



# **TS PERFORMANCE**

## **WE ARE DIESEL**



## **Propane Installation**

### **TS Performance Propane System**

**Each kit should include:**

(1) Regulator w/ Lock off	(1) 5/8 Barb to 5/8 Barb
(1) Bulk Head fitting	(3) AN Ferrule fittings
(1) Hobbs pressure switch	(1) 12 volt on/off switch
(1) 12 volt indicator light	(4) 1/2 hose clamps
(1) 1/4 hose clamp	23 ft. of LP hose
5 ft. of Heater hose	3 ft. of 1/4 Vacuum hose

*Continued*

**\*\*VERY IMPORTANT\*\***

**READ ALL INSTRUCTIONS BEFORE ATTEMPTING TO INSTALL THE TS  
PERFORMANCE PROPANE SYSTEM**

**\*\*WARNING\*\***

It is extremely important that a Brand New *LIQUID* Propane Tank be used with our system or Warranty will be **VOID**

Once the system is installed do not turn tank on and off because of possible contraction and expansion on hose.

Operating temperature range on hose is -40 to +250 F

Max operating pressure 350 psi

Minimum burst pressure 1,750 psi

**\*\*\*New regulator may make some noise when being used for the first few times\*\*\***

Due to the variance in trucks being single cab, extra cab, or crew cab, we have supplied excess hose that you will have to cut. Note that you will also need part of the length of hose provided to reach from the regulator to the bulk head fitting on the air intake. The AN fittings supplied are for you to add to the ends of the hose you cut.

AN Fittings

The Ferrule is left hand thread and it is to be threaded onto the hose. Then you will have to thread the connection fitting into the ferrule and hose. Use a WD-40 or any penetrate oil on the threads. If you have any questions or concerns contact us at (270-746-9999)



**Installation Instructions for TS Performance Propane System**

*Continued*

This kit is a universal system for Ford, Chevy, and Dodge Diesel Motors. Installation of the regulator can vary in mounting locations depending on locations in engine compartment. On some models you may have to fabricate a bracket to mount the regulator.



Shown is a '03 Dodge Cummins 5.9L Motor (Fig 1)

First locate where you are going to mount the TS Performance propane regulator. A good open location where you will have plenty of space is optimal. Also keep in mind how you will route the hose to your air intake and back to the bed for the propane tank.



(Fig 2)

**Ford** – The best mounting location for the regulator on the Power stroke is on the driver's side engine compartment. You will have to fabricate a bracket to mount the regulator to.

**Chevy** – The best location to mount the regulator would be on the passenger side of the engine compartment on the fire wall. You will need to make a bracket of sort to mount the regulator to.

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**Dodge** – The best mounting location to mount the regulator is on the passenger inner fender well.

After mounting your regulator you must find a location on your air intake for the propane to be injected into. The propane must be injected after the stock air filter or into the air intake tube. The bulkhead fitting must be able to seal to keep air from escaping.



(Fig 3)

Shown above is the Bulkhead fitting in an aftermarket (AFE) air intake system. A one inch hole needs to be drilled out for the bulkhead fitting to thread into. When threading the bulkhead fitting into the hole, use a thread sealer of your choice to make sure the hole is air tight. From the Bulkhead fitting the hose will run to the “out” connection on the regulator.

The vacuum hose will need to be placed in the air tube between the turbo and the Bulkhead fitting.

Next you will need to plumb your hot water to the regulator. Supplied you will find there is a 5 ft. section of heater hose line to use for this step.

**Below is the suitable way of running hot water to the regulator.**

**Ford** – On the front of the Power stroke motor above the water pump there is a feed line that goes to the heater core. Remove that line and run it to the regulator. Then run the supplied hose from the front of the motor to the regulator, and connect it to the water fitting above the water pump.

**Chevy** – On the passenger side of the engine compartment (on the firewall) you will see where the hot water lines come out of the heater core. Either one of these lines is where you want to get your hot water from.

**Dodge** – On the passenger side of the engine compartment you will see the hot water lines. The top hose you will need to run to the regulator. Then from the regulator run the supplied hose section to the stock location.

*Continued*



Fig 5

Using your LP hose, you will need to run hose from the regulator to the propane tank. Connect the LP hose to the Lock off on the regulator using the supplied fittings already applied to the hose and run the line back to your propane tank making sure to connect the line to the liquid side of your propane tank.



Fig 6

You will now need to drill and tap for the air pressure switch. The drill size is  $21/64$  and the tap size is  $1/8$  NPT-27. It is recommended that Teflon tap or thread sealant be used on the threads. Also make sure to get any metal shavings out before you connect the switch.

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After mounting the air pressure switch you will need to wire the system so that the propane will come on correctly. Run one of the wires from the lock off on the regulator to one side of the air pressure switch. Run the other wire off the lock off to a ground source. Then you should use the same side of the air pressure switch that the lock off wire goes to, to run another wire that will go into the cab, this wire will go to one side of the light mounted in the dash. A ground wire will run off the other side of the light. Then from the other side of the air pressure switch you should run another wire that will go to one side of the switch in the cab. Then from the terminal left on the switch find a 12 V key-on source.



Again for the TS Propane System to operate correctly, you must use the liquid side of the propane tank. Also the truck needs to be up to operating temperature (200 degrees) before running the propane system. This is due to the hot coolant you need to run through the regulator to vaporize the propane. If you have any more installation questions or concerns, give us a call at (270) 746-9999.

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## **DISCLAIMER**

### **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.**

**THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTATNDNS THIS AGREEMENT AND ACCEPTST ITS TERMS AND CONDITITONS.**

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

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



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