

2014+ FORD FIESTA ST EXPANSION TANK

PARTS LIST AND INSTALLATION GUIDE



PARTS LIST

1PC | ALUMINUM EXPANSION TANK WITH SIGHT GLASS

1PC | OVERFLOW HOSE

1PC | RUBBER SLEEVES

TOOLS NEEDED

FLATHEAD SCREWDRIVER

NEEDLENOSE OR
CHANNELLOCK PLIERS

PHILLIPS SCREWDRIVER

COOLANT DRAIN BUCKET

1/4" DRIVE RATCHET

FORD-APPROVED COOLANT

1/4" DRIVE 3" EXTENSION

10MM SOCKET

INSTALLATION TIME **1 HOUR**

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; a 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.

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.

INSTALLATION INSTRUCTIONS

1. Start by removing the passenger-side headlight.
2. Remove the two bolts that secure the headlight. [2x flathead/T30 Torx bolts]
3. Remove the Phillips-head pop-clip that secures the headlight. Remove the Phillips-head screw, and then remove the pop-clip completely. [1x Phillips-head pop-clip and screw]
4. Slide the headlight assembly back, toward the cabin, and lift it upward.
5. Disconnect the electrical harness from the headlight assembly, and remove the headlight completely.
6. Remove the expansion tank from the two mounting pegs that secure it. Lift the tank up off the pegs to free it from the vehicle.
7. Instead of draining the entire cooling system, you can cut an old plastic bottle so it will fit under the expansion tank. By using this method, you need to drain only the tank.



8. Remove the upper coolant line by squeezing the clip and pulling the line out of the bottle.
9. Remove the middle coolant line by squeezing the knurled tabs on the line and pulling the line out of the bottle.
10. At this point you can drain the expansion tank into your container. The draining process can be accelerated by removing the pressure cap.
11. Once the expansion tank is mostly drained, remove the bottom hose. Squeeze the constant-tension clamp with pliers and pull the hose off the tank. There will still be coolant in the hose, so keep that container handy to capture any spillage.
12. Remove the stock expansion tank from the vehicle. Remove and save the pressure cap, as it will be used on the Mishimoto expansion tank.

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13. Tuck the hoses up and out of the way to keep them from dripping while you install the expansion tank.
14. Remove the 10mm nut that secures the AC line to the top of the strut tower, and lift the AC line bracket off the stud. (1x 10mm socket)
15. Locate the rubber sleeves in the expansion tank kit. These sleeves install over the stock mounting pegs to prevent noise and vibration. Simply slide a sleeve over each mounting peg. They are slightly different, so pay attention to the width before you install them.
16. Locate the drain hose in the kit, and attach it to the overflow nipple on the filler neck of the expansion tank. No clamp is needed. Route this hose behind the tank.



17. The slotted brackets on the Mishimoto tank will slip over the stock mounting pegs. The hole on the top of the tank installs over the stud on the strut tower (where the AC line bracket is mounted).
18. Slide the tank under the AC line and into position. Install the tank over the stud, and slip the mounting pegs into the slots on the tank. The AC line bracket should be sandwiched between the expansion tank and the strut tower when properly installed. Ensure that the overflow hose is not pinched between the strut tower and the expansion tank.
19. Install the 10mm nut that secures the expansion tank and AC line bracket. (1x 10mm nut)
20. Install the upper and middle coolant lines. Both lines are push-to-lock and will click when fully installed.
21. Install the bottom coolant line, and secure it with the stock clamp.
22. Install the headlight assembly. Ensure that the white mounting clip on the frame rail is oriented correctly to accept the dowel rod on the bottom of the headlight. This clip can rotate in the frame and may have shifted during headlight removal.

23. Take the leading edge of the headlight, and slip it under the front bumper cover. Tilt the headlight so you can slip the tabs on the bottom edge of the headlight under the bumper cover. Lower the headlight into place.
24. Locate the hooked tab near the rear bolt hole. Slip this tab into the fender, and then slide the assembly forward to align the bolt holes.
25. Install the two bolts that secure the headlight. (2x flathead/T30 Torx bolts)
26. Install the Phillips-head pop-clip. Insert the lower section of the pop-clip, and then push the Phillips-head screw into the lower section. (1x Phillips-head pop-clip)
27. Fill the system with premixed, Ford-approved coolant through the expansion tank 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 top off the coolant level.
28. Install the stock pressure cap on the Mishimoto expansion tank.

Congrats! You just finished installing the 2014+ Ford Fiesta St Expansion Tank.



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