1. GETTING STARTED

2. FRONT PANEL

3. CRT READOUT AND STATUS DISPLAY

4. CRT DISPLAY AND POWER

5. SETUP AUTO AND PROGRAM

6. SETUP: MEASURE AND OUTPUT

7. VERTICAL

8. HORIZONTAL

9. TRIGGER

10. CURSOR AND DELAY

11. STORAGE

12. GPIB STATUS

Contents
List of Tables

- Table 1: Menu of Extended Function Menu (SN 601182 A & Above)
- Table 1: Menu of Extended Function Menu (SN 601182 A & Above)
- Table 2: CC/DF Display Menu
- Table 3: Auto and Program Menus
- Table 4: Measuring and Output Menus
- Table 5: Vertical Menus
- Table 6: Higher Menus
- Table 7: A Higher Menus
- Table 8: Storage Menus

List of Illustrations

- Figure 1: Front Panel Buttons and Controls
- Figure 2: CRT Readout Display
- Figure 3: Status Menu Display
- Figure 4: MEASURE and OUTPUT Buttons
- Figure 5: Vertical Buttons and Controls
- Figure 6: Horizontal Buttons and Controls
- Figure 7: Cursor and Delay Buttons and Controls
GETTING STARTED

SAFETY NOTE

1. Read the Operation Manual before operating the instrument.

2. The instrument is a quick reference guide to the 2440 model. It does not replace the 2440 Operation Manual (07/05-6990-00).
two settings

Init. Options menu or Manual to begin

Init. Options menu or Manual to begin

To select a menu item, push the menu item below the

NOTE

If the menu is displayed, press the MENU button

to display the Extended Functions menu. Press the

NOTE

Choose Front Panel Setup for PowerUp or Select System and then

2.

Once the menu is displayed, press the MENU button to display the

Extended Functions menu. If another menu is displayed, press the

NOTE

The Video menu under the Extended Functions menu can be used to

SELF CAL.MENU

Continue with the procedure as Step 2

SELF CAL. menu to get to the SELF CAL menu.

SELF CAL. menu to get to the SELF CAL menu.

SELF CAL. menu to get to the SELF CAL menu.

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FUNCTIONS

Press the SET button to clear menu.

1. Set the extended function menu: Press [FUNC] on the menu.
2. Select ON/OFF in the extended function menu. You can read the Roll menu to make all menu changes. You can read roll menu to read all menu changes. You can read roll menu to read all menu changes.
3. Press select function to select function.
4. Press the SET button to save changes. If you would like to make the point on the screen, press the SET button to save changes. If you would like to make the point on the screen, press the SET button to save changes.
5. Set ROLL menu: Select ROLL menu if you want to be able to roll through menu.

NOTE

1. Set TRIGGER POINT tab to ON if you would like to mark the point on the screen.
2. Set TRIGGER POINT tab to OFF if you would like to mark the point on the screen.
3. Set TRIGGER POINT tab to OFF if you would like to mark the point on the screen.
5. Select ON/OFF in the extended function menu. You can read the Roll menu to make all menu changes. You can read roll menu to read all menu changes. You can read roll menu to read all menu changes.
6. Press select function to select function.
7. Press the SET button to save changes. If you would like to make the point on the screen, press the SET button to save changes. If you would like to make the point on the screen, press the SET button to save changes.
Getting Started

1. If the display is not on, press the POWER button to turn the display on. Press the STATUS/HELP button to display the menu.

2. If the display is on, press the STATUS/HELP button to display the menu.

3. Adjust the intensity of the display to a visible level (55%); then proceed.

4. Press the STATUS/HELP button to display the menu. Press the SELECT button (next to the INTENSITY control) to increase intensity. If intensity is too low, press the SELECT button again to increase intensity.

5. Normal means that the display is in normal contrast. The display contrast is in normal contrast.

6. Single-segment means that the display is in single-segment mode. The single-segment display is in normal contrast. The display contrast is in normal contrast.

7. A vertical mode must be selected on the menu (CH 1, CH 2, ADD, etc.).

8. Storage mode must not be selected; press the STORAGE button for a continuously acquirable display on screen. The following must be true:

   - ACQUIRE: If the scope is not acquiring, press the STORAGE button to acquire.
   - ALIGNED DISPLAY: If you've got a signal that is just right, uncheck the ALIGNED DISPLAY box in the user interface. This way the scope won't display.
   - AUTO LEVEI: If you've removed all blipper inputs from the scope and now.

   - Intensity can be seen. Auto level does not affect the display of the display.

   - Adjust brightness so the display is in normal contrast. If the display is too bright, adjust the brightness to normal contrast. If the display is too dim, adjust the brightness to normal contrast.

   - See also the user interface in the user guide for more information.

   - Set up AUTO LEVEI will provide a scope and background.

   - Converting a scope to the normal source and pressing the

   - NOTE
Figure 1: Front Panel Buttons and Controls.

Figure 2: CRT Readout and Status Menu Display.
The diagram shows the different buttons and controls of a device, along with their functions:

1. **Power Button**: Turns on or off the instrument.
2. **Select Button**: Moves to the menu of functions on the extended menu.
3. **Intensity Control**: Controls the readout intensity.
4. **Select Button**: Represents the menu for selecting features and functions.
5. **Status/Help Button**: Displays error messages and other important information.

The text on the page provides additional details about the buttons and their actions, such as:

- **Function** button: Used to select different functions or settings.
- **Menu Off/Extended Functions** button: Switches between the regular menu and extended functions.
- **Select Button**: For navigating through menus and selecting options.
- **Power Off** button: For powering off the device.

The page also includes a diagram with icons and labels to visually represent the buttons and their locations on the device.
SETUP: AUTO and PGM

and the trigger slope is set to (-), to display the falling edge.

Edge (Rising)

+ \( \frac{\text{rise}}{\text{fall}} \) set to \( \frac{1}{2} \), to display the rising edge.

Edge (Falling)

- \( \frac{\text{rise}}{\text{fall}} \) set to \( \frac{1}{2} \), to display the falling edge.

Scalor

determined by the peak value of the waveform. Including any DC

View

determined by the peak value of the waveform. The vertical scale is

Pressing the SETUP AUTO button causes the scope to do an Auto

Table 2: CRT Display Menu

<table>
<thead>
<tr>
<th>SELECT</th>
<th>INTENSITY</th>
<th>DISPLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>CRT Controls Graphic Intensity</td>
<td>Graphic</td>
</tr>
</tbody>
</table>
| 3      | INTENSITY and contrast of the front panel or
|        | graphics in the menu | contrast in a
| 2      | INTENSITY and contrast of the front panel or |
|        | graphics in the menu | contrast in a
| 1      | INTENSITY and contrast of the front panel or |
|        | graphics in the menu | contrast in a

Panel Menu by pressing the EXIT button, to return to normal operation.

More specific information should be displayed on the screen.

Opening any menu or control of the front panel causes a

Pressing the HELP button on the front panel of the display can display a

Pressing the STATUS button is pressed.

The top four lines of the status menu update as any of

ATTENUATION (resets back to the element level controlled when Elias)

Detectors...

DET 8...
1. Press the SETUP (Program) button.
2. Select Save Menu button.
3. Select Save menu in second level menu.
4. Press the SETUP (Program) button.
5. Select Save menu button.
6. Select EOF menu button.
7. To save a single front panel setup as an AutoStep sequence, create and name it, save it, and later recall all from the main menu.

Pressing the SETUP button displays the AUTOSTEP menu, which is used for setup and programming.

Note: The RES (Hi) button selects the Hi (second level) of the menu, and the RES button is used for selecting the Hi level. The button displays the Hi level setup menu.

Figure 5: AUTO and PRGM Buttons.
Table 6: AUTO and PGM Menus (cont.)

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAVE</td>
<td>Save the current state of the program.</td>
</tr>
<tr>
<td>EXIT</td>
<td>Exit the current menu.</td>
</tr>
<tr>
<td>COPY</td>
<td>Copy the current state to another location.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Delete the current state.</td>
</tr>
<tr>
<td>RECALL</td>
<td>Recall a saved state.</td>
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<tr>
<td>PGM</td>
<td>Program state.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Auto state.</td>
</tr>
<tr>
<td>AutoSet</td>
<td>Auto set menu.</td>
</tr>
<tr>
<td>AutoStop</td>
<td>Auto stop menu.</td>
</tr>
<tr>
<td>Load Panel</td>
<td>Load panel menu.</td>
</tr>
<tr>
<td>SetTest</td>
<td>Set test menu.</td>
</tr>
<tr>
<td>Plot</td>
<td>Plot menu.</td>
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<tr>
<td>CAL</td>
<td>Calibration menu.</td>
</tr>
<tr>
<td>Repeat</td>
<td>Repeat menu.</td>
</tr>
</tbody>
</table>

Note: The table continues on the next page.
1. Press the scope to the Measure menu.

2. The output menu is selected. If the output menu is not selected, exit this menu and return to the measurement menu.

3. The output menu is selected. If the output menu is not selected, exit this menu and return to the measurement menu.

4. Press the measurement button to select the measurement menu.

5. The measurement menu is selected.

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<table>
<thead>
<tr>
<th>Table 4: Measure and Output Menu (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SETUP</strong></td>
</tr>
<tr>
<td><strong>MEASURE and OUTPUT</strong></td>
</tr>
</tbody>
</table>

---

**DELAY FROM**

- CH1
- CH2
- MULT/ADD

- DELAY TO

Selection of DELAY to be parameter to be extracted.

- SOURCE is displayed: set to ON (other than DELAY) and more than one display.

- DELAY FROM

- RANGE

- MEAS TYPE

Selection of MEAS TYPE to which parameters are measured.

- DUTY PERIOD

- FALL

- NL

- VREF

- SOURCE

- WIDTH

- AVG

- MEAN

- MED

- MAX

- MIN

- PK-T

- PK-F

- DEF

- DELAY FROM

- RANGE

- MEAS TYPE

Selection of MEAS TYPE when a parameter is selected.

Notes:
- In the menu list, the arrow buttons with ON and OFF to display the parameters selected in the parameter selection are displayed.
- In the menu list, the arrow buttons with ON and OFF to display the parameters selected in the parameter selection are displayed.
- In the menu list, the arrow buttons with ON and OFF to display the parameters selected in the parameter selection are displayed.
Vertical Controls

When in the Storage mode, press VOLTS/DIV button to enter the VOLTS/DIV setting. The vertical scale is expanded or reduced by pressing either the up or down arrow keys. The new VOLTS/DIV setting is displayed in the upper-left corner of the screen. Pressing either the up or down arrow keys again will exit the VOLTS/DIV setting.

- CH 1 control sets CH 1 VOLTS/DIV, CH 2 control sets CH 2 VOLTS/DIV.

Variables Controls

- CH 1 and CH 2 VOLTS/DIV readout 8 < Y' < 10, Y' is the current VOLTS/DIV setting. The VOLTS/DIV control is divided into 8 units.
- Lower limit is 2.5 Y' per division.
- Upper limit is 2.5 Y' per division.
- CH 1 and CH 2 VARIABLE controls:
  - CH 1 VARIABLE control: 1 to 4 + 1, Y, the lower limit is 1 Y.
  - CH 2 VARIABLE control: 1 to 4 + 1, Y, the upper limit is 1 Y.

Vertical Position Controls

- CH 0: in XY mode, the CH 0 control positions the display horizontally.
- CH 1: in CH 1 control positions the display horizontally.
- CH 2: in CH 2 control positions the display horizontally.
- CH 3: in CH 3 control positions the display horizontally.

Variables Position Controls

- CH 1: in CH 1 control positions the display vertically.
- CH 2: in CH 2 control positions the display vertically.
- CH 3: in CH 3 control positions the display vertically.

The VOLTS/DIV control is divided into 8 units.

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  - CH 2 VARIABLE control: 1 to 4 + 1, Y, the upper limit is 1 Y.
Display the menu for selecting 20 MHz, 100 MHz or FULL vertical bandwidth.

If FULL MENU is set to ON, subsequent switches of the button:

1. Setting 60Hz to ON when AC is selected switches the menu to DC
2. Setting 60Hz to OFF when AC is selected switches the menu to OFF
3. Setting 60Hz to OFF when DC is selected switches the menu to OFF
4. Setting 60Hz to ON when DC is selected switches the menu to OFF

Displays the INPUT coupling menu for whichever channel is addressed.

REF from the DISPLAY REF menu.

CH 1 and CH 2 signals may be displayed as XY. The selected mode is underscored. XY mode automatically turns on the selected mode. XY mode is selected by pressing the button.

Figure 7: Vertical Buttons and Controls.
Have two interesting zones.

If the MODE is changed to D, it is also possible for the waveform to
be displayed at the B SEC/DIV setting. The position of the trace that can be displayed at the B SEC/DIV setting
is a function of the horizontal mode. Waveforms are acquired at all

Selects a horizontal/vertical mode. Waveforms are acquired at all A SEC/DIV

A Button

16

A Button

17

A AND B SEC/DIV control

Settings:

Selects a horizontal/vertical mode. Waveforms are acquired at all A SEC/DIV

18

A INTEG Button

is an

ROLL switch. When NORMAL=Acquire mode is ENVELOPE of AVG

mode menu is NORMAL Trigger mode. If ROLL is on selecting

Sec/Divider menu with NORMAL=Acquire mode.

ROLL mode is only allowed with NORMAL=Acquire mode.

ROLL menu, selecting ROLL mode. ROLL mode replaces

If SEC/DIV is set to 100 micros or seconds, ROLL mode replaces

EXPAND the display

The control is used when强劲 mode is SAVE to horizontally

The waveform acquisition rate is 5 seconds: the fastest is 2 ms/Div.

See the acquisition rate of the acquisition system. The following

Table: Vertical Menus

<table>
<thead>
<tr>
<th>CH1 MODE</th>
<th>CH2 MODE</th>
<th>YTYX MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>In XY MODE.</td>
<td>In XY MODE.</td>
<td>In XY MODE.</td>
</tr>
<tr>
<td>CH1 CH2</td>
<td>CH1 CH2</td>
<td>CH1 CH2</td>
</tr>
<tr>
<td>ADD</td>
<td>ADD</td>
<td>ADD</td>
</tr>
<tr>
<td>MULT</td>
<td>MULT</td>
<td>MULT</td>
</tr>
<tr>
<td>CH1 VARIABLE</td>
<td>CH2 VARIABLE</td>
<td>CH2 VARIABLE</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
21. CLIP Button

22. SET VIDEO Button

23. SET WORD Button

Displays the Word Recorder probe configuration menu.

Readout

Video signal must be interfaced for Field 2 to appear on-screen.

VIDEO CONFIGuring menu

Plug menu: mode (or to) of video coupling is selected via the VIDEO CONFIGuring menu. Video coupling is selected via the TRIGGER menu.

Displays a VIDEO CONFIGuring menu on scopes equipped with video.

TRIGGER

20. POSITION Control

Selects B Delayed sweep operation and changes the acquisition rate.


Horizontal Buttons and Controls.

Figure 8: Horizontal Buttons and Controls.
When the P trigger input is A*P, the SOURCE menu is the current setting in the a trigger menu. The SOURCE menu, when A*P trigger conditions are met, will display the trigger menu to select trigger system. When A*P source (A XOR P) is on in the a trigger SOURCE menu, the trigger system is automatically selected. The SOURCE menu is used to specify which input channel, stimulus mode, etc., will supply the signal.

Figure 6: Trigger Buttons and Controls.
### Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A TRIGGER POSITION</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>2A SOURCE</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
</tbody>
</table>

#### Table 2: A Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 3: B Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>NO CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 4: DC Coupling

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 5: DC Coupling

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 6: B Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>NO CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 7: A Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 8: B Trigger Menu

<table>
<thead>
<tr>
<th>Source</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A VIDEO COUPLING</td>
<td>FIELD 1</td>
<td>CLAMP</td>
<td>FIELD 2</td>
<td>CLAMP</td>
<td></td>
</tr>
</tbody>
</table>
Display Source on Screen

In this mode, you don't need to leave the FUNCTION menu or use the ATTACH button. Simply press the FUNCTION button twice to display the source setting. This works because the VOLTS/DIV and SECONDS/DIV settings for the source are already displayed on the screen. To change the source, press the VOLTS/DIV and SECONDS/DIV buttons. This is because the selected source is displayed on the screen. If you select a source that is not displayed, it will appear in the cursor. Measurements made with cursors appear on screen in the cursor. This allows you to see the source's settings on screen for selection or changing the cursor and delay.

FUNCTION Button

CURSOR and DELAY

Table 8: Trigger Meanings (cont)
The TIME button is used to set the time. The cursor/DELAY control is used to select the cursor and delay settings. The EVENTS button is used to select the events. The CURSOR/DELAY control is used to select the cursor and delay settings. The UNITS button is used to select the units.
1. Display a source.

To display a source:

a. Select a source.

b. If in the SAFEFE SOURCE mode, select the desired source.

c. Press the SAVE button.

2. Select a memory.

To select a memory:

a. Press the Storage button.

b. Press the desired memory number.

c. Press the SAVE button.

3. Save to single mode.

To save to single mode:

a. Press the SAVE button.

b. Press the SAVE button again to exit single mode.

4. Save to multiple mode.

To save to multiple mode:

a. Press the SAVE button.

b. Press the SAVE button again to exit multiple mode.

5. Save to group.

To save to group:

a. Press the SAVE button.

b. Press the SAVE button again to exit group.

Note: When saving to a group, the source number will be used as the group number.

- The Storage menu is used to access the following:
  - Save to single mode.
  - Save to multiple mode.
  - Save to group.

6. Save to all.

To save to all:

a. Press the SAVE button.

b. Press the SAVE button again to exit all mode.

Note: When saving to all, the source number will be used as the group number.

- The Storage menu is used to access the following:
  - Save to single mode.
  - Save to multiple mode.
  - Save to group.

- The Storage menu is used to access the following:
  - Save to all.

- The Storage menu is used to access the following:
  - Save to multiple mode.

- The Storage menu is used to access the following:
  - Save to single mode.

- The Storage menu is used to access the following:
  - Save to group.
Figure 12: GPIB Status On-Line Screen

<table>
<thead>
<tr>
<th>DEBUG DMX-SCORE</th>
<th>DEBUG OFF</th>
<th>DEBUG ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGET CH1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOURCE CH1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB REST OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NONE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELE MS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELE LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEN ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEN OFF</td>
<td></td>
<td></td>
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<tr>
<td>1 TMS</td>
<td></td>
<td></td>
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<tr>
<td>1 TMS OFF</td>
<td></td>
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<tr>
<td>1 TMS ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 mV on</td>
<td></td>
<td></td>
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<tr>
<td>35 mV off</td>
<td></td>
<td></td>
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<tr>
<td>35 mV EXIT</td>
<td></td>
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<tr>
<td>35 mV EXIT</td>
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<tr>
<td>AT TONE</td>
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<tr>
<td>AT TONE</td>
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</tbody>
</table>

GPIB STATUS

Table 10: Storage Menu (cont.)

<table>
<thead>
<tr>
<th>INP/LOOK</th>
<th>HORIZONTAL POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>XY REFL</td>
<td>HORIZONTAL POSITION</td>
</tr>
<tr>
<td>REF HPOS</td>
<td>HORIZONTAL POSITION</td>
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