



***TS PERFORMANCE***  
***WE ARE DIESEL***

# **Volvo 6 & 7L Common Rail Tier III Diesel Engines**

## **TSPO2VO**

Volvo D6E LBE3 & Volvo D7E LB E3

### **Installation Manual**

#### **Contents:**

MP-8 Module

TSP003 – 3 position switch

Di-Electric Grease

TSP01BO Harness

(4) Zip Ties

Shim Kit

- HP increase of 30%
- Decrease Fuel Consumption by up to 15%
- On-The-Fly Adjustable
- When removed leaves no trace of modification or foot prints

*Continued*

**Power increases as you turn the switch clockwise 0-30% over stock**

**Switch position as follows:**

**1<sup>st</sup> – stock**

**2<sup>nd</sup> – 15%**

**3<sup>rd</sup> – 30%**

## **Instructions for installation**

**Place Di-Electric Grease onto every electrical connection**



**Figure 2:  
Volvo  
Common  
Rail**

1.



**Figure 1: Fuel Pressure Sensor Connector**

te the fuel injection rail. It will be located on the side of the engine with six steel lines that run to the injectors.

2. Now locate the fuel pressure sensor. This will be found on the rail and will be the only connector that looks the same as the MP-8 harness.
3. Unplug the sensor; plug the connector from the engine harness in to the sensor.
4. Now plug the factory sensor in to the left over connector.
5. The kit comes with two 14" zip ties to mount the box in a dry cool location.
6. Locate and remove the Fuel Relief Valve. This kit includes a Separation tool and (3) .20" shims
7. Take valve and thread supplied nut tool onto valve. Then place valve in a vice, clamping down on sides of valve cap.
8. Use a wrench to unscrew supplied nut in order to remove valve cap. Be careful to hold end of valve while doing this! It is spring loaded and you don't want to lose parts!
9. Removing metal spring, then insert the two supplied metal shims into valve. 3 shims are supplied with your MP-8 module, however only 2 need to be used.
10. Replace valve spring and then cap. Note that there are 3 holes in a triangle position on the inside of the valve cap that does not need to be removed from cap and should face towards spring as it did when it was removed, hole alignment is not necessary.



**Figure 3: Fuel Relief Valve**



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11. Place valve back in vice, now with a thick piece of cardboard or piece of wood behind valve cap to prevent damage to the valve seal surface. Tighten vice so that the valve cap reenters valve until fully seated. No need to over-tighten; just tighten until snug.
12. Take a small punch and small hammer and re-apply the 3 factory indentations along the lip where the valve casing covers the valve cap. You may need to loosen the vice slightly to rotate the valve to access all 3 indentations, but do not let the spring push the cap out any! Make sure that the cap stays fully seated in valve while rotating. After doing so loosen the vice and make sure that the valve cap is held by the indentations. Then replace the valve back in your vehicle
13. Follow shim kit instructions on modifying Valve and then reinstall. Make sure to torque at 1
14. Route the cables away from any moving parts or places that might damage the cable with the 4" zip ties supplied.
15. The switch may be mounted in the cab or under the hood.



**DO NOT unplug the MP-8 Module while the engine is running. This may result in engine or component failure and may void warranty on the engine or MP-8.**

**If you have any questions contact TS Performance @ 270-746-9999**



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### **READ CAREFULLY BEFORE INSTALLING ANY TS PERFORMANCE PRODUCT**

**REMEMBER THIS IS A HIGH PERFORMANCE PRODUCT. USE AT YOUR OWN RISK. FOR OFF ROAD USE ONLY.**

**Do not use this product until you have carefully read the following agreement.** This agreement sets forth the terms and conditions for the use of the TS Performance product. The installation of this product indicates that the buyer has read and fully understands this agreement and accepts its terms and conditions.

#### DISCLAIMER OF LIABILITY

TS Performance, its distributors or dealers shall in no way be responsible for the product's proper use and service. The buyer of this system hereby waives all liability claims. The buyer acknowledges that he is not relying on the seller's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the buyer hereby waives all remedies or liabilities, expressed or implied arising by law or otherwise, (including without obligations of the seller with respect to fitness, merchantability and consequential damages) or whether or not occasioned by the seller's negligence.

The seller disclaims any warranty and expressly disclaims any liability for personal injury or damages. The buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the buyer agrees to indemnify the seller and to hold the seller harmless from any claim related to the item of the equipment purchased. Under no circumstances will the seller be liable for any damages or expenses by reason of use or sales of any such equipment.

The seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt the manufacturer is to be contacted.

#### LIMITED LIFETIME WARRANTY

##### **STATEMENT POLICY**

- The warranty policy is the best warranty within the high performance diesel industry.
- All **TS Performance** products have been inspected, tested and trial in the factory laboratories and on the field.
- Nothing in this Statement of Policy shall alter or enlarge the terms of warranties, obligation or liabilities of these products.
- **TS Performance** is not responsible or liable for any products damaged or destroyed due to improper installation.

##### **TERMS OF WARRANTY**

- The defective product must be freight prepaid and returned to **TS Performance** for further investigation, otherwise this warranty shall be deemed null and voided and of no effect.
- This warranty is void on any products that show evidence of misapplication, negligence, improper installation, and abuse, lack of proper maintenance or alternation from its original design.
- In no event will **TS Performance** be liable for any consequential or incidental damages for breach of any express or implied warranty on the product.
- This warranty is not transferable or assignable.
- **TS Performance** is not responsible or liable for any products damaged or destroyed due to improper installation
- **.IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT IN A NEW ANDN UNUSED CONDITION WITH A DATED PROOF OF PURCHASE TO THE PLACE OF PURCHASE WITHIN TEN (10) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND.**

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**TSPERFORMANCE**  
**Products and Other Info found on the**  
**[WWW.TSPERFORMANCE.COM](http://WWW.TSPERFORMANCE.COM)**

**FOR TECHNICAL SUPPORT**  
**(270) 746-9999**



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