



INSTALLATION GUIDE

Oil Cooler Kit Fits 2023+ Toyota GR Corolla

SKU: MMOC-GRC-23

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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
-  **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

SUPPLIED PARTS

(1) DUAL PASS BAR AND PLATE COOLER	(1) AN LINE, 600MM LONG
(1) SANDWICH PLATE (THERMOSTATIC OR NON-THERMOSTATIC)	(1) AN LINE, 615MM LONG
(2) SANDWICH PLATE AN FITTINGS	(1) M6 HEX HEAD FLANGED BOLT, 12MM LONG
(1) SANDWICH PLATE CENTER BOLT	(2) M6 HEX HEAD FLANGED BOLT, 20MM LONG
(1) UPPER MOUNTING BRACKET	(2) M6 WASHERS
(1) LOWER MOUNTING BRACKET	(2) M6 NYLOC NUTS
	(3) M8 HEX HEAD SERRATED FLANGE BOLTS

REQUIRED TOOLS

SOCKET DRIVER	FLATHEAD SCREWDRIVER
10MM SOCKET	OPTIONAL TOOLS:
13MM SOCKET	POP CLIP PLIERS
14MM SOCKET	-10B AN WRENCH
27MM SOCKET	DRILL
10MM WRENCH	1-1/4" HOLE SAW
25MM WRENCH	AVIATION SNIPS
ADJUSTABLE WRENCH	

INSTALL TIME: 2 HOURS

INSTALL DIFFICULTY:

INSTALLATION INSTRUCTIONS

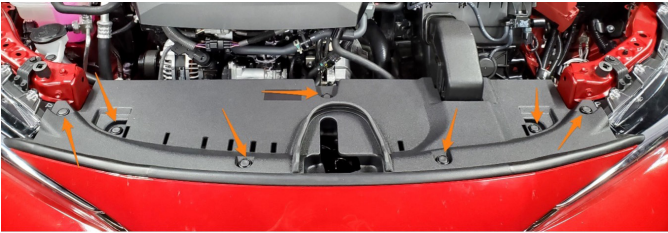
1. Using a 10mm socket, remove the ten (10) bolts that attach the bumper to the engine tray.



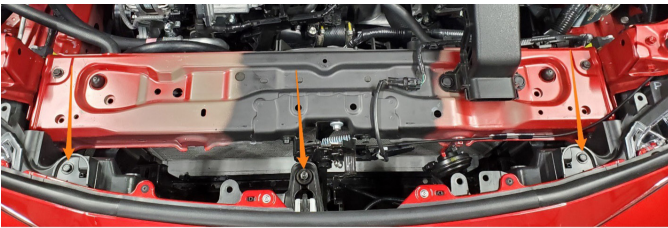
2. Disengage the clips that attach the bumper to each wheel liner by inserting a flathead screwdriver. Then, using a flathead screwdriver or pop clip pliers, remove the two (2) pop clips in each wheel well that attach the bumper to the wheel liner.



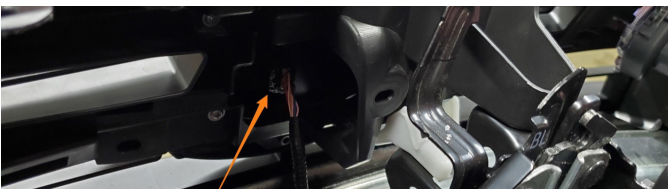
3. Using a flathead screwdriver or pop clip pliers, remove the seven (7) pop clips securing the plastic tray at the front of the engine bay. Remove the tray from the vehicle.



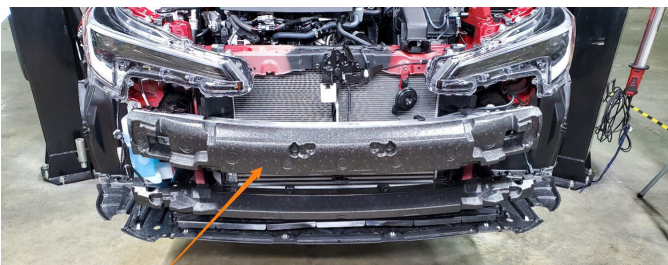
4. Using a 10mm socket, remove the three (3) bolts securing the top of the bumper to the vehicle.



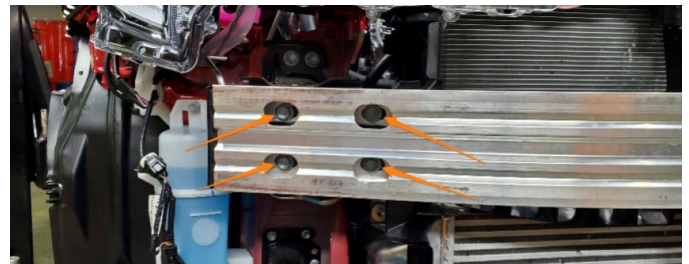
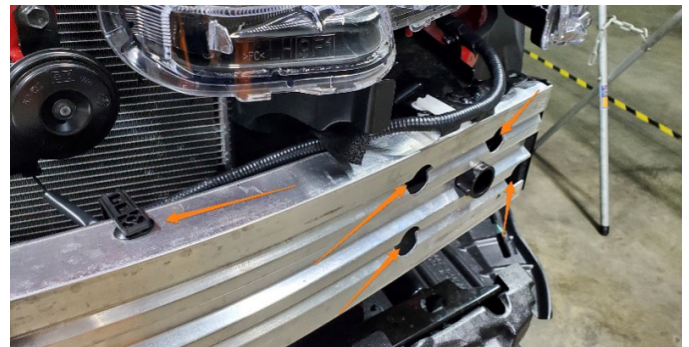
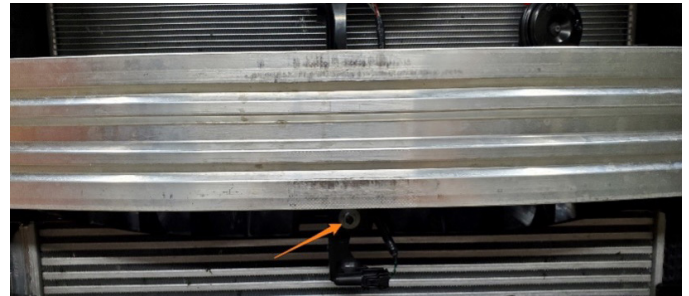
5. Disconnect the electrical connector from the ADAS radar in the center of the bumper. Then, carefully pull each end of the bumper away from the vehicle to begin to disconnect it. Disconnect the electrical connectors from the fog light on each side of the bumper before fully removing the bumper.



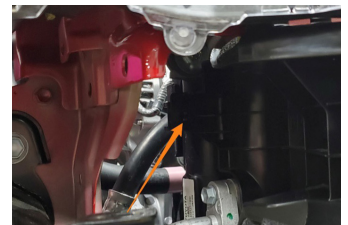
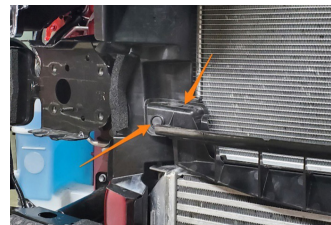
6. Remove the foam from the crash bar by pulling it straight out.



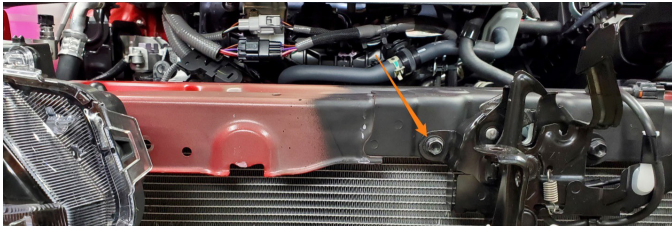
7. Using a 10mm socket, remove the nut that attaches the bracket to the bottom center of the crash bar. Then, unclip the plastic wire harness mount from the top of the crash bar. Then, using a 14mm socket, remove the four (4) bolts on each side of the crash bar and remove the bar from the vehicle.



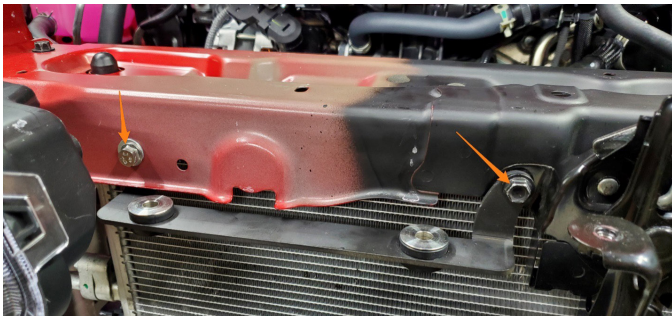
8. Using a flathead screwdriver or pop clip pliers, remove the pop clip and disengage the clip connecting the plastic shroud to the air duct. Then disengage the clip connecting the shroud to the radiator and remove the shroud from the vehicle.



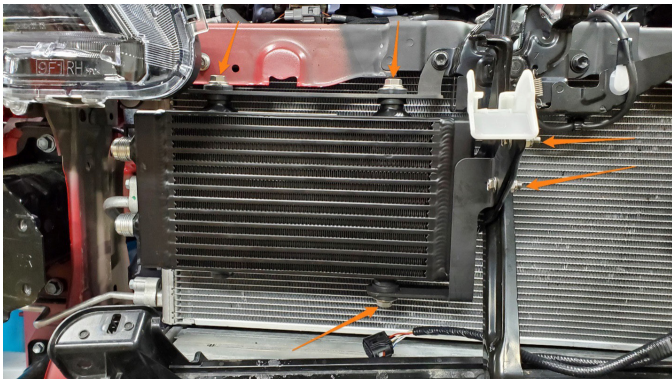
9. Using a 10mm socket, remove the passenger side bolt securing the hood latch to the radiator support.



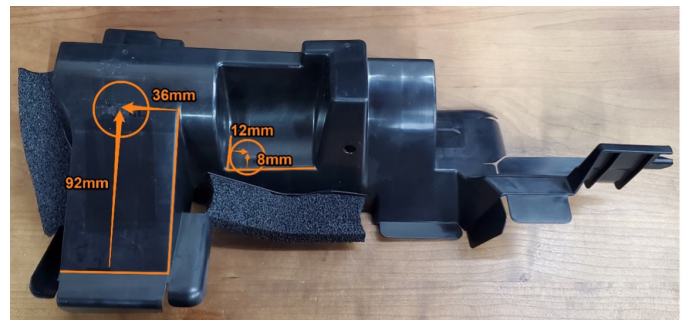
10. Attach the upper mounting bracket to the radiator support with the bolt that was just removed in step 10 and the supplied 12mm long M6 bolt.



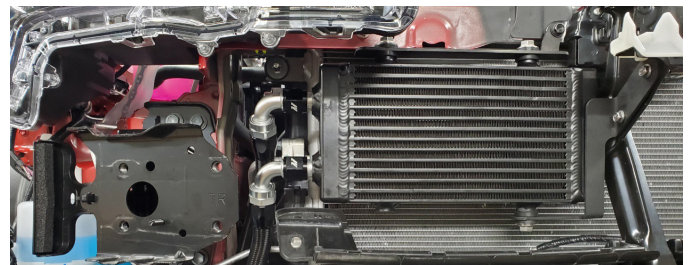
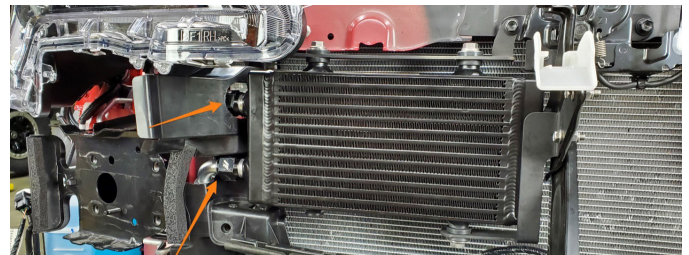
11. Install the lower mounting bracket to the hood latch support using the two (2) supplied 20mm long M6 bolts, M6 washers, and M6 nyloc nuts. Then attach the cooler to the mounting brackets using the three (3) supplied M8 bolts.



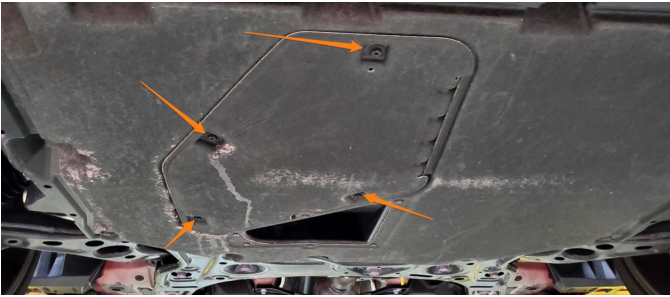
12. [Optional] Mark the shroud that was removed in step 8 in the locations shown in the photo below and cut a hole using a 1-1/4" hole saw or aviation snips. These holes will allow the oil line fittings to pass through the shroud and connect to the cooler. This step is optional; the shroud can be left off the vehicle if you prefer not to cut the shroud. A replacement shroud can be purchased from a Toyota dealer. The shroud is Toyota part number 16593-18030.



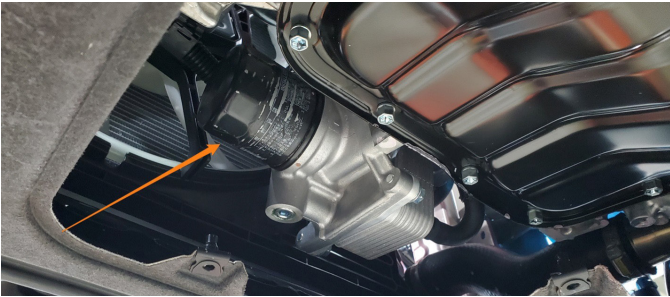
13. If the shroud is being used, reinstall it onto the vehicle after it is cut and reattach the air duct with the pop clip removed in step 8. Using an adjustable or -10B AN wrench, install the supplied 615mm AN line onto the cooler's upper port and the supplied 600mm AN line onto the lower port. Route the lines as shown in the photos below and under the intercooler pipe.



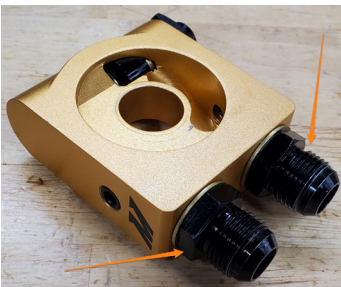
14. Using a 10mm socket, remove the four (4) bolts securing the oil service panel to the underside of the vehicle and remove the panel.



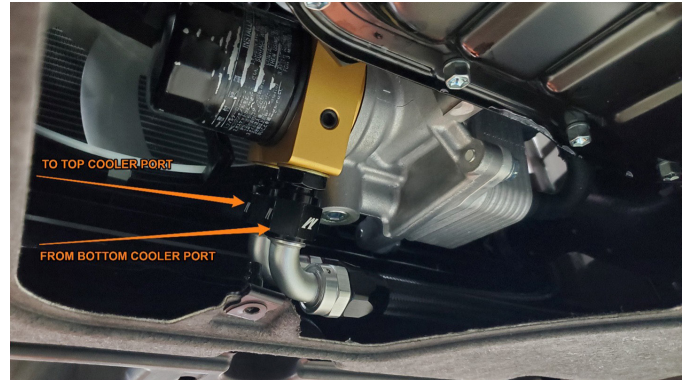
15. Be sure the vehicle is completely cooled before removing the oil filter. Place an appropriate container below the oil filter to catch any oil and remove the oil filter. Properly dispose of any oil that was drained.



16. Using a 25mm wrench, install the supplied sandwich plate fittings to the sandwich plate. Then, loosely install the sandwich plate onto the engine with the supplied center bolt. The side of the sandwich plate with the gasket should be against the engine.



17. Using an adjustable or -10B AN wrench, attach the AN lines from the cooler to the sandwich plate fittings, as shown in the photo below. Angle the sandwich plate towards the front of the vehicle and tighten the center bolt to 30 lb-ft with a 27mm socket. Then, reinstall the oil filter onto the center bolt.



18. Reinstall the oil service panel with the four (4) bolts removed in step 14. Then, reinstall the crash bar and torque the eight (8) bolts that were removed in step 7 to 49 lb-ft (67Nm). Reinstall the remaining components in the reverse of removal, and be sure to reconnect the electrical connectors for the fog lights and the ADAS radar.

19. Start the vehicle and allow it to idle until reaching operating temperature to open the thermostat (thermostatic sandwich plates). Be sure the oil has circulated into the oil cooler and lines and refill to the proper oil level. Approximately an additional 0.76qt of oil will be needed. Mishimoto recommends starting with an additional 0.5qt and adjusting from there until the proper oil level is reached. The installation is now complete.

Congratulations! You have finished your installation.

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