Superchips 2575 MAX Micro Tuner
General Motors 01-02 GM CK 4.3L V-6 Gasoline Engine Trucks & SUV Series

Vehicle Programming Instructions – Section A

PLEASE READ THIS ENTIRE INSTRUCTION SHEET BEFORE YOU PROCEED

Thank you for choosing the Superchips Model 2575 MAX Micro Tuner, a remarkable instrument that allows you to install a Superchips performance program specifically tuned for your GM vehicle. You can optionally remove the vehicle speed limiter. Later model vehicles also allow speedometer correction to compensate for tire height and/or gear changes. The 2575 MAX Micro Tuner is intended for use on unmodified stock engines.

Use High Octane Fuel

The Superchips performance program requires that you use at least 91 octane fuel. Using a lower octane fuel while the performance program is installed may cause detonation that can be harmful to your engine.

About Maximum Trailer Weight

The original manufacturer of your vehicle has specified a Maximum Trailer Weight for your vehicle. It may be found in your vehicle owner's manual.

This Superchips product is designed to increase your engine power and performance. It does not change the engine, suspension or drive train characteristics that limit the maximum trailer weight your vehicle is designed to tow. Towing trailer weights above the maximum trailer weight specified by the vehicle manufacturer may cause transmission or other damage.

If you wish to tow greater than the maximum trailer weight for your vehicle, modifications to your vehicle may need to be made. Consult your performance auto mechanic for the proper vehicle modifications.

Damage caused by towing weights greater than the maximum trailer weight specified for your vehicle shall not be the responsibility of Superchips, Inc.

Refund Policy

If for any reason during the first thirty (30) days after your purchase of a new Superchips product ("Product"), you may return it to the place you bought it for a full refund of the purchase price, credit or a replacement Product at the dealer's discretion. This Guarantee does not apply to products purchased from on-line Internet auctions nor does it apply to Products purchased used. Follow these procedures to get your refund or replacement.

1. If you are returning a MicroTuner or Flashpaq, use the MicroTuner or Flashpaq to return your vehicle to the stock settings for the vehicle. Instructions are included in the user manual.
2. Put the Product back in its original packaging.
3. Make a copy of your sales receipt. The sales receipt must be from the location where you purchased your Product and must include the name of the business, its address, and the part number or description of the applicable Superchips Product. Invoices, credit card statements, or sales receipts from an online payment service company will not be accepted.
4. Return the Product in its original packaging with a copy of the sales receipt to the place of purchase.

Superchips, Inc.
Limited Warranty

What is Covered? This warranty covers any defects in materials or workmanship in any product sold by Superchips or its affiliates through its authorized dealers ("Product").

How Long Does the Coverage Last? This warranty lasts for one (1) year from the date of purchase. Coverage terminates if you sell or otherwise transfer ownership of the Product.

What will Superchips Do? Superchips will repair or replace the defective or malfunctioning Product or any defective or malfunctioning part thereof at no charge. This warranty covers parts and labor only. Superchips will reimburse you for all reasonable shipping charges within the first thirty (30) days of purchase.

What Does This Warranty Not Cover? This warranty does not cover any problem that is caused by abuse, misuse, acts of God, or improper installation or repair by non-Superchips personnel. This warranty does not cover Products purchased used nor does it apply to Products purchased from on-line auctions or entities that are not Superchips' authorized dealers. This warranty does not cover damage to your vehicle. Use of the Product to change the performance characteristics of your vehicle could invalidate the warranty provided by the vehicle manufacturer. Consult your vehicle warranty before using the Product on your vehicle. **SUPERCHIPS SHALL NOT BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.**

How Do You Get Service? If something goes wrong with your Product during the warranty period, use the following procedure to return the Product to Superchips.

1. Call Superchips' Customer Service at 1-888-227-2447 Monday through Friday from 8:00 am to 5:00 pm EST to request a Return Authorization ("RA") number.
2. Mark the outside of the shipping package with the RA number. Packages that are not marked with the RA number will be refused.
3. Make a copy of your sales receipt. The sales receipt must be from the location where you purchased your Product and must include the name of the business where you purchased the Product and the address of such business. Invoices, credit card statements, or sales receipts from an online payment service company will not be accepted.
4. Send the Product, postage paid, the copy of the sales receipt, a brief written description of the problem, and your contact information to:

Superchips, Inc.
1790 East Airport Blvd
Sanford, FL 32773
Attn: Warranty Claims

We will inspect the Product and either repair it or replace it with a new or rebuilt Product. We reserve the right to use refurbished parts when making repairs.

Your Rights Under State Law: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Your Vehicle's STOCK Program

The MAX MicroTuner stores a copy of your vehicle's original stock computer program. Your vehicle computer must contain the manufacturer's STOCK factory program. If you have used a programmer from another aftermarket company you must use their product to return your computer back to STOCK condition before proceeding. If you have a performance enhancing chip installed, it must be removed.

Your Vehicle and Service Centers

If you need to return your vehicle to a service center, restore the vehicle program to its STOCK program as described below at Step 3. The service center might reprogram your vehicle with an updated program without your knowledge. If your vehicle has not been returned to its STOCK program prior to service, the Superchips MAX Micro Tuner will no longer be able to program your vehicle. Such a failure is not covered by the Superchips warranty.

Vehicle Preparation

Before connecting the MAX Micro Tuner to your vehicle, make sure that all power draining accessories are turned off. Radio, lights, cell phones, etc., all need to be turned off as the MAX Micro Tuner needs full battery voltage to program. Ensure your vehicle battery is fully charged and not connected to a battery charger. Do not leave the MAX Micro Tuner connected and unattended for any length of time to prevent unnecessary battery drain.

Do not remove the programming cable during any programming sequence.

> ***Important Note Regarding Storage of Your MAX Micro Tuner***
>
> It is recommended that you not store your MAX Micro Tuner in your vehicle if ambient temperatures in your area fall below 32°F. Excessively low temperatures can cause malfunction or damage to the MAX Micro Tuner that is not warranted by the Superchips, Inc.

1. Connecting the MAX Micro Tuner to your vehicle

With the ignition switch in the OFF position, locate the diagnostic connector under the dash near the steering wheel or under the Glove box and connect the MAX Micro Tuner cable to the diagnostic connector. (See Figure 1)

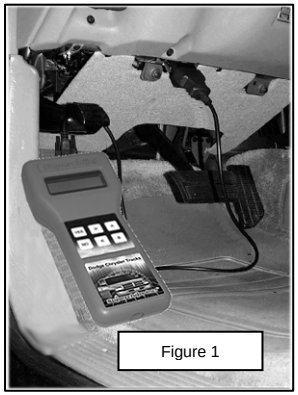


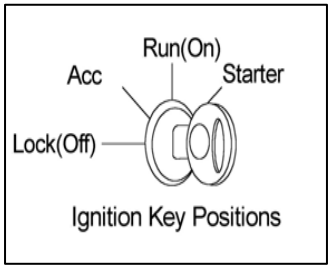
Figure 1

When connected, the MAX Micro Tuner will run a self-test, displaying several start-up messages. Following the start up messages, if the MAX Micro Tuner has been previously used to program a vehicle, it will beep and display:

MICRO TUNER HAS PROGRAMMED

VIN : XXXXXXXXXX XXXXXX

This indicates the MAX Micro Tuner has been previously used to program a vehicle and cannot program another. The MAX Micro Tuner will continue to operate normally on the original vehicle and may be used as a DTC Reader on other GM vehicles.



Ignition Key Positions

2. Selecting Tune Vehicle / Diagnostics

A= TUNE VEHICLE
B= DIAGNOSTICS

Turn the ignition switch to the RUN position. DO NOT START THE ENGINE.

Press the 'A' key on the keypad to continue with the tuning process.

Press the 'B' key to read and/or clear any Diagnostic Trouble Codes from the vehicle. See DTC Reader Instructions and Interpretation in Section B starting on page 9.

3. Vehicle Programming

If the 'A' key has been pressed, the MAX Micro Tuner will beep and display the message:

PRESS "A" TO MODIFY OPTIONS

PRESS "YES" TO PROGRAM PCM

Press 'A' to make changes as shown in *Editing the Custom Options Settings* at Step 7 that follows.

Press 'YES' to install the *Superchips Performance Program* with or without user options selected. The MAX Micro Tuner beeps and displays several screens as follows:

DO NOT REMOVE CABLE

TURN OFF AND DO NOT USE ANY

POWER CONSUMING DEVICES

PRESS "YES" TO ACKNOWLEDGE

Press the 'Yes' Key to acknowledge the warning. The MAX Micro Tuner continues with:

DO NOT REMOVE CABLE UNTIL TOLD

PRESS "YES" TO ACKNOWLEDGE

Press the 'Yes' key again to acknowledge the warning. The MAX Micro Tuner will then begin establishing communications with the PCM.

Once the MAX Micro Tuner has established communications, if it has been previously used to program your vehicle it will display:

PCM WAS ALREADY MODIFIED!

PRESS "A" TO REDOWNLOAD MODS

PRESS "YES" TO DOWNLOAD STOCK

Press 'YES' to install the *Original Stock Program*.

Press 'A' to select user options as described in *Editing the Custom Options Settings* at Step 7 below.

If the MAX Micro Tuner should fail to establish communications with the vehicle PCM, it will beep and display the following prompts:

NO RESPONSE FROM PCM

CHECK CABLE
TURN IGN ON

If the cable has not been connected properly or the ignition is not turned on, you will need to disconnect the MAX Micro Tuner from the vehicle, turn the ignition OFF and start over.

4. Saving the Original STOCK Program for the Vehicle

If the vehicle PCM contains the manufacturer's original STOCK program, it is first saved in the MAX Micro Tuner to allow the vehicle to be reprogrammed to STOCK condition if necessary. The MAX Micro Tuner will beep and display the message:

SAVING PCM
CALIBRATIONS

Upon completion of saving the stock program, the process of programming the vehicle with the Superchips Performance Program begins. The MAX Micro Tuner will display:

PROGRAMMING…
****

The bottom line of the displays shows the progress of programming.

Before programming can be completed, the MAX Micro Tuner will display a series of messages that need to be followed carefully:

TURN IGN OFF

PRESS "YES" WHEN
IGN TURNED OFF

When 'Yes' has been pressed the Micro Tuner will display:

IMPORTANT NOTE
Do not interrupt the MAX Micro Tuner programming cycle or disconnect it from your vehicle until the programming cycle is complete. The entire programming cycle can take several minutes.

DO NOT START
UNTIL TOLD

This message will be displayed for 15 seconds. DO NOT START YOUR VEHICLE during this time. After 15 seconds the Micro Tuner will display:

PROGRAMMING
COMPLETE

TURN IGN OFF
REMOVE CABLE

You may now disconnect the MAX Micro Tuner cable from the diagnostic port and start your vehicle.

5. End of Programming Sequence

The programming sequence is now complete. Once the programming sequence has been successfully accomplished on a vehicle, the MAX Micro Tuner becomes LOCKED to that vehicle. The MAX Micro Tuner may not be used to tune any other vehicle. The MAX Micro Tuner may be used on other GM vehicles as a DTC Reader.

6. Recovering the PCM

Occasionally during programming the MAX Micro Tuner will not be able to finish programming. This can be caused by an interrupt in communications, removal of the programming cable, power fluctuations, etc. These errors can cause a vehicle not to start.

The MAX Micro Tuner is equipped with a recovery mode to restore the vehicle to its stock program in most situations if the following instructions are followed exactly.

It is very important to follow the recovery sequence described below precisely. It can be very costly to repair or replace your PCM if the MAX Micro Tuner could have recovered your vehicle and this sequence was not followed!

If an error occurs and the cable is still plugged into the connector under the dash, the MAX Micro Tuner will automatically attempt to recover the PCM. If the cable has been removed or dislodged, reconnect the cable to the connector. The MAX Micro Tuner will automatically go into recovery mode when next powered on.

To recover your vehicle it will be necessary to start in a known condition, therefore the MAX Micro Tuner will prompt you to:

TURN IGN OFF

PRESS "YES" WHEN
IGN TURNED OFF

MICRO TUNER WILL
NOW ATTEMPT TO

RECOVER PCM

TURN IGN ON

PRESS "YES" WHEN
IGN TURNED ON

After the 'YES' is pressed, the MAX Micro Tuner will attempt to determine if the PCM can be recovered. If it cannot recover the PCM, the MAX Micro Tuner will then prompt you to do the sequence above again. It will do this three times before prompting:

ERROR!
CALL SUPERCHIPS

If the MAX Micro Tuner can recover your PCM it will display the warning messages to turn off and not use power consuming devices, and to not remove cable until told. The MAX Micro Tuner will then display:

RECOVERING…
******

The bottom line of the displays shows the progress of recovery.

When recovery has been completed, the MAX Micro Tuner will display:

RECOVERY
SUCCESSFUL

RETURNED
TO STOCK

REMOVE CABLE
START VEHICLE

You may now disconnect the MAX Micro Tuner cable from the diagnostic port and start your vehicle.

No Start after Programming? Don't Panic!

In some vehicles equipped with the passive Vehicle Anti-Theft System or VATS, once the MAX Micro Tuner begins saving the factory stock program, the THEFT light begins blinking rapidly and may even blink in short and long pulses to alert the user to a problem. Since the Superchips Max Micro Tuner is communicating directly with the PCM, no other devices may interrupt. As a result, the VATS module flags this as an error or theft condition and goes into 'THEFT' mode. After the MAX Micro Tuner has completed the programming cycle, the PCM is still fully able to communicate and appears normal. However, the vehicle may be in a No Start Condition and the THEFT light will be blinking rapidly.

Corrective Procedure

This procedure should recover the vehicle and allow it to be started. Therefore, it is recommended that the MAX Micro Tuner programming cycle be completed prior to recovery. i.e. The user should allow the MAX Micro Tuner to upload the stock program and should select their choice of performance files and any user options, if available. Following instructions, they should complete the programming process.

Once the vehicle has been programmed with the selected performance program, complete the following steps to reset the VATS THEFT condition if necessary.

Disconnect the Superchips MAX Micro Tuner & cable from the vehicle computer interface connector.

If the vehicle will not start and the Theft Light is blinking rapidly

1. Remove the Ground (-) cable from the battery post for a period of **thirty minutes** to allow the vehicle DTC codes and Theft codes to clear.
2. Re-attach the Ground cable to the battery and start the vehicle as you normally would.

Error Notification

In the event recovery is successful and you are able to start your vehicle, you may now attempt to use the MAX Micro Tuner to program your vehicle again. Follow the on-screen prompts. If recovery is unsuccessful, or for any reason the MAX Micro Tuner fails to complete its programming cycle, an error message will be displayed on the unit. Please make note of the message displayed and contact Superchips Customer Service. If you need assistance please contact your local dealer or call Superchips Customer Service at 407-585-7000 M-F 8:00 AM till 5:00 PM. EST.

7. Editing the Custom Options Settings

Editing the Speed Limiter Option Setting

The Speed Limiter option allows the user to remove the vehicle Speed Limiter. The MAX Micro Tuner will beep and display the message:

REMOVE SPEED
LIMITER? Y OR N

If the "Yes" key is pressed, the MAX Micro Tuner will beep and display:

Z RATED TIRES ON
VEHICLE? Y OR N

Press 'YES' if the vehicle has high speed "Z-Rated" tires installed. If 'NO' is pressed, the stock speed limiter will NOT be removed! The MAX Micro Tuner will respond with either:

SPEED LIMIT
DISABLED

or

STOCK SPEED
LIMIT USED

Editing the Gear Ratio Option Setting

The Gear Ratio Option allows you to correct the Speedometer/Odometer when other than stock gears are installed. You may leave the gear ratio at STOCK or use one of the following optional ratios:

3.08, 3.42, 3.73, 4.10

Note: The Gear Ratio option is NOT supported for all vehicles.

The MAX Micro Tuner will beep and display the message:

DIFFERENT GEAR
RATIO? Y OR N

If you have a different gear ratio than what is stock for your vehicle, press "Yes". The MAX Micro Tuner will beep and display the message:

SELECT 3.08 GEAR
RATIO? Y OR N

If you are using a 3.08 gear ratio, press "Yes", otherwise press "No" to display the next gear ratio supported by the MAX Micro Tuner. The MAX Micro Tuner will cycle through the list of gear ratios, returning to the *Different Gear Ratio?* prompt after the last.

When the desired gear ratio is selected by pressing "Yes", or "No" is entered in response to the *Different Gear Ratio?* prompt, the MAX Micro Tuner then displays the prompt:

DIFFERENT TIRE
HEIGHT? Y OR N

Editing the Tire Height Option Setting

If you are using other than the stock tire size for your vehicle, press "Yes". The MAX Micro Tuner will beep and display the messages:

PRESS > TO ADJUST
TIRE HEIGHT

PRESS "YES" TO
SELECT

26.00

The tire height can be increased in .25" increments by using the ">" key to 38.00". Measure your tire height from the ground to the top of the tire. For example, if your measured tire height is 27.25 inches, you would press the ">" key five times.

The screen would change with each key press as shown below:

26.25
26.50
26.75
27.00
27.25

When you reach the desired tire height (in this example 27.25 inches) press "Yes" to select.

Attempting to increase tire height past 38.00" will cause the MAX Micro Tuner to return to the *Different Tire Height?* Prompt.

When the desired tire height is selected by pressing "Yes", or "No" is entered in response to the *Different Tire Height?* prompt, the MAX Micro Tuner then beeps and displays the prompt:

CHANGES STORED
FOR DOWNLOADING

The MAX Micro Tuner then beeps and returns to *Vehicle Programming* at Step 3 above.

Superchips 2575 MAX Micro Tuner
GM DTC Reader Instructions – Section B

Do not leave the MAX Micro Tuner connected and unattended for any length of time to prevent unnecessary battery drain.

PLEASE READ THIS ENTIRE INSTRUCTION SHEET BEFORE YOU PROCEED

DTC CODE READER OPERATION

The Superchips Model 2575 MAX Micro Tuner is equipped to function as a Diagnostic Trouble Code Reader for all GM OBDII equipped vehicles. Using the keypad on the MAX Micro Tuner, you can read and reset logged DTCs. Using the chart of DTCs that follows, you can interpret each of the DTCs.

IMPORTANT NOTE
This Superchips 2575 MAX Micro Tuner & DTC Reader is intended for use on GM vehicles only. Do NOT attempt to use the DTC reader on other than a GM vehicle as damage to the vehicle PCM or the MAX Micro Tuner may occur that is not covered by the Superchips, Inc. warranty.

1. Connecting the Superchips MAX Micro Tuner to Your Vehicle

With the Ignition Switch in the OFF Pos, locate the diagnostic connector under the dash near the steering wheel *or* under the glove box and connect the MAX Micro Tuner cable to the diagnostic connector. (See Figure 2) Turn the ignition switch to the RUN position (See page 3). Do not start the engine.

When connected, the MAX Micro Tuner will run a self-test. When the self-test is finished the MAX Micro Tuner will display the message:

A=Tune Vehicle
B=Diagnostics

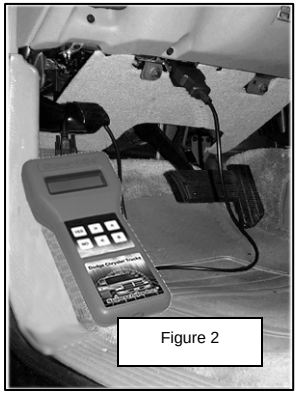


Figure 2

2. Selecting Tune Vehicle / Diagnostics

Press 'B' to select the DTC Reader Functions. The MAX Micro Tuner will beep and display the message:

Read the DTCs?
YES or NO

Press 'NO' to go directly to the DTC *Clearing DTCs* at Step 4 Below.

Press 'YES' to first read currently stored DTCs.

3. Reading the DTCs

The MAX Micro Tuner will beep and read the vehicle stored DTCs. If no DTCs have been logged by the vehicle the MAX Micro Tuner will display the following message:

No DTCs Exist
Press >...

Press the '>' key on the keypad. The MAX Micro Tuner will go back to *Select Tune Vehicle / Diagnostics* at Step 2 above.

If less than 16 DTCs have been logged by the vehicle, the MAX Micro Tuner will display the following message:

DTC # nn – Pxxxx
>= Next B= Done
nn is the DTC sequence.
Pxxxx is the DTC number.

Use the following DTC chart to find the DTC interpretation.

Press the '>' key on the keypad to cycle through the DTCs logged by the vehicle.
Press the 'B' key on the keypad when you are finished viewing the logged DTCs.

The MAX Micro Tuner will go to *Clearing DTCs* at Step 4 Below.

If more than 15 DTCs have been logged by the vehicle, the MAX Micro Tuner will display the following message:

Too Many DTCs
Press >...

Press the '>' key on the keypad, the MAX Micro Tuner will go to *Clearing DTCs*.

4. Clearing the DTCs

The MAX Micro Tuner will beep and display the message:

Clear the DTCs?
YES or NO

Press 'NO' to go back to *Select Tune Vehicle / Diagnostics* at Step 2 above.

Press the 'YES' key on the keypad to clear ALL logged DTCs.

The MAX Micro Tuner will beep and display the message:

DTCs Cleared

After clearing all the DTCs, the MAX Micro Tuner will go back to *Select Tune Vehicle / Diagnostics* at Step 2 above.

Error Notification

If you need assistance please contact your local dealer/call Superchips Customer Service at 407-585-7000 M-F 8:00 AM-5:00 PM. EST. Customer Service will not provide DTC interpretation assistance or support.

GM 2575 MAX Micro Tuner
Diagnostic Trouble Code Interpretations

Please Note

The DTC Reader functions provided as part of the Superchips Micro Tuners are for convenience purposes only. Industry standard interpretation tables are supplied Below. Superchips, Inc. makes no warranty of the correctness of the interpretations. Superchips Customer Service will not provide DTC interpretation assistance or support.

Notes Regarding DTC Interpretation

1. SAE Code Sections
   - P00xx Fuel & Air Metering, Auxiliary Emission Controls
   - P01xx Fuel & Air Metering
   - P02xx Fuel & Air Metering
   - P03xx Ignition & Firing Sys
   - P04xx Auxiliary Emission Controls
   - P05xx Vehicle Speed, Idle Control & Auxiliary Inputs
   - P06xx Computer & Auxiliary Outputs
   - P07xx Transmission
   - P08xx Transmission
   - P09xx Transmission

2. Manufacturer Code Sections
   - P10xx Fuel & Air Metering, Auxiliary Emission Controls
   - P11xx Fuel & Air Metering
   - P12xx Fuel & Air Metering
   - P13xx Ignition & Firing Sys
   - P14xx Auxiliary Emission Controls
   - P15xx Vehicle Speed, Idle Control & Auxiliary Inputs
   - P16xx Computer & Auxiliary Outputs
   - P17xx Transmission
   - P18xx Transmission
   - P19xx Transmission

3. All codes are not used in every vehicle model.

4. P Codes shown with a ✸ symbol may cause a dashboard indicator lamp to light.

5. Many logged codes are transitory in nature and are automatically reset.

6. Codes shown Below are for GM vehicles only. Do not attempt to use the MAX Micro Tuner DTC Reader on other than a GM vehicle as damage to the vehicle PCM or MAX Micro Tuner may occur that is not covered by the Superchips, Inc. warranty.

7. DTC P1000 is an indication that the vehicle needs to be driven for a period so that the vehicle can "learn" certain operating characteristics. This code cannot be cleared using the DTC Reader clear function.

Code	*Interpretation*
P0010	A Camshaft Pos Actuator Circuit (bank1)
P0011✸	**A Camshaft Pos Timing - Over-Advanced bank1)**
P0012✸	**A Camshaft Pos Timing - Over-Retarded (bank1)**
P0013✸	**B Camshaft Pos Actuator Circuit (bank1)**
P0014	B Camshaft Pos Timing - Over-Advanced (bank1)
P0015	B Camshaft Pos Timing - Over-Retarded (bank1)
P0020	A Camshaft Pos Actuator Circuit (bank2)
P0021	A Camshaft Pos Timing - Over-Advanced (bank2)
P0022	A Camshaft Pos Timing - Over-Retarded (bank2)
P0023	B Camshaft Pos Actuator Circuit (bank2)
P0024	B Camshaft Pos Timing - Over-Advanced (bank2)
P0025	B Camshaft Pos Timing - Over-Retarded (bank2)
P0030	HO2S Heater Ctrl Circuit (bank1, Sensor1)
P0031✸	**HO2S Heater Ctrl Circuit Lo (bank1, Sensor1)**
P0032✸	**HO2S Heater Ctrl Circuit Hi (bank1, Sensor1)**
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 Ctrl Circuit (bank1, Sensor2)
P0037✸	**HO2S Heater Ctrl Circuit Lo (bank1, Sensor2)**
P0038✸	**HO2S Heater Ctrl Circuit Hi (bank1, Sensor2)**
P0042	HO2S Heater Ctrl Circuit (bank1, Sensor 3)
P0043	HO2S Heater Ctrl Circuit Lo (bank1, Sensor 3)
P0044	HO2S Heater Ctrl Circuit Hi (bank1, Sensor 3)
P0050	HO2S Heater Ctrl Circuit (bank2, Sensor1)
P0051✸	**HO2S Heater Ctrl Circuit Lo (bank2, Sensor1)**
P0052✸	**HO2S Heater Ctrl Circuit Hi (bank2, Sensor1)**
P0056	HO2S Heater Ctrl Circuit (bank2, Sensor2)
P0057✸	**HO2S Heater Ctrl Circuit Lo (bank2, Sensor2)**
P0058✸	**HO2S Heater Ctrl Circuit Hi (bank2, Sensor2)**
P0062	HO2S Heater Ctrl Circuit (bank2, Sensor 3)
P0063	HO2S Heater Ctrl Circuit Lo (bank2, Sensor 3)
P0064	HO2S Heater Ctrl Circuit Hi (bank2, 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 (bank1)
P0076	Intake Valve Ctrl Circuit Lo (bank1)
P0077	Intake Valve Ctrl Circuit Hi (bank1)
P0078	Exhaust Valve Ctrl Circuit (bank1)
P0079	Exhaust Valve Ctrl Circuit Lo (bank1)
P0080	Exhaust Valve Ctrl Circuit Hi (bank1)
P0081	Intake Valve Ctrl Circuit (bank2)
P0082	Intake Valve Ctrl Circuit Lo (bank2)
P0083	Intake Valve Ctrl Circuit Hi (bank2)
P0084	Exhaust Valve Ctrl Circuit (bank2)
P0085	Exhaust Valve Ctrl Circuit Lo (bank2)
P0086	Exhaust Valve Ctrl Circuit Hi (bank2)
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	Mass/Volume Air Flow Circuit Error
P0101	Mass/Volume Air Flow Circuit Range/Perf
P0102✸	**Mass/Volume Air Flow Circuit Lo Input**
P0103✸	**Mass/Volume Air Flow Circuit Hi Input**
P0104	Mass/Volume Air Flow Circuit Intermittent
P0105✸	**Manifold Abs Pres/Baro Pres Circuit Error**
P0106✸	**Manifold Abs Pres/Baro Pres Circuit Range/Perf**
P0107✸	**Manifold Abs Pres/Baro Pres Circuit Lo Input**
P0108✸	**Manifold Abs Pres/Baro Pres Circuit Hi Input**
P0109✸	**Manifold Abs Pres/Baro Pres Circuit Intermittent**
P0110	Intake Air Temp Circuit Error
P0111	Intake Air Temp Circuit Range/Perf
P0112✸	**Intake Air Temp Circuit Lo Input**
P0113✸	**Intake Air Temp Circuit Hi Input**
P0114	Intake Air Temp Circuit Intermittent
P0115	Eng Coolant Temp Circuit Error
P0116✸	**Eng Coolant Temp Circuit Range/Perf**
P0117✸	**Eng Coolant Temp Circuit Lo Input**
P0118✸	**Eng Coolant Temp Hi Input**
P0119	Eng Coolant Temp Intermittent
P0120✸	**Throttle Pos Sensor/Switch A Circuit Error**
P0121✸	**Throttle Pos Sensor/Switch A Circuit Range/Perf**
P0122✸	**Throttle Pos Sensor/Switch A Circuit Lo Input**
P0123✸	**Throttle Pos Sensor/Switch A Circuit Hi Input**
P0124✸	**Throttle Pos Sensor/Switch A Circuit Intermittent**
P0125✸	**Insuff Coolant Temp for Closed Loop Fuel Ctrl**
P0126	Insuff Coolant Temp Stable Operation
P0127	Intake Air Temp Too Hi
P0128✸	**Coolant Temp Below Thermostat**
P0130	Oxy Sensor Circuit (bank1, Sensor1)
P0131✸	**Oxy Sensor Circuit Lo Voltage (bank1, Sensor1)**
P0132✸	**Oxy Sensor Circuit Hi Voltage (bank1, Sensor1)**
P0133✸	**Oxy Sensor Circuit Slow Response (bank1, Sens1)**
P0134✸	**Oxy Sens Circ No Activity Detected (bank1 Sens1)**
P0135✸	**Oxy Sensor Heater Circuit (bank1, Sensor1)**
P0136✸	**Oxy Sensor Circuit (bank1, Sensor2)**
P0137✸	**Oxy Sensor Circuit Lo Voltage (bank1, Sensor2)**
P0138✸	**Oxy Sensor Circuit Hi Voltage (bank1, Sensor2)**
P0139	Oxy Sensor Circuit Slow Response (bank1, Sensor2)
P0140✸	**Oxy Sens Circ No Activity Detected (bank1 Sens2)**
P0141	Oxy Sensor Heater Circuit (bank1, Sensor2)
P0142	Oxy Sensor Circuit (bank1, Sensor 3)
P0143	Oxy Sensor Circuit Lo Voltage (bank1, Sensor 3)
P0144	Oxy Sensor Circuit Hi Voltage (bank1, Sensor 3)
P0145	Oxy Sensor Circuit Slow Response (bank1, Sensor 3)
P0146	Oxy Sensor Circuit No Activity Detected (bank1 Sens3)
P0147	Oxy Sensor Heater Circuit (bank1, Sensor 3)
P0148	Fuel Delivery Error
P0149	Fuel Timing Error
P0150	Oxy Sensor Circuit (bank2, Sensor1)
P0151	Oxy Sensor Circuit Lo Voltage (bank2, Sensor1)
P0152	Oxy Sensor Circuit Hi Voltage (bank2, Sensor1)
P0153	Oxy Sensor Circuit Slow Response (bank2, Sensor1)
P0154	Oxy Sensor Circuit No Activity Detected (bank2 Sens1)
P0155	Heated Oxy Sensor Heater Circuit (bank2, Sensor1)
P0156	Oxy Sensor Circuit (bank2, Sensor2)
P0157	Oxy Sensor Circuit Lo Voltage (bank2, Sensor2)
P0158	Oxy Sensor Circuit Hi Voltage (bank2, Sensor2)
P0159	Oxy Sensor Circuit Slow Response (bank2, Sensor2)
P0160	Oxy Sensor Circuit No Activity Detected (bank2 Sens2)
P0161	Heated Oxy Sensor Heater Circuit (bank2, Sensor2)
P0162	Oxy Sensor Circuit (bank2, Sensor 3)
P0163	Oxy Sensor Circuit Lo Voltage (bank2, Sensor 3)
P0164	Oxy Sensor Circuit Hi Voltage (bank2, Sensor 3)
P0165	Oxy Sensor Circuit Slow Response (bank2, Sensor 3)
P0166	Oxy Sensor Circuit No Activity Detected (bank2 Sens3)
P0167	Heated Oxy Sensor Heater Circuit (bank2, Sensor 3)
P0168	Eng Fuel Temp Hi
P0169	Incorrect Fuel Composition
P0170	Fuel Trim Error (bank1)
P0171	Sys too Lean (bank1)
P0172	Sys too Rich (bank1)
P0173	Fuel Trim Error (bank2)
P0174	Sys too Lean (bank2)
P0175	Sys too Rich (bank2)
P0176	Fuel Composition Sensor Circuit Error
P0177	Fuel Composition Sensor Circuit Range/Perf
P0178	Fuel Composition Sensor Circuit Lo Input
P0179	Fuel Composition Sensor Circuit Hi Input
P0180	Fuel Temp Sensor A Circuit Error
P0181	Fuel Temp Sensor A Circuit Range/Perf
P0182	Fuel Temp Sensor A Circuit Lo Input
P0183	Fuel Temp Sensor A Circuit Hi Input
P0184	Fuel Temp Sensor A Circuit Intermittent
P0185	Fuel Temp Sensor B Circuit Error
P0186	Fuel Temp Sensor B Circuit Range/Perf
P0187	Fuel Temp Sensor B Circuit Lo Input
P0188	Fuel Temp Sensor B Circuit Hi Input
P0189	Fuel Temp Sensor B Circuit Intermittent
P0190	Fuel Rail Pres Sensor Circuit Error
P0191	Fuel Rail Pres Sensor Circuit Range/Perf
P0192	Fuel Rail Pres Sensor Circuit Lo Input
P0193	Fuel Rail Pres Sensor Circuit Hi Input
P0194	Fuel Rail Pres Sensor Circuit Intermittent
P0195	Eng Oil Temp Sensor Error
P0196	Eng Oil Temp Sensor Range/Perf
P0197	Eng Oil Temp Sensor Circuit Lo Input
P0198	Eng Oil Temp Sensor Circuit Hi Input
P0199	Eng Oil Temp Sensor Intermittent
P0200	Injector Circuit Error
P0201	Injector Circuit Error - Cylinder 1
P0202	Injector Circuit Error - Cylinder 2
P0203	Injector Circuit Error - Cylinder 3

Code	Interpretation
P0204	Injector Circuit Error - Cylinder 4
P0205	Injector Circuit Error - Cylinder 5
P0206	Injector Circuit Error - Cylinder 6
P0207	Injector Circuit Error - Cylinder 7
P0208	Injector Circuit Error - Cylinder 8
P0209	Injector Circuit Error - Cylinder 9
P0210	Injector Circuit Error - Cylinder 10
P0211	Injector Circuit Error - Cylinder 11
P0212	Injector Circuit Error - Cylinder 12
P0213	Cold Start Injector 1 Error
P0214	Cold Start Injector 2 Error
P0215	Eng Shutoff Solenoid Error
P0216	Injection Timing Ctrl Circuit Error
P0217	Eng Over temp Condition
P0218	Tran Over temp Condition
P0219	Throttle Sw B Circ Error/Eng Over speed Condition
P0220	Throttle Pos Sensor/Switch B Circuit Error
P0221	Throttle Pos Sensor/Switch B Circuit Range/Perf
P0222	Throttle Pos Sensor/Switch B Circuit Lo Input
P0223	Throttle Pos Sensor/Switch B Circuit Hi Input
P0224	Throttle Pos Sensor/Switch B Circuit Intermittent
P0225	Throttle Pos Sensor/Switch C Circuit Error
P0226	Throttle Pos Sensor/Switch C Circuit Range/Perf
P0227	Throttle Pos Sensor/Switch C Circuit Lo Input
P0228	Throttle Pos Sensor/Switch C Circuit Hi Input
P0229	Throttle Pos Sensor/Switch C Circuit Intermittent
P0230	Fuel Pump Relay Dvr Fail
P0231	Fuel Pump Relay Dvr Circuit Fail On
P0232	Fuel Pump Relay Dvr Circuit Fail Off
P0233	Fuel Pump Relay Dvr Intermittent
P0234	Eng Over boost Condition
P0235	Turbo Boost Sensor A Circuit Error
P0236	Turbo Boost Sensor A Circuit Perf
P0237	Turbo Boost Sensor A Circuit Lo Input
P0238	Turbo Boost Sensor A Circuit Hi Input
P0239	Turbo Boost Sensor B Circuit Error
P0240	Turbo Boost Sensor B Circuit Perf
P0241	Turbo Boost Sensor B Circuit Lo Input
P0242	Turbo Boost Sensor B Circuit Hi Input
P0243	Turbo Wastegate Solenoid A Error
P0244	Turbo Wastegate Solenoid A Range/Perf
P0245	Turbo Wastegate Solenoid A Lo
P0246	Turbo Wastegate Solenoid A Hi
P0247	Turbo Wastegate Solenoid A Error
P0248	Turbo Wastegate Solenoid A Range/Perf
P0249	Turbo Wastegate Solenoid A Lo
P0250	Turbo Wastegate Solenoid A Hi
P0251	Injection Pump Fuel Metering Ctrl A Error
P0252	Injection Pump Fuel Metering Ctrl A Range/Perf
P0253	Injection Pump Fuel Metering Ctrl A Lo
P0254	Injection Pump Fuel Metering Ctrl A Hi
P0255	Injection Pump Fuel Metering Ctrl A Intermittent
P0256	Injection Pump Fuel Metering Ctrl A Error
P0257	Injection Pump Fuel Metering Ctrl A Range/Perf
P0258	Injection Pump Fuel Metering Ctrl A Lo
P0259	Injection Pump Fuel Metering Ctrl A Hi
P0260	Injection Pump Fuel Metering Ctrl A Intermittent
P0261✱	**Injector Circuit Lo - Cylinder 1**
P0262	Injector Circuit Hi - Cylinder 1
P0263	Cylinder 1 Contribution/Balance Fault
P0264✱	**Injector Circuit Lo - Cylinder 2**
P0265	Injector Circuit Hi - Cylinder 2
P0266	**Cylinder 2 Contribution/Balance Fault**
P0267✱	**Injector Circuit Lo - Cylinder 3**
P0268	Injector Circuit Hi - Cylinder 3
P0269	Cylinder 3 Contribution/Balance Fault
P0270✱	**Injector Circuit Lo - Cylinder 4**
P0271	Injector Circuit Hi - Cylinder 4
P0272	Cylinder 4 Contribution/Balance Fault
P0273✱	**Injector Circuit Lo - Cylinder 5**
P0274	Injector Circuit Hi - Cylinder 5
P0275	Cylinder 5 Contribution/Balance Fault
P0276✱	**Injector Circuit Lo - Cylinder 6**
P0277	Injector Circuit Hi - Cylinder 6
P0278	Cylinder 6 Contribution/Balance Fault
P0279✱	**Injector Circuit Lo - Cylinder 7**
P0280	Injector Circuit Hi - Cylinder 7
P0281	Cylinder 7 Contribution/Balance Fault
P0282✱	**Injector Circuit Lo - Cylinder 8**
P0283	Injector Circuit Hi - Cylinder 8
P0284	Cylinder 8 Contribution/Balance Fault
P0285✱	**Injector Circuit Lo - Cylinder 9**
P0286	Injector Circuit Hi - Cylinder 9
P0287	Cylinder 9 Contribution/Balance Fault
P0288✱	**Injector Circuit Lo - Cylinder 10**
P0289	Injector Circuit Hi - Cylinder 10
P0290	Cylinder 10 Contribution/Balance Fault
P0291✱	**Injector Circuit Lo - Cylinder 11**
P0292	Injector Circuit Hi - Cylinder 11
P0293	Cylinder 11 Contribution/Balance Fault
P0294✱	**Injector Circuit Lo - Cylinder 12**
P0295	Injector Circuit Hi - Cylinder 12
P0296	Cylinder 12 Contribution/Balance Fault
P0298✱	**Eng Oil Over temp Condition**
P0300	Random/Multiple Cylinder Misfire Detected
P0301✱	**Fault Cylinder A-Misfire Detected (CYLINDER 1)**
P0302✱	**Fault Cylinder B-Misfire Detected (CYLINDER 2)**
P0303✱	**Fault Cylinder D-Misfire Detected (CYLINDER 3)**
P0304✱	**Fault Cylinder E-Misfire Detected (CYLINDER 4)**
P0305✱	**Fault Cylinder F-Misfire Detected (CYLINDER 5)**
P0306✱	**Fault Cylinder G-Misfire Detected (CYLINDER 6)**
P0307✱	**Fault Cylinder C-Misfire Detected (CYLINDER 7)**
P0308✱	**Fault Cylinder H-Misfire Detected (CYLINDER 8)**
P0309✱	**Fault Cylinder I-Misfire Detected (CYLINDER 9)**
P0310✱	**Fault Cylinder J-Misfire Detected (CYLINDER 10)**
P0311✱	**Fault Cylinder K-Misfire Detected (CYLINDER 11)**
P0312✱	**Fault Cylinder L-Misfire Detected (CYLINDER 12)**
P0313	Misfire Detected with Lo Fuel
P0314	1 Cylinder Misfire (Cylinder not specific)
P0320✱	**Ign/Distributor Eng Speed Input Circuit Error**
P0321✱	**Ign/Distributor Eng Speed Input Circ Range/Perf**
P0322✱	**Ign/Distributor Eng Speed Input Circuit No Signal**
P0323	Ign/Distributor Eng Speed Input Circuit Intermittent
P0324	Knock Ctrl Sys Error
P0325	Knock Sensor1 Circuit Error (bank1/1 Sensor)
P0326✱	**Knock Sensor1 Circuit Range/Perf (bank1/1 Sensor)**
P0327✱	**Knock Sensor1 Circuit Lo Input (bank1/1 Sensor)**
P0328✱	**Knock Sensor1 Circuit Hi Input (bank1/1 Sensor)**
P0329	Knock Sensor1 Circuit Intermittent (bank1/1 Sensor)
P0330	Knock Sensor2 Circuit Error (bank2)
P0331✱	**Knock Sensor2 Circuit Range/Perf (bank2)**
P0332✱	**Knock Sensor2 Circuit Lo Input (bank2)**
P0333✱	**Knock Sensor2 Circuit Hi Input (bank2)**
P0334	Knock Sensor2 Circuit Intermittent (bank2)
P0335	Crankshaft Pos Sensor A Circuit Error
P0336✱	**Crankshaft Pos Sensor A Circuit Range/Perf**
P0337	Crankshaft Pos Sensor A Circuit Lo Input
P0338	Crankshaft Pos Sensor A Circuit Hi Input
P0339	Crankshaft Pos Sensor A Circuit Intermittent
P0340✱	**Camshaft Pos Sensor Circuit Error (bank1/1 Sensor)**
P0341✱	**Camshaft Pos Sensor Circuit Perf (bank1/1 Sensor)**
P0342	Camshaft Pos Sensor Circuit Lo Input (bank1/1 Sensor)
P0343	Camshaft Pos Sensor Circuit Hi Input (bank1/1 Sensor)
P0344✱	**Camshaft Pos Sensor Circuit Intermittent (bank1/1 Sens)**
P0345	Camshaft Pos Sensor Circuit Error (bank2)
P0346	Camshaft Pos Sensor Circuit Perf (bank2)
P0347	Camshaft Pos Sensor Circuit Lo Input (bank2)
P0348	Camshaft Pos Sensor Circuit Hi Input (bank2)
P0349	Camshaft Pos Sensor Circuit Intermittent (bank2)
P0350	Ignition Coil Primary/Sec Circuit Error
P0351✱	**Ignition Coil A Primary/Sec Circuit Error**
P0352✱	**Ignition Coil B Primary/Sec Circuit Error**
P0353✱	**Ignition Coil C Primary/Sec Circuit Error**
P0354✱	**Ignition Coil D Primary/Sec Circuit Error**
P0355✱	**Ignition Coil E Primary/Sec Circuit Error**
P0356✱	**Ignition Coil F Primary/Sec Circuit Error**
P0357✱	**Ignition Coil G Primary/Sec Circuit Error**
P0358✱	**Ignition Coil H Primary/Sec Circuit Error**
P0359✱	**Ignition Coil I Primary/Sec Circuit Error**
P0360✱	**Ignition Coil J Primary/Sec Circuit (Glow Plug) Error**
P0361	Ignition Coil K Pri/Sec Circuit (Glow Plug Indicator) Error
P0362	Ignition Coil L Primary/Sec Circuit Error
P0365	Crankshaft Pos Sensor B Circuit Error (bank1)
P0366	Crankshaft Pos Sensor B Circuit Range/Perf (bank1)
P0367	Crankshaft Pos Sensor B Circuit Lo Input (bank1)
P0368	Crankshaft Pos Sensor B Circuit Hi Input (bank1)
P0369	Crankshaft Pos Sensor B Circuit Intermittent (bank1)
P0370	Timing Ref Hi Res Signal A Error
P0371	Timing Ref Hi Res Signal A Too Many Pulses
P0372	Timing Ref Hi Res Signal A Too Few Pulses
P0373	Timing Ref Hi Res Signal A Intermittent/Erratic Pulses
P0374	Timing Ref Hi Res Signal A No Pulses
P0375	Timing Ref Hi Res Signal B Error
P0376	Timing Ref Hi Res Signal B Too Many Pulses
P0377	Timing Ref Hi Res Signal B Too Few Pulses
P0378	Timing Ref Hi Res Signal B Intermittent/Erratic Pulses

Code	Interpretation
P0379	Timing Ref Hi Res Signal B No Pulses
P0380✱	**Glow Plug Circuit Error Circuit A**
P0381✱	**Glow Plug Indicator Circuit Error**
P0382	Glow Plug Circuit Error Circuit B
P0385✱	**Crankshaft Pos Sensor B Circuit Error**
P0386	Crankshaft Pos Sensor B Circuit Range/Perf
P0389	Crankshaft Pos Sensor B Circuit Intermittent
P0387	Crankshaft Pos Sensor B Circuit Lo Input
P0388	Crankshaft Pos Sensor B Circuit Hi Input
P0390	Crankshaft Pos Sensor B Circuit Error (bank2)
P0391	Crankshaft Pos Sensor B Circuit Range/Perf (bank2)
P0392	Crankshaft Pos Sensor B Circuit Lo Input (bank2)
P0393	Crankshaft Pos Sensor B Circuit Hi Input (bank2)
P0394	Crankshaft Pos Sensor B Circuit Intermittent (bank2)
P0400✱	**Exhaust Gas Recirculation Flow Error**
P0401✱	**Exhaust Gas Recirculation Flow Insuff Detected**
P0402✱	**Exhaust Gas Recirculation Flow Excessive Detected**
P0403✱	**Exhaust Gas Recirculation Circuit Error**
P0404	Exhaust Gas Recirculation Circuit Range/Perf
P0405	**Exhaust Gas Recirculation Sensor A Circuit Lo**
P0406	**Exhaust Gas Recirculation Sensor A Circuit Hi**
P0407	Exhaust Gas Recirculation Sensor B Circuit Lo
P0408	Exhaust Gas Recirculation Sensor B Circuit Hi
P0409	Exhaust Gas Recirculation Sensor A Circuit
P0410	Sec Air Injection Sys Error
P0411✱	**Sec Air Injection Sys Incorrect Flow Detected**
P0412✱	**Sec Air Injection Sys Switching Valve A Circ Error**
P0413✱	**Sec Air Injection Sys Switching Valve A Circ Open**
P0414✱	**Sec Air Injection Sys Switching Valve A Circ Shorted**
P0415	Sec Air Injection Sys Switching Valve B Circuit Error
P0416✱	**Sec Air Injection Sys Switching Valve B Circ Open**
P0417✱	**Sec Air Injection Sys Switching Valve B Circ Shorted**
P0418	Sec Air Injection Sys Relay "A" Circuit Error
P0419	Sec Air Injection Sys Relay "B" Circuit Error
P0420✱	**Catalyst Sys Efficiency Below Threshold (bank1)**
P0421✱	**Warm Up Catalyst Efficiency Below Thresh (bank1)**
P0422	Main Catalyst Efficiency Below Threshold (bank1)
P0423	Heated Catalyst Efficiency Below Threshold (bank1)
P0424	Heated Catalyst Temp Below Threshold (bank1)
P0425	Catalyst Temp Sensor (bank1)
P0426	Catalyst Temp Sensor Range/Perf (bank1)
P0427	Catalyst Temp Sensor Lo Input (bank1)
P0428	Catalyst Temp Sensor Hi Input (bank1)
P0429	Catalyst Heater Ctrl Circuit (bank1)
P0430✱	**Catalyst Sys Efficiency Below Threshold (bank2)**
P0431✱	**Warm Up Catalyst Efficiency Below Thresh (bank2)**
P0432	Main Catalyst Efficiency Below Threshold (bank2)
P0433	Heated Catalyst Efficiency Below Threshold (bank2)
P0434	Heated Catalyst Temp Below Threshold (bank2)
P0435	Catalyst Temp Sensor (bank2)
P0436✱	**Catalyst Temp Sensor Range/Perf (bank2)**
P0437✱	**Catalyst Temp Sensor Lo Input (bank2)**
P0438✱	**Catalyst Temp Sensor Hi Input (bank2)**
P0439	Catalyst Heater Ctrl Circuit (bank2)
P0440✱	**Evap Emission Ctrl Sys Error**
P0441✱	**Evap Emission Ctrl Sys Incorrect Purge Flow**
P0442✱	**Evap Emission Ctrl Sys Leak Detected (small leak)**
P0443✱	**Evap Emission Ctrl Sys Purge Ctrl Valve Circ Error**
P0444✱	**Evap Emission Ctrl Sys Purge Ctrl Valve Circ Open**
P0445✱	**Evap Emission Ctrl Sys Purge Ctrl Valve Circ Shorted**
P0446✱	**Evap Emission Ctrl Sys Vent Ctrl Circuit Error**
P0447	Evap Emission Ctrl Sys Vent Ctrl Circuit Open
P0448	Evap Emission Ctrl Sys Vent Ctrl Circuit Shorted
P0449	Evap Emission Ctrl Sys Vent Valve/Solenoid Circ Error
P0450	Evap Emission Ctrl Sys Pres Sensor Error
P0451✱	**Evap Emission Ctrl Sys Pres Sensor Range/Perf**
P0452✱	**Evap Emission Ctrl Sys Pres Sensor Lo Input**
P0453✱	**Evap Emission Ctrl Sys Pres Sensor Hi Input**
P0454	Evap Emission Ctrl Sys Pres Sensor Intermittent
P0455✱	**Evap Emission Ctrl Sys Gross Leak Detected**
P0456✱	**Evap Emission Ctrl Sys Very Small Leak Detected)**
P0457	Evap Emission Ctrl Sys Leak (fuel cap loose/off)
P0460✱	**Fuel Tank Level Indicator Circuit Error**
P0461✱	**Fuel Level Sensor Circuit Range/Perf**
P0462	Fuel Level Sensor Circuit Lo Input
P0463	Fuel Level Sensor Circuit Hi Input
P0464	Fuel Level Sensor Circuit Intermittent
P0465	EVAP Purge Flow Sensor Circuit
P0466	EVAP Purge Flow Sensor Circuit Range/Perf
P0467	EVAP Purge Flow Sensor Circuit Lo Input
P0468	EVAP Purge Flow Sensor Circuit Hi Input
P0469	EVAP Purge Flow Sensor Circuit Intermittent
P0470	Exhaust Back Pres Sensor Circuit Error
P0471✱	**Exhaust Back Pres Sensor Circuit Perf**
P0472✱	**Exhaust Back Pres Sensor Circuit Lo Input**
P0473✱	**Exhaust Back Pres Sensor Circuit Hi Input**
P0474	Exhaust Back Pres Sensor Intermittent
P0475✱	**Exhaust Pres Ctrl Valve Error**
P0476	Exhaust Pres Ctrl Valve Range/Perf
P0477	Exhaust Pres Ctrl Valve Lo Output
P0478✱	**Exhaust Pres Ctrl Valve Hi Input**
P0479	Exhaust Pres Ctrl Valve Intermittent
P0480	Cooling Fan 1 Ctrl Circuit Error
P0481	Cooling Fan 2 Ctrl Circuit Error
P0482	Cooling Fan 3 Ctrl Circuit Error
P0483	Cooling Fan Rationality Check Error
P0484	Cooling Fan Circuit Over Current
P0485	Cooling Fan Power/Ground Circuit Error
P0486	EGR Sensor B Circuit
P0487	EGR Throttle Pos Ctrl Circuit
P0488	EGR Throttle Pos Ctrl Range/Perf
P0491	Sec Air Injection Sys (bank1)
P0492	Sec Air Injection Sys (bank2)
P0500✱	**Vehicle Speed Sensor (VSS) Error**
P0501✱	**Vehicle Speed Sensor Range/Perf**
P0502	Vehicle Speed Sensor Lo Input
P0503✱	**Vehicle Speed Sensor Noisy**
P0505✱	**Idle Ctrl Sys Error**
P0506✱	**Idle Ctrl Sys RPM Lower Than Expected**
P0507✱	**Idle Ctrl Sys RPM Higher Than Expected**
P0508	Idle Ctrl Sys Circuit Lo
P0509	Idle Ctrl Sys Circuit Hi
P0510	Closed Throttle Pos Switch Error
P0512	Starter Request Circuit
P0513	Incorrect Immobilizer Key
P0515	Battery Temp Sensor Circuit
P0516	Battery Temp Sensor Circuit Lo
P0517	Battery Temp Sensor Circuit Hi
P0520	Eng Oil Pres Sensor/Switch Circuit Error
P0521	Eng Oil Pres Sensor/Switch Circuit Range/Perf
P0522	Eng Oil Pres Sensor/Switch Circuit Lo Voltage
P0523	Eng Oil Pres Sensor/Switch Circuit Hi Voltage
P0524	Eng Oil Pres Too Lo
P0530	A/C Refrigerant Pres Sensor Circuit Error
P0531	A/C Refrigerant Pres Sensor Circuit Range/Perf
P0532	A/C Refrigerant Pres Sensor Circuit Lo Input
P0533	A/C Refrigerant Pres Sensor Circuit Hi Input
P0534	Air Conditioner Refrigerant Charge Loss
P0540	Manifold Intake Air Heater Circuit
P0541	Manifold Intake Air Heater Circuit Lo
P0542	Manifold Intake Air Heater Circuit Hi
P0544	EGT Sensor Circuit bank1
P0545	EGT Sensor Circuit Lo bank1
P0546	EGT Sensor Circuit Hi bank1
P0547	EGT Sensor Circuit bank2
P0548	EGT Sensor Circuit Lo bank2
P0549	EGT Sensor Circuit Hi bank2
P0550	Power Steering Pres Sensor Circuit Error
P0551✱	**Power Steering Pres Sensor Circuit Range/Perf**
P0552	Power Steering Pres Sensor Circuit Lo Input
P0553	Power Steering Pres Sensor Circuit Hi Input
P0554	Power Steering Pres Sensor Circuit Intermittent
P0560✱	**Sys Voltage Error**
P0561	Sys Voltage Unstable
P0562✱	**Sys Voltage Lo**
P0563	Sys Voltage Hi
P0564	Cruise Ctrl Multi-Function Input Signal
P0565	Cruise Ctrl ON Signal Error
P0566	Cruise Ctrl OFF Signal Error
P0567	Cruise Ctrl RESUME Signal Error
P0568	Cruise Ctrl SET Signal Error
P0569	Cruise Ctrl COAST Signal Error
P0570	Cruise Ctrl ACCEL Signal Error
P0571✱	**Cruise Ctrl/Brake Switch A Circuit Fail**
P0572	Cruise Ctrl/Brake Switch A Circuit Lo
P0573	Cruise Ctrl/Brake Switch A Circuit Hi
P0574	Cruise Ctrl Sys Vehicle Speed Too Hi
P0575	Cruise Ctrl Input Circuit
P0576	Cruise Ctrl Input Circuit Lo
P0577	Cruise Ctrl Input Circuit Hi

Code	Interpretation
P0600	Serial Comm Link Error
P0601	Internal Ctrl Mod Memory Check Sum Error
P0602	Ctrl Mod Programming Error
P0603✱	**Internal Ctrl Mod KAM Error**
P0604	Internal Ctrl Mod RAM Error
P0605	Internal Ctrl Mod ROM Error
P0606	PCM Processor Fault
P0607	Powertrain Ctrl Mod Perf
P0608	Powertrain Ctrl Mod VSS Output “A” Error
P0609	Powertrain Ctrl Mod VSS Output “B” Error
P0610	Powertrain Ctrl Mod Vehicle Options Error
P0611	Fuel Injector Ctrl Mod Perf
P0612	Fuel Injector Ctrl Mod Ctrl Circuit
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Lo
P0617	Starter Relay Circuit Hi
P0618	Alternative Fuel Ctrl Mod KAM Error
P0619	Alternative Fuel Ctrl Mod RAM/ROM Error
P0620	Generator Ctrl Circuit Error
P0621	Generator Lamp “L” Ctrl Circuit Error
P0622	Generator Field “F” Ctrl Circuit Error
P0623	Generator Lamp Ctrl Circuit Error
P0624	Fuel Cap Lamp Ctrl Circuit Error
P0630	VIN Not Programmed/Mismatch - ECM/PCM
P0631	VIN Not Programmed/Mismatch - TCM
P0635	Power Steering Ctrl Circuit
P0636	Power Steering Ctrl Circuit Lo
P0637	Power Steering Ctrl Circuit Hi
P0638	Throttle Actuator Ctrl Range/Perf bank1
P0639	Throttle Actuator Ctrl Range/Perf bank2
P0640	Manifold Intake Air Heater Ctrl Circuit
P0645	A/C Clutch Relay Ctrl Circuit
P0646	A/C Clutch Relay Ctrl Circuit Lo
P0647	A/C Clutch Relay Ctrl Circuit Hi
P0648	Immobilizer Lamp Ctrl Circuit
P0649	Cruise Ctrl Lamp Ctrl Circuit
P0650	Error Indicator Lamp (MIL) Ctrl Circuit Error
P0654	Eng RPM Output Circuit Error
P0655	Eng Hot Lamp Output Ctrl Circuit Malfunction
P0656	Fuel Level Output Circuit Error
P0660✱	**Intake Manif Tuning Valve Ctrl Circuit bank1**
P0661✱	**Intake Manif Tuning Valve Ctrl Circ Lo bank1**
P0662✱	**Intake Manif Tuning Valve Ctrl Circ Hi bank1**
P0663	Intake Manif Tuning Valve Ctrl Circuit bank2
P0664	Intake Manif Tuning Valve Ctrl Circuit Lo bank2
P0665	Intake Manif Tuning Valve Ctrl Circuit Hi bank2
P0666	Cruise 'On” Signal Error
P0667	Cruise 'Resume' Signal Error
P0668	Cruise “Set' Signal Error
P0669	Cruise “Coast' Signal Error
P0670	Glow plug Ctrl Circuit Error
P0671✱	**Glow plug #1 Circuit failure**
P0672✱	**Glow plug #2 Circuit failure**
P0673✱	**Glow plug #3 Circuit failure**
P0674✱	**Glow plug #4 Circuit failure**
P0675✱	**Glow plug #5 Circuit failure**
P0676✱	**Glow plug #6 Circuit failure**
P0677✱	**Glow plug #7 Circuit failure**
P0678✱	**Glow plug #8 Circuit failure**
P0679	Reserve for future Glow plug #9
P0680	Reserve for future Glow plug #10
P0681	Reserve for future Glow plug #11
P0682	Reserve for future Glow plug #12
P0683✱	**Glow Plug Ctrl Mod to PCM Comm Circuit**
P0684✱	**Glow Plug Ctrl Mod to PCM Comm Circ Range/Perf**
P0700	Tran Ctrl Sys Error
P0701	Tran Ctrl Sys Range/Perf
P0702✱	**Tran Ctrl Sys Electrical**
P0703	Brake Switch B Circuit Error
P0704✱	**Clutch Pedal Pos Switch Input Circuit Error**
P0705✱	**Tran Range Sensor Circuit Error**
P0706✱	**Tran Range Sensor Circuit Range/Perf**
P0707✱	**Tran Range Sensor Circuit Lo Input**
P0708✱	**Tran Range Sensor Circuit Hi Input**
P0709	Tran Range Sensor Circuit Intermittent
P0710✱	**Tran Fluid Temp Sensor Circuit Error**
P0711✱	**Tran Fluid Temp Sensor Circuit Range/Perf**
P0712✱	**Tran Fluid Temp Sensor CKT Lo Input**
P0713✱	**Tran Fluid Temp Sensor CKT Hi Input**
P0714	Tran Fluid Temp Sensor Circuit Intermittent
P0715✱	**Input/Turbine Speed Sensor Circuit Error**
P0716	Input/Turbine Speed Sensor Circuit Range/Perf
P0717	Input/Turbine Speed Sensor Circuit No Signal
P0718✱	**Input/Turbine Speed Sensor Circuit Intermittent**
P0719	Torque Converter/Brake Switch B Circuit Lo
P0720✱	**Output Speed Sensor Circuit Error**
P0721✱	**Output Speed Sensor Range/Perf**
P0722	Output Speed Sensor No Signal
P0723	Output Speed Sensor Intermittent
P0724	Torque Converter/Brake Switch B Circuit Hi
P0725	Eng Speed input Circuit Error
P0726	Eng Speed Input Circuit Range/Perf
P0727	Eng Speed Input Circuit No Signal
P0728	Eng Speed Input Circuit Intermittent
P0730	Incorrect Gear Ratio
P0731✱	**Gear One Ratio Error**
P0732✱	**Gear Two Ratio Error**
P0733✱	**Gear Three Ratio Error**
P0734✱	**Gear Four Ratio Error**
P0735✱	**Gear Five Ratio Error**
P0736	Reverse Gear Ratio Error
P0737	TCM Eng Speed Output Circuit
P0738	TCM Eng Speed Output Circuit Lo
P0739	TCM Eng Speed Output Circuit Hi
P0740✱	**Torque Converter Clutch Circuit Malfunction**
P0741✱	**Torque Converter Clutch Circuit Perf/Stuck Off**
P0742✱	**Torque Converter Clutch Circuit Stuck On**
P0743✱	**Torque Converter Clutch Sys Electrical Failure**
P0744	Torque Converter Clutch Circuit Intermittent
P0745✱	**Pres Ctrl Solenoid Error**
P0746✱	**Pres Ctrl Solenoid Perf/Stuck Off**
P0747	Pres Ctrl Solenoid Stuck On
P0748	Pres Ctrl Solenoid Electrical
P0749	Pres Ctrl Solenoid Intermittent
P0750✱	**Shift Solenoid A Error**
P0751✱	**Shift Solenoid A Perf/Stuck Off**
P0752✱	**Shift Solenoid A Stuck On**
P0753✱	**Shift Solenoid A Electrical**
P0754	Shift Solenoid A Intermittent
P0755✱	**Shift Solenoid B Error**
P0756✱	**Shift Solenoid B Perf/Stuck Off**
P0757✱	**Shift Solenoid B Stuck On**
P0758✱	**Shift Solenoid B Electrical**
P0759	Shift Solenoid B Intermittent
P0760✱	**Shift Solenoid C Error**
P0761✱	**Shift Solenoid C Perf/Stuck Off**
P0762✱	**Shift Solenoid C Stuck On**
P0763✱	**Shift Solenoid C Electrical**
P0764	Shift Solenoid C Intermittent
P0765✱	**Shift Solenoid D Error**
P0766✱	**Shift Solenoid D Perf/Stuck Off**
P0767✱	**Shift Solenoid D Stuck On**
P0768✱	**Shift Solenoid D Electrical**
P0769	Shift Solenoid D Intermittent
P0770✱	**Shift Solenoid E Error**
P0771✱	**Shift Solenoid E Perf/Stuck Off**
P0772✱	**Shift Solenoid E Stuck On**
P0773✱	**Shift Solenoid E Electrical**
P0774	Shift Solenoid E Intermittent
P0775✱	**Pres Ctrl Solenoid B**
P0776	Pres Ctrl Solenoid B Perf/Stuck Off
P0777	Pres Ctrl Solenoid B Stuck On
P0778	Pres Ctrl Solenoid B Electrical
P0779	Pres Ctrl Solenoid B Intermittent
P0780	Shift Error
P0781✱	**1-2 Shift Error**
P0782✱	**2-3 Shift Error**
P0783✱	**3-4 Shift Error**
P0784✱	**4-5 Shift Error**
P0785	Shift/Timing Solenoid Error
P0786	Shift/Timing Solenoid Range/Perf
P0787	Shift/Timing Solenoid Lo
P0788	Shift/Timing Solenoid Hi
P0789	Shift/Timing Solenoid Intermittent
P0790	Normal/Perf Switch Circuit Error
P0791	Intermediate Shaft Speed Sensor Circuit
P0792	Intermediate Shaft Speed Sensor Circuit Range/Perf
P0793	Intermediate Shaft Speed Sensor Circuit No Signal

Code	Interpretation
P0794✱	**Intermediate Shaft Speed Sensor Circ Intermittent**
P0795✱	**Pres Ctrl Solenoid C**
P0796✱	**Pres Ctrl Solenoid C Perf/Stuck Off**
P0797✱	**Pres Ctrl Solenoid C Stuck On**
P0798	Pres Ctrl Solenoid C Electrical
P0799	Pres Ctrl Solenoid C Intermittent
P0801	Reverse Inhibit Ctrl Circuit Error
P0803	1-4 Up shift (Skip Shift) Solenoid Ctrl Circuit Error
P0804	1-4 Up shift (Skip Shift) Lamp Ctrl Circuit Error
P0805	Clutch Pos Sensor Circuit
P0806	Clutch Pos Sensor Circuit Range/Perf
P0807	Clutch Pos Sensor Circuit Lo
P0808	Clutch Pos Sensor Circuit Hi
P0809	Clutch Pos Sensor Circuit Intermittent
P0810	Clutch Pos Ctrl Error
P0811	Excessive Clutch Slippage
P0812	Reverse Input Circuit
P0813	Reverse Output Circuit
P0814	Tran Range Display Circuit
P0815	Up Shift Switch Circuit
P0816	Down shift Switch Circuit
P0817	Starter Disable Circuit
P0818	Driveline Disconnect Switch Input Circuit
P0820	Gear Lever X-Y Pos Sensor Circuit
P0821	Gear Lever X Pos Sensor Circuit
P0822	Gear Lever Y Pos Sensor Circuit
P0823	Gear Lever X Pos Sensor Circuit Intermittent
P0824	Gear Lever Y Pos Sensor Circuit Intermittent
P0825	Gear Lever Push/Pull Switch Circuit (Shift Anticipate)
P0830	Clutch Pedal Switch A Circuit
P0831	Clutch Pedal Switch A Circuit Lo
P0832	Clutch Pedal Switch A Circuit Hi
P0833	Clutch Pedal Switch B Circuit
P0834	Clutch Pedal Switch B Circuit Lo
P0835	Clutch Pedal Switch B Circuit Hi
P0836	4WD Switch Circuit
P0837	4WD Switch Circuit Range/Perf
P0838	4WD Switch Circuit Lo
P0839	4WD Switch Circuit Hi
P0840	Tran Fluid Pres Sensor/Switch A Circuit
P0841	Tran Fluid Pres Sensor/Switch A Circuit Range/Perf
P0842	Tran Fluid Pres Sensor/Switch A Circuit Lo
P0843	Tran Fluid Pres Sensor/Switch A Circuit Hi
P0844	Tran Fluid Pres Sensor/Switch A Circuit Intermittent
P0845	Tran Fluid Pres Sensor/Switch B Circuit
P0846	Tran Fluid Pres Sensor/Switch B Circuit Range/Perf
P0847	Tran Fluid Pres Sensor/Switch B Circuit Lo
P0848	Tran Fluid Pres Sensor/Switch B Circuit Hi
P0849	Tran Fluid Pres Sensor/Switch B Circuit Intermittent
P1000	Monitor Checks Not Complete-More Driving Required
P1031	HO2S Heater Current Monitor Ctrl Circ(Bank1&2,Sens1)
P1032	HO2S Heater Warm Up Ctrl Circ (Bank1&2, Sens1)
P1105	Sec Vacuum Sensor Circuit
P1106	Manif Abs Press (MAP) Sens Circ Intermittent Hi Volts
P1107	Manif Abs Press (MAP) Sens Circ Intermittent Lo Volts
P1108	BARO to MAP Sens Comparison Too Hi
P1109	Sec Port Throttle Sys
P1111	Intake Air Temp (IAT) Sens Circ Intermittent Hi Volts
P1112	Intake Air Temp (IAT) Sens Circ Intermittent Lo Volts
P1113	Intake Resonance Switchover Solenoid Ctrl Circ
P1114	Eng Coolant Temp (ECT) Sens Circ Intermittent Lo Volts
P1115	Eng Coolant Temp (ECT) Sens Circ Intermittent Hi Volts
P1116	ECT Sig Unstable or Intermittent
P1117	Eng Coolant Temp Sig Out-Of-Range Lo
P1118	Eng Coolant Temp Sig Out-Of-Range Hi
P1119	ECT Sig Out-Of-Range With TFT Sens
P1120	Throttle Pos (TP) Sens1 Circ
P1121	Throttle Pos (TP) Sens Circ Intermittent Hi Volts
P1122	Throttle Pos (TP) Sens Circ Intermittent Lo Volts
P1125	APP Sys
P1130	HO2S Circ Lo Variance Bank1 Sens1
P1131	HO2S Circ Lo Variance Bank1 Sens2
P1132	HO2S Circ Lo Variance Bank2 Sens1
P1133	HO2S Insufficient Switching Bank1 Sens1
P1134	HO2S Transition Time Ratio Bank1 Sens1
P1135	HO2S Lean Mean Bank1 Sens1
P1136	HO2S Rich Mean Bank1 Sens1
P1137	HO2S Bank1 Sens2 Lean Sys or Lo Volts
P1138	HO2S Bank1 Sens2 Rich or Hi Volts
P1139	HO2S Insuff Switching Bank1 Sens2
P1140	HO2S Transition Time Ratio Bank1 Sens2
P1141	HO2S Heater Ctrl Circ Bank1 Sens2
P1143	HO2S Bank1 Sens3 Lean Sys or Lo Volts
P1144	HO2S Bank1 Sens3 Rich or Hi Volts
P1145	HO2S Cross Counts Bank1 Sens3
P1153	HO2S Insufficient Switching Bank2 Sens1
P1154	HO2S Transition Time Ratio Bank2 Sens1
P1155	HO2S Lean Mean Bank2 Sens1
P1156	HO2S Rich Mean Bank2 Sens1
P1157	HO2S Bank2 Sens2 Lean Sys or Lo Volts
P1158	HO2S Bank2 Sens2 Rich or Hi Volts
P1159	HO2S Cross Counts Bank2 Sens2
P1161	HO2S Heater Ctrl Circ Bank2 Sens2
P1163	HO2S Bank2 Sens3 Lean Sys or Lo Volts
P1164	HO2S Bank2 Sens3 Rich or Hi Volts
P1165	HO2S Cross Counts Bank2 Sens3
P1170	Bank to Bank Fuel Trim Offset
P1171	Fuel Sys Lean During Acceleration
P1185	Eng Oil Temp Circ
P1186	EOT Circ Perf
P1187	EOT Sens Circ Lo Volts
P1188	EOT Sens Circ Hi Volts
P1189	Eng Oil Press (EOP) Switch Circ
P1190	Eng Vacuum Leak
P1191	Intake Air Duct Air Leak
P1200	Injector Ctrl Circ
P1201	(Alt. Fuel) Gas Mass Sens Circ Range/Perf
P1202	(Alt. Fuel) Gas Mass Sens Circ Lo Freq
P1203	(Alt. Fuel) Gas Mass Sens Circ Hi Freq
P1211	Mass Air Flow Circ Intermittent Hi
P1212	Mass Air Flow Circ Intermittent Lo
P1214	Inject Pump Timing Offset
P1215	Gnd Fault Detection Indicated
P1216	Fuel Solenoid Response Time Too Short
P1217	Fuel Solenoid Response Time Too Long
P1218	Inject Pump Calibration Circ
P1219	Throttle Pos Sens Ref Volts
P1220	Throttle Pos (TP) Sens2 Circ
P1221	Fuel Pump Sec Circ Lo
P1222	Injector Ctrl Circ Intermittent
P1225	Injector Circ Cylinder 2 Intermittent
P1228	Injector Circ Cylinder 3 Intermittent
P1231	Injector Circ Cylinder 4 Intermittent
P1234	Injector Circ Cylinder 5 Intermittent
P1237	Injector Circ Cylinder 6 Intermittent
P1240	Injector Circ Cylinder 7 Intermittent
P1243	Injector Circ Cylinder 8 Intermittent
P1245	Intake Plenum Switchover Valve
P1250	Early Fuel Evaporation Heater Circ
P1257	Supercharger Sys Over boost
P1258	Eng Coolant Over Temp - Protection Mode Active
P1260	Last Test Failed SCC ENTER More Info.
P1270	Accelerator Pedal Pos Sens A/D Converter Error
P1271	Accelerator Pedal Pos (APP) Sens1-2 Correlation
P1272	Accelerator Pedal Pos Sens2
P1273	Accelerator Pedal Pos Sens1
P1274	Injectors Wired Incorrectly
P1275	Accelerator Pedal Pos (APP) Sens1 Circ
P1276	Accelerator Pedal Pos Sens1 Circ Perf
P1277	Accelerator Pedal Pos Sens1 Circ Lo Volts
P1278	Accelerator Pedal Pos Sens1 Circ Hi Volts
P1280	Accelerator Pedal Pos (APP) Sens2 Circ
P1281	Accelerator Pedal Pos Sens2 Circ Perf
P1282	Accelerator Pedal Pos Sens2 Circ Lo Volts
P1283	Accelerator Pedal Pos Sens2 Circ Hi Volts
P1285	Accelerator Pedal Pos Sens3 Circ
P1286	Accelerator Pedal Pos Sens3 Circ Perf
P1287	Accelerator Pedal Pos Sens3 Circ Lo Volts
P1288	Accelerator Pedal Pos Sens3 Circ Hi Volts
P1300	Igniter Circ
P1305	Ign Coil 2 Pri Feedback Circ
P1310	Ign Coil 3 Pri Feedback Circ
P1315	Ign Coil 4 Pri Feedback Circ
P1320	C 4X Ref Circ Intermittent
P1321	Electronic Ign Sys Fault Line
P1322	EI Sys or Ign Ctrl Extra or Missing
P1323	IC 24X Ref Circ Lo Freq
P1324	Crank RPM Too Lo
P1335	CKP Circ
P1336	Crankshaft Pos (CKP) Sys Variation Not Learned
P1345	Crankshaft Pos (CKP)-Camshaft Pos (CMP) Correlation
P1346	Intake Camshaft Pos [CMP] Sens Sys Perf
P1350	Ign Ctrl Sys
P1351	Ign Coil Ctrl Circ Hi Volts

Code	Interpretation
P1352	IC Output Hi/Pulse Detected when GND Cyl. 2
P1353	IC Output Hi/Pulse Detected when GND Cyl. 3
P1354	IC Output Hi/Pulse Detected when GND Cyl. 4
P1355	IC Output Hi/Pulse Detected when GND Cyl. 5
P1356	IC Output Hi/Pulse Detected when GND Cyl. 6
P1357	IC Output Hi/Pulse Detected when GND Cyl. 7
P1358	IC Output Hi/Pulse Detected when GND Cyl. 8
P1359	Ign Coil Group 1 Ctrl Circ
P1360	Ign Coil Group 2 Ctrl Circ
P1361	Ign Coil Ctrl Circ Lo Volts
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 Ref Circ Too Many Pulses
P1371	IC 4X Ref Circ Too Few Pulses
P1372	Crankshaft Pos (CKP) Sensor A-B Correlation
P1374	3X Ref Circ
P1375	IC 24X Ref Circ Hi Volts
P1376	Ignition Gnd Circuit
P1377	IC Cam Pulse To 4X Ref Pulse
P1380	Misfire Detected - Rough Road Data Not Available
P1381	Misfire Detected - No Comm with Brake Ctrl Module
P1390	Wheel Speed Sensor1 - G - Sensor Circ
P1391	Wheel Speed Sensor1 - G - Sensor Circ Perf
P1392	Wheel Speed Sensor1 - G - Sensor Circ Lo Volts
P1393	Wheel Speed Sensor1 - G - Sensor Circ Hi Volts
P1394	Wheel Speed Sensor1 - G - Sensor Circ Intermittent
P1395	Wheel Speed Sensor2 - G - Sensor Circ
P1396	Wheel Speed Sensor2 - G - Sensor Circ Perf
P1397	Wheel Speed Sensor2 - G - Sensor Circ Lo Volts
P1398	Wheel Speed Sensor2 - G - Sensor Circ Hi Volts
P1399	Wheel Speed Sensor2 - G - Sensor Circ Intermittent
P1403	Exhaust Gas Recirc Sys Valve 1
P1404	Exhaust Gas Recirc (EGR) Closed Pos Perf
P1405	Exhaust Gas Recirc Sys Valve 3
P1406	EGR Valve Pintle Pos Circ
P1407	EGR Air Intrusion in Exhaust Supply to EGR Valve
P1408	Intake Manifold Press Sensor Circ
P1409	EGR Vacuum Sys Leak
P1410	Fuel Tank Press Sys
P1415	Sec Air Inject (AIR) Sys Bank1
P1416	Sec Air Inject (AIR) Sys Bank2
P1418	Sec Air Inject Sys Relay A Ctrl Circ Hi
P1420	Intake Air Lo Press Switch Circ Lo Volts
P1421	Intake Air Lo Press Switch Circ Hi Volts
P1423	Intake Air Hi Press Switch Circ Hi Volts
P1431	Fuel Level Sensor2 Circ Perf
P1432	Fuel Level Sensor2 Circ Lo Volts
P1433	Fuel Level Sensor2 Circ Hi Volts
P1441	EVAP Emission Sys Flow During Non-Purge
P1442	EVAP Vacuum Sw. Hi Volts During Ignition. On
P1450	Barometric Press Sensor Circ
P1451	Barometric Press Sensor Perf
P1460	Cooling Fan Control System
P1480	Fan Secondary Lo With Lo Fan On
P1481	Fan Secondary Lo With Hi Fan On
P1483	Eng Cooling Sys Perf
P1500	Starter Sig Circ
P1501	Theft Deterrent Sys
P1501	Vehicle Speed Sensor Circ Intermittent
P1502	Theft Deterrent Fuel Enable Sig Not Received
P1503	Theft Deterrent System - Password Incorrect
P1504	Vehicle Speed Output Circuit
P1508	IAC System Lo RPM
P1509	IAC System Hi RPM
P1510	Back Up Power Supply
P1511	Throttle Control System - Backup System Performance
P1514	Air Flow to TP Sensor Correlation Hi
P1515	Electronic Throttle System Throttle Position
P1516	Electronic Throttle Module Throttle Position
P1517	Electronic Throttle Module
P1518	Electronic Throttle Module to PCM Communication
P1519	Electronic Throttle Module Lo Volts Comm. Disable
P1520	Gear Indicator System
P1521	Transmission Engaged at Hi Throttle Angle
P1522	Park/Neutral to Drive/Reverse at Hi RPM
P1523	Elec. Throttle Control Throttle Return
P1524	TP Sen. Learned Cl. Throttle. Angle ß Out of Range
P1525	Throttle Body Service Required
P1526	TP Sensor Learn Not Complete
P1527	Trans. Range/Pressure Switch Comparison
P1528	Governor
P1529	Heated Windshield Request Problem
P1530	Ignition Timing Adjustment Switch Circuit
P1531	A/C Lo Side Temperature Sensor Fault
P1532	A/C Evaporator Temp Sensor Circ Lo Voltage
P1533	A/C Evaporator Temp Sensor Circ Hi Voltage
P1534	A/C Hi Side Temp. Sensor Lo Voltage
P1535	A/C Hi Side Temperature Sensor Circuit
P1536	A/C System - ECT Over temperature
P1537	A/C Request Circuit Lo Voltage
P1538	A/C Request Circuit Hi Voltage
P1539	A/C Clutch Status Circ High Volts
P1540	A/C System Hi Pressure
P1541	A/C Hi Side Over Temperature
P1542	A/C System Hi Pressure Hi Temperature
P1543	A/C System Performance
P1544	A/C Refrigerant Condition Very Lo
P1545	A/C Clutch Relay Control Circuit
P1546	A/C Clutch Status Circuit Lo Voltage
P1547	A/C System Performance Degraded
P1548	A/C Recirculation Circuit
P1554	Cruise Engaged Circuit Hi Voltage
P1555	Electronic Variable Orifice Output
P1558	Cruise Control Servo Indicates Lo
P1559	Cruise Control Power Management Mode
P1560	Cruise Control Sys - Transaxle Not In Drive
P1561	Cruise Vent Solenoid
P1562	Cruise Vacuum Solenoid
P1563	Cruise Vehicle Speed/Set Speed Difference Too Hi
P1564	Cruise Control System - Vehicle Accel Too Hi
P1565	Cruise Servo Position Sensor
P1566	Cruise Control System - Engine RPM Too Hi
P1567	Cruise Control System - Active Braking Control Active
P1568	Cruise Servo Stroke Greater than Commanded in Cruise
P1569	Cruise Servo Stroke Hi While not in Cruise
P1570	Cruise Control Sys - Traction Control Active
P1571	TCS PWM Circuit No Frequency
P1572	ASR Active Circuit Lo Too Long
P1573	PCM/EBTCM Serial Data Circuit
P1574	EBTCM System - Stop Lamp Switch Circ Hi Volts
P1575	Extended Travel Brake Sw. Circ Hi Volts
P1576	BBV Sensor Circ Hi Voltage
P1577	BBV Sensor Circ Lo Voltage
P1578	BBV Sensor Circ Lo Vacuum
P1579	P/N to D/R At Hi Throttle Angle
P1580	Cruise Move Circuit Lo Voltage
P1581	Cruise Move Circuit Hi Voltage
P1582	Cruise Direction Circuit Lo Voltage
P1583	Cruise Direction Circ Hi Voltage
P1584	Cruise Control Disabled
P1585	Cruise Inhibit Control Circuit
P1586	Cruise Control Brake Switch 2 Circuit
P1587	Cruise Control Clutch Control Circuit Lo
P1588	Cruise Control Clutch Control Circuit Hi
P1599	Eng Stall or Near Stall Detected
P1600	PCM Battery/TCM Watchdog
P1601	Serial Comm. Problem With Device 1
P1602	Loss Of EBTCM Serial Data
P1603	Loss Of 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 of RIM Serial Data
P1615	Loss of VTD Serial Data
P1617	Engine Oil Level Switch Circuit
P1619	Engine Oil Life Monitor Reset Circuit
P1620	Lo Coolant Circuit
P1621	PCM Memory Performance
P1622	Cylinder Select
P1623	Transmission Temp Pull-Up Resistor
P1624	Customer Snapshot Data Available
P1625	PCM System Reset

Code	Interpretation
P1626	Theft Deterrent System Fuel Enable Circuit
P1627	A/D Performance
P1628	ECT Pull-Up Resistor
P1629	Theft Deterrent Sys - Cranking Signal
P1630	Theft Deterrent Sys - PCM In Learn Mode
P1631	Theft Deterrent Sys - Password Incorrect
P1632	Theft Deterrent System - Fuel disabled
P1633	Ignition Supply Power Circuit Lo Voltage
P1634	Ignition 1 Power Circuit Lo Voltage
P1635	5 Volt Reference Lo
P1636	PCM Stack Overrun
P1637	Generator L-Terminal Circuit
P1638	Generator F-Terminal Circuit
P1639	5 Volt Reference 2 Circuit
P1873	TCC Stator Temp Switch Circ Low
P1874	TCC Stator Temp Switch Circ High
P1875	4WD Low Switch Circ Electrical
P1884	TCC Enable/Shift Light Circ
P1886	Shift Timing Solenoid
P1887	TCC Release Switch Circ
P1890	ECM Data Input Circ
P1890	Throttle Pos Signal Input
P1891	Throttle Pos Sensor PWM Signal Low
P1892	Throttle Pos Sensor PWM Signal High
P1893	Eng Torque Signal Low Volts
P1894	Eng Torque Signal High Volts
P1895	TCM to ECM Torque Reduction Circuit
P1640	Driver 1 - Input Hi Voltage
P1641	FC Relay 1 Control Circuit
P1642	FC Relay 2 and 3 Control Circuit
P1643	Engine Speed Output Circuit
P1644	Traction Ctrl Delivered Torque Output Circ
P1645	EVAP Emission (EVAP) Vent Solenoid Control Circ
P1646	Driver 1 Line 6
P1647	Driver 1 Line 7
P1650	Driver 2 - Input Hi Voltage
P1651	Fan 1 Relay Control Circuit
P1652	VSS Output Circuit
P1653	Oil Level Lamp Control Circuit
P1644	TP Output Circuit
P1645	EVAP Solenoid Output Circuit
P1654	Service Throttle Soon Lamp Control Circuit
P1655	EVAP Purge Solenoid Control Circuit
P1656	Driver 2 Line 6
P1657	1-4 Up shift Solenoid Control Circuit
P1658	Starter Enable Relay Control Circuit
P1660	Cooling Fans Control Circuit
P1661	MIL Control Circuit
P1662	Cruise Control Inhibit Control Circuit
P1663	Oil Life Lamp Control Circuit
P1664	1-4 Up shift 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	Driver 4 Line 1
P1672	Lo 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 Lo Voltage
P1692	Coolant Gage Circuit Hi Voltage
P1693	Tachometer Circuit Lo Voltage
P1694	Tachometer Circuit Hi Voltage
P1695	Remote Keyless Entry Circuit Lo
P1696	Remote Keyless Entry Voltage Hi
P1700	Trans. MIL Request
P1701	Trans. MIL Request Circuit
P1705	P/N Signal Output Circuit
P1740	Torque Reduction Signal Circ
P1743	TP Signal from ECM
P1760	TCM Supply Volts Interrupted
P1779	Eng Torque Delivered to TCM Signal
P1780	Park/Neutral Pos [PNP] Switch Circ
P1781	Eng Torque Signal Circ
P1790	Trans Ctrl Module Checksum
P1791	Trans Ctrl Module Loop
P1792	Trans Ctrl Module Reprogrammable Memory
P1792	ECM to TCM Eng Coolant Signal
P1793	Trans Ctrl Module Stack Overrun
P1795	CAN Bus - Throttle Body Pos
P1800	TCM Power Relay Ctrl Circ
P1801	Perf Selector Switch Failure
P1804	Gnd Ctrl Relay
P1810	TFP Valve Pos Switch Circ
P1811	Maximum Adapt and Long Shift
P1812	Trans Over Temp Condition
P1813	Torque Ctrl
P1814	Torque Converter Overstressed
P1815	Trans Range Switch - Start In Wrong Range
P1816	TFP Valve Pos Sw. - Park/Neutral With Drive Ratio
P1817	TFP Valve Pos Sw. - Reverse With Drive Ratio
P1818	TFP Valve Pos Sw. - Drive Without Drive Ratio
P1819	Internal Mode Switch - No Start\Wrong Range
P1820	Internal Mode Switch Circ A Low
P1822	Internal Mode Switch Circ B High
P1823	Internal Mode Switch Circ P Low
P1825	Internal Mode Switch - Invalid Range
P1826	Internal Mode Switch Circ C - High
P1831	PC Solenoid Power Circ - Low Volts
P1833	A/T Solenoids Power Circ - Low Volts
P1835	Kick-Down Switch Circ
P1836	Kick-Down Switch Failed Open
P1837	Kick-Down Switch Failed Short
P1842	1-2 Shift Solenoid Circ Low Volts
P1843	1-2 Shift Solenoid Circ High Volts
P1844	Torque Reduction Signal Circ Desired By TCM
P1845	2-3 Shift Solenoid Circ Low Volts
P1847	2-3 Shift Solenoid Circ High Volts
P1850	Brake Band Apply Solenoid Circ
P1851	Brake Band Apply Solenoid Perf
P1852	Brake Band Apply Solenoid Low Volts
P1853	Brake Band Apply Solenoid High Volts
P1860	TCC PWM Solenoid Circ Electrical
P1864	Torque Converter Clutch Circ
P1868	Trans Fluid Life
P1870	Trans Component Slipping
P1871	Undefined Gear Ratio
P1873	TCC Stator Temp Switch Circ Low
P1874	TCC Stator Temp Switch Circ High
P1875	4WD Low Switch Circ Electrical
P1884	TCC Enable/Shift Light Circ
P1886	Shift Timing Solenoid
P1887	TCC Release Switch Circ
P1890	ECM Data Input Circ
P1890	Throttle Pos Signal Input
P1891	Throttle Pos Sensor PWM Signal Low
P1892	Throttle Pos Sensor PWM Signal High
P1893	Eng Torque Signal Low Volts
P1894	Eng Torque Signal High Volts
P1895	TCM to ECM Torque Reduction Circuit

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