

# 2016 CAMARO SS RADIATOR HOSE KIT

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

**1 PC** | UPPER RADIATOR HOSE

**1 PC** | LOWER RADIATOR HOSE

**7 PC** | WORM-GEAR CLAMPS

### TOOLS NEEDED

T15 TORX SOCKET	1/4" EXTENSION(S)	NEEDLENOSE PLIERS
7MM SOCKET	PANEL TOOL	GM-APPROVED COOLANT
10MM SOCKET	POP-CLIP PLIERS	
1/4" DRIVE RATCHET	CHANNELLOCK PLIERS	
1/4" DRIVER	LINESMAN PLIERS	

**INSTALLATION TIME** 2-3 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.

### 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 five screws that secure the air diverter to the driver side of the vehicle, and remove the air diverter. Repeat this process on the passenger side. (10x 7mm screws)



- 03.** Remove the eight screws that secure the lower edge of the bumper. (8x 7mm screws)

- 04.** Remove the four screws and six bolts that secure the splash panel to the underside of the vehicle. Then remove the splash panel. (4x 7mm screws, 6x 10mm bolts)



- 05.** Place a drain pan beneath the petcock on the radiator. Attach a short length of hose over the drain on the radiator to reduce spillage, and loosen the petcock until coolant begins to flow from the drain tube. Remove the cap from the expansion tank to expedite the draining process.



- 06.** Remove the 10 lug nuts that secure the front wheels to the vehicle, and remove the wheels. This will provide access to the fender liner and the hose connections at the secondary radiator. (10x 22mm lug nuts)

- 07.** Remove the seven screws and one pop-clip that secure the driver-side fender liner to the vehicle. (7x T15 Torx screws, 1x pop-clip)

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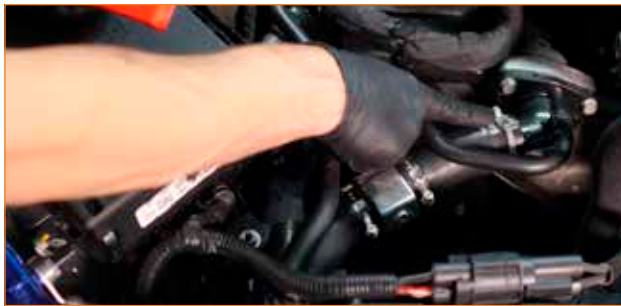
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- 08.** Unseat the liner from the fender, and pull it back to expose the front of the wheel well.



- 09.** Remove the seven screws and one pop-clip that secure the passenger-side fender liner to the vehicle. (7x T15 Torx screws, 1x pop-clip)
- 10.** Unseat the liner from the fender, and pull it back to expose the front of the wheel well.
- 11.** The cooling system should be mostly empty by now, so go back and tighten the petcock on the radiator.
- 12.** Compress the spring clamp that secures the upper radiator hose to the thermostat housing, and move the clamp down the hose. Then remove the hose from the thermostat housing. (1x spring clamp)



- 13.** Compress the clamp that secures the upper radiator hose to the radiator, and move the clamp down the hose. Then remove the hose from the vehicle. (1x worm-gear clamp)



- 14.** Compress the spring clamp that secures the sound generator tube to the induction hose, and pull the sound generator tube off the port. The plastic elbow will remain in the induction hose. (1x spring clamp)
- 15.** Loosen the worm-gear clamp that secures the induction hose to the throttle body. Then pull the induction hose off the throttle body. (1x worm-gear clamp)
- 16.** Disconnect the CCV hose from the induction hose. Depress the gray tab that protrudes from the connector, and pull the hose off the port.
- 17.** Loosen the worm-gear clamp that secures the induction hose to the stock airbox. Then remove the induction hose from the vehicle. (1x worm-gear clamp)
- 18.** Disconnect the mass airflow (MAF) sensor. Unlock the connector by sliding the red lock tab out of the connector, then depress the black tab and slide the connector off the sensor.
- 19.** Release the clip that secures the airbox to the sound generator hose.
- 20.** Remove the stock airbox by lifting it directly upward. The airbox is secured to the vehicle with three pegs and grommets.
- 21.** Compress the clamp that secures the lower radiator hose to the engine, and slide the clamp down the hose. Then remove the hose from the engine. (1x spring clamp)



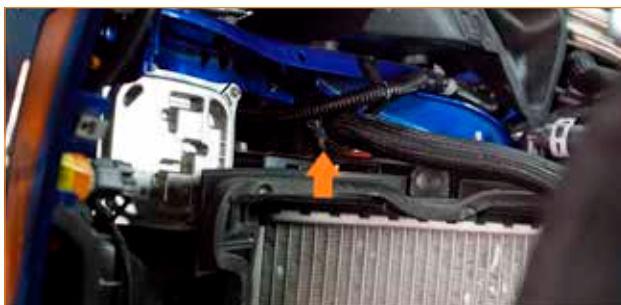
- 22.** Release the lower radiator hose from the plastic clip that connects it to the small coolant hose below the water outlet.

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- 23. Compress the clamp that secures the lower radiator hose to the radiator, and slide the clamp down the hose. Then remove the hose from the radiator. (1x spring clamp)
- 24. Pull back the driver-side fender liner, and locate the outer coolant hose on the auxiliary radiator. Compress the clamp that secures this connection, and slide it down the hose. Then remove the hose from the fitting. (1x spring clamp)



- 25. Pull back the passenger-side fender liner, and locate the inner coolant hose on the auxiliary radiator. Release the tree-clip that secures this hose to the body of the vehicle. Compress the clamp that secures the hose to the radiator, and slide the clamp down the hose. Then remove the hose from the fitting. (1x tree-clip, 1x spring clamp)



- 26. Remove the screw and pop-clip that secure the rear portion of the fender liner on the driver side. (1x T15 Torx screw, 1x pop-clip)



- 27. Remove the three bolts that secure the plastic panel to the underside of the crossmember on the driver side of the vehicle. Then remove the plastic panel. (3x 10mm bolts)



- 28. Look through the hole behind the panel you just removed to locate the last coolant line connection. Place a drain pan underneath the hose. Compress the clamp that secures the coolant line, and slide it up the hose. Then remove the hose from the coolant pipe. (1x spring clamp)



- 29. From inside the wheel wells, lead the auxiliary radiator hoses into the engine bay. This will make the hose easier to remove later.

- 30. Separate the two tree-clips that secure the coolant bypass tube to the fan shroud. (2x tree-clips)



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31. Take note of the way each section of the lower hose is routed, then remove the hose from the vehicle.
32. Install the Mishimoto lower hose. Because it has so many parts, this hose can be a bit unwieldy to install. Just take your time and pay attention to where each section is routed. Get the main body of the hose situated, then lead the driver-side auxiliary radiator hose under the frame and into the wheel well. Route the end of the hose that attaches to the engine underneath the coolant pipe. Now lead the passenger-side auxiliary hose underneath the frame rail and into the wheel well.  
  
*TIP: Lubricate the inside lip of the radiator hose with fresh engine coolant to aid with installation.*
33. Slip one of the provided worm-gear clamps over the engine end of the lower radiator hose, and install the hose over the water outlet on the engine, but don't tighten the clamp yet. (1x worm-gear clamp)
34. Slip one of the provided worm-gear clamps over the radiator side of the lower radiator hose, and install the hose to the radiator, but don't tighten the clamp yet. (1x worm-gear clamp)
35. Slip one of the provided worm-gear clamps over the auxiliary radiator hose located in the driver-side wheel well. Install the hose over the fitting on the radiator, and tighten the clamp over the bead roll. (1x worm-gear clamp)
36. Slip one of the provided worm-gear clamps over the auxiliary radiator hose in the passenger-side wheel well. Install the hose over the fitting on the radiator, and tighten the clamp over the bead roll. (1x worm-gear clamp)
37. Slip one of the provided worm-gear clamps over the last connection on the lower radiator hose, located just above the steering rack on the driver side of the vehicle. Install the hose over the coolant pipe, and tighten the clamp over the bead roll of the pipe. (1x worm-gear clamp)
38. Now go back and tighten the clamps where the lower radiator hose attaches to the radiator and the engine.
39. Slip two of the provided worm-gear clamps over the Mishimoto upper radiator hose, and install the hose to the radiator and the thermostat housing. Align the clamps with the bead rolls on the connections, and then tighten them completely. (2x worm-gear clamps)

40. Secure the coolant bypass tube to the fan shroud with the two integrated tree-clips (2x tree-clips)
41. Lower the airbox into place. Align the mounting pegs with the grommets, and push the airbox down to engage them.
42. Secure the sound generator tube to the airbox with the integrated clamp.
43. Connect the wiring harness to the MAF sensor, and lock the connector with the red tab.
44. Install the induction hose over the airbox and throttle body. Then tighten the hose clamps that secure it. (2x worm-gear clamps)
45. Connect the CCV hose to the induction hose.
46. Compress the spring clamp on the sound generator tube, and connect the tube to the elbow on the induction hose. (1x spring clamp)
47. Fill the cooling system with premixed, GM-approved coolant through the reservoir filler neck, 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 a proper level in the reservoir, and check all 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.
48. Once the vehicle is fully warmed up and the coolant level has stabilized, shut off the engine.
49. Reinstall the plastic panel over the driver-side subframe, and secure it with the three bolts. (3x 10mm bolts)
50. Install the screw and pop-clip that secure the rear portion of the fender liner on the driver side. (1x T15 Torx screw, 1x pop-clip)
51. Push the fender liners back into place, and make sure the edges are fully seated behind the ducting. Then secure both liners with the original hardware. (14x T15 Torx screws, 2x pop-clips)
52. Install the splash panel to the underside of the vehicle, and secure it with the original hardware. (4x 7mm screws, 6x 10mm bolts)

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## INSTALLATION GUIDE



- 53.** Install both air diverters to the vehicle, and secure them with the 10 original screws. If you forgot which side is which, look on the underside of the diverters. The driver side will be marked LH, and the passenger side will be marked RH. (10x 7mm screws)
- 54.** Install the four screws that secure the splash panel to the fender liner. (4x 7mm screws)
- 55.** Install the eight screws that secure the front edge of the bumper. (8x 7mm screws)

- 56.** Reinstall the front wheels, and secure them with the 10 lug nuts. Torque the lug nuts to 140 ft-lb in a star pattern. (10x 22mm lug nuts)
- 57.** The engine should be relatively cool at this point. Top off the coolant and install the expansion tank pressure cap. Coolant level should be checked once more after putting in some miles. Remember that the cooling system should never be opened when the engine is hot.

**Congrats! You just finished installing the 2016 Camaro SS Radiator Hose Kit.**

