



## **WHIPPLE 2.7/3.5L ECOBOOST COLD AIR KIT MANUAL**

**2018-2025 AND UP FORD F150/RAPTOR/TREMOR**

**WHIPPLE PART NUMBER: EB-8152, EB-8155, EB-8158**



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**CALIFORNIA AIR RESCOURCE BOARD EXECUTIVE ORDER #D-231-142**

## **INTRODUCTION**

Before beginning installation, please read this manual and important notes:

- Please read the installation manual and verify that all items are present. If you are missing hardware or have any questions, please contact your dealer or Whipple.

## **RECOMMENDED TOOLS AND SUPPLIES**

The following items are not included in this supercharger kit and it is strongly recommended that they're used for ease of installation or maximum performance.

Safety glasses, 5/16" nut driver, trim pad tool (for pushpin removal).

## **SAFETY PRECAUTIONS**



### **CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS AND WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION!**

Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personally injury or death. Read each step of the installation manual carefully before starting the installation.

- Always wear safety glasses for eye protection.
- Always work on a clean engine to avoid contamination.
- Place the ignition switch in the off position.
- Always apply the parking brake when working on vehicle.
- Block the front and rear tire surfaces to prevent unexpected vehicle movement.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around fuel system.
- Use chemicals and cleaners only in well-ventilated areas.
- Batteries can produce explosive hydrogen gas which can cause personal injury. Do not allow flames, sparks or flammable sources to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can be caught in rotating or moving parts.



**\*\*NOTICE:** Installation of Whipple products signifies that you have read this document and have agreed to the terms stated within.

*It's the purchaser's responsibility to follow all installation instruction guidelines and safety procedures supplied with the product as it's received by the purchaser to determine the compatibility of the product with the vehicle or the device the purchaser intends to install the product on.*

*Whipple assumes no responsibility for damages occurring from accident, misuse, abuse, improper installation, improper operation, lack of reasonable care or all previously stated reasons resulting from incompatibility with other manufacturer's products.*

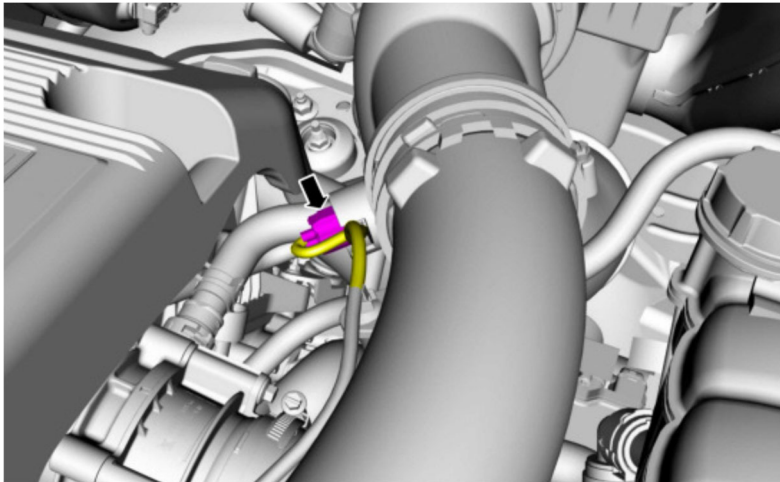
*There are no warranties expressed or implied for engine failure or damage to the vehicle in any way, loss of use or inconvenience or labor reimbursement. This includes merchantability and fitness.*

*The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. Whipple reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.*

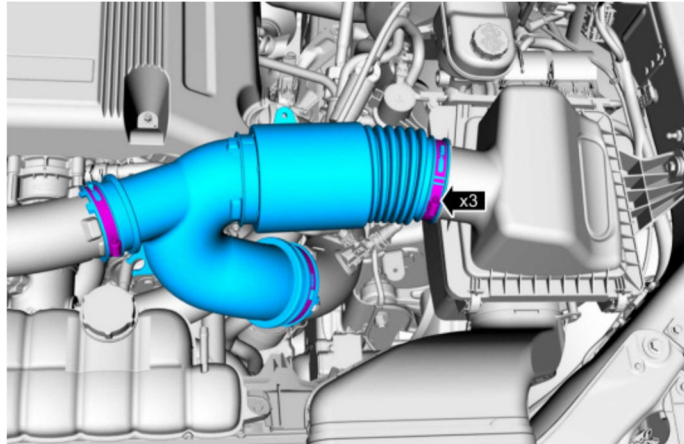
## **INSTALLATION INSTRUCTIONS**

It is strongly recommended that you read through this guide **before** you begin installing the Whipple kit.

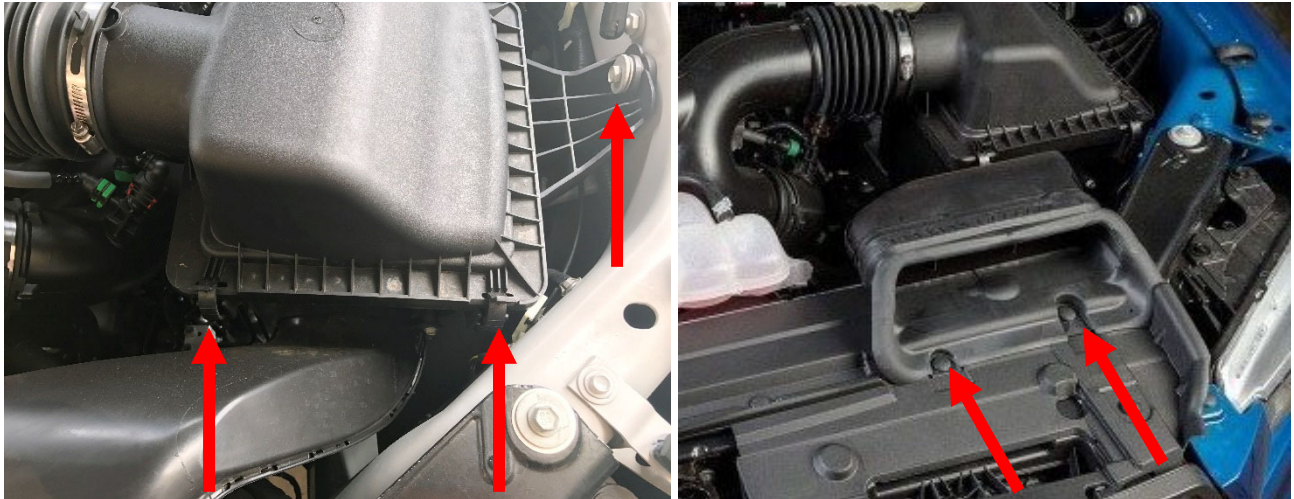
1. Using an air hose, blow off any loose dirt or debris from engine compartment. If really dirty, then steam clean the engine compartment before proceeding to the next step.
2. Disconnect the factory IAT sensor connector by squeezing the tab and pulling back away.



3. Loosen the (3) clamps from the factory air tube and remove the air tube from the engine.



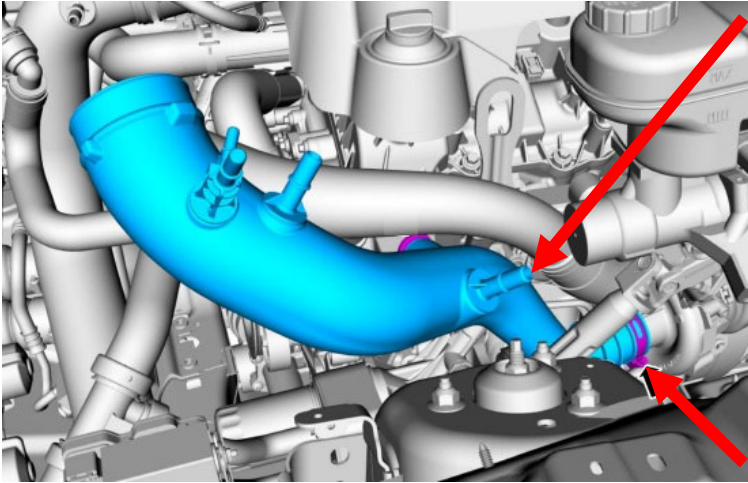
4. Unsnap the airbox retaining clips (2) and remove the factory filter, neither will be reused. Using a 10mm socket, remove the bolt securing airbox to body. Using a push pin removal tool, remove the 2 pins holding the airbox snorkel in place.



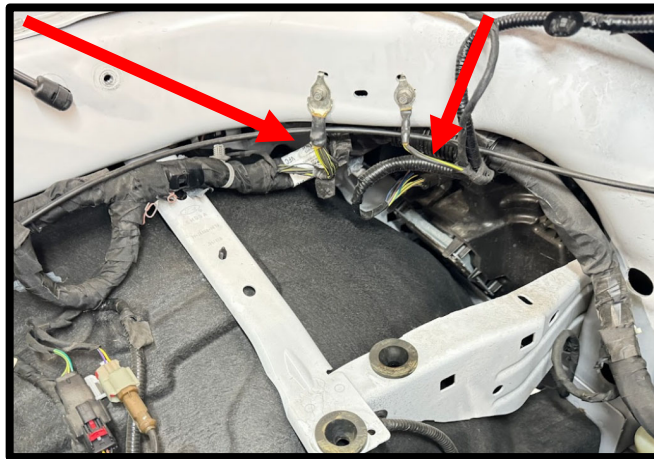
5. Locate the crank case vent line, disconnect quick connector.



6. Install the supplied vent tube to the vent fitting that was connected to the driver side valve cover, its direction is critical, the slash cut must face the turbo inlet. This is a tight fit, it cannot rotate after installation. Ensure that the tube is fully seated against vent fitting shoulder. Reconnect the vent fitting.



7. Lightly bend the (2x) ground wire so it goes below the frame. **NOTE:** Failure to do so will rub airbox and push airbox towards firewall and cause fitment issues.



8. Remove wiring loom plastic retainer from vehicle to relax the wiring harness.



9. Cut the plastic push pin coming up from the **LH** inner fender so it only has .125" protruding.



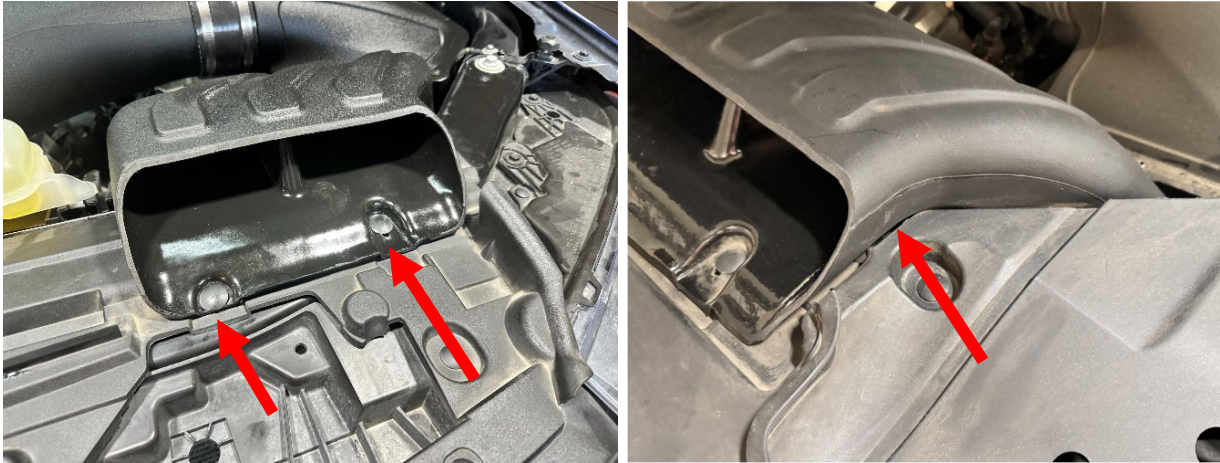
10. Remove the plastic retainer from the wiring loom.



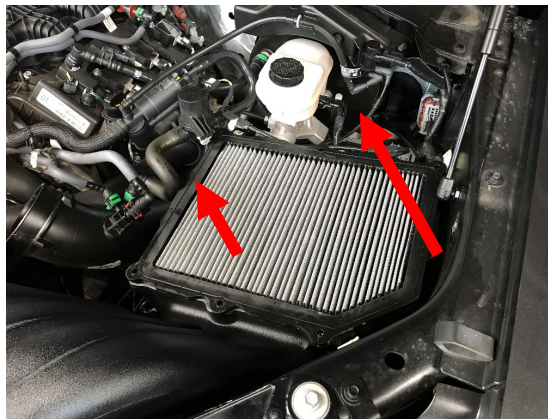
11. Add a zip tie to secure harness to frame as shown.



12. Install the lower airbox section to factory location. Using the supplied (2) 1.1" X .30" plastic push pin to snorkel section to secure airbox. **NOTE:** Expedition/Navigator require small notch to plastic ducting to clear snorkel.



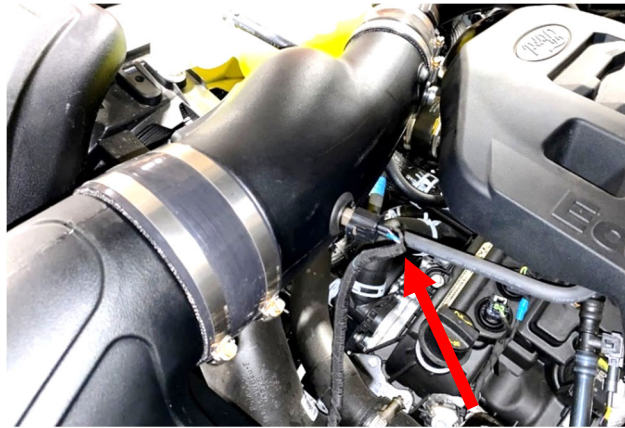
13. Install the supplied filter in the lower airbox. Install the supplied lid to filter and lower airbox. Secure using the supplied (6) 6mm x 16mm BHFCs. Torque to 50 in-lbs or snug. **NOTE:** Over torque can rip the brass insert out.



14. Remove the factory IAT sensor from the stock air tube by turning the sensor a ¼ turn, then lifting out of tube. Make sure the oring is still on the sensor and un-damaged.
15. Install the IAT sensor into the supplied plastic air temp sensor adapter. Install the rubber grommet into the Whipple air tube, apply grease to grommet, then install air temp sensor into grommet.



16. Install the supplied temp sensor adapter to air temp sensor. Install adapter and sensor into rubber grommet (apply light amount of engine oil or similar to help installation). NOTE: 2018-2020 models require IAT extension harness supplied with air kit.



17. Install the supplied silicone hose to the Whipple air tube using the supplied clamps. Use the #64 clamp on the 4" hump hose and #56 on the 3.5" hose reducer hose.



18. **Install supplied emissions CARB EO label to the hood next to the factory emissions (VECI) label. The installation of the CARB EO label is required for California's Smog Check program.**
19. Start the vehicle, check for any leaks or check engine lights.