Quick Reference

Tektronix

2212
Digital Storage & Analog Oscilloscope

070-8592-00

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Contents

Displaying a Waveform

1. Attach a probe to **CH 1** and hook it up to your signal

2. Press the **Input Coupling** button till the desired Input Coupling LED is illuminated

3. Press the **Vertical MODE** button till the CH 1 LED is illuminated

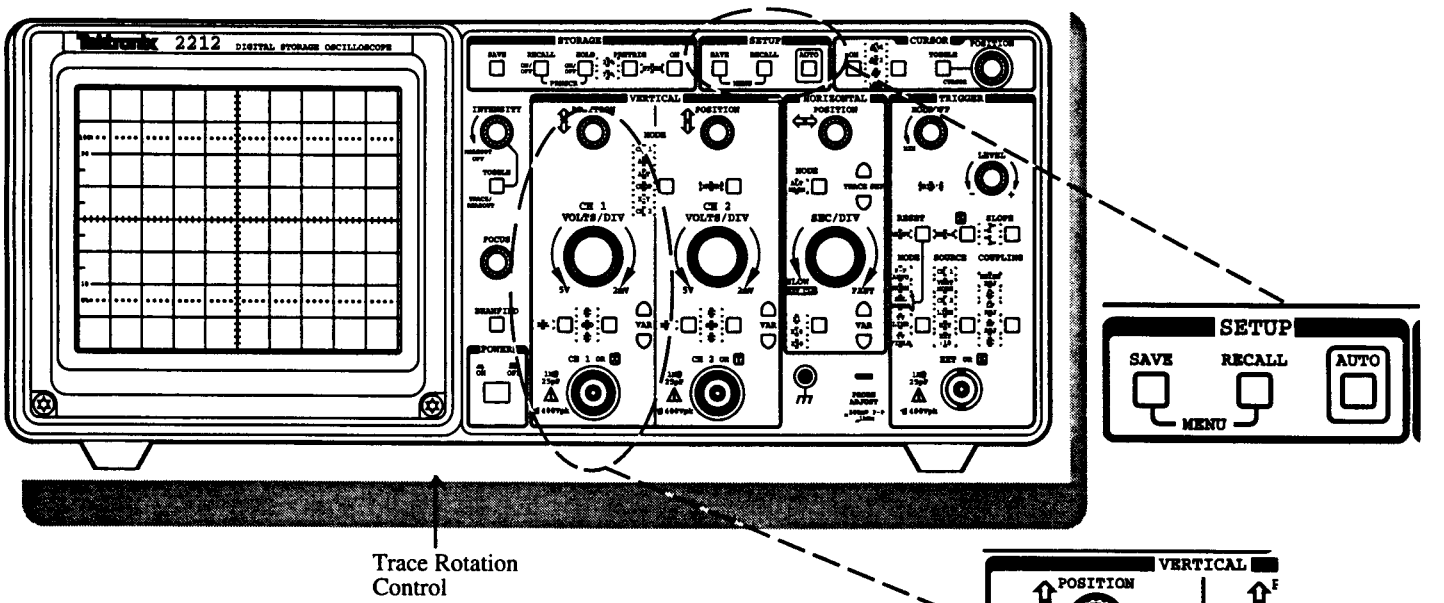
4. Press the **AUTO** Setup button

5. Adjust the **FOCUS** for a well defined trace.

6. Adjust the **INTENSITY** Control and/or the **READOUT** Intensity Control as needed

7. Adjust the **TRACE ROTATION** control, located on the bottom side (see arrow), as needed

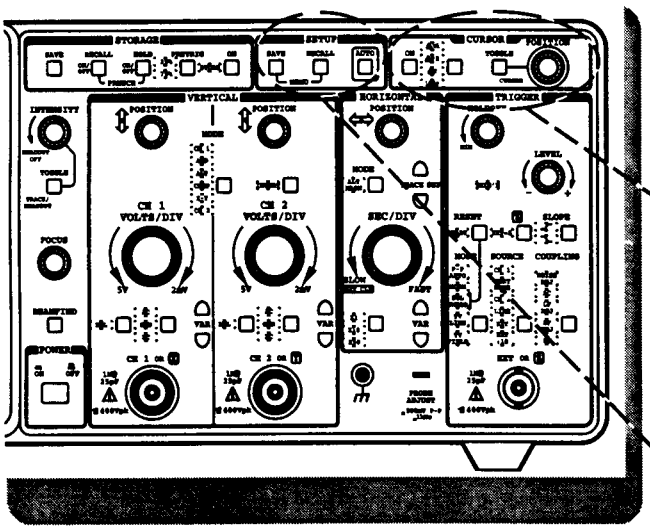
8. Adjust the vertical **POSITION**, horizontal **POSITION**, **VOLTS/DIV** and **SEC/DIV** as needed

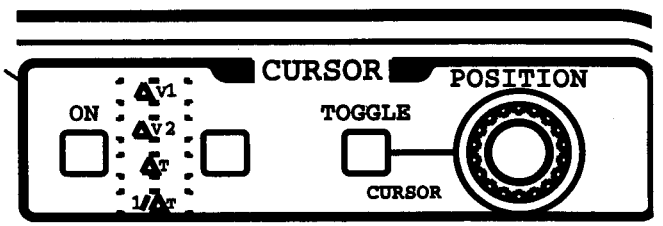


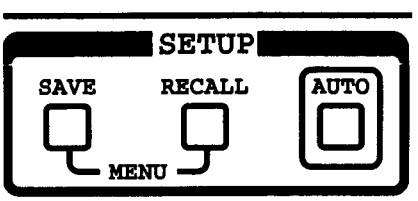
Setup Functions	Front Panel Action
AUTO Front-panel Setup	Press: **AUTO** button
Save Front-panel Setup (**SAVE**)	Press: **SAVE** button
Recall a saved front-panel setup (**RECALL**)	Press: **RECALL** button
Open/Close the Communications Interface **MENU**	Press: **SAVE** and **RECALL** simultaneously

Displaying a Waveform Using Cursors

1. Attach probe(s) to **CH 1** and/or **CH 2** and hook it up to your signal
2. Press the **Input Coupling** button(s) till the desired Input Coupling LED's become illuminated
3. Press the **AUTO** Setup button
4. Adjust the vertical **POSITION**, horizontal **POSITION**, **VOLTS/DIV** and **SEC/DIV** as needed
5. Press the Cursors **ON** button (ΔV1 LED is illuminated)
6. Press the **Cursor Mode** button to select the desired cursor mode
7. Select the **Track** mode or **Delta** cursor mode with the TOGGLE cursor switch
8. Adjust the cursor **POSITION** as needed for your measurement
9. Read the cursor measurement value from the **CRT readout**



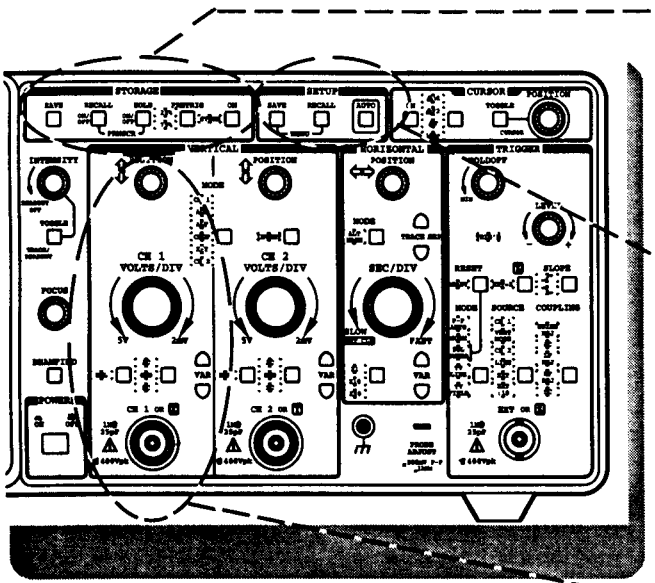


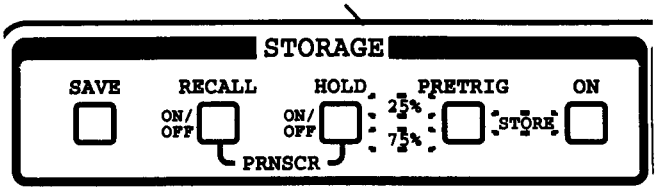


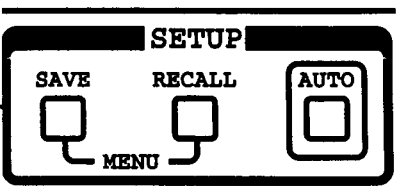
Cursor Functions	Front Panel Action
Cursors **ON**	Press: Cursors **ON** button
Cursor **Mode** selection	Press: Cursor **Mode** button to ΔV1, ΔV2, ΔT, or Δ1/T
Track mode or **Delta** cursor mode selection	Press: **TOGGLE** Cursor button to the desired cursor mode
Cursor(s) **POSITION** adjustment	Adjust: Cursor **POSITION** control.

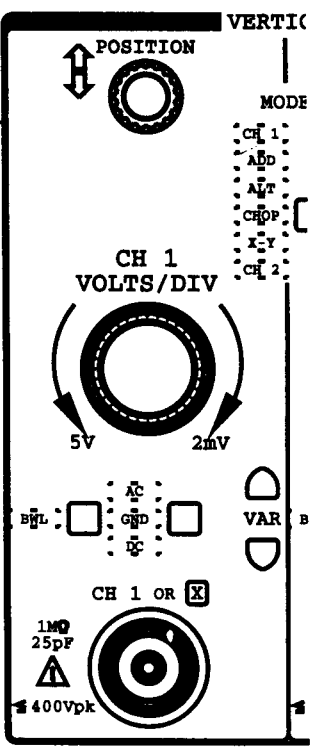
Displaying a Waveform Using Storage Mode

1. Attach a probe to **CH 1** and hook it up to your signal
2. Press the **Input Coupling** button till the desired Input Coupling LED is illuminated
3. Press the **Vertical MODE** button till the CH 1 LED is illuminated
4. Press the **AUTO** Setup button
5. Adjust the vertical **POSITION**, horizontal **POSITION**, **VOLTS/DIV** and **SEC/DIV** as needed
6. Press the Storage **ON** button (STORE LED is illuminated)



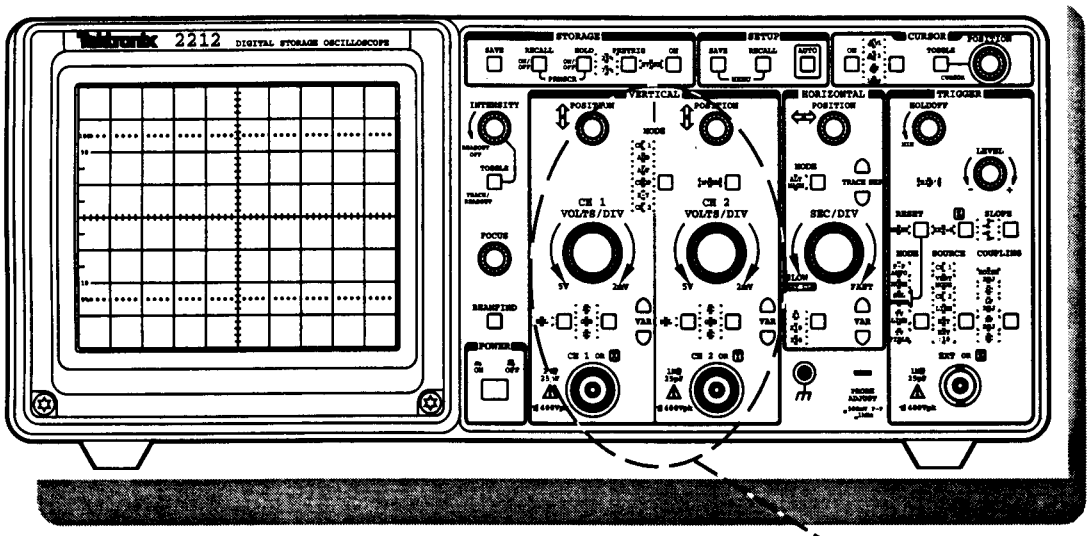




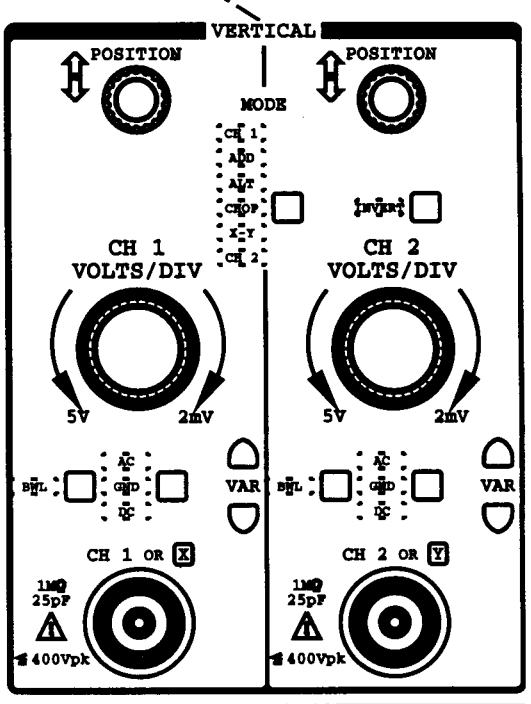


Storage Functions	Front Panel Action
Storage mode **ON**	Press: Storage **ON** button
Select the Pretrigger position (**PRETRIG**)	Press: **PRETRIG** button for 25% or 75 %
Save the displayed waveform as a Reference (**SAVE**)	Press: **SAVE** button
Recall a saved reference waveform from the memory (**RECALL**)	Press: **RECALL** button
Stop acquiring new data (**HOLD**)	Press: **HOLD** button
Print the CRT display (**PRNSCR**) on a printer/plotter	Press: **HOLD** and **RECALL** simultaneously
External Clock (**EXT CLK**) input (located on the rear panel)	With the **SEC/DIV** switch set to **EXT CLK** in storage mode, the external clock signal applied to the EXT CLK input replaces the internal acquisition clock.

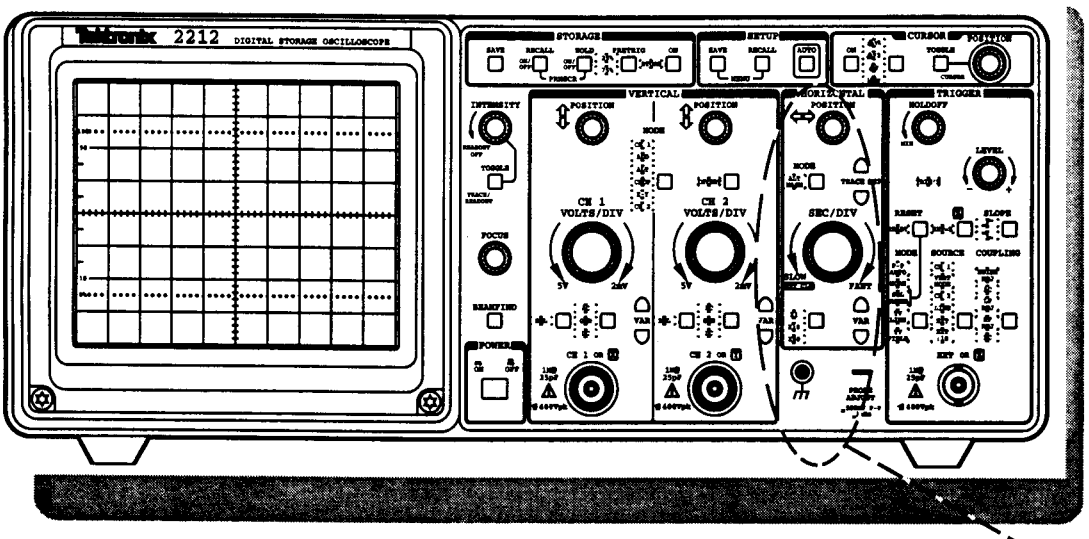
Vertical Controls and Connectors



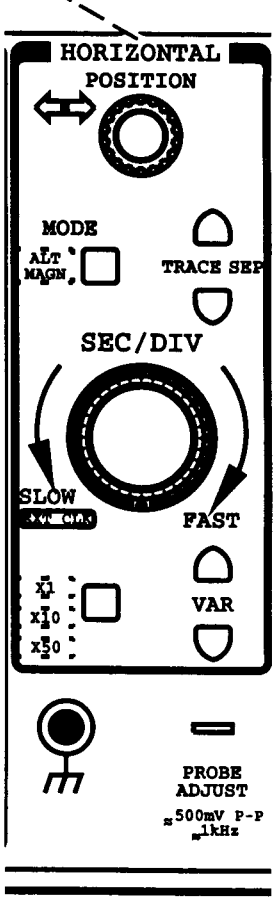
Vertical Functions	Front Panel Action
Vertical deflection **MODE**	Press: **MODE** button to select CH1, CH2, ALT, CHOP, ADD, or X-Y
Input signal Coupling	Press: **Input Coupling** button to AC, DC or GND
Vertical positioning	Adjust: **POSITION** control of the channel display concerned
Vertical Scaling **(VOLTS/DIV)**	Rotate: **VOLTS/DIV** switch of the channel concerned to the desired scaling.
Variable Scaling **(VAR)**	Press: Lower part of **VAR** control entering the uncal status and reducing the vertical sensitivity. Press: Upper part of VAR control to increase the vertical sensitivity to maximum the calibrated value. Restore the calibrated situation by pressing the upper and lower part of the VAR control simultaneously.
CH 1 OR X input connector	Connects the input signal to the vertical deflection system or to the X-Axis in X-Y mode.
CH 2 OR Y input connector	Connects the input signal to the vertical deflection system or to the Y-Axis in X-Y mode.
Bandwidth Limit **(BWL)**	Press: **BWL** button to limit the bandwidth to ±10 MHz
CH 2 display inversion	Press: **INVERT** button to invert the CH 2 signal 180 ^{0}



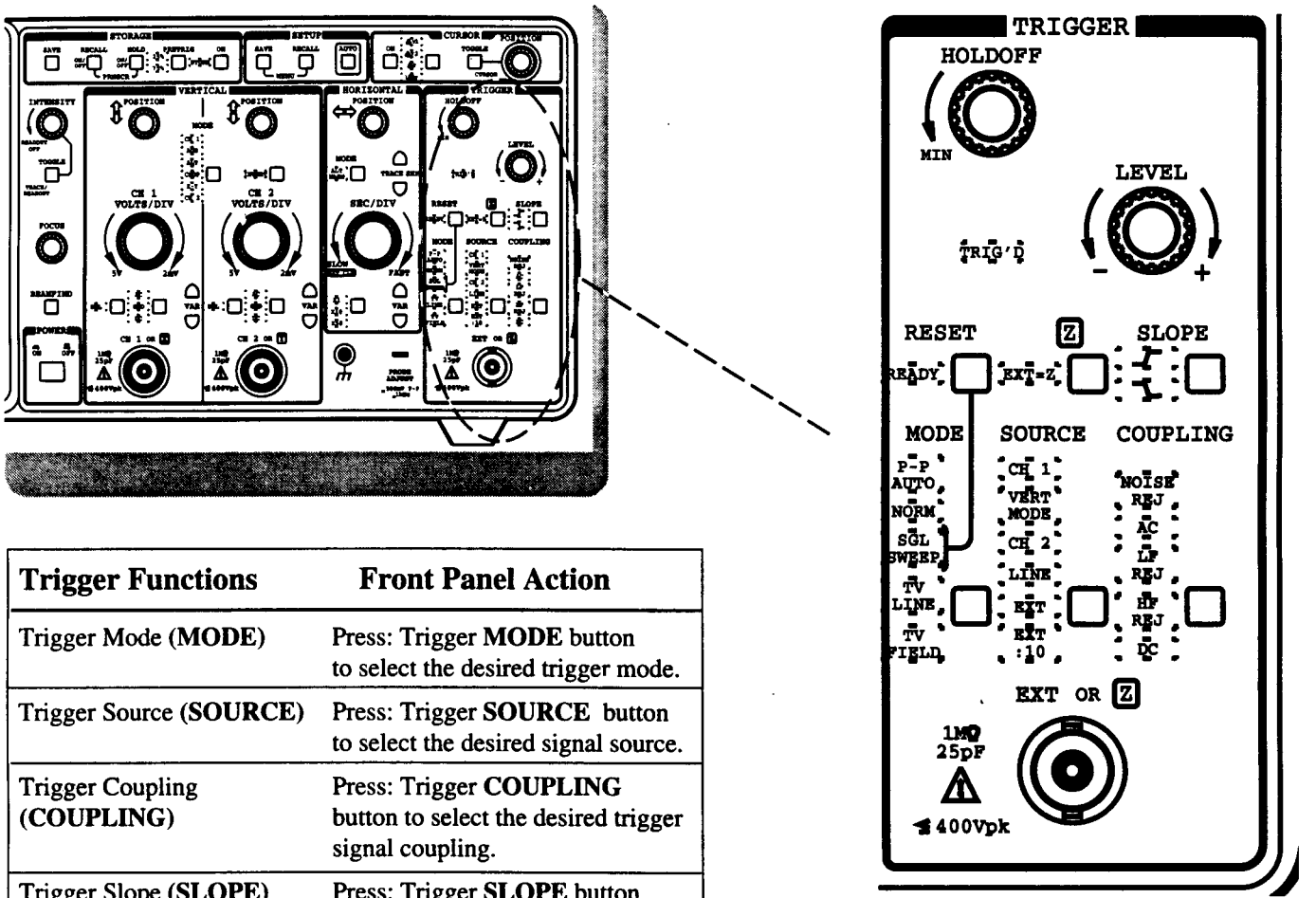
Horizontal Controls and Connectors



Horizontal Functions	Front Panel Action
Horizontal **MODE** Magnifier (**ALT MAG**)	Press: **MODE** button to select Alternate or to revert to single operation
Trace Separation (**TRACE SEP**)	In Non-storage and Storage mode display: press the upper part of the **TRACE SEP** to move the magnified trace upwards or the lower part to move the magnified trace downwards. In Storage mode with Reference waveform(s) recalled and displayed: press the upper part of the **TRACE SEP** to move the magnified trace and the recalled Reference waveform upwards or the lower part to move the magnified trace and the recalled Reference waveform downwards.
Horizontal positioning of the display (**POSITION**)	Adjust: Horizontal **POSITION** control
Horizontal Scaling (**SEC/DIV**)	Rotate: **SEC/DIV** switch to the desired scaling
RECORD Mode **ROLL** Mode	**SEC/DIV** faster than 0.1 s/DIV in Storage mode. **SEC/DIV** slower than 0.1 s/DIV in Storage mode.
Variable Scaling (**VAR**)	Press: The lower part of the VAR control entering the uncalibrated status and reducing the horizontal scaling. Press: The upper part of the VAR control to increase the horizontal scaling to a maximum of the calibrated value. To restore the calibrated value, press the upper and lower part of the VAR control simultaneously.
X1, X10, X50 Magnifier (**X1, X10, X50**)	Press: The **X1, X10, X50** button to the desired magnification
Probe compensation	Attach a probe-tip to the **PROBE ADJUST** connector, press AUTO Setup and compensate the probe (for more details: see your Probe manual).



Triggering Controls and Connectors



Trigger Functions	Front Panel Action
Trigger Mode (**MODE**)	Press: Trigger **MODE** button to select the desired trigger mode.
Trigger Source (**SOURCE**)	Press: Trigger **SOURCE** button to select the desired signal source.
Trigger Coupling (**COUPLING**)	Press: Trigger **COUPLING** button to select the desired trigger signal coupling.
Trigger Slope (**SLOPE**)	Press: Trigger **SLOPE** button to select the desired trigger slope
Trigger Level (**LEVEL**)	Rotate: Trigger **LEVEL** control to select the amplitude point on the signal that produces triggering.
EXT=Z input connector	Connects an external signal to the trigger circuit and/or the Z-axis circuit, depending on the setting of the Z-switch and the trigger SOURCE.
Z-Axis switch (**Z**)	Press: **Z**-button to apply the signal at the EXT =Z input connector also to the Z-axis circuit.
Holdoff time adjustment (**HOLDOFF**)	Adjust: **HOLDOFF** control to ensurestable triggering in storage mode and non-storage mode.
Single sweep reset switch (**RESET**)	Press: **RESET** button while in single sweep mode (**SGL SWP**) to arm the trigger circuit for one single sweep in non-storage, or one single acquisition in storage mode.

Trigger Indicators	Front Panel Action:
Trigger indicator (**TRIG'D**)	The **TRIG'D** LED turns on when triggering occurs.
Sweep is ready to be triggered indicator (**READY**)	The **READY** LED turns on in single sweep (SGL SWP) when the trigger is armed by pressing the RESET switch awaiting a triggering event.

Making a Hardcopy

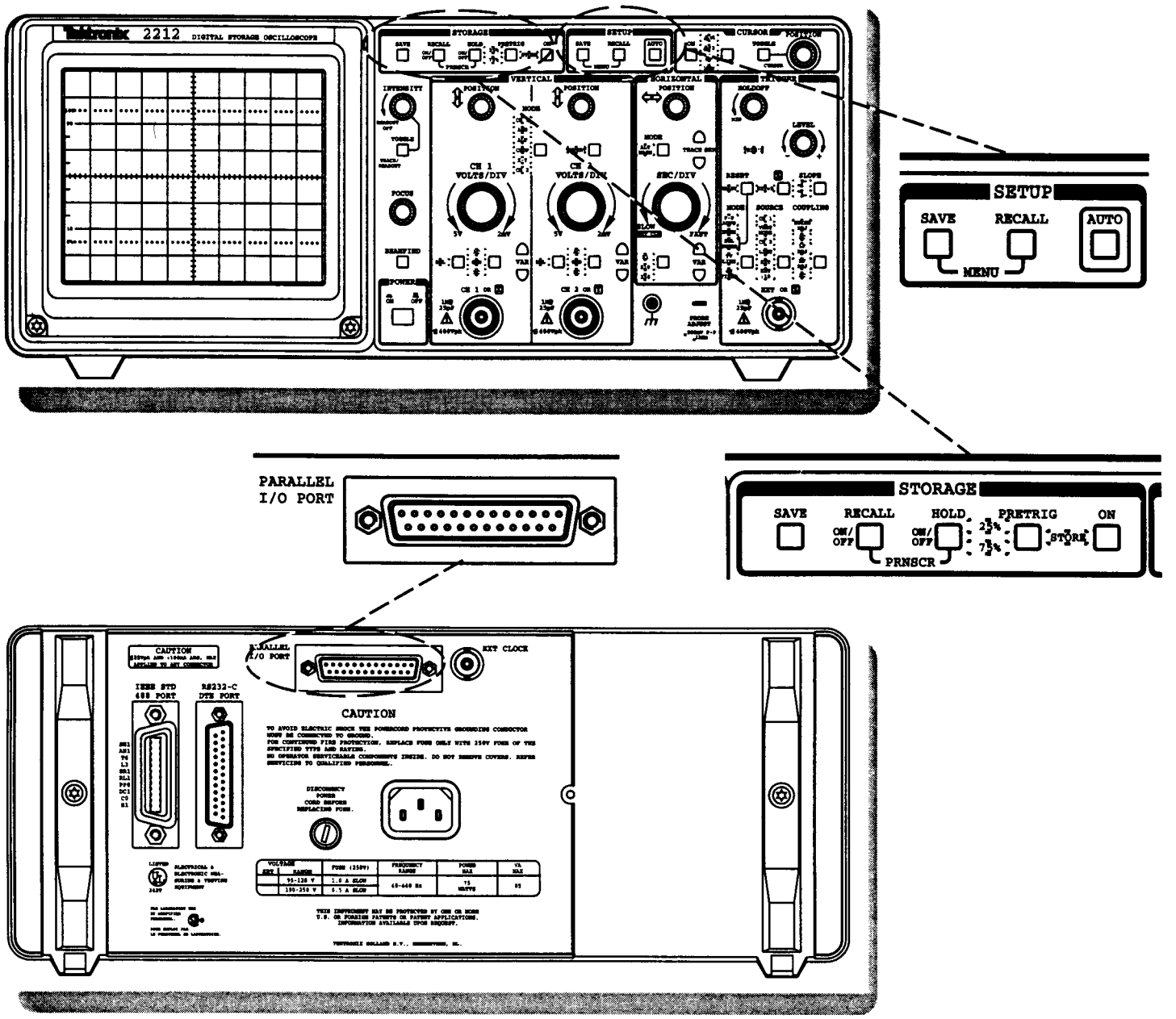
1. Connect Printer/Plotter to the **Parallel I/O Port** on the rear panel

2. Select **MENU** by pressing SAVE and RECALL buttons in the SETUP section simultaneously

3. Make selections in the MENU. Menu lines can be selected with **TOGGLE** Cursor and parameters with Cursor **POSITION**

4. Press **SAVE and RECALL** buttons simultaneously to leave the MENU

5. Press **HOLD and RECALL** buttons in the Storage section simultaneously to start dumping display data to the printer/plotter



CRT Readout Display Fields