

2011+ FORD 6.7L POWERSTROKE AIR-TO-WATER PERFORMANCE INTERCOOLER KIT PARTS LIST & INSTALLATION GUIDE



PARTS INCLUDED

- 1PC Mishimoto Air-to-Water Intercooler
- 1PC Mandrel-Bent Cold-Side Pipe
- 1PC Mandrel-Bent Hot-Side Pipe
- 1PC CNC-Machined Aluminum Quick-Disconnect Couplers
- 4PC Silicone Boots w/ DuraCore™ Technology
- 8PC Constant Tension Worm Gear Clamps
- 1PC Mounting Hardware

TOOLS NEEDED

- 7mm Socket
- 8mm Socket
- 10mm Socket
- 11mm Socket
- 13mm Socket
- ¼" Drive Ratchet & Extension
- ¼" Swivel Extension
- Pliers
- Pick Tool/Flathead Screwdriver

INSTALL TIME 2 HOURS

INSTALL DIFFICULTY

DISCLAIMER

- 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 NOTE

You can use Mishimoto's intercooler with the stock pipes on 2011-2016 6.7L Powerstrokes. However,

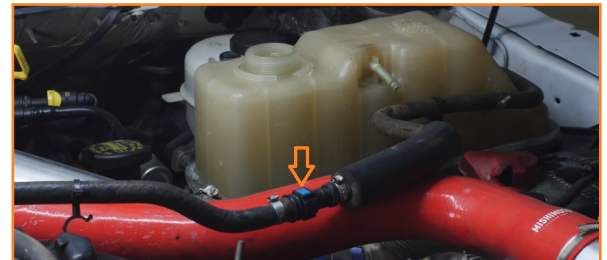
with 2017+ Powerstrokes, you must use the cold-side pipe included in your kit.

INSTALL PROCEDURE

1. Drain the coolant from both primary and secondary coolant systems.
2. Separate the coolant hose from the reservoir tank. Compress the clamp on the connection and slide it down the hose. Then pull the hose off the port.



3. Detach the quick-disconnect above the upper radiator hose. Press the blue tab at the center and pull the quick-disconnect off the port.



4. Use a pick tool or flathead screwdriver to remove the clip that secures the upper radiator hose. Slide the upper radiator hose off the radiator. (1x spring clip)



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5. Loosen the clamp on the hot-side pipe connections and remove it from the vehicle. (1x spring clip, 1x worm gear clamp)



6. Disconnect the air temperature sensor from the cold-side pipe.



7. Release both ends of the cold-side pipe. You will need an extension to reach the clamp on the one end. With the pipe now free, remove it from the vehicle. (1x spring clip, 1x worm gear clamp)



8. Compress the clamp on the small hose connected to your intercooler, and then slide the hose off the port. (1x spring clamp)



9. Release the quick-disconnect from the intercooler. Pinch the tabs and pull the connection off the port.



10. Remove the battery from the vehicle. Release the negative side first, then the positive side. (2x 10mm nuts, 2x 8mm nuts)
11. Remove the battery tie down. (2x 10mm bolts)
12. Remove the bolts that secure the intercooler, and then pull it out. (2x 13mm bolts)



13. Transfer the grommets, spacers, and hardware from the stock intercooler to the Mishimoto intercooler. There is one on top of the intercooler, on the port, to allow for the quick-disconnect to attach. There are two grommets on the sides and a spacer at the bottom on the back of the intercooler.



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14. Lower the intercooler into position and secure it with the provided hardware. (2x 13mm bolts)
15. Transfer the spring clip and O-ring onto the hot-side connector pipe. (1x spring clip)



16. Attach the transition coupler to the small hot-side pipe. Then connect the small section of the hot-side pipe and coupler to the turbo. (1x 79/87 T-bolt clamp)
17. Attach the straight coupler to the second hot-side pipe that has a bend in it. Then install the pipe and coupler connection to the smaller hot-side pipe that's on the turbo. (2x 79/87 T-bolt clamps)



18. Connect the open end of the straight hot-side coupler to the intercooler. (1x 79/87 T-bolt clamps)



19. Attach the large coupler with a bend to your cold-side pipe, specifically on the end farthest from the sensor. (1x 79/87 T-bolt clamp)



20. Install the cold-side pipe to the intercooler. (1x 79/87 T-bolt clamp)
21. Install the transition coupler over the cold-side pipe. (1x 79/87 T-bolt clamp)
22. Transfer the spring clip onto the cold-side connector pipe and install the connector to the throttle body and coupler. (1x 95/103 T-bolt clamp, 1x spring clip)



23. Fully tighten all clamps on the pipe and coupler connections.
24. Transfer the air temperature sensor from the stock pipe onto your Mishimoto cold-side pipe. Next, reconnect the air temperature electrical harness to the sensor.

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25. Reinstall the quick-disconnect and other hose onto the intercooler. (1x spring clamp)
26. Reinstall the upper radiator hose. (2x spring clips)
27. Reattach the coolant hose to the reservoir tank. Then link the quick-disconnect hose. (1x spring clamp)
28. Reinstall the battery, including the bracket. (4x 10mm nuts, 2x 8mm nuts)
29. Fill both the primary and secondary systems with Ford-approved coolant.

Congratulations! You have finished installing the Mishimoto 2011+ Ford 6.7L Powerstroke Air-to-Water Performance Intercooler Kit.