

# Electronic Pressure Relief Valve (EPRV) Delete & Fuel Rail Pressure Sensor Update

**Service Category** Service Department

**Section Function Group 237** 

**Technician Skill Level A** 

Market North America

#### **Applicability**

#### **VOLVO**

Model Years	Models
2018 - 2020	VAH/VHD/VN

#### Introduction

Volvo Trucks has identified through Remote Diagnostics that the vehicles in this Service Campaign have experienced faults with the Electronic Pressure Relief Valve (EPRV). To address this issue follow the repair outlined within this bulletin to remove the EPRV, inspect the Fuel Rail Pressure Sensor (FRPS) and wiring harness, followed by running an accessory kit to reprogram the vehicle.

#### **Production Change Information**

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	<b>Emission Level</b>	Starting Build Date	<b>Ending Build Date</b>
Volvo	D11/D13	EM-USA17, OBDEP-A/	14-November-2016	04-Mav-2020
VOIVO	מבט/בבט	OBDEP-B/OBDEP-C	14-110/10/10/10/10/10	04-1VIay-2020

#### Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.			
Claim Type (used only who	Claim Type (used only when uploading from the Dealer Bus. Sys.) <b>B</b>		
Labor Code	Description	Hours	
2373-01-09-01 (Main)	Valve, common rail remove	0.6 hrs	
1700-22-03-06	Accessory Kit, programming	0.1 hrs	
2841-22-02-01	ECM and ACM, Reprogramming	0.4 hrs	
2115-03-02-02	Valve Cover, Replacement	Use Impact Time (0.9 - 1.9 hr.)	
If Applicable			
2373-03-03-06	Pressure Sensor, Common Rail, Replacement, Valve Cover Removed	0.2 hrs	
2861-03-03-03	Wiring Harness, Injector, Replacement (Rear), Valve Cover removed	Use Impact Time (0.3-0.4 hrs)	
Causal Part	22720232		
SCC Authorization Code	S7568		



<b>Expiration Date</b>	Updated-December 31, 2023

#### **Parts Information**

Special Order Information if applicable

Configuration	Part Numbers	Part Names	Quantity
All	85156544	EPRV delete kit	1
If Applicable Parts (Reference Step 18)			
13L Engine Only	23488939	Pressure Sensor, F2 Common Rail	1
13L Engine Only	23502054	Wiring Harness, Rear	1
11L Engine Only	23488937	Pressure Sensor, F2 Common Rail	1
11L Engine Only	23502057	Wiring Harness, Rear	1

#### **Required Tools & Equipment**

• Premium Tech Tool (PTT) with latest version

• 88800634 - Wrench

#### **Calibration Information**

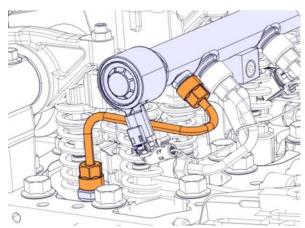
• Accessory Kit: **85156014** 

#### **Repair Procedure**

1. Refer to IMPACT document ID: 2115-03-02-02 Valve Cover, Replacement for valve cover removal procedure.

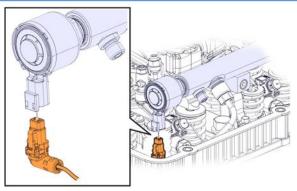
2. Loosen the cap nuts

3. Remove and discard the pipe.

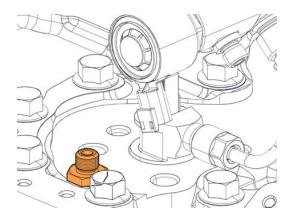


4. Disconnect the connector.



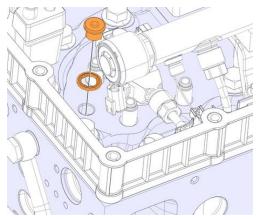


- 5. Clean the area around the fitting.
- 6. Remove the fitting and seal.



7. Install the seal and plug in the cylinder head.

Tightening torque	
Cylinder head, plug	36± 6 lbf-ft. (50 ± 8 Nm)

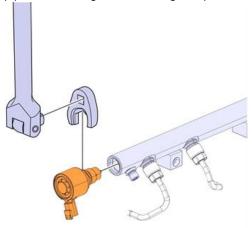


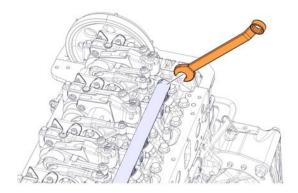
- 8. Install the tool. 88800634
- 9. Remove the valve.

Note: Use a spanner as a counterhold to prevent the common rail brackets and pressure



pipes from being loaded during component removal and installation.







#### CAUTION

Risk of personal injury.

Loose particles can spatter up and injure the eyes. Work with compressed air can cause hearing impairment.

Always wear safety goggles and hearing protection when working with compressed air.

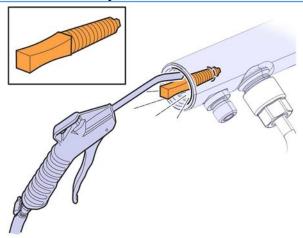
#### 10. Install the protecting plug.

Required material	
Protecting plug	88800527

#### 11. Clean the threads.

Note: Leave the protecting plug in place until installing the common rail plug.



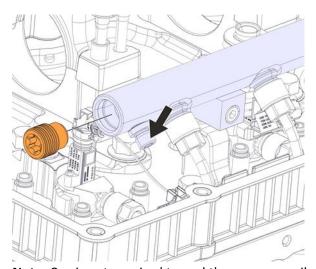


- 12. Remove the protecting plug.
- 13. Install the plug in the rail.

Note: Do not use locking fluid or thread sealant

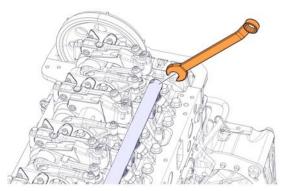
14. Torque tighten the plug.

Tightening torque	
Common rail, plug	92± 7 lbf-ft. (125 ± 10 Nm)



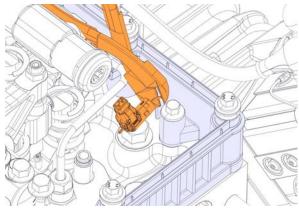
**Note:** Cap is not required to seal the common rail where the drain pipe connected.





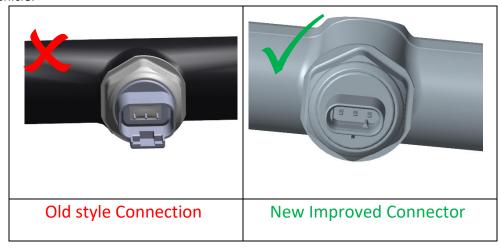
**Note:** Use a spanner as a counterhold to prevent the common rail brackets and pressure pipes from being loaded during component removal and installation

- 15. Cut the harness.
- 16. Remove connector and harness.



Note: Do not tape or seal the end of the harness

17. A product improvement has been made to the Fuel Rail Pressure Sensor (FRPS) and its wiring harness. A visual Inspection of the FRPS electrical connector will indicate which sensor and wiring harness is on the vehicle.





- 18. Inspect the FRPS, if the Old Style Connector is found (Displayed above with red X), replace the sensor and wiring harness per Impact Instructions listed below. If the New Improved Connector is found, no farther action is needed and proceed to next step.
  - a. 2373-03-03-06 Pressure Sensor, Common Rail, Replacement, Valve Cover Removed
  - b. 2861-03-03-03 Wiring Harness, Injector, Replacement (Rear), Valve Cover Removed
- 19. Refer to IMPACT document ID: 2115-03-02-02 *Valve Cover, Replacement* for valve cover install procedure.
- 20. Using PTT Operation 1700-22-03-06 Program accessory kit: **85156014 Note:** Running this kit without removing the ePRV will result in adverse vehicle affects.