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How to use innova obd2 scanner

If you are a DIY mechanic or just someone who wants to identify and better understand vehicle problems before taking it to the local workshop, an OBD2 (or OBDII) diagnostic tool (or scanner) is almost necessary. What is an OBD2 Scanner? An obd2 (on-board diagnostics – generation two, post-1996) is a device that can read, interpret, and remove computer codes related to dashboard warning lights in cars and trucks. OBD2 devices are necessary tools in any workshop, since things like the Check Engine light can literally mean that one or more of a hundred things are wrong with the vehicle. How to use an OBD2 scanner? To use an OBD2 scanner tool, connect the device to the OBD2 port inside the vehicle (usually located under the dashboard in the driver's side footwell area), turn on the ignition, and scan the vehicle with the device or mobile app. Depending on the OBD2 device's features, it will scan the vehicle for problem codes, recalls, maintenance specifications, and more. Most newer OBD2 scanners also generate a report with varying degrees of potential ways to resolve any issues identified during the scan. Innova OBD2 Scanners If you've even been to one of the more popular auto parts stores, you've probably seen Innova OBD2 code readers somewhere near the payment counter. Innova has been designing and developing diagnostic tools out of its California headquarters for about 30 years. About half that time, their network of ASE certified technicians (which you can call directly) has built a massive database of millions of car problems and repairs for just about all foreign and domestic cars and trucks. While we have two favorite DIY OBD2 devices at the moment, let's see if either the Innova 5210 CarScan Advisor or the Innova 5610 CarScan Pro can win us over or maybe supplement our faves, because they actually sit in a slightly different place. More on all this in a few. Features of both: INNOVA CarScan Pro 5210 Code Scanner - Professional OBD2 Code Reader - Emissions Test Scan Tool -... EASY SCAN, READ AND RESET CHECK ENGINE LIGHT, ABS (Brake) CODES & MORE - Innova's 5210 ... THE DEVICE IS GREAT, BUT THE DATA IS BETTER - Innova has best-in-class data to help you ... LIVE DATA FOR MORE ACCURATE DIAGNOSIS - With the Innova 5210 OBD2 browser you can see your ... KNEW YOUR SMOG CHECK RESULTS BEFORE THE STATE DOES - More than just a car check engine... DESIGNED AND SUPPORTED IN THE UNITED STATES - Buy with confidence. Our California-based, ASE certified... Sale INNOVA CarScan Pro 5610 OBD2 car code scanner - bidirectional scan tool and professional OBD2 code... MAINTAINING TOP PERFORMANCE AND SAFETY ON THE ROAD - 5610 OBD2 Scanner helps you easily ... PREMIUM OBD2 CODE READER WITH IMPROVED COVERAGE AND FUNCTIONALITY - This car diagnostic ... SEND COMMANDS WITH TWO-WAY CONTROLS - This two-way sender sender SELF-DIAGNOSIS OF EMISSION STATUS AND OTHER IMPORTANT INFORMATION - Know your smog ... BUY WITH TRUST WITH USA DESIGNED AND SUPPORTED PRODUCTS - Our California-based,... Design & Build Quality The design and design of both the Innova 5210 and 5610 is pretty much the same even though the 5610 is slightly larger overall. The 5210 measures about 6 x 3.5 while the 5610 is closer to 7 x 4. The packaging for both units is the same size. The nice, bright color display of the 5210 is almost 3, while the same screen at 5610 is slightly larger at 3.5. The text and data graphs are sharp, although things get a little small when you combine multiple graphs on a single screen. We used the devices inside and in bright sunlight and could see the screen without any problems. Both screens also allow brightness adjustments in the Tools Settings screen. Both devices have an ergonomic lower half for quick, one-handed access to all nine function buttons. The 5610 has two additional buttons under the screen, which are used for various functions, such as Yes/No, Next/Previous, etc., which can be a little harder to reach one-handed for some. The smaller and less advanced 5210 has an integrated downloadable cable (data link connector) to connect the device to the vehicle's OBD2 port, while the larger 5610 has a detachable cable that is also much longer. The short cable on the 5210 can be frustrating at times, as it didn't even allow the device to reach our lap when we were sitting in the Jeep. There are OBD1 adapters available from Innova, too, which also require a firmware update. Of the two devices we have, only 5610 can be customized to work with OBD1 vehicles. The 5210 is operated via the car's own electrical system, so there are no batteries. However, the 5610 requires three AA batteries to store vehicle information and to turn on the device when not connected to a vehicle. We didn't test the battery life of the device, but powered it a lot, on and off, over the course of a month or so. The battery indicator is not displayed (when it does, the batteries are low). If you plan to store it for extended periods of time, remove the batteries so that they do not end up leaking and destroying the device. Speaking of storage, our scanners unfortunately did not come with any kind of storage bag. At least for the much more expensive 5610 model, we'd like to see a case that comes with the product. Innova sells the following case: Setup and problem codeCanning When you connect one of the readers to the car's OBD2 port, you want to switch the ignition to its ON position but do not start the engine. The device will then ask you some initial questions and you will be asked to enter the car's current mileage and verify its layer and model. You can also manually select the vehicle's make and model via a variety of menus, if you After approximately 20-30 seconds, the devices retrieve and display any diagnostic problems and any freeze frame data stored in the vehicle's data memory. If no codes are present, the screen will say so and the green LED lights up. If an error code was found, the display displays the correct code with a summary of the problem, and the red LED lights up. If more than one code was found, use the FF/DTC button to move on to the next screen. Each code is also assigned a severity level. A level one should be repaired when it is convenient, a level two ASAP, and a level three means that the vehicle should not be driven before repaired. These codes are visible on the display below each code description. After the 5210 discovered our problems, we switched to 5610 since it does everything and more than 5210. If the yellow LIGHT NODE is lit, it represents pending codes or other warnings. We suggest that you review the Innova users' manuals (not included in the boxes) for details of the three LEDs, and all other features and features before diving into tools like these to make important decisions around vehicle repairs. In our case, we fixed and cleared the underlying problem, but 5610 reported that the DTC was still stored in the car's memory. Permanent DTCs cannot be reset by an OBD2 scanner, nor by disconnecting the battery. Instead, the vehicle must run its own internal scan again and will after sufficient driving time. At that point, if the problem is actually resolved, DTC will disappear. P0, P2 and some P3 codes are universal codes across the OBD2 protocol, while P1 and some P3 codes are manufacturer specific. The Innova RepairSolutions 2 add-on app for iOS or Android helps you find solutions and parts, but for more complex problems, you may want to do some online research to see if you're comfortable fixing things yourself. Code sequence and freeze frame data When a DTC (again, diagnostic problems) is triggered, the vehicle stores a snapshot of the engine's relationship to internal memory at the time of the event. This is the freeze frame data that appears on the screen after the first P code. The first problem code displayed on the device is always the highest priority code, and the one that the freeze frame data on the following screen represents. Trailing problem codes, without freeze frame data, begin on the third screen if they exist. Improved DTCs Beyond identifying standard problem codes, both 5210 and 5610 scanners provide the ability to retrieve certain enhanced DTCs for certain team and model vehicles. The 5210 is a little more limited here, but the 5610 can read DTCs for ABS (anti-lock braking system), SRS (supplementary restraint system, aka: airbags), and TPMS (tire pressure monitoring system). 5210 does not read SRS or TPMS codes, but read ABS codes. There are also OEM enhanced DTCs that the scanner can search for. From the Systems menu, you'll see your vehicle badge listed if enhanced DCs are supported. You will scan them just as you would global DTCs. Deleting DTCs Like most OBD2 scanning tools, both Innova 5210 and 5610 can delete or reset a vehicle's identified problem codes. With these two devices, it's just a press of a button. When ETCs are deleted from the car's onboard computer, so too are freeze frame data and manufacturer-specific enhanced data. Permanent DTCs are not deleted, and debug codes can be re-displayed if problems persist (e.g. if repairs are not done). Vehicle Tests Other than identifying and removing DTCs, both 5210 and 5610 also offer common system tests, which are useful when you need to dive into a specific DTC or after repairs are done. Tests can be performed on the battery and charging system, the EVAP system to check for leaks, O2 sensors and emission-related powertrain components. Pre-discharge or smog test clearcheck is a great feature for those living in states that require such certifications. The three LEDs on the front of the device, and the various icons on the screen, will quickly tell you whether you want to pass or not. Green is good; yellow is probably not good; red is a failed test. There is actually nothing in either manual about running smog or pre-emission test. But the first scan will alert you when something is wrong. Conclusion: You go for the green light. Live Data Mode Both the 5210 and 5610 Innova OBD2 scanners allow you to view and record real-time data, such as RPMs, temperatures, speed, volts and more. You can also monitor things like the fuel system and its status in real time. The live data entry feature is useful for periodic issues that may not trigger a DTC. You can record approximately 100 images with live data. These are essentially screenshots, much like the freeze frame data stored on a DTC event. You can play the saved data in a slide show sorting (15s per slide) or manually, frame by frame. Each supported sensor or switch in the vehicle has its own PID (parameter identification data) that the OBD2 scanner can display in real time. Some of these may appear as text, graphs, or both. You can also view multiple PIDs on a single monitor or across multiple monitors when the screen itself becomes full. Finally, you can customize which data to display on a single screen (up to four) via the Custom Live Data Selection screen. Built-in and remote support Both the 5210 and 5610 provide built-in access to various useful resources, with no internet connection required. The DTC library contains a searchable list of OBD1 and OBD2 DTC definitions, while the LED and Icons library explains the many icons and different LED combinations the scanners display during use. device and app, Innova employs ASE certified technicians as customer service representatives working in the same location in the United States where the products are designed. Support is available Monday to Saturday, 6a-6p PST. That's a big plus, especially for DIYer. We probably should have done it, but not engaged them for this review ... Oops. 5210 vs. 5610 Obviously, both innova 5210 and 5610 share some basic but very useful abilities. Let's take a closer look at each model and how they are different from each other. Innova 5210 CarScan Advisor The Innova 5210 is the more basic or entry-level model of the two devices we have from Innova, but a good fit for those who mostly want to identify vehicle problems, what they think and – with the mobile app, which we're talking about later – verified find repair solutions and even order the parts directly from the app. 5210 can: Identify and remove check engine lights on any foreign or domestic 1996 and newer OBD2 car, light truck, SUV, or hybrid passenger car (OBD1 coverage optional). Check that the vehicle can pass an emission/smog test, which is required in some states. Scan, read and remove ABS codes (brake) on most domestic, Asian and European vehicles. Fornication tests of the vehicle's battery and charging system. Store scan data for playback and analysis through graphical representations. View live data in text or graph form, such as RPMs, temperatures, etc. As we have outlined above, the 5210 itself is quite compact with an easy-to-read 2.8 color display, an ergonomic lower half for quick one-handed access to all nine function buttons, and an integrated downloadable cable (data link connector) to connect the device to the vehicle's OBD2 port. The 5210 does not use batteries and is instead operated by the vehicle accessory fuses. And unlike some other OBD2 devices that allow you to change things like gear conditions, TPMS thresholds, etc., Innova 5210 does not write data to the vehicle and therefore cannot damage the vehicle or its electronic systems. The only time the device somewhat checks the vehicle is during an EVAP leak or O2 test, which will also not hurt anything. For those looking for an OBD2 scanner to stay on hand to only identify and remove vehicle problems, the Innova 5210 will do the trick. If you're looking for more detailed data, you may want to consider 5610. Read on. The Innova 5610 CarScan Pro Innova 5610 is far more expensive than the 5210, but is also more capable. In addition to the features of the 5210, the 5610 adds the ability to: Scan, read and remove SRS (airbag) codes on most domestic, Asian and European vehicles. Reset the oil light after an oil change (the scanner provides step-by-step instructions for your specific vehicle). Perform a network scan for all the system. Reset and initialize the battery management system an electronic parking brake (EPB) reset. Read tyre pressure and TPMS settings. Read the transfer temperature. View an improved direct data stream (engine, AT, ABS, SRS). Perform active tests for various vehicle actuators and systems. Depending on the vehicle's layer and model being tested, the 5610 offers a wide range of features that the 5210 does not. Beyond the icons above, the 5610 can perform very specific systems and actuator tests such as EGR, compression, cylinder performance, ESIM, ETC, NVLD, LDP, RBT, VVT and more. There are also brand-specific tests for the likes of GM, Ford, and Chrysler, plus others when using an optional OBD1 adapter for these vehicles. It is important to note that Innova offers OBD2 scanners between the two models we are talking about in this article. The 5210 may be a little too basic, while 5610 scans systems that many weekend warriors don't need or even understand. The following is a list of other OBD2 scanners offered by Innova: INNOVA CarScan Pro 5110 Code Scanner - Professional OBD2 Code Reader - Emissions Test Scan Tool - ABS ... SCAN, READ AND RESET CHECK ENGINE LIGHT, ABS (Brake) CODES & MORE - Innova's 5110 OBD2 ... THE DEVICE IS GREAT, BUT THE DATA IS BETTER - Innova has best-in-class data to help you ... KNEW YOUR SMOG CHECK RESULTS BEFORE THE STATE DOES - More than just a car check engine... EASY TO USE WITH ITS PATENTED ALL-IN-ONE DISPLAY - With the Innova 5110 OBD2 reader you ... DESIGNED AND SUPPORTED IN THE UNITED STATES - Buy with confidence. Our California-based, ASE certified... INNOVA CarScan Pro 5410 code scanner - professional OBD2 code reader - Emissions Test Scan Tool - All ... EASILY SCAN, READ AND RESET CHECK ENGINE LIGHTS, ABS (Brake), SRS (Airbag & Seat Belts) CODES ... THE DEVICE IS GREAT, BUT THE DATA IS BETTER - Innova has best-in-class data to help you ... LIVE DATA FOR MORE ACCURATE DIAGNOSIS - With the Innova 5410 OBD2 browser you can see your ... KNEW YOUR SMOG CHECK RESULTS BEFORE THE STATE DOES - More than just a car check engine... DESIGNED AND SUPPORTED IN THE UNITED STATES - Buy with confidence. Our California-based, ASE certified... INNOVA CarScan Pro 5510 Code Scanner - Professional OBD2 Code Reader - Network Scan Tool - Smog... EASILY SCAN, READ AND RESET CHECK ENGINE LIGHTS, ABS (Brake), SRS (Airbag & Seat Belts) CODES ... THE DEVICE IS GREAT, BUT THE DATA IS BETTER - Innova has best-in-class data to help you ... KNEW YOUR SMOG CHECK RESULTS BEFORE THE STATE DOES - More than just a car check engine... GRAPH, RECORDING AND PLAYBACK DATA FOR ANALYSIS - With the Innova 5510 OBD2 reader, you can ... DESIGNED AND SUPPORTED IN THE UNITED STATES - Buy with confidence. Our California-based, ASE certified... Our tests Like many of you we work with our cars and trucks in our garages. We have several professional mechanic connections around the city (including a shop owner in our own GarageSpot family), but to find time with was a challenge since we did this during the holidays. However, we created our own problems in some different vehicles, and both the 5210 and 5610 found these problems quickly (where applicable given the tool's capabilities, of course). The tests we conducted were not groundbreaking. We simply disconnected from various sensors, hoses and cables, including really hard-to-reach sensors. We also did things like trigger TPMS by letting some air out of the tires and driving around for a bit, and letting the gas cap off, which causes the jeep to throw a code every time. The scanners found them, we cleared the codes, solved the problem, and everything was fine again. We also ran with each scanner connected to see how accurate and fast the data features were. We monitored things we could verify — like speed and certain temperatures — and things we couldn't, like the temperature of the transmission. We are happy to report, they were on point, as far as what we could confirm. And don't drive and look at this at the same time. Duh. We dug deep into the 5610s available options since it is the more advanced model. There's a lot there in terms of which modules you can scan. On Jeep, we were able to scan all the modules mentioned through this article, plus things like radio, hands-free modules, wireless control modules ... the list was nine screens long. Repair Solutions 2 Mobile App At its core is the RepairSolutions 2 app, which is optional and free but requires registration, a comprehensive knowledge base developed by compiling and analyzing years of real vehicle service data. The app builds on the manufacturer's recommended diagnostic and repair information by providing verified, vehicle-specific repairs provided by ASE technicians across the country. When the app is paired with an Innova OBD2 scanner via Bluetooth or WiFi, it says in the DTCs similar to how they appear on the device itself – the P code and a brief description. The app then recommends parts you can buy to fix the problem(s) using the store you filled in during the app's first setup. It also provides access to video tutorials, car service bulletins and security backcads and is available for both Apple iOS and Android devices. We like the RepairSolutions app, but it's a little limited compared to other OBD2 apps that pair with either their own brand or third-party OBD2 dongles. We understand that the two devices we're talking about here – the Innova 5210 and 5610 – are not OBD2 dongles, but rather highly skilled standalone scanners where the mobile app is entirely optional. With the dongle products, the app is the device. One of our top picks is BlueDriver. Innova has a similar product, CarScan Mobile. The units are where the value is here. The app is a great add-on to find verified repairs and parts and, DIYer, finding verified fixes is gold when the problem can be one of many things. This is why we like the BlueDriver app so much. The upside of a standalone OBD2 reader, even if it's an optional companion app, is that it just works. No phone, no tablet, no problem. Firmware updates Both the Innova 5210 and 5610 are firmware update. At the bottom of each device there is a USB port (cables not included ... arrg!) to connect them to a PC. Oddly enough, both devices use a different type of USB port, as shown below with the 5210 on top of the 5610. From the Innova website, download the PC/desktop version of RepairSolutions Updater. Install it (you may get a Windows Security Warning while installing... it's okay), and from there you can update your device's firmware. We didn't see a Mac version and we don't think * you can update the firmware from the mobile app, even when connected via WiFi. Not positive on it, but the PC worked well, albeit it took about 20 minutes. Last thoughts When we compare the entire setup – the Innova OBD2 devices (in this case 5210 and 5610) combined with the optional free app – with one of our favorite OBD2 code readers, the BlueDriver OBD2 Scanner, BlueDriver is far more compact and easier to use. This is mainly because the app is the core of the system, and apps will always be more user-friendly than pressing nine or 11 buttons to browse individual computer screens like an old DOS computer system. Early in this article, we mentioned that the Innova products are in a slightly different room than our favorite OBD2 devices at the moment. The two favorites are, BlueDriver (as you know) and Vgate iCar Pro. Both are dongle/app combinations and Vgate allows us to change things in our Jeep as gear conditions to support our re-gearing of both axles, tire size for speedometer calibration, idle speed for winch, and TPMS thresholds for our much larger tires. Both units have their place in our garage, and so does the Innova 5610. 5210, not so much for us, but just because we want – and want to use – the more sophisticated device. 5610 can test systems that BlueDriver cannot. It also works on its own, without an app, and we have access to ASE certified help all week. Most DIYers don't need all the features of the 5610, so the 5210 will be fine to quickly read and remove codes, and find verified fixes via the RepairSolutions 2 mobile app. So, what do we recommend here? Almost every comparison review like this on the Internet ends right away ... it depends and it's super frustrating when you want advice. So, we will say this: if you just want to read codes and find fast, verified solutions when dash lights come on in your family car, the Innova 5210 CarScan Advisor is for you. If you really do work cars and need to dive much deeper into various vehicle systems to identify and repair vehicle problems, the Innova 5610 CarScan Pro is, far better choice. INNOVA CarScan Pro 5210 Code Scanner - Professional OBD2 Code Reader - Emission Test Scanning Tool -... EASY SCAN, READ AND RESET CHECK ENGINE LIGHT, ABS (Brake) CODES & MORE - Innova's 5210 ... THE DEVICE IS GREAT, BUT THE DATA IS BETTER - Innova has best-in-class data to help you ... LIVE DATA FOR MORE ACCURATE DIAGNOSIS - With the Innova 5210 OBD2 browser you can see your ... KNEW YOUR SMOG CHECK RESULTS BEFORE THE STATE DOES - More than just a car check engine... DESIGNED AND SUPPORTED IN THE UNITED STATES - Buy with confidence. Our California-based, ASE certified... Sale INNOVA CarScan Pro 5610 OBD2 car code scanner - bidirectional scan tool and professional OBD2 code... MAINTAINING TOP PERFORMANCE AND SAFETY ON THE ROAD - 5610 OBD2 Scanner helps you easily ... 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