



# INSTALLATION GUIDE

**AIR-TO-WATER INTERCOOLER KIT, FITS 2016-2022 INFINITI Q50/Q60 3.0T**  
**SKU: MMINT-Q50-16**

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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**

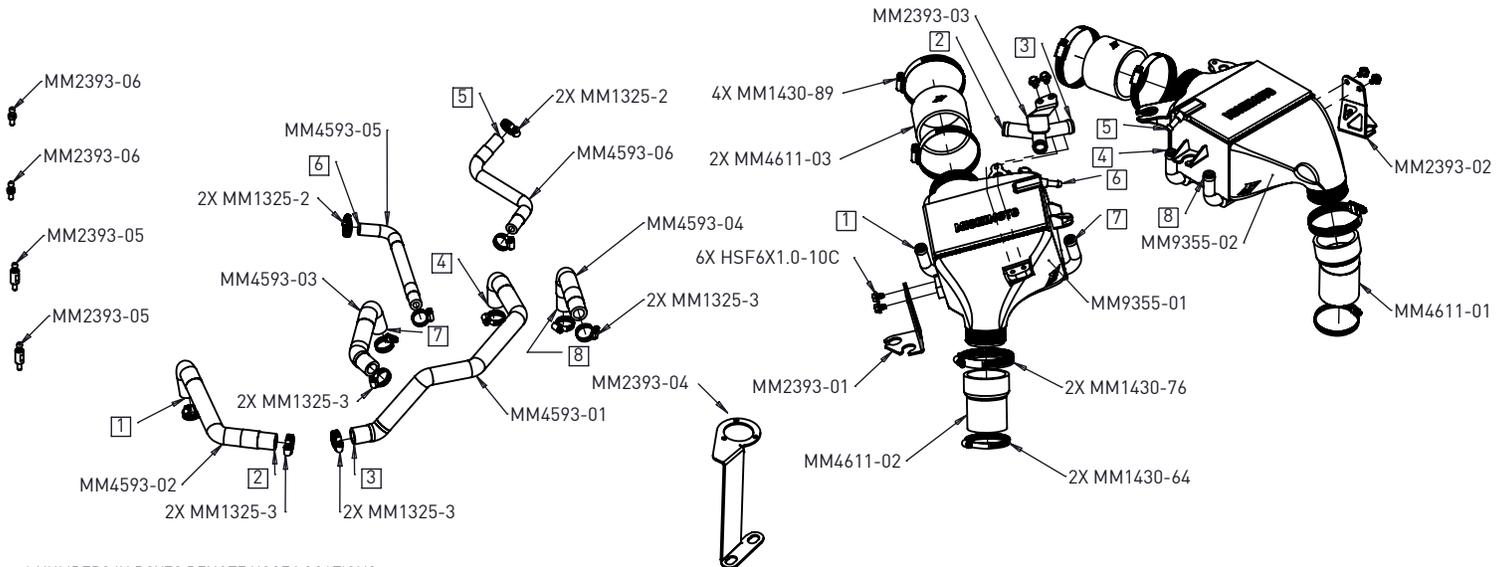
[WWW.MISHIMOTO.COM/ENGINEERING](http://WWW.MISHIMOTO.COM/ENGINEERING)

**PARTS BREAKDOWN**

PART NUMBER	DESCRIPTION	QTY
MM9355-01	RIGHT SIDE INTERCOOLER	1
MM9355-02	LEFT SIDE INTERCOOLER	1
MM2393-01	RIGHT SIDE BRACKET	1
MM2393-02	LEFT SIDE BRACKET	1
MM2393-03	Y-PIPE	1
MM2393-04	CATCH CAN BRACKET	1
MM2393-05	ENGINE COVER SPACER - FRONT	2
MM2393-06	ENGINE COVER SPACER - REAR	2
MM4611-01	LEFT SIDE INLET COUPLER	1
MM4611-02	RIGHT SIDE INLET COUPLER	1
MM4611-03	OUTLET COUPLER	2

**PARTS BREAKDOWN**

PART NUMBER	DESCRIPTION	QTY
MM4593-01	ANCILLARY HOSE 1	1
MM4593-02	ANCILLARY HOSE 2	1
MM4593-03	ANCILLARY HOSE 3	1
MM4593-04	ANCILLARY HOSE 4	1
MM4593-05	ANCILLARY HOSE 5	1
MM4593-06	ANCILLARY HOSE 6	1
MM1325-2	12-20MM WORM GEAR CLAMP	4
MM1325-3	16-25MM WORM GEAR CLAMP	8
MM1430-64	40-64MM WORM GEAR CLAMP	2
MM1430-76	52-76MM WORM GEAR CLAMP	2
MM1430-89	65-89MM WORM GEAR CLAMP	4
HSF6X1.0-10C	M6 FLANGED HEAD BOLT	6



## IMPORTANT SAFETY INFORMATION

- Mishimoto recommends you use safety glasses and protective gloves during the install of their 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

## TOOLS NEEDED

7MM RATCHET WRENCH	¼"-DRIVE 12MM SOCKET
¼"-DRIVE RATCHET	6 ¼"-DRIVE EXTENSION
3/8"-DRIVE RATCHET	3 ¼"-DRIVE EXTENSION
¼"-DRIVE 7MM SOCKET	3/8"-DRIVE 12MM SOCKET
¼"-DRIVE 8MM SOCKET	6 3/8"-DRIVE EXTENSION
¼"-DRIVE 10MM SOCKET	NEEDLE NOSE PLIERS

## INSTALLATION INSTRUCTIONS

- 01.** Remove engine cover.
- 02.** Drain coolant from system, the drain port is located on the bottom of the heat exchanger.
- 03.** Pull inlet and outlet ancillary hoses.
- 04. (Optional)** place caps on inlet and outlet ports. Both intercoolers with ancillary hoses can be removed as an assembly and drained after removal to reduce the amount of coolant spilled in the engine bay.

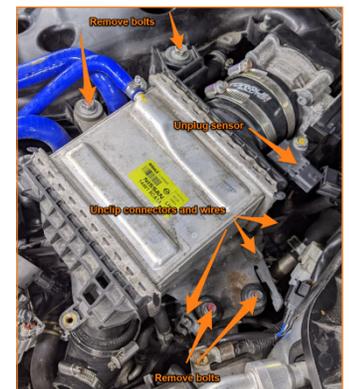
- 05.** Remove 2x bolts mounting the hard ancillary lines.



- 06.** Loosen 8x intercooler coupler hose clamps from inlet and outlet air couplers from both intercoolers.



- 07.** Remove hold-down bolts and unplug boost pressure sensor from both intercoolers.
- 08.** Unclip O<sup>2</sup> sensor and exhaust gas temperature sensor wires and connectors from lower intercooler mount on driver's side.



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09. Remove both intercoolers by first pulling upward to remove the inlet coupler, then forward to remove the outlet coupler from the throttle body.

10. The entire assembly can then be removed from the vehicle.



### Install Mishimoto Intercoolers:



11. Install brackets onto intercoolers using supplied M6 bolts.



12. Transfer 8x rubber grommets from stock intercoolers to Mishimoto intercoolers.



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13. Transfer boost pressure sensors and mounting bolt from stock intercooler to Mishimoto intercoolers.



14. Install outlet couplers onto intercoolers with clamps loosely in place.



15. Install inlet couplers with clamps onto compressor outlet flange on the turbo first, leaving clamps loose. Reclip O<sup>2</sup> and exhaust gas temperature sensor wires and connectors to lower intercooler mount



16. Place inlet of intercooler into inlet couplers first.

**Note:** Be sure the wiring harness for the boost pressure sensor is clear on passenger side.

17. Then work outlet coupler around throttle body, using a pick tool.



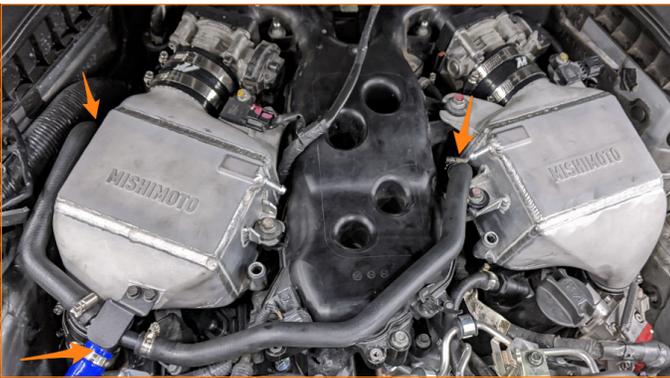
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- 18. Repeat steps for the driver side.
- 19. Install 8x mounting bolts.
- 20. Tighten all 8x coupler clamps.
- 21. Plug in boost pressure sensors.

### Inlet Ancillary hoses:



- 22. Install Y-pipe to passenger-side intercooler using supplied hardware.
- 23. Install ancillary hoses as shown and tighten all clamps.



### Outlet Ancillary hoses:



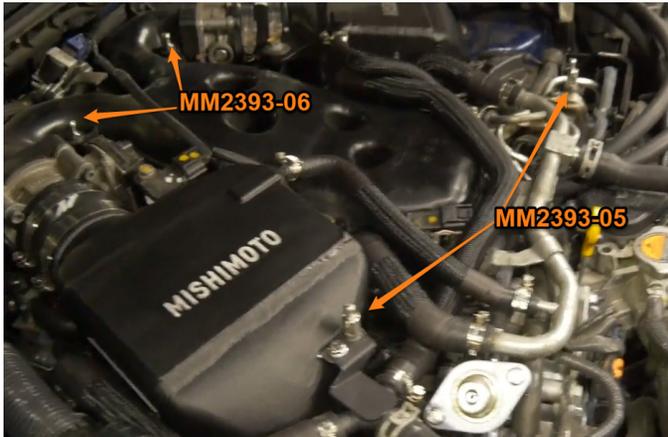
- 24. Remove stock ancillary metal tube.
- 25. Install supplied ancillary lines as shown.
- 26. Re-mount stock metal tube in stock location with stock bolts.
- 27. Install outlet ancillary hose to metal tube.



- 28. Tighten all clamps.

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**29.** Install the provided engine cover spacers in the locations shown below.



**30.** Reinstall engine cover.

Fill and Bleed system according to manufacturer specifications.

### If using a Mishimoto catch can:

**01.** Pre-install Mishimoto catch-can onto the supplied bracket as shown.



**02.** Remove 2x hold-down bolts from driver-side intercooler bracket.



**03.** Install catch can bracket over Intercooler bracket and reinstall bolts holding both brackets down.



**04.** Reinstall hoses and tighten clamps.

**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](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)