



ATS Diesel Performance
5293 Ward Road
Arvada, CO. 80002
www.ATSDiesel.com

Dodge Ram 2003-2006 E-Power Programmer

Toll free 800.949.6002





DISCLAIMER OF LIABILITY

This is a performance product which increases horsepower above and beyond factory specifications. As a result, more horsepower creates more stress on the drivetrain components, which could result in drivetrain failure. This product is intended for off-road use only. Use at your own risk.

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.

ATS Diesel, its distributors, employees, and dealers (the "Seller") shall not be responsible for the product's proper use and service. The buyer hereby waives all liability claims.

The Buyer hereby acknowledges no reliance 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 any obligation 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 equipment purchased. Under no circumstances will the Seller be liable for any damages or expenses by reason of use or sale 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 contact the manufacturer.

The Buyer is solely responsible for all warranty issues from the manufacturer.

LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productivity, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer.

The Warranty is limited to one (1) year from the date of sale and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller.

Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product or any other contingent expenses.

Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment.

In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, 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 understands this agreement and accepts its terms and conditions.

Please read these instructions carefully before installing the Xcelerator tuning programs into your vehicle, failure to do so could result in damage to your vehicle's PCM.

User must ensure that the factory "stock" tune is in the vehicle's PCM before installing the Xcelerator tuning program. GM dealer re-flashes are the same as stock factory tune.

Serious engine damage will occur if the Xcelerator tuning program is installed over a non-factory/aftermarket performance tune. Do not try to install the Xcelerator tuning program if there is low battery voltage.



To begin operating your Xcelerator first notice the parts which are included with the programmer. Included in the package is the programmer itself and a cord with two different connections on their end. One end needs to be connected to the programmer and the other end to the OBD II port. The OBD II port is located underneath the dash on the left hand side.

Plug both ends in to their respective receivers. Watch the programmer light up to display its first screen. From this point on follow the instruction given to you on the screen of the programmer. The rest of the instructions set covers the main points of operating this programmer, but does not provide screen to screen guidance.

TURN OFF ALL ACCESSORIES IN THE TRUCK PRIOR TO CONNECTING THE DOWNLOADER (HEADLIGHTS, A/C, HEATER, RADIO, ETC.) WE DO NOT WANT ANY OF THESE ITEMS TO ATTEMPT TO COMMUNICATE WITH YOUR PCM DURING DOWNLOAD PROCESS.

NOTE The downloader will start programming from 0% to 100%. **DO NOT DISTURB OR MOVE THE LOADER DURING ACTUAL PROGRAMMING.** Also **DO NOT** open or close the doors (leave the doors either open OR closed) or any other accessory in the truck since it may interfere with download process. Wait until loader display instructs you that download is complete.

Main Screen Options

The main screen gives the user three options to choose from:

Downloader: Select this option to download a power program

PTO: Select this option to run an external device and run your truck at higher RPM's than stock.

DTCs: Select this option to view and erase diagnostic trouble codes.

Downloader Options

When you chose the downloader option from the main menu the programmer will display the part # and VIN # screen followed by the disclaimer screen. To proceed past the disclaimer screen you need to press "Y" After proceeding you will come to the Download Option Screen.

- Stock: This option to return to your truck to stock after having a previous download.
- Tune 1: Towing program
- Tune 2: Mid level program
- Tune 3 (HOT): Extreme program



Checking DTC's

After you have selected the DTC option from the main menu you will view a screen that will either display all the trouble codes in your vehicle or tell you that you have no trouble codes. If the screen tells that you have trouble codes please read through the codes and make note of any reoccurring trouble codes. To erase the codes you must first exit the code viewing screen by pressing "N". The programmer will then prompt you to erase codes, press "Y" to erase the codes. Unplug the programmer when it prompts you to do so.

Using the PTO Option

Use the PTO controller to run accessory machinery such as wenches and generators. The PTO controller allows you to adjust the idle RPM's on your vehicle to better run such accessory machinery. Once you select the PTO option from the main menu and get to the PTO Controller screen start your vehicle and press "U" to begin. Then press the up and down arrow keys to increase or decrease the engine RPMS' by increments of 100mpg. When you are finished press "N", press "N" again to exit..

Be sure to recycle the key before performing any other functions on the vehicle.

The Xcelerator Power Programmer for the 2003-2005 5.9L Dodge Cummins Common Rail turbo diesel is a very simple instrument to operate. All operations take place inside the cab with the programmer hooked up to the OBD II port. Operating this programmer does not require any mechanical background. While operating this programmer we encourage you to simply follow the instructions provided on the screen of the Xcelerator. The instructions on the screen are easy o read and comprehensive.

Once you have downloaded a program into your vehicle remember to always keep the programmer in the vehicle. You may need to change the power program or check and erase Diagnostic Trouble Codes (DTC's). Before you Operate the Xcelerator Programmer on your vehicle, you must read all the disclaimer and liability information attached to these instructions.

Notice: This particular Xcelerator Programmer is made specifically to work on the 2003-2005 5.9L Dodge Cummins Common Rail turbo diesel, and may not be used on any other vehicle. When programming a vehicle with a grey key the immobilizer unit key will be erased from the vehicle. This will not affect vehicle performance.

IMPORTANT: Any downloaded power program must always be removed before taking the vehicle in for any kind of service, as it may interfere with other diagnostic tools.

Recovery Mode

When an interruption occurs during a download and the download is terminated you must recover the vehicle using the programmer to resume the downloading process.

Warning: Vehicle will not start if you do not properly recover it after the event of an interrupted download.

Steps to Recovery:

1. Unplug the ground terminals on both batteries for two minutes. Reconnect after two minutes has past.
2. Go inside the cab and plug the programmer back into the OBD II port.
3. Turn the ignition to the run position without starting the vehicle to power the programmer.
4. Press "Y" when the programmer prompts you to do so and then let the programmer go to work. The programmer will automatically recover the vehicle back to stock.
5. When the programmer is finished recovering your vehicle, unplug the programmer and recycle the key before performing any other functions with the programmer.



DTC Code Definitions

P0016 ENGINE SPEED SIGNAL MISMATCH
P0071 INLET AIR TEMP SENSOR RATIONALITY
P0072 INLET AIR TEMP SENSOR VOLTAGE TOO LOW
P0073 INLET AIR TEMP SENSOR VOLTAGE TOO HIGH
P0088 FUEL RAIL PRESSURE SIGNAL IS ABOVE MAX LIMIT
P0106 INLET AIR PRESSURE SENSOR RATIONALITY
P0107 INLET AIR PRESSURE SENSOR VOLTAGE TOO LOW
P108 INLET AIR PRESSURE SENSOR VOLTAGE TOO HIGH
P0111 INTAKE AIR TEMPERATURE (IAT) SENSOR RATIONALITY
P0112 INTAKE AIR TEMPERATURE (IAT) SENSOR VOLTAGE TOO LOW
P0113 INTAKE AIR TEMPERATURE (IAT) SENSOR VOLTAGE TOO HIGH
P0116 ENGINE COOLANT TEMPERATURE (ECT) SENSOR RATIONALITY
P0117 ENGINE COOLANT TEMPERATURE (ECT) SENSOR VOLTAGE TOO LOW
P0118 ENGINE COOLANT TEMPERATURE (ECT) SENSOR VOLTAGE TOO HIGH
P0128 THERMOSTAT RATIONALITY
P0148 HIGH PRESSURE COMMON RAIL (HPCR) CHECKSUM
P0169 WATER IN FUEL (WIF) LIGHT ON TOO LONG
P0192 FUEL PRESSURE SENSOR VOLTAGE TOO LOW
P0193 FUEL PRESSURE SENSOR VOLTAGE TOO HIGH
P0201 INJECTOR NO. 1 CONTROL CIRCUIT
P0202 INJECTOR NO. 2 CONTROL CIRCUIT
P0203 INJECTOR NO. 3 CONTROL CIRCUIT
P0204 INJECTOR NO. 4 CONTROL CIRCUIT
P0205 INJECTOR NO. 5 CONTROL CIRCUIT
P0206 INJECTOR NO. 6 CONTROL CIRCUIT
P0217 DECREASED ENGINE PERFORMANCE DUE TO ENGINE OVERHEAT CONDITION
P0219 CRANKSHAFT POSITION SENSOR OVER SPEED SIGNAL
P0234 TURBO BOOST LIMIT EXCEEDED
P0236 MAP SENSOR TOO HIGH TOO LONG
P0237 MAP SENSOR VOLTAGE TOO LOW
P0238 MAP SENSOR VOLTAGE TOO HIGH
P0251 CP3 PUMP REGULATOR CONTROL
P0300 MULTIPLE CYLINDER MISFIRE
P0301 CYLINDER NO. 1 MISFIRE
P0302 CYLINDER NO. 2 MISFIRE
P0303 CYLINDER NO. 3 MISFIRE
P0304 CYLINDER NO. 4 MISFIRE
P0305 CYLINDER NO. 5 MISFIRE
P0306 CYLINDER NO. 6 MISFIRE
P0335 CRANKSHAFT POSITION (CKP) LOST
P0336 CRANKSHAFT POSITION (CKP) SENSOR SIGNAL
P0337 CRANKSHAFT POSITION (CKP) SENSOR VOLTAGE TOO LOW
P0338 CRANKSHAFT POSITION (CKP) SENSOR TOO HIGH
P0340 CAMSHAFT POSITION (CMP) LOST



P0341 CAMSHAFT POSITION (CMP) SENSOR SIGNAL
P0381 WAIT TO START LAMP INOPERATIVE
P0461 FUEL LEVEL UNIT NO CHANGE OVER TIME
P0462 LOW VOLTAGE DETECTED AT THE FUEL LEVEL SENSOR
P0463 HIGH VOLTAGE DETECTED AT THE FUEL LEVEL SENSOR
P0477 LOW VOLTAGE ON THE ENGINE BRAKE DRIVER
P0478 HIGH VOLTAGE ON THE ENGINE BRAKE DRIVER
P0480 FAN CLUTCH
P0483 FAN SPEED
P0500 NO VEHICLE SPEED SENSOR SIGNAL
P0514 BAT TEMPERATURE SENSOR RATIONALITY
P0516 LOW VOLTAGE AT THE BAT TEMP SENSOR
P0517 HIGH VOLTAGE AT THE BAT TEMP SENSOR
P0521 OIL PRESSURE SWITCH RATIONALITY
P0524 OIL PRESSURE TO LOW
P0532 A/C SENDING UNIT VOLTS TOO LOW
P0533 A/C SENDING UNIT VOLTS TOO HIGH
P0541 LOW VOLTAGE ON THE NO. 1 INTAKE AIR HEATER RELAY
P0542 HIGH VOLTAGE ON THE NO. 1 INTAKE AIR HEATER RELAY
P0562 BATTERY VOLTAGE LOW
P0563 BATTERY VOLTAGE HIGH
P0572 LOW VOLTAGE DETECTED AT THE BRAKE SWITCH
P0573 HIGH VOLTAGE DETECTED AT THE BRAKE SWITCH
P0580 LOW VOLTAGE DETECTED AT THE CRUISE CONTROL SWITCH
P0581 HIGH VOLTAGE DETECTED AT THE CRUISE CONTROL SWITCH
P0602 CHECKSUM ERROR
P0604 ECM SOFTWARE ERROR
P0606 ECM HARDWARE ERROR
P0607 ECM INTERNAL FAILURE
P0622 GENERATOR FIELD NOT SWITCHING PROPERLY
P0628 LOW VOLTAGE DETECTED AT THE FUEL LIFT PUMP
P0629 HIGH VOLTAGE DETECTED AT TEH FUEL LIFT PUMP
P0630 VIN NOT ENTERED ERROR
P0633 SKIM SECRET KEY NOT ENTERED
P0642 LOW VOLTAGE AT THE NO. 2 SENSOR SUPPLY CIRCUIT
P0646 LOW VOLTAGE DETECTED AT THE A/C CLUTCH RELAY
P0647 HIGH VOLTAGE DETECTED AT THE A/C CLUTCH RELAY
P0652 LOW VOLTAGE AT THE NO. 1 SENSOR SUPPLY CIRCUIT
P0653 HIGH VOLTAGE AT THE NO. 1 SENSOR SUPPLY CIRCUIT
P0698 ACCELERATOR POSITION SENSOR (APP) SUPPLY VOLTAGE TOO LOW
P0699 ACCELERATOR POSITION SENSOR (APP) SUPPLY VOLTAGE TOO HIGH
P0700 TRANSMISSION MESSAGE
P0711 (2) TRANSMISSION TEMPERATURE SENSOR PERFORMANCE
P0712 (2) TRANSMISSION TEMPERATURE SENSOR LOW
P0713 (2) TRANSMISSION TEMPERATURE SENSOR HIGH
P0720 (2) OUTPUT SPEED SENSOR ERROR



- P0743 (2) TORQUE CONVERTER CLUTCH SOLENOID/TRANS RELAY CIRCUITS
- P0748 (2) PRESSURE SOL CONTROL/TRANS RELAY CIRCUITS
- P0751 (2) O/D SOL PERFORMANCE
- P0753 (2) TRANS 3-4 SHIFT SOL/TRANS RELAY CIRCUITS
- P0836 (2) 4WD MUX SWITCH STUCK
- P0837 (2) 4WD SWITCH PERFORMANCE
- P0838 (2) 4WD MODE SENSOR LOW
- P0839 (2) 4WD MODE SENSOR HIGH
- P1652 J1850 SHORT TO GROUND
- P1740 (2) TCC O/D SOL PERFORMANCE
- P1756 (2) GOV PRESS NOT EQUAL TO TARGET @ 35-40 PSI
- P1757 (2) GOV PRESS ABOVE 3 PSI IN GEAR WITH 0 MPH
- P1762 (2) GOV PRESS SEN OFFSET VOLTS TOO LOW OR HIGH
- P1763 (2) GOVERNOR PRESSURE SENSOR VOLTS TOO HIGH
- P1764 (2) GOVERNOR PRESSURE SENSOR VOLTS TO LOW
- P1765 (2) TRANS 12 VOLT SUPPLY RELAY CTRL CIRCUIT
- P2121 APP VOLTS DO NOT AGREE WITH IDLE VALIDATION SIGNAL
- P2122 LOW VOLTAGE AT THE APP SENSOR
- P2123 HIGH VOLTAGE AT THE APP SENSOR
- P2127 LOW VOLTAGE AT THE THROTTLE VALIDATION SWITCH
- P2128 HIGH VOLTAGE AT THE THROTTLE VALIDATION SWITCH
- P2146 BANK 1 (CYLINDERS 1-3) SHORTED HIGH OR LOW
- P2149 BANK 2 (CYLINDERS 4-6) SHORTED HIGH OR LOW
- P2266 WATER IN FUEL (WIF) SENSOR VOLTAGE TOO LOW
- P2269 WATER IN FUEL (WIF)
- P2502 CHARGING SYSTEM ERROR
- P2503 CHARGING SYSTEM LOW ERROR
- P2504 CHARGING SYSTEM HIGH ERROR
- P2509 POWERDOWN DATA LOST ERROR
- P2607 LOW VOLTAGE AT THE NO. 2 INTAKE AIR HEATER RELAY
- P2608 HIGH VOLTAGE AT THE NO. 2 INTAKE AIR HEATER RELAY
- P2638 (2) TORQUE MANAGEMENT FEEDBACK SIGNAL PERFORMANCE

- (1) Perform appropriate test under DIAGNOSTIC TESTS.
- (2) This DTC is related to automatic transmission diagnostics.