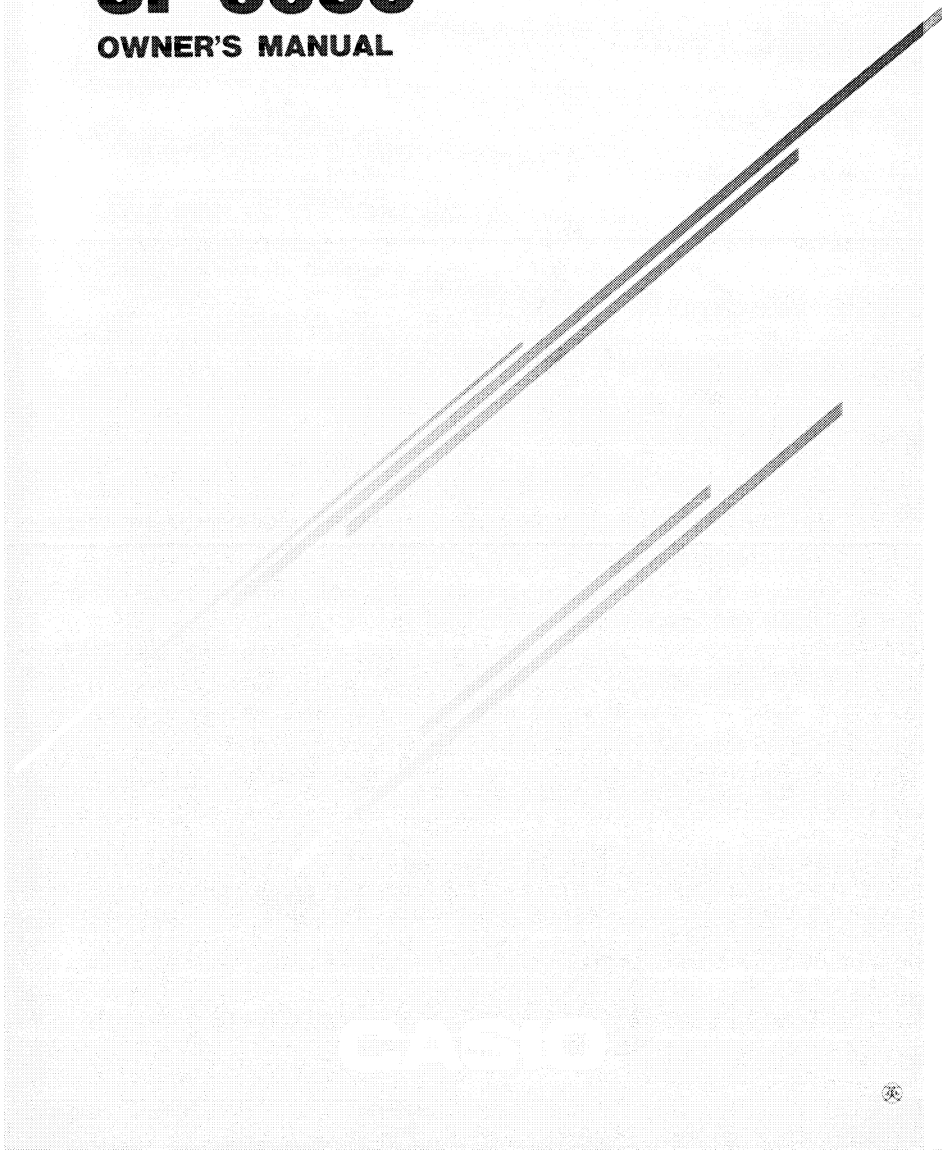
DIGITAL DIARY

SF-9500

OWNER'S MANUAL



MO09047105A Printed in Japan

Introduction

Congratulations on your purchase of the Casio SF-9500 (referred to as SF Unit in this manual). For best results and to ensure that you are able to employ the features and functions of your SF Unit to their fullest, carefully read this manual and keep it on hand for future reference.

- Casio Computer Co., Ltd. assumes no responsibility for any damage or loss resulting from the use of this manual.
- Casio Computer Co., Ltd. assumes no responsibility for any loss or claims by third parties which may arise through the use of the SF Unit.
- Casio Computer Co., Ltd. assumes no responsibility for any damage or loss caused by deletion of data as a result of malfunction, repairs, or battery replacement. Be sure to back up all important data on other media to protect against its loss.

Before Beginning Operation

Make back up copies of important data!

Your SF Unit employs electronic memory, which makes it possible to store large volumes of data and to recall stored data quickly and easily. Data is retained as long as power is supplied by the batteries. This means that should batteries go dead, or if you make a mistake while replacing batteries, the data stored in memory may be damaged or lost entirely. Data contents can also be damaged or lost due to strong external static electrical charge, strong impact, or extremes in temperature and humidity.

All of this means that you should make back up copies of important data on an optional IC card or in a notebook in case any of the above conditions occur.

Data Error

Whenever you switch on the power of the SF Unit, it performs a self check to make sure that everything is in order before beginning operation. If the SF Unit detects a problem with or a loss of data, it displays the following message.

```
DATA ERROR !
CONSULT THE "DATA ERROR" SECTION
OF THE OWNER'S MANUAL
```

Data which is damaged or lost cannot be recovered.
Data errors are generally caused by one of the following problems.

1. Interruption of battery power (see page 8).
2. Severe static electrical charge, impact, change in temperature, or change in humidity (see page 5).

3. Improper handling of IC card (see page 190).
4. Hardware problem.

After the Data Error display appears, you will not be able to input or edit data, though you will be able to recall data (after pressing the [ESC] key to clear the display). Following the Data Error display, follow the instructions outlined below.

In the case of 1, 2, or 3....

You must perform the RESET operation (page 267) to clear the memory and return to normal operation. Before doing so, you may want to recall important data and write it down (if you don't already have a copy on an IC card or paper). Then you can reinput the data after the memory is cleared.

In the case of 4....

Consult with your nearest Casio dealer.

Weak Battery Messages

The following displays indicate that batteries are getting weak are should be replaced.

```
MAIN POWER SUPPLY BATTERIES
GETTING WEAK !
REPLACE !
```

```
MEMORY BACKUP BATTERY
GETTING WEAK !
REPLACE !
```

```
MAIN POWER SUPPLY AND MEMORY
BACKUP BATTERIES GETTING WEAK !

REPLACE MEMORY BACKUP BATTERY
FIRST AND THEN MAIN POWER SUPPLY
BATTERIES !
```

Should the main power supply batteries and the memory backup battery drop below a certain level at the same time, data stored in memory may be corrupted or lost.
Whenever any of the above displays appear, be sure to stop operation of the SF Unit and replace batteries as soon as possible (page 8).

Memory Overflow Message

The memory overflow message appears on the display when the data you are trying to store exceeds memory capacity.

```
MEMORY FULL !
```

When this happens, perform the two following operations.

- Press [◀] or [▶] to display the data you are trying to input, and reduce the number of characters. If the memory overflow message appears again when you try to store the data, try the next operation below.
- Press [CLEAR] to display the input prompt for the mode you are in ("NAME ?", "MEMO ?", "SCHEDULE ?"). Next, either delete data items you no longer need to make room for the new data, or use an optional RAM card to expand memory capacity.

Precautions

Note the following important precautions to ensure that you get the most out of your SF Unit.

- Never try to take your SF Unit apart.
- Avoid strong impact and sudden temperature changes.
- At very low temperatures, the display response time may slow down or the display may fail completely. This is temporary, and correct operation should return at normal temperature.
- When the message "MAIN POWER SUPPLY BATTERIES GETTING WEAK ! REPLACE !" appears on the display, switch power off and replace batteries.
- To avoid serious damage caused by leaking batteries, replace batteries once every two years, regardless of how much you use the SF Unit.
- Never use thinner, benzine or other volatile agents to clean the exterior of the SF Unit. Instead, wipe it off with a soft cloth dampened in a solution of water and a mild, neutral detergent. Wring the cloth out until it is almost dry.
- If the SF Unit is exposed to strong static electrical charges, the display may dim or the SF Unit may lock up. To correct this situation, switch power off, and then remove and then replace the main power supply batteries.
- Do not press the keys of the SF Unit with a pen, pencil or other sharp object.
- The SF Unit may cause interference with radio or television reception. Keep it away from such appliances when in use.

About the Power Supply

You should stop whatever operation you are performing and replace batteries as soon as one of the weak battery messages shown on pages 3 and 4 appears on the display. Note that the SF Unit has two separate power supplies.

- **Main Power Supply**

The main power supply uses two CR2032 lithium batteries. These batteries power keyboard operations, the display and alarm tones. They also supply power required when the SF Unit is switched off, and they provide power to the memory while you are replacing the memory backup battery. The following shows the normal service life of the main power supply batteries under two different test conditions.

Battery life	Conditions
75 hours:	Operating temperature of 20°C Repeated cycle of 1-minute data input into Telephone Directory followed by 10-minute display.
100 hours:	Operating temperature of 20°C Continuous display in Telephone Directory.

You should replace the memory backup battery at least once every 5 years, regardless of whether or not the weak battery message appears during that time.

If you do not use your SF Unit for a long time...

- Be sure to switch the SF Unit on at least once a month to check the display for a weak battery message.
- If a weak battery message appears (pages 3 and 4) when you switch power on, replace batteries as soon as possible.
- If the SF Unit does not respond when you switch power on, replace main power supply batteries as soon as posible.

Important

- All data stored in memory is lost if both the main power supply batteries and the memory backup battery are dead, or if you remove all batteries from the SF Unit.

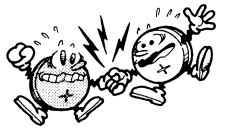
- If it is necessary to replace all batteries, replace the memory backup battery first, and then replace the main power supply batteries.

Precautions

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

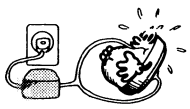
- Be sure that the positive (+) and negative (−) poles of each battery are facing in the proper direction.

- Never mix batteries of different types.



- Never mix old batteries and new ones.

- Never leave dead batteries in the battery compartment.
- Remove the batteries if you do not plan to use SF Unit for long periods.
- Replace the batteries at least once every two years, no matter how much SF Unit is used during that period.
- Never try to recharge the batteries supplied with the unit.



- Do not expose batteries to direct heat, let them become shorted, or try to take them apart.

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

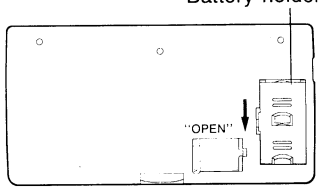
To replace the main batteries

Before replacing the main battery, note the following precautions:

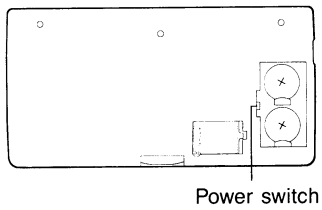
- Do not remove the memory backup battery from the SF Unit while main batteries are removed.
- All memory contents are erased by sliding power switch to ON position (upwards) while main batteries are removed, and main battery holder cannot be replaced.
- Check to make sure that power switch is in "OFF" position (downwards) before loading main batteries.
- Be sure to replace both batteries at the same time, and do not use an old battery with a new one.

1. Remove the back cover of the SF Unit by removing the three screws that hold it in place.

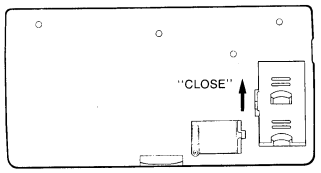
2. Slide the main battery holder to "OPEN" and remove the battery holder of the main batteries.



3. Remove both of the old batteries. Wipe the surfaces of two new batteries with a soft cloth, and install them into the battery compartment so that their positive (+) sides are facing upwards.



4. Replace the main battery holder and slide to "CLOSE".



5. Replace the back cover of the SF Unit and secure it in place using the three screws.
   At this time, check to see that the back cover is correctly attached to the hooks in the SF Unit.
6. Press [ON] key (on unit keyboard) and adjust the display contrast (see page 23).

To replace the memory backup battery

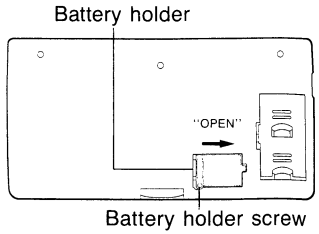
Before replacing the memory backup battery, note the following precautions:

- Do not remove the main power supply batteries from the SF Unit while memory backup battery is removed.
- Be sure to replace the memory backup battery at least once a year. Otherwise, you run the risk of losing data stored in memory. The sticker on the memory backup battery holder shows when the battery was installed at the factory. Whenever you change this battery, be sure to make a note so that you can change it again after a year passes.

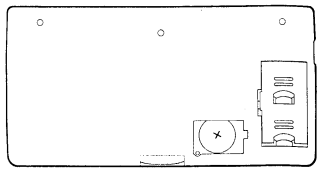
1. Check to see that the following message does not appear when the SF Unit is switched ON. If it does, change the main batteries before changing the memory backup battery.
   MAIN POWER SUPPLY BATTERIES GETTING WEAK ! REPLACE !

2. Remove the back cover of the SF Unit by removing the three screws that hold it in place.

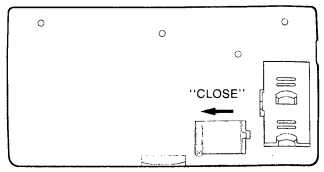
3. Loosen the battery holder screw and slide the battery holder to "OPEN", and remove the battery holder of the memory backup battery.



4. Remove the old battery. Wipe the surface of a new battery with a soft cloth, and install it into the battery compartment so that its positive (+) side is facing upwards.



5. Replace the battery holder and slide to "CLOSE", and secure it in place using the screw.



6. Replace the back cover of the SF Unit and secure it in place using the three screws.
   At this time, check to see that the back cover is correctly attached to the hooks in the SF Unit.

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Performing Data Communications

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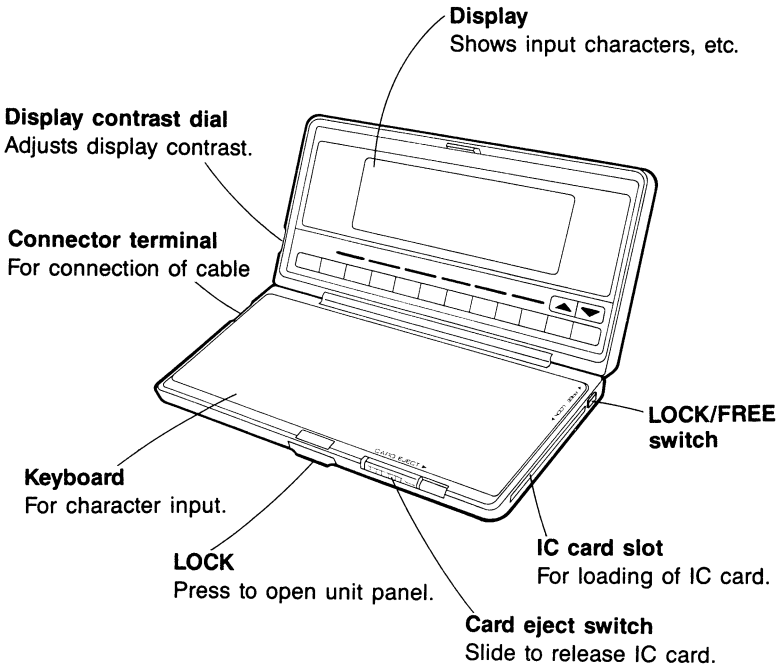
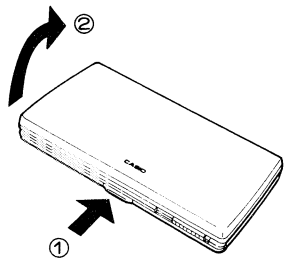
Getting to Know Your SF Unit



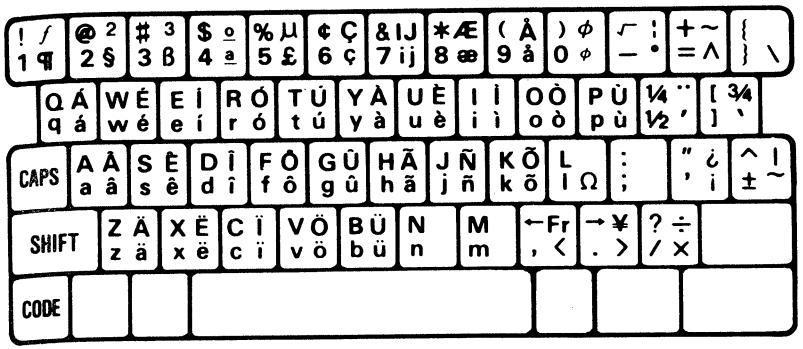
To open the panel of the unit



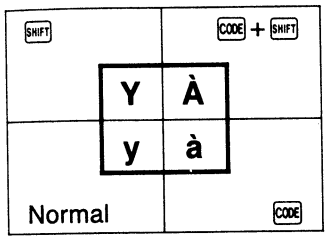
Open panel while pressing lock.

Key identification chart

The keyboard illustrated below shows all of the characters that can be entered from the keyboard.



Each key is capable of entering four characters. Characters are entered by pressing a key directly, or by using the SHIFT and CODE keys. The following illustration shows how the SHIFT and CODE key operations are related to the four characters that can be entered with each key.



Example: Y enters y
SHIFT Y enters Y
CODE Y enters à
SHIFT CODE Y enters À

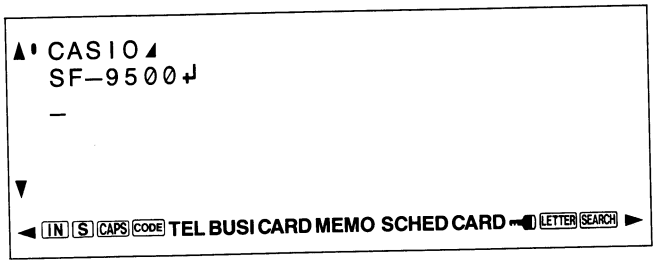
In addition to the key operations shown above, you can also enter the accent marks noted below. In each case, enter the accent mark and then the character. The cursor will not move forward until you enter the character.

[CODE] [¼ ¨ ½ ´] ´ (acute accent)
[CODE] [{ ¾ } `] ` (grave accent)
[SHIFT] [^ ¡ ± ~] ^ (circumflex)
[CODE] [SHIFT] [¼ ¨ ½ ´] ¨ (umlaut)
[CODE] [^ ¡ ± ~] ~ (tilde)

Example: [CODE] [{ ¾ } `] [A] enters à
[CODE] [{ ¾ } `] [SHIFT] [A] enters À

If you enter a letter that cannot be used with the above accent marks (such as w or s), the accent mark previously entered is cleared from the display.

About the Symbols Used on the Display



◢	Separator mark. Separator mark inserted when [NEXT] is pressed to indicate the end of a data item.
↵	Newline mark. Newline mark inserted when [↵] is pressed to indicate a new line.
_	Cursor, indicating current input position.
■	Cursor when 10 or fewer characters remain in the input capacity.
▲	Indicates data off the top of the display.
▼	Indicates data off the bottom of the display.
▮	Indicates marked data item.
IN	Indicates input mode.
S	Indicates [SHIFT] key has been pressed.
CODE	Indicates [CODE] key has been pressed.
CAPS	Indicates keyboard in upper-case.

TEL	Indicates SF Unit is in Telephone Directory.
BUSICARD	Indicates SF Unit is in Business Card Library.
MEMO	Indicates SF Unit is in Memo Mode.
SCHED	Indicates SF Unit is in Schedule Keeper.
CARD	Indicates SF Unit uses IC card functions.
	Indicates SF Unit is in Secret area.
LETTER	Indicates that Letter Memory function is active.
SEARCH	Indicates that Direct Search or Random Search is being conducted.

Learning About Your SF Unit

To turn power ON/OFF

Check that the LOCK-FREE switch is in the LOCK position. If not, slide it to the LOCK position.
Press ON to turn on power. Press OFF to turn off.

About the Auto Power OFF function

The Auto Power OFF function conserves battery power by automatically switching power OFF if the SF Unit is not used for approximately six minutes. To restore power, press the ON key.

- When you switch power ON following activation of the Auto Power OFF function, the SF Unit returns to the mode that it was in before power was switched OFF.
- Memory contents are protected while power is switched OFF.
- **If a schedule alarm or a daily alarm is preset, power automatically switches ON when the alarm time is reached.**

To adjust display contrast

Rotate the contrast control in either direction until the display becomes easy to read.

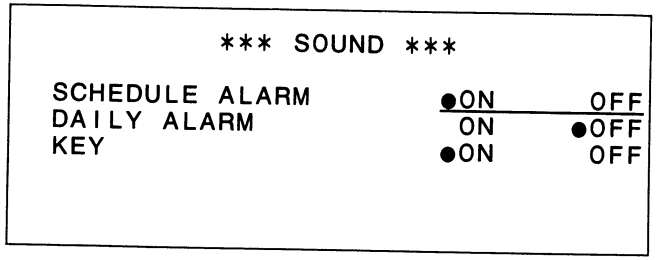
Key input tone

A beep sounds each time you press a key. You can turn off this beep if you want to.

In any mode except the calculator mode, press FUNCTION, and the menu appears. Depending on the mode, the contents of the menu is different, but for turning key tone on/off, you always use number 6.

Press [6].

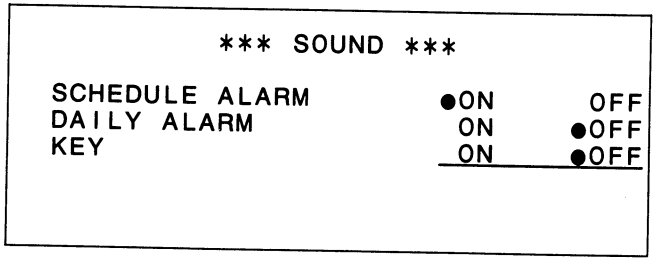
[6]



The first time you display the sound menu, the above submenu appears. This display indicates that the SCHEDULE ALARM and KEY input tone is ON, DAILY ALARM is OFF.

Press [▼] twice so that the underline is below KEY ON/OFF. Press [▶] to turn off the key input tone.

[▼][▼][▶]



Press [SET] to register the new settings.

Entering text

Cursor

The cursor is a short line that flashes on the screen. It indicates where the next character you enter appears. Each time you press a key, the cursor moves one position to the right.

You can also move the cursor on the display using the cursor keys. Use [◀], [▶], [▲], or [▼] to move the cursor in the corresponding direction. Hold down the key to move the cursor rapidly.

Press [SHIFT] [◀] to move the cursor to the beginning of the current line.
Press [SHIFT] [▶] to move the cursor to the end of the current line.

[CAPS] Key

When you press [CAPS], you activate the caps lock function and all the alphabet keys produce upper-case letters. This does not affect other keys: you still need to press [SHIFT] to get the characters in green. The [CAPS] indicator appears during caps lock. Press [CAPS] again to release.

Your SF Unit differentiates between upper- and lower-case letters when searching and sorting. Keep this in mind when you search for information. If you do not type in the information exactly as you originally entered it, your SF Unit does not find the information.

[SHIFT] Key

Press [SHIFT] to enter a single upper-case character. The [S] indicator appears on the display. In caps lock mode, pressing [SHIFT] enters a single lower-case character. After you enter a character, the shift operation cancels. The indicator disappears after you press the next key. Also use [SHIFT] to enter the symbols marked in green on the keyboard.

[CODE] Key

Press [CODE] to enter characters marked in blue on the keyboard. [CODE] appears on the display. After you enter a character, the code operation cancels. The indicator disappears after you press the next key.

[DATA IN/OUT] Key

Press [DATA IN/OUT] to switch between data input ([IN] on the display) and data output ([IN] not on the display). We recommend you keep your SF Unit in the output mode ([IN] not displayed) to avoid accidentally changing your data.

[FUNCTION] Key

Press [FUNCTION] to recall the various functions built into your SF Unit. The function menu appears on the display. Note that the menu varies depending on your SF Unit's mode, plus whether [IN] appears on display or not.

We discuss the other special keys in detail in each section. Consult the contents and index to locate the necessary information.

Editing text

To delete characters

1. Move the cursor to the character to be deleted.
2. Press the [DEL] key.

BUSSINESS CARD
→ BUSINESS CARD

[◄] · · · · [◄]

[DEL]

BUSSINESS CARD_
BUSSINESS CARD
BUSINESS CARD

To insert characters

1. Move the cursor to the position of the character to be inserted.
2. Press the [INS] key to open up a space for the character.
3. Enter the character.

BUSINESS CRD
→ BUSINESS CARD

[◄][◄][INS]

A

BUSINESS CRD_
BUSINESS C_RD
BUSINESS CARD

To replace characters

1. Move the cursor to the character to be replaced.
2. Enter the desired character.

BUSINESS CWRD
→ BUSINESS CARD

[◄][◄][◄]

A

BUSINESS CWRD_
BUSINESS CWRD
BUSINESS CARD

Using the Data Management Functions

This part of the manual tells you how to use the versatile data storage functions. You will learn how to store, recall, and edit Telephone Directory, Business Card Library, Memo, and Schedule data. To make procedures as easy to understand as possible, they are explained using actual example operations.

Using the Telephone Directory Function

The Telephone Directory function lets you store addresses and telephone numbers in memory for instant recall when you need them. Each Telephone Directory data item includes three entries for name, telephone number and address, plus six user-definable entries for such information as birthday, preferences, etc.

Format

Each Telephone Directory data item can include up to 384 characters (including separator marks (◢) and newline marks (↵)). The following shows the format of the data stored for each item.

Entry

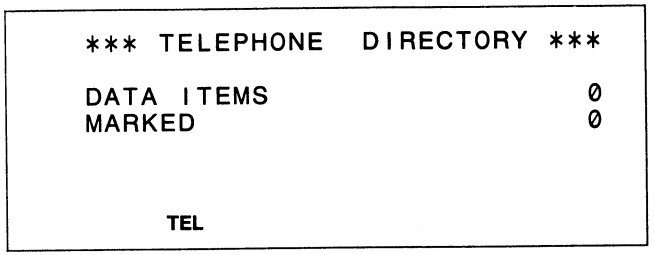
NAME
TEL NUMBER
ADDRESS
FREE 1
⋮
FREE 6

To store data

Example: Let us store the following data in memory.
JACKSON ERIC
222-228-8227
570 Casio Avenue, Seattle, WA
Blood Type: O

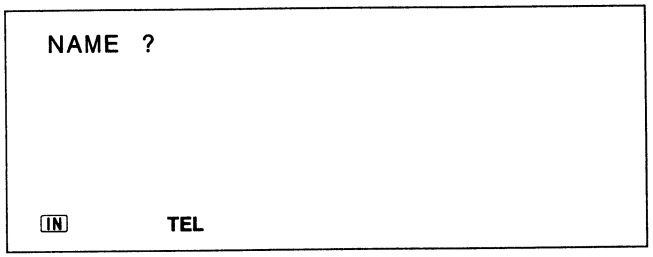
Press the [TEL] key.

[TEL]



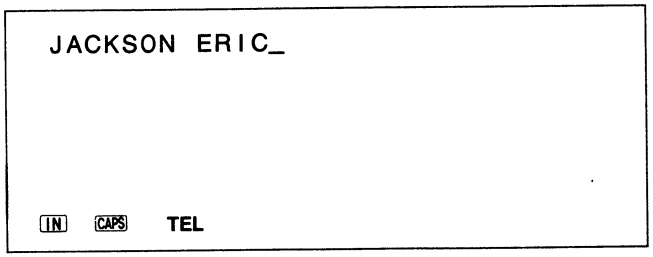
Press the [DATA IN/OUT] key. [IN] appears on the display.
Press the [CLEAR] key, and the message "NAME ?" appears to ask you to enter the name of the individual.

[DATA IN/OUT] [CLEAR]



Enter the name.

[CAPS] **JACKSON** [SPACE] **ERIC**



After you enter the name, press the [NEXT] key. Note the separator mark that appears at the end of the line.
The message "TEL NUMBER ?" appears to ask you to enter the telephone number.

[NEXT]

```
JACKSON ERIC◢
TEL NUMBER ?


[IN] [CAPS]  TEL
```

Enter the telephone number.

222-228-8227

```
JACKSON ERIC◢
222–228–8227_


[IN] [CAPS]  TEL
```

Press the [NEXT] key again. The message "ADDRESS ?" appears to ask for the address.

[NEXT]

```
JACKSON ERIC◢
222–228–8227◢
ADDRESS ?


[IN] [CAPS]  TEL
```


Enter the address.

570 [SPACE] C [CAPS] ASIO [SPACE][SHIFT] AVENUE, [SPACE][SHIFT] SEATTLE, [SPACE][CAPS] WA

```
JACKSON ERIC◢
222–228–8227◢
570 Casio Avenue, Seattle, WA_


[IN] [CAPS]  TEL
```

Press the [NEXT] key, and the message "FREE 1 ?" appears to ask for input for the first user-definable entry.

[NEXT]

```
JACKSON ERIC◢
222–228–8227◢
570 Casio Avenue, Seattle, WA◢
FREE 1 ?


[IN] [CAPS]  TEL
```

Enter Eric's blood type.

B [CAPS] LOOD [SPACE][SHIFT] TYPE [SHIFT] : [SPACE][SHIFT] O

```
JACKSON ERIC◢
222–228–8227◢
570 Casio Avenue, Seattle, WA◢
Blood Type: O_


[IN]  TEL
```

Though you could possibly keep pressing the [NEXT] key to continue entering five more "FREE" items, here we will press the [SET] key to store this data item into memory.

[SET]

```
JACKSON ERIC          222-228-8227
570 Casio Avenue, Seattle, WA
Blood Type: O


[IN]          TEL
```

- When the total number of characters making up the name and telephone number is less than 31, the name and telephone number are displayed on the same line of the display.
- While a combine mark (C) (see page 43) is on the display, the [SET] key will not store any data. Delete the combine mark using the [DEL] key before pressing [SET].

Recalling Telephone Directory data

Data stored in the Telephone Directory can be recalled using one of the following procedures:

- Index Search

Scrolling through the alphabetical listing of names and telephone numbers only.

- Direct Search

Recall of all items whose name entries start with specific characters.

- Random Search

Recall of all items that contain specific characters.

- Combined Search

Recall of all items according to multiple specifications.

- Sequential Search

Scrolling through data items.

About the Telephone Directory display

Two different display formats are used in the Telephone Directory.

- Index Display

This format shows individual names and telephone numbers only.

- Data Display

This format shows all of the data entered for one individual.

Index Display

```
ANDERSON JACK          234-228-8333
BENSON THOMAS          631-343-8888
BUSH MARY              234-228-9199
JACKSON EMILY          222-228-8227
JACKSON ERIC           222-228-8227
LLOYD JAMES            567-645-8090

          TEL
```

Data Display ↓ [DISPLAY CHANGE] ↑

```
ANDERSON JACK          234-228-8333
1710 Orange Street, Los Angeles,
CA 90404
Blood type: AB  Swimming`Tennis
Birthday: Oct. 9th, 1960
▼ Wedding Anniversary: May 7, 1989

          TEL
```

You can switch between the Index Display and Data Display by pressing the [DISPLAY CHANGE] key.

The ▼ indicator on the left of the display indicates that more data is present off of the bottom of the display. Press the [▼] key to view this data. Likewise, a ▲ indicator will also appear when there is more data off of the top of the display. In this case, press the [▲] key to view the data.

When the total number of characters used for two consecutive FREE items is less than 15, the two items are displayed on one line.

Use the procedure outlined in **To store data** to input the following data.

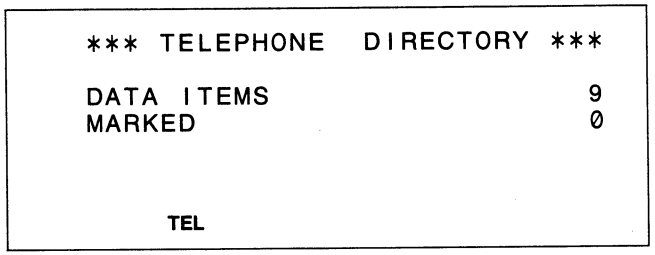
Name	Number	Address
LLOYD JAMES	567-645-8090	3455 Diary Avenue, Chicago, IL
BUSH MARY	234-228-9199	11933 Digital Street, Los Angeles, CA
SMITH DIANA	567-645-3233	6322 S.F. Avenue, Chicago, IL
JACKSON EMILY	222-228-8227	570 Casio Avenue, Seattle, WA
BENSON THOMAS	631-343-8888	4355 Calculation Town, New York, NY
ANDERSON JACK	234-228-8333	1710 T.D. Street, Los Angeles, CA
WILSON KEN	234-228-4321	11564 B.C.L. Avenue, Los Angeles, CA
PALMER JEAN	234-228-5421	2388 S.K. Street, Los Angeles, CA

To locate data using Index Search

Example: Search for the data stored for Diana Smith.

Press the [TEL] key.

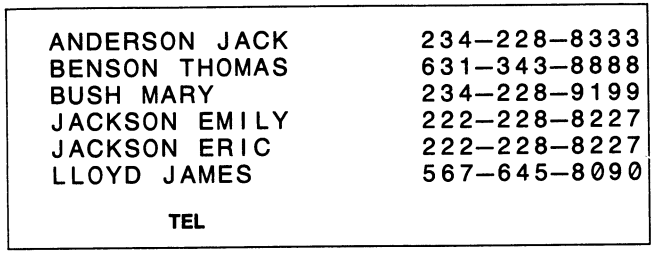
[TEL]



This display indicates that there are currently nine data items stored in memory. Of these, none are marked. For further details on marked data items, see page 158.

Press the [▼] key to display the first set of six names and telephone numbers.

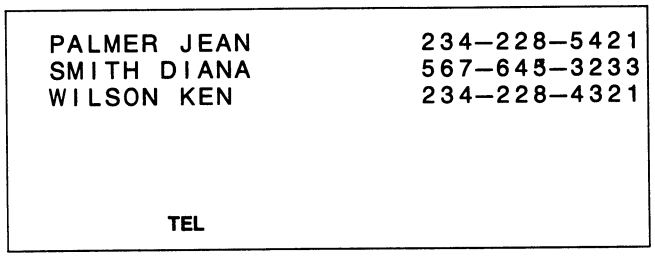
[▼]



When the total number of characters making up the name and telephone number is greater than 32, only the name is displayed in the Index Display. If the name itself exceeds 32 characters, only its first 32 characters are shown on the Index Display.

Press [▼] to scroll down to the next page of names and numbers.

[▼]



Press the [▼] key until the name "SMITH DIANA" is at the top of the display.

[▼]

```
SMITH DIANA          567–645–3233
WILSON KEN           234–228–4321


                TEL
```

Press the [DISPLAY CHANGE] key to change to the Data Display.

[DISPLAY CHANGE]

```
SMITH DIANA          567–645–3233
6322 S.F. Avenue, Chicago, IL


                TEL
```

If you press the [DISPLAY CHANGE] key again while this Data Display is shown, the Index Display will reappear with the name "SMITH DIANA" at the top.

To locate data using Direct Search

Example: Search for the data stored for Thomas Benson.

Anytime you press the [CLEAR] key, the message "SEARCH FOR ?" appears to ask you for the name you wish to locate.
Enter the name "BENSON THOMAS".

[CLEAR] [CAPS] **BENSON** [SPACE] **THOMAS**

```
BENSON THOMAS_


          CAPS  TEL
```

Press the [SEARCH] key and the [SEARCH] indicator appears in the lower right of the display. An Index Display appears with the name and telephone number for the name that you specified at the top.

[SEARCH]

```
BENSON THOMAS        631–343–8888


          CAPS  TEL              SEARCH
```

Press the [DISPLAY CHANGE] key to switch to the Data Display.

[DISPLAY CHANGE]

```
BENSON THOMAS        631–343–8888
4355 Calculation Town, New York,
NY


          CAPS  TEL              SEARCH
```

- If you press the [DISPLAY CHANGE] key again while the data display is shown, the Index Display will reappear with the name "BENSON THOMAS" at the top.
- The above procedure can also be performed specifying "BENSON" or simply "B".
- If more than one Telephone Directory item matches the specification you enter for "SEARCH FOR ?", they will appear together on Index Display. Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key to switch to its Data Display.
- To clear the [SEARCH] indicator from the display and cancel the search procedure, press the [SEARCH] key again.

To locate data using Random Search

Example: Search for all data items that contain the text "Los Angeles".

While in the Telephone Directory, press the [CLEAR] key. The message "SEARCH FOR ?" appears to ask you what to search for.
Enter "Los Angeles".

[CLEAR] [SHIFT] LOS [SPACE] [SHIFT] ANGELES

```
Los Angeles_

TEL
```

Press [SHIFT] followed by the [SEARCH] key. The [SEARCH] indicator appears on the display, and the names and telephone numbers for all of the persons whose data items contain the text you specified appear as an Index Display.

[SHIFT] [SEARCH]

```
ANDERSON JACK      234-228-8333
BUSH MARY          234-228-9199
PALMER JEAN        234-228-5421
WILSON KEN         234-228-4321

TEL                          SEARCH
```

Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key switch to its Data Display.

Using Combined Search

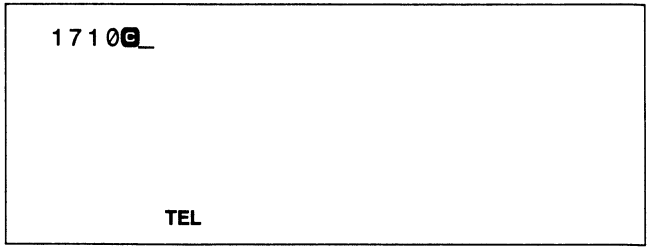
With Combined Search, you can make more than one specification for the type of data to search for. This reduces the number of items that match the specification, making it quicker and easier to locate specific Telephone Directory data items.
Actually, there are two Combined Search procedures, Direct Combined Search and Random Combined Search.

To locate data using Direct Combined Search

Example: Locate the data for an individual named Anderson, whose address begins with the number 1710.

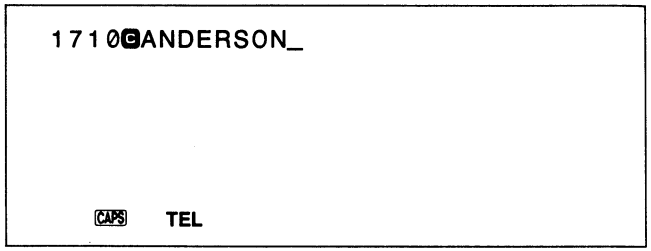
While in the Telephone Directory, press the [CLEAR] key. The message "SEARCH FOR ?" appears to ask you the data you wish to search for.
Enter "1710", and press the [COMBINE] key.

[CLEAR] **1710** [COMBINE]



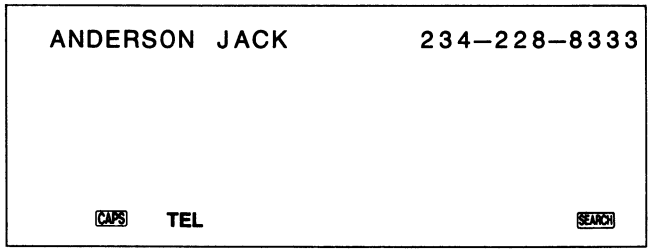
Enter "ANDERSON".

[CAPS] **ANDERSON**



Press the [SEARCH] key.

[SEARCH]



The corresponding name and telephone number appear at the top of the display. Press the [DISPLAY CHANGE] key to switch to the Data Display.

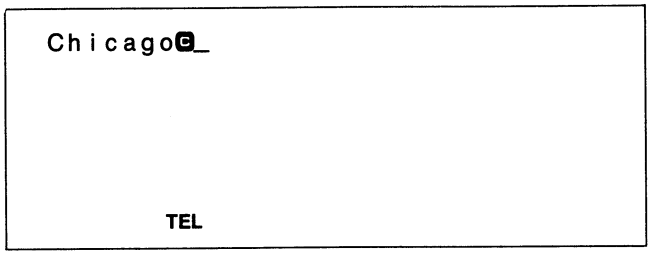
- C is the ***combine mark*** which separates the Combined Search specifications.
- While a combine mark is on the display, the [SET] key will not store any data. Delete the combine mark using the [DEL] key before pressing [SET].

To locate data using Random Combined Search

Example: Locate the data for an individual named Diana, who lives in Chicago.

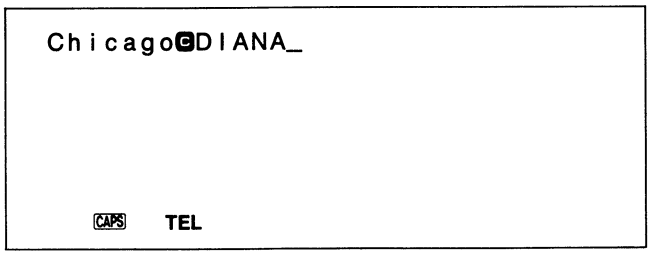
While in the Telephone Directory, press the [CLEAR] key. The message "SEARCH FOR ?" appears to ask you the data you wish to search for. Enter "Chicago", and press the [COMBINE] key.

[CLEAR] [SHIFT] **CHICAGO** [COMBINE]



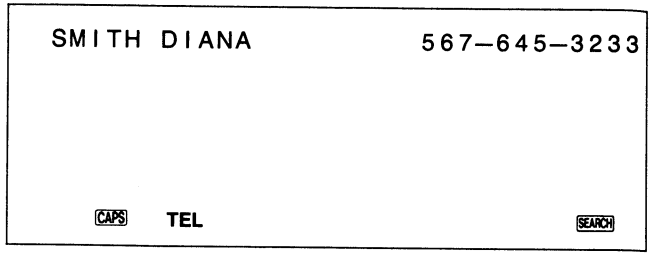
Enter "DIANA".

[CAPS] **DIANA**



Press [SHIFT] followed by the [SEARCH].

[SHIFT][SEARCH]

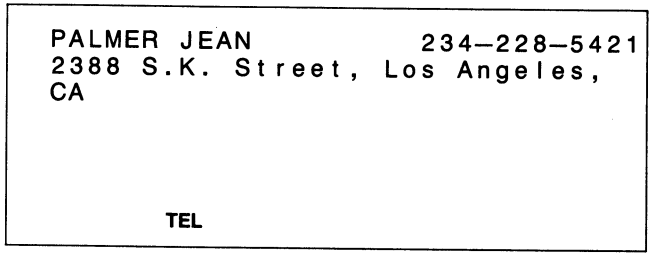


The corresponding name and telephone number appear at the top of the display. Press the [DISPLAY CHANGE] key to change to the Data Display.

To locate data using Sequential Search

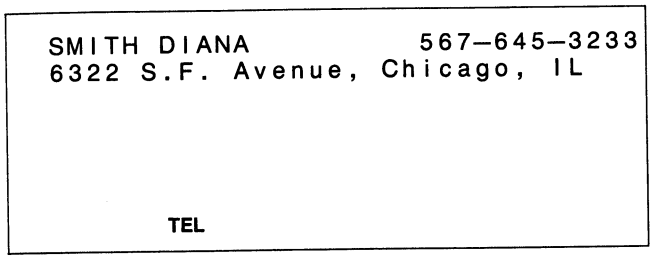
Example: Use Index Search to display the Telephone Directory data for Jean Palmer, and then move to the data stored for Ken Wilson.

[TEL][▼][▼][DISPLAY CHANGE]



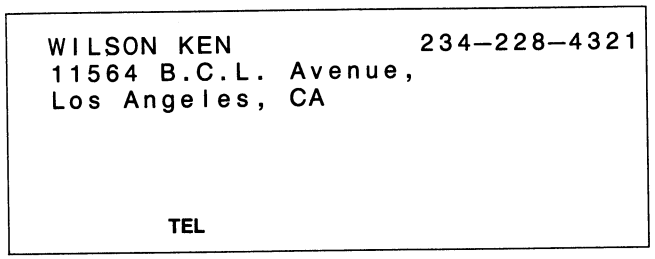
Press [▼] to display the next item.

[▼]



Press [▼] again to display Ken Wilson's data.

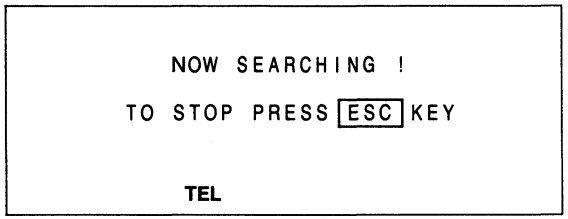
[▼]



In the above operation, you can also access the Telephone Directory by simply pressing the [DISPLAY CHANGE] key after pressing the [TEL] key. Doing so displays the first (in alphabetical order) Telephone Directory data item.

Notes

- The message "DATA ITEM NOT FOUND !" appears on the display if you attempt to search for text that does not exist in memory. This can be because the item does not exist, or because you made a mistake when you entered the text. Should this message appear, press [▶] or [◀] to recall and edit the text you input, or [CLEAR] to reenter the text from the beginning. Or you can press [▲] or [▼] to go directly to the index display.
- If you try to recall data when no data is stored in memory, the message "DATA ITEM NOT FOUND ! NO RECORD !" appears on the display. In this case, press a mode key ([TEL], [BUSINESS CARD], [MEMO], or [SCHEDULE]) to return to the initial mode display.
- If you have a large number of entries in memory, the search procedure might take a long time. You can cancel search procedure in progress by presing [ESC].



Using the Business Card Library Function

The Business Card Library function lets you store a wide variety to business-oriented data for, including employer, name, telephone number, position, department, P.O. box, address, telex number and facsimile number. In addition, six user-definable entries are also available for other information.

Format

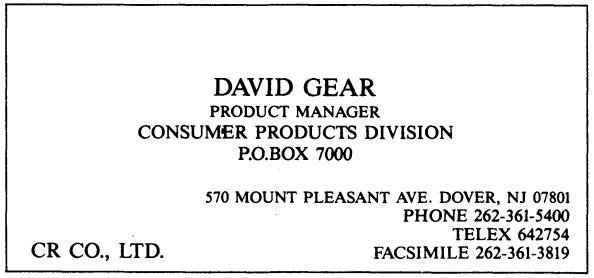
Each Business Card Library data item can include up to 384 characters (including separator marks (◢) and newline marks (↵)). The following shows the format of the data stored for each item.

Entry

EMPLOYER
NAME
TEL NUMBER
POSITION
DEPARTMENT
P.O. BOX
ADDRESS
TELEX NUMBER
FAX NUMBER
FREE 1
⋮
FREE 6

To store data

Example: Let us store the data included on the business card illustrated below.



Press the [BUSINESS CARD] key.

[BUSINESS CARD]

```
*** BUSINESS CARD LIBRARY ***

EMPLOYER                    0
DATA ITEMS                  0
MARKED                      0

                  BUSICARD
```

Press the [DATA IN/OUT] key. [IN] appears on the display.
Press the [CLEAR] key, and the message "EMPLOYER ?" appears to ask you to enter the name of the individual's employer.

[DATA IN/OUT] [CLEAR]

```
EMPLOYER ?




[IN]              BUSICARD
```

Enter the name of the employer and press the [NEXT] key. The message "NAME ?" appears to ask you to enter the name of the individual.

[CAPS] CR [SPACE] CO., [SPACE] LTD. [NEXT]

```
CR CO., LTD.◢
NAME ?




[IN] [CAPS]       BUSICARD
```

Enter the name and press the [NEXT] key. The message "TEL NUMBER ?" appears to ask you to enter the telephone number of the employer.

GEAR [SPACE] DAVID [NEXT]

```
CR CO., LTD.◢
GEAR DAVID◢
TEL NUMBER ?




[IN] [CAPS]       BUSICARD
```

Enter the telephone number and press the NEXT key. The message "POSITION ?" appears to ask you to enter the individual's position.

262-361-5400 NEXT

```
CR CO., LTD.◢
GEAR DAVID◢
262-361-5400◢
POSITION ?


IN  CAPS        BUSICARD
```

Enter the position and press the NEXT key. The message "DEPARTMENT ?" appears to ask you to enter the name of the department where the individual works.

PRODUCT SPACE **MANAGER** NEXT

```
CR CO., LTD.◢
GEAR DAVID◢
262-361-5400◢
PRODUCT MANAGER◢
DEPARTMENT ?

IN  CAPS        BUSICARD
```

Enter the name of the department and press the NEXT key. The message "P.O.BOX ?" appears to ask you to enter the individual's post office box.

CONSUMER SPACE **PRODUCTS** SPACE **DIVISION** NEXT

```
CR CO., LTD.◢
GEAR DAVID◢
262-361-5400◢
PRODUCT MANAGER◢
CONSUMER PRODUCTS DIVISION◢
P.O.BOX ?

IN  CAPS        BUSICARD
```

Enter the post office box number and press the NEXT key. The message "ADDRESS ?" appears to ask you to enter the employer's address.

7000 NEXT

```
GEAR DAVID◢
262-361-5400◢
PRODUCT MANAGER◢
CONSUMER PRODUCTS DIVISION◢
7000◢
ADDRESS ?

IN  CAPS        BUSICARD
```

Enter the address and press the NEXT key. The message "TELEX NUMBER ?" appears to ask you to enter the employer's telex number.

570 SPACE **MOUNT** SPACE **PLEASANT** SPACE **AVE.** ↵
DOVER, SPACE **NJ** SPACE **07801** NEXT

```
PRODUCT MANAGER◢
CONSUMER PRODUCTS DIVISION◢
7000◢
570 MOUNT PLEASANT AVE.↵
DOVER, NJ 07801◢
TELEX NUMBER ?

IN  CAPS        BUSICARD
```

Enter the telex number and press the NEXT key. The message "FAX NUMBER ?" appears to ask you to enter the employer's facsimile number.

642754 NEXT

```
CONSUMER PRODUCTS DIVISION◢
7000◢
570 MOUNT PLEASANT AVE.↵
DOVER, NJ 07801◢
642754◢
FAX NUMBER ?

IN  CAPS        BUSICARD
```

Enter the facsimile number and press the NEXT key. The message "FREE 1 ?" appears to ask for input for the first user-definable entry.

262-361-3819 NEXT

```
7000◢
570 MOUNT PLEASANT AVE.↵
DOVER, NJ 07801◢
642754◢
262-361-3819◢
FREE 1 ?

IN  CAPS        BUSICARD
```

You can keep pressing the NEXT key to continue entering five more "FREE" items. Here, we will press the SET key to store this data item into memory.

SET

```
CR CO., LTD.
GEAR DAVID              262-361-5400
PRODUCT MANAGER
CONSUMER PRODUCTS DIVISION
7000
▼ 570 MOUNT PLEASANT AVE.

IN  CAPS        BUSICARD
```

- Business Card Library data items are stored in alphabetical order (see page 266) according to the EMPLOYER entry. In the case that more than one individual is registered for a single employer, their data is arranged in alphabetical order according to the NAME entry.
- If you wish to skip any of the prompted entries, simply press the NEXT key without entering any data.
- While a combine mark (C) (see page 62) is on the display, the SET key will not store any data. Delete the combine mark using the DEL key before pressing SET.

Recalling Business Card Library data

Data stored in the Business Card Library can be recalled using one of the following procedures:

- Index Search

Scrolling through the alphabetical listing of employer names only.

- Direct Search

Recall of all items under a name that begins with specific characters.

- Random Search

Recall of all items that contain specific characters.

- Combined Search

Recall of all items according to multiple specifications.

About the Business Card Library display

Three different display formats are used in the Business Card Library.

- Employer Name Display

This format shows employer names only.

- Data Display

This format shows all of the data entered for one individual.

- Name/Number Display

This format shows individual names and telephone numbers only.

Employer Name Display

```
CBA ELECTRONICS CO., LTD.
CBC EUROPE
CR CO., LTD.
EXPRESS AD
FX FINANCE CO., LTD.
QD MOTORS

          BUSICARD
```

Data Display ↓ DISPLAY CHANGE ↑

```
CBA ELECTRONICS CO., LTD.
GEAR MIKE                01-4509131
PRODUCT MANAGER
CONSUMER PRODUCT DIVISION
7000
▼ Unit 6, 1000 NORTH CIRCULAR ROAD

          BUSICARD
```

When the total number of characters used for two consecutive FREE items is less than 15, the two items are displayed on one line.

Name/Number Display

```
GEAR MIKE                01-4509131




          BUSICARD                SEARCH
```

Data Display ↓ DISPLAY CHANGE ↑

```
CBA ELECTRONICS CO., LTD.
GEAR MIKE                01-4509131
PRODUCT MANAGER
CONSUMER PRODUCT DIVISION
7000
▼ Unit 6, 1000 NORTH CIRCULAR ROAD

          BUSICARD                SEARCH
```

Use the procedure outlined in **To store data** to input the following data.

STEWART JANE Chief Engineer, Engineering and Development, QD MOTORS QD Building, 10250 QD Road, Chicago, IL P.O.BOX: 1234567 Tel: 631-343-6666 Fax: 631-343-6969
FLOYD SCOTT Assistant Professor, Marketing and Economics, FX UNIVERSITY 34567 X.Y. Avenue, New York, NY 10170 P.O.BOX: 10001 Tel: 222-228-8227
GOMEZ CARLOS Sales Director, Calculator Division, CBC EUROPE World Trade Centre, Strawinsky Laan 1, Tower B10 1077KX, Amsterdam Tel: (AMS)020-5733911
LYLE THOMAS Account Manager, Marketing and Planning Division, CW ELECTRIC 15700 X.X. Street, New York, NY 10170 P.O.BOX: 5500 Tel: 222-228-1122

ROBINSON LUCY
Copywriter, Domestic Advertisement Division, HW ADVERTISING INC.
89012 A.B. Avenue, New York, NY 10170 P.O.BOX: 30003
Tel: 222-228-1234

WILLIAMS ROBERT
Vice-President, Latin America Region, QD MOTORS
QD Building, 10250 QD Road, Chicago, IL P.O.BOX: 1234567
Tel: 631-343-6666 Fax: 631-343-6969

MAYER RICK
Sales Manager, A.V. Products, CBA ELECTRONICS CO., LTD.
Unit 6, 1000 North Circular Road, London HW2 7JD
Tel: (LONDON)01-4509131 Telex: 883446

GARDNER JEFF
Analyst, Consumer Products Market, FC BANK
785634 PB Road, New York, NY 10170
Tel: 222-228-5656

To locate data using Index Search

Example: Search for the Business Card Library data stored for QD Motors.

Press the [BUSINESS CARD] key to enter the Business Card Library.

[BUSINESS CARD]

```
*** BUSINESS CARD LIBRARY ***

EMPLOYER                    8
DATA ITEMS                  9
MARKED                      0

          BUSICARD
```

This display indicates that there are currently nine data items stored in memory, including eight different employers. Of these, none are marked. For further details on marked data items, see page 158.

Press the [▼] key to display the first set of six employer names.

[▼]

```
CBA ELECTRONICS CO., LTD.
CBC EUROPE
CR CO., LTD.
CW ELECTRIC
FC BANK
FX UNIVERSITY

          BUSICARD
```

When the total number of characters making up an employer name is greater than 32, only its first 32 characters are shown on the Employer Name Display.

Press [▼] to scroll down to the next page of names and numbers.

[▼]

```
HW ADVERTISING INC.
QD MOTORS

          BUSICARD
```

Press the [▼] key until the employer name "QD MOTORS" is at the top of the display.

[▼]

```
QD MOTORS

          BUSICARD
```

Press the DISPLAY CHANGE key to change to the Data Display.

DISPLAY CHANGE

```
  QD MOTORS
  STEWART JANE          631-343-6666
  Chief Engineer
  Engineering and Development
  1234567
▼ QD Building, 10250 QD Road,
          BUSICARD
```

All of the data stored for a single individual is shown. Press ▼ to move to the next data item stored under QD Motors.

▼

```
  QD MOTORS
  WILLIAMS ROBERT       631-343-6666
  Vice-President
  Latin America Region
  1234567
▼ QD Building, 10250 QD Road,
          BUSICARD
```

Press the ▼ key to view this data.

▼

```
▲ WILLIAMS ROBERT       631-343-6666
  Vice-President
  Latin America Region
  1234567
  QD Building, 10250 QD Road,
▼ Chicago, IL
          BUSICARD
```

If you press the DISPLAY CHANGE key again, the Employer Name Display will reappear with "QD MOTORS" at the top.

To locate data using Direct Search

Example: Search for the data stored for Carlos Gomez.

Anytime you press the CLEAR key in the Business Card Library, the message "SEARCH FOR ?" appears to ask you for the name you wish to locate.
Enter the name "GOMEZ".
And press the SEARCH key.

CLEAR CAPS **GOMEZ** SEARCH

```
  GOMEZ CARLOS          (AMS)020-5733911




  CAPS          BUSICARD                SEARCH
```

A Name/Number Display shows the name and telephone number for the name that you specified at the top.
Press the DISPLAY CHANGE key to switch to the Data Display.

DISPLAY CHANGE

```
  CBC EUROPE
  GOMEZ CARLOS          (AMS)020-5733911
  Sales Director
  Calculator Division
  World Trade Centre, Strawinsky
▼ Laan 1, Tower B10 1077KX,
    CAPS          BUSICARD          SEARCH
```

- When the total number of characters making up the name and telephone number is greater than 32, only the name is displayed in the Name/Number Display. If the name itself exceeds 32 characters, only its first 32 characters are shown on the Name/Number Display.
- The above procedure can also be performed specifying "GOMEZ CARLOS", or simply "G".
- If more than one Business Card Library item matches the specification you enter for "SEARCH FOR ?", they will appear together on Name/Number Display. Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key to switch to its Data Display.

To locate data using Random Search

Example: Search for all of the data items that contain the text "Marketing".

While in the Business Card Library, press the [CLEAR] key. The message "SEARCH FOR ?" appears to ask you what to search for.
Enter "Marketing".

Press [SHIFT] followed by the [SEARCH] key.

[CLEAR] [SHIFT] **MARKETING** [SHIFT] [SEARCH]

```
LYLE THOMAS              222–228–1122
FLOYD SCOTT              222–228–8227

BUSICARD                          SEARCH
```

The names and telephone numbers for all of the persons whose data items contain the text you specified appear as a Name/Number Display.

Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key switch to its Data Display.

[DISPLAY CHANGE]

```
CW ELECTRIC
LYLE THOMAS              222–228–1122
Account Manager
Marketing and Planning Division
5500
▼ 15700 X.X. Street, New York,

BUSICARD                          SEARCH
```

Press the [▼] key to view the data off of the bottom of the display. You can also press [▼] to switch to the next individual's Data Display, or [▲] to switch to the previous individual's Data Display.

[▼]

```
FX UNIVERSITY
FLOYD SCOTT              222–228–8227
Assistant Professor
Marketing and Economics
10001
▼ 34567 X.Y. Avenue, New York,

BUSICARD                          SEARCH
```

Using Combined Search

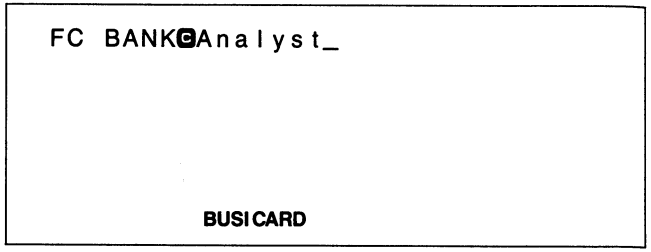
With Combined Search, you can make more than one specification for the type of data to search for. This reduces the number of items that match the specification, making it quicker and easier to locate specific Business Card Library data items.
Actually, there are two Combined Search procedures, Direct Combined Search and Random Combined Search.

To locate data using Direct Combined Search

Example: Locate the data for all analysts at the FC Bank.

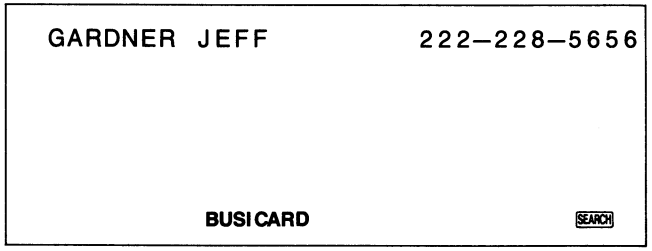
While in the Business Card Library, press the CLEAR key. The message "SEARCH FOR ?" appears to ask you the data you wish to search for. Enter "FC BANK".
Press the COM-BINE key and enter "Analyst".

CLEAR CAPS **FC** SPACE **BANK** COM-BINE **A** CAPS **NALYST**



Press the SEARCH key.

SEARCH



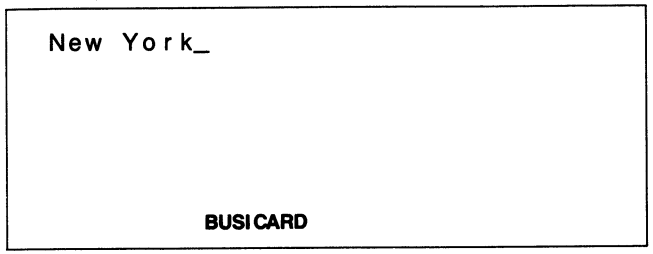
The corresponding name and telephone number appear at the top of the display. Press the DISPLAY CHANGE key to switch to the Data Display.

To locate data using Random Combined Search

Example: Locate the data for all individuals who work in the advertising industry in New York.

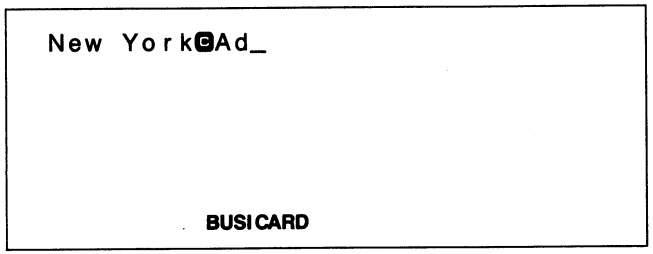
While in the Business Card Library, press the CLEAR key. The message "SEARCH FOR ?" appears to ask you the data you wish to search for. Enter "New York".

CLEAR SHIFT **NEW** SPACE SHIFT **YORK**



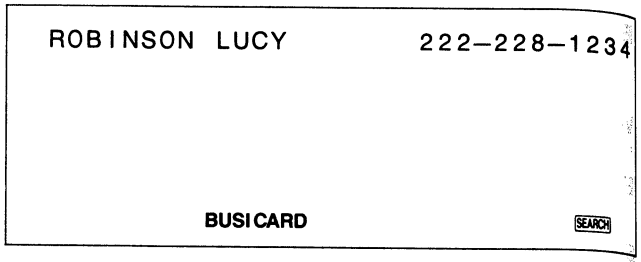
Press the COM-BINE key and enter "Ad".

COM-BINE SHIFT **AD**



Press [SHIFT] followed by the [SEARCH] key.

[SHIFT][SEARCH]



The corresponding name and telephone number appear at the top of the display. Press the [DISPLAY CHANGE] key to change to the Data Display.

Using the Memo Function

The Memo function lets you store such data as timetables, price lists and general memorandum.

Format

Each Memo data item can include up to 384 characters (including newline marks (↵)).

To store data

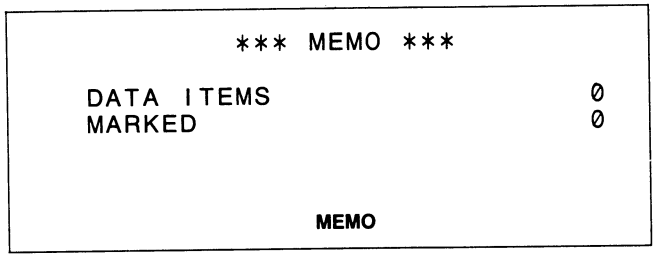
Example: Let us store the following subway timetable in memory.

SUBWAY TIMETABLE

7:00	05	14	22	30	41	52
8:00	08	16	24	33	42	55
9:03	12	20	29	38	46	56
10:05	14	23	32	41	50	58
11:07	16	25	34	43	51	59
12:08	17	26	35	43	53	

Press the [MEMO] key.

[MEMO]



Press the [DATA IN/OUT] key. [IN] appears on the display.
Press the [CLEAR] key, and the message "MEMO ?" appears to ask you to enter memo data.

[DATA IN/OUT] [CLEAR]

```
MEMO ?




[IN]                    MEMO
```

Enter the first line.

[CAPS] **SUBWAY** [SPACE] **TIMETABLE** [↵]

```
SUBWAY TIMETABLE↵
_




[IN] [CAPS]             MEMO
```

Proceed as described below.

[SPACE] **7:00** [SPACE] **05** [SPACE] **14** [SPACE] **22** [SPACE] **30** [SPACE] **41** [SPACE] **52** [↵]

```
SUBWAY TIMETABLE↵
 7:00 05 14 22 30 41 52↵
_




[IN] [CAPS]             MEMO
```


12:08 [SPACE] **17** [SPACE] **26** [SPACE] **35** [SPACE] **43** [SPACE] **53**

```
 7:00 05 14 22 30 41 52↵
 8:00 08 16 24 33 42 55↵
 9:03 12 20 29 38 46 56↵
10:05 14 23 32 41 50 58↵
11:07 16 25 34 43 51 59↵
12:08 17 26 35 43 53_

[IN] [CAPS]             MEMO
```

After you complete entering the data press the [SET] key to store this data item into memory.

Recalling Memo data

Data stored in the Memo Mode can be recalled using one of the following procedures:

- Index Search
Scrolling through a list of the first lines of each data item stored.
- Direct Search
Recall of all items with a specific first line.
- Random Search
Recall of all items that contain specific characters.
- Sequential Search
Scrolling through data items.

About the Memo display

Two different display formats are used for memos.

• Index Display
This format shows only the first lines of all memos currently stored in memory. We will refer to these as ***memo names***.

• Data Display
This format shows all of the data entered for one memo item.

Index Display

```
SUBWAY TIMETABLE
PRICE LIST (TAX FREE)
CREDIT CARD NUMBERS
PASSPORT NUMBER
AIRLINE SCHEDULE – N.Y.~TOKYO
AIRLINE SCHEDULE – TOKYO~LONDON
                    MEMO
```

Data Display ↓ DISPLAY CHANGE ↑

```
SUBWAY TIMETABLE
 7:00 05 14 22 30 41 52
 8:00 08 16 24 33 42 55
 9:03 12 20 29 38 46 56
10:05 14 23 32 41 50 58
▼11:07 16 25 34 43 51 59
                    MEMO
```


Use the procedure outlined in **To store data** to input the following data.

Memo name	Contents
PRICE LIST (TAX FREE)	Perfume $200 Tie $125
DRIVER'S LICENSE	Valid until Oct. 29, 1993 Number A-123456
PASSPORT	Valid until Dec. 11, 1995 Number XY543210
AIRLINE SCHEDULE — N.Y.~TOKYO	Jan. 8 11:30 50 12:10 30 55
AIRLINE SCHEDULE — TOKYO~LONDON	Jan. 14 14:15 35 55 15:10
PLAN A	BUSINESS in SAPPORO with Mr. Yamada
PLAN B	BUSINESS in TOKYO with Mr. Howard

To locate data using Index Search

Example: Search for the data stored under the name "PLAN B".

Press the MEMO key to enter the Memo Mode.

MEMO

```
        *** MEMO ***

DATA ITEMS              8
MARKED                  0


                    MEMO
```

This display indicates that there are currently eight memos stored in memory. Of these, none are marked. For further details on marked data items, see page 158.

Press the [▼] key to display the first set of six memo names.

[▼]

```
SUBWAY TIMETABLE
PRICE LIST (TAX FREE)
DRIVER'S LICENSE
PASSPORT
AIRLINE SCHEDULE – N.Y.~TOKYO
AIRLINE SCHEDULE – TOKYO~LONDON
                    MEMO
```

Press [▼] to scroll down to the next page of memo names.

[▼]

```
PLAN A
PLAN B


                    MEMO
```

Press the [▼] key until the memo name "PLAN B" is at the top of the display.

[▼]

```
PLAN B


                    MEMO
```


Press the [DISPLAY CHANGE] key to change to the Data Display.

[DISPLAY CHANGE]

```
PLAN B
BUSINESS in TOKYO
with Mr. Howard


                    MEMO
```

If you press the [DISPLAY CHANGE] key again while this Data Display is shown, the Index Display will reappear with the memo name "PLAN B" at the top.

To locate data using Direct Search

Example: Search for the data stored under "SUBWAY TIMETABLE".

Anytime you press the [CLEAR] key in the Memo Mode, the message "SEARCH FOR ?" appears to ask you for the name of the memo you wish to locate. Enter "SUBWAY".

And press the [SEARCH] key.

[CLEAR] [CAPS] **SUBWAY** [SEARCH]

```
SUBWAY TIMETABLE


CAPS                MEMO                SEARCH
```

An Index Display appears with the memo name you specified at the top.

Press the [DISPLAY CHANGE] key to switch to the Data Display.

[DISPLAY CHANGE]

```
  SUBWAY TIMETABLE
   7:00  05  14  22  30  41  52
   8:00  08  16  24  33  42  55
   9:03  12  20  29  38  46  56
  10:05  14  23  32  41  50  58
▼ 11:07  16  25  34  43  51  59

   CAPS            MEMO          SEARCH
```

The ▼ indicator on the left of the display indicates that more data is present off of the bottom of the display. Press the [▼] key to view this data.

[▼]

```
▲  7:00  05  14  22  30  41  52
   8:00  08  16  24  33  42  55
   9:03  12  20  29  38  46  56
  10:05  14  23  32  41  50  58
  11:07  16  25  34  43  51  59
  12:08  17  26  35  43  53

   CAPS            MEMO          SEARCH
```

- The above procedure can also be performed specifying "SU" or simply "S".
- If more than one Memo name matches the specification you enter for "SEARCH FOR ?", they will appear together on Index Display. Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key to switch to its Data Display.
- To clear the [SEARCH] indicator from the display and cancel the search procedure, press the [SEARCH] key again.

To locate data using Random Search

Example: Search for all data items that contain the text "valid".

While in the Memo Mode, press the [CLEAR] key. The message "SEARCH FOR ?" appears to ask you what to search for.
Enter "Valid".

And press [SHIFT] followed by the [SEARCH] key.

[CLEAR] [SHIFT] **VALID** [SHIFT] [SEARCH]

```
DRIVER'S LICENSE
PASSPORT




                MEMO          SEARCH
```

The names of all of the memos that contain the text you specified appear as an Index Display.

Use the [▲] and [▼] keys to select one of the displayed names by positioning it in the top line of the display, and then press the [DISPLAY CHANGE] key switch to its Data Display.

[DISPLAY CHANGE]

```
DRIVER'S LICENSE
Valid until Oct. 29, 1993
Number A—123456
PASSPORT
Valid until Dec. 11, 1995
Number XY543210

                MEMO          SEARCH
```

To locate data using Sequential Search

Example: Use Index Search to display the "SUBWAY TIMETABLE" memo, and then move to the "AIRLINE SCHEDULE — N.Y. ~TOKYO" memo.

MEMO ▼ DISPLAY CHANGE

```
SUBWAY TIMETABLE
 7:00 05 14 22 30 41 52
 8:00 08 16 24 33 42 55
 9:03 12 20 29 38 46 56
10:05 14 23 32 41 50 58
▼11:07 16 25 34 43 51 59
                  MEMO
```

Press ▼ to display the next item.

▼

```
PRICE LIST (TAX FREE)
Perfume $200
Tie     $125
DRIVER'S LICENSE
Valid until Oct. 29, 1993
Number A—123456
                  MEMO
```


Press ▼ again to display the "AIRLINE SCHEDULE — N.Y.~TOKYO" memo.

▼▼▼

```
 AIRLINE SCHEDULE — N.Y.~TOKYO
 Jan. 8
 11:30 50
 12:10 30 55
 AIRLINE SCHEDULE — TOKYO~LONDON
▼Jan. 14
                  MEMO
```

Use the ▼ key to scroll down to the data that is off the bottom of the display.

▼

```
▲Jan. 8
 11:30 50
 12:10 30 55
 AIRLINE SCHEDULE — TOKYO~LONDON
 Jan. 14
▼14:15 35 55
                  MEMO
```

▼

```
▲11:30 50
 12:00 30 55
 AIRLINE SCHEDULE — TOKYO~LONDON
 Jan. 14
 14:15 35 55
 15:10
                  MEMO
```

Inserting a memo between two existing memos

Generally, memos are stored in the same sequence that they are entered. The following operation makes it possible for you to enter a new memo between two existing memos.

To insert a memo between two existing memos

Example: Enter the data listed below into a memo before the memo named "PASSPORT".

CREDIT CARD NUMBERS	Casio Credit 12345 Digital Credit 98765

Recall the list of memo names using Index Search.

[MEMO] [▼] [▼] [▼] [▼]

```
PASSPORT
AIRLINE SCHEDULE – N.Y.~TOKYO
AIRLINE SCHEDULE – TOKYO~LONDON
PLAN A
PLAN B

                          MEMO
```

Press the [DATA IN/OUT] key for data input.

[DATA IN/OUT] [CAPS] **CREDIT** [SPACE] **CARD** [SPACE] **NUMBERS**

```
CREDIT CARD NUMBERS_

[IN] [CAPS]               MEMO
```


Press the [↵] key to move to the next line.

[↵] **C** [CAPS] **ASIO** [SPACE] [SHIFT] **CREDIT** [SPACE] **12345** [↵]
[SHIFT] **DIGITAL** [SPACE] [SHIFT] **CREDIT** [SPACE] **98765**

```
CREDIT CARD NUMBERS↵
Casio Credit 12345↵
Digital Credit 98765_

[IN]                      MEMO
```

Press [SHIFT] followed by the [SET] key to store the memo before PASSPORT.

[SHIFT] [SET]

```
CREDIT CARD NUMBERS
Casio Credit 12345
Digital Credit 98765
PASSPORT
Valid until Dec. 11, 1995
Number XY543210

[IN]                      MEMO
```

- If you press [SET] only instead of [SHIFT] [SET] to store the above memo, it will automatically be stored as the last memo on the Index Display list.
- Note that the position that you select to insert a memo is cleared if you press the [CLEAR] key while you are entering the new memo. If, after you press [CLEAR], you resume entering the new memo and then press [SHIFT] [SET], the new memo will be stored as the last memo on the Index Display list.
- Data items may be inserted between other data items. You cannot insert a data item into another data item.

Using the Calendar Function

The Calendar function gives you instant access to any full month calendar from January 1901 through December 2099. The wide display shows two calendars simultaneously.

Displaying a calendar for a specific month

There are three methods that you can use to display the calendar for a specific month.

- Current date calendar

This method displays the calendar for the month that contains the current date.

- CAL mode specification

You can specify a month while the SF Unit is in the CAL mode.

- Calendar display specification

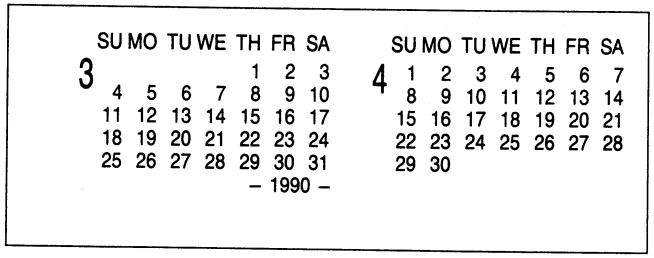
Any month that you specify while the SF Unit is displaying a calendar appears instantly.

To display the current date's calendar

Each time you press the [CALENDAR] key, the calendar for the month that contains the current date appears automatically on the display.

Example: Press the [CALENDAR] key (assuming that today's date is March 10, 1990).

[CALENDAR]



	SU	MO	TU	WE	TH	FR	SA
3					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31

– 1990 –

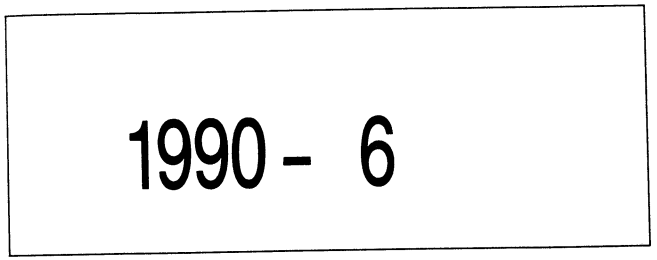
	SU	MO	TU	WE	TH	FR	SA
4	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					

The current date is based upon the current HOME TIME setting (see page 126 for details).

To specify a month in the CAL mode

Example: Recall June — July 1990.

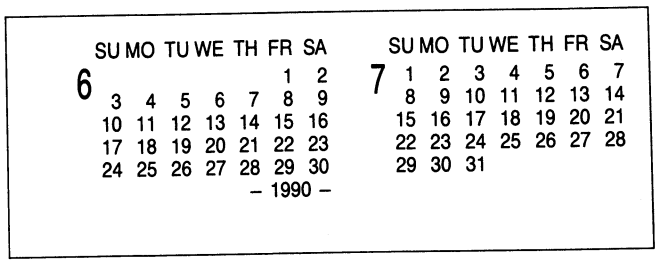
[CAL] **90** [DATE] **6**



1990 - 6

Years in the 20th century may be entered using the last two digits only (1989→89), but 21st century years must be entered in four digits.

Press the [CALENDAR] key.



	SU	MO	TU	WE	TH	FR	SA
6						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30

– 1990 –

	SU	MO	TU	WE	TH	FR	SA
7	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

To specify a month in the Calendar display

Example: Display the calendars for August and September 1990.

While a calendar is displayed, press the [CLEAR] key.

[CLEAR]

```
YEAR ?
_
```

90 [DATE] 8 [DATE]

```
DATE ?
1990- 8- _
```

Press the [CALENDAR] key to display the specified calendar.

[CALENDAR]

```
 8                                    9
SU MO TU WE TH FR SA                 SU MO TU WE TH FR SA
          1  2  3  4                                    1
 5  6  7  8  9 10 11                 2  3  4  5  6  7  8
12 13 14 15 16 17 18                 9 10 11 12 13 14 15
19 20 21 22 23 24 25                16 17 18 19 20 21 22
26 27 28 29 30 31                   23 24 25 26 27 28 29
          - 1990 -                  30
```


To scroll through calendars

Example:

```
11                                   12
SU MO TU WE TH FR SA                 SU MO TU WE TH FR SA
                1  2  3                                    1
 4  5  6  7  8  9 10                 2  3  4  5  6  7  8
11 12 13 14 15 16 17                 9 10 11 12 13 14 15
18 19 20 21 22 23 24                16 17 18 19 20 21 22
25 26 27 28 29 30                   23 24 25 26 27 28 29
          - 1990 -                  30 31
```

[▼] ↓ ↑ [▲]

```
12                                   1
SU MO TU WE TH FR SA                 SU MO TU WE TH FR SA
                                1                1  2  3  4  5
 2  3  4  5  6  7  8                 6  7  8  9 10 11 12
 9 10 11 12 13 14 15                13 14 15 16 17 18 19
16 17 18 19 20 21 22                20 21 22 23 24 25 26
23 24 25 26 27 28 29                27 28 29 30 31
30 31                                        - 1991 -
          - 1990 -
```

```
12                                   1
SU MO TU WE TH FR SA                 SU MO TU WE TH FR SA
                                1                1  2  3  4  5
 2  3  4  5  6  7  8                 6  7  8  9 10 11 12
 9 10 11 12 13 14 15                13 14 15 16 17 18 19
16 17 18 19 20 21 22                20 21 22 23 24 25 26
23 24 25 26 27 28 29                27 28 29 30 31
30 31                                        - 1991 -
          - 1990 -
```

[▼] ↓ ↑ [▲]

```
 2                                   3
SU MO TU WE TH FR SA                 SU MO TU WE TH FR SA
                1  2                                 1  2
 3  4  5  6  7  8  9                 3  4  5  6  7  8  9
10 11 12 13 14 15 16                10 11 12 13 14 15 16
17 18 19 20 21 22 23                17 18 19 20 21 22 23
24 25 26 27 28                      24 25 26 27 28 29 30
          - 1991 -                  31
```

- The [▼] key operation can also be performed by pressing the [CALENDAR] key.
- Holding down the [▼], [▲], [▼], or [▲] key scrolls through the calendars at high speed.

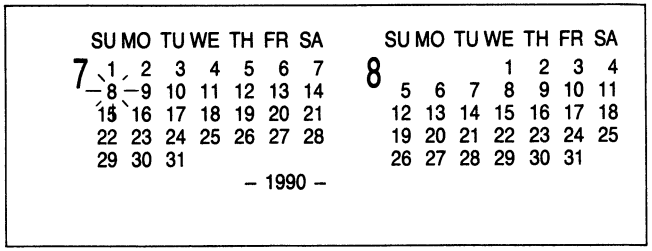
To highlight holidays and special dates

The following procedure shows how to specify dates for highlighting.

Example: Highlight July 8 and 22, 1990.

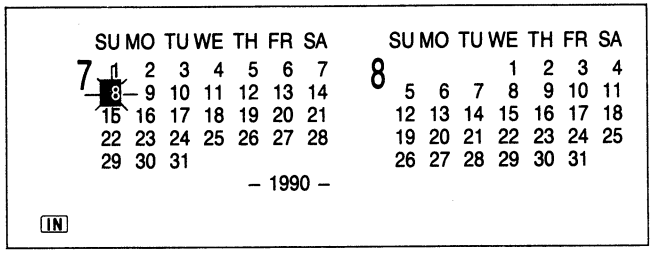
Select July 8.

[CALENDAR] [CLEAR] **90** [DATE] **7** [DATE] [CALENDAR] [▶] [▼] (or enter 8)



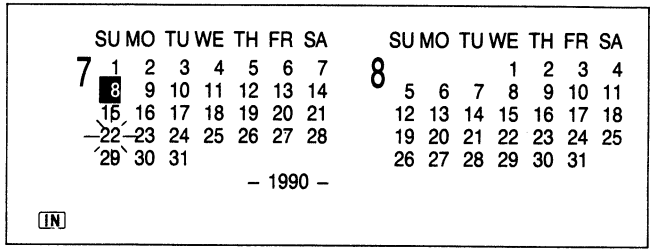
Press the [DATA IN/OUT] key and then the [SET] key to highlight July 8.

[DATA IN/OUT] [SET]



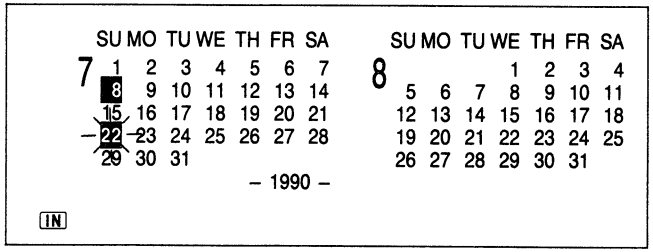
Select July 22.

[▼] [▼] (or enter 22)



Press the [SET] key to highlight July 22.

[SET]



To set multiple month highlights

Example: To highlight all Saturdays and Sundays from January through December 1990.

Display the starting month of the period on the left of the display.

CALENDAR CLEAR **90** DATE **1** DATE CALENDAR

```
      SU MO TU WE TH FR SA          SU MO TU WE TH FR SA
1      1  2  3  4  5  6    2                    1  2  3
   7  8  9 10 11 12 13       4  5  6  7  8  9 10
  14 15 16 17 18 19 20      11 12 13 14 15 16 17
  21 22 23 24 25 26 27      18 19 20 21 22 23 24
  28 29 30 31               25 26 27 28
                 - 1990 -
```

Press the DATA IN/OUT key, followed by the FUNCTION key.

DATA IN/OUT FUNCTION

```
 1 MULTIPLE MONTH HIGHLIGHT CLEAR

 3 MULTIPLE MONTH HIGHLIGHT SET
 4 DATA COMMUNICATION
 5 CALENDAR FORMAT
 6 SOUND

IN
```

Press the 3 key to select "MULTIPLE MONTH HIGHLIGHT SET".

3

```
 MULTIPLE MONTH HIGHLIGHT SET ?
FROM:              1990- 1
                         ↓
TO YEAR ?                _

IN
```


Specify the ending month and year.

90 DATE **12** DATE

```
  MULTIPLE MONTH HIGHLIGHT SET ?

SUNDAY     [\\\///]   THURSDAY   [     ]
MONDAY     [///\\\]   FRIDAY     [     ]
TUESDAY    [     ]    SATURDAY   [     ]
WEDNESDAY  [     ]

IN
```

Here, Sunday is already selected, so press the MARK key to specify it as one of the highlighted days for the period you specified above.

MARK

```
  MULTIPLE MONTH HIGHLIGHT SET ?

SUNDAY     [SET]   THURSDAY   [     ]
MONDAY     [     ]   FRIDAY     [     ]
TUESDAY    [     ]   SATURDAY   [     ]
WEDNESDAY  [     ]

IN
```

Use the cursor keys to select Saturday, and press MARK.

▶ ▼ ▼ MARK

```
  MULTIPLE MONTH HIGHLIGHT SET ?

SUNDAY     [SET]   THURSDAY   [     ]
MONDAY     [     ]   FRIDAY     [     ]
TUESDAY    [     ]   SATURDAY   [SET]
WEDNESDAY  [     ]

IN
```

Press the SET key to complete the procedure and highlight the days on the calendars.

SET

```
      SU MO TU WE TH FR SA          SU MO TU WE TH FR SA
12                     1        1              1  2  3  4  5
    2  3  4  5  6  7  8          6  7  8  9 10 11 12
    9 10 11 12 13 14 15         13 14 15 16 17 18 19
   16 17 18 19 20 21 22         20 21 22 23 24 25 26
   23 24 25 26 27 28 29         27 28 29 30 31
   30 31          - 1990 -                    - 1991 -
IN
```

For longer periods, it may take some time for the setting procedure. In such a case, the following message appears:

NOW SETTING HIGHLIGHTS ! TO STOP PRESS ESC KEY.

Changing the calendar format

The procedure described here lets you switch the day of the week sequence between Sunday through Saturday, and Monday through Sunday.

Example: To change the calendar format from Sunday through Saturday to Monday through Sunday.

Press the CALENDAR key to display a calendar.

CALENDAR

```
      SU MO TU WE TH FR SA          SU MO TU WE TH FR SA
4  1  2  3  4  5  6  7        5              1  2  3  4  5
   8  9 10 11 12 13 14          6  7  8  9 10 11 12
  15 16 17 18 19 20 21         13 14 15 16 17 18 19
  22 23 24 25 26 27 28         20 21 22 23 24 25 26
  29 30          - 1990 -      27 28 29 30 31
```


Press the FUNCTION key.

FUNCTION

```
4 DATA COMMUNICATION
5 CALENDAR FORMAT
6 SOUND
```

Press the 5 key to select "CALENDAR FORMAT".

5

```
1 [SUN]——>[SAT]
2 [MON]——>[SUN]

                    —CALENDAR FORMAT—
```

Press the 2 key to select the [MON] → [SUN] option.

2

```
      MO TU WE TH FR SA SU          MO TU WE TH FR SA SU
4                     1        5     1  2  3  4  5  6
   2  3  4  5  6  7  8           7  8  9 10 11 12 13
   9 10 11 12 13 14 15          14 15 16 17 18 19 20
  16 17 18 19 20 21 22          21 22 23 24 25 26 27
  23 24 25 26 27 28 29          28 29 30 31
  30          - 1990 -
```

- To switch back to the Sunday through Saturday format, select the "CALENDAR FORMAT" function and then press [1] in the above procedure.
- The setting that you make above is also applied to the weekly Schedule display.

To clear the highlights from an entire month

1. Press the [CALENDAR] key to enter the Calendar display.
2. Locate the calendar whose highlights you wish to clear on the left side of the display.
3. Press the [DATA IN/OUT] key.
4. Press the [FUNCTION] key.
5. Press [2] to select "ONE-MONTH HIGHLIGHT CLEAR".
6. Press [SET] to clear all of the date highlights from the month, or [ESC] to cancel the operation and return to the display in Step 3 above.

To clear the highlights from a series of months

1. Press the [CALENDAR] key to enter the Calendar display.
2. Press the [DATA IN/OUT] key.
3. Press the [FUNCTION] key.
4. Press [1] to select "MULTIPLE MONTH HIGHLIGHT CLEAR".
5. Enter the date up to which you want to clear the highlights. Enter the year and press the [DATE] key, then the month followed by the [DATE] key.
   The start date is set from January 1, 1901.
6. Press [SET] to clear date highlights for the specified period, or [ESC] to cancel the operation and return to the display in Step 2 above.

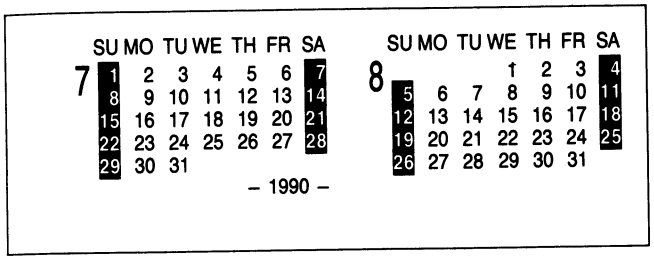
Working day counts

After you highlight holidays on the calendar display, you can then automatically count the number of working days in a specific period.

To count the number of working days

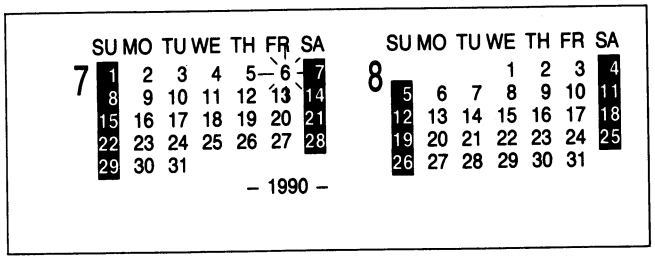
Example: Count the number of working days from July 6, 1990 through August 15, 1990, if all Saturdays and Sundays are highlighted as holidays.

[CALENDAR] [CLEAR] **90** [DATE] **7** [DATE] [CALENDAR]



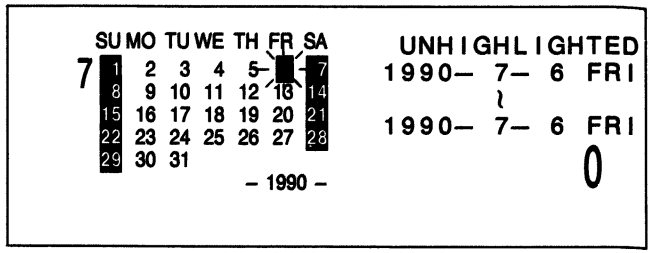
Select July 6.

[▶][▶][▶][▶][▶][▶] (or enter 6)



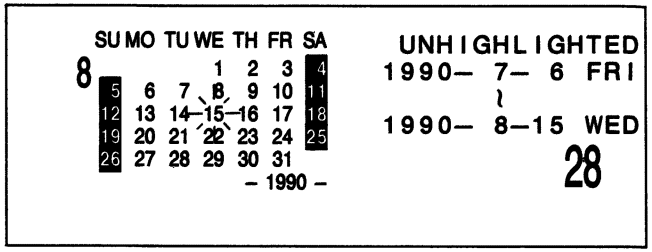
Press the DATE key to specify July 6 as the start date.

DATE



Move the cursor to August 15.

▼▼▼▼▼▼◀◀



According to this display, there are 28 working days in the specified periods.

- If you press the DATE key while the above display is shown, August 15 becomes the start date.
- When moving the cursor to count the number of working days, highlighted dates cannot be selected.
- You cannot specify a highlighted date as a start date.

Using the Schedule Keeper

The Schedule Keeper function works in combination with the Calendar to help keep track of your appointments. Once you make a Schedule Keeper entry, the date of that entry is marked on the calendar to indicate that you have an AM or PM appointment. In addition, an innovative Timetable Display shows you at a glance what time frames throughout the day are filled and which are open.

Format

Each Schedule Keeper data item can include up to 384 characters (including newline marks (↵)). Items are made up of time and remarks.

Entry

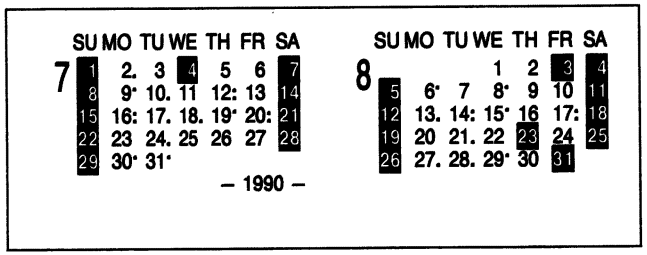
Date	
Time	Remarks

About Schedule Keeper displays

Four different display formats are used in the Schedule Keeper.

• Calendar display markers

Dates that have Schedule Keeper data assigned are automatically marked. The upper mark indicates a morning appointment, while the lower mark indicates an afternoon appointment.



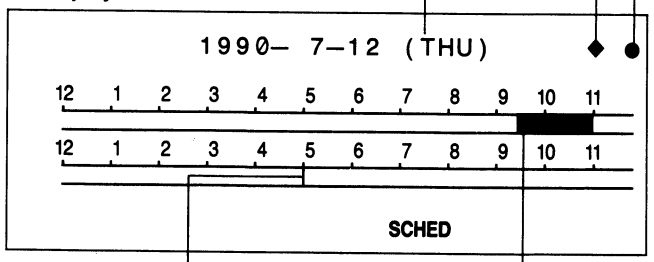
• Timetable Display — shows at a glance when appointments are scheduled throughout an entire day.

If you have highlighted a date on the calendar, the day of the week is in bold brackets; otherwise it is in parentheses.

Indicates no time included with appointment

Indicates term data item

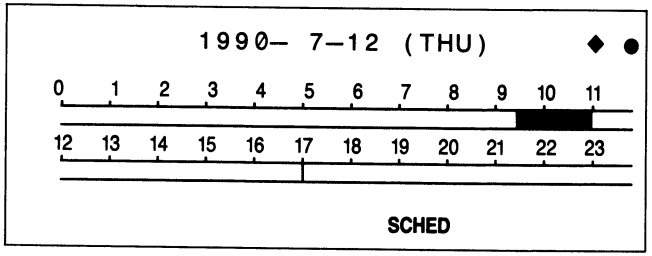
12-hour display



Appointment at 5:00 PM

Appointment from 9:30 AM to 11:00 AM

24-hour display



• Data Display — contains all the details for the appointments.

12-hour display

```
          1990– 7–12 (THU)
        Dinner with Mr. PAGE
  9:30A Product Meeting
    ≀
 11:00A
▼ 5:00P Telephone Mr. SMITH about
                        SCHED
```

24-hour display

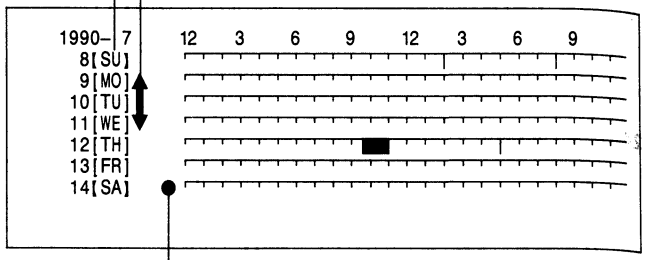
```
          1990– 7–12 (THU)
        Dinner with Mr. PAGE
   9:30 Product Meeting
    ≀
  11:00
▼ 17:00 Telephone Mr. SMITH about
                        SCHED
```

• The weekly schedule display — shows you an entire week's schedule at a glance.

If you have highlighted a date on the calendar the day of the week is in bold brackets.

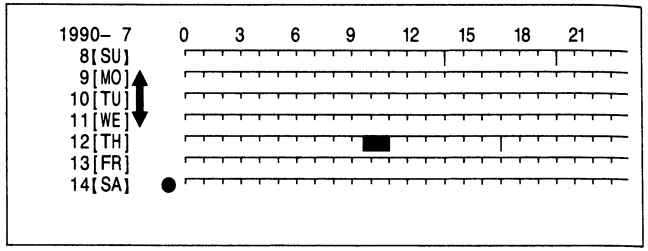
Term data schedule from the 9th through the 11th.

12-hour display



Indicates no time included with appointment.

24-hour display



The Timetable Display and Data Display will use either 12-hour or 24-hour format, depending on the setting you make for the Home Time (see page 134).

Entering the Schedule Keeper

When you enter the Schedule Keeper, you have to enter for a specific date. There are three methods that you can use to specify the date when entering the Schedule Keeper.

• Date specification
Enter the date that you wish to access. You can also specify the date while the SF Unit is in the CAL mode.

• Selection from the Calendar
Select the date that you wish to access on the Calendar display.

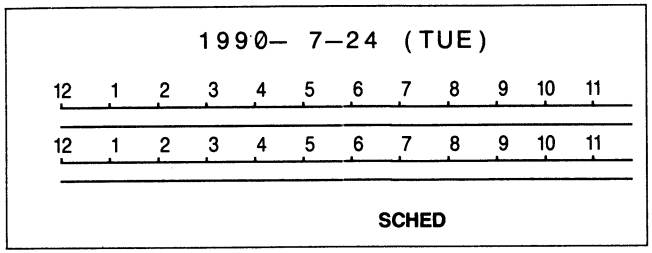
• Sequential selection
Scroll through the dates to find the one you wish to access.

To specify a date

Example: Specify the schedule for July 24, 1990.

Press the [SCHEDULE] key, and enter the date. Press the [DATE] key after each entry.

[SCHEDULE] [SHIFT] [CLEAR] **90** [DATE] **7** [DATE] **24** [DATE]



To specify the date in the CAL mode

1. While in the CAL mode (press the [CAL] key to enter), enter the year, month, and date, pressing the [DATE] key after each entry.
2. After entering the date, press the [SCHEDULE] key to switch directly to the Timetable Display for that date.

To select a date from the Calendar

Example: Select July 3, 1990, and then July 18, 1990.

Display the calendar for July 1990, and select the 3rd.

[CALENDAR] [CLEAR] **90** [DATE] **7** [DATE] [CALENDAR] [▶] [▶] [▶] (or enter 3)

7	SU	MO	TU	WE	TH	FR	SA
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

– 1990 –

8	SU	MO	TU	WE	TH	FR	SA
				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	

Press the [SCHEDULE] key.

[SCHEDULE]

1990– 7– 3 (TUE)

12 1 2 3 4 5 6 7 8 9 10 11

12 1 2 3 4 5 6 7 8 9 10 11

SCHED

Press the [CALENDAR] key to return to the calendar.

[CALENDAR]

7	SU	MO	TU	WE	TH	FR	SA
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

– 1990 –

8	SU	MO	TU	WE	TH	FR	SA
				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	

Select the 18th.

[▼] [▼] [▶] (or enter 18)

7	SU	MO	TU	WE	TH	FR	SA
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

– 1990 –

8	SU	MO	TU	WE	TH	FR	SA
				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	

Press the [SCHEDULE] key.

[SCHEDULE]

1990– 7–18 (WED)

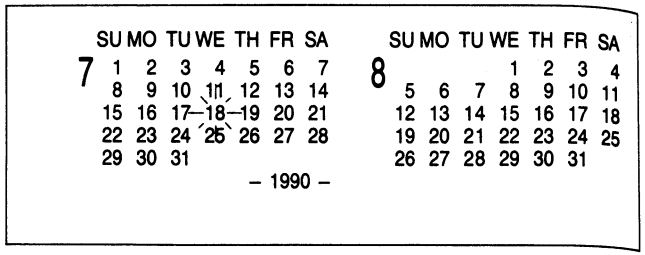
12 1 2 3 4 5 6 7 8 9 10 11

12 1 2 3 4 5 6 7 8 9 10 11

SCHED

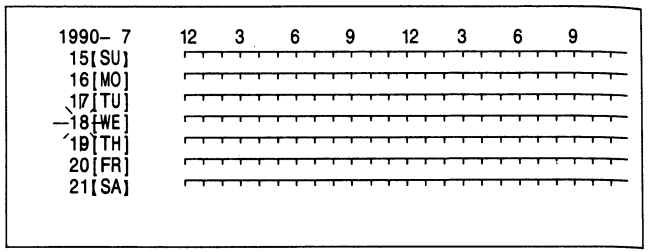
Press the CALENDAR key and the calendar reappears, with the 18th flashing.

CALENDAR



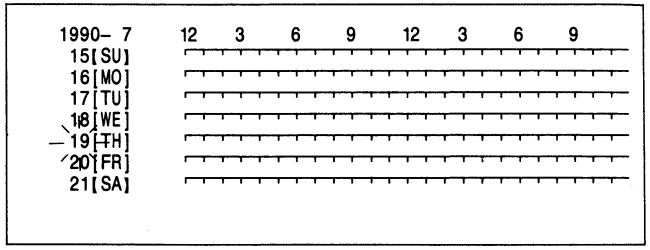
Press the DISPLAY CHANGE key for the weekly schedule for the week that contains the currently selected date (18th here).

DISPLAY CHANGE



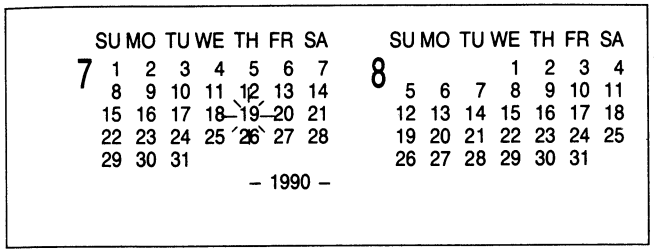
Press the ▼ key so that the 19th is flashing.

▼



Press the DISPLAY CHANGE key and the calendar reappears, this time with the 19th flashing.

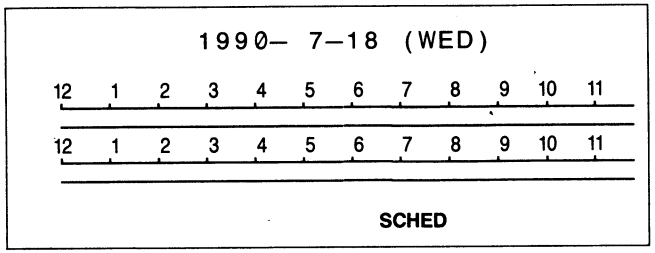
DISPLAY CHANGE



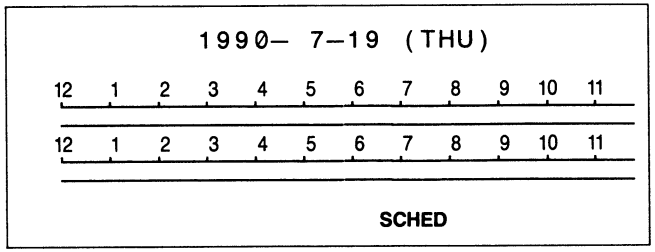
Sequential selection

Example:

SCHEDULE



▼ ↓ ↑ ▲



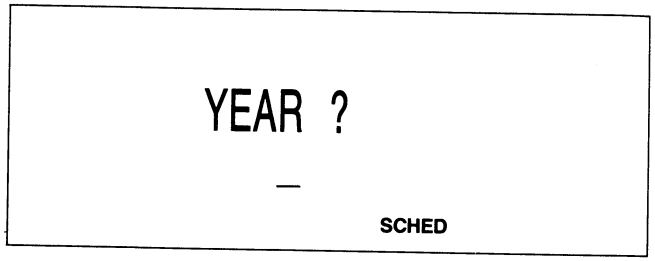
Entering data into the Schedule Keeper

Entering data into the Schedule Keeper is actually quite simple. Rather than attempting to explain it before providing an example, let's go straight into the example to see how it is done.
Let us say that we wish to enter the following information into the Schedule Keeper. This example assumes that 12-hour format is being used (see page 134).

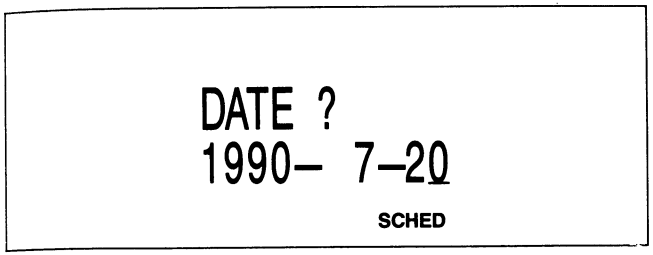
Year	Date	Time	Remarks
1990	7/20	10:00 AM	Planning Meeting
1990	7/20	2:00 PM	New Product Campaign
1990	7/23	9:30 AM	Breakfast with Mr. LEE
1990	7/24		
	↓		New York
	7/25		
1990	7/26	10:00 AM	Discussion about B-PROJECT
1990	7/26	1:00 PM ~ 3:00 PM	Department Meeting (Room 105)
1990	7/26		Meet Mr. McDONALD at A.B. HOTEL

Press the SCHEDULE key. Press SHIFT CLEAR, and enter the year, month and date, pressing the DATE key after each entry (see **Entering the Schedule Keeper** for details).

SCHEDULE SHIFT CLEAR

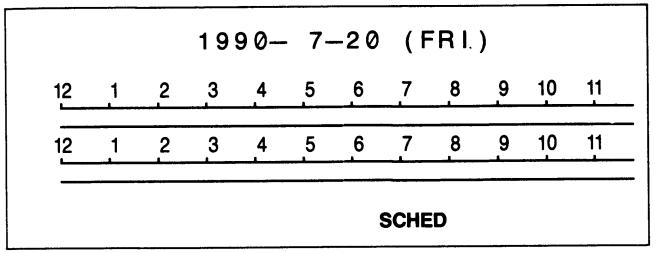


90 DATE 7 DATE 20



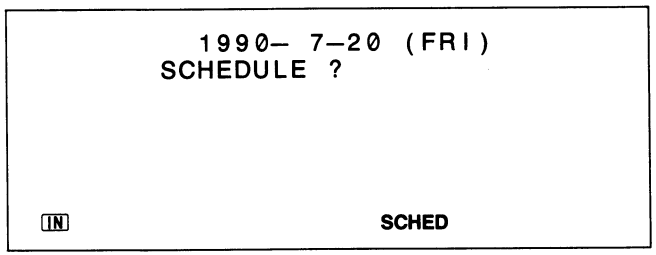
This is the Timetable Display for July 20, 1990.

DATE



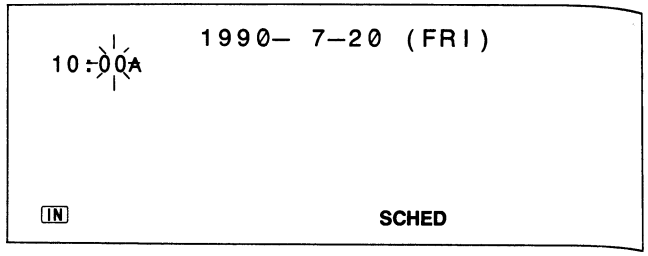
Press the DATA IN/OUT key. Press the CLEAR key, and the message "SCHEDULE ?" appears to ask you to enter the time of the schedule.

DATA IN/OUT CLEAR



Enter the time and then press the TIME key.

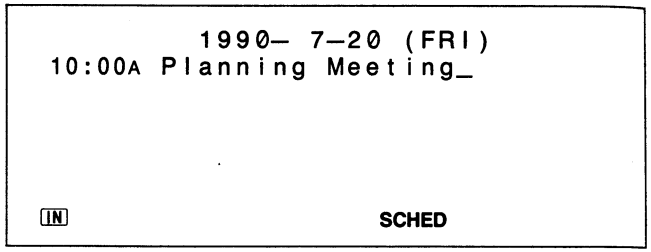
10 [TIME]



If you do not make any entry for the minutes, the SF Unit assumes "00".

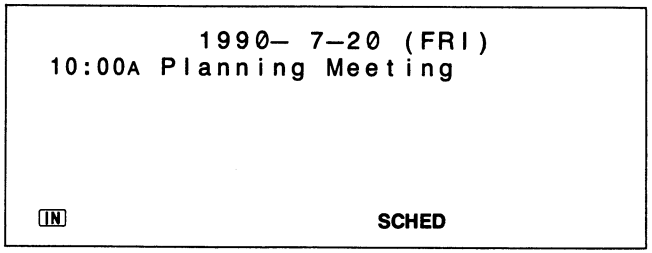
Press the [NEXT] key and the message "SCHEDULE ?" reappears to ask you for input of the details of the appointment.

[NEXT][SHIFT] **PLANNING** [SPACE][SHIFT] **MEETING**



Press the [SET] key to store this Schedule Keeper entry into memory.

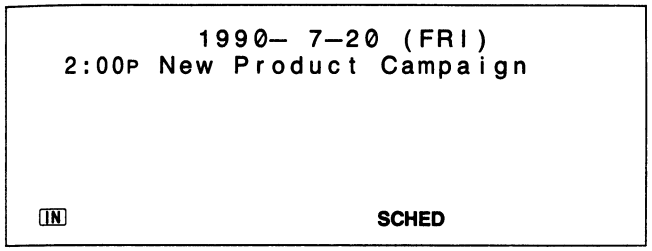
[SET]



Press the [CLEAR] key and the SF Unit requests the next schedule time.

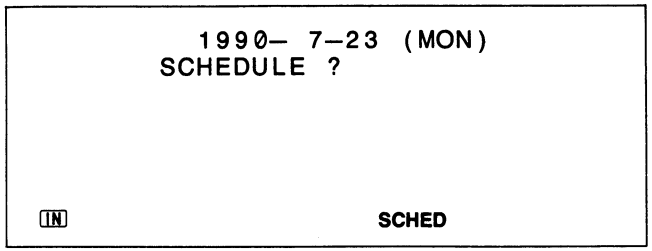
Use the same procedure described above to enter the appointment for the New Product Campaign at 2:00 PM.

2 [TIME][P] (for PM) [NEXT][SHIFT] **NEW** [SPACE][SHIFT] **PRODUCT** [SPACE][SHIFT] **CAMPAIGN** [SET]



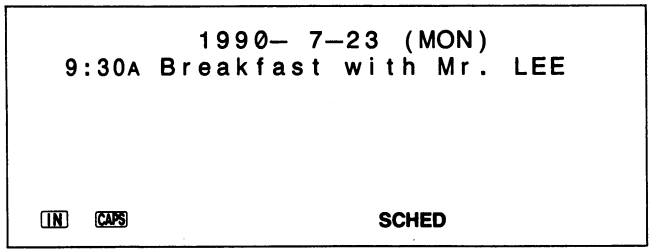
After you finish the entries for July 20, use the [▼] key to move to July 23.

[▼][▼][▼][CLEAR]



Enter the breakfast appointment for July 23. Note that after you enter the minutes you press the [NEXT] key.

9 [TIME] **30** [NEXT][SHIFT] **BREAKFAST** [SPACE] **WITH** [SPACE][SHIFT] **MR.** [SPACE][CAPS] **LEE** [SET]



Here, let us look at the calendar by pressing the [CALENDAR] key.

[CALENDAR]

```
   SU MO TU WE TH FR SA        SU MO TU WE TH FR SA
 7  1  2  3  4  5  6  7      8           1  2  3  4
    8  9 10 11 12 13 14        5  6  7  8  9 10 11
   15 16 17 18 19 20: 21      12 13 14 15 16 17 18
   22 23 24 25 26 27 28      19 20 21 22 23 24 25
   29 30 31                  26 27 28 29 30 31
                 - 1990 -
[IN]
```

Note the two dots to the right of the 20th, and the one dot to the right of the 23th. The upper dots indicate an appointment scheduled in the morning, while the lower dots indicate afternoon appointments.

You can enter a schedule item (term data item) for that covers more than one date, such as for a trip.
Enter 24 so that the 24th is flashing.

24

```
   SU MO TU WE TH FR SA        SU MO TU WE TH FR SA
 7  1  2  3  4  5  6  7      8           1  2  3  4
    8  9 10 11 12 13 14        5  6  7  8  9 10 11
   15 16 17 18 19 20: 21      12 13 14 15 16 17 18
   22 23 24 25 26 27 28      19 20 21 22 23 24 25
   29 30 31                  26 27 28 29 30 31
                 - 1990 -
[IN]
```

Press the [SCHEDULE] key.

[SCHEDULE]

```
            1990- 7-24 (TUE)
12  1  2  3  4  5  6  7  8  9 10 11
12  1  2  3  4  5  6  7  8  9 10 11
[IN] [CAPS]                  SCHED
```


Press the [FUNCTION] key twice.

[FUNCTION] [FUNCTION]

```
1 TERM DATA ITEM ENTRY

[IN] [CAPS]                  SCHED
```

Press [1] to select TERM DATA ITEM ENTRY.

[1]

```
        TERM DATA ITEM ENTRY ?
FROM:                1990- 7-24 (TUE)
TO YEAR ?            _

[IN] [CAPS]                  SCHED
```

Enter the end date of the schedule.

90 [DATE] 7 [DATE] 25 [DATE]

```
1990- 7-24(TUE) ~1990- 7-25(WED)
      SCHEDULE ?

[IN] [CAPS]                  SCHED
```

Enter the details.

N [CAPS] EW [SPACE] [SHIFT] YORK

```
1990- 7-24(TUE) ~1990- 7-25(WED)
      New York_

[IN]                        SCHED
```

Press the [SET] key. Note the ↑ symbol on the display.

[SET]

```
        1990- 7-24 (TUE)
↑       New York

[IN]                        SCHED
```

Press the [▼] key to change the date to the 25th.

[▼]

```
        1990- 7-25 (WED)
↓       New York

[IN]                        SCHED
```


Press the [CALENDAR] key. The 25th should be flashing at this time.

[CALENDAR]

```
    SU MO TU WE TH FR SA      SU MO TU WE TH FR SA
7    1  2  3  4  5  6  7   8           1  2  3  4
     8  9 10 11 12 13 14      5  6  7  8  9 10 11
    15 16 17 18 19 20: 21    12 13 14 15 16 17 18
    22 23 24: 25: 26 27 28   19 20 21 22 23 24 25
    29 30 31                 26 27 28 29 30 31
                - 1990 -
[IN]
```

Next, enter the schedule for July 26th.

Press the [▶] key so that the 26th is flashing.

[▶]

```
    SU MO TU WE TH FR SA      SU MO TU WE TH FR SA
7    1  2  3  4  5  6  7   8           1  2  3  4
     8  9 10 11 12 13 14      5  6  7  8  9 10 11
    15 16 17 18 19 20: 21    12 13 14 15 16 17 18
    22 23 24: 25: 26 27 28   19 20 21 22 23 24 25
    29 30 31                 26 27 28 29 30 31
                - 1990 -
[IN]
```

Now press the [SCHEDULE] key to enter the Schedule Keeper and display the timetable for the 26th.

[SCHEDULE]

```
        1990- 7-26 (THU)
12  1  2  3  4  5  6  7  8  9 10 11
12  1  2  3  4  5  6  7  8  9 10 11
[IN]                        SCHED
```

First enter the morning appointment.

CLEAR 10 TIME NEXT SHIFT DISCUSSION SPACE ABOUT SPACE CAPS B-PROJECT SET

```
          1990- 7-26 (THU)
10:00A Discussion about B-PROJECT
IN  CAPS                  SCHED
```

Next enter the afternoon appointment. Note the key operation used to enter the starting time and ending time.

CLEAR 1 TIME P TIME 3 TIME P NEXT

```
          1990- 7-26 (THU)
 1:00P SCHEDULE ?
  ≀
 3:00P

IN  CAPS                  SCHED
```


Now enter the details of the afternoon appointment.

D CAPS EPARTMENT SPACE SHIFT MEETING ↵
SHIFT (SHIFT ROOM SPACE 105 SHIFT) SET

```
          1990- 7-26 (THU)
 1:00P Department Meeting
  ≀      (Room 105)
 3:00P

IN                        SCHED
```

Enter the next appointment. Note that this appointment has no time entry, but this presents no problem.

CLEAR SHIFT MEET SPACE SHIFT MR. SPACE CAPS M SHIFT CDONALD ↵
CAPS AT SPACE CAPS A.B.HOTEL SET

```
          1990- 7-26 (THU)
        Meet Mr. McDONALD
        at A.B.HOTEL
10:00A Discussion about B-PROJECT
 1:00P Department Meeting
▼ ≀      (Room 105)
IN  CAPS                  SCHED
```

After you complete all of the entries, press the DATA/ALARM key again to exit data input.

- Appointments are automatically stored in according to time, regardless of the sequence that they are entered.
- Appointments scheduled for the same date are stored according to their times. Entries that do not include a time are stored before the entries that include times.
- See page 140 for details on editing and deleting appointment entries.

Recalling Schedule Keeper data

Data stored in the Schedule Keeper can be recalled using one of the following procedures:

- Date Search

Input a date to enter the Schedule Keeper for that date.

- Calendar Search

Select a date on the calendar to enter the Schedule Keeper for that date.

- Weekly Schedule Search

While the calendar display is shown, enter a date to display the weekly schedule that contains that date.

- Direct search

Enter the time or text to locate all appointments with entries that begin with the specified time or text.

- Random Search

Enter a time or details to locate all appointments containing any data that include the specified time or text.

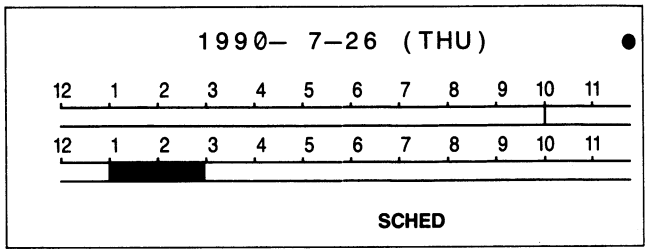
Date Search

Example: Check the schedule for July 26, 1990.

Press the [SCHEDULE] key to enter the Schedule Keeper, and then press [SHIFT] [CLEAR].

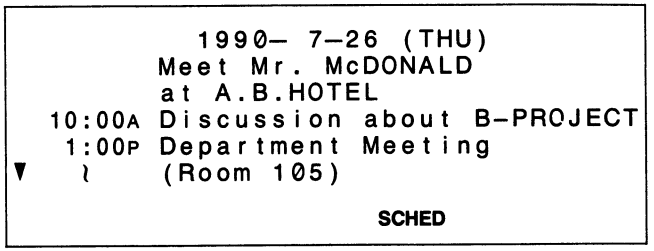
Enter the year, month, and date, pressing the [DATE] key after each entry.

[SCHEDULE] [SHIFT] [CLEAR] **90** [DATE] **7** [DATE] **26** [DATE]



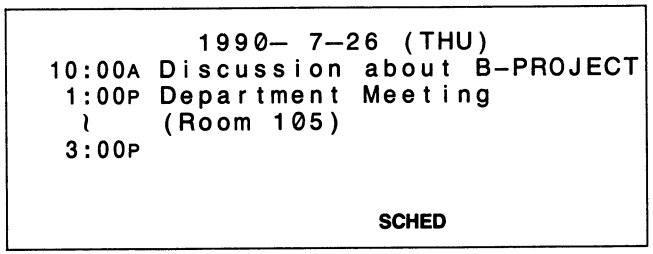
Press the [DISPLAY CHANGE] key to switch to the Data Display for the specified date.

[DISPLAY CHANGE]



Press the [▼] key to scroll down line-by-line through the Data Display ([▲] scrolls up), or [▼▼] to scroll down appointment-by-appointment ([▲▲] scrolls up).

[▼▼]



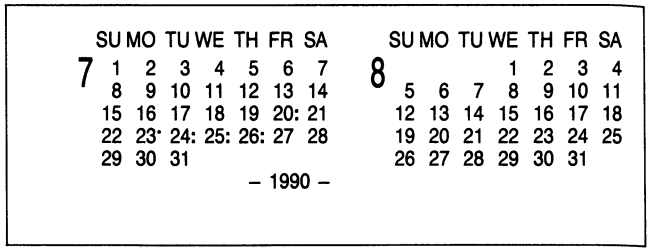
If you press [▼] after you reach the last Schedule Keeper entry for this date, the following date's schedule appears. If you press [▼▼] after reaching the last Schedule Keeper entry for this date, the SF Unit will skip all dates that do not contain any data and jump to the next date that contains schedule data. If there are no following dates that contain schedule data, [▼▼] does not change the current display.

Calendar Search

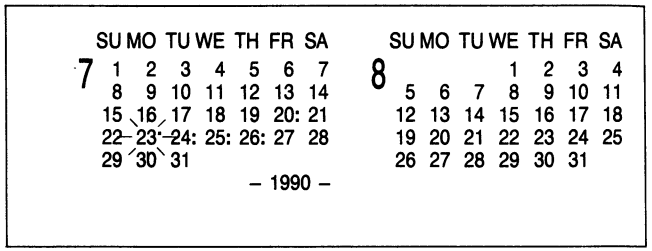
Example: Check the schedule data for July 23, 1990.

Select the date on the Calendar display.

[CALENDAR] [CLEAR] **90** [DATE] **7** [DATE] [CALENDAR]

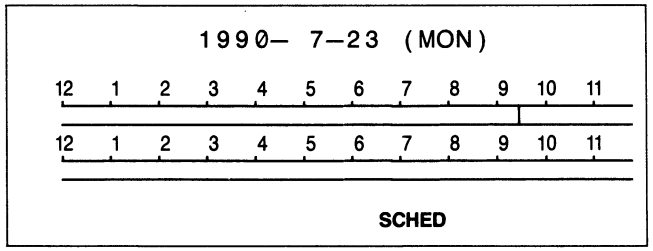


[◄] [◄] [▲] (or enter 23)



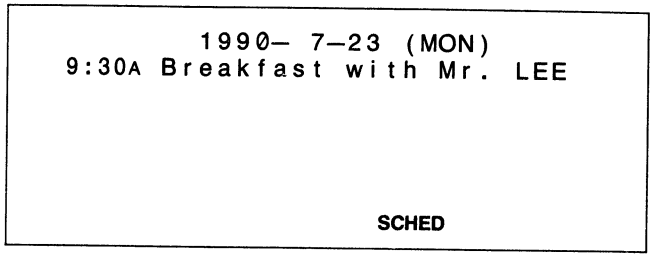
Press the [SCHEDULE] key and the Timetable Display for the selected date appears.

[SCHEDULE]



Press the [DISPLAY CHANGE] key to view the Data Display.

[DISPLAY CHANGE]



Using Weekly Schedule Search

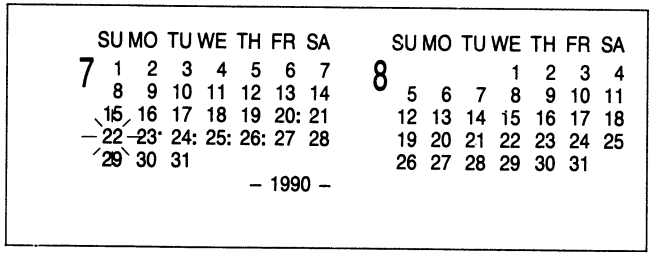
This function lets you enter a date to recall the schedule for the week that includes that date.

Example: To check the schedule for the 4th week of July 1990.

While the calendar display is shown, enter a date that is included in the 4th week of July.

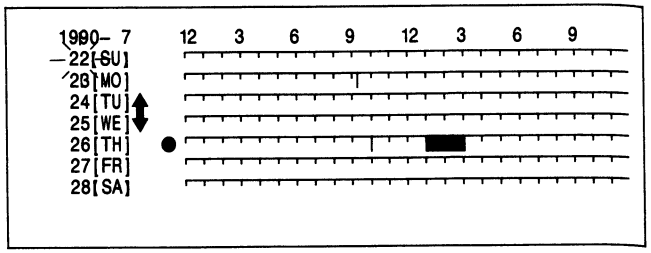
Here we will use the 22nd.

[CALENDAR] [CLEAR] **90** [DATE] **7** [DATE] **22** [CALENDAR]



Press the [DISPLAY CHANGE] key to display the weekly schedule.

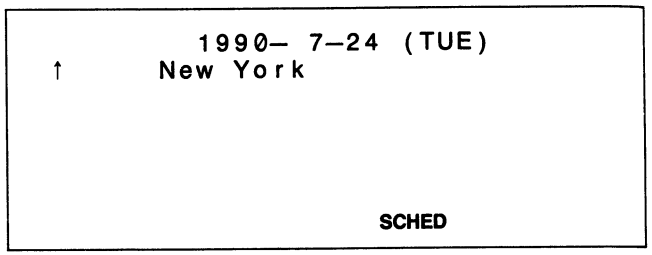
[DISPLAY CHANGE]



The ↕ symbol indicates a term data item, while the ● symbol indicates a schedule data item that does not include a time.

Next, check the details for the 24th and 25th. Move the cursor until the 24th is flashing, and press the [SCHEDULE] key.

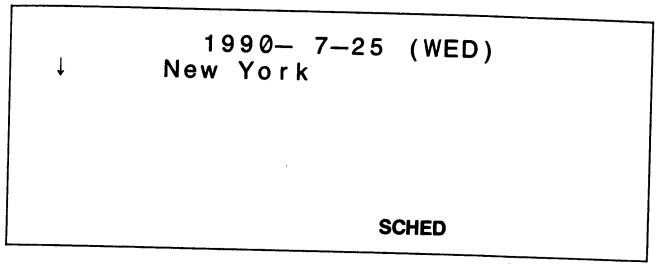
[▼][▼][SCHEDULE]



The date with ↑ symbol is the start date of the term data item.

Press the [▼] to view the next day's details.

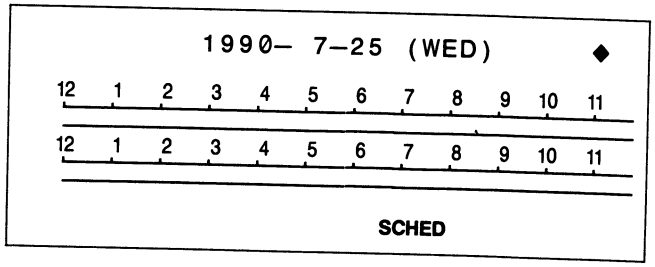
[▼]



The date with the ↓ symbol is the end date of the term data item. For term data items that are three days and longer, dates other than the start date and end date are indicated by |.

Press the [DISPLAY CHANGE] key to display the timetable display for the 25th.

[DISPLAY CHANGE]



The ◆ mark indicates that this date is part of a term data item.

Using Direct Search

With direct search, you can specify either text or a time to locate the Schedule Keeper information you want.

Direct Search trys to find the nearest data items in the future that contain the text you specify. When there are no future data items, it starts from the nearest item in the past and searches up to the current date.

To search for text

Example: Find all of the entries that begin with the words "New Product Campaign".

Press the SCHEDULE key to enter the Schedule Keeper and then press the CLEAR key.

SCHEDULE CLEAR

```
      1990- 7-18 (WED)
SEARCH FOR ?




                    SCHED
```

The date at the top of this display is the current date.

Enter the text "New Product Campaign", and press the SEARCH key. Note that you could also enter just the word "New" or "N" for the search.

SHIFT **NEW** SPACE SHIFT **PRODUCT** SPACE SHIFT **CAMPAIGN** SEARCH

```
      1990- 7-20 (FRI)
2:00P New Product Campaign




                    SCHED          SEARCH
```

The SEARCH indicator appears on the display and the first entry that matches the specified text appears on the display.

Press ▼ or ▲ key to view other data items that match the specification (displayed in chronological order). If the display is not changed by the operation, there are no more entries that match.

You can press the SEARCH key when you find the entry you want to exit the search function.

To search for times

Example: Find all appointments for 9:30 AM.

Press the SCHEDULE key to enter the Schedule Keeper and then press the CLEAR key.

Enter the time, and press the SEARCH key.

SCHEDULE CLEAR **9** TIME **30** SEARCH

```
      1990- 7-23 (MON)
9:30A Breakfast with Mr. LEE




                    SCHED          SEARCH
```

Using Random Search

With random search, you can specify either text or a time to locate the Schedule Keeper information you want. Then the SF Unit will display all items that include the specified text anywhere in their entries, or whose schedule times include the time you specify.

Random Search trys to find the nearest data items in the future that contain the text you specify. When there are no future data items, it starts from the nearest item in the past and searches up to the current data.

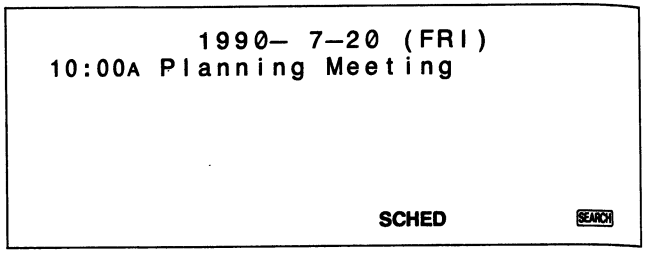
To search for text

Example: Find all of the entries that contain the word "Meeting".

Press the SCHEDULE key to enter the Schedule Keeper and then press the CLEAR key.

Enter the text "Meeting", and press SHIFT followed by the SEARCH key.

SCHEDULE CLEAR SHIFT **MEETING** SHIFT SEARCH



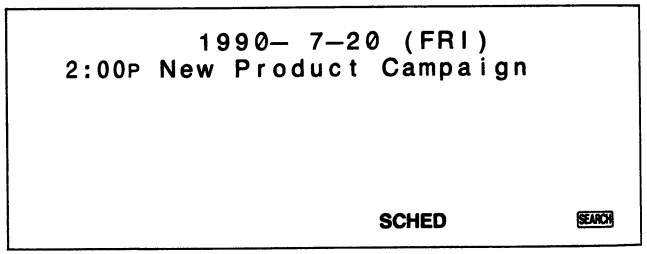
To search for times

Example: Find all appointments schedule for 2:00 PM.

Press the SCHEDULE key to enter the Schedule Keeper and then press the CLEAR key.

Enter the time, and press SHIFT followed by the SEARCH key.

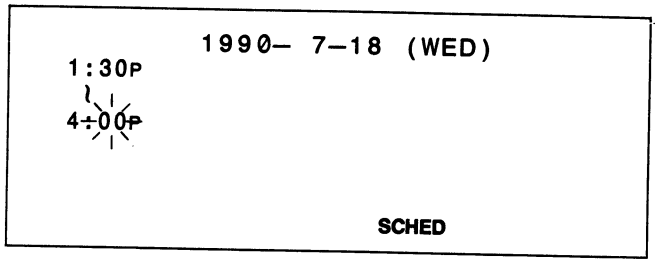
SCHEDULE CLEAR **2** TIME P SHIFT SEARCH



Example: Find all appointments scheduled between 1:30 PM and 4:00 PM.

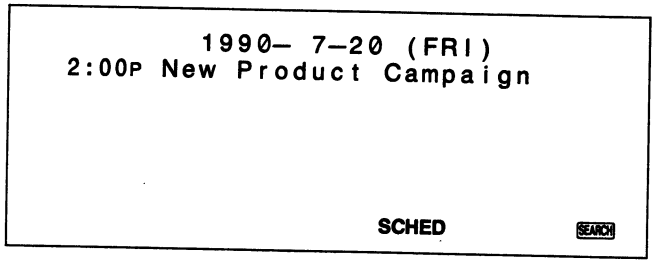
While in the Schedule Keeper, press the CLEAR key and enter the time you wish to find.

CLEAR **1** TIME P **30** TIME **4** TIME P



Press SHIFT followed by the SEARCH key.

SHIFT SEARCH



Notes

The following shows how time search is performed by Random Search.

In memory:
10:00 AM
10:00 AM ~ 11:00 AM
10:30 AM
10:30 AM ~ 12:00 PM
11:00 AM

Random search specification: 10:30 AM
Items found:
10:00 AM ~ 11:00 AM
10:30 AM
10:30 AM ~ 12:00 PM

Random search specification: 10:00 AM ~ 11:00 AM
Items found:
10:00 AM
10:00 AM ~ 11:00 AM
10:30 AM
10:30 AM ~ 12:00 PM

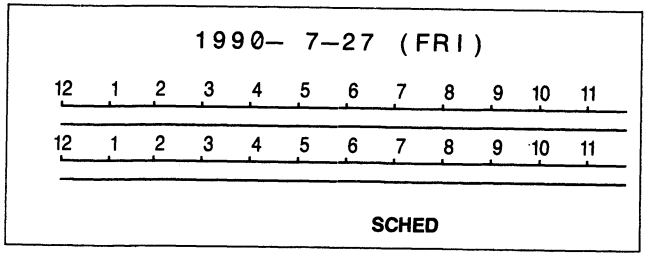
Using the Schedule Alarm Function

The Schedule Alarm function lets you set alarms to signal scheduled appointment times. The procedure for setting schedule alarms will be explained here using actual examples.

To store schedule alarm data

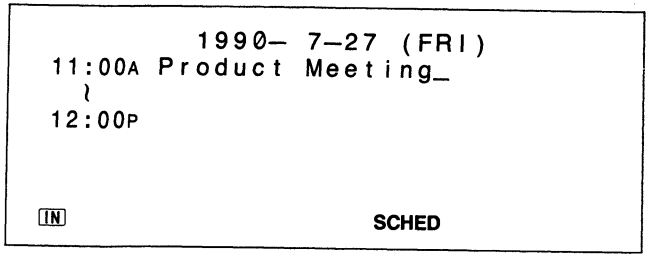
Example: Set a schedule alarm for a product meeting scheduled from 11:00 AM to 12:00 PM on July 27, 1990.

[SCHEDULE] [SHIFT] [CLEAR] **90** [DATE] **7** [DATE] **27** [DATE]



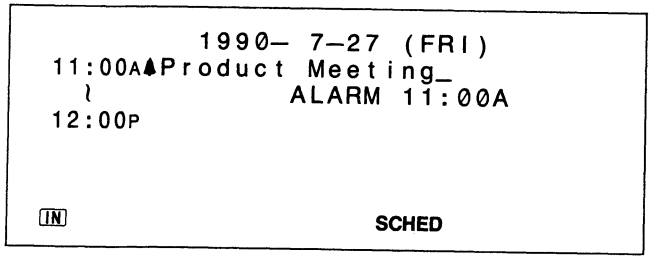
Enter the details of the appointment. Be sure to press the [DATA IN/OUT] key.

[DATA IN/OUT] [CLEAR] **11** [TIME] [TIME] **12** [TIME] [P] [NEXT] [SHIFT] **PRODUCT** [SPACE] [SHIFT] **MEETING**



To set the schedule alarm, press the [SCHEDULE ALARM] key. The current alarm time will appear on the display.

[SCHEDULE ALARM]



If you press the [SET] key here, the alarm time will be set at 11:00 AM. Instead, we will change the alarm time to 10:50 AM.

[NEXT] 10 [TIME] 50

```
          1990- 7-27 (FRI)
11:00A▲Product Meeting
  ≀              ALARM 10:50A
12:00P

[IN]                    SCHED
```

Press the [SET] key to store the schedule alarm time in memory.

[SET]

```
          1990- 7-27 (FRI)
11:00A▲Product Meeting
  ≀
12:00P

[IN]                    SCHED
```

Press the [DATA IN/OUT] key to exit input and ensure that the [IN] indicator disappears from the display.

- The bell "▲" symbol after the schedule time indicates that a schedule alarm is preset for that item.
- You cannot set a schedule alarm for a time that is already passed. If you try to, the following message appears.
  SCHEDULE ALARM TIME ALREADY PASSED ! CANNOT SET THAT SCHEDULE ALARM TIME !
- The alarm mark and alarm time display are automatically cleared when a schedule alarm time is reached.
- Schedule alarms can be preset only for data items that contain a time. If you clear data from a data item that is preset with a schedule alarm, the schedule alarm is automatically cleared, and the schedule alarm indicator disappears from the display.

- If a schedule alarm time is reached while you are entering or editing the data item for which the schedule alarm is preset, the alarm does not sound until you complete work on the data item.
- You cannot preset a schedule alarm for a time already preset with another schedule alarm. If you attempt to do so, the message "THAT TIME ALREADY SET FOR SCHEDULE ALARM !" appears on the display when you press the [SET] key.
  Should this message appears press [◀] or [▶] to recall and edit the time you input.
- Note that a schedule alarm does not sound if its preset time is reached during data communications (see page 211).
- The alarm may fail to sound if battery power is too low.
- The following message appears when you are outside of the secret area and a schedule alarm set in the secret area is reached.
  SECRET DATA ITEM !

When a schedule alarm time is reached

When a time that is preset with a schedule alarm is reached, an audible alarm sounds for 20 seconds and the corresponding schedule data appears.
Press any key to stop the alarm sound. Then press the [ESC] key to return to the display you were at before the alarm began to sound.

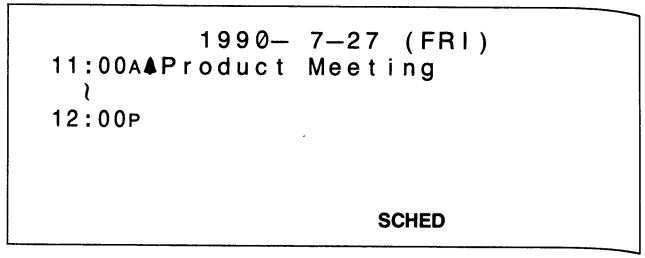
- When a schedule alarm time is reached, the SF Unit automatically switches ON while the power is OFF.

Checking schedule alarm times

To check the schedule alarm time preset for an entry, display the entry and press the [SCHEDULE ALARM] key.

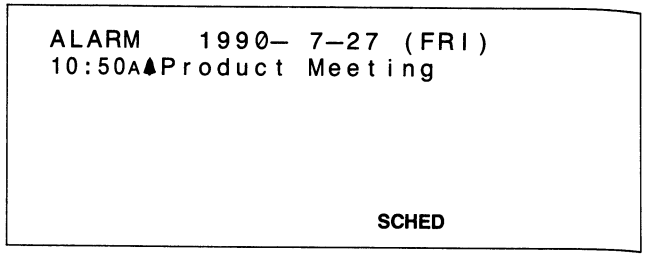
Example: View the schedule alarm time preset for the product meeting on July 27, 1990.

Display the product meeting entry for July 27, 1990.



Press the SCHEDULE ALARM key.

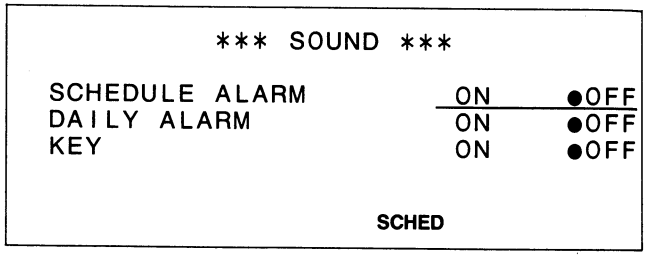
SCHEDULE ALARM



To switch schedule alarms ON and OFF

While in the Schedule Keeper, press the FUNCTION key and then press 6 to select "SOUND".

FUNCTION 6



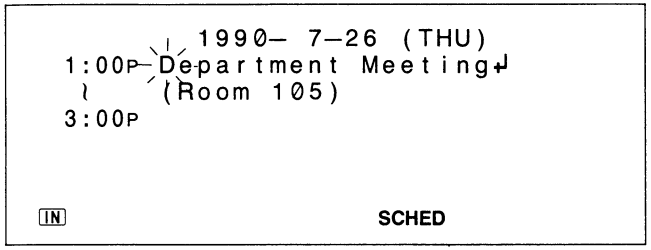
Press the ◄ key to switch the schedule alarm ON and the ► key to switch it OFF.
After press the SET key to register the setting.

To set a schedule alarm for a previously stored data item

Example: Set the schedule alarm for the Department meeting from 1:00 PM to 3:00 PM on July 26, 1990 stored in the Schedule Keeper.

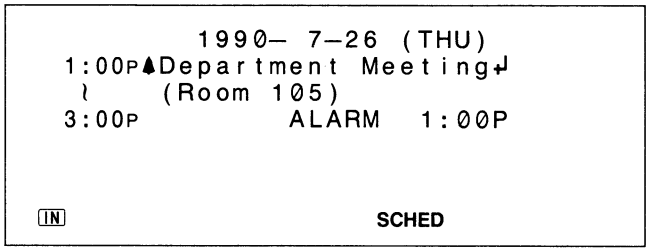
First, enter the Schedule Keeper and locate the data item.
Press the DATA IN/OUT key and make sure that the IN indicator is shown on the display. Press the FUNCTION followed by 1 key to select "DATA ITEM EDIT".

SCHEDULE SHIFT CLEAR **90** DATE **7** DATE **26** DATE DISPLAY CHANGE ▼ ▼ DATA IN/OUT FUNCTION **1**



Press the SCHEDULE ALARM key to switch the schedule alarm ON.

SCHEDULE ALARM



- See "**To store schedule alarm data**" for details on setting the alarm time.
- Use the SCHEDULE ALARM key to switch the schedule alarm ON and OFF.

Press the SET key to store the data item in memory.

Using the Timekeeping Function

About Home Time and World Time

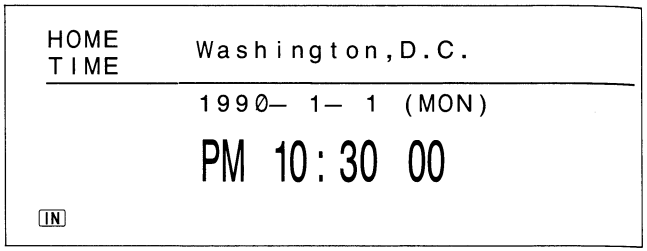
Your SF Unit comes with its own precision timepiece built in. A World Time function shows you the current time in New York, London, Paris, Tokyo, etc. You can specify one of these times as your Home Time, which is used for Schedule Alarms and Daily Alarm.

To specify the Home Time

Example: Specify New York, as the Home Time.

Press the [HOME TIME] key and then the [DATA IN/OUT] key.

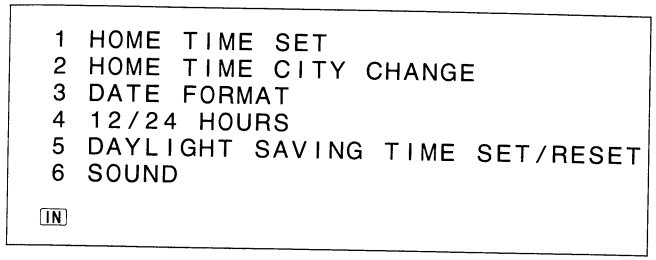
[HOME TIME] [DATA IN/OUT]



The initial setting for the Home Time is Washington, D.C.

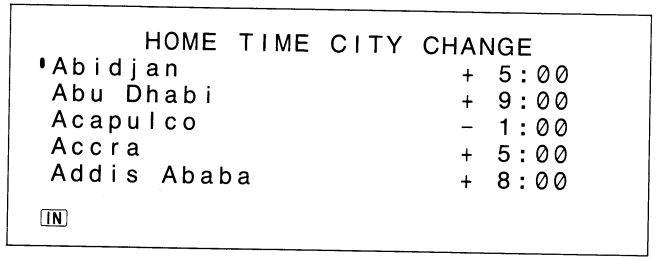
Press the [FUNCTION] key.

[FUNCTION]



Press [2] to select HOME TIME CITY CHANGE.

[2]



City names that can be set as the Home Time appear in alphabetical order on the top of the display. The time on the right shows the difference from the home time currently specified.
Press the [▼] or [▲] key to scroll through the city names, or [▼]/[▲] to scroll a full page at a time.

You can also scroll directly to a specific section of the city list. Simply enter a letter and the block of names that begins with that letter immediately appears on the display. Here, let us enter "N".

N

```
      HOME TIME CITY CHANGE
*Nadi                    +17:00
 Nairobi                  + 8:00
 Nashville                - 1:00
 Nassau                   ± 0:00
 New Orleans              - 1:00

[IN]
```

[▼]

```
      HOME TIME CITY CHANGE
*New York                ± 0:00
 Niamey                   + 6:00
 Norfolk                  ± 0:00
 Norfolk Island           +16:30
 Noumea                   +16:00

[IN]
```

In the above display, "New York" is currently selected, so press the [SET] key to make New York time the Home City time.

[SET]

```
HOME
TIME        New York
            1990- 1- 1 (MON)
            PM 10:31 42

[IN]
```


Setting the current time

To set the current time, simply change the time shown in the Home Time display.

To set the current time

Press [HOME TIME] followed by [DATA IN/OUT].

[HOME TIME] [DATA IN/OUT]

```
HOME
TIME        New York
            1990- 1- 1 (MON)
            AM 1:38 14

[IN]
```

Press the [FUNCTION] key, and the following menu appears.

[FUNCTION]

```
1 HOME TIME SET
2 HOME TIME CITY CHANGE
3 DATE FORMAT
4 12/24 HOURS
5 DAYLIGHT SAVING TIME SET/RESET
6 SOUND

[IN]
```

Press [1] to select "HOME TIME SET".

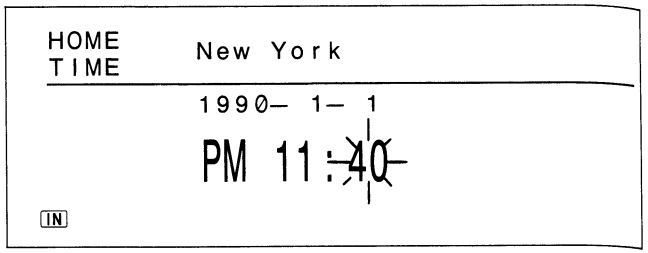
[1]

```
HOME
TIME        New York
            1990- 1- 1 (MON)
            AM 1:40

[IN]
```

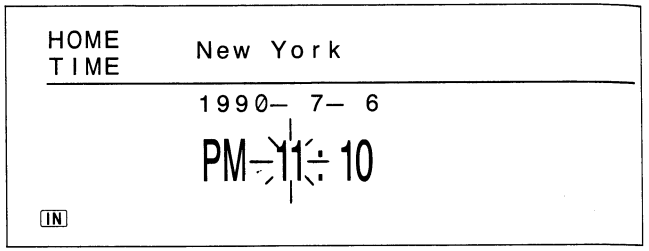
In this example, let us assume that New York time is the Home Time, and that we wish to change it to 11:10 PM, July 6, 1990.
Press [P] followed by [TIME] to switch from AM to PM. You can switch between AM ([A]) and PM ([P]) while the hours digits or minutes digits of the time are flashing.
Next, enter 11, followed by [TIME].

[P] **11** [TIME]



Now the minutes digits are flashing. Make the following entries.

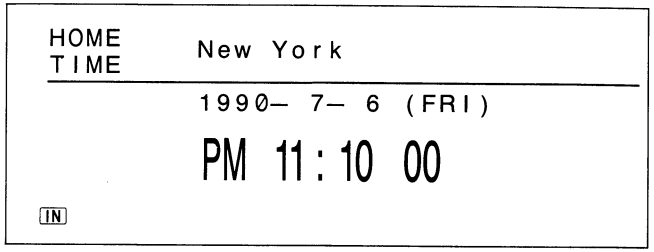
10 [TIME] **90** [DATE] **07** [DATE] **06** [DATE]



You can also leave any setting the way it is without making any changes by pressing the [TIME] key while the digits for the setting are flashing.

If you press the [DATE] key while the date digit is flashing, the hour digit of the time will start to flash again. After you finish setting the time and date, press [SET].

[SET]



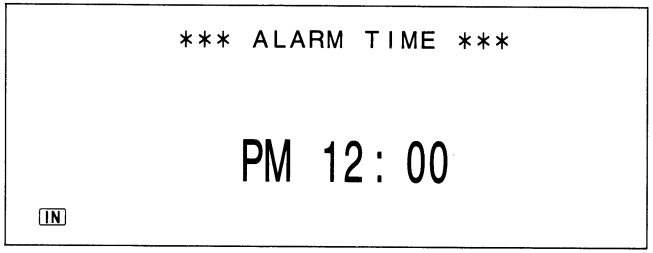
Setting the daily alarm

Once you set the time for the daily alarm, the alarm will sound every day at that time.

To set the daily alarm

While the Home Time display is shown (by pressing [HOME TIME]), press the [HOME TIME] key. Then press [DATA IN/OUT] for data input.

[HOME TIME] ([HOME TIME]) [DATA IN/OUT]



Press the [FUNCTION] key, and the following menu appears.

[FUNCTION]

```
1 ALARM TIME SET


6 SOUND
IN
```

Press [1] to select "ALARM TIME SET".

[1]

```
*** ALARM TIME ***

PM 12: 00
IN
```

In this example, let us assume that we wish to set a daily alarm time of 8:30 AM.
Press [A] to specify AM (press [P] for PM), and then enter the hours followed by [TIME], and the minutes.

[A] 8 [TIME] 30

```
*** ALARM TIME ***

AM 8:30
IN
```


Press the [SET] key to complete the operation.

[SET]

```
*** ALARM TIME ***

AM 8: 30          ON
IN
```

Press the [HOME TIME] key to return to the Home Time display.

To switch the daily alarm ON and OFF

Press the [FUNCTION] key, and then press [6] to select "SOUND".
Press the [▼] key to select DAILY ALARM, and then press [◄] to switch the alarm ON, or [►] to switch it OFF.

[FUNCTION] [6] [▼]

```
*** SOUND ***

SCHEDULE ALARM    ●ON     OFF
DAILY ALARM        ON    ●OFF
KEY               ●ON     OFF
```

Press the [SET] key to complete the setting.

To switch between 12-hour and 24-hour format

Press the [HOME TIME] key.

[HOME TIME]

```
HOME
TIME        New York
          1990- 7- 6 (FRI)
          PM 11:12 35
```

Press the [FUNCTION] key, and the following menu appears.

[FUNCTION]

```
3 DATE FORMAT
4 12/24 HOURS
5 DAYLIGHT SAVING TIME SET/RESET
6 SOUND
```

Press [4] to select "12/24 HOURS".

[4]

```
HOME
TIME        New York
          1990- 7- 6 (FRI)
          23:12 38
```


Note that the time has been changed from 12-hour to 24-hour format. The 12-hour/24-hour specification affects all time displays, including those in the Schedule Mode, World Time, and alarms.

Specifying the date format

A choice of three different date formats is available for the Home Time, World Time and Schedule Keeper displays.

Format	Example
YEAR-MONTH-DATE	1990-1-1 (MON)
MONTH-DATE-YEAR	JAN-1-1990 (MON)
DATE-MONTH-YEAR	1-JAN-1990 (MON)

To specity the date format

Press the [HOME TIME] key.

[HOME TIME]

```
HOME
TIME        New York
          1990- 7- 6 (FRI)
          23:25 57
```

Press the [FUNCTION] key.

[FUNCTION]

```
3 DATE FORMAT
4 12/24 HOURS
5 DAYLIGHT SAVING TIME SET/RESET
6 SOUND
```

Press [3] to select DATE FORMAT.

[3]

```
1 YEAR–MONTH–DATE
2 MONTH–DATE–YEAR
3 DATE–MONTH–YEAR
```

Press the key ([1], [2], [3]) that corresponds to the format you want to use. Here, MONTH-DATE-YEAR is selected by pressing [2].

[2]

```
HOME
TIME        New York
          JUL– 6–1990 (FRI)
          23:40 52
```

Note

No matter what date format you select, the calendar and schedules use the YEAR-MONTH-DATE format when specifying dates.

To recall a World Time display

Example: Recall the World Time display for Paris.

Press the [WORLD TIME] key.

[WORLD TIME]

```
WORLD
TIME        London
          JUL– 7–1990 (SAT)
          4:53 31
```

Press the [FUNCTION] key.

[FUNCTION]

```
2 WORLD TIME CITY CHANGE

5 DAYLIGHT SAVING TIME SET/RESET
6 SOUND
```

Press [2] to select WORLD TIME CITY CHANGE.

[2]

```
      WORLD TIME CITY CHANGE
'Abidjan                + 5:00
 Abu Dhabi              + 9:00
 Acapulco               - 1:00
 Accra                  + 5:00
 Addis Ababa            + 8:00
```

Press [P] and specify Paris.

[P][▼][▼][▼]

```
      WORLD TIME CITY CHANGE
'Paris                  + 6:00
 Peking (Beijing)      +13:00
 Perth                 +13:00
 Philadelphia           ± 0:00
 Phnom Penh            +12:00
```

Press the [SET] key to view the World Time Display for Paris.

[SET]

```
WORLD
TIME      Paris
          JUL- 7-1990 (SAT)
          6:13 30
```

The initial setting for the World Time is New York.

Using the daylight saving time function

This function lets you specify daylight saving time for cities that use such a timekeeping system.

To switch daylight saving time ON and OFF

Press the [HOME TIME] key or the [WORLD TIME] key.

[WORLD TIME]

```
WORLD
TIME      London
          JUL- 7-1990 (SAT)
          6:39 46
```

Press the [FUNCTION] key, and the following menu appears.

[FUNCTION]

```
2 WORLD TIME CITY CHANGE

5 DAYLIGHT SAVING TIME SET/RESET
6 SOUND
```

Press [5] to select "DAYLIGHT SAVING TIME SET/RESET".

[5]

```
WORLD
TIME      London
          JUL- 7-1990 (SAT)
          7:39 52          DST
```

Note that the time has been changed from standard time to daylight saving time, indicated by "DST" on the display. Repeat the above operation to switch from daylight saving time to standard time.

Editing Data Items Stored in Memory

After data items are stored in memory, you can edit, delete, and move them as desired. In this section, we will use actual examples to describe the editing procedures.

To change an existing data item

Change Mary Bush's telephone number from 234-228-9199 to 234-228-8243 (see page 36).

Enter the Telephone Directory and search for the data item under Bush Mary. Be sure to press the DATA IN/OUT key.

TEL DATA IN/OUT CAPS **BUSH** SEARCH

```
BUSH MARY                    234-228-9199




IN  CAPS  TEL                          SEARCH
```

Switch to the Data Display.

DISPLAY CHANGE

```
BUSH MARY                    234-228-9199
11933 Digital Street,
Los Angeles, CA



IN  CAPS  TEL                          SEARCH
```


Press the FUNCTION key and the following menu will appear.

FUNCTION

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA

6 SOUND

IN  CAPS  TEL                          SEARCH
```

Press 1 to select "DATA ITEM EDIT". At this time the cursor will appear on the Data Display.

1

```
BUSH MARY◢
234-228-9199◢
11933 Digital Street,↵
Los Angeles, CA



IN  CAPS  TEL
```

Press the ▼ key to move the cursor to the position of the data you wish to change.

▼

```
BUSH MARY◢
234-228-9199◢
11933 Digital Street,↵
Los Angeles, CA



IN  CAPS  TEL
```

Enter the new data.

▶▶▶▶▶▶▶▶ 8243

```
BUSH MARY
234-228-8243
11933 Digital Street,
Los Angeles, CA

IN  CAPS      TEL
```

Press the SET key to store the newly edited data item in memory.

SET

```
BUSH MARY                    234-228-8243
11933 Digital Street,
Los Angeles, CA

IN  CAPS      TEL
```

- When you locate a data item using Direct Search or Random Search, the SEARCH indicator disappears from the display when you enter 1 while in the menu.
- When you change the name entry in the Business Card Library, all of the entries are resorted in alphabetical sequence when you press the SET key.

To change the date of a Schedule Keeper data item

Change the date for the Planning Meeting from 10:00 AM on July 20, 1990 to 2:00 PM on July 27, 1990.

Enter the Schedule Keeper and search for July 20, 1990. Be sure to press the DATA IN/OUT key.

SCHEDULE DATA IN/OUT SHIFT CLEAR 90 DATE 7 DATE 20 DATE DISPLAY CHANGE

```
          1990- 7-20 (FRI)
10:00A Planning Meeting
 2:00P New Product Campaign

IN                    SCHED
```

Press the FUNCTION key and the following menu will appear.

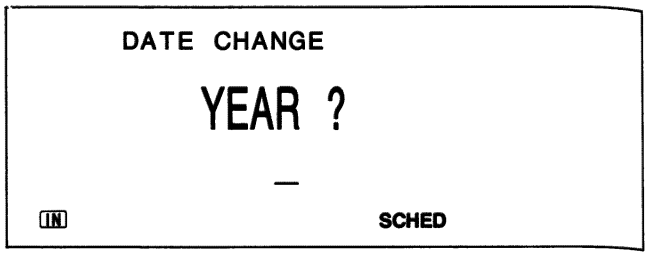
FUNCTION

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA
5 DATE CHANGE
6 SOUND

IN                    SCHED
```

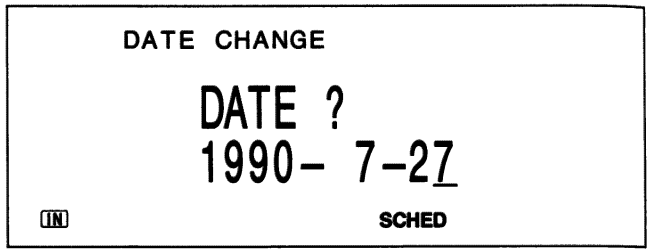
Press [5] to select "DATE CHANGE".

[5]



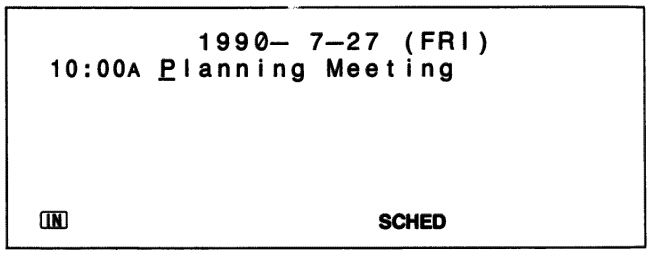
Enter the year, month, and date, following each entry by pressing the [DATE] key. You can cancel the edit procedure by pressing the [ESC] key during date input.

90 [DATE] 7 [DATE] 27



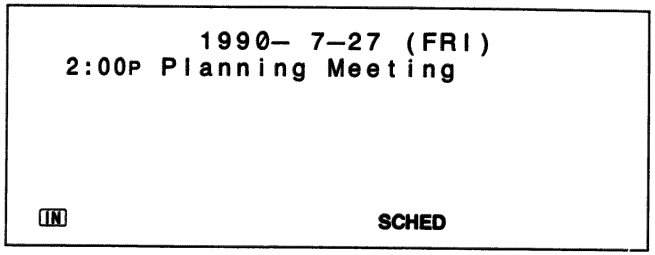
When you press the [DATE] key after entering the date, the first letter of the details of the appointment starts to flash.

[DATE]



Press the [TIME] key and enter the new time, and then press the [SET] key to store the newly edited data item in memory.

[TIME] 2 [P] [SET]



To batch edit multiple data items

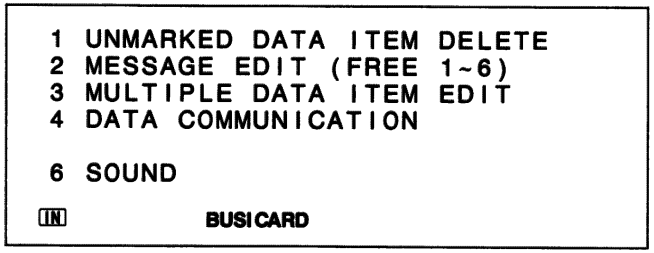
In the Business Card Library, it is sometimes desirable to change all entries of some data to another entry.

Example: Change the telephone numbers of all of the QD MOTORS items from 631-343-6666 to 631-343-6111.

Enter the Business Card Library and press the [DATA IN/OUT] key.

Press the [FUNCTION] key and the following menu will appear.

[BUSINESS CARD] [DATA IN/OUT] [FUNCTION]



Press [3] to select "MULTIPLE DATA ITEM EDIT". At this time the following menu will appear.

[3]

```
1 EMPLOYER
2 TEL NUMBER
3 ADDRESS
4 TELEX NUMBER
5 FAX NUMBER

IN          BUSI CARD
```

Press a key to select an entry. Here we will press [2] to select "TEL NUMBER".

[2]

```
(AMS) 020-5733911

IN          BUSI CARD
```

Press the [▼] and [▲] keys to scroll through the telephone numbers until you find the one that you wish to change.

[▼][▼][▼][▼][▼][▼][▼]

```
631-343-6666

IN          BUSI CARD
```


Make the necessary changes.

[SHIFT][▶][◀][◀][◀][◀] 6111

```
631-343-6111

IN          BUSI CARD
```

Press the [SET] key to store the newly edited data items in memory.

- If you press the [CLEAR] key while editing multiple data items, the SF Unit will cancel multiple data item edit and the message "EMPLOYER ?" will appear on the display.
- When you change the name entry in the Business Card Library, all of the entries are resorted in alphabetical sequence when you press the [SET] key.

Editing entry names

The names of the user-definable (FREE) entries in the Telephone Directory and Business Card Library can be changed to identify the type of data stored. FREE entry names can be up to 16 characters long.
You can specify whether or not the FREE entry name should be displayed with the FREE entry data.

Example: Change FREE 2 in the Telephone Directory to "BIRTHDAY".

Enter the Telephone Directory and press the [DATA IN/OUT] key.

Press the [FUNCTION] key and the following menu will appear.

[TEL] [DATA IN/OUT] [FUNCTION]

```
1 UNMARKED DATA ITEM DELETE
2 MESSAGE EDIT (FREE 1~6)

4 DATA COMMUNICATION

6 SOUND

IN          TEL
```

Press [2] to select "MESSAGE EDIT (FREE 1~6)". At this time the display will change to a list of current user-definable entry names.

[2]

```
FREE 1
FREE 2
FREE 3
FREE 4
FREE 5
FREE 6

IN          TEL
```

Press the [▼] key to move the cursor to the position of the data name you wish to change.
Enter the new data name.

[▼] [CAPS] **BIRTHDAY**

```
FREE 1
BIRTHDAY_
FREE 3
FREE 4
FREE 5
FREE 6

IN  CAPS    TEL
```


Press the [MARK] key to display the FREE entry data with its name.

[MARK]

```
 FREE 1
•BIRTHDAY_
 FREE 3
 FREE 4
 FREE 5
 FREE 6

IN  CAPS    TEL
```

Press the [SET] key to store the new data item name in memory.

Now, the prompt "BIRTHDAY ?" will appear in place of "FREE 2 ?". Also, the entry name "BIRTHDAY" is displayed when the data is recalled.

Deleting data items

You can delete individual data items, or you can batch delete all but the marked data items.

To delete individual data items

Example: Delete the Business Card Library data item under Jane Stewart.

Enter the Business Card Library and search for the data item under Jane Stewart. Be sure to press the [DATA IN/OUT] key.

BUSINESS CARD DATA IN/OUT CAPS **STEWART** SEARCH

```
STEWART JANE              631-343-6111




IN  CAPS        BUSICARD              SEARCH
```

Switch to the Data Display.

DISPLAY CHANGE

```
QD MOTORS
STEWART JANE              631-343-6111
Chief Engineer
Engineering and Development
1234567
▼ QD Building, 10250 QD Road,
IN  CAPS        BUSICARD              SEARCH
```

Press the FUNCTION key and the following menu will appear.

FUNCTION

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA

6 SOUND
IN  CAPS        BUSICARD              SEARCH
```

Press 2 to select "INDIVIDUAL DATA ITEM DELETE", and the following message appears to confirm whether you wish to delete the data item.

2

```
DELETE INDIVIDUAL DATA ITEM ?

YES SET /NO ESC
IN  CAPS        BUSICARD
```

Press SET to delete the data item and display the next data item or ESC to return to the Data Display.

SET

```
QD MOTORS
WILLIAMS ROBERT           631-343-6111
Vice-President
Latin America Region
1234567
▼ QD Building, 10250 QD Road,
IN  CAPS        BUSICARD
```

Data items can be deleted using the above procedure regardless of whether or not they are marked (see page 158).

To delete unmarked data items

Example: Delete all unmarked data items in the Memo Mode (see page 158 for details on marked data items).

Enter the Memo Mode and press the DATA IN/OUT key.
Press the FUNCTION key and the following menu will appear.

MEMO DATA IN/OUT FUNCTION

```
1 UNMARKED DATA ITEM DELETE

4 DATA COMMUNICATION

6 SOUND

IN                    MEMO
```

Press 1 to select "UNMARKED DATA ITEM DELETE" and the following message appears to confirm whether you wish to delete the data items.

1

```
DELETE ALL UNMARKED DATA ITEMS ?

YES SET /NO ESC

IN                    MEMO
```

Press SET to delete all unmarked data items or ESC to return to the MEMO display.

- In the above example, only the unmarked data items in the Memo Mode, open (non-secret) area are deleted. Unmarked data items in the secret area are not deleted.
- To delete unmarked data items in the secret area, you must first access the secret area and perform the above procedure. Doing so does not delete any unmarked data items in the open area.

To delete unmarked Schedule Keeper data items

Example: Delete all unmarked data items in the Schedule Keeper (see page 91), from January 1, 1901 until February 5, 1990.

Enter the Schedule Keeper and press the DATA IN/OUT key.
Press the FUNCTION key and the following menu will appear.

SCHEDULE DATA IN/OUT FUNCTION

```
1 UNMARKED DATA ITEM DELETE

4 DATA COMMUNICATION

6 SOUND

IN                    SCHED
```

Press 1 to select "UNMARKED DATA ITEM DELETE" and the following display appears to prompt for input of the period.

1

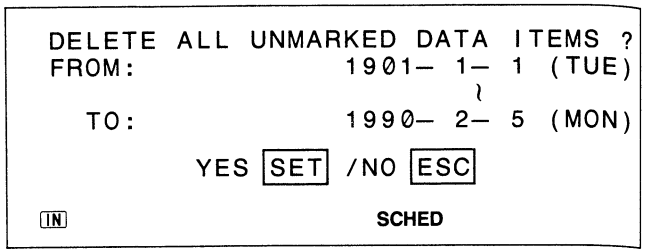
```
DELETE ALL UNMARKED DATA ITEMS ?
FROM:              1901— 1— 1 (TUE)

TO YEAR ?              _

IN                    SCHED
```

Specify the date up to which you wish to delete unmarked data items. Enter the year, month, and date, pressing the [DATE] key after each entry.

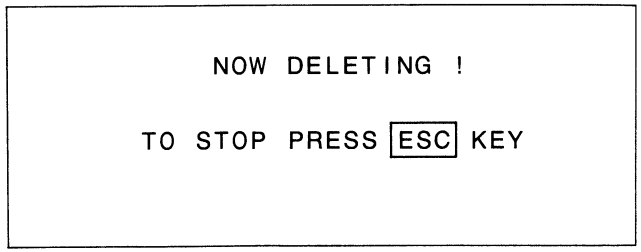
90 [DATE] 2 [DATE] 5 [DATE]



Press [SET] to delete all unmarked data items or [ESC] to cancel the delete procedure.

In the above example, only the unmarked data items for the specified period in the Schedule Keeper, open (non-secret) area are deleted. Unmarked data items in the secret area are not deleted.

Depending upon the amount of data present in memory when you delete all unmarked data items, the delete procedure may take a few minutes to complete. During the procedure, the display appears as shown below. To interrupt the delete procedure, you can press the [ESC] key, but data items deleted up to that point will no longer be stored in memory.



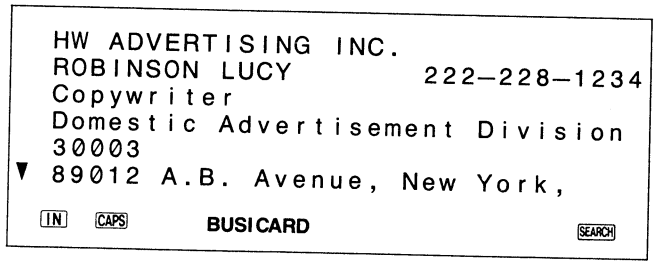
Duplicating data items

The procedure described in this section comes in handy when you have to enter a data item that is almost identical to another item that is already stored in the Telephone Directory, Business Card Library, Memo, or Schedule Keeper. Simply duplicate the stored item and then make changes as required to create the new item.

Example: Duplicate the data item stored under Lucy Robinson in the Business Card Library and change the new data item to Paul Bean, Art Director.

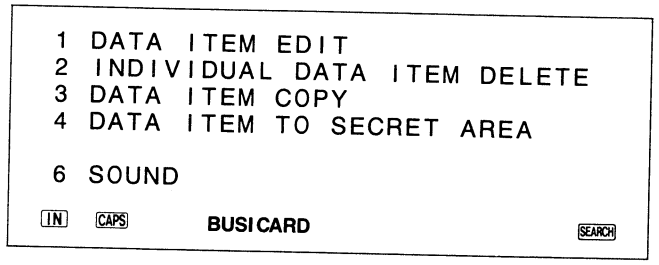
First, locate the data item stored under Lucy Robinson. Be sure to press the [DATA IN/OUT] key.

[BUSINESS CARD] [DATA IN/OUT] [CAPS] ROBINSON [SEARCH] [DISPLAY CHANGE]



Press the [FUNCTION] key and the following menu appears.

[FUNCTION]



Enter [3] to select "DATA ITEM COPY". The newly created data item appears on the display with the cursor flashing, standing by for changes. Make any necessary changes.

[3] [▼] BEAN [SPACE] PAUL [DEL] [DEL] [DEL] [DEL] [NEXT]

```
HW ADVERTISING INC.◢
BEAN PAUL◢
222-228-1234◢
Copywriter◢
Domestic Advertisement Division◢
30003◢

[IN]  [CAPS]        BUSICARD
```

[▼] A [CAPS] RT [SPACE] [SHIFT] DIRECTOR [SET]

```
HW ADVERTISING INC.
BEAN PAUL                222-228-1234
Art Director
Domestic Advertisement Division
30003
▼ 89012 A.B. Avenue, New York,

[IN]          BUSICARD
```

Don't forget to press the [SET] key to store the new data item. Nothing is stored in memory unless you press [SET].

Other Functions

Using the Mark Function

The Mark function lets you mark data item to protect it against being deleted by the delete procedure (see page 149).

To assign marks to data items

Example: Enter the following data item and mark it.
Bob Lloyd, 631-343-8221

While in the Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [DATA IN/OUT] key.
Perform the following sequence to enter the data.

[TEL] [DATA IN/OUT] [CLEAR] [CAPS] **LLOYD** [SPACE] **BOB** [NEXT] **631-343-8221**

```
LLOYD BOB◢
631—343—8221_


IN  CAPS    TEL
```


Press [MARK] to mark the data item. Note the "•" indicator which shows that the data item is marked.

[MARK]

```
•LLOYD BOB◢
 631—343—8221_


IN  CAPS    TEL
```

Press the [SET] key to store the data.

[SET]

```
•LLOYD BOB                  631—343—8221


IN  CAPS    TEL
```

A data item can be marked at any point from when the [CLEAR] key is pressed until the [SET] key is pressed.

To mark an existing data item

Mark the Memo data item under DRIVER'S LICENSE.

Enter the Memo Mode and search for the data item under DRIVER'S LICENSE. Be sure to press the [DATA IN/OUT] key.

[MEMO] [▼] [▼] [▼] [DATA RECALL]

```
DRIVER'S LICENSE
Valid until Oct. 29, 1993
Number A-123456
CREDIT CARD NUMBERS
Casio Credit 12345
Digital Credit 98765
IN                    MEMO
```

Press the [FUNCTION] key and the following menu will appear.

[FUNCTION]

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA

6 SOUND
IN                    MEMO
```

Press [1] to select "DATA ITEM EDIT". At this time the cursor will appear on the Data Display.

[1]

```
DRIVER'S LICENSE↵
Valid until Oct. 29, 1993↵
Number A-123456


IN                    MEMO
```


Press [SHIFT] and then press the [SET] key to store the newly edited data item in memory.

[MARK] [SET]

```
•DRIVER'S LICENSE
 Valid until Oct. 29, 1993
 Number A-123456
 CREDIT CARD NUMBERS
 Casio Credit 12345
 Digital Credit 98765
IN                    MEMO
```

To unmark a data item

Recall the marked data item.
Press the [DATA RECALL] key.
Press the [FUNCTION] key, and the following menu appears.

[FUNCTION]

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA

6 SOUND
IN                    TEL
```

Press [1] to select "DATA ITEM EDIT".
Press [MARK] to clear the mark.
Press the [SET] key.

Using the Secret Function

The Secret Function lets you store Telephone Directory, Business Card Library, Memo data and Schedule Keeper data in a memory area that is protected by a secret password. Only individuals able to enter the password can view the information stored in the secret memory area.

> You can register only one password. Be sure not to forget it. If you do, you will have to reset, thus erasing all of the data you have stored in memory.

To register a password

Example: Register "CASIO" as the password.

While in the Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [DATA IN/OUT] key.
Then press the [🔑] key.

[TEL] [DATA IN/OUT] [🔑]

```
          *** SECRET ***
PASSWORD ?


[IN]        TEL
```


Enter "CASIO".

[CAPS] **CASIO**

```
          *** SECRET ***
CASIO_


[IN] [CAPS]  TEL
```

Press the [🔑] key again. The indicator " 🔑 " appears on the display to indicate that "CASIO" is registered as the password, and the SF Unit enters the secret memory area.

[🔑]

```
          *** SECRET ***

      PASSWORD REGISTERED !


[IN] [CAPS]  TEL
```

▼

```
   *** TELEPHONE  DIRECTORY ***

   DATA ITEMS                  0
   MARKED                      0


[IN] [CAPS]  TEL                🔑
```

The [↵] key is inoperative when you are entering a password.

Now you can press one of the mode keys ([TEL], [PHONE CARD], [MEMO], [SCHEDULE]) to store data into the secret memory area. Use the same procedures as those used to store data in the open (non-secret) area.

To exit the secret area

Simply press the [▬] key to exit the secret area. The data item count that appears on the display does not include items stored in the secret area.

[▬]

```
*** TELEPHONE  DIRECTORY ***

DATA ITEMS                10
MARKED                     1


[IN] [CAPS]  TEL
```

Entering the secret area

You must enter the password anytime you wish to access any data items stored in the secret area.

To enter the secret area

Press the [▬] key, and a message appears to prompt entry of the password.

[▬]

```
          *** SECRET ***
PASSWORD ?




                MEMO
```


Enter the password, and a message appears to confirm that it is correct.

[CAPS] CASIO [▬]

```
          *** SECRET ***

           PASSWORD OK !


[CAPS]           MEMO
```

Next, the SF Unit enters the secret area, indicated by the " ▬ " at the bottom of the display.

```
          *** MEMO ***

DATA ITEMS                    0
MARKED                        0


[CAPS]           MEMO         ▬
```

- If you enter a wrong password, the message "PASSWORD MISMATCH !" appears on the display.
- If no password is registered, the message "PASSWORD NOT REGISTERED !" appears on the display.

To change the password

Example: Change the password from "CASIO" to "OISAC".

While in the Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [→] key, and a message appears to prompt entry of the password.

[TEL] [DATA IN/OUT] [→]

```
          *** SECRET ***
PASSWORD ?


[IN]        TEL
```

Enter the password, and the message "PASSWORD OK !" appears to confirm that it is correct, and then the SF Unit enters the secret area, indicated by the " → " at the bottom of the display.

[CAPS] **CASIO** [→]

```
   *** TELEPHONE  DIRECTORY ***

   DATA ITEMS                  0
   MARKED                      0


[IN] [CAPS]  TEL                →
```


Press [CLEAR] followed by the [→] key to display the currently registered password.

[CLEAR] [→]

```
          *** SECRET ***
CASIO


[IN] [CAPS]  TEL                →
```

Press the [FUNCTION] key and the following menu will appear.

[FUNCTION]

```
1 DATA ITEM EDIT


6 SOUND
[IN] [CAPS]  TEL                →
```

Press [1] to select "DATA ITEM EDIT". At this time the currently registered password will reappear, with the cursor blinking at the first letter.

[1]

```
          *** SECRET ***
CASIO


[IN] [CAPS]  TEL                →
```

Enter the new password.

OISAC

```
                *** SECRET ***
OISAC_


[IN] [CAPS]  TEL                    [↵]
```

Press the [↵] key to register the new password.

[↵]

```
                *** SECRET ***

          PASSWORD REGISTERED !


[IN] [CAPS]  TEL                    [↵]
```

```
    *** TELEPHONE  DIRECTORY ***

    DATA ITEMS                        0
    MARKED                            0


[IN] [CAPS]  TEL                    [↵]
```


Transferring data between the secret and open areas

The SF Unit makes the transfer of data items between the open area and the secret area quick and easy.

To transfer a data item from the open area to the secret area

Example: Transfer the data item stored under Diana Smith from the open area to the secret area.

Enter the Telephone Directory and search for the data item under SMITH DIANA. Be sure to press the [DATA IN/OUT] key.

[TEL] [DATA IN/OUT] [CAPS] **SMITH** [SEARCH]

```
SMITH DIANA                  567–645–3233


[IN] [CAPS]  TEL                  [SEARCH]
```

Switch to the Data Display.

[DISPLAY CHANGE]

```
SMITH DIANA                  567–645–3233
6322 S.F. Avenue, Chicago, IL


[IN] [CAPS]  TEL                  [SEARCH]
```

Press the [FUNCTION] key and the following menu will appear.

[FUNCTION]

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO SECRET AREA

6 SOUND
[IN] [CAPS]  TEL                    [SEARCH]
```

Press [4] to select "DATA ITEM TO SECRET AREA". At this time a message will appear to prompt input of the currently registered password.

[4]

```
*** TRANSFER TO SECRET AREA ***
PASSWORD ?


[IN] [CAPS]  TEL
```

Enter the password and press the [🔑] key and the following message appears to confirm whether you wish to transfer the data item.

OISAC[🔑]

```
*** TRANSFER TO SECRET AREA ***
          TRANSFER ?

        YES [SET] /NO [ESC]
[IN] [CAPS]  TEL
```


Press [SET] to transfer the data item or [ESC] to cancel the data transfer procedure.

[SET]

```
SMITH DIANA              567–645–3233
6322 S.F. Avenue, Chicago, IL


[IN] [CAPS]  TEL                    🔑
```

The SF Unit enters the secret area, indicated by the " 🔑 " indicator.

If a password is not already registered in the above procedure, the password entered in response to the "PASSWORD ?" prompt is registered as a new password.

To transfer a data item from the secret area to the open area

Example: Transfer the data item stored under Diana Smith from the secret area to the open area.

Enter the Telephone Directory.
Enter the secret area and search for the data item under SMITH DIANA. Be sure to press the [DATA IN/OUT] key.

[TEL][🔑][CAPS] **OISAC** [🔑][DATA IN/OUT] **SMITH** [SEARCH]

```
SMITH DIANA              567–645–3233


[IN] [CAPS]  TEL                    🔑  [SEARCH]
```

Switch to the Data Display.

[DISPLAY CHANGE]

```
SMITH DIANA              567-645-3233
6322 S.F. Avenue, Chicago, IL

[IN] [CAPS] TEL
```

Press the [FUNCTION] key and the following menu will appear.

[FUNCTION]

```
1 DATA ITEM EDIT
2 INDIVIDUAL DATA ITEM DELETE
3 DATA ITEM COPY
4 DATA ITEM TO OPEN AREA

6 SOUND

[IN] [CAPS] TEL
```

Press [4] to select "DATA ITEM TO OPEN AREA".
The following message appears to confirm whether you wish to transfer the data item.

[4]

```
*** TRANSFER TO OPEN AREA ***

TRANSFER ?

YES [SET] /NO [ESC]

[IN] [CAPS] TEL
```


Press [SET] to transfer the data item or [ESC] to cancel the data transfer procedure.

[SET]

```
SMITH DIANA              567-645-3233
6322 S.F. Avenue, Chicago, IL

[IN] [CAPS] TEL
```

The SF Unit enters the open area and the " " indicator disappears from the display.

Using the Letter Memory Function

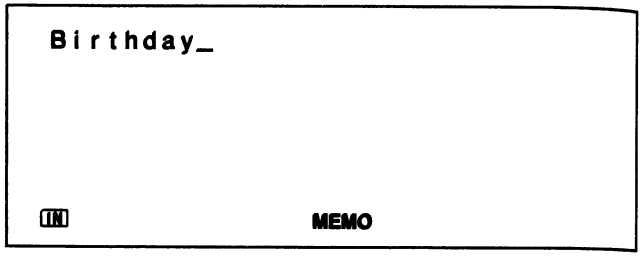
The Letter Memory function lets you store up to 10 often-used words or phrases up to 384 characters long for instant recall when you need them.

To store Letter Memory data

Example: Assign the word "Birthday" to Letter Memory 1.

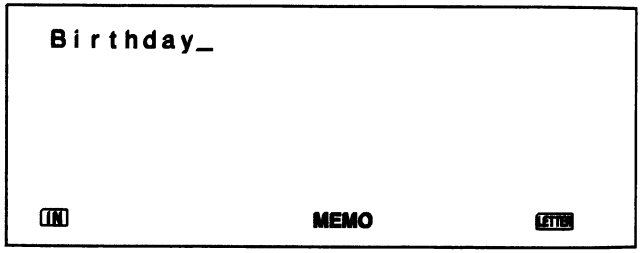
While in the Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [DATA] key.
Next, enter the text to be assigned to a Letter Memory.

[MEMO] [DATA] [CLEAR] [SHIFT] **BIRTHDAY**



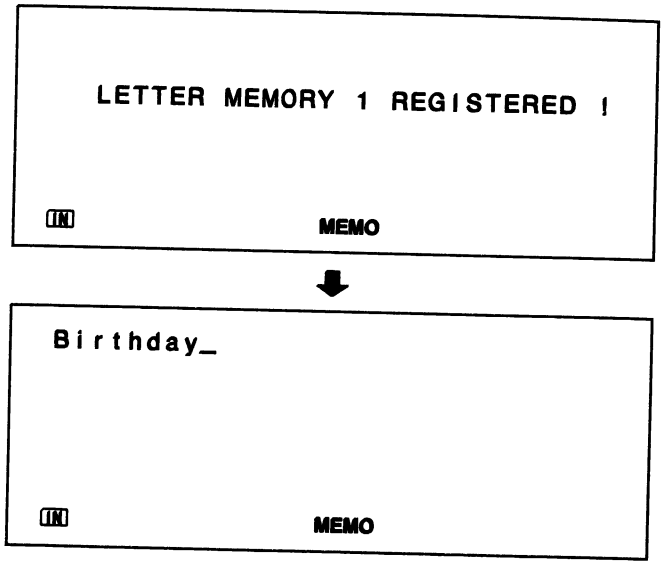
Press the [LETTER] key, and the [LETTER] indicator appears on the display.

[LETTER]



Press [SHIFT] followed by [1] to store the text in Letter Memory 1. A message appears to indicate that the text is registered, and then the text input display returns.

[SHIFT] [1]



- In place of the above, you can press the [LETTER] key to exit the Letter Memory Function.
- If you press any key besides [SHIFT] and keys [0] through [9] while the [LETTER] indicator is shown on the display, the SF Unit exits the Letter Memory Function.
- Date and time data in the Schedule Keeper cannot be stored in a Letter Memory.
- You can only store text in a Letter Memory while the [IN] indicator is shown on the display.
- In the Telephone Directory and Business Card Library, you cannot store text following the Combine mark ([C]) in a Letter Memory.
- If you store data to a Letter Memory that already contains data, the previous data is replaced with the new data.
- To delete data stored in a Letter Memory, simply store a cleared screen (cleared by the [CLEAR] key) to the Letter Memory.

To recall Letter Memory data

Example: Susan's Birthday

While in the Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [DATA IN/OUT] key.
At the point where you wish to enter the text assigned to the Letter Memory, press [LETTER MEMORY] followed by [1].

[DATA IN/OUT] [SHIFT] **SUSAN'S** [SPACE]

```
        1990- 8- 3 (FRI)
Susan's _

[IN]                SCHED
```

[LETTER MEMORY] [1] [SET]

```
        1990- 8- 3 (FRI)
Susan's Birthday

[IN]                SCHED
```

You can press the [LETTER MEMORY] key to exit the Letter Memory Function without entering any Letter Memory number.

Using the Auto Display Function

The Auto Display function lets you automatically scroll through the displays quickly and easily. To stop the Auto Display, press the [AUTODISP] or [ESC] key.

Example: Use the Auto Display function to view Business Card Library data.

[BUSINESS CARD] [▽] [DISPLAY CHANGE]

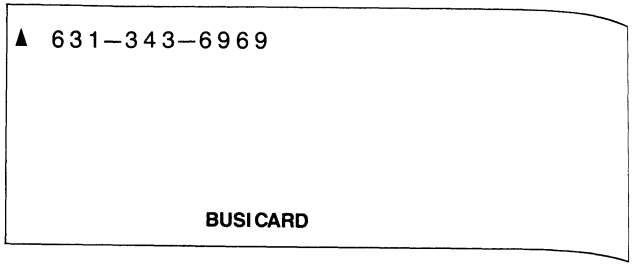
```
  CBA ELECTRONICS CO., LTD.
  MAYER RICK    (LONDON)01-4509131
  Sales Manager
  A.V. Products
  Unit 6, 1000 North Circular
▼ Road, London NW2 7JD

              BUSICARD
```

[SHIFT] [AUTODISP]

```
▲ MAYER RICK    (LONDON)01-4509131
  Sales Manager
  A.V. Products
  Unit 6, 1000 North Circular
  Road, London NW2 7JD
▼ 883446

              BUSICARD
```

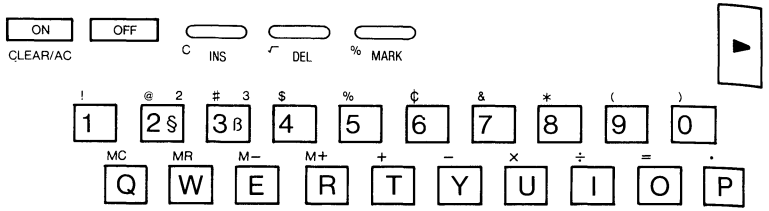


- In the above example, you can scroll the Employer Name Display if you omit operation of the [DISPLAY CHANGE] key.
- Pressing any mode key, the [CLEAR] key or [OFF] key during Auto Display causes the SF Unit to exit the function.

Using the Calculator Functions

Performing General Calculations

Calculation keys



- Numeric keys and decimal key ([0]~[9], [.])
- Arithmetic operator keys ([+], [−], [×], [÷], [=])
  Press these keys as they appear in the arithmetic operation, and press the [=] key to obtain the result.
- Root key ([√])
  Use this key to obtain the square root of a value.
- Independent memory keys ([M+], [M−], [MR], [MC])
  [M+] — Adds the displayed value to the independent memory.
  [M−] — Subtracts the displayed value from the independent memory.
  [MR] — Recalls the value stored in the independent memory to the display.
  [MC] — Clears the independent memory.
- Cut off key ([▶])
  Cuts off the least significant (far right) digit of the displayed value.

Important

- Before beginning calculations, confirm that "0." is shown on the display, indicating that the SF Unit is in the CAL mode.
- Be sure to monitor operation on the display as you perform key operations.

Making corrections in calculations

- If you press the wrong numeric key, press the [C] key and press the correct numeric key.
- If you press the wrong arithmetic operator key, simply press the correct key. This is true for all operator keys except the [=] key.

About errors

- An error is generated and the indicator "E" appears on the display if a calculation cannot be performed because it is out of range, etc.

Causes of errors

1. The number of digits in the mantissa of an intermediate or a final result exceeds 12 digits.
2. When the mantissa of a value in memory exceeds 12 digits. The SF Unit automatically uses the last value that did not exceed 12 digits.
3. Division by 0.

- To clear an error, press the [C] key and proceed with the calculation, or press the [AC] key and start from the beginning.

Calculation examples

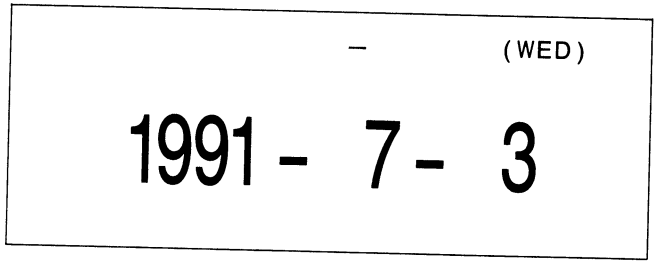
	AC		0.
53+123−63=	53 + 123 − 63 =		113.
963×(23−56)=	23 − 56 × 963 =		−31'779.
(56×3−89)÷5.2+63=	56 × 3 − 89 ÷		
	5.2 + 63 =		78.1923076923
123456×741852=	123456 × 741852 =		91'586'080'512.
$\sqrt{3}\times 5=$	3 √ × 5 =		8.6602540378
12+23=	23 + + 12 =	K+	35.
45+23=	45 =	K+	68.
78+23=	78 =	K+	101.
7−5.6=	5.6 − − 7 =	K−	1.4
2−5.6=	2 =	K−	−3.6
2.3×12=	12 × × 2.3 =	K×	27.6
4.5×12=	4.5 =	K×	54.
45÷9.6=	9.6 ÷ ÷ 45 =	K÷	4.6875
78÷9.6=	78 =	K÷	8.125
12% of 1500	1500 × 12 %		180.
Percentage of 660 against 880	660 ÷ 880 %		75.
15% add-on of 2500	2500 × 15 % +		2'875.
25% discount of 3500	3500 × 25 % −		2'625.
What will the selling price and profit be when the purchasing price of an item is $480 and the profit rate to the selling price is 25%?	480 + 25 % −		640. 160.
If you made $80 last week and $100 this week, what is the percent increase?	100 − 80 %		25.
80×9= 720 −) 50×6= 300 20×3= 60 480	MC 80 × 9 M+ 50 × 6 M− 20 × 3 M+ MR	M M M M	720. 300. 60. 480.

Performing Date Calculations

Date calculations can be performed in the range of January 1, 1901, through December 31, 2099.
Calculations that exceed this range result in an error ("E" displayed).

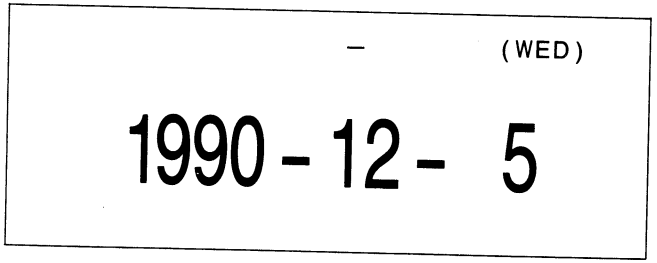
Example: Determine how many days there are from December 5, 1990 to July 3, 1991.

CAL 1991 DATE 7 DATE 3 −

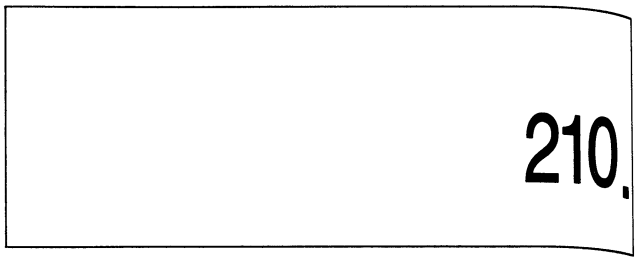


For 20th century years, you only need to enter the final two digits.

90 DATE 12 DATE 5 DATE



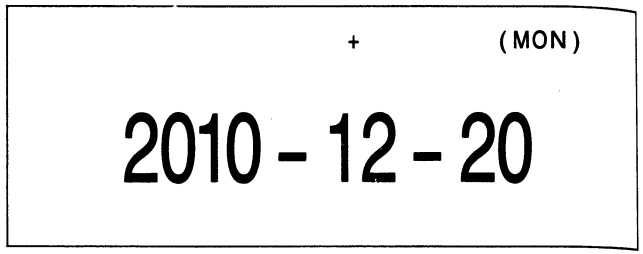
[=]



The result is 210 days.

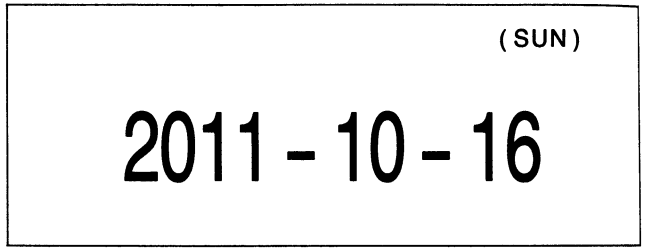
Example: Determine the date that is 300 days from December 20, 2010.

[AC] 2010 [DATE] 12 [DATE] 20 [+]



For 21st century years, you must enter all four digits.

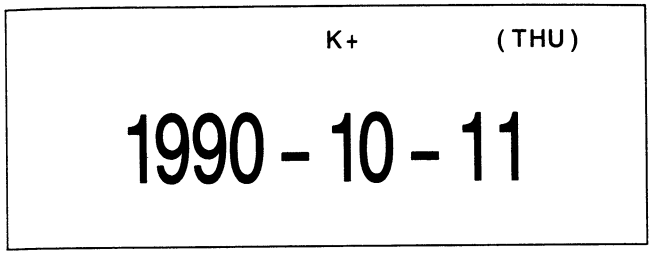
300 [=]



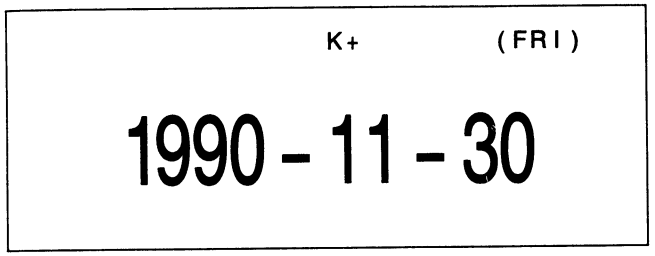
The result is October 16, 2011.

Example: Determine the dates 50, 100, and 150 days from October 11, 1990 (using a constant).

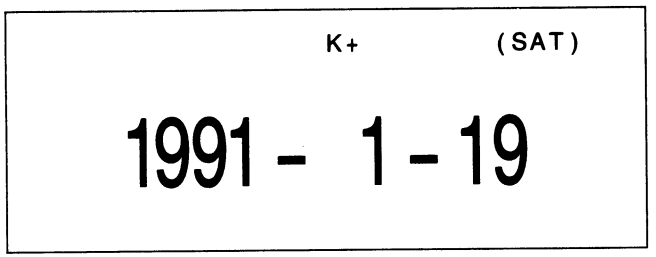
90 [DATE] 10 [DATE] 11 [+] [+]



50[=]



100[=]



150 =

K+ (SUN)

1991 - 3 - 10

Example: Determine the dates 15, 30, and 45 days before February 5, 1990 (using the memory).

AC MC 90 DATE 2 DATE 5 M+

M (MON)

1990 - 2 - 5

− 15 =

M (SUN)

1990 - 1 - 21

MR − 30 =

M (SAT)

1990 - 1 - 6

MR − 45 =

M (FRI)

1989 - 12 - 22

IC Cards

Using IC Cards

The SF Unit's IC Card System lets you use IC cards to plug in application software or for external storage of data.

Precautions when using an IC card

- Never use any IC card not sold by Casio Computer Co., Ltd.
- Do not bend or drop the IC card. Doing so can cause malfunction. Do not carry the IC card in your trouser pocket.
- When not in use, store the card in its case.
- When installing/removing the IC card to/from the SF Unit, first make sure that the power of the SF Unit is switched OFF.
- Always make sure that the IC card is oriented correctly when you are loading it into the SF Unit. If you insert the wrong end of the card into the SF Unit, you can alter the memory contents of the card or the SF Unit memory, making it impossible to recover the data.
- The IC card is manufactured of precision electronic components. Never try to take it apart, and do not insert pins or paper clips into the connector section.
- The manufacturer assumes no responsibility for damage or loss suffered due to loss of data during misoperation or battery replacement.

Replacing the IC card battery

IC cards which can store data feature a built-in memory protection battery (installed at the factory), with enough power to last for about one year (ES-100). Should an IC card battery go dead while the card is not loaded in an SF Unit, the data stored in the card can be damaged or lost, so the battery should be replaced regularly.

If the IC card is loaded into the SF Unit when you replace the IC card battery, the data on the IC card will not be lost.

Important

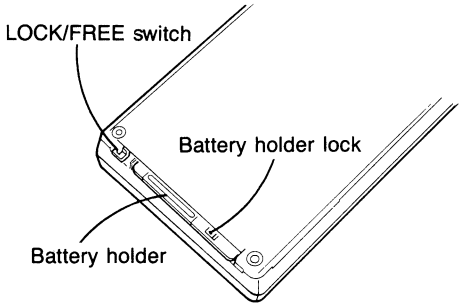
- The 1-year life of the battery installed at the factory begins from the date it is installed. Since the card spends some time in shipment and on the shelf at your dealer, you should replace the original battery sooner than the normal 1-year period.
- The following cause IC card memory contents to be lost.
  1) If you use the wrong procedure to replace the battery.
  2) If you load a battery into the card with the (+) side facing down.
  3) If you replace the battery while the IC card is not loaded in the SF Unit.

Before replacing the IC card battery, be sure to first check the display of the SF Unit. If the message: "MAIN POWER SUPPLY BATTERIES GETTING WEAK ! REPLACE !" is shown, the main power supply batteries do not have enough power to retain the IC card memory contents during replacement of the IC card battery. Replace the main batteries (see page 8) before replacing the IC card battery.

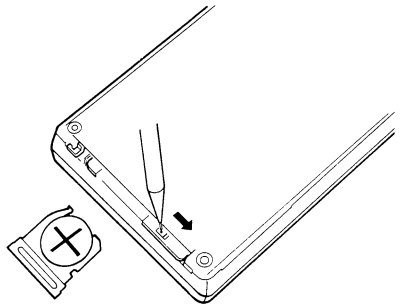
To replace the IC card battery

In the following procedure, it is assumed that the IC card whose battery is being replaced is loaded in the SF Unit.

1. Remove the three screws that hold the back cover of the SF Unit in place, and remove the back cover.
2. Check to make sure that the IC card is set securely into the SF Unit and that the LOCK/FREE switch is in the LOCK position. Do not change the position of the LOCK/FREE switch during the following procedure.



3. Use a thin, pointed object to press down on the battery holder lock and slide it in the direction indicated by the arrow in the illustration below.
   While doing this, slide the IC card battery holder from the card.



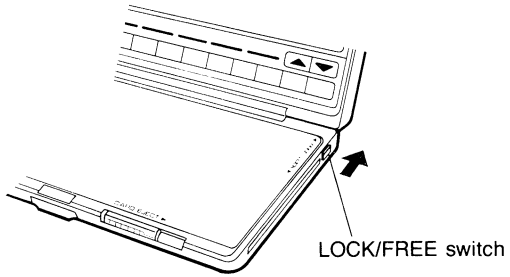
4. Remove the old battery. Wipe off the surfaces of a new battery with a soft cloth and place it on the battery holder so that its (+) side is facing up.
5. Insert the battery holder back into the card, making sure that it is positioned correctly.
6. Replace the back cover of the SF Unit and fasten it in place using the three screws.

Installing and removing an IC card

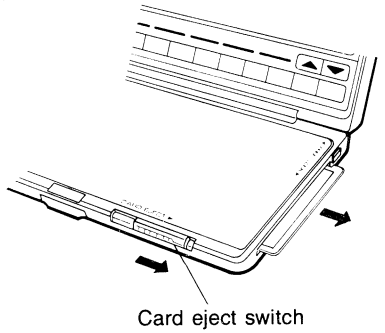
Note that the SF Unit is shipped with a dummy card loaded in the IC card slot to protect internal components.

To replace an IC card

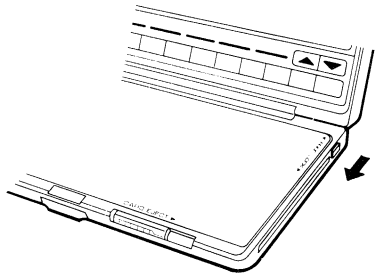
1. Press the [OFF] key of the SF Unit to switch power OFF.
2. Slide the LOCK/FREE switch to the FREE position.



3. Slide the card eject switch in the direction noted by the arrow in the illustration.



4. Pull out the card currently installed in the SF Unit.
5. Carefully install the card you want to use.
6. Slide the LOCK/FREE switch to the LOCK position.
   Now if you press the [ON] key of the SF Unit, the unit will enter the Card Mode.



- If you use the above procedure to load the dummy card, switching SF Unit power ON will cause the SF Unit to enter the last mode which was being used prior to the card replacement procedure.
- If you press the [CARD] key while the dummy card is loaded or when there is no card loaded, the message: "PLEASE INSERT A CARD !" appears on the display for about one second.

Important

If you are using the SF Unit without an IC card, be sure that the dummy card is installed. The dummy card protects against problems caused by dust, dirt, and static electricity. It also protects against damage to the SF Unit caused by pressing down too strongly on the keyboard keys.

Using RAM Card

An optional ES-100 RAM card can be used for storage of Telephone Directory, Business Card Library, and Memo data. You can build a collection of RAM cards for virtually unlimited external storage capabilities.

Initializing a RAM card

The initialization procedure described here prepares a RAM card for data storage. Note that the initialization procedure also erases anything previously stored on the card. Initialization is required when the following display appears.

```
RAM CARD NOT INITIALIZED
PERFORM INITIALIZATION
[IN]        TEL
```

This display will appear in the following cases.

1. When a card is installed for the first time after being purchased.
2. When a RAM card initialized for a different data type is installed.
3. When a RAM card containing damaged data is installed.
4. When the hardware of a RAM card requires repair.

In the case of 1, or 3...

Perform the initialization procedure.

In the case of 2...

If you want to keep the data stored on the RAM card, do not use the card with the SF Unit. If you do not want to keep the data on the card, perform the initialization procedure.

In the case of 4...

Consult with your nearest Casio dealer.

To initialize a RAM card

```
RAM CARD NOT INITIALIZED
PERFORM INITIALIZATION
```

To clear the above display without proceeding with the initialization procedure, press the [ESC] key or a mode key (i.e. [TEL], [MEMO]).

Press the [FUNCTION] key.

[FUNCTION]

```
5 RAM CARD INITIALIZATION
```


Press [5] to select RAM CARD INITIALIZATION.

[5]

```
INITIALIZE RAM CARD ?
YES [SET] /NO [ESC]
```

Press the [SET] key to initialize the card and enter the RAM card. At this time, the **CARD** indicator appears on the display.

Note

If a secret area is present in the SF Unit's memory, the initialization procedure automatically stores password for the secret area on the RAM card.

Selecting between SF Unit and RAM card storage

You can switch between SF Unit memory and RAM card storage while the initial display of any mode is shown.
The following example shows the procedure of the Telephone Directory, but the same procedure can also be used for the Business Card Library and the Memo Mode.

To select between SF Unit and RAM card storage

Press the [TEL] key.

[TEL]

```
*** TELEPHONE DIRECTORY ***

DATA ITEMS                0
MARKED                    0


          TEL
```

Press the [TEL] key again for RAM card storage. Note that the **CARD** indicator appears on the display.

[TEL]

```
♦♦♦ TELEPHONE DIRECTORY ♦♦♦

CARD DATA ITEMS           0
MARKED                    0


          TEL          CARD
```

Press the [TEL] key once more to return to SF Unit storage.

[TEL]

```
*** TELEPHONE DIRECTORY ***

DATA ITEMS                0
MARKED                    0


          TEL
```


- Use the [BUSINESS CARD] key in the above procedure to switch in the Business Card Library, and the [MEMO] key to switch in the Memo Mode.
- Performing the above procedure while in the SF Unit's secret area, switches to the secret area of the RAM card.

RAM Card secret function

The procedures used for handling of the secret area on a RAM card are similar to those for secret area in the SF Unit's memory.

Important

The SF Unit's password is automatically registered onto the RAM card when the card is initialized, so the following procedure can be performed only if there is not a password already registered in the SF Unit's memory.

To register a RAM card password

Example: Register the password "CARD" for the SF Unit and the RAM card loaded in the SF Unit.

[TEL] [DATA IN/OUT] [→] **CARD** [→]

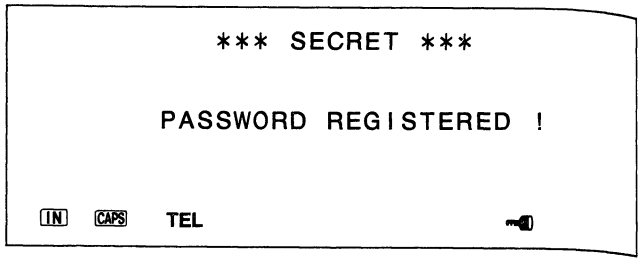
```
REGISTER RAM CARD PASSWORD ?

        YES [SET] /NO [ESC]

[IN]  [CAPS]   TEL
```

Press the [SET] key to register the password, or the [ESC] key to exit without registering the password.

[SET]



The 🔑 indicator indicates the same password (CARD) is registered for both the SF Unit and the RAM card. If you later change the password, it changed for both the unit and the card.

Important

- A password can only be registered during SF Unit storage, and not during RAM card storage.
- To register a password for the SF Unit only, remove the RAM card from the unit before beginning the above procedure.

Entering the RAM card secret area

You can enter the RAM card secret area either from the SF Unit secret area or from the RAM card open area.

To enter the RAM card secret area from the SF Unit secret area

The following example shows the procedure of the Telephone Directory, but the same procedure can also be used for the Business Card Library and the Memo Mode.

1. Press the [TEL] key.
2. Enter the SF Unit secret area.
3. Press the [TEL] key again to enter the RAM card secret area. Note that the **CARD** indicator appears on the display.

Use the [BUSINESS CARD] key in the above procedure to switch in the Business Card Library, and the [MEMO] key to switch in the Memo Mode.

Important

- If the password registered for the RAM card is different from the password registered for the SF Unit, the message "UNIT PASSWORD AND RAM CARD PASSWORD ARE DIFFERENT" appears and it is impossible to enter the RAM card secret area.
- If no password is registered for the RAM card, the message "RAM CARD PASSWORD NOT REGISTERED" appears and it is impossible to enter the RAM card secret area.

To enter the RAM card secret area from the RAM card open area

The following example shows the procedure of the Telephone Directory, but the same procedure can also be used for the Business Card Library and the Memo Mode.

1. Press the [TEL] key.
2. Press the [TEL] key again for RAM card storage.
3. Enter the RAM card secret area.

Use the [BUSINESS CARD] key in the above procedure to switch in the Business Card Library, and the [MEMO] key to switch in the Memo Mode.

Important

- If the password registered for the RAM card is different from the password registered for the SF Unit, the message "UNIT PASSWORD AND RAM CARD PASSWORD ARE DIFFERENT" appears and it is impossible to enter the SF Unit secret area.
- If no password is registered for the SF Unit, the message "UNIT PASSWORD NOT REGISTERED" appears and it is impossible to enter the SF Unit secret area.

Editing RAM card data

The procedures for editing, adding, deleting, copying, moving and searching for RAM card data are the same as those used for data stored in the SF Unit.

Transferring data between the SF Unit and RAM card

Telephone Directory, Business Card Library, and Memo data can be transferred between the SF Unit and a RAM card. You can also specify whether or not the data should be deleted from the sender's memory after the transfer. There are three types of data transfer procedures.

ONE DATA ITEM
This procedure transfers a single data item.

MODE DATA ITEMS
This procedure transfers all of the data items (open area or secret area) contained in the Telephone Directory, Business Card Library, or Memo Mode.

ALL DATA ITEMS
This procedure transfers all Telephone Directory, Business Card Library, and Memo Mode data.

Subsequent operation for transferring data from the SF Unit to the RAM card is identical to that used when transferring data from the RAM card to the SF Unit.

To transfer ONE DATA ITEM

Example: Transfer Thomas Benson's data item from the SF Unit's Telephone Directory to a RAM card.

Press the [TEL] key, followed by the [DATA MGMT] key and the [FUNCTION] key.

[TEL] [DATA MGMT] [FUNCTION]

```
1 UNMARKED DATA ITEM DELETE
2 MESSAGE EDIT (FREE 1~6)

4 DATA COMMUNICATION

6 SOUND

IN          TEL
```

Press [4] to select DATA COMMUNICATION, and then [5] to select DATA TO RAM CARD.

[4] [5]

```
1 TO OPEN AREA
2 TO SECRET AREA




IN          TEL
```

- The display shown above does not appear and the OPEN AREA/ SECRET AREA selection is not required if a password is not registered.
- If you press [2] to select TO SECRET AREA, the message "RAM CARD PASSWORD ?" appears. Enter the proper password and press the [↵] key to enter the secret area.

Press [1] to select TO OPEN AREA.

[1]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS
3 ALL DATA ITEMS

                    -DATA TO RAM CARD-
IN        TEL
```

Press [1] to select ONE DATA ITEM.

[1]

```
SEARCH FOR ?

                    -DATA TO RAM CARD-
IN        TEL
```

Recall the data item to be transferred.

CAPS **BENSON** SEARCH DISPLAY CHANGE

```
BENSON THOMAS          631-343-8888
4355 Calculation Town, New York,
NY

TO CARD ?          YES [SET] /NO [ESC]
IN  CAPS  TEL                  SEARCH
```


Press the SET key to transfer the data.

SET

```
        TRANSFER COMPLETE !

    DELETE ORIGINAL DATA ITEM ?

          YES [SET] /NO [ESC]
IN  CAPS  TEL                  SEARCH
```

Press the ESC key to retain the data in the sender's memory or the SET key to delete it.

To transfer MODE DATA ITEMS

Example: Transfer the Business Card Library from the SF Unit to a RAM card.

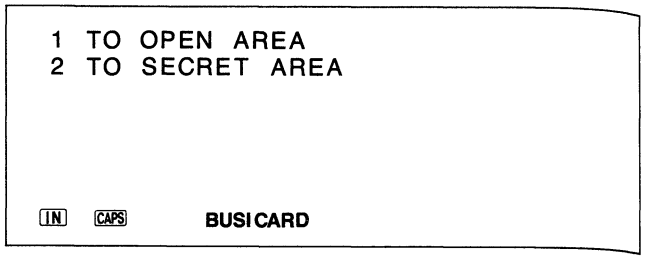
Press the BUSINESS CARD key, followed by the DATA IN/OUT key and FUNCTION key. Then press [4] to selct DATA COMMUNICATION.

BUSINESS CARD DATA IN/OUT FUNCTION [4]

```
1 TRANSMIT
2 RECEIVE
3 PRINT
4 SET HARDWARE PARAMETERS
5 DATA TO RAM CARD
6 PEN PRINTING
IN  CAPS      BUSICARD
```

Press [5] to select DATA TO RAM CARD.

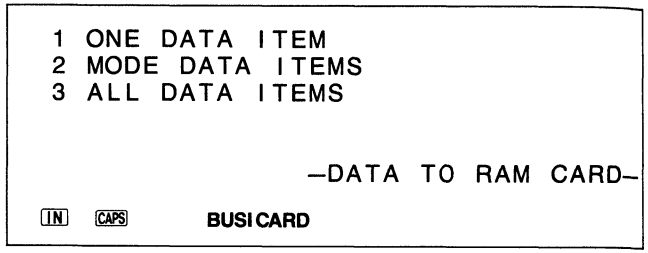
[5]



- The display shown above does not appear and the OPEN AREA/ SECRET AREA selection is not required if a password is not registered.
- If you press [2] to select TO SECRET AREA, the message "RAM CARD PASSWORD ?" appears. Enter the proper password and press the [→] key to enter the Secret Area.

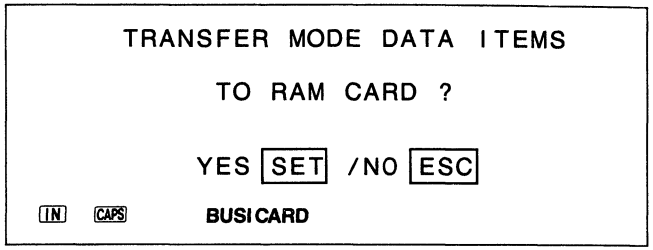
Press [1] to select TO OPEN AREA.

[1]



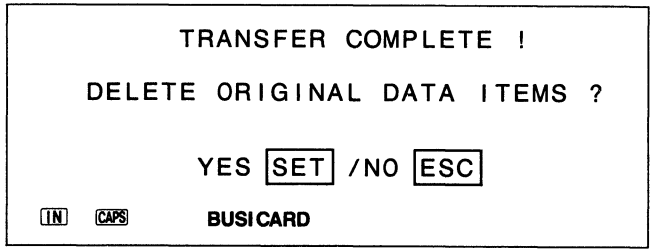
Press [2] to select MODE DATA ITEMS.

[2]



Press the [SET] key to transfer the data.

[SET]



Press the [ESC] key to retain the data in the sender's memory or the [SET] key to delete it.

To transfer ALL DATA ITEMS

Example: Transfer the Telephone Directory, Business Card Library and Memo data from the SF Unit to a RAM card.

Press the [TEL] (or [BUSINESS CARD], [MEMO]) key, followed by the [DATA IN/OUT] key and the [FUNCTION] key. Then press [4] to select DATA COMMUNICATION.

[TEL] [DATA IN/OUT] [FUNCTION] [4]

```
1 TRANSMIT
2 RECEIVE
3 PRINT
4 SET HARDWARE PARAMETERS
5 DATA TO RAM CARD
6 PEN PRINTING
IN  CAPS  TEL
```

Press [5] to select DATA TO RAM CARD.

[5]

```
1 TO OPEN AREA
2 TO SECRET AREA


IN  CAPS  TEL
```

- The display shown above does not appear and the OPEN AREA/ SECRET AREA selection is not required if a password is not registered.
- If you press [2] to select TO SECRET AREA, the message "RAM CARD PASSWORD ?" appears. Enter the proper password and press the [→] key to enter the Secret Area.

Press [1] to select TO OPEN AREA.

[1]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS
3 ALL DATA ITEMS

                  –DATA TO RAM CARD–
IN  CAPS  TEL
```

Press [3] to select ALL DATA ITEMS.

[3]

```
TRANSFER ALL DATA ITEMS
TO RAM CARD ?
YES [SET] /NO [ESC]
IN  CAPS  TEL
```

Press the [SET] key to transfer the data.

[SET]

```
TRANSFER COMPLETE !
DELETE ORIGINAL DATA ITEMS ?
YES [SET] /NO [ESC]
IN  CAPS  TEL
```

Press the [ESC] key to retain the data in the sender's memory or the [SET] key to delete it.

To erase the contents of a RAM card

The initialization procedure in a card mode of Telephone Directory, Business Card Library, or Memo Mode can be used to completely erase the contents of a RAM card.

1. While in the Telephone Directory, Business Card Library, or Memo Mode initial display, press a mode key to enter the card mode.
2. Press the [DATA IN/OUT] key.
3. Press the [FUNCTION] key.
4. Press [5] to select RAM CARD INITIALIZATION.
5. Press the [SET] key to erase the of contents of the RAM card.

Performing Data Communications

Data communications can be performed between two SF Series Units (SF-7000, SF-7500, SF-7600SP, SF-8000, SF-9000 or SF-9500), and between an SF Unit and a personal computer (IBM PC/AT or PS/2, using the optional FA-100 Interface Unit). Also MF-4000 (SFD TOOL-B software) is optionally available to use even with an IBM PC or PC/XT.

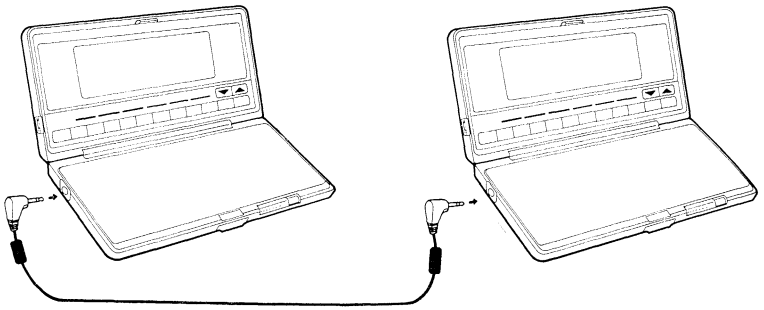
Performing Data Communications Between Two SF Units

Data communications between two SF Series Units can be performed by connecting them using the SB-61* optional cable.

*SB-60 cable also can be used in place of SB-61.

To connect two SF Units

1. Check to make sure that the power of the two SF Series Units is OFF.
2. Remove the connector covers of the two SF Series Units.
3. Connect the two SF Series Units using the SB-60/SB-61 cable.



SB-60/SB-61 cable

Be sure to keep the connector of the SF Unit covered when it is not being used.

Performing Data Communications Between an SF Unit and a Personal Computer

Data communications between an SF Unit and an IBM PC/AT or PS/2 personal computer can be performed by connecting them through the optional FA-100 Interface Unit. The FA-100 comes with the necessary communications software SFD TOOL on both 3.5-inch and 5-inch floppy disks. This software also makes it possible to transfer Lotus 1-2-3 data from your personal computer to the SF Unit.
For data communications between your SF Unit and an IBM PC or PC/XT, you must purchase the separately available MF-4000 (SFD TOOL-B software). The software comes complete with documentation that explains how to use it.

Requirements for connection of an SF Unit with a personal computer

The following lists the software and hardware required for the exchange of data between an SF-9500 and an IBM personal computer.

1. **Personal Computer**
   Model:
   Software SFD TOOL
   IBM PC/AT with display type EGA monitor + EGA board
   Personal System 2 (PS/2) with display type VGA monitor + VGA board
   Software SFD TOOL-B
   IBM PC, PC/XT or PC/AT — with one of video display adaptors: CGA, EGA or PGC (PGA)
   IBM PS/2 — model 30 or 30-286 with a video display adaptor, MCGA
   model 50, 50Z, 60, 70-386 or 80-386 with a video display adaptor VGA or 8514/A

RAM: At least 512KB
Graphic memory capacity: At least 256KB (Not necessary for SFD TOOL-B)
Data communication: RS-232C interface

2. RS-232C Cable

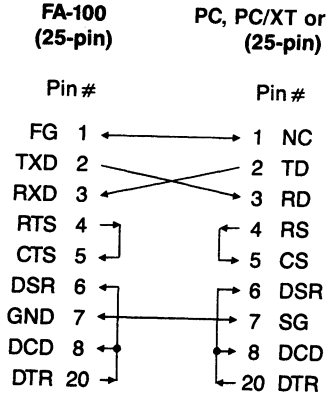
Number of pins:
IBM PC/AT — 25 pins ↔ 9 pins
IBM PC, PC/XT and PS/2 — 25 pins ↔ 25 pins

To use a 25-pin ↔ 25-pin with the PC/AT, a 9-pin female ↔ 25-pin male conversion cable is required.

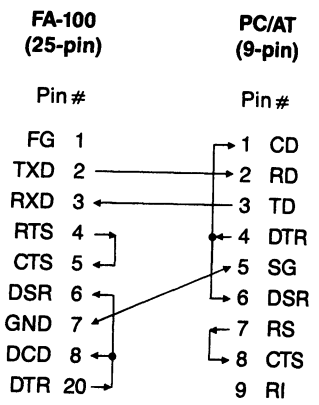
Casio brand 25-pin↔25-pin (SB-80) and 9-pin female↔25-pin male (SB-81) RS-232C cables are optionally available.

Wiring Diagram:

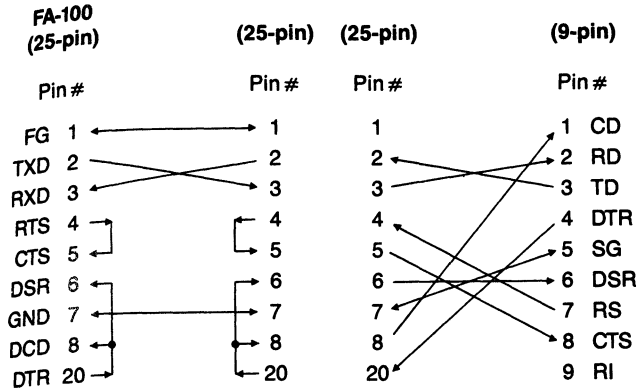
1) PC, PC/XT and PS/2 (with 25-pin↔25-pin RS-232C cable)



2) PC/AT (with 25-pin↔9-pin RS-232C cable)



3) PC/AT (with 25-pin↔25-pin RS-232C cable and 25-pin↔9 pin conversion cable)

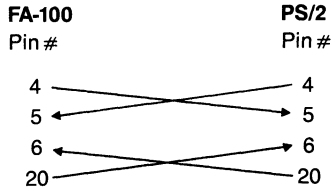


The above illustration shows the logical wiring arrangement. Other wiring can be used as long as it meets the following conditions:

PS/2

1. #2 of FA-100 is connected to #3 of PS/2.
2. #3 of FA-100 is connected to #2 of PS/2.
3. #7 of FA-100 is connected to #7 of PS/2.
4. #4 and #20 are data send pins, while #5 and #6 are data receive pins. Send pins must be connected to receive pins.

Example:



To connect an SF Unit with a personal computer

1. First, ensure that the power of the SF Unit and the personal computer is switched OFF.
2. Connect the personal computer to the FA-100 Interface Unit, using an RS-232C cross cable.

- If you are connecting to an IBM PC/AT, use a 9-pin cable. For an IBM PC, PC/XT or PS/2, use a 25-pin cable.

3. Remove the connector cover from the connector terminal of the SF Unit.

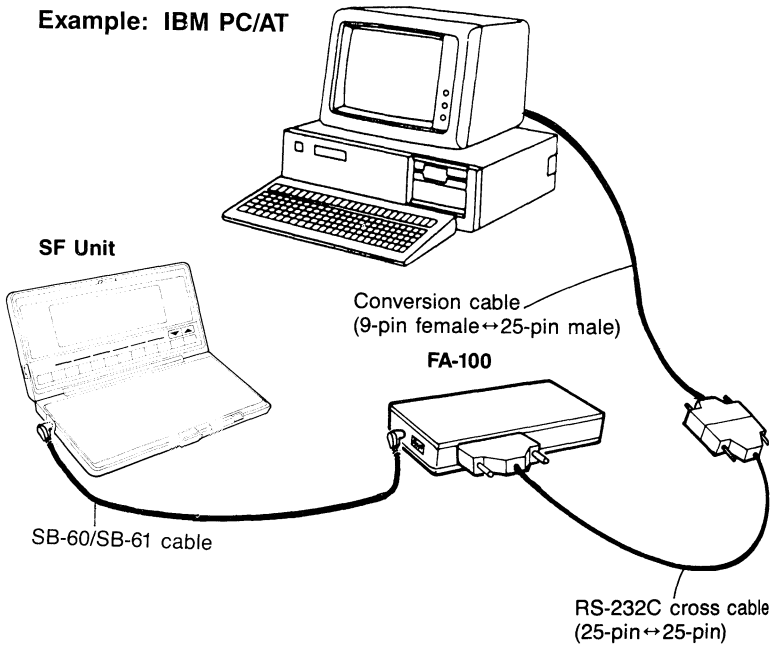
- Be careful not to lose the connector cover. It should be replaced in the connector terminal whenever the SB-60/SB-61 cable is disconnected.

4. Connect the SF Unit to the FA-100 Interface Unit using the SB-60/SB-61 cable.
5. Switch the power of the personal computer ON, followed by the FA-100 Interface Unit, and then the SF Unit.

- **When data transfer operations are complete, switch power off in the sequence: SF Unit, FA-100 Interface Unit, and then personal computer.**
  Next, disconnect the units.

Connection with an IBM personal computer

Example: IBM PC/AT



Setting the Hardware Parameters

Before you can perform data communications, you must first set up certain hardware parameters to make sure that the two units are able to understand each other. The parameters of the send unit and the receive unit must be same for them to be able to communicate with each other.
There are three hardware parameters that must be set:

Parameter	Settings
PARITY	EVEN / ODD / NONE
BIT LENGTH	7 bits / 8 bits
BPS	1200 / 2400 / 4800 / 9600

BPS means "Bits Per Second" and represents the speed at which data is communicated. Usually, the fastest speed of 9600 BPS can be used, but if you have problems transferring data at this speed, try using one of the slower speeds.

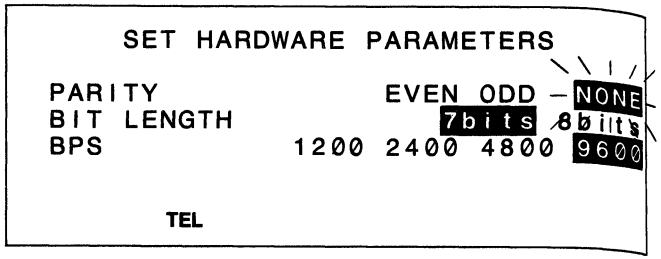
To set the hardware parameters

Example: Let us say that we wish to set the hardware parameters for EVEN parity, a data bit length of 8 bits, and a baud rate of 4800.

While in the Calendar Display, Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [4] to select "SET HARDWARE PARAMETERS".

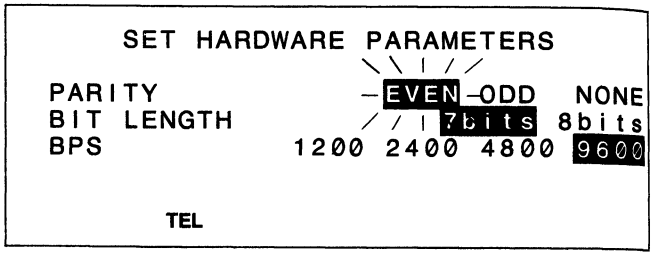
[TEL] [FUNCTION] [4] [4]



(The display above is the default specifications following the RESET operation.)

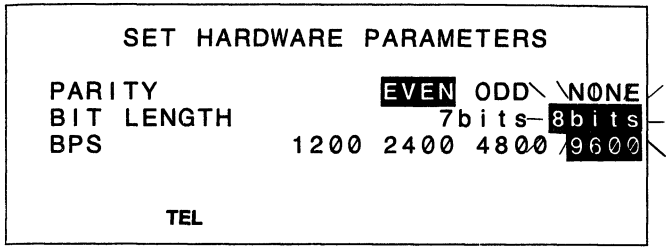
The hardware parameters highlighted on the display are those that are currently selected. Note that the PARITY selection is flashing. Press the [◄] and [►] cursor keys to change the current PARITY selection until EVEN is selected.

[◄] [◄]



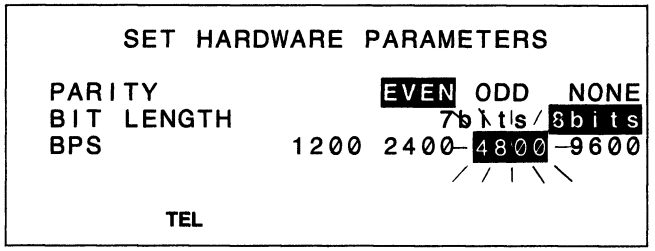
Next, press the [▼] cursor key to move to the BIT LENGTH selection. Use [◄] and [►] to select 8 bits.

[▼] [►]



Next, press the [▼] cursor key to move to the BPS selection. Use [◄] and [►] to select 4800.

[▼] [◄]



Now press the [SET] key to register your hardware parameters and return to the "DATA COMMUNICATION" menu.

Press the [ESC] key to cancel the setting.

See the Owner's Manual that comes with the FA-100 Interface Unit for information on the personal computer's hardware parameters.

Setting up the Receive SF Unit

The following procedures describe how to set up an SF Unit to receive data from another SF Unit or from a personal computer.

To set up the receive SF Unit

While in the Calendar Display, Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [DATA IN/OUT] key. At this time the indicator [IN] appears in the lower left of the display to indicate that the SF Unit is ready for data input.

Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION", and the following menu appears.

[TEL] [DATA IN/OUT] [FUNCTION] [4]

```
1 TRANSMIT
2 RECEIVE
3 PRINT
4 SET HARDWARE PARAMETERS
5 DATA TO RAM CARD
6 PEN PRINTING

[IN]        TEL
```


Press [2] to select "RECEIVE" and the following display appears to indicate that the SF Unit is ready to receive data.

[2]

```
RECEIVE OK !

TO STOP PRESS [ESC] KEY

[IN]        TEL
```

See the Owner's Manual that comes with the FA-100 Interface Unit for information on the personal computer receive operation.

Transmitting Data

The procedures described in this section make it possible to send data from one SF Unit to another.

Before actually beginning these procedures, make sure that the message "RECEIVE OK !" is shown on the display of the receiving unit.

See the Owner's Manual that comes with the FA-100 Interface Unit for information on the personal computer send operation.

About transmitting data

Before actually getting into actual data communications, we should first define a few rules about how the SF Unit conducts data communications. Generally, you will have a number of options when transferring data:

ONE DATA ITEM

This option sends a single selected Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper data item from one unit to the other.

MONTH

This option sends highlighted date data for a single selected month's Calendar Display.

MODE DATA ITEMS

This option sends all of the data items contained in the Telephone Directory, Business Card Library, or Memo Mode from one unit to the other.
In the Schedule Keeper, this option sends all of the schedule data stored for a specific period.
In the Calendar Display, this option sends highlighted date data for a specific period.

ALL DATA ITEMS

This option sends all Telephone Directory, Business Card Library, Memo Mode, Schedule Keeper and Calendar Display data stored in one unit to the other. Note that if the secret memory area of the SF Unit is accessed during this operation, secret area data only are sent. Otherwise, open (non-secret) area data only are sent.

Note

You can exit from data communication menus by pressing the [TEL], [BUSINESS CARD], [MEMO], [SCHEDULE], [CALENDAR], [HOME TIME], [WORLD TIME], [CAL] or [ESC] key.

To send ALL DATA ITEMS

While the transmitting unit is in the Calendar Display, Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper, press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION", and the following menu appears.

[TEL] [FUNCTION] [4]

```
1 TRANSMIT

3 PRINT
4 SET HARDWARE PARAMETERS

6 PEN PRINTING
          TEL
```

Press [1] to select "TRANSMIT" and the following menu appears.

[1]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS
3 ALL DATA ITEMS

                    -TRANSMIT-
TEL
```

Press [3] to select "ALL DATA ITEMS", and the following display appears to confirm whether you wish to proceed.

[3]

```
TRANSMIT ALL DATA ITEMS ?

YES [SET] /NO [ESC]
TEL
```

Press the [SET] key to proceed with the data transmission, or press [ESC] if you wish to cancel.

[SET]

```
NOW TRANSMITTING !

TO STOP PRESS [ESC] KEY
```


The above message appears when transmission takes more than one second.

Data are transmitted in the sequence of Telephone Directory data, Business Card Library data, Memo data, Schedule Keeper data and Calendar data.

To send ONE DATA ITEM in the Telephone Directory, Business Card Library, or Memo Mode

Note that the procedures described below are performed while the initial display of the Telephone Directory, Business Card Library, or Memo Mode is shown, immediately after pressing the corresponding key to enter any of these modes.

Example: Send the Memo data under the name "PRICE LIST (TAX FREE)".

Press the [MEMO] key of the transmitting unit to enter the Memo Mode.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT" and the following menu appears on the display.

[MEMO][FUNCTION][4][1]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS
3 ALL DATA ITEMS

                    -TRANSMIT-
MEMO
```

Press [1] to select "ONE DATA ITEM" and a message appears on the display to ask you what data item you wish to transmit.

[1]

```
SEARCH FOR ?

                    -TRANSMIT-
MEMO
```

Scroll through the Index Display until the name of the Memo you wish to send is at the top, and then press the [DISPLAY CHANGE] key to change to the Data Display.

[▼][▼][DISPLAY CHANGE]

```
 PRICE LIST (TAX FREE)
 Perfume $200
 Tie     $125
•DRIVER'S LICENSE
▼TRANSMIT ?      YES [SET] /NO [ESC]
MEMO
```

Press the [SET] key to begin transmission of the displayed data item, or the [ESC] key to return to the initial Memo Mode Display.

- You can interrupt data transmission by pressing the [ESC] key.
- The display of the transmitting unit should appear as follows.

```
 PRICE LIST (TAX FREE)
 Perfume $200
 Tie     $125
•DRIVER'S LICENSE
▼TRANSMIT ?      YES [SET] /NO [ESC]
MEMO
```

At this time you can search for another data item and press [SET] to transmit it, or you can exit the transmit function by pressing [ESC].

To send ONE DATA ITEM in the Schedule Keeper

Example: Send the Schedule Keeper data for the "Discussion about B-PROJECT" on July 26.

Press the [SCHEDULE] key of the transmitting unit to enter the Schedule Keeper.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT" and the following menu appears on the display.

[SCHEDULE][FUNCTION][4][1]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS
3 ALL DATA ITEMS

                    -TRANSMIT-
SCHED
```

Press [1] to select "ONE DATA ITEM" and the message "SEARCH FOR ?" appears on the display to ask you what data item you wish to transmit.

Enter the text that you wish to search for. If you make a mistake while entering text, press the [◀] or [▶] key to move the cursor to the location of the mistake and make corrections.

[1] [SHIFT] **DISCUSSION** [SEARCH]

```
          1990– 7–26 (THU)
10:00A Discussion about B–PROJECT

TRANSMIT ?        YES [SET] /NO [ESC]
                  SCHED          SEARCH
```

Press the [SET] key to begin transmission of the displayed data item, or the [ESC] key to return to the Time Table Display for July 26.

To send one MONTH in the Calendar Display

Example: Send the calendar for December 1990.

Press the [CALENDAR] key of the transmitting unit to enter the Calendar Display.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT".

Press [1] to select "MONTH" and a calendar appears on the display.

[CALENDAR] [FUNCTION] [4] [1] [1]

```
   SU MO TU WE TH FR SA
1              1  2  3  4  5
    6  7  8  9 10 11 12      TRANSMIT ?
   13 14 15 16 17 18 19
   20 21 22 23 24 25 26
   27 28 29 30 31
                  – 1991 –   YES [SET] /NO [ESC]
```

Scroll through the Calendar Display until the calendar you wish to send is displayed.

[▲]

```
   SU MO TU WE TH FR SA
12                    1
    2  3  4  5  6  7  8      TRANSMIT ?
    9 10 11 12 13 14 15
   16 17 18 19 20 21 22
   23 24 25 26 27 28 29
   30 31          – 1990 –   YES [SET] /NO [ESC]
```

Press the [SET] key to begin transmission of the displayed calendar, or the [ESC] key to return to the Calendar display for the month selected.

To send MODE DATA ITEMS in the Telephone Directory, Business Card Library, or Memo Mode

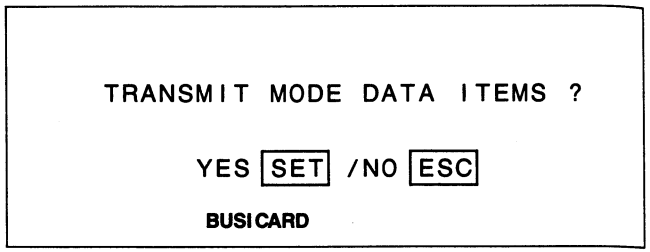
Example: Send all data items stored in the Business Card Library.

Press the [BUSINESS CARD] key of the transmitting unit to enter the Business Card Library.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT".

Press [2] to select "MODE DATA ITEMS" and a message appears on the display to confirm whether or not you wish to transmit the data items.

[BUSINESS CARD] [FUNCTION] [4] [1] [2]



Press the [SET] key to begin transmission of the displayed data item, or the [ESC] key to return to the "DATA COMMUNICATION" menu.

To send MODE DATA ITEMS for a specific period in the Schedule Keeper

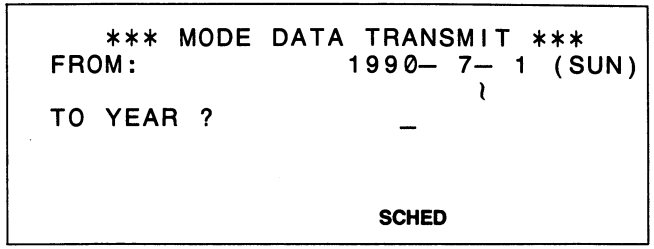
Example: Send all data items stored in the Schedule Keeper from July 1, 1990 through July 31.

Press the [SCHEDULE] key of the transmitting unit to enter the Schedule Keeper, and enter the starting date (July 1, 1990) to recall its Timetable Display.
Press the [FUNCTION] followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT".

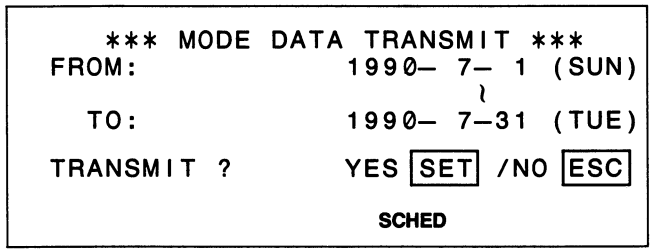
Press [2] to select "MODE DATA ITEMS" and a message appears on the display to ask you up to what date you wish to send Schedule Keeper data.

[SCHEDULE] [SHIFT] [CLEAR] **90** [DATE] **7** [DATE] **1** [DATE] [FUNCTION] [4] [1] [2]



Enter the ending date (July 31, 1990), and press the [SET] key to begin transmission, or the [ESC] key to return to the "DATA COMMUNICATION" menu.

90 [DATE] **7** [DATE] **31** [DATE]



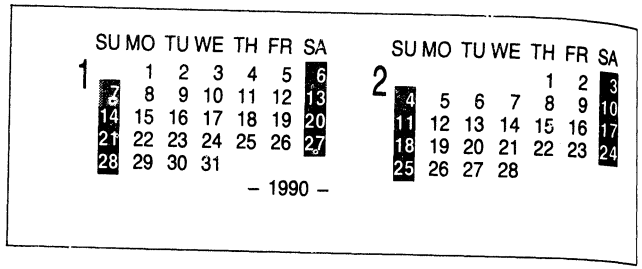
Even if the starting date you specify is chronologically after the ending date (from October 31, 1990 through October 1, 1990, for example), the SF Unit still transmits the data starting from October 1 and ending with October 31.

To send MODE DATA ITEMS for a specific period in the Calendar Display

Example: Send highlighted date data from January through December 1990.

Press the [CALENDAR] key of the transmitting unit to enter the Calendar Display, and display the starting calendar (January 1990) on the left side of the display.

[CALENDAR] [CLEAR] **90** [DATE] **1** [DATE] [CALENDAR]

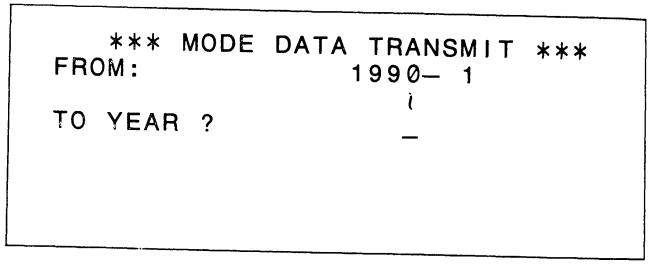


Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [1] to select "TRANSMIT".

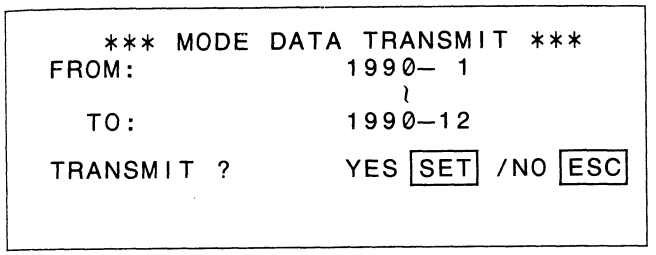
Press [2] to select "MODE DATA ITEMS" and a message appears on the display to ask you up to what date you wish to send highlighted data.

[FUNCTION] [4] [1] [2]



Specify the ending month (December 1990), and press the [SET] key to begin transmission, or the [ESC] key to return to the "DATA COMMUNICATION" menu.

90 [DATE] **12** [DATE]



Transmitting error messages

The following messages appear on the display of the receiving unit when a problem occurs during data communications. All data transferred up to display of the message is retained in memory, but data communication is terminated. If one of the following error messages appears, press the [TEL], [BUSINESS CARD], [MEMO], [SCHEDULE], [HOME TIME], [WORLD TIME], [CAL] or [CALENDAR] key to clear the error message. Then, take corrective action and try data communication again.

Message	Cause
STOPPED !	• [ESC] key pressed on transmitting or receiving unit. • Memory area of receiving unit full. • Battery power drops below a certain level.
TRANSMIT ERROR !	Cable connection broken or abnormal noise in cable.
MEMORY FULL !	Memory area of receiving unit full.

Notes

- If the secret memory area (see page 162) is accessed, the data received is stored in the secret memory area.
- When transferring MODE DATA ITEMS or ALL DATA ITEMS, each data item is displayed on the receiving unit as it is received.
- When receipt of ONE DATA ITEM is complete, the received data item is shown on the display.
- When receipt of MODE DATA ITEMS is complete, the receiving unit enters the mode (Telephone Directory, Business Card Library, etc.) for the data items received.
- When receipt of ALL DATA ITEMS is complete, the receiving unit enters the mode which was last transferred.
- When ONE DATA ITEM is sent from a computer to an SF Unit, the computer returns to its initial display.
- After preparing the SF Unit to receive data, it can receive data regardless of the mode of the transmitting unit.
- If a calendar stored in the receiving unit already has highlighted dates, the highlight data for that month is ignored.
- If a schedule alarm data received via data communication has identical time to one that is already stored in memory, the message "THAT TIME ALREADY SET FOR SCHEDULE ALARM !" appears on the display and the schedule alarm data being received is not stored in memory.

Using Printer

Printing Data

You can connect the SF Unit to an EPSON LX-800 printer using the optional FA-100 interface unit and an RS-232C cross cable. As with data communications, you can select a variety of formats for printing data.

About printing

You have a number of options when printing data:

ONE DATA ITEM

This option lets you print a single selected Telephone Directory, Business Card Library, Memo Mode, or Schedule Keeper data item.

MONTH

This option lets you print a calendar for a single selected month.

MODE DATA ITEMS

This option lets you print all of the data items contained in the Telephone Directory, Business Card Library, or Memo Mode.

In the Schedule Keeper, this option prints all of the schedule data stored for a specific period.

In the Calendar Display, this option prints the calendars for a specific period.

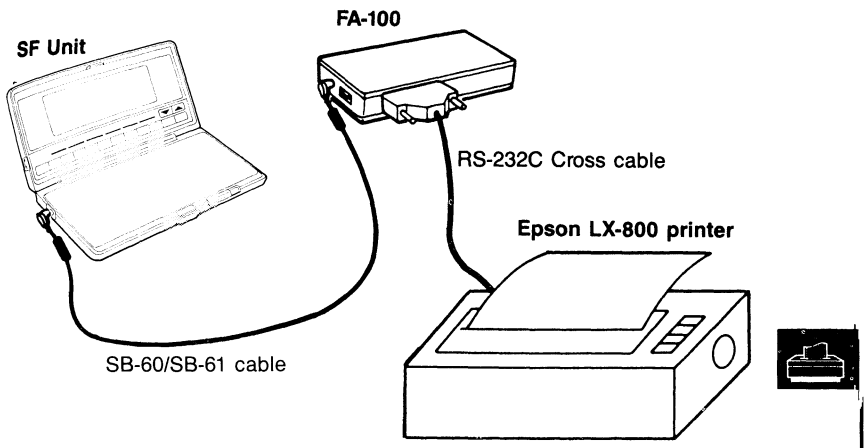
To connect an SF Unit with a printer

1. First, ensure that the power of the SF Unit and the printer is switched OFF.
   Printer — EPSON LX-800, using #8143 serial interface.
2. Connect the printer to the FA-100 Interface Unit using an RS-232C cross cable.
3. Remove the connector cover from the connector terminal of the SF Unit.

- Be careful not to lose the connector cover. It should be replaced in the connector terminal whenever the SB-60/SB-61 cable is disconnected.

4. Connect the SF Unit to the FA-100 Interface Unit.
5. Switch the power of the FA-100 Interface Unit ON, followed by the SF Unit, and then the printer.

- When data transfer operations are complete, switch power off in the sequence: printer, SF Unit, and then FA-100 Interface Unit. Next, disconnect the units.



To print ONE DATA ITEM in the Telephone Directory, Business Card Library, or Memo Mode

Example: Print the Telephone Directory data for Emily Jackson.

Press the [TEL] key to enter the Telephone Directory.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [3] to select "PRINT" and the following menu appears on the display.

[TEL] [FUNCTION] [4] [3]

```
1 ONE DATA ITEM
2 MODE DATA ITEMS

                          -PRINT-
TEL
```

Press [1] to select "ONE DATA ITEM" and a message appears on the display to ask you what data item you wish to print.

[1]

```
SEARCH FOR ?

                          -PRINT-
TEL
```

Enter the name you wish to search for, and when it appears in the first line of the Index Display, press the [DISPLAY CHANGE] key to change to the Data Display.

[CAPS] JACKSON [SEARCH] [DISPLAY CHANGE]

```
JACKSON EMILY          222-228-8227
570 Casio Avenue, Seattle, WA


PRINT ?          YES [SET] /NO [ESC]
 [CAPS]  TEL                  [SEARCH]
```

Press the [SET] key to begin printing of the displayed data item, or the [ESC] key to return to the initial Telephone Directory Display.

To print ONE DATA ITEM in the Schedule Keeper

Example: Print the Schedule Keeper data for the "Department Meeting" on July 26.

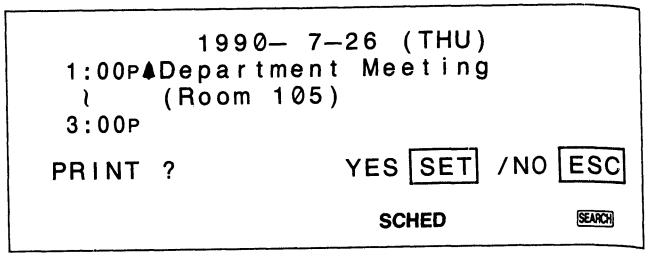
Press the [SCHEDULE] key to enter the Schedule Keeper.
Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [3] to select "PRINT".

Press [1] to select "ONE DATA ITEM" and the message "SEARCH FOR" appears on the display to ask you what data item you wish to print.

Enter the text that you wish to search for. If you make a mistake while entering text, press the [◀] or [▶] key to move the cursor to the location of the mistake and make corrections.

SCHEDULE FUNCTION 4 3 1 SHIFT **DEPARTMENT** SEARCH



Press the SET key to begin printing of the displayed data item, or the ESC key to return to the Time Table Display for July 26.

To print one MONTH in the Calendar Display

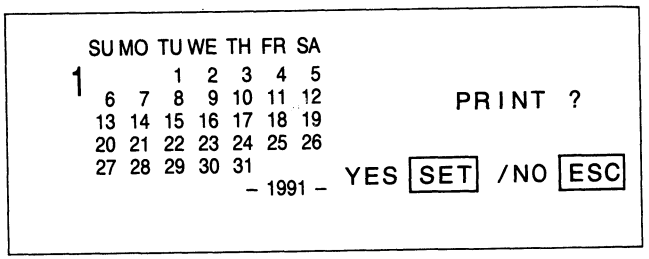
Example: Print the calendar for December 1990.

Press the CALENDAR key to enter the Calendar Display.
Press the FUNCTION key followed by 4 to select "DATA COMMUNICATION".

Press 3 to select "PRINT".

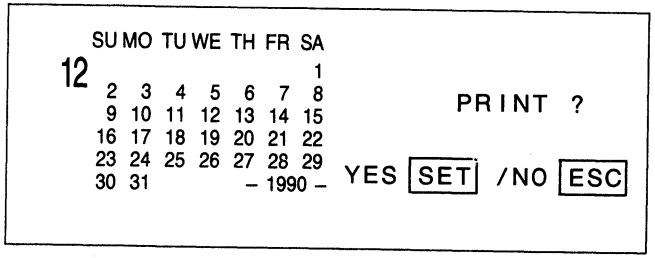
Press 1 to select "MONTH" and a calendar appears on the display.

CALENDAR FUNCTION 4 3 1



Scroll through the Calendar Display until the calendar you wish to print is displayed.

▲



Press the SET key to begin printing of the displayed calendar, or the ESC key to return to the Calendar display.

To print MODE DATA ITEMS in the Telephone Directory, Business Card Library, or Memo Mode

Example: Print all data items stored in the Business Card Library.

Press the BUSINESS CARD key to enter the Business Card Library.
Press the FUNCTION key followed by 4 to select "DATA COMMUNICATION".

Press 3 to select "PRINT".

Press 2 to select "MODE DATA ITEMS" and a message appears on the display to confirm whether or not you wish to print the data items.

BUSINESS CARD FUNCTION 4 3 2

```
PRINT MODE DATA ITEMS ?

YES [SET] /NO [ESC]
```

BUSICARD

Press the SET key to begin printing of the displayed data item, or the ESC key to return to the "DATA COMMUNICATION" menu. During printing, the message "NOW PRINTING ! TO STOP PRESS ESC KEY" will appear.

To print MODE DATA ITEMS for a specific period in the Schedule Keeper

Example: Print all data items stored in the Schedule Keeper from July 1, 1990 through July 31.

Press the SCHEDULE key to enter the Schedule Keeper, and enter the starting date (July 1, 1990) to recall its Timetable Display.
Press the FUNCTION followed by 4 to select "DATA COMMUNICATION".

Press 3 to select "PRINT".

Press 2 to select "MODE DATA ITEMS" and a message appears on the display to ask you up to what date you wish to print Schedule Keeper data.

SCHEDULE SHIFT CLEAR 90 DATE 7 DATE 1 DATE FUNCTION 4 3 2

```
    *** MODE DATA PRINT ***
FROM:              1990- 7- 1 (SUN)
                                ≀
TO YEAR ?                  _
```

SCHED

Enter the ending date (July 31, 1990), and press the SET key to begin printing, or the ESC key to return to the "DATA COMMUNICATION" menu.

90 DATE 7 DATE 31 DATE

```
    *** MODE DATA PRINT ***
FROM:              1990- 7- 1 (SUN)
                                ≀
  TO:              1990- 7-31 (TUE)
PRINT ?            YES [SET] /NO [ESC]
```

SCHED

Even if the starting date you specify is chronologically after the ending date (from October 31, 1990 through October 1, 1990, for example), the SF Unit still prints the data starting from October 1 and ending with October 31.

To print MODE DATA ITEMS for a specific period in the Calendar Display

Example: Print all of the calendars from January through December 1990.

Press the [CALENDAR] key to enter the Calendar Display, and display the starting calendar (January 1990) on the left side of the display.

[CALENDAR] [CLEAR] **90** [DATE] **1** [DATE] [CALENDAR]

```
   SU MO TU WE TH FR SA        SU MO TU WE TH FR SA
1     1  2  3  4  5  6     2                 1  2  3
   7  8  9 10 11 12 13        4  5  6  7  8  9 10
  14 15 16 17 18 19 20       11 12 13 14 15 16 17
  21 22 23 24 25 26 27       18 19 20 21 22 23 24
  28 29 30 31                25 26 27 28
          - 1990 -
```

Press the [FUNCTION] key followed by [4] to select "DATA COMMUNICATION".

Press [3] to select "PRINT".

Press [2] to select "MODE DATA ITEMS" and a message appears on the display to ask you up to what month you wish to print Calendar display.

[FUNCTION] [4] [3] [2]

```
    *** MODE DATA PRINT ***
FROM:          1990- 1
                     ↕
TO YEAR ?            _
```


Specify the ending calendar (December 1990), and press the [SET] key to begin printing, or the [ESC] key to return to the "DATA COMMUNICATION" menu.

90 [DATE] **12** [DATE]

```
    *** MODE DATA PRINT ***
FROM:          1990- 1
                     ↕
  TO:          1990-12
PRINT ?        YES [SET] /NO [ESC]
```

Printing error messages

If the following error message appears during printing, press the [TEL], [BUSINESS CARD], [MEMO], [SCHEDULE] or [CALENDAR] key to clear the error message. Then, take corrective action and try printing again.

Message	Meaning	Action
STOPPED !	• Printing stopped manually. • Battery power drops below a certain level.	• Print again. • Replace the main power supply batteries and print again.

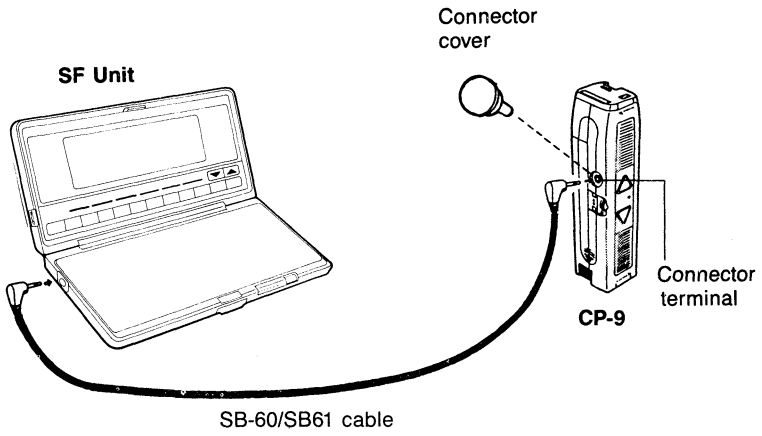
Using the Pen Printer

Pen Printing

Connection of the optional CP-9 Pen Printer using the SB-60/SB-61 cable lets you print data directly from the SF Unit. You can either print data already stored in the SF Unit, or you can use the SF Unit's keyboard for input of text to print.

To connect the Pen Printer to the SF Unit

1. Check to make sure that the power of the Pen Printer and the SF Unit is switched OFF.
2. Remove the Pen Printer's connector cover and connect the SB-60/SB-61 cable.
3. Remove the SF Unit's connector cover and connect the SB-60/SB-61 cable.



Be sure to keep the connectors of the Pen Printer and SF Unit covered when they are not being used.

To print data already stored in SF Unit memory

Example: Print the Telephone Directory data for Diana Smith.

Press the [TEL] key, followed by the [FUNCTION] key. Then press [4] to select DATA COMMUNICATION.

[TEL][FUNCTION][4]

```
1 TRANSMIT

3 PRINT
4 SET HARDWARE PARAMETERS

6 PEN PRINTING
          TEL
```

Press [6] to select PEN PRINTING.

[6]

```
1 INPUT ITEM PRINT
2 STORED ITEM PRINT
3 PRINT FORMAT



          TEL
```

Press [2] to select STORED ITEM PRINT, and the message "SEARCH FOR ?" appears. Enter the name for the data you wish to print.

[2]

```
SEARCH FOR ?

                    -PEN PRINTING-
TEL
```

[CAPS] **SMITH** [SEARCH] [DISPLAY CHANGE]

```
SMITH DIANA              567-645-3233
6322 S.F. Avenue, Chicago, IL

PRINT ABOVE ?   YES [SET] /NO [ESC]
  [CAPS] TEL                  [SEARCH]
```

Press the Pen Printer's **READ** button, and then press the SF Unit's [SET] key. To cancel the printing operation without printing anything, press the SF Unit's [ESC] key.

[READ] (Pen Printer)

[SET]

```
NOW TRANSMITTING !

TO STOP PRESS [ESC] KEY
```


Press the Pen Printer's **PRINT** button and print the first line of data.
Press [▼] to locate the second line of data at the top of the display.

[▼]

```
▲ 6322 S.F. Avenue, Chicago, IL

PRINT ABOVE ?   YES [SET] /NO [ESC]
  [CAPS] TEL
```

Press the Pen Printer's **READ** button, and then press the SF Unit's [SET] key.

Press the Pen Printer's **PRINT** button and print the second line of data.
Repeat this operation as many times as required to print all of the data.

Printing sample:

```
SMITH DIANA              567-645-3233
6322 S.F. Avenue, Chicago, IL
```

Time data for a schedule cannot be printed.

To print text entered on the SF Unit's keyboard

Example: Input and print the text "COMPANY NEWS".

Press the [MEMO] (or [TEL], [BUSINESS CARD], [SCHEDULE]) key, followed by the [FUNCTION] key. Then press [4] to select DATA COMMUNICATION and [6] to select PEN PRINTING.
Press [1] to select INPUT ITEM PRINT, and the message "INPUT ITEM !" appears.

MEMO FUNCTION 4 6 1

```
INPUT ITEM !


                    MEMO
```

Enter the text you wish to print.

CAPS **COMPANY** SPACE **NEWS**

```
COMPANY NEWS_


PRINT ?          YES SET /NO ESC
 CAPS                MEMO
```

Press the Pen Printer's **READ** button, and then press the SF Unit's SET key. To cancel the printing operation without printing anything, press the SF Unit's ESC key.

READ (Pen Printer)

SET

```
        NOW TRANSMITTING !

TO STOP PRESS ESC KEY
```


Press the Pen Printer's **PRINT** button and print the text.

Printing sample:

```
COMPANY NEWS
```

- If you wish to print more text following the above operation, press the SF Unit's ESC key to return to the "INPUT ITEM !" display, and proceed as described above.
- You can use the ↵ key while inputting text on the SF Unit's keyboard. When the Pen Printer comes to the newline mark, it stops printing to let you move the Pen Printer to the next line. To continue, press the Pen Printer's **PRINT** button again.
- The maximum number of characters that you can input for the above operation can be determined by checking the Print Format display shown on page 254 of this manual. This number depends on the Pen Printer's PITCH setting.
- Each newline mark is counted as a letter, and up to 15 newline marks can be input.
- Text stored in a letter memory can also be recalled in the above operation for printing.
- When the message "STOPPED" appears on the display of the SF Unit, press the ◄ or ► key to return to the "INPUT ITEM !" display.

Setting the Print format

The following table shows the possible format settings that can be used for printing.

Options	Settings
Character size	NORMAL DOUBLE HEIGHT DOUBLE WIDTH 4 × NORMAL
Pitch	0.000 mm ~ 12.000 mm (1 pitch: 0.125 mm)

To set the print format

Example: Print the text "COMPANY NEWS" using 4 × NORMAL character size, with a pitch of 2.5 mm.

Press the MEMO (or TEL, BUSINESS CARD, SCHEDULE) key, followed by the FUNCTION key. Then press 4 to select DATA COMMUNICATION and 6 to select PEN PRINTING.

Press 3 to select PRINT FORMAT.

MEMO FUNCTION 4 6 3

```
PRINT FORMAT
CHARACTER SIZE      NORMAL
PITCH               1.500 mm
                    (152 CHRS)
MEMO
```

"NORMAL" is shaded because it is selected. Use the ▶ and ◀ keys to change the character size setting.

▶ ▶ ▶

```
PRINT FORMAT
CHARACTER SIZE      4x NORMAL
PITCH               1.500 mm
                    ( 97 CHRS)
MEMO
```


Press ▼ to select the PITCH setting. Press ▶ to increase the pitch setting, and ◀ to decrease it.
Note that the number of characters in parentheses also changes as you change the pitch. This value tells you the maximum number of characters you can print.

▼ ▶ ··· ▶

```
PRINT FORMAT
CHARACTER SIZE      4x NORMAL
PITCH               2.500 mm
                    ( 82 CHRS)
MEMO
```

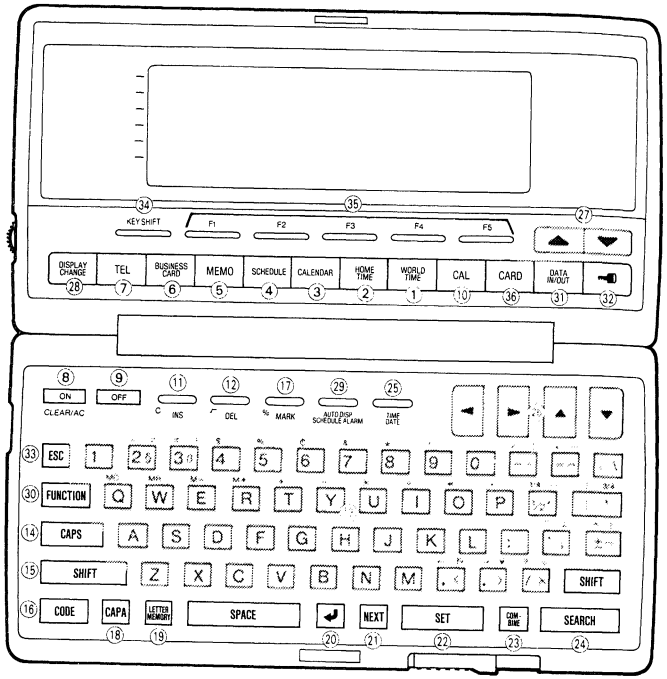
Press the SET key to set the print format and return to the PEN PRINTING menu.

Printing sample:

COMPANY NEWS

Reference

Keys



① World Time key
② Home Time key
③ Calendar key
④ Schedule key
⑤ Memo key
⑥ Business Card key
⑦ Telephone Directory key
⑧ Power ON/Clear key
⑨ Power OFF key
⑩ CAL mode key
⑪ Insert key
⑫ Delete key
⑬ Character keys
⑭ CAPS key
⑮ Shift key
⑯ Code key
⑰ Mark key
⑱ Capacity display key
⑲ Letter Memory key
⑳ Return key
㉑ NEXT key
㉒ SET key
㉓ COMBINE key
㉔ SEARCH key
㉕ Time/Date key
㉖ Cursor keys
㉗ Page Up/ Page Down keys
㉘ Display Change key
㉙ Auto Display/ Schedule alarm key
㉚ Function key
㉛ Data Input/ Output key
㉜ Secret key
㉝ ESC key
㉞ KEY SHIFT key
㉟ F1 ~ F5 keys
㊱ CARD key

Key Functions

No.	Name	Function	Key CAP
①	World Time key	Press this key to enter the World Time Display.	WORLD TIME
②	Home Time key	Press this key to enter the Home Time Display to switch between 12-hour and 24-hour formats, or to change the daily alarm time.	HOME TIME
③	Calendar key	Press this key to enter the Calendar Display.	CALENDAR
④	Schedule key	Press this key to enter the Schedule Keeper for data input or recall.	SCHEDULE
⑤	Memo key	Press this key to enter the Memo Mode for data input or recall.	MEMO
⑥	Business Card key	Press this key to enter the Business Card Library for data input or recall.	BUSINESS CARD
⑦	Telephone Directory key	Press this key to enter the Telephone Directory for data input or recall.	TEL
⑧	Power ON/ Clear key	• Use this key to switch power ON or to restore power after it has been switched OFF by the Auto Power OFF function. • In the Telephone Directory, Business Card Library, Memo Mode, Calendar Display and Schedule Keeper, pressing this key clears the display.	ON CLEAR
⑨	Power OFF key	Press this key to switch power OFF. Memory contents are retained even when power is switched OFF.	OFF
⑩	CAL mode key	Enters the CAL mode for arithmetic calculations.	CAL
⑪	Insert key	During data input, press this key to open a space at the current cursor position for insertion of a character between two other characters. Holding this key down inserts spaces continuously at high speed.	INS

No.	Name	Function	Key CAP
⑫	Delete key	During data input, press this key to delete the character at the current cursor position. Holding this key down deletes characters continuously at high speed.	DEL
⑬	Character keys	Use these keys to enter characters, spaces, punctuation and numbers.	
⑭	CAPS key	Press this key to shift the keyboard between upper-case and lower-case. The keyboard retains its current upper-case/lower-case setting until the CAPS key is pressed again. See page 25 for further details.	CAPS
⑮	Shift key	Press this key to shift the keyboard between upper-case and lower-case for a single character entry. This key is also used to shift the function of certain keys. See page 25 for further details.	SHIFT
⑯	Code key	Press this key to enter characters marked in blue on the keyboard. See page 25 for further details.	CODE
⑰	Mark key	Press this key to mark data to retain when you delete multiple data items.	MARK
⑱	Capacity display key	Press this key to display how much memory capacity remains available for data storage.	CAPA
⑲	Letter Memory key	Use this key to store and recall often-used 10 words and phrases.	LETTER MEMORY
⑳	Return key	Moves the cursor to the beginning of the next line.	↵
㉑	NEXT key	Completes data input for an entry, and proceeds to the next entry.	NEXT
㉒	SET key	Stores entered data into memory.	SET

No.	Name	Function	Key CAP
㉓	COMBINE key	Enters a Combine mark (C) to separate multiple text specifications for the Combined Search procedure.	COM-BINE
㉔	SEARCH key	Press to enter a search routine to look for specific data items stored in memory.	SEARCH
㉕	Time/Date key	Press this key to input values that represent hours, minutes, years, months, or dates.	TIME DATE
㉖	Cursor keys	Use these keys to move the cursor up, down, left, and right on the display.	▶ ◀ ▼ ▲
㉗	Page Up/ Page Down keys	Press this key to scroll the index display up or down, six lines at a time. Also used to scroll from data item to data item.	▼ ▲
㉘	Display Change key	Press this key to switch from an Index Display to a Data Display or from a Data Display to an Index Display.	DISPLAY CHANGE
㉙	Auto Display/ Schedule alarm key	• Following SHIFT, press this key to automatically scroll through data displays. • Press this key to set a schedule alarm.	AUTODISP SCHEDULE ALARM
㉚	Function key	Press this key to display the various function menus.	FUNCTION
㉛	Data Input/ Output key	Press this key to switch between data input (IN shown on display) and data output (IN cleared from the display).	DATA IN/OUT
㉜	Secret key	Use this key to register a password, to access the secret memory area, and to exit the secret area.	

No.	Name	Function	Key CAP
㉝	ESC key	Press this key to stop data communications or printing and to escape from the operation. This key is also used to break execution of other functions.	ESC
㉞	Key Shift key	Press this key to switch the function key menu ON and OFF when an optional IC card is being used.	KEY SHIFT
㉟	F1 ~ F5 keys	These keys are used to select functions when an optional IC card is being used.	F1 ~ F5
㊱	CARD key	This key is used to execute optional IC card functions.	CARD

Storage Capacity

SF Unit's memory

The 64K byte memory capacity includes a 56,006-byte user area. The following shows examples of what this means for the storage of data in each mode.

Telephone Directory

Approximately 2,660, under the following conditions:

8-character name
10-character telephone number

Approximately 1,330, under the following conditions:

8-character name
10-character telephone number
20-character address

Business Card Library

Approximately 620, under the following conditions:

10-character employer name
8-character personal name
10-character telephone number
10-character position
10-character department
20-character address

Approximately 680, when five business card items are stored for each employer under the conditions described above.

Memo

Approximately 2,540, 20-character memos.

Schedule Keeper

Approximately 1,860, under the following conditions:

1 item per day, 20 characters per item
30 days per month
Starting time specified, alarm time set

Approximately 2,145, under the following conditions:

1 item per day, 20 characters per item
30 days per month
Starting time specified, no alarm time

RAM card

The user area consists of 65,266 bytes out of the RAM Card's total capacity of 64KB. The following shows examples of what this means for the storage of data in each mode.

Telephone Directory

Approximately 3,100, under the following conditions:

8-character name
10-character telephone number

Approximately 1,550, under the following conditions:

8-character name
10-character telephone number
20-character address

Business Card Library

Approximately 720, under the following conditions:

10-character employer name
8-character personal name
10-character telephone number
10-character position
10-character department
20-character address

Approximately 800, when five business card items are stored for each employer under the conditions described above.

Memo

Approximately 2,960, 20-character memos.

Auto Sort Sequence

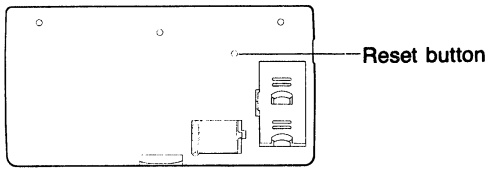
Telephone Directory data items are automatically sorted in alphabetical order according to the first letter entered for NAME.
Business Card Library data items are sorted according to the EMPLOYER entry. Data stored under each employer is further sorted according to personal names.

1	§	31	=	61	[	91	{	121	â	151	ij
2	(space)	32	>	62	\	92	¦	122	ê	152	æ
3	!	33	?	63	]	93	}	123	î	153	ç
4	”	34	@	64	^	94	~	124	ô	154	å
5	#	35	A	65	a	95	Á	125	û	155	ϕ
6	$	36	B	66	b	96	É	126	¿	156	£
7	%	37	C	67	c	97	Í	127	Ä	157	¥
8	&	38	D	68	d	98	Ó	128	Ë	158	Ω
9	’	39	E	69	e	99	Ú	129	Ï	159	a
10	(	40	F	70	f	100	À	130	Ö	160	o
11	)	41	G	71	g	101	È	131	Ü	161	×
12	*	42	H	72	h	102	Ì	132	Ã	162	÷
13	+	43	I	73	i	103	Ò	133	Õ	163	±
14	,	44	J	74	j	104	Ù	134	Ñ	164	°
15	–	45	K	75	k	105	Â	135	IJ	165	2
16	.	46	L	76	l	106	Ê	136	Æ	166	3
17	/	47	M	77	m	107	Î	137	Ç	167	μ
18	0	48	N	78	n	108	Ô	138	Å	168	½
19	1	49	O	79	o	109	Û	139	Φ	169	¼
20	2	50	P	80	p	110	¡	140	β	170	¾
21	3	51	Q	81	q	111	á	141	¶	171	f
22	4	52	R	82	r	112	é	142	¢	172	|
23	5	53	S	83	s	113	í	143	ä	173	Fr
24	6	54	T	84	t	114	ó	144	ë	174	←
25	7	55	U	85	u	115	ú	145	ï	175	→
26	8	56	V	86	v	116	à	146	ö	176	√
27	9	57	W	87	w	117	è	147	ü		
28	:	58	X	88	x	118	ì	148	ã		
29	;	59	Y	89	y	119	ò	149	õ		
30	<	60	Z	90	z	120	ù	150	ñ		

Resetting the SF Unit's Memory

Before describing the RESET operation, a note of **WARNING — *The following procedure will erase all data stored in memory, including marked data items. Be sure to perform the RESET operation only if you wish to clear all data.***

To reset the SF Unit's memory



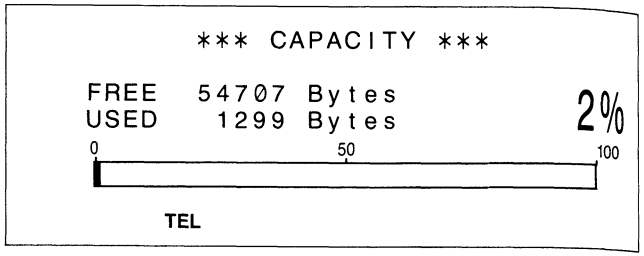
1. Ensuring that the power is switched OFF, remove the back cover after removing the three screws that hold it in place.
2. Switch power ON, and press the Reset button with thin, pointed object.
3. Replace the back cover and fasten it in place with the three screws.

Following the RESET operation, the World Time Display will appear. The initial settings of the SF Unit after reset are shown below.

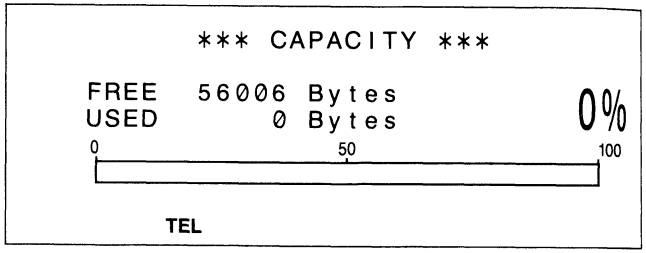
HOME TIME:	Washington D.C.
	1990-1-1 (MON)
	12:00 AM
	12-hour format
WORLD TIME:	New York
Daily Alarm:	12:00 PM
Sound:	Schedule alarm → ON
	Daily alarm → OFF
	Key → ON
DATA IN/OUT:	OUT
Character input:	CAPS

About the Memory Capacity Display

The Memory Capacity display tells you how much total memory is used for storage of Telephone Directory, Business Card Library, Memo, Calendar, and Schedule Keeper data. It also shows the percentage of total memory used, and how much total memory area remains. Press the CAPA key to check the current memory capacity.



Following the memory reset operation, the display will appear as follows.



Data Input Error Table

Message	Meaning	Action
DATA ITEM NOT FOUND !	Text specified for search does not exist.	Correct or change specified text.
PASSWORD MISMATCH !	Wrong password entered.	Enter correct password.
MEMORY FULL !	No more room in memory for storage of data.	Delete unnecessary data items from memory.
DATA ERROR ! CONSULT THE "DATA ERROR" SECTION OF THE OWNER'S MANUAL	Abnormal data caused by strong impact, static electricity, etc.	Consult the "DATA ERROR" section on page 2.

Specifications

Model: SF-9500

Data storage:

Telephone/business card/memo/schedule data storage/recall, calendar display, marker, letter memory, secret area, editing, capacity display, auto display

Clock:

Average of accuracy ± 3 seconds per day under normal temperatures; worldtime, schedule alarm, daily alarm

Calculation:

12-digit arithmetic calculations, constants for +/−/×/÷, independent memory, percentages, square roots, 24-digit approximations, date calculations, other mixed calculations

General:

Display element: 32-column × 6-line LCD
Memory capacity: 64KB (56,006 bytes)
Main component: LSI
Power supply: Main Power Supply—Two CR2032 lithium batteries
Backup Power Supply—One CR2025 lithium battery
Power consumption: 0.05W
Battery life:
Main: Approximately 75 hours (Repeated cycle of 1-minute data input into Telephone Directory followed by 10-minute display.)
Approximately 100 hours (Continuous display in Telephone Directory.)
Backup: Approximately 12 months
Auto power off: Approximately 6 minutes after last key operation
Operating temperature: 0°C ~ 40°C (32°F ~ 104°F)
Dimensions:
Unfolded: 10.6H × 168W × 170mmD ($^3/_8$″ H × $6^5/_8$″ W × $6^3/_4$″ D)
Folded: 19.8H × 168W × 85mmD ($^3/_4$″ H × $6^5/_8$″ W × $3^3/_8$″ D)
Weight: 255g (9.0 oz) including batteries

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