

FS-409 CONTROLS AND INDICATORS

PULL INVert:

When pushed in, the polarity of the channel 2 signal is normal. When pulled out, the polarity of the channel 2 signal is reversed, thus inverting the waveform.

- 15. CH2 VOLTS/DIV Control.** Vertical attenuator for channel 2. Provides step adjustment of vertical sensitivity. When channel 2 **VARIABLE** control is set to CAL, vertical sensitivity is calibrated in 10 steps from 5 mV/div to 5 V/div in a 1-2-5 sequence. When the X-Y mode of operation is selected, this control provides step adjustment of Y-axis sensitivity.

16. CH2 VARIABLE/PULL X5 MAG Control: VARIABLE:

Rotation provides vernier adjustment of channel 2 vertical sensitivity. In the fully-clockwise (CAL) position, the vertical attenuator is calibrated. Counterclockwise rotation decreases gain sensitivity. In X-Y operation, the vernier this control becomes Y-axis sensitivity control.

PULL X5 MAG:

When pulled out, increases vertical sensitivity by a factor of five. Effectively provides two extra sensitivity settings: 2 mV/div and 1 mV/div. In X-Y mode, increases Y-sensitivity by a factor of five.

- 17. CH2 (Y) Input Jack.** Vertical input for channel 2. Y-axis input for X-Y operation.

- 18. CH2 AC-GND-DC Switch.** Three-position lever switch with the following positions:

AC:

Channel 2 input signal is capacitively coupled; DC component is blocked.

GND:

Opens signal path and grounds input to vertical amplifier. This provides a zero-volt base line, the position of which can be used as a reference when performing dc measurements.

DC:

Direct coupling of channel 2 input signal; both AC and DC components of signal produce vertical deflection.

HORIZONTAL CONTROLS

19. Main Time Base TIME/DIV Control.

Provides step selection of sweep rate for the main time base. When the VARIABLE Sweep control is set to (CAL), sweep rate is calibrated. This control has 23 steps from 0.1 mS/div to 2 S/div, in a 1-2-5 sequence.

- 20. VARIABLE Sweep Control.** Rotation of control is vernier adjustment for sweep rate. In fully clockwise (CAL) position, sweep rate is calibrated.

21. POSITION/PULL X10 MAG Control.

POSITION:

Horizontal (X) position control.

PULL X10 MAG:

Selects ten times sweep magnification when pulled out, normal when pushed in. Increases maximum sweep rate to 10 nS/div.

- 22. X-Y Switch.** Used with the VERTICAL MODE switch and Trigger SOURCE switch to select X-Y operating mode. The channel 1 input becomes the X-axis and the channel 2 input becomes the Y-axis. Trigger source and coupling are disabled in this mode.