



INSTALLATION GUIDE

Intercooler Kit, Fits 2021+ Ford Bronco 2.7L

SKU: MMINT-BR27-21K

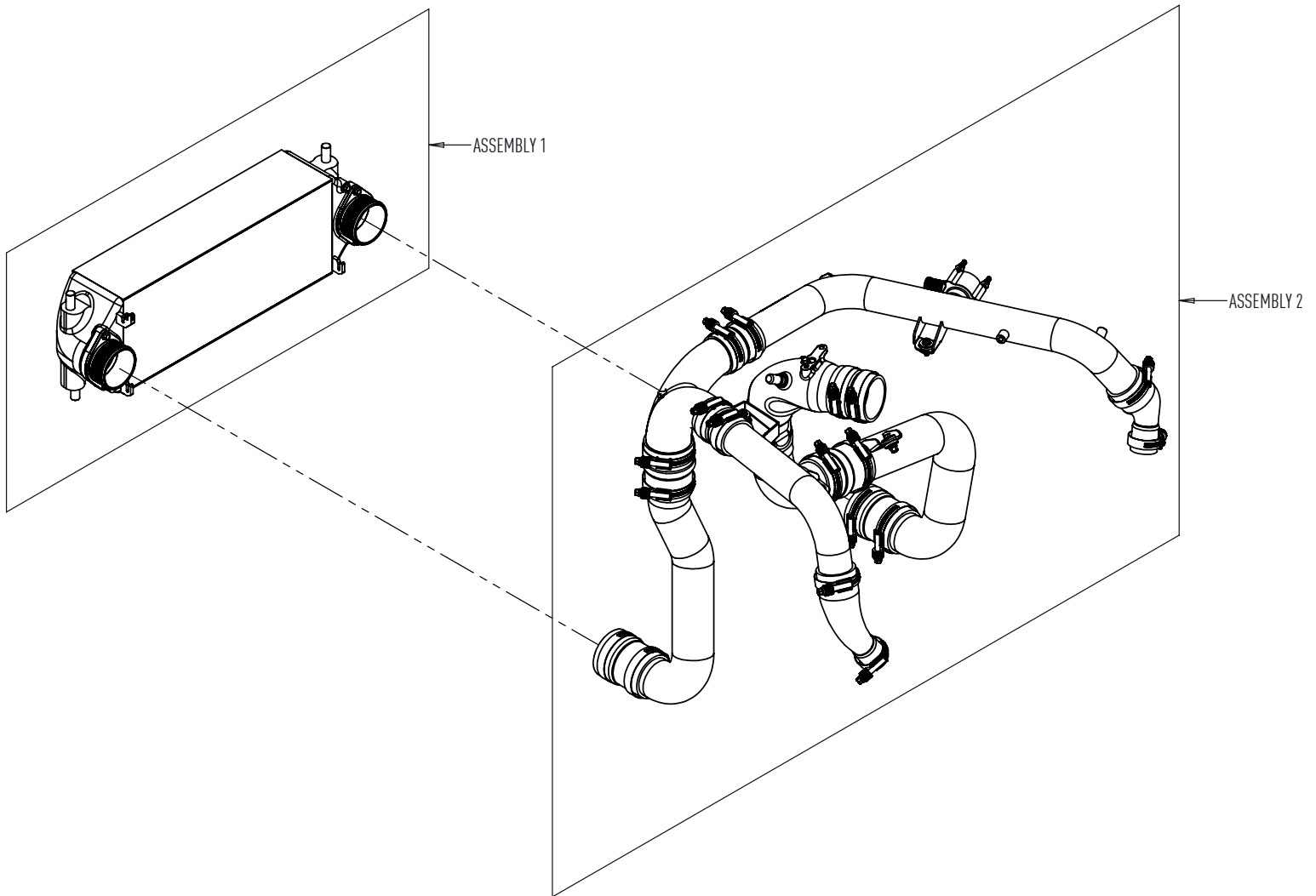
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RESOURCES & CONTACT

-  **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

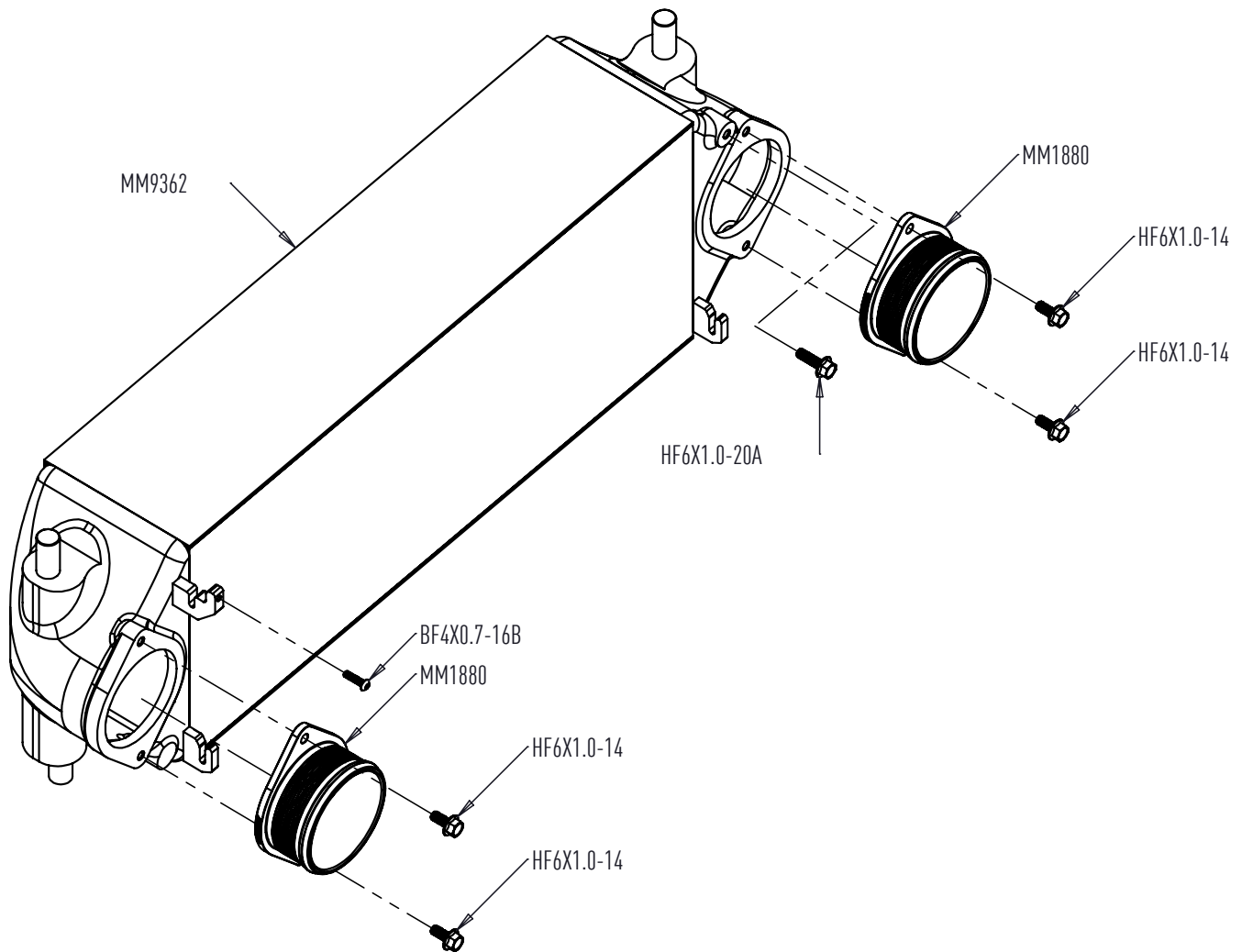
PARTS BREAKDOWN		
PART NUMBER	DESCRIPTION	QTY
ASSEMBLY 1	INTERCOOLER ASSEMBLY	1
ASSEMBLY 2	INTERCOOLER PIPING ASSEMBLY	1



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PARTS BREAKDOWN – ASSEMBLY 1

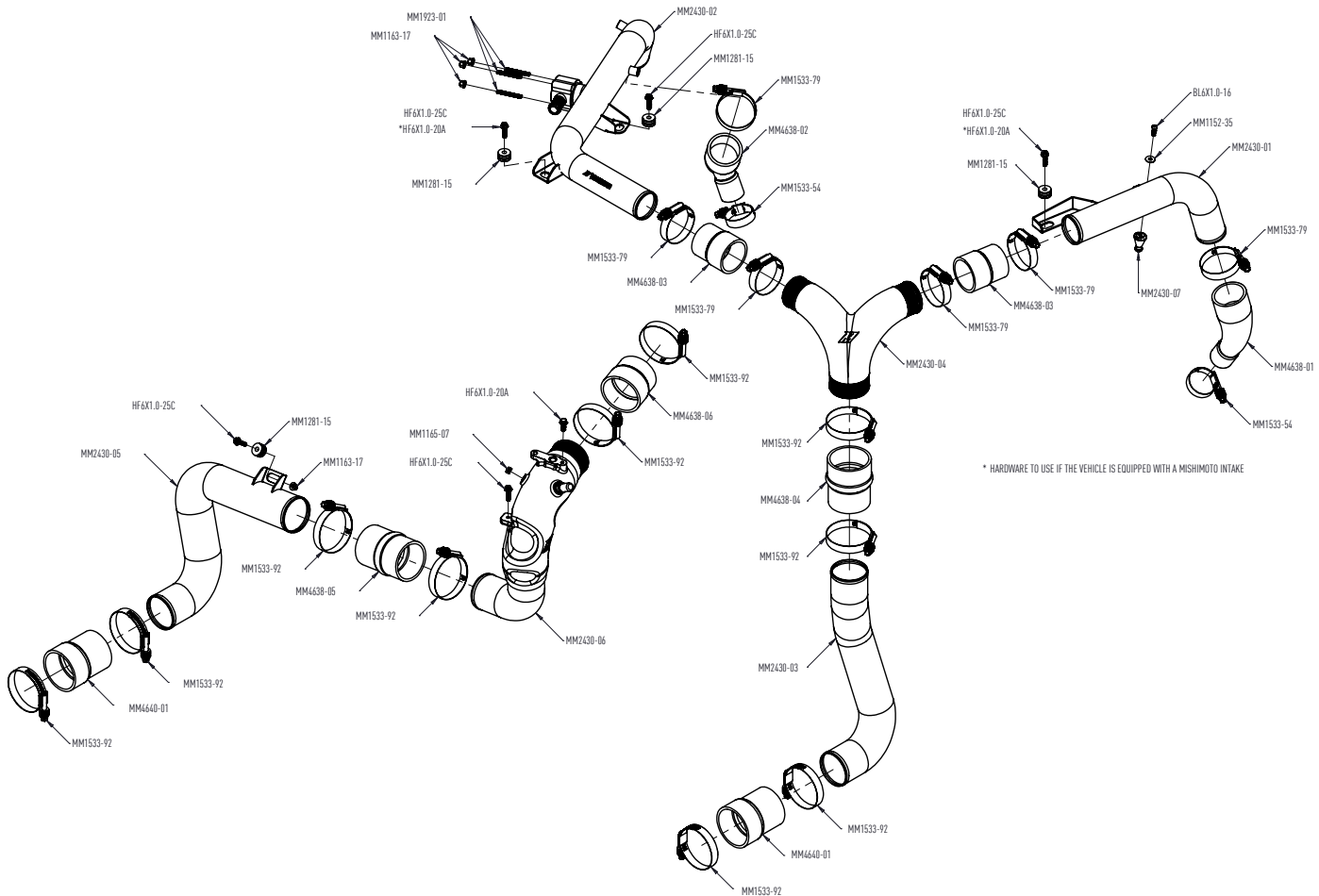
PART NUMBER	DESCRIPTION	QTY
MM9362	INTERCOOLER	1
MM1880	ADAPTER ASSEMBLY	2
B4X0.7-16B	BUTTON HEAD BOLT (16MM LONG)	1
HF6X1.0-14	HEX HEAD FLANGE BOLT (14MM LONG)	4
HF61.0-20A	HEX HEAD FLANGE BOLT (20MM LONG)	1



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PARTS BREAKDOWN – ASSEMBLY 2		
PART NUMBER	DESCRIPTION	QTY
MM2430-01	HOT-SIDE PIPE 1	1
MM2430-02	HOT-SIDE PIPE 2	1
MM2430-03	HOT-SIDE PIPE 3	1
MM2430-04	HOT-SIDE PIPE 4	1
MM2430-05	COLD-SIDE PIPE 1	1
MM2430-06	COLD-SIDE PIPE 2	1
MM2430-07	MOUNTING PEG	1
MM1281-15	GROMMET	4
BL6X1.0-16	BOLT 1	1
HF6X1.0-20A	BOLT 2	3
HF6X1.0-25C	BOLT 3	5
MM1923-01	GRUB SCREW	3

PARTS BREAKDOWN – ASSEMBLY 2 CONT.		
PART NUMBER	DESCRIPTION	QTY
MM1163-17	LOCKING NUT	4
MM1152-35	WASHER	1
M1164-03	ZIP TIE	4
MM4638-01	BOOT 1	1
MM4638-02	BOOT 2	1
MM4638-03	BOOT 3	2
MM4638-04	BOOT 4	1
MM4638-05	BOOT 5	1
MM4638-06	BOOT 6	1
MM4634-01	BOOT 7	2
MM1533-54	HD WG CLAMP	2
MM1533-79	HD WG CLAMP	6
MM1533-92	HD WG CLAMP	10



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

2.5MM ALLEN WRENCH	10MM SOCKET
3MM ALLEN WRENCH	15MM SOCKET
4MM ALLEN WRENCH	10MM WRENCH
4MM SOCKET OR E5 TORX	1/4" RATCHET AND EXTENSION
7MM SOCKET	3/8" RATCHET AND EXTENSION
8MM SOCKET	1/4" TORQUE WRENCH

INSTALL TIME: 4 HOURS

INSTALL DIFFICULTY: 

DISCLAIMER:

- › This vehicle has a mishimoto intake installed so some steps may be slightly different from stock.

INSTALLATION INSTRUCTIONS

1. Remove the front splash guard/skid plate.
2. Remove the lower intercooler mounting brackets.
3. Disconnect the hot and cold side intercooler pipes from the intercooler, then remove the intercooler.
4. Remove the intercooler mounting bushings from the stock intercooler and install them onto the Mishimoto intercooler.
5. Fasten the MM1880 adapter assemblies to the intercooler using the provided hardware. Torq the bolts to 10Nm (88.5 in-lbs).
(2x MM1880, 4x HF6x1.0-14)

If the Mishimoto intercooler is being installed on a vehicle equipped with the intercooler fan shroud, proceed to step 6. If the Mishimoto intercooler is being installed on a vehicle equipped without the intercooler fan shroud, proceed to step 7.



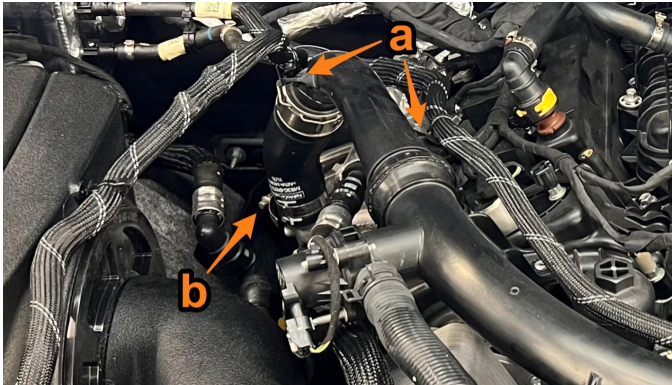
6. Remove the fan shroud from the stock intercooler and install it onto the Mishimoto intercooler using the provided hardware.
(1x HF6X1.0-20A, 1x B4X0.7-16B)



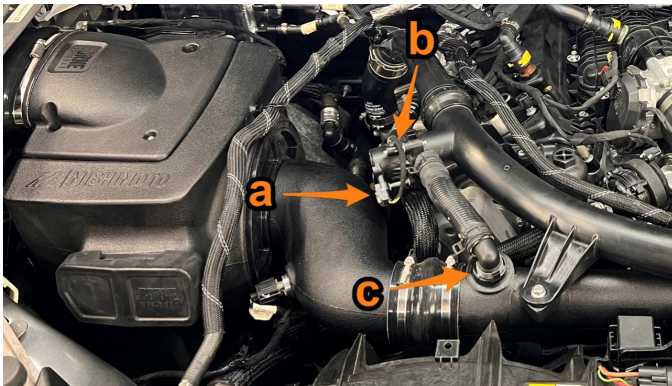
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7. Reinstall the lower intercooler mounting brackets.

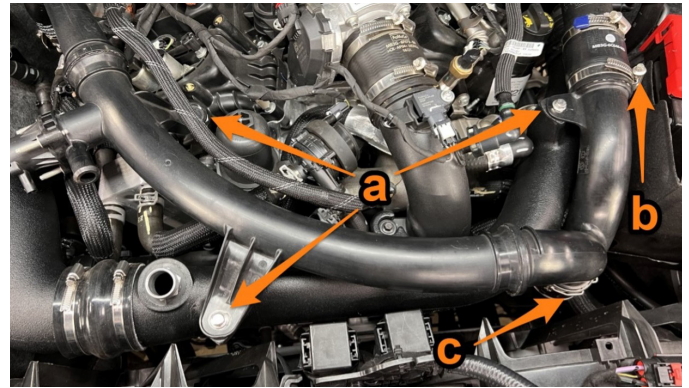
8. Using a trim clip tool, remove the two hose routing tree clips (a).
 Using a 7mm socket, loosen hose clamp (b)



9. Unplug the recirculation valve connector (a) and remove the two wire clips (b). Disconnect the recirculation hose quick disconnect fitting from the air intake (c). Using an E5 Torx or 4mm socket, remove the 3 stud bolts and remove the valve from the stock intercooler pipe.



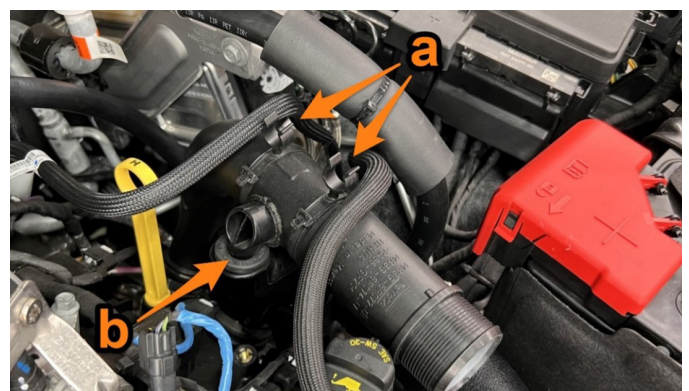
10. Using an 8mm socket, remove the three bolts securing the hot-side intercooler pipe to the air intake (a). Using a 7mm socket, loosen the hose clamp (b). Release the quick disconnect clip (c) and lift the passenger-side hot-side intercooler piping assembly out of the vehicle. (Image on top right)



11. Through the driver-side wheel well, use a 7mm socket to loosen the hose clamp.

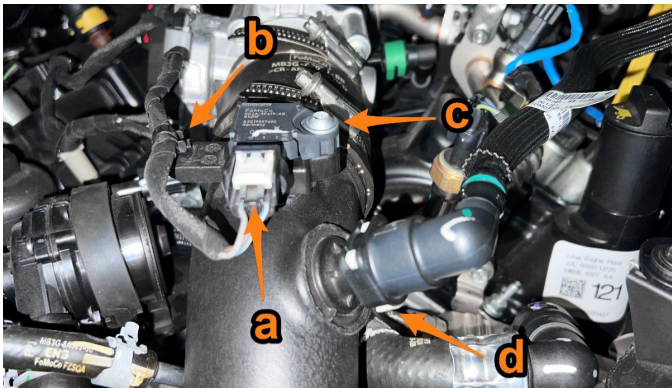


12. Remove the vacuum hoses from the two clips (a). Lift up and rotate the driver-side intercooler pipe back and forth to free it from the rubber mount (b). Remove the pipe from the vehicle.

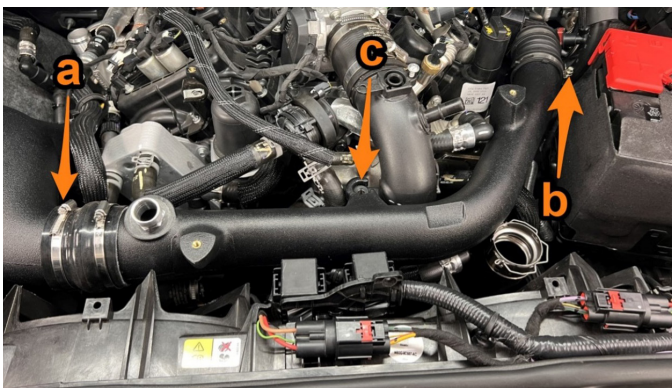


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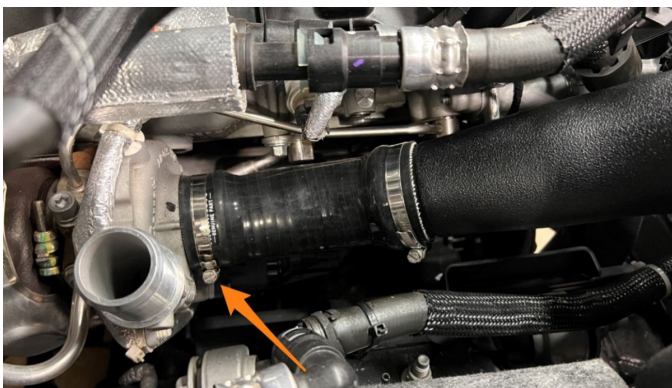
13. Unplug connector (a) and use a trim clip tool to remove tree clip (b). Using a T25 Torx, remove screw (c) and remove the sensor from the upper cold-side intercooler pipe.



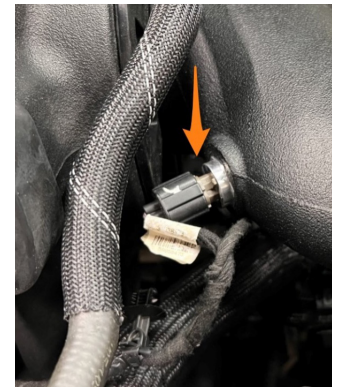
14. Using a 7mm socket, loosen hose clamps (a) and (b). Using an 8mm socket, remove bolt (c). Remove the intake pipe.



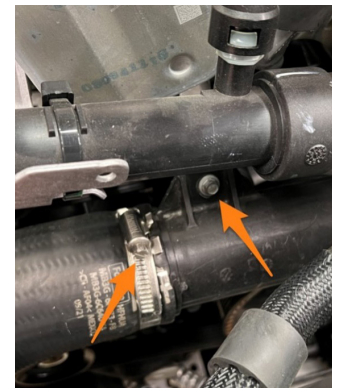
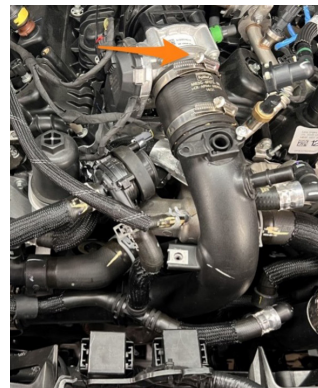
15. Using a 7mm socket, loosen the clamp on the passenger-side turbo.



16. Using an 8mm socket, remove the bolt securing the airbox in place (left image below). Remove the intake air temperature sensor (right image below) from the intake pipe by rotating it about ¼ turn counterclockwise and pulling out. Remove the airbox from the vehicle.



17. Using a 7mm socket, loosen the hose clamp on the throttle body (left image below). Using an 8mm socket on the bolt and 10mm wrench from behind the bracket to hold the nut in place, remove the bolt (right image below) Use a 7mm socket to loosen the hose clamp (right image below). Remove the upper cold-side intercooler pipe section.

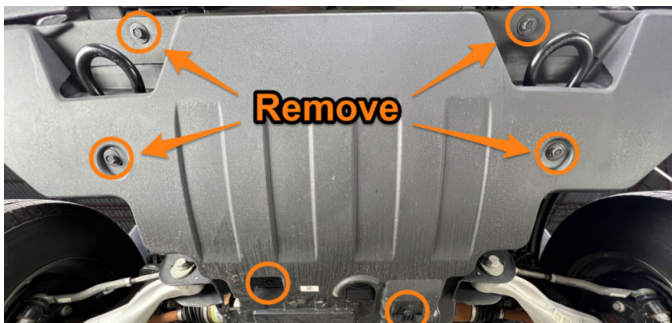


18. Using an 8mm socket, remove the bolt holding the ground strap and tuck the strap on top of the cross member.



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19. Using a 15mm socket, loosen the 2 rear bolts and completely remove the rest of the bolts. Remove the front skid plate/splash guard. Both the plastic splash guard and metal skid plate are shown below.



20. Rotate this transmission cooler line out of the way to give more room.



21. Using an 8mm socket, remove this bolt and tuck the hose/bracket out of the way.



22. Install a grommet onto cold-side pipe 1 as shown by first installing the rubber part then inserting the metal sleeve.



23. Install boot 7 onto the bottom of cold-side pipe 1 and hot-side pipe 3 with the smaller diameter inward. Push the boots all the way on as shown and slide 2x 92mm clamps on each pipe.



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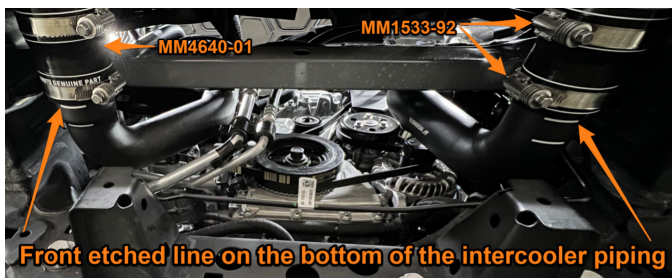
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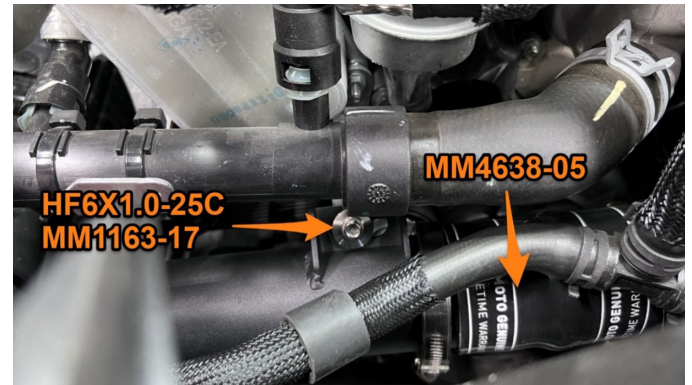
24. From the bottom of the vehicle, install cold-side pipe 1 on the passenger side and hot-side pipe 3 on the driver side. Reattach the ground strap from step 18.



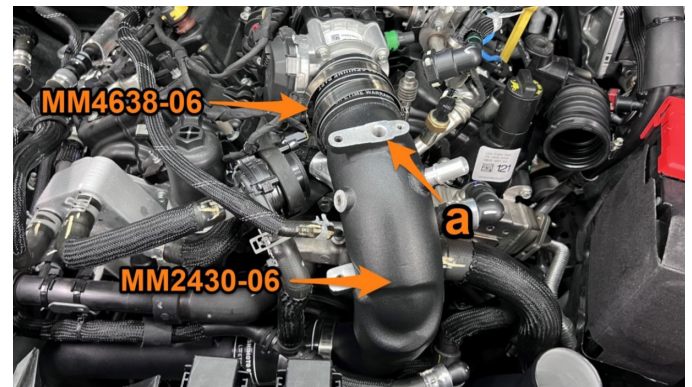
25. Once in position, slide the boots onto the intercooler adapters. The pipes should be inserted such that the edge of the boot is lined up with the 1st white line from the end of the pipe. Tighten the clamps.



26. Using a 10mm socket and wrench, fasten the passenger-side intercooler pipe to the bracket with the provided 6mm bolt and nut. Install the longer straight section of boot 5 onto the pipe and slide 2x 92mm clamps over the boot.



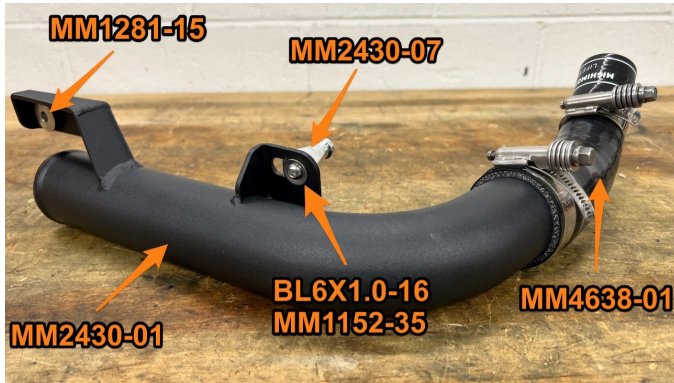
27. Install boot 6 onto the throttle body and slide 2x 92mm clamps over the boot. Insert the bottom of cold-side pipe 2 into the boot from the previous step then rotate the top into the boot on the throttle body. After ensuring proper alignment, use a 10mm socket to tighten all the clamps on the cold-side pipes. Using a 10mm socket, install the stock sensor into port (a) using the provided 6mm bolt, HF6X1.0-20A.



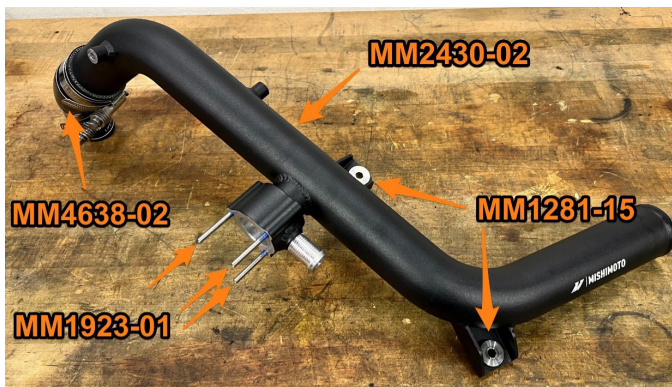
28. Reinstall the airbox and intake pipes.

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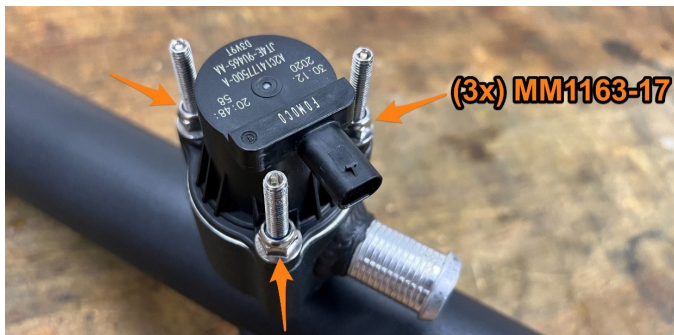
29. Install boot 1 onto hot-side pipe 1 then slide a 79mm clamp and 54mm clamp over the boot. Using a 4mm Allen wrench, loosely install the mounting peg with supplied M6 bolt and washer. Install the grommet.



30. Install boot 2 onto hot-side pipe 2 then slide a 79mm clamp and 54mm clamp over the boot. Using a 3mm Allen wrench, install the 3 grub screws into the housing until they bottom out. Install the two grommets into the brackets.



31. Using a 10mm socket, install the stock recirculation valve into the housing with the provided locking nuts.



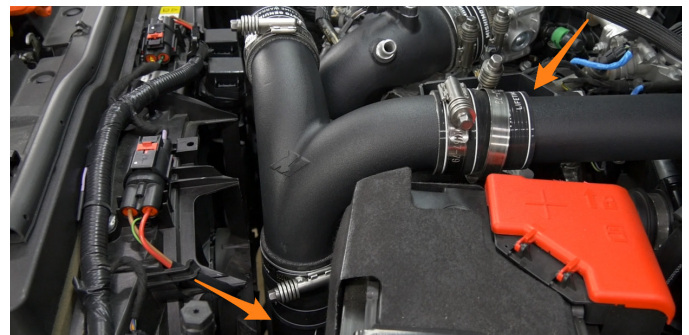
32. Install the larger diameter side of boot 3 onto both sides of hot-side pipe 4 then, slide 2x 79mm clamps onto each boot. Install the larger diameter side of boot 4 onto the bottom of the "Y" then slide 2x 92mm clamps onto the boot. Using a 10mm socket, loosely tighten the inner clamps.



33. Install the assembly from step 29 on the driver-side of the engine, being sure to get the peg into the rubber grommet on the intake pipe and the boot onto the turbo outlet. The peg can slide in its slot to accommodate proper alignment.

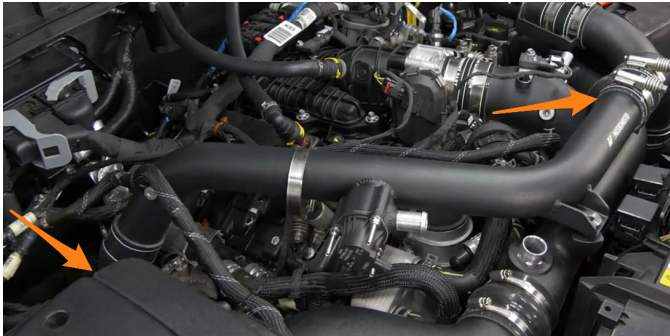


34. Install the lower boot of the assembly from step 32 onto the hot-side pipe coming from the intercooler, then slide the upper right boot onto the pipe from the previous step.



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35. Install the assembly from steps 30/31 on the passenger-side of the engine, being sure to get the boot onto the turbo outlet and the other end of the pipe into the other side of the "Y" from the previous step.



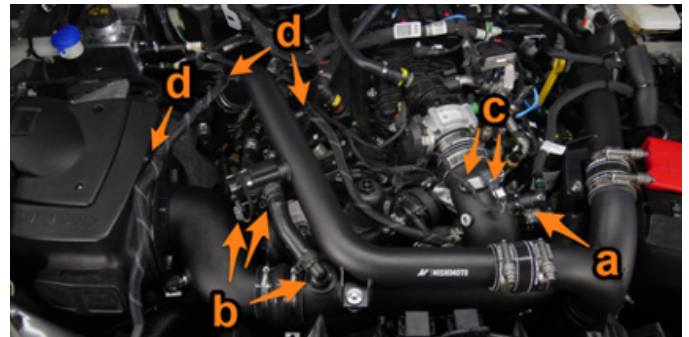
36. Adjust the pipes and boots until everything is aligned. The pipes are inserted far enough into the boots when the bead is roughly centered on the second white line from the edge of the boot. For cast/machined fittings, they should bottom out on the shoulder.

37. Using a 10mm socket, install the 3x provided HF6X1.0-25C bolts if using the stock intake. If using a Mishimoto intake, install the provided 1x HF6X1.0-25C and 2x HF6X1.0-20A bolts.

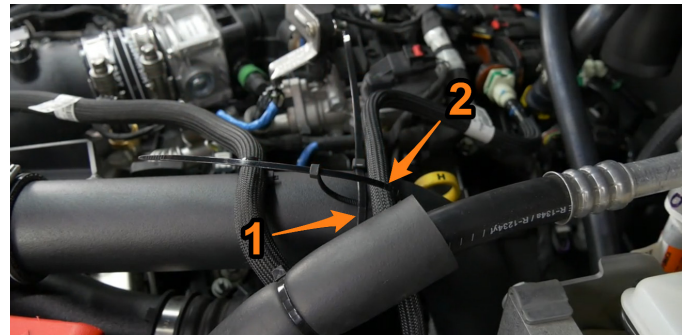


38. Using a 10mm socket, tighten all the hot-side pipe clamps. The clamp on the driver-side turbo outlet can be accessed through a hole in the fender liner.

39. Reconnect the CCV hose (a), recirculation pipe and clamp, and connector (b), pressure sensor connector and harness clip (c), and harness/hose tree clips (d).



40. Loop one zip tie around the Mishimoto intercooler pipe on the driver-side. Loop another zip tie through the first one and around the vacuum hose. Pull tight and trim the ends. Repeat this process for the other vacuum hose.



41. Rotate the hose/line from step 20 back into place and reinstall the bracket and bolt from step 21.

42. Reinstall the splash guard/skid plate.

Congratulations! You have completed 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

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