GM 4.3L Trucks
GENERAL PREPARATION

1. Turn OFF all power draining accessories; Radio, Cell Phone chargers, A/C, etc.

2. Turn your headlights off when programming your vehicle for added safety against battery failure. See your owner’s manual for vehicle specific information regarding your headlights.

3. Your vehicle may be equipped with daytime running lights and/or sensors that turn the headlights on automatically while the ignition is on. Please check your owner’s manual for the proper procedure on temporarily disabling these lights to eliminate this extra drain on your battery during the programming process. This is sometimes done by pressing the “dome override” button two to four times or in the case of automatic headlights turning the headlight switch to the left.

4. Temporarily disable OnStar (If equipped)

To help prevent any disruption of the programming procedure you will need to temporarily disable the OnStar system in your vehicle. To accomplish this you will need to remove one or more fuse(s) associated with the OnStar system. The fuse panel will be located under the hood on the driver’s side behind the battery.

When the OnStar system is disabled, the indicator light (on the dash or rearview mirror) will not be lit. Double check to make sure that this light does not come on while the key is in the ON position (engine not running).

For 2001-2002 Vehicles  Remove the following fuses:
SEO1 (Special Equipment Option, On Star)

NOTE: For 2001-2002 GM VEHICLES: If the previous step did not turn off the OnStar light on the dash you will need to remove these four fuses from behind the fuse block access door on the drivers side edge of dash.

SEO IGN (Special Equipment Option, Ignition)

For 2003-2005 Vehicles  Remove the following fuses:
INFO (Vehicle Communications Interface module)
RADIO (Entertainment System)

NOTE: For 2003-2005 GM VEHICLES: If a failure occurs during the reading of the stock program you will get an error message "STOCK READ FAILED" turn the ignition key to the off position, unplug the programmer and remove the following fuses: FROM THE FUSE BLOCK UNDER THE HOOD Remove:
TBC BATT (Body Control Module)
TGC IGN 1 (Body Control Module)

FROM THE FUSE BLOCK LOCATED ON THE DRIVERS SIDE EDGE OF THE DASH Remove:
SEO ACCY (Special Equipment options/Accy)
TBC 2A (Body Control Module)
TBC 2B (Body Control Module)
TBC 2C (Body Control Module)
TBC ACCY (Body Control Module)
INSTALLATION INSTRUCTIONS OVERVIEW

Your vehicle has an onboard computer that controls the engine and transmission. The JET programmer reprograms your factory computer according to your specifications with JET Performance Products Tuning.

To reprogram your vehicle’s computer, simply plug the programmer cable into the vehicle’s diagnostic connector, located under the dash panel on the driver’s side. Set the parking brake. Next, turn the ignition key to RUN but do not start the engine. It will then identify your vehicle and ask a series of questions on its LCD screen.

When completed, turn the key to OFF and disconnect the cable from the diagnostic connector. Now you’re “Engineered for Power”.

JET Performance Product’s tuning can be stored in only one vehicle. When you install JET Performance Product’s tuning program into your vehicle, the programmer reads and stores your vehicle’s factory programming. You can use the Programmer to restore your stock programming if it should ever become necessary.

You may also reconnect your programmer at any time to modify the programming. Simply reconnect the JET Performance programmer, answer the necessary questions, and program your vehicle.

PROGRAMMING INSTRUCTIONS

1. Locate the Data Link Connector (DLC) under the driver’s side of the dash panel.

2. Plug the Programmer cable into the DLC. Make sure the cable is plugged in completely to ensure a good connection.

3. Set the parking brake to turn off the DRLs (DayLight Running Lamps)

IMPORTANT:

• DO NOT LEAVE THE VEHICLE WHILE PROGRAMMING IS IN PROGRESS.

• MAKE SURE THE VEHICLE BATTERY IS FULLY CHARGED BEFORE PROGRAMMING.

• THE KEY MUST REMAIN IN THE RUN POSITION, WITHOUT THE ENGINE RUNNING, DURING THE ENTIRE PROGRAMMING PROCESS.

• IF THE VEHICLE HAS BEEN PROGRAMMED USING ANOTHER MANUFACTURERS PROGRAMMER, YOU MUST RETURN THE VEHICLE TO STOCK PROGRAMMING BEFORE USING THE JET PROGRAMMER.

• DO NOT DISTURB OR UNPLUG THE CABLE UNTIL THE PROGRAMMER INSTRUCTS YOU TO DO SO.
• DO NOT OPERATE ELECTRICAL ACCESSORIES (RADIO, WINDOWS, WIPERS, ETC.) WHILE PROGRAMMING.

• IF THE VEHICLE IS EQUIPPED WITH AN ONSTAR SYSTEM, MAKE SURE THE SYSTEM TEMPORARILY DISABLED. (See Page 1)

• DO NOT ATTEMPT PROGRAMMING WHILE THE VEHICLE IS CONNECTED TO A BATTERY CHARGER.

4. The programmer will perform some self tests and then the following will appear on the screen

TURN IGNTN ON, PRESS ANY KEY

Now turn the ignition key to the RUN position (BUT DO NOT START THE VEHICLE).

Press any key and the following screen will appear:

Y PROGRAMMING
N DTC READER

5. Press Y to enter Programming Functions and continue with step 6 UNLESS THE FOLLOWING MESSAGES APPEAR:

• “NOT FOR THIS VEHICLE” Call JET Customer Service

• “SOFTWARE NEEDS TO BE UPDATED” Call JET Customer Service

• RESTORE FACTORY PROGRAMMING This message will appear after you have previously updated your vehicle with the JET Programmer, answer Y to this option to return your vehicle to its stock programming answer N to continue.

Press N to enter Scan Tool Functions (see Page 7)

ENGINE TUNING

6. Press Y to install JET EZ Programming (The JET EZ Programming option is engineered to give you the best performance with the easiest installation. By selecting this option the JET Performance Programmer will download the most up to date JET Performance tuning software to increase horsepower and torque based on your fuel grade selection. In addition, automatic transmission equipped vehicles will get improved shifting patterns and increased shift firmness. JET EZ Tuning is a great choice when you want more power without the need for custom tuning.)
Press N to enter **Custom Programming** Options. The Custom Programming option on the JET Performance Programmer allows the user to install JET Performance Engine tuning based on your fuel grade selection. In addition, it allows the user to select custom changes such as shift points, shift firmness, rev limits, and speed limiters based on tire ratings. If you have changed the tires or gears on your vehicle and need to correct the speedometer because of the changes, this is the program you will want to use.

7. Use **Arrow keys** to scroll through fuel grade options and press Y to select. Premium fuel is recommended for maximum performance.

**AUTOMATIC TRANSMISSION**

8. Press Y if you have an automatic transmission; if you had previously selected JET EZ Programming, programming will begin immediately see **step 21**, if you are doing Custom Programming continue with **step 9**.

**NOTE:** If you have an 8.1L, the next screen will ask: Allison Transmission Y/N?

*If you have an Allison Transmission equipped truck, no transmission, tire or gear modifications are available. Select Y and go to step 12. If you don’t have the Allison Transmission, select N and continue with transmission modifications.*

Press N if you have a manual transmission and please note the following; If you had previously selected JET EZ Programming, programming will begin see **step 21**, If you are doing Custom Programming continue with **step 9**.

**SHIFT POINTS**

*This allows you to change the Wide Open Throttle (WOT) shift points in your Automatic transmission for the 1-2, 2-3 and 3-4 shift points. You can select to increase or decrease your shift points based on the mile per hour you want raise or lower the shift points.**

**NOTE:** If you raise your shift points more than 1 or 2 MPH it may be necessary to raise the RPM Limiter also.

9. Press Y to modify shift points and continue with step 10, Press N to leave shift points stock and continue with **step 11**

10. Press Y to modify 1-2 shift, use **Arrow** keys to move mph up or down and press Y to select, do the same for 2-3, 3-4 shifts. Press N to leave stock.
SHIFT FIRMNESS

11. Press Y to increase shift firmness, Press N to leave stock.

RPM LIMITER

Allows you to change the Factory programmed RPM limiter in your vehicle by increasing the limit 100 RPM at a time up to the maximum change of 800 RPM. As noted in the shift point section it may be necessary to change this if you change the shift points.

12. Press Y to modify RPM limiter and continue with step 13, Press N to leave RPM limits stock and continue with step 14

13. Press Arrow keys to select RPM limit change and press Y

SPEED LIMITER

This allows you to modify the factory speed limit that is programmed into your computer. Most vehicles have speed limiters based on the tires that are installed on the vehicle from the factory. Each tire has a speed rating that is indicated by a letter designation. For your safety and the safety of others never exceed the speed rating on your tires or the posted legal speed limit at any time. In the case where a reduced speed limiter is required, JET has included the option to lower the speed limiter.

14. Press Y to Modify Speed Limiter and continue with step 15, Press N to leave stock and continue to step 16

15. Press Arrow Keys to modify speed limiter based on tire rating and press Y

MODIFIED TIRE SIZE

Use this selection to fix your speedometer and shift points if you have changed your tire size. You can select from 24 to 44 inch tire sizes in half inch increments.

NOTE: If your vehicle is equipped with traction control, exceeding 34 inch tire sizes may cause the traction control to not work correctly. In ALL vehicles: Some tire sizes, depending on what gear is in the vehicle, may cause shifting problems even with the correct setting on the programmer. This usually occurs with tires larger than 38 inches.

16. Press Y to correct for tire size changes and continue with step 17, Press N for no changes and continue with step 18
MODIFY CHOICES

What To Do If Your Vehicle Won’t Start After Programming

17. Press **Arrow** Keys to select correct tire size and press Y.

**MODIFIED GEAR RATIO**

*Use this selection if you have changed the gear ratio in the differential.*  
The selections include both factory and aftermarket gear ratios that may or may not be available for your vehicle.

18. Press Y to correct for gear ratio changes and continue with step 19, Press N for no changes and continue with step 20

19. Press **Arrow** Keys to select correct gear ratio and press Y

**MODIFY CHOICES**

20. Press Y to modify choices, Press N if choices are correct and programming will begin.

21. Programming has begun, **do not disturb the cable, key position or operate anything in the vehicle during the programming process.**

   **NOTE:** During programming, vehicles equipped with driver information centers will display various service messages - these are nothing to be concerned about and will go away when programming is complete.

22. When programming is complete, the Programmer will display Programming Complete, turn the ignition key off and unplug the cable from the Data link connector (DLC).

23. That’s it! Programming is now complete. Please store your JET Performance Programmer in a safe dry place in its original packaging. You will need the programmer in the future to return your vehicle to stock or modify your settings.

24. If you had to previously disable your On Star system, reinstall the fuses that you removed to the correct locations.

25. Start the vehicle and verify that the service engine light is NOT on. If your vehicle will not start, see below for details on what to do if your vehicle won’t start after programming.

26. **NOTE:** Your vehicle may run poorly for the first 10-15 minutes after programming, poor idle quality will be the most noticeable issue. This will go away in a short period of time and is nothing to be concerned about.

What To Do If Your Vehicle Won’t Start After Programming

In some vehicles with the Vehicle Anti-Theft System (VATS), the programming process will set an error in the VATS module which will prevent vehicle from starting. To clear this error disconnect the ground (-) cable from your battery for one half hour. Then re-connect the ground cable to the battery and start the vehicle.
The JET Performance Programmer also functions as a Data Trouble Code (DTC) reader for GM OBDII equipped vehicles. This allows the user to read and clear any stored data trouble codes in the system.

We have included a list of DTC's so you will know what code is stored in your vehicle. (This list may or may not include all available codes for all vehicles. Check a factory repair manual for your vehicle.)

Please NOTE: The DTC reader included in the JET Performance Programmer is not designed to be a complete scan tool or a diagnostic device. It is included as a convenience only. The interpretation of these codes and there effects are best left to an experienced automotive technician. The JET technical department WILL NOT help you interpret or diagnose any codes, please see your local dealer or technician.

Connecting the JET Programmer DTC code reader:
1. Locate the Data Link Connector (DLC) under the driver’s side of the dash panel.
2. Plug the Programmer cable into the DLC. Make sure the cable is plugged in completely to ensure a good connection.
3. The programmer will perform some self tests and then the following will appear on the screen.

   TURN IGNTN ON PRESS ANY KEY

Now turn the ignition key to the RUN position but do not start the vehicle and the following screen will appear:

Y PROGRAMMING

N DTC READER

4. Press N to continue to the DTC reader function of the JET Programmer and the following screen will appear:

GET DTCS Y/N

5. Press Y to continue and get DTC's or N to continue to the clear DTC's screen.

   If you selected Y and there are any DTC's stored in the system they will be displayed in numerical order, use the arrow keys to scroll through any stored codes. If no DTC's are found the message on the screen will read NO DTCS stored. You can press any key to continue to the CLEAR DTCS screen.
   Press N and the programmer will return to the starting screen.

6. If there are DTC's stored and you want to clear them continue to the CLEAR DTCS Y/N screen and select Y.
P1638 Generator F-Terminal Circuit
P1639 5 Volt Reference 2 Circuit
P1640 Driver-1-Input High Voltage
P1641 Malfunction Indicator Lamp (MIL) Control Circuit
P1642 Vehicle Speed Output Circuit
P1643 Engine Speed Output Circuit
P1644 Traction Control Delivered Torque Output Circuit
P1645 Evaporative Emission (EVAP) Vent Solenoid Control Circuit
P1646 Evaporative Emission (EVAP) Vent Solenoid Control Circuit
P1647 Driver 1 Line 7
P1650 Control Module Output B Circuit
P1651 Fan 1 Relay Control Circuit
P1652 Powertrain Induced Chassis Pitch Output Circuit
P1653 Oil Level Lamp Control Circuit
P1654 Cruise Control Inhibit Output Circuit
P1655 EVAP Purge Solenoid Control Circuit
P1656 Driver 2 Line 6
P1657 1-4 Upshift Solenoid Control Circuit
P1658 Starter Enable Relay Control Circuit
P1660 Cooling Fan Control Circuits
P1661 MIL Control Circuit
P1662 Cruise Lamp Control Circuit
P1663 Oil Life Lamp Control Circuit
P1664 1-4 Upshift Lamp Control Circuit
P1665 Driver 3 Line 5
P1666 Driver 3 Line 6
P1667 Reverse Inhibit Solenoid Control Circuit
P1669 ABS Unit Expected
P1670 Driver 4
P1671 Driverrrr 4 Line 1
P1672 Low Engine Oil Level Lamp Control Circuit
P1673 Engine Hot Lamp Control Circuit
P1674 Tachometer Control Circuit
P1675 EVAP Vent Solenoid Control Circuit
P1676 Driver 4 Line 6
P1677 Driver 4 Line 7
P1680 Driver 5
P1681 Driver 5 Line 1
P1682 Driver 5 Line 2
P1683 Driver 5 Line 3
P1684 Driver 5 Line 4
P1685 Driver 5 Line 5
P1686 Driver 5 Line 6
P1687 Driver 5 Line 7
P1689 Delivered Torque Circuit Fault
P1690 ECM Loop Overrun
P1691 Coolant Gage Circuit Low Voltage
P1692 Coolant Gage Circuit High Voltage
P1693 Tachometer Circuit Low Voltage
P1694 Tachometer Circuit High Voltage
P1695 Remote Keyless Entry Circuit Low
P1696 Remote Keyless Entry Voltage High
P1700 Transmission Control Module (TCM) Requested MIL Illumination
P1701 Trans. MIL Request Circuit
P1705 P/N Signal Output Circuit
P1740 Torque Reduction Signal Circuit
P1743 TP Signal from ECM
P1760 TCM Supply Voltage Interrupted
P1779 Engine Torque Delivered to TCM Signal
P1780 Park/Neutra Position (PNP) Switch Circuit
P1781 Engine Torque Signal Circuit
P1790 Transmission Control Module Checksum
P1791 Transmission Control Module Loop
P1792 Transmission Control Module Reprogrammable Memory
P1792 ECM to TCM Engine Coolant Signal
P1793 Transmission Control Module Stack Overrun
P1795 CAN Bus - Throttle Body Position
P1800 TCM Power Relay Control Circuit
P1801 Performance Selector Switch Failure
P1804 Ground Control Relay
P1810 TFP Valve Position Switch Circuit
P1811 Maximum Adapt and Long Shift
P1812 Transmission Over Temperature Condition
P1813 Torque Control
P1814 Torque Converter Overspeed
P1815 Transmission Range Switch - Start in Wrong Range
P1816 TFP Valve Position Sw. - Park/Neu. With Drive Ratio
P1817 TFP Valve Position Sw. - Reverse With Drive Ratio
P1818 TFP Valve Position Sw. - Drive Without Drive Ratio
P1819 Internal Mode Switch - No Start/Wrong Range
P1820 Internal Mode Switch Circuit A Low
P1822 Internal Mode Switch Circuit B High
P1823 Internal Mode Switch Circuit P Low
P1825 Internal Mode Switch - Invalid Range
P1826 Internall Mode Swch Circuit C - High
P1831 PC Solenoid Power Circuit - Low Voltage
P1832 A/T Solenoid Power Circuit - Low Voltage
P1833 A/T Solenoids Power Circuit - Low Voltage
P1835 Kick-Down Switch Circuit
P1836 Kick-Down Switch Failed Open
P1837 Kick-Down Switch Failed Short
P1842 1-2 Shift Solenoid Circuit Low Voltage
P1843 1-2 Shift Solenoid Circuit High Voltage
P1844 Torque Reduction Signal Circuit Desired by TCM
P1845 2-3 Shift Solenoid Circuit Low Voltage
P1847 2-3 Shift Solenoid Circuit High Voltage
P1850 Brake Band Apply Solenoid Circuit
P1851 Brake Band Apply Solenoid Performance
P1852 Brake Band Apply Solenoid Low Voltage
P1853 Brake Band Apply Solenoid High Voltage
P1860 TCC PWM Solenoid Circuit Electrical
P1864 Torque Converter Clutch Circuit
P1866 Transmission Fluid Life
P1870 Transmission Component Slipping
P1871 Undefined Gear Ratio
P1873 TCC Stator Temp. Switch Circuit Low
P1874 TCC Stator Temp. Switch Circuit High
P1875 4WD Low Switch Circuit Electrical
P1884 TCC Enable/Shift Light Circuit
P1886 Shift Timing Solenoid
P1887 TCC Release Switch Circuit
P1890 ECM Data Input Circuit
P1890 Throttle Position Signal Input
P1891 Throttle Position Sensor PWM Signal Low
P1892 Throttle Position Sensor PWM Signal High
P1893 Engine Torque Signal Low Voltage
P1894 Engine Torque Signal High Voltage
P1895 TCM to ECM Torque Reduction Circuit
Limited Warranty

JET Performance Products warrants Chips, Modules and Programmers 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.
The installation and use of the product does not void the new-vehicle warranty nor should it be cause for the vehicle to fail an emissions test. Notify the product manufacturer if either of these situations occur. If you are unable to adequately resolve either situation with the vehicle manufacturer, you may contact the Environmental Protection Agency (EPA) at 202-233-9040, if the vehicle manufacturer fails to honor emission-warranty claims, or the Federal Trade Commission (FTC) at 202-326-3128, if federal protection is denied.