



**IMPORTANT SERVICE  
INFORMATION FOR:**

- ✓ SERVICE MANAGER
- ✓ SERVICE ADVISOR
- ✓ TECHNICIAN
- ✓ PARTS DEPARTMENT
- ✓ WARRANTY PERSONNEL

BULLETIN NUMBER:  
**SB17-L-001**

ISSUE DATE:  
**APRIL 2017**

GROUP:  
**FUEL & EXHAUST**

## DIAGNOSIS FOR FUEL SUPPLY PUMP REPLACEMENT

### AFFECTED VEHICLES

- 2011MY to current Isuzu N-Series  
Equipped with 3.0L (4JJ1) Diesel Engines

### INFORMATION

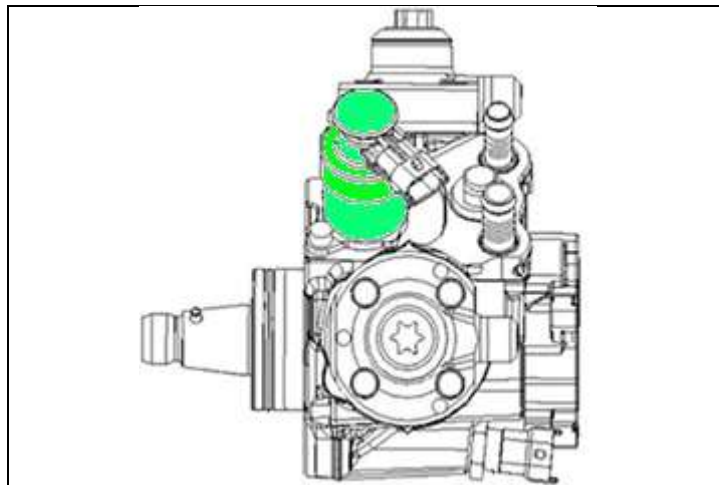
If the current diagnostic calls for the Supply Pump to be replaced, please perform the inspection procedures outlined in this bulletin. The purpose of the inspection procedure outlined in this bulletin is to prevent failures resulting from incomplete inspections conducted following a diagnosis calling for Supply Pump replacement.

### SERVICE PROCEDURE

Perform the following inspection before replacing a fuel supply pump.

Step	Action	Yes	No
1	<p><b>NOTE: Use care to prevent debris from finding its way into the Fuel Rail Pressure (FRP) Regulator port when Regulator is removed.</b></p> <p>Remove the Fuel Rail Pressure (FRP) Regulator from the Supply Pump (see Figure 1). Compare the Regulator to the image shown in Figure 2. Using a clean magnet, determine whether any debris present is magnetic.</p> <p>Was any magnetic debris found?</p>	Go to Step 2	Go to Step 4
2	<p><b>NOTE: Use care to prevent debris from finding its way into the Fuel Rail Pressure (FRP) Reduction Valve port when Reduction Valve is removed.</b></p> <p>Remove the Fuel Rail Pressure (FRP) Reduction Valve from the Fuel Rail (see Figure 3). Compare the valve to the image shown in Figure 4. Using a clean magnet, determine whether any debris present is magnetic.</p> <p>Was any magnetic debris found?</p>	Go to Step 3	Go to Step 5

3	Replace the following: <ul style="list-style-type: none"> <li>• Fuel supply pump</li> <li>• Fuel injectors, all</li> <li>• Common rail assembly</li> <li>• High pressure fuel pipes.</li> <li>• Fuel filter element</li> <li>• Pre-fuel filter / water separator</li> </ul> Have all the above parts been replaced?	Go to Step 6	–
4	Replace fuel supply pump and high fuel pressure pipes. Have the above parts been replaced?	Go to Step 6	–
5	Replace fuel supply pump, high fuel pressure pipes and common rail. Have the above parts been replaced?	Go to Step 6	–
6	Bleed air from the fuel system. Start the engine and check fuel and injection system for functionality. Did any DTC set?	Follow the DTC chart.	System is OK.



**Figure 1** Fuel Pressure Regulator location on Fuel Supply Pump



**Figure 2** Fuel Pressure Regulator with and without magnetic debris (Good part on left) (Bad part on right)



**Figure 3** Fuel Rail Pressure (FRP) Reduction Valve on Fuel Rail



**Figure 4** FRP Reduction Valve with magnetic debris (part is bad)

**WARRANTY INFORMATION**

The following labor operation information is provided for warranty claim submission.

Labor Operation	Description	Labor Time
J5950	PUMP, FUEL INJECTION (DIESEL) - Remove or Replace  ADD: FRP Regulator and Valve Inspection	See Published Time  0.3