



INSTALLATION GUIDE

Charge Pipes Fit 2021+ Ford Bronco 2.7L

SKU: MMICP-BR27-21

TABLE OF CONTENTS

- Pg 1** RESOURCES AND CONTACT INFORMATION
- Pg 2** EXPLODED VIEW
- Pg 3** IMPORTANT SAFETY INFORMATION
 - SUPPLIED PARTS
 - REQUIRED TOOLS
 - INSTALLATION INSTRUCTIONS
- Pg 10** DISPOSAL INSTRUCTIONS
 - WARRANTY INFORMATION

RESOURCES & CONTACT

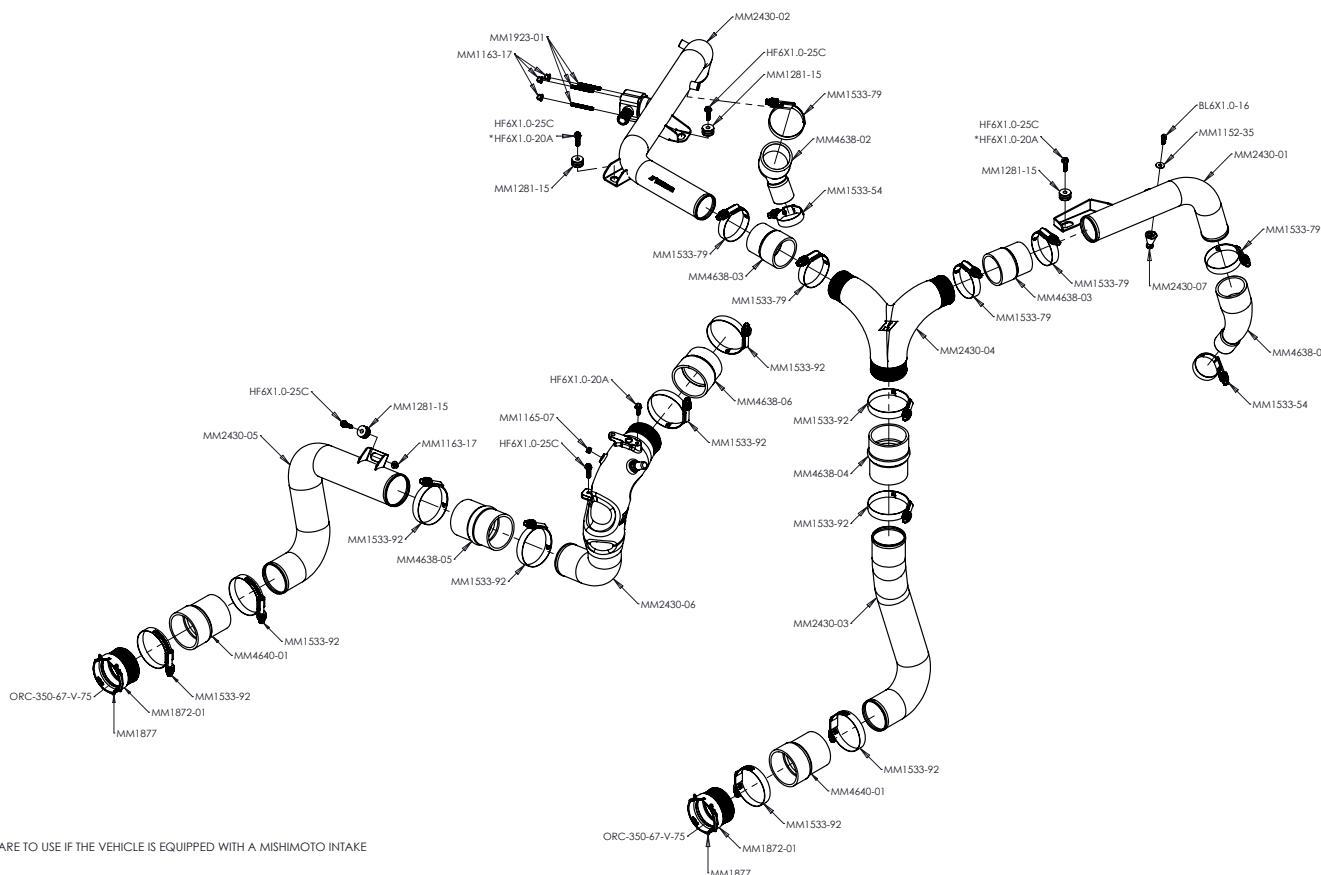
-  **CALL 1-877-GOMISHI**
CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST
-  **MISHIMOTO**
-  **GOMISHIMOTO**
-  **MISHIMOTO**
-  **WEBSITE**
WWW.MISHIMOTO.COM
-  **ENGINEERING BLOG**
WWW.MISHIMOTO.COM/ENGINEERING

PARTS BREAKDOWN

PART NUMBER	DESCRIPTION	QTY
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
MM1163-17	LOCKING NUT	4
MM1152-35	WASHER	1

PARTS BREAKDOWN

PART NUMBER	DESCRIPTION	QTY
MM1164-03	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
MM4640-01	BOOT 7	2
MM1533-54	HD WG CLAMP	2
MM1533-79	HD WG CLAMP	6
MM1533-92	HD WG CLAMP	10
MM1872-01	ADAPTER	2
MM1877	SPRING CLIP	2
ORC-350-67-V-75	O-RING	2



* HARDWARE TO USE IF THE VEHICLE IS EQUIPPED WITH A MISHIMOTO INTAKE

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

REQUIRED TOOLS

TRIM CLIP TOOL	1/4" RATCHET
PLIERS	3/8" RATCHET
4MM SOCKET OR E5 TORX	PICK TOOL
7MM SOCKET	3MM ALLEN WRENCH
8MM SOCKET	4MM ALLEN WRENCH
10MM SOCKET	10MM WRENCH
15MM SOCKET	

INSTALL TIME: 3 HOURS

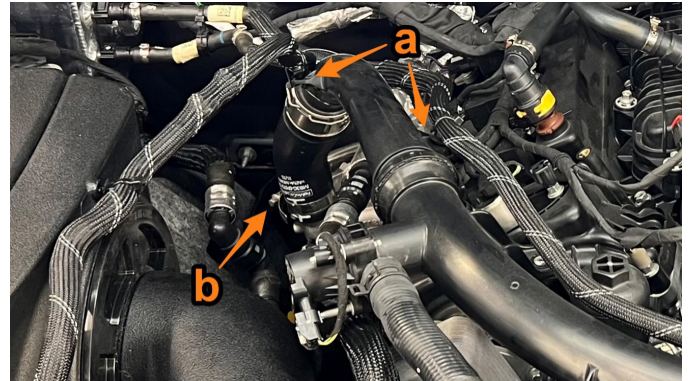
INSTALL DIFFICULTY:

DISCLAIMER:

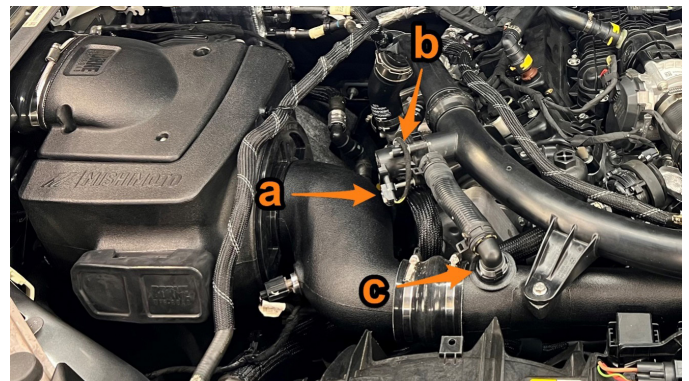
- › This vehicle has a Mishimoto intake installed so some steps may be slightly different from stock.

INSTALLATION INSTRUCTIONS

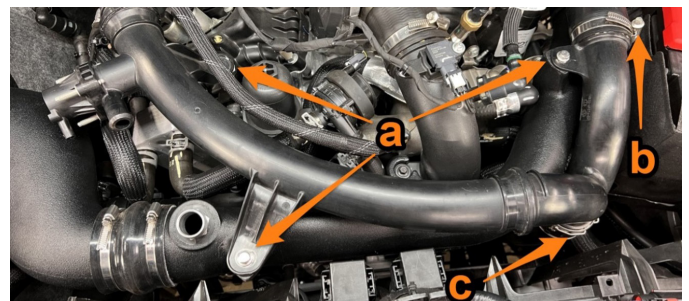
- 01.** Using a trim clip tool, remove the two hose routing tree clips (a). Using a 7mm socket, loosen hose clamp (b). *(Image on top right)*



- 2.** 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.



- 3.** 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.

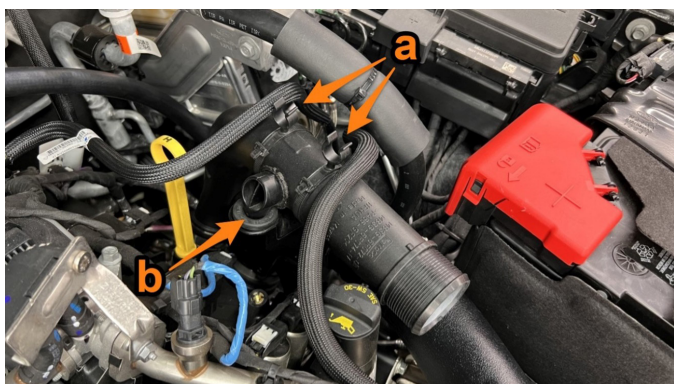


Continued on next page

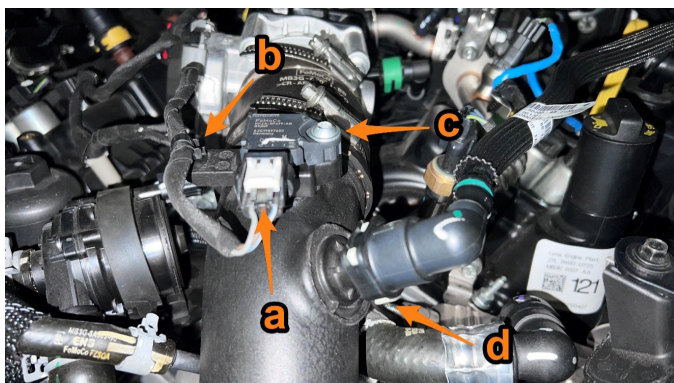
4. Through the driver-side wheel well, use a 7mm socket to loosen the hose clamp.



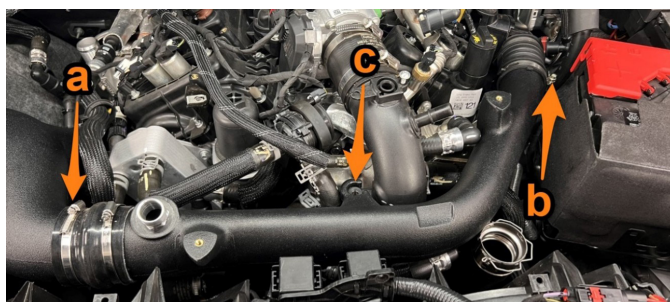
5. Remove the vacuum hoses from the two clips (a). Lift up and rotate the driver-side intercooler pipe back and forth to free it from the rubber mount (b). Remove the pipe from the vehicle.



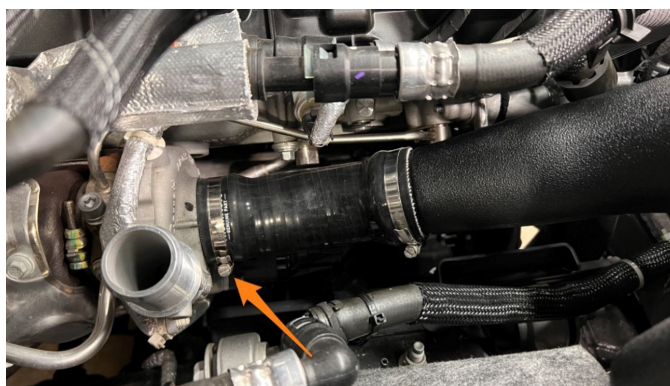
6. Unplug connector (a) and use a trim clip tool to remove tree clip (b). Using a T25 Torx, remove screw (c) and remove the sensor from the upper cold-side intercooler pipe.



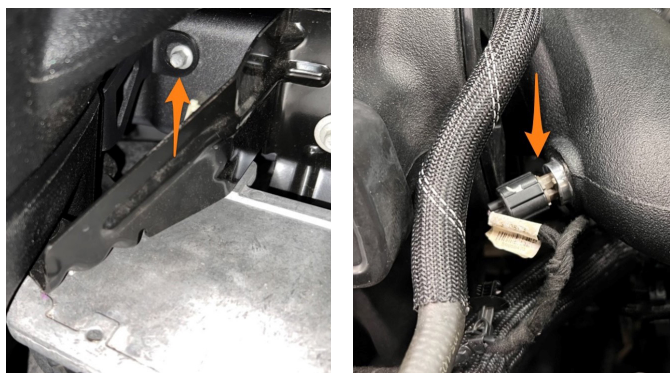
7. Using a 7mm socket, loosen hose clamps (a) and (b). Using an 8mm socket, remove bolt (c). Remove the intake pipe.



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

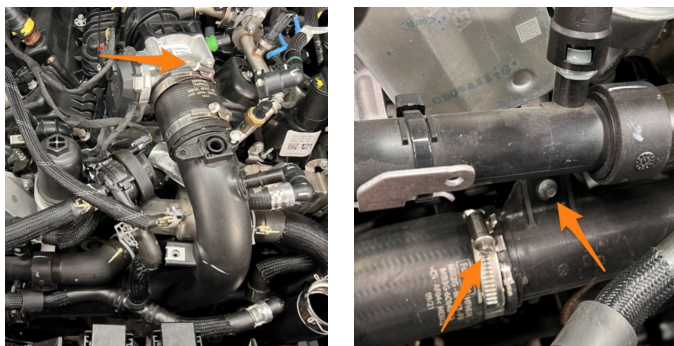


9. Using an 8mm socket, remove the bolt securing the airbox in place (left image below). Remove the intake air temperature sensor (right image below) from the intake pipe by rotating it about ¼ turn counterclockwise and pulling out. Remove the airbox from the vehicle.



Continued on next page

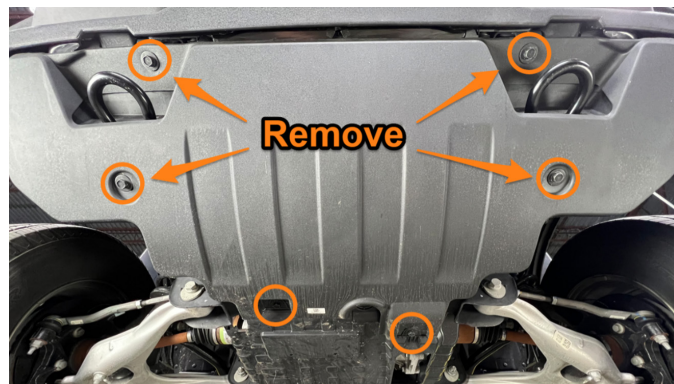
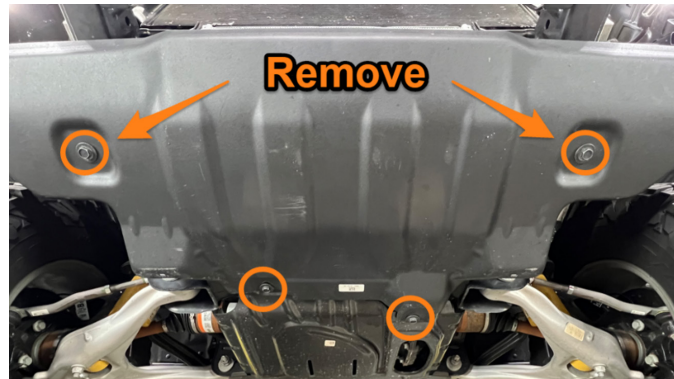
10. Using a 7mm socket, loosen the hose clamp on the throttle body (left image below). Using an 8mm socket on the bolt and 10mm wrench from behind the bracket to hold the nut in place, remove the bolt (right image below) Use a 7mm socket to loosen the hose clamp (right image below). Remove the upper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



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



12. 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. (Image on top right)

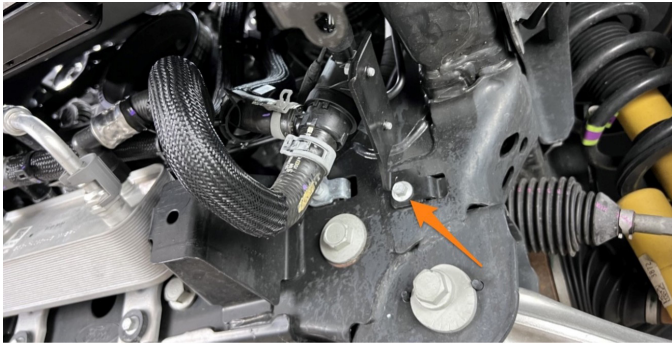


13. Rotate this transmission cooler line out of the way to give more room.



Continued on next page

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



15. Disengage the quick disconnect fittings on the lower charge pipes and remove the pipes by pulling out from the bottom of the vehicle.

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

***If using the stock intercooler, proceed to step 17. If using a Mishimoto stock-location intercooler, skip to step 18. If using a Mishimoto high-mount intercooler skip to step 19.**



17. Install the quick disconnect adapters onto the inlet and outlet of the intercooler. **Skip to step 20.**



18. Swap the quick disconnect adapters on the Mishimoto stock-location intercooler for the silicone boot adapters. **Skip to step 20.**



19. Remove the blue quick disconnect adapter and boot from the Mishimoto high-mount intercooler. **Skip to step 21.**



20. 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.

(Additional image on next page)



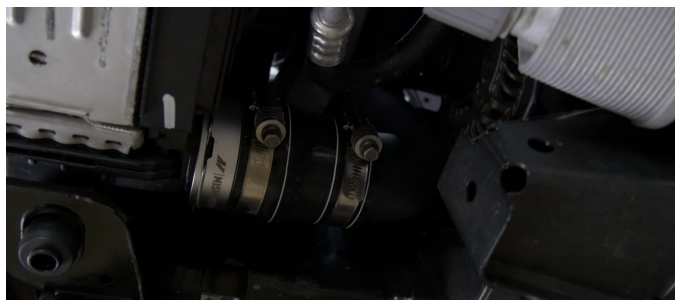
Continued on next page



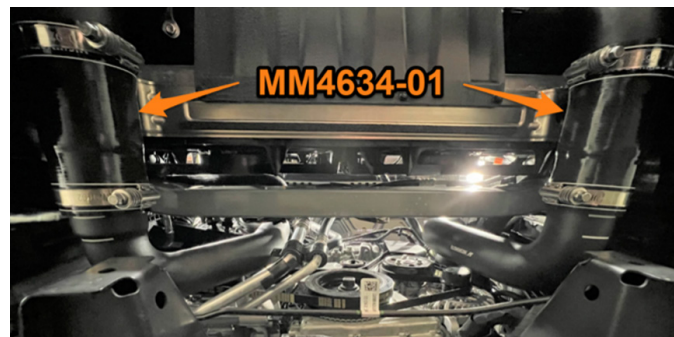
21. From the bottom of the vehicle, install cold-side pipe 1 on the passenger side and hot-side pipe 3 on the driver side. Reattach the ground strap from step 11. ***If using a stock intercooler or Mishimoto stock-location intercooler, proceed to step 22. If using a Mishimoto high-mount intercooler, skip to step 23.**



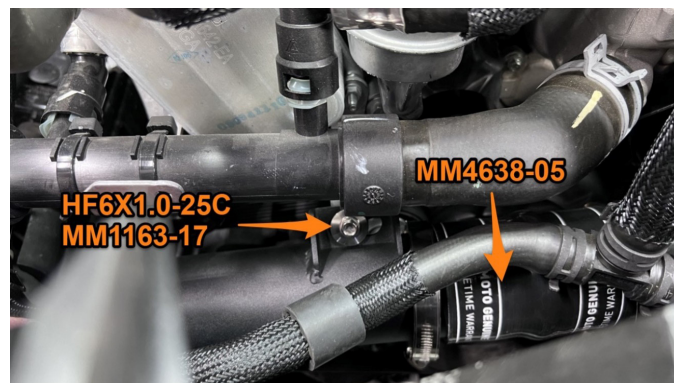
22. Once in position, slide the boots onto the intercooler adapters. If you're using a stock intercooler, the pipes should be inserted such that the edge of the boot is lined up with the 2nd white line from the end of the pipe and the 1st line if using a Mishimoto stock-location intercooler. Position the clamps on the boots and loosely tighten them. **Skip to step 24.**



23. Slide 2x 92mm clamps onto each pipe then install the 2 boots, MM4634-01, with the larger diameter toward the Mishimoto high-mount intercooler. The pipes should be inserted such that the edge of the boot is lined up with the first white line from the end of the pipe.

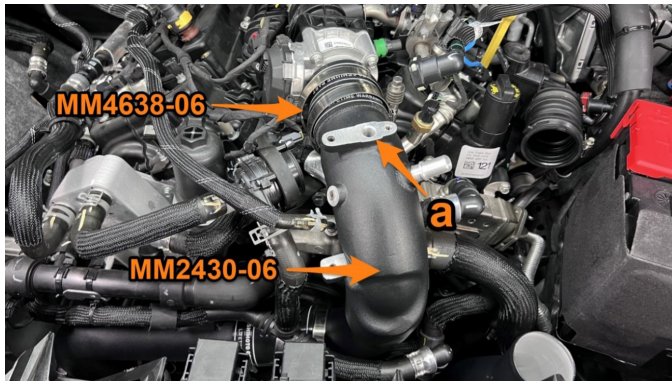


24. Using a 10mm socket and wrench, fasten the passenger-side intercooler pipe to the bracket with the provided 6mm bolt and nut. Install the longer straight section of boot 5 onto the pipe and slide 2x 92mm clamps over the boot.



25. 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. **[Image on next page]**

Continued on next page

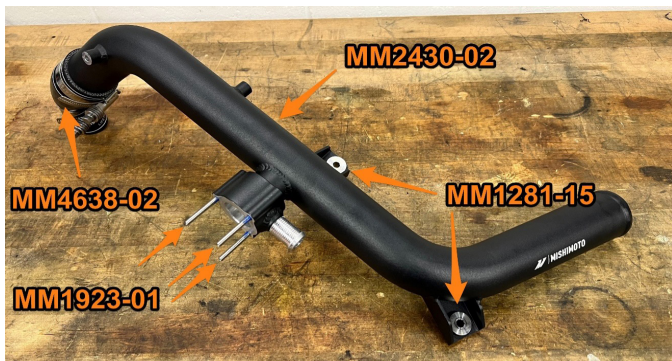


26. Reinstall the airbox and intake pipes.

27. 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.



28. 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.



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



30. 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.

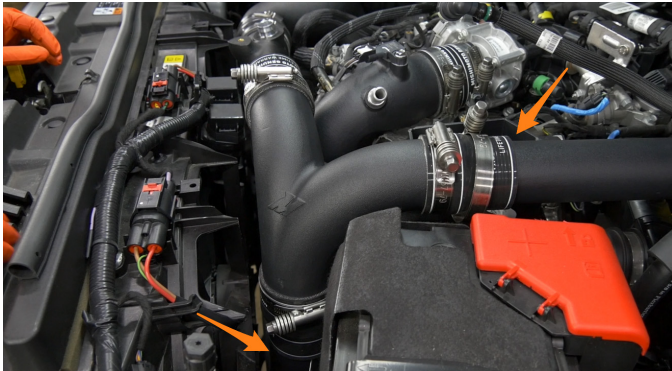


31. Install the assembly from step 26 on the driver-side of the engine, being sure to get the peg into the rubber grommet on the intake pipe and the boot onto the turbo outlet. The peg can slide in its slot to accommodate proper alignment.



Continued on next page

32. Install the lower boot of the assembly from step 29 onto the hot-side pipe coming from the intercooler, then slide the upper right boot onto the pipe from the previous step.



33. Install the assembly from steps 27/28 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.

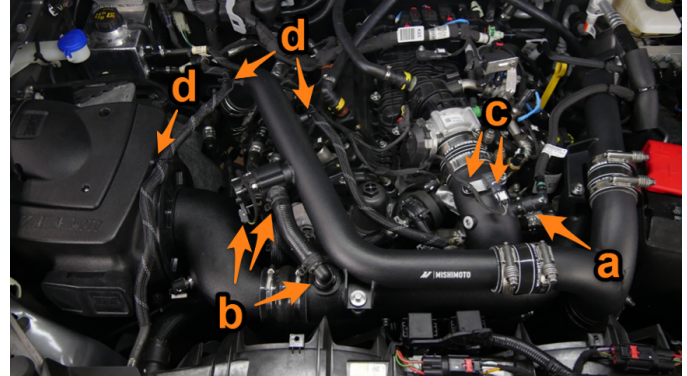


34. Adjust the pipes and boots until everything is aligned. The pipes are inserted far enough into the boots when the bead is roughly centered on the second white line from the edge of the boot. For cast/machined fittings, they should bottom out on the shoulder.

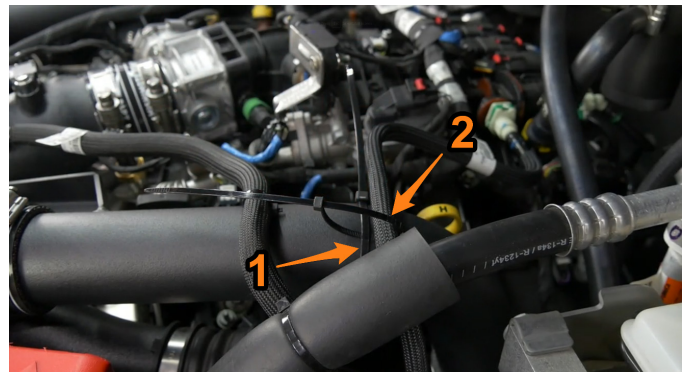
35. Using a 10mm socket, install the 3x provided HF6X1.0-20A (if using a Mishimoto intake). (Image on top right)

36. 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.

37. 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).



38. 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.



39. Rotate the hose/line from step 13 back into place and reinstall the bracket and bolt from step 14.

40. Reinstall the splash guard/skid plate.

41. This concludes the installation.

Congratulations! You have now completed your installation!

Continued on next page

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