

# 2015+ MUSTANG ECOBOOST INTERCOOLER PIPE KIT PARTS LIST AND INSTALLATION GUIDE



## PARTS LIST

- 1 PC** | ALUMINUM PIPE W/ CNC-MACHINED NPT BUNG
- 1 PC** | ALUMINUM PIPE W/ CNC-MACHINED BPV FLANGE
- 4 PC** | SILICONE COUPLERS
- 1 PC** | 2.0" T-BOLT CLAMP
- 4 PC** | 2.75" T-BOLT CLAMPS
- 3 PC** | 3.0" T-BOLT CLAMPS

## TOOLS NEEDED

- |                  |                      |
|------------------|----------------------|
| 5MM ALLEN KEY    | ¼" DRIVE EXTENSION   |
| 5.5MM SOCKET     | ¼" DRIVE RATCHET     |
| 7MM SOCKET       | FLATHEAD SCREWDRIVER |
| 10MM DEEP SOCKET | CHANNELLOCK PLIERS   |
| UNIVERSAL SWIVEL |                      |

**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; 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 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 airbox to access the cold-side intercooler pipe connection. Loosen the worm-gear clamp that connects the airbox to the rubber intake boot. Remove the bolt that holds the airbox to the inner wheel well. Disconnect the intake air temperature sensor's electrical connector. Remove the airbox by lifting up upward, and then tilt the airbox so the inlet duct will clear the radiator support. (1x 10mm bolt)
03. Loosen the clamp that secures the cold-side intercooler pipe to the throttle body.
04. Loosen the clamp that secures the hot-side intercooler pipe to the turbocharger outlet.
05. Compress the clamp that holds the bypass hose to the bypass valve, and slide it up the hose. Then remove the hose from the bypass valve outlet.
06. From underneath the vehicle, remove the fasteners that secure the undertray to the vehicle. Then remove the undertray. (14x 7mm bolts, 6x pop-clips, 2x 5.5mm bolts)
07. Loosen the worm-gear clamp on the cold-side pipe where it connects to the intercooler.
08. Loosen the worm-gear clamp on the hot-side pipe where it connects to the intercooler.
09. Disconnect the electrical harness from the bypass valve and set it aside.
10. Disconnect the two tree-clips that hold the wire harness onto the hot-side intercooler pipe. (2x tree-clips)
11. Disconnect the hot-side intercooler pipe from the turbocharger, and then disconnect it from the intercooler. Remove the hot-side pipe by lifting it up and out of the engine bay.
12. Disconnect the cold-side intercooler pipe from the throttle body, and then disconnect it from the intercooler. Remove the cold-side pipe from the vehicle by lifting it up and out of the engine bay.
13. Remove the three Allen bolts that secure the bypass valve to the hot-side intercooler pipe. (3x 5mm Allen bolts)
14. Transfer the bypass valve to the Mishimoto hot-side pipe, and secure it with the three Allen bolts you just removed. Orient the valve in the same direction as it was on the stock hot-side pipe. (3x 5mm Allen bolts)

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15. Attach the hot-side intercooler coupler to the intercooler. The shorter end of the coupler installs onto the intercooler. Slip two T-bolt clamps over the coupler, but don't tighten them yet. (2x T-bolt clamps)
16. Install the provided transition coupler to the Mishimoto hot-side pipe. The wider end installs over the pipe. Slip two T-bolt clamps over the transition coupler, but do not tighten them yet. (2x T-bolt clamps)
17. Install the hot-side pipe. Slip the bottom of the hot-side pipe into the coupler at the intercooler, and then install the pipe to the turbocharger.
18. Reinstall the bypass valve hose, and slide the spring clip back into place.
19. Connect the electrical harness to the bypass valve.
20. Make sure the clamps are positioned over the bead roll of the hot-side intercooler pipe, and then tighten all the clamps.
21. Install the cold-side intercooler coupler to the intercooler. Slip two T-bolt clamps over the coupler, but do not tighten them yet. (2x T-bolt clamps)
22. Locate the bung on the cold-side intercooler pipe, and install the throttle body coupler over this end. Slip two T-bolt clamps over the coupler, but do not tighten them yet. (2x T-bolt clamps)
23. Install the cold-side pipe. Slip the bottom of the pipe into the coupler at the intercooler, and then install the coupler over the throttle body. Position the clamps over the bead roll of the pipe, and then tighten them.
24. Reinstall the undertray and secure it with the original hardware. (14x 7mm bolts, 6x pop-clips, 2x 5.5mm bolts)
25. Lower the airbox into place, and slip the intake boot over the airbox outlet. Connect the intake air temperature sensor, and secure the airbox with the original bolt. Then tighten the clamp that secures the airbox to the intake boot. (1x 10mm)

**Congrats! You just finished installing the 2015+ Mustang EcoBoost Intercooler Pipe Kit.**



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