

PARTS INCLUDED

- 1PC** Mishimoto Performance Oil Cooler
- 1PC** Application-Specific Bracket
- 1PC** 2ft 8in Stainless Steel Braided Hose w/ -10AN 45/90 Fittings
- 1PC** 4ft 3in Stainless Steel Braided Hose w/ -10AN 45/180 Fittings
- 1PC** M22 Rear-Mounted Thermostatic OSP w/ Stainless Steel Center Bolt, Gold
- 1PC** Lower Coolant Hose with Worm Gear Clamps
- 1PC** Mounting Hardware Pack

TOOLS NEEDED

- 1/4" Drive Ratchet
- 1/4" Drive Extension
- 3/8" Drive Ratchet
- 3/8" Drive Extension
- 5.5mm Socket
- 7mm Socket
- 8mm Socket
- 12mm Socket
- 13mm Socket
- 1-1/16" Socket
- 14mm Allen Key
- 1" Wrench
- Torque Wrench
- Pop-Clip Removal Tool

INSTALL TIME 3 Hours

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.

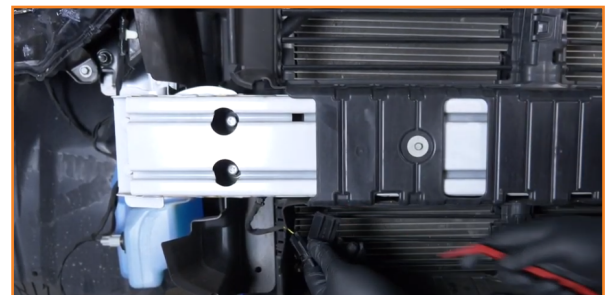
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

INSTALL PROCEDURE

1. Remove the splash shield under the vehicle.
2. Remove the front bumper.
3. Drain the coolant from the cooling system.
4. Separate the plastic plate in the place of the grille shutter if applicable to your model. If you have the performance package without active shutters, you can jump to Step 8 after this step. If you have the base model with active shutters, proceed to Step 5 now. (5x pop-clips)



5. Disconnect the ambient air temperature sensor that's under the crash beam. Separate its wiring harness from the crash beam. (1x tree-clip)

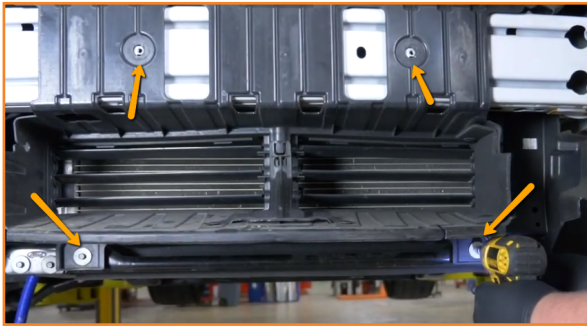


6. Remove the active grille shutters on the top and bottom if applicable. (4x 8mm bolts, 2x pop-clips, 2x 5.5mm screws)

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7. Disconnect the electrical harness on the top grille shutter.
8. Open the plastic brackets to move the wiring harness behind the crash beam to the side.



9. Remove the bolts on the support bars behind the crash beam. (4x 13mm nuts, 4x 13mm bolts)



10. Loosen the upper radiator stays so that you can lean the cooling stack backward. (4x 10mm bolts)



11. Install the Mishimoto plate under the radiator cover. Use the provided hardware to secure it in place. (5x 10mm bolts)



12. Secure the radiator stays. (4x 10mm bolts)
13. Remove the bolts that secure the crash beam and pull the beam off the front of the vehicle. (8x 13mm bolts)
14. Reinstall the upper portion of the radiator support bars. (4x 13mm bolts)

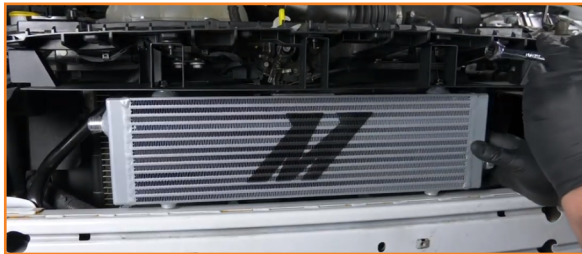


15. Reinstall the crash beam. Torque the bolts to 18 ft-lbs. (8x 13mm bolts)

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16. Secure the lower portion of the support bars to the crash beam. (4x 13mm nuts)
17. Secure the wiring harness within the plastic brackets behind the crash beam.
18. Connect the ambient air temperature sensor. Attach its wiring harness to the crash beam. (1x tree-clip)
19. Install the Mishimoto oil cooler between the plate and crash beam. The oil cooler is designed to shift forward and back to allow room for other cooling components. Slide it all the way back if nothing else is installed. (2x 12mm bolts)



20. Disconnect the four coolant line connections from the stock oil cooler. Have a bucket ready to catch coolant.



21. Disconnect the mass airflow sensor. Release the red tab and then depress the black tab at the center to separate the connection.
22. Loosen the clamp where the intake tube meets the airbox.
23. Pull up on the sound generator to clear it from the airbox.



24. Remove the bolt on the airbox and lift it out of the engine bay. (1x 10mm bolt)
25. Separate the lower radiator hose at the thermostat housing and radiator, and remove it from the vehicle. (2x spring clamps)



26. Unscrew the oil filter. Have a bucket ready to catch the oil that comes out.
27. Remove the stock oil cooler. (14mm Allen key)



28. Thread the fittings into the sandwich plate. Tighten them down with a 1" wrench. Then lubricate the O-ring on the bottom of the sandwich plate.

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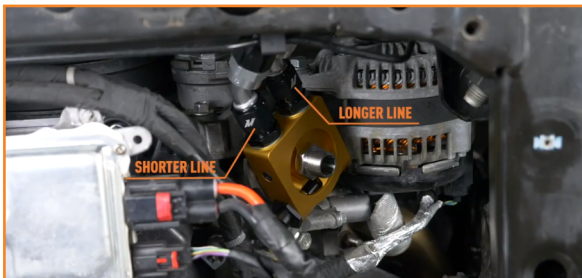
29. Install the sandwich plate where the stock oil cooler was originally located. Hand tighten the bolt that secures the sandwich plate.
30. Attach the shorter of the two lines from your kit to the driver-side port on the oil cooler.
31. Attach the longer line to the passenger-side port on the oil cooler.



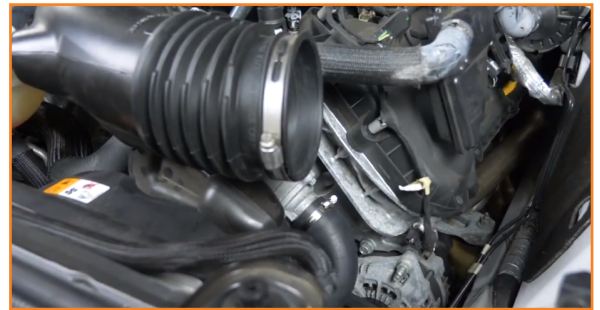
32. Feed the lines past the face of the radiator and down around the side of it toward the sandwich plate as shown below.



33. Attach the longer line to the fitting at the top of the sandwich plate.
34. Attach the shorter line to the fitting at the bottom of the sandwich plate.



35. Fully tighten the lines on the sandwich plate and oil cooler with a 1" wrench.
36. Tighten the sandwich plate with a 1-1/16" socket. Torque to 30 ft-lbs.
37. Reinstall the oil filter.
38. Install the provided lower radiator hose. (2x worm gear clamps)



39. Reinstall the airbox and set the sound generator. (1x 10mm bolt, 1x worm gear clamp)
40. Reconnect the mass airflow sensor.
41. Reinstall the front bumper.
42. Reinstall the lower splash shield under the vehicle.
43. Refill the coolant to the proper level.

Congratulations! You have finished installing the Mishimoto 2018+ Ford Mustang GT Oil Cooler.