

# 2013+ FORD FOCUS ST RADIATOR HOSE KIT

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

**1 PC** | SILICONE UPPER HOSE WITH ASSEMBLED QUICK-DISCONNECT FITTING

**1 PC** | SILICONE LOWER HOSE WITH ASSEMBLED QUICK-DISCONNECT FITTING

**2 PC** | 32-50MM STAINLESS STEEL WORM-GEAR CLAMPS

### TOOLS NEEDED

7MM SOCKET	FLATHEAD SCREWDRIVER
1/4" DRIVE UNIVERSAL SWIVEL	T30 TORX SOCKET
1/4" DRIVE EXTENSION	POP-CLIP PLIERS
1/4" DRIVE RATCHET	DRAIN BUCKET

### INSTALLATION TIME **TWO 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 your Focus 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 hardware that secures the fender liner to the bumper cover on both sides of the vehicle. (4x T30 Torx screws, 2x pop-clips)
03. Remove the six pop-clips that secure the splash panel to the bottom of the front bumper cover. (6x pop-clips)
04. Remove the air diverter. There are three Torx screws holding it in place. (3x T30 Torx screws)

05. Remove the eight Torx screws that secure the rear undertray, and remove the rear undertray. (8x T30 Torx screws)
06. Remove the splash panel. There are four Torx screws holding it in place. (4x T30 Torx screws)
07. Loosen the two clamps that secure the driver-side intercooler coupler. Then remove the intercooler coupler and clamps from the vehicle. (2x worm-gear clamps)
08. Place a drain pan under the driver-side corner of the radiator, and install a short piece of hose over the drain tube. Then loosen the radiator drain plug to drain the cooling system. Remove the pressure cap on the expansion tank to accelerate the draining process. Tighten the drain plug when the coolant is finished draining.
09. Release the quick-disconnect clip that secures the lower radiator hose to the radiator by sliding it away from the connector. Then work the radiator hose off the radiator. These connections are often very tight, so take your time to avoid damaging the hose connection.
10. Loosen the two worm-gear clamps that secure the rubber intake hose to the airbox and intake pipe. Then remove the rubber intake hose from the vehicle. The lower radiator hose connection should now be visible.
11. There are several plastic clips that secure other lines to the lower radiator hose. Disconnect these clips by sliding them off the radiator hose.
12. Compress the clamp that secures the lower radiator hose to the engine, and slide it down the hose. Then pull the hose off the water neck on the engine. Remove the hose by pulling it out from underneath the vehicle.
13. Remove the engine cover by lifting it upward, off the mounting pegs.
14. Compress the spring clamp that secures the upper radiator hose to the engine, and slide it down the hose.
15. Release the quick-disconnect clip that secures the upper radiator hose to the radiator. Then work the radiator hose off the radiator. These connections are often very tight, so take your time to avoid damaging the hose connection.
16. Work the upper radiator hose off the engine, then remove the hose from the vehicle. This hose will still have quite a bit of coolant left in it due to the looped design, so be careful to keep it upright when removing it from the vehicle.
17. Locate the Mishimoto upper radiator hose, and lubricate the inside edge of both ends with fresh coolant. Install one of the supplied worm-gear clamps over the radiator hose. (1x worm-gear clamp)
18. Install the quick-disconnect fitting of the upper radiator hose to the port on the passenger side of the radiator. You will hear a click when the hose is fully engaged. Give the hose a sharp tug to make sure it is properly connected.

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19. Install the other end to the water neck on the engine. Secure the hose to the engine with the worm-gear clamp. Tip: Use a 1/4" extension and a 7mm swivel socket to tighten the worm-gear clamp.
20. Locate the Mishimoto lower radiator hose, and lubricate the inside edge of both ends with fresh coolant. Install one of the supplied worm-gear clamps over the radiator hose. (1x worm-gear clamp)
21. Lower the hose into place. From underneath the vehicle, install the quick-disconnect fitting to the port on the driver side of the radiator. You will hear a click when the hose is fully engaged. Give the hose a sharp tug to make sure it is properly connected.
22. Install the driver-side intercooler coupler you removed earlier, and secure it with the two worm-gear clamps. (2x worm-gear clamps)
23. Install the other end of the lower radiator hose to the water outlet on the engine, located under the intake pipe. Secure this hose with the worm-gear clamp you installed earlier. Tip: Use a 1/4" extension and a 7mm swivel socket to tighten the worm-gear clamp.
24. Install the rubber intake hose to the airbox and the intake pipe. Secure the hose with the integrated worm-gear clamps.
25. Install the engine cover by pushing it down over the mounting pegs.
26. Fill the 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 the 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.
27. Install the splash panel, and secure it with the original hardware. (4x T30 Torx screws, 6x pop-clips)
28. Install the rear undertray, and secure it with the original hardware. (8x T30 Torx screws)
29. Install the air diverter, and secure it with the three Torx screws you removed earlier. (3x T30 Torx screws)

**Congrats! You just finished installing the 2013+ Ford Focus ST Radiator Hose Kit.**



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