SME
C318	87-012-142-089	C-CAP,S	0.33-16 F	C611	87-010-177-089	C-CAP,S	820P-50 SL
C319	87-012-141-089	C-CAP,S	0.22-16 F	C612	87-010-177-089	C-CAP,S	820P-50 SL
C320	87-012-141-089	C-CAP,S	0.22-16 F	C613	87-010-404-089	CAP,E	4.7-50 SME
C321	87-010-196-089	C-CAP,S	0.1-25 F	C614	87-010-404-089	CAP,E	4.7-50 SME
C322	87-010-196-089	C-CAP,S	0.1-25 F	C615	87-010-400-089	CAP,E	0.47-50 SME
C324	87-010-260-089	CAP,E	47-25 SME	C616	87-010-400-089	CAP,E	0.47-50 SME
C325	87-010-370-089	CAP,E	330-6.3 SME	C617	87-010-197-089	C-CAP,S	0.01-25 B
C326	87-010-196-089	C-CAP,S	0.1-25 F	C618	87-010-197-089	C-CAP,S	0.01-25 B
C332	87-010-196-089	C-CAP,S	0.1-25 F	C619	87-010-184-089	C-CAP,S	3300P-50 B
C335	87-010-805-089	C-CAP,S	1-16F	C620	87-010-184-089	C-CAP,S	3300P-50 B
C336	87-010-805-089	C-CAP,S	1-16F	C621	87-012-155-089	C-CAP,S	180P-50 CH
C351	87-012-154-089	C-CAP,S	150P-50 CH	C622	87-012-155-089	C-CAP,S	180P-50 CH
C352	87-012-154-089	C-CAP,S	150P-50 CH	C623	87-010-405-089	CAP,E	10-50 SME
C451	87-012-156-089	C-CAP,S	220P-50 CH	C624	87-010-405-089	CAP,E	10-50 SME
C452	87-012-156-089	C-CAP,S	220P-50 CH	C630	87-010-405-089	CAP,E	10-50 SME
C453	87-010-178-089	C-CAP,S	1000P-50 B	C631	87-010-401-089	CAP,E	1-50 SME
C456	87-010-260-089	CAP,E	47-25 SME	C641	87-010-196-089	C-CAP,S	0.1-25 F
C457	87-010-197-089	C-CAP,S	0.01-25 B	C642	87-010-196-089	C-CAP,S	0.1-25 F
C458	87-010-183-089	C-CAP,S	2700P-50 B	C701	87-010-381-089	CAP,E	330-16 SME
C459	87-010-183-089	C-CAP,S	2700P-50 B	C702	87-010-404-089	CAP,E	4.7-50 SME
C460	87-010-183-089	C-CAP,S	2700P-50 B	C703	87-010-197-089	C-CAP,S	0.01-25 B
C470	87-010-196-089	C-CAP,S	0.1-25 F	C704	87-010-197-089	C-CAP,S	0.01-25 B
C501	87-010-177-089	C-CAP,S	820P-50 SL	C711	87-010-263-089	CAP,E	100-10 SME
C502	87-010-177-089	C-CAP,S	820P-50 SL	C712	87-010-196-089	C-CAP,S	0.1-25 F
C503	87-012-155-089	C-CAP,S	180P-50 CH	C722	87-010-311-089	C-CAP,S	12P-50 CH
C504	87-012-155-089	C-CAP,S	180P-50 CH	C723	87-010-178-089	C-CAP,S	1000P-50 B
C515	87-010-545-089	CAP,E	0.22-50 SME	C725	87-010-178-089	C-CAP,S	1000P-50 B
C516	87-010-545-089	CAP,E	0.22-50 SME	C727	87-010-196-089	C-CAP,S	0.1-25 F
C519	87-010-196-089	C-CAP,S	0.1-25 F	C728	87-010-248-089	CAP,E	220-10 SME
C521	87-010-197-089	C-CAP,S	0.01-25 B	C770	87-010-405-089	CAP,E	10-50 SME
C522	87-010-318-089	C-CAP,S	47P-50 CH	C771	87-010-405-089	CAP,E	10-50 SME
C523	87-010-197-089	C-CAP,S	0.01-25 B	C772	87-010-194-089	C-CAP,S	0.047-25 F
C524	87-010-402-089	CAP,E	2.2-50 SME	C773	87-010-196-089	C-CAP,S	0.1-25 F
C530	87-010-194-089	C-CAP,S	0.047-25 F	C774	87-010-263-089	CAP,E	100-10 SME
C531	87-010-545-089	CAP,E	0.22-50 SME	C775	87-010-405-089	CAP,E	10-50 SME
C532	87-010-382-089	CAP,E	22-25 SME	C776	87-010-197-089	C-CAP,S	0.01-25 B
C533	87-010-404-089	CAP,E	4.7-50 SME	C777	87-010-400-089	CAP,E	0.47-50 SME
C534	87-010-404-089	CAP,E	4.7-50 SME	C778	87-010-401-089	CAP,E	1-50 SME
C535	87-010-404-089	CAP,E	4.7-50 SME	C779	87-010-401-089	CAP,E	1-50 SME
C536	87-010-404-089	CAP,E	4.7-50 SME	C780	87-010-197-089	C-CAP,S	0.01-25 B
C537	87-018-209-089	CAP,TC-U	0.1-50 F	C781	87-010-405-089	CAP,E	10-50 SME
C538	87-010-384-089	CAP,E	100-25 SME	C782	87-010-405-089	CAP,E	10-50 SME
C539	87-012-142-089	C-CAP,S	0.33-16 F<2300HE>	C787	87-010-184-089	C-CAP,S	3300P-50 B
C540	87-010-196-089	C-CAP,S	0.1-25 F	C788	87-010-184-089	C-CAP,S	3300P-50 B
C541	87-010-196-089	C-CAP,S	0.1-25 F	C789	87-010-179-089	C-CAP,S	1200P-50 B
C542	87-010-178-089	C-CAP,S	1000P-50 B	C790	87-010-179-089	C-CAP,S	1200P-50 B
C543	87-010-546-089	CAP,E	0.33-50 SME	C791	87-010-401-089	CAP,E	1-50 SME
C544	87-010-546-089	CAP,E	0.33-50 SME	C792	87-010-180-089	C-CAP,S	1500P-50 B
C547	87-010-213-089	C-CAP,S	0.015-50 B<HE>	C793	87-010-189-089	C-CAP,S	8200P-50 B
C547	87-010-198-089	C-CAP,S	0.022-25 B<LH>	C794	87-010-408-089	CAP,E	47-50 SME
C548	87-010-213-089	C-CAP,S	0.015-50 B<HE>	C795	87-010-194-089	C-CAP,S	0.047-25 F
C548	87-010-198-089	C-CAP,S	0.022-25 B<LH>	C796	87-010-403-089	CAP,E	3.3-50 SME
C549	87-018-209-089	CAP,TC-U	0.1-50 F	C797	87-010-405-089	CAP,E	10-50 SME
C550	87-010-183-089	C-CAP,S	2700P-50 B	C798	87-010-196-089	C-CAP,S	0.1-25 F
C551	87-010-178-089	C-CAP,S	1000P-50 B	C814	87-010-197-089	C-CAP,S	0.01-25 B
C552	87-010-178-089	C-CAP,S	1000P-50 B	C817	87-010-197-089	C-CAP,S	0.01-25 B
C553	87-010-178-089	C-CAP,S	1000P-50 B	C818	87-010-197-089	C-CAP,S	0.01-25 B
C555	87-012-358-089	C-CAP,S	0.47-10FZ	C819	87-010-197-089	C-CAP,S	0.01-25 B
C556	87-012-358-089	C-CAP,S	0.47-10FZ	C820	87-010-260-089	CAP,E	47-25 SME
C597	87-010-404-089	CAP,E	4.7-50 SME	C821	87-010-197-089	C-CAP,S	0.01-25 B
C598	87-010-404-089	CAP,E	4.7-50 SME	C822	87-010-197-089	C-CAP,S	0.01-25 B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C823	87-010-197-089		C-CAP,S 0.01-25 B	SFR301	87-024-174-089		SFR,33K DIA6 V
C824	87-018-134-089		CAP,TC-U 0.01-16 Y	SFR302	87-024-174-089		SFR,33K DIA6 V
C825	87-015-819-089		CHIP CAP 0.01	SFR303	87-024-174-089		SFR,33K DIA6 V
C826	87-010-196-089		C-CAP,S 0.1-25 F	SFR304	87-024-174-089		SFR,33K DIA6 V
C827	87-010-196-089		C-CAP,S 0.1-25 F	SFR451	87-024-175-089		SFR,47K DIA6 V
C830	87-015-819-089		CHIP CAP 0.01	SFR452	87-024-175-089		SFR,47K DIA6 V
C831	87-010-197-089		C-CAP,S 0.01-25 B	SFR722	87-024-171-089		SFR,4.7K DIA6 V
C835	87-010-197-089		C-CAP,S 0.01-25 B	TC701	87-011-253-089		TRIMER,30P LAR
C841	88-214-810-819		CAP,CER 0.01	VR651	82-NF5-660-019		VR 50K BX2 RK14K 12A
C842	88-214-810-819		CAP,CER 0.01	W101	85-MA1-617-019		F-CABEL,7P-2.5
C901	87-010-401-089		CAP,E 1-50 SME<2300HE>	X703	84-508-618-019		VIB,CER CSB 456 F/5
C902	87-010-178-089		C-CAP,S 1000P-50 B<2300HE>	X721	87-030-163-019		VIB,XTAL 7.2MHZ (NDK)
C903	87-010-178-089		C-CAP,S 1000P-50 B<2300HE>	X901	87-030-348-089		VIB,CER 16.0MHZ CST<2300HE>
C904	87-010-184-089		C-CAP,S 3300P-50 B<2300HE>				
C905	87-010-177-089		C-CAP,S 820P-50 SL<2300HE>				
C906	87-010-178-089		C-CAP,S 1000P-50 B<2300HE>	FRONT C.B			
C907	87-010-185-089		C-CAP,S 3900P-50 B<2300HE>	C101	87-010-318-089		C-CAP,S 47P-50 CH
C909	87-010-175-089		C-CAP,S 560P-50 SL<2300HE>	C102	87-010-317-089		C-CAP,S 39P-50 CH
C910	87-010-176-089		C-CAP,S 680P-50 SL<2300HE>	C103	87-010-315-089		C-CAP,S 27P-50 CH
C911	87-010-196-089		C-CAP,S 0.1-25 F<2300HE>	C104	87-012-140-089		C-CAP,S 470P-50 CH
C918	87-010-186-089		C-CAP,S 4700P-50 B<2300HE>	C105	87-010-196-089		C-CAP,S 0.1-25 F
C920	87-010-374-089		CAP,E 47-10<2300HE>	C106	87-010-498-049		CAP,E 10-16 GAS
C921	87-010-263-089		CAP,E 100-10 SME<2300HE>	C107	87-010-555-049		CAP,E 100-10 GAS
C922	87-010-196-089		C-CAP,S 0.1-25 F<2300HE>	C108	87-010-494-049		CAP,E 1-50 GAS
C923	87-010-154-089		C-CAP,S 10P-50 CH<2300HE>	C109	87-010-494-049		CAP,E 1-50 GAS
C924	87-010-154-089		C-CAP,S 10P-50 CH<2300HE>	C110	87-010-248-049		CAP,E 220-10 SME
C925	87-018-209-089		CAP,TC-U 0.1-50 F<2300HE>	C111	87-010-805-089		C-CAP,S 1-16F
C926	87-010-196-089		C-CAP,S 0.1-25 F<EXCEPT 2300HE>	C112	87-010-196-089		C-CAP,S 0.1-25 F
C927	87-012-368-089		C-CAP,S 0.1-50F<2300HE>	C113	87-010-196-089		C-CAP,S 0.1-25 F
C947	87-010-401-089		CAP,E 1-50 SME	C201	87-010-281-049		CAP,E 22-35 5L
C949	87-010-197-089		C-CAP,S 0.01-25 B	C202	87-010-281-049		CAP,E 22-35 5L
C950	87-010-322-089		C-CAP,S 100P-50 CH	C203	87-010-560-049		CAP,E 10-50 GAS
C951	87-010-401-089		CAP,E 1-50 SME	C204	87-010-197-089		C-CAP,S 0.01-25 B
C952	87-010-311-089		C-CAP,S 12P-50 CH	C205	87-018-209-089		CAP,TC-U 0.1-50 F
C983	87-010-544-089		CAP,E 0.1-50	C206	87-018-209-089		CAP,TC-U 0.1-50 F
C987	87-015-819-089		CHIP CAP 0.01	C301	87-010-196-089		C-CAP,S 0.1-25 F
C988	87-016-247-089		C-CAP,0.1-50 F	C302	87-010-196-089		C-CAP,S 0.1-25 F
C990	87-010-197-089		C-CAP,S 0.01-25 B	C303	87-010-196-089		C-CAP,S 0.1-25 F
C995	87-010-197-089		C-CAP,S 0.01-25 B	C304	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-261-019		FLTR,SFE10.7MA5-A	C305	87-010-196-089		C-CAP,S 0.1-25 F
CF802	87-008-261-019		FLTR,SFE10.7MA5-A	C306	87-012-140-089		C-CAP,S 470P-50 CH
FFE801	85-NF5-605-019		FE PACK 2 EX	C501	87-010-112-049		CAP,E 100-16
J250	87-099-678-019		JACK,6.3 W/S BLK<1900>	C603	87-010-196-089		C-CAP,S 0.1-25 F
J250	87-099-794-019		JACK,6.3 W/S BLK<2300>	C610	87-012-142-089		C-CAP,S 0.33-16 F
J253	87-099-801-019		JACK,PIN 1P BLK<2300>	C701	87-010-196-089		C-CAP,S 0.1-25 F<1900>
J253	87-099-802-019		JACK,PIN 3P BRW<1900>	C702	87-010-555-049		CAP,E 100-10 GAS<1900>
J254	87-033-227-019		TERMINAL,SP 4P R (Z)	C703	87-010-151-089		C-CAP,S 7P-50 CH<1900>
J652	87-099-814-019		JACK,PIN 3P WWW	C704	87-010-151-089		C-CAP,S 7P-50 CH<1900>
J653	87-099-813-019		JACK,PIN 3P RRR	C705	87-010-197-089		C-CAP,S 0.01-25 B<1900>
J801	87-033-235-019		TERMINAL,ANT (H)	C706	87-010-182-089		C-CAP,S 2200P-50 B<1900>
L403	81-598-635-019		COIL,TRAP BIAS	C707	87-010-956-089		C-CAP,S 0.068-25 B<1900>
L404	81-598-635-019		COIL,TRAP BIAS	C708	87-016-081-089		C-CAP,S 0.1-16 RK<1900>
L451	87-007-336-019		COIL,OSC 85K BIAS	C709	87-016-081-089		C-CAP,S 0.1-16 RK<1900>
L701	81-631-643-019		COIL,1 POLE MPX	C710	87-010-956-089		C-CAP,S 0.068-25 B<1900>
L702	81-631-643-019		COIL,1 POLE MPX	C711	87-010-197-089		C-CAP,S 0.01-25 B<1900>
L741	87-006-253-019		COIL,FM DET N	C712	87-010-182-089		C-CAP,S 2200P-50 B<1900>
L742	82-NF1-659-019		FLTR,CPAZ-450 2NT	C713	87-010-497-049		CAP,E 4.7-35 GAS<1900>
L770	87-003-102-089		COIL,10UH	C714	87-010-497-049		CAP,E 4.7-35 GAS<1900>
L832	87-003-098-089		COIL,2.2UH	C715	87-010-555-049		CAP,E 100-10 GAS<1900>
L981	81-MX4-620-019		AM PACK 3,S	C716	87-012-141-089		C-CAP,S 0.22-16 F<1900>
R105	87-022-600-089		RES,M/F 0.1-2W J	C717	87-010-196-089		C-CAP,S 0.1-25 F<1900>
R106	87-022-600-089		RES,M/F 0.1-2W J	C718	87-010-177-089		C-CAP,S 820P-50 SL<1900>
R203	87-022-603-089		RES,M/F 0.47-2W J<2300>	C719	87-010-426-089		C-CAP,S 0.012-25 B<1900>
R204	87-022-603-089		RES,M/F 0.47-2W J<2300>	C721	87-010-495-049		CAP,E 2.2-50 GAS<1900>
R205	87-022-603-089		RES,M/F 0.47-2W J<2300>	FL201	85-MA2-608-019		FL,BJ375 GK
R206	87-022-603-089		RES,M/F 0.47-2W J<2300>	L201	87-003-149-089		COIL,47UH
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2<2300>	L701	87-003-153-089		COIL,150UH LALO2<1900>
RY101	87-045-372-019		RELAY,DH12D2D2-0<1900>	LED201	87-017-731-080		LED,SEL1510CM2
SFR5	87-024-175-089		SFR,47K DIA6 V	LED202	87-017-731-080		LED,SEL1510CM2
SFR6	87-024-175-089		SFR,47K DIA6 V	LED203	87-017-731-080		LED,SEL1510CM2

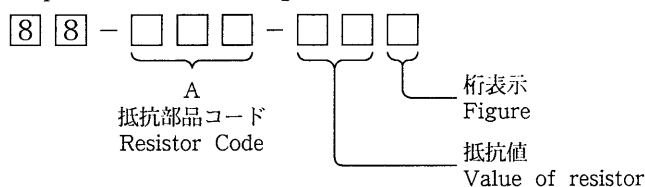
REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
LED204	87-017-731-080	LED,SEL1510CM2		S221	87-036-215-089	SW,TACT	EVQ21404M
LED205	87-017-731-080	LED,SEL1510CM2		S222	87-036-215-089	SW,TACT	EVQ21404M
LED206	87-017-731-080	LED,SEL1510CM2		S223	87-036-215-089	SW,TACT	EVQ21404M
LED207	87-017-731-080	LED,SEL1510CM2		S224	87-036-215-089	SW,TACT	EVQ21404M
LED208	87-017-731-080	LED,SEL1510CM2		S225	87-036-215-089	SW,TACT	EVQ21404M
LED209	87-017-731-080	LED,SEL1510CM2		S226	87-036-215-089	SW,TACT	EVQ21404M
LED210	87-017-731-080	LED,SEL1510CM2		S227	87-036-215-089	SW,TACT	EVQ21404M
LED211	87-017-785-080	LED,SEL 4214S		S228	87-036-215-089	SW,TACT	EVQ21404M
LED212	87-017-785-080	LED,SEL 4214S		S229	87-036-215-089	SW,TACT	EVQ21404M
LED213	87-017-785-080	LED,SEL 4214S		S230	87-036-215-089	SW,TACT	EVQ21404M
LED214	87-017-785-080	LED,SEL 4214S		S231	87-036-215-089	SW,TACT	EVQ21404M
LED215	87-017-785-080	LED,SEL 4214S		S232	87-036-215-089	SW,TACT	EVQ21404M
LED216	87-017-297-080	LED,SEL1550CM TP7		S233	87-036-215-089	SW,TACT	EVQ21404M
LED217	87-017-297-080	LED,SEL1550CM TP7		S901	87-036-215-089	SW,TACT	EVQ21404M<2300>
LED218	87-017-297-080	LED,SEL1550CM TP7		VR601	85-MA2-605-019	VR,10KB	
LED219	87-017-297-080	LED,SEL1550CM TP7		VR602	85-MA3-604-019	VR,20KA MIC	
LED220	87-017-297-080	LED,SEL1550CM TP7		VR901	85-MA1-607-019	VR,SL 50KB<2300>	
LED221	87-017-297-080	LED,SEL1550CM TP7		W102	82-NF7-670-019	CABLE,FFC 6P-1.25	
LED222	87-017-731-080	LED,SEL1510CM2		W103	85-MA2-618-019	CABLE,FFC,13P-1.25	
LED223	87-017-731-080	LED,SEL1510CM2		W104	85-MA2-602-019	CABLE,FFC 15P-1.25	
LED224	87-070-270-010	LED,SEL1510CM2 LF34		W901	85-MA1-603-019	CABLE,FFC 12P-1.25	
LED225	87-070-300-010	LED,SEL1250SM LF34		X101	87-030-376-089	VIB,CER CSA5.76MG200	
LED226	87-070-270-010	LED,SEL1510CM2 LF34					
LED227	87-070-270-010	LED,SEL1510CM2 LF34					
LED228	87-070-300-010	LED,SEL1250SM LF34					
LED229	87-070-270-010	LED,SEL1510CM2 LF34					
LED701	87-017-785-080	LED,SEL 4214S<1900>		C701	87-010-402-089	CAP,E 2.2-50 SME	
LED702	87-017-785-080	LED,SEL 4214S<1900>		C702	87-010-402-089	CAP,E 2.2-50 SME	
LED703	87-017-785-080	LED,SEL 4214S<1900>		C703	87-010-322-089	C-CAP,S 100P-50 CH	
LED704	87-017-785-080	LED,SEL 4214S<1900>		C704	87-010-322-089	C-CAP,S 100P-50 CH	
LED705	87-017-785-080	LED,SEL 4214S<1900>		C705	87-016-073-089	CAP,E 1-50 FX	
LED706	87-017-785-080	LED,SEL 4214S<1900>		C706	87-016-073-089	CAP,E 1-50 FX	
LED707	87-017-785-080	LED,SEL 4214S<1900>		C707	87-010-805-089	C-CAP,S 1-16F	
LED708	87-017-785-080	LED,SEL 4214S<1900>		C708	87-010-805-089	C-CAP,S 1-16F	
LED709	87-017-731-080	LED,SEL1510CM2<1900>		C709	87-010-403-089	CAP,E 3.3-50 SME	
LED710	87-017-731-080	LED,SEL1510CM2<1900>		C710	87-010-403-089	CAP,E 3.3-50 SME	
LED901	87-017-731-080	LED,SEL1510CM2<2300>		C711	87-010-322-089	C-CAP,S 100P-50 CH	
LED902	87-017-785-080	LED,SEL 4214S<2300>		C712	87-010-322-089	C-CAP,S 100P-50 CH	
LED903	87-017-785-080	LED,SEL 4214S<2300>		C713	87-010-318-089	C-CAP,S 47P-50 CH	
LED904	87-017-785-080	LED,SEL 4214S<2300>		C714	87-010-318-089	C-CAP,S 47P-50 CH	
LED905	87-017-785-080	LED,SEL 4214S<2300>		C715	87-010-401-089	CAP,E 1-50 SME	
LED906	87-017-368-080	LED,SEL4514C TP-5<2300>		C716	87-010-401-089	CAP,E 1-50 SME	
LED907	87-017-368-080	LED,SEL4514C TP-5<2300>		C717	87-010-381-089	CAP,E 330-16 SME	
LED908	87-017-368-080	LED,SEL4514C TP-5<2300>		C718	87-015-692-089	CAP,E 0.22-50 7L	
LED909	87-017-368-080	LED,SEL4514C TP-5<2300>		C719	87-015-696-089	CAP,E 2.2-50 7L	
LED910	87-017-785-080	LED,SEL 4214S<2300>		C720	87-010-401-089	CAP,E 1-50 SME	
LED911	87-017-785-080	LED,SEL 4214S<2300>		C722	87-010-370-089	CAP,E 330-6.3 SME	
LED912	87-017-785-080	LED,SEL 4214S<2300>		C723	87-010-194-089	C-CAP,S 0.047-25 F	
S1	87-036-215-089	SW,TACT EVQ21404M<2300HE>		C724	87-010-194-089	C-CAP,S 0.047-25 F	
S2	87-036-215-089	SW,TACT EVQ21404M<2300HE>		C725	87-010-380-089	CAP,E 47-16 SME	
S201	87-036-215-089	SW,TACT EVQ21404M		C727	87-012-157-089	C-CAP,S 330P-50 CH	
S202	87-036-215-089	SW,TACT EVQ21404M		C728	87-012-157-089	C-CAP,S 330P-50 CH	
S203	87-036-215-089	SW,TACT EVQ21404M		C729	87-010-263-089	CAP,E 100-10 SME 5X11	
S204	87-036-215-089	SW,TACT EVQ21404M		C730	87-010-263-089	CAP,E 100-10 SME 5X11	
S205	87-036-215-089	SW,TACT EVQ21404M		C731	87-010-197-089	C-CAP,S 0.01-25 B	
S206	87-036-215-089	SW,TACT EVQ21404M		C732	87-010-197-089	C-CAP,S 0.01-25 B	
S207	87-036-215-089	SW,TACT EVQ21404M		C801	87-016-460-089	C-CAP,S 0.22-16 B	
S208	87-036-215-089	SW,TACT EVQ21404M		C802	87-016-460-089	C-CAP,S 0.22-16 B	
S209	87-036-215-089	SW,TACT EVQ21404M		C803	87-016-526-089	C-CAP,S 0.47-16 BK	
S210	87-036-215-089	SW,TACT EVQ21404M		C804	87-016-526-089	C-CAP,S 0.47-16 BK	
S211	87-036-215-089	SW,TACT EVQ21404M		C805	87-016-552-089	C-CAP,S 0.082-16 B K	
S212	87-036-215-089	SW,TACT EVQ21404M		C806	87-016-552-089	C-CAP,S 0.082-16 B K	
S213	87-036-215-089	SW,TACT EVQ21404M		C807	87-016-460-089	C-CAP,S 0.22-16 B	
S214	87-036-215-089	SW,TACT EVQ21404M		C808	87-016-460-089	C-CAP,S 0.22-16 B	
S215	87-036-215-089	SW,TACT EVQ21404M		C809	87-016-369-089	C-CAP,S 0.033-25 B K	
S216	87-036-215-089	SW,TACT EVQ21404M		C810	87-016-369-089	C-CAP,S 0.033-25 B K	
S217	87-036-215-089	SW,TACT EVQ21404M		C811	87-016-552-089	C-CAP,S 0.082-16 B K	
S218	87-036-215-089	SW,TACT EVQ21404M		C812	87-016-552-089	C-CAP,S 0.082-16 B K	
S219	87-036-215-089	SW,TACT EVQ21404M		C813	87-010-426-089	C-CAP,S 0.012-25 B	
S220	87-036-215-089	SW,TACT EVQ21404M		C814	87-010-426-089	C-CAP,S 0.012-25 B	
				C815	87-012-365-089	C-CAP,S 0.027-25V BK	

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C816	87-012-365-089		C-CAP,S 0.027-25V BK	△	87-050-079-019		AC-CORD ASSY,E
C817	87-010-186-089		C-CAP,S 4700P-50 B	△	87-033-147-019		CLAMP,FUSE
C818	87-010-186-089		C-CAP,S 4700P-50 B	△	82-304-743-019		TERMINAL,1P
C819	87-010-197-089		C-CAP,S 0.01-25 B	△F101	87-035-367-019		FUSE,3.15A 250V T E<2300>
C820	87-010-197-089		C-CAP,S 0.01-25 B	△F101	87-035-369-019		FUSE,5A 250V TE<1900>
C821	87-010-181-089		C-CAP,S 1800P-50 B	△SW101	87-036-387-019		SW,SL 1-2-3
C822	87-010-181-089		C-CAP,S 1800P-50 B				
C823	87-010-186-089		C-CAP,S 4700P-50 B				
C824	87-010-186-089		C-CAP,S 4700P-50 B				
C825	87-010-177-089		C-CAP,S 820P-50 SL	PRO/DSP C.B<2300>			
C826	87-010-177-089		C-CAP,S 820P-50 SL	C101	87-012-393-089		C-CAP,S 0.22-16,R,K<2300>
C827	87-010-181-089		C-CAP,S 1800P-50 B	C102	87-012-393-089		C-CAP,S 0.22-16,R,K<2300>
C828	87-010-181-089		C-CAP,S 1800P-50 B	C103	87-012-393-089		C-CAP,S 0.22-16,R,K<2300>
C829	87-010-404-089		CAP,E 4.7-50 SME	C104	87-010-404-089		CAP,E 4.7-50 SME<2300>
C830	87-010-404-089		CAP,E 4.7-50 SME	C105	87-010-404-089		CAP,E 4.7-50 SME<2300>
C831	87-010-379-089		CAP,E 22-16 SME	C106	87-012-393-089		C-CAP,S 0.22-16,R,K<2300>
C832	87-010-379-089		CAP,E 22-16 SME	C107	87-016-081-089		C-CAP,S 0.1-16 RK<2300>
C833	87-012-157-089		C-CAP,S 330P-50 CH	C108	87-016-081-089		C-CAP,S 0.1-16 RK<2300>
C834	87-012-157-089		C-CAP,S 330P-50 CH	C109	87-016-081-089		C-CAP,S 0.1-16 RK<2300>
C835	87-010-196-089		C-CAP,S 0.1-25 F	C110	87-016-081-089		C-CAP,S 0.1-16 RK<2300>
C836	87-010-101-089		CAP,E 220-16 SME	C113	87-010-176-089		C-CAP,S 680P-50 SL<2300>
C837	87-010-805-089		C-CAP,S 1-16F	C117	87-010-176-089		C-CAP,S 680P-50 SL<2300>
C838	87-010-101-089		CAP,E 220-16 SME	C119	87-016-456-089		CAP,E 22-16 LLA<2300>
C840	87-010-101-089		CAP,E 220-16 SME	C120	87-010-405-089		CAP,E 10-50 SME<2300>
C901	87-010-805-089		C-CAP,S 1-16F<2300>	C123	87-010-405-089		CAP,E 10-50 SME<2300>
C902	87-010-805-089		C-CAP,S 1-16F<2300>	C124	87-010-405-089		CAP,E 10-50 SME<2300>
C903	87-010-452-089		C-CAP,1-16 F<2300>	C125	87-010-186-089		C-CAP,S 4700P-50 B<2300>
C904	87-010-452-089		C-CAP,1-16 F<2300>	C126	87-016-472-089		CAP,E 22-16,SME (K)<2300>
MVR701	85-MA1-605-019		VOL,MOT 50KBX4<2300>	C127	87-010-405-089		CAP,E 10-50 SME<2300>
MVR701	84-MA1-712-019		VR,50KB*2 (M)<1900>	C128	87-010-405-089		CAP,E 10-50 SME<2300>
W902	85-MA1-602-019		CABLE,FFC 8P-1.25	C129	87-010-384-089		CAP,E 100-25 SME<2300>
JACK C.B				C130	87-010-248-089		CAP,E 220-10 SME<2300>
C601	87-010-677-089		CAP,E 0.15-50 7L	C132	87-012-394-089		C-CAP,0.68-16,R,K<2300>
C602	87-012-154-089		C-CAP,S 150P-50 CH	C201	87-010-197-089		C-CAP,S 0.01-25 B<2300>
C604	87-010-322-089		C-CAP,S 100P-50 CH	C202	87-010-405-089		CAP,E 10-50 SME<2300>
C605	87-012-157-089		C-CAP,S 330P-50 CH	C301	87-010-197-089		C-CAP,S 0.01-25 B<2300>
C606	87-010-112-049		CAP,E 100-16	C302	87-010-402-089		CAP,E 2.2-50 SME<2300>
C607	87-010-494-049		CAP,E 1-50 GAS	C303	87-010-404-089		CAP,E 4.7-50 SME<2300>
C608	87-010-406-049		CAP,E 22-50 SME	C304	87-010-405-089		CAP,E 10-50 SME<2300>
C609	87-010-263-049		CAP,E 100-10	C331	87-012-393-089		C-CAP,S 0.22-16,R,K<2300>
C611	87-010-494-049		CAP,E 1-50 GAS	C351	87-010-402-089		CAP,E 2.2-50 SME<2300>
C612	87-010-196-089		C-CAP,S 0.1-25 F	C352	87-010-196-089		C-CAP,S 0.1-25 F<2300>
J601	87-099-659-019		JACK,6.3 JY-6314-01130	C403	87-010-402-089		CAP,E 2.2-50 SME<2300>
J602	87-099-659-019		JACK,6.3 JY-6314-01130	C404	87-010-402-089		CAP,E 2.2-50 SME<2300>
CD KEY C.B				C411	87-010-248-089		CAP,E 220-10 SME<2300>
C401	87-010-197-089		C-CAP,S 0.01-25 B	C412	87-010-405-089		CAP,E 10-50 SME<2300>
LED401	87-070-271-080		LED,SEL6215S TP1	C415	87-010-402-089		CAP,E 2.2-50 SME<2300>
LED402	87-070-271-080		LED,SEL6215S TP1	C416	87-010-402-089		CAP,E 2.2-50 SME<2300>
LED403	87-070-271-080		LED,SEL6215S TP1	C452	87-010-263-089		CAP,E 100-10 SME 5X11<2300>
S401	87-036-215-089		SW,TACT EVQ21404M	C459	87-010-263-089		CAP,E 100-10 SME 5X11<2300>
S402	87-036-215-089		SW,TACT EVQ21404M	C471	87-010-402-089		CAP,E 2.2-50 SME<2300>
S403	87-036-215-089		SW,TACT EVQ21404M	C472	87-010-402-089		CAP,E 2.2-50 SME<2300>
S404	87-036-215-089		SW,TACT EVQ21404M	C481	87-010-402-089		CAP,E 2.2-50 SME<2300>
S405	87-036-215-089		SW,TACT EVQ21404M	C482	87-010-402-089		CAP,E 2.2-50 SME<2300>
W401	85-MA2-604-019		F-CABLE,6P-2.0	C501	87-010-177-089		C-CAP,S 820P-50 SL<2300>
AC-2 C.B				C502	87-010-179-089		C-CAP,S 1200P-50 B<2300>
△F102	87-033-213-089		CLAMP FUSE SMK	C503	87-010-263-089		CAP,E 100-10 SME 5X11<2300>
△F103	87-035-369-019		FUSE,5A 250V TE	C504	87-010-263-089		CAP,E 100-10 SME 5X11<2300>
△PT101	85-MA1-606-019		PT,5MA-1 HE<2300>	C505	87-010-196-089		C-CAP,S 0.1-25 F<2300>
△PT101	85-MA2-606-019		PT,5MA-2 HE<1900>	C507	87-010-317-089		C-CAP,S 39P-50 CH<2300>
PT C.B				C508	87-010-151-089		C-CAP,S 7P-50 CH<2300>
				C510	87-010-187-089		C-CAP,S 5600P-50 B<2300>
				C512	87-010-179-089		C-CAP,S 1200P-50 B<2300>
				C513	87-010-195-089		C-CAP,S 0.068-25 F<2300>
				C514	88-707-919-819		CAP,M 0.1-50 J TF<2300>
				C515	88-707-919-819		CAP,M 0.1-50 J TF<2300>
				C516	87-010-195-089		C-CAP,S 0.068-25 F<2300>
				C517	87-010-404-089		CAP,E 4.7-50 SME<2300>
				C518	87-010-404-089		CAP,E 4.7-50 SME<2300>
				C519	87-010-187-089		C-CAP,S 5600P-50 B<2300>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C520	87-010-179-089		C-CAP,S 1200P-50 B<2300>	R636	88-130-100-089		RES,10-1/4W J<2300>
C521	87-012-141-089		C-CAP,S 0.22-16 F<2300>	R703	87-022-050-089		RESIS METAL 1W-0.22J<2300>
C524	87-010-178-089		C-CAP,S 1000P-50 B<2300>	R708	87-022-050-089		RESIS METAL 1W-0.22J<2300>
C611	87-012-140-089		C-CAP,S 470P-50 CH<2300>				
C612	87-012-140-089		C-CAP,S 470P-50 CH<2300>				
				DECK C.B			
C613	87-010-402-089		CAP,E 2.2-50 SME<2300>	SFR1	87-024-581-010		SFR,3.3K DIA 6H
C614	87-010-402-089		CAP,E 2.2-50 SME<2300>	SOL1	82-ZM1-618-310		SOL ASSY,27
C615	87-010-194-089		C-CAP,S 0.047-25 F<2300>	SOL2	82-ZM1-618-310		SOL ASSY,27
C616	87-010-405-089		CAP,E 10-50 SME<2300>	SW1	87-036-378-010		SW, PUSH 1-1-1 SH2
C617	87-010-405-089		CAP,E 10-50 SME<2300>	SW2	87-036-378-010		SW, PUSH 1-1-1 SH2
C621	87-010-260-089		CAP,E 47-25 SME<2300>	SW3	87-036-378-010		SW, PUSH 1-1-1 SH2
C622	87-010-147-089		C-CAP,S 3P-50 CH<2300>	SW4	87-036-378-010		SW, PUSH 1-1-1 SH2
C622	87-010-147-089		C-CAP,S 3P-50 CH<2300>	SW5	87-036-378-010		SW, PUSH 1-1-1 SH2
C623	87-010-147-089		C-CAP,S 3P-50 CH<2300>	SW6	87-036-378-010		SW, PUSH 1-1-1 SH2
C631	87-010-993-089		C-CAP,S 0.056-25 B<2300>	SW7	87-036-378-010		SW, PUSH 1-1-1 SH2
C632	87-010-993-089		C-CAP,S 0.056-25 B<2300>	SW8	87-036-378-010		SW, PUSH 1-1-1 SH2
C633	87-010-196-089		C-CAP,S 0.1-25 F<2300>				
C634	87-010-196-089		C-CAP,S 0.1-25 F<2300>				
C651	87-010-178-089		C-CAP,S 1000P-50 B<2300>	RELAY-1 C.B			
C652	87-010-178-089		C-CAP,S 1000P-50 B<2300>	W106	85-MA2-615-019		CONN ASSY,3P PH
C653	87-010-197-089		C-CAP,S 0.01-25 B<2300>				
C720	87-010-398-099		CAP,E 2200-35V<2300>	RELAY-2 C.B			
C721	87-010-398-099		CAP,E 2200-35V<2300>				
C722	87-012-369-089		C-CAP,S,0.047-50 F<2300>				
C723	87-012-369-089		C-CAP,S,0.047-50 F<2300>				
J101	87-099-803-019		JACK,PIN 3P OWR<2300>				
L301	87-003-097-089		COIL,1UH<2300>				
L501	87-003-153-089		COIL 150UH LALO2<2300>				
R117	87-025-407-089		RES,M/F 100K-1/8W<2300>				
R635	88-130-100-089		RES,10-1/4W J<2300>				

○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

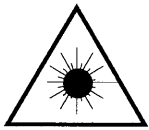
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions/寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

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

CAUTION

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

ATTENTION

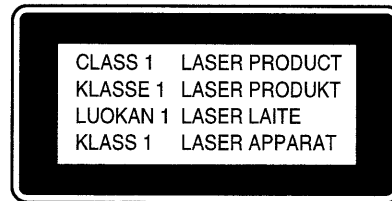
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

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

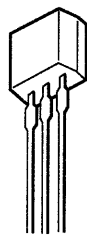
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



TRANSISTOR ILLUSTRATION



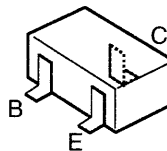
ECB



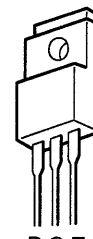
ECB

2SA935 2SC3266
2SA952 2SC3331
2SA1296 2SD655
2SA1318 KTC3198
2SC2240

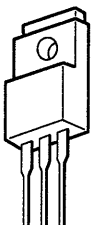
2SA933S
DTA114YS



2SA1162 DTA143EK
2SC1623 DTA144EK
2SC2412 DTA144WK
2SC2712 DTC114YK
2SC2714 DTC144EK
2SC3326 DTC144WK
2SC3722K

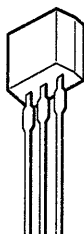


2SB1370



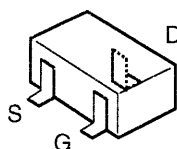
GDS

2SJ176
2SK1094



DGS

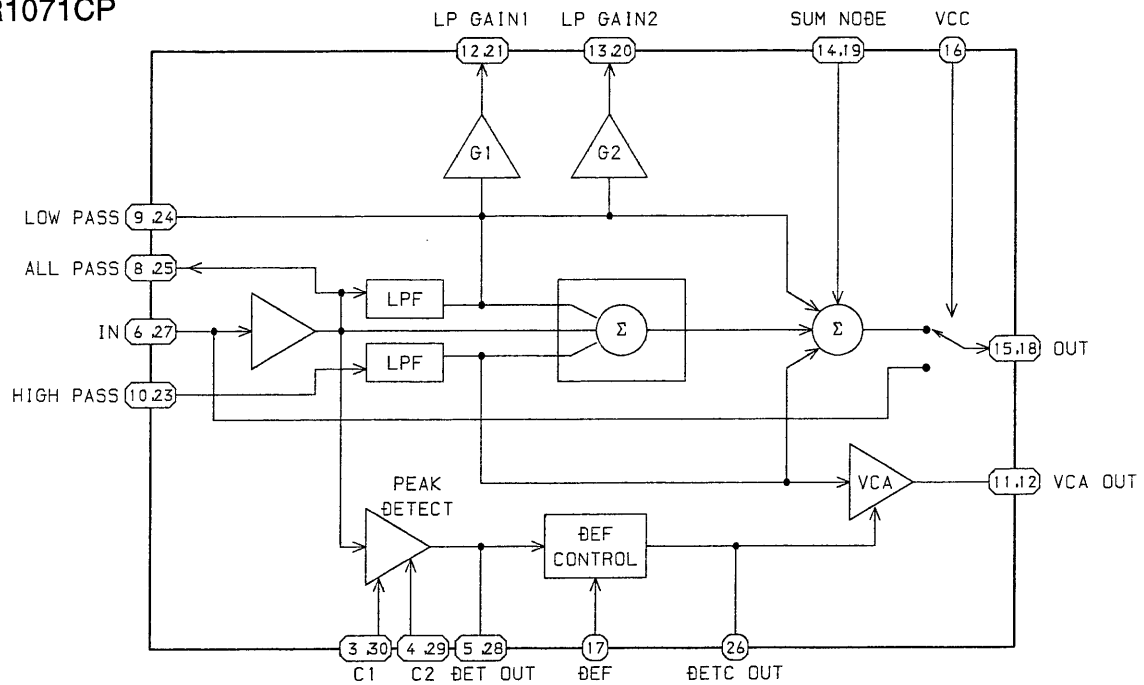
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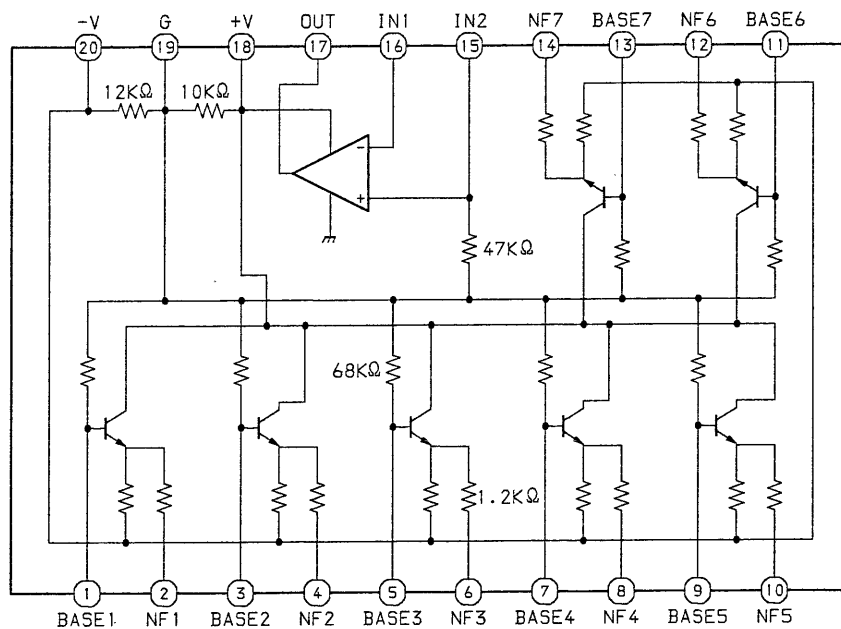
2SK543

IC BLOCK DIAGRAM

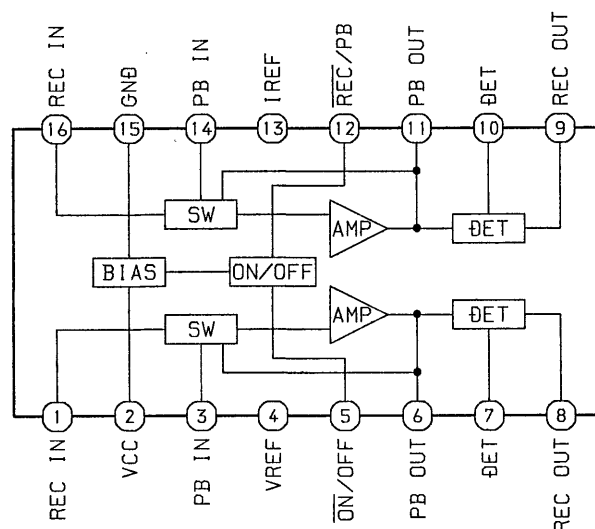
IC, XR1071CP



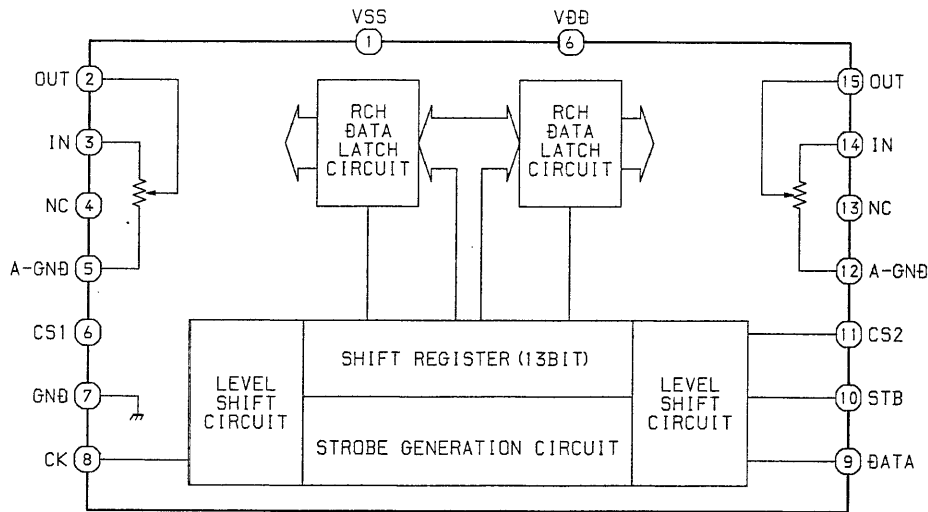
IC, LA3607



IC, HA12134A



IC, TC9299P

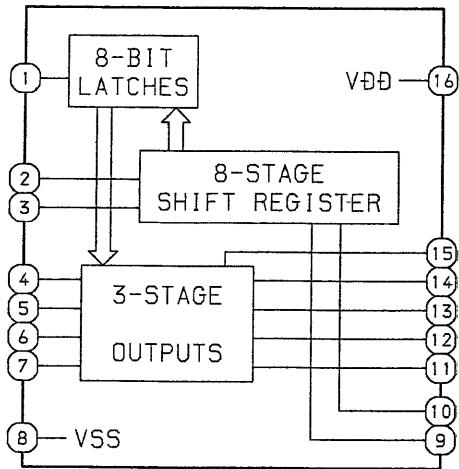


TRUTH TABLE

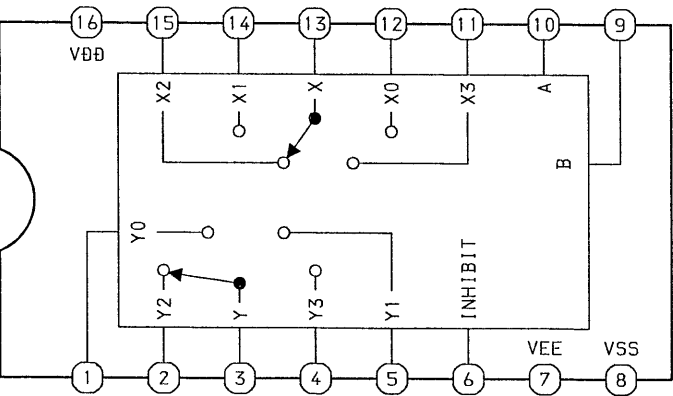
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUT		SERIAL OUTPUT	
				Q1	Qn	Qs	Q's
$\overline{F}$	L	X	X	Z	Z	Q7	No chg.
$\overline{F}$	L	X	X	Z	Z	No chg.	Qs
$\overline{F}$	H	L	X	No chg.	No chg.	Q7	No chg.
$\overline{F}$	H	H	L	L	Qn-1	Q7	No chg.
$\overline{F}$	H	H	H	H	Qn-1	Q7	No chg.
$\overline{F}$	H	X	X	No chg.	No chg.	No chg.	Qs

Z= High Impedance
X= Don't Care

IC, TC4094BP



IC, TC4052

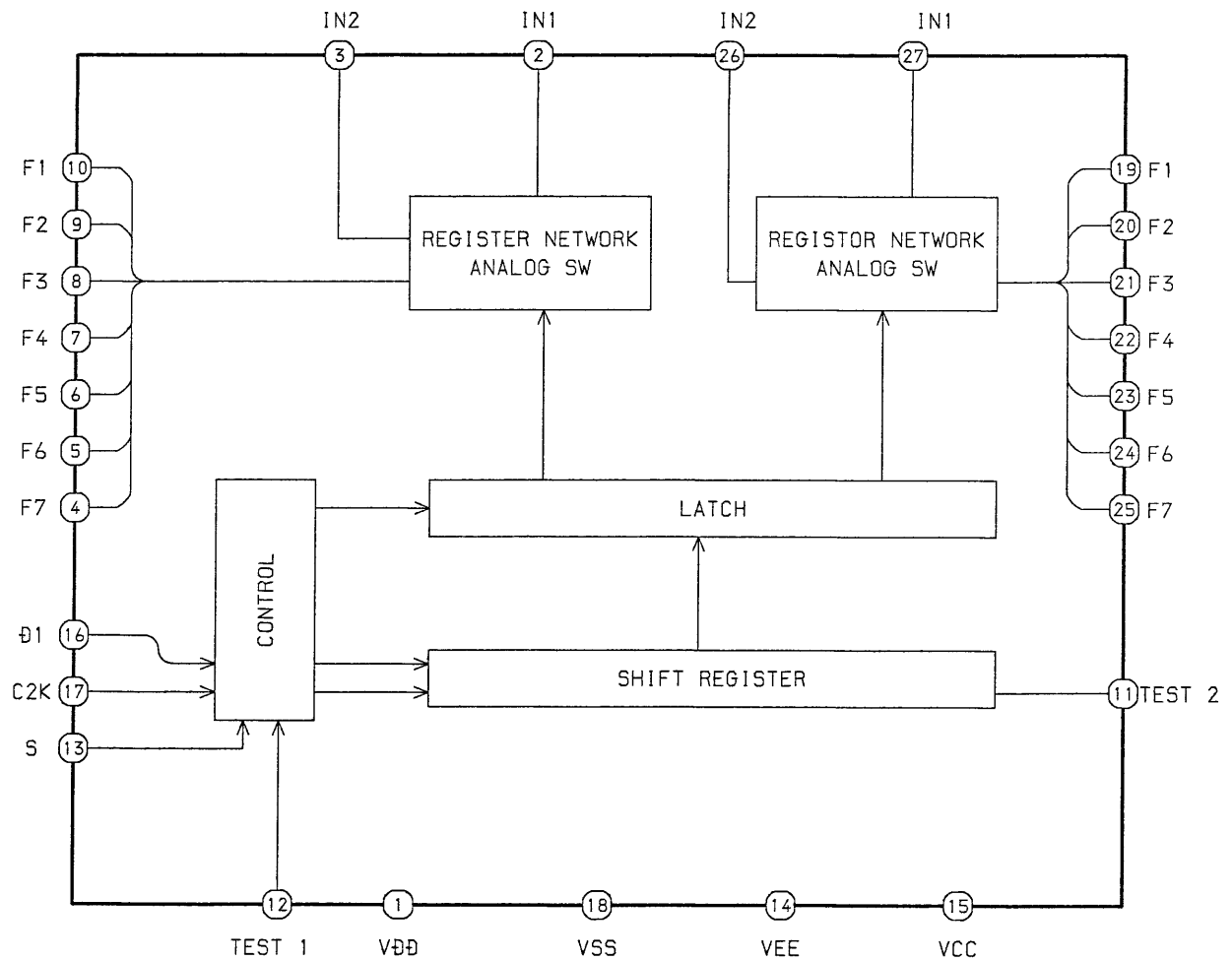


TRUTH TABLE

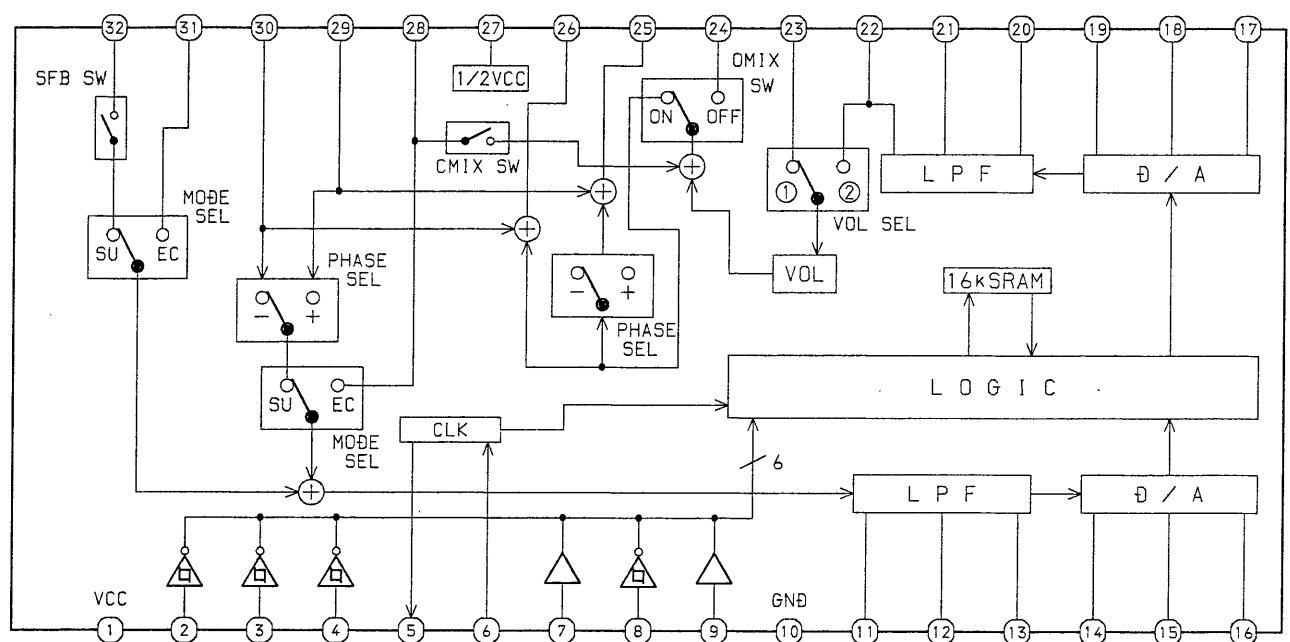
CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

L: LOW LEVEL
H: HIGH LEVEL
X: IRRELEVANT

IC, LC7522



IC, M65846FP



IC DESCRIPTION

IC, LC866440V-5790 (2300) IC, LC866432V-5780 (1900)

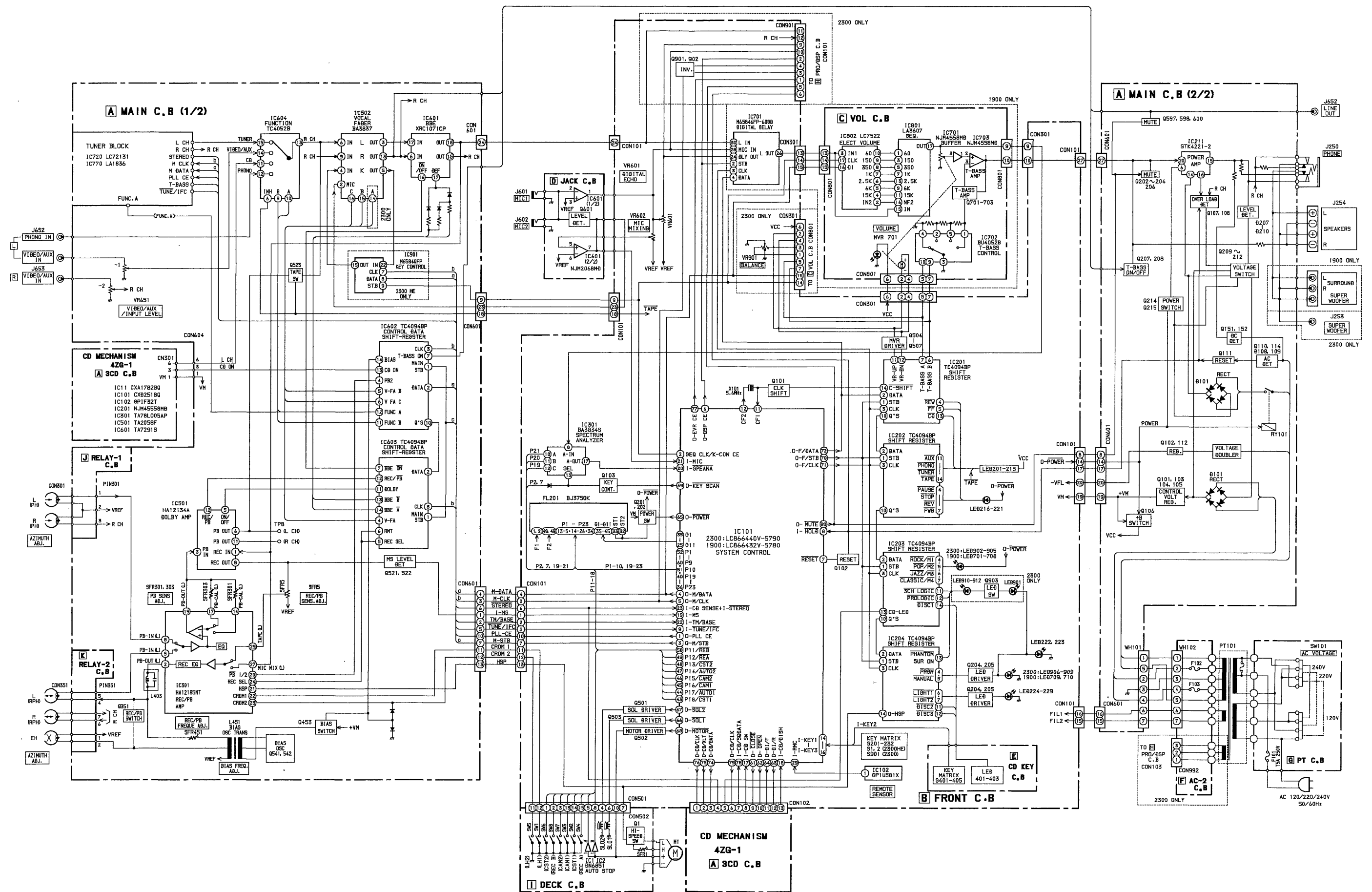
Pin No.	Pin Name	I/O	Description
1	O-PLLCE	O	PLL IC chip enable output.
2	K-CON CE GEQ CLK	O	Key control chip enable, graphic equalizer IC data transfer clock output.
3	O-M/STB	O	Key main shift register, data latch strobe output.
4	O-M/DATA	O	Key main shift register/PLL/DSP related data output.
5	O-M/CLK	O	Key main shift register/PLL/DSP related data transfer clock output.
6	O-DSPCE	O	DSP data latch strobe output.
7	RESET	I	Reset input.
8	I-HOLD	I	Power failure detect input (Hold at 'L') P74 input data is "1" at "L" level.
9	I-TUNE/IFC	I	Tuner SD detection input/IF count serial data input.
10	VSS1	—	GND terminal.
11	CF1	I	Clock terminal (5.76 MHz).
12	CF2	O	Clock terminal (5.76 MHz).
13	VDD1	—	Power supply terminal.
14	I-KEY1	I	Key 1 A/D input.
15	I-KEY2	I	Key 2 A/D input.
16	I-KEY3	I	Key 3 A/D input.
17	I-CD/SW	I	CD mechanism switch A/D input.
18	I-CD/DISH	I	CD turntable photo sensor A/D input.
19	I-MS	I	Deck MS detection A/D input.
20	I-SPEANA	I	Spectrum analyzer level A/D input.
21	I-MIC	I	Mic level A/D input for auto vocal fader.
22	I-TM/BASE	I	DSP data latch strobe output.
23	I-CD SENSE I-STEREO	I	Watch reference clock input (8/50/60 Hz automatic supported).
24	I-RMC	I	System remote control input (active low).
25~35	G11~G1	O	FL grid output (G11~G1).
36	P23	O	FL segment output (P23).
37	P22	O	FL segment output (P22).
38	P21	O	FL segment output (P21)/spectrum analyzer band select output (A).
39	P20	O	FL segment output (P20)/spectrum analyzer band select output (B).
40	P19	O	FL segment output (P19)/spectrum analyzer band select output (C).
41	VDD2	—	Power supply terminal.
42	-VP	—	Power supply for FL display.
43	P18/CST1	I	FL segment output (P18)/DECK-1 cassette sensed switch input.
44	P17/AUTO1	I	FL segment output (P17)/DECK-1 auto stop input.
45	P16/CAM1	I	FL segment output (P16)/DECK-1 cam switch input.
46	P15/CAM2	I	FL segment output (P15)/DECK-2 cam switch input.
47	P14/AUTO2	I	FL segment output (P14)/DECK-2 auto stop input.
48	P13/CST2	I	FL segment output (P13)/DECK-2 cassette sensed switch input.
49	P12/REĀ	I	FL segment output (P12)/DECK-2 side-A record OK switch input.
50	P11/REĒ	I	FL segment output (P11)/DECK-2 side-B record OK switch input.

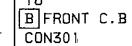
Pin No.	Pin Name	I/O	Description
51	P10/FM-WIDE	O	FL segment output (P10).
52	P1/AMST	O	FL segment output (P1).
53	P2/AM10K	O	FL segment output (P2).
54	P3/LW	O	FL segment output (P3).
55	P4/SW	O	FL segment output (P4).
56	P5/NO-BBE	O	FL segment output (P5).
57	P6/NO-DSP	O	FL segment output (P6).
58	P7/KCON	O	FL segment output (P7).
59	P8	O	FL segment output (P8).
60	P9/OIRT	O	FL segment output (P9).
61	O-CLOSE	O	CD tray close output.
62	O-OPEN	O	CD tray open output.
63	DI/R	O	CD turntable reverse rotation output.
64	DI/F	O	CD turntable forward rotation output.
65	O-POWER	O	System power ON/OFF output.
66	O-SOL1	O	Deck-1 plunger ON/OFF output.
67	O-SOL2	O	Deck-2 plunger ON/OFF output.
68	O-MOTOR	O	Deck motor ON/OFF output.
69	O-KEY_SCAN	O	Segment input enable output (low active).
70	O-F/STB	O	Front shift register data latch strobe output.
71	O-F/CLK	O	Front shift register data transfer clock output.
72	O-F/DATA	O	Front shift register data output.
73	VSS2	—	GND terminal.
74	O-CD/DATA	O	CD IC control data output.
75	O-CD/XLT	O	CD IC control data latch output.
76	O-CD/CLK	O	CD IC control data transfer clock output.
77	O-EVR CE	O	Electronic VR data latch strobe output.
78	I-CD/SQ DATA	I	CD SUB-Q data input.
79	O-CD/SQ CLK	O	Clock output for CD SUB-Q data input.
80	O-MUTE	O	System mute ON/OFF output.

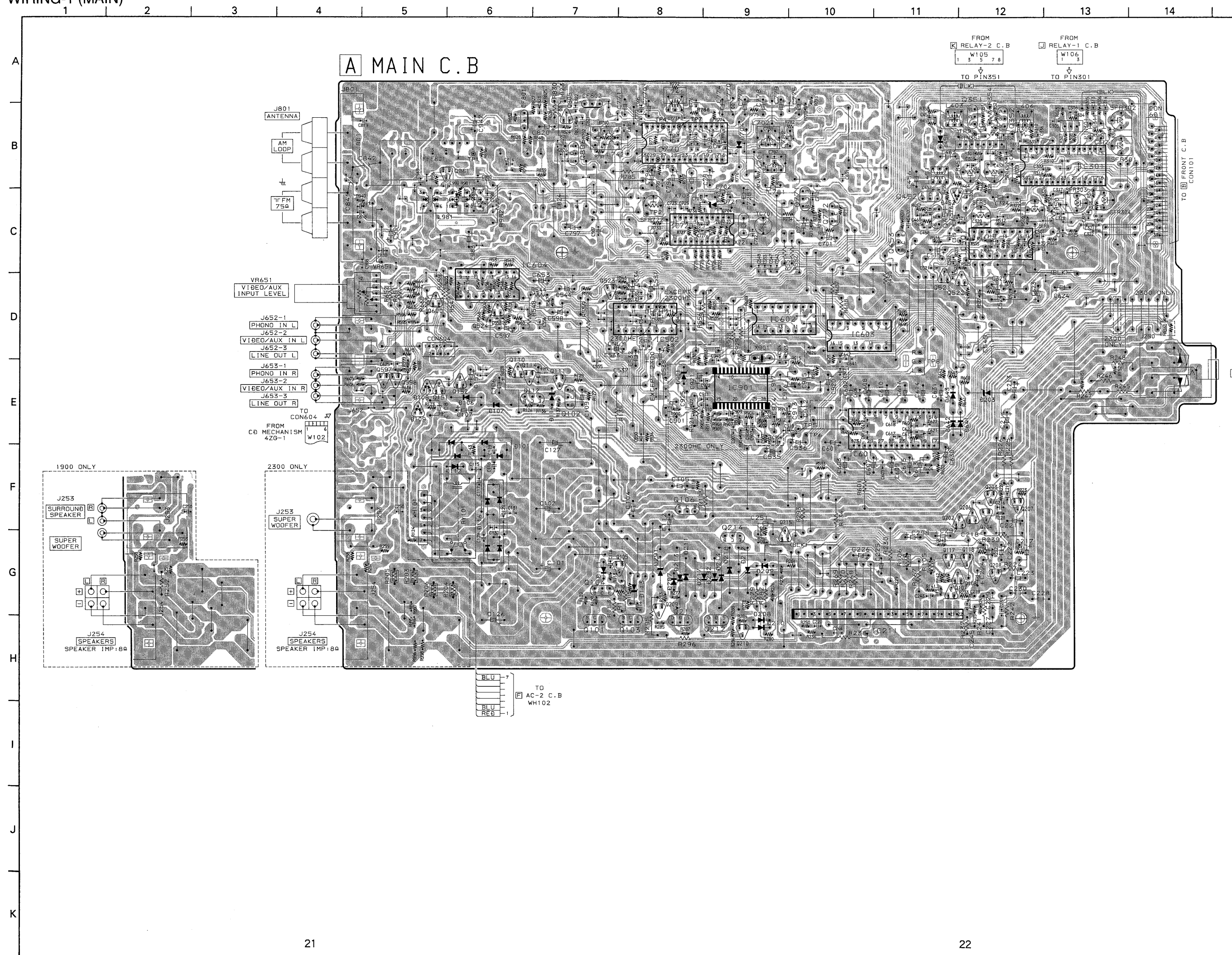
TO MAIN BLOCK



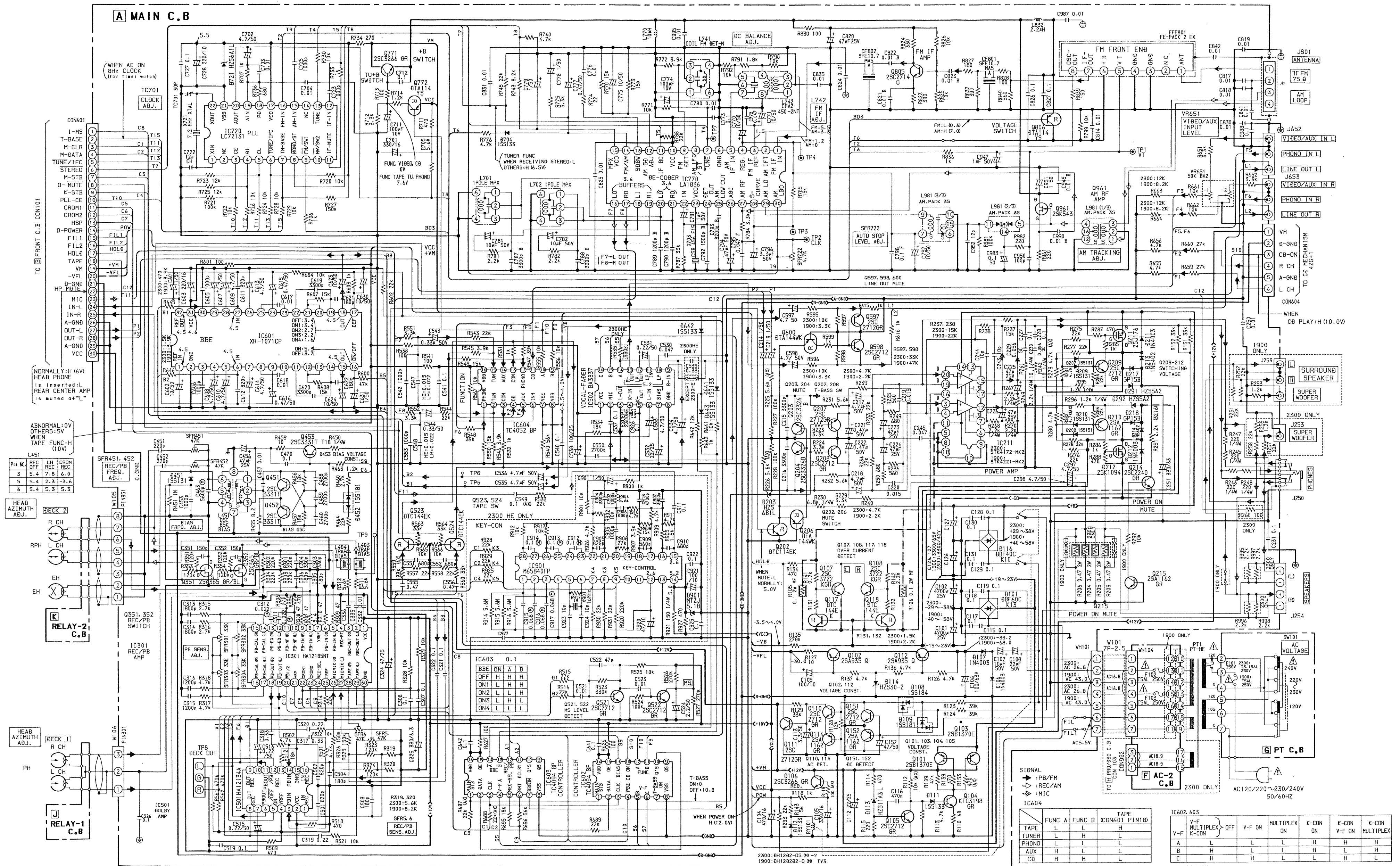
BLOCK DIAGRAM-2 (MAIN)

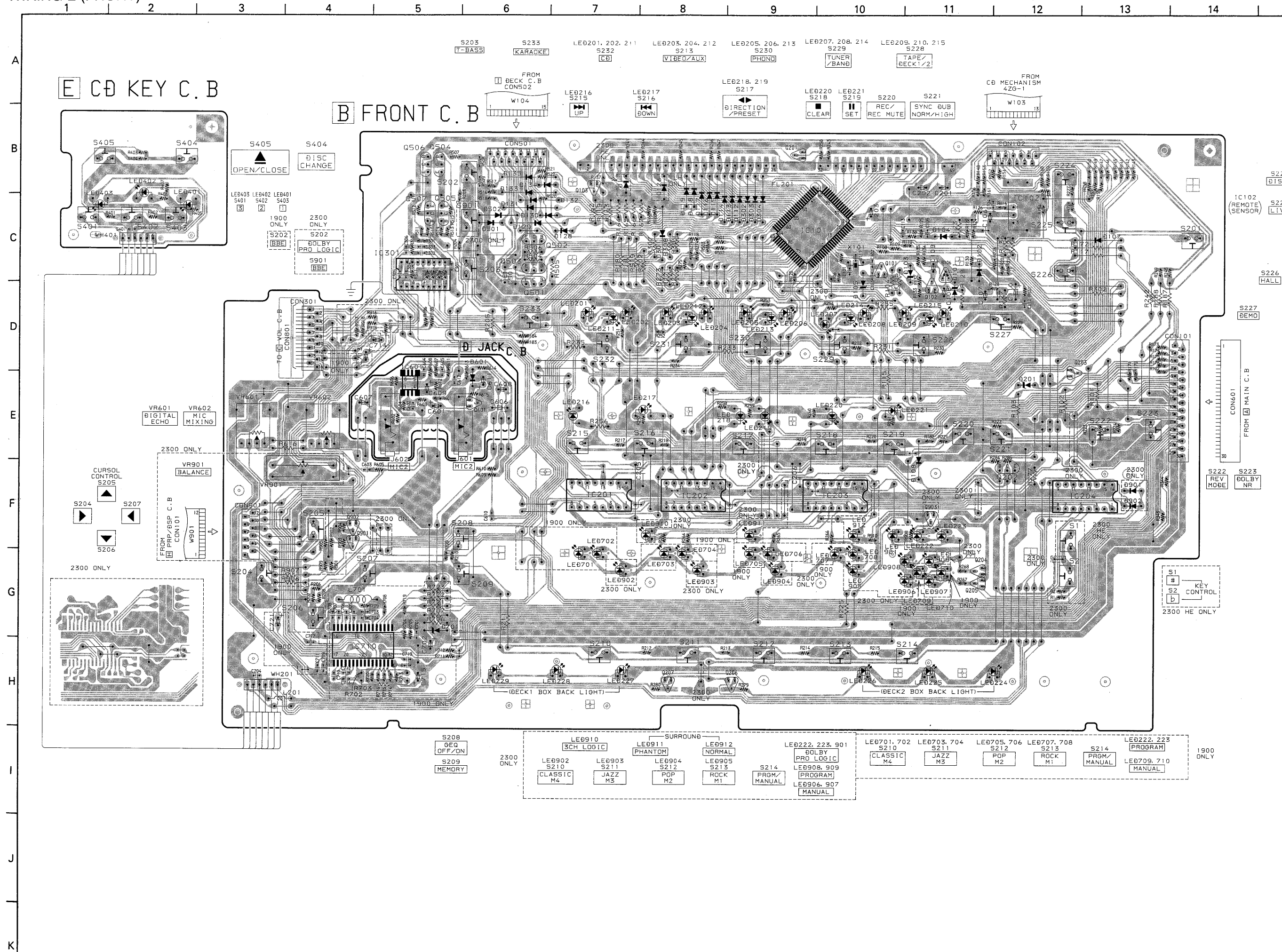






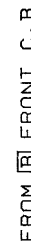
SCHEMATIC DIAGRAM-1 (MAIN)



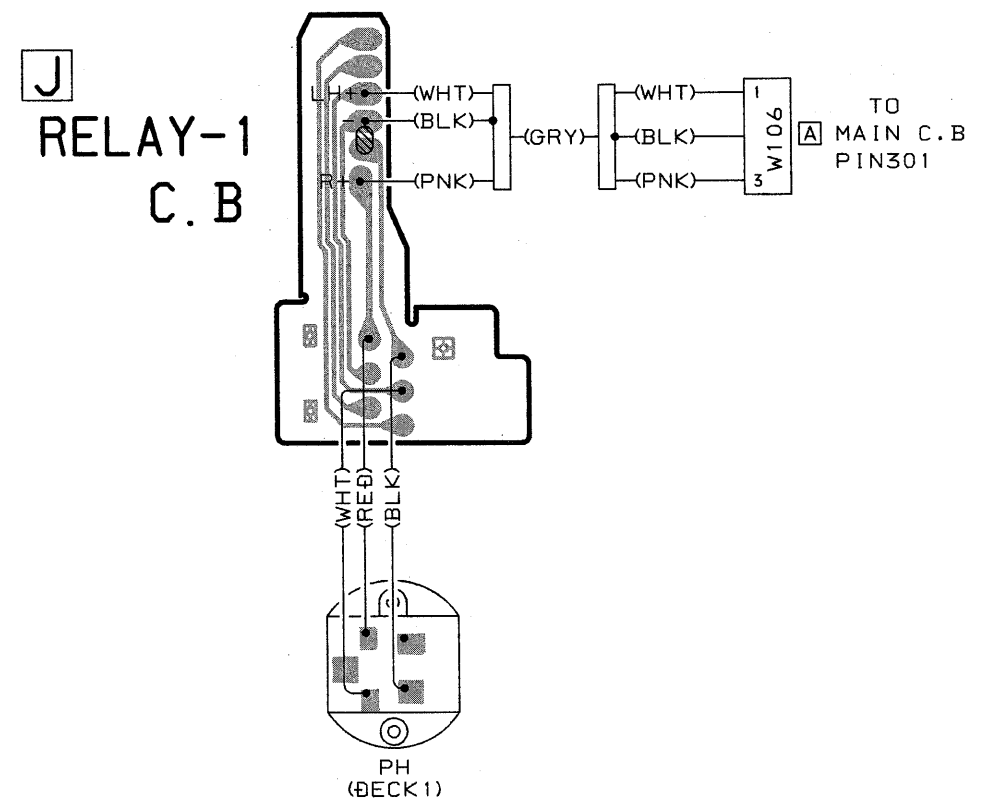
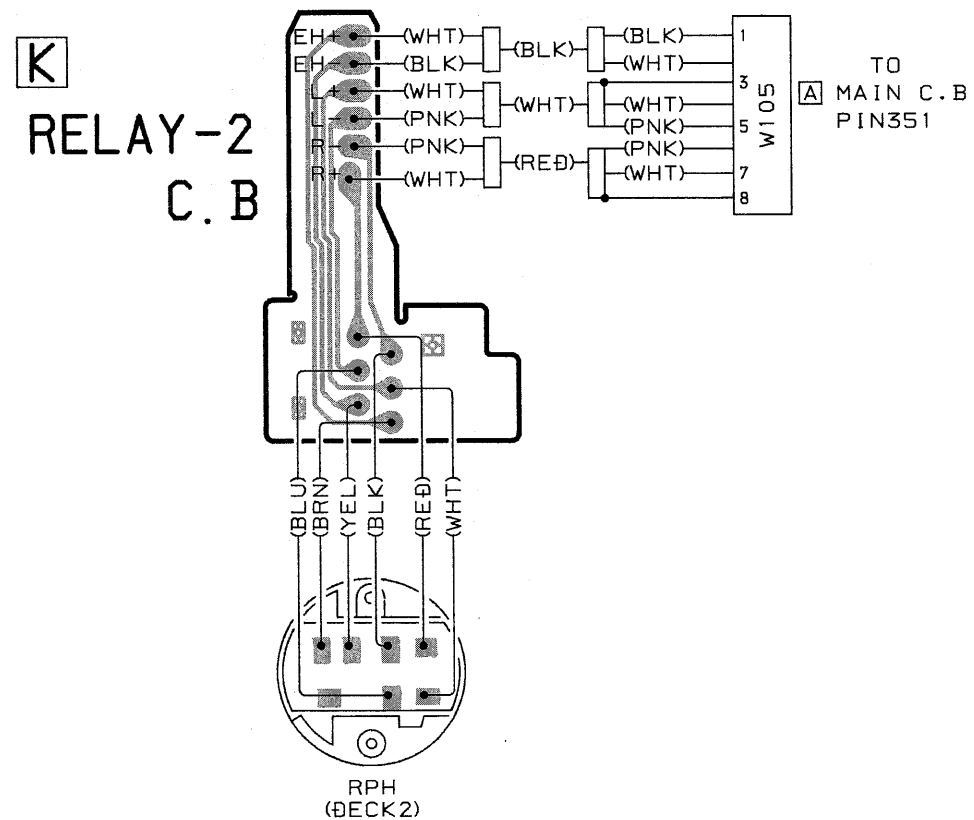
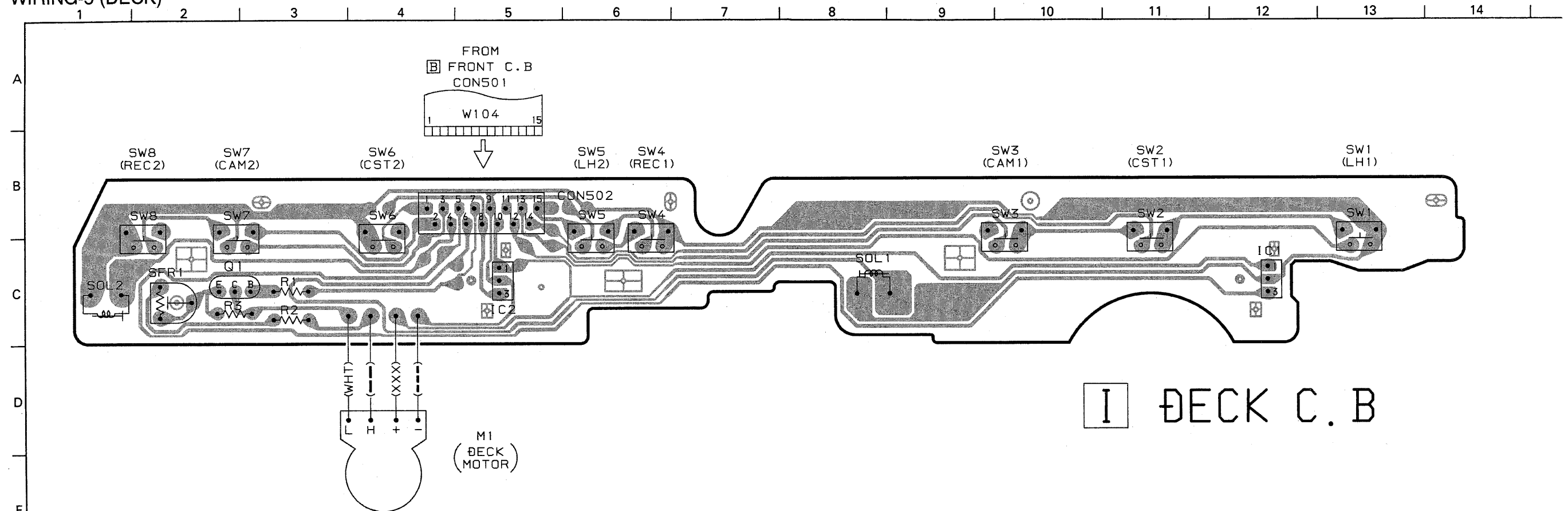


SPEAKER
IMP: 16Ω

FROM [F] AC-2 C.B

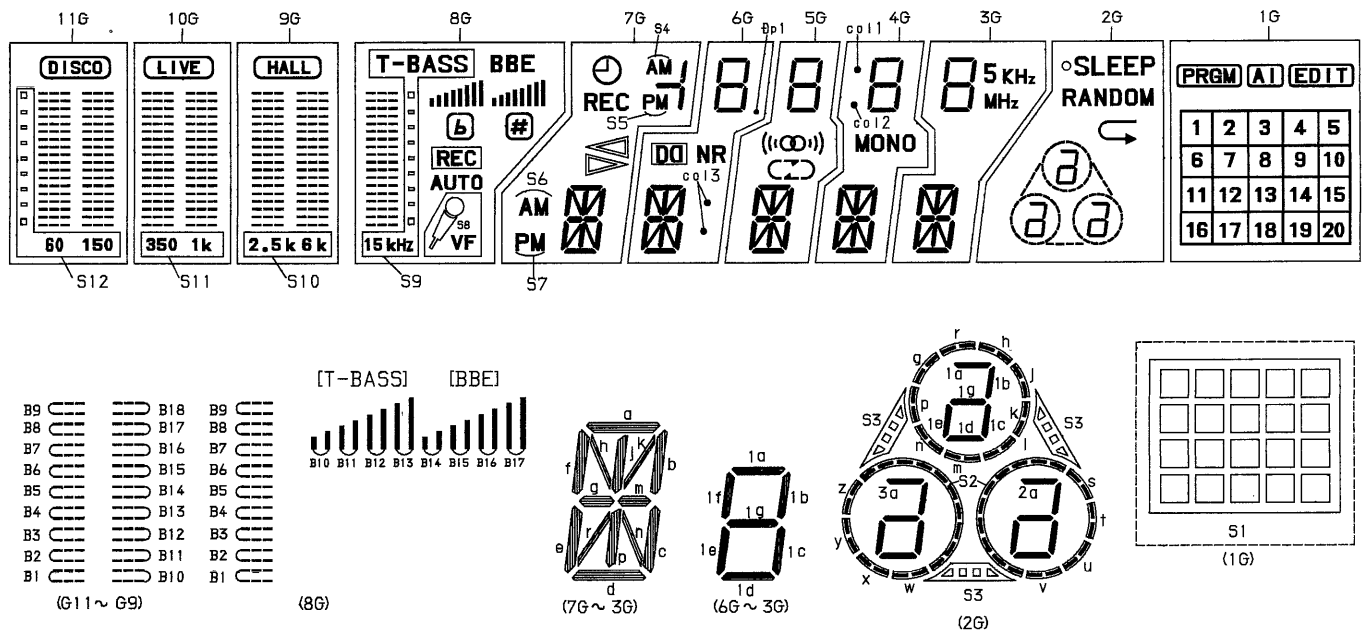






FL (BJ375GK) GRID ASSIGNMENT / ANODE CONNECTION

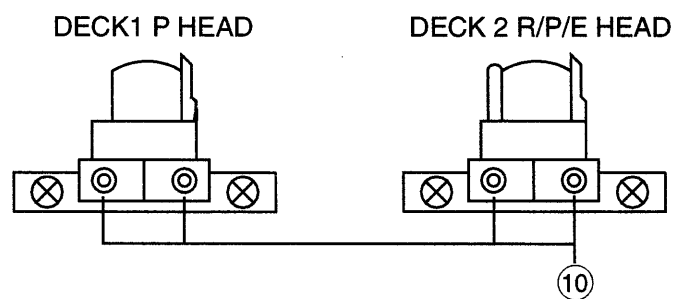
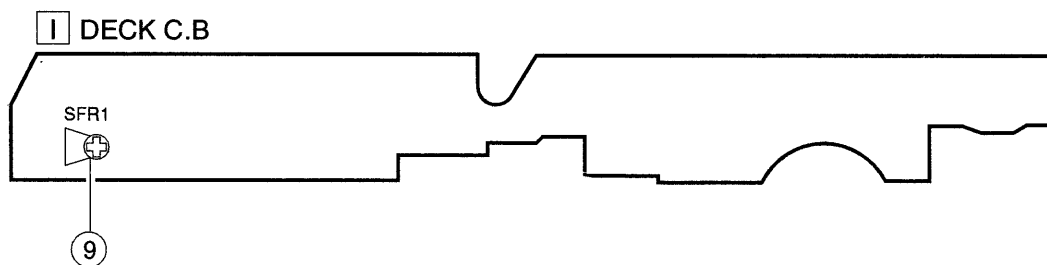
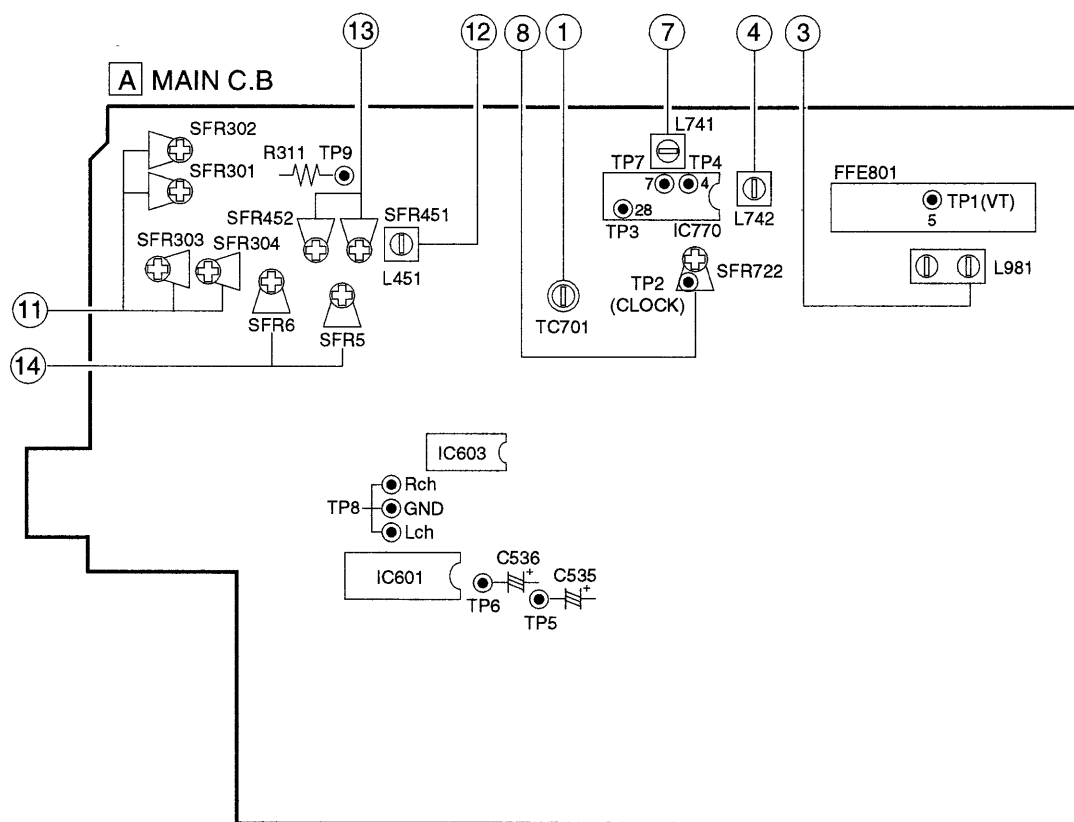
GRID ASSIGNMENT



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	b #	d	d	d	d	d	s, t, w, x	20
P2	B1	B1	B1	B1	j, p	j, p	j, p	j, p	j, p	u, v, y, z	19
P3	B11	B11	B11	S8	n	n	n	n	n	3e	18
P4	B2	B2	B2	B2	r	r	r	r	r	3c	17
P5	B12	B12	B12	(b)	c	c	c	c	c	3a, 3d, 3g	16
P6	B3	B3	B3	B3	e	e	e	e	e	3b	15
P7	B13	B13	B13	(#)	m	m	m	m	m	2e	14
P8	B4	B4	B4	B4	g	g	g	g	g	2c	13
P9	B5	B5	B5	B5	f	f	f	f	f	2a, 2d, 2g	11
P10	B15	B15	B15	AUTO	b	b	b	b	b	S3	10
P11	B6	B6	B6	B6	k	k	k	k	k	j, m, q	9
P12	B16	B16	B16	B10	h	h	h	h	h	h, l, p	8
P13	B7	B7	B7	B7	a	a	a	a	a	k, n, r	7
P14	B14	B14	B14	REC	S7	col 3	(C)	col 1	kHz	2b	12
P15	B17	B17	B17	B11	S6	DO NR	((C))	MONO	5	1e	6
P16	B8	B8	B8	B8	▷	dp1	)	col 2	MHz	1a, 1d, 1g	5
P17	B18	B18	B18	B12	◁	1d	1d	1d	1d	1c	4
P18	B9	B9	B9	B9	REC	1e	1e	1e	1e	1b	3
P19	□	□	□	B13	S5	1c	1c	1c	1c	○	2
P20	—	—	—	B14	—	1g	1g	1g	1g	S2	1
P21	—	—	—	B15	/	1f	1f	1f	1f	↶	EDIT
P22	—	—	—	B16	⌚	1b	1b	1b	1b	SLEEP	AI
P23	DISCO	LIVE	HALL	B17	S4	1a	1a	1a	1a	RANDOM	PRGM
P24	S12	S11	S10	S9	—	—	↷	—	—	—	S1
P25	—	—	—	BBE	—	—	—	—	—	—	—

ELECTRICAL ADJUSTMENT



<TUNER SECTION>

1. Clock Frequency Adjustment

Settings: · Test point : TP2

· Adjustment location : TC701

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

LH: Set to MW 1710kHz and adjust TC701 so that the test point becomes $2160\text{kHz} \pm 0.01\text{kHz}$.

2. MW VT Check

Setting: · Test point : TP1

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

LH: Set to MW 1710kHz and check that the test point is $7.0\text{V} \pm 1.0\text{V}$.

3. MW Tracking Adjustment

Settings: · Test point : TP5(Lch), TP6(Rch)

· Adjustment location : L981

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

LH: Set to MW 1000kHz and adjust L981 that the test point becomes maximum.

4. MW IF Adjustment

Setting: · Test point : TP5(Lch), TP6(Rch)

L742 450kHz

5. FM VT Check

Setting: · Test point : TP1

Method: Set to FM 87.5MHz and check that the test point is more than 1.0V. Then set to FM 108MHz and check that the test point is less than 8.0V.

6. FM Tracking Check

Setting: · Test point : TP5(Lch), TP6(Rch)

Method: Check that the test point is $2 \pm 6\text{dB}$ and distortion is less than 3% at FM98.0MHz.

7. DC Balance/MONO Distortion Adjustment

Settings: · Test point : TP3, TP4 (DC Balance)

TP5(Lch), TP6(Rch) (Distortion)

· Adjustment location : L741

· Input level : 54dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$. Next check that the distortion is less than 1.3%.

8. Auto Stop Level Adjustment

Settings: · Test point : TP7

· Adjustment location : SFR722

· Input level : 16dB

Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

<TAPE SECTION>

9. Tape Speed Adjustment (DECK2)

Settings: · Test tape : TTA-100

· Test point : TP8

· Adjustment location : SFR1

Method: Play back the test tape, adjust SFR1 for $3000\text{Hz} \pm 5\text{Hz}$.

10. Azimuth Adjustment (DECK1, DECK2)

Settings: · Test tape : TTA-300

· Test point : TP8

· 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.

11. PB Sensitivity Adjustment (DECK1, DECK2)

Settings: · Test tape : TTA-200

· Test point : TP8

· Adjustment location : (DECK1)

SFR301 (Lch)

SFR302 (Rch)

(DECK2)

SFR303 (Lch)

SFR304 (Rch)

Method: Play back the test tape and adjust so that the output becomes 300mV.

12. Bias Frequency Adjustment (DECK2)

Settings: · Test tape : TTA-602

· Test point : TP9

· Adjustment location : L451

Method: Set to DECK2 to the record mode and adjust L451 so that the frequency at TP9 is $85.0\text{kHz} \pm 0.1\text{kHz}$.

13.REC/PB Frequency Response Adjustment (DECK2)

- Settings:
- Test tape : TTA-602
 - Test point : TP8
 - Input signal : 1kHz/10kHz
(AUX IN/AUX Vol. MAX)
 - Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method: Apply a 1kHz signal and adjust attenuator so that the level at the test point is 210mV.

Record and play back the 1kHz and 10kHz signal and adjust so that the output level of 10kHz signal is $0\text{dB} \pm 0.5\text{dB}$ for 1kHz signal.

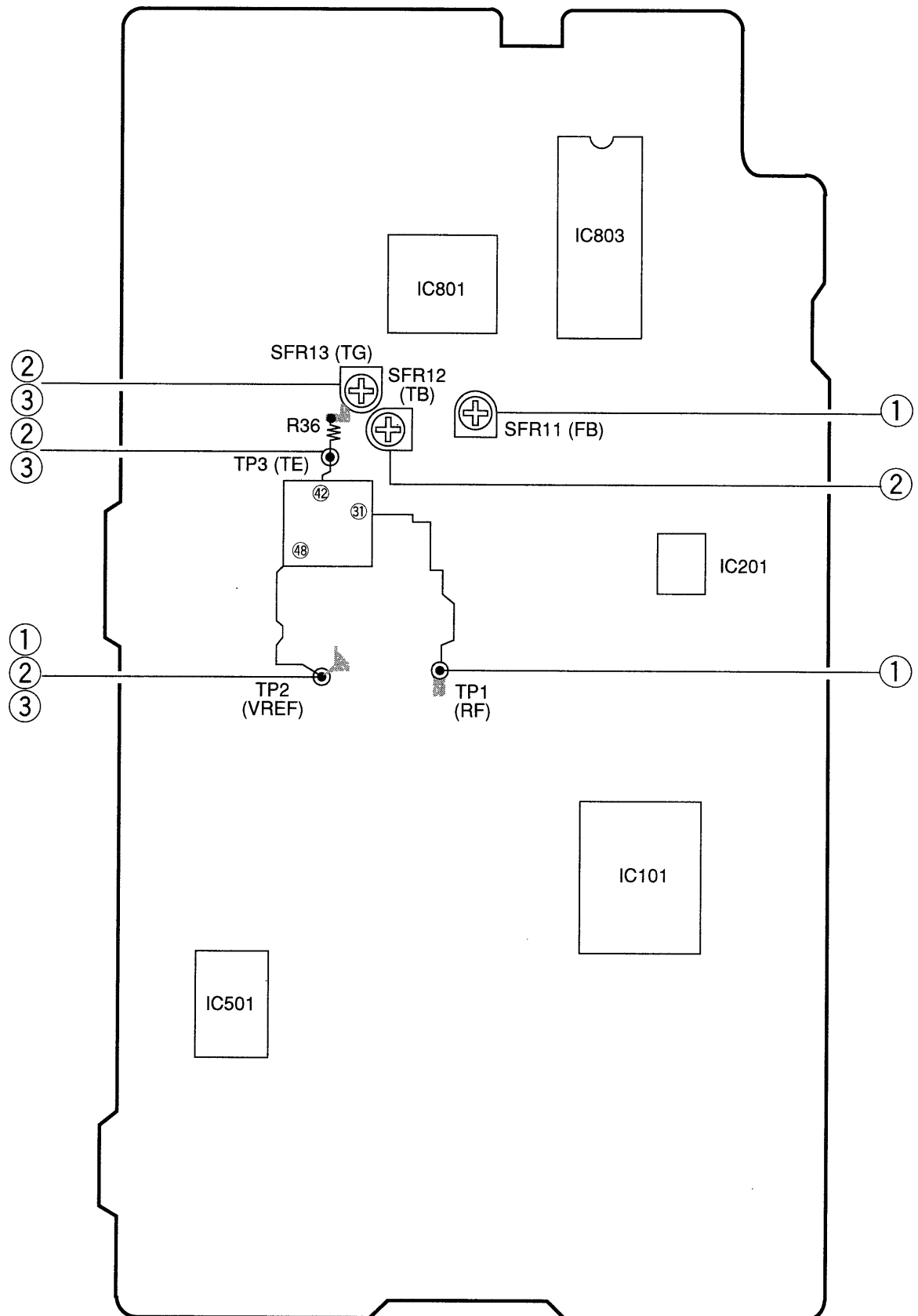
14.REC/PB Sensitivity Adjustment (DECK2)

- Settings:
- Test tape : TTA-602
 - Test point : TP8
 - Input signal : 1kHz/10kHz
(AUX IN/AUX Vol. MAX)
 - Adjustment location : SFR5 (Lch)
SFR6 (Rch)

Method: Apply a 1kHz signal and adjust attenuator so that the level at the test point is 21mV.

Record and play back the 1kHz and 10kHz signal and adjust so that the output level is $21\text{mV} \pm 0.5\text{dB}$.

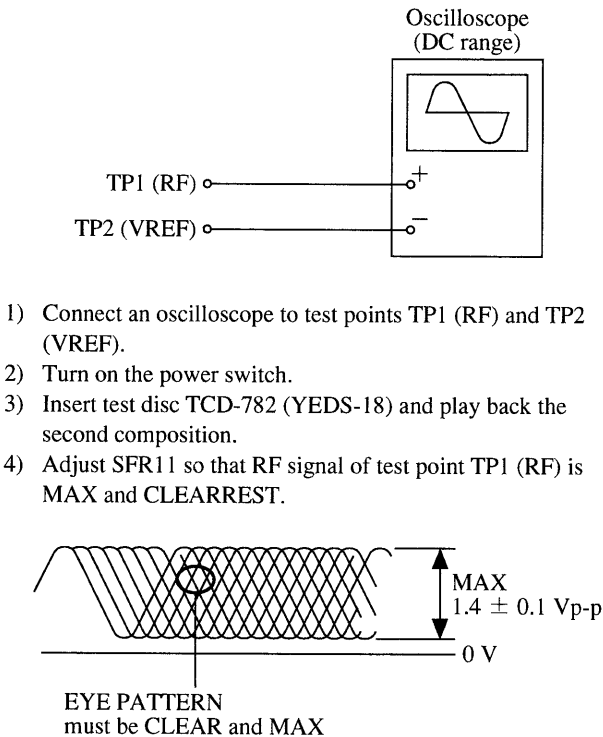
A 3CD C.B



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

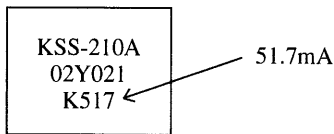
1. Focus Bias Adjustment

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



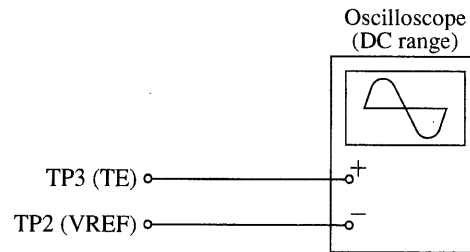
VOLT/DIV : 0.5 V
TIME/DIV : 1 μ S

Note: The current of the laser signal can be checked with the voltages on both sides of R28 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

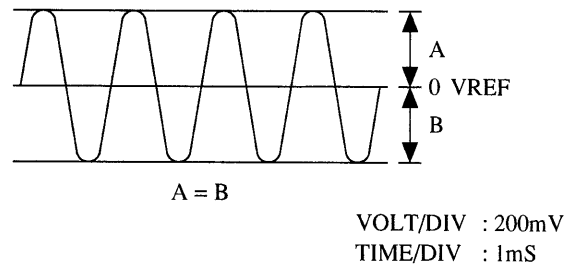


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R28}}{10\Omega}$$

2. Tracking Balance Adjustment



- 1) Connect an oscilloscope to test points TP3 (TE) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 4) Connect the intermediate point of SFR13 to TP2 (VREF).
- 5) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 6) After the adjustment is completed, remove the connected lead wires from the terminals.



3. 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 reciprocate, the adjustment is at the point where both are satisfied.

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

When the gain adjustment is off, the symptoms below appear.

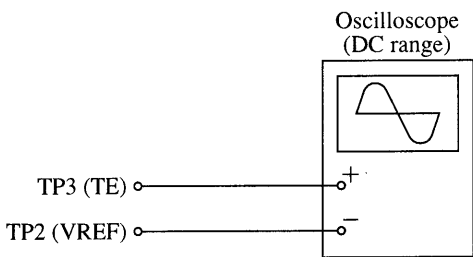
Symptoms \ Gain	(Focus)	Tracking
● The time until music starts becomes longer for STOP→▶PLAY or automatic selection (◀◀, ▶▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP→▶PLAY or automatic selection (◀◀, ▶▶ buttons pressed.)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

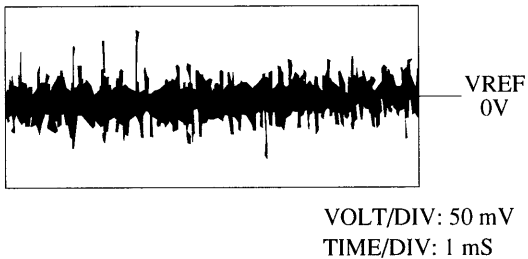
— Simple adjustment —

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

Procedure:



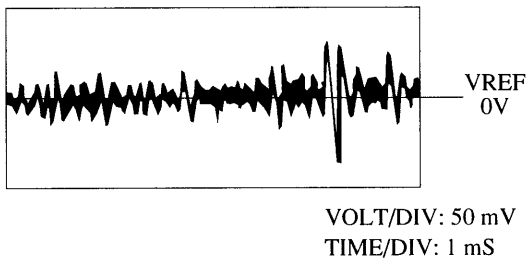
- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP3 (TE), TP2 (VREF) of the CD C.B.
- 4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



● Incorrect example

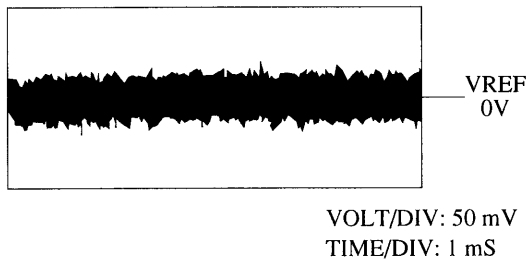
Low tracking gain

The fundamental wave appears as compared with the waveform adjusted.



High tracking gain

The frequency of the fundamental wave is higher than that in low gain.



PRACTICAL SERVICE FIGURE

TUNER SECTION

< FM SECTION >

IHF Sensitivity : 3dB $\pm$ 6dB
(THD 3%) (87.5/98.0/108.0MHz)
S/N 50dB Quieting sensitivity :
31dB $\pm$ 5dB
(87.5/98.0/108.0MHz)
Signal to noise ratio : More than 64dB
(98.0MHz)
Distortion : Less than 1.2 %
(98.0MHz)
Stereo separation : More than 25dB (98.0MHz)
Intermediate frequency : 10.7MHz

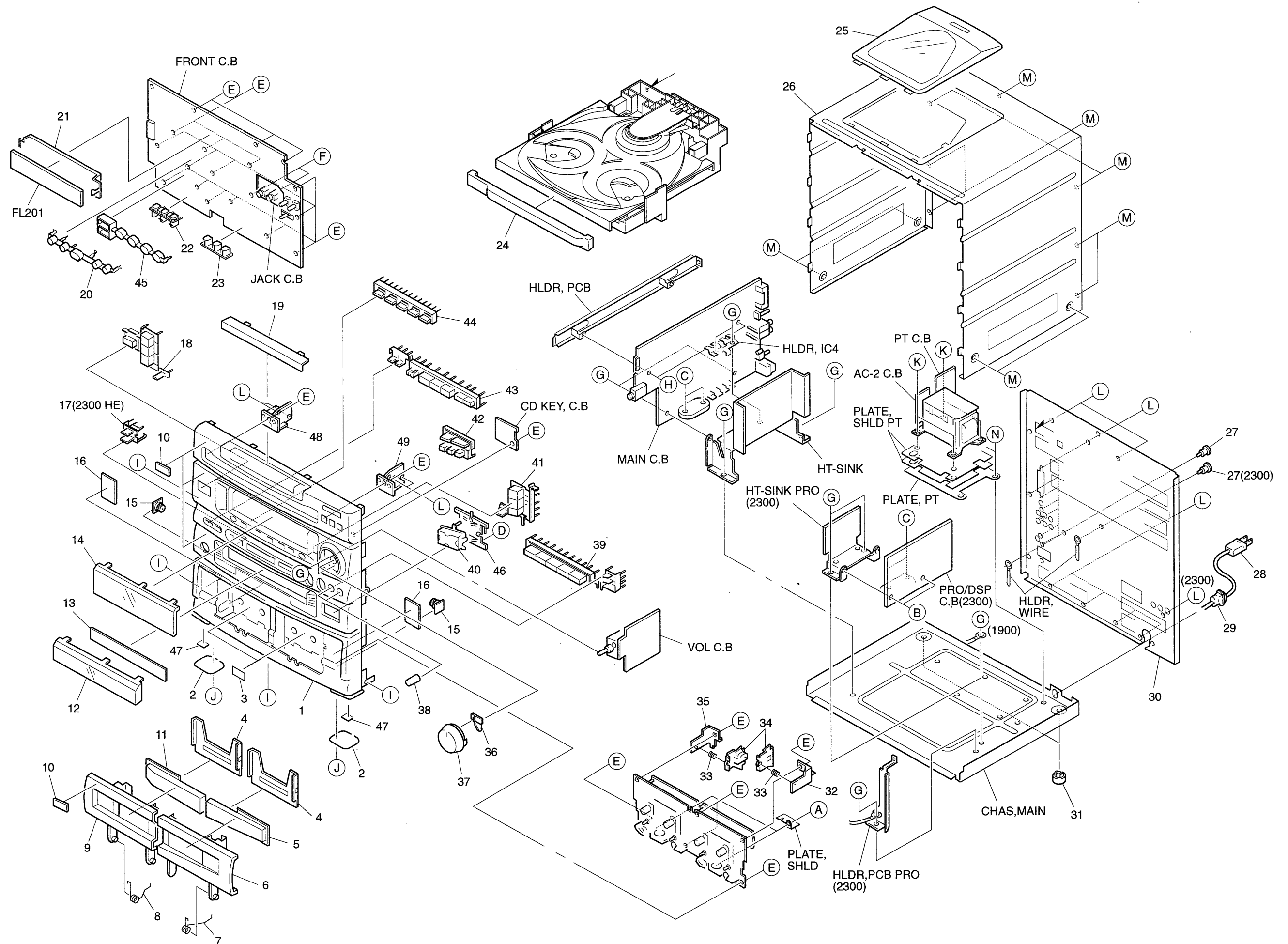
< AM SECTION > (LH/HE)

Sensitivity : 54dB + 8, - 6dB (600/603kHz)
(S/N 20dB) 53dB $\pm$ 6dB (1000/999kHz)
53dB $\pm$ 6dB (1400/1404kHz)
Distortion : Less than 1.5 % (1000/999kHz)
Stereo separation : More than 12dB (1kHz)
Intermediate frequency : 450kHz

DECK SECTION

Tape speed : 3000Hz $\pm$ 1.5 %
Wow & flutter : Less than 0.4 %
(W.R.M.S)
Take-up torque : 40~45g-cm (FWD, REV)
F.F torque : 75~180g-cm
Rew torque : 75~180g-cm
Back tension : 2.0~7.0g-cm
PB Output level (DECK1, 2)
2.8V $\pm$ 1.5dB (SP OUT)
REC/PB Output level : 1.5 $\pm$ 2.0dB (SP OUT)
Distortion (REC/PB) : Less than 2 % (NORM, CrO₂)
Noise level (REC/PB) :
Less than 8mV/15mV
(DOLBY B NR ON/OFF
NORM, SP OUT, Vol 2V)
Less than 7mV/12mV
(DOLBY B NR ON/OFF
CrO₂, SP OUT, Vol 2V)
Crosstalk : More than 60dB (1kHz, 0VU)
Erasing ratio : More than 60dB (125Hz)
Channel separation : More than 40dB (1kHz, 0VU)
REC bias frequency : 85kHz
Test tape : NORMAL TTA - 601/600
CrO₂ TTA - 610
METAL TTA - 630

MECHANICAL EXPLODED VIEW 1/1

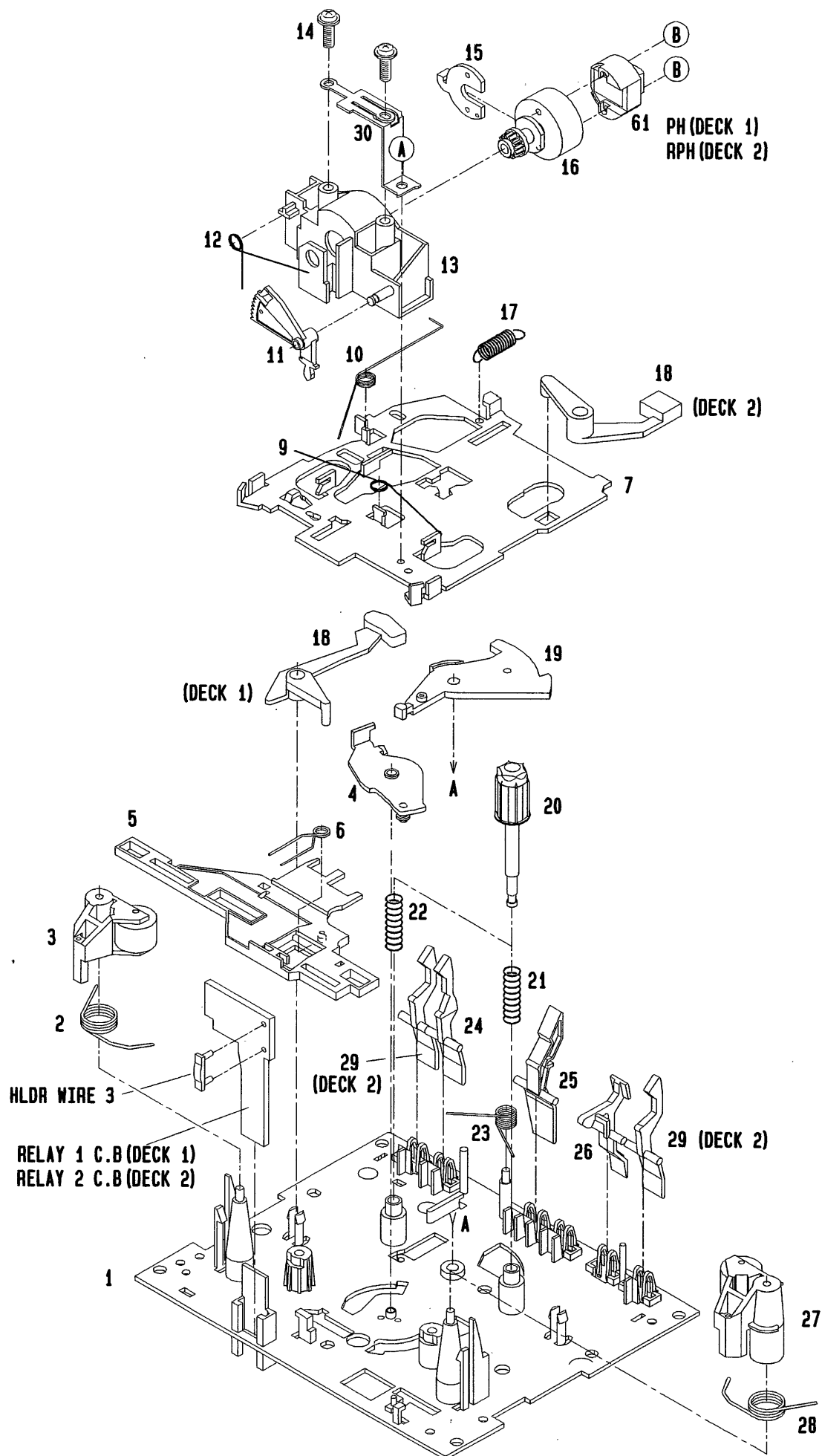


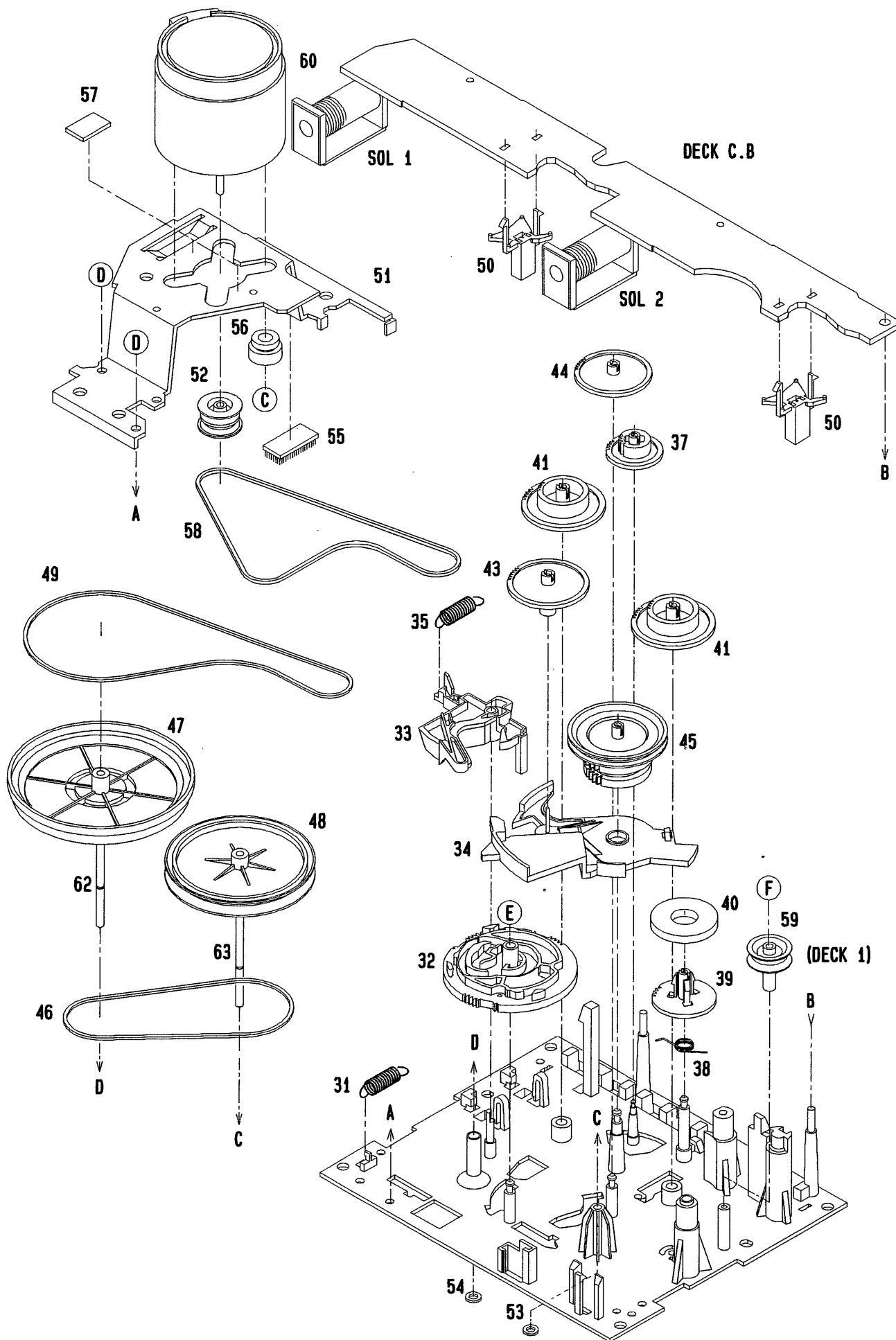
MECHANICAL PARTS LIST 1/1

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

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-MA2-001-019		CAB, FR H(Z1900HE, Z1900LH)	34	82-NF5-229-019		PLATE, LOCK
1	85-MA1-001-019		CAB, FR H(Z2300LH)	35	82-NF5-226-019		HLDR LOCK 1N
1	85-MA1-002-019		CAB, FR H2(Z2300HE)	36	84-MA1-051-019		IND, VOL
2	84-VM5-013-010		RING, FOOT	37	84-MA1-049-019		KNOB, VOL
3	81-532-080-019		LBL, CASS-COMPT	38	81-MX4-019-019		KNOB, MIC
4	85-NF5-026-019		IND, CASS	39	85-MA2-022-019		KEY, GEO
5	85-MA2-030-019		WINDOW, DECK R	40	85-MA2-023-019		KEY, CURSOR
6	85-MA2-015-019		BOX, CASS R	41	85-MA1-014-019		KEY, T-BASS(Z2300HE, Z2300LH)
7	82-NF5-219-019		SPR-T, EJECT 2 (SIN)	41	85-MA2-019-019		KEY, T-BASS(Z1900HE, Z1900LH)
8	82-NF5-218-019		SPR-T, EJECT 1 (SIN)	42	85-MA2-017-019		KEY, DIRECT
9	85-MA2-014-019		BOX, CASS L	43	85-MA2-021-019		KEY, PLAY
10	82-NE8-032-019		BADGE AIWA 27. 5	44	85-MA2-035-019		KEY ASSY, FUN
11	85-MA2-029-019		WINDOW, DECK L	45	85-MA1-201-019		GUIDE, GEO(Z2300HE, Z2300LH)
12	85-MA2-042-019		WINDOW, GEO 2	45	85-MA2-206-019		GUIDE, GEO(Z1900HE, Z1900LH)
13	85-MA2-033-019		PLATE, GEO(Z1900HE, Z1900LH)	46	85-MA2-203-019		HLDR, CURSOR
13	85-MA1-019-019		PLATE, GEO PL(Z2300HE, Z2300LH)	47	83-MA1-203-019		FELT, 15-20-2 LEG
14	85-MA1-021-019		WINDOW, AMP 1(Z2300HE, Z2300LH)	48	85-MA2-201-019		HLDR, CD L
14	85-MA2-041-019		WINDOW, AMP 2(Z1900HE, Z1900LH)	49	85-MA2-202-019		HLDR, CD R
15	87-063-165-019		OIL-DMPR 150	A	87-571-032-419		VIT+2-3
16	80-MK2-206-010		DMPR 27-44. 5-3	B	87-067-633-019		BVT 2+3-8
17	85-MA1-020-019		KEY, CONTROL(Z2300HE)	C	87-067-581-019		BVT2+3-15 W/O SLOT
18	85-MA2-018-019		KEY, POWER	D	87-067-945-119		VFT2+3-12(F10)
19	85-MA2-026-019		WINDOW, CD	E	87-078-060-019		BVIT 3PB+3-10
20	85-MA2-205-019		GUIDE, PLAY	F	81-MK1-210-019		S-SCREW BFT2+3-16
21	82-NF5-212-019		GUIDE FL	G	87-067-579-019		BVT 2+3-8 W/O SLOT
22	85-NF5-210-019		GUIDE, LED L	H	87-078-084-019		BVTT+3-6
23	85-NF5-211-019		GUIDE, LED R	I	87-591-095-419		QIT+3-8
24	85-MA2-032-019		PANEL, TRAY	J	87-067-688-019		BVTT +3-6
25	85-NF5-031-119		WINDOW, TOP	K	87-078-191-019		S-SCREW, IT+4-10
26	85-MA2-043-019		CAB, STEEL(S)	L	87-067-761-019		BVT2+3-10 BLK
△ 27	87-084-077-019		NYLON RIVET DIA 3. 5 - 4. 5	M	87-067-641-019		UTT2+3-8 W/O SLOT BLK
28	87-050-079-019		AC-CORD ASSY, E	N	87-067-586-019		BVTT +4-8
29	87-085-185-010		BUSHING, AC CORD E				
30	85-MA2-006-019		PANEL, REAR HEJBNM(Z1900HE)				
30	85-MA1-006-019		PANEL, REAR HEJBNM(Z2300HE)				
30	85-MA1-007-019		PANEL, REAR LHBNM(Z2300LH)				
30	85-MA2-007-019		PANEL, REAR LHBNM(Z1900LH)				
31	87-085-224-010		FOOT, H17				
32	82-NF5-227-019		HLDR, LOCK 2N				
33	82-NF5-228-019		SPR-C, LOCK				

TAPE MECHANISM EXPLODED VIEW 1/1



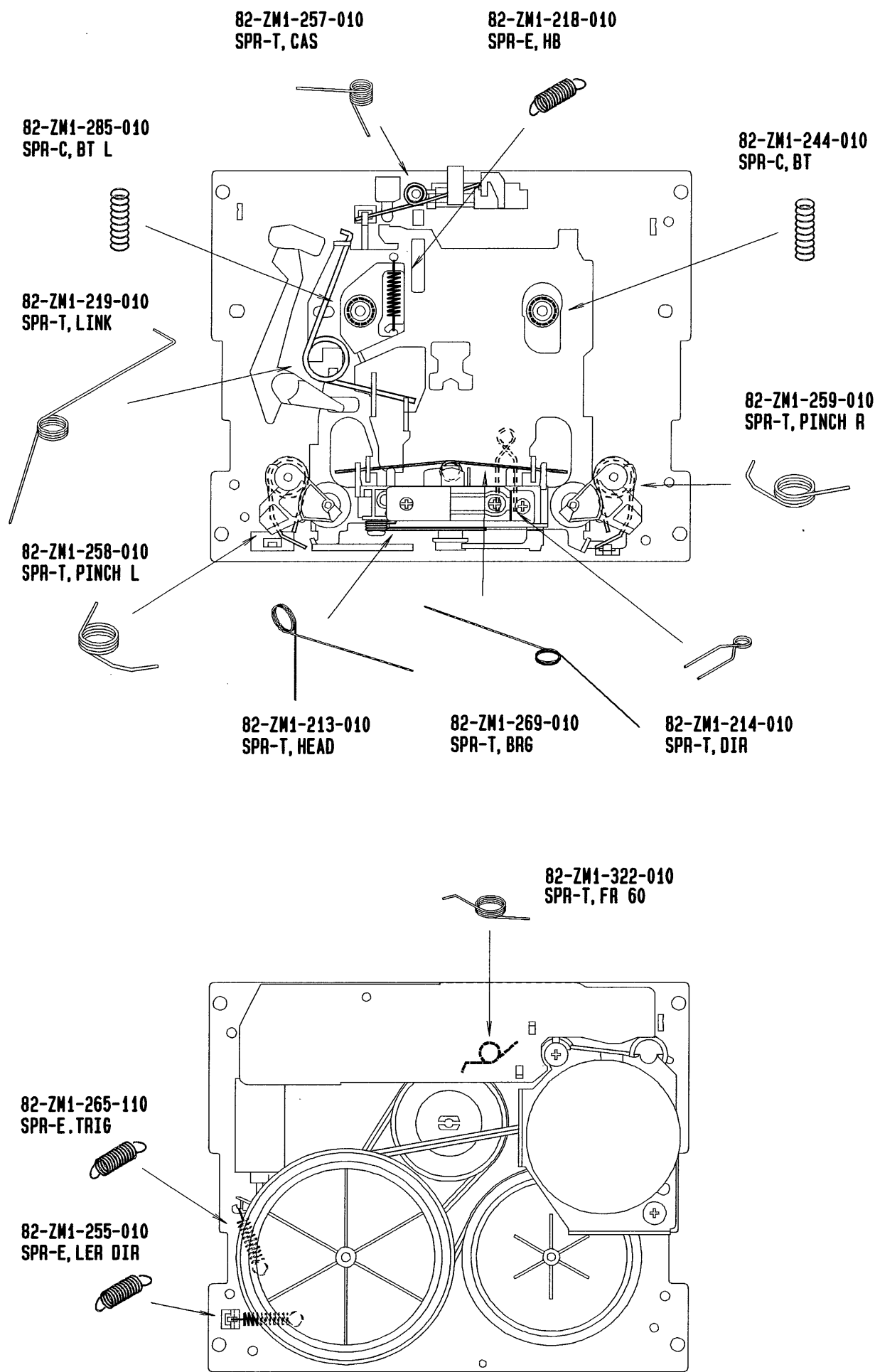


TAPE MECHANISM PARTS LIST 1/1

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

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY, P (DECK 1)	41	82-ZM1-216-210		GEAR, REEL
1	82-ZM1-299-010		CHAS ASSY, R (DECK 2)	43	82-ZM1-225-010		GEAR, FR
2	82-ZM1-258-010		SPR-T, PINCH L	44	82-ZM1-226-010		GEAR, REW
3	82-ZM1-248-110		LVR ASSY, PINCH L	45	82-ZM1-228-210		SLIP DISK ASSY
4	82-ZM1-295-210		PLATE ASSY, LINK	46	82-ZM1-328-010		BELT FR2
5	82-ZM1-266-010		LVR, DIR	47	82-ZM1-238-610		FLY-WHL ASSY, R (DECK 2)
6	82-ZM1-214-010		SPR-T, DIR	47	82-ZM3-210-510		FLY-WHL ASSY, R2 (DECK 1)
7	82-ZM1-206-210		CHAS, HEAD	48	82-ZM1-235-310		FLY-WHL ASSY, L (DECK 2)
9	82-ZM1-269-010		SPR-T, BRG	48	82-ZM3-208-410		FLY-WHL ASSY, L2 (DECK 1)
10	82-ZM1-219-010		SPR-T, LINK	49	82-ZM3-206-010		BELT, R
11	82-ZM1-210-010		GEAR, H T	50	82-ZM1-245-210		HLD, IC
12	82-ZM1-213-010		SPR-T, HEAD	51	82-ZM3-215-010		HLD, MC
13	82-ZM1-207-010		GUIDE, TAPE	52	82-ZM3-202-010		PULLEY, MOT 2M
14	82-ZM1-283-210		S-SCREW, AZIMUTH	53	82-ZM1-288-010		SH, 1. 63-3. 2-0. 5 SLT
15	82-ZM1-314-110		PLATE, HEAD	54	80-ZM6-243-010		SH, 1. 75-3. 6-0. 5 SLT
16	82-ZM1-208-010		HLD, HEAD	55	80-ZM6-230-010		SH, BELT
17	82-ZM1-218-010		SPR-E, HB	56	82-ZM1-308-110		CUSH-G DIA3. 7-9-3. 2
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	57	86-575-361-010		CUSH-G, 6-8-0. 8
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	58	82-ZM3-205-010		BELT, L
19	82-ZM1-222-010		LVR, PLAY	59	82-ZM3-204-010		PULLEY, COUPLER (DECK 1)
20	82-ZM1-217-110		REEL, TABLE	60	87-045-347-010		MOT, SHU2L 70(M1)
21	82-ZM1-244-110		SPR-C, BT	61	87-046-355-010		HEAD, PH HADKH2529B(PH)
22	82-ZM1-285-110		SPR-C, BT L	61	87-046-356-010		HEAD, RPH HADKH5581B(RPH)
23	82-ZM1-257-010		SPR-T, CAS	62	82-ZM1-312-010		CAPSTAN N 2. 2-41. 7
24	82-ZM1-241-110		LVR, MC	63	82-ZM1-313-010		CAPSTAN N 2-41. 5
25	82-ZM1-242-010		LVR, CAS	A	82-ZM1-315-010		S-SCREW, GVIDE TAPE
26	82-ZM1-243-010		LVR, STOP	B	80-ZM6-207-010		V+1. 6-7
27	82-ZM1-253-110		LVR ASSY, PINCH R	C	82-ZM1-309-010		S-SCRW, MOTOR
28	82-ZM1-259-010		SPR-T, PINCH R	D	87-067-178-010		VTT+2. 6-3
29	82-ZM1-240-110		LVR, REC (DECK 2)	E	82-ZM1-597-019		PW, 2. 15-6. 8-0. 4 SLT
30	82-ZM1-298-010		SPR-P, EARTH	F	87-067-972-010		PW, 1. 05-3-0. 25 SLT
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				
35	82-ZM1-265-110		SPR-E, TRIG				
37	82-ZM1-223-010		GEAR, PLAY				
38	82-ZM1-322-019		SPR-T, FR60				
39	82-ZM1-220-210		GEAR, IDLER				
40	82-ZM1-316-010		RING MAGNET 3				

SPRING APPLICATION POSITION

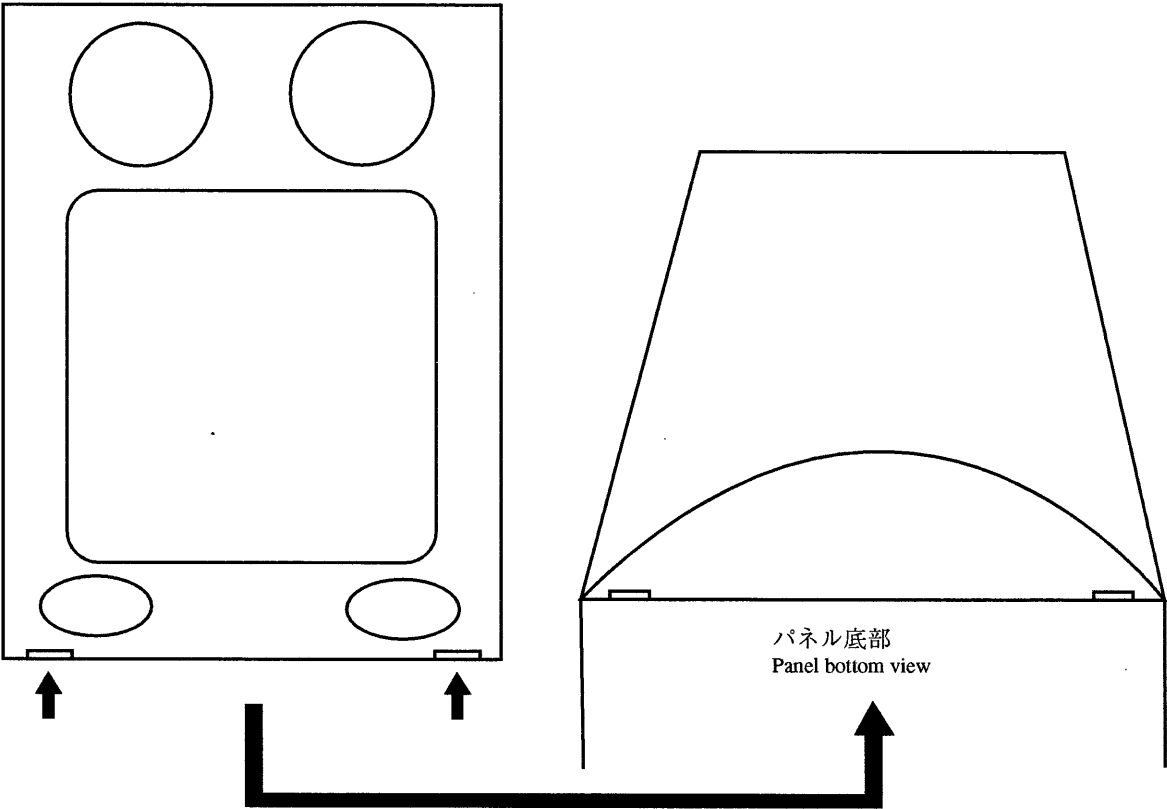


DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.



SPEAKER PARTS LIST

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

REF.NO	PART NO.	カンリ NO.	DESCRIPTION	REF.NO	PART NO.	カンリ NO.	DESCRIPTION
--- SX-Z2300 ---				--- SX-Z1900 ---			
1	85-MS1-014-010		GRILL FRAME ASSY	1	85-MS1-014-010		GRILL FRAME ASSY
2	85-MS1-016-010		PANEL TM ASSY	2	85-MS1-016-010		PANEL TM ASSY
3	85-MS1-001-010		PANEL FR,R	3	85-MS1-001-010		PANEL FR
4	85-MS1-018-010		PANEL FR,L	4	85-MS2-601-010		SPEAKER WOOFER
5	84-VS3-603-010		SPEAKER TWEETER	5	84-VS3-603-010		SPEAKER TWEETER
6	82-VS3-601-010		SPEAKER WOOFER<Y>	6	83-096-614-010		SPEAKER CORD
7	82-MS1-601-010		SPEAKER WOOFER<YL>				
8	83-082-041-010		CORD BUSH				
9	83-096-614-010		SPEAKER CORD				

■ ACCESSORIES / PACKAGE LIST

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

REF.NO	PART NO.	カリ NO.	DESCRIPTION
1	85-MA1-901-019		IB,ESC (M)
2	85-NT3-661-019		RC-T506
3	87-006-225-019		AM LOOP ANT NC2
4	87-043-115-01B		ANT,FEEDER FM
5	87-099-789-019		PLUG,ADPTR IR44

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

サービス技術ニュース	
番 号	連絡内容
G — —	
G — —	
G — —	

アイワ株式会社
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Tokyo Japan