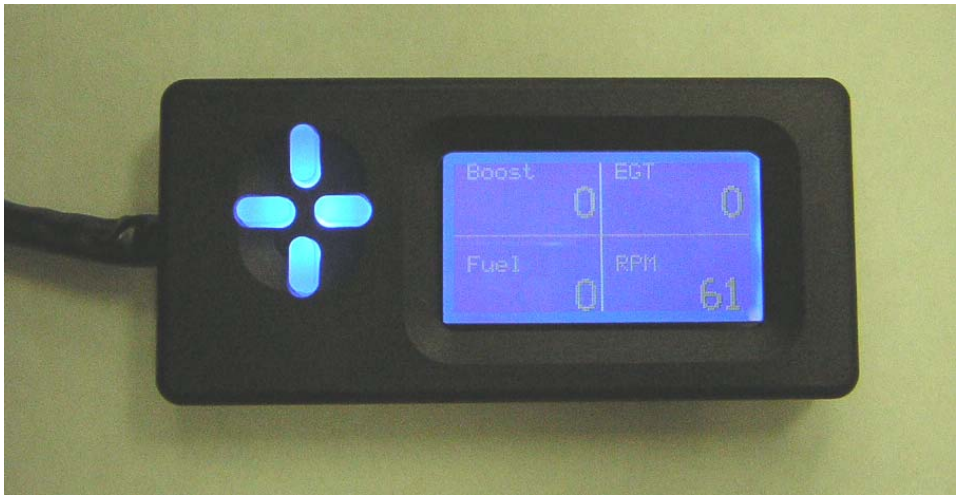
TS PERFORMANCE

WE ARE DIESEL

TS Performance Products



MP-D

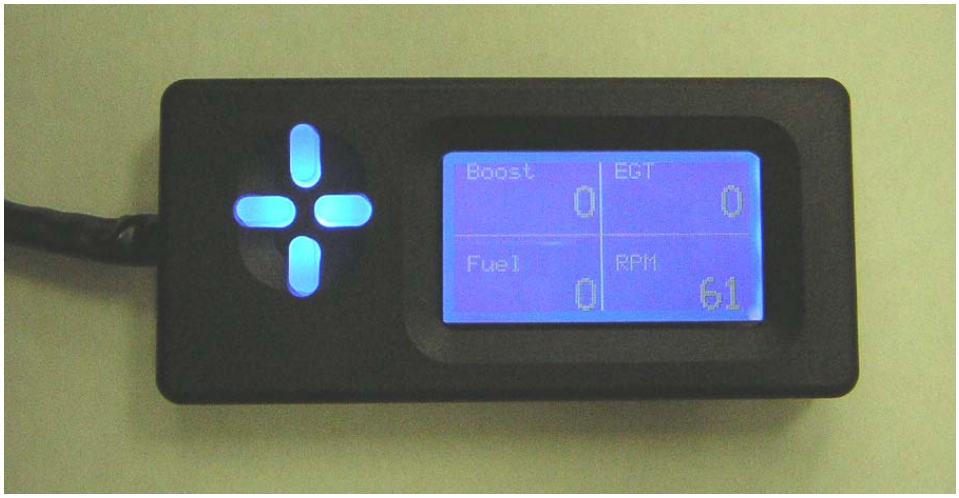
Thank you for buying the MP-D. Here you will learn how to install this MP-D into your truck, and we guarantee that you will be satisfied with our product. Before you get started check to make sure that you have everything below in the contents that came in the box

Monitor and Heads-up Display Operation and Installation Manual

Continued

TSMPDw/MP-DHU
Operation of MP-D Monitor
Using the Monitor

1. Before driving the truck you will need go to the setup menu and select the proper vehicle file.
2. To access the set-up menu press the right button.
3. Then Choose select vehicle and select your application
4. Use the up and down buttons to scroll through the menu.
5. Use the right button to go to next menu and to select item
6. Use the left button to go back to the previous menu.
7. Once the vehicle has been selected you will need to set the “Disp. Brightness” and the “HU Brightness”
8. Next you will need to set the “Alarms”. This is to be used to set the minimum or maximum in each gauge that way an alarm will sound if you exceed the set amount.
9. Now set the Heads-Up Display how you want it by selecting “Invert HUD”. With it set as Heads-Up mode it will shine onto the windshield. If you choose to invert the Heads-up it can be pointed toward the driver.
10. From Main menu shown below use the left button to see the min and max values logged form last time started. If shut off will loose min and max values stored in monitor
11. From Main menu use the Up and Down button to scroll through the four readings to change what is projected on the heads-up display



Harness Goes to Left as Shown

Continued

Installation of TS Performance MP-D Monitor

Once you remove the monitor and Heads-Up Display from the box you will need to decide on a mounting location. We suggest mounting the monitor in a location that can be reached from the driver's seat or use the optional windshield mount to mount display on the upper corner of the windshield. The Heads-Up Display should be mounted on the dash pointed toward the windshield. Find a location that will not obstruct the driver's vision. We mount them in the left lower corner of the windshield. For best viewing place the tint piece about an inch from the bottom of the windshield to reduce glair.

1. Separate the Red wire and the Black wire from the rest of the wire harness. These two wires will be used for power and ground later.
2. Run the rest of the wires through the firewall. If you have gray wire it is not being used at this time so cut it to get out of the way.
3. Be sure to route the wires away from heat and moving parts.
5. Connect the Red wire to a 12 volt power source with the key in the on position. This should not have power going to it with the key in the off position.
6. Connect the Black wire to a constant ground.
7. Connect the wire harness to the Monitor and Heads-Up Display and tie the wires up securely.
8. If you have and after-market exhaust fitted with a pyrometer fitting you can insert the supplied probe into it. If not, you will need to drill and tap the exhaust manifold on the driver's side from underneath. You will need to use an "R" or 11/37 drill bit and a 1/8 NPT 27 tap. Make sure to use a small magnet to remove the metal shavings before starting the truck.
9. Now connect the pyrometer wires to the Yellow and Green wires coming from the harness. Connect Red-Green and Yellow-Yellow using the supplied bolt and washer and heat shrink as shown in the picture above.
10. The last step is to connect the wires for the boost, fuel pressure, and tachometer.
11. Below look up the type of truck you are installing one to finish install.

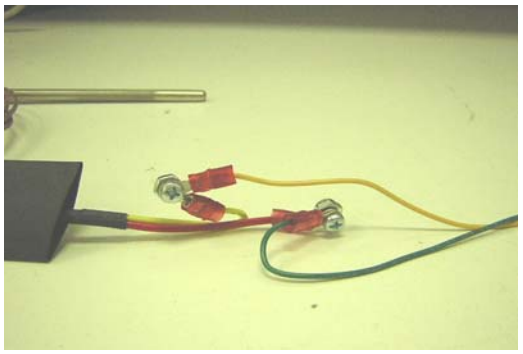


Figure 1: Pyrometer Hook up

Note: Place a small amount of silicon RTV on the T-taps on all connections made under the hood. This will insure that the connection is water tight and resist corrosion

Continued

Application Specific Instructions:

Please skip to the application specific instructions for your application.

Ford 7.3L

1. Locate the Cam Position Sensor on the front of the engine beside the CAM. It can be accessed from under the truck. Route the white wire from the wiring harness to the CAM Positions Sensor. Remove the loom going to the connector. You will need to use the supplied T-tap to connect the white wire from the harness to the bottom wire on the connector (usually green).

2. Locate the ICP Connector on the driver's side valve cover. Route the Purple wire in the wire harness to the ICP connector. Using the supplied T-tap connects the purple wire to the middle wire towards bottom on the ICP plug as shown below.

3. Locate the MAP Sensor on the passenger's side firewall. Route the Blue wire from the wire harness to the MAP Sensor. Using the supplied T-tap connects the blue wire to the middle wire in the MAP Sensor Connector.

Figure 2: Cam Position Sensor

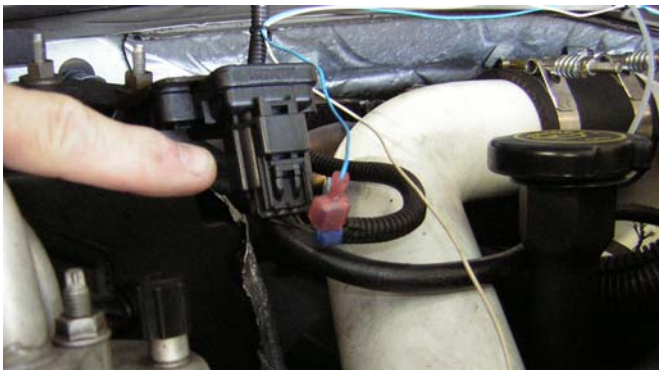


Figure 3:MAP Sensor Connector

Figure 4: MAP Sensor

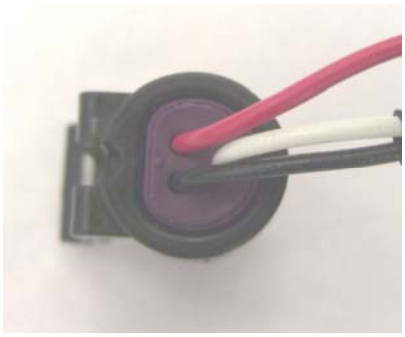


Figure 5: Middle wire across from the clip (white wire in picture above)

Ford 6.0

1. Locate the computer next to the battery on the driver side of the engine compartment. You will need to remove the battery for better access to the computer.

2. Find the middle connector, remove the black plastic cover on the back of the connector. Locate the dark blue wire in pin # 30. Using the 4 wire transformer provided, you will connect the blue wire from the transformer provided to this wire using a t-tap. Connect the Yellow wire from the transformer to the white wire on the harness going to the MPD. The Red wire will connect to a 12V power source and the Black wire is a ground.

3. On the same middle connector as above. Locate the dark blue wire w/ green tracer in pin #29. Connect the purple wire from the MPD harness to this wire using a t-tap.

4. Find the A connector on the computer. This connecter will be the larger of the two next to the middle connector. Remove the black plastic cover on the back of the connector as you did before. Locate the light green wire w/ black tracer in pin # 41. Connect the blue wire from the MPD to this wire using a t-tap.

Dodge 03-07 5.9L

1. Locate the Crank Position Sensor on the front of the engine. It can be accessed from under the truck. Route the White wire from our wire harness to the Crank Sensor. Using the supplied T-tap connects the white wire to the Outside wire towards front of truck on the Crank Sensor connector.

2. Locate the Fuel Pressure Sensor on the driver's side of the valve cover. Route the Purple wire to the Fuel Sensor and using the supplied T-tap, connect it to the middle wire in the connector.

3. Locate the MAP Sensor on the driver's side of the valve cover. Route the Blue wire to the MAP Sensor and connect it using the supplied T-tap, connect to the outside wire TOWARD the driver side.

Figure 7 : MAP Sensor Location

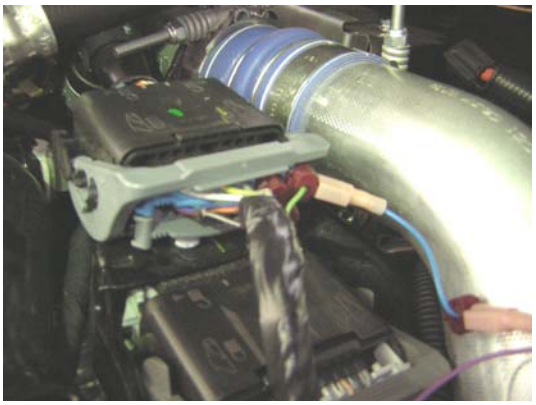
Figure 8 : Fuel Pressure Sensor Location

Dodge 6.7L

1. Locate the Crank Position Sensor on the front of the engine. It can be accessed from under the truck. Route the White wire from our wire harness to the Crank Sensor. Using the supplied T-tap connects the white wire to the Outside wire towards front of truck on the Crank Sensor connector.
2. Locate the Fuel Pressure Sensor on the driver's side of the engine. IT is the connector on the back of the fuel rail with the three pin connector. Route the Purple wire to the Fuel Sensor and using the supplied T-tap, connect it to the middle wire in the connector.
3. Locate the MAP Sensor on the intake air plenum on the driver's side of the engine. The MAP sensor is located on the back side of this plenum and will have a three pin connector. T-Tap the brown wire farthest to the driver's side of the connector.

Duramax LB7, LLY, LBZ

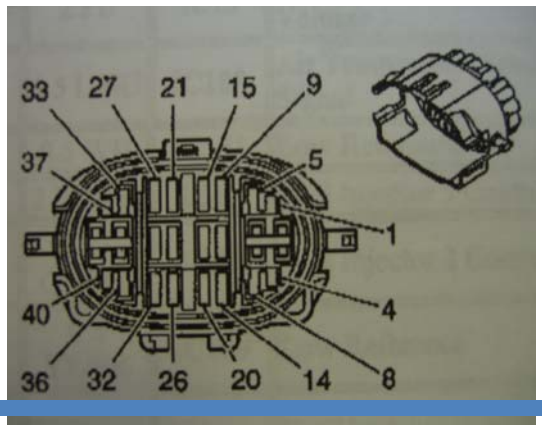
1. Locate the Engine Harness Connector on the driver's side of the engine. This will be the larger of the two connectors. Route the white wire from our wire harness to the connector. Use the supplied T-tap to connect it to the blue wire with a white tracer. It will be identified as B9 in the connector. The wires are labeled A-D from the bottom to the top and 1-12 from the front of the truck to the rear.
2. Locate the Fuel Pressure signal wire in the Engine Harness Connector. Route the Purple wire to the Engine Harness Connector. Connect it to the Yellow wire in location C5. The wires are labeled like explained in step 6.
3. Locate the MAP Sensor signal wire in the Small Engine Harness Connector. This is located just above the lager Engine Harness. Route the Blue wire to the harness and connect it to the Light Green wire in location C8. The wires are labeled A-C from the bottom to the top and 1-12 from the front to the rear.



Duramax LMM

1. Locate the Fuel Rail Pressure Sensor in the lower Black Engine Harness Connector. Using the Harness diagram supplied the Fuel Rail Pressure., it is a yellow wire, located in Pin 23. Connect the Purple wire from our harness to this pin using the T-tap Connector
2. Locate the MAP Sensor Connector in the same harness. It is a light green wire, located in Pin 18 Connect the Blue wire from our harness using the T-tap connector.
3. Locate the Tack wire in the same engine harness . It is a white wire with a black tracer, located in Pin 17. Connect the White wire from our harness using the T-tap connector.

Figure 9: Main Harness Connectors



If there are any questions on the product or installation of the module give us a call at TS Performance (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 sellers 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 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 breech 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.

Continued

TS PERFORMANCE
Products and Other Info found on the
WWW.TSPERFORMANCE.COM

FOR TECHNICAL SUPPORT
(270) 746-9999

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