

# 2015+ MUSTANG GT RADIATOR

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

**1 PC** | MISHIMOTO RADIATOR

MOUNTING HARDWARE

INSTALLED RUBBER TRIM SEAL

### TOOLS NEEDED

POP-CLIP PLIERS	10MM SOCKET
CHANNELLOCK PLIERS	19MM SOCKET
ANGLED NEEDLENOSE PLIERS	3/8" DRIVE RATCHET
VICE GRIPS OR HOSE-CRIMP TOOL	FLATHEAD SCREWDRIVER
HOSE-CLAMP TOOL	HOSE PICK
7MM SOCKET	DRAIN BUCKET
	FORD-APPROVED COOLANT

**INSTALLATION TIME** 3-4 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.

### INSTALLATION INSTRUCTIONS

- 01.** Set the vehicle on an automotive lift, or raise it with a jack and place it securely on jack stands. Refer to your owner's manual for safe lifting points if you are unsure.
- 02.** Remove the six pop-clips that secure the splash panel to the underside of the vehicle. (6x pop-clips)
- 03.** Remove the 16 screws that secure the splash panel. Then slide the splash panel toward the rear of the vehicle to remove it. (16x 7mm screws)

- 04.** Locate the radiator drain on the passenger side of the vehicle. Install a short piece of hose over the drain to avoid spilling coolant. Place a drain bucket under the hose, and loosen the drain plug until coolant flows freely from the hose.



- 05.** Remove the pressure cap from the expansion tank to accelerate the draining process.
- 06.** Remove the eight pop-clips that secure the air diverter to the radiator support. Then remove the air diverter. (8x pop-clips)
- 07.** Remove the two bolts that secure the driver-side radiator stay to the vehicle, and then remove the radiator stay. (2x 10mm bolts)



- 08.** Remove the two bolts that secure the passenger-side radiator stay to the vehicle, and then remove the radiator stay. (2x 10mm bolts)

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- 09.** Compress the spring-clamp that secures the overflow hose to the radiator until it locks in the open position, and then slide it down the hose. Remove the overflow hose from the radiator. The nipple on this hose is very long, so take your time to avoid damaging it. (1x spring-clamp)



- 10.** Remove the two bolts that secure the expansion tank to the fan shroud. (2x 10mm bolts)



- 11.** Disconnect the overflow hose from the nipple on the filler neck of the expansion tank.

- 12.** Compress the spring-clamp that secures the coolant hose to the bottom of the expansion tank, and slide it down the hose. Then remove the coolant hose from the expansion tank. This hose will likely have coolant in it, so be ready with your bucket to capture any spills. (1x spring-clamp)

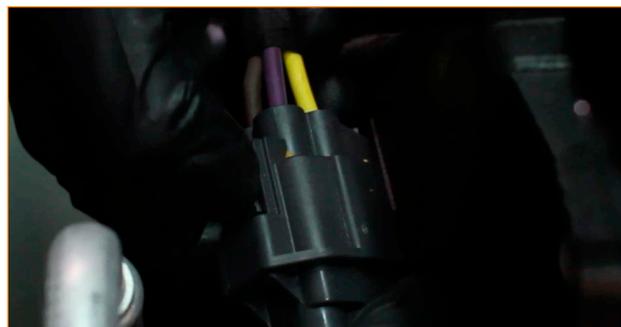


- 13.** Compress the spring-clamp that secures the coolant hose to the rear of the expansion tank, and slide it down the hose. Then disconnect the hose from the expansion tank, and remove the tank from the vehicle. (1x spring-clamp)

- 14.** Compress the spring-clamp that secures the upper radiator hose to the vehicle, and move it down the hose. Then disconnect the hose from the radiator. (1x spring-clamp)



- 15.** Disconnect the fan wiring harness. Depress the lock tab on the connector, then slide the connector apart.



- 16.** Loosen the worm-gear clamp that secures the intake pipe to the airbox, and separate the hose. (1x worm-gear clamp)

- 17.** Disconnect the two hoses from the intake pipe. To release the hose, depress the lock tab and pull it off.

- 18.** Remove the last hose from the intake pipe by sliding the lock tab down the slot and pulling it off the port.



- 19.** Remove the engine cover by lifting it directly upward. The engine cover is secured by four pegs and grommets.

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20. Loosen the worm-gear clamp that secures the intake pipe to the throttle body. Then remove the intake pipe. (1x worm-gear clamp)
21. Remove the bolt that secures the airbox to the vehicle. The bolt which is located along the driver-side fender. (1x 10mm bolt)
22. Disconnect the mass airflow (MAF) sensor, release the harness tree-clip from the airbox, and move the harness out of the way. Then remove the airbox from the vehicle by lifting it upward. To release the connector, slide the red locking tab away from the connector, then depress the black tab and pull the connector apart. (1x tree-clip)
23. Remove the two bolts that secure the fan shroud assembly to the radiator. (2x 10mm bolts)
24. Remove the fan shroud assembly by lifting it directly upward. Two tabs on the radiator secure the lower half of the fan shroud.
25. Place a drain bucket under the lower radiator hose connection. Compress the spring-clamp that secures the lower radiator hose to the radiator, and slide it down the hose. Then disconnect the hose from the radiator. (1x spring-clamp)
26. Separate the AC condenser from the radiator by lifting it up and out of the four tabs on the radiator.
27. Remove the radiator from the vehicle by lifting it directly upward.
28. Remove the clip nuts from the stock radiator, and transfer them to the Mishimoto radiator. To release the clip nut, slip a flathead screwdriver behind the flat side of the clip nut and



slide it off. (2x clip nuts)

29. Remove the two isolator bushings from the bottom of the stock radiator, and reinstall them on the radiator support.
30. Snug the drain plug on the Mishimoto radiator, but do not overtighten it. (1x 19mm drain plug)
31. Install the Mishimoto radiator. Tilt the radiator as you lower it into place so that the drain will clear the frame rail. Make sure that both of the mounting pegs engage the isolator bushings on the radiator support.
32. To avoid possible damage, disconnect the electrical harness from the AC pressure sensor. Attach the AC condenser to the radiator by tilting the radiator back and lowering the legs on the condenser into the brackets on the radiator. Then reconnect the electrical harness to the AC pressure sensor.
33. Install the lower radiator hose on the Mishimoto radiator, and secure it with the original spring-clamp. (1x spring-clamp)
34. Install the fan shroud assembly. Lower the assembly into place, making sure that the tabs on the side of the shroud engage the brackets on the radiator and that the tabs on the top of the shroud engage the top edge of the radiator. Then secure the assembly with the original hardware. (2x 10mm bolts)
35. Reconnect the fan wiring harness.
36. Install the upper radiator hose to the Mishimoto radiator, and secure it with the original hardware. (1x spring-clamp)
37. Install the driver-side radiator stay, and thread in the original hardware, but do not fully tighten them yet. (2x 10mm bolts)
38. Install the passenger-side radiator stay, and secure it with the original hardware. Then go back and tighten the driver-side radiator stay hardware. (2x 10mm bolts)
39. Install the airbox. Tilt the airbox as you lower it into place so that it clears the air inlet duct. Align the peg on the airbox with the hole in the fender. Then secure the airbox with the original hardware. (1x 10mm bolt)
40. Connect the electrical harness to the MAF sensor, and secure the connector with the red locking tab. Secure the harness to the airbox with the tree-clip on the wiring harness. (1x tree-clip)
41. Install the intake pipe on the throttle body and the airbox. Connect the three hoses to the intake pipe; simply push them on until they lock. Then secure the intake pipe with the worm-gear clamps. (2x worm-gear clamps)
42. Install the expansion tank. Slip the coolant hose onto the bottom of the expansion tank, and secure it with the original spring-clamp. Then lower the expansion tank into place, making sure that the tab on the expansion tank engages the slot on the fan shroud. (1x spring-clamp)
43. Connect the overflow hose to the nipple on the filler neck of the expansion tank. There is no clamp on this hose.
44. Install the coolant hose to the rear of the expansion tank, and secure it with the spring-clamp. (1x spring-clamp)
45. Attach the expansion hose to the nipple on the radiator, and secure it with the spring-clamp. (1x spring-clamp)
46. Secure the expansion tank to the fan shroud with the original hardware. (2x 10mm bolts)
47. Install the engine cover by pressing it down.

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48. Install the air diverter over the radiator, and secure it with the eight pop-clips you removed earlier. (8x pop-clips)
49. Install the splash panel. Slip it into place, and secure it with the original pop-clips and screws secure this panel. (6x pop-clips, 16x 7mm screws)
50. Clamp the overflow hose and fill the cooling system with premixed, Ford-approved coolant through the reservoir filler neck. Use vice grips to pinch the overflow hose, and install a spill-proof funnel to make the job easy.

51. Start the engine, and allow it to idle with the cap off. Turn the heater control valve on the vehicle's HVAC unit to full hot, and put the fan on low. Monitor the engine temperature and coolant level in the reservoir. Add coolant as needed to maintain proper level in the reservoir, and check your connections for leaks. If the vehicle begins to overheat or coolant starts to overflow from the reservoir, shut off the engine and allow it to cool before continuing. Once the vehicle is fully warmed up and the coolant level has stabilized, allow the vehicle to cool off completely, and then top off the coolant level. Coolant level should be checked once more after putting in some miles.

**Congrats! You just finished installing the 2015+ Mustang GT Radiator.**



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