

SF-5580/5780/5980_(ZX-876)

AUG. 1996



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CONTENTS

1. GENERAL GUIDE, RESET ORERATION & BATTERY REPLACEMENT	1
2. SPECIFICATIONS	7
3. DATA COMMUNICATIONS	9
4. ERROR MESSAGES	13
5. OPERATION CHECK	14
6. SCHEMATIC DIAGRAMS	
6-1.Z876-1 ASS'Y (1/4)	17
Z876-1 ASS'Y (2/4)	18
Z876-1 ASS'Y (3/4)	19
Z876-1 ASS'Y (4/4)	20
6-2. Z876-2 ASS'Y (1/2)	21
Z876-2 ASS'Y (2/2)	22
7. LSI PIN FUNCTION	23
8. DISASSEMBLY	24
9. PARTS LIST	27
10. EXPLODED VIEW	30

1. GENERAL GUIDE, RESET OPERATION & BATTERY REPLACEMENT



Display

When lighting is dim, you can turn on an EL (electro-luminescent) backlight for easier viewing.

To turn on the EL backlight

Press the **LIGHT** key to light up the display for about 15 seconds. Pressing **LIGHT** while the EL backlight is on turns it off.

Display Indicators



All-Reset

Use the following procedure to reset the unit to its initial settings.

Important!

- Do not use a very sharp pencil or other object to press the RESET button.
- Be sure to reset the unit before using it for the first time.
- Perform the reset operation only after main batteries and back-up battery are correctly installed.
- Be sure to press the RESET button (page 2) after loading main batteries for the first time or if the previous set of batteries went dead.

To start the all-reset operation

- 1. Turn power off.
- 2. Press the RESET button on the back of the Digital Diary with a thin, pointed object.



3. Now you should press **Y** for "yes" or **N** for "no" in accordance with the conditions described below.

When to press Y for "yes"

- When this is the first time you are using the unit.
- When you want to reset the unit and clear all data and settings.
- When you are resetting the unit after a data error (page 13).
- 1. Press **Y** in response to the message that appears on the display when you start the all-reset operation.



- 2. Press **OK** to reset the Digital Diary or **ESC** to abort.
- At this time the message "SET TIME!" appears.
- After about two seconds, the Home Time screen appears.
- 3. Press **FUNC**, select "Time set", and then use the procedure on page 18 of Owner's Manual to set the Home Time.
- If you turn power off without setting the Home Time, the "SET TIME!" message appears the next time you turn power on. The Digital Diary will not operate properly until you set the Home Time.

When to press N for "no"

- After replacing the main batteries.
- When you are not resetting the unit to clear all data and settings.
- When you are not resetting the unit after a data error (page 13).
- 1. Press **N** in response to the message that appears on the display when you start the all-reset operation.
- At this time the message "SET TIME!" appears.
- After about two seconds, the Home Time screen appears.

- 2. Press **FUNC**, select "Time set", and then use the procedure on page 18 of Owner's Manual to set the Home Time.
- If you turn power off without setting the Home Time, the "SET TIME!" message appears the next time you turn power on. The Digital Diary will not operate properly until you set the Home Time.
- Following are the initial settings of the unit after you perform the all-reset operation.

Home Time:	New York
	JAN 1, 1996 (MON)
	12:00 AM
	12-hour format
World Time:	London
Daily Alarm:	12:00 AM
Sound:	Daily alarm — OFF
	Key — ON
Messages:	English
Character input:	CAPS — OFF

Power Supply

Your Digital Diary is powered by two AAA-size batteries, and its memory is protected by a single CR2032 lithium battery.

Low battery Warning

The message, "MAIN BATTERIES WEAK! REPLACE THEM! UNIT WILL NOT TURN ON AGAIN!" appears when battery power is low. Replace the main batteries immediately after this message appears.

Important!

- After the low battery message appears on the display, the unit automatically turns off in about 10 seconds and will not turn back on again until you replace batteries.
- Never replace main batteries while the Digital Diary is turned on (while there are figures on the display).
- There is not low battery warning for the back-up battery. Be sure to replace the back-up battery once every 5 years.
- Be sure you keep a separate copy of all important data that you store in the Digital Diary.

Battery Precautions

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the Digital Diary. Note the following precautions.

- Be sure that the positive (+) side of each battery is facing in the correct directions.
- Never mix batteries of different types.
- Never mix old batteries and new ones.
- Do not expose batteries to direct heat, let them become shorted, or try to take them apart.
- Never leave dead batteries in the battery compartment.
- Remove batteries if you do not play to use the unit for a long time.
- Replace batteries at least once every five years, no matter how much you use the unit during that period.
- Never try to recharge the batteries that come with the unit.
- Should a battery leak, clean out the battery compartment of the unit immediately, taking care to avoid letting battery fluid come into direct contact with your skin.

Keep batteries out of the reach of small children. If swallowed, consult with a physician immediately.

To replace the main batteries

Important!

- Do not remove the main batteries from the Digital Diary while the back-up battery is removed.
- Be sure to replace both batteries with two new ones. Do not mix an old battery with a new one.
- Be sure to press the RESET button (page 2) after loading main batteries for the first time or if the previous set of batteries went dead.
- 1. Press OFF to turn power off.
- 2. Remove the screw that holds the battery compartment cover in place and open the cover.



- 3. Remove both old batteries and replace them with new ones.
- Make sure that the positive (+) and negative (-) ends are facing correctly.
- 4. Replace the battery compartment cover and secure it with its screw.
- Take care that you do not overtighten the screw.
- 5. Press the RESET button.
- This causes the message "ARE YOU USING A NEW UNIT FOR THE FIRST TIME (Y/N)?" to appear. Be sure to press **N** in response to this message (pressing **Y** will delete all data in memory). Next, continue with the procedures in the section title "All-Reset" on page 2.

To replace the back-up battery

Important!

- Do not remove the back-up battery from the Digital Diary while the main batteries are removed.
- Be sure to replace the back-up battery at least once every 5 years. Otherwise, you run the risk of losing data stored in memory.
- 1. Press **OFF** to turn power off.
- 2. Remove the screw that holds the back-up battery compartment cover in place and open the cover.



3. Insert a thin, pointed object into (A) and remove the old battery.



- 4. Load a new battery into the compartment, making sure that its positive side is facing up (so you can see it).
- 5. Replace the battery compartment cover and secure it with its screw.
- Take care that you do not overtighten the screw.

■ Turning Power On and Off

Press ON/OFF to turn power on and off.

Important!

• If nothing appears on the display when you turn on power, it means that the main batteries are low. Replace the batteries (page 4) and press the RESET button to resume normal operation.

Auto Power Off Function

The unit automatically turns power off if you do not press any key for about three minutes. Any alarms you set still sound, even if power is turned off.

Function Menus

- Pressing FUNC displays a function menu, whose contents differs depending on the mode.
- Pressing SHIFT FUNC displays a function menu of general system settings (system function menu).
- Input the number of the left of the function you want to use to select it.
- To exit from a function menu, press **ESC**.

System Language

Your Digital Diary is capable of producing messages in any one of three languages (English, French, Spanish).

To select the system language

- 1. Press SHIFT FUNC and then select "Language".
- 2. Press the number key that corresponds to the language that you want to use.
- To select "ENGLISH", you would press 1.
- The system language automatically changes to English whenever you perform the RESET operation (page 2).

Note

• In this manual, all display messages are shown in English.

■ Display Contrast

Use the following procedure to make the figures on the display darker or lighter.

To adjust display contrast

- 1. Press SHIFT FUNC and then select "Display contrast".
- 2. Use \blacktriangleleft and \blacktriangleright to make display images darker or lighter.
- 3. Press OK to quit.

Key Input Sound

When the key input sound is turned on, your Digital Diary emits a beep each time you press one of its keys.

To turn key input sound on and off

1. Press SHIFT FUNC and then select "Key tone."



- 2. Use \blacktriangleleft and \blacktriangleright to turn the key input sound on and off.
- The KEY b indicator is on the display while the key input sound is on.
- 3. Press OK to quit.

■ Destructive Backspace

When destructive backspace is turned on, the character at the cursor position is deleted when you press the **BS** key.

To turn destructive backspace on and off

- 1. Press SHIFT FUNC and then select "Backspace".
- 2. Use \blacktriangleleft and \blacktriangleright to turn destructive backspace on and off.
- 3. Press OK to quit.

2. SPECIFICATIONS

SF-5580/SF-5780/SF-5980

Main Modes:

Model:

Telephone Directory, Memo, Schedule Keeper, To Do, Expense Manager, Reminder, Calendar, Home Time, World Time, Calculator, Conversion (metric/currency) and Game (Poker/Blackjack)

Data storage:

Storage and recall of telephone, memo, schedule, to do, expense, reminder data; calendar display; editing; memory status display

Clock:

World time; reminder alarm; schedule alarm; daily alarm; accuracy under normal temperatures: ± 3 seconds average

Calculation:

12-digit arithmetic calculations; arithmetic constants (+, –, \times , \div); independent memory; percentages; square roots; other mixed calculations

General:

Memory capacity:SF-5580: 128 KB SF-5780: 256 KB SF-5980: 512 KBMain component:LSIPower supply: Main: Back-up:Two AAA-size batteries (Type: LR03 (AM4)) One CR2032 lithium batteryBattery life: Main:In Telephone Mode, approximately 100 hours continuous display approximately 70 hours with 5 minutes operation and 55 minute continuous display per hour; approximately 60 hours with 5 minutes operation and 55 minute source operation and 52 minutes continuous display, and 3 minute backlight operation per hour Back-up:Power consumption: Main (Input voltage = 3.0 V):Telephone top menu (Light from EL doesn't shine)- 3.9 mA (TYP.)/4.8 mA (MAX.) Telephone top menu (Light from EL shines)- 27 mA (TYP.)/4.8 mA (MAX.) OFF-90 µA (TYP.)/120 µA (MAX.) Atuto power off:Approximately 3 minutes after last key operation 0 °C ~ 40 °C (30 °F ~ 104 °F)Dimensions: Unfolded: Folded:Unfolded: 2.1.5H × 163W × 169D mm (% "H × 67/16"W × 65%"D) Folded:SH × 163 W × 169D mm (% "H × 67/16"W × 35%"D) Yeing (8.9 oz) including batteries	Display element:		26-column \times	8-line LCD	
Main component: LSI Power supply: Two AAA-size batteries (Type: LR03 (AM4)) Back-up: One CR2032 lithium battery Battery life: In Telephone Mode, approximately 100 hours continuous display approximately 70 hours with 5 minutes operation and 55 minute continuous display per hour; approximately 60 hours with 5 minutes operation and 52 minutes operation and 52 minutes operation and 52 minutes backlight operation per hour; Back-up: 5 years if main batteries are replaced as soon as they becomweak. 6 months if dead main batteries are left in the unit. Power consumption: 0.25 W Current consumption: 0.25 W Main (Input voltage = 3.0 V): Telephone top menu (Light from EL doesn't shine)-3.9 mA (TYP.)/4.8 mA (MAX.) Telephone top menu (Light from EL shines)-27 mA (TYP.)/38 mA (MAX.) OFF-90 µA (TYP.)/120 µA (MAX.) Back-up (Input voltage = 3.0 V): 18 µA (TYP.)/40 µA (MAX.) OFF-90 µA (TYP.)/120 µA (MAX.) Auto power off: Approximately 3 minutes after last key operation Operating temperature: 0 °C ~ 40 °C (30 °F ~ 104 °F) Dimensions: Unfolded: 8.8H × 163 W × 169D mm (³/a "H × 67/16"W × 65/a"D) 21.5H × 163W × 91.5D mm (7/a"H × 67/16"W × 35/a"D) Weight: 251 g (8.9 oz) including batteries	Memory capacity:		SF-5580: 128 KB SF-5780: 256 KB SF-5980: 512 KB		
Power supply: Main: Back-up:Two AAA-size batteries (Type: LR03 (AM4)) Back-up:Battery life: Main:In Telephone Mode, approximately 100 hours continuous display approximately 70 hours with 5 minutes operation and 55 minute continuous display per hour; approximately 60 hours with 5 minutes operation and 52 minutes continuous display, and 3 minute 	Main comp	onent:	LSI		
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	Weight:		251 g (8.9 oz) including batteries		

Memory Capacity

Memory capacity differs according to model.

Model Memory

SF-5580:	128 Kbyte
SF-5780:	256 Kbyte
SF-5980:	512 Kbyte

The following shows the number of items that can be stored in each model.

Telephone Directory

8-character name, 10-character Phone 1 number SF-5580/SF-5780/SF-5980: 4,000/9,000/19,000

8-character name, 10-character Phone 1 number, 20-character address SF-5580/SF-5780/SF-5980: 2,000/4,500/9,500

Memo

20-character memo SF-5580/SF-5780/SF-5980: 3,400/7,700/16,000

To Do

20-character description	
SF-5580/SF-5780/SF-5980:	3,200/7,200/15,200

Schedule Keeper

20-character description, ala	arm time setting
SF-5580/SF-5780/SF-5980:	2,900/6,500/13,500

Reminder

10-character description SF-5580/SF-5780/SF-5980: 5,000/11,250/23,800

Expense Manager

 10-character description

 SF-5580/SF-5780/SF-5980:
 3,500/7,900/18,600

3. DATA COMMUNICATIONS

You can transfer data between two CASIO SF-5580,SF-5780, or SF-5980 units, or between your Digital Diary and a personal computer only. <u>You cannot exchange data with any other CASIO Digital Diary model.</u> Data communications can be performed while in the Telephone Directory, Memo, Schedule Keeper, Calender, To Do, Reminder, or Expense Manager Mode.

■ Setting Up for Data Communications

The following describes what you would do to set up for data communications between two Digital Diary units or between a Digital Diary unit and a personal computer.

To connect to another Digital Diary unit

- 1. Make sure that the power of both units is turned off.
- 2. Remove the covers from the data communications jacks on the two Digital Diary units.
- 3. Connect the two units using the SB-62 cable.



Important!

• Be sure to replace the connector covers on the Digital Diary units when you are not perfoming data communications.

Performing data communications between a Digital Diary unit and a personal computer

You must purchase an optional CASIO Data Communication Package in order to perform data communication between your Digital Diary unit and a personal computer. Please note that there are a number of different CASIO Data Communication packages to suit various computers and Digital Diary types. Because of this, you should note the following important points when purchasing a Data Communication Package. If you have any question about which package you need, consult with a expert.

- Make sure the Data Communication Package (FA-127) is designed for you with your particular model of personal computer.
- For information on how to connect the Digital Diary to a personal computer, see the user's manual that comes with the Data Communication Package (FA-127).

REMARK: FA-127 is the Personal Computer Link (software and cable unit) for <u>Windows</u>.

To set up the Digital Diary to receive data

- 1. While any screen is displayed, press FUNC (or SHIFT FUNC) and then select "Receive data".
- You can perform the above operation in the Telephone Directory, Memo, Schedule Keeper, Calendar, To Do, Reminder, or Expense Manager Mode.



2. Press Y.



- This message indicates that the unit is standing by to receive data.
- To abort the receive operation, press ESC.
- This procedure is the same regardless of whether data is being received from another Digital Diary unit or from a personal computer.

Sending Data

This section tells you how to operate the Digital Diary to send data to another unit or to a personal computer.

About data transfer types...

There are a number of ways you can transfer data.

All Data Items

With this method, you can send all data items stored in the Telephone Directory, Memo, Schedule Keeper, Calendar, To Do, Reminder, or Expense Manager Mode.

Mode Data Items

With this method, you can send all data items stored in specific modes (Telephone Directory, Memo, Schedule Keeper, Calendar, To Do, Reminder, Expense Manager). In the Schedule Keeper Mode, you can send items that appear on the index display (which you specified using the function menu's List type item).

One Data Item

With this method, you can send one data item stored in the Telephone Directory, Memo, Schedule Keeper, To Do, Reminder, or Expense Manager Mode.

Notes

- For Calendar Mode data, you can send highlight data.
- If an alarm (Daily Alarm, Schedule Alarm, or Reminder Alarm) is reached while data is being sent, the alarm does not sound until the data send operation is complete.

To send one data item

- 1. Display the data display of the item you want to send.
- 2. Press FUNC and then select "Send record".
- A message appears asking if you are ready to send.
- 3. Press Y to start the send operation, or N to abort.
- To interrupt the send operation at any time, press ESC.
- After the send operation is complete, the display returns to the screen that was on the display before you started the send operation. Then you can repeat the above procedure to send another item.

Pointer (selected file)

To send all data items in specific modes

1. Press **SHIFT FUNC** and then select "Send all".

			va mo,
Send Telephone Schedule Todo Memo Calendar Reminder Expense	all	files Yes Yes Yes Yes Yes Yes Yes Yes	00000000

Marker (current setting)

- Use ▲ and ▼ to move the pointer to the mode whose data items you want to send, and then use ◄ and ► to change the setting.
- Data in modes set to "Yes" will be sent, while data in modes set to "No" will not.
- 3. Press OK.
- A message appears asking if you are ready to send.
- 4. Press Y to start the send operation, or N to abort.
- To interrupt the send operation at any time, press ESC.
- After the send operation is complete, the display returns to the screen that was on the display before you started the send operation.

To send Calender data (highlights)

- 1. In the Calender Mode, press FUNC and then select "Send (Holidays)".
- A message appears asking if you are ready to send.
- 2. Press Y to start the send operation, or N to abort.
- To interrupt the send operation at any time, press ESC.
- After the send operation is complete, the display returns to the screen that was on the display before you started the send operation. Then you can repeat the above procedure to send another item.

Send All Data Items In a Mode

The procedure you should use depends on whether the file whose data items you are sending has multiple files (Telephone Directory, Memo, To DO, Expense Manager) or not (Schedule, Reminder).

To send all data items from a multiple file mode (Telephone Directory, Memo, To Do, Expense Manager)

- 1. Display the initial screen of the mode that contains the data you want to send.
- You can display the initial screen for any file.

2. Press FUNC and then select "Send all files".



- 3. Use ▲ and ▼ to move the pointer to the file whose data you want to send, and then use ◄ and ► to change the setting.
- Files set to "Yes" will be sent, while those set to "No" will not.
- 4. Press OK.
- At this time the message "READY TO SEND (Y/N)?" appears.
- 5. Press Y to send or N to abort.
- In the Telephone Directory, Memo, and To Do Modes you can also use another method to send all data items. While the index display or data display is on the screen, press FUNC and then select "Send all records". This causes the message "READY TO SEND (Y/N)?" to appear, so press Y to send or N to abort.

To send all data items from a single file mode (Schedule Keeper, Reminder)

- 1. Display the initial screen of the mode that contains the data you want to send.
- 2. Press FUNC and then select "Send all records".
- At this time the message "READY TO SEND (Y/N)?" appears.
- 3. Press Y to send or N to abort.

To send listed records in the Schedule Keeper Mode

- 1. Enter the Schedule Keeper Mode and specify the items you want to send in the index display contents.
- See "To specify Schedule Keeper Mode index display contents" on this page.
- 2. While the Schedule Keeper Mode index display is on the screen, press **FUNC** and then select "Send listed records".
- At this time the message "READY TO SEND (Y/N)?" appears.
- 3. Press Y to send or N to abort.

■ To specify Schedule Keeper Mode index display contents

- 1. Press **SCHEDULE** to display the initial Schedule Keeper Mode screen, and then press ▲, ▼, ★, or ↓ to change to the index display.
- 2. Press FUNC and then select "List type".

Pointer (Selecte	eu type)	
SCH TYPE 1 SCH TYPE 2 SCH TYPE 3 SCH TYPE 4 SCH TYPE 5 SCH TYPE 6 SCH TYPE 7 SCH TYPE 8	Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No	(Current setting)

- Use ▲ and ▼ to move the pointer next to the schedule type you want to change, and then use ◄ and ► to change the setting.
- Schedule types set to "Yes" appear in the index display, while those set to "No" do not.

Deinter (colocted type)

4. Press **OK** to quit and return to the index display.

4. ERROR MESSAGES

Data Error Message

The data error message appears whenever the Digital Diary's internal check discovers a problem with data stored in memory.



Appearance of the data error message indicates that you must perform the all-reset procedure to correct the problem. Start out with the procedure under "To start the all-reset operation" on page 2, and continue with the procedure under "When to press **Y** for "Yes" on page 2".

Important!

• Even though you are not using the unit for the first time, you must press **Y** (for "Yes") when the unit asks "ARE YOU USING A NEW UNIT FOR THE FIRST TIME (Y/N)?" in order to reset the unit after a data error occurs.

If you still have trouble after trying the RESET operation, you may have a hardware problem. If so, consult with your nearest CASIO dealer.

Message	Meaning	Action	
NOT FOUND! PRESS ESC TO QUIT.	Data specified in search operation does not exist in memory.	Change specification or cancel search.	
MEMORY FULL, PRESS ANY KEY.	No more room in memory for stor- age of data.	Delete unnecessary data items from memory.	
ALARM TIME COINCIDENT!	Attempt to set an alarm that is al- ready used for another entry.	Set a different alarm time or change the existing alarm time.	
ALARM TIME ALREADY PASSED!	Attempt to set an alarm for a time or data that is already passed.	Set a different alarm time.	
DATA COMM. ERROR, PRESS ANY KEY!	Error during data communica- tions.	Cancel the operation and try again.	
ARE YOU USING A NEW UNIT FOR THE FIRST TIME (Y/N)?	The reset procedure has started.	See page 2.	
CLEAR MEMORY AND SET UP UNIT FOR OPERATION? YES (OK)/NO (ESC)	The reset procedure is in progress.	See page 2.	
DATA ERROR! CHECK YOUR OWNER'S MANUAL FOR PROCEDURE!	Data corrupted by strong impact, electrostatic charge, etc	See this page.	
MAIN BATTERIES WEAK! REPLACE THEM! UNIT WILL NOT TURN ON AGAIN!	The main batteries are getting weak.	Replace main batteries imme- diately (page 4).	

■ Message Table

5. OPERATION CHECK

REMARKS:

- 1. Executing this check, the data stored in this Digital Diary disappear. So if you won't disappear this important data, you should store its data in another Digital Diary (SF-5580/-5780/-5980) referring to the item 3. Data communications in this manual.
- 2. You can not put out the light from EL while executing this check.

LCD CHECK



• ROM CHECK

5 Wait 4 ~ 5 seconds, then press **OK** button.

LCD display ----- ROM TEST ROM OK

• RAM CHECK

6 Press **OK** button.

LCD display **CONTEST ROM OK**

⑦ Wait about 45 ~ 50 seconds.

In the case of SF-5580, ROM TEST ROM OK LCD display RAM TEST 128K OK In the case of SF-5780, ROM TEST ROM OK LCD display RAM TEST 128K OK 2N D RAM TEST 128K OK , or LCD display ROM TEST ROM OK RAM TEST 256K OK In the case of SF-5980, LCD display ROM TEST ROM OK ≁ RAM TEST 512K OK

• KEY CHECK

(8) Press **OK** button.

(9) Press any button. For example, press **TEL** button.

		ROM	TEST	ROM (ЭΚ
LCD display	── ► {	RAM	TEST	XXX K	ОΚ
		KEY ⁻	TEST	TEL	

After pressing any button, LCD displays a letter or a number correspond to its button. Check all keys (buttons) in this way except to **OK** button.

COMMUNICATION CHECK

0 Press OK button.

LCD display	 ROM TEST RAM TEST KEY TEST	ROM OK XXX K OK XXX
	1 COMM	2 ECHO

(1) Prepare another unit, then execute the procedure described above (1 ~ 10).

Another unit's LCD display →	ROM TEST ROM OK RAM TEST XXX K OK KEY TEST XXX
	1 COMM 2 ECHO
	— 15 —

- ② Connect two units using the SB-62 cable as shown by the item 3. DATA COMMUNICATIONS (page 9) in this manual.
- (13) Press **2** button on any unit (A).

This unit's LCD display	 ROM TEST RAM TEST KEY TEST	ROM OK XXX K OK XXX
		2 ECHO

(1) Then press 1 button on another unit (B).

Another unit's LCD display	 ROM TEST RAM TEST KEY TEST	T ROM O T XXX K XXX	K OK
	1 COMM	2 ECHO	ок

In the case of NG, LCD displays a letter "**FAIL**". If "**OK**" was displayed, another unit (B) transmitted data to any unit (A).

- (5) Pressing **ESC** buttons on the both units, return to the condition described in the item 12. LCD displays on the both units are the same as display shown in the item 11.
- (6) Next, try to transmit data from the unit (A) to the unit (B).
- 1 Return to the condition described in the item 1 using **ESC** button.
- (18) Pressing **ON/OFF** button twice, turn these units off.



- PLACE 0.1 $\mu F\,$ BETWEEN VCC TO GND FOR ALL IC INDIVIDUALLY AS CLOSE AS POSSIBLE



•





PLACE 0.1 μF FOR VCC TO GND FOR ALL IC INDIVIDUALLY AS CLOSE AS POSSIBLE







6-2. Z876-2 ASS'Y (2/2)

7. LSI PIN FUNCTION

CPU (LC868016A): U1

Pin No.	Name	1/0	Function
1	VDD		Power supply for this CPU
2~65	S1~48,C1~16	0	Common signals to LCD
66	V1	0	
67	V2	0	
68	V3	0	Bias power supply to LCD
69	V4	0	
70	V5	0	
71	VLCD	0	Power supply to LCD
78	VSS	_	Ground for this CPU
80	P41	0	Clock for LCD driver LCI(U2, U3:LC868900)
82	P43	0	Signal to LCD driver LSI(U2, U3:LC868900)(AC voltage is supplied to LCD by this
0.4	D 40		signal.)
84	P46	0	Read signal to RAM(U42, U62) and LCD driver LSI(U2, U3:LC868900)
85	P4/ D71		Detection of low batton voltage(-2.5V) from IC(U2:S80725)
90	P10	$\dot{}$	Serial data output to another unit or a personal computer
90	P11		Serial data output to another unit or a personal computer
03	D13	$\dot{\circ}$	Control signal to power supply $IC(DC/AC)$ inverter IC for EL. (H: EL-OEE/L: EL-ON)
95	P16	$\frac{0}{0}$	Control signal for buzzer/H: buzzer-ON/I: buzzer-OEE)
98	P57	$\overline{0}$	Chin select to LCD driver LSI/LI3:LC868900)
99	P56	ŏ	Chip select to LCD driver LSI(U2:LC868900)
101	P54	0	Clock to IC(118:74HC273) for the keyboard data latch
107	P53	ŏ	Control signal to LCD driver LSI(12, LI3:1, C868900)
102	P51	$\overline{0}$	Address bus to RAM/1142 1162)
105	P50	0	Address bus to ROM(US)
100		ŏ	Power supply for this CPU
100	P30	l ĭ	
107	P31		
100	P32		
100	P33		Signals for key assign from keyboard
111	P34		olghais for key assign from keyboard
112	P35		
112	P36		
114	P37		
115	P00	1/0	
116	P01	1/0	
117	P02	1/0	
118	P03	1/0	Address bus to the address data latch IC(LI7:74HC373)
119	P04	1/0	
120	P05	1/0	
121	P06	1/0	
122	P07	1/0	
123	P20	n n	
124	P21	ŏ	
125	P22	ň	
126	P23	ŏ	Address bus to ROM(U5) and RAM(U42, U62)
127	P24	ŏ	
128	P25	ŏ	
129	P26	ŏ	
130	P27	ŏ	
131	ADLC	õ	Control signal to the address data latch IC(U7:74HC373)
132	-EROE	ŏ	Chip select to ROM(U5)
133	-RST	Ť	Reset signal for this CPU and LCD driver LSI(U2, U3:LC868900)
134	XT1	l i	Timer clock for this CPU
135	XT2	Ó	
136	VSS	<u> </u>	Ground for this CPU
137	CF1		Main clock for this CPU
138	CF2	Ó	

8. DISASSEMBLY

1 Remove two screws then remove the battery cover.



② Remove three screws.



3 Open the unit and remove two screws behind the display plate.



④ Remove Lower cabinet (keyboard).



(8) Remove screws on PCB shown above then remove PCB ass'y.



9 Separate upper cabinets.



REMARK:

Heat seal and wires must be placed inside of the hinge in order for the Lower cabinet (keyboard) to fit into place.

If heat seal and wires are placed improperly, they are damaged.



9. PARTS LIST

N	ltem	Code No.	Parts Name	Specification	Version	Q	R	
	Z876-1 ASS'Y							
	* There are two types of Z876-1 ASS'Ys in SF-5780 (I, IYU, J)A type & B type.							
N N N N N N N N N N N N N	U7 U8 U62 * U42, U62 * U62 U42, U62 XT1 XT2 Q30 D2~D17 L3	2114 5771 2114 5770 2012 5520 2012 5520 2012 5519 2012 5519 2590 2691 2590 2690 2259 2712 2390 3005 6419 6420	TTL-IC TTL-IC LSI LSI LSI Oscillator Crystal oscillator Transistor Diode Coil	CMO-09-HC373 CMO-09-HC273 CMO-02-128NC-01 CMO-02-128NC-01 CMO-02-256SN-01 CMO-02-256SN-01 RER-01-12 QUA-02-26 TRR-01-M6 DIO-01-LS4148 COI-02-4720	Common Common E,EYU,F I,IYU,J A-type I,IYU,J B-type M,MYU,N Common Common Common Common Common Common	1 1 2 1 2 1 1 1 1 16 1	B B B B B B B B C C C	
	R7 R15~16 R24 R30 R31 C1~2 C3~4 C7~14, C16~21, C31, C34 C15 C30 C32 C33	The followir	ng electronic parts will be not supplied Chip resistor (1.5 kW) Chip resistor (1 MW) Chip resistor (100 kW) Chip resistor (220 W) Chip resistor (220 W) Chip capacitor (33 pF) Chip capacitor (18 pF) Chip capacitor (18 pF) Chip capacitor (0.1 mF) Electrolytic capacitor (10 mF) Chip capacitor (8200 pF) Chip capacitor (10 pF) Chip capacitor (1 mF)	from CASIO. RES-01-1.5K RES-01-1M RES-01-100K RES-01-220 RES-01-220 RES-01-10K CAP-01-33 CAP-01-33 CAP-01-18 CAP-01-01 CAP-02-10-25 CAP-01-8200 CAP-01-10 CAP-02-1-50	Common Common Common Common Common Common Common Common Common Common Common	1 2 1 1 2 2 16 1 1 1 1		
-		Z876-2 AS	L S'Y					
N N N N N N N N N	U2 U3 Q2, Q10 D1 D20 L2 L4 1 2 3	2114 5768 3065 0708 2259 2713 2390 3005 2390 3004 6419 6430 3122 3509 3502 2225 6419 6460 6419 6470	IC IC Transistor Diode Schottky diode Coil Inductor Mini jack Battery plate + Battery plate -	CMO-14-80715 CMO-10-R1501B TRR-01-NPNL6 DIO-01-LS4148 DIO-03-BAT43 COI-02-4630 IND-01-120 JCK-01-1169 BAC-01-988+ BAC-01-988-	Common Common Common Common Common Common Common Common	1 2 1 1 1 1 1 1	сссссссс с	
	R1 R8 Notes: N – Q – R – R – A : B :	The followir New parts Quantity us Rank Essential Stock recor	hg electronic parts will be not supplied Chip resistor (100 kW) Chip resistor (1 kW) EYU : SF-5580 for U ed per unit F : SF-5580 B.O. E : SF-5580 Othe	 from CASIO. RES-01-100K RES-01-1K J.S.A. IYU : S.S. J : ers I : MYU : N :	Common Common SF-5780 for U.S.A. SF-5780 B.O.S.S. SF-5780 Others SF-5980 for U.S.A. SF-5980 B.O.S.S.	1		
	C : X :	No stock re	commended	M :	SE-SAON OTHERS			

N	ltem	Code No.	Parts Name	Specification	Applicable	Q	R
	R9		Chip resistor (10 kW)	RES-01-10K	Common	1	
	R17		Chip resistor (1 MW)	RES-01-1M	Common	1	
	R18, R60		Chip resistor (100 W)	RES-01-100	Common	2	
	R25		Chip resistor (1.8 kW)	RES-01-1.8K	Common	1	
	R28		Chip resistor (47 kW)	RES-01-47K	Common	1	
	C5		Chip capacitor (0.1 mF)	CAP-01-01	Common	1	
	C6~7, C35		Electrolytic capacitor (100 mF)	CAP-02-100-10	Common	3	
	C24		Chip capacitor (4700 pF)	CAP-01-4700	Common	1	
	C36		Tantalum capacitor (10 mF)	CAP-04-10-6.3	Common	1	
		PCB ASSE	MBLY				
	4	6419 6480	2876-1 ass y	C341328*1	E,EYU,F		B
	4	6419 6490	2876-1 ass y	0.041328"2			B
	4	6419 6500	2876-1 ass y	C341328"3		1	B
	5	64197320	Z876-Z ass y		Common	1	В
	6	5610 9420		HES-03-ZX876A	Common	1	В
	7	5610 9430	Heat seal	HES-03-2X8/6B	Common		В
	8	5610 9440		HES-01-101055	Common	1	В
	9	3302 2224			Common		
	10	2212 0057		LOD-03-2X070	Common		
		3312 0037		LAWI-03-27070	Common		
		COMPONE	INTS	1			
N	12	6419 6180	Rubber key	KEY-04-ZX876A-1	E,EYU,F	1	C
N	12	6419 6190	Rubber key	KEY-04-ZX876A-2	I,IYU,J	1	C
	12	6419 6200	Rubber key	KEY-04-ZX876A-3	M,MY,N	1	C
N	13	6419 6210	Upper cabinet (display)	HOU-04-ZX876-00	E,EYU,F	1	C
	13	6419 6220	Upper cabinet (display)	HOU-04-ZX876-01	I,IYU,J	1	C
	13	6419 6230	Upper cabinet (display)	HOU-04-ZX876-02	M,MYU,N	1	C
	14	6419 6240		CON-05-50/32/	Common		X
	15	6419 6250	Lower cabinet (keyboard)	HOU-02-2X876-00	E		
	15	6419 6260	Lower cabinet (keyboard)	HOU-02-2X876-01	EYU,F		
	15	6419 6270	Lower cabinet (keyboard)	HOU-02-2X876-02		1	
	15	6419 6280	Lower cabinet (keyboard)		IYU,J	1	
	15	6419 0290	Lower cabinet (keyboard)		IVI MXLLNI		
	15	6419 6300	Lower cabinet (keyboard)				
	10	6419 0310	Upper cabinet (keyboard)				
	10	6410 6320	Upper cabinet (keyboard)			1	
	10	6419 6330	Hinge rubber	HINL01-7X-876	Common		
	17	6/19 6350	Rubber key	KEV-04-7X876B-1			
	10	6419 6360	Rubber key	KEV-04-7X876B-2			
	10	6/19 6370	Rubber key	KEV-04-ZX876B-3			
	10	6/19 6/00	Steel nut	NUT-02-M1 7	Common	2	X
	19	6/19 6050	Battery spring	BAC-01-7X876-	Common		
	20	6/19 6060	Battery spring	BAC-01-7X876±/-	Common		Ŷ
	21	6419 6100	Battery spring	BAC-01-ZX876+	Common	1	x x
	23	6410 6080	Rubber key	KEY-03-11100	Common	1	
N	23	6419 6120	Knob	LOC-01-7X876-00	E FYU F		
	Notes: N –	New parts	EYU : SF-5580 for L	J.S.A. IYU :	SF-5780 for U.S.A.	'	<u> </u>
	Q –	Quantity us	sed per unit F : SF-5580 B.O.	S.S. J:	SF-5780 B.O.S.S.		
	R –	Rank	E : SF-5580 Othe	ers l:	SF-5780 Others		
	R – A :	Essential		MYU :	SF-5980 for U.S.A.		
	B	Stock reco	mmended	N :	SF-5980 B.O.S.S.		
	C :	Others		M :	SF-5980 Others		
	X :	No stock re	commended				

N	ltem	Code No.	Parts Name	Specification	Applicable	Q	R
Ν	24	6419 6130	Knob	LOC-01-ZX876-01	I,IYU,J	1	С
N	24	6419 6140	Knob	LOC-01-ZX876-02	M,MYU,N	1	C
N	25	3122 3508	Buzzer	BUZ-02-27	Common	1	X
	26	3851 2053	Display plate	LEN-01-ZX876-00	E, EYU	1	B
	26	3851 2054	Display plate	LEN-01-ZX876-01	F	1	B
	20	2851 2055	Display plate	LEN-01-ZX876-02		1	В
	20	3851 2050	Display plate	LEN-01-2X876-04		1	B
N	26	3851 2058	Display plate	LEN-01-ZX876-05	N N	1	B
N	27	6419 5720	Lower cabinet (display)	HOU-03-ZX876-00	E.EYU.F	1	c
N	27	6419 5730	Lower cabinet (display)	HOU-03-ZX876-01	I,IYU,J	1	C
N	27	6419 5740	Lower cabinet (display)	HOU-03-ZX876-02	M,MYU,N	1	С
N	28	6419 5750	Plate	INL-01-ZX876-00	E, EYU	1	С
N	28	6419 5760	Plate	INL-01-ZX876-01	F	1	С
N	28	6419 5770	Plate	INL-01-ZX876-02	I, IYU	1	С
N	28	6419 5780	Plate	INL-01-ZX876-03	J	1	С
N	28	6419 5790	Plate	INL-01-ZX876-04	M,MYU	1	С
N	28	6419 5800	Plate	INL-01-ZX876-05	N	1	С
N	29	6419 5820	Screw	SCR-01-1740PMTB	Common	1	C
	30	6419 5830	Screw	SCR-01-1735PBBK	Common	1	C
	31	6419 5850	Jack cover	JCK-02-ZX876	Common	1	C
	32	6419 5890	Battery cover	BAD-02-2X876-00		1	
	32	6/19 5900	Battery cover	BAD-02-ZX876-01		1	
	33	6/19 5910	Battery cover	BAD-02-2X876-00		1	
N	33	6419 5930	Battery cover	BAD-01-ZX876-01		1	C
N	33	6419 5940	Battery cover	BAD-01-ZX876-02	M.MYU.N	1	c
		Parts prices	s will be informed separately by Parts F	Price List.			
	Notes: N –	New parts	EYU : SF-5580 for U	I.S.A. IYU :	SF-5780 for U.S.A.	•	•
	Q –	Quantity us	ed per unit F: SF-5580 B.O.	S.S. J :	SF-5780 B.O.S.S.		
	R –	Rank	E : SF-5580 Othe	ers I:	SF-5780 Others		
	R – A : Essential MYU : SF-5980 for U.S.A.						
	B :	Stock recor	nmended	N :	SF-5980 B.O.S.S.		
	C :	Others		M :	SF-5980 Others		
	X :	INO STOCK re	commended				



10. EXPLODED VIEW

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