

Using Special Mode

Your Mobile Printer has two operation modes:

- The Normal mode is used for daily operations like paper handling and printing as explained in Chapter 2, “Paper Handling,” and Chapter 3, “Printing.”
- The Special mode is used to change the printer settings.

The following table summarizes the purpose of each function.

Special Mode Functions

| <i>Function</i> | <i>Purpose</i> |
|--|--|
| Setup Mode | Change the Printer setting |
| Print Configuration | Print the Printer Configuration To check your settings by printing a list of all the printer's currently selected values. |
| Printing Test | Run the printing test |
| Hex Dump Mode | Hex-dump allows you to determine whether the computer is sending the correct commands to the printer |
| Printing Alignment Adjustment | Perform adjustment Bi-directional alignment |
| Top Adjustment | Change the top-of-form fine adjustment |
| Setting of The First Dot Position on The Left Side | Change the left margin fine adjustment |
| Menu-Access | Restricts access to Set-Up functions from the control panel |
| Setting Setup Mode to Default Value (Standard) | Resets factory settings in MACRO and INSTALL for standard |
| Setting Setup Mode to Default Value (6820) | Resets factory settings in MACRO and INSTALL for 6820 |

Entering Special Mode

To enter Special mode:

1. Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
2. Turn the printer off.
3. Turn the printer back on while pressing each buttons.

| <i>Function</i> | <i>Load/FF</i> | <i>Park</i> | <i>Alt</i> | <i>Ready/ Clear</i> |
|---|----------------|-------------|------------|-------------------------|
| Setup Mode | | | | • |
| Print Configuration | | | • | |
| Printing Test | • | | | |
| Hex Dump Mode | | | • | • |
| Printing Alignment Adjustment | • | | | • |
| Top Adjustment | | • | | |
| Setting of The First Dot Position on The Left Side | • | | • | • |
| Menu-Access | • | • | • | |
| Setting Setup Mode to Default Value (Standard) | | • | | • |
| Setting Setup Mode to Default Value (6820) | | • | • | |

Set-Up Mode Function

The Set-Up mode allows you:

- To define a user environment, Macro, which is a printer operating environment for your application software. The printer operating environment includes the emulation, font, horizontal and vertical pitches, page length and margins, line mode, and printing direction. It also includes emulation dependent options like the character set.
- To define general installation parameters related to the integration in your environment (e.g., menu language, tear-off control, auto-load control, and interface).
- To recall all the factory settings (including the user environment and installation parameters,).
- To define what kind of settings modifications are allowed to avoid accidentally changing of Set-Up values.

Note: You may want to use the flowchart at the end of this chapter for quick reference. The flowchart lists all printer Set-Up functions, options, and values.

How Set-Up Works

The Set-Up mode consists of Set-Up functions which correspond to the printer settings described in the previous page. Each function generally has many options which correspond to the print features to be changed. Each option includes many parameters values to be selected. All the Set-Up functions, options, and values are printed in a logical sequence on the paper when you enter the Set-Up mode, including the usage of buttons. You can perform all the Set-Up operations by using buttons on the control panel in the following order:

- Navigating through the option menu structure.
- Selecting a new value for an option.
- Saving your new printer configuration (permanently or temporarily).

Entering the Set-Up Mode

To enter the Set-Up mode:

1. Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
2. Turn the printer off.
3. Turn the printer back on while pressing the READY button.

| Set-Up Mode | |
|--------------|--|
| Buttons | Set-Up Action |
| 1 | |
| NEXT | Move cursor Down to the next Function or Value |
| PREVIOUS | Move cursor Up to the next Function or Value |
| ALT-NEXT | Select the Option or Value and Move cursor Right |
| ALT-PREVIOUS | Select the Option or Value and Move cursor Left |
| SETUP/EXIT | Select the Option or value and Move to SAVE&EXIT |
| 2 | |
| <FUNCTIONS> | |
| MACRO | |

The initial printout contains a header, help menu **1**, and <Function> menu **2**. The header tells you that the printer is in the Set-Up mode. The help menu provides a quick summary of how to use buttons in the Set-Up mode.

The <FUNCTIONS> menu **2** is started from MACRO.

Overview of the Set-Up Mode

Your Mobile Printer has five functions menu in setup mode.

When you press the NEXT KEY or PREVIOUS KEY, the following next or previous <FUNCTIONS> menu is printed:

```
<FUNCTIONS>
MACRO
INSTALL
SAFE PANEL
RCALL-FACT
SAVE&EXIT
```

The following table summarizes the purpose of each function.

Set-Up Mode Functions

| Function | Purpose |
|------------|---|
| MACRO | Assigns print features to MACRO |
| INSTALL | Changes the Set-Up menu language, computer interface, and paper feed control options |
| SAFE PANEL | REDY, PARK and LOAD require the ALT key to be used as a two key operation for these functions |
| RCALL-FACT | Resets factory settings in MACRO and INSTALL |
| SAVE&EXIT | Exits the Set-Up mode and saves any changes made in the Set-Up mode |

Using Set-Up Mode

To select a function from the <FUNCTIONS> menu:

1. Repeatedly press the NEXT button or the PREVIOUS button to position the function you require.
2. Press the ALT-NEXT button or the ALT-PREVIOUS button to select the function. The printer prints the first option. The MACRO, INSTALL and SAFE PANEL functions contain options that have selectable values. The other functions have neither options nor values. Repeatedly press the NEXT button or the PREVIOUS button to position the option you require.

The first four Macro options are shown below.

```
<FUNCTIONS>
MACRO
    <EMULATION>
    <EMUL SERIAL>
    <EMUL USB>
    <EMUL WIRELESS>
```

3. Press the ALT-NEXT button or the ALT-PREVIOUS button to select the option. The printer prints the first value. Repeatedly press the NEXT button or the PREVIOUS button to position the value you require.

The EMUL WIRELESS values are shown below.

```
<FUNCTIONS>
MACRO
    <EMULATION>
    <EMUL SERIAL>
    <EMUL USB>
    <EMUL WIRELESS>
        EPSON-EP2
        IBM2390+
```

The current option and its values are reprinted when the ALT-PREVIOUS button is released.

Options with Pre-determined Values

For some options, you can choose among a limited set of pre-determined values. To select such a value:

1. Repeatedly press the NEXT button or the PREVIOUS button to position the value you require.
2. Press the ALT-PREVIOUS button to select the value. The printer prints the current option.
3. After selecting the desired values, press the SETUP/EXIT button to reprint the <FUNCTIONS> SAVE&EXIT.

Example: Changing the Vertical Pitch

To become familiar with the Set-Up mode, try the following example. This example shows how to change the vertical pitch in Macro from 6 lines per inch to 8 lines per inch.

1. Enter the Set-Up mode.

Turn the printer off and back on while pressing the READY button.

2. Select the Macro function.

Wait for the printer to stop printing and press the ALT-NEXT button to select the Macro function and print the <EMULATION> option.

3. Print the menu of the vertical pitch option.

Since you only want to change the vertical pitch, press the NEXT button repeatedly until the <VERT PITCH> option is printed. Press the ALT-NEXT button to select the <VERT PITCH> option and print its values.

4. Change the vertical pitch from 6 to 8 lines per inch.

Press the NEXT button once to position the 8 LPI. Press the ALT-PREVIOUS button to select 8 LPI. The option < VERT PITCH > is printed.

5. Exit the Macro function.

Since you do not want to make any other changes in MACRO, press the SETUP/EXIT button. The <FUNCTIONS> SAVE&EXIT is reprinted.

6. Exit the Set-Up mode, saving the new vertical pitch.

Press the SETUP/EXIT button or the ALT-NEXT button or the ALT-PREVIOUS button to save 8 lines per inch as the new power-on default in Macro , and then exit Macro.

Press the SETUP/EXIT button again then the printer exits the Set-Up mode and returns to the Ready state. These settings remain in effect until the next time they are changed.

Options with Undetermined Values

For some options, you can choose among a continuous range of many values. These options are identified as follows

- <XXX-No of INCH>, which means the unit of the range is the Inch.
- <XXX-No of COLM>, which means the unit of the range is the Column.
- <XXX-No of LINE>, which means the unit of the range is the Line.

Example: Changing the Left Margin

This example shows how to change the left margin in Macro from column 1 to column 20.

1. Enter the Set-Up mode.

Turn the printer off and back on while pressing the READY button.

2. Select the Macro function.

Wait for the printer to stop printing. Then press the ALT-NEXT button to select the Macro function options.

3. Print the menu of the left margin option.

Since you only want to change the left margin, press the NEXT button or the PREVIOUS button until the <LEFT MARGN> option is printed. Press the ALT-NEXT button to select the < LEFT MARGN > option and print its values.

4. Change the left margin from column 1 to column 20.

Press and hold the NEXT button nineteen times. When the button is released, the new value is printed next to the current value. If the new value is not 20 COL, repeat this operation. If it is 20 COL, press the ALT-NEXT button to select 20 COL. 20 COL is underlined, and the next option value is printed.

5. Exit the Macro function.

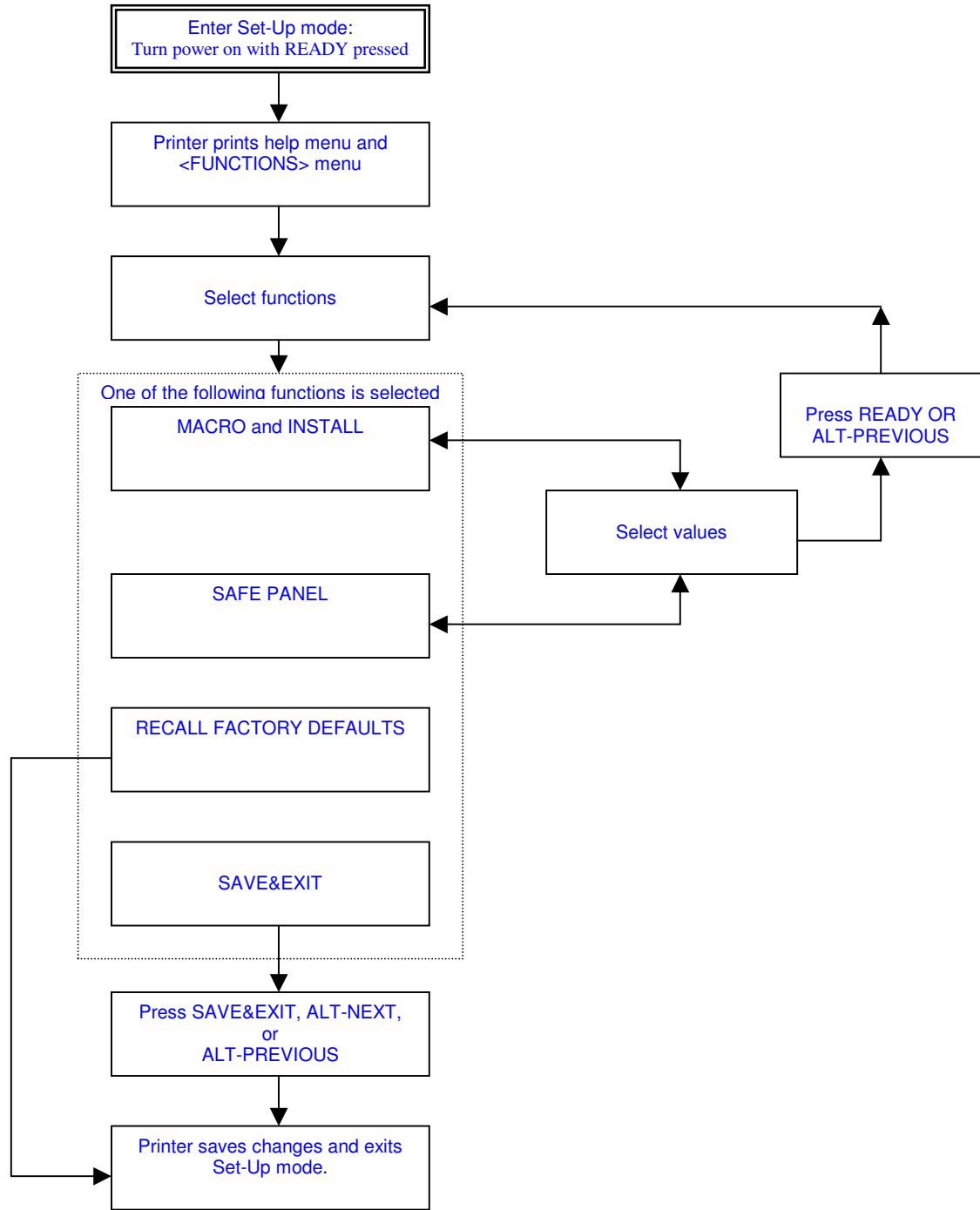
Since you do not want to make any other changes in MACRO, press the SETUP/EXIT button. The <FUNCTIONS> SAVE&EXIT menu is then reprinted.

6. Exit the Set-Up mode, saving the new left margin.

Press the SETUP/EXIT button or the ALT-NEXT button or the ALT-PREVIOUS button to save 20 columns as the new power-on default in Macro and exit Macro.

Press the SETUP/EXIT button again then the printer exits the Set-Up mode and returns to the Ready state. These settings remain in effect until the next time they are changed.

The chart on the next page summarizes how to select options such as emulation and font and how to use the functions that do not have options.



Points to Remember

- We recommend that you use continuous forms paper for printing in the Set-Up mode because the output will exceed a single page. To load paper, use the FF/Load button.
- Whenever you enter the Set-Up mode, short help menus are printed at the top of the page. Use the help menus for quick reference while in the Set-Up mode.
- When printing the option for each function, you can move either forward or backward in the option list. To move forward (print the next option), press the NEXT button. To move backward (print the previous option), press the PREVIOUS button.
- While in the <FUNCTIONS> menu or when selecting a function that contains options and selectable values, press the SETUP/EXIT button to reprint the <FUNCTIONS> menu SAVE&EXIT.

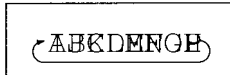
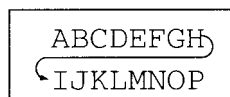
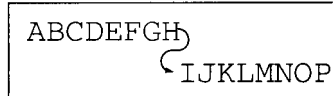
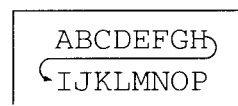
Macro Options and Values

- Overprinted values are the factory settings.
- Some settings are overridden by commands from the computer.
- Options that differ by emulation are described at the end of the table.

| MACRO Options | Description |
|---|---|
| <EMULATION> EPSON-EP2 IBM 2390+ 6820 PORT DEPEND | Select the same emulation as that selected by your software. See step 6, "Connecting the Printer to Your Host System," in the <i>Installation Guide</i> for information on selecting an emulation. Epson printers using the EP2 emulation IBM 2390+ printers 6820 mode (Standard model doesn't support this functions) The printer selects emulation according to the active interface (such as serial, USB). See the next options. |
| <EMUL SERIAL> EPSON EP2 IBM 2390+ 6820 | Select an emulation for the Serial interface. This is invalid and skipped when PORT DEPEND is not selected for the <EMULATION> option. EP2 (factory setting) IBM Proprinter 2390+ printers Not valid in Standard model |
| <EMUL USB> EPSON EP2 IBM 2390+ 6820 | Select an emulation for USB interface. This is invalid and skipped when PORT DEPEND is not selected for the <EMULATION> option. EP2 (factory setting) IBM Proprinter 2390+ printers Not valid in Standard model |

| MACRO Options | Description |
|---|--|
| <p data-bbox="237 243 477 264"><EMUL WIRELESS></p> <p data-bbox="428 344 571 443">EPSON EP2 IBM 2390+ 6820</p> | <p data-bbox="704 243 1382 331">Select an emulation for the Wireless interface. This is invalid and skipped when PORT DEPEND is not selected for the <EMULATION> option.</p> <p data-bbox="704 344 1058 443">EP2 (factory setting) IBM Proprinter 2390+ printers Not valid in Standard model</p> |
| <p data-bbox="237 464 492 485"><EMUL BLUETOOTH></p> <p data-bbox="428 564 571 663">EPSON EP2 IBM 2390+ 6820</p> | <p data-bbox="704 464 1382 552">Select an emulation for the Bluetooth interface. This is invalid and skipped when PORT DEPEND is not selected for the <EMULATION> option.</p> <p data-bbox="704 564 1058 663">EP2 (factory setting) IBM Proprinter 2390+ printers Not valid in Standard model</p> |
| <p data-bbox="237 680 331 701"></p> <p data-bbox="428 781 509 802">DRAFT</p> <p data-bbox="428 852 542 873">COURIER</p> <p data-bbox="428 890 509 911">ROMAN</p> <p data-bbox="428 928 587 949">SANS SERIF</p> <p data-bbox="428 966 526 987">SCRIPT</p> <p data-bbox="428 1003 493 1024">BOLD</p> <p data-bbox="428 1041 526 1062">GOTHIC</p> <p data-bbox="428 1079 558 1100">PRESTIGE</p> <p data-bbox="428 1117 526 1138">ORATOR</p> <p data-bbox="428 1155 509 1176">OCR-A</p> <p data-bbox="428 1192 509 1213">OCR-B</p> | <p data-bbox="704 680 1365 768">Select a font to be active when the power is turned on. For fixed-spaced fonts, be sure to change the horizontal pitch as well.</p> <p data-bbox="704 781 1365 835">Draft font (lower resolution than letter quality, 3 times the speed of letter quality)</p> <p data-bbox="704 852 850 873">Courier font</p> <p data-bbox="704 890 867 911">ROMAN font</p> <p data-bbox="704 928 883 949">Sans Serif font</p> <p data-bbox="704 966 834 987">Script font</p> <p data-bbox="704 1003 818 1024">Bold font</p> <p data-bbox="704 1041 850 1062">Gothic font</p> <p data-bbox="704 1079 867 1100">Prestige font</p> <p data-bbox="704 1117 883 1138">ORATOR font</p> <p data-bbox="704 1155 850 1176">OCR A font</p> <p data-bbox="704 1192 850 1213">OCR B font</p> |
| <p data-bbox="237 1251 639 1272"><HORIZONTAL PITCH> ## CPI</p> | <p data-bbox="704 1251 1094 1306">10,12, 15, 17, 20 or 24 (characters per horizontal inch)</p> |
| <p data-bbox="237 1327 639 1348"><VERTICAL PITCH> ## LPI</p> | <p data-bbox="704 1327 1013 1381">1,2, 3, 4, 5, 6, 7, 8, or 12 (lines per vertical inch)</p> |
| <p data-bbox="542 1402 656 1423">## LPCM</p> | <p data-bbox="704 1402 964 1457">1, 2, or 4 (lines per centimeter)</p> |
| <p data-bbox="237 1478 428 1499"><FORM LENGH></p> <p data-bbox="428 1558 574 1579">## INCHES</p> <p data-bbox="428 1617 591 1638">No of LINE</p> | <p data-bbox="704 1478 1365 1533">Specify the length of the page in inches or by the number of lines per page.</p> <p data-bbox="704 1549 1321 1604">3, 3.5, 4, 5.5, 6, 7, 8, 8.5, 11 (Letter size), 11 2/3 (A4 size), 12, 14, or 15</p> <p data-bbox="704 1621 997 1675">1 to 126 (66) Number of lines per page</p> |
| <p data-bbox="237 1692 428 1713"><LEFT MARGN></p> <p data-bbox="428 1793 591 1814">No of COLM</p> | <p data-bbox="704 1692 1354 1780">Specify the left margin by the number of the left column (see "Print Area Definition" in Chapter 2, "Paper Handling.")</p> <p data-bbox="704 1793 1013 1848">1 to 256 Number of the left column</p> |
| <p data-bbox="237 1864 444 1885"><TOP OF FORM></p> | <p data-bbox="704 1864 1382 1885">Specify the top of form in 1/60 inches. See "Print Area</p> |

Using Set-Up Mode

| MACRO Options | Description |
|--|--|
| <p>## /60 IN</p> | <p>Definition” in Chapter 2, “Paper Handling.”</p> <p>0 to 99</p> <p>Number of 1/60 inches</p> |
| <p><IGNORE FF></p> <p>NO</p> <p>YES</p> | <p>Specify whether to ignore a form feed when the current position is at the top of a form.</p> <p>Always perform a commanded form feed.</p> <p>Ignore the form feed when at the top of a form.</p> |
| <p><TOP MARGIN></p> <p>## LINES</p> | <p>Specify the number of the top line. See “Print Area Definition” in Chapter 2, “Paper Handling.”</p> <p>1 to 126 (66)</p> |
| <p><BOTTOM MRG></p> <p>## LINES</p> | <p>Specify the number of the bottom line. See “Print Area Definition” in Chapter 2, “Paper Handling.”</p> <p>1 to 256 (66)</p> <p>Number of the bottom line</p> |
| <p><LINE MODE></p> <p>CR=CR</p> <p>CR=LF+CR</p> <p>LF=LF</p> <p>LF=LF+CR</p> | <p>Specify the effect of CR (Carriage Return) and LF (Line Feed) codes.</p> <p>CR=CR: No line feed is added to a carriage return</p>  <p>CR=LF+CR: A line feed is added to each carriage return.</p>  <p>LF=LF: No carriage return is added to a line feed.</p>  <p>LF=LF+CR: A carriage return is added to each line feed.</p>  |
| <p><PRINT DIR></p> <p>UNIDIR</p> | <p>Unidirectional printing. Unidirectional printing is used for printing that needs precise vertical alignment. Unidirectional printing is slower than bi-directional</p> |

| MACRO Options | Description |
|--|--|
| BIDIR SOFT CONTROL (Software Control) | printing. Bi-directional printing. The printer prints in either direction while seeking the next print direction for a shorter print time. The unidirectional command is ignored. The print direction follows a command from the computer. If no command is sent, print direction is bi-directional. |
| =IBM&EPSON===== | The following are the Set-Up options for the IBM and EPSON emulation only. |
| <CODE PAGE> Code Page | Selects the character set. Character sets can be used according to the selected emulation. 437, 850, 860, 863, 865, 851, 852, 853, 855, 857, 866, 869, USSR GOST, 864, 437G, 920, 858, 923 |
| =IBM DEFLT===== | The following are the Set-Up options for the IBM Proprinter 2390+ emulation only. |
| <IBM SET 1/2> IBM SET 1 IBM SET 2 | Specify a character set of the IBM Proprinter 2390+. IBM character set 1 IBM character set 2 |
| <IBM DBL HIGH> NO YES | Specify whether the character height is doubled. If specified, change the vertical pitch also. Standard character height Double character height |
| <IBM AGM> NO YES | Specify whether the Alternate Graphics Mode (AGM) is used; in other words, is the printer compatible with the IBM Graphics printers? The base of line spacing is 1/72 inch or 1/216 inch. The base of line spacing is 1/60 inch or 1/180 inch. |
| =EPSON DFLT===== | The following are the Set-Up options for the Epson EP2 emulation only. |
| <E-CHR SET> USA FRANCE GERMANY UK DENMARK1 SWEDEN ITALY SPAIN1 JAPAN NORWAY DENMARK2 SPAIN2 | Select a national character set. American English French German British English Danish 1 Swedish Italian Spanish 1 Japanese Norwegian Danish 2 Spanish 2 |

Using Set-Up Mode

| MACRO Options | Description |
|---------------|--------------------------------|
| LATIN AM | Latin American |
| < 6820 SEQ > | Select Parser control |
| NO | Disable 6820 control sequences |
| YES | Enable 6820 control sequences |
| < 6820 PROT > | Select Protocol mode |
| NO | Disable the 6820 protocol |
| YES | Enable the 6820 protocol |

INSTALL Options and Values

- Overprinted values are the factory settings.

| INSTALL Options | Values | Description |
|-----------------|---|---|
| <LANGUAGE> | <p>ENGLISH</p> <p>DEUTSCH</p> <p>ESPAÑOL</p> <p>FRANCAIS</p> <p>ITALIANO</p> | <p>Specify a language to be used to print the Set-Up menu functions and options.</p> <p>English</p> <p>German</p> <p>Spanish</p> <p>French</p> <p>Italian</p> |
| <TEAR> | <p>AUTO 1 SEC</p> <p>AUTO 2 SEC</p> <p>AUTO 3 SEC</p> <p>AUTO 4 SEC</p> <p>AUTO 5 SEC</p> <p>MANUAL</p> <p>NO TEAR</p> | <p>Specify the (auto) start timing of tear off feeding.</p> <p>1 second after data stops from the computer</p> <p>2 seconds after data stops from the computer</p> <p>3 seconds after data stops from the computer</p> <p>4 seconds after data stops from the computer</p> <p>5 seconds after data stops from the computer</p> <p>Feed the paper for tear-off when the READY button is pressed changing to pause mode.</p> <p>Tear off feeding is inhibited under any conditions.</p> |
| <S-SHEET LD> | <p>AUTO 1 SEC</p> <p>AUTO 2 SEC</p> <p>AUTO 3 SEC</p> <p>AUTO 4 SEC</p> <p>AUTO 5 SEC</p> <p>MANUAL</p> | <p>Specify the (auto) start timing of single sheet loading.</p> <p>1 second after a single sheet is set on the platen</p> <p>2 seconds after a single sheet is set on the platen</p> <p>3 seconds after a single sheet is set on the platen</p> <p>4 seconds after a single sheet is set on the platen</p> <p>5 seconds after a single sheet is set on the platen</p> <p>Load a single sheet when the FF/Load button is pressed.</p> |
| <BUFFER> | <p>2 KBYTE</p> <p>8 KBYTE</p> <p>16 KBYTE</p> <p>32 KBYTE</p> <p>64 KBYTE</p> | <p>Assign buffer memory as the input buffer.</p> <p>2K bytes</p> <p>8K bytes</p> <p>16K bytes</p> <p>32K bytes</p> <p>64K bytes</p> |

Using Set-Up Mode

| INSTALL Options | Values | Description |
|-----------------|--|--|
| | | <p>Note:</p> <p>The larger the input buffer selected, the smaller the download buffer becomes. Even with 64K bytes of input buffer, a minimal download buffer is provided. If you need a larger capacity for downloading fonts, reduce the input buffer.</p> |
| <I/F TYPE> | <p>AUTO</p> <p>SERIAL</p> <p>USB</p> <p>WIRELESS</p> <p>BLUETOOTH</p> | <p>Select the type of interface to the computer.</p> <p>Both interfaces are ready for communication. The printer communicates with the interface from which it first receives data. The interface is active until the input buffer becomes empty.</p> <p>RS-232 Serial interface</p> <p>USB interface</p> <p>Wireless interface</p> <p>Bluetooth interface</p> |
| <BAUD RATE> | <p>4800 BPS</p> <p>9600 BPS</p> <p>19200 BPS</p> <p>38400 BPS</p> | <p>The baud rate is in bps (bits per second). Select the same baud rate as that used by your computer or modem.</p> <p>4800 Bits Per Second</p> <p>9600 Bits Per Second</p> <p>19200 Bits Per Second</p> <p>38400 Bits Per Second</p> |
| <PARITY> | <p>NONE</p> <p>ODD</p> <p>EVEN</p> | <p>Parity setting</p> <p>Select the same word parity setting that is used by your computer or modem.</p> <p>None causes transmission in both directions without parity bit</p> <p>The bytes are checked to ensure they have odd parity.</p> <p>The bytes are checked to ensure they have even parity.</p> |
| <DATA BIT> | <p>8 BIT</p> <p>7 BIT</p> | <p>Word Length setting</p> <p>Select the same word length setting that is used by your computer or modem.</p> <p>8 Data bits per data byte</p> <p>7 Data bits per data byte</p> |
| <STOP BIT> | <p>1 BIT</p> <p>2 BIT</p> | <p>Word Length setting</p> <p>Select the same word length setting that is used by your computer or modem.</p> <p>1 Stop bit per data byte</p> <p>2 Stop bits per data byte</p> |
| <BUFFER CTL> | <p>DTR</p> <p>XON/XOFF</p> | <p>The ready/busy control method.</p> <p>Hardware control via the DTR lead.</p> <p>Data control using DC1 and DC3 control</p> |

| INSTALL Options | Values | Description |
|-----------------|------------------------------------|---|
| | 6820 PROT | characters. For 6820 emulation |
| <DISC FAULT> | NO DROP DTR PULSE DTR | Disconnect on a fault condition Do not disconnect. DTR will change to inactive state. DTR will pulse to inactive and then back to the normal active state. |
| <PWRDNTIME> | 0 1-96 | Sets time for idle power down action Disables idle power down timeout Hours to turn off power |

Safe Panel

- If the value of safe panel is “YES”, READY, PARK and LOAD require the ALT key to be used as a two key operation for these functions in Normal Operation Mode of printer.
- If the value of safe panel is “NO”, READY, PARK and LOAD key are operated as Normal Operation Mode, ALT key is not required.

Recalling Factory Settings

Factory settings are those settings pre-selected at the factory. To recall (reset) the factory settings, select the RCALL-FACT function and press the ALT-NEXT button or the ALT-PREVIOUS button.

Options under the MACRO, INSTALL, and ADJUST functions are all initialized to the factory settings.

Exiting and Saving

This section describes how to exit the Set-Up mode while saving any changes you have made.

To exit the Set-Up mode with the settings saved, first select the SAVE&EXIT function and then press the ALT-NEXT button or the ALT-PREVIOUS button.

Any settings changed while in the Set-Up mode are saved as the new power-on defaults for the printer. The new defaults remain active until you change them again.

Using the Diagnostic Functions

Print Configuration Function

This function prints a list of all the printer's currently selected values. This function is useful for checking the printer settings when you first enter the Set-Up mode or just before you exit.

1. To enter the Printer Configuration mode:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the ALT button.

2. The printer starts to print a list of the currently selected values. The pre-selected factory settings are shown on the opposite page.

3. To exit the Printer Configuration mode:

After the printer finishes printing the list of values, press the SETUP/EXIT button

Printer Configuration

xxxxxxxx

F/W Version V1.00
IPL Version V1.03
CG Version V1.01

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4

| <u>Options</u> | <u>MACRO</u> Value |
|----------------|-----------------------|
| EMULATION | EPSON-EP2 |
| EMUL SERIAL | EPSON-EP2 |
| EMUL USB | EPSON-EP2 |
| EMUL WIRELESS | EPSON-EP2 |
| EMUL BLUETOOTH | EPSON-EP2 |
| FONT | DRAFT |
| HORZ PITCH | 10 CPI |
| VERT PITCH | 6 LPI |
| FORM LENGTH | 11 |
| INCHES | |
| LEFT MARGN | 1 COL |
| TOP OF FORM | 0 /60 IN |
| IGNORE FF | YES |
| TOP MARGIN | 1 LINES |
| BOTTOM MARGIN | 66 LINES |
| CR CODE | CR=CR |
| LF CODE | LF=LF+CR |
| PRINT DIR | SOFT CONTRL |

| | |
|------------|----------------|
| | <IBM&EPSON> |
| CODE PAGE | CP 437 |
| | <IBM DEFLTS> |
| I-SET 1/2 | IBM SET 1 |
| I-DBL HIGH | NO |
| IBM AGM | NO |
| | <EPSON DEFLTS> |
| E-CHR SET | USA |

| <u>Options</u> | <u>INSTALL</u> Value |
|----------------|-------------------------|
| LANGUAGE | ENGLISH |
| TEAR | AUTO 1 |
| SEC | |
| S-SHEET LD | AUTO 1 |
| SEC | |
| BUFFER | 64 |
| KBYTE | |
| I/F TYPE | AUTO |
| BAUD RATE | 9600 BPS |
| PARITY | |
| | NONE |
| DATA BIT | 8 BIT |
| STOP BIT | 1 |
| BUFFER CTL | DTR |
| DISC FAULT | NO |
| PWRDWNHRS | 16 |
| HOUR(S) | |

| <u>Options</u> | <u>SAFE PANEL</u> Value |
|----------------|----------------------------|
| SAFE PANEL | NO |

| <u>Options</u> | <u>MENU-ACCES</u> Value |
|----------------|----------------------------|
| MENU ACCES | ALL FUNC |

Printing Test Function

The printing test function prints test pages independently of your computer to check printing operations and quality. It does not check the interface between the computer and the printer.

The printing test prints all of the characters available in the ASCII character set.

1. To enter the Printing Test mode:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the "LOAD/FF" button.

Note: Do not press any buttons alone or in combination except for pressing the LOAD button alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. The printer starts to print rolling ASCII data as shown below.

3. To exit the Printer Configuration mode:

Printing Test mode is continues until power OFF.

```
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`a
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`ab
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`abc
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`abcd
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!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`a
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ [\]^_`a
```

Hex Dump Mode

The Hex Dump mode prints data and commands in hexadecimal characters and abbreviated control codes. The ASCII characters are used for printing. No characters are printed for hexadecimal codes 80 to FF. The Hex Dump mode is useful for checking whether your computer is sending the correct commands to the printer and whether the printer is executing the commands correctly. It is also useful for debugging software programs.

1. To enter the Printing Test mode:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the “READY/CLEAR” + “ALT” buttons.

Note: Do not press any buttons alone or in combination except for pressing the READY and ALT buttons alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. Print the Hex Dump.

- 1) To start Hex Dump printing, send your file or program to the printer. The printer goes online and prints the Hex Dump.
- 2) Press the READY button to pause and resume printing in Hex Dump mode. To resume Hex Dump printing, press the READY button again.
- 3) To print another Hex Dump, send another file to the printer.

3. Exit the Hex Dump mode

Turn the printer off to exit the Hex Dump mode.

4. Sample of Hex Dump printing format

| Address | Hex data | ASCII |
|---------|---------------------------------------|---------------------------------|
| 0000 | 00 01 02 03 04 05 0C 0D 0E 0F | |
| 0010 | 10 11 12 13 14 15 1C 1D 1E 1F | |
| 0020 | 20 21 22 23 24 25 2C 2D 2E 2F | ! " # \$ % & ' () * + , - . / |
| 0030 | 30 31 32 33 34 35 3C 3D 3E 3F | 0 1 2 3 4 5 6 7 8 9 : ; < = > ? |
| 0040 | 40 41 42 43 44 45 4C 4D 4E 4F | @ A B C D E F G H I J K L M N O |
| 0050 | 50 51 52 53 54 55 5C 5D 5E 5F | P Q R S T U V W X Y Z [\] ^ _ |
| | . | |
| | . | |
| | . | |
| | . | |
| | . | |

Using Set-Up Mode

Note: To exit the vertical alignment function without saving changes, turn the printer off.

Top Adjustment Function

Print positions often change gradually when you use the printer over long periods of time. The ADJUST function allows you to adjust these positions by fine-tuning the Top-of-Form origin.

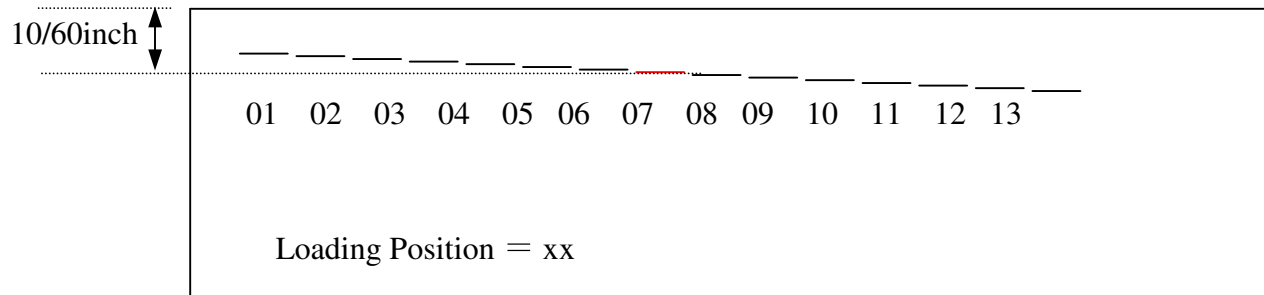
1. To enter Top Adjustment Function:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the "PARK" buttons.

Note: Do not press any buttons alone or in combination except for pressing the PARK button alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. To set Top Adjustment value:

- 1) The format of adjustment Loading Position is printed as below, 15 patterns of adjustment Loading Position are printed.



- 2) The format of Loading Position is printed and the paper is automatically advanced for viewing after the printing is complete. The message of "Loading Position Pos = xx" is printed.
- 3) Press NEXT and PREVIOUS Key to choose the new top position. The adjustment range is "01-15", and the center value is "08".

It is possible to adjust different values for Tractor and Manual

3. Printing new value

By pressing SETUP/EXIT Key, the adjustment value for Loading Position is determined and the adjustment value for Loading Position is saved.

Using Set-Up Mode

The new adjustment values of Loading Position is printed. The paper is automatically advanced for viewing after the printing is complete. After ejecting a paper, the message "Loading Position = xx" is printed.

Loading Position = xx

...

...

Loading Position = yy

Note) "yy" is New adjustment value

4. Exit the Top Adjustment mode

Turn the printer off to exit the Top Adjustment mode.

Setting of The First Dot Position on The Left Side Function

Print positions often change gradually when you use the printer over long periods of time. This ADJUST function allows you to adjust these positions by fine-tuning the Left Margin origin.

1. To enter Adjustment Function:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the "READY/CLEAR" + "ALT" + "LOAD/FF" buttons.

Note: Do not press any buttons alone or in combination except for pressing the "READY/CLEAR" + "ALT" + "LOAD/FF" buttons alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. To set Adjustment value:

- 1) The format of adjustment of setting of the first dot Position on the left side is printed as below, 15 patterns of adjustment Position are printed.

| | |
|-------|-----|
| | 01H |
| | 02H |
| | 03H |
| | 04H |
| | 05H |
| | 06H |
| | 07H |
| | 08H |
| | 09H |
| | 10H |
| | 11H |
| | 12H |
| | 13H |
| ←→ | 14H |
| 10/60 | 15H |

1st Print Position = xx

Using Set-Up Mode

- 2) After the format of setting of the first dot Position on the left side is printed, the paper is automatically advanced for viewing after the printing is complete. The message of "1st Print Position Pos = xx" is printed.
- 3) Press NEXT and PREVIOUS Key to choose the new first dot position on the left side. The adjustment range is "01-15", and the center value is "08".
It is possible to adjust different values for Tractor and Manual

3. Printing new value

By pressing SETUP/EXIT Key, the adjustment value for the first dot position on the left side is determined and the adjustment value is saved.

The new adjustment value of the first dot position on the left side is printed. The paper is automatically advanced for viewing after the printing is complete. After ejecting a paper, the message "1st Print Position = xx" is printed.

1st Print Position = xx

...

...

1st Print Position = yy

Note) "yy" is New adjustment value

4. Exit the setting of the first dot position on the left side mode

Turn the printer off to exit this mode.

Changing Menu Access Options

You can restrict the access to the Set-Up functions to avoid accidentally changing the Set-Up options.

MENU ACCESS Option and Values

- Overprinted values are the factory settings.

| MENU ACCESS Options | Values | Description |
|---------------------|---|--|
| <MENU-ACCES> | <p>ALL FUNC</p> <p>MACRO ONLY</p> <p>NO ACCESS</p> <p>SAFE PANEL</p> | <p>Specify the type of access to the Set-Up functions from the control panel or from the <FUNCTIONS> menu.</p> <p>All functions are accessible.</p> <p>Only MACRO functions are accessible from the <FUNCTIONS> menu.</p> <p>Set-Up mode is inaccessible.</p> <p>READY, PARK and LOAD require the ALT key to be used as a two key operation for these functions.</p> <p>Note: You can return to the All Functions Accessible mode by turning the printer on while pressing the ALT, PARK and LOAD buttons at the same time. The printer enters the Set-Up mode with this operation.</p> |

1. To enter Menu Access mode:

- 1) Make sure that the tractors are loaded with continuous feedpaper and that the paper select lever is set forward.
- 2) Turn the printer off.
- 3) Turn the printer back on while pressing the “LOAD/FF” + “PARK” + “ALT” buttons.

| | |
|--------------|---|
| Note: | Do not press any buttons alone or in combination except for pressing the LOAD, PARK and ALT buttons alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user. |
|--------------|---|

2. To change Menu Access Option and values

- 1) Press the NEXT(LOAD/FF) button to move to next option;
- 2) Press the PREVIOUS(PARK) button to move to previous option;
- 3) Press the ALT-NEXT buttons to select the Option or value and move down;
- 4) Press the ALT-PREVIOUS buttons to select the Option or value and move up;
- 5) Press SETUP/EXIT key to save the value and move to SAVE&EXIT menu;

Using Set-Up Mode

3. Exit the Menu Access mode

Turn the printer off to exit the Menu Access mode.

Setting Setup Mode to Default Value (Standard)

This function can initialize the printer to Standard default.

1. To enter setting setup mode to default value(standard):

- 1) Turn the printer off.
- 2) Turn the printer back on while pressing the “PARK” + “READY/CLEAR” buttons.

Note: Do not press any buttons alone or in combination except for pressing the PARK and READY/CLEAR buttons alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. Exit the setting setup mode to default value(standard):

After the setting completes, the printer will automatically restart in the power-up state.

Setting Setup Mode to Default Value (6820 Mode)

This function can initialize the printer to 6820 mode default.

1. To enter setting setup mode to default value(6820 mode):

- 1) Turn the printer off.
- 2) Turn the printer back on while pressing the “PARK” + “ALT” buttons.

Note: Do not press any buttons alone or in combination except for pressing the PARK and ALT buttons alone when turning the printer on, to avoid initiating unexpected tests not permitted for the user.

2. Exit the setting setup mode to default value(6820 mode):

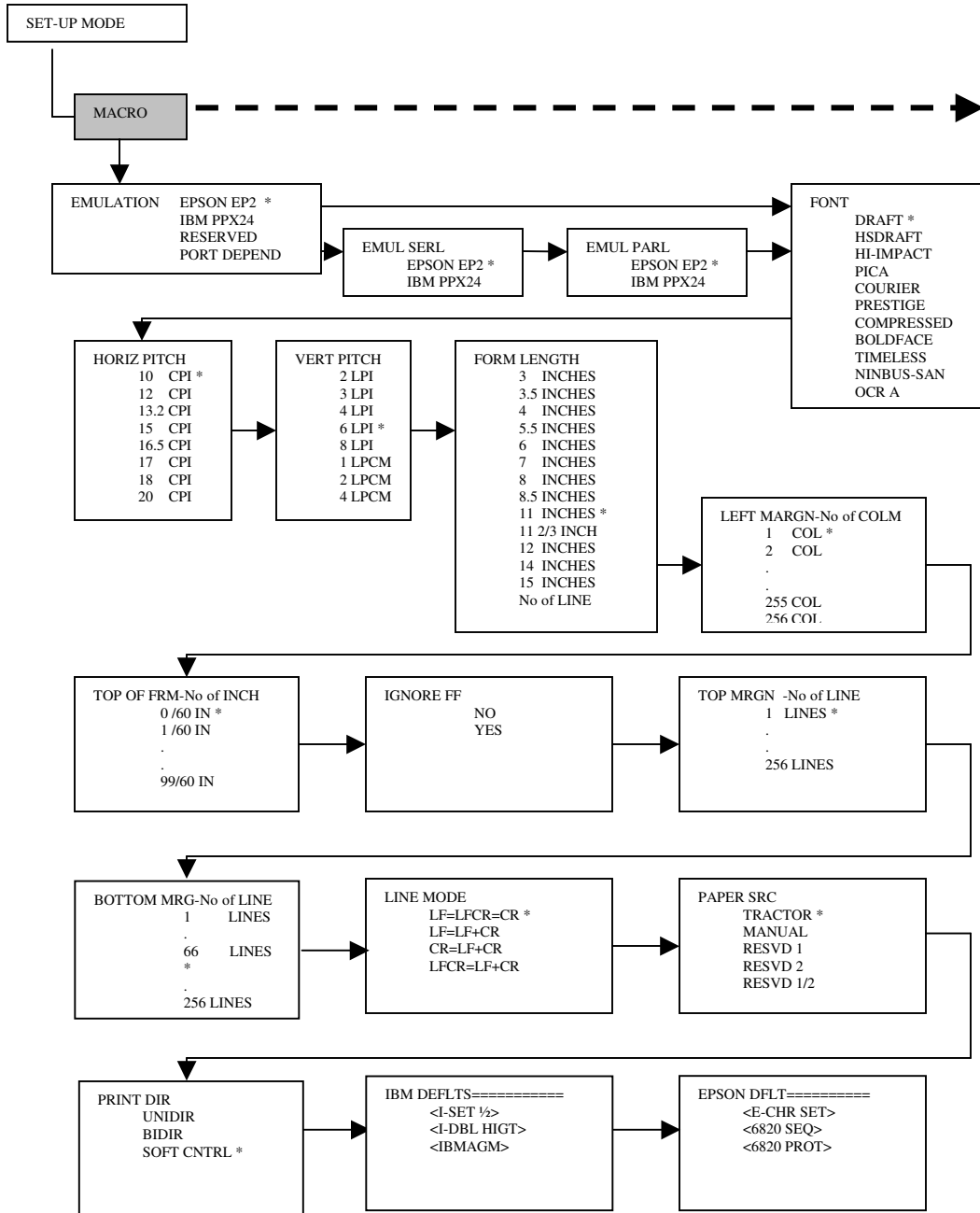
After the setting completes, the printer will automatically restart in the power-up state.

Using Set-Up Mode

Set-Up Mode Quick Reference

The following flowchart shows how the Set-Up mode is organized.

Note: Asterisks (*) indicate factory settings.



Using Set-Up Mode

