INSTALLATION INSTRUCTIONS FOR DODGE/JEEP MODULE

ENGINEERED FOR POWER

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Information about your...



PERFORMANCE MODULE

The Jet Performance Module is designed to enhance the performance and drivability of your vehicle. By optimizing the air/fuel ratio, ignition advance and various other parameters. The Jet Module retunes your engine for maximum performance.

JET STAGE 1 MODULE:

The Jet Stage 1 Module is optimized for stock vehicles. Minor bolt on modifications such as free flow air filters and cat back exhaust systems will work with the stage 1 tuning. Premium fuel is recommended for best performance gains, but for normal light driving, lowgrade or midgrade fuels may be used.

JET STAGE 2 MODULE:

The Jet Stage 2 Module is optimized for modified vehicles. The stage 2 requires premium fuel and the use of a Jet 180 degree thermostat. We also recommend a cat back exhaust system. The stage 2 will work well with headers, free flow air intake systems and filters.

For vehicle specific instructions, see page # listed:

89-95 Dodge/Jeep Trucks pgs. 3 - 5

96-03 Dodge/Jeep Trucks
4.0, 4.7, 5.2, 5.9 pgs. 6 - 9

04 & up Dodge/Chrysler Passenger Cars
2.7, 3.5, 4.7,
5.7 Hemi, 6.1 Hemi pgs 10 - 15

03 & up Dodge/Jeep Trucks
2.4, 3.7, 4.0, 4.7,
5.7 Hemi, 6.1 Hemi pgs 16 - 18

03 & up PT Cruiser pgs 19 -21

INSTALLATION PROCEDURES

1. Disconnect negative battery cable.
   NOTE: Ram Pickup 89-93 - remove battery.
2. Locate the stock ECU (see chart below).

ECU LOCATION CHART		
1989-1995	Dakota	#1
1989-1993	Ram Pickup	#2
1994-1995	Ram Pickup	#3
1991-1995	Cherokee	#4
1993-1995	Grand Cherokee	#5
1991-1995	Wrangler	#6

#1 = Passenger side inner fender, under hood
#2 = Drivers-side under hood inner fender panel (behind battery)
#3 = Under hood on passenger side of firewall
#4 = Under hood drivers side inner fender well
#5 = Under hood passenger side on firewall

3. Remove the stock wiring harness by loosening the bolt in the center.

4. Install the supplied bolt extension into the stock computer.

5. Plug the Jet Module into the stock computer.

6. Reinstall the factory wiring harness into the Jet Module and tighten down the bolt (if equipped).

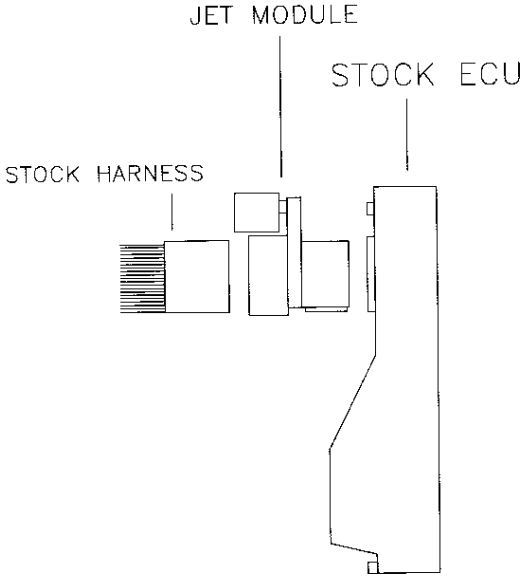
7. Reinstall battery if needed or reconnect battery cable.

8. Start the vehicle. Verify that the "service engine" light **IS NOT ON**. Go drive the vehicle for a few miles and verify everything is working properly.

9. Wrap insulation, make sure to press the tar tape down around the module making a tight seal.

10. In the event that you have a problem go to troubleshooting on page 22.

NOTE: THE JET MODULE IS WATER RESISTANT, NOT WATER PROOF. TO ENSURE THE BEST SEAL, MAKE SURE YOU WRAP THE MODULE ENTIRELY WITH THE INSULATION!
WARNING: DO NOT PRESSURE WASH AROUND THE MODULE!


JET MODULE
STOCK ECU
STOCK HARNESS

INSTALLATION INSTRUCTIONS FOR DODGE/JEEP MODULE 1996-2003



INSTALLATION PROCEDURES

1. Disconnect negative battery cable.
2. Locate the stock ECU (see chart below).

ECU LOCATION CHART		
1996-2003	Dakota	#1
1996-2003	Ram Pickup	#3
1996-2003	Cherokee	#4
1996-2003	Grand Cherokee	#5
1996-2003	Wrangler	#5

#1 = Passenger side inner fender, under hood
#2 = Drivers-side under hood inner fender panel (behind battery)
#3 = Under hood on passenger side of firewall
#4 = Under hood drivers side inner fender well
#5 = Under hood passenger side on firewall



Photo 1

3. **Remove the ECU from the firewall**.

4. There are 3 color coded connectors (black, white & grey) remove the **BLACK** connector (see photo 1).

NOTE: SOME APPLICATIONS WILL REQUIRE REMOVAL OF A DUST COVER. THIS WILL NOT REINSTALL WITHOUT MODIFICATIONS.

5. Plug the Jet Module into the stock computer. Ensure the module is inserted all the way into the stock connector.

6. Slide the lock on the backside of the module until fully clipped down (see photo 2).

Photo 2



7. Reinstall the ECU.

8. Install the supplied O ring over stock ECM connector, make sure it is completely seated up to the last lip on connector (see photos 3 & 4).

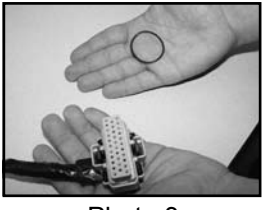


Photo 3



Photo 4

9. Reinstall all factory wiring harness into the Jet Module and computer (see photos 5 & 6).



Photo 5

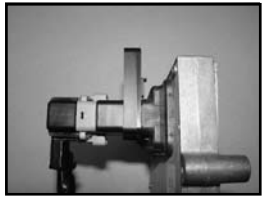


Photo 6

10. Reinstall battery if needed or reconnect battery cable.

11. Start the vehicle. Verify that the "service engine" light **IS NOT ON**. Go drive the vehicle for a few miles and verify everything is working properly.

12. In the event that you have a problem go to troubleshooting on page 22.

INSTALLATION INSTRUCTIONS FOR DODGE MODULE

2004-UP DODGE / CHRYSLER PASSENGER CARS ALL ENGINES



INSTALLATION PROCEDURES

1. Disconnect the negative battery cable.
2. Locate the stock ECU. (see chart below)

ECU LOCATION CHART		
2004-UP	300C	#1
2007-UP	Avenger	#1
2008-UP	Challenger	#1
2006-UP	Charger	#1
2005-UP	Magnum	#1
2003-2005	Neon	#2

#1 = See steps below
#2 = Below Factory Air Intake, Proceed to Step 6

3. The ECU is located on the passenger side of the engine compartment between the fender and the firewall underneath a plastic cover. (see photo 1)



Photo 1

4. Remove the 2 plastic clips securing the plastic cover. (see photo 2)

Photo 2



5. Remove the bolt securing the ECU retaining bracket. (see photo 3)



Photo 3

6. Carefully remove ECU from it's mounting location. (see photo 4) For Dodge Neon owners after removing the Factory Air Housing, next remove the bolts holding the ECU to the vehicle

Photo 4



7. Disconnect the wiring connectors by pressing/squeezing down on the red release buttons on the top of the connector. Remove all the connectors from the ECU. (see photo 5)

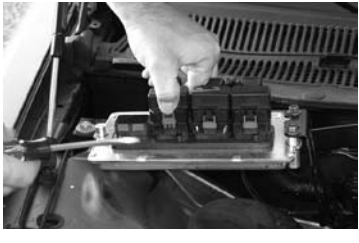
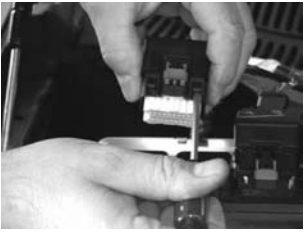


Photo 5

8. **Remove the dust cover off back of wiring harness from the third connector from the mounting bracket by lifting on 4 tabs with a small screwdriver.** (see photo 6)

Photo 6



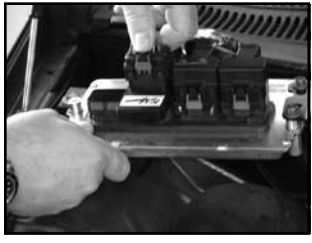
9. Place the ECU on a flat surface and install the JET module into the white connector on the ECU as shown. (see photo 7). You will need to press the module firmly into place for proper connection. Make sure the module is fully seated and is not crooked in the connector.



Photo 7

10. Reinstall the connector into the Jet module and secure the red clip. (see photo 8)

Photo 8



11. Reinstall the ECU into it's mounting location. The ECU with the module installed is a tight fit, so be careful with the wires. Secure the mounting bracket and plastic cover.

12. Reinstall negative battery cable.

13. Start the vehicle and verify "service engine soon" light ***is not on***.

14. In the event of a problem go to troubleshooting on page 22.

INSTALLATION INSTRUCTIONS FOR DODGE/JEEP MODULE 2003-UP TRUCKS



INSTALLATION PROCEDURES

1. Disconnect negative battery cable.
2. Locate the stock ECM (See chart below).

ECM LOCATION CHART	
2003-UP DODGE RAM	#2
2003-UP DAKOTA / RAIDER	#1
2003-UP DURANGO / ASPEN	#1
2003-UP JEEP ALL (EXCEPT BELOW)	#1
2003-06 JEEP WRANGLER	#1
2007-UP DODGE NITRO	#1
2007-UP JEEP WRANGLER	#3

#1 = Passenger side inner fender, under hood
#2 = Under hood on passenger side of firewall
#3 = Drivers side inner fender, under hood

3. Remove the 4 color coded harness from ECM. (See photo 1)
4. **Remove ECM from vehicle.**
5. Install JET module onto ECM, connector color is white. (See photo 2)
6. Reinstall ECM into vehicle.
7. Reinstall the 4 stock connectors to the ECM.
8. Reinstall the negative battery cable.
9. Start the vehicle. Verify the "service engine soon light" ***is not on***.

10. In the event of a problem, contact JET Performance Technical Support at 714-848-5515

Photo 1

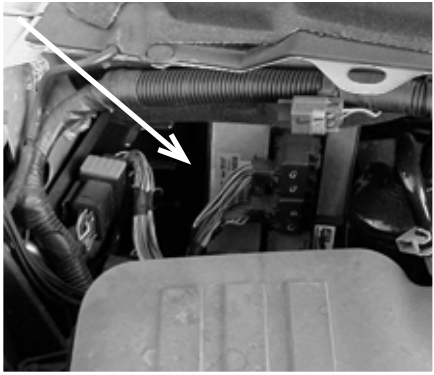




Photo 2

INSTALLATION INSTRUCTIONS
For PT Cruiser 2003-Up
All Engines



1. Disconnect negative battery cable.

2. Locate the ECU with 4 wiring connectors wich is mounted to the driver side firewall.

3. Unlock the wiring harness on the third connector from the left by sliding the red lock back. Then depress the release button located on the top of the wiring harness and remove the wiring harness from the computer. (see photo1)



Photo 1

4. Plug the module into the computer making sure it fully seated and locked into place. (see Photo 2)

Photo 2



5. Plug the factory harness into the Jet module. The wiring harness will lock onto the Jet module. Slide the slide lock forward to lock the wiring harness. (see photo 3)

6. The completed installation should look like photo 4.

7. Reconnect the negative side terminal of the battery. Start your vehicle and make sure the "service engine soon" light ***<u>is not on</u>*** and the vehicle is running normally.



Photo 3



Photo 4

TROUBLESHOOTING GUIDE...

Most computer or module problems are due to poor electrical contacts. If you have a problem, try the following:

1. Disconnect the negative battery cable, unplug the factory harness and the Jet Module.

2. Inspect both the factory parts and Jet Module for any bent or broken pins, dirt or contamination. Fix any minor problems you find.

3. Reinstall the module, harness, battery cable and recheck for the service engine light or any drivability problems.

4. If the problem still exists ...
   Contact the Jet Technical Department at (714) 848-5515

If these fail to correct your problem - - -
DO NOT CONTACT THE DISTRIBUTOR YOU PURCHASED IT FROM OR GO BACK TO THE CAR/TRUCK DEALER - CALL THE JET TECH LINE AT (714) 848-5515.

WHAT TO DO BEFORE TAKING YOUR VEHICLE IN FOR SERVICE

If a problem occurs that may require you to take your vehicle to a mechanic or dealership for service, first remove the JET Performance Chip or Module and reinstall back to stock. If the problem disappears when you remove the JET Performance Product, call JET and we will troubleshoot the product. However, if returning to stock does ***not*** cure your problem, there is nothing wrong with your JET Performance Product and you will need to have your vehicle serviced.

Anytime a diagnostic machine is to be used, the vehicle must be back to stock. Diagnostic machines expect to find the original stock program and often cannot correctly analyze the problem if other devices are installed. Failure to reinstall your system back to stock can result in unnecessary and costly repairs not covered by JET. Before you have any work done on the vehicle that you feel may have been related to the JET Performance Chip or Module, please call JET at 714-848-5515.

Limited Warranty

JET Performance Products warrants Chips and Modules to be free from defects in material and workmanship under normal use and if properly installed. This limited lifetime warranty is to the original purchaser for as long as he or she owns the vehicle on which the product was originally installed, provided all information requested is furnished. If found to be defective as mentioned above, it will be replaced or repaired at the sole discretion of JET if returned prepaid along with proof of date of purchase.

All other products and services performed by JET are warranted in defects in material and workmanship for a period of 6 months from date of purchase. This warranty is to the original purchaser for as long as he or she owns the vehicle on which the product was originally installed. Repair, Replacement, or Credit will be based on the date of purchase. Costs for labor are specifically excluded and are the sole responsibility of the purchaser.

This warranty does not apply to Custom Programming or any product incorrectly installed, modified by the purchaser, or to any product that has been subjected to misuse, negligence or accident.

To obtain warranty service and Return Authorization Number, contact our Customer Service Department at 714-848-5515 between 8 am and 5 pm Pacific Standard Time, Monday through Friday

Defective Products may be brought or sent prepaid (with Return Number) to JET Performance Products, 17491 Apex Circle, Huntington Beach, CA 92647.