



**Field Service Bulletin**  
**CNG Fuel Pressure Regulator Troubleshooting**

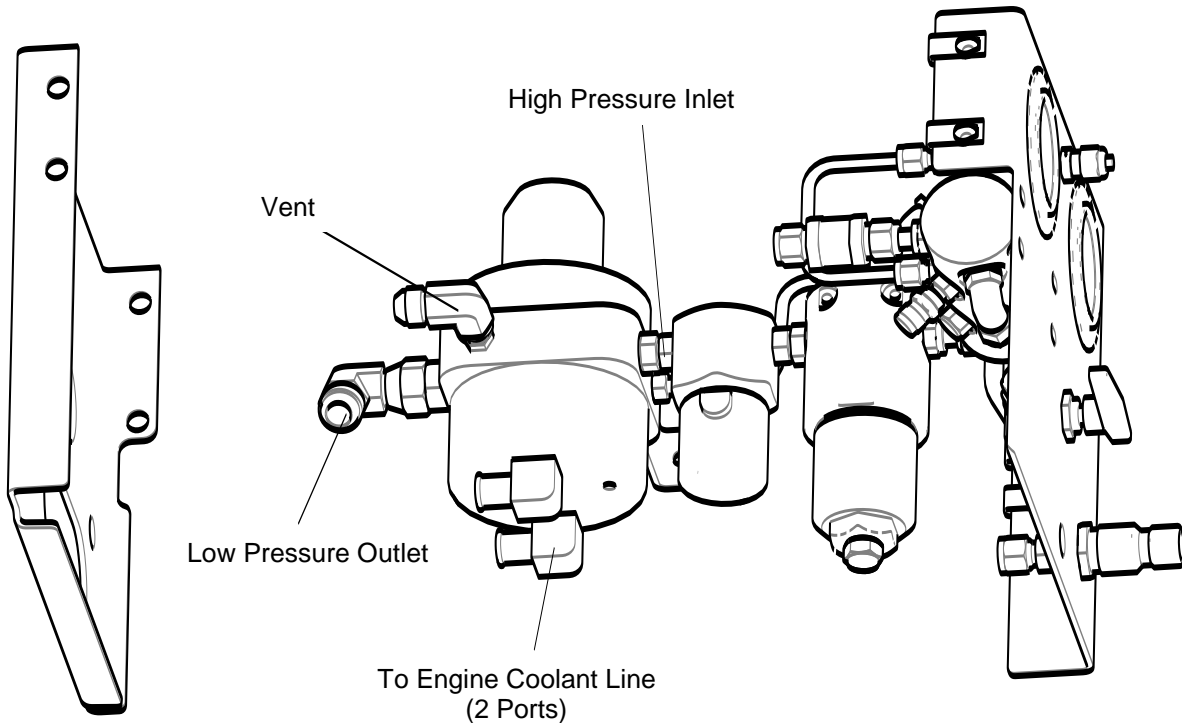
**ENP-088**  
**Rev. A: July 26, 2017**

## 1. Introduction

A properly operating fuel pressure regulator is mandatory for all CNG systems. High pressure gas (up to 3,600 psi) from the storage tanks is decreased for engine use (factory set to 125 psi). Engine coolant flows into the regulator to prevent the unit from freezing.

A rare failure mode in the regulator allows fuel to flow into the coolant stream, causing gas bubbles and increasing pressure in the cooling system.

A simple test can be performed on the regulator to detect gas leakage into the cooling system.



*Figure 1. Typical pressure regulator location and functions. Some parts are removed for clarity.*

## 2. Affected Units

This procedure applies to all CNG Agility Fuel Systems.

## 3. Corrective Action

Verify regulator function. If non-functional, replace with a new unit, the regulator is not field-servicable.

## 4. Make a Test Jig



*Figure 2. Pressure regulator test jig.*

Assemble the gauge and fittings as shown in Figure 2, or build a similar test setup to suit the system under test. The gauge is a 15 psi unit.

## 5. Test Procedure

1. System must have a tank pressure between 1500 and 3600 psi before starting the test.
2. It is not necessary to remove the regulator from the vehicle for this test.
3. Remove the maintenance cover from the fuel management module (FMM).
4. Defueling is **not** necessary for this operation.
5. It is **not** necessary to depressurize the system.
6. Clamp or pinch off the coolant hoses near the regulator and remove the connections going to the regulator.
7. Install the pressure gauge jig between the two coolant ports as shown in Figure 3.



*Figure 3. Pressure regulator test setup.*

8. Observe the gauge over a period of 20 minutes to see if there is any pressure in the regulator.
9. If pressure builds, replace the regulator -- the unit is not serviceable.

## 6. Warranty Information

Standard warranty terms apply. Standard repair time (SRT) is one (1) hour for CNG regulator removal and replacement, if needed.

If you have any questions, contact Agility Fuel Solutions Customer Care: 949-267-7745, toll free: 855-500-2445 or support@agilityfs.com.

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Revision	Description	Author	Approved	Date
--	Initial Release	W. Yoshida	Y. Coy	8/26/13
A	Revised company name and address, adjusted formatting	W. Yoshida	M. Meyer	7/26/17