



# INSTALLATION GUIDE

Intercooler Kit, Fits 2019+ Ram 6.7L Cummins  
SKU: MMINT-RAM-19K

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## RESOURCES & CONTACT



**CALL 1.877.466.4744**

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



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**ENGINEERING BLOG**

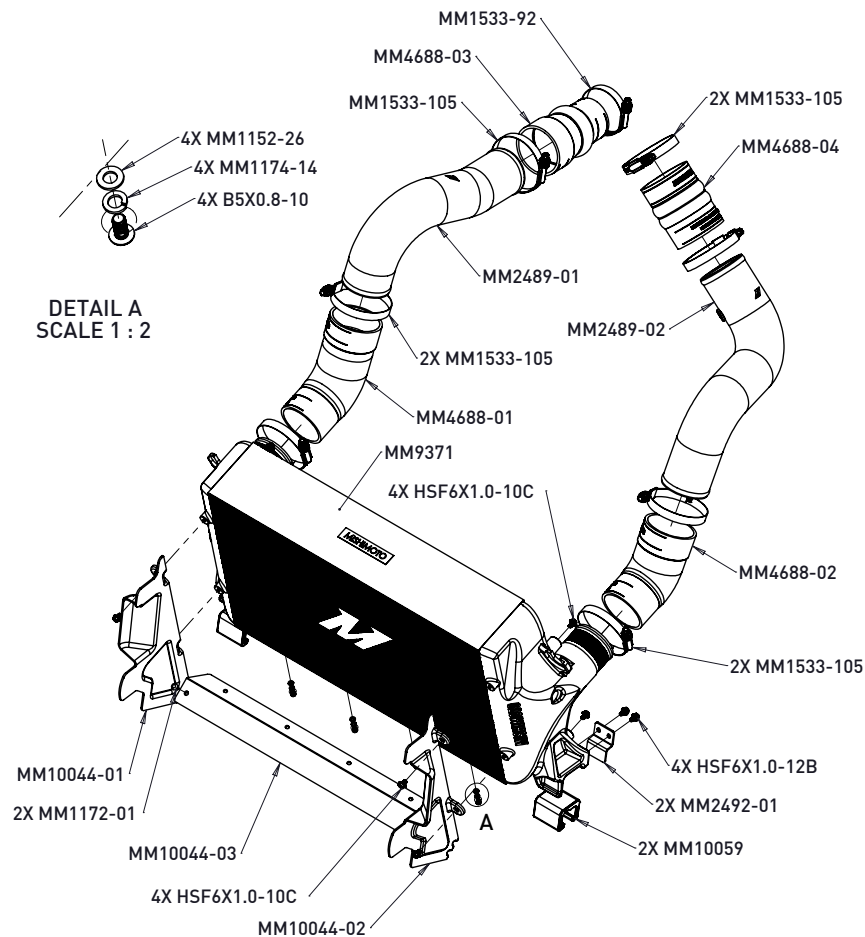
[WWW.MISHIMOTO.COM/ENGINEERING](http://WWW.MISHIMOTO.COM/ENGINEERING)

## PARTS BREAKDOWN

PART NUMBER	DESCRIPTION	QTY
MM9371	INTERCOOLER ASSEMBLY	1
MM2489-01	PIPE 1	1
MM2489-02	PIPE 2	1
MM4688-01	COUPLER 1	1
MM4688-02	COUPLER 2	1
MM4688-03	COUPLER 3	1
MM4688-04	COUPLER 4	1
MM10044-01	SHROUD 1	1
MM10044-02	SHROUD 2	1
MM10044-03	SHROUD 3	1

## PARTS BREAKDOWN

PART NUMBER	DESCRIPTION	QTY
MM10059	ISOLATOR	2
HSF6X1.0-10C	HEX HEAD SERRATED FLANGE BOLT 10MM	8
MM2492-01	BRACKET	2
HSF6X1.0-12B	HEX HEAD SERRATED FLANGE BOLT 12MM	4
MM1172-01	POP CLIP	2
MM1533-92	CONSTANT TENSION WORM GEAR CLAMP 92MM	1
MM1533-105	CONSTANT TENSION WORM GEAR CLAMP 105MM	7
MM1152-26	M5 WASHER	4
MM1174-14	M5 LOCK WASHER	4
B5X0.8-10	M5 BUTTON HEAD BOLT	4



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### 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

POP CLIP TOOL	8MM SOCKET
13MM WRENCH (RATCHETING IDEAL)	10MM SOCKET
18MM WRENCH	13MM SOCKET
1/4" RATCHET	18MM SOCKET
1/2" RATCHET	24MM SOCKET OR WRENCH

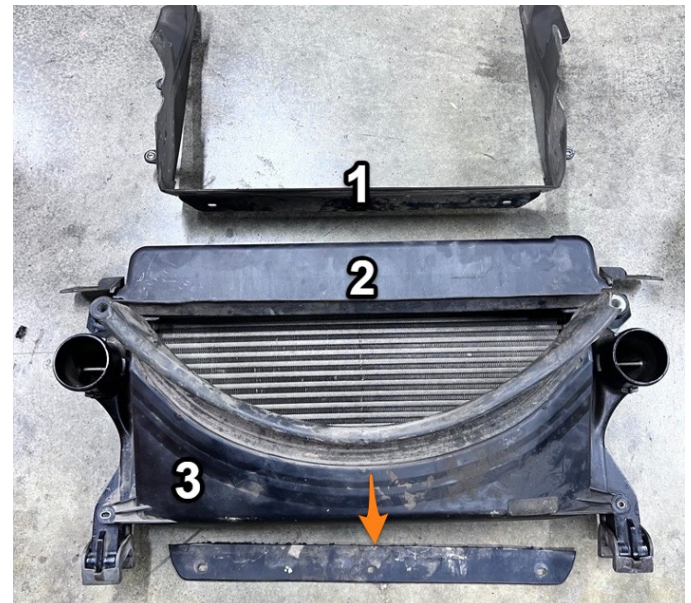
**INSTALL TIME: 5 HOURS**

**INSTALL DIFFICULTY:** 

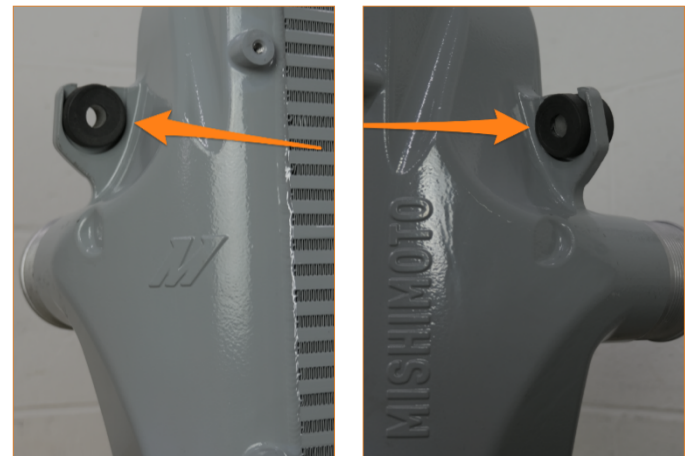
### INSTALLATION INSTRUCTIONS

**\*Note:** To avoid potential injury, wait for the vehicle to completely cool off before working in the engine bay.

1. Remove the stock intercooler, all shrouding, and the charge pipes from the vehicle. Stock shrouding 1 and 2 will not be used with the Mishimoto intercooler. Trim stock shrouding 3 at the line shown below with the arrow so the cut is flush with the core face of the stock intercooler, then discard the strip.



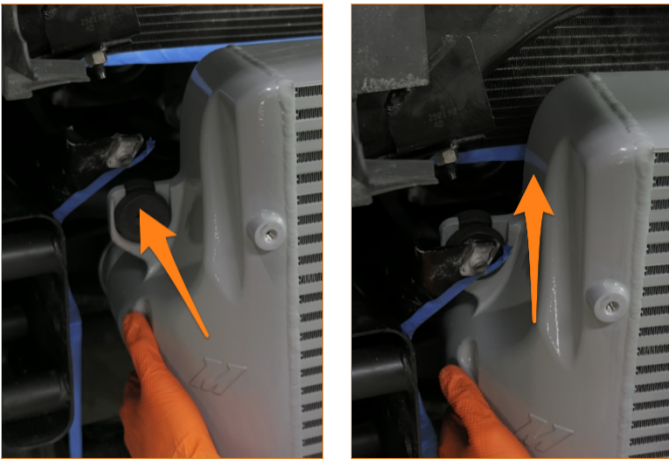
2. Swap the stock upper mounts onto the Mishimoto intercooler.



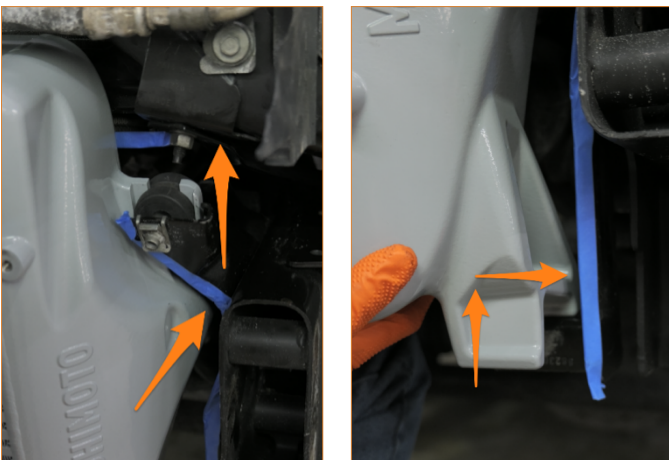
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**3.** Note: masking tape can be used on the brackets to avoid scratching the paint during intercooler installation. Starting on the passenger side, hold the intercooler at an angle to the front of the vehicle, maneuver the upper mount under the bracket, and then lift it up once it's behind it.

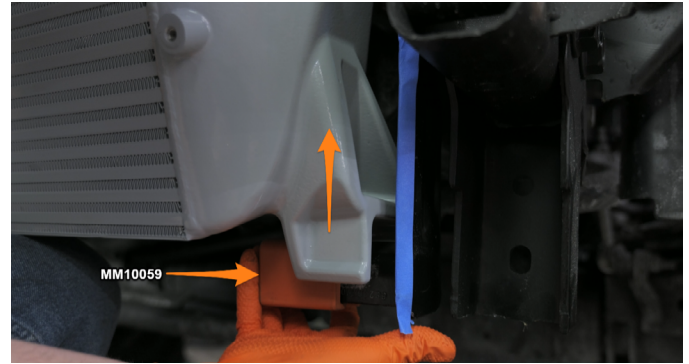


**4.** Repeat for the opposite side, then lift the intercooler to bring the bottom "C" shaped mounts up and over the lower pegs.

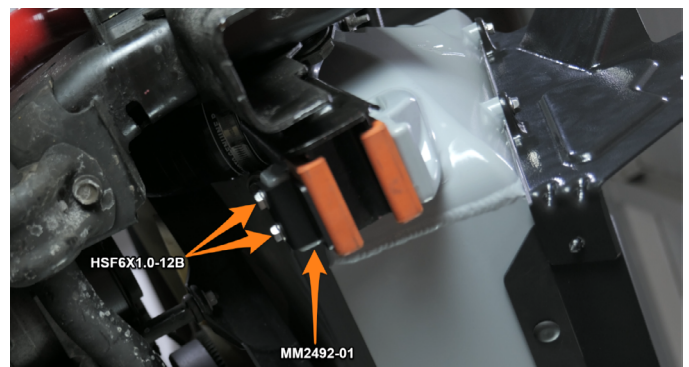


**5.** Working one side at a time, lift the intercooler slightly and slide the provided isolator between the intercooler and lower mount. Fasten the upper mount using the stock hardware (13mm wrench).

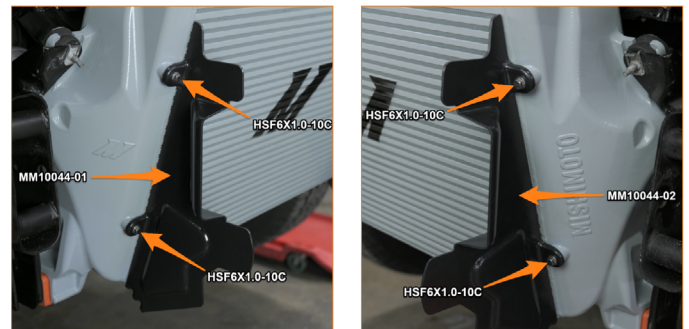
(Image on top right)



**6.** Install a bracket on each side of the lower mount and fasten using the supplied bolts (10mm socket).



**7.** Install shrouds 1 and 2 using the provided bolts (10mm socket).



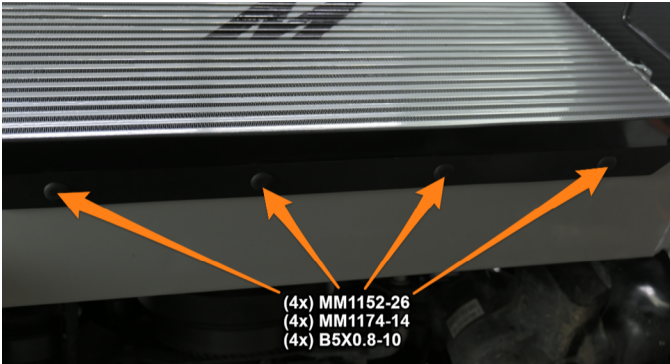
**8.** Install shroud 3 using the supplied pop clips.



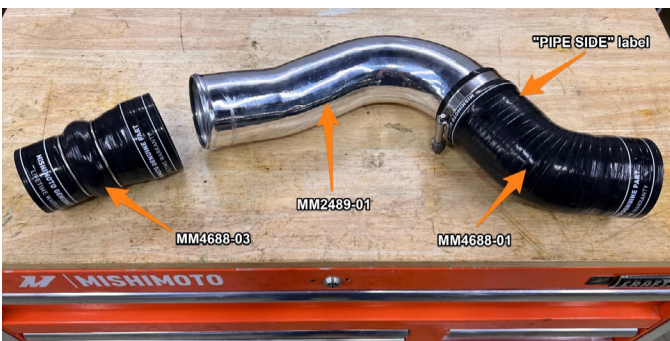
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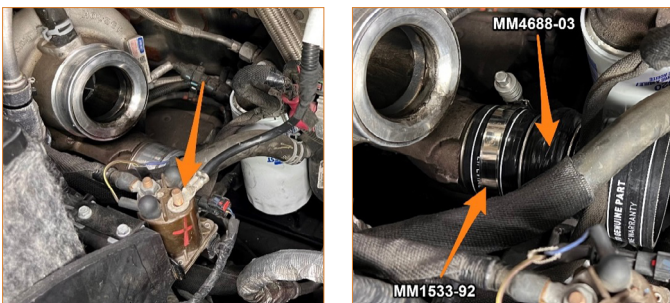
9. Fasten shroud 3 to the bottom plate using the provided M5 hardware (8mm socket). (Prototype shown with different hardware).



10. The hot side charge pipe and couplers are installed in the orientation shown below. Install coupler 1 onto pipe 1 in the orientation shown (label toward the pipe) and fasten with a 105mm worm gear clamp. It will be installed as an assembly and adjusted once installed. Note: Silicone grease can be used on the joints to make installation and adjustment of couplers easier.



11. Remove the nut fastening the wire shown and tuck out of the way (13mm socket) for easier installation. Be careful not to ground the opposite terminal, as this is a hot positive lead. Slide a 92mm worm gear clamp onto the turbo outlet, then install coupler 3.



12. Slide one 105mm worm gear clamp onto coupler 3 and one on the intercooler inlet, and then install the pipe assembly from step 8 into the vehicle. Loosen the clamp from step 8 and adjust the pipe and couplers to fit properly. Ensure they have clearance around other objects, and then tighten all the clamps using a 10mm socket. Reinstall the wire from the previous step.



13. The cold side charge pipe and couplers are installed in the orientation shown below. Install couplers 2 and 4 onto pipe 2 in the orientation shown (label toward the pipe) and fasten with 105mm worm gear clamps. It will be installed as an assembly and adjusted once installed.



14. Note: the power steering reservoir can be unbolted and moved out of the way to make the following steps easier (10mm socket). Slide one 105mm worm gear clamp onto the other end of coupler 4 and one on the intercooler outlet, and then install the pipe assembly from step 11 into the vehicle. Loosen the clamps from step 11 and adjust the pipe and couplers to fit properly. Ensure they have clearance around other objects, and then tighten all the clamps using a 10mm socket. Reinstall the power steering reservoir.

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**15.** Reinstall the stock lower fan shroud using the provided M6 bolts (4x HSF6X1.0-10C), and then reassemble the rest of the vehicle as you would with the stock intercooler.

**16.** Test drive and check for boost leaks.

**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](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.



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Reproductive Harm  
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- › 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)