Ginos garage

You then can know where to look to fix the problem. A good mid-priced scan tool is therefore the next recommended item to go into your tool kit. The scan tool is plugged into the OBD2 on-board diagnostic, series two connector which is usually found under the bottom of the dashboard near the steering column. This 16 pin rectangle shaped connector can not only give you trouble codes, but if your scan tool is capable, it can give you a running data stream of powertrain operation while driving. It can also be used to erase the code s and turn off the check engine light. To use a scan tool, plug it in and turn on the ignition key without starting the engine. Codes will be displayed in a few moments. When finished getting the codes, turn off the key before unplugging the scan tool. Read on to learn more about some added available scan tool functions. In , federal regulations were introduced with the goal of further reducing vehicle exhaust emissions. If your state has vehicle emissions testing, you can use a scan tool with testing capability to ensure your vehicle will pass before going for the mandated test. Nowadays the emissions test mostly serves to generate tax revenue. There was no electronic engine control module ECM until the To help you understand the difference between nuisance codes and something more serious, we should explore code classifications. For instance, if a problem is detected with a sensor but is not repeated during the next drive cycle or next several drive cycles, the CEL can be turned off by the computer. The code will still be stored in the computer for future retrieval. If a malfunction continues during another drive cycle, the light stays on. Sometimes, simply shutting down your ride and restarting it after a minute or two will turn off the light. That was a nuisance DTC, a temporary malfunction. DTCs consist of a letter and then several numbers. Other DTCs are manufacturer specific. DTC code lists can run into more than a hundred possible codes on the latest models of cars and trucks. The fourth and fifth digits identify what section of the system is malfunctioning. Many mid-priced scan tools will give you the code and also give the code definition in plain text. This would be called a serious problem that needs to be repaired as quickly as possible as it not only affects engine power and performance, but also affects exhaust system equipment and sensors. It should be fixed, but not today unless you have trouble starting the engine when it is cold. Using the scan tool, you can erase this code from the computer and see if it comes back the next time you start your truck. Any malfunction that is exhaust emissions related will turn on the CEL right away. If the problem is temporary, the computer will turn off the light after two or three drive cycles of similar operating conditions if there was no fault found. Most of the better scan tools display the most important DTC first, followed by the less important ones in descending order. There are all sorts of sensors that monitor brake system operation, automatic transmission operation, and body electrical functions. Instead, the computer takes over and commands the compressor to operate as needed while also issuing engine fan commands and monitoring refrigerant pressure to make sure you get cold air from the dash registers. A related cabin temperature sensor makes sure you are comfortable. There may be other computers in any vehicle that monitor and operate other functions, and these sub-computers all communicate with the main computer. All of these computers will run self-diagnostic routines at engine startup, and the engine control computer will often run self- test routines almost continuously on exhaust emissions related sensors. The computer is therefore capable of doing thousands of tasks per minute. The sensors in your vehicle operate on small voltages, ranging from near zero to plus five volts. The sensor itself is okay. Need an example? Using the scan tool while doing a test drive can determine in which circuit the problem lies and you diagnose only one circuit. You can use one too and they are readily available at your local auto parts store or on the internet. Scan tools for shade tree use are relatively inexpensive. Top end models for professional techs can cost thousands. Also buy a scan tool that is upgradeable by using a USB cable to hook it to your computer. This tool should work on almost any car or truck, gasoline or diesel, made in the last years so you will find that it has many uses if you troubleshoot more than one vehicle. Got a new motorcycle, snow mobile, or jet ski? There is probably an engine computer and an OBD2 connector on it, also. Got a big road tractor? The same tool works for it, too. Scan tools in the recommended price range can also download emissions related engine operating conditions that were present at the time the fault was registered as well as test all federally required emissions related sensors, an important feature if your state has emissions testing. Using a scan tool to check that all emissions related sensors are reporting properly can help ensure that your vehicle will pass an emissions test where it is mandated by state law. Using the scan tool while driving the vehicle will give you continuous operating data for most computer inputs and outputs while you isolate the problem or condition that set the DTC. There are many internet sites you can check that will give you an explanation for this type of code, and there is probably an internet reference site associated with the maker of your scan tool that can also help. Search for Ram Diagnostic Trouble Codes. Some codes are diesel engine specific while others will pertain to any Chrysler sponsored vehicle. Vehicle manufacturers are continually adding new

DTC codes, so updating your tool is important, particularly if you work on more than one vehicle. Sometimes an electrical connection has become corroded and needs to be cleaned because the signal was intermittent or out of normal ranges. And sometimes you may need to replace the sensor, but check the simple stuff first. Happy scanning! It can do more than just scan for trouble codes and has a much more legible screen that can be seen easily while driving. Check it out. This article originally appeared in the Turbo Diesel Register. How are Sensors Part of the System? Key on-engine off screen shows no codes and emissions sensors are all operating okay on this vehicle. January 26, genosgarage 0. September 04, genosgarage 0. The Cummins diesel is a longevity engine. When serviced properly, the engine should last , to July 09, genosgarage 0. You then can know where to look to fix the problem. A good mid-priced scan tool is therefore the next recommended item to go into your tool kit. 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briggs and stratton 550 series parts diagram
bmw e90 intake manifold removal
jeep grand cherokee 2016 release date

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