

# PERFORMANCE MODULE

# MACH 7



## INSTALLATION INSTRUCTIONS

### HYPERMAX ENGINEERING

\*\*\*PLEASE READ THESE INSTRUCTIONS BEFORE PROCEEDING\*\*\*

Thank you for your purchase of the MACH 7 Performance Module. The MACH 7 is designed to plug into the vehicle's engine control module and will increase vehicle performance and fuel economy, this is a result of many hours of engine dynamometer testing and vehicle evaluation. To avoid any costly mistakes in the installation, please read these instructions first, then follow the instructions and proceed.

**Read and understand all disclaimer and warranty information before installing this product.**

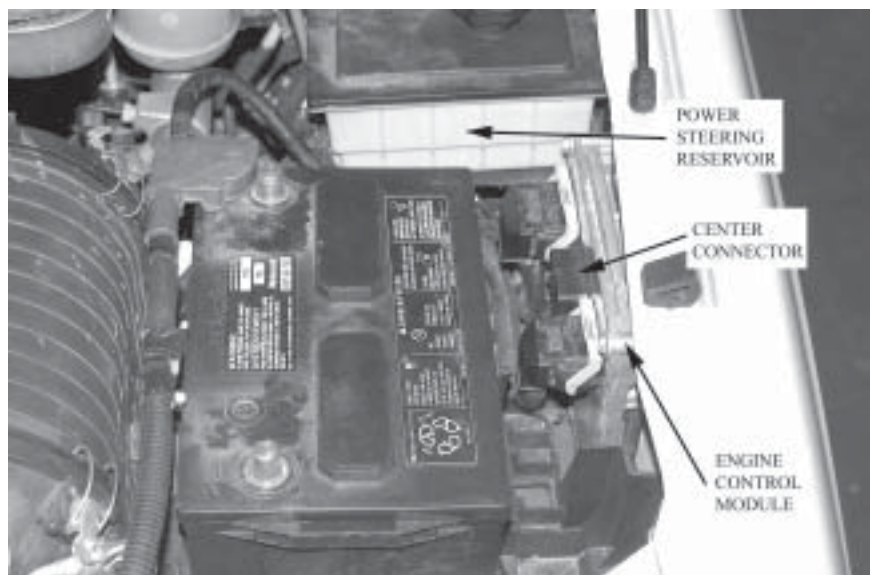
The MACH 7 may cause the engine exhaust gas temperature to exceed the maximum recommended temperature of 1250°F at the turbine inlet, without the optional exhaust enhancements. Therefore it is recommended that the exhaust manifold temperatures be monitored. Hypermax Engineering offers a optional thermocouple for this application.

**APPLICATION :** 6.0 Liter F-Series 2003 - 2007

**LOCATION :** LH battery box as depicted in illustrations.

#### REMOVAL :

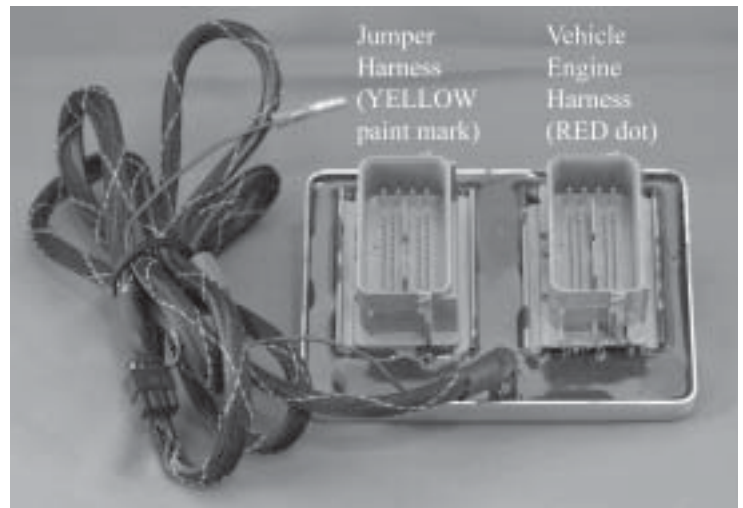
1. Disconnect both battery ground (negative) cables. Failure to do so will damage the engine control module.
2. Remove the driver's side battery cover. Locate the engine control module.
3. Remove the center connector, see figure 1, and re-route this cable to the MACH 7 Engine Harness Module.



**FIGURE 1**

## INSTALLATION OF THE MACH 7 ENGINE HARNESS MODULE

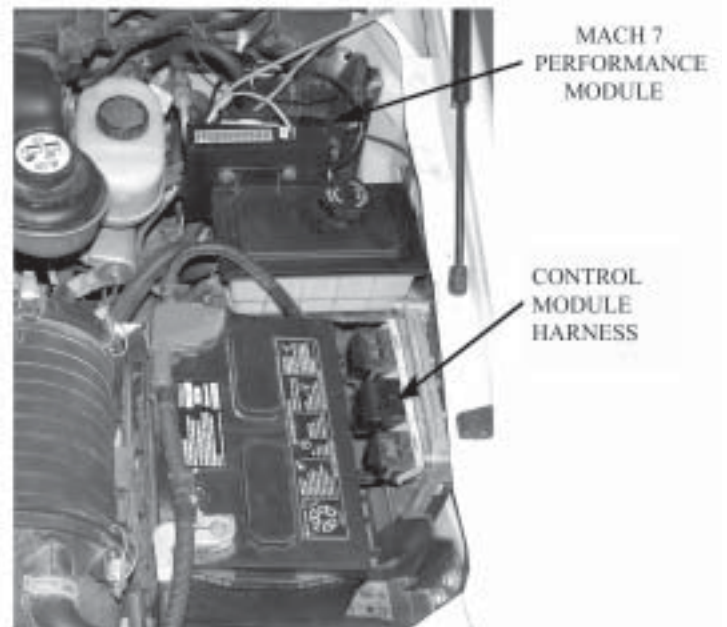
1. Connect the jumper harness to the MACH 7 Engine Harness Module, figure 2. The connector and receptacle have a yellow mark on them.
2. Connect the vehicle harness to MACH 7 Engine Harness Module, figure 2, on the connector with the red dot.
3. Connect the jumper harness to the center connector of the engine control module, see figure 3.
4. Using the supplied zip ties, secure the Engine Harness Module and jumper harness.
5. Route the MACH 7 Engine Harness wire thru the firewall and into the cab. This will connect to the MACH 7 box.
6. Install the battery box cover.
7. Connect the battery cables.



**FIGURE 2**  
**MACH 7 Engine Harness Module**

## INSTALLATION OF THE MACH 7 CONTROL MODULE

1. Mount the MACH 7 Control Module, figure 4, under the vehicle dashboard.
2. Connect the engine harness from the MACH 7 Engine Harness Module to the plug labeled Engine Harness.
3. Connect the 7 position rotary power level switch, figure 7, to the plug labeled Table Switch. This switch should be mounted to the dashboard.
4. If a thermocouple is installed, connect the thermocouple connector cable, figure 5, to the plug labeled T.C. Connect the other end to the thermocouple lead wire.



**FIGURE 3**  
**2003 - 2004 Vehicle**



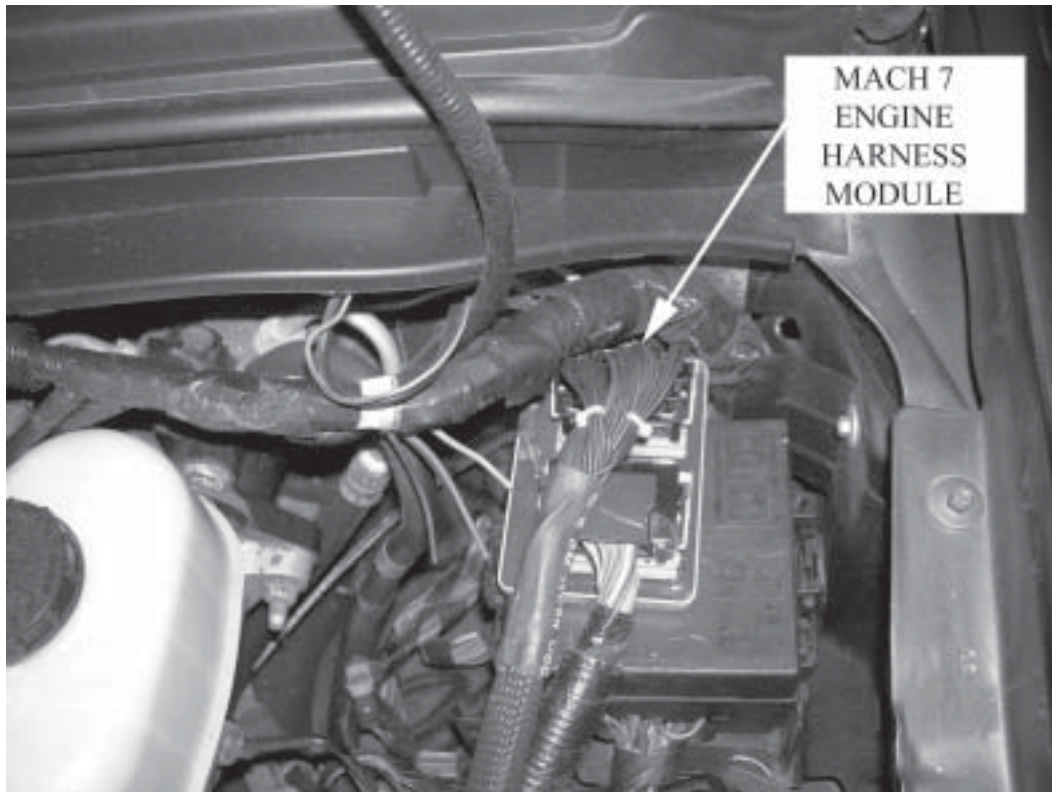
**FIGURE 4**  
**MACH 7 Control Module**

### STATUS LIGHTS:

- PWR - Green light when powered up.
- ALV - Flashing green light, System alive.
- RLY - Green light on settings 1-7.
- T.C. - Green light when thermocouple is connected.



**FIGURE 5**  
**7 position rotary switch and  
thermocouple connector cable**



**FIGURE 6 (2005-2007 VEHICLE)**

The MACH 7 has a 7-position rotary power level switch, as shown in figure 5. The settings are stock, fuel economy mode, 25hp, 50hp, 75hp, 100hp, 125hp, & 150hp. The MACH 7 is equipped with Exhaust Gas Temperature fuel cutback. The MACH 7 will cutback the fuel program so that 1250 degrees Fahrenheit exhaust manifold temperature is not exceeded. This feature is activated when a thermocouple is installed at the exit of the drivers side exhaust manifold and connected to the MACH 7. The MACH 7 is supplied with a yellow thermocouple wire for this vehicle connection. To achieve the position 7, the MACH 7 must be connected to a thermocouple. If a thermocouple is not connected, position 7 will be the same as position 6.

#### **NOTES**

1. The MACH 7 should be removed before servicing the vehicle.
2. The MACH 7 affects the transmission. It may take up to 100 miles of driving for the transmission to “learn” to adapt to the MACH 7. As the vehicle goes through the learning process, shift quality may seem compromised. Continue normal driving and the transmission will become “comfortable” with the MACH 7.
3. The use of the MACH 7 may void or raise vehicle warranty issues. If you are not agreeable to this possibility, return the MACH 7 for a refund.
5. The MACH 7 may be equipped with unused wires. These are provided for future options.
6. DO NOT use di-electric grease on any of the MACH 7 electrical connectors.

**DO NOT ATTEMPT TO REMOVE THE MACH 7 OR ANY ENGINE OR RELATED HARNESS WHILE ENGINE IS RUNNING, AS SEVERE ENGINE DAMAGE WILL RESULT.**

#### **-CAUTION-**

**USING THIS PRODUCT WITHOUT FREQUENT EXHAUST MANIFOLD TEMPERATURE MONITORING CAN RESULT IN A CATASTROPHIC ENGINE FAILURE. IT IS THEREFORE NECESSARY TO UTILIZE AN EXHAUST PYROMETER INSTRUMENT CAPABLE OF MEASURING EXHAUST MANIFOLD TEMPERATURE UPSTREAM OF THE TURBOCHARGER.**

**UNDER NO CIRCUMSTANCES SHOULD THE EXHAUST MANIFOLD TEMPERATURE EXCEED 1250°F.**

Check our internet web site out for new and exciting products to enhance the performance of your vehicle.  
Our home page is located at [www.gohypermax.com](http://www.gohypermax.com) our e-mail address is [info@gohypermax.com](mailto:info@gohypermax.com).



**DISCLAIMER OF LIABILITY**

**This agreement sets forth the terms and conditions for the use of this product. The installation of this product indicates that the buyer has read and understands this agreement and accepts the terms and conditions.**

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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 Buyers hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise, (including without any obligation of the Seller with respect fitness, merchantability and consequential damages) or whether or not occasioned by the Seller's negligence

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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 contact the manufacturer.

Performance enhancing devices, if misused or utilized to excess, may cause a reduction in vehicle component life. Vehicle manufacturers may at their discretion, refuse to warranty failures allegedly caused by such devices. Refer to the warranty policy provided with your vehicle.

**IN THE EVENT THAT THE BUYER IS NOT WILLING TO ACCEPT THE POSSIBLE CONSEQUENCES OF THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND 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.**

**LIMITED WARRANTY**

All Hypermax, Engineering, Inc. non-competition products or merchandise are warranted to be free from defects in material and workmanship, under normal use and service for a period of one year (365 days) from date of delivery to the initial end user.

Hypermax Engineering, Inc.'s liability under this warranty is limited to repair or replacement at its option, subject to the provisions set forth herein, of any parts which upon examination by Hypermax Engineering, Inc. are found to be defective. The user shall prepay cost of transportation of defective parts to Hypermax Engineering, Inc. for inspection.

Hypermax Engineering, Inc. shall not have any responsibility under the warranty unless the defect results in a claim arising within the operational periods listed above, the part was properly installed, normally maintained and not subject to misuse, negligence or accident, and the parts, system components and/or accessories were not repaired or altered in such a way that, in the judgement of Hypermax Engineering, Inc. its performance or reliability was adversely affected.

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**THIS REPRESENTS THE COMPLETE WARRANTY OFFERED BY HYPERMAX ENGINEERING, INC. AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTING, EXPRESSED OR IMPLIED, INCLUDING ANY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO BIND HYPERMAX ENGINEERING, INC. TO ANY WARRANTY OR TERMS NOT SET FORTH HEREIN.**

**RETURNED GOODS**

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