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)