

## *Technical Service Notification*

**Date:** 11/1/2004

**Subject:** Ignition timing adjustment procedure for PSI generator engines

The purpose of this notification is to clarify the procedure for adjusting ignition timing on PSI spark-ignited generator engines using Electronic Spark Timing (EST) distributors.

Generator engines operate at either 1500 or 1800 revolutions per minute (rpm). Ignition timing on these engines is checked and adjusted at the generator's run speed. The PSI timing jumper is NOT used for checking or adjusting ignition timing on generator engines.

Note: Use extreme caution when checking and adjusting ignition timing. This procedure is performed with the engine running. Be aware of all moving components and keep all tools clear. Check with the equipment manufacturer for any additional procedures that must be followed to performed adjustments while the engine is running.

Procedure:

- 1.) Connect an electronic timing light to the No.1 spark plug wire. (The front cylinder on the 3.0L engine and the front cylinder on the left bank of the 4.3L, 5.0L and 5.7L engines.)
- 2.) Run the engine at the prescribed generator speed (1500 or 1800 rpm).
- 3.) Check the ignition timing at speed.
- 4.) Adjust the ignition timing to the proper specification for the run speed and fuel being used. Refer to the chart below. Note: The actual timing specification will need to be reduced in extreme operating conditions or for use of low quality fuel. PSI only recommends these specifications for use with fuels with the following energy content: 1015 BTU/ft<sup>3</sup> NG, 2650 BTU/ft<sup>3</sup> LP. PSI will not accept responsibility for engine damage caused by abnormal ignition.

### Timing Specifications:

Engine	3.0L	4.3L	5.0L/5.7L
Ignition Timing (Degrees BTDC)			
Generators 1800 RPM			
LPG	26	26	26
NG	36	36	36
Generators 1500 RPM			
LPG	23	23	23
NG	33	33	33

Please contact the PSI Service Department with any questions at 888-331-5764.