



CAMPAIGN FOR:
F2 Injector field test - Part 1

DESCRIPTION:

PE is requesting the test of Injectors, for the F2 fuel system, on specific trucks.

INSTRUCTIONS:

See attached detailed instructions to remove and replace 6 Injectors with test injectors, install exemption label, and operate the trucks for 60k miles.

CAUSAL PART NUMBER: 22378579

UCHP SCC CODE: S7480

PARTS MARK UP: 30%

EXPIRATION DATE: 3/31/2021

UCHP LABOR CODES:

Labor Code - Description - Hours
2379-03-02-07 Engine Injector and Sleeve, Replacement (All), 6.4 SRT
2841-22-03-07 Engine Certification Label, Print and Replacement, 0.6 SRT
2339-03-02-01 Filter, water separator, replace, 0.3 SRT
2335-03-02-01 Fuel filter, replace (one) Included: Fuel system, bleeding, 0.3 SRT
1720-16-09-01 Campaign, General, 0.1 SRT (X15) 1.5 hours

PARTS LIST:

Parts List - Description - Quantities
Most of the parts needed will be shipped to the Dealer at no charge directly from PE.
Two parts not being shipped are listed below.
21764964, Primary fuel filter, \$30.48, QTY 1
22777560, Valve Cover Gasket, Lower, \$211.49, QTY 1

FOR MORE INFORMATION CONTACT:

Matt McVeigh matthew.mcveigh@volvo.com

US17 GHG Common Rail Fuel Injector Field Test

Test Summary:

The fuel injector field test will be conducted for 60K miles in the customer's normal operation / duty cycle. A secondary fuel filter with a new media material and extended capacity will be included in this test. Once an accumulation of 60K miles are acquired on the field test fuel injectors, parts will be removed and returned to Powertrain Engineering in Hagerstown, MD. A new set of production fuel injectors will be installed in the customer's engine at that time. Telematics must remain active throughout the complete test.

Parts supplied per engine:

- (3) pumping injectors
- (3) non pumping injectors
- (3) injector rocker arm adjusting screws
- (3) injector rocker arm adjusting screw lock nuts
- (3) left hand high pressure fuel lines
- (3) right hand high pressure fuel lines
- (6) injector sleeves
- (6) injector hold down bolts
- (6) injector hold down yokes
- (1) VCB oil tube
- (1) engine emission exemption label
- (1) label – contains contact information – to be installed on valve cover
- (2) secondary fuel filters

NOTE: Primary fuel filter, other miscellaneous items, and valve cover gasket (if determined replacement required) will be provided by dealership.

Instructions (Start of Test):

1. Verify the parts kit is for the correct VIN before starting repair.
 - a. The supplied parts kits are VIN specific due to the printed engine emission exemption labels. These parts can ONLY be installed on the pre-selected customer trucks.
2. Remove injectors and install supplied fuel injectors per Impact Operation ID 2371-03-02-02
 - a. The supplied injector rocker arm adjusting screws, lock nuts, and injector hold down yokes must also be replaced during this repair.
 - b. The removed injectors will be returned through normal warranty channels.
3. Replace secondary fuel filter (Powertrain supplied) and primary fuel filter (dealer supplied)

- a. Do not pre-fill fuel filters with diesel fuel, use the hand primer for priming the fuel system.
4. Remove engine emission label from the valve cover. Clean valve cover surface at the engine emission label location, install the new supplied engine emission exemption label.
5. Install the label with contact information on top side of valve cover where it can be clearly observed.
6. Clear all fault codes with Tech Tool, document engine hours and total vehicle mileage.
7. Reset cylinder balancing using operation 2387-08-03-01
8. Complete full LVD/OBD upload
9. Email the following information to ben.seville@volvo.com
 - a. Customer name
 - b. Complete VIN
 - c. Date of the parts installation completed
 - d. Vehicle mileage at the time of parts installation completed
 - e. Engine hours at the time of parts installation completed
 - f. Picture of installed engine emission exemption label
10. Place the additional secondary fuel filter inside the truck. Notify the customer / driver if a fuel filter replacement is required during this test, use the supplied secondary fuel filter and keep the secondary fuel filter that was removed.
 - a. The vehicle mileage will need to be documented if the secondary fuel filter is replaced.
 - b. If the secondary fuel filter was replaced before end of test, please return to the address provide in this document.
 - c. Email ben.seville@volvo.com with customer name, complete VIN and total vehicle mileage when secondary fuel filter was replaced.
11. Use SCC# S7480 to claim for the labor and miscellaneous items during field test parts installation.

Instructions (End of Test):

1. An email will be sent to the dealer contact and DSM stating the fuel injector field test has been completed. The vehicle can be scheduled in for service at the customer's earliest convenience to have the field test components removed.
2. Remove field test fuel injectors and install a complete set of production fuel injectors per Impact Operation ID 2371-03-02-02
 - a. All one time use components will also need to be replaced during this time. (injector sleeves, high pressure fuel lines, injector hold down bolts, pumping injector rocker arm adjusting screws, pumping injector rocker arm adjusting screw lock nuts, and VCB oil tube)
 - b. Plug and cap off the field test fuel injector with protective caps
 - c. Install field test fuel injectors in boxes for shipping
3. Remove secondary and primary fuel filters
 - a. Drain fuel from both fuel filters
 - b. Prepare filters for shipping by double bagging them in large Ziploc bags.
4. Install new OEM primary and secondary fuel filters

- a. Do not pre-fill fuel filters with diesel fuel, use the hand primer for priming the fuel system.
5. Remove the engine emission exemption label from the valve cover, clean area and install production emission label
 - a. Label will be shipped to dealer once they have been contacted the field test is complete
6. Remove label with contact information from the top of the valve cover and dispose.
7. Clear all fault codes with Tech Tool, document engine hours and total vehicle mileage.
8. Reset cylinder balancing using operation 2387-08-03-01
9. Perform full LVD/OBD upload
10. Email the following information to ben.seville@volvo.com
 - a. Customer name
 - b. Complete VIN
 - c. Date field test components removed
 - d. Vehicle mileage at the time field test components removed
 - e. Engine hours at the time field test components removed
 - f. Picture of engine emission exemption label removed and production engine emission label installed
11. Use SCC# S7481 to claim for labor and all production parts installed at end of the field test.
12. Return the following parts to the address listed in this document.
 - a. (6) fuel injectors
 - b. (6) injector sleeves
 - c. (6) high pressure fuel lines
 - d. (3) injector rocker arm adjusting screws
 - e. All fuel filters

Contact Information:

If there are any questions during repair or issues during customer operation, contact Ben Seville.

Cell number: 301-573-5546

Email: ben.seville@volvo.com

Return Shipping Address:

All the parts at the end of this test will be returned to the address below.

Volvo Group Trucks Technology

Attn. Ben Seville, Drop Area B3
13302 Pennsylvania Avenue
Hagerstown, MD 21742 USA