

# 5100 MINI KEYBOARD USER'S MANUAL

Feb. 20, 1992

Version 1.01

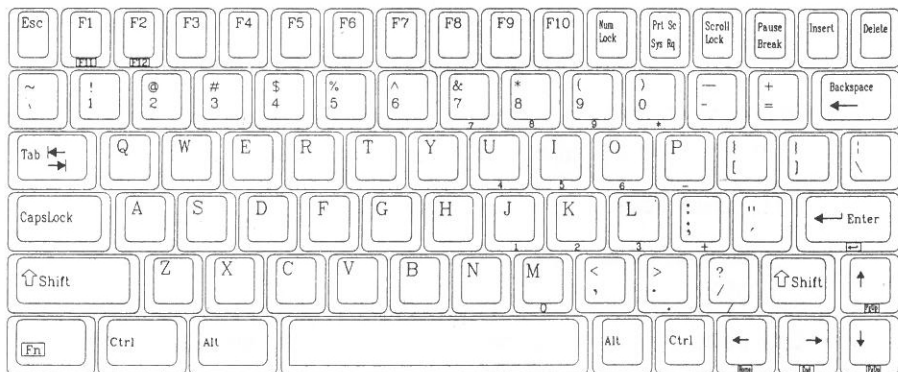
This keyboard is an 80/81 key mini-keyboard. It features:

- IBM AT and PS/2 101/102 keys enhanced keyboard compatible. The XT function is per order request.
- 12 function keys.
- Separate SCROLL LOCK, NUM LOCK, and CAPS LOCK LED indicators.
- Embedded numeric keypad with cursor- and screen-control capabilities.
- Special FN key for accessing the cursor- and screen-control keys, F11 and F12 key functions, and embedded numeric keypad.

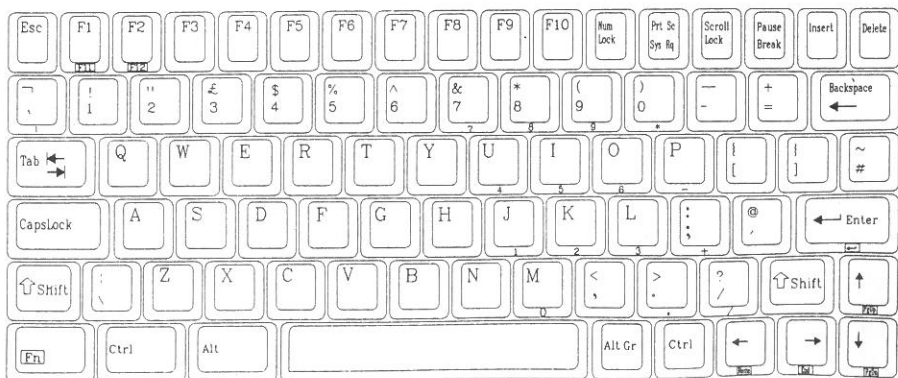
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# KEYBOARD LAYOUT

## U.S. ENGLISH



## U.K.

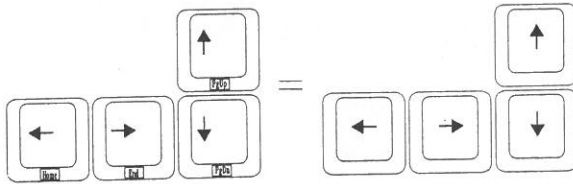


## FN Key

The FN key is used with the cursor-control keys, the F1 and F2 keys, and the embedded numeric keypad to provide several functions. The following sections will give you more usages about this key. **Note:** The FN key is active only when it is being pressed. As soon as it is released, it becomes inactive.

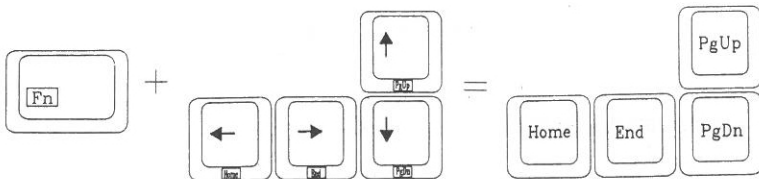
## Cursor-Control Keys

The cursor-control keys move the cursor one space or line at a time. Directional arrows on the keys indicate which way the cursor moves: up, down, left, or right. The keys are illustrated below.



When the cursor-control keys are used with the FN key, they become screen-control keys. The screen-control keys – PgUp, PgDn, Home, End – are defined by the application and typically move the cursor a screen up or down, to the beginning or end of a screen, or to the beginning or end of a line.

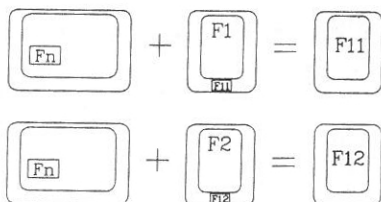
To enable the screen-control keys, press and hold the FN key when pressing the key for the desired screen-control function. The key combinations are illustrated below.



## F11 and F12 Key Functions

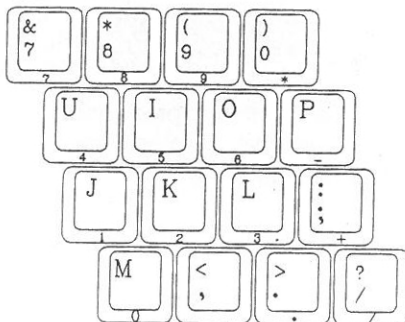
To enable the F11 function, press and hold the FN key when pressing the F1 key. To enable the F12 function, press and hold the FN key when pressing the F2 key.

The key combinations are illustrated below.



## Embedded Numeric Keypad

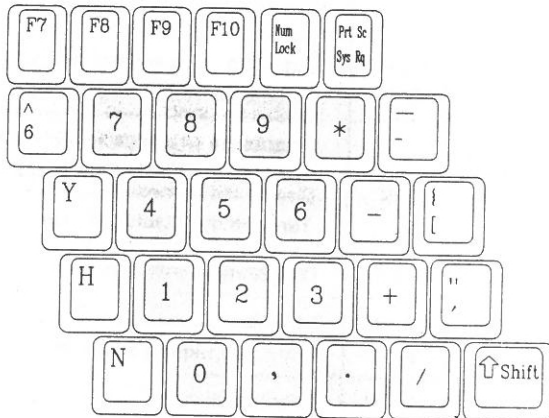
The embedded numeric keypad consists of 16 keys.



The embedded keypad functions in two ways:

- As a numeric keypad.
- As a part of the main keyboard.

## Accessing the Embedded Numeric Keypad Functions



The embedded numeric keypad and related functions are accessed in two ways:

1. With the NUM LOCK toggle key, which activates the numeric keypad.  
When the NUM LOCK key is on, the NUM LOCK LED indicator is lit.
2. With the FN and SHIFT keys, which are used in conjunction with the NUM LOCK key to provide related functions.

The use of these keys, as shown in the following chart, depends on if the embedded numeric keypad is enabled (NUM LOCK function on) or disabled (NUM LOCK function off).

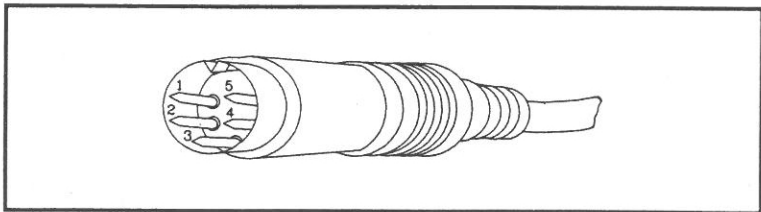
| Accessing Embedded Numeric Keypad Functions |              |   |
|---|--------------|---|
| When NUM LOCK is:                           | Press:       | To:   |
| OFF   | NUM LOCK     | Enable the embedded numeric keypad.<br>Lights the NUM LOCK LED indicator.     |
| ON  | NUM LOCK     | Disable the embedded numeric keypad.<br>Turns off the NUM LOCK LED indicator. |
| ON  | FN*          | Temporarily enable the main keyboard.   |
| ON  | FN* + SHIFT* | Temporarily enable uppercase function of the main keyboard.                   |
| OFF   | FN* + SHIFT* | Temporarily enable the embedded numeric keypad.                               |

\* Press and hold the key(s) during operation. When the key is released, the operation reverts to the original keyboard status.

## KEYBOARD CABLE CONNECTOR

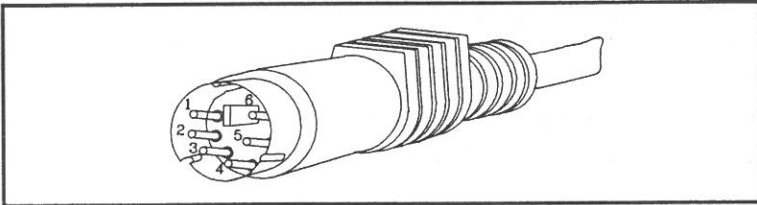
### PC/ AT Compatible Cable (5-pin Din Connector)

| Pin# | Signal Name    | Voltage      |
|------|----------------|--------------|
| 1    | Keyboard Clock | +5VDC Signal |
| 2    | Ground         | 0            |
| 3    | Keyboard Data  | +5VDC Signal |
| 4    | Power Supply   | +5VDC        |
| 5    | No Connection  |              |



**PS/2 Compatible Cable**  
(6-pin Miniatures Din Connector)

| Pin# | Signal Name    | Voltage      |
|------|----------------|--------------|
| 1    | Keyboard Clock | +5VDC Signal |
| 2    | Ground         | 0            |
| 3    | Keyboard Data  | +5VDC Signal |
| 4    | Reserved       | 0            |
| 5    | +5VDC          | +5VDC        |
| 6    | Reserved       | 0            |



## TECHNICAL DATA

### POWER REQUIREMENT

+5 VDC @240 mA nominal

### ENVIRONMENTAL DATA

Operating temperature : 0°C to 55°C  
Relative humidity : 20% to 95% non-condensing  
Altitude : -1000 ft. to 10000 ft.

### MECHANICAL DATA

Total Travel : 3.9 +/- 0.5 mm  
Pretravel : 1.9 +/- 0.5 mm  
Operating Life : 10 mega cycles min. per key  
Peak Load before Make (normal key) : 55 +/- 20 grams  
Length : 297 mm  
Width : 152 mm  
Height : 30 mm  
Weight : 0.7 kg

# FEDERAL COMMUNICATION COMMISSION GUIDELINES

**Warning:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Information to User:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



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