

2016+ FORD FOCUS RS PERFORMANCE AIR INTAKE PARTS LIST AND INSTALLATION GUIDE



PARTS INCLUDED

1PC | ALUMINUM INTAKE PIPE W/ CNC-MACHINED MAP SECTION

1PC | AIRBOX W/ PROTECTIVE EDGING

1PC | HIGH-FLOW OILED FILTER

1PC | SILICONE TURBO INLET HOSE

2PC | WORM-GEAR CLAMPS

1PC | CARB EO STICKER

MOUNTING HARDWARE

TOOLS NEEDED

4MM ALLEN KEY

1/4" EXTENSION

7MM SOCKET

10MM WRENCH

8MM SOCKET

12MM WRENCH

10MM SOCKET

PANEL TOOL

1/4" DRIVE RATCHET

FLATHEAD SCREWDRIVER

1/4" DRIVER

INSTALL TIME 30 MINUTES

INSTALL DIFFICULTY

DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

CAUTION

Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than

boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely before servicing it in any way.

INSTALL PROCEDURE

- 01.** Locate the hardware and brackets included with your kit. Seven of the bolts, along with the plastic washers, will secure the lid to the airbox. Each of the brackets will be secured with a bolt, lock washer, and metal washer. Each of the studs will be secured with a long bolt, lock washer, and metal washer.
- 02.** Install one of the supplied mounting studs to the bottom of the airbox using a bolt, lock washer, and flat washer. Leave the bolt loose for now. (1x 4mm Allen bolt, 1x lock washer, 1x metal washer)



- 03.** Locate the mounting bracket with a round cutout in your kit. Install this bracket to the airbox just below the air inlet duct. The tab on the bracket will fit into a slot on the airbox. Tighten this bolt completely. (1x 4mm Allen bolt, 1x lock washer, 1x metal washer)



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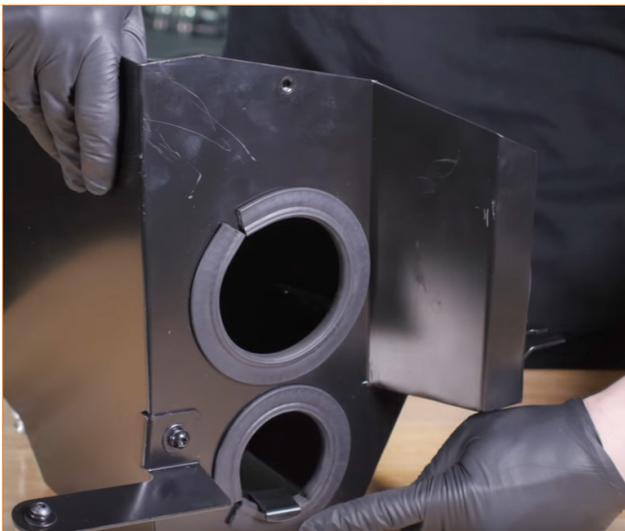
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04. Locate the long bracket in your kit. Install this bracket on the side of the airbox, next to the lower air inlet duct. (1x 4mm Allen bolt, 1x lock washer, 1x metal washer)



05. Install one of the supplied mounting studs to the bottom of the long bracket. Leave the bolt loose for now. (1x 4mm Allen bolt, 1x lock washer, 1x metal washer)
06. Locate the mounting bracket with an elongated slot in your kit. Install this bracket inside the lower air inlet duct, as shown here. Leave the bolt loose for now. (1x 4mm Allen bolt, 1x lock washer, 1x metal washer)



07. Disconnect the rubber shrouds that secure the air inlet ducts to the radiator support.



08. Separate the tree clip that secures the harness to the airbox, and disconnect the harness from the sensor.



09. Remove the engine cover by lifting it directly upward. The cover is held in by four pegs and grommets.
10. Disconnect the vacuum hose from the vacuum pump. To release the hose, depress the gray tab and pull the hose off the port. Then separate the vacuum hose from the intake tube. The hose is held on by a rubber grommet and a cable clip. (1x grommet, 1x cable clip)



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11. Remove the bolt, nut, and stud that secure the intake tube to the valve cover. (1x 8mm bolt, 1x 10mm nut, 1x 12mm stud)



12. Loosen the two worm-gear clamps that secure the lower intake tube to the airbox and upper intake tube. Then remove the lower intake tube. (2x 7mm worm-gear clamps)



13. Separate the airbox from the vehicle by lifting it upward. The airbox is held in with three studs and grommets.

14. Loosen the clamp that secures the upper intake tube to the turbocharger. This clamp is difficult to see. Use a 7mm socket on a small ratchet to make quick work of it. (1x 7mm worm-gear clamp)



15. Separate the upper intake tube from the turbocharger, lift it off the mounting studs and rotate it to access the hose connected to the back of the tube. Disconnect this hose by squeezing the knurled tabs.



16. Remove the upper intake tube from the vehicle. Rotate the tube as you lift it out for easy clearance.

17. Remove the coupler from the turbocharger inlet.



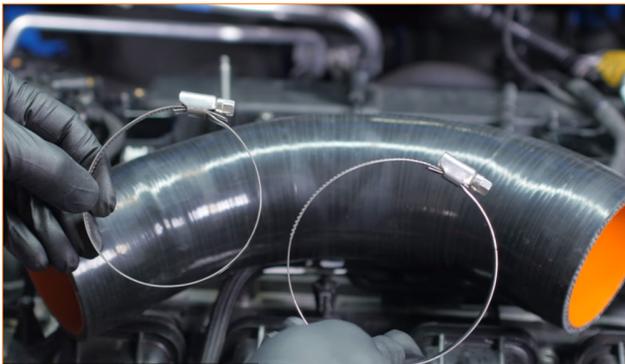
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18. Locate the silicone induction hose and the large worm-gear clamps in your kit. The smaller clamp installs to the turbo end of the hose and the larger clamp installs to the induction pipe end. [2x worm-gear clamps]



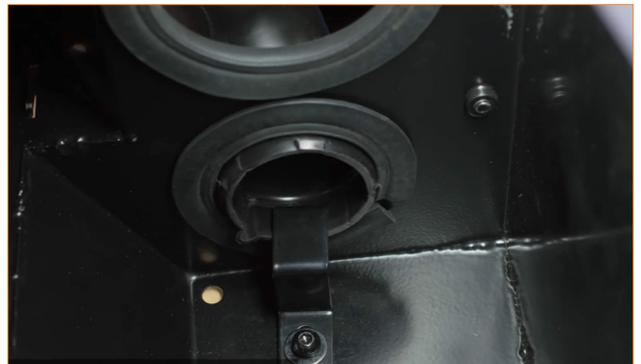
19. Install the clamp on the turbocharger end of the hose so that it will be accessible when the hose is installed.
20. Install the induction hose to the turbocharger inlet. Leave the clamp loose for now.
21. Install the larger worm-gear clamp to the induction hose. Slide it down the hose and snug the clamp just to keep it in place while you assemble the rest of the intake.
22. Remove the rubber mounting peg from the stock airbox and transfer it to the Mishimoto airbox. [1x rubber peg]



23. Remove the sensor from the stock airbox. Lift the lock tab on the sensor and turn the sensor counterclockwise by 90° to release it. Then pull the sensor straight out.



24. Remove the air inlet ducts from the stock airbox.
25. Install the lower air inlet duct to the Mishimoto airbox. Lift the bracket you installed earlier and slide the inlet duct into the airbox. Position the bracket so that the tab sits inside the groove on the inlet duct, and then snug the bolt by hand. We will go back and adjust this later.



26. Install the sensor to the Mishimoto induction pipe. Note that the raised section on the lip of the sensor bung retains the tab on the sensor.
27. Lower the Mishimoto airbox into place, but do not engage the mounting pegs yet. Lift the rubber shroud and seat the lower air inlet duct inside.

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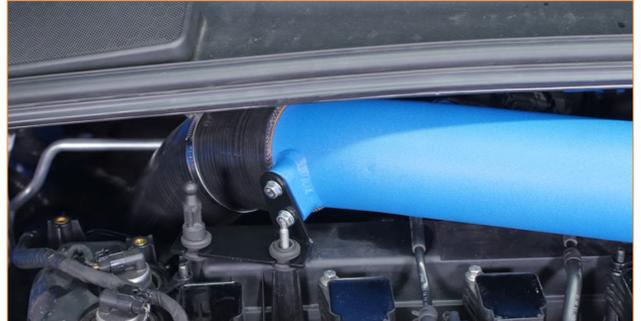
28. Remove the cable clip from the stock intake tube, and transfer the clip to the Mishimoto induction pipe.



29. Remove the metal insert and rubber grommet from the stock intake tube. Transfer the insert and grommet to the bracket included with your kit. Then install the bracket to the Mishimoto induction pipe with the included bolt as shown here. Leave the bolt loose for now. (1x 10mm bolt)



30. Remove the remaining metal inserts and grommets from the stock intake tube and transfer them to the last bracket in your kit. Set this bracket aside for now.
31. Install the Mishimoto induction pipe. Slip the pipe into the silicone induction hose first. Connect the hose to the port on the back of the induction pipe by pushing it on until it clicks. Tilt the airbox toward the fender and lower the pipe into place.
32. Install the last bracket over the stud on the valve cover. Turn the induction pipe to line up the bolt holes, and thread in the provided bolts. Install the plastic stud and nut that you removed earlier. Line up the bracket on the driver side with the hole in the valve cover and reinstall the original bolt. (2x 10mm bolts, 1x 10mm nut, 1x 12mm stud, 1x 8mm bolt)



33. Install the air inlet duct to the airbox. Push the airbox down to engage the mounting pegs, and secure the air inlet ducts with the rubber shrouding.
34. Tighten the bolts that secure the lower air inlet duct and both mounting studs.



35. Secure the vacuum line to the induction pipe and reconnect the pipe to the vacuum pump.

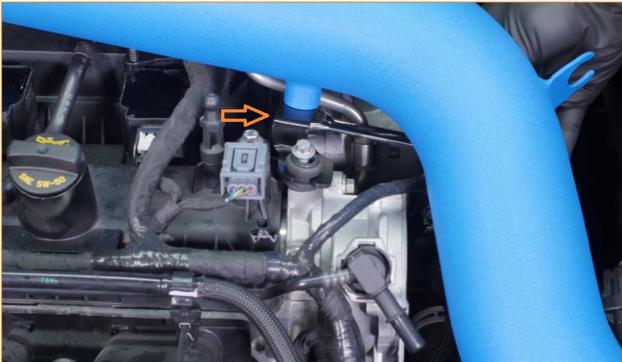
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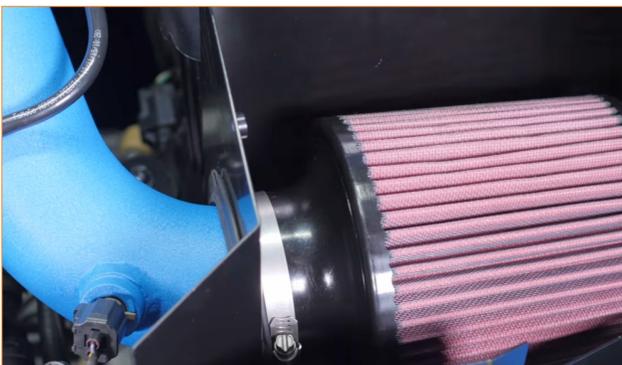
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36. Tighten the bolt that secures the bracket to the induction pipe.



37. Reconnect the sensor.
38. Adjust the position of the silicone tube and tighten the clamp that secures it to the turbocharger. Then tighten the clamp that secures the induction pipe to the silicone tube.
39. Tighten the bolts that secure the bracket to the induction pipe. Then tighten the nut and stud that secure the bracket to the valve cover.
40. Tighten the bolt that secures the driver side bracket to the valve cover.
41. Lower the air filter into the airbox and slide the filter over the induction pipe. Tighten the clamp on the filter to secure it to the induction pipe. (1x worm-gear clamp)



42. Install the airbox lid and secure it with the seven bolts and washers. (7x 4mm Allen bolts, 7x plastic washers)
43. Reinstall the engine cover.
44. Please place the included CARB EO sticker in a clean, visible location.

Congrats! You just finished installing the 2016+ Ford Focus RS Performance Air Intake.

