



DINAN
POWER CONTROL UNIT



***G8X M2/M3/M4 &
F9X X3M/X4M***

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Dinan PCU App

Download Instructions

This product requires a Mobile App to function correctly.

To find the download link for your Smart Phone, please scan this QR Code, or visit the link below. You can also find other useful information and instructions about the PCU on our website.




<https://www.dinancars.com/products/software-tuning/engine-tuning/inline-modules/pcu/>

Read Me


Safety/Warning Indicators & Messages

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 NOTE.

WARNING

A  **WARNING** indicates a hazardous situation which, if not avoided, will result in death or serious injury. Damage to the vehicle and/or product may also occur.


CAUTION

A  **CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. Damage to the vehicle and/or product may also occur.

NOTE

A **NOTE** is a step or reminder that is important to follow and remember when installing or using the product. Failure to observe these notes could result in damage to the product and/or vehicle.

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 & CARB/EPA Compliance

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 (CARB) and Federal Environmental Protection Agency (EPA). 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 instructions provided in this user’s manual. Included with these compliant products is a sticker (similar to the one pictured) for you to install in your vehicle. Please clean a flat visible surface under the hood and affix the enclosed CARB EO sticker for SMOG purposes. An example of the need for this sticker would be something to show an emissions technician when taking your vehicle in for an emissions check to let him/her know the product is CARB emissions compliant.



For more information regarding CARB and EPA compliant products, please check out our website: www.holley.com - or mail us via: 1801 Russellville Rd, Bowling Green, KY 42101

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 autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warranty Information

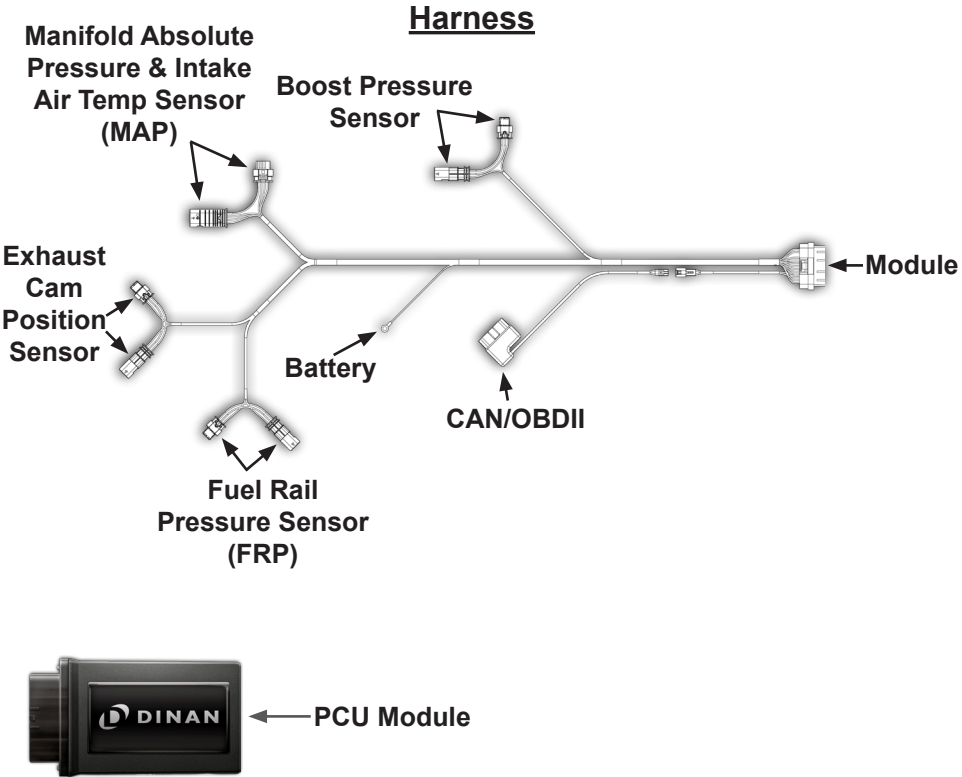
Factory Matching Warranty Coverage

Factory matching warranty coverage (4yr/50k) (if applicable) is contingent on verification of purchase of a Dinan+ PCU variant in the form of a valid proof of purchase at time of submission.

Your warranty is tied to the VIN (vehicle identification number) of the first vehicle the PCU App is used with (see page 2 for App install and usage). Any successive installs on different vehicles (different VINs) will carry no warranty coverage.

Installation of PCU for G8X M2/M3/M4 (Car)

Included Materials

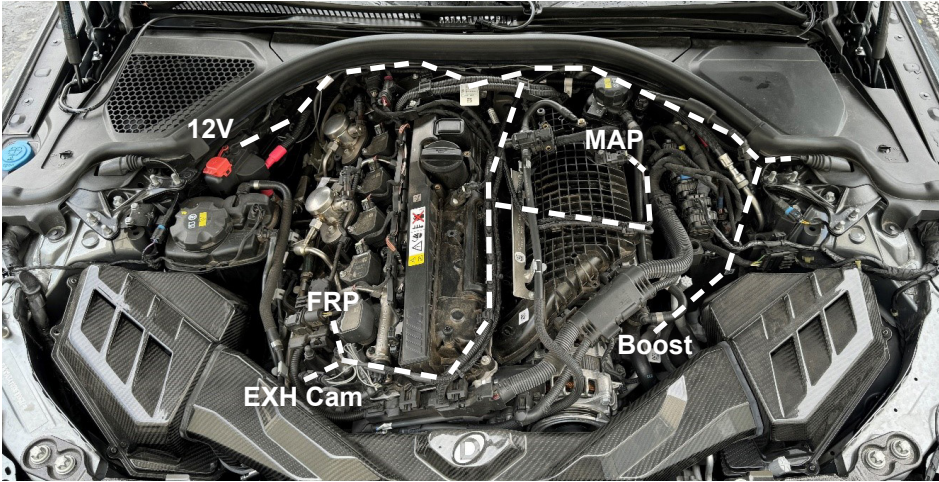


Required Tools

- 6mm, 8mm, 10mm, 13mm, 15mm Socket/Wrench
- Plastic Clip Removal Tool
- Pick Tool
- Precision Knife

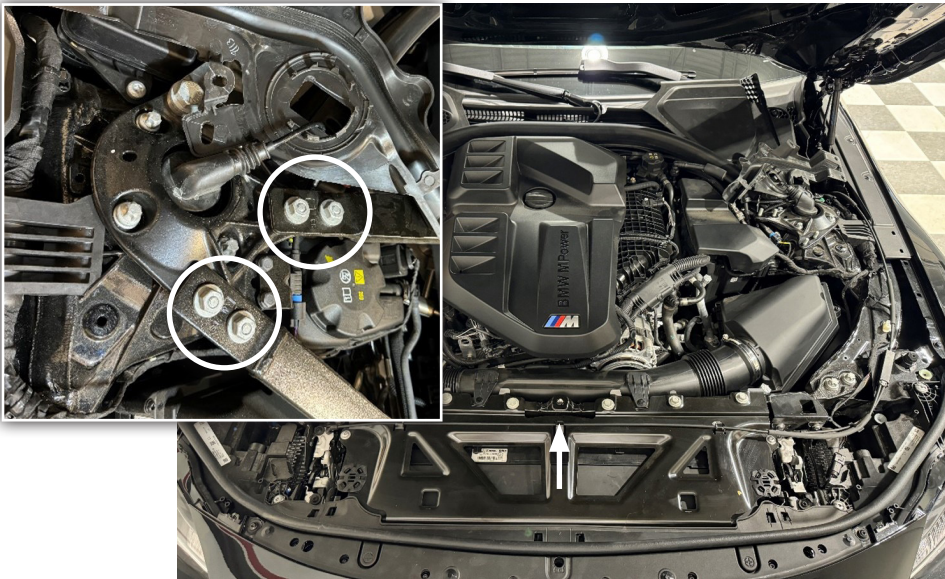
G8X Installation

Harness Routing / Sensor Locations



STEP 1 - Pull the hood latch twice and open the hood, then take the key fob away from the vehicle and wait 5 minutes. To prevent any DTCs, please do not enter the vehicle while any of the sensors are disconnected.

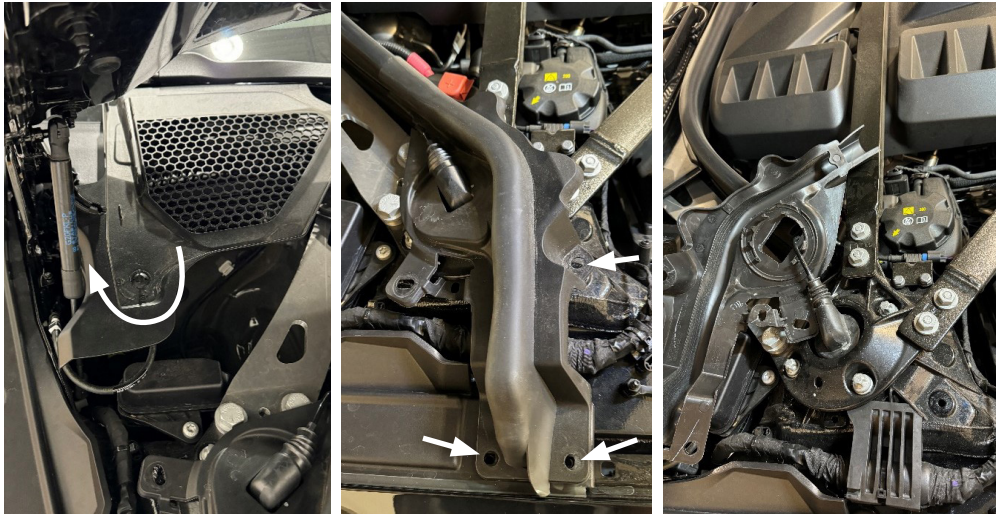
STEP 2 - Remove the strut tower brace by loosening eight 15mm nuts and one 13mm bolt in the front.



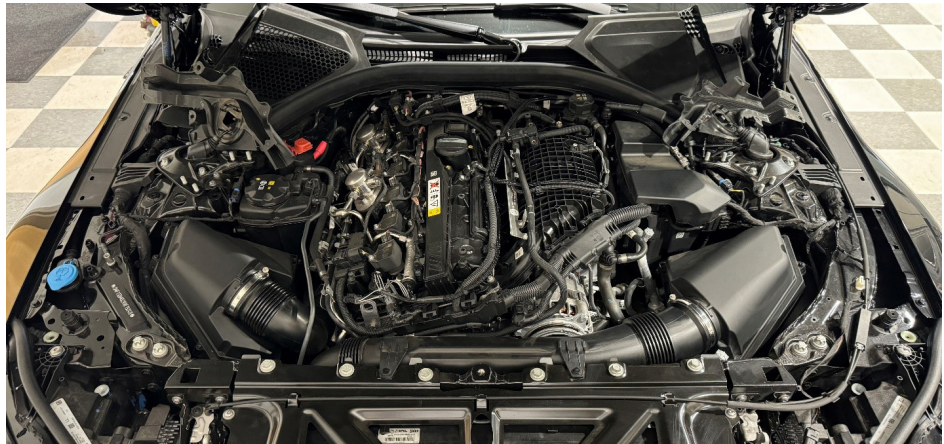
G8X Installation Cont'd

STEP 2a - Some models need the strut tower covers to be set aside in order to access the strut tower brace bolts. If you can access the strut tower bolts immediately, move on to step 3.

To remove the covers, twist the locking tab on the side strut covers to unlock the symbol, then remove the cover and set it aside. Remove the three plastic clips shown below and set the cover aside, being careful not to disconnect the electronic damper connector plugged into the top of the shock.

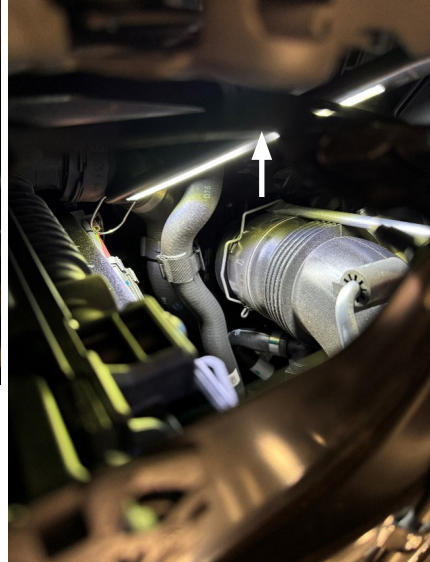
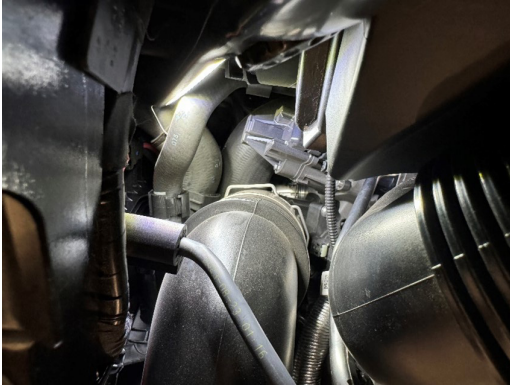
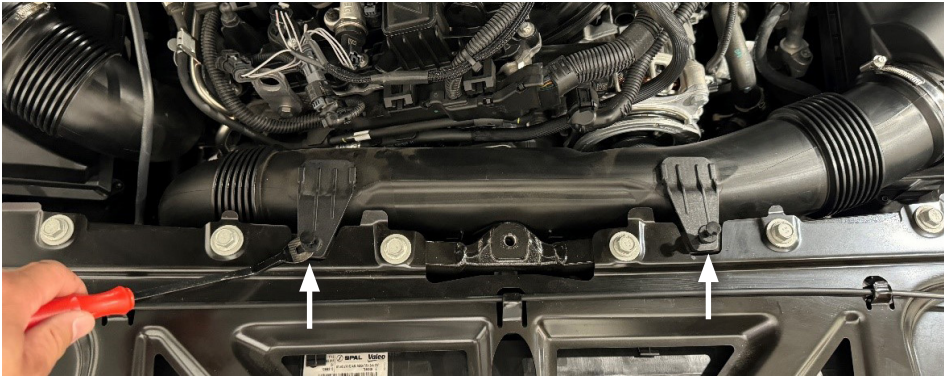


STEP 3 - Lift up on the engine cover to remove it, then set it aside.



G8X Installation Cont'd

STEP 4 - To remove the intake, start by removing the two plastic clips holding the intake tube to the core support. Then lift the driver's side intake box up removing them from the grommets. Using a pick tool, pull up on the wire clips securing the intake tube to the turbo inlet, then set the intake aside.



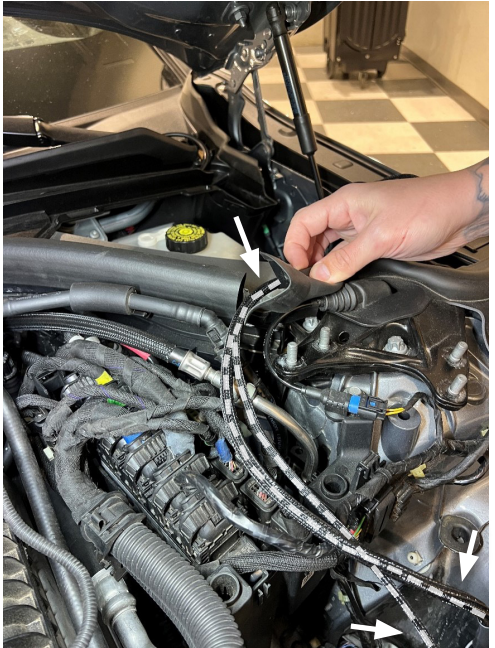
NOTE: If the grommets that mount to the intake come out with the airbox, be sure to remove them and insert them back into the chassis. If an aftermarket intake is installed please follow their instructions for removal.

G8X Installation Cont'd



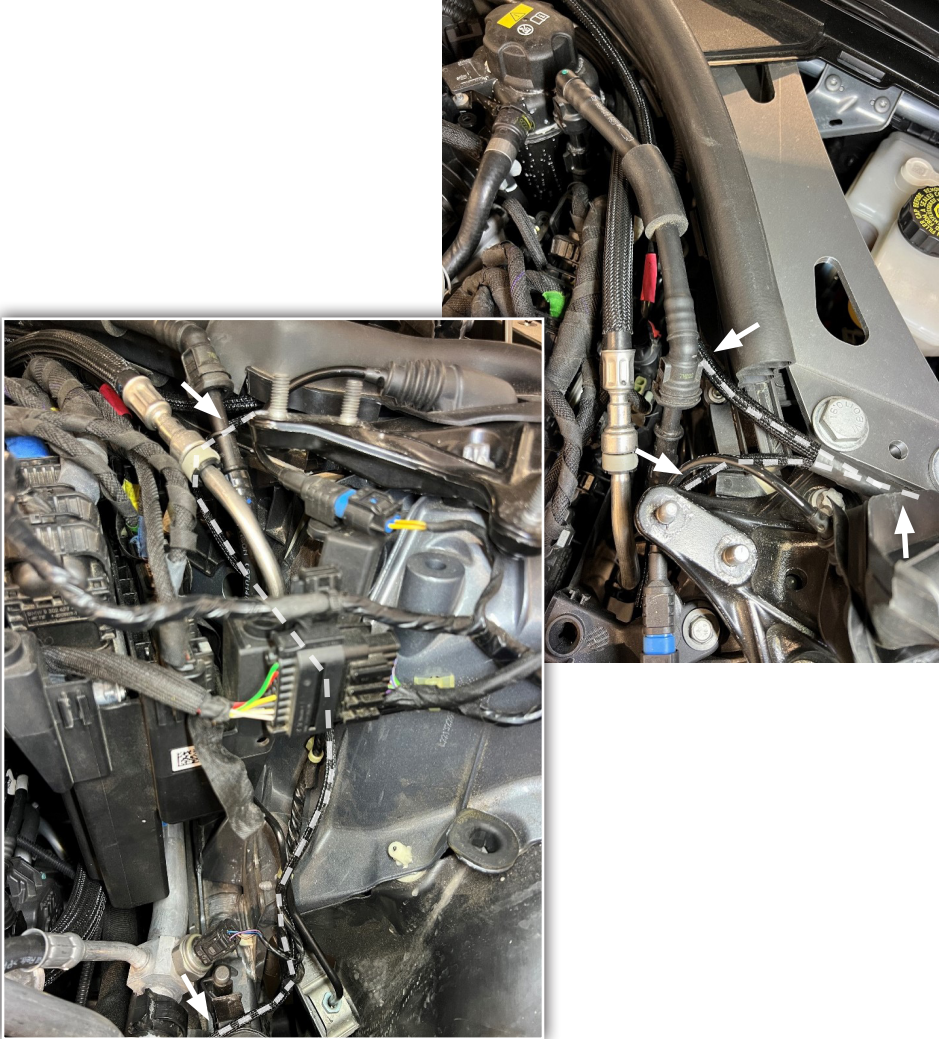
STEP 5 - Twist the locking tab on the driver's side strut cover to the unlock symbol, remove the cover and set aside.

STEP 6 - Connect the PCU harness to the PCU module and place it underneath the strut cover. Run the PCU harness through the opening in the rubber seal shown below.



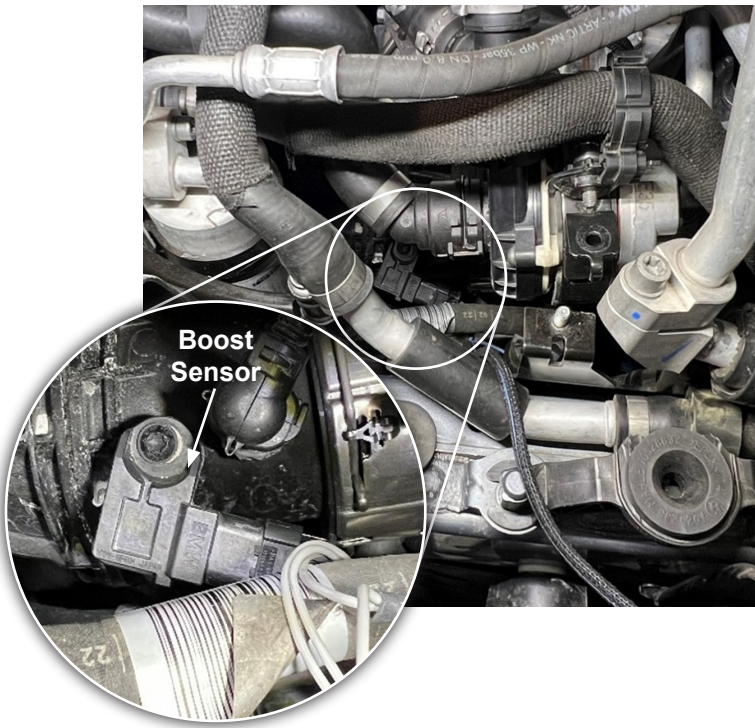
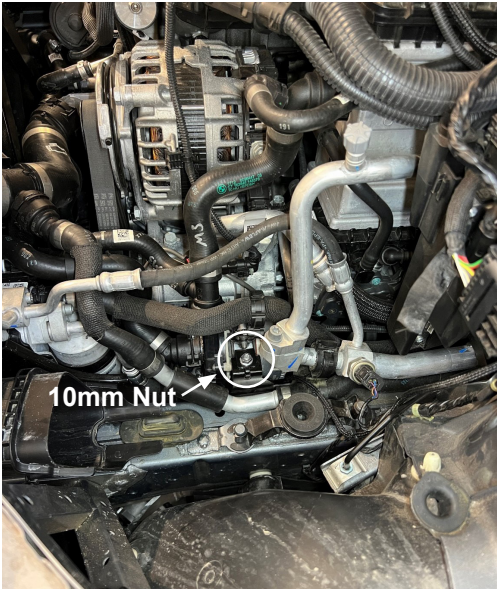
G8X Installation Cont'd

STEP 7 - After routing the PCU harness under the seal, separate the boost sensor harness from the rest of the of the PCU harness. Take the boost sensor and route it behind the DME and down the driver's side strut tower.



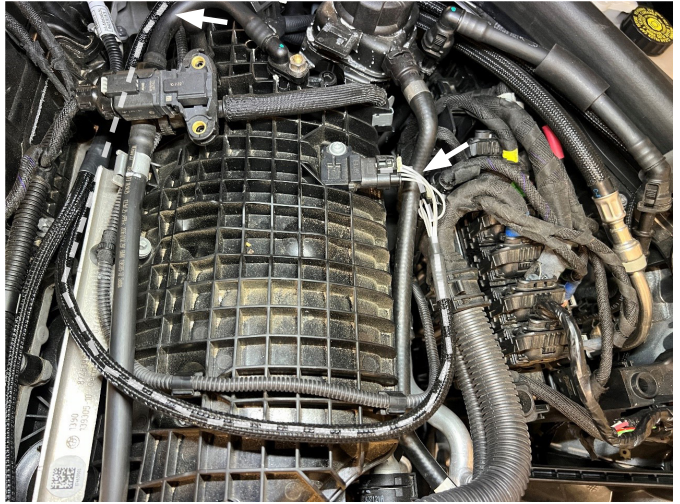
G8X Installation Cont'd

STEP 8 - Starting on the driver's side of the engine bay, remove the 10mm nut holding down the auxiliary water pump to gain better access to the boost sensor. Pull the white tab back then depress it to disconnect the boost sensor pigtail. Connect both connectors to the PCU harness and lock the white tabs back into place. Reinstall the auxiliary water pump to the stud and tighten the 10mm nut.



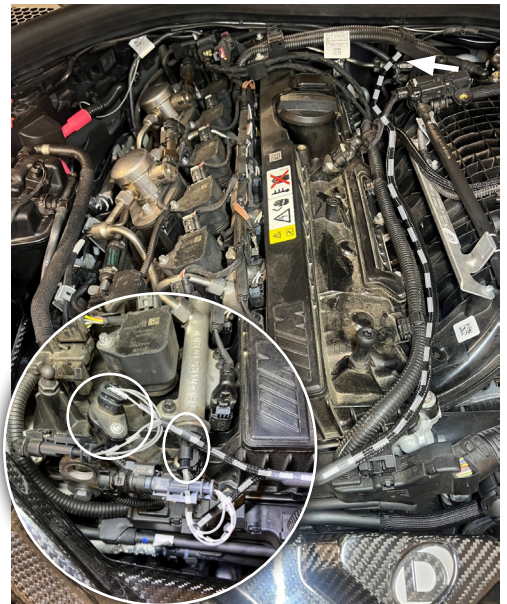
G8X Installation Cont'd

STEP 9 - Next, route the MAP (Manifold Absolute Pressure) sensor harness on top of the intake manifold. Pull the white tab back and depress it to disconnect the MAP sensor pigtail. Connect the PCU harness to both connectors and secure the white tab back in place.



STEP 10 - Route the exhaust cam sensor and FRP (Fuel Rail Pressure) sensor between the valve cover and intake manifold then towards the front of the engine. Disconnect both pigtails and install the PCU harness connections for the respective connections. The connectors will only fit one way.

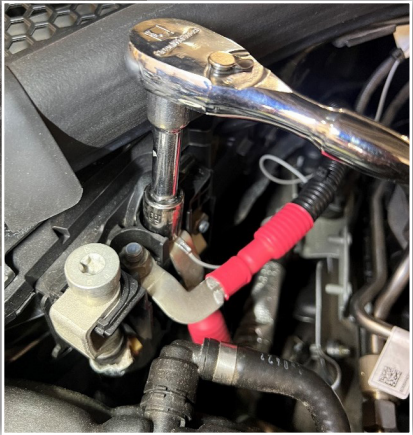
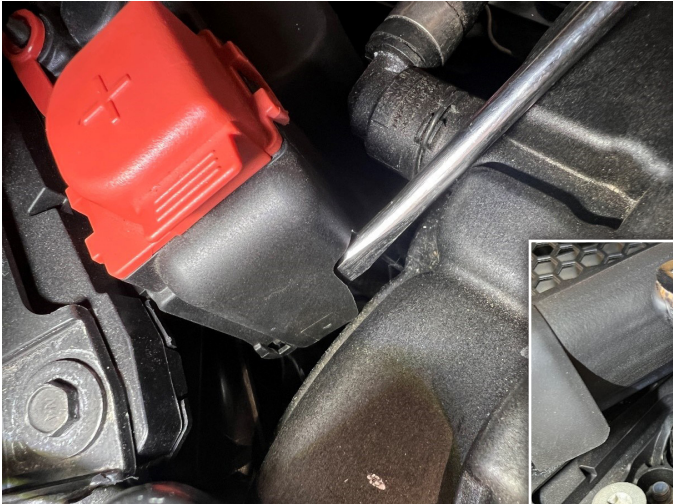
NOTE: *The factory pigtail for the FRP sensor clicks/locks twice. Be sure that the connector is fully seated before continuing with the install.*



G8X Installation Cont'd



STEP 11 - Locate the positive battery post on the passenger side strut tower. Remove the plastic cover by pulling the plastic tabs located on the front and rear outward and lift up. Remove the 13mm nut and install the 12V power wire from the PCU, then replace 13mm nut and plastic cover.



G8X Installation Cont'd

OBDII Harness Installation

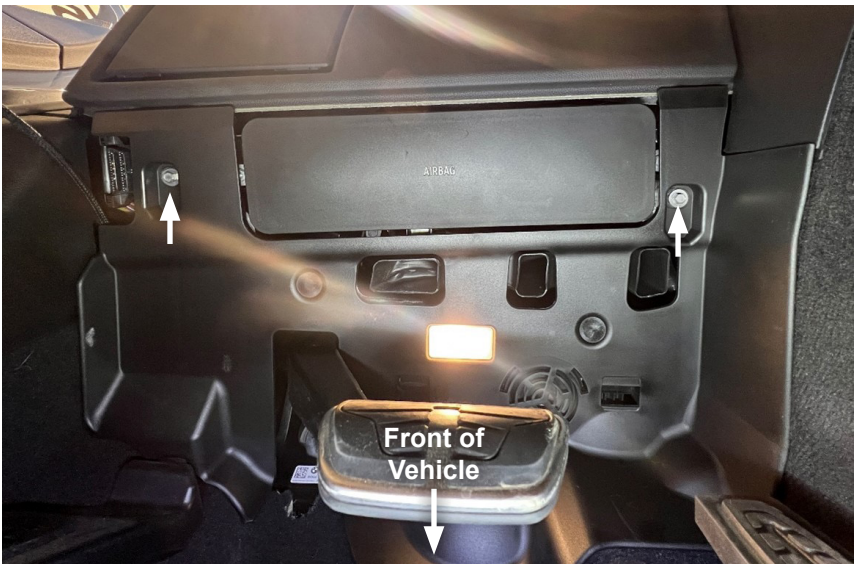
This part is not necessary for the module to function but is required for datalogging and display gauges.

Remove the two 8mm screws holding the panel underneath the dash on the driver's side footwell and lower the panel. If your vehicle is equipped with an automatic transmission, locate the rubber grommet on the firewall left of the brake pedal. Cut a slit in the grommet and pass the green access link connector through to the engine bay.

If your vehicle is equipped with a manual transmission, pull the hood latch grommet into the cabin and pass the green access link connector through to the engine bay. The water drain may need to be removed to access the grommet.

Plug the OBDII connector to the vehicle's OBDII port and replace dash panel and screws. Locate both ends of the access link connectors in the engine bay and connect them together.

NOTE: Once finished installing the OBDII Harness, do not forget to move on to Step 12.



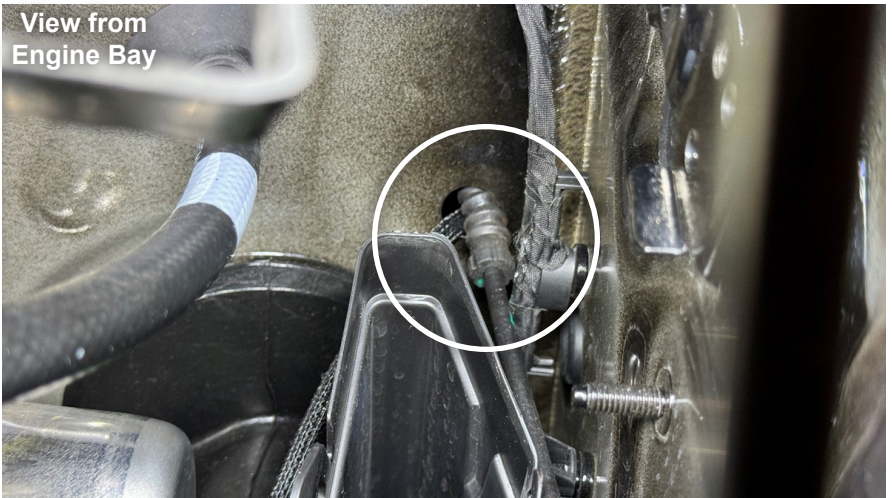
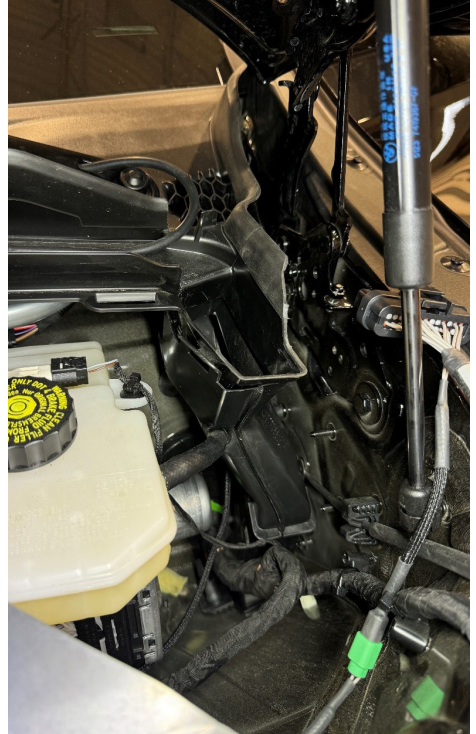
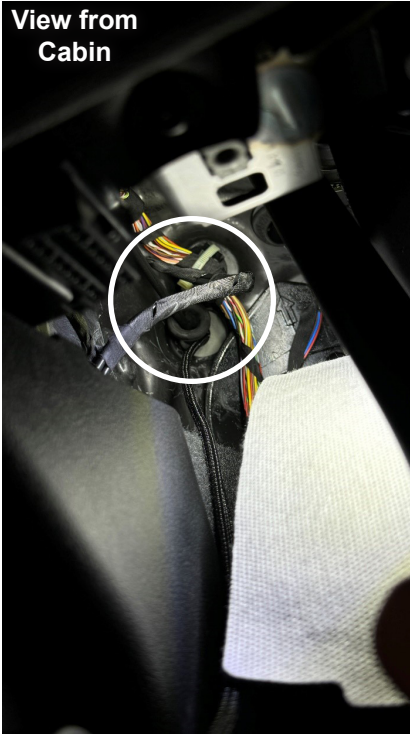
G8X Installation Cont'd

AUTOMATIC Vehicles - OBDII Harness



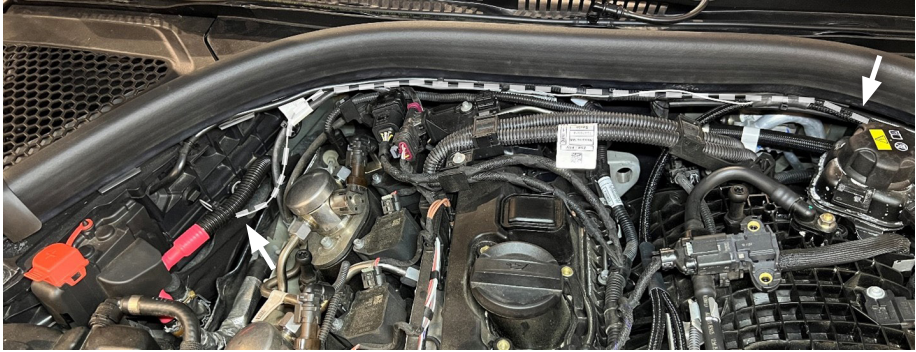
G8X Installation Cont'd

MANUAL Vehicles - OBDII Harness



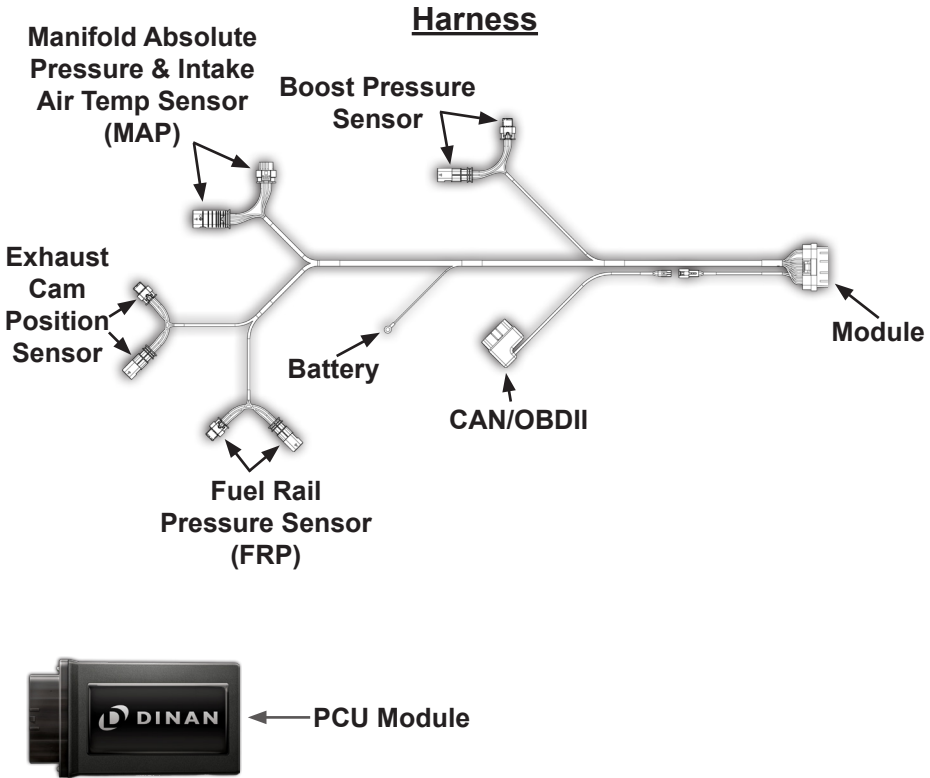
G8X Installation Cont'd

STEP 12 - Secure the harness away from any hot or moving components by tucking them away or by securing them to the vehicle harness using the included zip ties. Secure the PCU module to the vehicle's harness and replace the strut tower cover. Reinstall the engine cover, intake, strut tower brace, and anything else that may have been removed during the install.



Installation of PCU for F9X X3M/X4M (SUV)

Included Materials

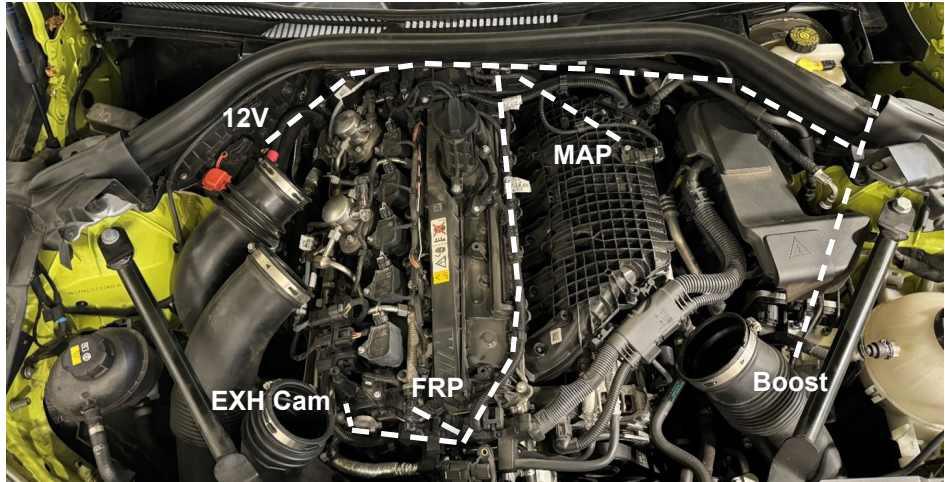


Required Tools

- 6mm, 13mm Socket/Wrench
- Plastic Clip Removal Tool
- Pick Tool
- Precision Knife

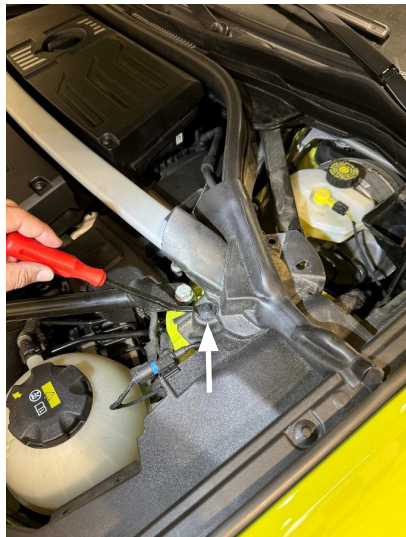
F9X Installation

Harness Routing / Sensor Locations



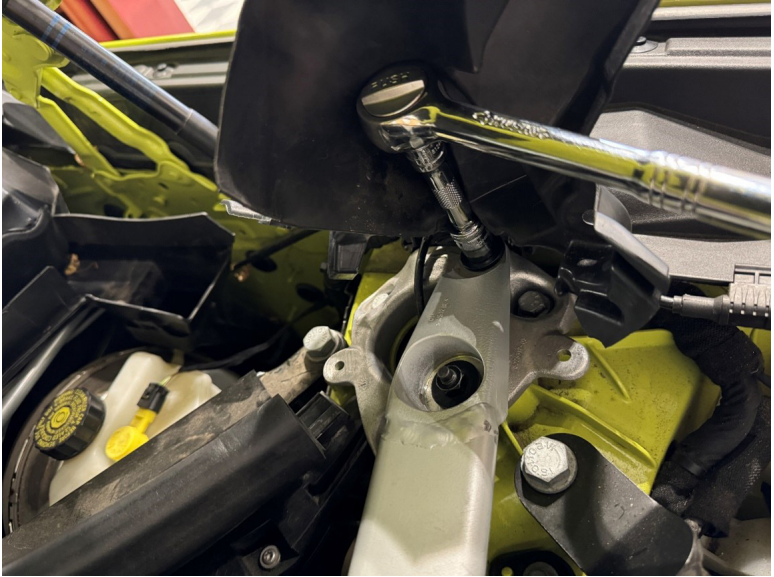
STEP 1 - Pull the hood latch twice and open the hood, then take the key fob away from the vehicle and wait 5 minutes. To prevent any DTCs, please do not enter the vehicle while any of the sensors are disconnected.

STEP 2 - Twist the locking tab on both strut covers to the unlock symbol, then remove the cover and set aside. Next, remove plastic clips securing the strut tower covers.



F9X Installation Cont'd

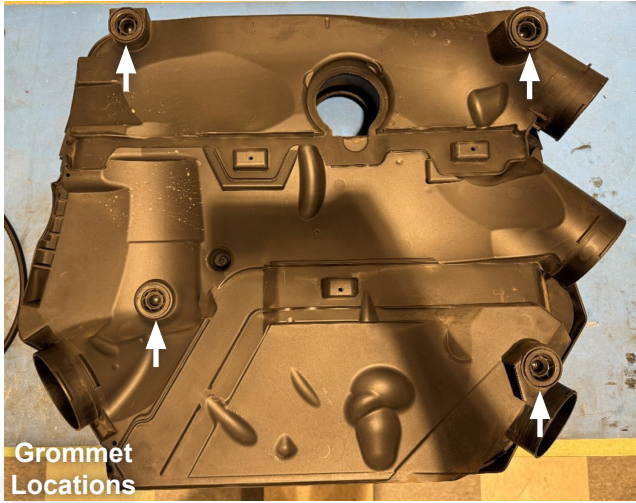
STEP 3 - Remove the strut tower brace by loosening the four 13mm nuts from each strut tower, then set aside.



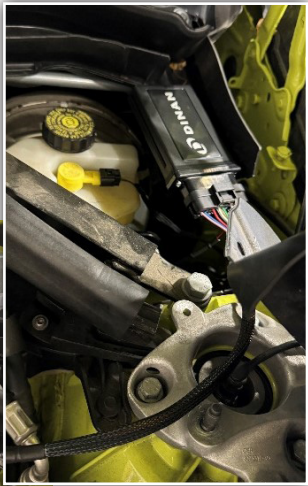
STEP 4 - Loosen the 4 intake and charge pipes from the engine cover using a 6mm socket and wrench. Then lift the engine cover and set aside. There are 4 grommets that secure the engine cover to the engine.



F9X Installation Cont'd

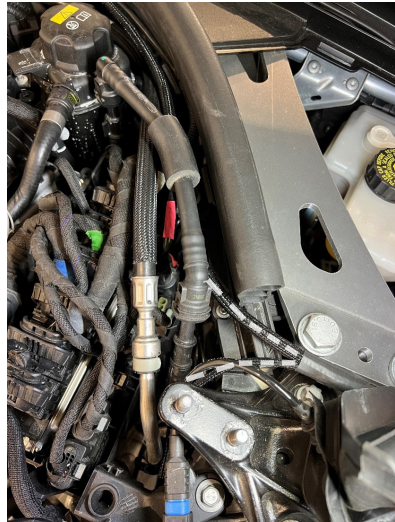


STEP 5 - Connect the PCU harness to the PCU module and place it underneath the strut cover. Run the PCU harness through the opening in the rubber seal shown below. Run the rest of the harness along the firewall.



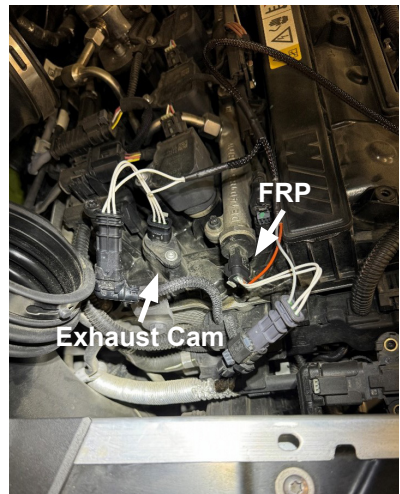
F9X Installation Cont'd

STEP 6 - After routing the PCU harness under the seal, separate the boost sensor harness from the rest of the of the PCU harness. Take the boost sensor and route it behind the DME/ABS module and down the driver's side strut tower.

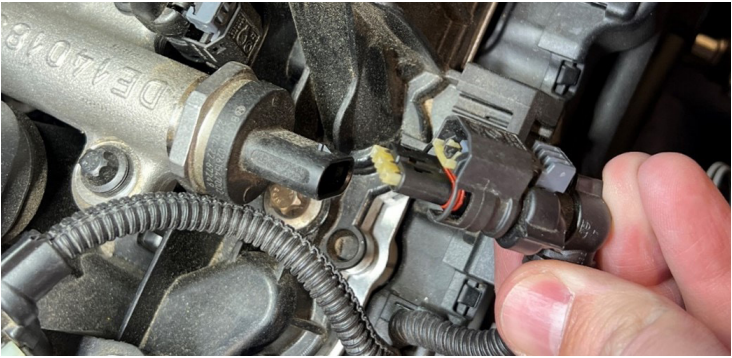


STEP 7 - Route the exhaust cam sensor and FRP (Fuel Rail Pressure) sensor between the valve cover and intake manifold then towards the front of the engine. Disconnect both pigtails and connect the PCU harness to both connectors. The connectors will only fit one way.

NOTE: *The factory pigtail for the FRP sensor clicks/locks twice. Be sure that the connector is fully seated before continuing with the install.*



F9X Installation Cont'd

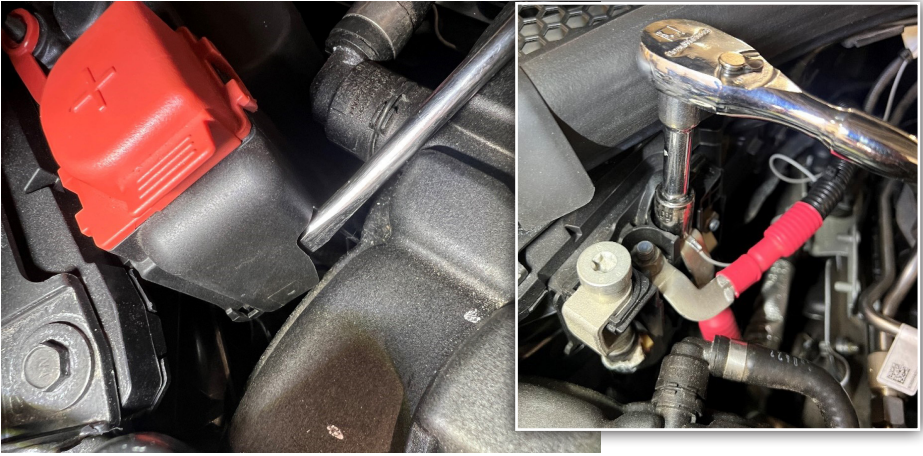


STEP 8 - Next, route the MAP (Manifold Absolute Pressure) sensor harness on top of the intake manifold. Pull the white tab back and depress it to disconnect the MAP sensor pigtail. Connect the PCU harness to both connectors and secure the white tab back in place.



F9X Installation Cont'd

STEP 9 - Locate the positive battery post on the passenger side strut tower. Remove the plastic cover by pulling the plastic tabs located on the front and rear outward and lift up. Remove the 13mm nut and install the 12V power wire from the PCU. Then, replace 13mm nut and plastic cover.



F9X Installation Cont'd

STEP 10 - Remove the driver front wheel to access the boost sensor.

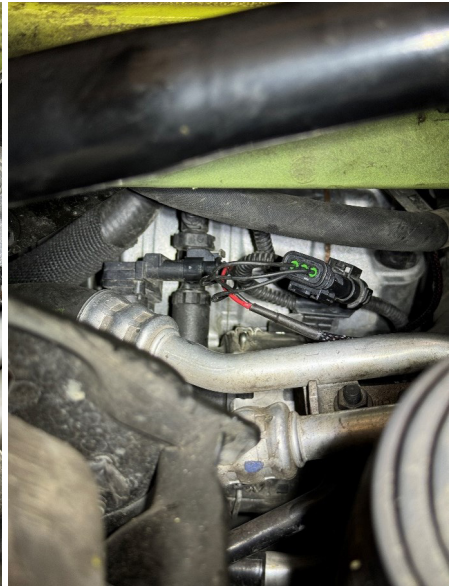
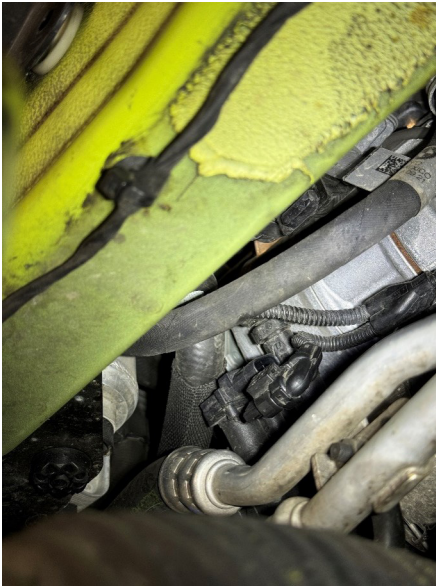


STEP 11 - Remove five 10mm screws to remove the plastic shield and set aside.



F9X Installation Cont'd

STEP 12 - Locate the boost sensor on the charge pipe. Pull the white tab back then depress it to disconnect the boost sensor pigtail. Connect both connectors to the PCU harness and lock the white tabs back into place.



STEP 13 - Replace the plastic shield and the wheel. Torque the lug bolts to 101 lbs/ft.

F9X Installation Cont'd

STEP 14 - Secure the harness away from any hot or moving components by tucking them away or by securing them to the vehicle harness using the included zip ties.

Secure the PCU module to the vehicle's harness and replace the strut tower cover.

Re-install the engine cover, strut tower brace, and anything else that may have been removed during the install.



F9X Installation Cont'd

OBDII Harness Installation

This part is not necessary for the module to function but is required for datalogging and display gauges.

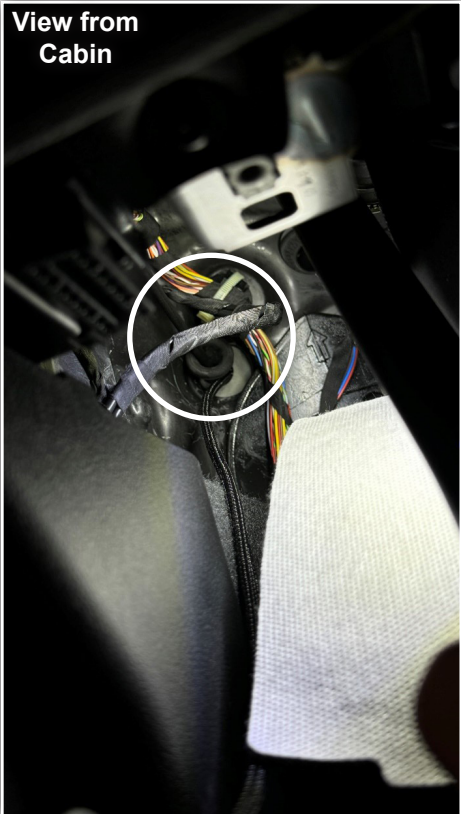
Twist the two plastic tabs holding the panel underneath the dash on the driver's side footwell and lower the panel. locate the hood latch release grommet on the firewall left of the brake pedal. Pull the hood latch grommet into the cabin and pass the green access link connector through to the engine bay.

Plug the OBDII connector to the vehicle's OBDII port and replace dash panel. Locate both ends of the access link connectors in the engine bay and connect them together.

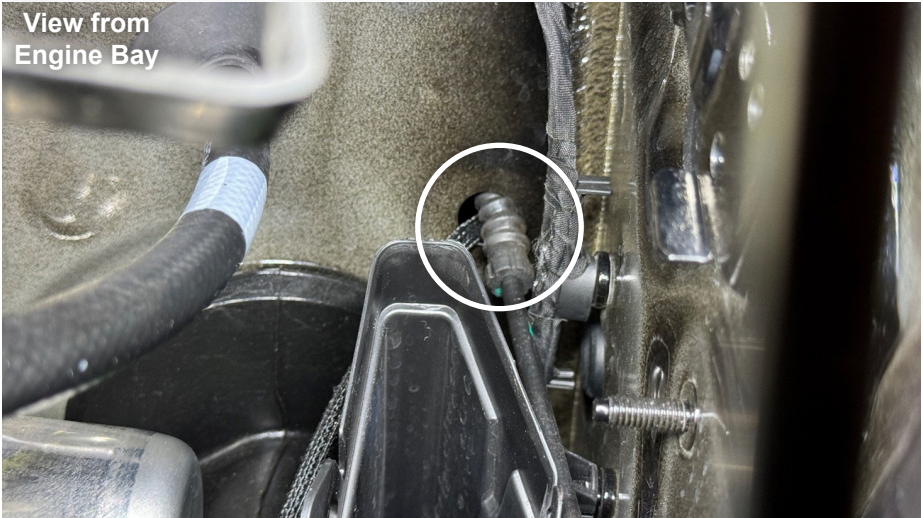


F9X Installation Cont'd

View from Cabin



View from Engine Bay



Frequently Asked Questions

Common Questions & Answers

This product currently has no frequently asked questions. If you have any questions, concerns, or suggestions, please reach out to our technical support team. Contact information and hours can be found on the back of this manual.

WWW.DINANCARS.COM
DINAN IS A BRAND OF HOLLEY TUNING GROUP

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

Holley Technical Support: 1-(800)-341-5480

Mon - Fri 8:00 am - 5:00 pm CDT

**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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