

# 2016+ FOCUS RS RADIATOR HOSES

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

- 1 PC | SILICONE INTAKE ELBOW
- 1 PC | PLASTIC INJECTION MOLDED MAF SENSOR HOUSING
- 1 PC | HIGH-FLOW, OILED FILTER
- 1 PC | STEEL AIRBOX
- 3 PC | WORM-GEAR CLAMPS
- MOUNTING HARDWARE

### TOOLS NEEDED

- |                 |                      |
|-----------------|----------------------|
| 2.5MM ALLEN KEY | 1/4" DRIVE RATCHET   |
| 4MM ALLEN KEY   | 1/4" DRIVE EXTENSION |
| 10MM SOCKET     | FLATHEAD SCREWDRIVER |
| 12MM SOCKET     | PANEL TOOL           |
| T20 TORX SOCKET |                      |

**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

**Caution:** Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely before servicing it in any way.

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 two pop-clips that secure the undertray to the stabilizer bar. (2x pop-clips)



03. Remove the eight Torx screws and two pop-clips that secure the undertray to the bottom of the vehicle. Slide the undertray forward and remove it from the vehicle. (8x T30 Torx screws, 2x pop-clips)



04. Remove the seven Torx screws that secure the rear edge of the splash panel to the vehicle. (7x T30 Torx screws)



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- 05.** Remove the Torx screw and pop-clip that secure the splash panel to the bumper in the driver-side wheel well. Repeat this process on the passenger side. (2x T30 Torx screw, 2x pop-clip)



- 06.** Remove the seven Phillips pop-clips that secure the front edge of the splash panel to the bumper. (7x Phillips pop-clips)



- 07.** Release the outside edges of the splash panel from the front bumper. Then remove the splash panel from the vehicle.

- 08.** Locate the petcock on the passenger side of the radiator. Place a drain bucket underneath the radiator mounting peg and open the petcock to drain the coolant. Remove the pressure cap from the expansion tank to accelerate the draining process.



- 09.** Remove the engine cover by lifting it directly upward. The cover is held on by four pegs and grommets.

- 10.** Remove the two Torx screws that secure the passenger-side headlight to the vehicle. Slide the headlight forward to remove it from the vehicle. Note the tab on the headlight and the slot on the body for reassembly, and then disconnect the electrical harness from the headlight. Repeat this process on the driver-side headlight. This will give you easy access to the radiator hose connections. (4x T30 screws)



- 11.** Reach through the hole where the passenger-side headlight was mounted to access the lower radiator hose connection on the engine. Compress the clamp that secures this connection, and then separate the hose from the engine. (1x spring-clamp)



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- 12.** Compress the clamp that secures the lower radiator hose to the radiator, and then separate the hose from the radiator. (1x spring-clamp)



- 13.** Remove the lower radiator hose from the vehicle.
- 14.** Lubricate each end of the Mishimoto lower hose with fresh coolant and install a pair of worm-gear clamps. Lower the hose into place and attach it to the radiator and engine. Then tighten the clamps to secure the hose. (2x worm-gear clamps)
- 15.** Separate the clip that secures the coolant bypass line to gain access to the upper radiator hose connection at the plastic coolant housing. Compress the clamp that secures the hose, and then separate the hose from the coolant housing. (1x spring-clamp)



- 16.** Compress the clamp that secures the upper radiator hose to the radiator, and then separate the hose from the radiator. (1x spring-clamp)



- 17.** Separate the upper radiator hose from the plastic clip that secures it, and then remove the hose from the vehicle.
- 18.** Lubricate each end of the Mishimoto upper hose with fresh coolant and install a pair of worm-gear clamps. Lower the hose into place through the headlight area and install it to the coolant housing and the radiator. Then tighten the clamps to secure the hose. (2x worm-gear clamps)
- 19.** Reinstall the clips that secure the coolant line and the radiator hose.
- 20.** Reconnect the electrical harness to the driver-side headlight and slide the headlight into place. Then secure the headlight with the original Torx screws. Repeat this process on the passenger's side. (4x T30 Torx screws)
- 21.** Close the petcock on the radiator.
- 22.** Fill the cooling system with premixed, Ford-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 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. Reinstall the pressure cap to the expansion tank.
- 23.** Reinstall the splash shield and tuck the corners behind the bumper cover. Install the seven Torx screws and seven Phillips pop-clips that secure the underside of the splash shield. Then secure the corners of the splash shield with the two pop-clips and Torx screws. (9x T30 screws, 7x Phillips pop-clips, 2x pop-clips)
- 24.** Reinstall the undertray. There are two tabs on the subframe that fit into slots on the undertray. Install the pop-clips that secure the undertray to the stabilizer bar. (2x pop-clips)
- 25.** Install the eight Torx screws and two pop-clips that secure the undertray to the bottom of the vehicle. (8x T30 Torx screws, 2x pop-clips)
- 26.** Reinstall the engine cover.

**Congrats! You just finished installing the 2016+ Focus RS Radiator Hoses.**

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