

PULSAR

INLINE CONTROL MODULE 



Jeep® EcoDiesel

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Pulsar XT Mobile App

Download Instructions

This product requires a Mobile App to function correctly.

Scan this QR code or visit the link below to find download options for your smartphone. You can also find other useful information and instructions about the Pulsar XT on our website.



https://www.holley.com/products/tuners_and_programmers/inline_tuning_modules/pulsar_xt/

Read Me

Safety Warning & Caution

Throughout this User Manual you will see important messages regarding your safety or the protection of your vehicle. These messages are designated by the words WARNING, CAUTION, or NOTICE.

WARNING

A *WARNING* indicates a hazardous situation which, if not avoided, will result in death or serious injury.

CAUTION

A *CAUTION* indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.


NOTICE

A *NOTICE* indicates a condition that could cause damage to the product or your vehicle.

NOTE

A *NOTE* is a step or reminder that is important to remember when installing or using the product.

The product you have purchased is a high-performance product. As such, it does present some risks of which you should be fully aware. Do not use this product until you have carefully read the following safety information and the Owner Agreement.

 WARNING: *Prior to use, read the User Manual. Misuse of the device could result in traffic accidents, death or serious injury, and/or damage to your vehicle. HOLLEY IS NOT RESPONSIBLE FOR AND SHALL HAVE NO LIABILITY TO YOU FOR ANY CLAIMS ARISING OUT OF OR RELATING TO ANY MISAPPLICATION OF THE DEVICE, CUSTOM TUNES, IMPROPER USE OF CALIBRATIONS, MALFUNCTION OR LACK OF LEGAL COMPLIANCE FOR CUSTOM PROGRAMS CREATED BY THIRD PARTIES.*

Safety Guidelines



Before using device, read and understand the user manual, including these additional safety instructions. Failure to do so could result in DEATH or SERIOUS INJURY.

- Do not exceed legal speed limits on public roadways. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
- Use any enhanced speed capabilities of this product only in closed circuit, legally sanctioned racing environments expressly for this purpose. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
- Do not operate the device while driving. Distracted driving could result in traffic accidents, death or serious injury, and/or damage to your vehicle.
- Always perform all adjustments or changes while stopped. Changing a setting while driving can interfere with your attention to roadway conditions and could result in injury or vehicle damage or both.
- Do not stack products. “Stacking” performance-enhancing devices or other improper installation can cause power train failure on the road. Other products may have features incompatible with your device. Follow all installation and operating instructions.
- Some modifications may affect other parts of your vehicle. For example, if you remove/adjust the speed limiter in your vehicle, be sure your tires and other components are rated for the increased speeds they will have to withstand. Not doing so can lead to loss of vehicle control. Modify the speed limiter only for use in closed circuit, legally sanctioned racing environments, not for use on public roadways.

NOTE: The stickers included in some products apply to products that have recieved CARB exemption for emissions compliance.

This product may meet the emissions compliance requirements of the California Air Resources Board and Federal Environment Protection Agency. If so, it is legal for sale and use on pollution-controlled vehicles operated on public streets and highways. The device must be installed and operated according to the instruction provided in this user manual. Included with these compliant products is a sticker for you to keep in your vehicle. You can either adhere it somewhere on the vehicle (e.g., the inside end of driver’s door) or simply store it in your glove box. The purpose of these stickers is to inform anyone who may have questions regarding the use of this product and how it affects emissions. For example, it would be something to show an emissions technician if questioned when taking your vehicle in for an emissions check to let him/her know the product is CARB emissions compliant.

FCC & Industry Canada Compliance

MODEL: Parallax FCC ID: 2AA9B05 IC: 12208A-05

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

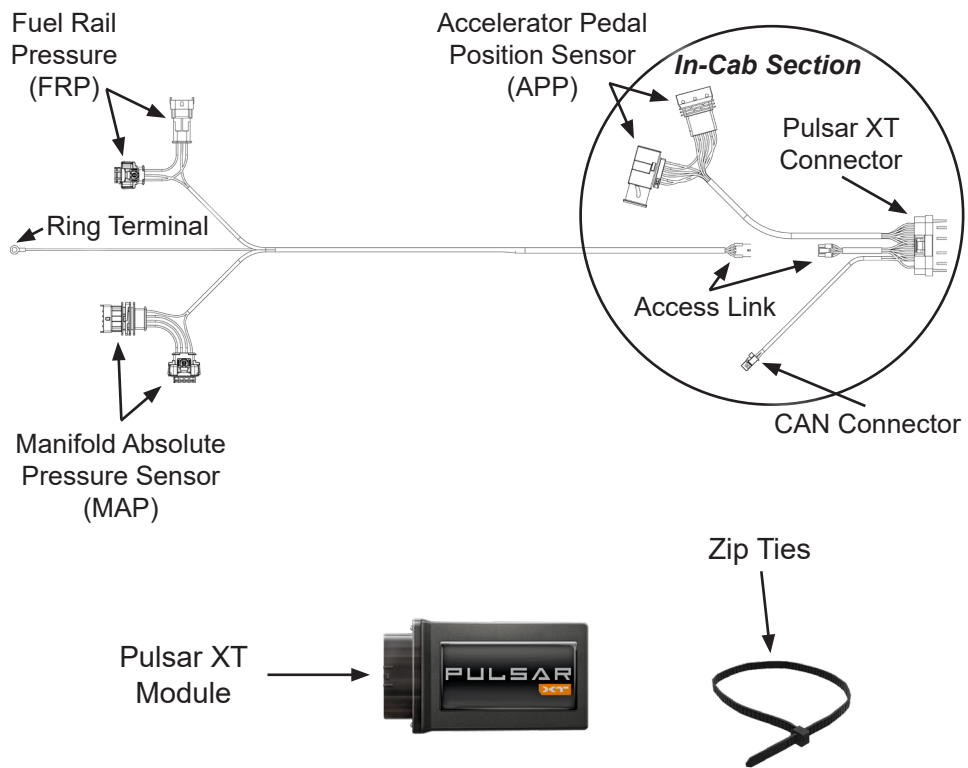
Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnememnt.

Installation of Pulsar XT Jeep® EcoDiesel

Materials



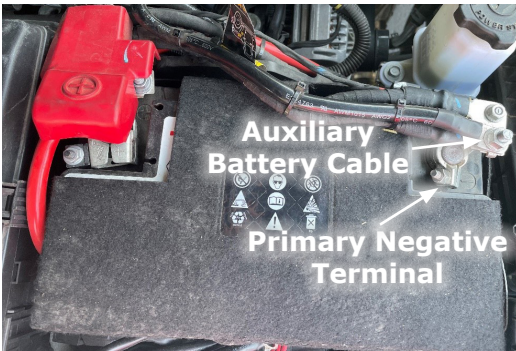
Required Tools

- 10mm and 13mm Sockets/Wrench
- Pick Tool
- Flat Head Screwdriver

Pulsar XT Installation

STEP 1 - Disconnect the negative terminal on the battery using a 10mm socket/wrench. Then, disconnect the auxiliary battery cable connected to the negative terminal using a 13mm socket/wrench.

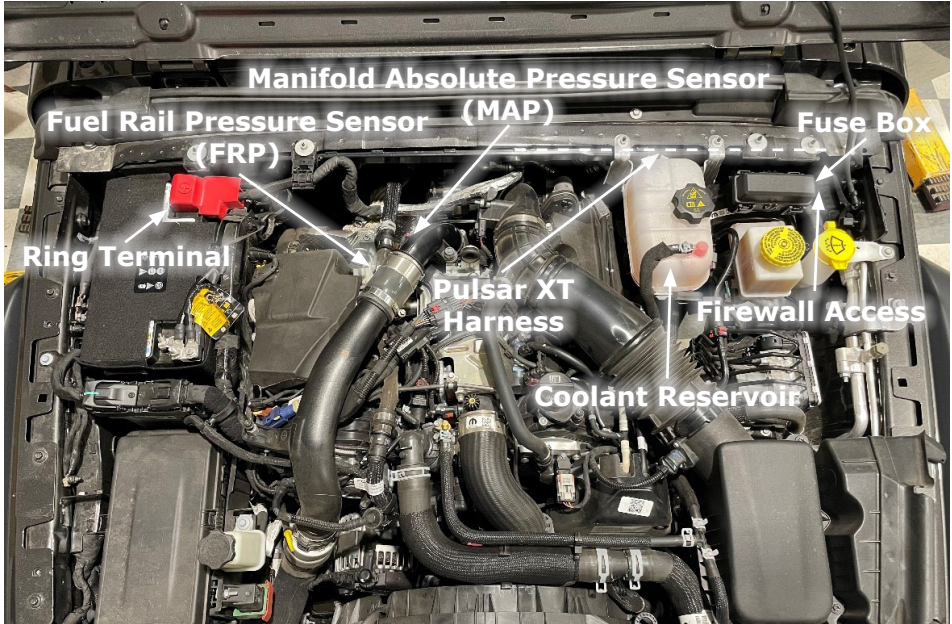
⚠ CAUTION: *Ensure both battery cables are disconnected, failure to do so may cause DTC's.*



STEP 2 - Using a 10mm socket and wrench, remove the engine cover by removing the two bolts shown below. Lift up the front of the engine cover, then pull it away from the back-plastic post and set it aside.

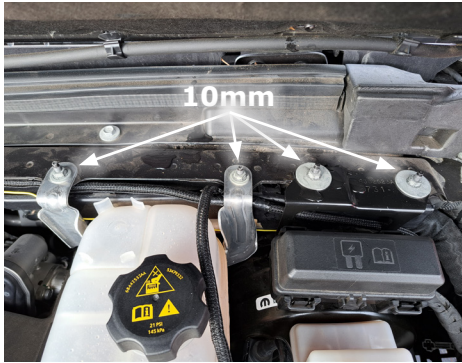


Pulsar XT Installation Cont'd



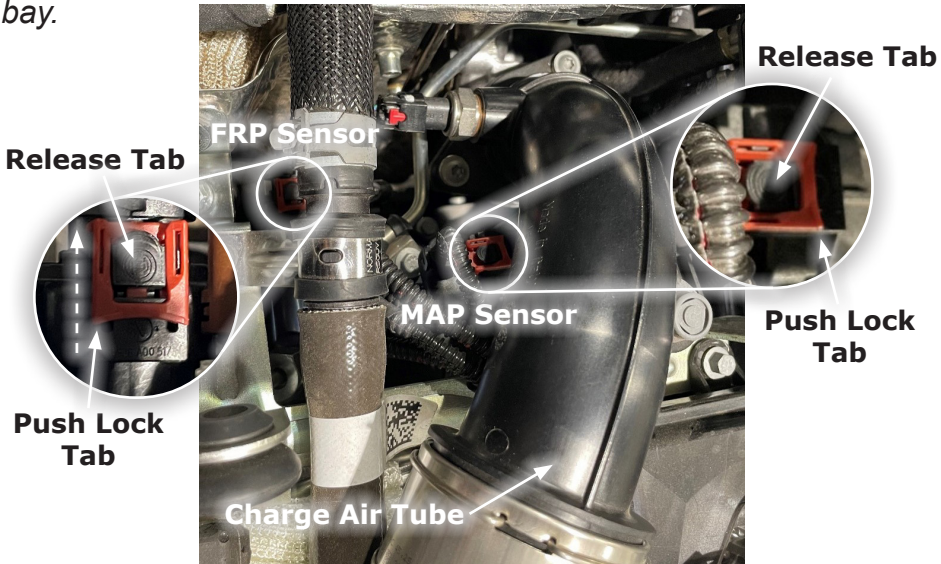
STEP 3 - Before connecting into any sensors, remove the 10mm nuts holding the the coolant reservoir and the fuse box, then route the Pulsar XT harness behind the coolant reservoir and fuse box as shown below. Then, lay the harness across the engine bay towards the FRP Sensor, MAP Sensor, and battery.

STEP 4 - Replace the coolant reservoir and nuts once routed as shown, but do not replace the fuse box until instructed later.



Pulsar XT Installation Cont'd

STEP 5 - In turn, disconnect both the MAP Sensor and FRP Sensor by first pushing back on the red locking tab and then pushing in on the release tab. Connect both sensors into the Pulsar XT harness. **NOTE:** Both sensors are located between the charge air tube and battery on the passenger side of the engine bay.



STEP 6 - Route the Ring Terminal alongside the Positive Battery Cable up through the battery terminal cover, then bolt the Ring Terminal to the positive terminal using a 10mm socket wrench.



Pulsar XT Installation Cont'd

STEP 7 - Remove the firewall cap located on the firewall by rotating the plug until it pops out. **NOTE:** *If needed, use a screwdriver to tap one of the ears on the cap until it rotates.*



STEP 8 - After removing the firewall cap, drill a 5/8" hole in the center of the cap, then place it back in the firewall. Route the 8-pin access link into the cab as shown on images. Then, reinstall the fusebox and nuts (from STEPS 3-4).

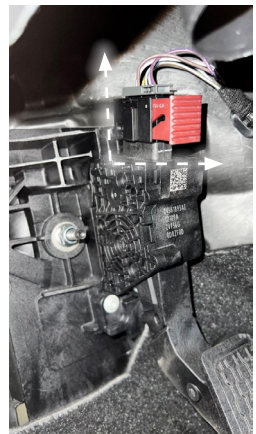
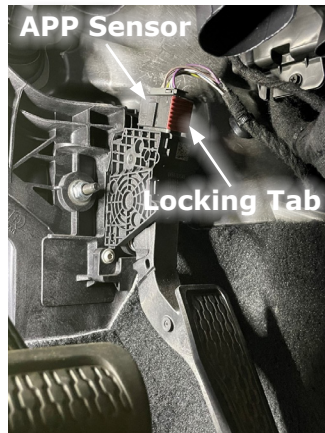


Pulsar XT Installation Cont'd



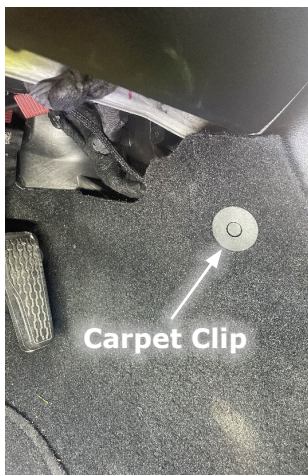
STEP 9 - Disconnect the APP Sensor located above the accelerator pedal by sliding the locking tab away from the sensor (towards the rear of the vehicle). As the lock tab slides out, the sensor will slowly slide up and you will be able to disconnect it once the locking tab is fully released. Then, connect both ends to the Pulsar XT harness.

Note: If needed, use a flat head screwdriver to gently pry the locking tab out.

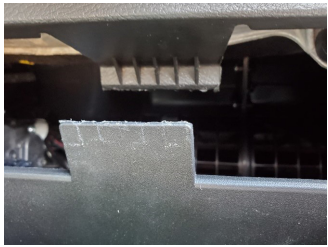
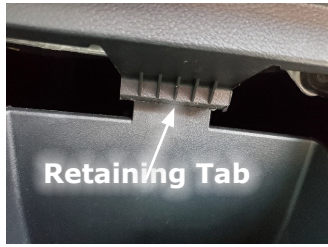


Pulsar XT Installation Cont'd

STEP 10 - Remove the carpet clips on both sides of the transmission tunnel, and pull carpet down to gain access to the center console from both sides. Slide the CAN connector through the center console from the driver's side towards the glove box as shown in images below until you see it on the passenger side.



STEP 11 - Now that the CAN connector is routed to the Passenger Side, lower the glove box to gain access to the CAN junction location. Lower the glove box by pressing up on the retaining tab on the top, inside of the glove compartment. Push up on the tab until the glove box releases and drops down.



Pulsar XT Installation Cont'd

STEP 12 - Disconnect the soft close latch on the left side of the glove box by lifting up until it clicks. Pull the soft close arm out, then the glove box will slide out.



STEP 13 - Now route the CAN connector up behind the glove box frame towards the CAN junction box. Connect the Pulsar XT CAN Connector into any open port in the green CAN junction box located closest to the driver's side.



Pulsar XT Installation Cont'd

STEP 14 - Plug in the main Pulsar XT Harness into the module and tuck the module behind the driver side kick panel. Make sure the module is pushed in enough so it sits snug.



STEP 15 - Use provided zip ties to secure excess cable away from the brake and accelerator pedals, and any hot surfaces or moving components in the cab and in the engine bay.

STEP 16 - Replace the glove box while ensuring the soft close arm is reattached.

STEP 17 - Install the engine cover back on and reconnect both negative battery terminals.

Power Levels

Steering Wheel Controls

The dash display settings will need to be modified prior to viewing Pulsar Power Levels. Enter the Screen Setup Menu and select the center position, then the Audio option. The Pulsar XT utilizes the radio's communication signals to display features. Please refer to your Owner's Manuals for detailed instructions.



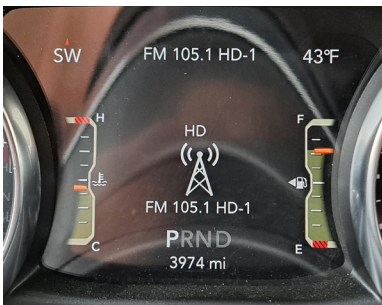
Power Levels	
	Function
SET+	Level Up
SET-	Level Down
RES	Sway Bar Connect/Disconnect
CNCL	View Level

Changing Power Levels

Power Levels 0-5 are displayed on the instrument cluster's display as Audio info.

To change power levels, use the SET+ and SET- buttons while cruise control is off.

If you would like to view which level you are in without changing levels, press CANC and the power level will briefly appear on the display.



Features

Disconnecting/Reconnecting Sway Bar

When enabled in the app, the Pulsar XT allows the user to disconnect the Sway Bar in 2WD, 4WD HIGH, and 4WD LOW. Also, it raises the reconnect threshold from 25mph to 45mph.

NOTE: The factory sway bar button is not usable in 2WD, and will cause a reconnect at 25mph.

DISCONNECT - Switch the instrument cluster's display to the Audio screen. While stopped and with cruise control off, hold the RES button for five seconds. SWAYDISCONNECT will appear on the top of the screen and the Sway Bar disconnect process will start.



NOTE: The factory Sway Bar button will be temporarily disabled while the Sway Bar is disconnected.

RECONNECT - While stopped and with cruise control off, hold the RES button for five seconds. SWAYCONNECT will appear on the top of the screen and the Sway Bar reconnection process will start.



High Idle

The Pulsar XT can be used to temporarily increase or decrease engine idle speed.

With the engine on and in PARK, with foot off the brake pedal, turn cruise control on and press the SET+ button to enable High Idle. Then, use SET+ to start High Idle. Use the +/- buttons to increase or decrease the idle speed.

To turn off High Idle, turn off the Cruise Controls or step on the brake pedal.

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FAQs

Frequently Asked Questions

Question: What should I do if I'm getting codes or a check engine light on my truck?

Answer: This can happen if the truck is not fully powered down before installing the Pulsar XT (battery is not disconnected), or because of improper installation of the Pulsar XT.

Fix 1: Double check all Pulsar XT connections, and make sure all connections are fully making contact.

Fix 2: If codes are still coming up, use the Pulsar XT app to read and clear codes, and then drive the vehicle to see if they come back up. If the codes persist, call tech support.

Question: Can I shift on the fly with the Pulsar XT?

Answer: Yes, this device allows you to shift power levels on the fly using the cruise controls or the Pulsar XT app.

Question: Does the Pulsar XT program the PCM?

Answer: Yes, Pulsar XT has a couple of options that will program the PCM. If you make any changes to these settings, we recommend reverting or reprogramming to stock before going to the dealer.

Question: What is the best way to accurately measure tire size?

Answer: Mark a line on the ground where the center of the tire rests, then drive the vehicle for two full rotations of the tire and mark the spot where it comes to a rest with another line. Measure the length between the two lines and divide by two. Then divide that number by Pi π (3.14159265359).

For additional questions not found in the user guide, call:

Holley Technical Support: (888)-360-3343

Mon - Fri 8:00 am - 5:00 pm MST, Sat 8:00 am - 2:00 pm MST

**To expedite your support call, please have your Vehicle Information,
Part Number, and Serial Number ready prior to calling Technical Support.**

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TUNING GROUP

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