

FORD MUSTANG ECOBOOST INTERCOOLER, 2015+

PARTS LIST AND INSTALLATION GUIDE

PARTS LIST

- 1PC| MISHIMOTO INTERCOOLER
- 1PC| M6 X 1.0 X 20MM FLANGE BOLT
- 1PC| M4 X 0.7 X 12MM BUTTON-HEAD BOLT
- 1PC| M4 LOCK WASHER
- 1PC| MAP SENSOR O-RING

TOOLS NEEDED

- | | |
|-------------------|---------------------------|
| COOLANT | RATCHET |
| FUNNEL | RATCHET EXTENSION |
| LINEMAN'S PLIERS | 10MM SOCKET |
| NEEDLENOSE PLIERS | PHILLIPS HEAD SCREWDRIVER |
| FLUID DRAIN PAN | |

INSTALL TIME: 2 HOURS **INSTALL DIFFICULTY:** 3/5

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, as 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.

INSTALLATION INSTRUCTIONS

REMOVING THE FRONT BUMPER

1. Raise the vehicle and remove the undertray. (14x 7mm bolts, 6x pop clips, 2x 5.5mm bolts)



2. Remove the eight pop clips that hold the plastic air diversion cover in place. Remove the cover.



3. Remove the bumper hardware, but do not fully remove the front bumper. (4x pop clips and 6x 8mm screws)



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4. Pull the fender liner out and remove the two 7mm bolts (one on each side) that hold on the bumper.

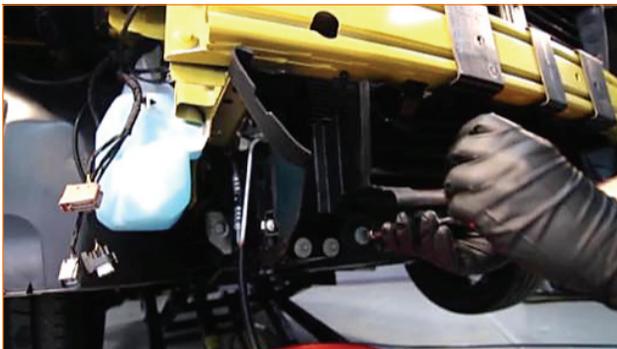


5. Unclip the bumper from the vehicle by pulling the side corners out first, and then lifting the top holes up off the pegs. Once the bumper is loose, unclip the six wire harnesses for the turn signals, headlights, and fog lights. Remove the bumper.



REMOVING THE STOCK INTERCOOLER

6. Remove the two pop clips and four 8mm bolts that hold the air dam in place.



7. Separate the clip to free the air shutter arm.



8. Disconnect the wire harness for the air shutter motor.

9. Remove the two tree clips for the ambient temperature sensor and set the sensor off to the side.

10. Remove the four 8mm bolts that hold the brace to the vehicle.



11. Remove the 10mm bolt on the passenger side of the intercooler.



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12. Remove the electrical clip for the manifold absolute pressure (MAP) sensor on the driver side of the intercooler and set aside.



13. Loosen the worm-gear clamp on the cold-side pipe connecting to the intercooler. (7mm socket, 7mm socket wrench, or flathead screwdriver)



14. Loosen the worm-gear clamp on the hot-side pipe connecting to the intercooler. (7mm socket, 7mm socket wrench, or flathead screwdriver)



15. Detach the cold-side pipe from the intercooler.



16. Remove the plastic cover from the side of the intercooler and rotate to the side.



17. Remove the radiator stays. (4x 10mm bolts)

18. Lift up the A/C condenser from the radiator to create room above the intercooler. The condenser is held to the radiator with two tabs.



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19. On the cold side of the intercooler, pull the lower tab and rotate the bottom of the intercooler forward.



20. Lift the intercooler hangers up while pulling forward toward the front of the vehicle.



21. Once lifted out of the radiator mounts, remove the hot-side coupler while wiggling the intercooler forward. Remove the intercooler.



22. Remove the MAP sensor from the stock intercooler. (T25 torx bit)



INSTALLING THE MISHIMOTO INTERCOOLER

23. Transfer the MAP sensor to the Mishimoto intercooler. If needed, replace the stock O-ring with the Mishimoto-supplied O-ring. (1x M6 x 1.0 x 20mm flange bolt, 10mm socket)

24. Lift the intercooler up and into the vehicle. It is easiest to insert one side first and then the other.

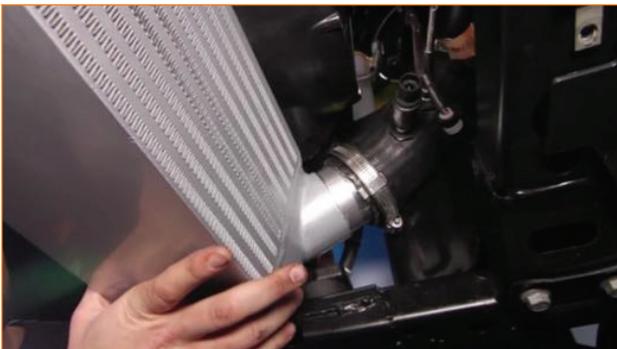


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25. Install the intercooler onto the hanger mounts. Make sure that the hot-side pipe is lined up with the intercooler. Lifting up on the A/C condenser assembly may be required to allow room for everything to fit.



26. Tighten down the intercooler on the passenger side. (1x 10mm bolt)



27. Install the supplied set screw on the driver side. (1x M4 x 0.7 x 12mm button-head bolt, 1x M4 lock washer, 2.5mm Allen key)



28. Tighten the worm-gear clamp on the hot-side pipe. Make sure that the boot is seated all the way on the intercooler. (7mm socket, 7mm socket wrench, or flathead screwdriver)



29. Tighten the worm-gear clamp on the cold-side pipe. Make sure that the boot is seated all the way on the intercooler. (7mm socket, 7mm socket wrench, or flathead screwdriver)



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30. If you adjusted the A/C condenser previously, make sure that the A/C condenser is clipped back into place.

31. Reinstall both radiator stays. (4x 10mm bolts)

32. On the driver side of the intercooler, plug in the MAP sensor.



33. Put the plastic cover from the side of the intercooler back into place.

34. Reinstall the four 8mm bolts that hold the brace to the vehicle.



35. Reattach the air shutters. Make sure to route the air shutter arm around the front crash beam. The air shutter arm will reattach to the clip on the front air dam. (2x pop clips, 4x 8mm bolts)



36. Reattach the ambient temperature sensor.

37. Place the front bumper in front of the vehicle, and reconnect the six wire harnesses for the turn signals, headlights, and fog lights.

38. Reinstall the front bumper. Make sure that the bumper clips into the slots by the headlight housings.



39. Reinstall the two 7mm bolts that hold the front fender to the inner fender wall. There is one bolt on either side of the bumper.

40. Check for any pinched wires or plastic trim before reinstalling the bumper hardware. (4x pop clips and 6x 8mm screws)

41. Reattach the plastic air diversion cover. (8x pop clips)

42. Reattach the undertray. (14x 7mm bolts, 6x pop clips, 2x 5.5mm bolts)

You have now successfully installed your new Ford Mustang EcoBoost Performance Intercooler. Enjoy!