

# How To Test Scintillators and Bases

- 1) Make sure all the supply voltages are correct to the bases.
  1. For the four wire bases there should be a black ground wire, a blue 1.2v wire, a white .7v wire (variable) and a red 15v wire (15v can be from 12-18v, 18v maximum, 13-15v is recommended for best operation).
  2. For the two wire bases make sure that the supply voltage is 8v
- 2) Connect the bases to the power supply, the PMT, the oscilloscope.
- 3) Set the Oscilloscope to DC coupling, add a 50ohm terminator, and set the scope to 20-50mV and 10ns. The trigger should be around -10.5mV.
  1. If you still don't see a standing negative wave try pressing AUTO SET then using the same settings as above.
  2. When the trigger is lowered (-150mv) the wave should go away then make larger peaks at random intervals (signals from particles)