

Probe Input Controls

CH-1 and CH-2 Similar

Connect Ground to CH-1 Input

Internal Only – Does Not Ground the Probe Tip

CH-1 Probe Input

AC / DC Couple CH-1 Input

CH-1

Trace Vertical Amplitude

CH-1

Trace Vertical Position

Pull to Invert CH-2

Used When CH-1 & CH-2
Are Added To Measure
The Amplitude Difference
Between Two Signals

Red Knob = Variable Adjustment of CH-1 Amplitude

- Fully Clockwise for Calibrated Dial Values
- Pull to Multiply Vertical Amplitude x5

CH-1 Trace ON/OFF

CH-2 Trace ON/OFF

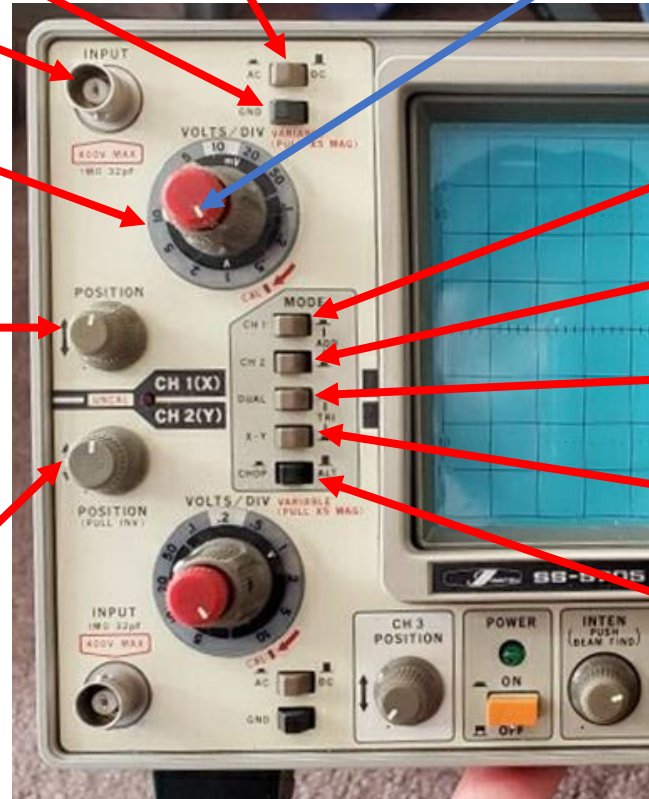
CH-1 & CH-2 Both Displayed

Trace Vertical Deflection = CH-1

Trace Horizontal Deflection = CH-2

Alternating CH-1 / CH-2 Display
Chop CH-1 / CH-2 Display

Add CH-1 & CH-2
Displayed as Single
Combined Trace



Trace Brightness Controls



Trace Brightness

Trace Focus

Trace Rotation
(Only if Needed)

Grid Illumination

Trace Horizontal Position

Small Knob = Fine Position

Pull Knob = x10 Horizontal Magnification

Horizontal Time Base Controls



A Time Base Speed
Use This For Most Purposes

B Time Base Speed
Advanced – Ignore for Now

A Variable Time Base Speed
Fully Clockwise For Calibrated Main Dial Values

Use A Time Base Control

Trace Brightness Intensified
By B Time Base
Advanced – Ignore for Now

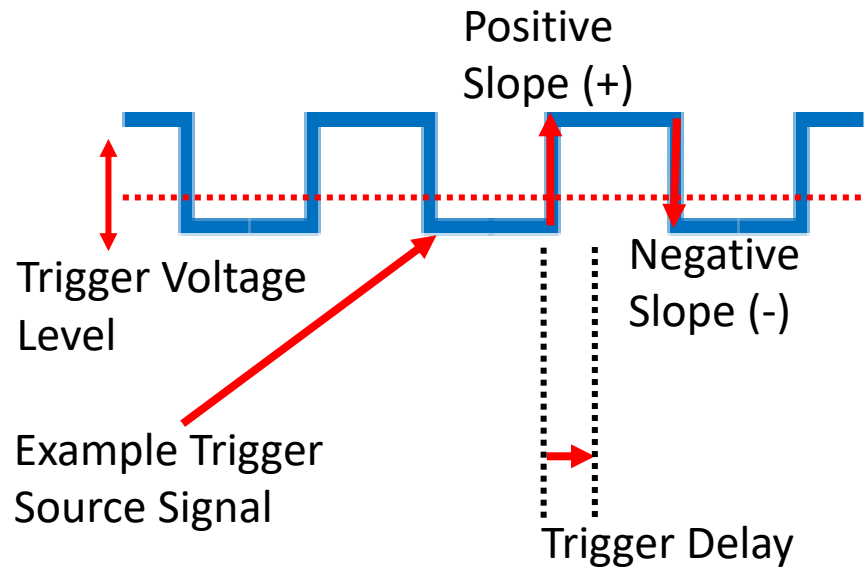
Use B Time Base Control
Advanced – Ignore for Now

Time Base Delay
Advanced – Ignore for Now

Trigger Controls

Used to Lock Oscilloscope Display to Selected Source Signal

Adjust Trigger Voltage Level
Pull to Trigger on Negative Slope of Signal



Special Trigger Control

Advanced – Keep in the Fully Anti-clockwise Position



Automatic Trigger

Scope Tries to Find Optimum Trigger Voltage
Useful for Quick Test, But Not Reliable

Manual Trigger

Use Level Control to Find Optimal Trigger Voltage

Single Shot Trigger Reset/Arm

Advanced – Ignore for Now

Trigger Source Coupling

- AC Coupling
- DC Coupling
- High Frequency Reject Sometimes Helps Lock Noisy Signals
- TV for Locking Video Signals

Trigger Source Select

- CH-1
- CH-2
- CH-3
- Lock to 60Hz Mains Electricity Frequency

Delay Trace Display After Trigger Signal
Used to See What the Signal is Doing Close to the Trigger Moment

CH-3 Input Controls

Typically Used as an External Sync Signal

Advanced – Ignore for Now



CH-3 Trace Vertical Position

CH-3 Probe Input
Fixed 0.5V / Division

Chassis Ground
Typically Used With
CAL Signal Output

AC / DC Couple CH-3 Input

Calibration Signal Output
1kHz / 0.3V p-p Square Wave
Used to Adjust Probe Equalization



Spare Slide for Future Use

