

## PARTS INCLUDED

- 2PC** Mishimoto Charge Pipes
- 1PC** Mounting Hardware Pack

## TOOLS NEEDED

- 1/4" Drive Ratchet
- 1/4" Drive Extension
- 8mm Socket
- 10mm Socket
- 13mm Socket
- E11 Torx Socket
- 8mm Box Wrench
- Pick Tool

**INSTALL 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.

## INSTALL PROCEDURE

1. Reposition the two shroud pieces within the engine bay. Unscrew each quarter-turn screw, lift the edges tucked under trim pieces, and rotate the shroud pieces out toward the edge of the

engine bay. (6x 10mm plastic screws)



2. Remove the bolts that secure the front and ends of the strut bar. (8x 13mm bolts)



3. Remove the bolt that secures the primary expansion tank to the strut bar. (1x 10mm bolt)



4. Slide the strut tower back to clear it from the engine bay.



5. Lift the cover off the engine.

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6. Loosen the clamp on the intake tube.  
(1x worm gear clamp)



7. Disconnect the MAF sensor. Depress the black tab at the center to release the connection. Then lift the airbox out of the way.



8. Remove the bolt that secures the remainder of the intake to the turbo. With the intake now free, remove it from the engine bay. (1x 10mm bolt)



9. Remove the bolts that secure the intercooler pipes to the turbo. (2x E11 torx bolts)
10. Loosen the clamps at the pipe and intercooler connections. (2x worm gear clamps)



11. Pull away and up to remove each intercooler pipe.
12. Remove the O-rings from the stock pipes. Be careful not to damage them in the process. Insert the O-rings into your Mishimoto pipes.



13. Attach a silicone coupler to the back intercooler pipe. Then set the back pipe on the turbo and slide the coupler onto the intercooler.  
(1x E11 torx bolt, 2x worm gear clamps)



14. Attach a silicone coupler to the front intercooler pipe. Then set the front pipe and slide the coupler onto the intercooler.  
(1x E11 torx bolt, 2x worm gear clamps)

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15. Tighten the clamps on both intercooler pipes.
16. Using an 8mm box wrench, tighten down the torx bolts on both intercooler pipes.
17. Reinstall the lower portion of the intake.  
(1x 10mm bolt)
18. Reinstall the rest of the intake.  
(1x worm gear clamp)
19. Reconnect the MAF sensor.
20. Place the cover over the engine.
21. Reinstall the strut bar. The two longer bolts secure the front of the bar. (8x 13mm bolts)
22. Secure the primary expansion tank to the strut bar. (1x 10mm bolt)
23. Align the corners of the upper shroud pieces. Slightly bend the edges so they are set underneath the liners.
24. Secure the shroud pieces with the original hardware. (6x 10mm plastic screws)

**Congratulations! You have finished installing the Mishimoto 2015–2020 BMW F8X M3/M4 Performance Charge Pipe Kit.**