

Ford 7.3L Power Stroke Injector Installation Tips



Perform a fuel system inspection prior to installation of replacement injectors. 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.**

Grey camshaft position sensors (CMP) can cause erroneous cylinder contribution codes (DTC). The false DTC is usually set for #3 and #8 cylinders but can be any cylinder. Incorrect contribution DTC can also be set when the #8 cylinder injector type and the Powertrain Control Module (PCM) calibration do not match.

1999 model year engines with a serial number of 896812 or above use the DT730003R AD injector. It is optional to use the DT730004R AE injector in cylinder number eight to reduce an engine cackle noise.

When the DT730004R AE injector is used in #8 cylinder on engines with a serial number below 1311240, the PCM must be reprogrammed to the latest calibration to prevent a false contribution test DTC. Refer to Ford TSB 03-21-39 for more information.

INSTALLATION TIPS

1. Use caution when working on the fuel system to prevent injury. The injector wiring high voltage exceeds 100 volts.
2. DTech 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. Before assembly inspect each component for dirt, grease, or other contaminants and clean as necessary.
3. Change the engine oil and oil filter. Incorrect oil or oil with a depleted additive package will cause injector performance problems.
4. Install a new fuel filter.
5. Prior to removal of the injectors loosen the fuel drain plug and remove the oil drain plug on both cylinder heads.
6. The inboard injector hold-down bolt does not need to be removed when removing the injectors.
7. Make sure that the injector bore is clean and that the old nozzle-sealing washer has been removed.
8. Remove all oil and fuel from the cylinders before installing the injectors. Failure to do so can cause a hydrostatic lock and severe engine damage.
9. Lubricate the injector body o-rings with clean engine oil.
10. Insure the bead on the copper nozzle-sealing washer is facing the cylinder head.
11. Install the injector by hand pressure on the top of the injector. Do not strike the top of the injector or damage may result.
12. Install the outboard injector hold-down bolt and torque it and the inboard bolt to 120 in-lb (14 Nm).

(Continued on reverse side.)

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PRODUCT INFORMATION

(Continued from front side.)

- 13.** Install the oil deflectors and torque the retaining bolt to 120 in-lb (14 Nm).
- 14.** Install the oil plugs and torque to 53 in-lb (6 Nm).
- 15.** Tighten the fuel drain plugs.
- 16.** When bleeding the air from the fuel system do not crank longer than 30 seconds followed by a pause to let the starter cool. This helps to prevent damage to the starter.

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