



INSTALLATION GUIDE

HEAT EXCHANGER FITS 2021+ BMW G8X M3/M4

SKU: MMHE-G80-21

TABLE OF CONTENTS

- Pg 1** RESOURCES AND CONTACT INFORMATION
- Pg 2** IMPORTANT SAFETY INFORMATION
REQUIRED TOOLS
INSTALLATION INSTRUCTIONS
- Pg 6** DISPOSAL INSTRUCTIONS
WARRANTY INFORMATION

RESOURCES & CONTACT

-  **CALL 1-877-GOMISHI**
CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST
-  **MISHIMOTO**
-  **GOMISHIMOTO**
-  **MISHIMOTO**
-  **WEBSITE**
WWW.MISHIMOTO.COM
-  **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-GOMISHI

REQUIRED TOOLS

T30 TORX KEY OR SOCKET	SMALL PLASTIC CUTTING TOOL
T40 TORX KEY OR SOCKET	2MM HEX KEY
10MM 1/4" DRIVE SOCKET	3MM HEX KEY
1/4" DRIVE RATCHETING WRENCH	FLUID CATCH PAN
13MM 3/8" DRIVE SOCKET	VACUUM COOLANT FILL TOOL (OPTIONAL)
3/8" DRIVE RATCHETING WRENCH	COOLANT (HT-12 OR MISHIMOTO LIQUID CHILL)
10MM RATCHETING WRENCH	
PICK TOOL(S)	

INSTALL TIME 2-3 HOURS

INSTALL DIFFICULTY

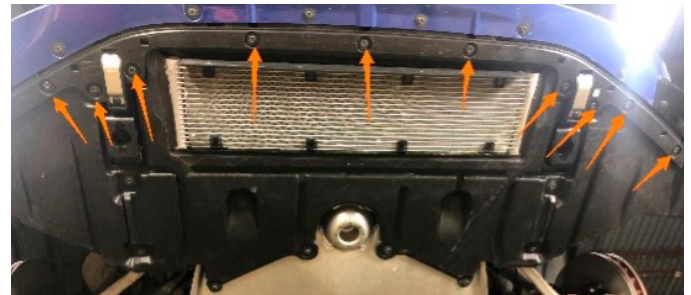
DISCLAIMERS

- › This instruction manual is focused on installing a Mishimoto part and may not comprehensively cover removal and reinstallation of factory components
- › Raise vehicle only on jack stands or a vehicle lift. Never use only a jack.
- › Allow vehicle to cool completely before attempting installation

- › Do not run engine or drive vehicle while overheating, as serious damage may occur.
- › Please dispose of any liquids properly.

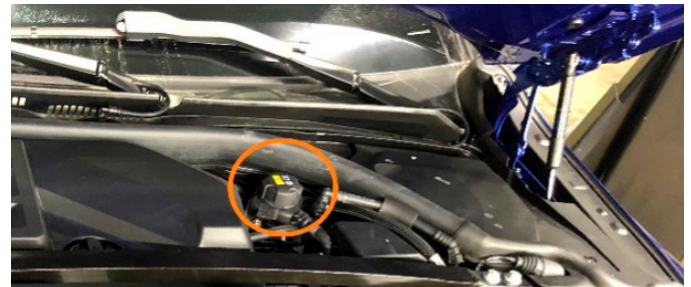
INSTALLATION INSTRUCTIONS

1. Remove the front spoiler and the front plastic undertray.



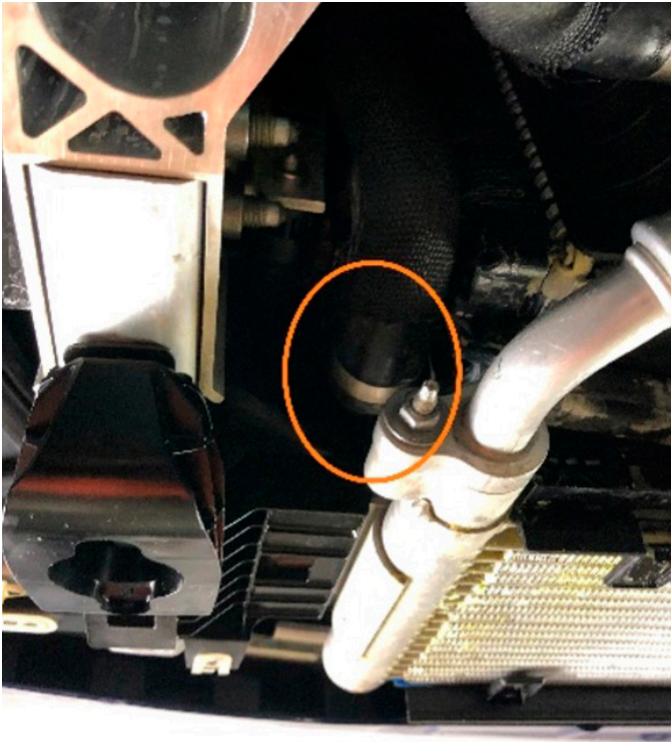
2. Remove the front bumper cover. Refer to the factory workshop manual for specific details.

3. Remove the auxiliary cooling system reservoir cap to allow for easy draining of the system.

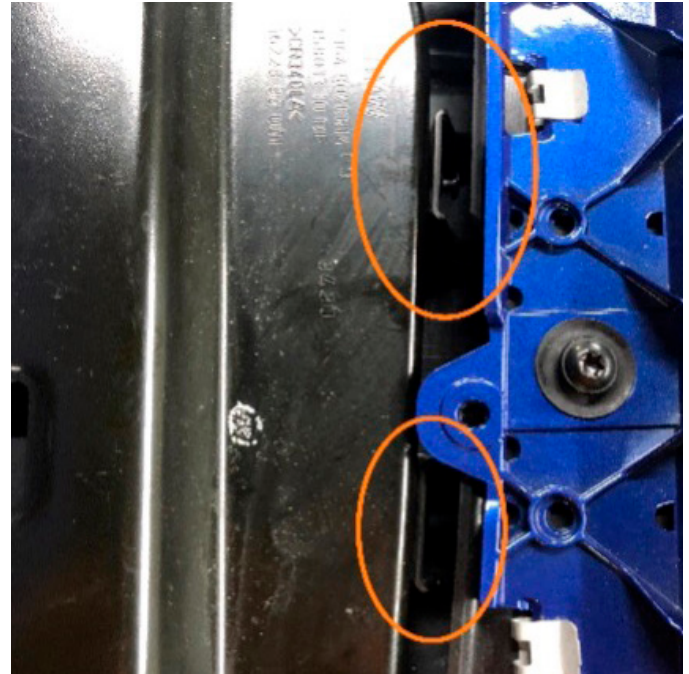
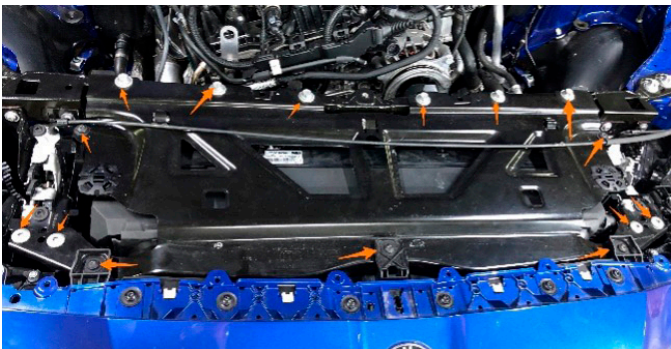


Continued on next page

4. Using a pick tool, remove the clip holding the lower drivers side heat exchanger hose to the port of the heat exchanger. Remove the hose from this port, be prepared to catch the coolant that will be coming from the port.



5. Remove the upper radiator cover bracket. Remove the 6x 13mm bolt, 5x black T30 bolts, and 4x silver T40 bolts. Next, remove the push pins from the front of the bracket. Once complete, remove the hood latch cable from the tabs and remove the upper radiator bracket from the vehicle.

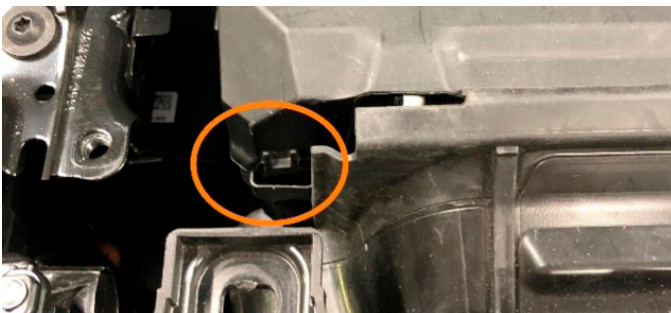
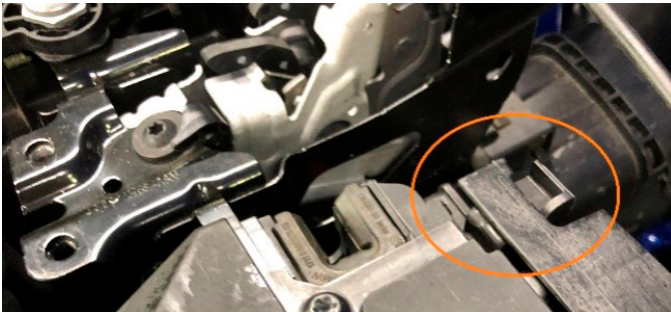


6. Remove the 3x T30 screws holding the radiator cover and fan shroud to the radiator assembly.



Continued on next page

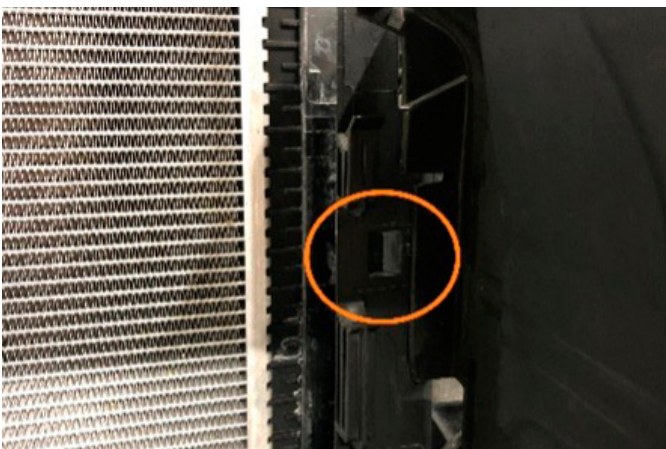
7. Unlatch the fan assembly by pushing this tab toward the rear of the vehicle and pull up on the fan shroud enough to get the upper radiator cover out from underneath it. Remove the upper radiator cover. It may be necessary to use a pick tool to release this tab to fully remove the cover.



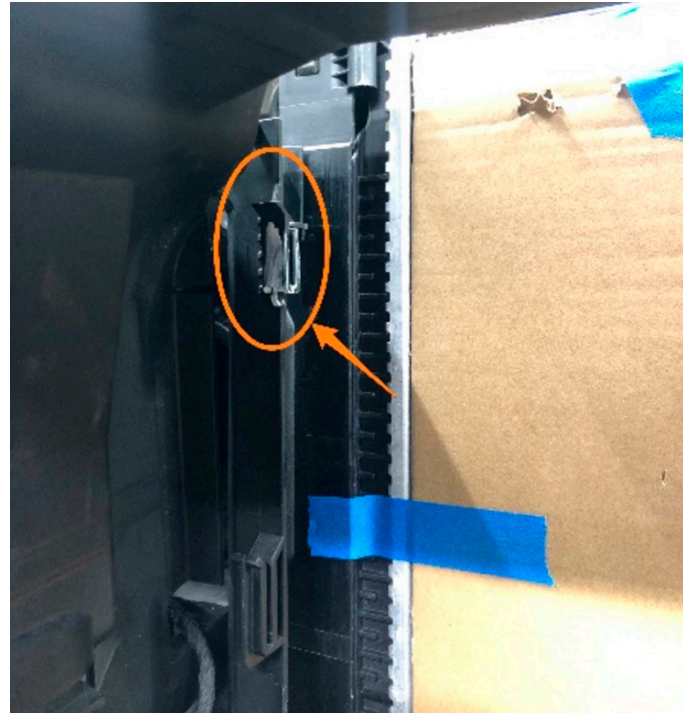
8. Remove the upper heat exchanger hose by removing the clip and pulling the hose away from the heat exchanger.

9. Remove the upper plastic rock guard.

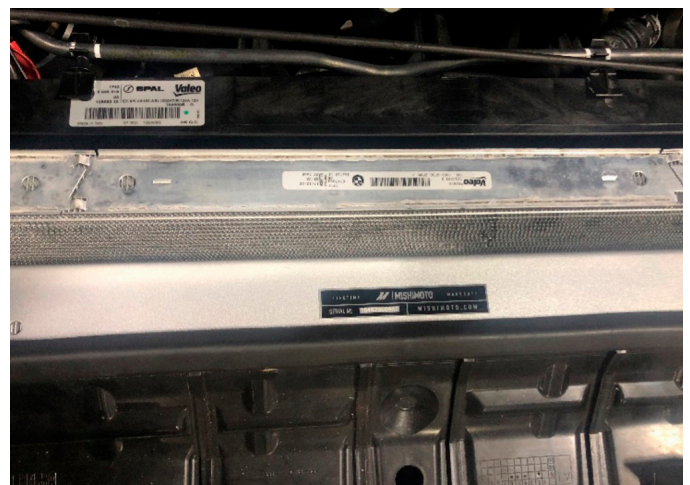
10. Push in the clip/tab in the rectangle hole shown and pull up on the factory heat exchanger to remove from the vehicle.



11. Remove the upper passenger side (LHD) rock guard tab with a cutoff tool.

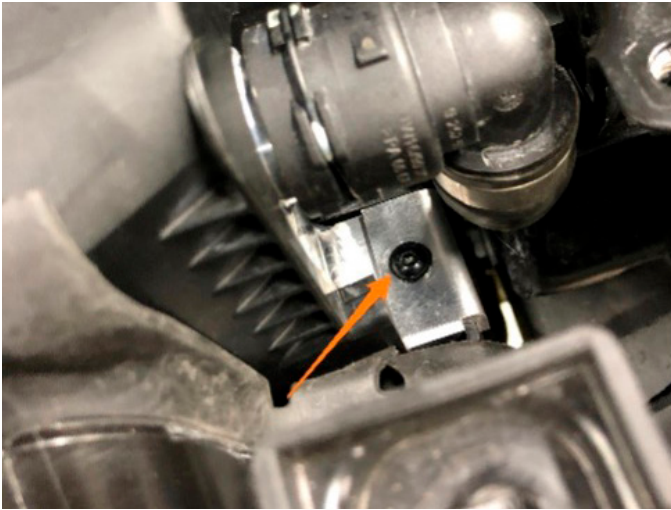


12. Install the Mishimoto heat exchanger into the vehicle. It may be helpful to rotate the heat exchanger clockwise (facing the front of the vehicle) in order to get the lower outlet into its spot in the radiator support plastic.



Continued on next page

13. Take the small bracket and included M5 screw and install onto the machined piece under the inlet of the heat exchanger. Secure the M5 screw with a 3mm hex key/socket.



14. Install both the inlet and outlet hoses on the Mishimoto heat exchanger. You should hear an audible click when they are fully seated.

15. Lower the included rock guard into the vehicle between the radiator shroud and the heat exchanger into the 4 L-brackets welded to the radiator. Secure the rock guard with the 4 included set screws and a 2mm hex key. We suggest putting a small amount of threadlocker on the set screws to prevent them from backing out.



16. (Manual vehicles only) Remove the T30 screw securing the factory lower rock guard to the vehicle and remove from the vehicle. Install the included lower rock guard with the factory screw.

17. Using the same method as the removal, lift the fan shroud slightly and install the upper radiator cover back onto the radiator assembly. Reinstall the 3x T30 Torx screws.



18. Reinstall the upper radiator bracket. Remember to reinstall the hood latch cable in its proper location to ensure that the hood will open properly.

19. Reinstall the front bumper cover.

20. Vacuum fill the secondary cooling system with factory HT-12 coolant or Mishimoto liquid chill. Make sure to check for any leaks during the fill process.

21. Reinstall the factory plastic undertray and spoiler.

22. Perform the factory coolant vent/bleed procedure for the auxiliary system. Close both cooling system reservoir caps. With the hood open, headlights on, and battery connected to a charger, turn the vehicle on but NOT the engine. Turn the heat to max temp and minimum fan. Press the accelerator pedal to the floor for at least 10 seconds without touching the brake pedal. This should activate the auxiliary cooling system venting procedure which will take about 11 minutes. A message with "service function started" will display on the dashboard. Once complete, top off the system if necessary.

Congratulations! You have finished your 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



- › All claims must be accompanied with a picture of the Mishimoto product showing the issue for which the claim is being submitted.
- › Mishimoto asks that the customer inspect their purchased item for any damage immediately upon arrival.
- › Any product deemed dead on arrival (DOA) must be claimed within 14 business days of delivery. Claims outside of this time frame will not be covered under the Mishimoto Lifetime Warranty.
- › This warranty does not include payment and/or reimbursement of the cost of labor in connection with the removal of any product returned pursuant to the warranty policy or in connection with the installation of any replacement items provided under the warranty policy.
- › Mishimoto has the right to refuse a claim at any time.

- › When Mishimoto accepts a claim, Mishimoto retains full discretion to choose if it will: (i) repair or replace purchaser's original Mishimoto product; (ii) replace purchaser's original Mishimoto product with the most current available model; or (iii) provide the purchaser with a gift card redeemable on [Mishimoto.com](https://www.mishimoto.com) in the amount of the original purchase price of the original Mishimoto product. The provision of a replacement of a Mishimoto product is subject to availability and Mishimoto retains the right to substitute any warranty claim item with a comparable item or credit at any time.
- › If Mishimoto determines that it will provide a replacement item in connection with a claim under this warranty policy, and such item is out of stock, Mishimoto will place the customer on backorder and ship the replacement product to the purchaser once it becomes available.
- › Mishimoto is not liable for incorrect shipments in connection with a claim if a claim form is completed incorrectly, or if a model number is not included in a claim.
- › If you have a vehicle equipped with an automatic transmission, please make sure to specify this within the text box on the claim form. Mishimoto is not responsible for incorrect replacement shipments if transmission type is not indicated.



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