



## STAR ONLINE PUBLICATION



**Case Number:** S181800024 REV. B

**Release Date:** August 2021

**Symptom/Vehicle Issue:** Diesel Fuel Injector Cleaning Procedure

**Discussion:** Some customers may experience a Malfunction Indicator lamp (MIL) Illumination with one or more of the following Diagnostic Trouble Codes (DTCs)

- P026D – Fuel Injection Quantity Higher Than Expected
- P026C – Fuel Injection Quantity Lower Than Expected
- P020A-00 Cylinder 1 Injection Timing-
- P020D-00 Cylinder 4 Injection Timing-
- P020B-00 Cylinder 2 Injection Timing-
- P020E-00 Cylinder 5 Injection Timing-
- P020C-00 Cylinder 3 Injection Timing-
- P020F-00 Cylinder 6 Injection Timing-
- P01CC-00 Cylinder 1 Injection Timing Performance - Over Advanced-
- P01D2-00 Cylinder 4 Injection Timing Performance - Over Advanced-
- P01CE-00 Cylinder 2 Injection Timing Performance - Over Advanced-
- P01D4-00 Cylinder 5 Injection Timing Performance - Over Advanced-
- P01D0-00 Cylinder 3 Injection Timing Performance - Over Advanced-
- P01D6-00 Cylinder 6 Injection Timing Performance - Over Advanced-
- P01CB-00 Cylinder 1 Injection Timing Performance - Over Retarded-
- P01D1-00 Cylinder 4 Injection Timing Performance - Over Retarded-
- P01CD-00 Cylinder 2 Injection Timing Performance - Over Retarded-
- P01D3-00 Cylinder 5 Injection Timing Performance - Over Retarded-
- P01CF-00 Cylinder 3 Injection Timing Performance - Over Retarded-
- P01D5-00 Cylinder 6 Injection Timing Performance - Over Retarded-

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

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In addition, a customer may also experience a rough run, poor idle, or misfire

If you receive a vehicle with any of the above conditions, follow normal published diagnostics for that concern. If you have determined that the root cause of the concern is due to deposits in the fuel injectors, please perform the repair procedure prior to replacing any injectors.

**NOTE: Contaminated fuel is not typically covered under warranty. Please follow all published warranty documentation pertaining to repairs due to fuel contamination.**

### Repair Procedure:

**NOTE: Upon completion of the scan tool initiated cleaning procedure, a scan tool initiated “Service Regeneration” must be performed followed by 30 minute key off cycle, and a 15 minute drive cycle**

**NOTE: The PCM must be at the latest available software to run the Fuel Injector Cleaning routine.**

1. Ensure that the fuel is free of any contamination. Refer to TechConnect/Service Library Service Information Section 14 – Fuel System> Fuel Delivery, Diesel> Standard Procedure> Diesel Fuel System Contamination for all current testing and cleaning procedures.
2. Add Mopar Diesel Fuel Injector Cleaning (P/N 68194640AA) to the fuel tank per the instructions printed on the bottle.
3. Drive the vehicle a short distance (parking lot) and stop aggressively several times to agitate the cleaner/fuel mixture in the fuel tank. (Slosh fuel mixture in the tank).
4. Safely drive the vehicle and perform several hard accelerations to further work the cleaner into the system.

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5. Ensure that the vehicle has reached minimum operating temperature of 180°F (82°C).
6. Park the vehicle in a safe location to run the cleaning routine.

**CAUTION:** The scan tool Fuel Injector Cleaning procedure **MUST** be run to completion. If it is interrupted, the engine will be fixed at an elevated idle. In the event that this happens, reinitiate the routine and either select “Start Injector Cleaning Procedure again or “Return to Base Idle Setpoint” if the procedure was already near completion.

7. Using Wi-Tech, navigate to PCM “Misc Functions” tab and initiate the “Fuel Injector Cleaning” procedure. Be sure to follow all scan tool instructions during the procedure. Be sure the procedure is fully completed before continuing to the next step
8. Using Wi-Tech, navigate to the PCM “Misc Functions tab, and initiate the “Diesel Particulate Filter Service Regeneration” procedure. Be sure to follow all scan tool instructions during the procedure.
9. Cycle the ignition off and let the vehicle sit for 30 minutes.
10. Turn the ignition on and clear all DTCs.
11. Drive the vehicle for 15 minutes at highway speeds to verify no other DTCs set.

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