



# INSTALLATION GUIDE

1999–2013 Chevrolet Silverado/GMC Sierra Transmission Cooler

SKU: MMTC-GMT-99

## TABLE OF CONTENTS

- Pg 1** RESOURCES AND CONTACT INFORMATION
- Pg 2** IMPORTANT SAFETY INFORMATION  
REQUIRED TOOLS  
INSTALLATION INSTRUCTIONS
- Pg 6** 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](http://WWW.MISHIMOTO.COM)
-  **ENGINEERING BLOG**  
[WWW.MISHIMOTO.COM/ENGINEERING](http://WWW.MISHIMOTO.COM/ENGINEERING)

## 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

PICK TOOL	FLUID COLLECTION BUCKET AND/OR FLUID ABSORBING MAT
¼" DRIVE 10MM SOCKET	BRAKE CLEAN OR EQUIVALENT CLEANER
¼" DRIVE EXTENSIONS	NEEDLE NOSE PLIERS
¼" DRIVE RATCHETING WRENCH	PENETRATING FLUID
10MM WRENCH	1 QT. TRANSMISSION FLUID DEXTRON VI OR EQUIVALENT
PUSH CLIP REMOVAL TOOL	
PHILLIPS HEAD SCREWDRIVER	

**INSTALL TIME: 1 HOUR**

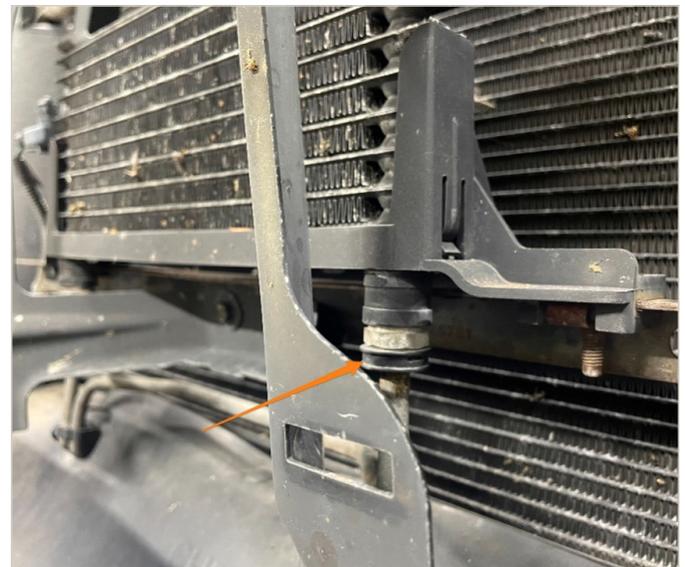
**INSTALL DIFFICULTY:** 

## NOTES

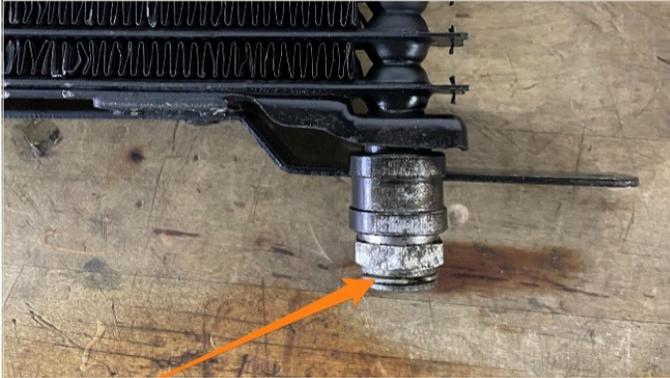
Limit exposure to transmission fluid to your skin and body. We suggest wearing personal protective equipment during installation such as gloves and safety glasses. This kit is designed to be a bolt-on installation for vehicles already equipped with a factory transmission cooler. If you do not have the factory transmission cooler, you may be able to purchase the transmission cooler lines from a vehicle with the transmission cooler and retrofit the Mishimoto cooler. These instructions are written assuming the vehicle has a factory transmission cooler.

## INSTALLATION INSTRUCTIONS

1. Make sure that the vehicle is cool before starting installation. Hot transmission fluid can burn and cause other bodily harm.
2. Remove the radiator support panel above the grill and radiator.
3. Remove the grille assembly to expose the factory transmission cooler. On the GMT 800 vehicle, there are 1x 10mm bolt and 4x quarter turn clips in addition to 1x clip in each corner at the front fenders. On the GMT 900 chassis, there are 3x 10mm bolts at the top of the grille and then several clips behind the grille that require needle nose pliers to squeeze the back of the clip and then pull forward on the grille to remove.
4. Spray the transmission cooler fittings with penetrating fluid to help loosen up the hard lines to lessen the chance of damage during removal.
5. Use a pick tool to remove the plastic clips over the transmission cooler fittings. Then remove the wire clip that secures the transmission lines into the cooler. Be careful removing the clip as sometimes it will pop out and be hard to locate. The Mishimoto transmission cooler comes with new fittings with new clips in case the clips are missing or damaged.

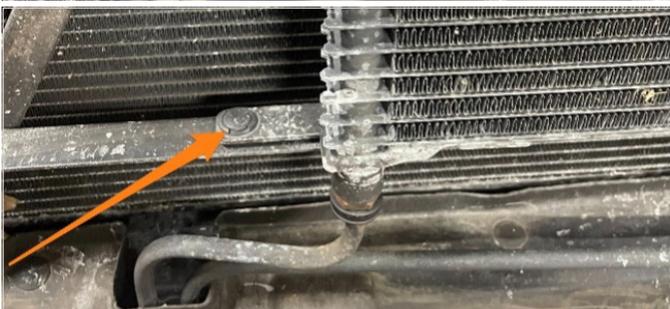


Continued on next page

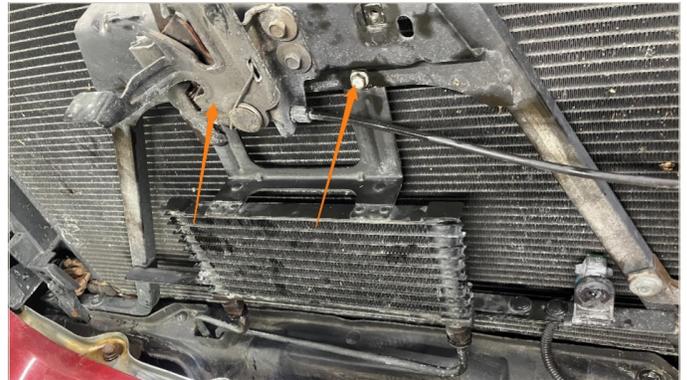


**6.** Place a bucket or absorbent mat under the transmission cooler to catch any fluid that comes out of the cooler upon line removal. Pull down carefully on the transmission lines to remove them from the cooler. It may be helpful to wiggle the transmission line both up and down and try to rotate it in the fitting to break it loose. Be careful not to bend or break any of the lines in the process. If the line is too hard to remove, respray with penetrating fluid and wait 10–15 minutes for it to soak. Once one line is removed, repeat for the other line.

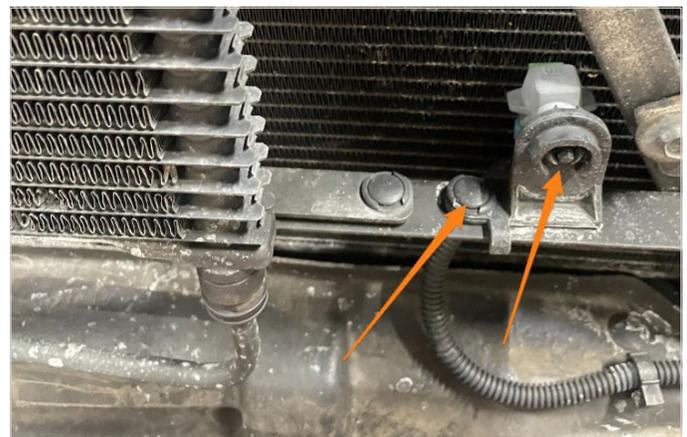
**7.** For the GMT-800 chassis, remove the 2x push clips that secure the transmission cooler to the horizontal bar on the A-shaped bracket. On the GMT-900 chassis, these will be 10mm bolts.



**8.** Remove the 2x 10mm bolts securing the upper transmission cooler bracket to the A-shaped bracket on the vehicle and remove the transmission cooler from the vehicle.



**9.** Remove the ambient air temperature sensor from the vehicle. On the GMT-800 chassis, remove the 1x push clip holding the temperature sensor to the A-shaped frame. Then squeeze the clips in the front of the sensor to remove the sensor from the bracket. On the GMT-900 chassis remove the sensor clip from the passenger side of the A-shaped bracket.



Continued on next page

**10.** Using the longer supplied 16mm long M6 bolts, bolt the black bracket to the A-shaped bracket on the vehicle. Leave the bolts loose for now to allow for easy installation in later steps. The bracket should be behind the A-shaped bracket on the vehicle.



**11.** Install the Mishimoto transmission cooler into the vehicle using the supplied 2x 12mm long M6 bolts to secure the upper bracket to the 2x threaded bosses on the top of the transmission cooler. Leave the bolts loose for now to allow further adjustment. Make sure that the lower brackets are sitting on top of the horizontal bar (refer to step 12 for visual).



**12.** Take the remaining 2x 12mm long M6 bolts and thread them through the lower brackets and the horizontal bar on the A-shaped bracket. This may be difficult to get the bolts lined up without dropping them. Put a small piece of painter's tape on the top of the bolt and then put the bolt in a 10mm socket to allow the socket to hold the bolt temporarily in place. Then, use the socket and extension to get the bolt through the correct hole. Thread the included M6 locknuts onto the bolts from the bottom.



**13.** Install the transmission lines into the fittings at the bottom of the transmission cooler. You should hear an audible click as they are secured into place. It may be helpful to pre-lubricate the end of the lines with clean transmission fluid to allow for easy installation



**14.** With a 10mm socket and wrench, secure all 6 bolts and 2 nuts that secure the cooler to the vehicle. Pay special attention to make sure that the transmission cooler is adjusted so that the cooler is not touching the A-shaped bracket. Many of the holes on the cooler are slotted to allow trouble-free adjustment.

Continued on next page

**15.** On the GMT-800, snap the temperature sensor into the lower driver's side bracket from the back side. If the clips are broken on the temperature sensor, use the holes in the bracket and zip ties to secure the sensor to the bracket. On the GMT-900, use the passenger-side bracket to attach the temperature sensor clip to the bracket. Similar to the GMT-800, if the clip is broken, use zip-ties to secure the sensor to the bracket through the holes.



**16.** Turn on the vehicle and check for any leaks around the fittings and lines. If there are no leaks or issues, reinstall the grille and upper radiator panel. Let the vehicle reach full temperature and then top off the transmission fluid. The larger cooler and the loss of fluid during removal may require the addition of transmission fluid to reach the proper level on the dipstick.

**Congratulations! You have finished 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](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)