

# 2006-2010 CHEVROLET/ GMC 6.6L DURAMX (LBZ/LMM) TRANSMISSION COOLER PARTS LIST & INSTALLATION GUIDE



## PARTS INCLUDED

- 1PC** Mishimoto Stacked Plate Transmission Cooler
- 2PC** CNC-Machined Quick-Disconnect to Hose Barb Adapters
- 2PC** Stock-Style Quick-Disconnect Fittings
- 2PC** Transmission Hoses
- 2PC** Mounting Brackets
- 4PC** Worm Gear Clamps
- 1PC** Zip Tie
- Mounting Hardware

## TOOLS NEEDED

- 7mm Socket
- 10mm Socket
- 10mm Wrench
- 27mm Wrench
- 1/4" Drive Ratchet
- Flathead Screwdriver
- Pick Tool

**INSTALL TIME** 1 Hour     

**INSTALL DIFFICULTY**

## DISCLAIMER

- 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.
- Mishimoto suggests that a trained professional install all Mishimoto products.

## INSTALL NOTE

This installation was performed on a 2006 model truck.  
Due to variations between models and years, your

vehicle's cooler orientation and installation may vary slightly from what is shown. Please refer to the diagrams at the end of this guide for details regarding line routing and mounting as they pertain to specific vehicle models.

## INSTALL PROCEDURE

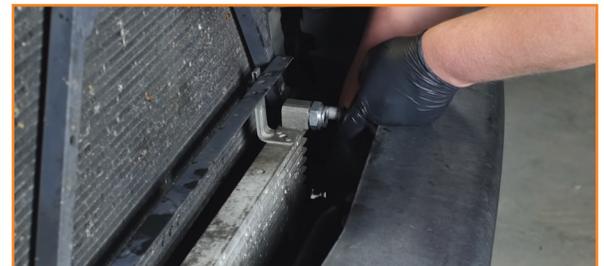
1. Remove the radiator cover. (7x pop-clips)



2. Pull back the edges on both sides of the grille. This will release the tabs holding the grille. Once the tabs are free, remove the grille.



3. Separate the clip covers from the transmission cooler line fittings.



4. Disconnect the cooler lines from the transmission cooler. Use a pick tool to slip off the clips that secure these lines. (2x ring clips)

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# 2006-2010 CHEVROLET/ GMC 6.6L DURAMX (LBZ/LMM) TRANSMISSION COOLER INSTALLATION GUIDE



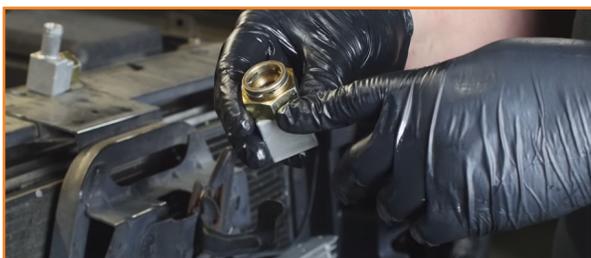
5. Undo the bolts that secure the top brackets of your transmission cooler. Then remove the transmission cooler. Lift and lean the bottom of the cooler forward to be able to clear the nearby brace. (2x 10mm bolts)
6. Install your Mishimoto transmission cooler. The bottom supports of the cooler will go around the lower portion of the brace and the upper supports will align with the two open holes at the middle of the brace.



7. Secure the upper supports first. (2x 10mm bolts)
8. Secure the brackets on the bottom of the transmission cooler. (2x 10mm bolts, 2x 10mm nuts)



9. Assemble the fittings to the Mishimoto adapters.



10. Attach the adapters to the transmission cooler line. You will hear an audible click when the fittings are set. Then slide the clip covers over the connection. (2x ring clips)



11. Install the provided hoses to the transmission cooler ports. Then attach the cooler lines to the hoses you just installed. (4x worm gear clamps)



12. Reinstall the front grille. Engage the taps at the sides.
13. Reinstall the radiator cover. (7x pop-clips)
14. Add approximately one quart of transmission fluid in addition to the amount of fluid lost during the install process.

**Congratulations! You have finished installing the Mishimoto 2006-2010 Chevrolet/GMC 6.6L Duramax (LBZ/LMM) Transmission Cooler.**

*Diagrams for additional applications found on the next page:*

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# 02

# 2006-2010 CHEVROLET / GMC 6.6L DURAMX (LBZ/LMM) TRANSMISSION COOLER INSTALLATION GUIDE



**MISHIMOTO 2006-2010 CHEVROLET/ GMC (LBZ/LMM) 6.6L DURAMX TRANSMISSION COOLER HOSE ROUTING**

PART NUMBER	DESCRIPTION	QUANTITY
MM5142-01	COOLER	1
MM5142-05	ADAPTER 1	2
MM4242-20	HOSES	2
MM1406-08	ADAPTER 2	2

**MISHIMOTO 2011-2014 CHEVROLET/ GMC (LML) 6.6L DURAMX TRANSMISSION COOLER HOSE ROUTING**

PART NUMBER	DESCRIPTION	QUANTITY
MM5142-01	COOLER	1
MM5142-05	ADAPTER 1	2
MM2292	BRACKETS	2
MM4242-22	HOSES	2
MM1406-04	ADAPTER 2	2

**MISHIMOTO 2003-2005 CHEVROLET/ GMC (LB7/LLY) 6.6L DURAMX TRANSMISSION COOLER HOSE ROUTING**

PART NUMBER	DESCRIPTION	QUANTITY
MM5142-01	COOLER	1
MM5142-05	ADAPTER 1	2
MM2291	BRACKETS	2
MM4242-21	HOSES	2
MM1406-04	ADAPTER 2	2

**MISHIMOTO 2001-2003 CHEVROLET/ GMC (LB7) 6.6L DURAMX TRANSMISSION COOLER HOSE ROUTING**

PART NUMBER	DESCRIPTION	QUANTITY
MM5142-01	COOLER	1
MM5142-05	ADAPTER 1	2
MM2291	BRACKETS	2
MM4242-21	HOSES	2
MM1406-08	ADAPTER 2	2