



INSTALLATION GUIDE

2023+ Nissan Z Air-to-Water Intercooler Kit

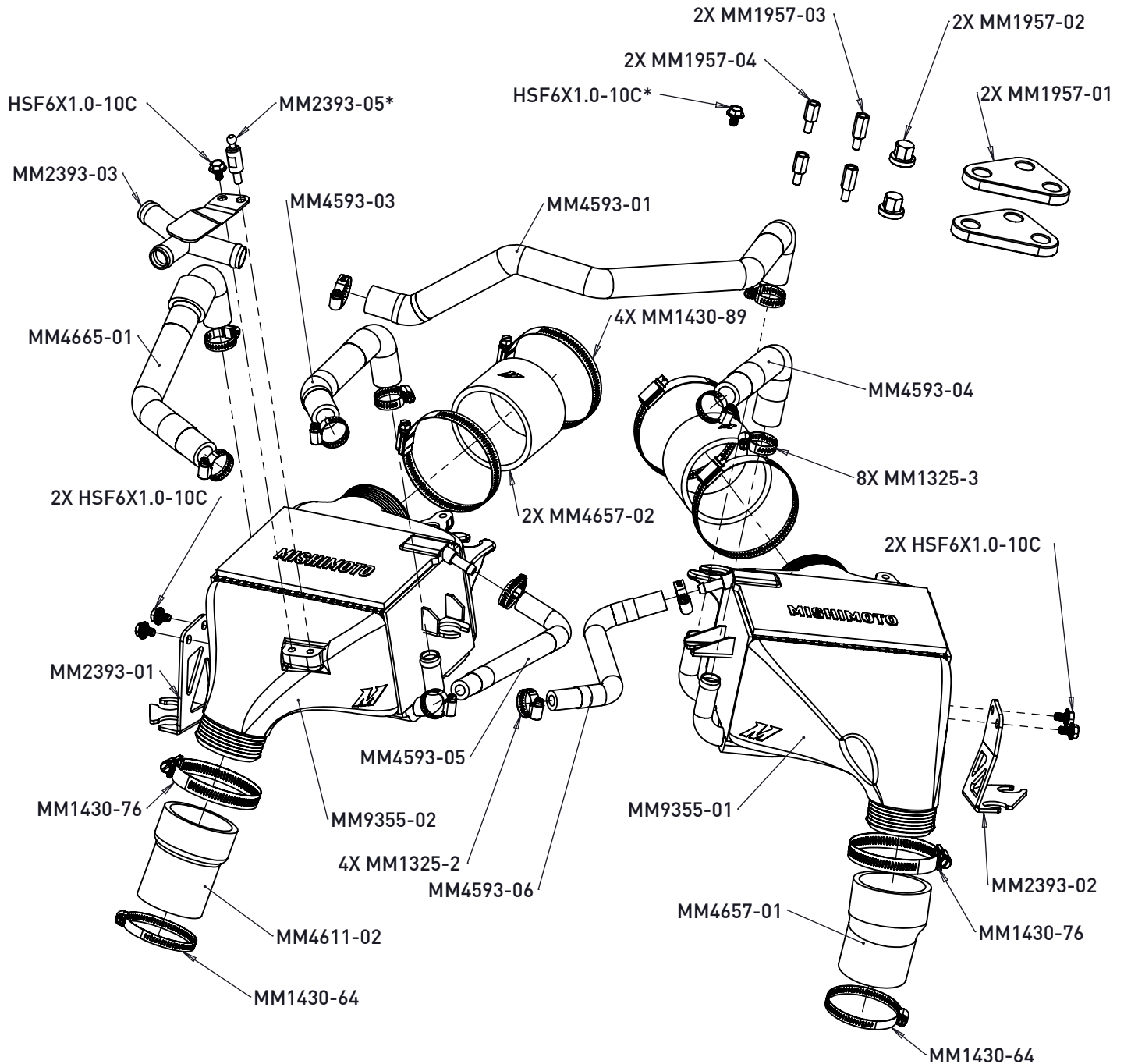
SKU: MMINT-Z-23

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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



***USE EXTRA HSF6X1.0-10C BOLT IN PLACE OF MM2393-05 STAND OFF IF INSTALLED WITHOUT ENGINE COVER**

PARTS BREAKDOWN

| PART NUMBER | DESCRIPTION | QTY |
|--------------|-------------------------------------|-----|
| MM9355-01 | DRIVER SIDE INTERCOOLER | 1 |
| MM9355-02 | PASSENGER SIDE INTERCOOLER | 1 |
| MM2393-03 | Y-PIPE | 1 |
| MM4593-01 | HOSE 1 ASSEMBLY | 1 |
| MM4665-01 | HOSE WITH GUARD | 1 |
| MM2393-01 | BRACKET 1 | 1 |
| MM2393-02 | BRACKET 2 | 1 |
| MM4593-03 | HOSE 3 ASSEMBLY | 1 |
| MM4593-04 | HOSE 4 ASSEMBLY | 1 |
| MM4593-05 | HOSE 5 ASSEMBLY | 1 |
| MM4593-06 | HOSE 6 ASSEMBLY | 1 |
| MM4657-01 | COUPLER 1 | 1 |
| MM4611-02 | COUPLER 3 | 1 |
| MM4657-02 | COUPLER 2 | 2 |
| HSF6X1.0-10C | M6 FLANGED BOLT | 6 |
| MM1325-3 | 16-25MM WORM GEAR CLAMP | 8 |
| MM1325-2 | 12-20MM WORM GEAR CLAMP | 4 |
| MM1430-89 | 65-89MM HIGH TORQUE WORM GEAR CLAMP | 4 |
| MM1430-76 | 52-76MM HIGH TORQUE WORM GEAR CLAMP | 2 |
| MM1430-64 | 40-64MM HIGH TORQUE WORM GEAR CLAMP | 2 |
| MM2393-05 | SPACER 1 | 1 |
| MM1957-01 | SPACER | 2 |
| MM1957-02 | CAP NUT | 2 |
| MM1957-03 | STAND OFF 1 | 2 |
| MM1957-0t4 | STAND OFF 2 | 2 |

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

| | |
|---------------------------|--------------------|
| CONTAINER FOR COOLANT | 1/4" RATCHET |
| POP-CLIP TOOL | 1/4" SOCKET DRIVER |
| PHILLIPS HEAD SCREWDRIVER | 7MM SOCKET |
| NEEDLE-NOSE PLIERS | 8MM SOCKET |
| LARGE PICK TOOL | 10MM SOCKET |
| 5MM ALLEN WRENCH | 12MM SOCKET |
| 10MM WRENCH | 14MM DEEP SOCKET |

INSTALL TIME: 4 HOURS

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.

INSTALLATION INSTRUCTIONS

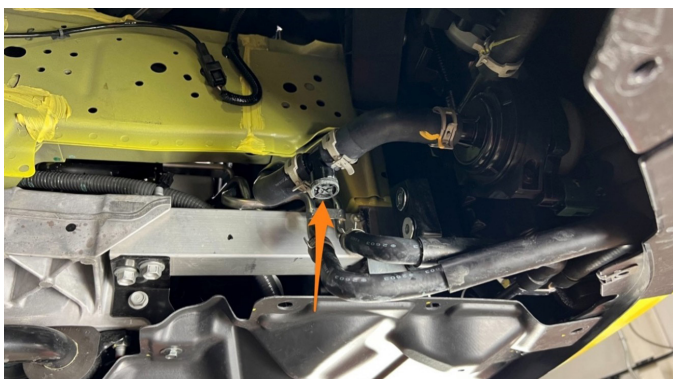
1. Remove the front half of the passenger side fender liner (pop clip tool and 10mm socket).

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2. Remove the charged air cooling system reservoir cap.



3. Place a suitable container below, and using a Phillips head screwdriver, remove the drain plug for the charged air cooling system.



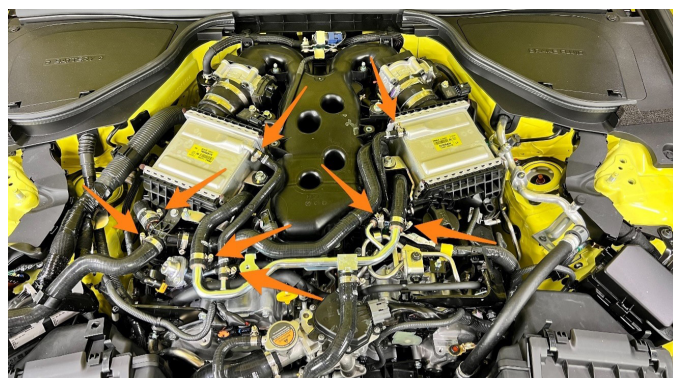
4. While waiting for the system to drain, use a 14mm socket to remove the four bolts and 2x nuts securing the strut bar. Then, remove the strut bar.



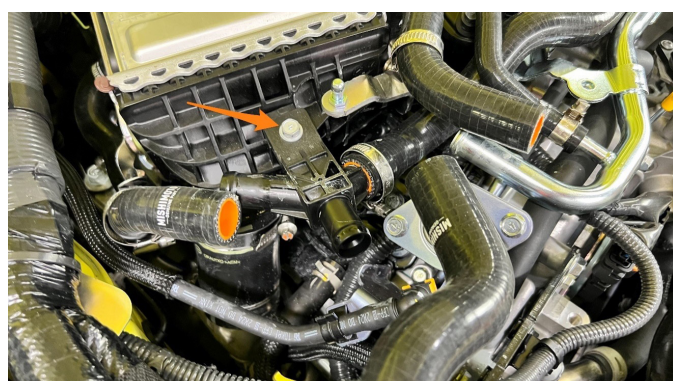
5. Use a 5mm Allen wrench to remove the 3x engine cover bolts and lift on the four corners to release it from the pegs. Remove the cover.



6. Using a 7mm socket, loosen the 8x hose clamps and remove the hose ends.



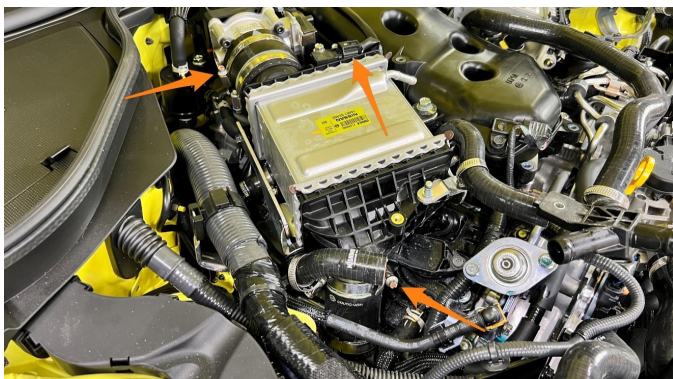
7. Using a 10mm socket, remove the bolt fastening the "Y" fitting.



8. Using a 7mm socket, loosen the 2x intercooler coupler hose

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clamps and unplug the sensor connector on the passenger side intercooler.



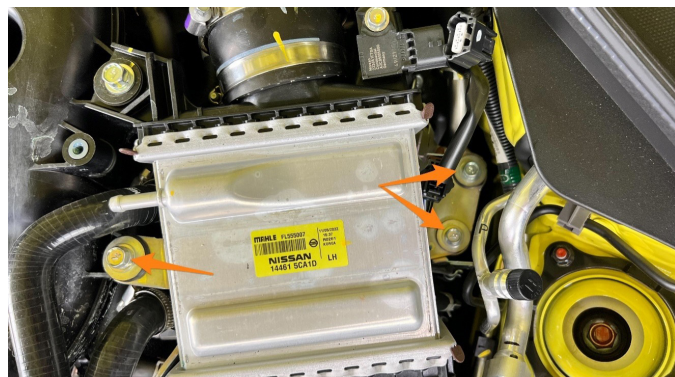
9. Using a 12mm socket, remove the 3x mounting bolts on the passenger side intercooler.



10. Using a 7mm socket, loosen the 2x intercooler hose clamps and unplug the 2x sensor connectors on the driver-side intercooler.



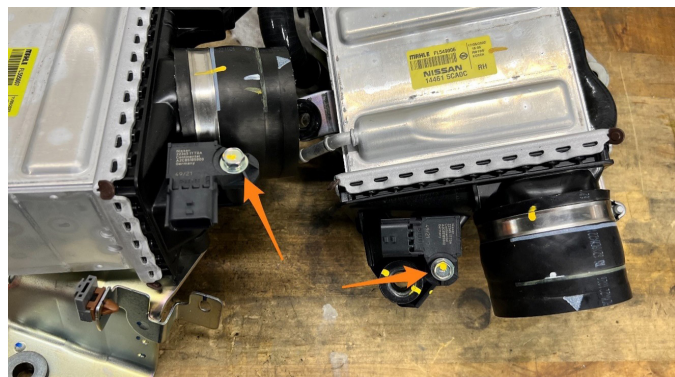
11. Using a 12mm socket, remove the 3x mounting bolts on the driver-side intercooler.



12. Remove the intercoolers from the vehicle by freeing the front from the coupler on the turbo, then slide the intercooler and coupler assembly off the throttle body.

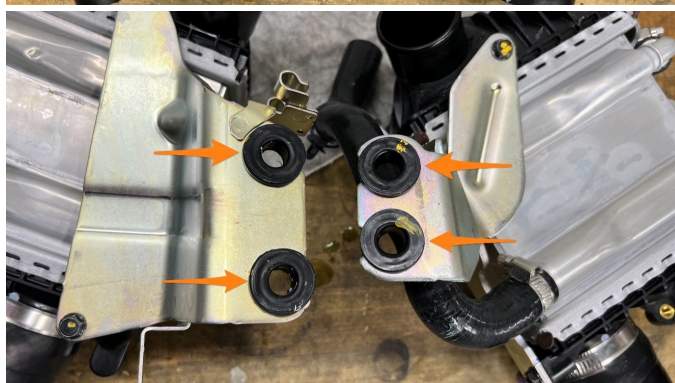
13. After the intercoolers have been removed, use a 7mm socket to loosen the hose clamps on the two turbo couplers and remove them.

14. Using a 10mm socket, remove the bolts fastening the 2x sensors to the stock intercoolers, then remove the sensors.

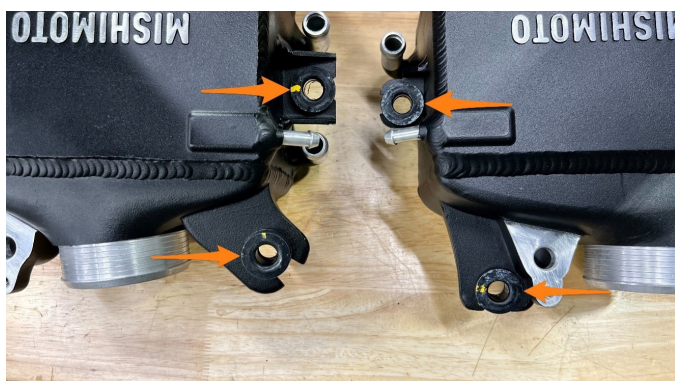


15. Remove the 8x rubber grommets from the stock intercooler brackets by pulling the metal collars out. The grommets can then be removed from the brackets. See photos on the following page.

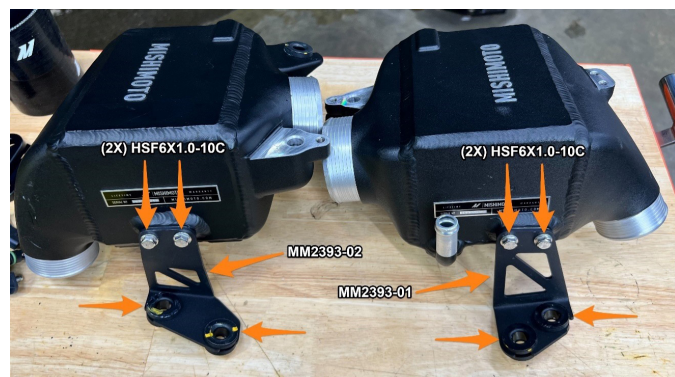
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16. Install two of the grommets into each the Mishimoto intercoolers, ensuring that the flange side of the metal collars are facing up like they were in the stock intercoolers.



17. Install the brackets onto the intercoolers using the provided hardware (10mm socket). Install two of the stock grommets into each of the brackets as shown.



18. Install the hoses onto the intercoolers as shown using the provided 16-25mm worm gear clamps. Ensure the hoses are in the proper orientation before tightening the clamps (7mm socket).



19. Install the two sensors removed in step 14 into the Mishimoto intercoolers using the stock bolts (10mm socket). Install a coupler onto each intercooler and slide two 65-89mm worm gear

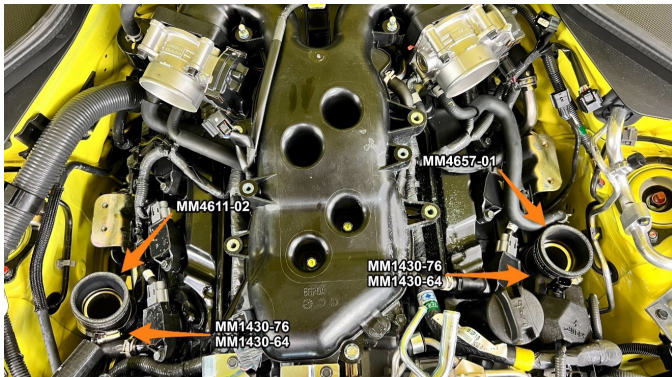
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clamps over each. Loosely tighten the clamps to keep them from falling off during intercooler installation.



20. Slide a 40-64mm worm gear clamp over the small end of each of the turbo couplers then install them onto the turbo outlet. Drop a 52-76mm worm gear clamp onto each of the turbo couplers.

Note: Ensure the clamps are oriented so you can access the tightening screw once the intercoolers are installed.



21. Install the intercoolers into the vehicle throttle body side first, followed by the turbo side. You can run a large pick between the turbo coupler and the intercooler snout while pushing down to help get the coupler over the intercooler barb.

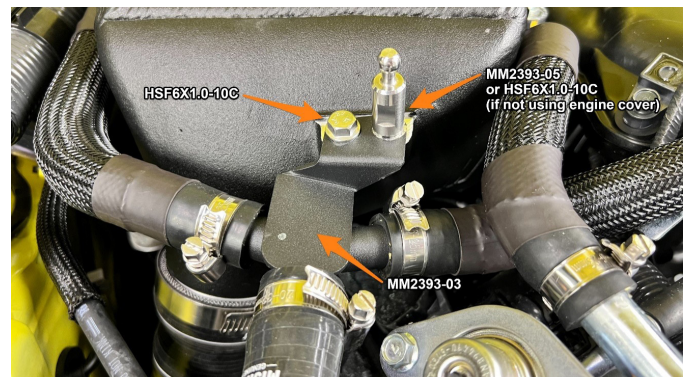
22. Fasten the intercoolers to the engine using the 8x stock bolts (12mm socket).

23. Position and tighten the two hose clamps on each of the 4x couplers (8mm socket).

24. Reconnect the 3x plugs.



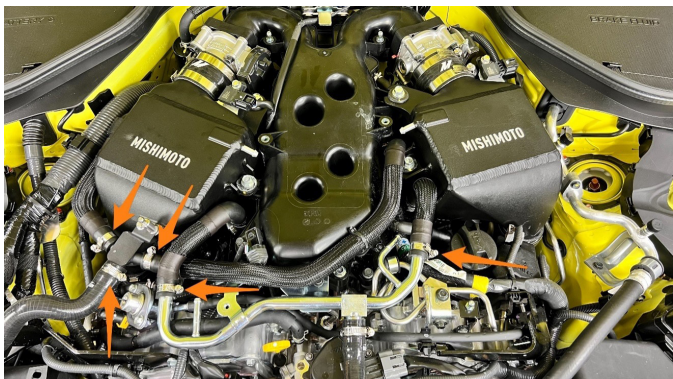
25. Install the Y-pipe onto the passenger side intercooler. Note: If reinstalling the engine covers, fasten using one of the supplied M6 bolts (10mm socket) and a spacer (10mm wrench) as shown. If leaving the engine covers off, fasten using two of the provided M6 bolts.



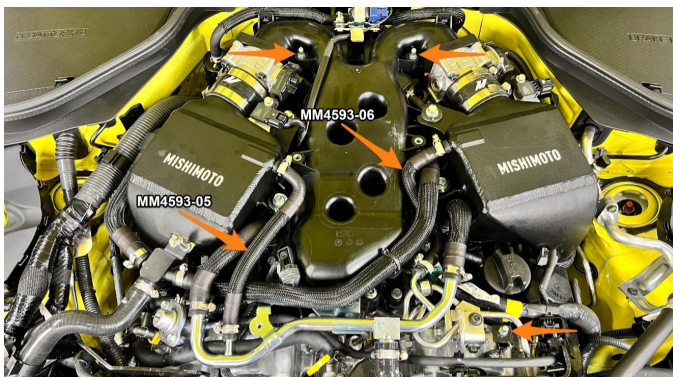
26. Slide a 16-25mm worm gear clamp over each of the 5x hoses

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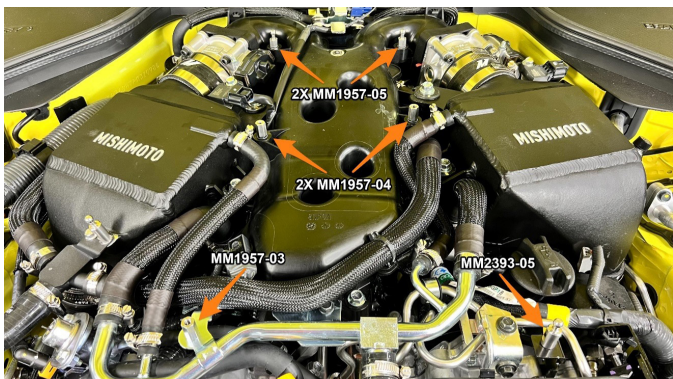
and install them onto the fittings. Tighten the 5x hose clamps (7mm socket).



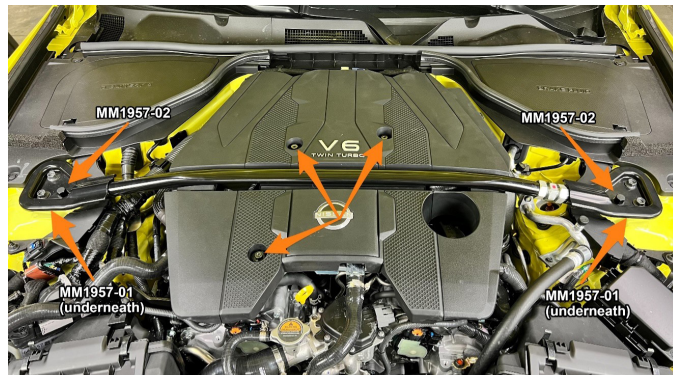
27. Install hoses 5 and 6 as shown and secure using 4x of the supplied 12-20mm worm gear clamps (7mm socket). Remove the stock engine cover mounting pegs (10mm socket).



28. Install the provided mounting pegs/studs as shown.



29. Reinstall the engine covers using the 3x stock bolts (5mm Allen wrench). Place one of the provided spacers on each strut tower where the bar mounts. Reinstall the strut bar on top of the spacers using the 4x stock bolts and the 2x provided nuts.



30. Reinstall the drain plug removed in step 3.

31. Refill the heat exchanger system per the factory-recommended procedure.

32. Reinstall the passenger side fender liner.

33. Test drive and check for boost/coolant leaks.

Congratulations. The installation is now complete.

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