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## Thorton chip tuning instructions

First, you will need to download and install an OBDII diagnostic app of your choice onto your Android device. We recommend OBD AUTO DOCTOR, but here are some other options as well... OBD Auto Doctor (Excellent free app. Optional upgrade to Pro in-app for a fee) Torque Lite (Very popular. Lite version is free) OBD Fusion (excellent paid 3rd party app) Dash Command (excellent paid 3rd party app) To find the app on your Android device, search OBD Auto Doctor (or the name of the app you choose) on Google Play. Click Download then Install. Plug in the iCar2 Bluetooth adapter into your vehicle's OBD2 port. The OBD2 port is usually located under the instrument panel (dashboard) on the driver's side near the steering wheel. LED Indicators on the adapter: RED: Power indicator. Shows that the adapter is receiving power. BLUE: OBD indicator. Indicates that the adapter is communicating with the vehicle. GREEN: Bluetooth indicator. Indicates that the adapter is connected via Bluetooth to your device. Enable Bluetooth on your Android phone or tablet. Select Bluetooth device "V-LINK" to pair. If required, enter password 1234 or 0000. Configure connectivity settings and connect on the OBD Auto Doctor app (or whichever app you chose). For OBD Auto Doctor, here are the steps... Run OBD Auto Doctor app Click Extras button on the Status page Click Connectivity in the Settings menu to select connection type Select adapter type to Bluetooth. Click Search Bluetooth devices and then choose V-Link Go back to the Status page, click link icon to connect Wait for the adapter to connect to your vehicle. It will take about 30 seconds to complete the connection. Once it is connected, you will begin to see data (ex. Intake Air Temperature) populate in the app under Status. That's it! You're now ready to monitor and diagnose the performance and status of your vehicle. OPTIONAL Upgrade to OBD Auto Doctor Pro (monthly or yearly subscription required). To enable all features of the OBD Auto Doctor app, you can upgrade to the Pro version by following these steps. Launch the app. Once the app is started, navigate to Extras -> Upgrade. Follow the intro and select appropriate subscription period by tapping the Yearly or Monthly. Follow the purchase flow of your phone. As with all Google Play purchases, this purchase will also bind to your Google Account. You can install the app to all your Android devices with a single purchase. Just download the free app from Google Play, launch it and the app should automatically upgrade to the Pro version. It is that simple. You can manage the subscription from the Google Play Store Account view. ANDROID ONLY \*Note that this version is only supported through Bluetooth on Android devices. If you need an additional kit for your iOS device (such as an iPhone) you will need to purchase the WIFI version at and choose WIFI under Connection Type. ANDROID 5.0 OR NEWER OBD Auto Doctor is available for all Android devices having Android 5.0 (Lollipop) or newer. However, the app support for devices running Android version older than 6.0 (Marshmallow) is discontinued. Devices running Android 6.0 or newer continue getting new app updates. As a general guideline, OBD Auto Doctor tries to support at least the last 5 major Android versions. You may need to ensure that the app you are using is compatible with your Android version. NO LED LIGHTING? Check for blown fuses The adapter could be improperly installed. Please remove it from the OBD port and plug it in again POWER SAVE TECHNOLOGY iCar2 BT3.0 will go into sleep mode after 30 minutes of the engine being off to protect the vehicle's battery. Push the wake up button to restart iCar2 BT3.0 without removing it from the OBD DLC port. OBD2 COMPLIANT? 1996 or newer model year vehicles sold in the United States are OBD2 compliant. United States legislation requires all cars and light trucks model year (MY) 1996 and newer to be OBD2 compliant. 2001 or newer model year gasoline vehicles sold in the European Union and 2004 or newer model year diesel vehicles sold in the European Union are also OBD2 compliant. Try connecting having the ignition key in the 'ON' position but the engine not running. If that does not work, try connecting while the car is parked and the engine is running. Check your Bluetooth settings to confirm that you are connected to the adapter. iCar BT3.0 supports the standard OBDII parameters (PIDs) as defined in SAE J1979 AUG2014 (OBD AUTO DOCTOR app). The actual list of available parameters is vehicle specific depending on which sensors your vehicle is equipped with. Different OBDII apps might support a different list of parameters and sensors. Please refer to: for a full list. Supported Parameters (NOT FULL LIST) PID Sensors \$01 Monitor status since DTCs cleared \$02 DTC that caused required freeze frame data storage \$03 Fuel system status \$04 Calculated load value \$05 Engine coolant temperature \$06, \$08 Short term fuel trim \$07, \$09 Long term fuel trim \$10 Air flow rate from mass air flow sensor \$11 Absolute throttle position \$0A Fuel pressure \$0B Intake manifold absolute pressure \$0C Engine RPM \$0D Vehicle speed sensor \$0E Ignition timing advance for #1 Cylinder \$0F Intake air temperature For help and support with using your Bluetooth performance kit adapter, contact us at: For assistance using a specific OBDII Diagnostics app, you can also contact the app developers directly. Simply search for their contact information and/or website online. OBD Auto Doctor app support: First, please check the Frequently Asked Questions online from www.OBDAutoDoctor.com/faq. Second, please try the following: Select Extras from the bottom navigation bar. Then, select Help. Enable troubleshooting at the bottom of the view. Go back to the Status view and try to connect again. After possible failure, navigate back to Extras -> Help Press the Send log button to open email composer and send the log. In addition, you might want to try selecting the OBD protocol manually from the app settings (Extras -> Connectivity -> OBD-II protocol). Please give us feedback on this learning guide, so we can provide content that's truly useful and helpful.

You can send feedback to [email protected]. Thanks! More Horsepower Increased Torque Faster Acceleration No Installation. Just Plug & Play Lifetime Warranty Increased MPG! 30 Day Trial - Make -AcuraAlfa RomeoAston MartinAudiBentleyBMWBuickCadillacChevroletChryslerCitroënDaewooDodgeEagleFerrariFiatFordGeoGMCHondaHummerHyundaiInfinitiIsuzuJaguarJeepKiaLamborghiniLand RoverLexusLincolnLotusMaseratiMazdaMercedesMercuryMini CooperMitsubishiNissanOldsmobilePlymouthPontiacPorscheSAABSaturnScionSmartSubaruSuzukiToyotaVolkswagenVolvo 60 Second Installation. No Tools or Wiring Needed. The Thorton Performance chip does not take any special skills to install. Simply plug the chip into your car's OBD2 port, start the engine, and drive to unleash hidden power! Ultimate Horsepower and Torque Gains. When the chip is plugged into your car's OBD2 port, it receives real-time data through the OBD2 connection allowing the chip to study your driving habits and modify signals sent to your vehicles ECU. By safely optimizing functions such as the ignition timing, air to fuel ratios, transmission shifting and fuel maps, the chip module provides the ultimate horsepower, torque and mileage gains. Verified Buyer Hello, I purchased a chip for my 2017 Porsche Panamera 4S that I bought used with 60,000 miles on it. This was my first Porsche and the car is a base model with the 2.9 liter V6 and the performance and particularly the throttle lag was very disappointing. All that changed when I purchased the stage 3 chip from Thorton! Install was as easy as pie and the performance gains have been impressive, all for \$99! Very impressive, thanks for providing such a good product. Verified Buyer Ordered the chip for my 2016 BMW 328i, and right away I noticed a slight faster throttle response, a slight gain in gas mileage (3+ miles), but not so much in the horsepower department, but overall, it's a great buy, I'm satisfied with the product. Verified Buyer Added the Stage 3 chip to my 2019 Tundra 5.7 in addition to an Injen Cal, Injen Black Edition Pedal Pro, Shortened Dual Exhaust with two Flowmaster FX 3" mufflers. The Stage 3 chip is exactly what I needed to pull the max power from these mods. Now my Tundra will run with a Raptor in the first three gears no problem. The power curve is insane, it leave the line hard and pulls all the way to redline strong and rolling it on at freeway cruising speeds surprises cars and trucks all day. Just gotta add some headers and who knows what its gonna do. Never had it dyno'd but my ass dyno says 450+hp easy. Thats all my dyno that really matters anyways. Everyone that has been in it is impressed with the improvement. And when you open up a toyota v8 with the right exhaust it sounds nasty in a good way, like no other truck on the road Verified Buyer I just started tracking my mileage by the trip, but before your tuning chip, I was averaging 19.2 total on a '24 4-cylinder. Now it's at 22.4, but it's the first reset. Regardless, I'm happy and fully endorse. FIVE STARS!! @@@ Verified Buyer Wow, outstanding results on my 2016 Nissan Juke Nismo. Throttle response and boost comes on sooo much quicker and through full range of RPM. Still having a hard time believing it works so well! Thanks TCT! For the most part, chip tuning is still misunderstood and may be perplexing to most car owners. Chip tuning consists of adjusting the fuel and ignition maps, as well as [...] Chip tuning is known to boost a car's performance - adding power, and speed, and improving fuel efficiency. It's like an extraordinary chip that you plug into your engine and [...] Chip tuning is a recurring term for car enthusiasts who are all about speed, power, efficiency, and better fuel economy. Commonly referred to as ECU tuning, ECU remapping, and engine [...] First, you will need to download and install an OBD diagnostics app onto your device. We recommend OBD AUTO DOCTOR, but here are some other options as well... OBD Auto Doctor (Excellent free app. Optional upgrade to Pro in-app for a fee) Torque Lite (Very popular. Lite version is free) Dash Command (excellent paid 3rd party app) To find the app on your device, open Google Play Store (for Android devices) or App Store (for iOS devices such as iPad or iPhone) and search for OBD Auto Doctor (or the name of the app you chose). Click Download then Install. Plug in the iCar2 WiFi adapter to your vehicle's OBD-II diagnostics port. The OBD-II port is usually located in or near the dashboard on the driver's side near the steering wheel. LED Indicators on the adapter: RED: Power indicator. Shows that the adapter is receiving power. BLUE: OBD indicator. Indicates that the adapter is communicating with the vehicle. GREEN: Bluetooth indicator. Indicates that the adapter is connected via Bluetooth to your device. Navigate to your phone's Settings > Wi-Fi and make sure Wi-Fi networking is turned on. Wait for the list of available networks to update. Select V-LINK from the list of available networks and wait for connection to the adapter. If required, enter password 1234 or 0000. Configure connectivity settings and connect on the OBD Auto Doctor app (or whichever app you chose). For OBD Auto Doctor, here are the steps... Launch the OBD Auto Doctor app. Select Extras button on the Status page. Select Connectivity in the Settings menu to select connection type. Select adapter type to Wi-Fi (IP address 192.168.0.10 and port number 35000 are automated. Do not change them.) Go back to the Status page, click the connect button (link icon) at the top right corner to connect. Wait for the adapter to connect to your vehicle. It will take about 30 seconds to complete the connection. Once it is connected, you will begin to see data (ex. Intake Air Temperature) populate in the app under Status. That's it! You're now ready to monitor and diagnose the performance and status of your vehicle. OPTIONAL Upgrade to OBD Auto Doctor Pro (monthly or yearly subscription required). To enable all features of the OBD Auto Doctor app, you can upgrade to the Pro version by following these steps: Launch the app. Once the app is started, navigate to Extras -> Upgrade. Follow the intro and select appropriate subscription period by tapping the Yearly or Monthly. Follow the purchase flow of your phone. As with all Google Play (or App Store purchases) this purchase will also bind to your Google (or Apple) Account. You can install the app to all your Android (or iOS) devices with a single purchase. Just download the free app from Google Play (or App Store), launch it and the app should automatically upgrade to the Pro version. It is that simple. You can manage the subscription from the Google Play Store (or App Store) Account view. ANDROID 5.0 OR NEWER OBD Auto Doctor is available for all Android devices having Android 5.0 (Lollipop) or newer. However, the app support for devices running Android version older than 6.0 (Marshmallow) is discontinued. Devices running Android 6.0 or newer continue getting new app updates. As a general guideline, OBD Auto Doctor tries to support at least the last 5 major Android versions. You may need to ensure that the app you are using is compatible with your Android version. IOS 10.0 OR NEWER OBD Auto Doctor works on all iOS devices (iPhone & iPad) with iOS version 10.0 or newer. This includes iPhone 5, 5c, 5s, 6, 6 Plus, 6s, 6s Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS Max, XR, 11, 11 Pro, 11 Pro Max, and several iPads. Support for new models will be added after they are released. OBD2 COMPLIANT? Your vehicle must be OBD2 compliant to use the adapter. 1996 or newer model year vehicles sold in the United States are OBD2 compliant. United States legislation requires all cars and light trucks model year (MY) 1996 and newer to be OBD2 compliant. 2001 or newer model year gasoline vehicles sold in the European Union and 2004 or newer model year diesel vehicles sold in the European Union are also OBD2 compliant. POWER SAVE TECHNOLOGY The iCar2 Wi-Fi adapter will go into sleep mode after 30 minutes of the engine being off to protect the vehicle's battery. Push the wake up button to restart your iCar2 Wi-Fi adapter without removing it from the OBD diagnostics port. NO LED LIGHTING? Check for blown fuses. The adapter could be improperly installed. Please remove it from the OBD port and plug it in again. Try connecting having the ignition key in the 'ON' position but the engine not running. If that does not work, try connecting while the car is parked and the engine is running. Make sure you are connected to the right Wi-Fi network (V-Link). The iCar2 Wi-Fi adapter supports the standard OBDII parameters (PIDs) as defined in SAE J1979 AUG2014 (OBD AUTO DOCTOR app). The actual list of available parameters is vehicle specific depending on which sensors your vehicle is equipped with. Different OBD2 apps might support a different list of parameters and sensors. Please refer to: for a full list. Supported Parameters (NOT FULL LIST) PID Sensors \$01 Monitor status since DTCs cleared \$02 DTC that caused required freeze frame data storage \$03 Fuel system status \$04 Calculated load value \$05 Engine coolant temperature \$06, \$08 Short term fuel trim \$07, \$09 Long term fuel trim \$10 Air flow rate from mass air flow sensor \$11 Absolute throttle position \$0A Fuel pressure \$0B Intake manifold absolute pressure \$0C Engine RPM \$0D Vehicle speed sensor \$0E Ignition timing advance for #1 Cylinder \$0F Intake air temperature For help and support with using your Wi-Fi performance kit adapter, contact us at: For assistance using a specific OBDII Diagnostics app, you can also contact the app developers directly. Simply search for their contact information and/or website online. OBD Auto Doctor app support: First, please check the Frequently Asked Questions online from www.OBDAutoDoctor.com/faq. Second, please try the following: Select Extras from the bottom navigation bar. Then, select Help. Enable troubleshooting at the bottom of the view. Go back to the Status view and try to connect again. After possible failure, navigate back to Extras -> Help Press the Send log button to open email composer and send the log. In addition, you might want to try selecting the OBD protocol manually from the app settings (Extras -> Connectivity -> OBD-II protocol). Please give us feedback on this learning guide, so we can provide content that's truly useful and helpful. You can send feedback to [email protected]. Thanks! Some people swear by it. With new gadgets like this, you will find both skeptical people and fanatics. The latter will swear that they have improved their mpg to miraculous heights while others do not see the same results. This chip is in that category.The advertising is nice and the company makes some really great claims. However, the more horsepower you get, the more fuel you have to use so claiming you get better gas mileage at a higher HP is a bit confusing and contradictory.To learn more about this topic, just continue to read our article. It has the information you want to know about before you rush out and buy this miracle chip. There are more skeptics than there are fanatics and results will vary depending on your engine and driving style.Does Thorton Chip Tuning Work? When you get into modern technology for your vehicle, you really have to be careful. While Thorton seems to be a reputable company, there are many knockoffs of this technology that you may end up with something that only flashes a few lights and does nothing else.According to their website, there are many happy customers who have reported great results in higher MOG as well as higher HP. Outside of their website, the answer is no it does not work.One reason given was that it takes special equipment and trained personnel to alter the performance map in any given engine. It is impossible to do this 'on the fly' through a chip.We are checking the website when we see claims by these review websites that say there are no dyno reports on the Thorton website. There isn't and it is hard to comprehend that adding more fuel to the engine will increase your MPG.The reality is the more fuel you add to get more HP, the lower the MPG as you are using more fuel not less. The other claim that has been refuted is that Thorton said that their chip works on every inline 4, 6, & 8 cylinder motor.Since all engines are built differently, it is impossible to build one chip to handle all the differences and produce the same results. The company seems to have designed its chip and box to look exactly like a known SuperOBD scam chip.That is a big red flag right there. Another is their claim that it will work on any engine no matter if it is a 4, 6, or 8-cylinder model. However, in their answer to this exact question, the company states "Be sure to select the correct Make, Model, and engine of your vehicle when purchasing."Either it is universal or it is not.Is Thorton Chip Tuning Any Good? If you listen to those people who make the claim that they got a boost in MPG and HP, then you would think that the chip is very good. However, those claims may only be results influenced by wishful and hopeful thinking as one does not want to feel like they have been scammed.We are seeing a lot of red flags about this chip on their website. Their web pages are few in number and do not connect to any verifiable data done by objective third parties.Another red flag is their review page. It is almost perfect as it registers a 4.9-star rating with 94% 5-star reviews and only 6% 4-star reviews. Nothing is that perfect and even Amazon records 1 and 2-star reviews even if they are questionable reviews.But in looking at the review web page you would get the idea that this group of 'engineers' found a way to make the perfect product. Then there is this statement on the company's home page- "drive to unleash hidden power!"This is like saying use this code to unlock hidden messages in the Bible. Where is this hidden power and why can't legitimate car makers find it and unleash it for their customers?One would think that if there was hidden power in your engine, those carmakers would unleash it as it would bring them far more customers than they have right now.Another red flag is why do all 3 levels of the chip look exactly the same? It is something worth investigating.Reviews on Thorton Chip Tuning The reviews you read will depend on which website you go to. If you only read the reviews on the Thorton website, you will feel so good that you won't wait and order your chip before finishing the review page.Those reviews are so sugary, you will get a few cavities in your teeth. When you go to actual review pages and one is found here and another is found here, you will find a totally different story.Mixed reviews are found in this discussion forum. The Thorton website reminds us of the many MLM websites we have seen over the years. Lots of hype, lots of positive and unrealistic claims, and lots of flashy designs, graphs, etc.Yet, no substance and no legitimate studies to back up their word. We have seen websites like this for many years and no one has ever produced any data that verify any claim the company or their onsite reviewers make about the performance of the product.This is a big red flag as why should anyone take the word of the company that wants to make money off of you? They have to have more to prove their word is reliable and honest and this company does not provide it.Then why would you take the word of reviewers on their website when those reviewers are only reshaping the same claims made by the company and nothing constructive or critical is said? It is all repetitive nonsense that the company has already said on its home page.There is no sense to do either especially when the claims go against normal engineering facts.How To Install a Thorton Chip According to the company website, this is just a plug N play chip. You keep your engine off and plug it into the OBD2 port and it starts to work right away. Here is what the company has to say about this installation:"Once our performance tuning chip is plugged into your OBD2 port it starts remapping your Electronic Control Unit(ECU)."" Our chip does not permanently change any factory settings. To change back simply unplug the tuning chip from the OBD2 port.""60 Second Installation. No Tools or Wiring are Needed. The Thorton Performance chip does not take any special skills to install." This last one we will agree with as it probably does not take any special tools or skills to plug in a chip.The other two statements, well, take them with a large grain of salt. One has to wonder why the automakers did not guard against this installation when they made their ECU units since it will make them look bad.These chips are supposed to have been around for some time and using common sense one would think the automakers would either tap into this hidden power by now or stop third-party companies like Thorton from developing products to do what they do not do.Thorton Chip Tuning Install Tips As far as we can tell, the only tip you need is to make sure the engine is turned off before you plug in this chip. As you just read, you do not need special skills, special tools, or even special hand positions to install this chip.It goes into the port like you would plug in a toaster to a wall outlet. The company says: "Tuning chip will adjust itself to your vehicle's engine, and your driving habits and continues to remap the ECU for optimal performance and fuel consumption."We would like to know how it does that especially since this chip is not very large. Unfortunately, the company does not provide any data on how this chip is programmed to quickly change your ECU's mapping and miraculously lets it return to default settings when you unplug it.There is just too much missing in formation and other data to believe this chip is the miracle worker the company says it is. One person said: "There are lots of variables..... it depends on the engine, vehicle, and the goals of the intended tune."That is not what the company says about its product.Some Final WordsIf you want to try this chip out, start with the level one option. That way you will only lose \$30. We say that because despite the advertised lifetime warranty, here is what the company says about returns- "Our policy lasts 30 days. If 30 days have gone by since your purchase, unfortunately, we can't offer you a refund or exchange."Order at your own risk because nothing smells right about this chip or company. It is more smoke and mirrors than anything else.