

## Part Number: B100125



### Part List:

Air intake pipe(3" and 4" Dia)	2 Pieces
Coupler	1 Piece
Rubber Elbow	1 Piece
Clamp	5 Pieces
Air filter	2 Pieces
Crank case tube	1 Piece
Heat shield	1 Piece
Rubber trim (Thick)	1 Piece
Rubber trim (Thin)	1 Piece
Rubber spacer	3 Pieces
Grommet with hole	1 Piece
Grommet with cover	1 Piece
Stand-off stud	1 Piece
Washer	8 Pieces

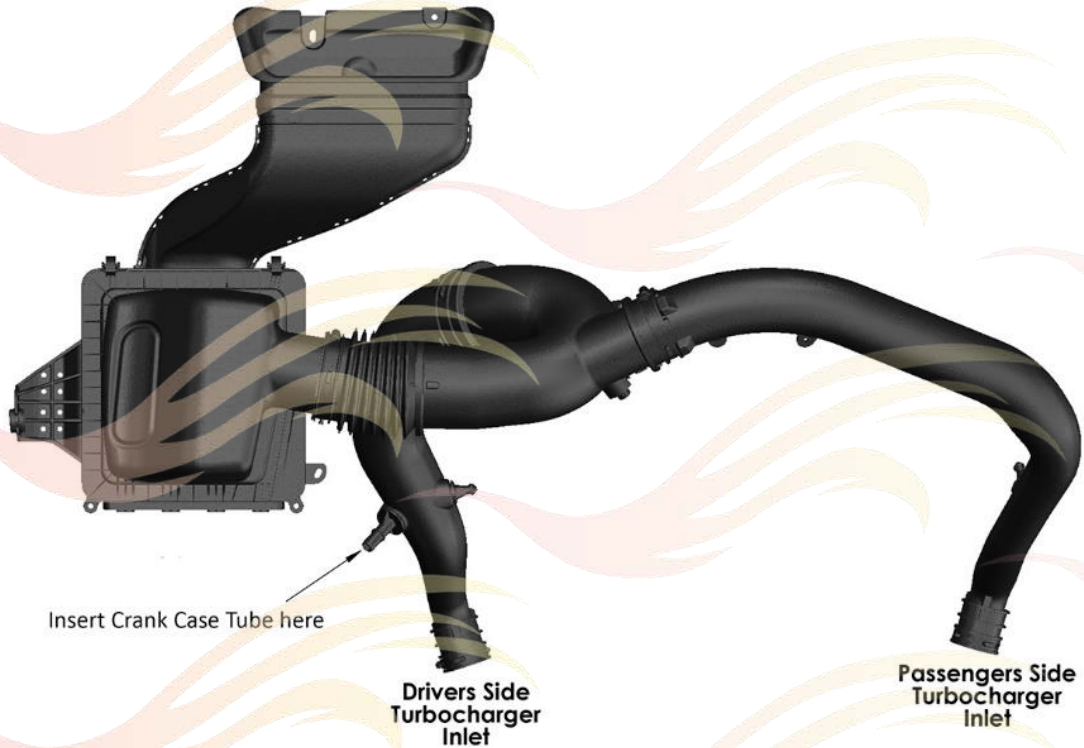
Nut	7 Pieces
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**Note: Disconnecting the negative battery terminal before starting this installation. The installation of this air intake does require mechanical skills.**

- Crank Case Tube must be installed into the lower OEM Drivers side turbo intake tube to avoid CEL. Rotate a few degrees clockwise / counter clockwise if CEL appears after installation.
- Insert the Crank Case Tube into the crank case port and lightly tap on top of it to get it fully sealed
- Once inserted the short end of the Crank Case Tube needs to point towards the driver's side turbo inlet



## Front of vehicle



- 1- Remove the 2 plastic retaining rivets from the air scoop and remove scoop from engine bay.





- 2- Disconnect the IAT sensor harness.



- 3- Loosen the 3 clamps that secure the stock intake tube.



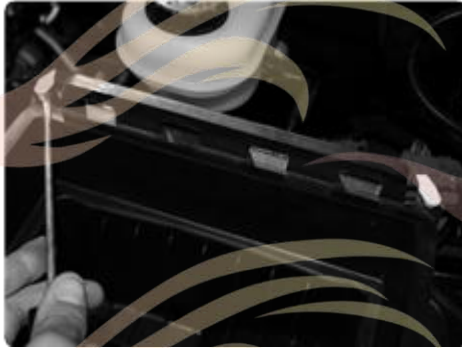
- 4- Unclip the upper half of the stock air box that attached to bottom of air box. Remove stock assembly out of vehicle.



- 5- Loosen the bolt that holding in the bottom of the air box.



- 6- Pull back the IAT sensor harness from the stock of bottom air box.



- 7- Lift up and remove the bottom half of the stock air box out of the vehicle.



- 8- Loosen and remove the IAT sensor out of stock intake tube. Use a small flat head screwdriver to pull back clip on sensor.



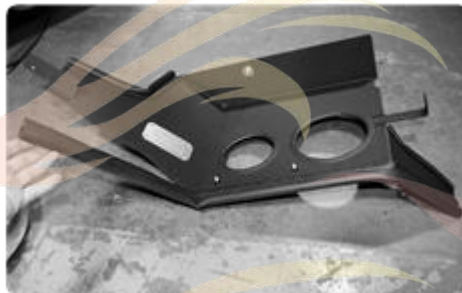
- 9- Locate the bolt holding in the radiator support. Loosen it and will be used for later step.



- 10- Install the thin rubber trim to the holes on the heatshield.  
Note: Cut the trim into 19" for the large hole, and 15" for the smaller hole.



- 11- Install the thick rubber trim to heatshield. Note: Longer trim, notch for better corner installation.





- 12- Locate the stock air box grommet and install the provided stand-off stud to the grommet. Make sure to secure it.



- 13- Install the headshield into the vehicle and position bracket to the front radiator support. Secure using bolt from step 9. Tighten and secure. Then install the bottom of the heatshield hole to the stand-off stud.



- 14- Install the bracket on heatshield to the front clip that located on fire wall. Make sure bracket sits under clip. Secure using provided washer and nut. Then secure the stand-off stud using provided washer and nut.



- 15- Secure and tighten the bracket with provided washer and nut.



- 16- Install the provided rubber elbow with 2 clamps to the large turbo housing side. Position the elbow like the picture below. Semi tighten the clamp on the turbo housing side.



- 17- Install the provided coupler with 2 clamps to the secondary turbo housing. Tighten the clamp on turbo housing side.



- 18- Install 2 rubber spacer to the threaded inserts on heatshield. Then install the provided 4" intake pipe, make sure the 3.5" side goes through the heatshield. Position the bracket to the



rubber spacer and 4" end to the rubber elbow.



- 19- Position the best fit, make sure the elbow fits with best fit and clearance. Then secure the bracket with washer and nut.

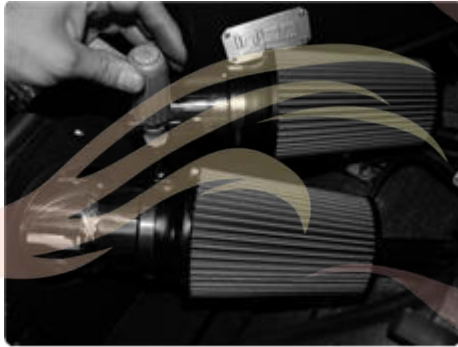


- 20- Install the provided rubber spacer to the welded fitting on the intake pipe, secure and tighten it.



- 21- Install the 3" diameter pipe. Position it to the coupler and brackets to rubber spacer.
- 22- Secure the brackets with provided washers and nuts, and then tighten them.
- 23- For Raptor and 2018 F150 models, install the grommet with hole on 3" pipe, and then install stock IAT sensor. Reconnect the electrical harness to the IAT sensor. And then install the grommet with cap to the other intake pipe.

- 24- For 15-17 F150 models, install the grommet with hole on 3.5" pipe, and then install stock IAT sensor. Reconnect the electrical harness to the IAT sensor. And then install the grommet with cap to the other intake pipe.
- 25- Install the 2 provided air filters to the open end of both pipes. Tighten the clamps on filter neck.



- 26- Ensure that the air filter is not touching any part of the vehicle. Position the inlet pipe for best fitment. Be sure that the pipe or any other component is not in contact with any part of the vehicle. Tighten the clamps at the throttle body and reducer coupling. Tighten the bolt on the intake resonator mounting bracket. Check for proper hood clearance. Re-adjust pipes if necessary.
- 27- Installation completed.

For the idea of the Universal Bracket Installation (Not for all intakes), please visit <http://www.youtube.com/watch?v=IMIXVYGW2Zk>.

If you have any questions about the product, please contact us at [sales@rtunesracing.com](mailto:sales@rtunesracing.com)