

## PARTS INCLUDED

- 1PC** Mishimoto Performance Intercooler
- 1PC** Mounting Hardware Pack

## TOOLS NEEDED

- 1/4" Drive Ratchet
- 1/4" Drive Extension
- T25 Torx
- 3mm Allen Key
- Pick Tool
- Pliers

**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. Drain the expansion tank using a fluid transfer pump.



2. Disconnect the sensor on the side of the intercooler. Press the tab at the center of the connector to release the harness.



3. Loosen all the clamps on the intercooler pipes. (5x worm gear clamps)



4. Separate the quick-disconnects from the intercooler. Lift the clip on each one to free the connections. Place something underneath to catch residual fluid from these connections. (3x spring clips)

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**01**

# 2015–2020 BMW F8X M3/M4 PERFORMANCE AIR-TO-WATER INTERCOOLER INSTALLATION GUIDE



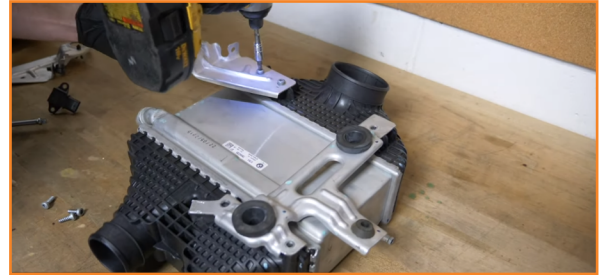
5. All connections to the intercooler at this point should be loose. Lift the cold side, and then slide the intercooler out at an angle.
6. Unscrew the expansion tank and temperature sensor from the intercooler. (4x T25 torx bolts)



7. Compress the clamp on the small hose connecting the expansion tank to the intercooler. Slide the small hose off the intercooler port. (1x spring clamp)



8. Detach the expansion tank from the intercooler.
9. Separate the brackets from the bottom of the intercooler. (5x T25 torx bolts)



10. Transfer the brackets to the Mishimoto intercooler. Secure them using the provided hardware. (5x M5 3mm Allen bolts)



11. Transfer the temperature sensor to the Mishimoto intercooler using the provided hardware. (2x M5 3mm Allen bolts)
12. Install the expansion tank to the intercooler using the provided hardware. (2x M5 3mm Allen bolts)
13. Attach the hose from the expansion tank to the intercooler. (1x spring clamp)
14. Place the intercooler in the engine bay. Align the pipes with the intercooler in the process.



15. Reattach the quick-disconnects. (3x spring clips)

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16. Secure the intercooler pipes to the intercooler.  
(5x worm gear clamp)
17. Reconnect the temperature sensor.
18. Refill the system with BMW-approved coolant.

**Congratulations! You have finished  
installing the Mishimoto 2015–2020  
BMW F8X M3/M4 Performance  
Air-to-Water Intercooler.**