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|-------|---|-------|---|
| P0775 | Pressure Control Solenoid "B" | | |
| P0776 | Pressure Control Solenoid "B" Performance or Stuck Off | | |
| P0777 | Pressure Control Solenoid "B" Stuck On | | |
| P0778 | Pressure Control Solenoid "B" Electrical | | |
| P0779 | Pressure Control Solenoid "B" Intermittent | | |
| P0780 | Shift | | |
| P0781 | 1-2 Shift | | |
| P0782 | 2-3 Shift | | |
| P0783 | 3-4 Shift | | |
| P0784 | 4-5 Shift | | |
| P0785 | Shift/Timing Solenoid | | |
| P0786 | Shift/Timing Solenoid Range/Performance | | |
| P0787 | Shift/Timing Solenoid Low | | |
| P0788 | Shift/Timing Solenoid High | | |
| P0789 | Shift/Timing Solenoid Intermittent | | |
| P0790 | Normal/Performance Switch Circuit | | |
| P0791 | Intermediate Shaft Speed Sensor Circuit | | |
| P0792 | Intermediate Shaft Speed Sensor Circuit Range/Performance | | |
| P0793 | Intermediate Shaft Speed Sensor Circuit No Signal | | |
| P0794 | Intermediate Shaft Speed Sensor Circuit Intermittent | | |
| P0795 | Pressure Control Solenoid "C" | | |
| P0796 | Pressure Control Solenoid "C" Performance or Stuck off | | |
| P0797 | Pressure Control Solenoid "C" Stuck On | | |
| P0798 | Pressure Control Solenoid "C" Electrical | | |
| P0799 | Pressure Control Solenoid "C" Intermittent | | |
| P0801 | Reverse Inhibit Control Circuit | | |
| P0803 | 1-4 Upshift (Skip Shift) Solenoid Control Circuit | | |
| P0804 | 1-4 Upshift (Skip Shift) Lamp Control Circuit | | |
| P0805 | Clutch Position Sensor Circuit | | |
| P0806 | Clutch Position Sensor Circuit Range/Performance | | |
| P0807 | Clutch Position Sensor Circuit Low | | |
| P0808 | Clutch Position Sensor Circuit High | | |
| P0809 | Clutch Position Sensor Circuit Intermittent | | |
| P0810 | Clutch Position Control Error | | |
| P0811 | Excessive Clutch Slippage | | |
| P0812 | Reverse Input Circuit | | |
| P0813 | Reverse Output Circuit | P0834 | Clutch Pedal Switch "B" Circuit Low |
| P0814 | Transmission Range Display Circuit | P0835 | Clutch Pedal Switch "B" Circuit High |
| P0815 | Upshift Switch Circuit | P0836 | Four Wheel Drive (4WD) Switch Circuit |
| P0816 | Downshift Switch Circuit | P0837 | Four Wheel Drive (4WD) Switch Circuit Range/Performance |
| P0817 | Starter Disable Circuit | P0838 | Four Wheel Drive (4WD) Switch Circuit Low |
| P0818 | Driveline Disconnect Switch Input Circuit | P0839 | Four Wheel Drive (4WD) Switch Circuit High |
| P0820 | Gear Lever X-Y Position Sensor Circuit | P0840 | Transmission Fluid Pressure Sensor/Switch "A" Circuit |
| P0821 | Gear Lever X Position Circuit | P0841 | Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance |
| P0822 | Gear Lever Y Position Circuit | P0842 | Transmission Fluid Pressure Sensor/Switch "A" Circuit Low |
| P0823 | Gear Lever X Position Circuit Intermittent | P0843 | Transmission Fluid Pressure Sensor/Switch "A" Circuit High |
| P0824 | Gear Lever Y Position Circuit Intermittent | P0844 | Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent |
| P0825 | Gear Lever Push-Pull Switch (Shift Anticipate) | P0845 | Transmission Fluid Pressure Sensor/Switch "B" Circuit |
| P0830 | Clutch Pedal Switch "A" Circuit | P0846 | Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance |
| P0831 | Clutch Pedal Switch "A" Circuit Low | P0847 | Transmission Fluid Pressure Sensor/Switch "B" Circuit Low |
| P0832 | Clutch Pedal Switch "A" Circuit High | P0848 | Transmission Fluid Pressure Sensor/Switch "B" Circuit High |
| P0833 | Clutch Pedal Switch "B" Circuit | P0849 | Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent |

Pacific Performance Engineering
 303 N Placentia Ave.
 Fullerton, CA 92831
 www.pacificp.com

Technical Support: (714) 985-4825
 Fax: (714) 985-9907
 Email: sales@pacificp.com

DURAMAX **HOT** XCELERATOR LLY Install Guide



**Duramax 6.6L
 2004-2005 LLY**

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.

Pacific Performance Engineering Inc., 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, productiveness, 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.

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| P0703 | Torque Converter/Brake Switch B Circuit | |
| P0704 | Clutch Switch In put Circuit Malfunction | |
| P0705 | Transmission Range Sensor Circuit Malfunction (PRNDL Input) | |
| P0706 | Transmission Range Sensor Circuit Range/Performance | |
| P0707 | Transmission Range Sensor Circuit Low Input | |
| P0708 | Transmission Range Sensor Circuit High Input | |
| P0709 | Transmission Range Sensor Circuit intermittent | |
| P0710 | Transmission Fluid Temperature Sensor Circuit | |
| P0711 | Transmission Fluid Temperature Sensor Circuit Range/Performance | |
| P0712 | Transmission Fluid Temperature Sensor Circuit Low Input | |
| P0713 | Transmission Fluid Temperature Sensor Circuit High Input | |
| P0714 | Transmission Fluid Temperature Sensor Circuit Intermittent | |
| P0715 | Input/Turbine Speed Sensor Circuit | |
| P0716 | Input/Turbine Speed Sensor Circuit Range/Performance | |
| P0717 | Input/Turbine Speed Sensor Circuit No Signal | |
| P0718 | Input/Turbine Speed Sensor Circuit Intermittent | |
| P0719 | Torque Converter/Brake Switch B Circuit Low | |
| P0720 | Output Speed Sensor Circuit | |
| P0721 | Output Speed Sensor Circuit Range/Performance | |
| P0722 | Output Speed Sensor Circuit No Signal | |
| P0723 | Output Speed Sensor Circuit Intermittent | |
| P0724 | Torque Converter/Brake Switch B Circuit High | |
| P0725 | Engine Speed Input Circuit | |
| P0726 | Engine Speed Input Circuit Range/Performance | |
| P0727 | Engine Speed Input Circuit No Signal | |
| P0728 | Engine Speed Input Circuit Intermittent | |
| P0730 | Incorrect Gear Ratio | |
| P0731 | Gear 1 Incorrect Ratio | |
| P0732 | Gear 2 Incorrect Ratio | |
| P0733 | Gear 3 Incorrect Ratio | |
| P0734 | Gear 4 Incorrect Ratio | |
| P0735 | Gear 5 Incorrect Ratio | |
| P0736 | Reverse Incorrect Ratio | |
| P0737 | TCM Engine Speed Output Circuit | |
| P0739 | TCM Engine Speed Output Circuit Low | |
| P0739 | TCM Engine Speed Output Circuit High | |
| P0740 | Torque Converter Clutch Circuit | |
| P0741 | Torque Converter Clutch Circuit Performance or Stuck Off | |
| P0742 | Torque Converter Clutch Circuit Stuck On | |
| P0743 | Torque Converter Clutch Circuit Electrical | |
| P0744 | Torque Converter Clutch Circuit Intermittent | |
| P0745 | Pressure Control Solenoid "A" | |
| P0746 | Pressure Control Solenoid "A" Performance or Stuck Off | |
| P0747 | Pressure Control Solenoid "A" Stuck On | |
| P0748 | Pressure Control Solenoid "A" Electrical | |
| P0749 | Pressure Control Solenoid "A" Intermittent | |
| P0750 | Shift Solenoid "A" | |
| P0751 | Shift Solenoid "A" Performance or Stuck Off | |
| P0752 | Shift Solenoid "A" Stuck On | |
| P0753 | Shift Solenoid "A" Electrical | |
| P0754 | Shift Solenoid "A" Intermittent | |
| P0765 | Shift Solenoid "B" | |
| P0756 | Shift Solenoid "B" Performance or Stuck Off | |
| P0757 | Shift Solenoid "B" Stuck On | |
| P0758 | Shift Solenoid "B" Electrical | |
| P0759 | Shift Solenoid "B" Intermittent | |
| P0760 | Shift Solenoid "C" | |
| P0761 | Shift Solenoid "C" Performance or Stuck Off | |
| P0762 | Shift Solenoid "C" Stuck On | |
| P0763 | Shift Solenoid "C" Electrical | |
| P0764 | Shift Solenoid "C" Intermittent | |
| P0765 | Shift Solenoid "C" | |
| P0766 | Shift Solenoid "D" Performance or Stuck Off | |
| P0767 | Shift Solenoid "D" Stuck On | |
| P0768 | Shift Solenoid "D" Electrical | |
| P0769 | Shift Solenoid "D" Intermittent | |
| P0770 | Shift Solenoid "E" | |
| P0771 | Shift Solenoid "E" Performance or Stuck Off | |
| P0772 | Shift Solenoid "E" Stuck On | |
| P0773 | Shift Solenoid "E" Electrical | |
| P0774 | Shift Solenoid "E" Intermittent | |

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| P0548 | Exhaust Gas Temperature Sensor Circuit Low (Bank 2) |
| P0549 | Exhaust Gas Temperature Sensor Circuit High (Bank 2) |
| P0550 | Power Steering Pressure Sensor Circuit |
| P0551 | Power Steering Pressure Sensor Circuit Range/Performance |
| P0552 | Power Steering Pressure Sensor Circuit Low Input |
| P0553 | Power Steering Pressure Sensor Circuit High Input |
| P0554 | Power Steering Pressure Sensor Circuit Intermittent |
| P0560 | System Voltage |
| P0561 | System Voltage Unstable |
| P0562 | System Voltage Low |
| P0563 | System Voltage High |
| P0570 | Cruise Control Accel Signal |
| P0571 | Cruise Control/Brake Switch A Circuit |
| P0572 | Cruise Control/Brake Switch A Circuit Low |
| P0573 | Cruise Control/Brake Switch A Circuit High |
| P0574 | Cruise Control System - Vehicle Speed Too High |
| P0575 | Cruise Control Input Circuit |
| P0576 | Cruise Control Input Circuit Low |
| P0577 | Cruise Control input Circuit High |
| P0578 | through P0580 Reserved for Cruise Control Codes |
| P0600 | Serial Communication Link |
| P0601 | Internal Control Module Memory Check Sum Error |
| P0602 | Control Module Programming Error |
| P0603 | Internal Control Module Keep Alive Memory (KAM) Error |
| P0604 | Internal Control Module Random Access Memory (RAM) Error |
| P0605 | Internal Control Module Read Only Memory (ROM) Error |
| P0606 | ECM/PCM Processor |
| P0607 | Control Module Performance |
| P0608 | Control Module VSS Output "A" |
| P0609 | Control Module VSS Output "B" |
| P0610 | Control Module Vehicle Options Error |
| P0615 | Starter Relay Circuit |
| P0616 | Starter Relay Circuit Low |
| P0617 | Starter Relay Circuit High |
| P0618 | Alternative Fuel Control Module KAM Error |
| P0619 | Alternative Fuel Control Module RAM/ROM Error |
| P0620 | Generator Control Circuit |
| P0621 | Generator Lamp "L" Terminal Control Circuit |
| P0622 | Generator Field "F" Terminal Control Circuit |
| P0623 | Generator Lamp Control Circuit |
| P0624 | Fuel Cap Lamp Control Circuit |
| P0630 | VIN Not Programmed or Mismatch - ECM/PCM |
| P0631 | VIN Not Programmed or Mismatch - TCM |
| P0635 | Power Steering Control Circuit |
| P0636 | Power Steering Control Circuit Low |
| P0637 | Power Steering Control Circuit High |
| P0638 | Throttle Actuator Control Range/Performance (Bank 1) |
| P0639 | Throttle Actuator Control Range/Performance (Bank 2) |
| P0640 | Intake Air Heater Control Circuit |
| P0645 | A/C Clutch Relay Control Circuit |
| P0646 | A/C Clutch Relay Control Circuit Low |
| P0647 | A/C Clutch Relay Control Circuit High |
| P0648 | Immobilizer Lamp Control Circuit ("Immobilizer" pending SAE J1930 approval) |

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| P0649 | Speed Control Lamp Control Circuit |
| P0650 | Malfunction Indicator Lamp (ML) Control Circuit |
| P0654 | Engine RPM Output Circuit |
| P0655 | Engine Hot Lamp Output Control Circuit |
| P0656 | Fuel Level Output Circuit |
| P0660 | Intake Manifold Tuning Valve Control Circuit (Bank 1) |
| P0661 | Intake Manifold Tuning Valve Control Circuit Low (Bank 1) |
| P0662 | Intake Manifold Tuning Valve Control Circuit High (Bank 1) |
| P0663 | Intake Manifold Tuning Valve Control Circuit (Bank 2) |
| P0664 | Intake Manifold Tuning Valve Control Circuit Low (Bank 2) |
| P0665 | Intake Manifold Tuning Valve Control Circuit High (Bank 2) |
| P0700 | Transmission Control System (MIL Request) |
| P0701 | Transmission Control System Range/Performance |
| P0702 | Transmission Control System Electrical |

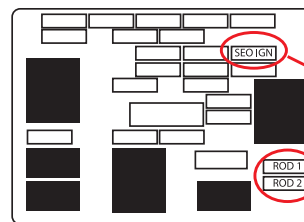
VERY IMPORTANT

Do not perform any computer procedures with the Xcelerator while vehicle is running (except for OBD II diagnostics). The vehicle must be parked and the engine must be off before installing the Xcelerator programming.

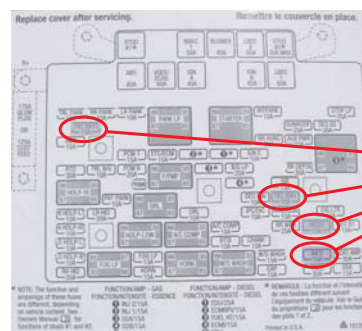
TURN OFF ALL ACCESSORIES IN THE TRUCK PRIOR TO CONNECTING THE DOWN-LOADER (HEADLIGHTS, A/C, HEATER, RADIO, ETC.) WE DO NOT WANT ANY OF THESE ITEMS TO ATTEMPT TO COMMUNICATE WITH YOUR PCM DURING DOWNLOAD PROCESS.

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.

1. Apply the parking brake and make sure all of the vehicle's electrical devices are turned off.



Picture A 2001-2002



Picture B 2003-2004

REMOVE

2. On 2001-2002 vehicles remove the fuses from the fuse box located on the driver's side of the cab, as shown in picture A.

On 03-04 models remove the fuses under the hood, as shown in picture B.

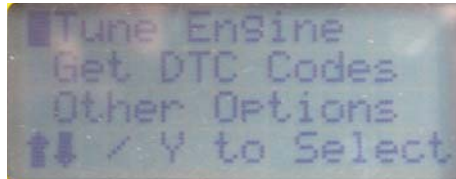
Note to GM C4500 & C5500 models:

There is no need to pull any fuses on any of the C4500 and C5500 Series in both 2 and 4 wheel drive.

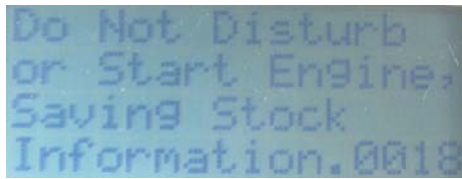
OBD2 Port



3. Locate the OBD II port on the driver's side (below the dash) and connect the Xcelerator.



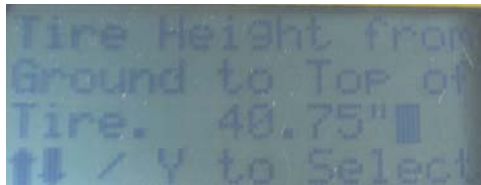
4. If tune engine is selected, it will save the stock file from the vehicle.



5. Turn the key to the on position but do not start the vehicle. After a few seconds the Xcelerator screen should display, "Do Not Disturb or Start Engine. Saving Stock Program."

6. Choose "Increase the Power" and answer the following screens.

7. If you are choosing to remove the speed governor you must accept all responsibilities set forth in the disclaimer.

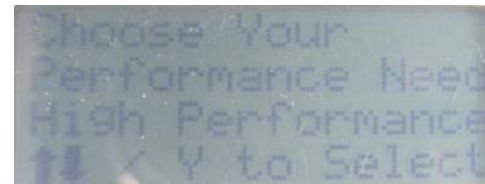


8. If your Duramax has tires that are large or smaller than stock, then you can make corrections by picking the proper tire size. In order to pick the proper size measure the vertical height of the tire and use the dimensions and use the nearest size available in the Xcelerator's setting.

(Note: If a tire states a certain size, it is still recommended that the tire is measured). To choose tire height, use the up and down arrow keys to the desired size.

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| P0444 | Evaporative Emission Control System Purge Control Valve Circuit Open | | |
| P0445 | Evaporative Emission Control System Purge Control Valve Circuit Shorted | | |
| P0446 | Evaporative Emission Control System Vent Control Circuit | | |
| P0447 | Evaporative Emission Control System Vent Control Circuit Open | | |
| P0448 | Evaporative Emission Control System Vent Control Circuit Shorted | | |
| P0449 | Evaporative Emission Control System Vent Valve/Solenoid Circuit | | |
| P0450 | Evaporative Emission Control System Pressure Sensor | | |
| P0451 | Evaporative Emission Control System Pressure Sensor Range/Performance | | |
| P0452 | Evaporative Emission Control System Pressure Sensor Low Input | | |
| P0453 | Evaporative Emission Control System Pressure Sensor High Input | | |
| P0454 | Evaporative Emission Control System Pressure Sensor Intermittent | | |
| P0455 | Evaporative Emission Control System Leak Detected (gross leak) | | |
| P0456 | Evaporative Emission Control System Leak Detected (very small leak) | | |
| P0457 | Evaporative Emission Control System Leak Detected (fuel cap loose/off) | | |
| P0460 | Fuel Level Sensor Circuit | | |
| P0461 | Fuel Level Sensor Circuit Range/Performance | | |
| P0462 | Fuel Level Sensor Circuit Low Input | P0487 | Exhaust Gas Recirculation Throttle Position Control Circuit |
| P0463 | Fuel Level Sensor Circuit High Input | P0488 | Exhaust Gas Recirculation Throttle Position Control Range/Performance |
| P0464 | Fuel Level Sensor Circuit Intermittent | P0491 | Secondary Air Injection System (Bank 1) |
| P0465 | EVAP Purge Flow Sensor Circuit | P0492 | Secondary Air Injection System (Bank 2) |
| P0466 | EVAP Purge Flow Sensor Circuit Range/Performance | P0500 | Vehicle Speed Sensor |
| P0467 | EVAP Purge Flow Sensor Circuit Low Input | P0501 | Vehicle Speed Sensor Range/Performance |
| P0468 | EVAP Purge Flow Sensor Circuit High Input | P0502 | Vehicle Speed Sensor Circuit Low Input |
| P0469 | EVAP Purge Flow Sensor Circuit Intermittent | P0503 | Vehicle Speed Sensor Intermittent/Erratic/High |
| P0470 | Exhaust Pressure Sensor | P0505 | Idle Control System |
| P0471 | Exhaust Pressure Sensor Range/Performance | P0506 | Idle Control System RPM Lower Than Expected |
| P0472 | Exhaust Pressure Sensor Low | P0507 | Idle Control System RPM Higher Than Expected |
| P0473 | Exhaust Pressure Sensor High | P0508 | Idle Control System Circuit Low |
| P0474 | Exhaust Pressure Sensor Intermittent | P0509 | Idle Control System Circuit High |
| P0475 | Exhaust Pressure Control Valve | P0510 | Closed Throttle Position Switch |
| P0476 | Exhaust Pressure Control Valve Range/Performance | P0512 | Starter Request Circuit |
| P0477 | Exhaust Pressure Control Valve Low | P0513 | Incorrect Immobilizer Key ("Immobilizer pending SAE J1930 approval) |
| P0478 | Exhaust Pressure Control Valve High | P0515 | Battery Temperature Sensor Circuit |
| P0479 | Exhaust Pressure Control Valve Intermittent | P0516 | Battery Temperature Sensor Circuit Low |
| P0480 | Cooling Fan 1 Control Circuit | P0517 | Battery Temperature Sensor Circuit High |
| P0481 | Cooling Fan 2 Control Circuit | P0520 | Engine Oil Pressure Sensor/Switch Circuit |
| P0482 | Cooling Fan 3 Control Circuit | P0521 | Engine Oil Pressure Sensor/Switch Range/Performance |
| P0483 | Cooling Fan Rationality Check | P0522 | Engine Oil Pressure Sensor/Switch Low Voltage |
| P0484 | Cooling Fan Circuit Over Current | P0523 | Engine Oil Pressure Sensor/Switch High Voltage |
| P0485 | Cooling Fan Power/Ground Circuit | P0524 | Engine Oil Pressure Too Low |
| P0486 | Exhaust Gas Recirculation Sensor "B" Circuit | P0530 | A/C Refrigerant Pressure Sensor Circuit |
| | | P0531 | A/C Refrigerant Pressure Sensor Circuit Range/Performance |
| | | P0532 | A/C Refrigerant Pressure Sensor Circuit Low Input |
| | | P0533 | A/C Refrigerant Pressure Sensor Circuit High Input |
| | | P0534 | Air Conditioner Refrigerant Charge Loss |
| | | P0540 | Intake Air Heater Circuit |
| | | P0541 | Intake Air Heater Circuit Low |
| | | P0542 | Intake Air Heater Circuit High |
| | | P0544 | Exhaust Gas Temperature Sensor Circuit (Bank 1) |
| | | P0545 | Exhaust Gas Temperature Sensor Circuit Low (Bank 1) |
| | | P0546 | Exhaust Gas Temperature Sensor Circuit High (Bank 1) |
| | | P0547 | Exhaust Gas Temperature Sensor Circuit (Bank 2) |

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| P0376 | Timing Reference High Resolution Signal "B" Too Many Pulses | |
| P0377 | Timing Reference High Resolution Signal "B" Too Few Pulses | |
| P0378 | Timing Reference High Resolution Signal "B" Intermittent/Erratic Pulses | |
| P0379 | Timing Reference High Resolution Signal "B" No Pulses | |
| P0380 | Glow Plug/Heater Circuit "A" | |
| P0381 | Glow Plug/Heater Indicator Circuit | |
| P0382 | Glow Plug/Heater Circuit "B" | |
| P0385 | Crankshaft Position Sensor "B" Circuit | |
| P0386 | Crankshaft Position Sensor "B" Circuit Range/Performance | |
| P0387 | Crankshaft Position Sensor "B" Circuit Low Input | |
| P0388 | Crankshaft Position Sensor "B" Circuit High Input | |
| P0389 | Crankshaft Position Sensor "B" Circuit Intermittent | |
| P0390 | Camshaft Position Sensor "B" Circuit | |
| P0391 | Camshaft Position Sensor "B" circuit Range/Performance (Bank 2) | |
| P0392 | Camshaft Position Sensor "B" Circuit Low Input (Bank 2) | |
| P0393 | Camshaft Position Sensor "B" Circuit High Input (Bank 2) | |
| P0394 | Camshaft Position Sensor "B" Circuit Intermittent (Bank 2) | |
| P0400 | Exhaust Gas Recirculation Flow | |
| P0401 | Exhaust Gas Recirculation Flow Insufficient Detected | |
| P0402 | Exhaust Gas Recirculation Flow Excessive Detected | |
| P0403 | Exhaust Gas Recirculation Control Circuit | |
| P0404 | Exhaust Gas Recirculation Control Circuit Range/Performance | |
| P0405 | Exhaust Gas Recirculation Sensor "A" Circuit Low | |
| P0406 | Exhaust Gas Recirculation Sensor "A" Circuit High | |
| P0407 | Exhaust Gas Recirculation Sensor "B" Circuit Low | |
| P0408 | Exhaust Gas Recirculation Sensor "B" Circuit High | |
| P0409 | Exhaust Gas Recirculation Sensor "A" Circuit | |
| P0410 | Secondary Air Injection System | |
| P0411 | Secondary Air Injection System Incorrect Flow Detected | |
| P0412 | Secondary Air Injection System Switching Valve "A" Circuit | |
| P0413 | Secondary Air Injection System Switching Valve "A" Circuit Open | |
| P0414 | Secondary Air Injection System Switching Valve "A" Circuit Shorted | |
| P0415 | Secondary Air Injection System Switching Valve "B" Circuit | |
| P0416 | Secondary Air Injection System Switching Valve "B" Circuit Open | |
| P0417 | Secondary Air Injection System Switching Valve "B" Circuit Shorted | |
| P0416 | Secondary Air Injection System Relay "A" Circuit | |
| P0419 | Secondary Air Injection System Relay "B" Circuit | |
| P0420 | Catalyst System Efficiency Below Threshold (Bank 1) | |
| P0421 | Warm Up Catalyst Efficiency Below Threshold (Bank 1) | |
| P0422 | Main Catalyst Efficiency Below Threshold (Bank 1) | |
| P0423 | Heated Catalyst Efficiency Below Threshold (Bank 1) | |
| P0424 | Heated Catalyst Temperature Below Threshold (Bank 1) | |
| P0425 | Catalyst Temperature Sensor (Bank 1) | |
| P0426 | Catalyst Temperature Sensor Range/Performance (Bank 1) | P0435 Catalyst Temperature Sensor (Bank 2) |
| P0427 | Catalyst Temperature Sensor Low Input (Bank 1) | P0436 Catalyst Temperature Sensor Range/Performance (Bank 2) |
| P0428 | Catalyst Temperature Sensor High Input (Bank 1) | P0437 Catalyst Temperature Sensor Low Input (Bank 2) |
| P0429 | Catalyst Heater Control Circuit (Bank 1) | P0438 Catalyst Temperature Sensor High Input (Bank 2) |
| P0430 | Catalyst System Efficiency Below Threshold (Bank 2) | P0439 Catalyst Heater Control Circuit (Bank 2) |
| P0431 | Warm Up Catalyst Efficiency Below Threshold (Bank 2) | P0440 Evaporative Emission Control System |
| P0432 | Main Catalyst Efficiency Below Threshold (Bank 2) | P0441 Evaporative Emission Control System Incorrect Purge Flow |
| P0433 | Heated Catalyst Efficiency Below Threshold (Bank 2) | P0442 Evaporative Emission Control System Leak Detected (small leak) |
| P0434 | Heated Catalyst Temperature Below Threshold (Bank 2) | P0443 Evaporative Emission Control System Purge Control Valve Circuit |



9. There are four levels of tuning available with Xcelerator, scroll up and down to select the tuning level desired.

- Tune 1=Low Performance (60HP)
 - Tune 2=High Performance (90HP)
 - Tune 3=Race Performance (160HP)
 - Tune 4(**HOT**)=Race Extreme (240HP & 390 Ft-Lbs Torque)
- *Horsepower numbers are represented at the crank.*

10. The downloader will now install the selected horsepower program selected. Do not disturb the vehicle or the Xcelerator during this operation.

11. When the program is installed, wait 15 seconds before you shut the key off or remove the tuner.

12. You must now remove the tuner from the vehicle.

13. Replace the fuses that you removed earlier.

14. When going back to the stock program, you must go through steps 1-11.

Other features

Data Trouble Codes

If you choose "Get DTC Codes" it will display the vehicle's trouble codes, and with the Xcelerator you can clear these codes by choosing the on-screen prompt. If a situation arises where you need to take your truck to the dealer, it is recommended that you take a couple of minutes and load the stock program back into the vehicle's computer.

User's Guide

Xcelerator is the leader in high-performance hand-held programmable computer technology. Developed for 2001 through early 2004 GM 6.6L Duramax Diesel trucks, Xcelerator has set the new standard in performance amongst hand-held units. Due to the performance Xcelerator is able to provide, it is advisable to follow the guidelines set forth below.

With all engine tuning levels, it is recommended for vehicles using the hand-held Xcelerator programmer to be equipped with a Pyrometer and Boost Gauge. Exhaust Gas Temperatures (EGT)/Pyrometer temperatures should remain at 1400° Fahrenheit or lower. Extended periods of time above this operating range may result in engine damage.

Level 1 and 2 are perfect for Towing, while Level 3 and 4 are best suited for Racing applications. Note: Level 3 and 4 may result in faster wear to the vehicle's drivetrain and may require upgrades to the Allison™ or 6-speed manual transmission.

Xcelerator features a one-year limited warranty.

Thank you for choosing Xcelerator. We know that you have a choice when it comes to performance products for your diesel, and Pacific Performance Engineering values your commitment to excellence!

| | | | |
|-------|---|-------|---|
| P0302 | Cylinder 2 Misfire Detected | | |
| P0303 | Cylinder 3 Misfire Detected | | |
| P0304 | Cylinder 4 Misfire Detected | | |
| P0305 | Cylinder 5 Misfire Detected | | |
| P0306 | Cylinder 6 Misfire Detected | | |
| P0307 | Cylinder 7 Misfire Detected | | |
| P0308 | Cylinder 8 Misfire Detected | | |
| P0309 | Cylinder 9 Misfire Detected | | |
| P0310 | Cylinder 10 Misfire Detected | | |
| P0311 | Cylinder 11 Misfire Detected | | |
| P0312 | Cylinder 12 Misfire Detected | | |
| P0313 | Misfire Detected with Low Fuel | | |
| P0314 | Single Cylinder Misfire (Cylinder not Specified) | | |
| P0320 | Ignition/Distributor Engine Speed Input Circuit | | |
| P0321 | Ignition/Distributor Engine Speed Input Circuit Range/Performance | | |
| P0322 | Ignition/Distributor Engine Speed Input Circuit No Signal | | |
| P0323 | Ignition/Distributor Engine Speed Input Circuit Intermittent | | |
| P0324 | Knock Control System Error | | |
| P0325 | Knock Sensor 1 Circuit (Bank 1 or Single Sensor) | | |
| P0326 | Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor) | | |
| P0327 | Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor) | | |
| P0328 | Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor) | | |
| P0329 | Knock Sensor 1 Circuit Input Intermittent (Bank 1 or Single Sensor) | | |
| P0330 | Knock Sensor 2 Circuit (Bank 2) | | |
| P0331 | Knock Sensor 2 Circuit Range/Performance (Bank 2) | | |
| P0332 | Knock Sensor 2 Circuit Low Input (Bank 2) | | |
| P0333 | Knock Sensor 2 Circuit High Input (Bank 2) | | |
| P0334 | Knock Sensor 2 Circuit Input Intermittent (Bank 2) | | |
| P0335 | Crankshaft Position Sensor A Circuit | | |
| P0336 | Crankshaft Position Sensor A Circuit Range/Performance | | |
| P0337 | Crankshaft Position Sensor A Circuit Low Input | | |
| P0338 | Crankshaft Position Sensor A Circuit High Input | | |
| P0339 | Crankshaft Position Sensor A Circuit Intermittent | | |
| P0340 | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) | | |
| P0341 | Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sens | | |
| P0342 | Camshaft Position Sensor "A" Circuit Low Input (Bank 1 or Single Sensor) | | |
| P0343 | Camshaft Position Sensor "A" Circuit High Input (Bank 1 or Single Sensor) | | |
| P0344 | Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or Single Sensor) | | |
| P0345 | Camshaft Position Sensor "A" Circuit (Bank 2) | | |
| P0348 | Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2) | | |
| P0347 | Camshaft Position Sensor "A" Circuit Low Input (Bank 2) | | |
| P0348 | Camshaft Position Sensor "A" Circuit High Input (Bank 2) | | |
| P0349 | Camshaft Position Sensor "A" Circuit Intermittent (Bank 2) | | |
| P0350 | Ignition Coil Primary/Secondary Circuit | | |
| P0351 | Ignition Coil "A" Primary/Secondary Circuit | P0359 | Ignition Coil "I" Primary/Secondary Circuit |
| P0352 | Ignition Coil "B" Primary/Secondary Circuit | P0360 | Ignition Coil "J" Primary/Secondary Circuit |
| P0353 | Ignition Coil "C" Primary/Secondary Circuit | P0361 | Ignition Coil "K" Primary/Secondary Circuit |
| P0354 | Ignition Coil "D" Primary/Secondary Circuit | P0362 | Ignition Coil "L" Primary/Secondary Circuit |
| P0355 | Ignition Coil "F" Primary/Secondary Circuit | P0365 | Camshaft Position Sensor "B" Circuit (Bank 1) |
| P0356 | Ignition Coil "F" Primary/Secondary Circuit | P0373 | Timing Reference High Resolution Signal "A" Intermittent/Erratic Pulses |
| P0357 | Ignition Coil "G" Primary/Secondary Circuit | P0374 | Timing Reference High Resolution Signal "A" No Pulse |
| P0358 | Ignition Coil "H" Primary/Secondary Circuit | P0375 | Timing Reference High Resolution Signal "B" |

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| P0229 | Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent | | |
| P0230 | Fuel Pump Primary Circuit | | |
| P0231 | Fuel Pump Secondary Circuit Low | | |
| P0232 | Fuel Pump Secondary Circuit High | | |
| P0233 | Fuel Pump Secondary Circuit Intermittent | | |
| P0234 | Turbo/Super Charger Overboost Condition | | |
| P0235 | Turbo/Super Charger Boost Sensor "A" Circuit | | |
| P0236 | Turbo/Super Charger Boost Sensor "A" Circuit Range/Performance | | |
| P0237 | Turbo/Super Charger Boost Sensor "A" Circuit Low | | |
| P0238 | Turbo/Super Charger Boost Sensor "A" Circuit High | | |
| P0239 | Turbo/Super Charger Boost Sensor "B" Circuit | | |
| P0240 | Turbo/Super Charger Boost Sensor "B" Circuit Range/Performance | | |
| P0241 | Turbo/Super Charger Boost Sensor "B" Circuit Low | | |
| P0242 | Turbo/Super Charger Boost Sensor "B" Circuit High | | |
| P0243 | Turbo/Super Charger Wastegate Solenoid "A" | | |
| P0244 | Turbo/Super Charger Wastegate Solenoid "A" Range/Performance | | |
| P0245 | Turbo/Super Charger Wastegate Solenoid "A" Low | | |
| P0246 | Turbo/Super Charger Wastegate Solenoid "A" High | | |
| P0247 | Turbo/Super Charger Wastegate Solenoid "B" | | |
| P0248 | Turbo/Super Charger Wastegate Solenoid "B" Range/Performance | | |
| P0249 | Turbo/Super Charger Wastegate Solenoid "B" Low | | |
| P0250 | Turbo/Super Charger Wastegate Solenoid "B" High | | |
| P0251 | Injection Pump Fuel Metering Control "A" (Cam/Rotor/Injector) | | |
| P0252 | Injection Pump Fuel Metering Control "A" Range/Performance (Cam/Rotor/Injector) | | |
| P0253 | Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector) | | |
| P0254 | Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector) | | |
| P0255 | Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector) | | |
| P0256 | Injection Pump Fuel Metering Control "B" (Cam/Rotor/Injector) | | |
| P0257 | Injection Pump Fuel Metering Control "B" Range/Performance (Cam/Rotor/Injector) | | |
| P0258 | Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector) | | |
| P0259 | Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector) | | |
| P0260 | Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector) | | |
| P0261 | Cylinder 1 Injector Circuit Low | | |
| P0262 | Cylinder 1 Injector Circuit High | P0281 | Cylinder 7 Contribution/Balance |
| P0263 | Cylinder 1 Contribution/Balance | P0282 | Cylinder 8 Injector Circuit Low |
| P0264 | Cylinder 2 Injector Circuit Low | P0283 | Cylinder 8 Injector Circuit High |
| P0265 | Cylinder 2 Injector Circuit High | P0284 | Cylinder 8 Contribution/Balance |
| P0266 | Cylinder 2 Contribution/Balance | P0285 | Cylinder 9 Injector Circuit Low |
| P0267 | Cylinder 3 Injector Circuit Low | P0286 | Cylinder 9 Injector Circuit High |
| P0268 | Cylinder 3 Injector Circuit High | P0287 | Cylinder 9 Contribution/Balance |
| P0269 | Cylinder 4 Contribution/Balance | P0288 | Cylinder 10 Injector Circuit Low |
| P0270 | Cylinder 4 Injector Circuit Low | P0289 | Cylinder 10 Injector Circuit High |
| P0271 | Cylinder 4 Injector Circuit High | P0290 | Cylinder 10 Contribution/Balance |
| P0272 | Cylinder 4 Contribution/Balance | P0291 | Cylinder 11 Injector Circuit Low |
| P0273 | Cylinder 5 Injector Circuit Low | P0292 | Cylinder 11 Injector Circuit High |
| P0274 | Cylinder 5 Injector Circuit High | P0293 | Cylinder 11 Contribution/Balance |
| P0275 | Cylinder 5 Contribution/Balance | P0294 | Cylinder 12 Injector Circuit Low |
| P0276 | Cylinder 6 Injector Circuit Low | P0295 | Cylinder 12 Injector Circuit High |
| P0277 | Cylinder 6 Injector Circuit High | P0296 | Cylinder 12 Contribution/Balance |
| P0278 | Cylinder 6 Contribution/Balance | P0298 | Engine Oil Over Temperature |
| P0279 | Cylinder 7 Injector Circuit Low | P0300 | Random/Multiple Cylinder Misfire Detected |
| P0280 | Cylinder 7 Injector Circuit High | P0301 | Cylinder 1 Misfire Detected |

DTC CODES

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| P0010 | "A" Camshaft Position Actuator Circuit (Bank 1) |
| P0011 | "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1) |
| P0012 | "A" Camshaft Position - Timing Over-Retarded (Bank 1) |
| P0013 | "B" Camshaft Position - Actuator Circuit (Bank 1) |
| P0014 | "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1) |
| P0015 | "B" Camshaft Position -Timing Over-Retarded (Bank 1) |
| P0020 | "A" Camshaft Position Actuator Circuit (Bank 2) |
| P0021 | "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2) |
| P0022 | "A" Camshaft Position - Timing Over-Retarded (Bank 2) |
| P0023 | "B" Camshaft Position - Actuator Circuit (Bank 2) |
| P0024 | "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2) |
| P0025 | "B" Camshaft Position - Timing Over-Retarded (Bank 2) |
| P0030 | HO2S Heater Control Circuit (Bank 1 Sensor 1) |
| P0031 | HO2S Heater Control Circuit Low (Bank 1 Sensor 1) |
| P0032 | HO2S Heater Control Circuit High (Bank 1 Sensor 1) |
| P0033 | Turbo Charger Bypass Valve Control Circuit |
| P0034 | Turbo Charger Bypass Valve Control Circuit Low |
| P0035 | Turbo Charger Bypass Valve Control Circuit High |
| P0036 | HO2S Heater Control Circuit (Bank 1 Sensor 2) |
| P0037 | HO2S Heater Control Circuit Low (Bank 1 Sensor 2) |
| P0038 | HO2S Heater Control Circuit High (Bank 1 Sensor 2) |
| P0042 | HO2S Heater Control Circuit (Bank 1 Sensor 3) |
| P0043 | HO2S Heater Control Circuit Low (Bank 1 Sensor 3) |
| P0044 | HO2S Heater Control Circuit High (Bank 1 Sensor 3) |
| P0050 | HO2S Heater Control Circuit (Bank 2 Sensor 1) |
| P0051 | HO2S Heater Control Circuit Low (Bank 2 Sensor 1) |
| P0052 | HO2S Heater Control Circuit High (Bank 2 Sensor 1) |
| P0056 | HO2S Heater Control Circuit (Bank 2 Sensor 2) |
| P0057 | HO2S Heater Control Circuit Low (Bank 2 Sensor 2) |
| P0058 | HO2S Heater Control Circuit High (Bank 2 Sensor 2) |
| P0062 | HO2S Heater Control Circuit (Bank 2 Sensor 3) |
| P0063 | HO2S Heater Control Circuit Low (Bank 2 Sensor 3) |
| P0064 | HO2S Heater Control Circuit High (Bank 2 Sensor 3) |
| P0065 | Air Assisted Injector Control Range/Performance |
| P0066 | Air Assisted Injector Control Circuit or Circuit Low |
| P0067 | Air Assisted Injector Control Circuit High |
| P0070 | Ambient Air Temperature Sensor Circuit |
| P0071 | Ambient Air Temperature Sensor Range/Performance |
| P0072 | Ambient Air Temperature Sensor Circuit Low Input |
| P0073 | Ambient Air Temperature Sensor Circuit High Input |
| P0074 | Ambient Air Temperature Sensor Circuit Intermittent |
| P0075 | Intake Valve Control Solenoid Circuit (Bank 1) |
| P0076 | Intake Valve Control Solenoid Circuit Low (Bank 1) |
| P0077 | Intake Valve Control Solenoid Circuit High (Bank 1) |
| P0078 | Exhaust Valve Control Solenoid Circuit (Bank 1) |
| P0079 | Exhaust Valve Control Solenoid Circuit Low (Bank 1) |
| P0080 | Exhaust Valve Control Solenoid Circuit High (Bank 1) |
| P0081 | Intake valve Control Solenoid Circuit (Bank 2) |
| P0082 | Intake Valve Control Solenoid Circuit Low (Bank 2) |
| P0083 | Intake Valve Control Solenoid Circuit High (Bank 2) |
| P0084 | Exhaust Valve Control Solenoid Circuit (Bank 2) |

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| P0085 | Exhaust Valve Control Solenoid Circuit Low (Bank 2) | | |
| P0086 | Exhaust Valve Control Solenoid Circuit High (Bank 2) | | |
| P0100 | Mass or Volume Air Flow Circuit | | |
| P0101 | Mass or Volume Air Flow Circuit Range/Performance Problem | | |
| P0102 | Mass or Volume Air Flow Circuit Low Input | | |
| P0103 | Mass or Volume Air Flow Circuit High Input | | |
| P0104 | Mass or Volume Air Flow Circuit Intermittent | | |
| P0105 | Manifold Absolute Pressure/Barometric Pressure Circuit | | |
| P0106 | Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance Prob | | |
| P0107 | Manifold Absolute Pressure/Barometric Pressure Circuit Low Input | | |
| P0108 | Manifold Absolute Pressure/Barometric Pressure Circuit High Input | | |
| P0109 | Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent | | |
| P0110 | Intake Air Temperature Circuit | | |
| P0111 | Intake Air Temperature Circuit Range/Performance Problem | | |
| P0112 | Intake Air Temperature Circuit Low Input | | |
| P0113 | Intake Air Temperature Circuit High Input | | |
| P0114 | Intake Air Temperature Circuit Intermittent | | |
| P0115 | Engine Coolant Temperature Circuit | | |
| P0116 | Engine Coolant Temperature Circuit Range/Performance Problem | | |
| P0117 | Engine Coolant Temperature Circuit Low Input | | |
| P0118 | Engine Coolant Temperature Circuit High Input | | |
| P0119 | Engine Coolant Temperature Circuit Intermittent | | |
| P0120 | Throttle/Pedal Position Sensor/Switch A Circuit | | |
| P0121 | Throttle/Pedal Position Sensor/Switch A Circuit Range/Performance Problem | | |
| P0122 | Throttle/Pedal Position Sensor/Switch A Circuit Low Input | | |
| P0123 | Throttle/Pedal Position Sensor/Switch A Circuit High Input | | |
| P0124 | Throttle/Pedal Position Sensor/Switch A Circuit Intermittent | | |
| P0125 | Insufficient Coolant Temperature for Closed Loop Fuel Control | | |
| P0126 | Insufficient Coolant Temperature for Stable Operation | | |
| P0127 | Intake Air Temperature Too High | | |
| P0128 | Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temp) | | |
| P0130 | O2 Sensor Circuit (Bank 1 Sensor 1) | | |
| P0131 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1) | | |
| P0132 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 1) | | |
| P0133 | O2 Sensor Circuit Slow Response (Bank 1 Sensor 1) | | |
| P0134 | O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1) | | |
| P0135 | O2 Sensor Heater Circuit (Bank 1 Sensor 1) | | |
| P0136 | O2 Sensor Circuit Malfunction (Bank 1 Sensor 2) | P0151 | O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1) |
| P0137 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2) | P0152 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 1) |
| P0138 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 2) | P0153 | O2 Sensor Circuit Slow Response (Bank 2 Sensor 1) |
| P0139 | O2 Sensor Circuit Slow Response (Bank 1 Sensor 2) | P0154 | O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1) |
| P0140 | O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2) | P0155 | O2 Sensor Heater Circuit (Bank 2 Sensor 1) |
| P0141 | O2 Sensor Heater Circuit (Bank 1 Sensor 2) | P0156 | O2 Sensor Circuit Malfunction (Bank 2 Sensor 2) |
| P0142 | O2 Sensor Circuit Malfunction (Bank 1 Sensor 3) | P0157 | O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2) |
| P0143 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 3) | P0158 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 2) |
| P0144 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 3) | P0159 | O2 Sensor Circuit Slow Response (Bank 2 Sensor 2) |
| P0145 | O2 Sensor Circuit Slow Response (Bank 1 Sensor 3) | P0160 | O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2) |
| P0146 | O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 3) | P0161 | O2 Sensor Heater Circuit (Bank 2 Sensor 2) |
| P0147 | O2 Sensor Heater Circuit (Bank 1 Sensor 3) | P0162 | O2 Sensor Circuit Malfunction (Bank 2 Sensor 3) |
| P0148 | Fuel Delivery Error | P0163 | O2 Sensor Circuit Low Voltage (Bank 2 Sensor 3) |
| P0149 | Fuel Timing Error | P0164 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 3) |
| P0150 | O2 Sensor Circuit (Bank 2 Sensor 1) | P0165 | O2 Sensor Circuit Slow Response (Bank 2 Sensor 3) |

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|-------|--|-------|---|
| P0166 | O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3) | | |
| P0167 | O2 Sensor Heater Circuit (Bank 2 Sensor 3) | | |
| P0168 | Fuel Temperature Too High | | |
| P0169 | Incorrect Fuel Composition | | |
| P0170 | Fuel Trim (Bank 1) | | |
| P0171 | System too Lean (Bank 1) | | |
| P0172 | System too Rich (Bank 1) | | |
| P0173 | Fuel Trim Malfunction (Bank 2) | | |
| P0174 | System too Lean (Bank 2) | | |
| P0175 | System too Rich (Bank 2) | | |
| P0176 | Fuel Composition Sensor Circuit | | |
| P0177 | Fuel Composition Sensor Circuit Range/Performance | | |
| P0178 | Fuel Composition Sensor Circuit Low Input | | |
| P0179 | Fuel Composition Sensor Circuit High Input | | |
| P0180 | Fuel Temperature Sensor A Circuit | | |
| P0181 | Fuel Temperature Sensor A Circuit Range/Performance | | |
| P0182 | Fuel Temperature Sensor A Circuit Low Input | | |
| P0183 | Fuel Temperature Sensor A Circuit High Input | | |
| P0184 | Fuel Temperature Sensor A Circuit Intermittent | | |
| P0185 | Fuel Temperature Sensor B Circuit | | |
| P0186 | Fuel Temperature Sensor B Circuit Range/Performance | | |
| P0187 | Fuel Temperature Sensor B Circuit Low Input | | |
| P0188 | Fuel Temperature Sensor B Circuit High Input | | |
| P0189 | Fuel Temperature Sensor B Circuit Intermittent | | |
| P0190 | Fuel Rail Pressure Sensor Circuit | | |
| P0191 | Fuel Rail Pressure Sensor Circuit Range/Performance | | |
| P0192 | Fuel Rail Pressure Sensor Circuit Low Input | | |
| P0193 | Fuel Rail Pressure Sensor Circuit High Input | | |
| P0194 | Fuel Rail Pressure Sensor Circuit Intermittent | | |
| P0195 | Engine Oil Temperature Sensor | | |
| P0196 | Engine Oil Temperature Sensor Range/Performance | | |
| P0197 | Engine Oil Temperature Sensor Low | | |
| P0198 | Engine Oil Temperature Sensor High | | |
| P0199 | Engine Oil Temperature Sensor Intermittent | | |
| P0200 | Injector Circuit | | |
| P0201 | Injector Circuit - Cylinder 1 | | |
| P0202 | Injector Circuit - Cylinder 2 | | |
| P0203 | Injector Circuit - Cylinder 3 | | |
| P0204 | Injector Circuit - Cylinder 4 | | |
| P0205 | Injector Circuit - Cylinder 5 | P0218 | Transmission Fluid Over Temperature Condition |
| P0206 | Injector Circuit - Cylinder 6 | P0219 | Engine Over Speed Condition |
| P0207 | Injector Circuit - Cylinder 7 | P0220 | Throttle/Pedal Position Sensor/Switch "B" Circuit |
| P0208 | Injector Circuit - Cylinder 8 | P0221 | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance Problem |
| P0209 | Injector Circuit - Cylinder 9 | P0222 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low Input |
| P0210 | Injector Circuit - Cylinder 10 | P0223 | Throttle/Pedal Position Sensor/Switch "B" Circuit High Input |
| P0211 | Injector Circuit - Cylinder 11 | P0224 | Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent |
| P0212 | Injector Circuit - Cylinder 12 | P0225 | Throttle/Pedal Position Sensor/Switch "C" Circuit |
| P0213 | Cold Start Injector 1 | P0226 | Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance Problem |
| P0214 | Cold Start Injector 2 | P0227 | Throttle/Pedal Position Sensor/Switch "C" Circuit Low Input |
| P0215 | Engine Shutoff Solenoid | P0228 | Throttle/Pedal Position Sensor/Switch "C" Circuit High Input |
| P0216 | Injector/Injection Timing Control Circuit | | |
| P0217 | Engine Coolant Over Temperature Condition | | |