



# INSTALLATION GUIDE

2019+ FORD RANGER PERFORMANCE INTERCOOLER  
PIPE & BOOT KIT | SKU: MMICP-RGR-19

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## RESOURCES & CONTACT



**CALL 1-877-GOMISHI**

CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST



**MISHIMOTO**



**GOMISHIMOTO**



**MISHIMOTO**



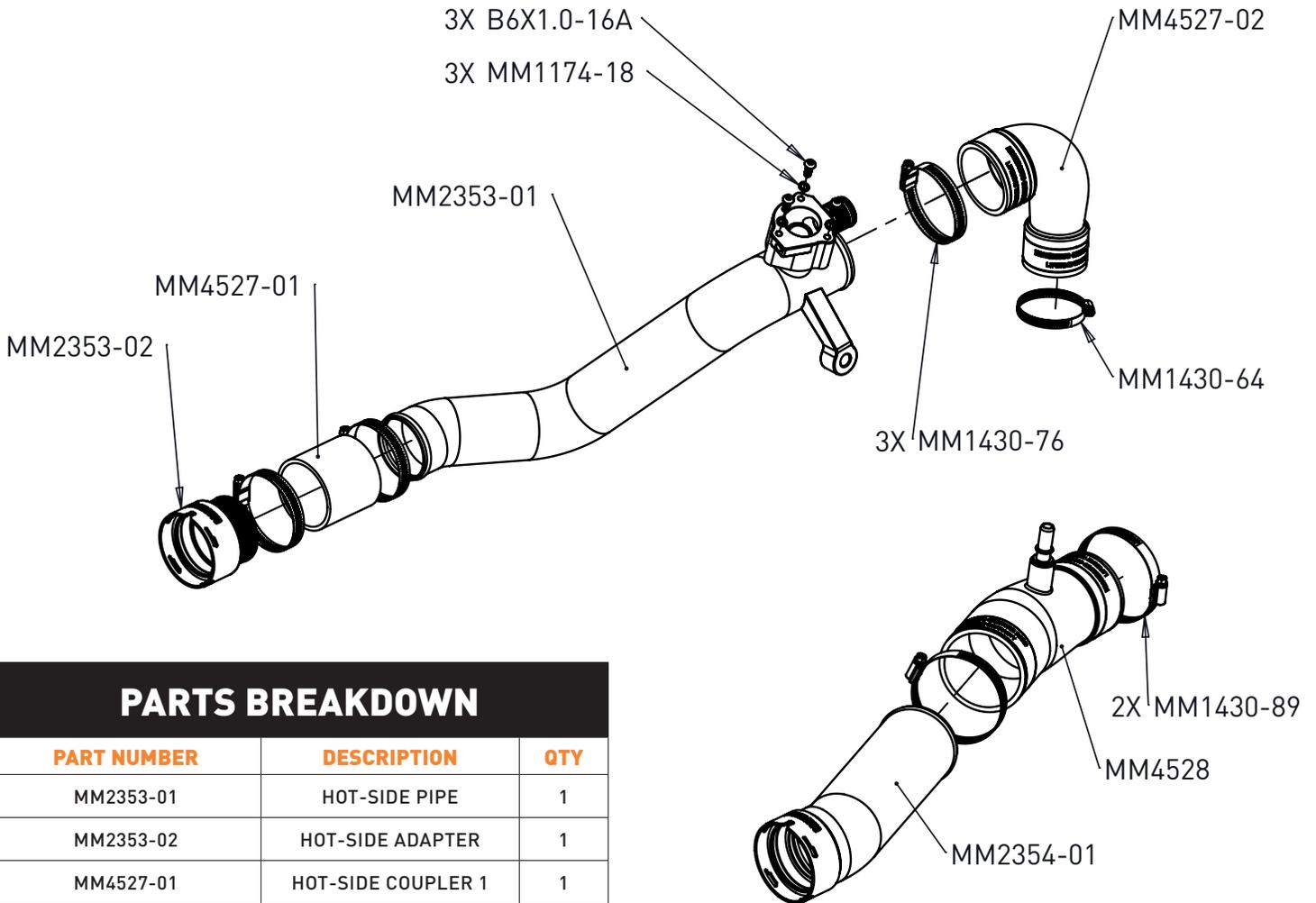
**WEBSITE**

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



**ENGINEERING BLOG**

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



### PARTS BREAKDOWN

PART NUMBER	DESCRIPTION	QTY
MM2353-01	HOT-SIDE PIPE	1
MM2353-02	HOT-SIDE ADAPTER	1
MM4527-01	HOT-SIDE COUPLER 1	1
MM4527-02	HOT-SIDE COUPLER 2	1
MM1430-76	HIGH TORQUE WORM GEAR CLAMP	3
MM1430-64	HIGH TORQUE WORM GEAR CLAMP	1
B6X1.0-16A	BOLT	3
MM1174-18	LOCK WASHER	3
MM2354-01	COLD-SIDE PIPE	1
MM4528	COLD-SIDE COUPLER	1
MM1430-89	HIGH TORQUE WORM GEAR CLAMP	2

### 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

### INSTALLATION TIME **1 HOUR**

### INSTALLATION DIFFICULTY

### TOOLS NEEDED

- |                           |  |
|---------------------------|--|
| ¼" RATCHET AND EXTENSIONS | SPRING CLAMP TOOL OR CHANNEL LOCK PLIERS |
| 7MM, 8MM, 13MM SOCKET     |  |

### INSTALLATION INSTRUCTIONS

- 01.** Unbolt and remove the air duct from the airbox. (2x 8mm bolts)



- 02.** Loosen 2x worm gear clamps, disconnect the vacuum line and tree clip at the back of the intake hose, then remove the rubber intake hose.



- 03.** Unbolt the stock hot-side (passenger side) intercooler pipe from the engine block. (1x 13mm bolt)



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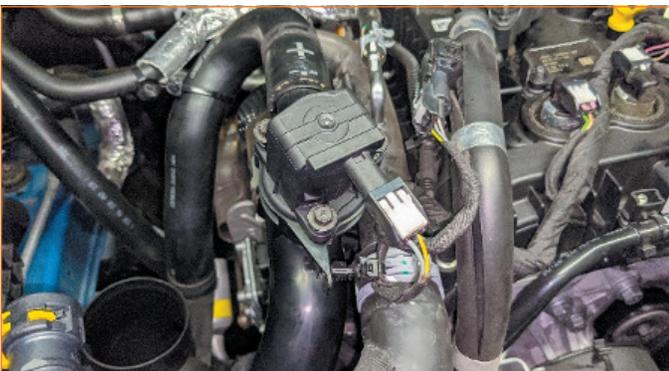
**04.** Disengage the spring clip as shown (this is the 'disengaged position') and disconnect the hot-side pipe from the intercooler.



**05.** Loosen the worm gear clamp at the turbo side.



**06.** Unplug and remove the blow-off valve from hot-side pipe. (3x 8mm plastic screws, 1x tree clip)



**07.** Disconnect the BOV hose. (1x spring clamp)



**08.** Remove the stock hot-side pipe assembly from the vehicle.

**09.** Remove the spring clip from hot-side pipe coupling and transfer it over to the Mishimoto hot-side pipe push-on adapter. Spring clip must be installed in the 'engaged position', as shown, before pushing it onto the intercooler inlet port. You should hear and feel the spring clip click into position. Pull on the adapter to ensure the spring clip is engaged.



**10.** Install the turbo-side silicone hose with 2x high-torque worm gear clamps. Locate the polybag with 4x clamps; the single smallest clamp goes on the turbo end of the hose. Leave the clamps loose.

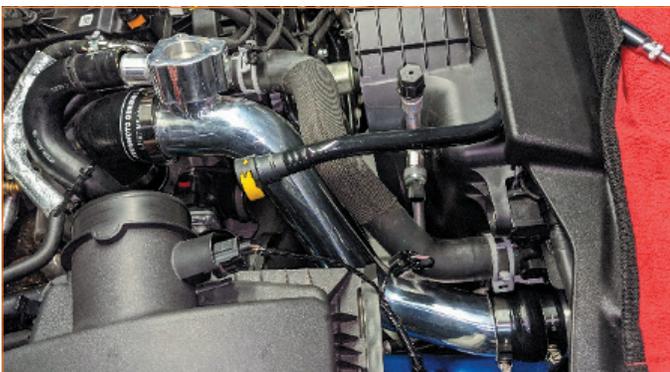
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**11.** Install the short silicone coupler with 2x larger clamps left in the 4-clamp polybag. Leave the clamps loose.



**12.** Install the aluminum pipe section and secure it to the engine block with the original 13mm bolt you previously removed. Do not fully tighten.



**13.** Align the pipe and silicone couplers. Adjust the clamps, ensuring they are seated between the white lines on each end of the silicone hose and are behind the beadroll/barb of the pipe, turbo port or CNC adapters. Fully tighten all 4x worm gear clamps and the 13mm bolt.

**14.** Install the blow-off valve with provided hardware. (3x 4mm M6 bolts, 3x locking washers)

**15.** Connect the blow-off valve hose with the original spring clamp. The hot-side intercooler piping install is now complete.



**16.** Disconnect vacuum fitting from the stock cold-side (driver side) pipe, close to the throttle body.



**17.** Disconnect the cold-side pipe from the intercooler following the same procedure as step 4.

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18. Loosen the worm gear clamp at the throttle body.



19. Remove the stock cold-side pipe assembly from the vehicle.

20. Install the Mishimoto cold-side pipe section, following the same procedure as step 9.



21. Install the cold-side silicone coupler with 2x high-torque worm gear clamps packaged in a separate polybag. Adjust the silicone hose, pipe, and clamps following the same procedure as step 13. Fully tighten all clamps.



22. Connect the vacuum line with the blue fitting on the cold-side silicone hose. The cold-side intercooler pipe install is now complete.



**Congratulations! You have finished your installation.**

***\*For Disposal Instructions and Warranty Information continue to the following page.***

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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](http://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](http://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](http://www.p65warnings.ca.gov)