

2008-2010 FORD 6.4L POWERSTROKE TRANSMISSION COOLER PARTS LIST & INSTALLATION GUIDE



PARTS INCLUDED

- 1PC** Mishimoto Stacked-Plate Transmission Cooler
- 2PC** Mounting Brackets
- 1PC** Transmission Oil Cooler Hose
- 1PC** Mounting Hardware

TOOLS NEEDED

- 7mm Socket
- 10mm Socket
- 10mm Deep Socket
- 11mm Socket
- 14mm Ratcheting Wrench
- 10mm Ratcheting Wrench
- ¼" Drive Ratchet
- Pliers

INSTALL TIME 30 Minutes

INSTALL DIFFICULTY

DISCLAIMER

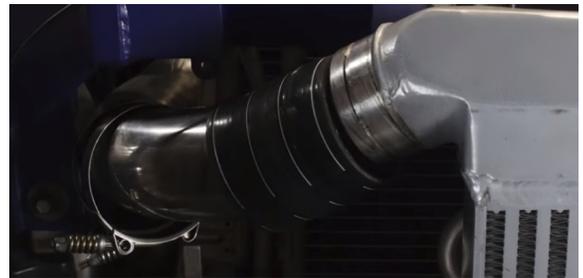
- Our install was done on a modified application. The hardware sizes shown here will likely be different than the hardware used on the stock vehicle.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can 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.

INSTALL PROCEDURE

1. Remove the bolts holding the fuel cooler to the intercooler. Lean the fuel cooler back and let it rest in place. (1x 10mm bolt, 1x 11mm bolt)



2. Loosen the clamps on the coupler between the intercooler and hot-side pipe. Slide the coupler off the intercooler end tank. (2x t-bolt clamps)



3. Loosen the clamps on the coupler between the intercooler and cold-side pipe. Slide the coupler off the intercooler end tank. (2x t-bolt clamps)



4. Remove the two bolts that secure the intercooler brackets to the support bar. (2x 14mm bolts)



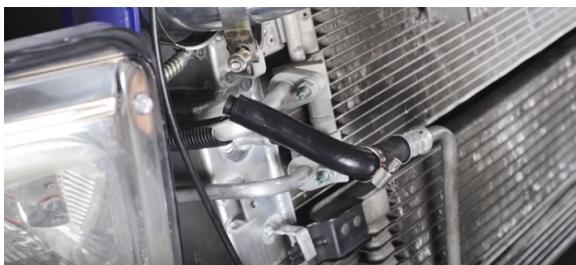
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5. Lift the intercooler up from behind the bumper and remove it.
6. Lower the fuel cooler down and rest it on the bumper so it is not in the way.
7. Compress the clamp securing the transmission cooler line to the radiator and slide the hose off the port. Using rubber plugs during this step will help prevent excess fluid from leaking out of both the port and the hose.
(1x worm gear clamp, or 1x spring clamp)



8. Compress the clamp securing the cooler line to the transmission cooler and slide the hose off the port. Again, use rubber plugs to prevent unnecessary spillage. (1x spring clamp)



9. Separate the transmission cooler brackets from both sides of the radiator. Then, remove the transmission cooler. (2x 10mm bolts)
10. Organize the hardware included in your kit. Notice there is a separate longer bolt and spacer. These need to be used if you are installing this with a Mishimoto radiator. If the transmission cooler is being installed with a stock radiator, then you will only use the four smaller bolts in addition to the included washers to install the brackets to the cooler.

11. Attach the included brackets to the sides of your Mishimoto transmission cooler. One is marked R to indicate which side each belongs to. Leave them loose for now. They will need to be fully tightened later once the cooler is on the truck. (2x 10mm bolts)



12. Install the Mishimoto transmission cooler. Position the top of the cooler brackets underneath the two tabs on the radiator. Secure the brackets with the provided hardware. If you have a Mishimoto rad installed, place the spacer behind the bracket.



Spacer positioning shown below.



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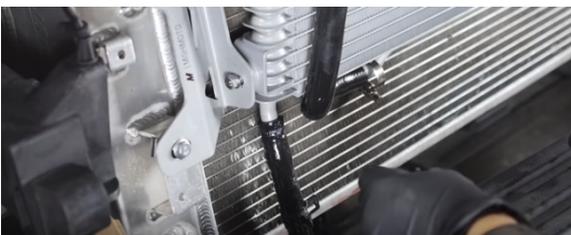
13. Adjust the position and angle of the transmission cooler so that it fits appropriately. Then, tighten the bolts on the transmission cooler brackets.
14. There is a bracket positioned on the top of the transmission cooler to hold the bottom power-steering cooler line. Make sure the power-steering cooler line is within this bracket.



15. Install the provided hose to the radiator and transmission cooler ports. Be sure to slide a clamp on each end before attaching them to the ports. (2x worm gear clamps)



16. Reinstall the hose to the port on the bottom of the transmission cooler. Secure the connection with the clamp still on the hose. (1x spring clamp)



17. Lift the fuel cooler up and lower it into the

- bushing so it can rest in place.
18. Reinstall the intercooler, making sure to engage the rubber grommets at the base and securing the top brackets with the original hardware. (2x 14mm bolts)
19. Secure the fuel cooler to the side of the intercooler. (1x 10mm bolt)
20. Tighten the bolt to secure the fuel cooler to the bushing. (1x 11mm bolt)
21. Reconnect the couplers to the intercooler's inlet and outlet, and then tighten the clamps. (4x t-bolt clamps)
22. Refill your transmission fluid to the proper level.

Congratulations! You have finished installing the Mishimoto 2008-2010 Ford 6.4L Powerstroke Transmission Cooler.