

# 2016+ CAMARO 2.0T

## RADIATOR HOSES (W/ HD COOLING SYSTEM)

### INSTALLATION GUIDE AND PARTS LIST



#### PARTS LIST

**1 PC** | UPPER RADIATOR HOSE

**1 PC** | LOWER RADIATOR HOSE

**6 PC** | WORM-GEAR CLAMPS

#### TOOLS NEEDED

T15 SOCKET	1/2" DRIVE BREAKER BAR
T30 SOCKET	FLATHEAD SCREWDRIVER
7MM SOCKET	PANEL TOOL
10MM SOCKET	CHANNELLOCK PLIERS
1/4" DRIVE RATCHET	LINEMAN PLIERS
1/4" DRIVE EXTENSION(S)	NEEDLENOSE PLIERS
22MM SOCKET	DRAIN PAN

**INSTALLATION TIME** **2 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.** Loosen the clamp that secures the air intake to the turbocharger inlet. (1x worm-gear clamp)



- 03.** Disconnect the CCV hose from the intake by sliding the locking tab over and pulling the hose off the port. *Note: On newer models, this hose cannot be disconnected.*



- 04.** Disconnect the mass airflow (MAF) sensor and release the harness from the intake tubing. To release the connector, slide the red locking tab up, depress the black tab and pull the connector off the sensor.



- 05.** Separate the intake from the turbocharger and remove the intake assembly by lifting it upward. The airbox is held in by three pegs and grommets.
- 06.** 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)



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- 07.** 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)



- 08.** If equipped, remove the four nuts that secure the stock HD oil cooler to the underside of the vehicle. Slide the oil cooler off the studs to access the petcock on the radiator. (4x 10mm nuts)



- 09.** Place a drain bucket underneath the petcock on the radiator and use a pair of pliers to open the petcock. Remove the pressure cap from the expansion tank to expedite the draining process. Close the petcock on the radiator once all the coolant has drained.



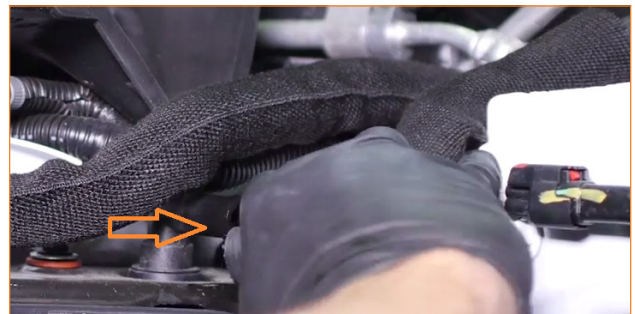
- 10.** If equipped, reinstall the stock HD cooler and secure it with the four nuts you removed earlier. (4x 10mm nuts)
- 11.** Remove the front wheels from the vehicle. It is possible to perform this install without removing the wheels, but it makes accessing everything much easier. (10x lug nuts)

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

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



- 14.** Place a drain bucket under the driver-side auxiliary (aux) radiator. Cut the zip tie that secures the protective sleeve to the inner hose. Compress the clamp that secures this hose and move the clamp down the hose. Remove the hose from the radiator. (1x worm-gear clamp)



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

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

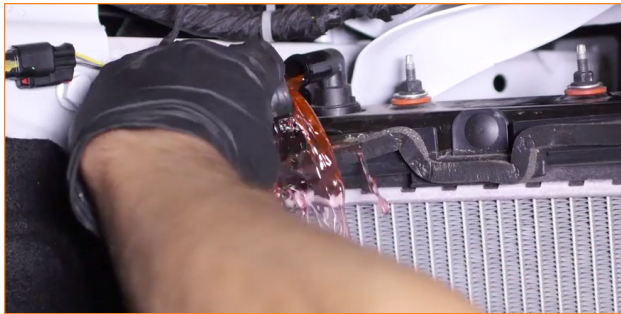
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- 17.** Place a drain bucket under the passenger-side auxiliary radiator. Separate the tree-clip that secures the lower radiator hose to the frame rail. Compress the clamp that secures the lower radiator hose to the passenger-side auxiliary radiator and slide the clamp down the hose. Then remove the hose from the auxiliary radiator. (1x tree clip, 1x spring-clamp)



- 18.** Lead the loose hose end under the frame rail and into the engine bay.
- 19.** Remove the oil filler cap.
- 20.** Remove the bolt that secures the engine cover to the engine and remove the engine cover. (1x T30 Torx bolt)
- 21.** Compress the clamp that secures the overflow hose to the coolant pipe on the valve cover and slide the clamp down the hose. Then separate the hose from the pipe. (1x spring-clamp)



- 22.** Compress the clamp that secures the overflow hose to the expansion tank and slide the clamp down the hose. (1x spring-clamp)



- 23.** Compress the clamp that secures the overflow hose to the radiator and slide the clamp down the hose. (1x spring-clamp)



- 24.** Remove the overflow hose from the vehicle.
- 25.** Compress the clamp that secures the upper radiator hose to the radiator and slide the clamp down the hose. Then remove the hose from the radiator. (1x spring-clamp)



- 26.** Compress the clamp that secures the upper radiator hose to the engine and slide the clamp down the hose. Then remove the hose from the engine. (1x spring-clamp)



- 27.** Remove the upper radiator hose from the vehicle.

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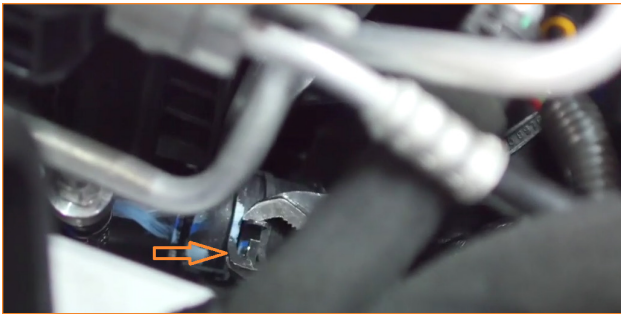
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- 28.** Separate the tree-clip that secures the harness to the AC compressor. Compress the clamp that secures the lower radiator hose to the engine and slide the clamp down the hose.



- 29.** 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)



- 30.** Remove the lower radiator hose from the vehicle.
- 31.** Lubricate the inner lip of each end of the lower radiator hose. Install one of the provided clamps over each end of the hose. Lower the hose into place and lead the auxiliary radiator end under the AC line as shown here. Attach the hose to the primary radiator first, and then to the engine and the auxiliary radiator. Tighten all three clamps to secure the hose. (3x worm-gear clamps)



- 32.** Lubricate the inside lip of each end of the upper radiator hose with fresh coolant and lower the hose into place. Lead the auxiliary radiator end of the hose first, passing it under the frame.

Slip one of the provided worm-gear clamps over the radiator end of this hose and install the hose to the radiator. Repeat this process with the other two ends of the hose, and then tighten all the clamps. (3x worm-gear clamps)

- 33.** Locate the overflow hose included with your kit. Install one of the provided worm-gear clamps over each end of the hose and install the hose to the vehicle. Position each clamp over the bead roll of its connection and tighten the clamp to secure the hose. (3x worm-gear clamps)
- 34.** Reinstall the air intake. Slip the fresh air duct of the airbox into place under the radiator support. Install the intake hose to the turbocharger inlet and tighten the clamp that secures it. Align the pegs on the airbox with the grommets on the body of the car and push the airbox down to engage them. Install the CCV hose to the intake if you disconnected it earlier. You will hear an audible click when the hose is engaged. Connect the MAF harness to the intake tube and reconnect the MAF sensor. Lock the connector with the red tab. (1x worm-gear clamp)
- 35.** Reinstall the engine cover. There are two tabs at the back of the valve cover that must slip into the housing underneath the wiper cowl. Install the bolt that secures the engine cover to the valve cover and reinstall the oil filler cap. (1x T30 Torx bolt)
- 36.** 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 heat 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, shut off the engine. The coolant level should be checked once more after putting in some miles.
- 37.** Push the driver side fender liner back into place and make sure the edges are fully seated behind the ducting. Then secure the fender liner with the original hardware. Repeat this process on the passenger side. (14x T15 Torx screws, 2x pop-clips)
- 38.** Install the splash panel to the underside of the vehicle and secure it with the original hardware. (4x 7mm screws, 6x 10mm bolts)
- 39.** Install both air diverters to the vehicle and secure them with the original hardware. 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)
- 40.** Reinstall the front wheels. Torque the lug nuts to 140 lb-ft in a star pattern.

**Congrats! You just finished installing the 2016+ Camaro 2.0T Radiator Hoses with HD Cooling System.**

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