



*Performance*  
**PROGRAMMER**

Ford 7.3L Diesel Programmer



*Reprogram* **4** *Power*

JET Performance Products  
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## **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.**
- **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.**

- **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 IGNITION ON, PRESS ANY KEY**

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

*Note: During the programming process you will be required to cycle the key on/off several times.*

Press any key and the following screen will appear:

**Y PROGRAMMING  
N SCAN TOOL**

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 6)

## ENGINE TUNING

### MODIFY ENGINE TUNING Y/N?

6. Press **Y** to **Modify Engine Tuning** and select **Stage 1, Stage 2, Stage 3, Stage 4** or **Stage 5** tuning. Press **N** to leave Engine Tuning stock and continue to **step 8**.

*(See below for a detailed explanation of each tuning selection. With any Diesel engine upgrade that is designed to increase the power output of your engine JET recommends the use of an EGT gauge to insure you do not exceed recommended EGT temps. )*

**Stage One Tuning** can be used to tow any weight up to your vehicles towing capacity, this program will give you around a 30hp gain and can be used for all around use.

**Stage Two Tuning** is also for all around use and can be used to tow any weight up to your vehicles towing capacity, this program will give you about a 50hp gain.

**Stage Three Tuning** is a 65hp gain program that can be used to tow weights up to 12,000 lbs., never under any circumstances exceed the manufactures recommended towing capacity for your vehicle.

**Stage Four Tuning** is an all around use and light towing program that can be used to tow weights up to **6000 lbs.** Exceeding this 6000 lbs may cause serious damage to your truck, **do not exceed** this recommended towing capacity. This program will give you gains in the 80hp range.

**Stage 5 Tuning** is a **No Towing** program that will provide gains of 100hp, this program is never to be used on any vehicle that is hauling or towing anything of significant weight!

*(Warning: Using the Stage 5 program while towing will cause damage to your truck. JET Performance Products, Inc. will not be liable for any damage caused to your truck if you do not follow this warning!!)*

7. Use **Arrow Keys** to scroll though the Engine tuning options and Press **Y** to select.

### AUTOMATIC TRANSMISSION Y/N?

8. Press **Y** if you have an Automatic Transmission and proceed to **step 9**. Press **N** if you have a manual transmission and proceed to **step 12**.

### **MODIFY SHIFT POINTS Y/N?**

*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 to raise or lower your shift points.*

***Note:** Raising your shift points too high will allow the engine to hit the factory RPM limiter before the transmission can shift, use this option carefully and do small changes at a time. If you do get to the RPM limiter simply lower the mph change that you made and reprogram.*

9. Press **Y** to modify shift points and continue to **step 10**. Press **N** to leave shift points stock and continue with **step 11**.
10. Press **Y** to modify the 1-2 shift and use the **Arrow** keys to change mph up or down and press **Y** to select, do the same for the 2-3 and 3-4 shifts. Press **N** to leave stock..

### **MODIFY SHIFT FIRMNESS Y/N?**

*Answering Yes to this selection will reduce the slippage between gears and increase the shift firmness from gear to gear. Answering No will leave the shift firmness stock.*

11. Press **Y** to increase shift firmness, Press **N** to leave Stock and proceed to **step 12**.

### **MODIFY SPEED LIMITER Y/N?**

*This allows you to modify the factory speed limiter that is programmed into your computer. Most vehicles have speed limiters that are 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 that is located on the sidewall of the tire. 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.*

12. Press **Y** to Modify Speed Limiter and continue with **step 13**, Press **N** to leave stock and continue to **step 14**.
13. Press The **Arrow** keys to modify the speed limiter based on your tires ratings and Press **Y**.

## MODIFY CHOICES

14. Press Y to modify choices, Press N if choices are correct and programming will begin.
15. Programming has begun, **do not disturb the cable, key position or operate anything in the vehicle during the programming process unless instructed to do so.**

***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.***

16. 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).
17. 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.
18. 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.

## **What To Do If Your Vehicle Won't Start After Programming**

In some vehicles with the Passive Anti Theft System (PATS), the programming process will set an error during the programming process that will prevent the vehicle from starting. Normally if PATS is set the theft light on the dash will be blinking rapidly. If your vehicle won't start after programming do the following:

1. Remove the keys from the ignition, all the way out!
2. Put the ignition key in the ignition switch.
3. Turn the key to the run position, but DO NOT start the vehicle.
4. The Theft light on the dash should be blinking rapidly, about three blinks per second.
5. After about 30-45 seconds the Theft light will start to blink slowly and/or go out.
6. After this happens, turn the key off, take the key out of ignition. DON'T TRY TO START THE VEHICLE YET.
7. Wait 15-20 seconds the insert the key into the ignition.
8. Turn the key to the run position, but DO NOT start the vehicle.
9. The Theft light should now be blinking about 1 blink per second, this indicates that the PATS system has returned to normal mode.
10. If the Theft is blinking normally, about 1 blink per second, you can now start the vehicle. If you still have a rapidly blinking Theft light repeat the procedure.

# JET SCAN TOOL INSTRUCTIONS

The JET Performance Programmer also functions as a Scan Tool for GM OBDII equipped vehicles. This allows the user to read and clear any stored data trouble codes in the system and monitor 15 different outputs from the vehicle.

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 Scan Tool included in the JET Performance Programmer 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 Scan Tool:

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 SCAN TOOL**

4. Press N to continue to the Scan Tool section of the JET Programmer and the following screen will appear:

**Y DTC READER  
N MONITORING**

5. Press Y to continue and get DTC's or N to continue to the real time monitoring.

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**.

If you selected **N** you now will be in the real time monitoring mode

7. You will now need to start the vehicle to get the readings. After you have started the vehicle you can access and view the information by using the UP and DOWN arrow keys to get to the next parameter. You can exit the monitoring anytime by pressing the N key. After you are finished with your monitoring session simply turn the vehicle off and unplug the programmer.

P0010 A Camshaft Pos Actuator Circuit Bank 1  
 P0011 A Camshaft Pos Timing - Over Advanced Bank 1  
 P0012 A Camshaft Pos Timing - Over Retarded Bank 1  
 P0013 B Camshaft Pos Actuator Circuit Bank 1  
 P0014 B Camshaft Pos Timing - Over Advanced Bank 1  
 P0015 B Camshaft Pos Timining - Oveer Retarded Bank 1  
 P0020 A Camshaft Pos Actuator Circuit Bank 2  
 P0021 A Camshaft Pos Timing - Over Advanced Bank 2  
 P0022 A Camshaft Pos Timing - Over Retarded Bank 2  
 P0023 B Camshaft Pos Actuator Circuit Bank 2  
 P0024 B Camshaft Pos Timing - Over Advanced Bank 2  
 P0025 B Camshaft Pos Timing - Over Retarded Bank 2  
 P0030 HO2S Heater Control Circuit Bank 1 Sensor 1  
 P0031 HO2S Heater Circuit Low Voltage Bank 1 Sensor 1  
 P0032 HO2S Heater Circuit High Voltage Bank 1 Sensor 1  
 P0033 Turbo Charger Bypass Valve Ctrl Circuit  
 P0034 Turbo Charger Bypass Valve Ctrl Circuit Lo  
 P0035 Turbo Charger Bypass Valve Ctrl Circuit Hi  
 P0036 HO2S Heater Control Circuit Bank 1 Sensor 2  
 P0037 HO2S Heater Circuit Low Voltage Bank 1 Sensor 2  
 P0038 HO2S Heater Circuit High Voltage Bank 1 Sensor 2  
 P0042 HO2S Heater Ctrl Circuit Bank 1 Sensor 3  
 P0043 HO2S Heater Ctrl Circuit Lo Bank 1 Sensor 3  
 P0044 HO2S Heater Ctrl Circuit Hi Bank 1, Sensor 3  
 P0050 HO2S Heater Circuit Bank 2 Sensor 1  
 P0051 HO2S Heater Circuit Low Voltage Bank 2 Sensor 1  
 P0052 HO2S Heater Circuit High Voltage Bank 2 Sensor 1  
 P0056 HO2S Heater Circuit Bank 2 Sensor 2  
 P0057 HO2S Heater Circuit Low Voltage Bank 2 Sensor 2  
 P0058 HO2S Heater Circuit High Voltage Bank 2 Sensor 2  
 P0062 HO2S Heater Ctrl Circuit Bank 2, Sensor 3  
 P0063 HO2S Heater Ctrl Circuit Lo Bank 2, Sensor 3  
 P0064 HO2S Heater Ctrl Circuit Hi Bank 2, Sensor 3  
 P0065 Air Assisted Injector Ctrl Range/Perf  
 P0066 Air Assisted Injector Ctrl Circuit/Circuit Lo  
 P0067 Air Assisted Injector Ctrl Circuit Hi  
 P0070 Ambient Air Temp Sensor Circuit  
 P0071 Ambient Air Temp Sensor Range/Perf  
 P0072 Ambient Air Temp Sensor Circuit Lo Input  
 P0073 Ambient Air Temp Sensor Circuit Hi Input  
 P0074 Ambient Air Temp Sensor Circuit Intermittent  
 P0075 Intake Valve Ctrl Circuit Bank 1  
 P0076 Intake Valve Ctrl Circuit Lo Bank 1  
 P0077 Intake Valve Ctrl Circuit Hi Bank 1  
 P0078 Exhaust Valve Ctrl Circuit Bank 1  
 P0079 Exhaust Valve Ctrl Circuit Lo Bank 1  
 P0080 Exhaust Valve Ctrl Circuit Hi Bank 1  
 P0081 Intake Valve Ctrl Circuit Bank 2  
 P0082 Intake Valve Ctrl Circuit Lo Bank 2  
 P0083 Intake Valve Ctrl Circuit Hi Bank 2  
 P0084 Exhaust Valve Ctrl Circuit Bank 2  
 P0085 Exhaust Valve Ctrl Circuit Lo Bank 2  
 P0086 Exhaust Valve Ctrl Circuit Hi Bank 2  
 P0087 Fuel Rail/Sys Pres - Too Lo  
 P0088 Fuel Rail/Sys Pres - Too Hi  
 P0089 Fuel Pres Regulator Perf  
 P0090 Fuel Pres Regulator Ctrl Circuit  
 P0091 Fuel Pres Regulator Ctrl Circuit Lo  
 P0092 Fuel Pres Regulator Ctrl Circuit Hi  
 P0093 Fuel Sys Leak Detected - Large Leak  
 P0094 Fuel Sys Leak Detected - Small Leak  
 P0100 MAF Sensor Ckt. Insufficient Activity  
 P0101 Mass Air Flow (MAF) Sensor Performance  
 P0102 Mass Air Flow (MAF) Sensor Circuit Low Frequency  
 P0103 Mass Air Flow (MAF) Sensor Circuit High Frequency  
 P0104 Mass Air Flow Circuit Intermittent  
 P0105 MAP Sensor Circuit Insufficient Activity  
 P0106 Manifold Absolute Pressure (MAP) System Performance  
 P0107 Manifold Absolute Pressure (MAP) Sensor Circuit Low Voltage  
 P0108 Manifold Absolute Pressure (MAP) Sensor Circuit High Voltage  
 P0109 Manifold Absolute Pressure Circuit Intermittent  
 P0110 Intake Air Temperature (IAT) Sensor Circuit  
 P0111 Intake Air Temperature (IAT) Sensor Performance  
 P0112 Intake Air Temperature (IAT) Sensor Circuit Low Voltage  
 P0113 Intake Air Temperature (IAT) Sensor Circuit High Voltage  
 P0114 Intake Air Temperature Circuit Intermittent  
 P0115 Engine Coolant Temperature (ECT) Sensor Circuit  
 P0116 Engine Coolant Temperature (ECT) Sensor Performance  
 P0117 Engine Coolant Temperature (ECT) Sensor Circuit Low Voltage  
 P0118 Engine Coolant Temperature (ECT) Sensor Circuit High Voltage  
 P0119 Engine Coolant Temperature Circuit Intermittent  
 P0120 TP System Performance  
 P0121 TP Sensor Circuit Insufficient Activity  
 P0122 Throttle Position (TP) Sensor Circuit Low Voltage  
 P0123 Throttle Position (TP) Sensor Circuit High Voltage  
 P0124 Throttle Position Sensor 1 Circuit Intermittent  
 P0125 Engine Coolant Temperature (ECT) Insufficient for Closed Loop Fuel Control  
 P0126 Insufficient ECT for Stable Operation  
 P0127 Intake Air Temmmmmpp Too Hi  
 P0128 Coolant Thermostat  
 P0130 HO2S Circuit Closed Loop (CL) Performance Bank 1 Sensor 1  
 P0131 HO2S Circuit Low Voltage Bank 1 Sensor 1  
 P0132 HO2S Circuit High Voltage Bank 1 Sensor 1  
 P0133 HO2S Slow Response Bank 1 Sensor 1  
 P0134 HO2S Circuit Insufficient Activity Bank 1 Sensor 1  
 P0135 HO2S Heater Performance Bank 1 Sensor 1  
 P0136 HO2S Circuit Bank 1 Sensor 2  
 P0137 HO2S Circuit Low Voltage Bank 1 Sensor 2  
 P0138 HO2S Circuit High Voltage Bank 1 Sensor 2  
 P0139 HO2S Slow Response Bank 1 Sensor 2  
 P0140 HO2S Circuit Insufficient Activity Bank 1 Sensor 2  
 P0141 HO2S Heater Performance Bank 1 Sensor 2  
 P0142 HO2S Circuit Bank 1 Sensor 3  
 P0143 HO2S Circuit Low Voltage Bank 1 Sensor 3  
 P0144 HO2S Circuit High Voltage Bank 1 Sensor 3  
 P0145 HO2S Circuit Bank 1 Sensor 2 Slow Response  
 P0146 HO2S Circuit Insufficient Activity Bank 1 Sensor 3  
 P0147 HO2S Heater Performance Bank 1 Sensor 3  
 P0148 Fuel Delivery Error  
 P0149 Fuel Timing Error



P0150 Oxy Sensor Circuit Bank 2, Sensor 1  
P0151 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 1  
P0152 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 1  
P0153 Oxy Sensor Circuit Slow Response Bank 2, Sensor 1  
P0154 Oxy Sensor Circuit No Activity Detected Bank 2, Sensor 1  
P0155 Heated Oxy Sensor Heater Circuit Bank 2, Sensor 1111  
P0156 Oxy Sensor Circuit Bank 2,, Sensor  
P0157 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 2  
P0158 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 2  
P0159 Oxy Sensor Circuit Slow Response Bank 2, Sensor 2  
P0160 Oxy Sensor Circuit No Activity Detected Bank 2, Sensor 2  
P0161 Heated Oxy Sensor Heater Circuit Bank 2, Sensor 2  
P0162 Oxy Sensor Circuit Bank 2, Sensor 3  
P0163 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 3  
P0164 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 3  
P0165 Oxy Sensor Circuit Slow Response Bank 2, Sensor 3  
P0166 Oxy Sensor Circuit No Activity Detected Bank 2, Sensor 3  
P0167 Heated Oxy Sensor Heater Circuit Bank 2, Sensor 3  
P0168 Eng Fuel Temp Hi  
P0169 Incorrect Fuel Composition  
P0170 Fuel Trim Error Bank 1  
P0171 Fuel Trim System Lean Bank 1  
P0172 Fuel Trim System Rich Bank 1  
P0173 Fuel Trim Bank 2  
P0174 Fuel Trim System Lean Bank 2  
P0175 Fuel Trim System Rich Bank 2  
P0176 Fuel Composition Sensor Circuit  
P0177 Fuel Composition Sensor Circuit Performance  
P0178 Fuel Composition Sensor Circuit Low Voltage  
P0179 Fuel Composition Sensor Circuit High Voltage  
P0180 Fuel Temperature Sensor 1 Circuit  
P0181 Fuel Temp. Sensor 1 Circuit Performance  
P0182 Fuel Temperature Sensor Circuit Low Voltage  
P0183 Fuel Temperature Sensor Circuit High Voltage  
P0184 Fuel Temperature Sensor 1 Circuit Intermittent  
P0185 Fuel Temperature Sensor 2 Circuit  
P0186 Fuel Temp. Sensor 2 Circuit Performance  
P0187 Fuel Temperature Sensor 2 Circuit Low Voltage  
P0188 Fuel Temperature Sensor 2 Circuit High Voltage  
P0189 Fuel Temperature Sensor 2 Circuit Intermittent  
P0190 Fuel Rail Pressure Sensor Circuit  
P0191 Fuel Rail Pressure Sensor Circuit Performance  
P0192 Fuel Rail Pressure Sensor Circuit Low Voltage  
P0193 Fuel Rail Pressure Sensor Circuit High Voltage  
P0194 Fuel Rail Pressure Sensor Circuit Intermittent  
P0195 Engine Oil Temperature Sensor  
P0196 Engine Oil Temperature Sensor Performance  
P0197 Engine Oil Temperature Sensor Low Voltage  
P0198 Engine Oil Temperature Sensor High  
P0199 Engine Oil Temperature Sensor Intermittent  
P0200 Injector Control Circuit  
P0201 Injector 1 Control Circuit  
P0202 Injector 2 Control Circuit  
P0203 Injector 3 Control Circuit  
P0204 Injector 4 Control Circuit  
P0205 Injector 5 Control Circuit  
P0206 Injector 6 Control Circuit  
P0207 Injector 7 Control Circuit  
P0208 Injector 8 Control Circuit  
P0209 Injector 9 Control Circuit  
P0210 Injector 10 Control Circuit

P0211 Injector 11 Control Circuit  
P0212 Injector 12 Control Circuit  
P0213 Cold Start Injector 1  
P0214 Cold Start Injector 2  
P0215 Engine Shutoff Control Circuit  
P0216 Injection Timing Control Circuit  
P0217 Engine Overtemp Condition  
P0218 Transmission Fluid Overtemperature  
P0219 Engine Overspeed Condition  
P0220 APP Sensor 2 Circuit  
P0221 APP Sensor 2 Circuit Performance  
P0222 APP Sensor 2 Circuit Low Voltage  
P0223 APP Sensor 2 Circuit High Voltage  
P0224 Throttle Position Sensor 2 Intermittent  
P0225 APP Sensor 3 Circuit  
P0226 APP Sensor 3 Circuit Performance  
P0227 APP Sensor 3 Circuit Low Voltage  
P0228 APP Sensor 3 Circuit High Voltage  
P0229 Throttle Position Sensor 3 Intermittent  
P0230 Fuel Pump Relay Control Cir  
P0231 Fuel Pump Feedback Circuit Low Voltage  
P0232 Fuel Pump Feedback Circuit High Voltage  
P0233 Fuel Pump Secondary Circuit Intermittent  
P0234 TC Engine Overboost Condition  
P0235 Turbocharger Boost Sensor 1 Circuit  
P0236 TC Boost System  
P0237 TC Boost Sensor Circuit Low Voltage  
P0238 TC Boost Sensor Circuit High Voltage  
P0239 Turbocharger Boost Sensor 2 Circuit  
P0240 Turbocharger Boost Sensor 2 Performance  
P0241 Turbocharger Boost Sensor 2 Circuit Low Voltage  
P0242 Turbocharger Boost Sensor 2 Circuit High Voltage  
P0243 Turbocharger Wastegate Solenoid 1  
P0244 Turbocharger Wastegate Solenoid 1 Performance  
P0245 Turbocharger Wastegate Solenoid 1 Low Voltage  
P0246 Turbocharger Wastegate Solenoid 1 High Voltage  
P0247 Turbocharger Wastegate Solenoid 2  
P0248 Turbocharger Wastegate Solenoid 2 Performance  
P0249 Turbocharger Wastegate Solenoid 2 Low Voltage  
P0250 Turbocharger Wastegate Solenoid 2 High Voltage  
P0251 Injection Pump Fuel Metering Control "A" Malfunction (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" Malfunction (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  
P0263 Cylinder 1 Contribution/Balance Fault  
P0264 Cylinder 2 Injector Circuit Low  
P0265 Cylinder 2 Injector Circuit High  
P0266 Cylinder 2 Contribution/Balance Fault  
P0267 Cylinder 3 Injector Circuit Low  
P0268 Cylinder 3 Injector Circuit High  
P0269 Cylinder 3 Contribution/Balance Fault  
P0270 Cylinder 4 Injector Circuit Low

P0271 Cylinder 4 Injector Circuit High  
 P0272 Cylinder 4 Contribution/Balance Fault  
 P0273 Cylinder 5 Injector Circuit Low  
 P0274 Cylinder 5 Injector Circuit High  
 P0275 Cylinder 5 Contribution/Balance Fault  
 P0276 Cylinder 6 Injector Circuit Low  
 P0277 Cylinder 6 Injector Circuit High  
 P0278 Cylinder 6 Contribution/Balance Fault  
 P0279 Cylinder 7 Injector Circuit Low  
 P0280 Cylinder 7 Injector Circuit High  
 P0281 Cylinder 7 Contribution/Balance Fault  
 P0282 Cylinder 8 Injector Circuit Low  
 P0283 Cylinder 8 Injector Circuit High  
 P0284 Cylinder 8 Contribution/Balance Fault  
 P0285 Cylinder 9 Injector Circuit Low  
 P0286 Cylinder 9 Injector Circuit High  
 P0287 Cylinder 9 Contribution/Balance Fault  
 P0288 Cylinder 10 Injector Circuit Low  
 P0289 Cylinder 10 Injector Circuit High  
 P0290 Cylinder 10 Contribution/Balance Fault  
 P0291 Cylinder 11 Injector Circuit Low  
 P0292 Cylinder 11 Injector Circuit High  
 P0293 Cylinder 11 Contribution/Balance Fault  
 P0294 Cylinder 12 Injector Circuit Low  
 P0295 Cylinder 12 Injector Circuit High  
 P0296 Cylinder 12 Contribution/Range Fault  
 P0300 Engine Misfire Detected  
 P0301 Cylinder 1 Misfire Detected  
 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  
 P0311 Cylinder 11 Misfire Detected  
 P0312 Cylinder 12 Misfire Detected  
 P0320 Ignition/Distributor Engine Speed Input Circuit Malfunction  
 P0321 Ignition/Distributor Engine Speed Input Circuit Range/Performance  
 P0322 IC Module 4X Reference CKT No Frequency  
 P0323 Ignition/Distributor Engine Speed Input Circuit Intermittent  
 P0325 PCM Knock Sensor Circuit  
 P0326 Knock Sensor CKT Excessive Spark Retard  
 P0327 Knock Sensor Circuit Low Voltage  
 P0328 Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)  
 P0329 Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor)  
 P0330 Knock Sensor (KS) 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 Intermittent (Bank 2)  
 P0335 CKP Sensor A Circuit Performance  
 P0336 Crankshaft Position (CKP) Sensor A Performance  
 P0337 Crankshaft Position (CKP) Sensor Circuit Low Duty Cycle  
 P0338 Crankshaft Position (CKP) Sensor Circuit High Duty Cycle  
 P0339 Crankshaft Position (CKP) Sensor Circuit Intermittent  
 P0340 Camshaft Position (CMP) Sensor Circuit  
 P0341 Camshaft Position (CMP) Sensor Performance  
 P0342 Camshaft Position Sensor Circuit Low Input  
 P0343 Camshaft Position Sensor Circuit High Input  
 P0344 Camshaft Position Sensor Circuit Intermittent  
 P0350 Ignition Coil Primary/Secondary Circuit Malfunction  
 P0351 Ignition Coil 1 Control Circuit  
 P0352 Ignition Coil 2 Control Circuit  
 P0353 Ignition Coil 3 Control Circuit  
 P0354 Ignition Coil 4 Control Circuit  
 P0355 Ignition Coil 5 Control Circuit  
 P0356 Ignition Coil 6 Control Circuit  
 P0357 Ignition Coil 7 Control Circuit  
 P0358 Ignition Coil 8 Control Circuit  
 P0359 Ignition Coil 1 Primary/Secondary Circuit Malfunction  
 P0360 Ignition Coil J Primary/Secondary Circuit Malfunction  
 P0361 Ignition Coil K Primary/Secondary Circuit Malfunction  
 P0362 Ignition Coil L Primary/Secondary Circuit Malfunction  
 P0370 Timing Reference High Resolution Signal A Malfunction  
 P0371 IC 24X Reference CKT Too Many Pulses  
 P0372 IC 24X Reference Circuit Missing Pulses  
 P0373 Timing Reference High Resolution Signal A Intermittent/Erratic Pulses  
 P0374 Timing Reference High Resolution Signal A No Pulses  
 P0375 Timing Reference High Resolution Signal B Malfunction  
 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" Malfunction  
 P0381 Glow Plug/Heater Indicator Circuit Malfunction  
 P0382 Exhaust Gas Recirculation Flow Malfunction  
 P0385 Crankshaft Position (CKP) Sensor B Circuit  
 P0386 Crankshaft Position (CKP) Sensor B Performance  
 P0387 Crankshaft Position Sensor B Circuit Low Input  
 P0388 Crankshaft Position Sensor B Circuit High Input  
 P0389 Crankshaft Position Sensor B Circuit Intermittent  
 P0400 Exhaust Gas Recirculation Flow Malfunction  
 P0401 Exhaust Gas Recirculation (EGR) Flow Insufficient  
 P0402 Exhaust Gas Recirculation Flow Excessive Detected  
 P0403 Exhaust Gas Recirculation (EGR) Solenoid Control Circuit  
 P0404 Exhaust Gas Recirculation (EGR) Open Position Performance  
 P0405 Exhaust Gas Recirculation (EGR) Position Sensor Circuit Low Voltage  
 P0406 Exhaust Gas Recirculation Sensor A Circuit High  
 P0407 Exhaust Gas Recirculation Sensor B Circuit Low  
 P0408 Exhaust Gas Recirculation Sensor B Circuit High  
 P0410 Secondary Air Injection (AIR) System  
 P0411 Secondary Air Injection (AIR) System  
 P0412 Secondary Air Injection (AIR) Solenoid Relay Control Circuit Bank 1  
 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 Malfunction  
 P0416 Secondary Air Injection System Switching Valve B Circuit Open  
 P0417 Secondary Air Injection System Switching Valve B Circuit Shorted  
 P0418 Secondary Air Injection (AIR) Pump Relay Control Circuit Bank 1  
 P0419 Secondary Air Injection (AIR) Pump Relay Control Circuit Bank 2  
 P0420 Catalyst System Low Efficiency  
 P0421 Warm Up Catalyst Efficiency Below Threshold (Bank 1)  
 P0422 Catalyst System Low Efficiency Bank 1  
 P0423 Heated Catalyst Efficiency Below Threshold (Bank 1)  
 P0424 Heated Catalyst Temperature Below Threshold (Bank 1)  
 P0430 Catalyst System Low Efficiency Bank 2  
 P0431 Warm Up Catalyst Efficiency Below Threshold (Bank 2)  
 P0432 Catalyst System Low Efficiency Bank 2

P0433 Heated Catalyst Efficiency Below Threshold (Bank 2)  
 P0434 Heated Catalyst Temperature Below Threshold (Bank 2)  
 P0440 Evaporative Emission (EVAP) System  
 P0441 Evaporative Emission Control System Incorrect Purge Flow  
 P0442 Evaporative Emission (EVAP) System Small Leak Detected  
 P0443 EVAP Purge Solenoid Valve 1 Control CKT  
 P0444 Evaporative Emission Control System Purge Control Valve Circuit Open  
 P0445 Evaporative Emission Control System Purge Control Valve Circuit Shorted  
 P0446 EVAP Vent Solenoid Valve Control System  
 P0447 Evaporative Emission Control System Vent Control Circuit Open  
 P0448 Evaporative Emission Control System Vent Control Circuit Shorted  
 P0449 Evaporative Emission (EVAP) Vent Solenoid Control Circuit  
 P0450 Fuel Tank Pressure Sensor Circuit  
 P0451 Evaporative Emission Control System Pressure Sensor Range/Performance  
 P0452 Fuel Tank Pressure Sensor Circuit Low Voltage  
 P0453 Fuel Tank Pressure Sensor Circuit High Voltage  
 P0454 Evaporative Emission Control System Pressure Sensor Intermittent  
 P0455 Evaporative Emission (EVAP) System Leak Detected  
 P0460 Fuel Level Sensor Circuit  
 P0461 Fuel Level Sensor Performance  
 P0462 Fuel Level Sensor Circuit Low Voltage  
 P0463 Fuel Level Sensor Circuit High Voltage  
 P0464 Fuel Level Sensor Circuit Intermittent  
 P0465 Purge Flow Sensor Circuit Malfunction  
 P0466 Purge Flow Sensor Circuit Range/Performance  
 P0467 Purge Flow Sensor Circuit Low Input  
 P0468 Purge Flow Sensor Circuit High Input  
 P0469 Purge Flow Sensor Circuit Intermittent  
 P0470 Exhaust Pressure Sensor Malfunction  
 P0471 Exhaust Pressure Sensor Range/Performance  
 P0472 Exhaust Pressure Sensor Low  
 P0473 Exhaust Pressure Sensor High  
 P0474 Exhaust Pressure Sensor Intermittent  
 P0475 Exhaust Pressure Control Valve Malfunction  
 P0476 Exhaust Pressure Control Valve Range/Performance  
 P0477 Exhaust Pressure Control Valve Low  
 P0478 Exhaust Pressure Control Valve High  
 P0479 Exhaust Pressure Control Valve Intermittent  
 P0480 Cooling Fan Relay 1 Control Circuit  
 P0481 Cooling Fan Relay 2 Control Circuit  
 P0482 Cooling Fan 3 Control Circuit Malfunction  
 P0483 Cooling Fan Rationality Check Malfunction  
 P0484 Cooling Fan Circuit Over Current  
 P0485 Cooling Fan Power/Ground Circuit Malfunction  
 P0500 Vehicle Speed Sensor (VSS) Circuit  
 P0501 Vehicle Speed Sensor Range/Performance  
 P0502 Vehicle Speed Sensor (VSS) Circuit Low Input  
 P0503 Vehicle Speed Sensor (VSS) Circuit Intermittent  
 P0505 Idle Control System Malfunction  
 P0506 Idle Speed Low  
 P0507 Idle Speed High  
 P0510 Closed Throttle Position Switch Malfunction  
 P0512 Start Switch Circuit  
 P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction  
 P0521 Engine Oil Pressure Sensor/Switch Circuit Range/Performance  
 P0522 Engine Oil Pressure Sensor/Switch Circuit Low Voltage  
 P0523 Engine Oil Pressure Sensor/Switch Circuit High Voltage  
 P0530 A/C Refrigerant Pressure Sensor Circuit Malfunction  
 P0531 A/C Refrigerant Pressure Sensor Circuit Range/Performance  
 P0532 Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit Low Voltage  
 P0533 Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit High Voltage  
 P0534 Air Conditioner Refrigerant Charge Loss  
 P0550 Power Steering Pressure (PSP) Switch 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  
 P0565 Cruise Control On Signal Malfunction  
 P0566 Cruise Control Off Signal Malfunction  
 P0567 Cruise Control Resume Signal Malfunction  
 P0568 Cruise Control Set Signal Malfunction  
 P0569 Cruise Control Coast Signal Malfunction  
 P0570 Cruise Control Accel Signal Malfunction  
 P0571 Cruise Control Brake Switch Circuit  
 P0573 Cruise Control/Brake Switch A Circuit High  
 P0574 Vehicle Speed Too High - Cruise Control Disabled  
 P0575 Cruise Control Related Malfunction  
 P0576 Cruise Control Related Malfunction  
 P0576 Cruise Control Related Malfunction  
 P0576 Cruise Control Related Malfunction  
 P0577 Cruise Control Related Malfunction  
 P0578 Cruise Control Related Malfunction  
 P0579 Cruise Control Related Malfunction  
 P0580 Cruise Control Related Malfunction  
 P0600 Serial Communication Link Malfunction  
 P0601 Control Module Read Only Memory (ROM)  
 P0602 Control Module Not Programmed  
 P0603 Control Module Long Term Memory Reset  
 P0604 Control Module Random Access Memory (RAM)  
 P0605 Control Module Programming Read Only Memory (ROM)  
 P0606 Control Module Internal Performance  
 P0608 Control Module VSS Output "A" Malfunction  
 P0609 Control Module VSS Output "B" Malfunction  
 P0615 Starter Relay Control Circuit  
 P0620 Generator Control Circuit Malfunction  
 P0621 Generator L-Terminal Circuit  
 P0622 Generator F-Terminal Circuit  
 P0650 Malfunction Indicator Lamp (MIL) Control Circuit  
 P0654 Engine RPM Output Circuit Malfunction  
 P0655 Engine Hot Lamp Output Control Circuit Malfunction  
 P0656 Fuel Level Output Circuit Malfunction  
 P0700 Transmission Control System Malfunction  
 P0701 Transmission Control System Range/Performance  
 P0702 Transmission Control System Electrical  
 P0703 Brake Switch Circuit Malfunction  
 P0704 Clutch Switch Input Circuit Malfunction  
 P0705 Trans Range Switch Circuit  
 P0706 Trans Range Switch 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 Malfunction  
 P0711 TFT Sensor Circuit Range/Performance  
 P0712 Transmission Fluid Temperature (TFT) Sensor Circuit Low Input  
 P0713 Transmission Fluid Temperature (TFT) Sensor Circuit High Input  
 P0714 Transmission Fluid Temperature Sensor Circuit Intermittent  
 P0715 Input/Turbine Speed Sensor Circuit Malfunction

P0716 Input Speed Sensor Circuit Intermittent  
 P0717 Input Speed Sensor Circuit Low Input  
 P0718 Input/Turbine Speed Sensor Circuit Intermittent  
 P0719 Brake Switch Circuit Low Input  
 P0720 Output Speed Sensor Circuit Malfunction  
 P0721 Output Speed Sensor Range/Performance  
 P0722 Output Speed Sensor Circuit Low Input  
 P0723 Output Speed Sensor Intermittent  
 P0724 Brake Switch Circuit High Input  
 P0725 Engine Speed Input Circuit  
 P0726 Engine Speed Input Circuit Range/Performance  
 P0727 Engine Speed Circuit No Signal  
 P0728 Engine Speed Input Circuit Intermittent  
 P0730 Incorrect Gear Ratio  
 P0731 Incorrect 1st Gear Ratio  
 P0732 Incorrect 2nd Gear Ratio  
 P0733 Incorrect 3rd Gear Ratio  
 P0734 Incorrect 4th Gear Ratio  
 P0735 Gear 5 Incorrect ratio  
 P0736 Reverse incorrect gear ratio  
 P0740 TCC Enable Solenoid Circuit Electrical  
 P0741 TCC System Stuck Off  
 P0742 TCC System Stuck On  
 P0743 TCC Enable Solenoid Circuit Electrical  
 P0744 Torque Converter Clutch Circuit Intermittent  
 P0745 Pressure Control Solenoid Malfunction  
 P0746 Pressure Control Solenoid Performance or Stuck Off  
 P0747 Pressure Control Solenoid Stuck On  
 P0748 Pressure Control Solenoid Circuit Electrical  
 P0749 Pressure Control Solenoid Intermittent  
 P0750 Shift Solenoid A Malfunction  
 P0751 1-2 Shift Solenoid Valve Performance - No First or Fourth Gear  
 P0752 1-2 Shift Solenoid Valve Performance - No Second or Third Gear  
 P0753 1-2 Shift Solenoid Circuit Electrical  
 P0754 Shift Solenoid A Intermittent  
 P0755 Shift Solenoid B Malfunction  
 P0756 2-3 Shift Solenoid Valve Performance - No First or Second Gear  
 P0757 2-3 Shift Solenoid Valve Performance - No Third or Fourth Gear  
 P0758 2-3 Shift Solenoid Circuit Electrical  
 P0759 Shift Solenoid B Intermittent  
 P0760 Shift Solenoid C Malfunction  
 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 D Malfunction  
 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 Malfunction  
 P0771 Shift Solenoid E Performance or Stuck Off  
 P0772 Shift Solenoid E Stuck On  
 P0773 Shift Solenoid E Electrical  
 P0774 Shift Solenoid E Intermittent  
 P0780 Shift Malfunction  
 P0781 1-2 Shift Malfunction  
 P0782 2-3 Shift Malfunction  
 P0783 3-4 Shift Malfunction  
 P0784 4-5 Shift Malfunction

P0785 3-2 Shift Solenoid Circuit Electrical  
 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 Malfunction  
 P0801 Reverse Inhibit Control Circuit Malfunction  
 P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit Malfunction  
 P0804 1-4 Upshift (Skip Shift) Lamp Control Circuit Malfunction  
 P1031 HO2S Heater Current Monitor Control Circuit Banks 1 and 2 Sensor 1  
 P1032 HO2S Heater Warm Up Control Circuit Banks 1 and 2 Sensor 1  
 P1105 Secondary Vacuum Sensor Circuit  
 P1106 Manifold Absolute Pressure (MAP) Sensor Circuit Intermittent High Voltage  
 P1107 Manifold Absolute Pressure (MAP) Sensor Circuit Intermittent Low Voltage  
 P1108 BARO to MAP Sensor Comparison Too High  
 P1109 Secondary Port Throttle System  
 P1111 Intake Air Temperature (IAT) Sensor Circuit Intermittent High Voltage  
 P1112 Intake Air Temperature (IAT) Sensor Circuit Intermittent Low Voltage  
 P1113 Intake Resonance Switchover Solenoid Control Circuit  
 P1114 Engine Coolant Temperature (ECT) Sensor Circuit Intermittent Low Voltage  
 P1115 Engine Coolant Temperature (ECT) Sensor Circuit Intermittent High Voltage  
 P1116 ECT Signal Unstable or Intermittent  
 P1117 Engine Coolant Temp. Signal Out-Of-Range Low  
 P1118 Engine Coolant Temp. Signal Out-Of-Range High  
 P1119 ECT Signal Out-Of-Range With TFT Sensor  
 P1120 Throttle Position (TP) Sensor 1 Circuit  
 P1121 Throttle Position (TP) Sensor Circuit Intermittent High Voltage  
 P1122 Throttle Position (TP) Sensor Circuit Intermittent Low Voltage  
 P1125 APP System  
 P1130 HO2S Circuit Low Variance Bank 1 Sensor 1  
 P1131 HO2S Circuit Low Variance Bank 1 Sensor 2  
 P1132 HO2S Circuit Low Variance Bank 2 Sensor 1  
 P1133 HO2S Insufficient Switching Bank 1 Sensor 1  
 P1134 HO2S Transition Time Ratio Bank 1 Sensor 1  
 P1135 HO2S Lean Mean Bank 1 Sensor 1  
 P1136 HO2S Rich Mean Bank 1 Sensor 1  
 P1137 HO2S Bank 1 Sensor 2 Lean System or Low Voltage  
 P1138 HO2S Bank 1 Sensor 2 Rich or High Voltage  
 P1139 HO2S Insuff. Switching Bank 1 Sensor 2  
 P1140 HO2S Transition Time Ratio Bank 1 Sensor 2  
 P1141 HO2S Heater Control Circuit Bank 1 Sensor 2  
 P1143 HO2S Bank 1 Sensor 3 Lean System or Low Voltage  
 P1144 HO2S Bank 1 Sensor 3 Rich or High Voltage  
 P1145 HO2S Cross Counts Bank 1 Sensor 3  
 P1153 HO2S Insufficient Switching Bank 2 Sensor 1  
 P1154 HO2S Transition Time Ratio Bank 2 Sensor 1  
 P1155 HO2S Lean Mean Bank 2 Sensor 1  
 P1156 HO2S Rich Mean Bank 2 Sensor 1  
 P1157 HO2S Bank 2 Sensor 2 Lean System or Lo  
 P1158 HO2S Bank 2 Sensor 2 Rich or High Voltage  
 P1159 HO2S Cross Counts Bank 2 Sensor 2  
 P1161 HO2S Heater Control Circuit Bank 2 Sensor 2  
 P1163 HO2S Bank 2 Sensor 3 Lean System or Low Voltage  
 P1164 HO2S Bank 2 Sensor 3 Rich or High Voltage  
 P1165 HO2S Cross Counts Bank 2 Sensor 3  
 P1170 Bank to Bank Fuel Trim Offset  
 P1171 Fuel System Lean During Acceleration  
 P1185 Engine Oil Temperature Circuit  
 P1186 EOT Circuit Performance

P1187 EOT Sensor Ckt. Low Voltage  
 P1188 EOT Sensor Ckt. High Voltage  
 P1189 Engine Oil Pressure (EOP) Switch Circuit  
 P1190 Engine Vacuum Leak  
 P1191 Intake Air Duct Air Leak  
 P1200 Injector Control Circuit  
 P1201 (Alt. Fuel) Gas Mass Sensor Circuit Range/Performance  
 P1202 (Alt. Fuel) Gas Mass Sensor Circuit Low Frequency  
 P1203 (Alt. Fuel) Gas Mass Sensor Circuit High Frequency  
 P1211 Mass Air Flow Circuit Intermittent High  
 P1212 Mass Air Flow Circuit Intermittent Low  
 P1214 Injection Pump Timing Offset  
 P1215 Ground Fault Detection Indicated  
 P1216 Fuel Solenoid Response Time Too Short  
 P1217 Fuel Solenoid Response Time Too Long  
 P1218 Injection Pump Calibration Circuit  
 P1219 Throttle Position Sensor Reference Voltage  
 P1220 Throttle Position (TP) Sensor 2 Circuit  
 P1221 Fuel Pump Secondary Circuit Low  
 P1222 Injector Control Circuit Intermittent  
 P1225 Injector Circuit Cylinder 2 Intermittent  
 P1228 Injector Circuit Cylinder 3 Intermittent  
 P1231 Injector Circuit Cylinder 4 Intermittent  
 P1234 Injector Circuit Cylinder 5 Intermittent  
 P1237 Injector Circuit Cylinder 6 Intermittent  
 P1240 Injector Circuit Cylinder 7 Intermittent  
 P1243 Injector Circuit Cylinder 8 Intermittent  
 P1245 Intake Plenum Switchover Valve  
 P1250 Early Fuel Evaporation Heater Circuit  
 P1257 Supercharger System Overboost  
 P1258 Engine Coolant Overtemperature - Protection Mode Active  
 P1260 Last Test Failed Failed SCC ENTER:More Info.  
 P1270 Accelerator Pedal Position Sensor A/D Converter Error  
 P1271 Accelerator Pedal Position (APP) Sensor 1-2 Correlation  
 P1272 Accelerator Pedal Position Sensor 2  
 P1273 Accelerator Pedal Position Sensor 1  
 P1274 Injectors Wired Incorrectly  
 P1275 Accelerator Pedal Position (APP) Sensor 1 Circuit  
 P1276 Accelerator Pedal Position Sensor 1 Circuit Performance  
 P1277 Accelerator Pedal Position Sensor 1 Circuit Low Voltage  
 P1278 Accelerator Pedal Position Sensor 1 Circuit High Voltage  
 P1280 Accelerator Pedal Position (APP) Sensor 2 Circuit  
 P1281 Accelerator Pedal Position Sensor 2 Circuit Performance  
 P1282 Accelerator Pedal Position Sensor 2 Circuit Low Voltage  
 P1283 Accelerator Pedal Position Sensor 2 Circuit High Voltage  
 P1285 Accelerator Pedal Position Sensor 3 Circuit  
 P1286 Accelerator Pedal Position Sensor 3 Circuit Performance  
 P1287 Accelerator Pedal Position Sensor 3 Circuit Low Voltage  
 P1288 Accelerator Pedal Position Sensor 3 Circuit High Voltage  
 P1300 Ignitor Circuit  
 P1305 Ignition Coil 2 Primary Feedback Circuit  
 P1310 Ignition Coil 3 Primary Feedback Circuit  
 P1315 Ignition Coil 4 Primary Feedback Circuit  
 P1320 IC 4X Reference Circuit Intermittent  
 P1321 Electronic Ignition System Fault Line  
 P1322 EI System or Ignition Control Extra or Missing  
 P1323 IC 24X Reference Circuit Low Frequency  
 P1324 Crank RPM Too Low  
 P1335 CKP Circuit  
 P1336 Crankshaft Position (CKP) System Variation Not Learned  
 P1345 Crankshaft Position (CKP)-Camschaft Position (CMP) Correlation  
 P1346 Intake Camschaft Position [CMP] Sensor System Performance  
 P1350 Ignition Control System  
 P1351 Ignition Coil Control Circuit High Voltage  
 P1352 IC Output High/Pulse Detected when GND\_Cyl. 2  
 P1353 IC Output High/Pulse Detected when GND\_Cyl. 3  
 P1354 IC Output High/Pulse Detected when GND\_Cyl. 4  
 P1355 IC Output High/Pulse Detected when GND\_Cyl. 5  
 P1356 IC Output High/Pulse Detected when GND\_Cyl. 6  
 P1357 IC Output High/Pulse Detected when GND\_Cyl. 7  
 P1358 IC Output High/Pulse Detected when GND\_Cyl. 8  
 P1359 Ignition Coil Group 1 Control Circuit  
 P1360 Ignition Coil Group 2 Control Circuit  
 P1361 Ignition Coil Control Circuit Low Voltage  
 P1362 IC Cylinder 2 Not Toggling After Enable  
 P1363 IC Cylinder 3 Not Toggling After Enable  
 P1364 IC Cylinder 4 Not Toggling After Enable  
 P1365 IC Cylinder 5 Not Toggling After Enable  
 P1366 IC Cylinder 6 Not Toggling After Enable  
 P1367 IC Cylinder 7 Not Toggling After Enable  
 P1368 IC Cylinder 8 Not Toggling After Enable  
 P1370 IC 4X Reference Circuit Too Many Pulses  
 P1371 IC 4X Reference Circuit Too Few Pulses  
 P1372 Crankshaft Position (CKP) Sensor A-B Correlation  
 P1374 3X Reference Circuit  
 P1375 IC 24X Reference Circuit High Voltage  
 P1376 Ignition Ground Circuit  
 P1377 IC Cam Pulse To 4X Reference Pulse  
 P1380 Misfire Detected - Rough Road Data Not Available  
 P1381 Misfire Detected - No Communication with Brake Control Module  
 P1390 Wheel Speed Sensor 1 - G - Sensor Circuit  
 P1391 Wheel Speed Sensor 1 - G - Sensor Circuit Performance  
 P1392 Wheel Speed Sensor 1 - G - Sensor Circuit Low Voltage  
 P1393 Wheel Speed Sensor 1 - G - Sensor Circuit High Voltage  
 P1394 Wheel Speed Sensor 1 - G - Sensor Circuit Intermittent  
 P1395 Wheel Speed Sensor 2 - G - Sensor Circuit  
 P1396 Wheel Speed Sensor 2 - G - Sensor Circuit Performance  
 P1397 Wheel Speed Sensor 2 - G - Sensor Circuit Low Voltage  
 P1398 Wheel Speed Sensor 2 - G - Sensor Circuit High Voltage  
 P1399 Wheel Speed Sensor 2 - G - Sensor Circuit Intermittent  
 P1403 Exhaust Gas Recirculation System Valve 1  
 P1404 Exhaust Gas Recirculation (EGR) Closed Position Performance  
 P1405 Exhaust Gas Recirculation System Valve 3  
 P1406 EGR Valve Pintle Position Circuit  
 P1407 EGR Air Intrusion in Exhaust Supply to EGR Valve  
 P1408 Intake Manifold Pressure Sensor Circuit  
 P1409 EGR Vacuum System Leak  
 P1410 Fuel Tank Pressure System  
 P1415 Secondary Air Injection (AIR) System Bank 1  
 P1416 Secondary Air Injection (AIR) System Bank 2  
 P1418 Secondary Air Injection System Relay A Control Circuit High  
 P1420 Intake Air Low Pressure Switch Circuit Low Voltage  
 P1421 Intake Air Low Pressure Switch Circuit High Voltage  
 P1423 Intake Air High Pressure Switch Circuit High Voltage  
 P1431 Fuel Level Sensor 2 Circuit Performance  
 P1432 Fuel Level Sensor 2 Circuit Low Voltage  
 P1433 Fuel Level Sensor 2 Circuit High Voltage  
 P1441 Evaporative Emission (EVAP) System Flow During Non-Purge  
 P1442 EVAP Vacuum Sw. High Voltage During Ign. On

P1450 Barometric Pressure Sensor Circuit  
 P1451 Barometric Press. Sensor Performance  
 P1460 Cooling Fan Control System  
 P1460 Misfire Detected With Low Fuel Level  
 P1480 Cooling Fan 1 Control Circuit High  
 P1483 Engine Cooling System Performance  
 P1500 Starter Signal Circuit  
 P1501 Theft Deterrent System  
 P1501 Vehicle Speed Sensor Circuit Intermittent  
 P1502 Theft Deterrent Fuel Enable Signal Not Received  
 P1503 Theft Deterrent Fuel Enable Signal Not Correct  
 P1504 Vehicle Speed Output Circuit  
 P1508 Idle Speed Low - Idle Air Control (IAC) System Not Responding  
 P1509 Idle Speed High - Idle Air Control (IAC) System Not Responding  
 P1510 Throttle Control System Performance - Throttle Limitation Active  
 P1511 Throttle Control System - Backup System Performance  
 P1514 Airflow to TP Sensor Correlation High  
 P1515 Electronic Throttle System Throttle Position  
 P1516 Throttle Actuator Control (TAC) Module Throttle Actuator Position Performance  
 P1517 Electronic Throttle Module  
 P1518 Electronic Throttle Module to PCM Communication  
 P1519 Throttle Actuator Control (TAC) Module Internal Circuit  
 P1520 Transmission Range Switch Circuit  
 P1521 Transmission Engaged at High Throttle Angle  
 P1522 Park/Neutral to Drive/Reverse at High RPM  
 P1523 Throttle Closed Position Performance  
 P1524 Throttle Closed Position Performance  
 P1525 Throttle Body ServiceRequired  
 P1526 Minimum Throttle Position Not Learned  
 P1527 Transmission Range to Pressure Switch Correlation  
 P1528 Governor  
 P1529 Heated Windshield Request Problem  
 P1530 Throttle Actuator Control (TAC) Module Internal Circuit  
 P1531 A/C Low Side Temperature Sensor Fault  
 P1532 A/C Evaporator Temp. Sens. Ckt. Low Voltage  
 P1533 A/C Evaporator Temp. Sens. Ckt. High Voltage  
 P1534 A/C High Side Temp. Sensor Low Voltage  
 P1535 A/C High Side Temperature Sensor Circuit  
 P1536 Engine Coolant Overtemperature - Air Conditioning (A/C) Disabled  
 P1537 A/C Request Circuit Low Voltage  
 P1538 A/C Request Circuit High Voltage  
 P1539 A/C Clutch Status Circuit High Voltage  
 P1540 Air Conditioning (A/C) Refrigerant Overpressure - Air Conditioning (A/C) Disabled  
 P1541 A/C High Side Over Temperature  
 P1542 A/C System High Pressure High Temperature  
 P1543 A/C System Performance  
 P1544 A/C Refrigerant Condition Very Low  
 P1545 Air Conditioning (A/C) Clutch Relay Control Circuit  
 P1546 A/C Clutch Status Circuit Low Voltage  
 P1547 A/C System Performance Degraded  
 P1548 A/C Recirculation Circuit  
 P1554 Cruise Control Feedback Circuit  
 P1555 Electronic Variable Orifice Output  
 P1558 Cruise Control Servo Indicates Low  
 P1559 Cruise Control Power Management Mode  
 P1560 Transaxle Not in Drive - Cruise Control Disabled  
 P1561 Cruise Vent Solenoid  
 P1562 Cruise Vacuum Solenoid  
 P1563 Cruise Vehicle Speed/Set Speed Difference Too High  
 P1564 Vehicle Acceleration Too High - Cruise Control Disabled  
 P1565 Cruise Servo Position Sensor  
 P1566 Engine RPM Too High - Cruise Control Disabled  
 P1567 Active Banking Control Active - Cruise Control Disabled  
 P1568 Cruise Servo Stroke Greater than Commanded in Cruise  
 P1569 Cruise Servo Stroke High While not in Cruise  
 P1570 Traction Control Active - Cruise Control Disabled  
 P1571 Traction Control Torque Request Circuit  
 P1572 ASR Active Circuit Low Too Long  
 P1573 PCM/EBTCM Serial Data Circuit  
 P1574 Stoplamp Switch Circuit  
 P1575 ExtendedTravel Brake Switch Circuit  
 P1576 BBV Sensor Ckt. High Voltage  
 P1577 BBV Sensor Ckt. Low Voltage  
 P1578 BBV Sensor Ckt. Low Vacuum  
 P1579 P/N to D/R at HighThrottle Angle - Power Reduction Mode Active  
 P1580 Cruise Move Circuit Low Voltage  
 P1581 Cruise Move Circuit High Voltage  
 P1582 Cruise Direction Circuit Low Voltage  
 P1583 Cruise Direction Circuit High Voltage  
 P1584 Cruise Control Disabled  
 P1585 Cruise Control Inhibit Output Circuit  
 P1586 Cruise Control Brake Switch 2 Circuit  
 P1587 Cruise Control Clutch Control Circuit Low  
 P1588 Cruise Control Clutch Control Circuit High  
 P1599 Engine Stall or Near Stall Detected  
 P1600 TCM Internal Watchdog Operation  
 P1601 Serial Comm. Problem with Device 1  
 P1602 Knock Sensor (KS) Module Performance  
 P1603 Loss os SDM Serial Data  
 P1604 Loss of IPC Serial Data  
 P1605 Loss of HVAC Serial Data  
 P1606 Serial Communication Problem with Device 6  
 P1607 Serial Communication Problem with Device 7  
 P1608 Serial Communication Problem with Device 8  
 P1609 Loss of TCS Serial Data  
 P1610 Loss of PZM Serial Data  
 P1611 Loss of CVRTD Serial Data  
 P1612 Loss of IPM Serial Data  
 P1613 Loss of DIM Serial Data  
 P1614 Loss or RIM Serial Data  
 P1615 Loss of VTD Serial Data  
 P1617 Engine Oil Level Switch Circuit  
 P1619 Engine Oil Life Monitor Reset Circuit  
 P1620 Low Coolant Circuit  
 P1621 Control Module Long Term Memory Performance  
 P1622 Cylinder Select  
 P1623 TransmissionTemp Pull-Up Resistor  
 P1624 Customer Snapshot Requested - Data Available  
 P1625 TCM System Reset  
 P1626 Theft Deterrent Fuel Enable Signal Not Received  
 P1627 A/D Performance  
 P1628 ECT Pull-Up Resistor  
 P1629 Theft Deterrent System - Cranking Signal  
 P1630 Theft Deterrent Learn Mode Active  
 P1631 Theft Deterrent Start Enable Signal Not Correct  
 P1632 Theft Deterrent Fuel Disable Signal Received  
 P1633 Ignition 0 Switch Circuit  
 P1634 Ignition 1 Switch Circuit  
 P1635 5 Volt Reference Circuit  
 P1636 PCM Stack Overrun  
 P1637 Generator L - Terminal Circuit

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 Line6  
 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 Overstressed  
 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 Internal Mode Switch Circuit C - High  
 P1831 PC 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  
 P1868 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



## 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 Program and program back to stock. If the problem goes away 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 Programmer, please call JET at 714-848-5515.

## 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.



[www.jetchip.com](http://www.jetchip.com)

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