SPP-ID975/ID976

Ver 1.0 1999. 11 SERVICE MANUAL

US Model SPP-ID975 Canadian Model SPP-ID976



Photo: SPP-ID975

SPECIFICATIONS

General

Frequency band (SPP-ID975)

902 - 928 MHz

Frequency band (SPP-ID976) 923.1 - 927.75 MHz

Base phone : $18\,\mu W$

Handset : 73 µW

Operating channel 30 channels

Dial signal

Tone, 10 PPS (pulse) selectable

Supplied accessories

AC power adaptor AC-T122 (1)

Telephone line cords (2)

Wall bracket for base phone (1)

Rechargeable battery pack BP-T23 (1)

Handset

Power source

Rechargeable battery pack BP-T23

Battery charging time

Approx. 12 hours

Battery life

Standby: Approx. 7 days

: Approx. 6 hours Talk

Dimensions

Approx. $58 \times 177 \times 46 \text{ mm (w/h/d)},$

antenna excluded

(approx. 2 $3/8 \times 7 \times 1$ 13/16 inches) Antenna: Approx. 72 mm

(approx. 2 7/8 inches)

Approx. 270 g

(approx. 9.5 oz), battery included

Base phone

Power source

DC 9V from AC power adaptor

AC-T122 Battery charging time

Approx. 24 hours

Approx. $166 \times 63 \times 225 \text{ mm (w/h/d)},$

antenna excluded

(approx. $6.5/8 \times 2.1/2 \times 8.7/8$ inches) Antenna: Approx. 120 mm

(approx. 4 3/4 inches)

Approx. 595 g

(approx. 1 lb 9 oz), wall bracket excluded

Design and specifications are subject to change without notice.

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.

CORDLESS TELEPHONE



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

For schematic diagrams

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1/4}\,\text{W}$ or less unless otherwise specified.
- i : panel designation.
- **B** + : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack. (BASE PHONE)
- Power voltage is dc 12 V and fed with regulated dc power supply from J1008 with 100 Ω in series. (BASE PHONE)
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal. (HANDSET)
- Voltage is dc with respect to ground under no-signal condition.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
 Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : TX (To Tel Line) : RX (From Tel Line)
- : bell

For printed wiring boards

- • : parts extracted from the component side.
- Through hole.
- ": Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:

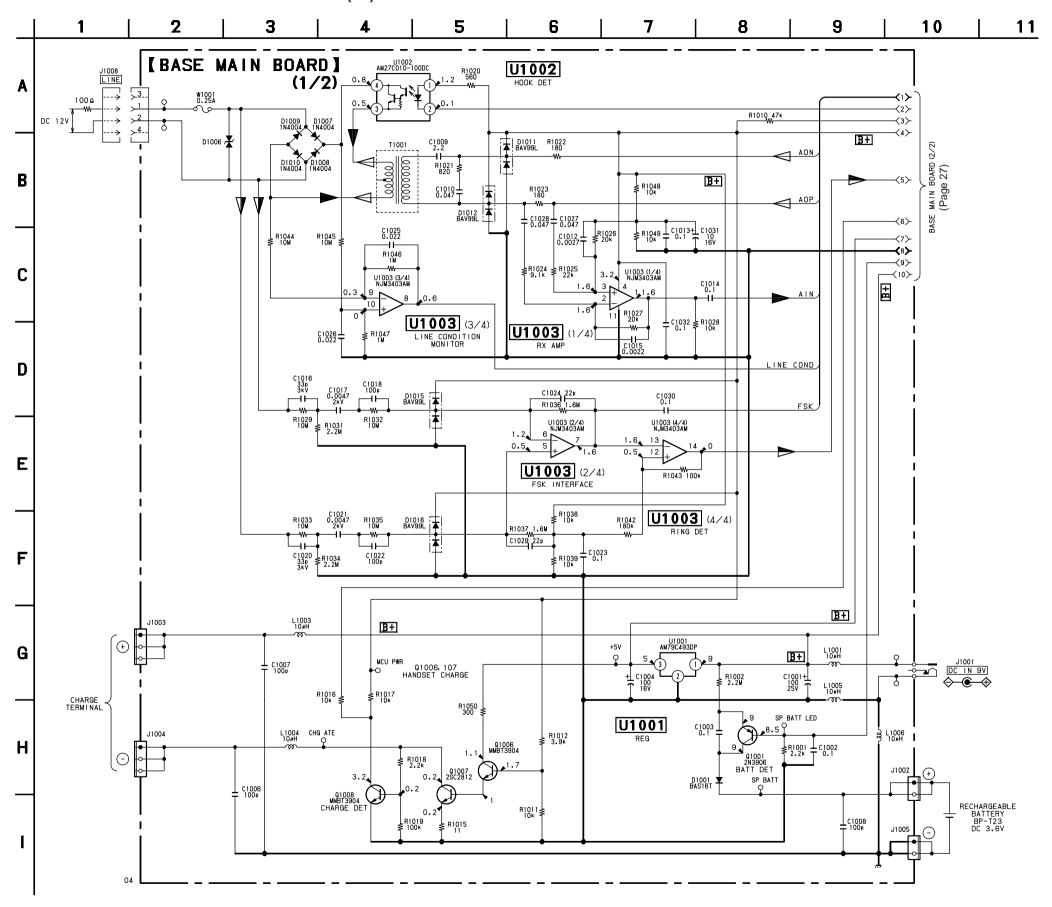
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.

(Side B) pattern face are indicated.

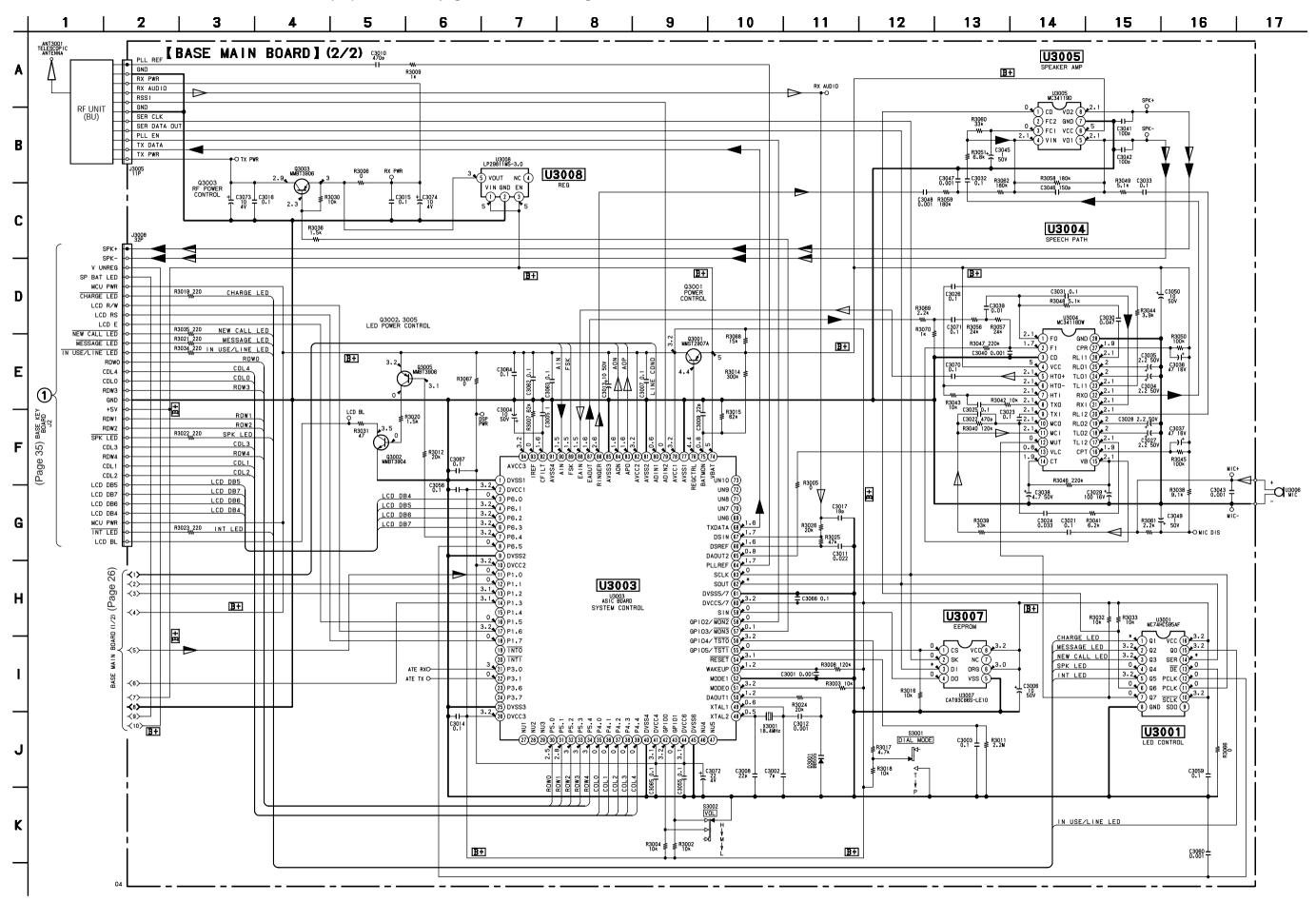
Parts face side: Parts on the parts face side seen from the

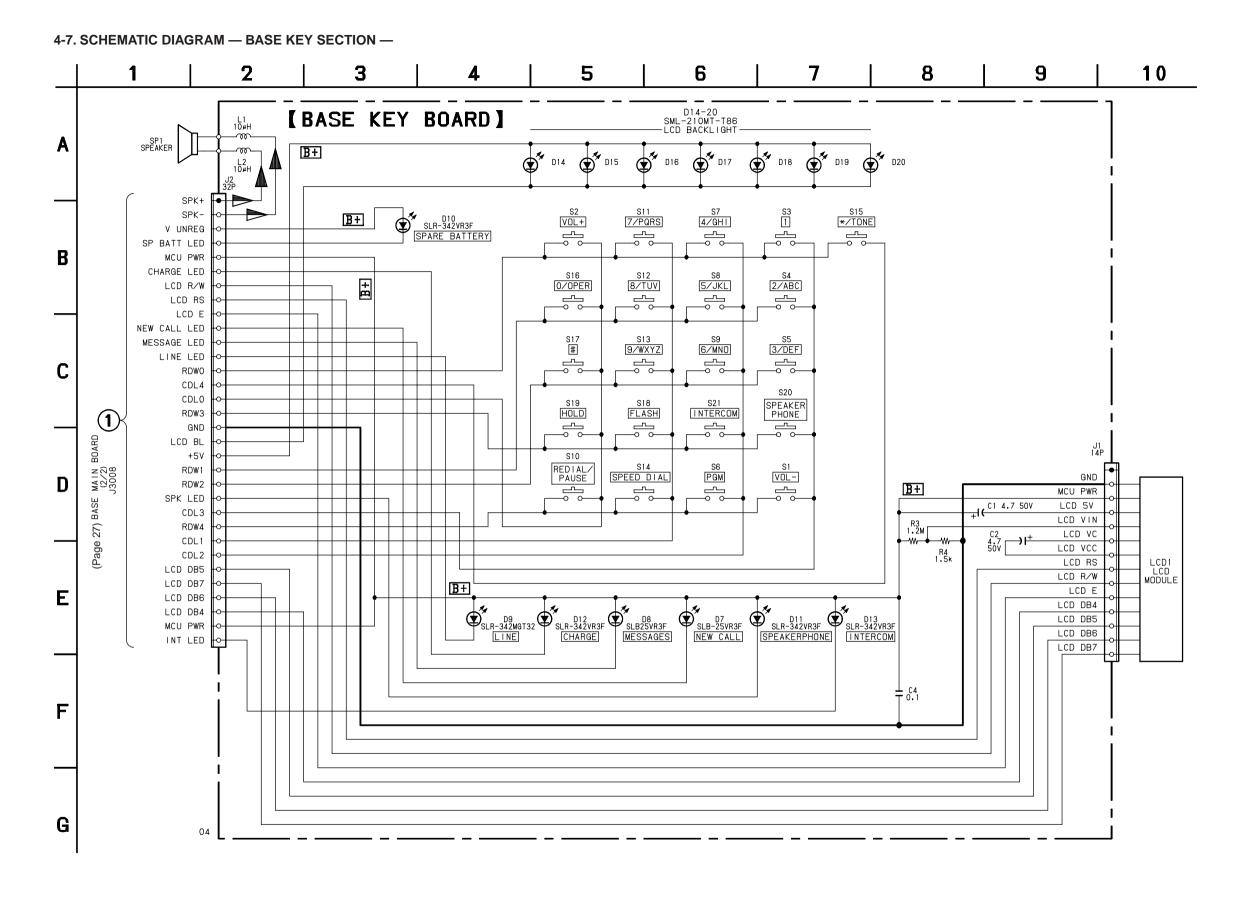
Parts face side: Parts on the parts face si (Side A) parts face are indicated.

4-3. SCHEMATIC DIAGRAM — BASE MAIN SECTION (1/2) —

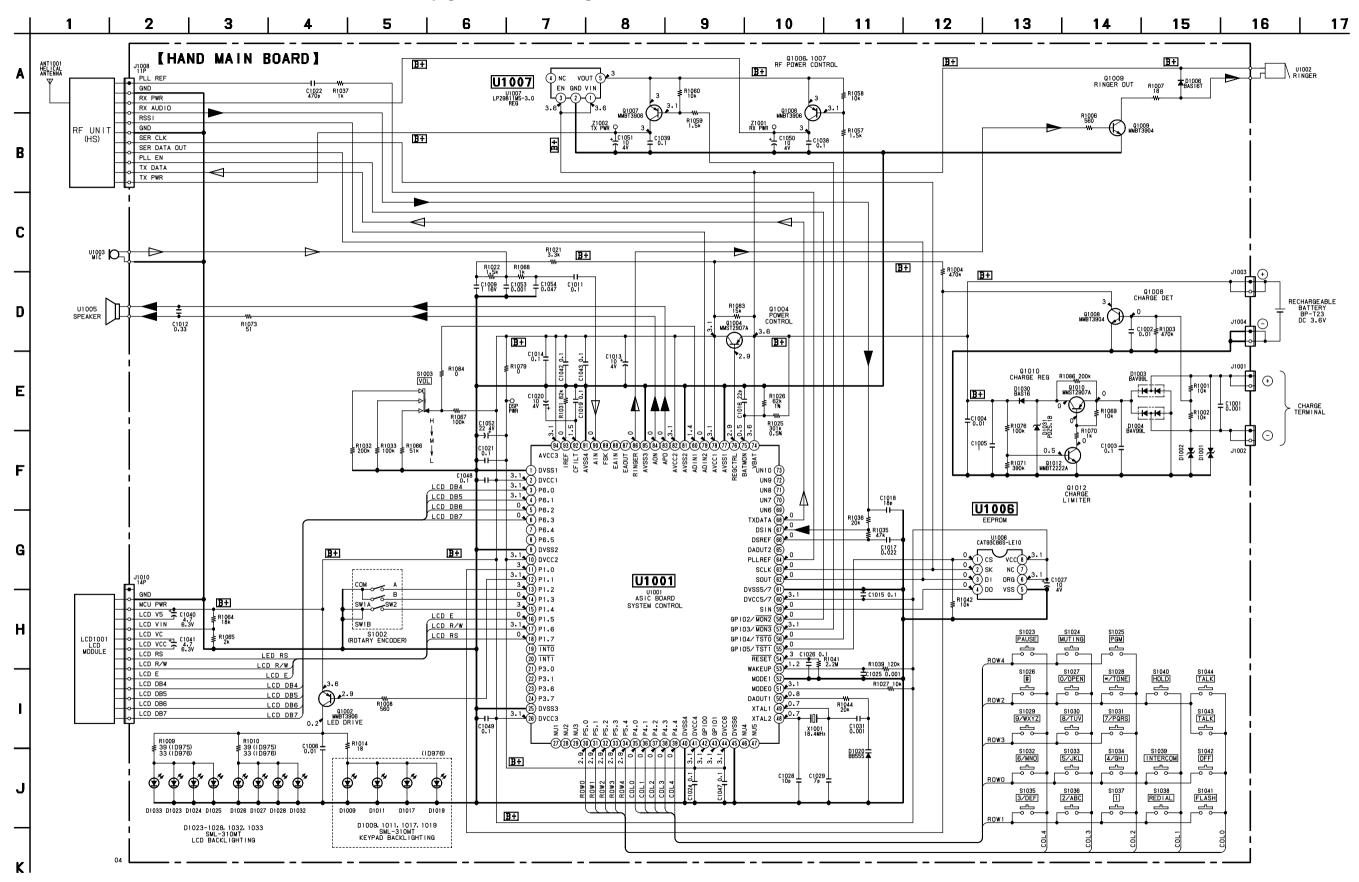


4-4. SCHEMATIC DIAGRAM — BASE MAIN SECTION (2/2) — • Refer to page 41 for IC Block Diagrams.





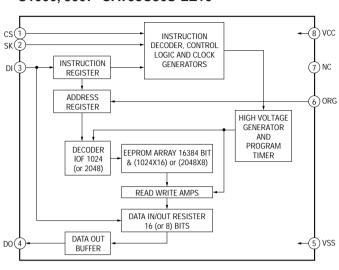
4-9. SCHEMATIC DIAGRAM — HAND MAIN SECTION — • Refer to page 41 for IC Block Diagrams.



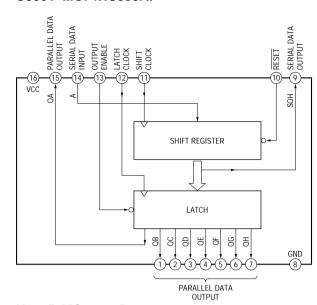
SECTION 5 EXPLODED VIEWS

• IC Block Diagrams

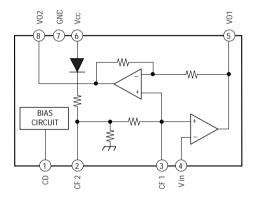
U1006, 3007 CAT93C86S-LE10



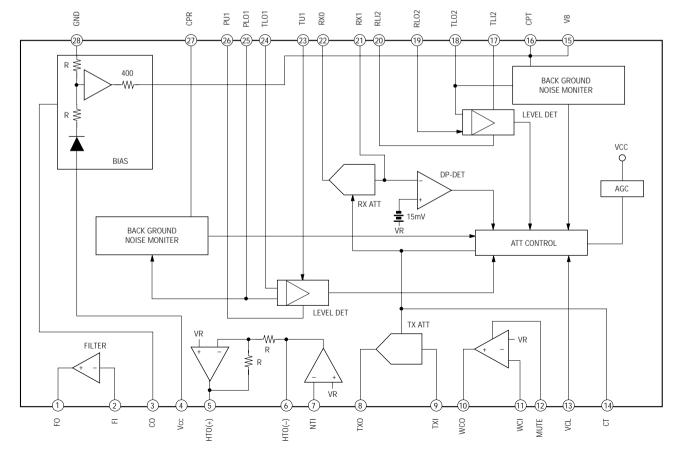
U3001 MC74HC595AF



U3005 MC34119D



U3004 MC34118DW



NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

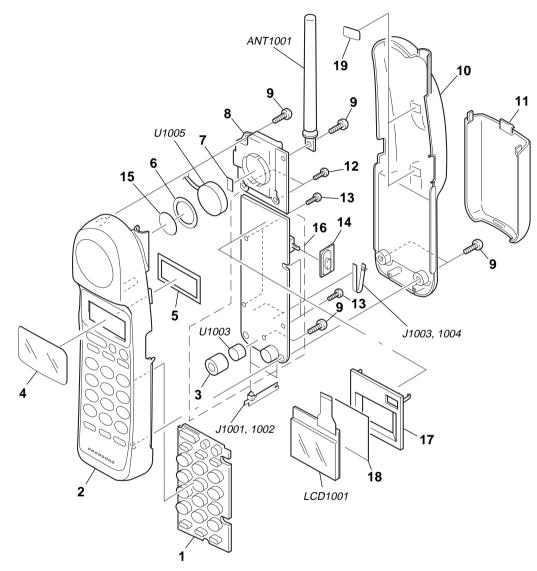
KNOB, BALANCE (WHITE) ... (RED)

↑

Parts Color Cabinet's Color

• Accessories and packing materials are given in the last of this parts list.

5-1. HANDSET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 1 2 3 4	3-038-148-01	KEY (HS), RUBBER (ID975) KEY (HS), RUBBER (ID976) CASE (FR)		15 * 16 * 16 17	3-041-535-01 A-3672-876-A	•	75)
5 6 7 8 9	3-041-520-01 3-041-537-01	HOLDER (HS), LCD RING, CUSHION RECEIVER CUSHION, SPEAKER RF UNIT (HS)		19	3-041-547-01 1-754-103-11	COVER (HS), HOOK ANTENNA TERMINAL, CHARGE TERMINAL, CHARGE TERMINAL, BATTERY	
10 11 12 13 14				J1004 LCD1001 U1003 U1005	3-041-210-01 1-803-832-11 1-542-260-31 1-505-593-11	TERMINAL, BATTERY LCD MODULE MICROPHONE, ELECTRET CONDENSE SPEAKER (2.8cm)	R