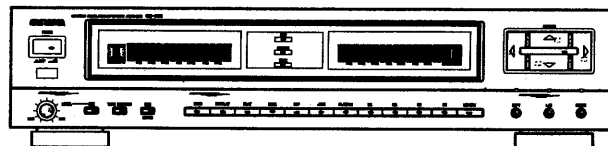


aiwa

GE-950

SERVICE MANUAL



STEREO GRAPHIC EQUALIZER

• TYPE. E,K

SPECIFICATIONS

Input	210 mV (47 kohms)
Output	210 mV (47 kohms)
Graphic equalizer	Center frequencies: 60 Hz, 150 Hz, 350 Hz, 1 kHz, 2.5 kHz, 6 kHz, 15 kHz Level: ± 8 dB, 2 dB step
Spectrum analyzer	Center frequencies: 60 Hz, 150 Hz, 350 Hz, 1 kHz, 2.5 kHz, 6 kHz, 15 kHz
Power requirements	E: 230 V AC, 50 Hz K: 240 V AC, 50 Hz
Power consumption	10 W
Dimensions	430 × 100 × 314 mm (W×H×D)
Weight	3.4 kg

- Design and specifications are subject to change without notice.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は最終ページの“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.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
===IC===			C149	★87-010-405-089	CAP, E 10-50 SME
	87-002-669-010	IC, GP1U571X(REMOTE SENSOR)	C150	★87-010-401-089	CAP, E 1-50 SME
	87-001-530-019	IC, LA3607	C151	★87-010-405-089	CAP, E 10-50 SME
	82-AG1-611-110	IC, LC65204A-4A32	C152	★87-010-405-089	CAP, E 10-50 SME
	87-001-171-019	IC, NJM2068D	C153	★87-010-401-089	CAP, E 1-50 SME
	87-002-429-010	IC, NJU7305L	C154	★87-010-401-089	CAP, E 1-50 SME
	87-001-869-010	IC, XR-1091	C159	★87-010-401-089	CAP, E 1-50 SME
	87-002-218-010	IC, XRC5451AP	C160	★87-010-401-089	CAP, E 1-50 SME
===TRANSISTOR===			C161	★87-010-404-089	CAP, E 4.7-50 SME
	89-109-521-089	TR, 2SA952K	C162	★87-010-404-089	CAP, E 4.7-50 SME
	89-213-702-019	TR, 2SB1370E	C163	★87-018-198-089	CAP, TC-U 2700P-16 X
	87-026-462-089	TR, 2SC1740S(RS)	C164	★87-018-198-089	CAP, TC-U 2700P-16 X
	89-320-011-089	TR, 2SC2001K	C165	★87-018-122-089	CAP, TC-U 180P-50 B
	89-328-785-089	TR, 2SC2878-A(E2-M)	C166	★87-018-122-089	CAP, TC-U 180P-50 B
	89-420-611-219	TR, 2SD2061E F	C169	★87-010-400-089	CAP, E 0.47-50 SME
	87-026-269-089	TR, DTA114ES	C170	★87-010-400-089	CAP, E 0.47-50 SME
	87-026-245-089	TR, DTC114ES	C171	★87-010-404-089	CAP, E 4.7-50 SME
===DIODE===			C172	★87-010-404-089	CAP, E 4.7-50 SME
	87-020-465-089	DIODE, 1SS133	C173	★87-010-404-089	CAP, E 4.7-50 SME
	87-027-365-089	DIODE, S5277B	C175	★87-010-404-089	CAP, E 4.7-50 SME
	87-027-286-089	ZENER, HZ5C1	C176	★87-010-404-089	CAP, E 4.7-50 SME
	87-027-475-089	ZENER, HZ6B1	C177	★87-010-404-089	CAP, E 4.7-50 SME
	87-027-399-089	ZENER, HZ7A3L	C178	★87-010-404-089	CAP, E 4.7-50 SME
	87-027-364-089	ZENER, HZ12A3L	C179	★87-018-119-089	CAP, TC-U 100P-50 B
	87-027-760-019	ZENER, HZ30-3	C180	★87-018-119-089	CAP, TC-U 100P-50 B
===MAIN CIRCUIT BAORD SECTION===			C181	★87-010-260-089	CAP, E 47-25 SME
C105	★87-010-404-089	CAP, E 4.7-50 SME	C182	★87-010-260-089	CAP, E 47-25 SME
C106	★87-010-404-089	CAP, E 4.7-50 SME	C183	★87-010-404-089	CAP, E 4.7-50 SME
C107	★87-010-404-089	CAP, E 4.7-50 SME	C184	★87-010-404-089	CAP, E 4.7-50 SME
C108	★87-010-404-089	CAP, E 4.7-50 SME	C185	★87-018-127-089	CAP, TC-U 470P-50 B
C109	★87-010-404-089	CAP, E 4.7-50 SME	C186	★87-018-127-089	CAP, TC-U 470P-50 B
C110	★87-010-404-089	CAP, E 4.7-50 SME	C191	★87-010-260-089	CAP, E 47-25 SME
C111	★87-018-119-089	CAP, TC-U 100P-50 B	C192	★87-010-260-089	CAP, E 47-25 SME
C112	★87-018-119-089	CAP, TC-U 100P-50 B	C201	★87-010-388-089	CAP, E 1000-25V SME
C113	★87-010-404-089	CAP, E 4.7-50 SME	C202	★87-010-388-089	CAP, E 1000-25V SME
C114	★87-010-404-089	CAP, E 4.7-50 SME	C203	★87-010-247-089	CAP, E 100-50 SME
C115	★87-018-130-089	CAP, TC-U 820P-50 B	C204	★87-010-247-089	CAP, E 100-50 SME
C116	★87-018-130-089	CAP, TC-U 820P-50 B	C205	★87-010-126-089	CAP, E 470-50
C117	★87-018-197-089	CAP, TC-U 1800P-16 X	C206	★87-010-263-089	CAP, E 100-10
C118	★87-018-197-089	CAP, TC-U 1800P-16 X	C207	★87-010-384-089	CAP, E 100-25 SME
C119	★87-018-197-089	CAP, TC-U 1800P-16 X	C208	★87-010-384-089	CAP, E 100-25 SME
C120	★87-018-197-089	CAP, TC-U 1800P-16 X	C209	★87-010-384-089	CAP, E 100-25 SME
C121	★87-018-133-089	CAP, TC-U 4700P-16 X	C210	★87-010-384-089	CAP, E 100-25 SME
C122	★87-018-133-089	CAP, TC-U 4700P-16 X	C212	★87-010-263-089	CAP, E 100-10
C123	★87-018-133-089	CAP, TC-U 4700P-16 X	C213	★87-010-263-089	CAP, E 100-10
C124	★87-018-133-089	CAP, TC-U 4700P-16 X	C214	★87-010-263-089	CAP, E 100-10
C127	★87-018-134-089	CAP, TC-U 0.01-16 Y	C215	★87-010-401-089	CAP, E 1-50 SME
C128	★87-018-134-089	CAP, TC-U 0.01-16 Y	C216	★87-010-382-089	CAP, E 22-25 SME
C137	★87-010-545-089	CAP, E 0.22-50 SME	C218	★87-010-401-089	CAP, E 1-50 SME
C138	★87-010-545-089	CAP, E 0.22-50 SME	C219	★87-010-405-089	CAP, E 10-50 SME
C139	★87-010-545-089	CAP, E 0.22-50 SME	C220	★87-010-385-089	CAP, E 220-25 SME
C140	★87-010-545-089	CAP, E 0.22-50 SME	C221	★87-010-263-089	CAP, E 100-10
C141	★87-010-400-089	CAP, E 0.47-50 SME	C222	★87-010-263-089	CAP, E 100-10
C142	★87-010-400-089	CAP, E 0.47-50 SME	△R203	87-029-102-019	FUSE, RES 47-1/4W FM
C143	★87-018-134-089	CAP, TC-U 0.01-16 Y	△R208	87-029-102-019	FUSE, RES 47-1/4W FM
C144	★87-018-134-089	CAP, TC-U 0.01-16 Y	△R212	87-029-017-019	FUSE, RES 10-1/4W FM
C145	★87-010-402-089	CAP, E 2.2-50 SME	△R216	87-029-102-019	FUSE, RES 47-1/4W FM
C146	★87-010-402-089	CAP, E 2.2-50 SME	△R220	87-029-102-019	FUSE, RES 47-1/4W FM
C147	★87-018-121-089	CAP, TC-U 150P-50 B	R241	★87-025-469-080	RES NF2.2-1/4WJ
C148	★87-018-121-089	CAP, TC-U 150P-50 B	R242	★87-025-469-080	RES NF2.2-1/4WJ
			S101A	82-AG1-608-010	SW, PUSH 2-4-6(TAPE MONITOR)
			S101B	+ + +	SW, PUSH 2-4-6(BBE ON/OFF)

REF. NO. PART NO. DESCRIPTION

===FRONT CIRCUIT BOARD SECTION===

C301 ★87-010-405-089 CAP, E 10-50 SME
 C302 ★87-010-405-089 CAP, E 10-50 SME
 C303 ★87-010-405-089 CAP, E 10-50 SME
 C304 ★87-016-042-010 CAP, O. 047F-5. 5Z FYL

C305 ★87-010-401-089 CAP, E 1-50 SME
 C306 ★87-018-131-089 CAP, TC-U 1000P-50 B
 C307 ★87-018-134-089 CAP, TC-U 0. 01-16 Y
 C308 ★87-018-134-089 CAP, TC-U 0. 01-16 Y

C309 ★87-010-405-089 CAP, E 10-50 SME
 C310 ★87-018-131-089 CAP, TC-U 1000P-50 B
 C311 ★87-018-134-089 CAP, TC-U 0. 01-16 Y
 C312 ★87-010-263-089 CAP, E 100-10

C313 ★87-010-263-089 CAP, E 100-10
 C314 ★87-018-119-089 CAP, TC-U 100P-50 B
 C315 ★87-018-195-089 CAP, TC-U 1200P-16 X
 C316 ★87-018-119-089 CAP, TC-U 100P-50 B

C317 ★87-018-195-089 CAP, TC-U 1200P-16 X
 C318 ★87-010-263-089 CAP, E 100-10
 C319 ★87-010-263-089 CAP, E 100-10
 C320 ★87-018-123-089 CAP, TC-U 0. 01-16 Y

C321 ★87-018-131-089 CAP, TC-U 1000P-50 B
 CF301 ★89-MX1-704-089 CERA LOCK (MU) 3. 9MHZ
 CF302 ★89-MX1-704-089 CERA LOCK (MU) 3. 9MHZ
 FL301 ★82-AG1-602-010 FL, BJ 106GK (DISPLAY)

FL302 ★82-AG1-602-010 FL, BJ 106GK (DISPLAY)
 LED301 87-001-123-089 LED SLZ 981C-02TI (TAPE)
 LED302 87-001-124-089 LED SLZ 381C-02-T1 (BBE)
 LED303 87-001-123-089 LED SLZ 981C-02TI (SOURCE)

S301 87-036-259-088 SW, TACT SKHVBB (GEQ OFF/ON)
 S302 87-036-259-088 SW, TACT SKHVBB (DEMO)
 S303 87-036-259-088 SW, TACT SKHVBB (DISPLAY)
 S304 87-036-259-088 SW, TACT SKHVBB (FLAT)

S305 87-036-259-088 SW, TACT SKHVBB (ROCK)
 S306 87-036-259-088 SW, TACT SKHVBB (POP)
 S307 87-036-259-088 SW, TACT SKHVBB (JAZZ)
 S308 87-036-259-088 SW, TACT SKHVBB (CLASSIC)

S309 87-036-259-088 SW, TACT SKHVBB (M1)
 S310 87-036-259-088 SW, TACT SKHVBB (M2)
 S311 87-036-259-088 SW, TACT SKHVBB (M3)
 S312 87-036-259-088 SW, TACT SKHVBB (M4)

S313 87-036-259-088 SW, TACT SKHVBB (MEMORY)
 VR301 ★82-AG1-610-010 VOL, 5K (B) (BBE LEVEL)

===SWITCH CIRCUIT BOARD SECTION===

LED304 87-001-123-089 LED SLZ 981C-02TI (L+R)
 LED305 87-001-123-089 LED SLZ 981C-02TI (LEFT)
 LED306 87-001-123-089 LED SLZ 981C-02TI (RIGHT)
 S314 87-036-259-088 SW, TACT SKHVBB (▲ UP)

S315 87-036-259-088 SW, TACT SKHVBB (▼ DOWN)
 S316 87-036-259-088 SW, TACT SKHVBB (◀ F DOWN)
 S317 87-036-259-088 SW, TACT SKHVBB (▶ F UP)
 S318 87-036-259-088 SW, TACT SKHVBB (LEFT)

S319 87-036-259-088 SW, TACT SKHVBB (L+R)
 S320 87-036-259-088 SW, TACT SKHVBB (RIGHT)

REF. NO. PART NO. DESCRIPTION

===PIN JACK CIRCUIT BOARD SECTION===

C101 ★87-018-127-089 CAP, TC-U 470P-50 B
 C102 ★87-018-127-089 CAP, TC-U 470P-50 B
 C103 ★87-018-127-089 CAP, TC-U 470P-50 B
 C104 ★87-018-127-089 CAP, TC-U 470P-50 B

C187 ★87-018-123-089 CAP, TC-U 220P-50 B
 C188 ★87-018-123-089 CAP, TC-U 220P-50 B
 C189 ★87-018-123-089 CAP, TC-U 220P-50 B
 C190 ★87-018-123-089 CAP, TC-U 220P-50 B

J101 ★87-009-391-019 JACK PIN 4P (TAPE)
 J102 ★87-009-394-019 JACK PIN 4P EARTH (LINE)

===POWER CIRCUIT BOARD SECTION===

△C217 ★87-019-112-019 CAP, SG 0. 01 E
 △PT201 82-AG1-620-018 POWER TRANSFORMER, E (E)
 △PT201 82-AG1-619-019 POWER TRANSFORMER, K (K)
 △S201 87-036-015-019 AC SW SDDL01 (POWER)

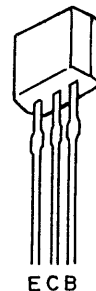
===MISCELLANEOUS===

△ 87-050-016-018 AC CORD ASSY, E (E)
 △ 87-034-592-018 AC CORD (BS) (K)
 △ 87-085-185-010 BUSHING, AC CORD E

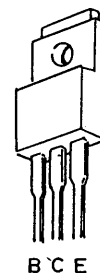
TRANSISTOR ILLUSTRATION



E C B



E C B



B C E

2SA952	2SC1740	2SB1370
2SC2001	DTA114	2SD2061
2SC2878	DTC114	

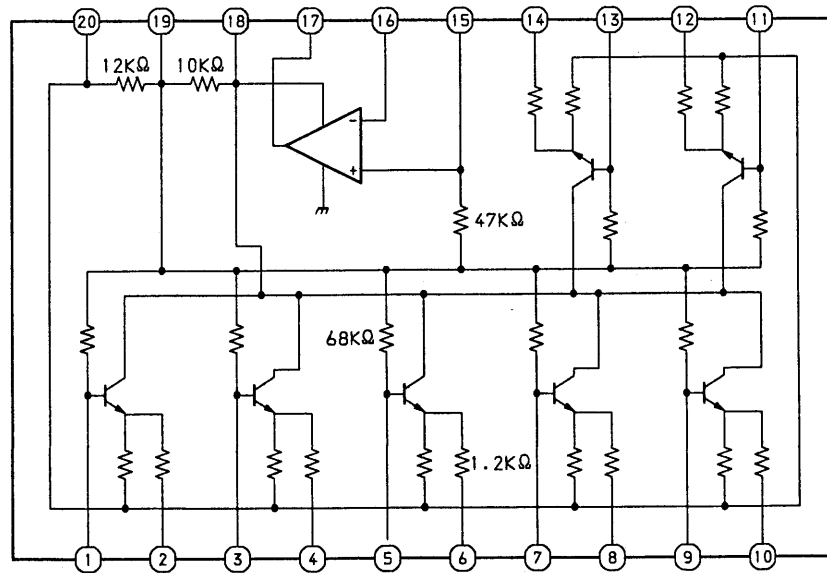
■ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は最終ページの“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”.

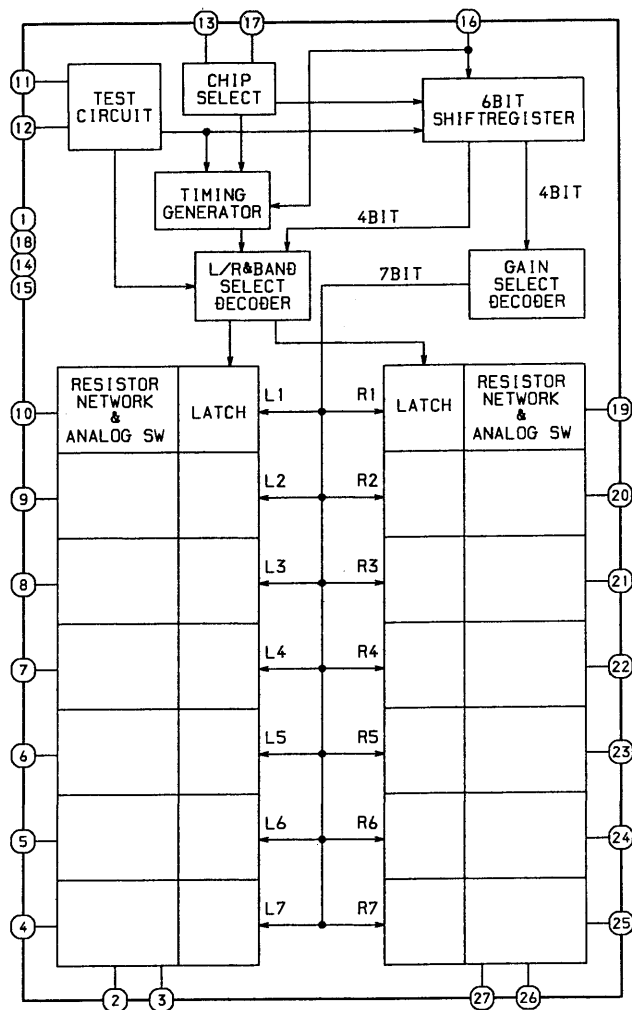
PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-AG1-901-018	INSTRUCTION BOOKLET, EK (G)	※	1
	2	★87-034-786-019	CORD PIN 189-0760		2

IC BLOCK DIAGRAM

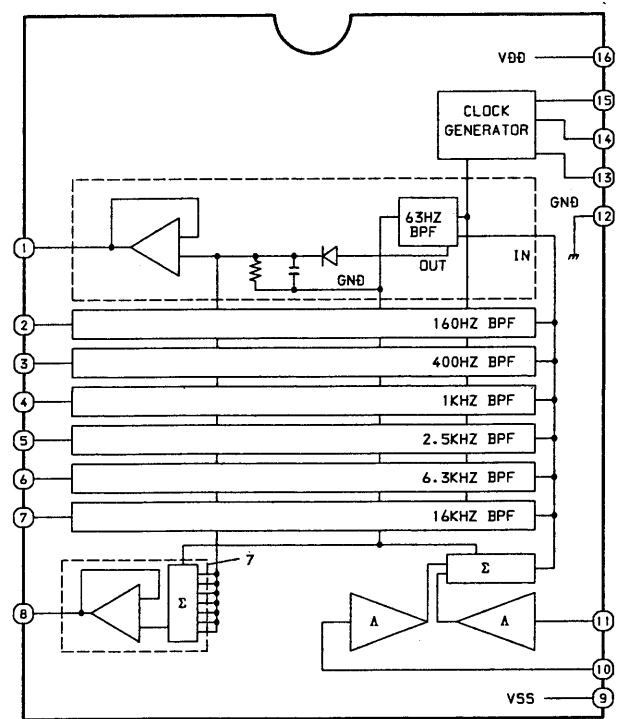
IC,LA3607



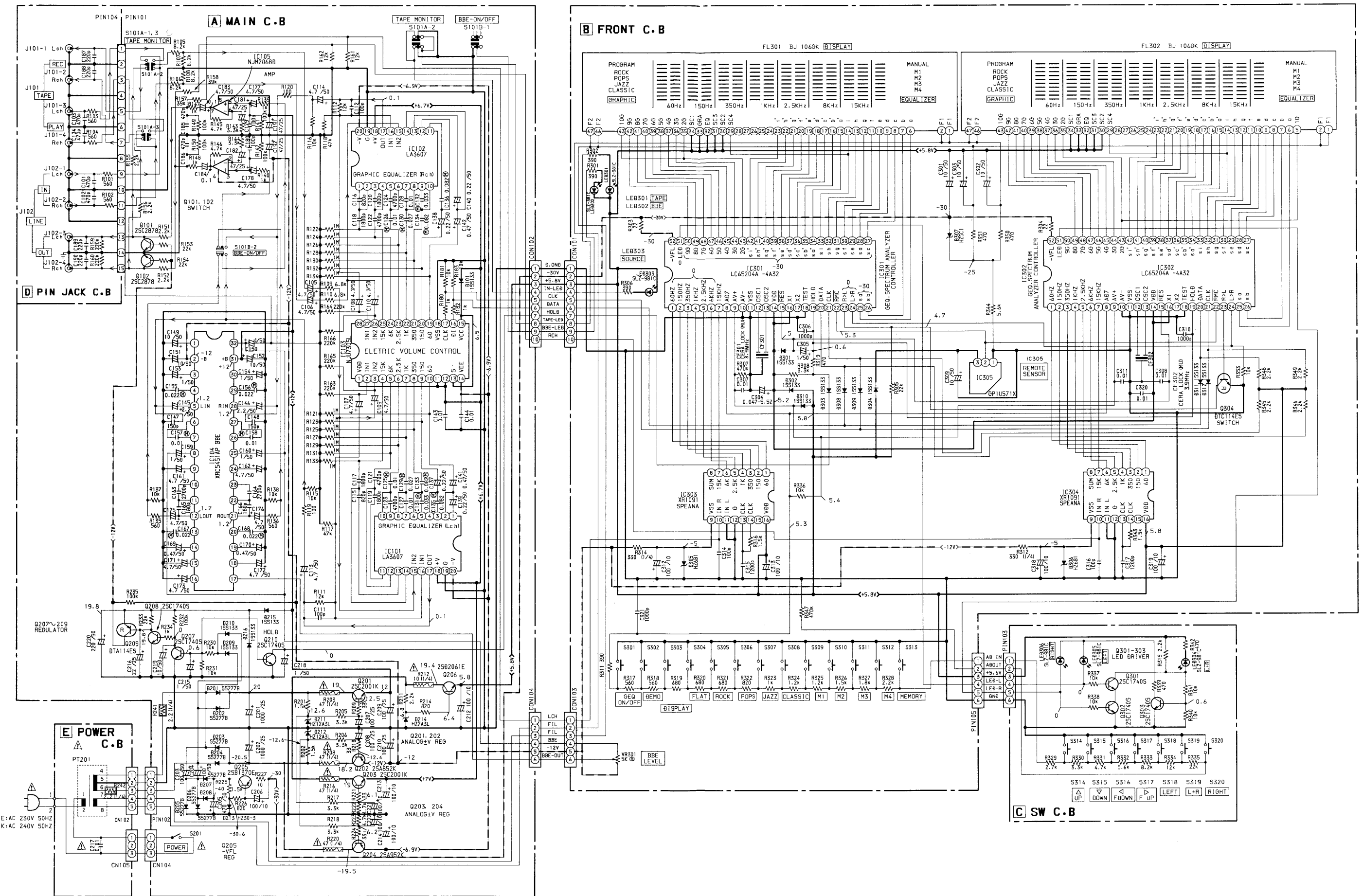
IC,NJU7305L

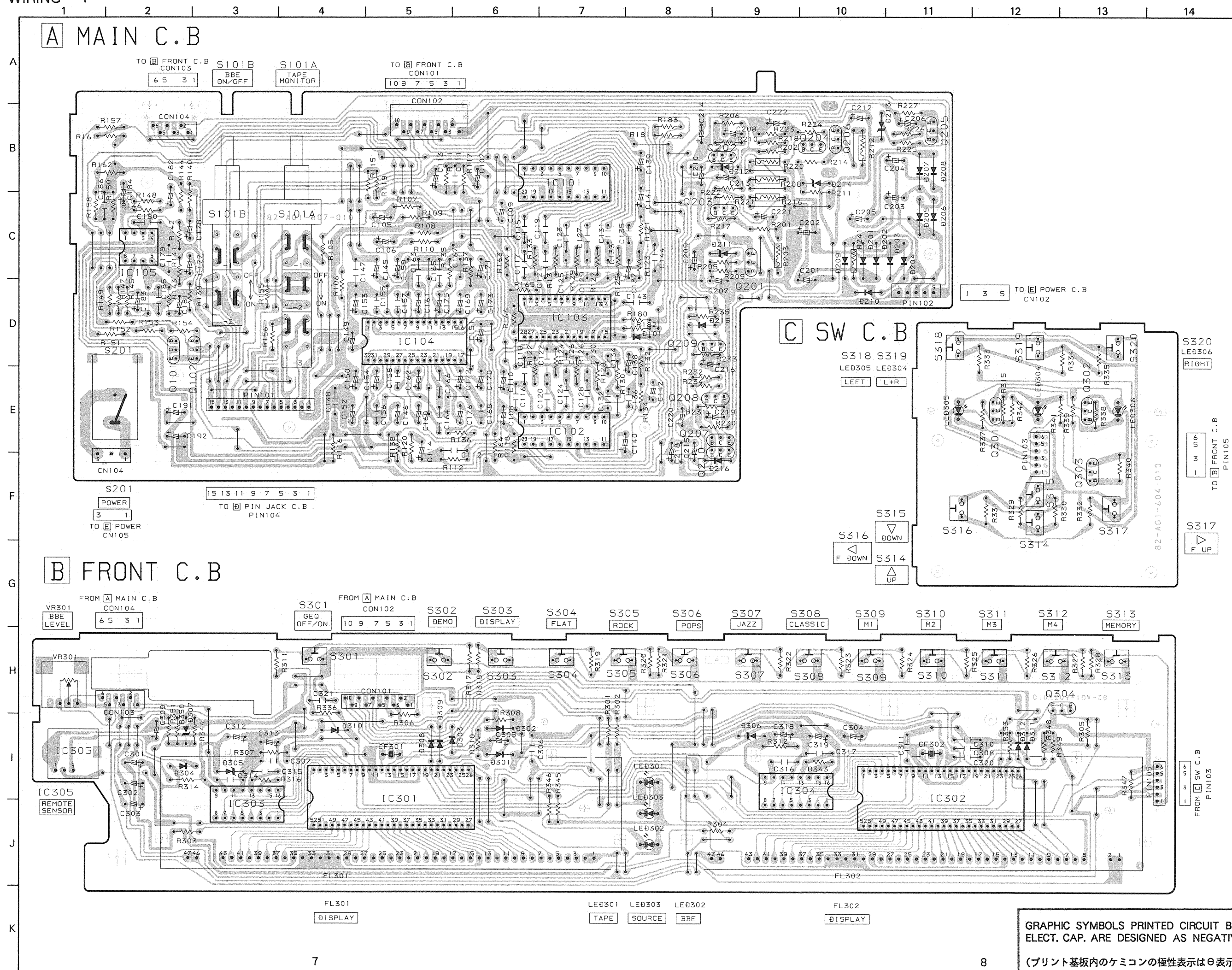


IC,XR1091



SCHEMATIC DIAGRAM

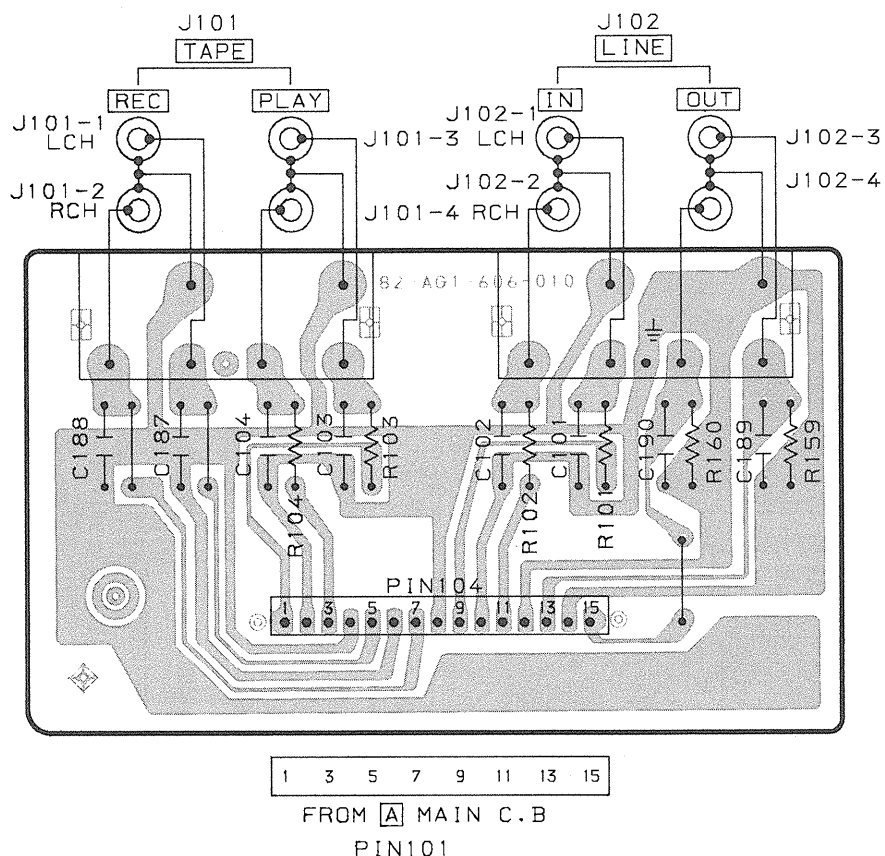




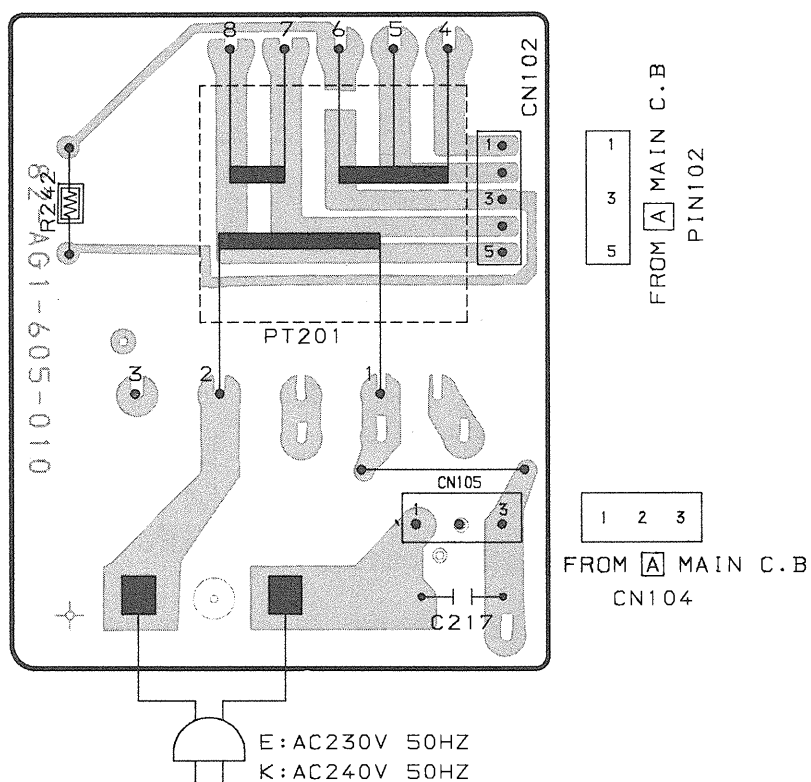
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

D PIN JACK C.B

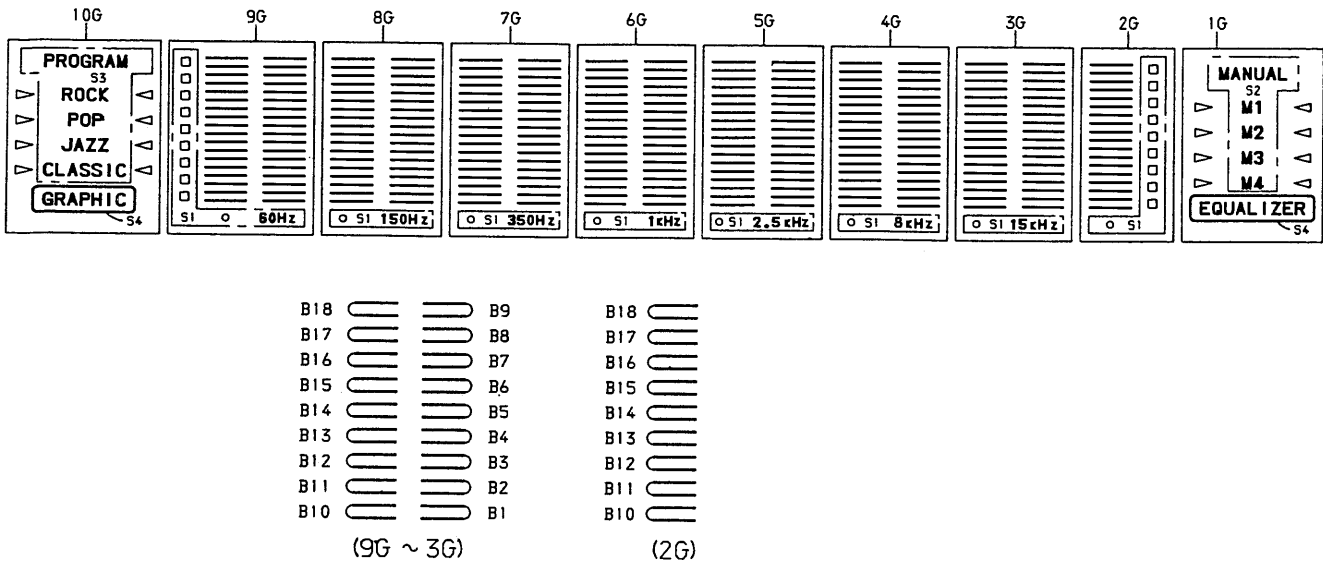


E POWER C.B



FL301, 302

GRID ASSIGNMENT



ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	▷ (CLASSIC) ◁	B1	B1	B1	B1	B1	B1	B1	—	—
P2	▷ (JAZZ) ◁	B2	B2	B2	B2	B2	B2	B2	—	—
P3	▷ (POP) ◁	B3	B3	B3	B3	B3	B3	B3	—	—
P4	▷ (ROCK) ◁	B4	B4	B4	B4	B4	B4	B4	—	—
P5	—	B5	B5	B5	B5	B5	B5	B5	—	▷ (M4) ◁
P6	—	B6	B6	B6	B6	B6	B6	B6	—	▷ (M3) ◁
P7	—	B7	B7	B7	B7	B7	B7	B7	—	▷ (M2) ◁
P8	—	B8	B8	B8	B8	B8	B8	B8	—	▷ (M1) ◁
P9	—	B9	B9	B9	B9	B9	B9	B9	—	—
P10	—	B10	B10	B10	B10	B10	B10	B10	B10	—
P11	—	B11	B11	B11	B11	B11	B11	B11	B11	—
P12	—	B12	B12	B12	B12	B12	B12	B12	B12	—
P13	—	B13	B13	B13	B13	B13	B13	B13	B13	—
P14	—	B14	B14	B14	B14	B14	B14	B14	B14	—
P15	—	B15	B15	B15	B15	B15	B15	B15	B15	—
P16	—	B16	B16	B16	B16	B16	B16	B16	B16	—
P17	—	B17	B17	B17	B17	B17	B17	B17	B17	—
P18	—	B18	B18	B18	B18	B18	B18	B18	B18	—
P19	S4	—	—	—	—	—	—	—	—	S4
P20	—	—	—	—	—	—	—	—	—	S2
P21	S3	—	—	—	—	—	—	—	—	—
P22	—	—	—	—	—	—	—	—	—	EQUALIZER
P23	GRAPHIC	—	—	—	—	—	—	—	—	—
P24	—	S1	S1	S1	S1	S1	S1	S1	S1	—

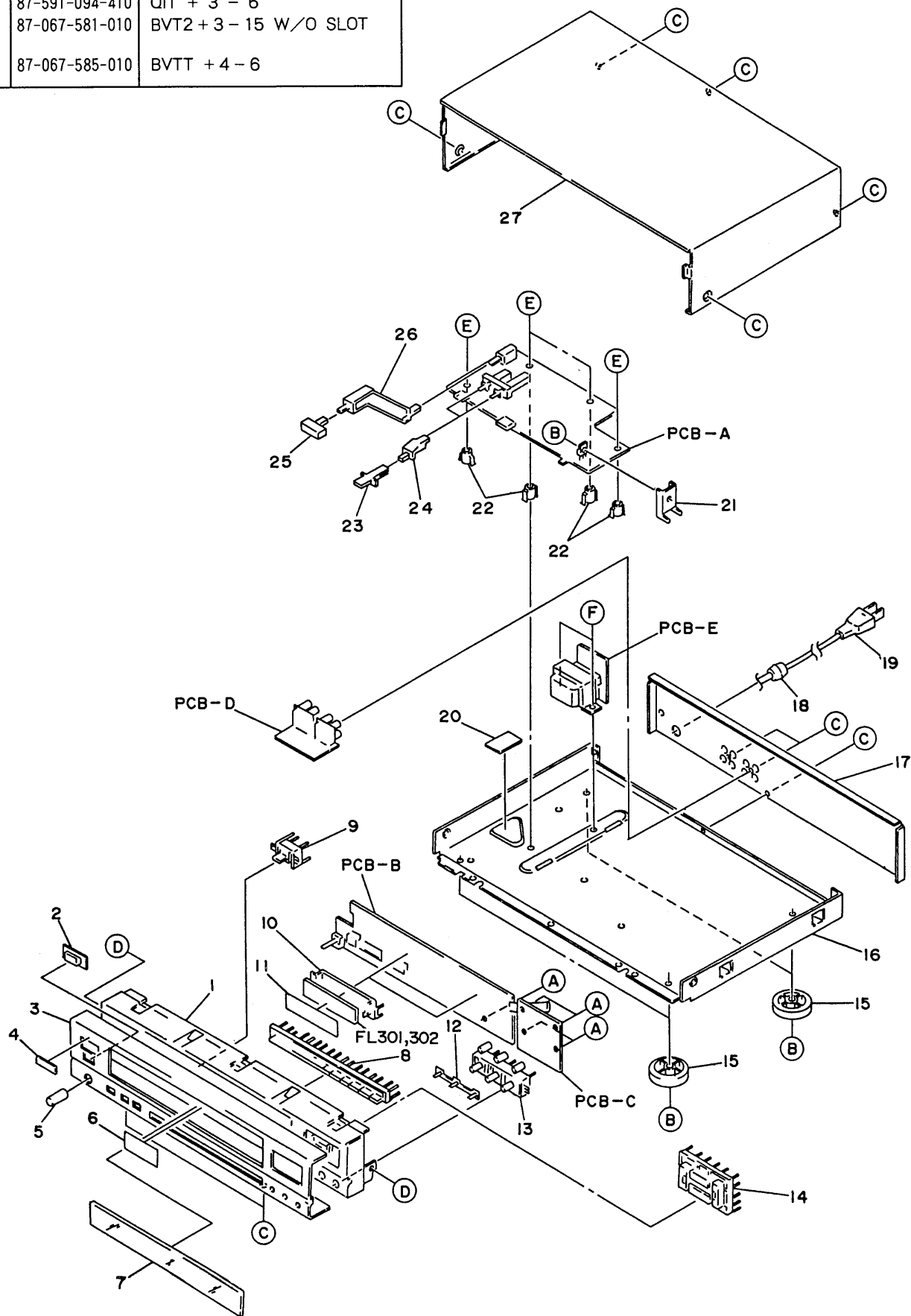
IC, DESCRIPTION

IC, LC65204A – 4A32

Pin No.	Pin Name	I/O	Description																
1 2 3 4 5 6 7	60Hz 150Hz 350Hz 1kHz 2.5kHz 6kHz 15kHz	I	Spectrum analyzer control input terminal.																
8	AD7	I	The input terminal which A/D converts the input voltages of the 20 keys(S301 to S320), and reads them.																
9	AV+	I	A/D converter reference voltage(positive).																
10	AV-	I	A/D converter reference voltage(negative).																
11	VSS	—	GND.																
12 13	OSC1 OSC2	— —	3.9MHz oscillation circuit.																
14	VDD	—	Power supply.																
15	RES	I	Reset input.																
16	X1	—	It is connected to VDD.																
17	X2	—	Not used.																
18	TEST	—	It is connected to GND.																
19	HOLD	I	Hold input. H:Back up. L:Normal.																
20	DATA	O	Serial data for the shift register GEQ IC.																
21	CLK	O	Serial data clock signal for the shift register GEQ IC.																
22	RMC	I	Remote control input terminal.																
23	R>L	I/O	At the initial setting, decides to use Lch or Rch from the input of Lch:High and Rch:Low. After that, communicates from Rch to Lch.																
24	L>R	I/O	At the initial setting, decides to use Lch or Rch from the input of Lch:High and Rch:Low. After that, communicates from Lch to Rch.																
25 33	Sa Si	O	FL display segment output.																
34 42	Sa' Si'	O	FL display segment output.																
43 50	2G 9G	O	FL display grid scan output.																
51	LED	O	LED drive output. <table border="1"> <thead> <tr> <th colspan="2">Lch</th> <th colspan="2">Rch</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>High</td> <td>L</td> <td>Low</td> </tr> <tr> <td>R</td> <td>Low</td> <td>R</td> <td>High</td> </tr> <tr> <td>L+R</td> <td>High</td> <td>L+R</td> <td>High</td> </tr> </tbody> </table>	Lch		Rch		L	High	L	Low	R	Low	R	High	L+R	High	L+R	High
Lch		Rch																	
L	High	L	Low																
R	Low	R	High																
L+R	High	L+R	High																
52	-VFL	I	FL display power(negative).																

EXPLODED VIEW

REF. NO.	PART NO.	DESCRIPTION
A	87-067-703-010	BVT2 + 3 - 10 W/O SLOT
B	87-067-579-010	BVT 2 + 3 - 8 W/O SLOT
C	87-067-660-010	BVT2 + 3 - 8 W/O SLOT (B)
D	87-591-094-410	QIT + 3 - 6
E	87-067-581-010	BVT2 + 3 - 15 W/O SLOT
F	87-067-585-010	BVTT + 4 - 6



MECHANICAL PARTS LIST

DESCRIPTIONで判断できない物は最終ページの“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”.

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★82-AG1-001-019	CAB, FR	※	1
	2	★82-AA1-020-019	WINDOW, RC		1
	3	★82-AG1-002-010	PANEL, FR	※	1
	4	★81-DS1-011-019	BADGE, AIWA N		1
	5	★82-AG1-013-019	KNOB, BBE	※	1
	6	★82-AG1-016-019	SH, DISP	※	1
	7	★82-AG1-006-210	WINDOW, DISPLAY	※	1
	8	★82-AG1-010-019	KEY, MEMORY	※	1
	9	★82-AG1-009-019	KEY, GE	※	1
	10	★81-DS2-204-119	GUIDE, FL		2
	11	★82-AG1-015-019	SH FL	※	2
	12	★82-AG1-007-019	IND, L - R	※	1
	13	★82-AG1-011-019	KEY, L - R	※	1
	14	★82-AG1-012-019	KEY, CURSOR	※	1
	15	★82-AA1-029-010	FOOT		4
	16	---	CHAS, MAIN		1
	17	★82-AG1-005-019	PANEL, REAR (E)	※	1
	17	★82-AG1-003-019	PANEL, REAR (EE)	※	1
	17	★82-AG1-018-019	PANEL, REAR (K)	※	1
	18	★87-085-185-010	BUSHING, AC CORD		1
	19	★87-050-016-018	AC CORD (E)		1
	19	★87-034-592-018	AC CORD (K)		1
	20	★82-AG1-203-019	SH, PVC 34.7 - 50 - 0.5	※	1
	21	---	HT - SINK, 20DG/W		1
	22	---	HOLDER, PCB		4
	23	★82-AG1-008-019	BTN, BBE	※	2
	24	★82-AG1-201-019	ROD, BBE	※	2
	25	★82-AA1-016-019	BTN, POWER		1
	26	★82-AG1-202-019	ROD, POWER	※	1
	27	★89-AT1-035-018	CAB, MAIN STEEL		1

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-DIODE	DIODE, CHIP
C-FET	FET, 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
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
ECM	ECM
FLTR	FILTER
FUSE RES	RES, FUSE
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージアブレッサ	SERGESUPPRESSOR
セラコン	CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BAT, CONTACT ASSY	BATTERY CONTACT ASSY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
BTN, BBE	BUTTON, BBE
BTN, OPEN	BUTTON, OPEN
BTN, POWER	BUTTON, POWER
CAB	CABINET
CAB, FR	CABINET, FRONT
CAB, REAR	CABINET, REAR
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CUSH	CUSHION
DIR	DIRECTION
FR	FRONT
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HLDR, ARM	HOLDER, ARM
HLDR, ASSY	HOLDER, ASSY
HLDR, JACK	HOLDER, JACK
HLDR, SW	HOLDER, SWITCH
HLDR, TACT	HOLDER, TACT
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KNOB, SL	KNOB, SLIDE
KNOB, VOL REV	KNOB, VOLUME REV
LBL	LABEL
LBL, CAUTION	LABEL, CAUTION
LBL, SW	LABEL, SWITCH
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
RBN	RIBBON
S-	SPECIAL
SH	SHEET
SH, CHAS	SHEET, CHASSIS
SH, DISP	SHEET, DISPLAY
SH, PCB	SHEET, PCB
SHLD-SH	SHILD-SHEET
SL	SLIDE
SP	SPRING
SP, SCREW BAT	SPECIAL SCREW BATTERY
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-P ASSY OPEN	P-SPRING OPEN ASSY
SPR-P, LOCK	P-SPRING, LOCK
SPR-PC-PUSH	P-SPRING, C-PUSH
SW	SWITCH
T-SP	T-SPRING
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジクアーム	ARM, SHAFT
ジクガイド	GUIDE, SHAFT
ストラップ	STRAP