

## **IMPORTANT WARRANTY INFORMATION**

### **AVOID SEVERE ENGINE DAMAGE & PREMATURE INJECTOR FAILURE**

#### **► NOTICE: NEW FUEL FILTER ADD ON REQUIRED**

MOPAR has introduced a new fuel filter kit, which offers superior filtering compared to the original equipment unit. GB requires proof of fuel filter replacement prior to any warranty coverage. Refer to Dodge TSB's numbers: 14-007-06 and 14-005-12. (MOPAR P/N: 68083853AA) for additional information.

#### **► SPECIAL 5.9L INSPECTION PROCEDURE**

- Contamination is common in the rail near the #5 and #6 injection line connections. Remove and inspect the #1 line fitting with a borescope. If any contamination is present, it is mandatory to replace the rail.
- High pressure fuel connector contamination and wear is common. It is recommended that you inspect and replace if needed. Contamination includes, but is not limited to; filter contamination, sealing surface wear, and signs of leaking.
- Inspect the return back-pressure valve in the injector return line connection banjo bolt for contamination. Clean or replace if needed.
- Inspect the injector bore for corrosion, damage or leakage prior to the installation of the injector.
- Ensure the injector is torqued to the manufacturers specification.

#### **► TIPS FOR IMPROVING INJECTOR LIFE**

Diesel fuel contamination is a major cause for premature injector failure. Contamination includes, but is not limited to; water in fuel, particle contamination, old fuel and poor quality fuel. It is extremely critical to avoid this, as the tolerances and clearances in the injector are measured in microns, which makes fuel purity paramount. Following the manufacturers service guide may reduce your chances of contaminated fuel from entering your vehicles engine.

Always replace the fuel filter with a new MOPAR approved fuel filter prior to the installation of your injector. Drain water monthly from the on-engine fuel filter. Waiting until the "Water in Fuel" light is illuminated is not acceptable, as this indicator may come on after water has entered the fuel system. Confirm that your filtration network is currently using the latest filter. See Dodge service bulletins 14-007-06 and 14-005-12.

**Injector failure as a result of any of these conditions is not covered by GB's limited warranty.**

**SEE BACK SIDE FOR ADDITIONAL INFORMATION**

## TECH BULLETIN: TB 110 - Continued

Also see GB's Tech Blog at [www.gbreman.com](http://www.gbreman.com) for helpful diagnostic tips & technical articles.

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#### ► COMBUSTION SEAL INSTALLATION

Failure to install the copper combustion seal or an improperly torqued injector can result in injector failure and engine damage. The copper combustion seal is included with GB's remanufactured injectors. See figure 1.

**Injector failure as a result of this condition is not covered by GB's limited warranty.**

- Ensure the copper combustion seal is present on the injector being replaced. If the seal is missing inspect the injector bore for seal and remove prior to installing replacement injector.
- If the injector being replaced shows signs of combustion seal leakage and the prior injector is missing the copper seal it will be necessary to replace the injector sleeve prior to installing the replacement injector. Failure to do so will result in leakage of the new combustion seal and injector failure.
- Always inspect the injector bore for corrosion, damage or leakage prior to installing new injector.
- Ensure injector is torqued to manufacturer's specification.

Figure 1 - Injector with Copper Combustion Seal



An injector installed without the copper combustion seal will result in hot combustion gases heating the injector's lower section, resulting in premature failure. If combustion gas leakage is present the injector sleeve must be replaced.

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