



INSTALLATION GUIDE

PERFORMANCE AUXILIARY RADIATOR

FITS 2015-2020 BMW F8X M3/M4

SKU: MMRAD-F80-15A

TABLE OF CONTENTS

1. RESOURCES & CONTACT INFO
2. IMPORTANT SAFETY INFORMATION
 - INSTALL TIME & DIFFICULTY
 - REQUIRED TOOLS
 - INSTALLATION INSTRUCTIONS
5. DISPOSAL & WARRANTY INFORMATION

RESOURCES & CONTACT



CALL 1.877.466.4744

CUSTOMER SERVICE HOURS: MON-FRI 9:00AM-7:00PM ET



@MISHIMOTO



@GOMISHIMOTO



MISHIMOTO



@MISHIMOTO



ENGINEERING BLOG

WWW.MISHIMOTO.COM/ENGINEERING

IMPORTANT SAFETY INFORMATION

- › Mishimoto recommends you use safety glasses and protective gloves during the installation of our products
- › 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
- › If you need any assistance while installing our products, reach out to our Customer Service Team at 1.877.466.4744

REQUIRED TOOLS

8MM SOCKET
17MM LUG SOCKET
4MM HEX DRIVE SOCKET
T30 TORX SOCKET
¼ INCH RATCHET
½-INCH BREAKER BAR
½ INCH TORQUE WRENCH
PICK TOOL
JACK, JACK STANDS, AND
WHEEL CHOCKS
CONTAINER FOR DRAINING
COOLANT
EXTRA COOLANT
COOLANT VACUUM FILL TOOL
(OPTIONAL)

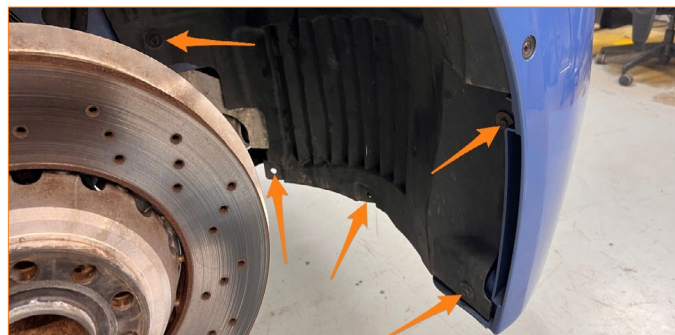
INSTALL TIME: 1 HOUR

INSTALL DIFFICULTY:     

Note: There are two auxiliary radiators on the vehicle. The passenger side aux rad is part of the intercooler circuit, and the driver side is part of the engine cooling circuit. The Mishimoto aux rad can be installed on either side or both. This guide covers installation of the passenger side aux radiator. The install process is the same for the driver side except for the coolant draining/filling procedure.

INSTALLATION INSTRUCTIONS

1. Ensure the vehicle is in park and the parking brake is applied then, use a 17mm lug socket to loosen the passenger side lug bolts.
2. If using a jack/jack stands, ensure the vehicle is on a flat, level surface, then place wheel chocks on one of the rear wheels to prevent rolling. Raise the vehicle and place on jack stands per the OEM procedure and lift points.
3. Remove the passenger side wheel lug bolts and wheel.
4. Use an 8mm socket to remove the 9x screws fastening the front section of the wheel liner then remove the liner.



5. Remove the expansion tank cap for the intercooler circuit.



Continued on next page

6. Place a container under the stock aux rad to catch drained coolant, then use a pick tool to release the wire locks on the quick connect fittings and remove them from the stock aux rad.



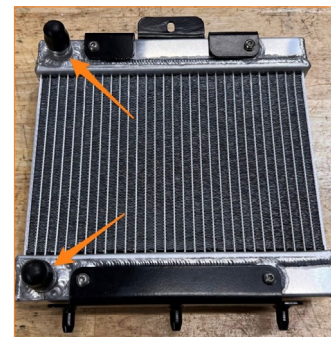
7. Once the coolant has stopped draining, use a T30 socket to remove the retaining bolt. Remove the stock aux radiator by tilting the top toward the back of the car then lifting.



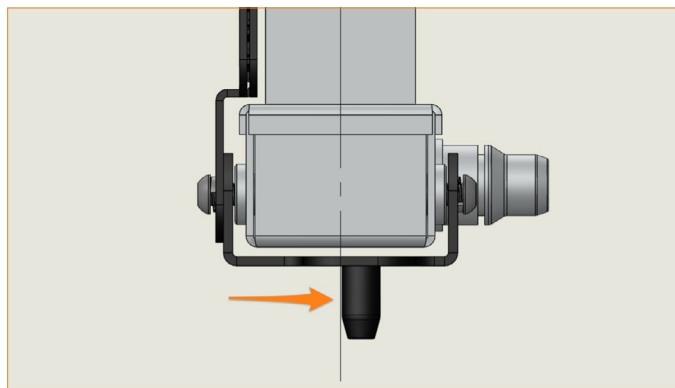
8. The Mishimoto kit comes with new O-rings for the aux rad quick connect fittings. We recommend replacing these to help prevent any future leaks. The larger of the three O-rings is for the lower radiator hose fitting on the engine cooling circuit (not used for passenger side aux rad install). Remove the old O-rings and replace them with the new ones provided. Lubricate the O-rings with clean coolant.



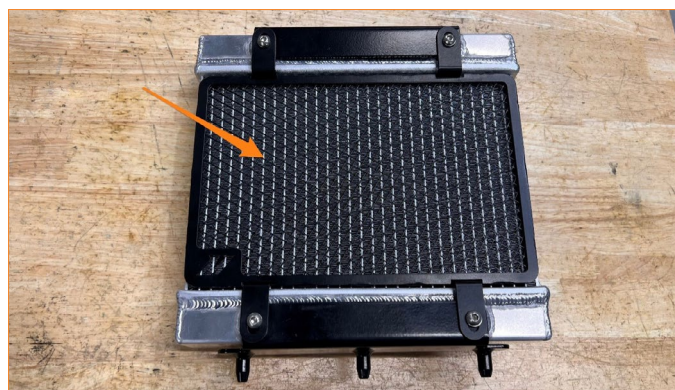
9. The Mishimoto aux rad comes preassembled in the configuration for the driver side (left photo). To reconfigure for the passenger side, remove the 8x button head screws (4mm hex) fastening the brackets to the radiator and rotate the radiator 180 degrees so the inlet/outlet are mirrored from what they were (right photo). Fasten the brackets back onto the radiator.



10. Ensure the pins on the bottom bracket are offset from center toward the inlet/outlet side.

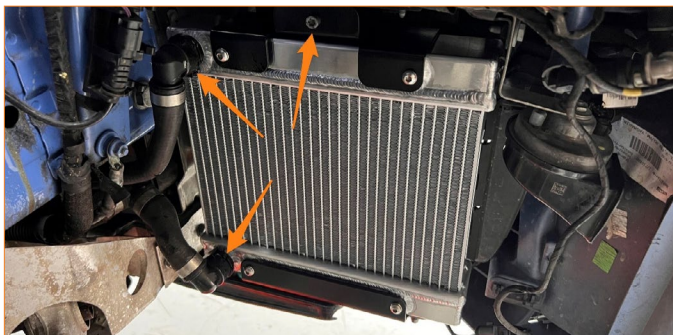


11. The mesh stone guard is optional and may be removed at this point if desired.



Continued on next page

12. Install the Mishimoto aux rad into the vehicle and fasten using the stock T30 bolt. Reinstall the quick connect fittings.



13. Reinstall the wheel liner and wheel.

14. Refill system with coolant and reinstall cap. BMW recommends using a vacuum fill tool.

15. Additional bleeding procedure for engine cooling circuit. (For driver side aux rad install. Skip for passenger side.)

- Connect vehicle to a battery charger
- Turn ignition on but do not start engine
- Turn headlight switch to low beam
- Set HVAC temp to max heat and blower fan to lowest speed
- Make sure ECO PRO drive mode is not selected
- Press and hold accelerator pedal for 10 seconds to start process
- The bleeding procedure takes about 12 minutes (the electric coolant pump will turn off automatically after completed)

16. Test drive and check for leaks. After vehicle has cooled down, check coolant level in expansion tank and adjust as needed.

17. This concludes the installation.

Continued on next page

DISPOSAL INSTRUCTIONS

- › Do not dispose of any product as unsorted municipal waste. Use separate collection facilities. Contact your local authority for information regarding the collection systems available.
- › Never improperly dispose of any coolant, oil, or other chemicals

WARRANTY INFORMATION



This product is backed by Mishimoto's Lifetime Limited Warranty. Please visit mishimoto.com/lifetime-warranty to see the full warranty.

ACTIVATE YOUR WARRANTY

Scan the QR code to activate your warranty. Every Mishimoto product is covered by our Mishimoto Lifetime Warranty, which also includes accident protection. Registration is easy. Visit: mishimoto.com/register and save the receipt for your records.



WARNING
Cancer and
Reproductive Harm
www.P65Warnings.ca.gov

- › This product can expose you to chemicals which are known to the state of California to cause cancer. For more information visit: www.p65warnings.ca.gov