

ICD-BP150/BP350

SERVICE MANUAL

Ver 1.1 2005.08



PHOTO : ICD-BP150

US Model
Canadian Model
AEP Model
UK Model
E Model
ICD-BP150
Tourist Model
ICD-BP350

SPECIFICATIONS

Recording media	Built-in flash memory, Monaural recording
Recording time	SP: 127 minutes, LP: 339 minutes (BP150) SP: 552 minutes, LP: 1,393 minutes (BP350)
Frequency response	SP: 250 Hz - 7,300 Hz LP: 300 Hz - 3,500 Hz
Speaker	approx. 3.2 cm (1 ⁵ / ₁₆ in.) dia.
Power output	300 mW
Input/Output	<ul style="list-style-type: none">• Earphone jack (minijack) for 16 - 300 ohms earphone/headphones• Microphone jack (minijack, monaural) Plug in power Minimum input level 0.6 mV 3 kilohms or lower impedance microphone
Playback speed control	FAST +30%, SLOW -15%
Power requirements	Two LR03 (size AAA) alkaline batteries: 3 V DC
Dimensions (w/h/d) (not incl. projecting parts and controls)	44.5 × 105.3 × 14.0 mm (1 ¹³ / ₁₆ × 4 ¹ / ₄ × ⁹ / ₁₆ in.)
Mass (incl. batteries)	79 g (2.79 oz)
Supplied accessories	Earphone × 1 Carrying case × 1 LR03 (size AAA) alkaline battery × 2 (U.S.A. model only) USB Connecting cable × 1 "Digital Voice Editor" (CD-ROM) × 1 Registration card × 1 (U.S.A. and Canadian models only)

Design and specifications are subject to change without notice.

IC RECORDER

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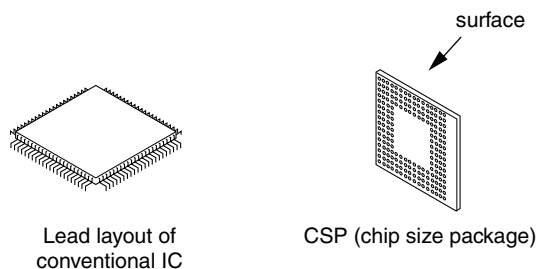
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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.
- * Replacement of IC109 used in this set requires a special tool.
- The voltage and waveform of CSP (chip size package) cannot be measured, because its lead layout is different from that of conventional IC.
- Lead layouts



Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

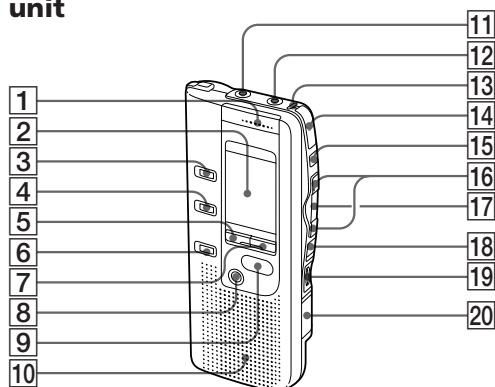
Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SECTION 1 GENERAL

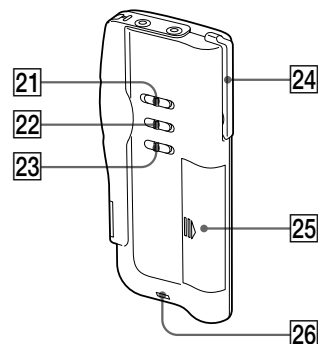
This section is extracted from instruction manual.

Main unit



- | | |
|--|---|
| 1 MIC (built-in microphone) (12) | 14 ●REC (record) /STOP button (13, 24) |
| 2 Display window (64) | 15 ■ PAUSE button (13, 17) |
| 3 FOLDER button (12, 16) | 16 ◀◀REVIEW/▶▶CUE (fast backward, review/fast forward, cue•selection of menu mode) button (10, 16, 18, 19, 22, 26, 30, 32, 35, 40, 41) |
| 4 INDEX/BOOKMARK button (22, 26) | 17 ▶■PLAY/STOP •EXECUTE (play/stop•enter) button (10, 17, 18, 29, 30, 32, 35, 40, 41) |
| 5 DISPLAY button (39) | 18 HOLD switch (38) |
| 6 A-B REPEAT/PRIORITY button (23, 30) | 19 VOL (volume) control (17) |
| 7 MENU button (10, 32, 35, 40, 41) | 20 USB connector for connecting to a computer (48) |
| 8 ERASE button (20) | |
| 9 ■STOP button (13, 17) | |
| 10 Speaker | |
| 11 MIC (PLUG IN POWER) jack (15) | |
| 12 EAR (earphone) jack (14, 17) | |
| 13 OPR (operation) indicator (12, 17) | |

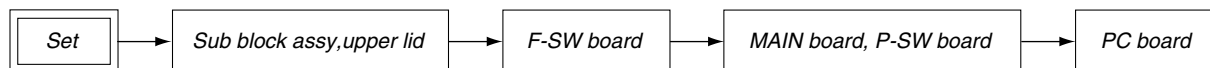
Rear



- | | |
|---|---|
| 21 PLAY SPEED selector (18) | 24 Clip* |
| 22 MIC SENS (microphone sensitivity) selector (14) | 25 Battery compartment (8) |
| 23 VOR selector (15) | 26 Hook for handstrap (not supplied) |

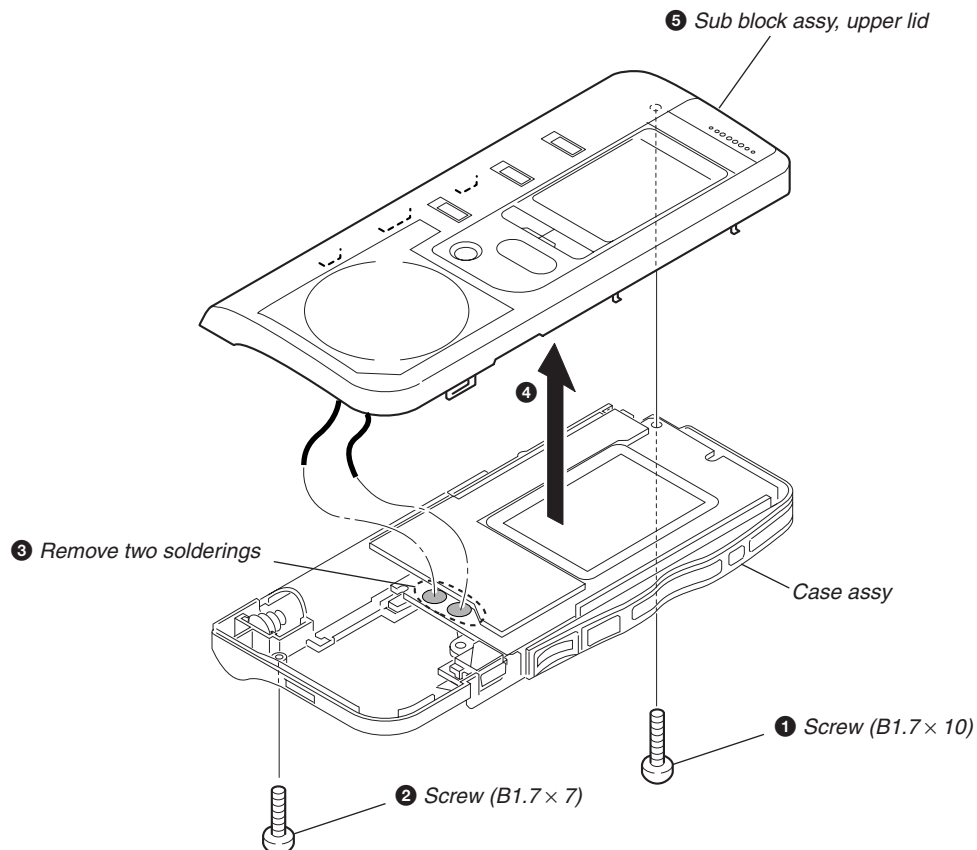
SECTION 2 DISASSEMBLY

Note : Disassemble the unit in the order as shown below.

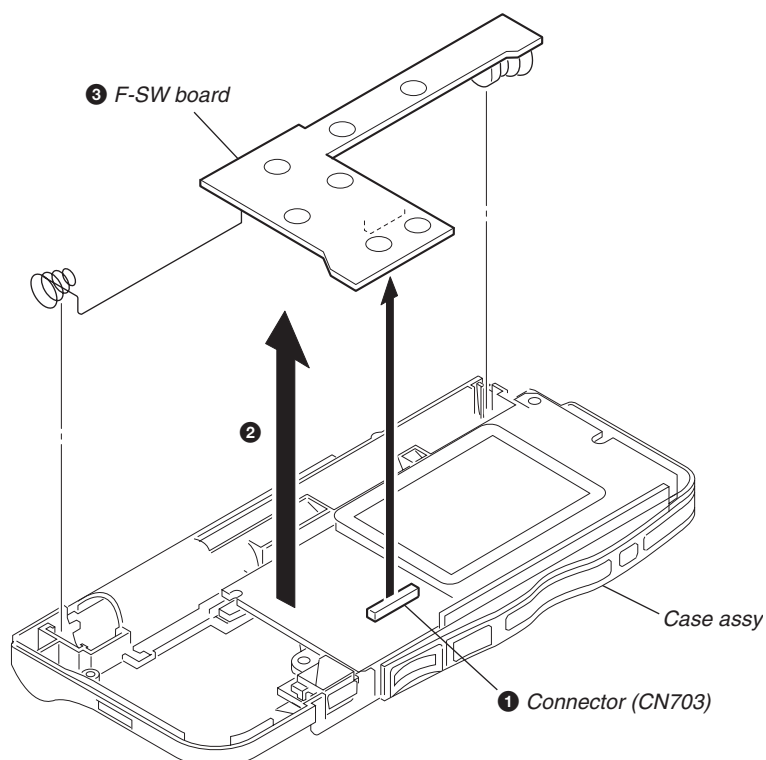


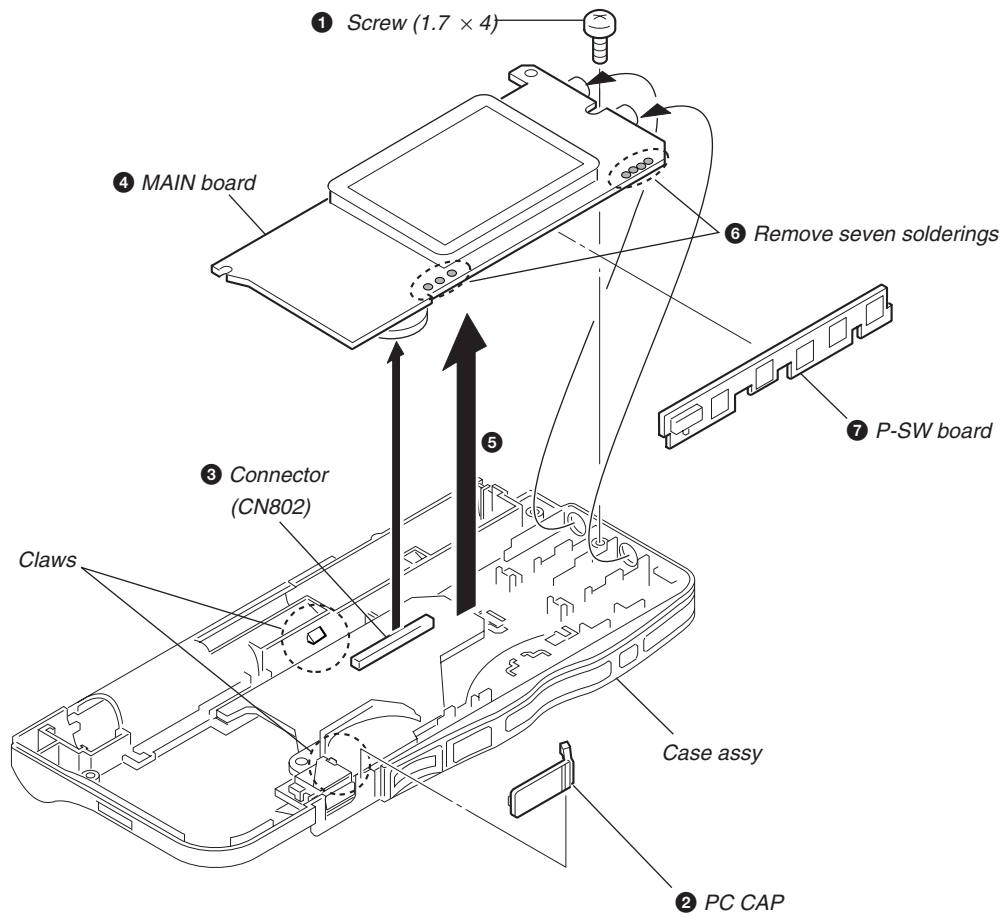
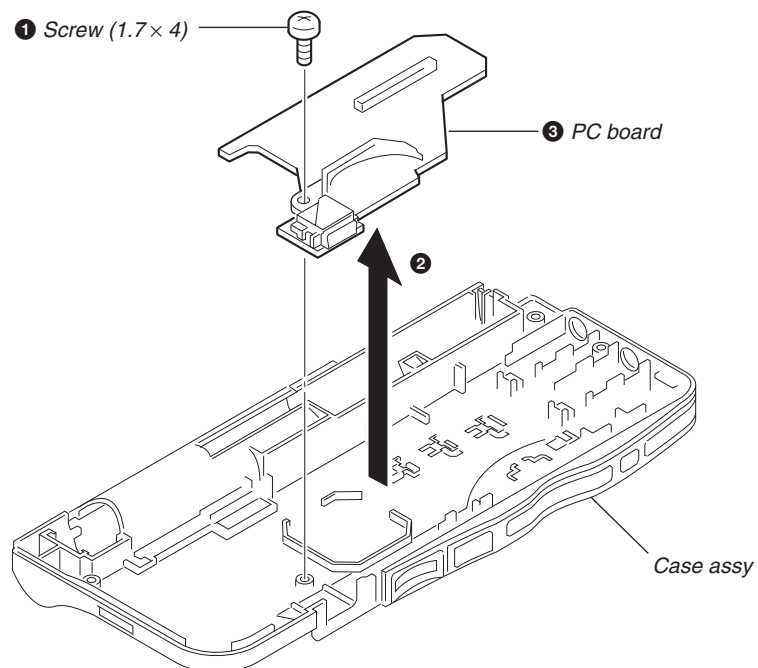
Note : Follow the disassembly procedure in the numerical order given.

2-1. Sub Block Assy, Upper Lid



2-2. F-SW Board



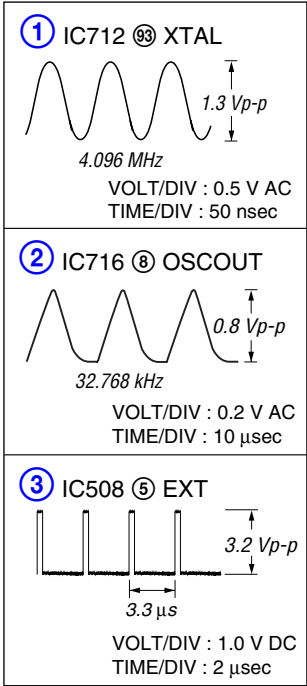
2-3. MAIN Board, P-SW Board**2-4. PC Board**

SECTION 3
DIAGRAMS

Note on Schematic Diagrams:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{ W}$ or less unless otherwise specified.
- Δ : internal component.
- : panel designation.
- — : B+ Line.
- Power voltage is dc 3V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : REC
() : PB
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
>> : PB
>> : REC
- * Replacement of IC109 used in this set requires a special tool.
- The voltage and waveform of CSP (chip size package) cannot be measured, because its lead layout is different from that of conventional IC.

• WAVEFORMS



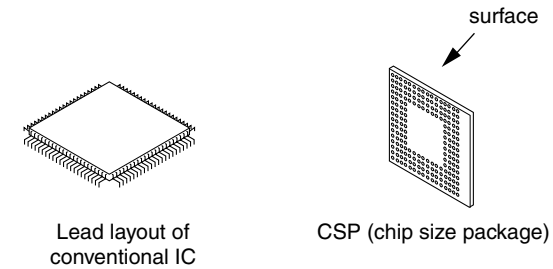
Note on Printed Wiring Boards:

- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.

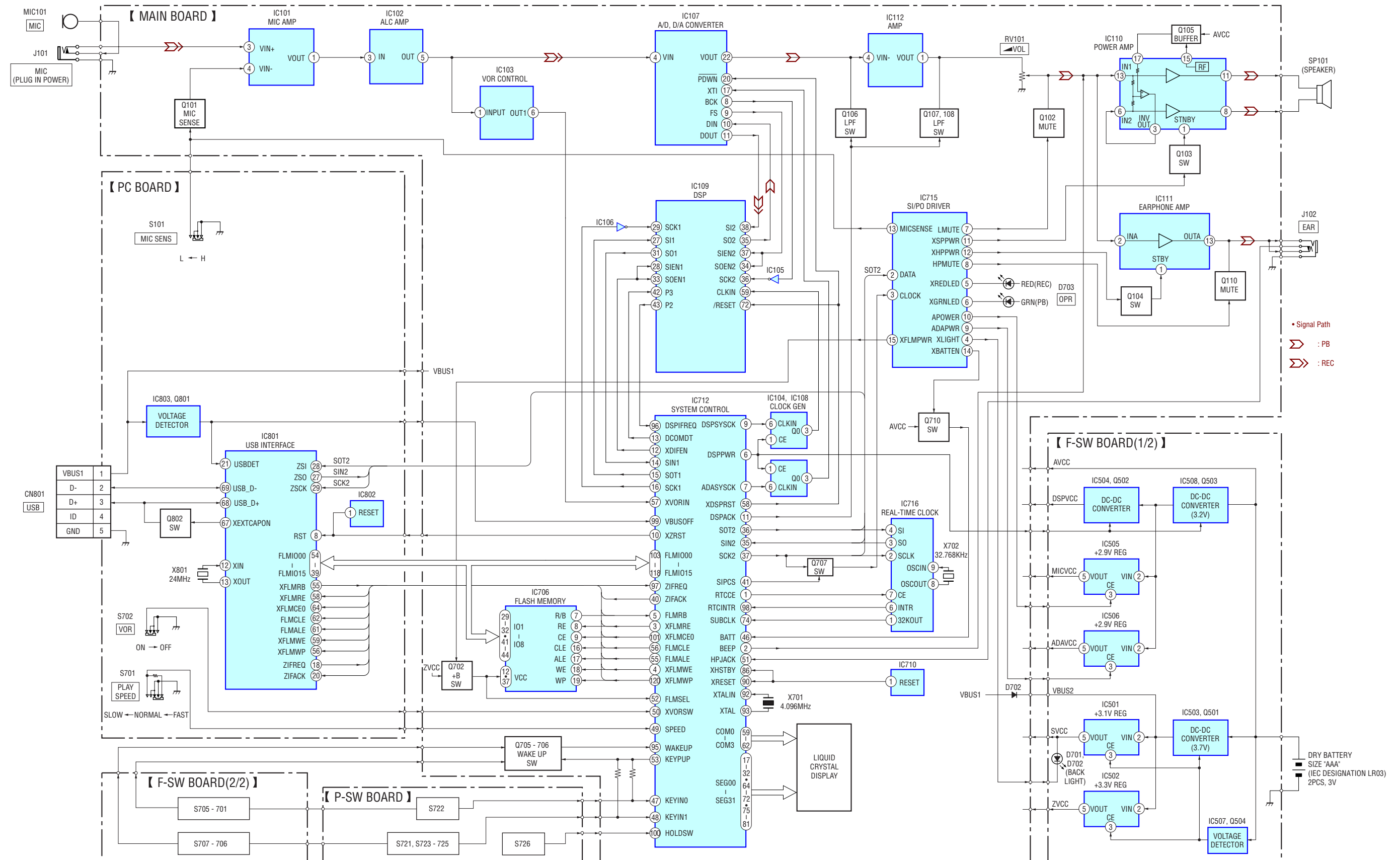
Caution:	
Pattern face side:	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side:	Parts on the parts face side seen from the parts face are indicated.

* Replacement of IC109 used in this set requires a special tool.

- Lead layouts




3-1. Block Diagram

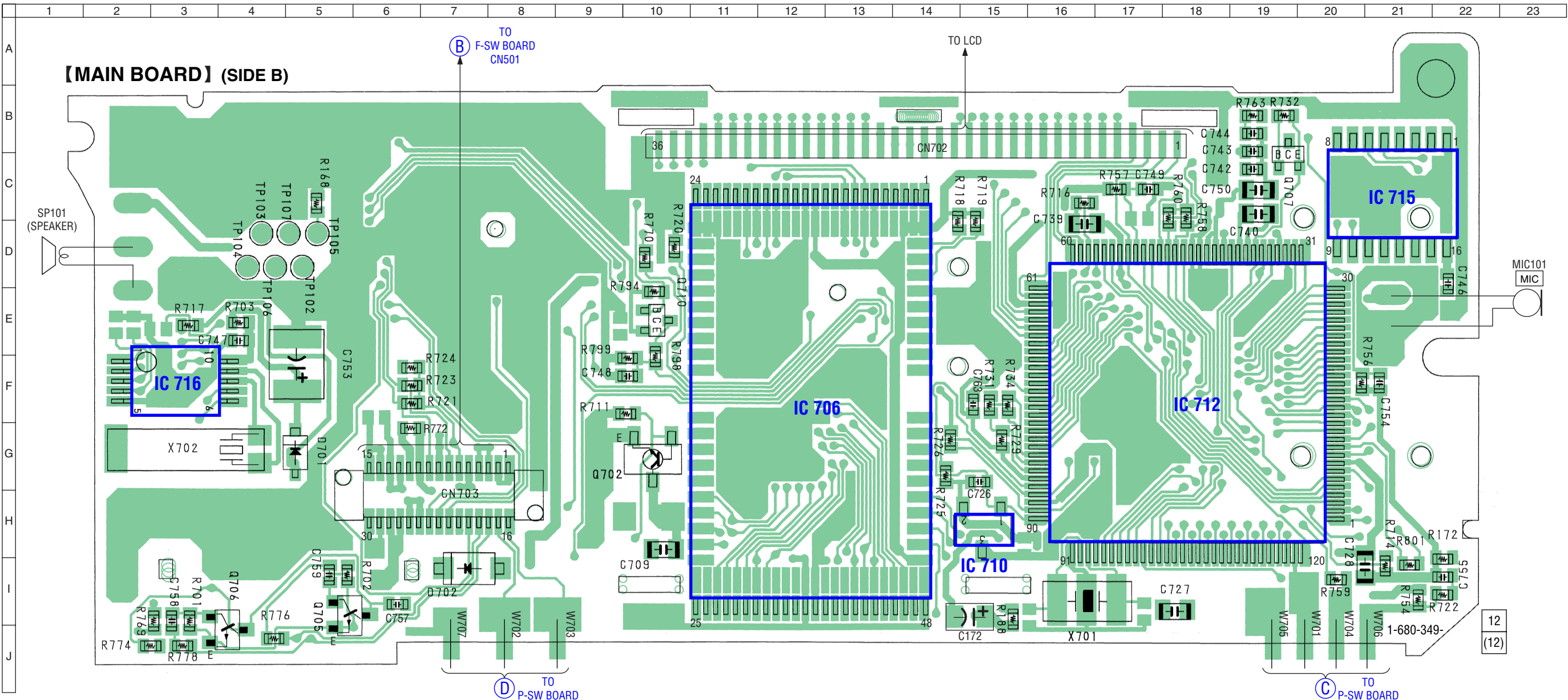


- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D703	I-2	Q101	E-8
IC101	F-6	Q102	C-20
IC102	F-8	Q103	C-18
IC103	D-7	Q104	C-19
IC104	G-11	Q105	C-16
IC105	I-6	Q106	H-11
IC106	I-12	Q107	F-21
IC107	H-8	Q108	F-21
IC108	I-9	Q110	G-21
IC109	G-12		
IC110	G-16		
IC111	D-21		
IC112	I-11		

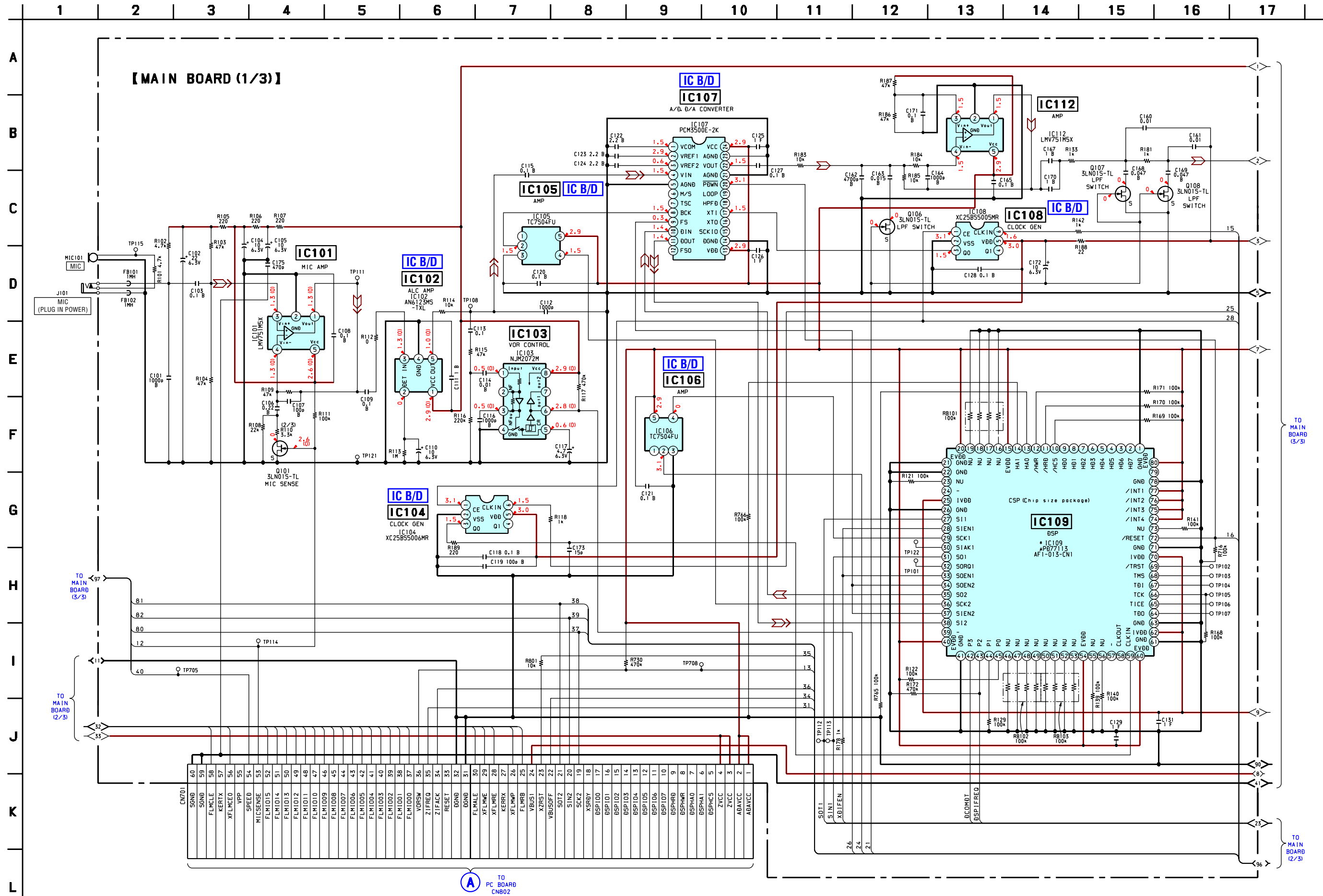
3-3. Printed Wiring Board – MAIN Section (2/2) –

•  : Uses unleaded solder.



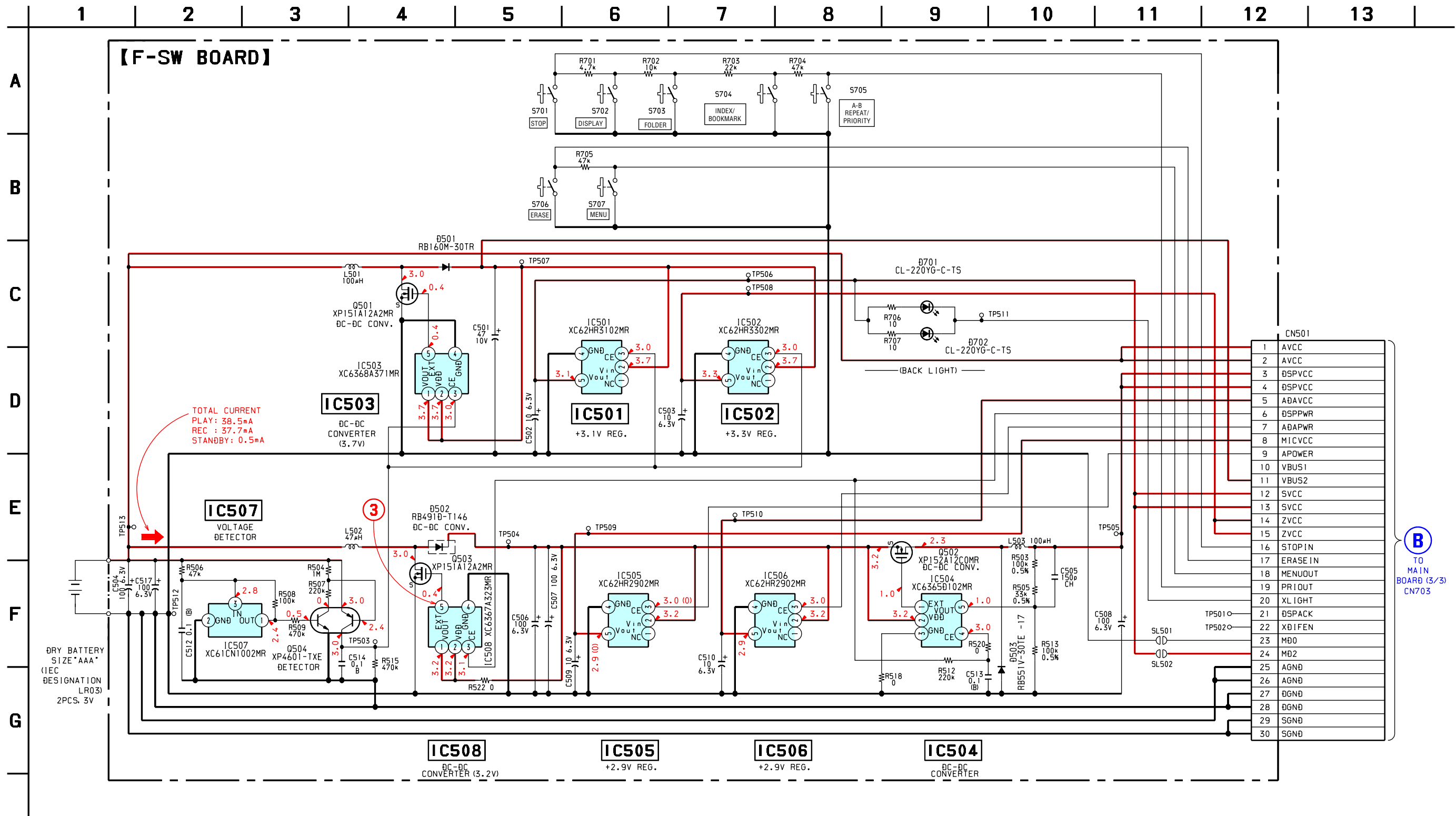
• Semiconductor Location


Ref. No.	Location
D701	G-5
D702	I-7
IC706	F-12
IC710	H-15
IC712	F-18
IC715	C-21
IC716	F-3
Q702	G-10
Q705	I-5
Q706	I-4
Q707	C-19
Q710	E-10

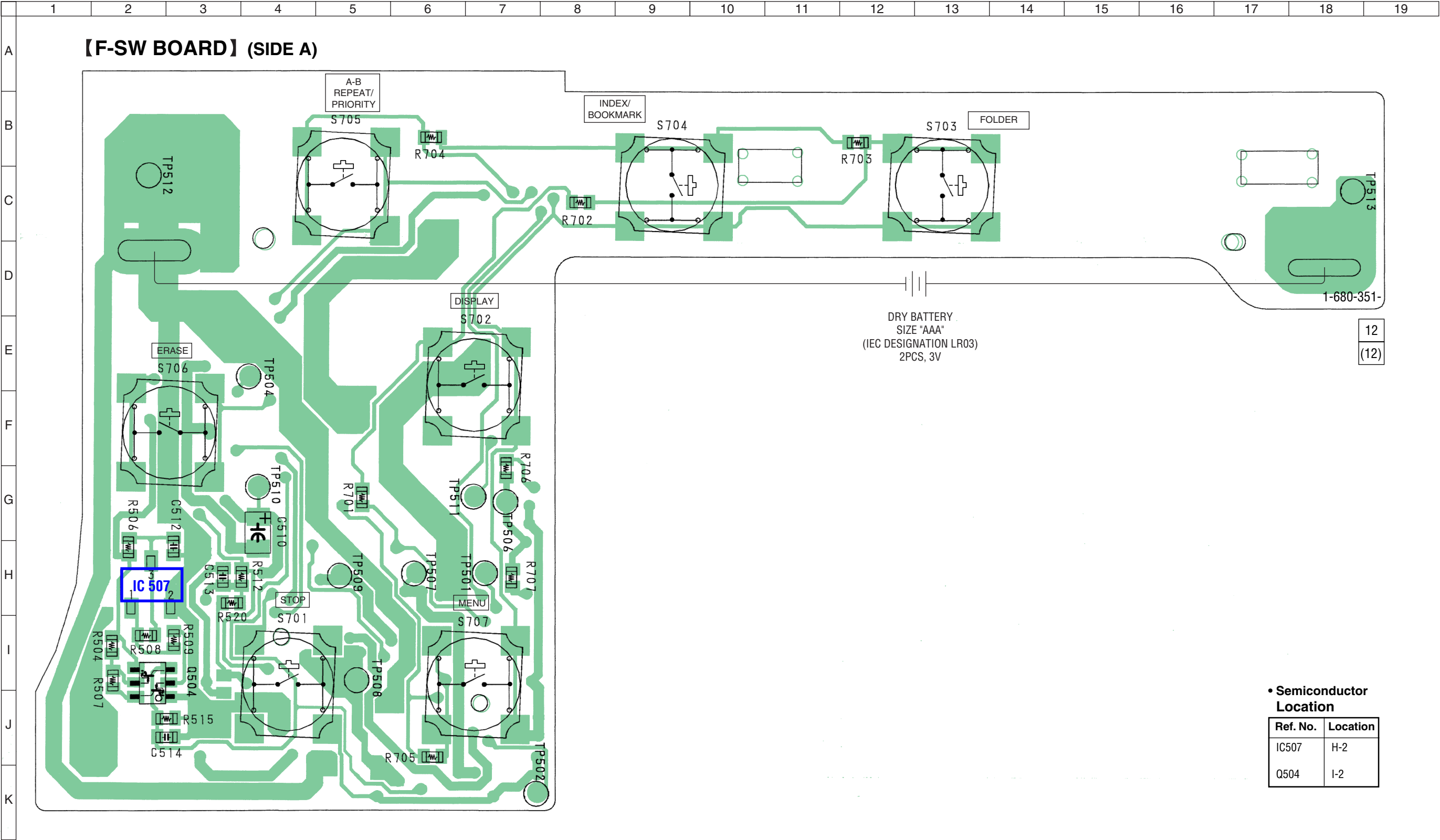




3-7. Schematic Diagram – F-SW Section –




•  : Uses unleaded solder.

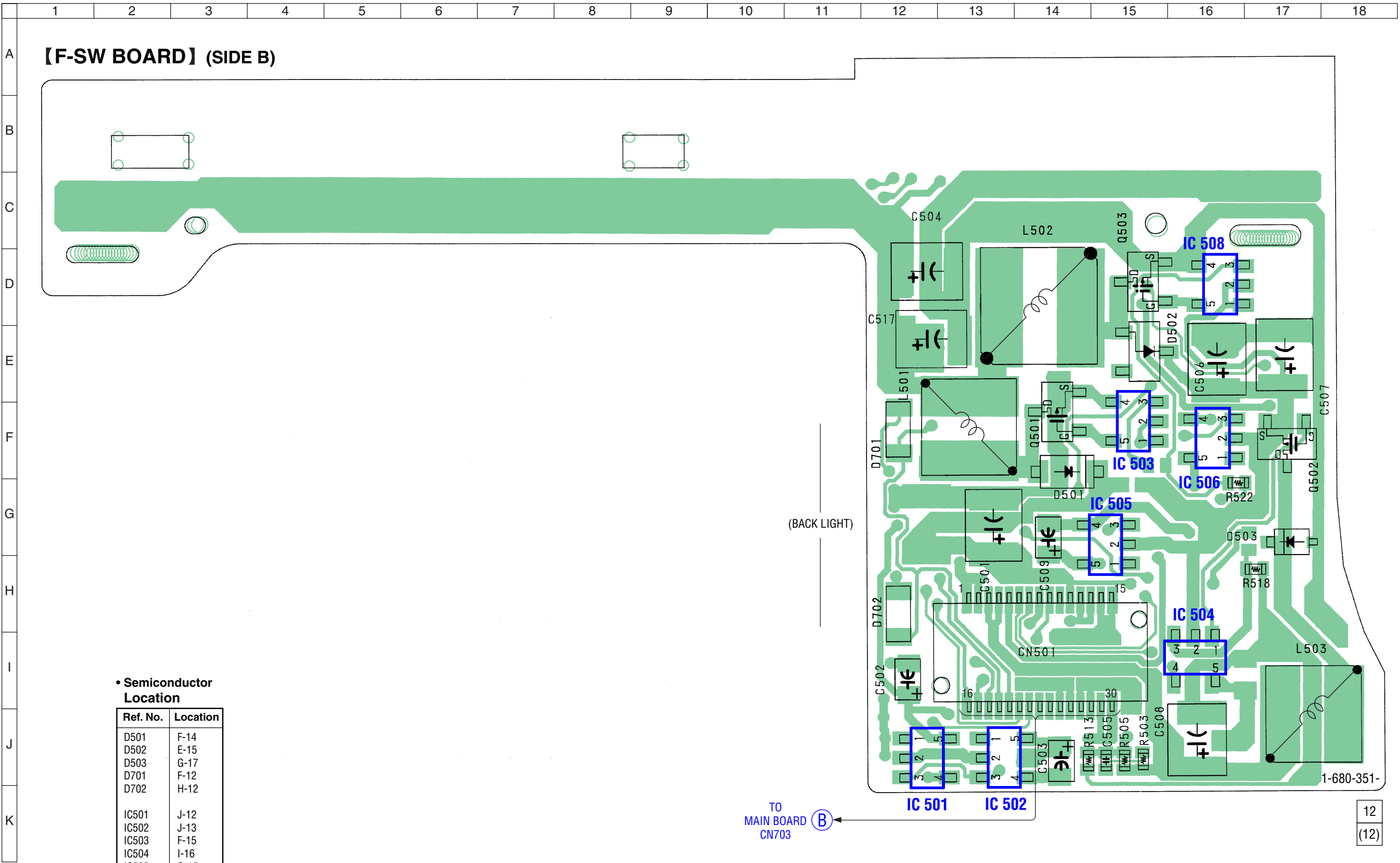



• Semiconductor
Location

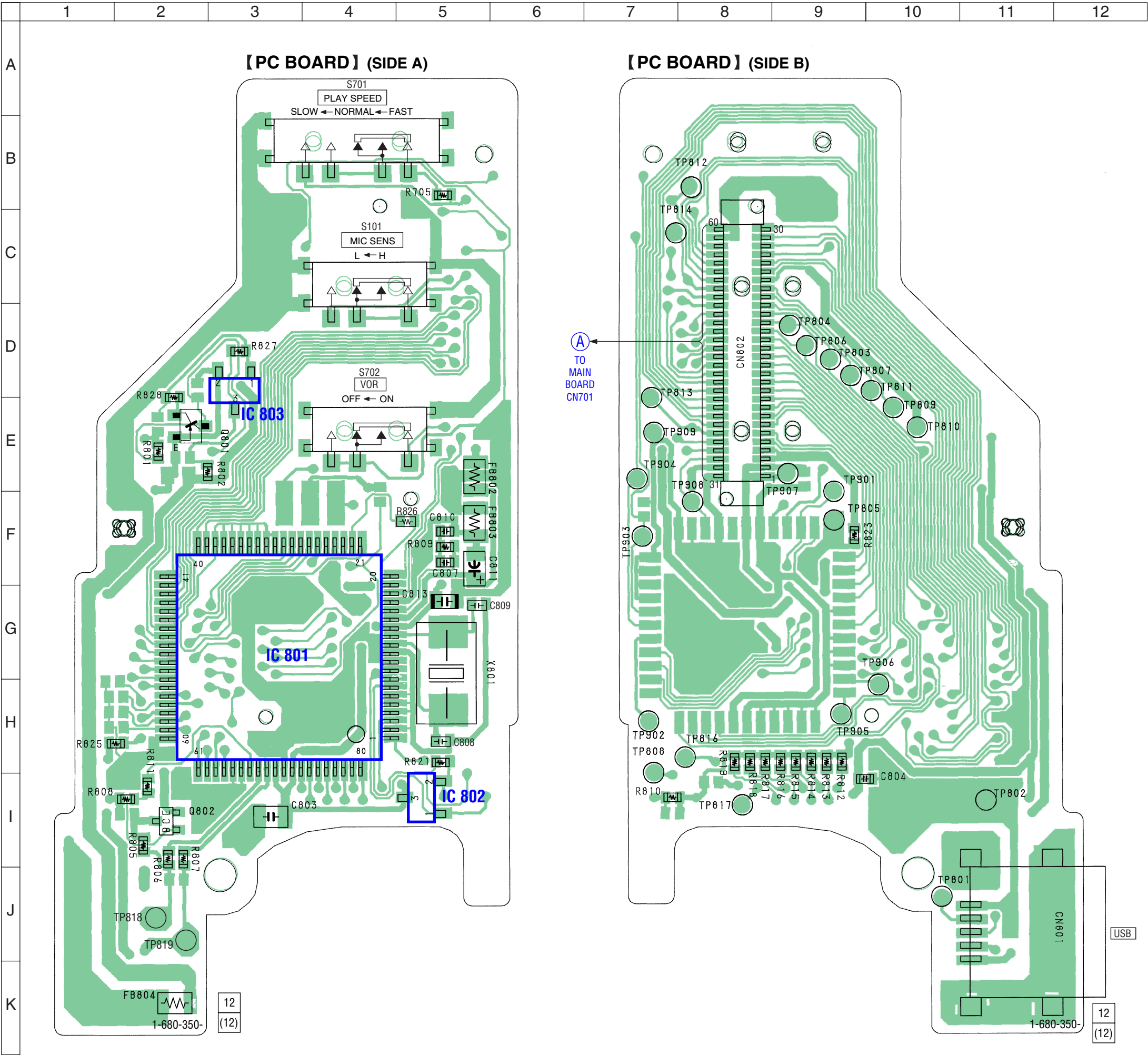
Ref. No.	Location
IC507	H-2
Q504	I-2

3-9. Printed Wiring Board – F-SW Section (2/2) –

•  : Uses unleaded solder.

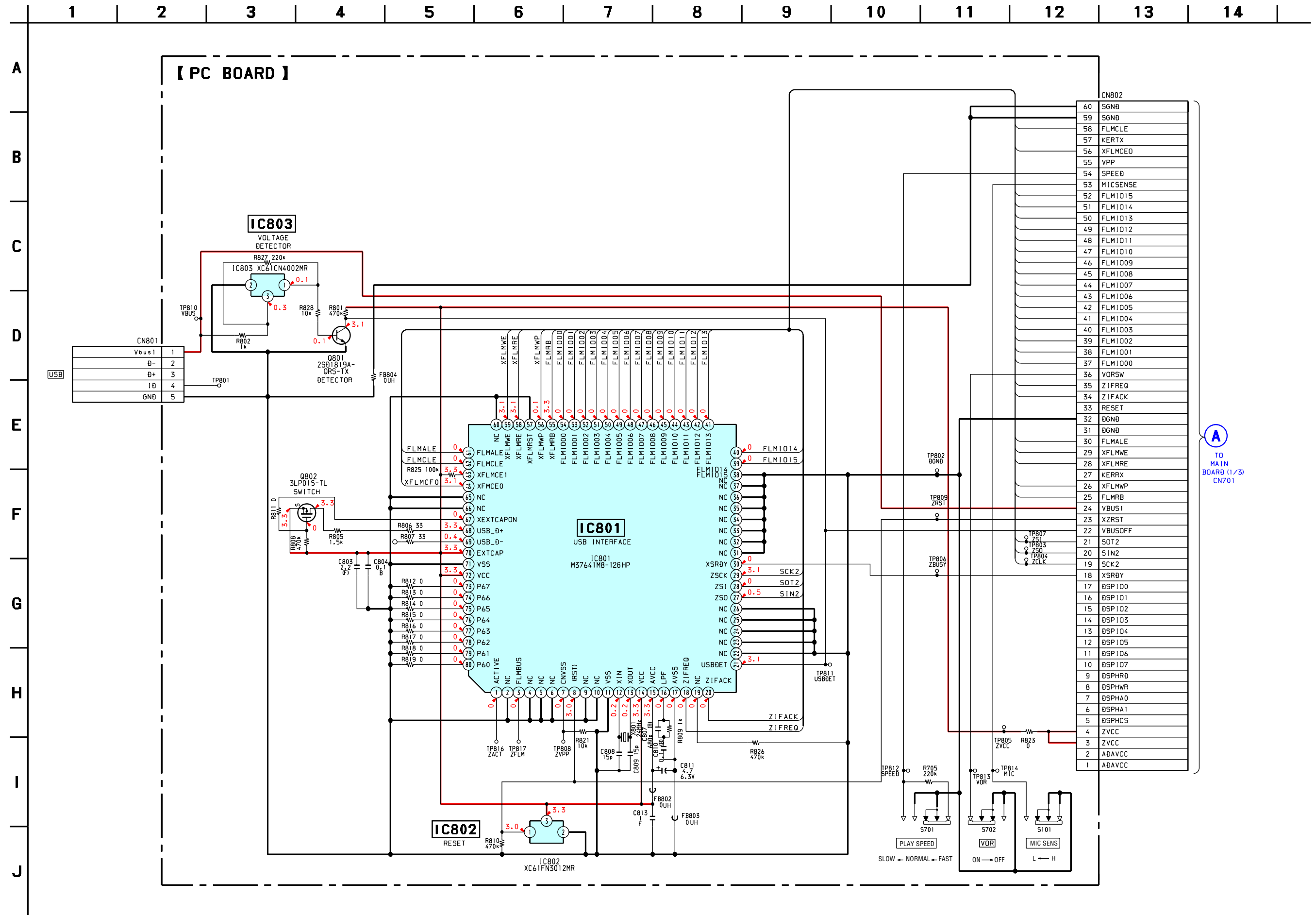



•  : Uses unleaded solder.

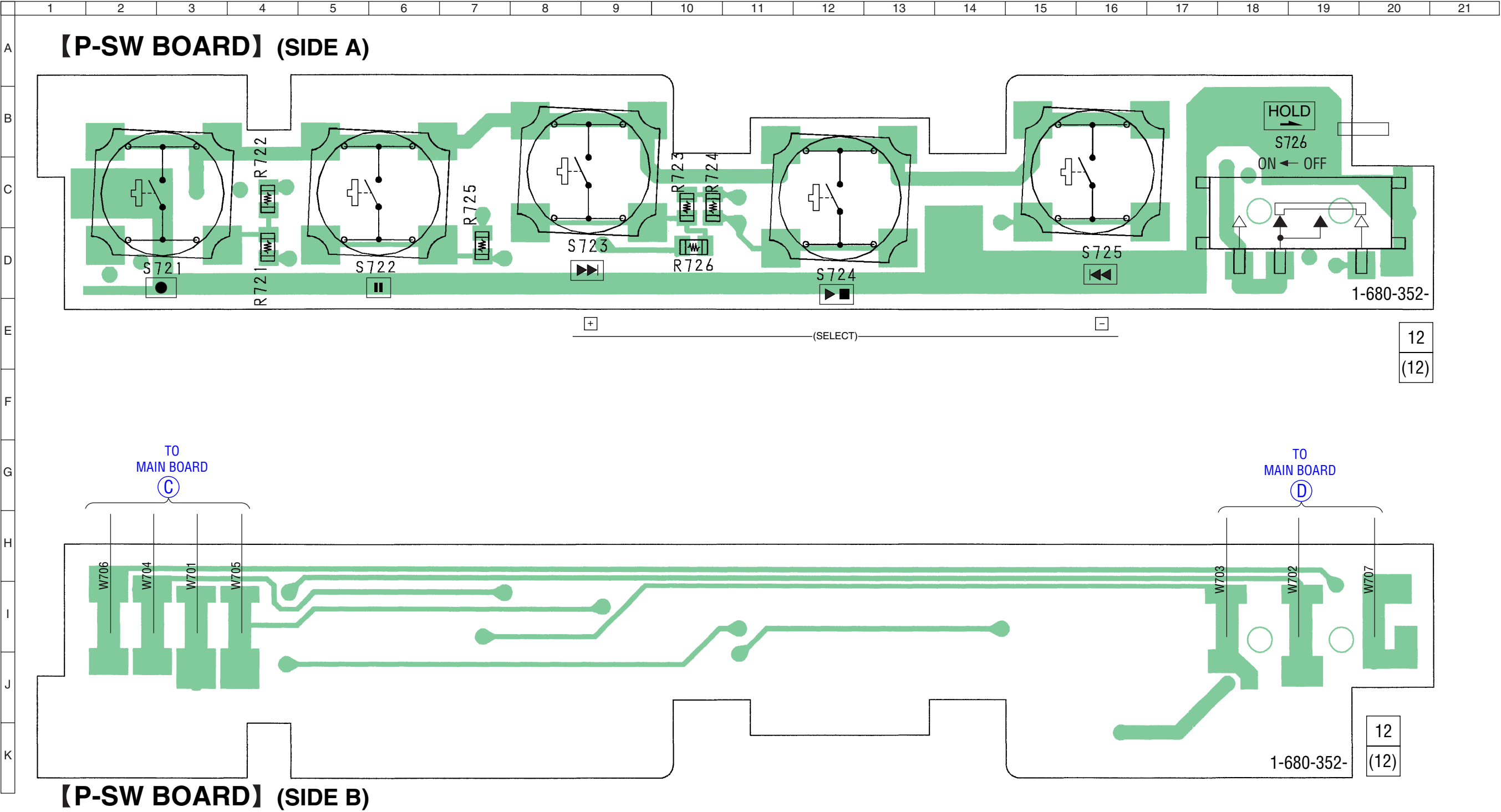


• Semiconductor Location

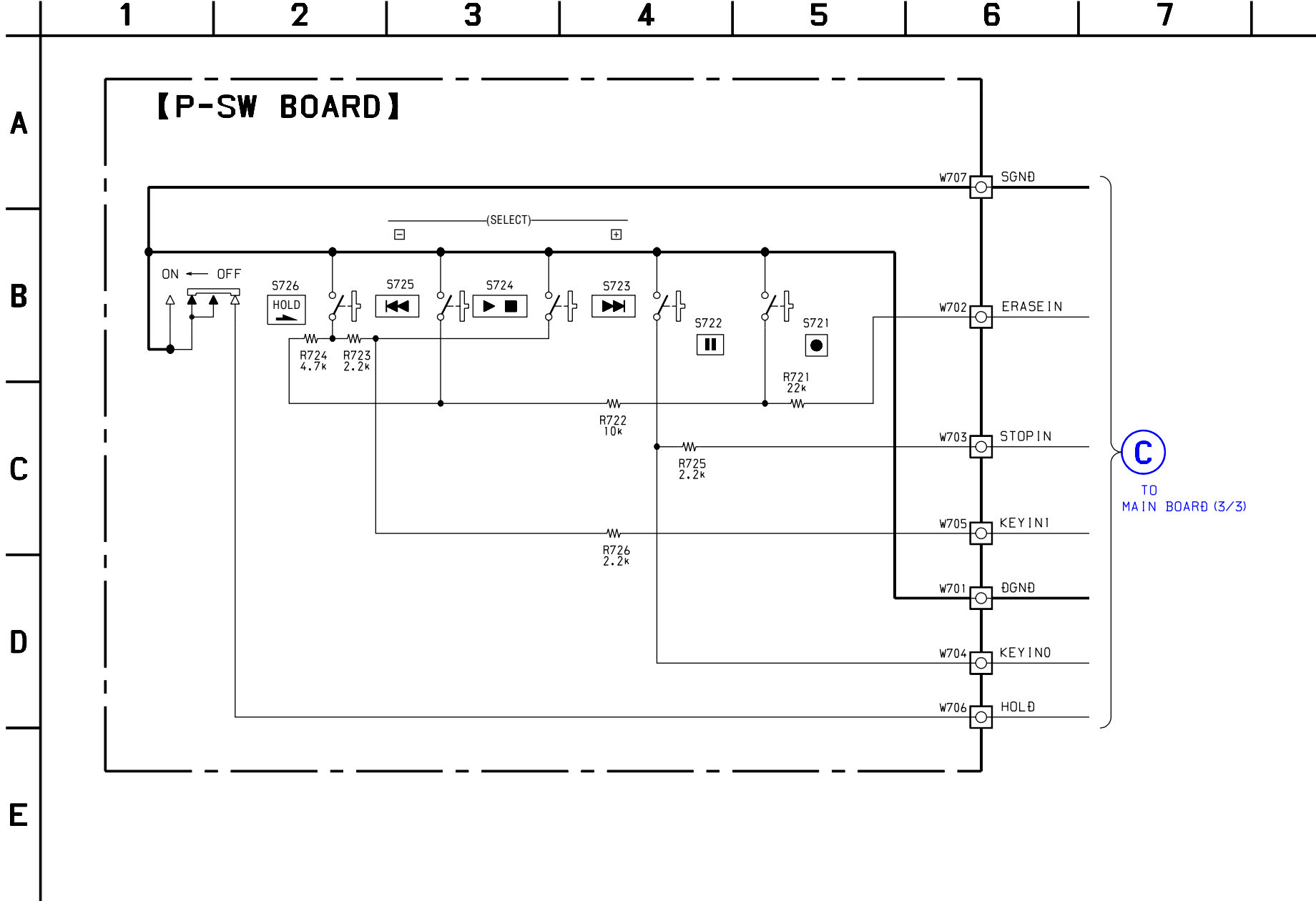
Ref. No.	Location
IC801	G-3
IC802	I-5
IC803	D-3
Q801	E-2
Q802	I-2



•  : Uses unleaded solder.



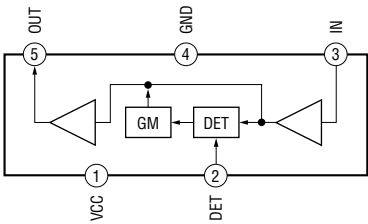
3-13. Schematic Diagram – P-SW Section –



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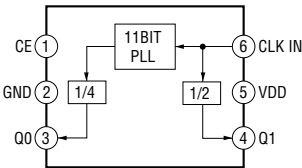
3-14. IC Block Diagrams

IC102 AN6123MS-TXL (MAIN BOARD)

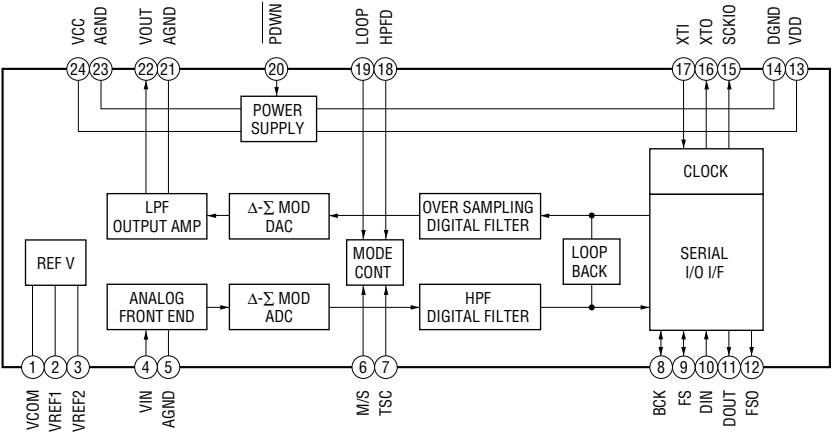


IC104 XC25BS5006MR (MAIN BOARD)

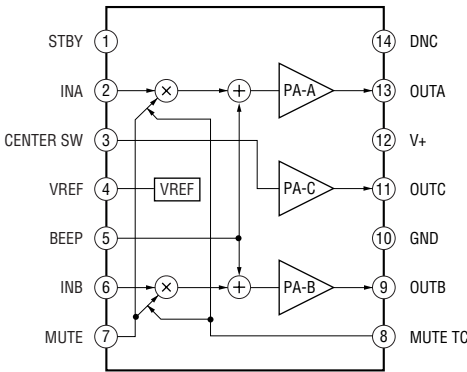
IC108 XC25BS5005MR (MAIN BOARD)



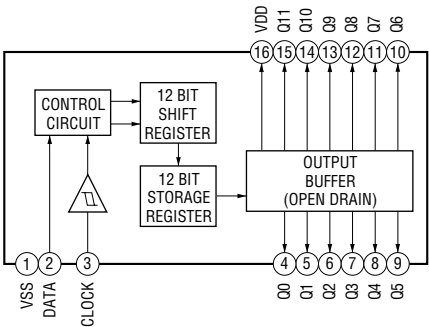
IC107 PCM3500E-2K (MAIN BOARD)



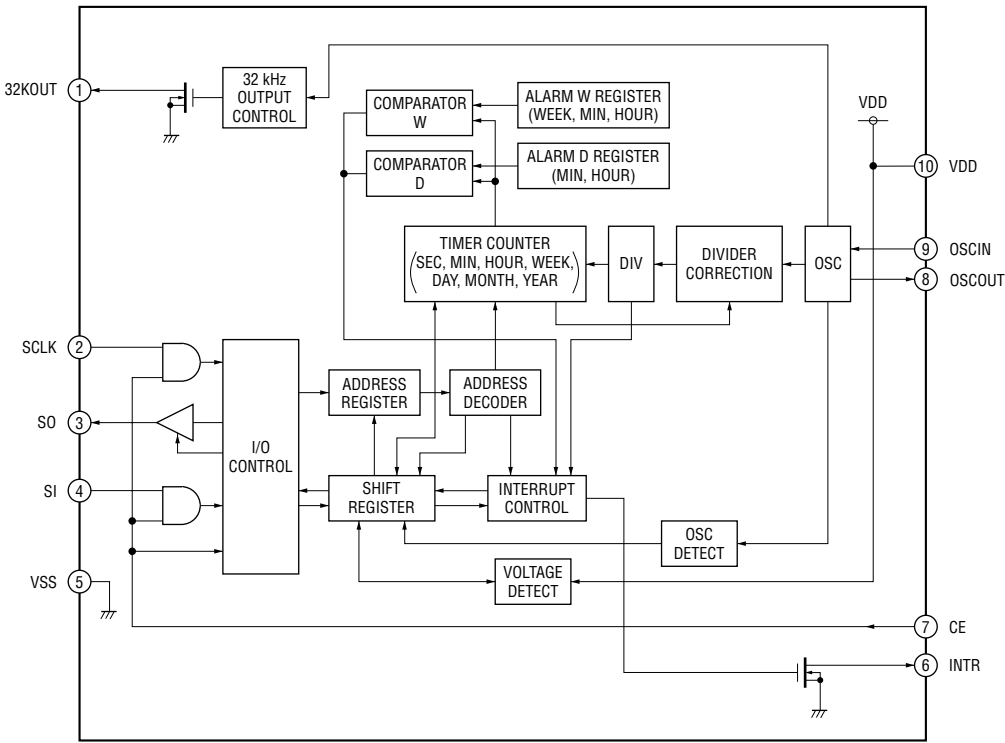
IC111 NJM2772V(Te2) (MAIN BOARD)



IC715 BU2090FS-E2 (MAIN BOARD)



IC716 RS5C348A-E2 (MAIN BOARD)



3-15. IC Pin Function Description**• IC712 MB90523APFF-G-127-BND (SYSTEM CONTROL) (MAIN BOARD)**

Pin No.	Pin Name	I/O	Description
1	RTC CE	O	Real time clock chip enable signal output
2	BEEP	O	Beep signal output
3	XFLMRE	O	Flash memory read enable signal output
4	XFLMWE	O	Flash memory write enable signal output
5	FLMRB	I	Flash memory R/B signal input
6	DSPPWR	O	DSP power output
7	ADASYSCK	O	ADA codec system clock output
8	VCC	—	Power terminal
9	DSPSYSCK	O	DSP system clock output
10	XZRST	O	Zephyr reset signal output
11	DSPACK	O	DSP I/F acknowledge signal output
12	XDIFEN	O	DSP I/F enable signal output
13	DCOMDT	O	DSP I/F command/data output
14	SIN1	I	DSP I/F serial data input
15	SOT1	O	DSP I/F serial data output
16	SCK1	O	DSP I/F serial clock output
17 to 32	SEG00-15	O	LCD segment signal output
33	VSS	—	Ground terminal
34	C	—	C (connected to power terminal)
35	SIN2	I	Zephyr/RTC I/F serial data input
36	SOT2	O	Zephyr/RTC I/F serial data output
37	SCK2	O	Zephyr/RTC I/F serial clock output
38	DVCC	—	Digital power terminal
39	DVSS	—	Digital ground terminal
40	ZIFACK	O	Zephyr I/F acknowledge signal output
41	SIPCS	O	Serial-to-parallel converter IC I/F chip enable signal output
42	AVCC	—	Analog power terminal
43	AVRH	—	A/D reference voltage H (connected to VCC)
44	AVRL	—	A/D reference voltage L (connected to ground terminal)
45	AVSS	—	Analog ground terminal
46	BATT	I	Battery level detection A/D input
47	KEYIN0	I	KEY A/D input 0
48	KEYIN1	I	KEY A/D input 1
49	SPEED	I	Speed SW A/D input 0
50	XVORSW	I	VOR SW input (LOW : VOR SW ON)
51	HPJACK	I	Headphones jack ON/OFF input
52	FLMSEL	I	Flash memory selection A/D input
53	KEYPUP	O	KEY pull-up signal output
54	VCC	—	Power terminal
55	FLMALE	O	Flash memory address latch enable signal output (AND : OE)
56	FLMCLE	O	Flash memory command enable signal output (AND : CDE)
57	XVORIN	I	VOR signal input
58	XDSPRST	O	DSP reset signal output
59 to 62	COM0-3	O	LCD common signal output
63	VSS	—	Ground terminal
64 to 72	SEG16-24	O	LCD segment signal output
73	SUBXTAL	O	Sub clock oscillator terminal (not used)
74	SUBCLK	I	Sub clock oscillator input terminal (32.768kHz)
75 to 81	SEG25-31	O	LCD segment signal output
82 to 85	V0-3	—	LCD drive reference voltage terminal

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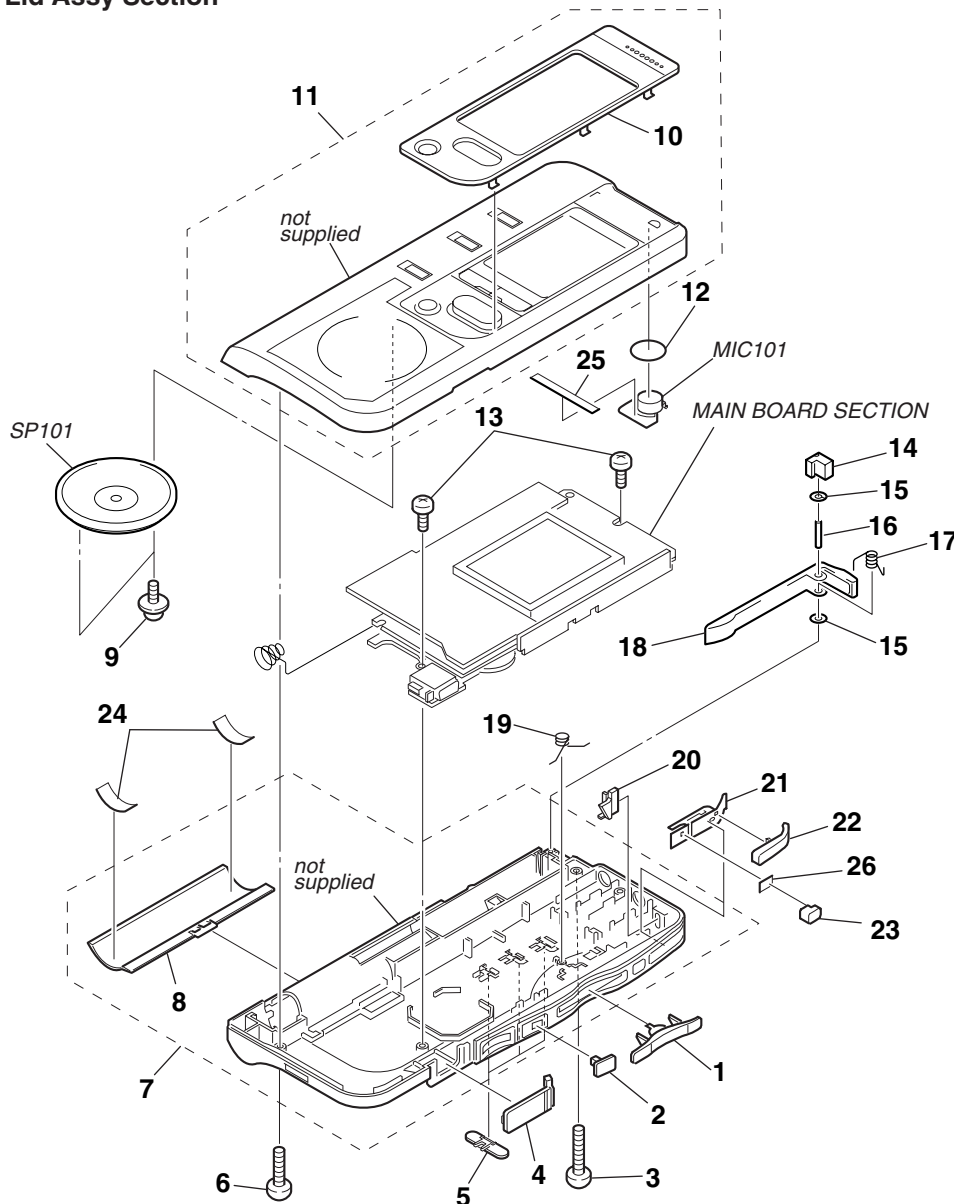
Pin No.	Pin Name	I/O	Description
86	XHSTBY	I	Hardware standby signal input (not used)
87	MD2	I	Operation mode input terminal 2
88	MD1	I	Operation mode input terminal 1 (connected to VCC)
89	MD0	I	Operation mode input terminal 0
90	XRESET	I	Reset input terminal
91	VSS	—	Ground terminal
92	XTALIN	I	Main oscillator input terminal (4.096MHz)
93	XTAL	O	Main oscillator terminal
94	VCC	—	Power terminal
95	WAKE UP	I	Wake-up signal input
96	DSPIFREQ	I	DSP VOICE I/F request input
97	ZIFREQ	I	USB uCOM (zephyr) I/F request input
98	RTCINTR	I	Real time clock interrupt request input
99	VBUSOFF	I	USB Vbus ON/OFF detection input (H : HOLD)
100	HOLD SW	I	Hold SW input (HIGH : HOLD)
101	XFLMCE0	O	Flash memory chip enable-0 signal output
102	XFLMRST/CE1	O	Flash memory reset signal/chip enable-1 signal output
103 to 118	FLMIO00-15	I/O	Flash memory data bus
119	VSS	—	Ground terminal
120	XFLMWP	O	Flash memory write protect signal output

SECTION 4 EXPLODED VIEWS

NOTE:

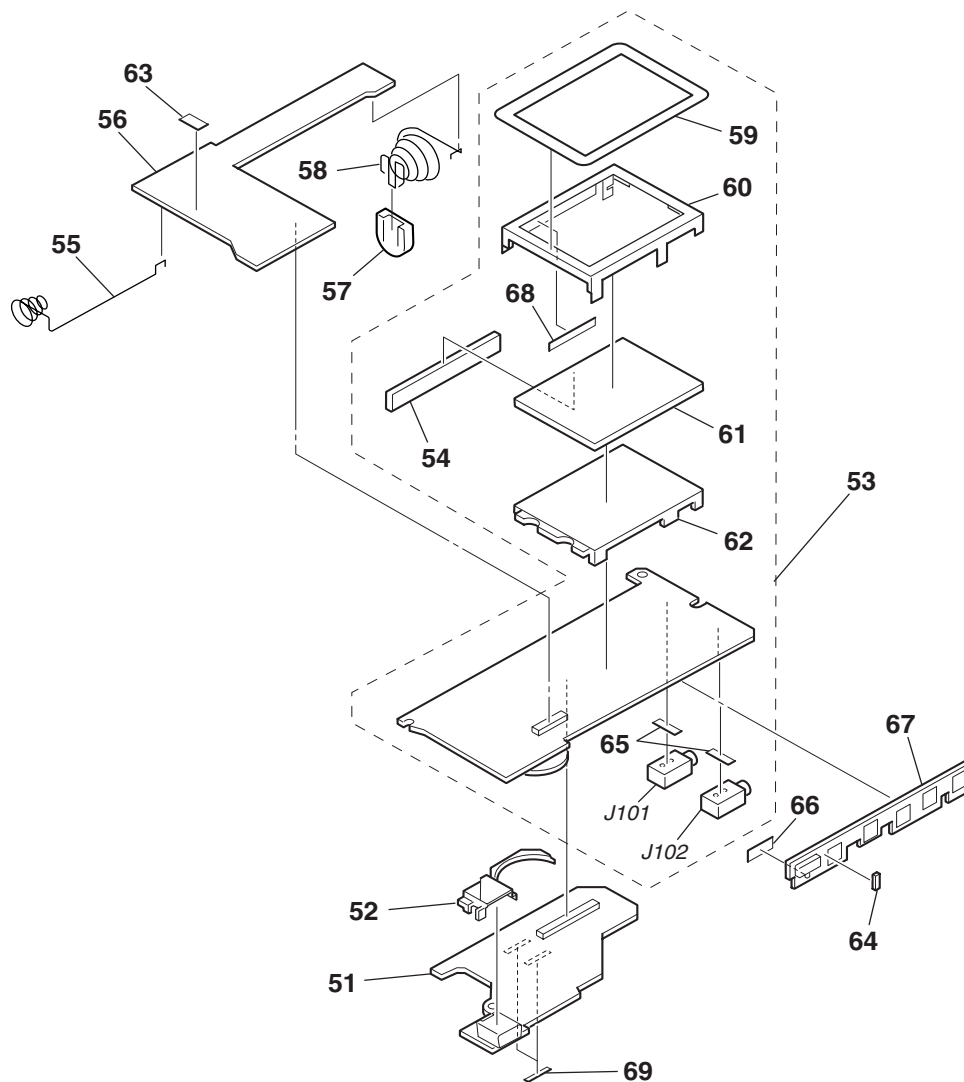
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

4-1. Upper Lid Assy Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-224-510-11	KNOB (JOG)		14	3-226-206-01	HOLDER (CLIP)	
2	3-224-507-01	KNOB (HOLD)		15	3-349-859-41	WASHER	
3	3-334-565-01	SCREW (B1.7X10), TAPPING		16	4-217-864-01	SHAFT (CLIP)	
4	3-224-508-01	CAP (PC)		17	4-217-037-01	SPRING (CLIP)	
5	4-218-503-11	KNOB (DOLBY)		18	4-217-036-01	CLIP	
6	3-318-203-82	SCREW (B1.7X7), TAPPING		19	3-224-511-01	SPRING (JOG)	
7	X-3381-801-1	CASE ASSY (BP350)		20	3-224-502-01	WINDOW (LED)	
7	X-3381-802-1	CASE ASSY (BP150)		21	3-224-506-01	BUTTON (BASE)	
8	3-224-509-01	LID, BATTERY CASE		22	3-226-160-11	BUTTON (REC)	
9	4-973-264-01	SCREW (1.7X2.5)		23	3-226-161-11	BUTTON (PAUSE)	
10	3-239-056-21	ORNAMENT (WINDOW)		24	3-046-359-01	CUSHION (BATT LID)	
11	A-3174-470-A	LID SUB BLOCK ASSY, UPPER (BP150)		25	3-229-219-01	SHEET (MICROPHONE)	
11	A-3174-481-A	LID SUB BLOCK ASSY, UPPER (BP350)		26	3-228-975-01	SHEET (PAUSE), ADHESIVE	
12	3-224-512-01	CUSHION, MICROPHONE		MIC101	1-476-484-11	MICROPHONE UNIT, ELECTRET CAP	
13	3-375-114-31	SCREW		SP101	1-529-901-11	SPEAKER (3.2cm)	

4-2. MAIN Board Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 51	A-3178-448-A	PC BOARD, COMPLETE		61	1-804-254-11	DISPLAY PANEL, LIQUID CRYSTAL	
52	3-224-518-01	GUIDE (PC)		62	3-224-515-01	PLATE, LIGHT GUIDE	
* 53	A-3021-818-A	MAIN BOARD, COMPLETE (BP350)		63	3-229-218-01	SHEET (SD-S)	
* 53	A-3021-819-A	MAIN BOARD, COMPLETE (BP150)		64	3-229-101-01	CUSHION (SW-A)	
54	1-694-773-21	CONDUCTIVE BOARD, CONNECTION		65	3-229-647-01	SHEET (JACK), ADHESIVE	
55	3-224-514-01	TERMINAL (-), BATTERY		66	3-229-100-01	SHEET (SW), ADHESIVE	
* 56	A-3062-508-A	F-SW BOARD, COMPLETE		* 67	1-680-352-12	P-SW BOARD	
57	4-217-040-01	CAP (TERMINAL)		68	3-229-673-01	SHEET (LCD-Z)	
58	3-224-513-01	TERMINAL (+), BATTERY		69	3-232-537-01	SHEET (KNOB)	
59	3-224-517-01	CUSHION (GM)		J101	1-784-848-21	JACK (MIC (PLUG IN POWER))	
60	3-224-516-01	HOLDER (LCD)		J102	1-784-943-21	JACK (SMALL TYPE) (EAR)	

SECTION 5 ELECTRICAL PARTS LIST

F-SW

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- **CAPACITORS:**
uF: μ F
- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- **COILS**
uH: μ H

- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA..., μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-3062-508-A	F-SW BOARD, COMPLETE *****				< TRANSISTOR >	
		< CAPACITOR >		Q501	8-729-053-03	TRANSISTOR	XP151A12A2MR
C501	1-137-934-11	TANTAL. CHIP	47uF 20% 10V	Q502	8-729-051-50	TRANSISTOR	XP152A12C0MR
C502	1-117-919-11	TANTAL. CHIP	10uF 20.00% 6.3V	Q503	8-729-053-03	TRANSISTOR	XP151A12A2MR
C503	1-117-919-11	TANTAL. CHIP	10uF 20.00% 6.3V	Q504	8-729-427-74	TRANSISTOR	XP4601-TXE
C504	1-128-964-11	TANTAL. CHIP	100uF 20% 6.3V			< RESISTOR >	
C505	1-164-878-11	CERAMIC CHIP	150PF 5.00% 16V	R503	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
C506	1-128-964-11	TANTAL. CHIP	100uF 20% 6.3V	R504	1-218-989-11	RES-CHIP	1M 5% 1/16W
C507	1-128-964-11	TANTAL. CHIP	100uF 20% 6.3V	R505	1-208-719-11	METAL CHIP	33K 0.5% 1/16W
C508	1-128-964-11	TANTAL. CHIP	100uF 20% 6.3V	R506	1-218-973-11	RES-CHIP	47K 5% 1/16W
C509	1-117-919-11	TANTAL. CHIP	10uF 20.00% 6.3V	R507	1-218-981-11	RES-CHIP	220K 5% 1/16W
C510	1-117-919-11	TANTAL. CHIP	10uF 20.00% 6.3V	R508	1-218-977-11	RES-CHIP	100K 5% 1/16W
C512	1-125-777-11	CERAMIC CHIP	0.1uF 10.00% 10V	R509	1-218-985-11	RES-CHIP	470K 5% 1/16W
C513	1-125-777-11	CERAMIC CHIP	0.1uF 10.00% 10V	R512	1-218-981-11	RES-CHIP	220K 5% 1/16W
C514	1-125-777-11	CERAMIC CHIP	0.1uF 10.00% 10V	R513	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
C517	1-128-964-11	TANTAL. CHIP	100uF 20% 6.3V	R515	1-218-985-11	RES-CHIP	470K 5% 1/16W
		< CONNECTOR >		R518	1-218-990-11	SHORT	0
* CN501	1-815-199-21	CONNECTOR, BOARD TO BOARD 30P		R520	1-218-990-11	SHORT	0
		< DIODE >		R522	1-218-990-11	SHORT	0
D501	8-719-081-34	DIODE RB160M-30TR		R701	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
D502	8-719-066-16	DIODE RB491D-T146		R702	1-218-965-11	RES-CHIP	10K 5% 1/16W
D503	8-719-073-35	DIODE RB551V-30TE-17		R703	1-218-969-11	RES-CHIP	22K 5% 1/16W
D701	8-719-070-68	DIODE CL-220YG-C-TS (BACK LIGHT)		R704	1-218-973-11	RES-CHIP	47K 5% 1/16W
D702	8-719-070-68	DIODE CL-220YG-C-TS (BACK LIGHT)		R705	1-218-973-11	RES-CHIP	47K 5% 1/16W
		< IC >		R706	1-208-635-11	RES-CHIP	10 5% 1/16W
IC501	8-759-661-66	IC XC62HR3102MR		R707	1-208-635-11	RES-CHIP	10 5% 1/16W
IC502	8-759-657-74	IC XC62HR3302MR				< SWITCH >	
IC503	8-759-825-96	IC XC6368A371MR		S701	1-771-053-11	SWITCH, KEY BOARD (STOP)	
IC504	8-759-825-98	IC XC6365D102MR		S702	1-771-053-11	SWITCH, KEY BOARD (DISPLAY)	
IC505	8-759-825-95	IC XC62HR2902MR		S703	1-771-053-11	SWITCH, KEY BOARD (FOLDER)	
IC506	8-759-825-95	IC XC62HR2902MR		S704	1-771-053-11	SWITCH, KEY BOARD (INDEX/BOOKMARK)	
IC507	8-759-694-89	IC XC61CN1002MR		S705	1-771-053-11	SWITCH, KEY BOARD (A-B REPEAT/PRIORITY)	
IC508	8-759-825-94	IC XC6367A323MR		S706	1-771-053-11	SWITCH, KEY BOARD (ERASE)	
		< COIL >		S707	1-771-053-11	SWITCH, KEY BOARD (MENU)	
L501	1-419-311-11	INDUCTOR	100uH	*****			
L502	1-419-978-11	INDUCTOR	47uH				
L503	1-419-311-11	INDUCTOR	100uH				

ICD-BP150/BP350

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-3021-819-A	MAIN BOARD, COMPLETE (BP150) *****		C151	1-115-467-11	CERAMIC CHIP 0.22uF	10.00% 10V
*	A-3021-818-A	MAIN BOARD, COMPLETE (BP350) *****		C152	1-115-467-11	CERAMIC CHIP 0.22uF	10.00% 10V
	1-694-773-21	CONDUCTIVE BOARD, CONNECTION		C153	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
	1-804-254-11	DISPLAY PANEL, LIQUID CRYSTAL		C154	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V
	3-224-515-01	PLATE, LIGHT GUIDE		C156	1-115-156-11	CERAMIC CHIP 1uF	10V
	3-224-516-01	HOLDER (LCD)					
	3-224-517-01	CUSHION (GM)		C157	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V
				C160	1-164-943-11	CERAMIC CHIP 0.01uF	10.00% 16V
	3-229-647-01	SHEET (JACK), ADHESIVE		C161	1-164-943-11	CERAMIC CHIP 0.01uF	10.00% 16V
	3-229-673-01	SHEET (LCD-Z)		C162	1-164-941-11	CERAMIC CHIP 0.0047uF	10.00% 16V
		< CAPACITOR >		C163	1-127-988-11	CERAMIC CHIP 15000PF	10% 16V
C101	1-164-937-11	CERAMIC CHIP 0.001uF	10.00% 50V	C164	1-164-937-11	CERAMIC CHIP 0.001uF	10.00% 50V
C102	1-119-750-11	TANTAL. CHIP 22uF	20.00% 6.3V	C165	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C103	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C167	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V
C104	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V	C168	1-119-923-11	CERAMIC CHIP 0.047uF	10.00% 10V
C105	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V	C169	1-119-923-11	CERAMIC CHIP 0.047uF	10.00% 10V
C106	1-115-467-11	CERAMIC CHIP 0.22uF	10.00% 10V	C170	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V
C107	1-164-931-11	CERAMIC CHIP 100PF	10.00% 50V	C171	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C108	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C172	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V
C109	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C173	1-164-854-11	CERAMIC CHIP 15PF	5.00% 50V
C110	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V	C175	1-164-935-11	CERAMIC CHIP 470PF	10.00% 50V
C111	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V	C709	1-115-156-11	CERAMIC CHIP 1uF	10V
C112	1-164-937-11	CERAMIC CHIP 0.001uF	10.00% 50V	C726	1-164-939-11	CERAMIC CHIP 0.0022uF	10.00% 50V
C113	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C727	1-115-156-11	CERAMIC CHIP 1uF	10V
C114	1-164-943-11	CERAMIC CHIP 0.01uF	10.00% 16V	C728	1-115-156-11	CERAMIC CHIP 1uF	10V
C115	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C739	1-115-156-11	CERAMIC CHIP 1uF	10V
C116	1-164-937-11	CERAMIC CHIP 0.001uF	10.00% 50V	C740	1-115-156-11	CERAMIC CHIP 1uF	10V
C117	1-125-926-11	TANTAL. CHIP 4.7uF	20% 6.3V	C742	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C118	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C743	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C119	1-164-931-11	CERAMIC CHIP 100PF	10.00% 50V	C744	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C120	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C746	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C121	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C747	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C122	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V	C748	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C123	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V	C749	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C124	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V	C750	1-115-156-11	CERAMIC CHIP 1uF	10V
C125	1-115-156-11	CERAMIC CHIP 1uF	10V	C753	1-128-964-11	TANTAL. CHIP 100uF	20% 6.3V
C126	1-115-156-11	CERAMIC CHIP 1uF	10V	C754	1-164-931-11	CERAMIC CHIP 100PF	10.00% 50V
C127	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C755	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C128	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C757	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C129	1-115-156-11	CERAMIC CHIP 1uF	10V	C758	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C131	1-115-156-11	CERAMIC CHIP 1uF	10V	C759	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C132	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	C763	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V
C135	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V			< CONNECTOR >	
C136	1-125-777-11	CERAMIC CHIP 0.1uF	10.00% 10V	* CN701	1-815-201-21	CONNECTOR, BOARD TO BOARD 60P	
C137	1-107-819-11	CERAMIC CHIP 0.022uF	10.00% 16V	* CN703	1-815-200-21	CONNECTOR, BOARD TO BOARD 30P	
C138	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V			< DIODE >	
C139	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V	D701	8-719-016-74	DIODE 1SS352-TPH3	
C140	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V	D702	8-719-081-34	DIODE RB160M-30TR	
C141	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V	D703	8-719-073-33	DIODE CL-165HR/YG-D-T (OPR)	
C142	1-119-750-11	TANTAL. CHIP 22uF	20.00% 6.3V			< FERRITE BEAD >	
C144	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V				
C145	1-164-931-11	CERAMIC CHIP 100PF	10.00% 50V	FB101	1-469-084-21	FERRITE 1MH	
C147	1-115-156-11	CERAMIC CHIP 1uF	10V	FB102	1-469-084-21	FERRITE 1MH	
C148	1-117-919-11	TANTAL. CHIP 10uF	20.00% 6.3V	FB103	1-469-084-21	FERRITE 1MH	
C149	1-164-943-11	CERAMIC CHIP 0.01uF	10.00% 16V	FB104	1-469-084-21	FERRITE 1MH	
C150	1-107-819-11	CERAMIC CHIP 0.022uF	10.00% 16V	FB105	1-469-084-21	FERRITE 1MH	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< IC >				R116	1-218-981-11	RES-CHIP 220K 5%	1/16W
IC101	8-759-677-71	IC LMV751M5X		R117	1-218-985-11	RES-CHIP 470K 5%	1/16W
IC102	8-759-586-57	IC AN6123MS-TXL		R118	1-218-953-11	RES-CHIP 1K 5%	1/16W
IC103	8-759-701-51	IC NJM2072M(Te2)		R121	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC104	8-759-833-82	IC XC25BS5006MR		R122	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC105	8-759-058-58	IC TC7S04FU(Te85R)		R129	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC106	8-759-058-58	IC TC7S04FU(Te85R)		R133	1-218-953-11	RES-CHIP 1K 5%	1/16W
IC107	8-759-825-99	IC PCM3500E-2K		R139	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC108	8-759-827-31	IC XC25BS5005MR		R140	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC109	6-702-132-01	IC uPD77113AF1-031-CN1		R141	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC110	6-700-841-01	IC BA6640BF-E2		R142	1-218-953-11	RES-CHIP 1K 5%	1/16W
IC111	8-759-826-02	IC NJM2772V(Te2)		R143	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC112	8-759-677-71	IC LMV751M5X		R144	1-218-957-11	RES-CHIP 2.2K 5%	1/16W
IC706	8-759-583-36	IC TC58128FT(EL) (BP150)		R146	1-218-977-11	RES-CHIP 100K 5%	1/16W
IC706	6-700-726-01	IC TC58512FT(EL) (BP350)		R147	1-218-957-11	RES-CHIP 2.2K 5%	1/16W
IC710	8-759-590-37	IC XC61FC2712MR		R148	1-218-990-11	SHORT 0	
IC712	6-801-494-01	IC MB90523APFF-G-127-BND		R149	1-218-985-11	RES-CHIP 470K 5%	1/16W
IC715	8-759-670-89	IC BU2090FS-E2		R150	1-218-985-11	RES-CHIP 470K 5%	1/16W
IC716	8-759-560-17	IC RS5C348A-E2		R151	1-218-965-11	RES-CHIP 10K 5%	1/16W
				R152	1-218-965-11	RES-CHIP 10K 5%	1/16W
< JACK >				R153	1-218-953-11	RES-CHIP 1K 5%	1/16W
J101	1-784-848-21	JACK (MIC (PLUG IN POWER))		R154	1-218-985-11	RES-CHIP 470K 5%	1/16W
J102	1-784-943-11	JACK (SMALL TYPE) (EAR)		R155	1-218-953-11	RES-CHIP 1K 5%	1/16W
< TRANSISTOR >				R156	1-218-953-11	RES-CHIP 1K 5%	1/16W
Q101	8-729-048-04	TRANSISTOR 3LN01S-TL		R158	1-218-957-11	RES-CHIP 2.2K 5%	1/16W
Q102	8-729-048-04	TRANSISTOR 3LN01S-TL		R159	1-218-957-11	RES-CHIP 2.2K 5%	1/16W
Q103	8-729-037-58	TRANSISTOR UN9110J-(TX).SO		R160	1-218-935-11	RES-CHIP 33 5%	1/16W
Q104	8-729-037-58	TRANSISTOR UN9110J-(TX).SO		R161	1-218-935-11	RES-CHIP 33 5%	1/16W
Q105	8-729-904-86	TRANSISTOR 2SB1197K-T-146-Q		R162	1-218-981-11	RES-CHIP 220K 5%	1/16W
Q106	8-729-048-04	TRANSISTOR 3LN01S-TL		R163	1-218-981-11	RES-CHIP 220K 5%	1/16W
Q107	8-729-048-04	TRANSISTOR 3LN01S-TL		R166	1-218-973-11	RES-CHIP 47K 5%	1/16W
Q108	8-729-048-04	TRANSISTOR 3LN01S-TL		R167	1-218-957-11	RES-CHIP 2.2K 5%	1/16W
Q110	8-729-053-03	TRANSISTOR XP151A12A2MR		R168	1-218-977-11	RES-CHIP 100K 5%	1/16W
Q702	8-729-041-23	TRANSISTOR NDS356AP		R169	1-218-977-11	RES-CHIP 100K 5%	1/16W
Q705	8-729-420-24	TRANSISTOR 2SB1218A-QRS-TX		R170	1-218-977-11	RES-CHIP 100K 5%	1/16W
Q706	8-729-420-24	TRANSISTOR 2SB1218A-QRS-TX		R171	1-218-977-11	RES-CHIP 100K 5%	1/16W
Q707	8-729-051-53	TRANSISTOR 3LP01S-TL		R172	1-218-985-11	RES-CHIP 470K 5%	1/16W
Q710	8-729-051-53	TRANSISTOR 3LP01S-TL		R177	1-218-990-11	SHORT 0	
< RESISTOR >				R178	1-218-953-11	RES-CHIP 1K 5%	1/16W
R101	1-218-961-11	RES-CHIP 4.7K 5%	1/16W	R179	1-218-977-11	RES-CHIP 100K 5%	1/16W
R102	1-218-961-11	RES-CHIP 4.7K 5%	1/16W	R181	1-218-953-11	RES-CHIP 1K 5%	1/16W
R103	1-218-973-11	RES-CHIP 47K 5%	1/16W	R182	1-218-969-11	RES-CHIP 22K 5%	1/16W
R104	1-218-973-11	RES-CHIP 47K 5%	1/16W	R183	1-218-965-11	RES-CHIP 10K 5%	1/16W
R105	1-218-945-11	RES-CHIP 220 5%	1/16W	R184	1-218-965-11	RES-CHIP 10K 5%	1/16W
R106	1-218-945-11	RES-CHIP 220 5%	1/16W	R185	1-218-965-11	RES-CHIP 10K 5%	1/16W
R107	1-218-945-11	RES-CHIP 220 5%	1/16W	R186	1-218-973-11	RES-CHIP 47K 5%	1/16W
R108	1-218-969-11	RES-CHIP 22K 5%	1/16W	R187	1-218-973-11	RES-CHIP 47K 5%	1/16W
R109	1-218-973-11	RES-CHIP 47K 5%	1/16W	R188	1-208-643-11	RES-CHIP 22 5%	1/16W
R110	1-218-959-11	RES-CHIP 3.3K 5%	1/16W	R189	1-218-945-11	RES-CHIP 220 5%	1/16W
R111	1-218-977-11	RES-CHIP 100K 5%	1/16W	R701	1-218-985-11	RES-CHIP 470K 5%	1/16W
R112	1-218-990-11	SHORT 0		R702	1-218-985-11	RES-CHIP 470K 5%	1/16W
R113	1-218-989-11	RES-CHIP 1M 5%	1/16W	R703	1-218-941-11	RES-CHIP 100 5%	1/16W
R114	1-218-965-11	RES-CHIP 10K 5%	1/16W	R711	1-218-985-11	RES-CHIP 470K 5%	1/16W
R115	1-218-973-11	RES-CHIP 47K 5%	1/16W	R714	1-218-985-11	RES-CHIP 470K 5%	1/16W
				R716	1-218-977-11	RES-CHIP 100K 5%	1/16W

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MAIN

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Ref. No.	Part No.	Description	Remarks		
R717	1-218-977-11	RES-CHIP	100K	5%	1/16W
R718	1-218-985-11	RES-CHIP	470K	5%	1/16W
R719	1-218-965-11	RES-CHIP	10K	5%	1/16W
R720	1-218-985-11	RES-CHIP	470K	5%	1/16W
R721	1-218-985-11	RES-CHIP	470K	5%	1/16W
R722	1-218-953-11	RES-CHIP	1K	5%	1/16W
R723	1-218-985-11	RES-CHIP	470K	5%	1/16W
R724	1-218-985-11	RES-CHIP	470K	5%	1/16W
R725	1-218-953-11	RES-CHIP	1K	5%	1/16W
R726	1-218-953-11	RES-CHIP	1K	5%	1/16W
R729	1-218-977-11	RES-CHIP	100K	5%	1/16W
R730	1-218-985-11	RES-CHIP	470K	5%	1/16W
R731	1-218-977-11	RES-CHIP	100K	5%	1/16W
R732	1-218-985-11	RES-CHIP	470K	5%	1/16W
R734	1-218-977-11	RES-CHIP	100K	5%	1/16W
R754	1-218-985-11	RES-CHIP	470K	5%	1/16W
R756	1-218-965-11	RES-CHIP	10K	5%	1/16W
R757	1-218-977-11	RES-CHIP	100K	5%	1/16W
R758	1-218-965-11	RES-CHIP	10K	5%	1/16W
R759	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R760	1-218-965-11	RES-CHIP	10K	5%	1/16W
R763	1-218-953-11	RES-CHIP	1K	5%	1/16W
R764	1-218-981-11	RES-CHIP	220K	5%	1/16W
R765	1-218-977-11	RES-CHIP	100K	5%	1/16W
R766	1-218-977-11	RES-CHIP	100K	5%	1/16W
R769	1-218-985-11	RES-CHIP	470K	5%	1/16W
R770	1-218-953-11	RES-CHIP	1K	5%	1/16W
R772	1-218-985-11	RES-CHIP	470K	5%	1/16W
R774	1-218-977-11	RES-CHIP	100K	5%	1/16W
R776	1-218-965-11	RES-CHIP	10K	5%	1/16W
R778	1-218-965-11	RES-CHIP	10K	5%	1/16W
R786	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R787	1-218-949-11	RES-CHIP	470	5%	1/16W
R794	1-218-985-11	RES-CHIP	470K	5%	1/16W
R798	1-208-719-11	METAL CHIP	33K	0.5%	1/16W
R799	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R801	1-218-965-11	RES-CHIP	10K	5%	1/16W
< COMPOSITION CIRCUIT BLOCK >					
RB101	1-233-973-11	RES, NETWORK (CHIP TYPE) 100K			
RB102	1-233-973-11	RES, NETWORK (CHIP TYPE) 100K			
RB103	1-233-973-11	RES, NETWORK (CHIP TYPE) 100K			
< VARIABLE RESISTOR >					
RV101	1-227-136-11	RES, VAR, CARBON 30K/30K (VOL ▲)			
< VIBRATOR >					
X701	1-795-116-21	VIBRATOR, CERAMIC 4.096MHz			
X702	1-767-994-11	VIBRATOR, CRYSTAL 32.768MHz			

Ref. No.	Part No.	Description	Remarks		
*	A-3178-448-A	PC BOARD, COMPLETE	*****		
< CAPACITOR >					
C803	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C804	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C807	1-164-936-11	CERAMIC CHIP	680PF	10.00%	50V
C808	1-164-854-11	CERAMIC CHIP	15PF	5.00%	50V
C809	1-164-854-11	CERAMIC CHIP	15PF	5.00%	50V
C810	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C811	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C813	1-115-156-11	CERAMIC CHIP	1uF		10V
< CONNECTOR >					
CN801	1-815-153-11	CONNECTOR (USB) 5P			
* CN802	1-815-202-21	CONNECTOR, BOARD TO BOARD 60P			
< FERRITE BEAD >					
FB802	1-469-324-21	FERRITE	0UH		
FB803	1-469-324-21	FERRITE	0UH		
FB804	1-469-324-21	FERRITE	0UH		
< IC >					
IC801	6-801-481-01	IC M37641M8-126HP			
IC802	8-759-712-90	IC XC61FN3012MR			
IC803	8-759-833-11	IC XC61CN4002MR			
< TRANSISTOR >					
Q801	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
Q802	8-729-051-53	TRANSISTOR	3LP01S-TL		
< RESISTOR >					
R705	1-218-981-11	RES-CHIP	220K	5%	1/16W
R801	1-218-985-11	RES-CHIP	470K	5%	1/16W
R802	1-218-953-11	RES-CHIP	1K	5%	1/16W
R805	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R806	1-218-935-11	RES-CHIP	33	5%	1/16W
R807	1-218-935-11	RES-CHIP	33	5%	1/16W
R808	1-218-985-11	RES-CHIP	470K	5%	1/16W
R809	1-218-953-11	RES-CHIP	1K	5%	1/16W
R810	1-218-985-11	RES-CHIP	470K	5%	1/16W
R811	1-218-990-11	SHORT	0		
R812	1-218-990-11	SHORT	0		
R813	1-218-990-11	SHORT	0		
R814	1-218-990-11	SHORT	0		
R815	1-218-990-11	SHORT	0		
R816	1-218-990-11	SHORT	0		
R817	1-218-990-11	SHORT	0		
R818	1-218-990-11	SHORT	0		
R819	1-218-990-11	SHORT	0		
R821	1-218-965-11	RES-CHIP	10K	5%	1/16W
R823	1-218-990-11	SHORT	0		
R825	1-218-977-11	RES-CHIP	100K	5%	1/16W
R826	1-218-985-11	RES-CHIP	470K	5%	1/16W
R827	1-218-981-11	RES-CHIP	220K	5%	1/16W
R828	1-218-965-11	RES-CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< SWITCH >				MISCELLANEOUS *****	
S101	1-572-922-11	SWITCH, SLIDE (MIC SENS)		MIC101	1-476-484-11	MICROPHONE UNIT, ELECTRET CAP	
S701	1-692-605-11	SWITCH, SLIDE (PLAY SPEED)		SP101	1-529-901-11	SPEAKER (3.2CM)	
S702	1-572-922-11	SWITCH, SLIDE (VOR)				ACCESSORIES *****	
		< VIBRATOR >					
X801	1-795-117-11	VIBRATOR, CRYSTAL 24MHz					

*	1-680-352-12	P-SW BOARD *****		*	1-757-412-21	CORD, CONNECTION (USB)	
		< RESISTOR >			3-226-900-12	CD-ROM (Digital Voice Editor Software Ver 1.2)	
R721	1-218-969-11	RES-CHIP 22K 5% 1/16W			3-240-347-11	MANUAL, INSTRUCTION (BP350)(ENGLISH)	
R722	1-218-965-11	RES-CHIP 10K 5% 1/16W			3-240-347-21	MANUAL, INSTRUCTION (BP350)(TRADITIONAL CHINISE)	
R723	1-218-957-11	RES-CHIP 2.2K 5% 1/16W			3-240-347-31	MANUAL, INSTRUCTION (BP350)(SIMPLIFIED CHINISE)	
R724	1-218-961-11	RES-CHIP 4.7K 5% 1/16W			3-240-347-41	MANUAL, INSTRUCTION (BP350)(KOREAN)	
R725	1-218-957-11	RES-CHIP 2.2K 5% 1/16W			3-240-358-11	MANUAL, INSTRUCTION (BP150)(ENGLISH)	
R726	1-218-957-11	RES-CHIP 2.2K 5% 1/16W			3-240-358-21	MANUAL, INSTRUCTION (BP150:Canadian,AEP)(FRENCH)	
		< SWITCH >			3-240-358-31	MANUAL, INSTRUCTION (BP150:AEP,E)(SPANISH)	
S721	1-771-053-11	SWITCH, KEY BOARD (●)			3-240-358-41	MANUAL, INSTRUCTION (BP150:AEP)(PORTUGUESE)	
S722	1-771-053-11	SWITCH, KEY BOARD (■)			3-240-358-511	MANUAL, INSTRUCTION (BP150:AEP)(GERMAN)	
S723	1-771-053-11	SWITCH, KEY BOARD (▶▶)			3-240-358-61	MANUAL, INSTRUCTION (BP150:AEP)(DUTCH)	
S724	1-771-053-11	SWITCH, KEY BOARD (▶■)			3-240-358-71	MANUAL, INSTRUCTION (BP150:AEP)(SWEDISH)	
S725	1-771-053-11	SWITCH, KEY BOARD (◀◀)			3-240-358-81	MANUAL, INSTRUCTION (BP150:AEP)(ITALIAN)	
S726	1-572-922-11	SWITCH, SLIDE (HOLD ▶)			3-241-639-01	CASE, CARRYING	

					8-953-301-92	RECEIVER,EAR MDR-E805LP/K2 SET	

REVISION HISTORY

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