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Coding Information

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Title: PSI 8.8L LPG Hard Start Hot Due to Delayed Cranking

Applies To: PSI 8.8L LPG

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

07/19/2016 - Initial Article Release

DESCRIPTION

This document will guide the user through the proper starting procedure for engines that exhibit Hard Start / No Start or a short duration of Running Rough after start-up when hot.

This document replaces/retires: None

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
None	

Customer Observations or Concerns:

When engine/system is hot after purge cycle is complete

- Engine does not start
- Engine starts and stalls
- Engine starts and runs rough or misfires for a short duration after start-up

SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
PSI PowerLink			

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
None			

Parts Catalog – [Click Here](#)

DIAGNOSTIC STEPS

Please review **CHAPTER 01 - THEORY OF OPERATION** in the **PSI 8.8L Propane Diagnostic Manual**.

Possible Condition: After engine shutdown, LPG (Liquid Propane Gas) in the fuel lines evaporate into propane vapor. In order to operate the engine requires propane in a liquid state. To start the engine, the fuel lines must first be purged of propane vapor and replaced with LPG. Once the Wait To Start Lamp has turned off the purge cycle is complete and the engine may be started. Under certain conditions waiting too long after the Wait To Start Lamp has turned off can result in a Hard Start / No Start or a short duration of Running Rough due to the rapid evaporation of LPG in the fuel lines after the purge cycle completed. The increase in evaporation rate is directly related to the temperature of the fuel and fuel system components.

Step	Action	Decision
1	<p>DIAGNOSTIC:</p> <p>Perform section 2.3.1 Engine Hard to Start (Long Cranking Time) or Starts Then Stalls in the PSI 8.8L Propane Diagnostic Manual.</p> <p>Were any issues found?</p>	<p>Yes. Repair and retest for concern.</p> <p>No. Inform customer of starting procedure as outlined in <u>REPAIR STEPS</u> below.</p>

REPAIR STEPS

STARTING PROCEDURE:

1. Key On, monitor Wait To Start Lamp
2. WITHIN 5 seconds of Wait To Start Lamp turning OFF, start engine

Perform RE-PURGING AND STARTING PROCEDURE (below) if the engine is not started within 5 seconds of the Wait To Start Lamp turning OFF.

RE-PURGING AND STARTING PROCEDURE

1. Key Off for 10 seconds
2. Key On, monitor Wait To Start Lamp
3. WITHIN 5 seconds of Wait To Start Lamp turning OFF, start engine

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	15100 - Propane Fuel System
Noun:	643 - Hose, LP tank to Engine Fuel Rail

- Link to the Coding Manual: [Click Here](#)

Standard Repair Time(s):**SRT Table:**

Step	Repair	Model	Engine	SRT
NONE				

- Link to the Standard Repair Time Manual: [Click Here](#)

OTHER RESOURCES

[Master Service Information Site](#)

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