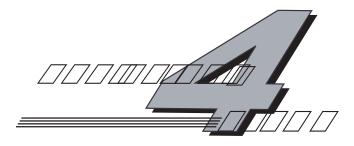




Ford Gasoline Programmer





JET Performance Products 17491 Apex Circle, Huntington Beach, CA 92647 (714) 848-5515 • Fax: (714) 847-6290

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) or turn off headlamps.

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 <u>MUST</u> RETURN THE VEHICLE TO <u>STOCK</u> PROGRAMMING <u>BEFORE</u> 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:

PROGRAMMING DTC READER

- Use the UP/DOWN <u>Arrow Keys</u> and press ENTER to select Programming Functions and continue with <u>step</u> 6 UNLESS THE FOLLOWING MESSAGES APPEAR:
- <u>"NOT FOR THIS VEHICLE"</u> Call JET Customer Service
- <u>"SOFTWARE NEEDS TO BE UPDATED"</u> Call JET Customer Service
- <u>RESTORE FACTORY PROGRAMMING</u> 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.

Use the UP/DOWN <u>Arrow Keys</u> or press **ENTER** to select DTC Reader Functions (see Page7)

ENGINE TUNING

6. Use the UP/DOWN <u>Arrow Keys</u> and press ENTER to select JET EZ Programming (The JET EZ Programming option is engineered to give you the best performance with the easiest installation. By selecting this option the JET Performance Programmer will download the most up to date JET Performance tuning software to increase horsepower and torque based on your fuel grade selection. In addition, automatic transmission equipped vehicles will get improved shifting patterns and increased shift firmness. JET EZ Tuning is a great choice when you want more power without the need for custom tuning.) <u>OR FOR CUSTOM PROGRAMMING</u> See Page 3 Use the UP/DOWN <u>Arrow Keys</u> and press ENTER to select **Custom Programming** Options (The Custom Programming option on the JET Performance Programmer allows the user to install JET Performance Engine tuning based on your fuel grade selection. In addition it allows the user to select custom changes such as shift points, shift firmness, rev limits, and speed limiters based on tire ratings. If you have changed the tires or gears on your vehicle and need to correct the speedometer because of the changes this is the program you will want to use.)

MODIFY ENGINE TUNING? YES or NO

 Use <u>Arrow keys</u> to scroll through fuel grade options and press ENTER to select. NOTE: All of the fuel selections will provide performance gains, for maximum results the use of premium fuel is recommended.

NOTE: NOT ALL OF THE FOLLOWING OPTIONS ARE AVAILABLE ON ALL VEHICLES IF THE OPTION IS NOT AVAILABLE FOR YOUR VEHICLE IT WILL NOT APPEAR ON THE SCREEN

AUTOMATIC TRANSMISSION

 Select YES if you have an automatic transmission; if you had previously selected JET EZ Programming, programming will begin immediately see <u>step</u> <u>23</u>, if you are doing Custom Programming continue with <u>step 9</u>.

Select **NO** if you have a manual transmission and please note the following; If you had previously selected **JET EZ** Programming, programming will begin see <u>step 23</u>, If you are doing Custom Programming continue with <u>step 12</u>.

SHIFT POINTS

This allows you to change the Wide Open Throttle (WOT) shift points in your Automatic transmission for the 1-2, 2-3 and 3-4 shift points. You can select to increase or decrease your shift points based on the mile per hour you want raise or lower the shift points. <u>NOTE:</u> If you raise your shift points more than 1 or 2 MPH it may be necessary to raise the RPM Limiter also.

- 9. Select **YES** to modify shift points and continue with step 10, Select **NO** to leave shift points stock and continue with <u>step 11</u>
- Select YES to modify 1-2 shift, use <u>Arrow Keys</u> to move mph up or down and press ENTER to select, do the same for 2-3, 3-4 shifts. Select NO to leave stock.

SHIFT FIRMNESS

11. Select YES to increase shift firmness, Select NO to leave stock.

RPM LIMITER

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

- Select YES to modify RPM limiter and continue with <u>step 13</u>, Select NO to leave RPM limits stock and continue with <u>step 14</u>
- 13. Press Arrow Keys to select RPM limit change and press ENTER to select.

SPEED LIMITER

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

- Select YES to Modify Speed Limiter and continue with <u>step 15</u>, Select NO to leave stock and continue to <u>step 16</u>
- **15.** Press <u>Arrow Keys</u> to modify speed limiter based on tire rating and press **ENTER** to select.

MODIFIED THERMOSTAT Y/N?

This option changes the temperature that the electric fans turn on/off based on the thermostat that you are using. Included are options for 160 degree, 180 degree and 195 degree thermostats.

- Select YES to modify Thermostat temperature and continue with <u>step 17</u>, Select NO to leave stock and continue with <u>step 18</u>.
- 17. Press <u>Arrow Keys</u> to select correct thermostat temperature and press **ENTER** to select.

MODIFIED TIRE SIZE

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

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

- Select YES to correct for tire size changes and continue with <u>step 19</u>, Select NO for no changes and continue with <u>step 20.</u>
- 19. Press Arrow Keys to select correct tire size and press Enter to select.

MODIFIED GEAR RATIO

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

20. Select YES to correct for gear ratio changes and continue with step 21,

Select NO for no changes and continue with step 22.

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

MODIFY CHOICES

22. Select <u>YES</u> to return to the begining and Modify Choices to this Custom Tune.

Select <u>NO</u> if choices are correct and programming will begin.

 Programming has begun, <u>do not disturb the cable, key position or</u> operate anything in the vehicle during the programming process.

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

- 24. 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).
- **25.** 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.
- **26.** Start the vehicle and verify that the service engine light is <u>NOT</u> on. If your vehicle will not start, see page 6 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 programing 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 <u>DO NOT</u> 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. <u>DON'T TRY TO START THE</u> <u>VEHICLE YET.</u>
- 7. Wait 15-20 seconds the insert the key into the ignition.
- 8. Turn the key to the run position, but <u>DO NOT</u> 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 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.
- 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:

PROGRAMMING

DTC READER

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

DTC READER MONITORING

5. Select DTC READER OR MONITORING.

If you selected **DTC READER** 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.

If there are DTC's stored and you want to clear them continue to the CLEAR DTCS YES or NO screen and select YES.

If you selected **MONITORING** 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 ENTER key. After you are finished with your monitoring session simply turn the vehicle off and unplug the programmer.

P00010 A Camshaft Pos Actuator Circuit Bank 1 P0011 A Camshaft Pos Timina - 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 Timinng - Oveer Retarded Bank 1 P0020 A Camshaft Pos Actuator Circuuit 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 Crl 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 Ctrol Circuit Lo Bank 1 Sensor 3 P0044 HO2S Heater Ctrillill 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 Exhause 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 Exhause Valve Ctrl Ciiircuit Bank 2 P0085 Exhaust Valve Ctrl Circuit Lo Bank 2 P0086 Exhaust Valve Ctrl Circuit Hi Bank 2 P0087 Fuel Rail/Svs 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 P0126 Insufficient ECT for Stable Operation P0127 Intake Air Temmmmmp 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

P0211 Injector 11 Control Circuit P0150 Oxy Sensor Circuit Bank 2, Sensor 1 P0212 Injector 12 Control Circuit P0151 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 1 P0213 Cold Start Injector 1 P0152 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 1 P0153 Oxy Sensor Circuit Slow Response Bank 2, SensorP0214 Cold Start Injector 2 P0154 Oxy Sensor Circuit No Activity Detected Bank 2, 89235rEngine Shutoff Control Circuit P0155 Heated Oxy Sensor Heater Circuit Bank 2, Sensor P0216 Injection Timing Control Circuit P0217 Engine Overtemp Condition P0156 Oxv Sensor Circuit Bank 2... Sensor P0218 Transmission Fluid Overtemperature P0157 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 2 P0219 Engine Overspeed Condition P0158 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 2 P0159 Oxy Sensor Circuit Slow Response Bank 2, Sensor 20220 APP Sensor 2 Circuit P0160 Oxy Sensor Circuit No Activity Detected Bank 2, 8023 r2PP Sensor 2 Circuit Performance P0161 Heated Oxy Sensor Heater Circuit Bank 2, Sensor 2222 APP Sensor 2 Circuit Low Voltage P0223 APP Sensor 2 Circuit High Voltage P0162 Oxy Sensor Circcuit Bank 2, Sensor 3 P0224 Throttle Position Sensor 2 Intermittent P0163 Oxy Sensor Circuit Lo Voltage Bank 2, Sensor 3 P0225 APP Sensor 3 Circuit P0164 Oxy Sensor Circuit Hi Voltage Bank 2, Sensor 3 P0165 Oxy Sensor Circuit Slow Response Bank 2, Sensor P0226 APP Sensor 3 Circuit Performance P0166 Oxy Sensor Circuit No Activity Detected Bank 2, BenzarAPP Sensor 3 Circuit Low Voltage P0167 Heated Oxy Sensor Heater Circuit Bank 2, Sensor 9228 APP Sensor 3 Circuit High Voltage P0229 Throttle Position Sensor 3 Intermittent P0168 Ena Fuel Temp Hi P0230 Fuel Pump Relay Control Cir P0169 Incorrect Fuel Composition P0231 Fuel Pump Feedback Circuit Low Voltage P0170 Fuel Trim Error Bank 1 P0232 Fuel Pump Feedback Circuit High Voltage P0171 Fuel Trim System Lean Bank 1 P0172 Fuel Trim System Rich Bank 1 P0233 Fuel Pump Secondary Circuit Intermittent P0234 TC Engine Overboost Condition P0173 Fuel Trim Bank 2 P0235 Turbocharaer Boost Sensor 1 Circuit P0174 Fuel Trim System Lean Bank 2 P0236 TC Boost System P0175 Fuel Trim System Rich Bank 2 P0237 TC Boost Sensor Circuit Low Voltage P0176 Fuel Composition Sensor Circuit P0238 TC Boost Sensor Circuit High Voltage P0177 Fuel Composition Sensor Circuit Performance P0239 Turbocharger Boost Sensor 2 Circuit P0178 Fuel Composition Sensor Circuit Low Voltage P0240 Turbocharger Boost Sensor 2 Performance P0179 Fuel Composition Sensor Circuit High Voltage P0241 Turbocharger Boost Sensor 2 Circuit Low Voltage P0180 Fuel Temperature Sensor 1 Circuit P0242 Turbocharger Boost Sensor 2 Circuit High Voltage Fuel Cepter Fuel Temp. Sensor 1 Circuit Performance P0243 Turbocharger Wastegate Solenoid 1 P0182 Fuel Temperature Sensor Circuit Low Voltage P0244 Turbocharger Wastegate Solenoid 1 Performance P0183 Fuel Temperature Sensor Circuit High Voltage P0245 Turbocharger Wastegate Solenoid 1 Low Voltage P0184 Fuel Temperature Sensor 1 Circuit Intermittent P0185 Fuel Temperature Sensor 2 Circuit P0246 Turbocharger Wastegate Solenoid 1 High Voltage P0247 Turbocharger Wastegate Solenoid 2 P0186 Fuel Temp, Sensor 2 Circuit Performance P0248 Turbocharaer Wastegate Solenoid 2 Performance P0187 Fuel Temperature Sensor 2 Circuit Low Voltage P0188 Fuel Temperature Sensor 2 Circuit High Voltage P0249 Turbocharger Wastegate Solenoid 2 Low Voltage P0250 Turbocharaer Wastegate Solenoid 2 High Voltage P0189 Fuel Temperature Sensor 2 Circuit Intermittent P0251 Injection Pump Fuel Metering Control "A" Malfunction (Cam/Rotor/Inj P0190 Fuel Rail Pressure Sensor Circuit P0252 Injection Pump Fuel Metering Control "A" Range/Performance (Cam/ P0191 Fuel Rail Pressure Sensor Circuit Performance P0253 Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector) P0192 Fuel Rail Pressure Sensor Circuit Low Voltage P0254 Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector) P0193 Fuel Rail Pressure Sensor Circuit High Voltage P0255 Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Inje P0194 Fuel Rail Pressure Sensor Circuit Intermittent P0256 Injection Pump Fuel Metering Control "B" Malfunction (Cam/Rotor/Inje P0195 Engine Oil Temperature Sensor P0257 Injection Pump Fuel Metering Control "B" Range/Performance (Cam/ P0196 Engine Oil Temperature Sensor Performance P0258 Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector) P0197 Engine Oil Temperature Sensor Low Voltage P0259 Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector) P0198 Engine Oil Temperature Sensor High P0260 Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Inje P0199 Engine Oil Temperature Sensor Intermittent P0261 Cylinder 1 Injector Circuit Low P0200 Injector Control Circuit P0262 Cylinder 1 Injector Circui P0201 Injector 1 Control Circuit P0263 Cylinder 1 Contribution/Balance Fault P0202 Injector 2 Control Circuit P0264 Cylinder 2 Injector Circuit Low P0203 Injector 3 Control Circuit P0265 Cylinder 2 Injector Circuit High P0204 Injector 4 Control Circuit P0266 Cylinder 2 Contribution/Balance Fault P0205 Injector 5 Control Circuit P0267 Cylinder 3 Injector Circuit Low P0206 Injector 6 Control Circuit P0268 Cylinder 3 Injector Circuit High P0207 Injector 7 Control Circuit P0269 Cylinder 3 Contribution/Balance Fault P0208 Injector 8 Control Circuit P0209 Injector 9 Control Circuit P0270 Cylinder 4 Injector Circuit Low P0210 Injector 10 Control Circuit

P0271 Cylinder 4 Injector Circuit High P0342 Camshaft Position Sensor Circuit Low Input P0272 Cylinder 4 Contribution/Balance Fault P0343 Camshaft Position Sensor Circuit High Input P0273 Cylinder 5 Injector Circuit Low P0344 Camshaft Position Sensor Circuit Intermittent P0274 Cylinder 5 Injector Circuit High P0350 Ignition Coil Primary/Secondary Circuit Malfunction P0275 Cylinder 5 Contribution/Balance Fault P0351 Ignition Coil 1 Control Circuit P0276 Cylinder 6 Injector Circuit Low P0352 Ignition Coil 2 Control Circuit P0277 Cylinder 6 Injector Circuit High P0353 Ignition Coil 3 Control Circuit P0278 Cylinder 6 Contribution/Balance Fault P0354 Ignition Coil 4 Control Circuit P0279 Cylinder 7 Injector Circuit Low P0355 Ignition Coil 5 Control Circuit P0280 Cylinder 7 Injector Circuit High P0356 Ignition Coil 6 Control Circuit P0281 Cylinder 7 Contribution/Balance Fault P0357 Ignition Coil 7 Control Circuit P0282 Cylinder 8 Injector Circuit Low P0358 Ignition Coil 8 Control Circuit P0283 Cylinder 8 Injector Circuit High P0359 Ignition Coil I Primary/Secondary Circuit Malfunction P0284 Cylinder 8 Contribution/Balance Fault P0360 Ignition Coil J Primary/Secondary Circuit Malfunction P0285 Cylinder 9 Injector Circuit Low P0361 Ignition Coil K Primary/Secondary Circuit Malfunction P0286 Cylinder 9 Injector Circuit High P0362 Janition Coil L Primary/Secondary Circuit Malfunction P0287 Cylinder 9 Contribution/Balance Fault P0370 Timing Reference High Resolution Signal A Malfunction P0288 Cylinder 10 Injector Circuit Low P0371 IC 24X Reference CKT Too Many Pulses P0289 Cylinder 10 Injector Circuit High P0372 IC 24X Reference Circuit Missing Pulses P0290 Cylinder 10 Contribution/Balance Fault P0373 Timing Reference High Resolution Signal A Intermittent/Erration P0291 Cylinder 11 Injector Circuit Low P0374 Timing Reference High Resolution Signal A No Pulses P0292 Cylinder 11 Injector Circuit High P0375 Timing Reference High Resolution Signal B Malfunction P0293 Cylinder 11 Contribution/Balance Fault P0376 Timing Reference High Resolution Signal B Too Many Pulses P0294 Cylinder 12 Injector Circuit I ow P0377 Timing Reference High Resolution Signal B Too Few Pulses P0295 Cylinder 12 Injector Circuit High P0378 Timing Reference High Resolution Signal B Intermittent/Erration P0296 Cylinder 12 Contribution/Range Fault P0379 Timing Reference High Resolution Signal B No Pulses P0300 Engine Misfire Detected P0380 Glow Plug/Heater Circuit "A" Malfunction P0301 Cylinder 1 Misfire Detected P0381 Glow Plug/Heater Indicator Circuit Malfunction P0302 Cylinder 2 Misfire Detected P0382 Exhaust Gas Recirculation Flow Malfunction P0303 Cylinder 3 Misfire Detected P0385 Crankshaft Position (CKP) Sensor B Circuit P0304 Cylinder 4 Misfire Detected P0386 Crankshaft Position (CKP) Sensor B Performance P0305 Cylinder 5 Misfire Detected P0387 Crankshaft Position Sensor B Circuit Low Input P0306 Cylinder 6 Misfire Detected P0388 Crankshaft Position Sensor B Circuit High Input P0307 Cylinder 7 Misfire Detected P0389 Crankshaft Position Sensor B Circuit Intermittent P0308 Cylinder 8 Misfire Detected P0400 Exhaust Gas Recirculation Flow Malfunction P0309 Cylinder 9 Misfire Detected P0401 Exhaust Gas Recirculation (EGR) Flow Insufficient P0311 Cylinder 11 Misfire Detected P0402 Exhaust Gas Recirculation Flow Excessive Detected P0312 Cylinder 12 Misfire Detected P0403 Exhaust Gas Recirculation (EGR) Solenoid Control Circuit P0320 Ignition/Distributor Engine Speed Input Circuit Malfunc #0#04 Exhaust Gas Recirculation (EGR) Open Position Performance P0321 Ignition/Distributor Engine Speed Input Circuit Range/RevisionTextorest Gas Recirculation (EGR) Position Sensor Circuit Low \ P0322 IC Module 4X Reference CKT No Frequency P0406 Exhaust Gas Recirculation Sensor A Circuit High P0323 Ignition/Distributor Engine Speed Input Circuit Intermitte0#07 Exhaust Gas Recirculation Sensor B Circuit Low P0325 PCM Knock Sensor Circuit P0408 Exhaust Gas Recirculation Sensor B Circuit High P0326 Knock Sensor CKT Excessive Spark Retard P0410 Secondary Air Injection (AIR) System P0327 Knock Sensor Circuit Low Voltage P0411 Secondary Air Injection (AIR) System P0328 Knock Sensor 1 Circuit High Input (Bank 1 or Single Sen 900)12 Secondary Air Injection (AIR) Solenoid Relay Control Circuit E P0329 Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor) 3 Secondary Air Injection System Switching Valve A Circuit Op P0330 Knock Sensor (KS) Circuit Bank 2 P0414 Secondary Air Injection System Switching Valve A Circuit Sho P0331 Knock Sensor 2 Circuit Range/Performance (Bank 2) P0415 Secondary Air Injection System Switching Valve B Circuit Mal P0332 Knock Sensor 2 Circuit Low Input (Bank 2) P0416 Secondary Air Injection System Switching Valve B Circuit Ope P0333 Knock Sensor 2 Circuit High Input (Bank 2) P0417 Secondary Air Injection System Switching Valve B Circuit Sho P0334 Knock Sensor 2 Circuit Intermittent (Bank 2) P0418 Secondary Air Injection (AIR) Pump Relay Control Circuit Ban P0335 CKP Sensor A Circuit Performance P0419 Secondary Air Injection (AIR) Pump Relay Control Circuit Ban P0336 Crankshaft Position (CKP) Sensor A Performance P0420 Catalyst System Low Efficiency P0337 Crankshaft Position (CKP) Sensor Circuit Low Duty Cycle0421 Warm Up Catalyst Efficiency Below Threshold (Bank 1) P0338 Crankshaft Position (CKP) Sensor Circuit High Duty Cycle0422 Catalyst System Low Efficiency Bank 1 P0339 Crankshaft Position (CKP) Sensor Circuit Intermittent P0423 Heated Catalyst Efficiency Below Threshold (Bank 1) P0340 Camshaft Position (CMP) Sensor Circuit P0424 Heated Catalyst Temperature Below Threshold (Bank 1) P0341 Camshaft Position (CMP) Sensor Performance 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) P0533 Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit High P0434 Heated Catalyst Temperature Below Threshold (Bank 2) P0534 Air Conditioner Refrigerant Charge Loss P0440 Evaporative Emission (EVAP) System P0550 Power Steering Pressure (PSP) Switch Circuit P0441 Evaporative Emission Control System Incorrect Purge Flow P0551 Power Steering Pressure Sensor Circuit Range/Performance P0442 Evaporative Emission (EVAP) System Small Leak DetectedP0552 Power Steering Pressure Sensor Circuit Low Input P0553 Power Steering Pressure Sensor Circuit High Input P0443 EVAP Purge Solenoid Valve 1 Control CKT P0444 Evaporative Emission Control System Purge Control Valve Offer Valve Offer Possure Sensor Circuit Intermittent P0445 Evaporative Emission Control System Purge Control ValveP056018ystemtedbltage P0446 EVAP Vent Solenoid Valve Control System P0561 System Voltage Unstable P0447 Evaporative Emission Control System Vent Control Circuit P05620 System Voltage Low P0448 Evaporative Emission Control System Vent Control Circuit Rubades System Voltage High P0449 Evaporative Emission (EVAP) Vent Solenoid Control Circuit 0565 Cruise Control On Signal Malfunction P0450 Fuel Tank Pressure Sensor Circuit P0566 Cruise Control Off Signal Malfunction P0451 Evaporative Emission Control System Pressure Sensor RangesbertCorrisencomtrol Resume Signal Malfunction P0452 Fuel Tank Pressure Sensor Circuit Low Voltage P0568 Cruise Control Set Signal Malfunction P0453 Fuel Tank Pressure Sensor Circuit High Voltage P0569 Cruise Control Coast Signal Malfunction P0454 Evaporative Emission Control System Pressure Sensor InterP05560Cruise Control Accel Signal Malfunction P0455 Evaporative Emission (EVAP) System Leak Detected P0571 Cruise Control Brake Switch Circuit P0460 Fuel Level Sensor Circuit P0573 Cruise Control/Brake Switch A Circuit High P0461 Fuel Level Sensor Performance P0574 Vehicle Speed Too High - Cruise Control Disabled : Pulses P0462 Fuel Level Sensor Circuit Low Voltage P0575 Cruise Control Related Malfunction P0463 Fuel Level Sensor Circuit High Voltage P0576 Cruise Control Related Malfunction P0464 Fuel Level Sensor Circuit Intermittent P0576 Cruise Control Related Malfunction P0465 Purge Flow Sensor Circuit Malfunction P0578 Cruise Control Related Malfunction Pulses P0466 Purge Flow Sensor Circuit Range/Performance P0579 Cruise Control Related Malfunction P0467 Purge Flow Sensor Circuit Low Input P0580 Cruise Control Related Malfunction P0468 Purge Flow Sensor Circuit High Input P0600 Serial Communication Link Malfunction P0469 Purge Flow Sensor Circuit Intermittent P0601 Control Module Read Only Memory (ROM) P0470 Exhaust Pressure Sensor Malfunction P0602 Control Module Not Programmed P0471 Exhaust Pressure Sensor Range/Performance P0603 Control Module Long Term Memory Reset P0472 Exhaust Pressure Sensor Low P0604 Control Module Random Access Memory (RAM) P0473 Exhaust Pressure Sensor High P0605 Control Module Programming Read Only Memory (ROM) P0474 Exhaust Pressure Sensor Intermittent P0606 Control Module Internal Performance P0475 Exhaust Pressure Control Valve Malfunction P0608 Control Module VSS Output "A" Malfunction P0476 Exhaust Pressure Control Valve Ranae/Performance P0609 Control Module VSS Output "B" Malfunction P0477 Exhaust Pressure Control Valve Low P0615 Starter Relay Control Circuit P0478 Exhaust Pressure Control Valve High P0620 Generator Control Circuit Malfunction P0479 Exhaust Pressure Control Valve Intermittent P0621 Generator L-Terminal Circuit P0480 Cooling Fan Relay 1 Control Circuit P0622 Generator F-Terminal Circuit P0481 Cooling Fan Relay 2 Control Circuit P0650 Malfunction Indicator Lamp (MIL) Control Circuit /oltage P0482 Cooling Fan 3 Control Circuit Malfunction P0654 Engine RPM Output Circuit Malfunction P0655 Engine Hot Lamp Output Control Circuit Malfucntion P0483 Cooling Fan Rationality Check Malfunction P0484 Cooling Fan Circuit Over Current P0656 Fuel Level Output Circuit Malfunction P0700 Transmission Control System Malfunction P0485 Cooling Fan Power/Ground Circuit Malfunction P0500 Vehicle Speed Sensor (VSS) Circuit P0701 Transmission Control System Range/Performance ank 1 P0501 Vehicle Speed Sensor Range/Performance P0702 Transmission Control System Electrical P0502 Vehicle Speed Sensor (VSS) Circuit Low Input P0703 Brake Switch Circuit Malfunction en rted P0503 Vehicle Speed Sensor (VSS) Circuit Intermittent P0704 Clutch Switch Input Circuit Malfunction function P0505 Idle Control System Malfunction P0705 Trans Range Switch Circuit P0506 Idle Speed Low P0706 Trans Range Switch Performance en P0507 Idle Speed High P0707 Transmission Range Sensor Circuit Low Input ted k 1 P0510 Closed Throttle Position Switch Malfunction P0708 Transmission Range Sensor Circuit High Input k 2 P0512 Start Switch Circuit P0709 Transmission Range Sensor Circuit Intermittent P0710 Transmission Fluid Temperature Sensor Circuit Malfunction P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction P0521 Engine Oil Pressure Sensor/Switch Circuit Range/Perform@02@1 TFT Sensor Circuit Range/Performance P0522 Engine Oil Pressure Sensor/Switch Circuit Low Voltage P0712 Transmission Fluid Temperature (TFT) Sensor Circuit Low Inpu P0523 Engine Oil Pressure Sensor/Switch Circuit High Voltage P0713 Transmission Fluid Temperature (TFT) Sensor Circuit High Inp P0530 A/C Refrigerant Pressure Sensor Circuit Malfunction P0714 Transmission Fluid Temperature Sensor Circuit Intermittent P0531 A/C Refrigerant Pressure Sensor Circuit Range/PerformarR9715 Input/Turbine Speed Sensor Circuit Malfunction P0532 Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit Low Voltage

P0785 3-2 Shift Solenoid Circuit Electrical P0716 Input Speed Sensor Circuit Intermittent P0786 Shift/Timing Solenoid Range/Performance P0717 Input Speed Sensor Circuit Low Input P0787 Shift/Timing Solenoid Low P0718 Input/Turbine Speed Sensor Circuit Intermittent P0788 Shift/Timing Solenoid High P0719 Brake Switch Circuit Low Input P0789 Shift/Timing Solenoid Intermittent P0720 Output Speed Sensor Circuit Malfunction P0790 Normal/Performance Switch Circuit Malfunction P0721 Output Speed Sensor Range/Performance P0801 Reverse Inhibit Control Circuit Malfunction P0722 Output Speed Sensor Circuit Low Input P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit Malfunction P0723 Output Speed Sensor Intermittent P0804 1-4 Upshift (Skip Shift) Lamp Control Circuit Malfunction P0724 Brake Switch Circuit High Input P1031 HO2S Heater Current Monitor Control Circuit Banks 1 and 2 Sensor 1 P0725 Engine Speed Input Circuit P0726 Engine Speed Input Circuit Range/Performance P1032 HO2S Heater Warm Up Control Circuit Banks 1 and 2 Sensor 1 P1105 Secondary Vacuum Sensor Circuit P0727 Engine Speed Circuit No Signal P1106 Manifold Absolute Pressure (MAP) Sensor Circuit Intermittent High Vo P0728 Engine Speed Input Circuit Intermittent P1107 Manifold Absolute Pressure (MAP) Sensor Circuit Intermittent Low Vol-P0730 Incorrect Gear Ratio P1108 BARO to MAP Sensor Comparison Too High P0731 Incorrect 1st Gear Ratio P1109 Secondary Port Throttle System P0732 Incorrect 2nd Gear Ratio P0733 Incorrect 3rd Gear Ratio P1111 Intake Air Temperature (IAT) Sensor Circuit Intermittent High Voltage P1112 Intake Air Temperature (IAT) Sensor Circuit Intermittent Low Voltage P0734 Incorrect 4th Gear Ratio P1113 Intake Resonance Switchover Solenoid Control Circuit P0735 Gear 5 Incorrect ratio P1114 Engine Coolant Temperature (ECT) Sensor Circuit Intermittent Low Vo P0736 Reverse incorrect gear ratio P1115 Engine Coolant Temperature (ECT) Sensor Circuit Intermittent High V P0740 TCC Enable Solenoid Circuit Electrical P1116 ECT Signal Unstable or Intermittent P0741 TCC System Stuck Off P1117 Engine Coolant Temp. Signal Out-Of-Range Low P0742 TCC System Stuck On P0743 TCC Enable Solenoid Circuit Electrical P1118 Engine Coolant Temp. Signal Out-Of-Range High P0744 Torque Converter Clutch Circuit Intermittent P1119 ECT Signal Out-Of-Range With TFT Sensor P1120 Throttle Position (TP) Sensor 1 Circuit P0745 Pressure Control Solenoid Malfunction P1121 Throttle Position (TP) Sensor Circuit Intermittent High Voltage P0746 Pressure Control Solenoid Performance or Stuck Off P1122 Throttle Position (TP) Sensor Circuit Intermittent Low Voltage P0747 Pressure Control Solenoid Stuck On P1125 APP System P0748 Pressure Control Solenoid Circuit Electrical P1130 HO2S Circuit Low Variance Bank 1 Sensor 1 P0749 Pressure Control Solenoid Intermittent P1131 HO2S Circuit Low Variance Bank 1 Sensor 2 P0750 Shift Solenoid A Malfunction P0751 1-2 Shift Solenoid Valve Performance - No First or Fourth GeaP1132 HO2S Circuit Low Variance Bank 2 Sensor 1 P0752 1-2 Shift Solenoid Valve Performance - No Second or Third Ged 33 HO2S Insufficient Switching Bank 1 Sensor 1 P1134 HO2S Transition Time Ratio Bank 1 Sensor 1 P0753 1-2 Shift Solenoid Circuit Electrical P1135 HO2S Lean Mean Bank 1 Sensor 1 P0754 Shift Solenoid A Intermittent P1136 HO2S Rich Mean Bank 1 Sensor 1 P0755 Shift Solenoid B Malfunction P0756 2-3 Shift Solenoid Valve Performance - No First or Second Geb) 137 HO2S Bank 1 Sensor 2 Lean System or Low Voltage P0757 2-3 Shift Solenoid Valve Performance - No Third or Fourth Ged 138 HO2S Bank 1 Sensor 2 Rich or High Voltage P1139 HO2S Insuff. Switching Bank 1 Sensor 2 P0758 2-3 Shift Solenoid Circuit Electrical P1140 HO2S Transition Time Ratio Bank 1 Sensor 2 P0759 Shift Solenoid B Intermittent P1141 HO2S Heater Control Circuit Bank 1 Sensor 2 P0760 Shift Solenoid C Malfunction P1143 HO2S Bank 1 Sensor 3 Lean System or Low Voltage P0761 Shift Solenoid C Performance or Stuck Off P1144 HO2S Bank 1 Sensor 3 Rich or High Voltage P0762 Shift Solenoid C Stuck On P1145 HO2S Cross Counts Bank 1 Sensor 3 P0763 Shift Solenoid C Electrical P1153 HO2S Insufficient Switching Bank 2 Sensor 1 P0764 Shift Solenoid C Intermittent P1154 HO2S Transition Time Ratio Bank 2 Sensor 1 P0765 Shift Solenoid D Malfunction P1155 HO2S Lean Mean Bank 2 Sensor 1 P0766 Shift Solenoid D Performance or Stuck Off P1156 HO2S Rich Mean Bank 2 Sensor 1 P0767 Shift Solenoid D Stuck On P1157 HO2S Bank 2 Sensor 2 Lean System or Lo P0768 Shift Solenoid D Electrical P1158 HO2S Bank 2 Sensor 2 Rich or High Voltage P0769 Shift Solenoid D Intermittent P1159 HO2S Cross Counts Bank 2 Sensor 2 P0770 Shift Solenoid E Malfunction P1161 HO2S Heater Control Circuit Bank 2 Sensor 2 P0771 Shift Solenoid E Performance or Stuck Off P1163 HO2S Bank 2 Sensor 3 Lean System or Low Voltage P0772 Shift Solenoid F Stuck On P1164 HO2S Bank 2 Sensor 3 Rich or High Voltage P0773 Shift Solenoid E Electrical P1165 HO2S Cross Counts Bank 2 Sensor 3 P0774 Shift Solenoid E Intermittent P1170 Bank to Bank Fuel TrimOffset P0780 Shift Malfunction P1171 Fuel System Lean During Acceleration P0781 1-2 Shift Malfunction P1185 Engine Oil Temperature Circuit P0782 2-3 Shift Malfunction P1186 FOT Circuit Performance P0783 3-4 Shift Malfunction P0784 4-5 Shift Malfunction

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 tage P1216 Fuel Solenoid Response Time Too Short age 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 Itaae oltage 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 P1381 Misfire Detected - No Communication with Brake Control 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 El 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 Learne P1345 Crankshaft Position (CKP)-Camshaft Position (CMP) Corre P1346 Intake Camshaft Position (CMP) Sensor System Perform 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 Cvl. 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 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 Perfor 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 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-F 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

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 Swith 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 Watchdoa 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 P7M 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 O Switch Circuit P1634 Ignition 1 Switch Circuit P1635 5 Volt Reference Circuit P1636 PCM Stack Overrun

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 Coolina 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 Kevless Entry Circuit Low P1696 Remote Keyless Entry Voltage High P1700 Transmission Control Module (TCM) Requested MIL Illumination P1701 Trans. MIL Reauest Circuit P1705 P/N Signal Output Circuit

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 TEP Valve Position Switch Circuit P1811 Maximum Adapt and Lona 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 TEP Valve Position Sw.-Reverse With Drive Ratio P1818 TEP Valve Position Sw - Drive Without Drive Ratio P1819 Internal Mode Switch - No Start\Wrong Range P1820 Internal Mode Swith Circuit A Low P1822 Internal Mode Switch Circuit B High P1823 Internal Mode Switch Circuit P Low P1825 Internal Mode Switch - Invalid Range P1826 Internall Mode Swith 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 Timina 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 Voltagge P1895 TCM to ECM Torque Reduction Circuit



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

JET Performance Products 17491 Apex Circle Huntington Beach, CA 92647 (714) 848-5515 • Fax: (714) 847-6290 15043