V300SD TDC TIMING SENSOR
(800-SS-TDC)

Description:

The 800-SS-TDC sensor is used to provide the digital input signal for crankshaft RPM and Top Dead Center by monitoring the magnets on a crank trigger wheel. This signal, along with the firing pulse signal (tachometer input), is required for the data recorder to calculate the ignition timing.

Connecting the Sensor:

The TDC sensor connects to the V300SD recorder using the provided 6' long cable (280-CA-TIMV300S) to adapt it to the blue cable of the main wiring harness.

NOTE: On applications that do not monitor ignition timing the blue cable of the harness is used to connect the momentary (start recording) button. When monitoring the ignition timing the recording must be started using a monitored event (such as a specified engine RPM) or by adding a V-Net event module and momentary button to your recorder.

MSD Ignition Settings:

Using the MSD Graphview software, connect to the MSD Ignition box. In the Data Editor Tree, change the **CYLCNT** "TACH TRIGGER" to "TACH TIMING" then select **Save to MSD**

Sensor Installation & Adjustment:

Accurately place the crankshaft at top dead center on any cylinder.

It is your responsibility to fabricate a bracket that will mount the TDC sensor in alignment with the crank trigger wheel. The sensor should be installed with an air gap of .050" between the tip of the sensor and the magnet.

Start a real time telemetry session on your computer and display the Ignition Timing graph. At the same time have a timing light connected to your engine so you can check the timing with the light.

If the timing light and the Ignition Timing graph do not display the same number of degrees of timing, shut the engine off and adjust the TDC sensor clockwise or counterclockwise around the crank trigger wheel. Repeat the process until the two numbers are in agreement.