



# Instructions

## 12RC01 PRINTER SUPPORT ROM PACK

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12RC01 — PRINTER  
SUPPORT ROM PACK

A 1240 with the 12RC01 Printer Support ROM Pack and the 1200C11 Parallel Printer COMM Pack can be directly connected to parallel interface printers. Using the the Printer Support ROM Pack with the 1200C01 RS232C COMM Pack allows direct interface with RS232C-compatible printers. In either case, the Printer Support ROM Pack allows the user to print hard copies of 1240 screens, or data contained in 1240 menus and displays, without the need of a host computer for formatting.

Insert this manual at the back of your *1240 Logic Analyzer Operator's Manual*, or in the 1240 Optional Accessories binder.

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**PLEASE CHECK FOR CHANGE INFORMATION  
AT THE REAR OF THIS MANUAL**

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## PREFACE

This manual is a supplement to the *1240 Logic Analyzer Operator's Manual*. It contains complete instructions for use of the 1240 and the 12RC01 Printer Support ROM Pack with either the 1200C11 Parallel Printer COMM Pack, or the 1200C01 RS232C COMM Pack. The manual contains sufficient detail for the novice but is brief enough to work as a quick reference guide for experienced users. It assumes familiarity with both the 1240 Logic Analyzer and the printer being used.

Section 1 of this manual provides information relating the 1240 to the Printer Support ROM Pack and the two COMM Packs.

Section 2 describes all menus and features provided by the Printer Support ROM Pack, and contains information necessary to their use.

All service information is located in the *1240 Logic Analyzer Service Manual*.

## RELATED DOCUMENTS

In addition to this operator's manual, the *1240 Logic Analyzer Operator's Manual* and the operator's manual for the COMM Pack you are using will help you understand and operate your Printer Support ROM Pack.

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## OPERATOR'S SAFETY SUMMARY

Specific notes and cautions will be found throughout the manual where they apply, but may not appear in this summary.

### TERMS

**In This Manual.** CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

**As Marked on Equipment.** CAUTION indicates a personal injury hazard not immediately accessible as one reads the marking, or a hazard to property including the equipment itself.

Refer to the *Operator's Safety Summary* in the *1240 Operator's Manual* for more information.

## OVERVIEW AND POWER-UP PROCEDURE

A 1240 with a 12RC01 Printer Support ROM Pack and the 1200C11 Parallel Printer COMM Pack can be directly connected to parallel interface printers. Using the 1200C01 RS232C COMM Pack with the Printer Support ROM Pack allows direct interface with RS232C-compatible printers. In either case, this option allows the user to print hard copies of data contained in 1240 menus and displays, without the need of a host computer for formatting.

### CAPABILITIES

In normal operation, the Printer Support ROM Pack selects and prints only the relevant information from a chosen menu or data display. Soft keys, unused fields or data traces, and any other unnecessary lines or information are left out. When menus or displays are too large to fit on a single 1240 screen, the Printer Support ROM Pack is still able to locate and print all relevant data.

You can choose to print from nearly all 1240 screen displays, including the following:

#### Menus

- Operation Level menu
- Timebase menu
- Memory Config menu
- Channel Grouping menu
- Trigger Spec menus
- Auto-Run Spec menu

#### Acquired or Reference Data

- state table displays
- timing diagrams

The following functions are also available using the Printer ROM Pack:

- screen printing to copy a single display as it appears on the 1240
- search pattern printing
- printer test to check connections and printer operation
- timing trace labeling for timing diagram printouts

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**Limitations.** You cannot print from the Reference Memory Editor menu or the Additional Print Functions menu; the Storage Memory Manager menu can only be printed using the screen printing function. Screen printing for timing diagram displays copies the entire screen, but replaces the actual timing diagram trace lines with blanks. Highlighting and reverse video do not appear in screen printouts.

### Printer Support Menus.

Each menu provided for the 1240 by the Printer Support ROM Pack performs a specific set of functions. All Printer Support menus available to the user are discussed in this manual. The menus are:

- 1240 Printer Support menu (the list of menus from which other printer support menus are chosen)
- Set Up Printer Interface menu (to specify interface parameters for your printer, and a format for your printouts)
- Print Setup Information menu (to select which 1240 setup menus and details you want to print information from)
- Print Data menu (to print all or part of the current data memory in either timing or state format)
- Additional Print Functions menu (to perform screen printing, search pattern printing, or printer test)
- Define Timing Trace Labels menu (to give appropriate label names to your timing traces)

Detailed instructions for the use of each of these menus are given in the following section.

**Optional Accessories.** There are no optional accessories available for the 12RC01 Printer Support ROM Pack.

## INSTALLATION AND POWER-UP

### Installing the ROM Pack



*When installing or removing a ROM or RAM pack power must be on and the Storage Memory Manager menu must be displayed on the screen. Installing or removing the ROM pack while not in the Storage Memory Manager menu may cause disruption of the 1240 internal memory. To restore the 1240, turn it off and back on.*

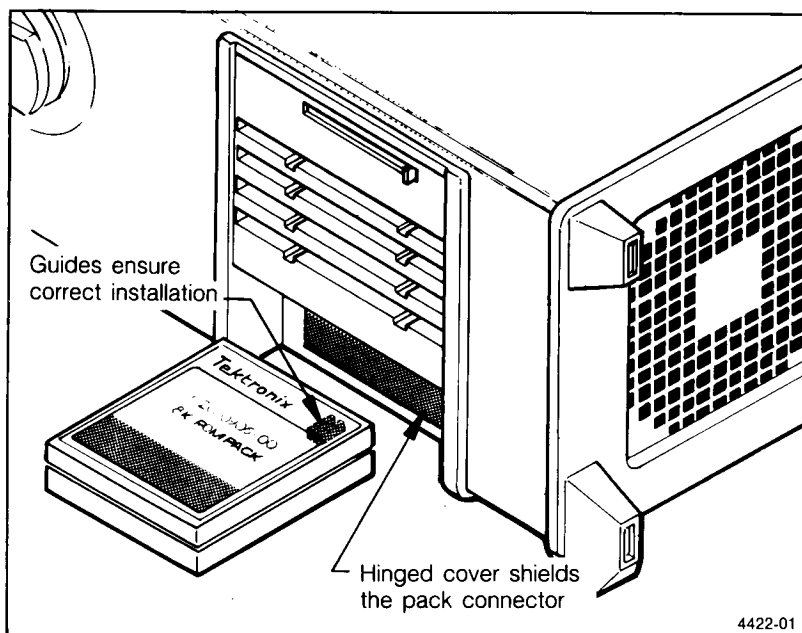
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ROM packs are installed in the slot directly beneath the probe connections on the right side-panel (see Figure 1-1). ROM packs must be installed and removed while the power is on.

To install a pack, slide the pack (label side up) past the hinged slot cover and push it slowly and firmly into the connector. Two guides on the top cover of the pack ensure the pack will be installed correctly.

### CAUTION

*Static discharge can damage the semiconductor devices in a ROM pack. Discharge static from a pack before installing it by momentarily laying the pack (label side up) on top of the 1240.*



**Figure 1-1. Installing a ROM pack.** Power must be on to install or remove a ROM pack.

**Loading the ROM pack Contents.** To install the Printer Support ROM pack, the Storage Memory Manager menu must be displayed. Install the ROM pack, then press the LOAD NEW PACK soft key.

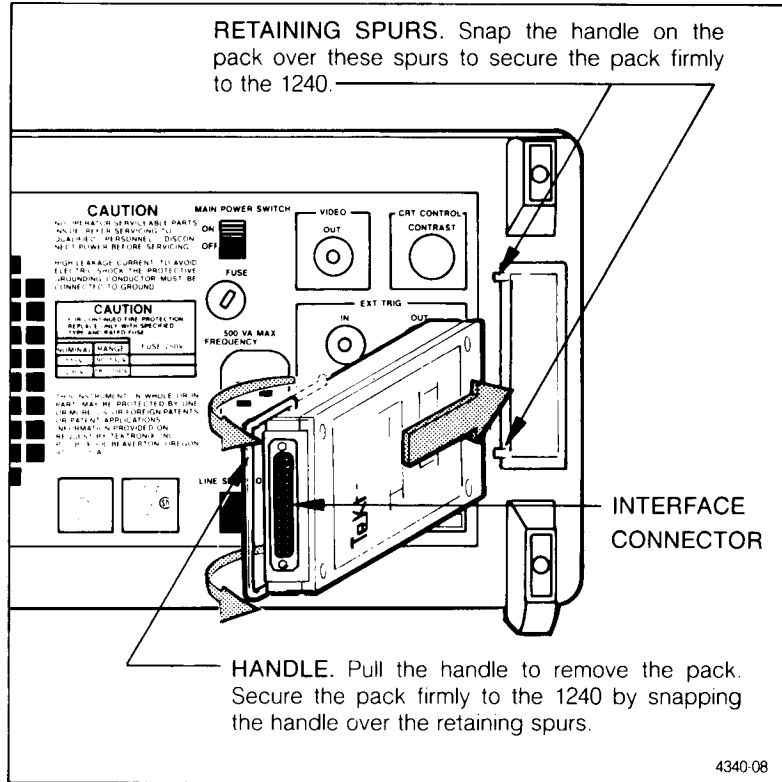
**Removing the ROM Pack.** To unload the ROM pack from the 1240, enter the Storage Memory Manager menu, pull the ROM pack straight out of the 1240 (it is not necessary to power down), then press LOAD NEW PACK.



**COMM Pack Installation.** COMM packs are installed at the back panel (see Figure 1-2). With **power off**, slide the pack past the hinged cover, label to the right as you face the back panel. The pack connector is located about four inches past the hinged cover. You can anchor the pack firmly to the 1240 by snapping the handle over the two small retaining spurs to the left of the slot (see Figure 1-2).

**CAUTION**

*Do not install or remove a COMM pack while dc power is on; the COMM pack may be damaged.*



**Figure 1-2. Installing a COMM Pack.** Do not install or remove a COMM pack while dc power is on. Cables may be left attached to the COMM pack during installation or removal.

To remove a COMM pack from the 1240, first turn dc **power off**, then pull on the handle on the back of the pack.

Interface cables can remain connected to COMM packs during installation or removal.

**CAUTION**

*To avoid damaging the COMM pack or connector cable, do not remove the pack by pulling on the cable: always use the handle.*

**Printer Connections.** The 1240 can be connected to your printer via a COMM pack with either a 2-meter parallel interface cable, or an RS232C serial interface null modem cable.

The cable connector is in the back of the COMM pack that you have installed in the 1240. **IMPORTANT: RS232C and Parallel Printer COMM Pack cable connectors appear to be the same. The RS232C COMM Pack has a male connector and the Parallel Printer COMM Pack has a female connector. You must have the correct COMM pack and cable for the type of printer you are using.**

**NOTE**

*If you are using the 1200C01 RS232C COMM Pack to connect to your printer, you must use a null modem connector. Tektronix builds an RS232C null modem cable, part number 012-0530-00. To use this cable, you must also have a gender change adaptor.*

**Power-Up Diagnostics.** If 1240 power-up diagnostics reveal an error, the 1240 remains under diagnostic control. Refer to the *1240 Operator's Manual* for an explanation of power-up conditions. If no error is present, the 1240 automatically exits the diagnostic monitor and displays the Operation Level menu.

## OPERATING INSTRUCTIONS

### OVERVIEW

When the Printer Support ROM Pack is installed and loaded, a soft key labeled PRINTER PORT CONTROL appears in the Storage Memory Manager menu. This soft key replaces the COMM PORT CONTROL soft key that normally appears when a COMM pack is installed.

Pressing the PRINTER PORT CONTROL soft key in the Storage Memory Manager menu causes the 1240 Printer Support menu to appear. The 1240 Printer Support menu is used to control all other 12RC01 Printer Support menus.

After making all necessary connections and calling up the 1240 Printer Support menu, a typical session using the Printer Support ROM Pack involves the following steps:

1. Call up the Printer Interface menu.
2. Select the interface parameters such as characters per line and lines per page.
3. Return to the Printer Support menu.
4. Call up a print function menu (Print Setup, Print Data, or Additional Print Functions).
5. Select the 1240 displays you want to print information from (1240 menu setups, state tables, or timing diagrams, for example).
6. Press the PERFORM PRINT FUNCTION soft key on the print function menu you have selected to initiate printing.

While the printer is operating, the print function menu is replaced by a display showing which setup or data is currently being printed. The soft key labeled CANCEL PRINT FUNCTION halts printing and returns you to the print function menu (the STOP key on the front panel will also do this). Figure 2-1 shows a typical display that appears during printer operation.



4802-01

**Figure 2-1. Print Setup Information menu with printer operating.** This is a typical display during printing. The only action allowed the user is to stop printing using the CANCEL PRINT FUNCTION soft key or the STOP key. Text being printed will scroll through the blank section of the screen when the printer is operating.

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The 1240 display returns to the print function menu once printing is completed. You may then return to the 1240 Printer Support menu to select and set up another print function, or return to the Storage Memory Manager menu to store the printer support setups you have just created.

The following paragraphs describe the print function menus. An explanation of each printer support function can be found in the description of the menu controlling it. Select fields and soft keys within each menu are labeled and described by number.

All 12RC01 Printer Support ROM Pack menus are presented in this section.

### CHANGING SELECT FIELDS.

As with the 1240, to change a select field you must first move the cursor to the field, then use the SCROLL knob, the SELECT keys, or the data entry keys to select a value.

### PRINT FUNCTION MENUS

The following menus become available once you press the PRINTER PORT CONTROL soft key at the top of the screen.

#### 1240 PRINTER SUPPORT

This is the default menu that appears the first time you touch the PRINTER PORT CONTROL soft key in the Storage Memory Manager menu. It is used only to select other Printer Support menus. You must return to this menu to gain access to any of the others.

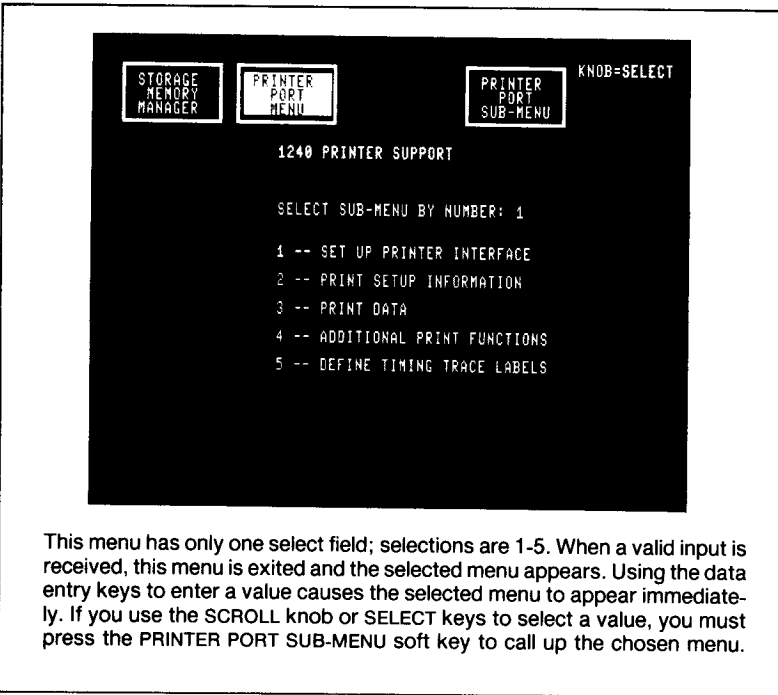


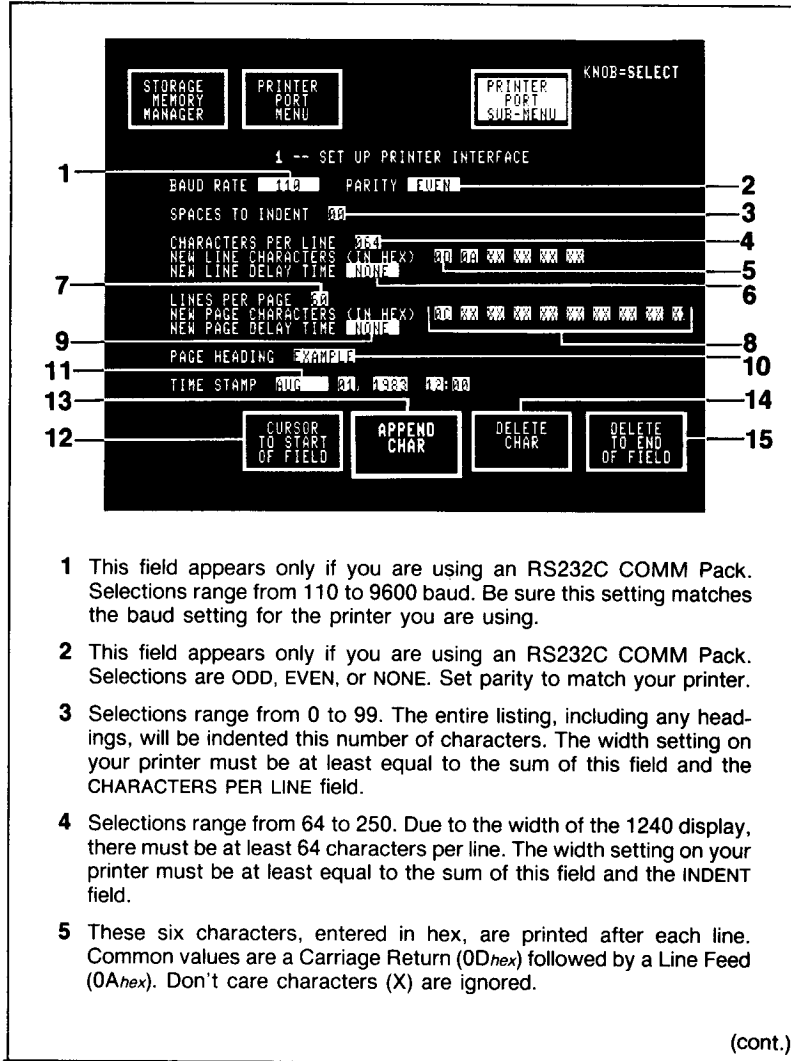
Figure 2-2. 1240 Printer Support menu.

4802-02

**SET UP PRINTER INTERFACE**

Two versions of the Printer Interface menu are available, depending on whether you are using the 1200C11 Parallel Printer COMM Pack or the 1200C01 RS232C COMM Pack. If you are using the RS232C COMM Pack, select fields for baud rate, parity, and delay times appear. These fields do not apply to parallel interface transmissions and will not appear if you are using the Parallel Printer COMM Pack.

The soft keys on the bottom line of the Set Up Printer Interface menu are intended to simplify the use of the page heading field and only operate if the cursor is in that field. Figure 2-3 shows the Set Up Printer Interface menu.



- 1 This field appears only if you are using an RS232C COMM Pack. Selections range from 110 to 9600 baud. Be sure this setting matches the baud setting for the printer you are using.
- 2 This field appears only if you are using an RS232C COMM Pack. Selections are ODD, EVEN, or NONE. Set parity to match your printer.
- 3 Selections range from 0 to 99. The entire listing, including any headings, will be indented this number of characters. The width setting on your printer must be at least equal to the sum of this field and the CHARACTERS PER LINE field.
- 4 Selections range from 64 to 250. Due to the width of the 1240 display, there must be at least 64 characters per line. The width setting on your printer must be at least equal to the sum of this field and the INDENT field.
- 5 These six characters, entered in hex, are printed after each line. Common values are a Carriage Return (0D<sub>hex</sub>) followed by a Line Feed (0A<sub>hex</sub>). Don't care characters (X) are ignored.

(cont.)

Figure 2-3. Set Up Printer Interface menu.

- 6 Selections range from NONE to 9.9 in .1 second increments. Use this field to specify the length of delay after the NEW LINE CHARACTERS have been sent to the printer.
- 7 Selections range from 0 to 99. Three lines should be included for the page heading. If this value is 0, no printing or page breaks will occur.
- 8 These characters are printed after a page break. Common entries are a single Form Feed (0C<sub>hex</sub>) or a number of Line Feeds (0A<sub>hex</sub>). Don't care characters (X) are ignored. Every instance of a Carriage Return (0D<sub>hex</sub>) is replaced by the string entered in NEW LINE CHARACTERS.
- 9 Values range from NONE to 9.9 in .1-second increments. This field specifies the length of delay after the NEW PAGE CHARACTERS have been sent to the printer.
- 10 This field is printed at the top of each page as a heading. Enter each character of the field by using the SCROLL knob or SELECT keys and moving the cursor to the next position. Choose from letters A-Z, numbers 0-9, special characters . , / ^ \$ and a blank space.
- 11 The time stamp is printed at top of page unless NONE is selected in MONTH field. You may enter a month, day, year, hour, and minute. This field is not a clock and will not change unless you enter new values.
- 12 Moves cursor to leftmost position of PAGE HEADING field.
- 13 Adds new character after current cursor location. Works only in PAGE HEADING field.
- 14 Deletes the character at the current cursor location. Works only in PAGE HEADING field.
- 15 Deletes all characters to the right of the current cursor location. Works only in PAGE HEADING field.

4802-03

Figure 2-3. Set Up Printer Interface menu (cont.).

**PRINT SETUP INFORMATION**

Figure 2-4 shows the Print Setup Information menu, used to select which parts of the 1240 Setup you wish to print information from.

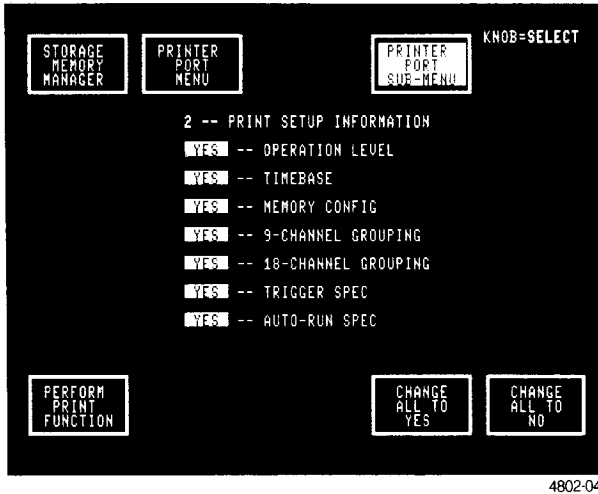


Figure 2-4. Print Setup Information menu.

The select fields and soft keys for this menu are self-explanatory. A YES entered into any of these fields causes that part of the 1240 setup to be printed. You may have any combination of YES and NO answers in this menu. When you press PERFORM PRINT FUNCTION, the selected parts of the setup will be printed consecutively, unless you press CANCEL PRINT FUNCTION.

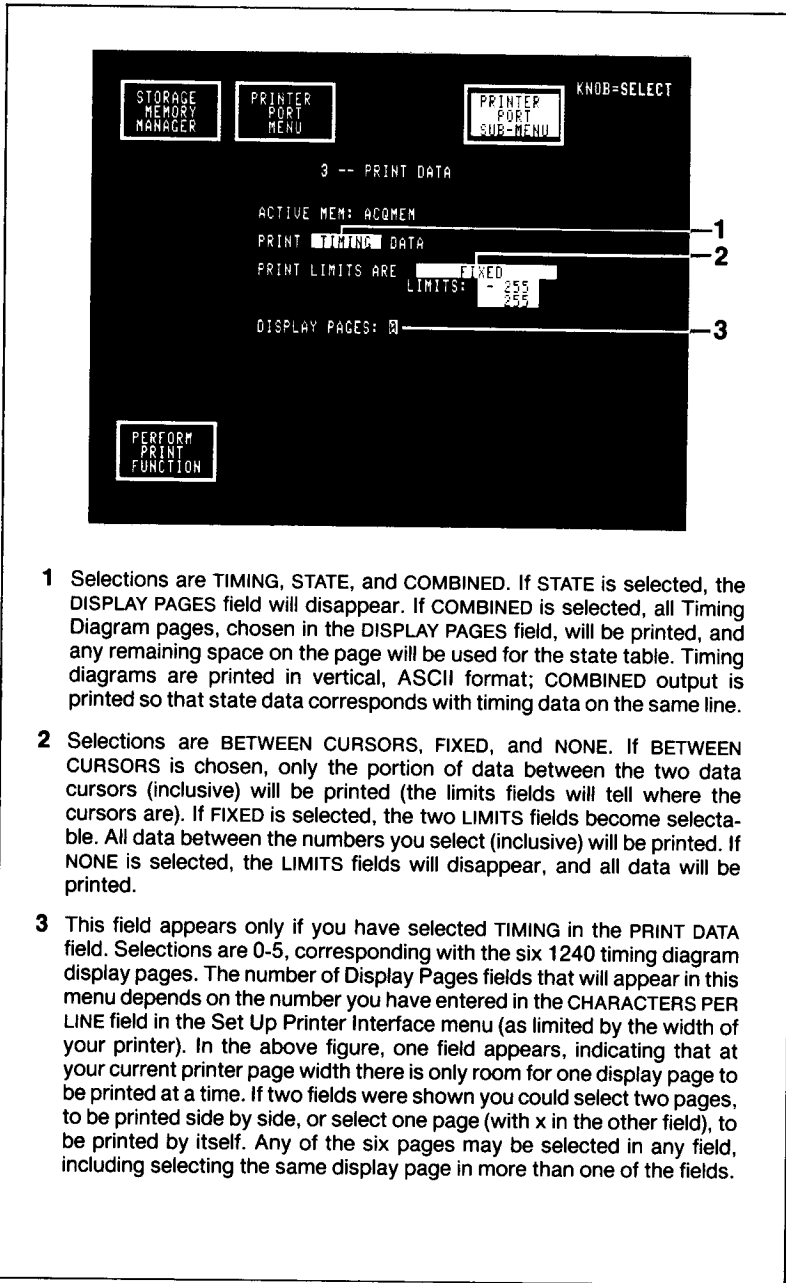
As with the other print functions (except screen printing), only the relevant data from any menu will be printed.

The 9 Channel Grouping and 18 Channel Grouping fields appear only if their respective acquisition cards are installed in the 1240.

**PRINT DATA**

Using the Print Data menu, you can print acquisition or reference memory data in state table, timing diagram, or combined format.

Figure 2-5 shows the Print Data menu with PRINT TIMING DATA selected. Figure 2-6 gives an example of what the timing diagram printout will look like.

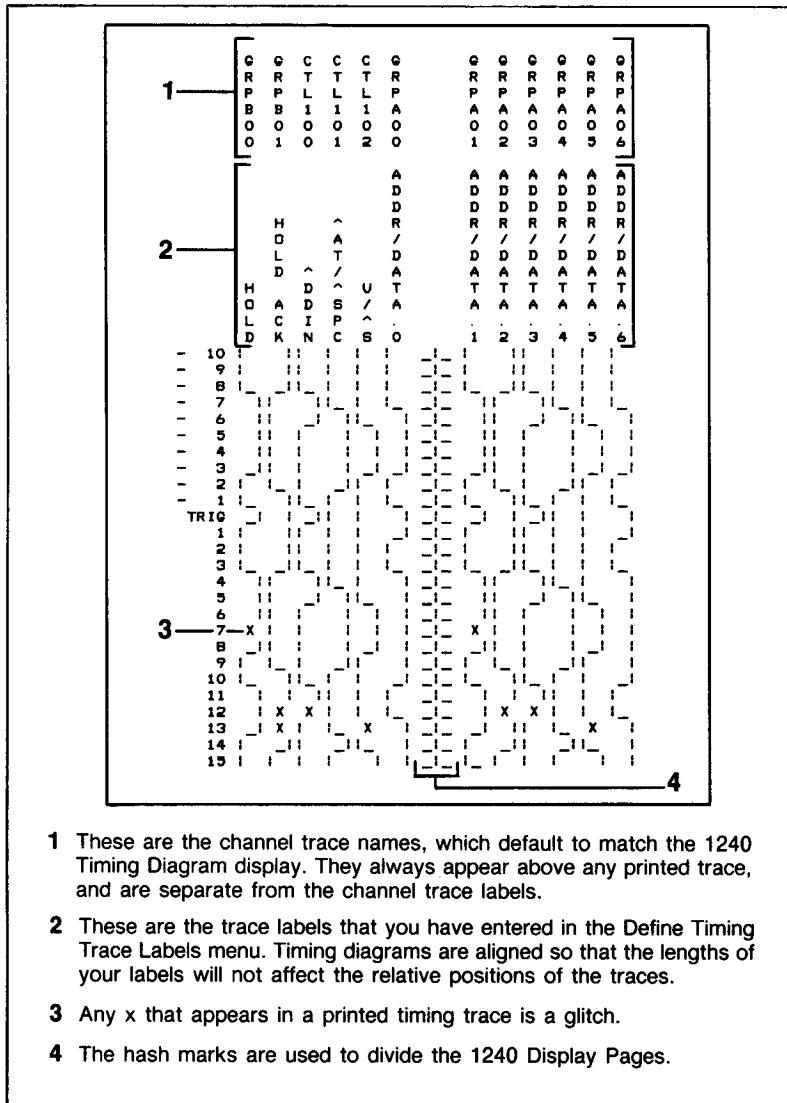


- 1 Selections are TIMING, STATE, and COMBINED. If STATE is selected, the DISPLAY PAGES field will disappear. If COMBINED is selected, all Timing Diagram pages, chosen in the DISPLAY PAGES field, will be printed, and any remaining space on the page will be used for the state table. Timing diagrams are printed in vertical, ASCII format; COMBINED output is printed so that state data corresponds with timing data on the same line.
- 2 Selections are BETWEEN CURSORS, FIXED, and NONE. If BETWEEN CURSORS is chosen, only the portion of data between the two data cursors (inclusive) will be printed (the limits fields will tell where the cursors are). If FIXED is selected, the two LIMITS fields become selectable. All data between the numbers you select (inclusive) will be printed. If NONE is selected, the LIMITS fields will disappear, and all data will be printed.
- 3 This field appears only if you have selected TIMING in the PRINT DATA field. Selections are 0-5, corresponding with the six 1240 timing diagram display pages. The number of Display Pages fields that will appear in this menu depends on the number you have entered in the CHARACTERS PER LINE field in the Set Up Printer Interface menu (as limited by the width of your printer). In the above figure, one field appears, indicating that at your current printer page width there is only room for one display page to be printed at a time. If two fields were shown you could select two pages, to be printed side by side, or select one page (with x in the other field), to be printed by itself. Any of the six pages may be selected in any field, including selecting the same display page in more than one of the fields.

4802-05

**Figure 2-5. Print Data menu.** PRINT TIMING DATA has been selected in this display. The DISPLAY PAGES field will not appear if PRINT STATE DATA has been selected.





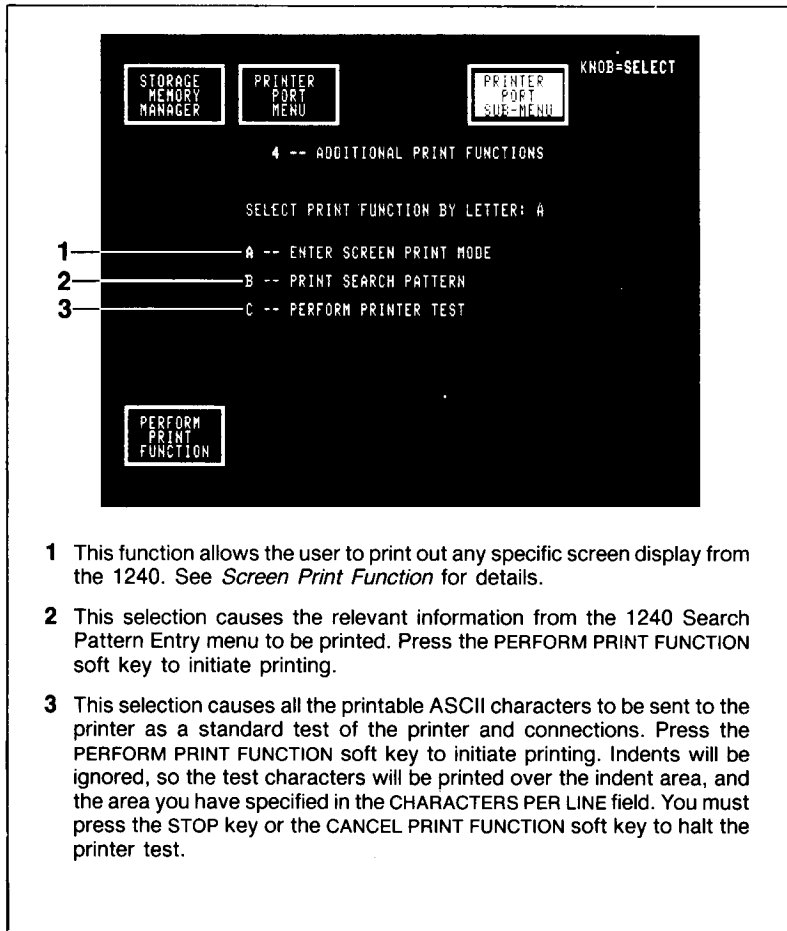
- 1 These are the channel trace names, which default to match the 1240 Timing Diagram display. They always appear above any printed trace, and are separate from the channel trace labels.
- 2 These are the trace labels that you have entered in the Define Timing Trace Labels menu. Timing diagrams are aligned so that the lengths of your labels will not affect the relative positions of the traces.
- 3 Any x that appears in a printed timing trace is a glitch.
- 4 The hash marks are used to divide the 1240 Display Pages.

4802-06

Figure 2-6. Timing Diagram. Example of a timing diagram printout in vertical ASCII format.

### ADDITIONAL PRINT FUNCTIONS

Figure 2-7 shows the Additional Print Functions menu. Three separate functions can be selected in this menu. Only one function may be selected at a time.



- 1 This function allows the user to print out any specific screen display from the 1240. See *Screen Print Function* for details.
- 2 This selection causes the relevant information from the 1240 Search Pattern Entry menu to be printed. Press the PERFORM PRINT FUNCTION soft key to initiate printing.
- 3 This selection causes all the printable ASCII characters to be sent to the printer as a standard test of the printer and connections. Press the PERFORM PRINT FUNCTION soft key to initiate printing. Indents will be ignored, so the test characters will be printed over the indent area, and the area you have specified in the CHARACTERS PER LINE field. You must press the STOP key or the CANCEL PRINT FUNCTION soft key to halt the printer test.

4802-07

Figure 2-7. Additional Print Functions menu.

**Screen Print Function.** To print out a display in the same format that appears on the 1240 screen (including all soft keys, dividing lines, etc), you must select SCREEN PRINT MODE in the Additional Print Functions menu. After you have made this selection, press the PERFORM PRINT FUNCTION soft key to enter the screen print mode (this does not initiate printing, but confirms your selection). You can then go to any standard 1240 menu or display, or Printer Support menu or display, you wish to copy. Once you are in the desired menu or display, simply press the START key to begin printing.

Screen printing for timing diagram displays copies the screen, but replaces the actual timing diagram trace lines with blanks.

## NOTE

*Under any other conditions, the START key will begin a data acquisition. The Screen Print mode alters the use of that key until you have left the mode.*

**DEFINE TIMING TRACE LABELS**

This menu allows you to create a set of descriptive labels to be printed with timing traces. A trace is a single channel or line from the timing diagram. A trace name is the name given that channel in the 1240 Timing Diagram display. A trace label is the descriptive label that you create in this menu to be printed above the trace, just below the trace name.

**Trace Names.** On power-up, or after loading a P/INIT file, the first time you enter the Define Timing Trace Labels menu the channel trace names, and their order, will default to match the 1240 Channel Grouping menu. If you go back and make changes to the Channel Grouping menu then return to the Define Timing Trace Labels menu, all trace names will be turned off. When this occurs the trace labels will not be moved or changed. The trace name controls the relative position that its associated trace will be printed in.

**Trace Labels.** On power-up, trace labels are blank. If you create timing trace labels, or change them, then leave this menu and return, the trace labels will remain as you have set them. Trace labels can also be changed by loading a PSETUP file from a RAM pack (refer to *Storing And Loading ROM Pack Setups* in Appendix A).

If you create a large number of generally applicable trace labels, you can then select and use labels from the set, rather than entering new labels each time. To select a label for printing, go to the trace name field associated with the desired label (the trace name field may be holding a different trace name, or it may be OFF) then select the trace name that you want to print with that label. The field originally holding the selected trace name will be set to OFF. If you switch a trace name field to OFF, its associated trace will be printed without a name or label. If you wish to save the trace labels you have entered when you power down the 1240, you must use a RAM pack (see *Storing And Loading ROM Pack Setups* in Appendix A).

Because memory space available for trace labels is fixed, using fewer characters in each label field will leave room for a greater number of labels. For example, with the maximum number of characters per label (45) there is room for about 75 labels, while using 20 characters per label leaves room for more than 150 labels.

**Using Soft Keys to Enter or Edit Trace Labels.** Refer to figure 2-8; all the soft keys at the bottom of the screen are intended to help you enter trace labels. Whenever characters are deleted using the DELETE TO END OF FIELD soft key, they are stored in a buffer. If there are any characters in the buffer, the entire set will appear on the new line when ADD NEW LINE is pressed, but the characters will not be removed from the buffer. When you want to make a set of trace labels that are very similar, this buffer lets you to make copies of the first label as many times as you wish. You can then go back and change the few characters that are different in each label, rather than use the SCROLL knob or SELECT keys to recreate the entire label letter by letter each time. If you leave the Define Timing Trace Labels menu and enter a 1240 menu, the buffer will be cleared.

If you press DELETE TO END OF FIELD when the cursor is in a trace label field with only one character, the entire line, including the line number and trace name, will be removed. You must confirm this action by pressing the X (don't care) key.

Figure 2-8 shows the Define Timing Trace Labels menu.

5 -- DEFINE TIMING TRACE LABELS

CHANNEL	TRACE LABEL
001/045	RRP007
002/045	RRP006
003/045	RRP005
004/045	RRP004
005/045	RRP003
006/045	RRP002
007/045	RRP001

Navigation numbers: 1 (line number), 2 (trace name), 3 (trace label), 4 (add new line), 5 (cursor to start), 6 (append char), 7 (delete char), 8 (delete to end).

- 1 Shows the line number and the total number of lines. In this case, line 1 of 45.
- 2 Trace name field. On power-up, these names default to match the 1240 Channel Grouping menu. Trace names may be switched to OFF, or different traces can be selected for printing in that position. If you duplicate a trace name, the field originally holding the name will be switched to OFF when the cursor leaves the field or when you leave this menu.
- 3 This is the user-definable Trace Label field. Use APPEND CHAR to increase the size of this field. The maximum number of characters in this field is 45.
- 4 Causes a new label field to appear below current cursor position. Contents of buffer, if any, will be copied into this field but not deleted from buffer.
- 5 Moves cursor to leftmost position of current input field.
- 6 Adds a character after current cursor position.
- 7 Deletes character at current cursor position.
- 8 Deletes all characters to the right of current cursor position. Deleted characters will be stored in the buffer, and the buffer's previous contents will be lost. If you attempt this with only one character in the field, the entire line can be deleted, but you must press the X key to confirm the action.

4802-08

Figure 2-8. Define Timing Trace Labels menu.

## REPLACEABLE PARTS LIST

### PRINTER SUPPORT ROM PACK — 12RC01

NUMBER	TEK. P/N	DESCRIPTION
--------	----------	-------------

**ELECTRICAL (REFER TO SCHEMATIC IN 1240 SERVICE MANUAL)**

A43	670-8172-00	CKT. BOARD ASSY: 32/64K MEMORY ROM PACK (U200, U300 EPROMs ARE NOT PART OF A43)
A43C100	281-0775-00	CAP, FIXED, CER, DI: 0.1 uF, 20%, 50V
A43C400	281-0775-00	CAP, FIXED, CER, DI: 0.1 uF, 20%, 50V
<b>CHASSIS PARTS</b>		
U200	160-2454-00	MICROCKT, DGTL: 16384 x 8 EPROM, PRGM
U300	160-2453-00	MICROCKT, DGTL: 16384 x 8 EPROM, PRGM

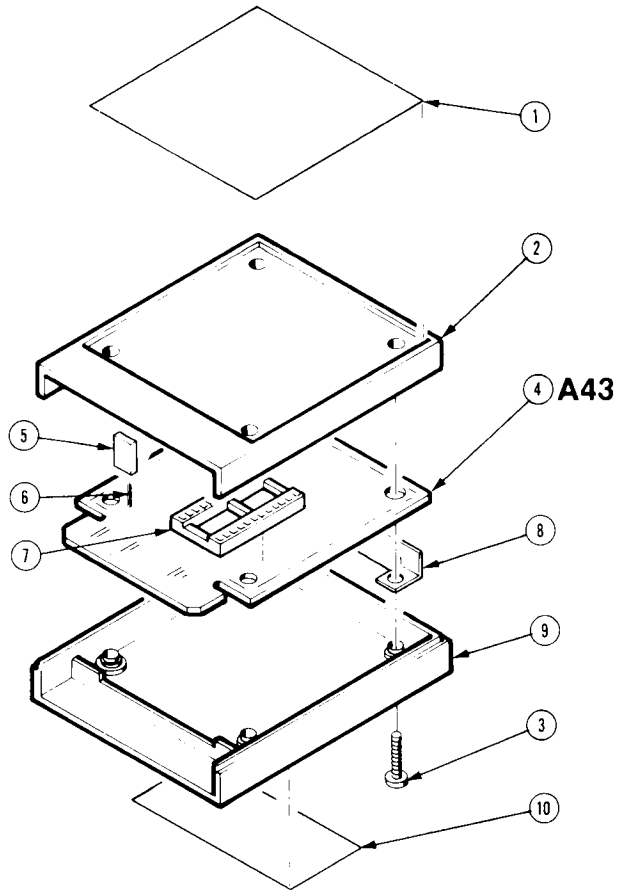
**MECHANICAL (REFER TO EXPLODED VIEW DRAWING)**

1	334-0113-00	1 MARKER, IDENT: MKD LINE PRINTER PACK
2	200-2503-01	1 COVER, ROM PACK: TOP (ATTACHING PARTS)
3	211-0012-00	4 SCREW, MACHINE: 4.40 x 0.375, PHD, STL — — * — —
4	- - - - -	CKT BOARD ASSY: 32/64K MEMORY ROM PACK (SEE A43 REPL)
5	131-0993-00	2 • BUS CONDUCTOR: 2 WIRE, BLACK
6	131-0608-00	6 • TERMINAL, PIN: 0.365 L x 0.025 PH BRZ GOLD
7	136-0755-00	2 • SKT, PL-IN ELEC: MICROCIRCUIT, 28 DIP
8	337-3122-00	1 SHIELD, ELEC: STATIC
9	200-2504-01	1 COVER, ROM PACK: BOTTOM
10	334-4727-00	1 MARKER, IDENT: MKD PROM PROGRAM IDENT

**STANDARD ACCESSORIES**

070-4802-00	1 MANUAL, TECH: INSTRUCTION
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12RC01 - Replaceable Parts



## APPENDIX A

### STORING AND LOADING ROM PACK SETUPS

The 1240 provides a special feature that allows the user to store Printer Support ROM Pack-related setups in a RAM pack. This information can later be retrieved to configure the Printer Support menus, without repeating the time-consuming setup steps initially required. This feature is especially useful with the Define Timing Trace Labels menu, which may contain more than 100 label fields.

#### STORING PRINTER SUPPORT SETUPS

To store the setups you have created while using your 12RC01 Printer Support ROM Pack, you must take the following steps.

1. Enter the Storage Memory Manager menu, then remove the Printer Support ROM Pack.
2. Install a RAM pack in the slot vacated by the ROM pack.
3. Press the LOAD NEW PACK soft key.
4. Select PSETUP in the FILETYPE field.
5. Select PACK in the STORE IN field on the new file line.
6. Press the STORE NEW FILE soft key.

All user-supplied data relevant to the 12RC01 Printer Support ROM Pack will be saved in the RAM pack.

#### LOADING SETUPS FROM RAM PACKS

To retrieve the Printer Support setups you have stored in a RAM pack, you must take the following steps in the Storage Memory Manager menu.

1. Install and load the Printer Support ROM Pack into the 1240.
2. Remove the ROM pack and replace it with the desired RAM pack.
3. Press the LOAD NEW PACK soft key.
4. Select the PSETUP file in the FILETYPE field, then press the LOAD FILE soft key.
5. Remove the RAM pack and install the Printer Support ROM Pack, then press the LOAD NEW PACK soft key.

The Printer Support ROM Pack menus will be configured as they were when the RAM pack PSETUP file was created.

## APPENDIX B

### ERROR AND PROMPT MESSAGES

The following error and prompt messages are specific to the 12RC01 Printer Support ROM Pack; they are not normally used by the 1240. If you get an error message that is not listed here, refer to the *1240 Logic Analyzer Operator's Manual*.

**LABEL MEMORY DEPLETED: DELETE A CHARACTER OR LINE FIRST.** The total memory space available for trace labels is full. If you wish to add any more characters, you must first delete characters (in this or any other label) or a line to make room.

**MAXIMUM FIELD WIDTH REACHED: UNABLE TO APPEND.**

**MINIMUM FIELD WIDTH REACHED: UNABLE TO DELETE.** This message occurs if you attempt to entirely eliminate the page heading field in the Set Up Printer Interface menu, or if you have only a single trace label and attempt to eliminate it.

**MOVE CURSOR TO TRACE LABEL FIELD.** This message indicates that you have attempted to add or delete characters in a select field of the Define Timing Trace Labels menu.

**MOVE CURSOR TO PAGE HEADING FIELD.** This message indicates that you have attempted to add or delete characters in a select field of the Set Up Printer Interface menu.

**PRESS X KEY TO DELETE LINE .** This message indicates that deleting to end of line will eliminate the entire line, and you must press X to confirm that action.

**PRINTING ABORTED.** This message indicates that you have pressed the STOP key or the CANCEL PRINT FUNCTION soft key to end printing.

**PRINTING COMPLETE.**

**SCREEN PRINT MODE IS ACTIVE: PRESS START TO PRINT SCREEN.** This message appears when you have gone to a normal print function menu after entering the screen printing mode in the Additional Print Functions menu. When this message appears, the normal print function mode is not available.

**USE 0-5 OR X.**

**USE 1-5.**

**USE A, B, OR C.**

**WARNING: DUP. CHANNEL CHOICE, ORIGINAL WILL BE SET TO OFF.** This message reminds you that you cannot have the same trace channel in two places.



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\* When an index entry has more than one page reference, the one in bold type is the primary reference.