

Late Sprinter Injector Installation Tips



Perform a fuel system inspection prior to installation or replacement of Sprinter injectors for OM647 engines, model years 2004 – 2006 (part number DT270002R). If rust, contamination, or metal particles are found the fuel system must be cleaned including the tank, filter housing, supply lines, and the high-pressure system. **Failure to completely clean the complete fuel system can result in immediate or repeated short-term injector failures.**

INSTALLATION TIPS

1. Use caution when working on the fuel system to prevent injury. The high-pressure side of the fuel system is pressurized up to 23,200 PSI and the injector wiring high voltage is 80 volts. Make sure the engine is off, the high-pressure has bled down, and the engine has cooled off prior to working on the fuel system.
2. The Engine Control Module (ECM) should be updated to the latest calibration as part of the diagnostic and repair process.
3. D Tech fuel injectors have tolerances measured in microns. It is important to work in a clean manner to prevent contamination of the fuel system to prevent premature failures. Clean the engine area around the fuel system prior to removing any fuel system components. Before assembly inspect each component for dirt, grease, or other contaminants and clean as necessary.
4. Install a new fuel filter and do not fill it with fuel prior to installation.
5. Each injector has an injector characteristic code on the side of the stator. For each injector record the installation cylinder and the six digit alphanumeric code for entry in the ECM in step 14.
6. Make sure that the injector bore in the cylinder head is clean and that the old injector nozzle-sealing washer have been removed.
7. Lubricate the injector body with anti seize lubricant and install the injector into the cylinder head.
8. Use shop air to blow any debris and fluids from the hold down bolt hole in the cylinder head.
9. Install the hold-down bracket.
10. Install a new hold-down bracket bolt and tighten in two steps. Torque to 62 in-lb (7 Nm) and then tighten the bolt an additional 90 degrees rotation.
11. Install the injection lines and torque the injection line nuts to 195 in-lb (22 Nm).
12. Connect the injector electrical connectors to the injector stator connection.
13. Install the injector return connectors and hose.
14. When installing the engine cover insure the proper routing of the fuel injector return to prevent pinching or damage to the hose that can cause a fuel leak or a driveability issue.
15. Enter the injector characteristic code into the ECM following the procedure below. Failure to enter the code into the ECM may result in engine operation complaints.

(Continued on reverse side.)

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DIPACO PRODUCT INFORMATION

(Continued from front side.)

INJECTOR CODING PROCEDURE

1. Turn ignition switch ON.
2. Using a DRB III® select ENGINE then MISCELLANEOUS.
3. Select LEARN INJECTORS.
4. Using the up and down arrows, scroll to the appropriate injector.
5. Using the right and left arrows, set injector to proper code.
6. Once injectors are coded, cycle ignition to complete.



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