



# INSTALLATION GUIDE TRANSMISSION COOLER

FITS 2021+ BMW G8X M3/M4

SKU: MMTC-G80-21

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## RESOURCES & CONTACT

-  **CALL 1-877-GOMISHI**  
CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST
-  **MISHIMOTO**
-  **GOMISHIMOTO**
-  **MISHIMOTO**
-  **WEBSITE**  
[WWW.MISHIMOTO.COM](http://WWW.MISHIMOTO.COM)
-  **ENGINEERING BLOG**  
[WWW.MISHIMOTO.COM/ENGINEERING](http://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

## SUPPLIED PARTS

TRANSMISSION COOLER WITH ROCK GUARD

## REQUIRED TOOLS

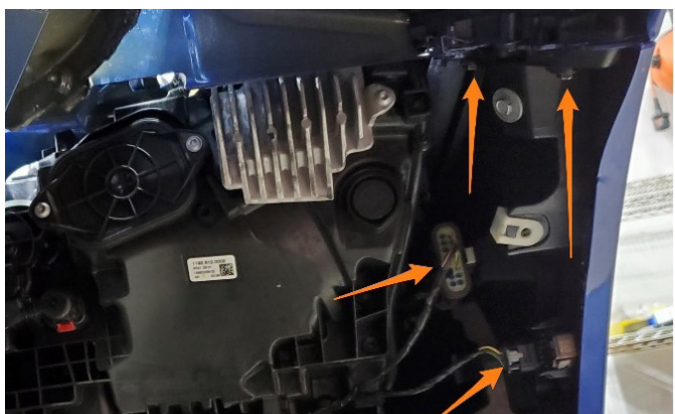
Socket Driver & Extension  
8mm Socket  
10mm Socket  
13mm Socket  
14mm Socket  
16mm Socket  
T30 Torx Socket  
T40 Torx Socket  
13mm Wrench  
Flat Head Screwdriver  
Torque Wrench  
Automotive Picks (optional)  
Pop Clip Pliers (optional)  
17mm Wheel Nut Socket (For Lug Studs/Wheel Removal)  
[MMTL-LUG-5]

## INSTALLATION INSTRUCTIONS

1. Safely raise the vehicle and support it with jack stands. Never work under a vehicle that is supported only with a jack. Using a 17mm socket, remove the front wheels from the vehicle.
2. Using a 10mm socket, remove the fifteen (15) bolts (not all are shown below) securing the front section of the inner wheel arch cover, and remove the cover from the vehicle. Do this on both the driver and passenger side of the vehicle.



3. Using an 8mm socket, remove the two (2) bolts on each side of the vehicle that secure the bumper. Then, remove the two (2) plugs on the driver's side and the three (3) plugs on the passenger's side.



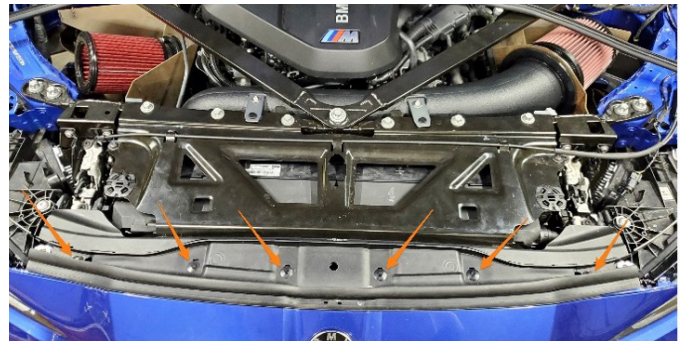
**4.** Using a 10mm socket, remove the bolts securing the front spoiler and splash guards and remove them from the vehicle.



**5.** Using a 10mm socket, remove the bolts securing the engine skid plate and remove it from the vehicle.



**6.** Remove the hood bulb seal by pulling it straight up. Then, remove the six (6) pop clips securing the plastic tray to the top of the front bumper and remove the plastic tray from the vehicle.



**7.** Using a T30 Torx socket, remove the eight (8) bolts securing the bumper to the vehicle. Then, remove the front bumper from the vehicle.

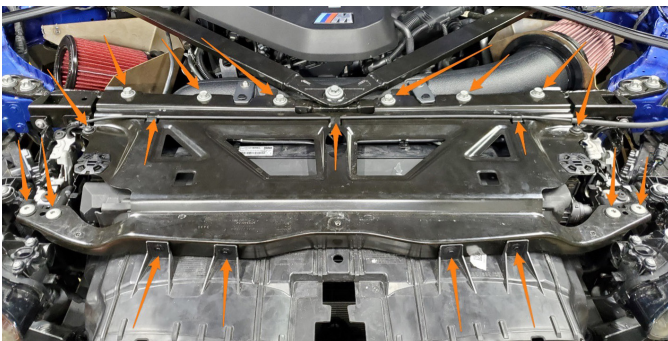


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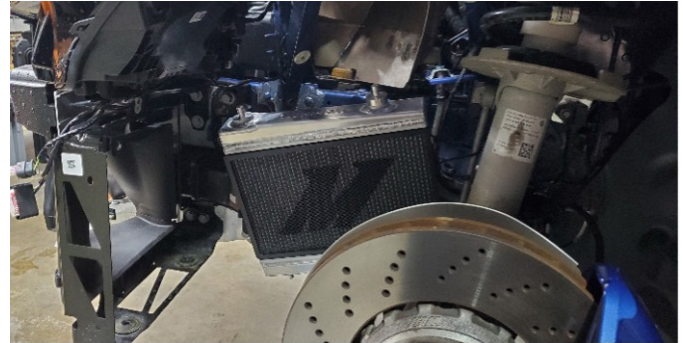
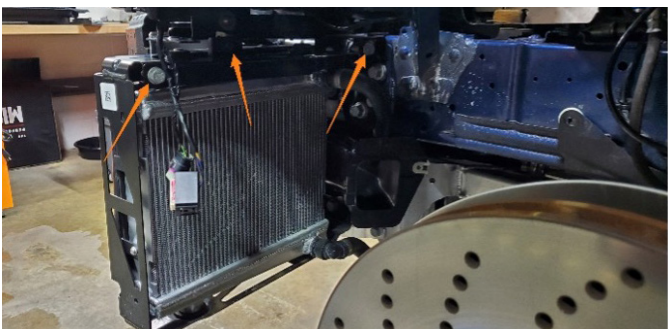
**8.** Using a T30 Torx socket, remove the three (3) bolts securing the bumper bracket. Then, pull straight up on the three (3) posts to remove the bracket assembly from the vehicle.



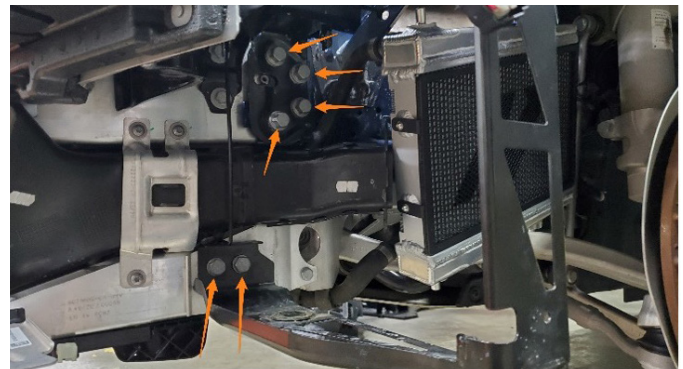
**9.** Remove the four (4) pop clips securing the shroud to the metal bracket. Then, remove the hood release cable from the clips in the bracket. Next, using 13mm, T30 Torx, & T40 Torx sockets, remove the twelve (12) bolts securing the metal bracket and remove it from the vehicle.



**10.** Using a 10mm socket, remove the bolt securing the air duct to the upper auxiliary radiator bracket on the driver's side of the vehicle. Then, using a 13mm socket, remove the two (2) bolts securing the upper auxiliary radiator bracket and remove the bracket from the auxiliary radiator. Then, remove the auxiliary radiator from the lower bracket and move it to the side. The auxiliary radiator can be secured to the vehicle with zip ties to prevent it from falling.



**11.** Using a 13mm and a 16mm socket, remove the six (6) bolts securing the auxiliary radiator bracket and remove the bracket from the vehicle. One of the lower bolts can be loosely reinstalled to keep the lower bumper reinforcement in place.

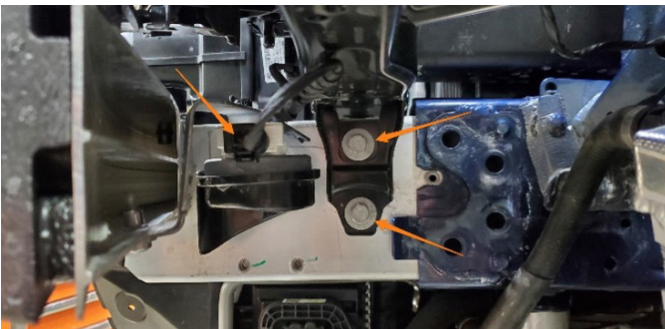


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**12.** Using a T30 Torx socket, remove the three (3) bolts securing the brake duct bracket and remove the bracket from the vehicle. Then, remove the two (2) pop clips securing the brake duct and remove the duct from the vehicle.

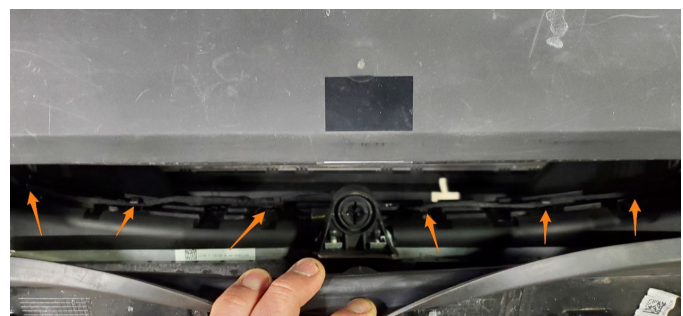
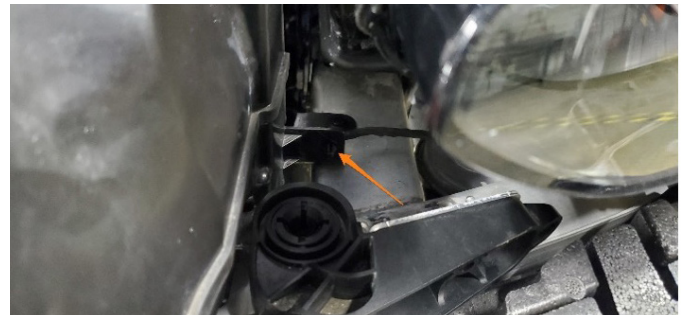


**13.** Using a 13mm socket, remove the two (2) outside bolts securing the upper bumper reinforcement. Then, using a 13mm wrench, loosen the one (1) inside bolt securing the upper bumper reinforcement. The inside bolt does not need to be fully removed as it is in a slotted hole in the bracket. Then, disconnect the plug from the horn.



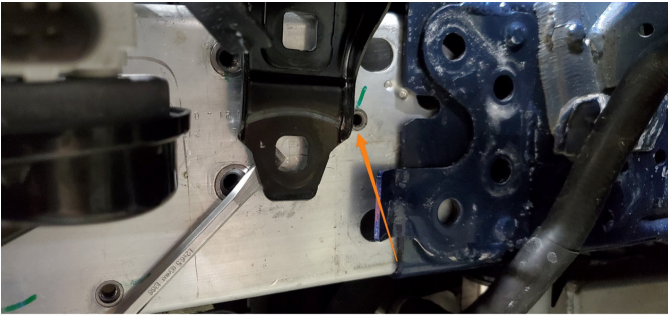
**14.** Repeat steps 10-13 on the passenger's side of the vehicle.

**15.** Unclip the wiring harness from the bracket on each side of the upper bumper reinforcement. Then Remove the wiring harness from all clips on the rear of the upper bumper reinforcement.

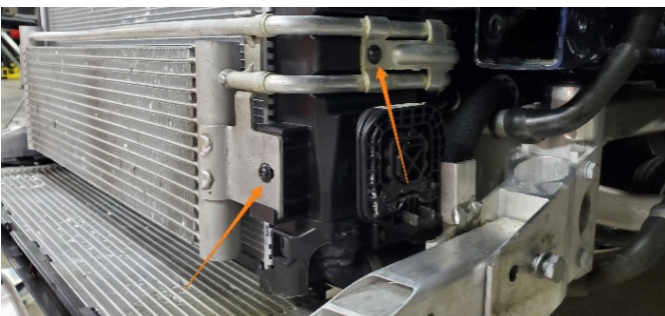
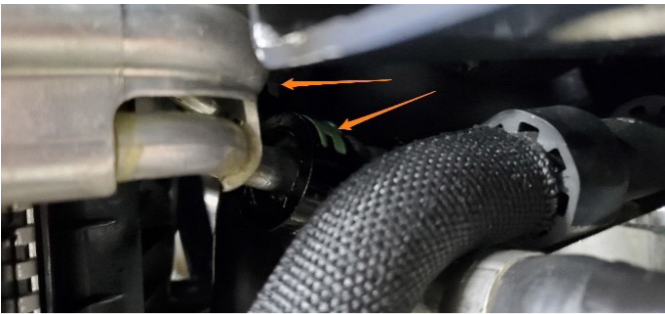


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**16.** Remove the upper bumper reinforcement by pulling it out of the vehicle's frame. A screwdriver or pry bar may be used to guide the standoff on the bumper reinforcement into the recess in the bracket.



**17.** Place a drain pan under the transmission cooler lines to collect the transmission fluid when the lines are disconnected. Disconnect the two (2) lines from the transmission cooler by using an automotive pick to pull straight up on the green clips to unlock the fittings. The fittings can then be pushed off of the cooler. Then, using a T30 Torx socket, remove the two (2) bolts securing the cooler and remove it from the vehicle. Be sure to properly dispose of all used transmission fluid.



**18.** Before installation, fill the Mishimoto transmission cooler with new transmission fluid. Consult the vehicle owner's manual for the proper fluid type. Place a light coating of transmission fluid on the outside of the tubes on the Mishimoto transmission cooler to aid in installing the fittings. Then, being careful not to spill transmission fluid from the cooler, place the cooler in the brackets on the vehicle and connect the transmission lines to the cooler. Lock the fittings in place by pressing the green clips back down. Ensure the fittings are securely attached to the cooler. Then, using a T30 Torx socket, secure the Mishimoto transmission cooler to the vehicle with the tow (2) bolts that were removed in step 17.



**19.** The remainder of the installation is the reverse of the removal. See below for the required torque specs:

Lower bumper reinforcement bolts (step 11): 40 N-m (29.5 lb-ft)



Lug studs: 140 N-m (103 lb-ft) torqued in a star pattern

**Congratulations! You have finished your installation!**

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## 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](https://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](https://www.p65warnings.ca.gov)