

CASIO®

**FP-231CE
CETL-II
OPERATION MANUAL**

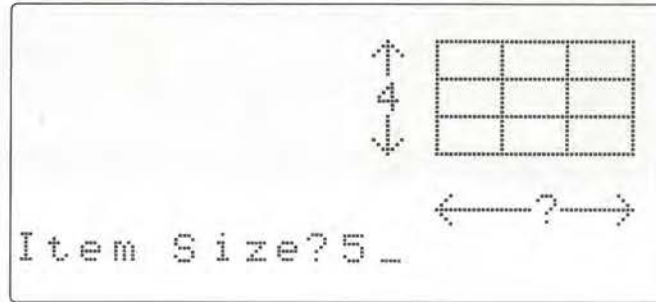
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Introduction

This new version of CETL, CETL-II, provides greater ease of operation for more effective use and extends CETL in the following two ways:

Extension 1: Graphic display when performing the **N** (New file) command.



Extension 2: Tabular format data display during the **E** (Edit) command.

| | | |
|---------|-----|----|
| GRADES | 2-3 | → |
| SUBJECT | | B |
| MATHEM | 75 | 60 |
| ENGLISH | 50 | |
| FRENCH | 45 | |
| ?55 _ | | |

This manual describes the operating procedures for CETL-II, emphasizing these two aspects. Refer to the following manuals for further details concerning CETL:
 FP-200 Reference Manual; FP-200 Operation Manual; FP-200 Command List.

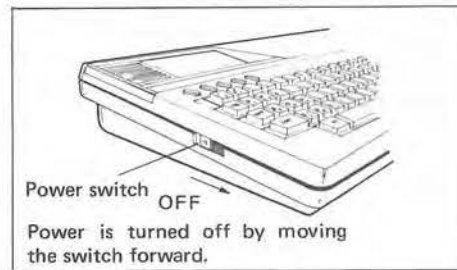
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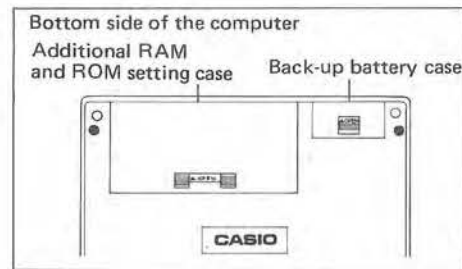
Inserting the CETL-II ROM Pack

To use CETL-II, insert the "CETL-II ROM pack" into the FP-200 computer according to the procedure described below.

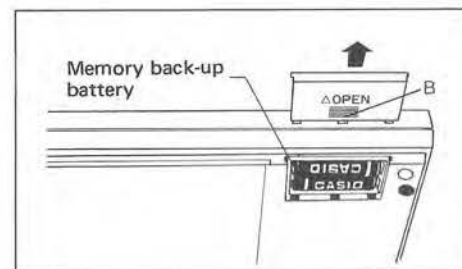
- (1) Turn off the computer power switch.



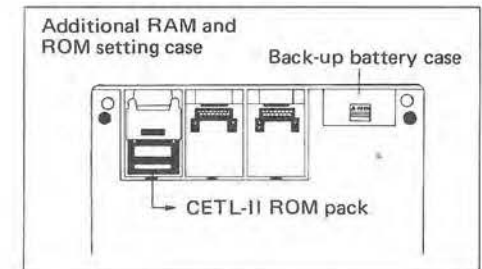
- (2) Turn the computer over.



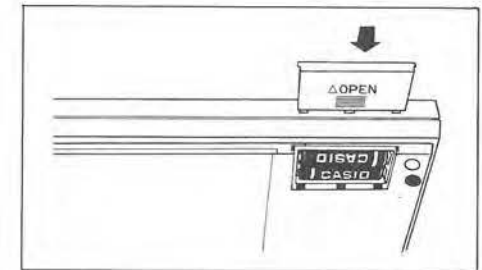
- (3) While pushing B on the right side of the bottom, slide the cover in the direction indicated by the arrow. Remove the cover and take out the back-up battery.



- (4) Remove the cover of the additional RAM and ROM setting case, using the same procedure. Insert the "CETL-II ROM pack" in the left side, then replace the cover.



- (5) Insert the back-up batteries and replace the cover. Be careful to insert the batteries with the correct polarity.

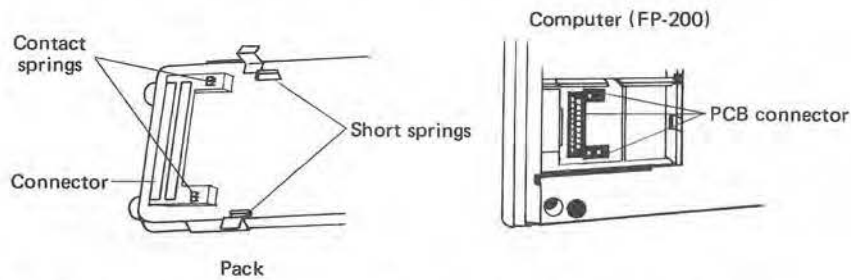


- (6) Turn on the power switch and type "RESET []".

Insertion of the CETL-II ROM pack is complete.

Notes on Handling RAM-ROM Pack

1. It is possible for the internal circuit to be destroyed by static electricity when handling the pack. Therefore, discharge the static electricity remaining in your body by touching some metal object, such as a door knob, before you touch the pack.
2. Do not touch the pack connector and the PCB connector in the computer (FP-200), since dust or fingerprints on them will cause faulty connections. Do not push down the short spring with your fingers and do not touch the contact spring; otherwise failures will occur.



3. When you insert the pack into the computer or remove it, do not forget to turn off the computer power switch and to remove the back-up battery.
4. After removing the pack, store it in the case and keep it in a place which is dust-free.

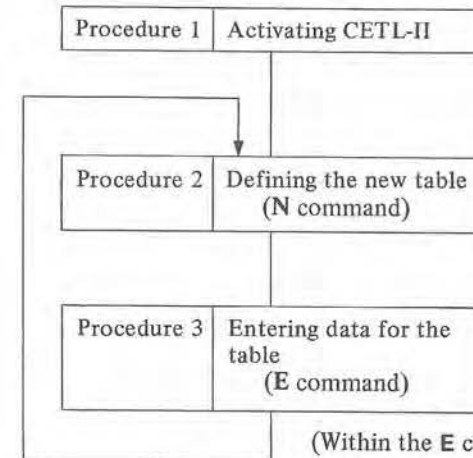
Table Creation Procedure

Let's create a table like the one shown below, using CETL-II.

Table of Grades

| | 1 | 2 | 3 | 4 | 5 |
|---------------|-----|-----|-----|---|---------|
| 0 SUBJECT | A | B | C | | AVERAGE |
| 1 MATHEMATICS | 75 | 60 | 50 | | 62 |
| 2 ENGLISH | 50 | 55 | 40 | | 48 |
| 3 FRENCH | 45 | 60 | 70 | | 58 |
| 4 TOTAL | 170 | 175 | 160 | | 168 |

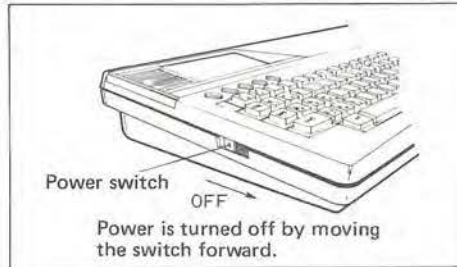
The procedure for creating a table with CETL-II is as follows.



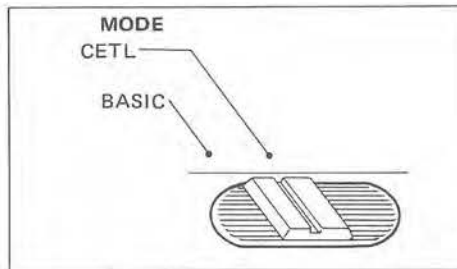
(Within the **E** command, the existing CETL functions can be used by pressing the **PF0** key.)

Activating CETL-II

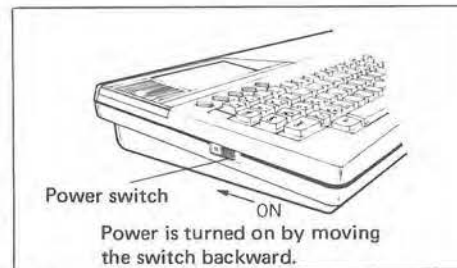
- (1) Turn off the computer power switch.



- (2) Slide the MODE switch to CETL.

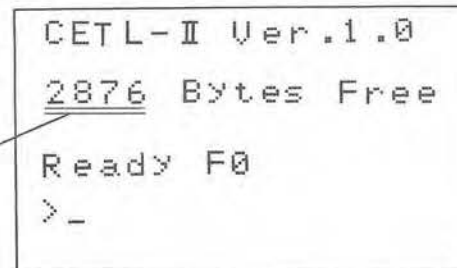


- (3) Turn on the computer power switch.



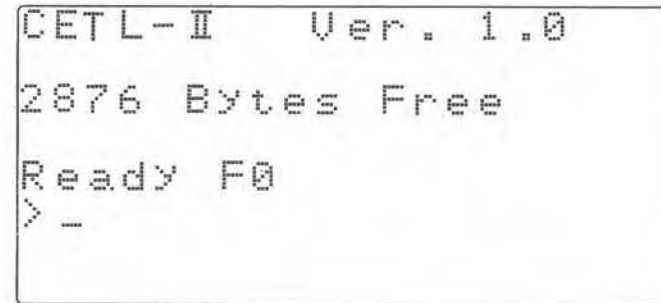
- (4) As the result of the operations shown above, the following characters are displayed on the display screen:

This value may vary when files have already been created with CETL-II or when a RAM pack (additional memory) is installed.



New table (New file) definition [N command]

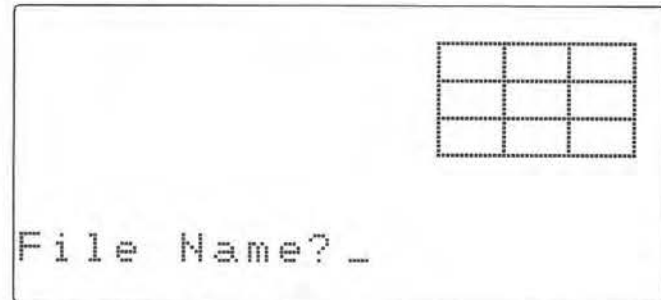
- (1) When CETL-II is started, the characters shown below are displayed on the screen.



To create a new table, enter the N command first.



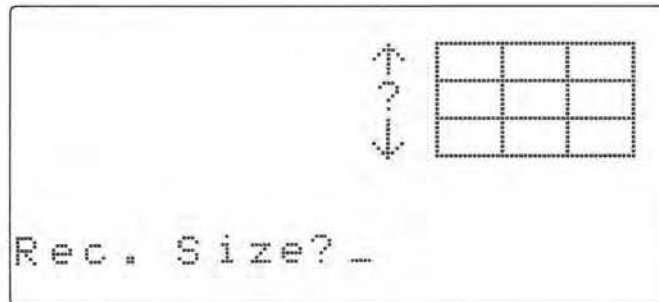
- (2) The N command specifies the title and size of the new table (new file).



- (3) After the **N** command is entered, the title of the table (File Name) must be given. Since this is a table of grades, the table is named "Grades".

G R A D E S

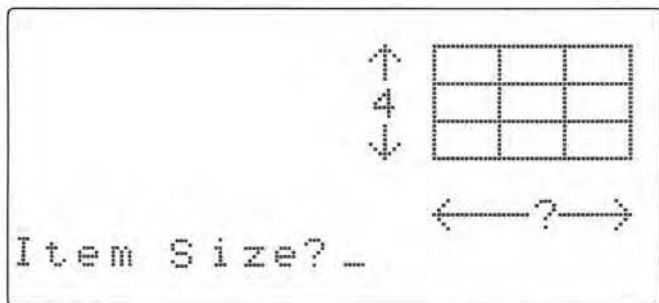
Up to eight characters can be entered as a file name, although in this example only six characters are used.



- (4) Next, the number of rows in the table (Rec. Size) must be given. Enter the number of rows, excluding the label record (row zero).

4

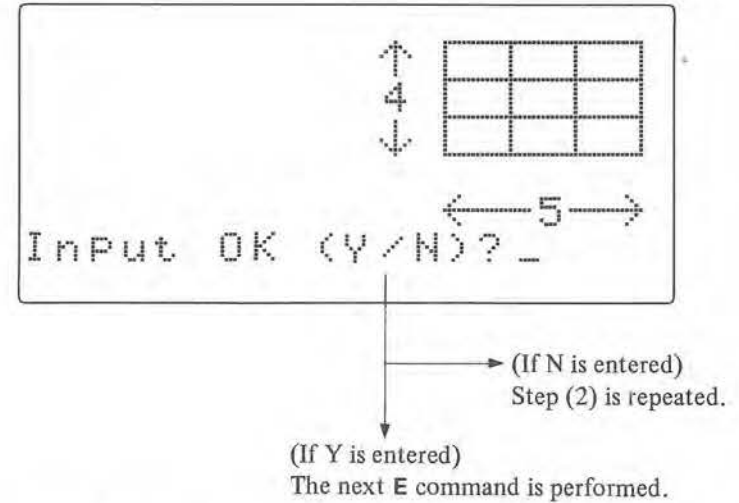
The number of rows may be between 3 and 65,535; in this example, four rows are specified.



- (5) Next, the number of items in the table (Item Size) must be given. Since there are five items, namely Subject, A, B, C, and Average, enter 5.

5

The number of items may be between 3 and 255.



- (6) The title and the size of the table to be created have now been specified. In order to modify these specifications, type:

N

Step (2) is repeated and the specifications can be modified. (Anything other than **Y** is treated as **N**.) If no corrections are necessary, type:

Y

The **N** command terminates and the next **E** command is performed.

Table data entry [E command]

| | | |
|---------|-----|---|
| GRADES | 0-1 | → |
| █ | | |
| | | |
| | | |
| Name? _ | | |

- (1) When an N command terminates or an E command is entered, the table shown above is displayed.

The title of the table, the location of the input cell (row number – item number), and the direction in which data is to be entered (→ or ↓) are displayed on the first line.

The █ mark, which indicates the location of the input cell, is displayed. Enter the corresponding data.

- (2) Enter the data for the label record (row zero) in the first item.

SUBJECT ↓

| | | |
|-----------|-----|---|
| GRADES | 0-2 | → |
| SUBJECT █ | | |
| | | |
| | | |
| Name? _ | | |

- (3) Enter the data for the label record (row zero) in the second item.

A ↓

| | | |
|-------------|-----|---|
| GRADES | 0-3 | → |
| SUBJECT A █ | | |
| | | |
| | | |
| Name? _ | | |

- (4) Enter the data for the label record (row zero) in the third item.

B ↓

| | | |
|-------------|-----|---|
| GRADES | 0-4 | → |
| SUBJECT B █ | | |
| | | |
| | | |
| Name? _ | | |

Since only three items can be displayed on the screen at a time, the data for the second item goes off the screen when the fourth item is entered. (Because the first item is used as a header, it is always displayed.)

- (5) Enter the data for the label record (row zero) in the fourth item.

C

| | | |
|---------|-----|---|
| GRADES | 0-5 | → |
| SUBJEC | C | |
| | | |
| | | |
| Name? _ | | |

- (6) Enter the data for the label record (row zero) in the fifth item.

AVERAGE

| | | |
|--------|-----|---|
| GRADES | 1-1 | → |
| SUBJEC | A | B |
| | | |
| | | |
| ? _ | | |

- (7) When data entry for a row has been completed, the input cell moves to the first item of the next row. (When the direction for data entry is →.)

- (8) Label record input has now been completed, and the subject names must be entered next. To do so, let's change the direction for data entry to ↓ from →.

Enter PF0 or CTRL[S] (type S while holding the CTRL key down).

| | | |
|------------------------------|-----|---|
| GRADES | 1-1 | → |
| SUBJEC | A | B |
| | | |
| | | |
| ABCDEF G I J K L M N P R S T | | |
| Command? _ | | |

Command menu


- (9) As the result of step (8), the sixth line of the screen displays the command menu and the system waits for a command to be entered. The A command changes the data entry direction, so type:

A

| | | |
|------------------------------|---|---|
| SUBJEC | A | B |
| | | |
| | | |
| ABCDEF G I J K L M N P R S T | | |
| Command? A | | |
| Rec/Item(R/I)? _ | | |


(10) To enter data from top to bottom (↓), type:

I 

(Alternatively, to change to →, type **R** .)

When the above step is completed, the screen changes to the following display.
 (“ ↓ ”)

| | | |
|---------------|-----|---|
| GRADES | 0-1 | ↓ |
| SUBJECT A | B | |
| | | |
| | | |
| Name: SUBJECT | | |

Now press the  key to proceed with the next entry.



| | | |
|-----------|-----|---|
| GRADES | 1-1 | ↓ |
| SUBJECT A | B | |
| | | |
| | | |
| ? _ | | |

(11) Enter the data for the first row in the first item.

M A T H E M A T I C S 

| | | |
|-----------|-----|---|
| GRADES | 2-1 | ↓ |
| SUBJECT A | B | |
| MATHEM | | |
| | | |
| ? _ | | |

(12) Enter the data for the second row in the first item.

E N G L I S H 

| | | |
|-----------|-----|---|
| GRADES | 3-1 | ↓ |
| SUBJECT A | B | |
| MATHEM | | |
| ENGLIS | | |
| | | |
| ? _ | | |

(13) Enter the data for the third row in the first item.

F R E N C H 

| | | |
|-----------|-----|---|
| GRADES | 4-1 | ↓ |
| SUBJECT A | B | |
| ENGLIS | | |
| FRENCH | | |
| | | |
| ? _ | | |

Since only three rows of data can be displayed on the screen at one time, the first row of data goes off the screen when the fourth row of data is entered. (The label record is always displayed.)

- (14) Enter the data for the fourth row the first item.

TOTAL

| | | |
|---------|-----|---|
| GRADES | 0-2 | ↓ |
| SUBJECT | B | |
| MATHEM | | |
| ENGLIS | | |
| FRENCH | | |
| Name: A | | |

- (15) When data entry for the first item is completed, the input cell moves to the label record (row zero) of the next item. (When the data entry direction is ↓.)

If data is already contained in the input cell, the contents of the cell are displayed at the right of the on the bottom of the screen. If it need not be changed, simply press key.

If the data is to be changed, perform the necessary correction by moving the cursor to the character to be changed, using the cursor keys (,).

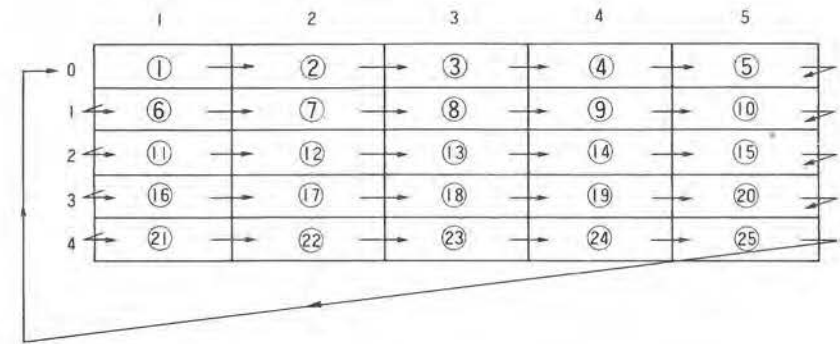
The key can also be used.

- (16) Proceed with data entry.

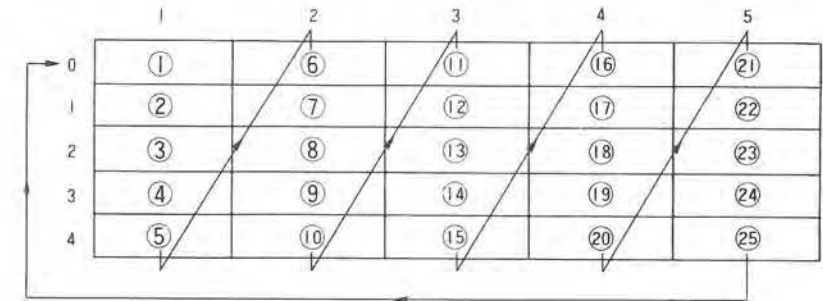
- (17) The type, expression, and format of the label record can be specified by typing . (See pages 22 and 23.)

In summary, the order of data entry is as illustrated in the below figures.

Data entry direction →



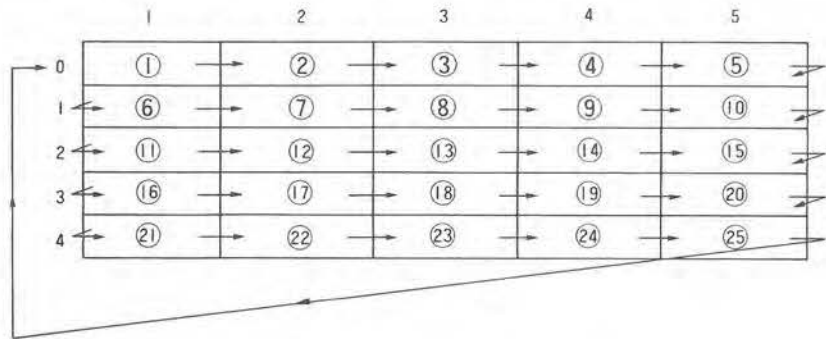
Data entry direction ↓



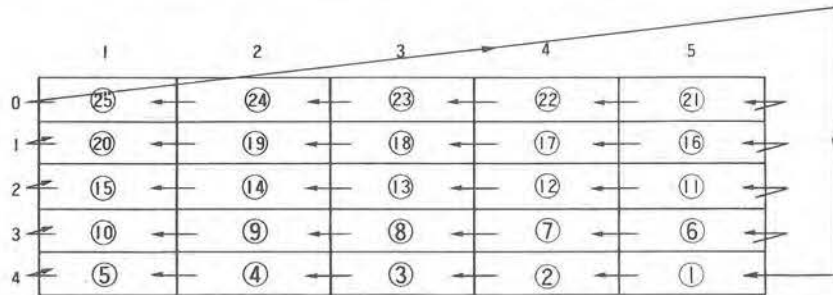
Data correction with CETL-II

In CETL-II, to correct data that has already been entered, use the following keys to move the current cell (marked ■) to the cell to be changed and perform the necessary correction using the E instruction.

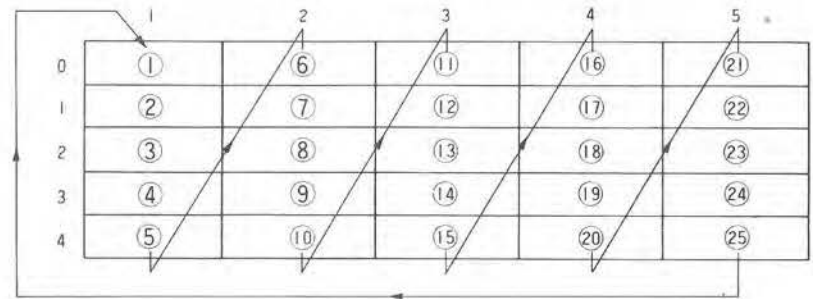
SHIFT **→** (or **CTRL** **T**) Move the input cell to the right



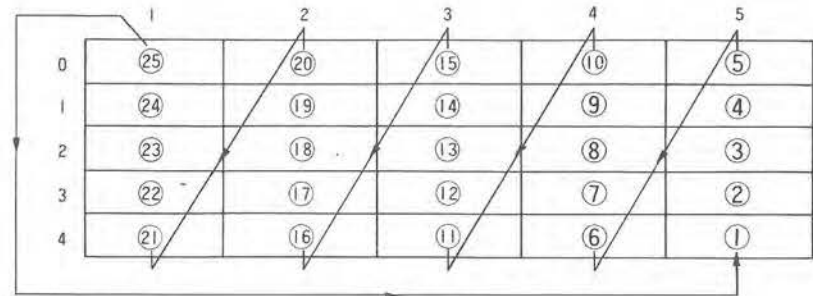
SHIFT **←** (or **CTRL** **U**) Move the input cell to the left



SHIFT **↓** (or **CTRL** **W**) Move the input cell down.



SHIFT **↑** (or **CTRL** **V**) Move the input cell up.



Screen display during CETL E command

| | | | |
|--------|-----------|-----|---|
| Line 1 | GRADES | 2-2 | ↓ |
| Line 2 | SUBJECT A | | B |
| Line 3 | MATHEM | 75 | |
| Line 4 | ENGLIS | ■ | |
| Line 5 | FRENCH | | |
| Line 6 | | | |
| Line 7 | | | |
| Line 8 | | | |

Display contents

- Line 1
- Title of table (File name), at most eight characters long.
 - Row number (record number) of the input cell.
 - Item number of the input cell.
 - Data entry direction (→ or ↓).
- Line 2
- Displays the data for the label record (row zero) of the table.
 - The first item of the label record is always displayed at the left.
- Line 3 ~ 5
- Displays the data after the label record.
 - The data for the first item is displayed at the left.
- Line 6
- The following command menu (list of commands) is displayed when **PF0** or **CTRL[S]** is pressed.
- **A B C D E F G I J K L M N P R S T**

- Line 7
- During normal data entry, “ ? ” (“Name?” for the label record (row zero)) and the data in the input cell are displayed. The data being entered is also displayed on this line. If data already exists, “ : ” is displayed instead of “ ? ”.
 - When **PF0** or **CTRL[S]** is pressed, “Command?” is displayed and a command may be entered.
 - An error message is displayed when an error occurs.
 - When **CTRL[B]** is pressed, “Type N/S”, “Expression”, and “Format” are displayed, in that order, and the label record can be entered.

Entering Label Records in CETL-II

- (1) In the label record entry previously described, only the item names (such as Subject, A, or B) were entered. However, the Type, Expression, and Format can be specified using the following procedure.

First, move the input mark (marked as ■) to the cell in the label record for which the type, etc., is to be specified.

| | | |
|---------------|-----|---|
| GRADES | 0-1 | → |
| ■SUBJECTA | B | |
| MATHEM | | |
| ENGLIS | | |
| FRENCH | | |
| Name: SUBJECT | | |

Enter: **CTRL** **B**

| | | |
|---------------|-----|---|
| GRADES | 0-1 | → |
| ■SUBJECTA | B | |
| MATHEM | | |
| ENGLIS | | |
| FRENCH | | |
| Type(N/S) : N | | |

- (2) Specify the Type, Expression, and Format, in that order, according to the screen display.

S **↵**

| | | |
|----------------|-----|---|
| GRADES | 0-1 | → |
| ■SUBJECTA | B | |
| MATHEM | | |
| ENGLIS | | |
| FRENCH | | |
| Expression ? _ | | |

↵

| | | |
|------------|-----|---|
| GRADES | 0-1 | → |
| ■SUBJECTA | B | |
| MATHEM | | |
| ENGLIS | | |
| FRENCH | | |
| Format ? _ | | |

& **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **SPC** **&** **↵**

Error Displays in CETL-II

- (1) If an error occurs during CETL-II operation, an error message is displayed on the seventh line, the screen is scrolled up one line, and the system waits for a command to be entered.

```

GRADES          1-2          ↓
SUBJECTA      A          B
MATHEM        █
ENGLIS
FRENCH
ABCDEFGHIJKLMNPRST
Command? L
    
```

```

ENGLIS|
FRENCH|
-----|
ABCDEFGHIJKLMNPRST
Command? L

NR Error
Ready F0
> _
    
```

Example: An "NR" error occurred during the L command because the printer was offline.

After an error occurs, the mode changes from CETL-II mode to CETL mode. In addition, the following operations also return to CETL mode.

- (a) Mode change by the mode switch.
- (b) The **BREAK** key is pressed.
- (c) The **STOP** key is pressed.

- (2) In order to return to the CETL-II mode, enter an E command.

E ↵

```

GRADES          1-2          ↓
SUBJECTA      A          B
MATHEM        █
ENGLIS
FRENCH
? _
    
```

Restores the status existing before the error occurred.