



WHIPPLE 2.7/3.5L ECOBOOST COLD AIR KIT MANUAL

2015-2016 F150, EXPEDITION, NAVIGATOR 3.5L
2015-2017 F150 2.7L

PN: EB-8140, EB-8157



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CALIFORNIA AIR RESOURCE 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.
- 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.

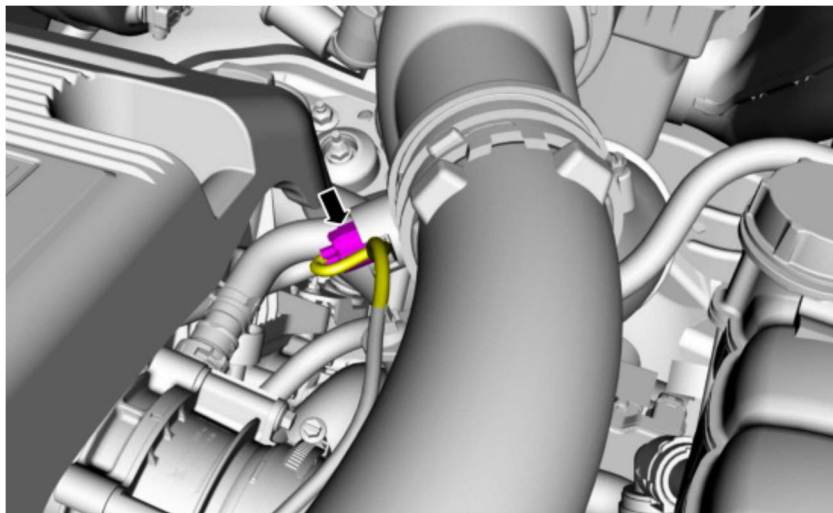
There are no warranties expressed or implied for engine failure or damage to the vehicle in any way, loss of use or inconvenience or labor reimbursement. This includes merchantability and fitness.

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.

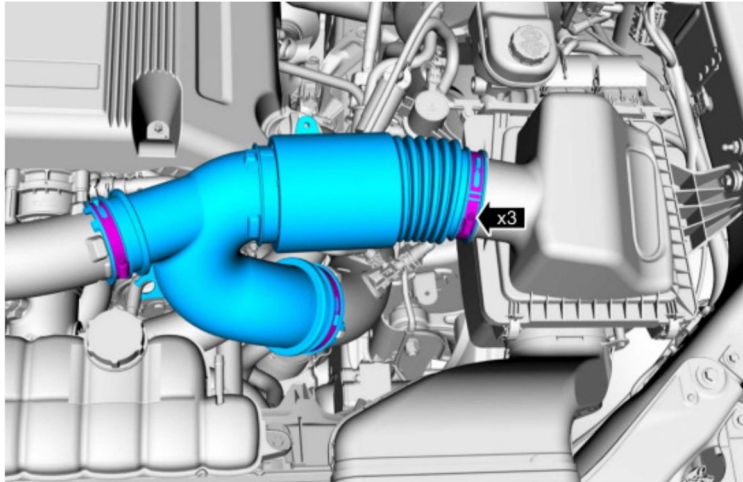
INSTALLATION INSTRUCTIONS

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 airtube and remove the air tube from the engine.



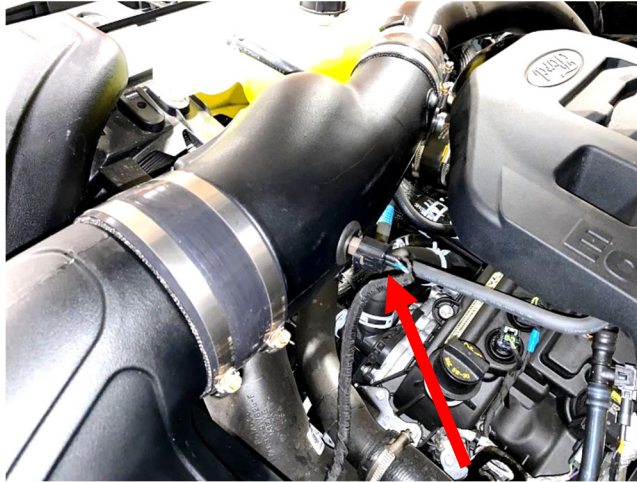
4. Unsnap the airbox retaining clips (2) and remove the factory filter, neither will be reused.



5. 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.
6. 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.



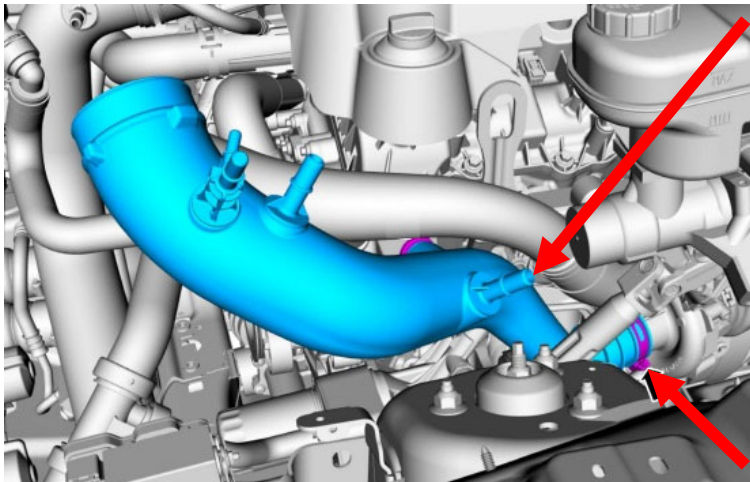
7. Install the supplied temp sensor adapter to air temp sensor. Install adapter and sensor into rubber grommet (apply light amount of engine oil or similar to help installation).



8. 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.



9. 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.



10. Set the airbox heat shield in place on top of the factory lower air box along with the new high flow filter, leave loose for now until after tube install.



11. Install the new air tube to the engine by setting the inlet side through the airbox and installing other ends to factory air tubes. Use the #64 hose clamp on the 4" hump hose and the #48 clamp on the 2.5" reducer hose. Secure clamps, torque to 44 in-lbs.
12. Secure the airbox heat shield to the factory lower box by locating the back tabs and snapping the front (2) locking tabs.
13. Install the plastic shielding around the airbox inlet tube hole to seal from hot air. Start from the bottom and work your way up so the seam is hidden.



14. Secure filter to air tube using supplied clamp. Torque to 44 in-lbs.



15. Install the supplied rubber shielding around the airbox edge, this will require cutting at each 90deg turn.



16. **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.**
17. Start the vehicle, check for any leaks or check engine lights.