

# 1994–2002 5.9L CUMMINS INTERCOOLER

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

**1 PC** | MISHIMOTO INTERCOOLER

**2 PC** | AC CONDENSER BRACKETS

MOUNTING HARDWARE

### TOOLS NEEDED

10MM SOCKET	1/2" DRIVE EXTENSION
11MM DEEP SOCKET	1/2" DRIVE UNIVERSAL SWIVEL
13MM SOCKET	1/2" DRIVE RATCHET
18MM DEEP SOCKET	HOSE PICK
1/4" DRIVE RATCHET	VICE GRIPS
3/8" DRIVE RATCHET	

**INSTALLATION TIME** 2-3 HOURS

**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.

**Caution:** If the vehicle was just turned off, the intake and outlet ducts may be hot. Allow these components to cool down before servicing them to avoid injury.

**Caution:** The front bumper and radiator are quite heavy. We recommend having someone help you when lifting these components.

### INSTALLATION INSTRUCTIONS

- 01.** Remove the two bolts that secure the radiator to the support beam. (2x 10mm bolts)



- 02.** Remove the eight nuts and bolts that secure the front bumper to the vehicle, and then remove the front bumper. Tip: Spray the bolts with penetrating lubricant prior to attempting removal, as they are often heavily rusted. The front bumper is heavy, so get a friend to help. (8x 18mm nuts and bolts)



- 03.** Remove the seven bolts that secure the radiator support beam to the vehicle. There are three bolts on either side of the support beam, and one on the back of the beam just behind the hood latch. Lift the support beam off the vehicle and move it out of the way, allowing it to hang on the hood-release cable. (7x 13mm bolts)



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- 04.** From inside the driver-side wheel well, loosen the T-bolt clamp that secures the cold-side intercooler pipe to the intercooler outlet. Then separate the intercooler coupler from the intercooler. (1x 11mm T-bolt clamp)



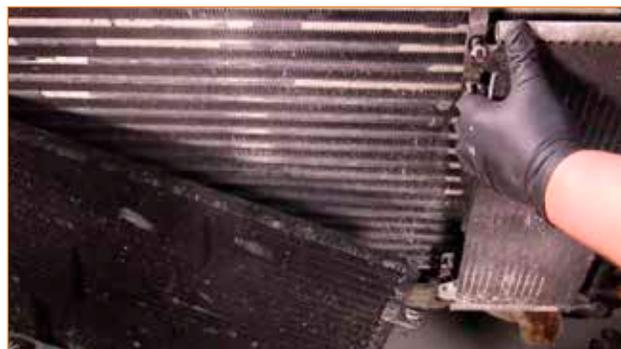
- 05.** From inside the passenger-side wheel well, loosen the T-bolt clamp that secures the hot-side intercooler pipe to the intercooler inlet. Then separate the intercooler coupler from the intercooler. (1x 11mm T-bolt clamp)



- 06.** To make room for the larger intercooler, you will need to bend the body panels near the intercooler inlet and outlet. Locate the body panels, then bend the front edges of these panels upward. Tip: A pair of vice grips makes this job easy.



- 07.** Remove the four nuts and three bolts that secure the AC condenser and transmission cooler to the vehicle. Separate the condenser and cooler from the vehicle, and allow them to hang by the lines. (4x 10mm nuts, 3x 10mm bolts)



- 08.** Remove the two bolts that secure the stock intercooler to the radiator support. Remove the intercooler from the vehicle, taking care not to damage the AC condenser or transmission cooler. (2x 10mm bolts)



- 09.** Transfer the bushings from the stock intercooler to the Mishimoto intercooler. (4x bushings)
- 10.** Install the Mishimoto intercooler, and secure it with the two original bolts. Tip: Have a friend lift up on the radiator while installing the intercooler. (2x 10mm bolts)

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11. Install the provided support brackets to the top and bottom of the intercooler core. Secure the brackets with the four provided bolts. Note: Use the shorter bolts for this step. (4x short 10mm bolts)



12. Attach the transmission cooler to the driver-side end tank of the intercooler with the supplied bolt, but do not fully tighten it yet. (1x 10mm bolt)
13. Attach the transmission cooler to the support brackets using the supplied nuts and bolts. Note: Use the longer bolts for this step. (2x long 10mm bolts, 2x nuts)
14. Attach the AC condenser to the intercooler end tank using the two supplied bolts. Note: Use the shorter bolts for this step. (2x 10mm short bolts)

15. Secure the AC condenser to the support brackets using the two supplied nuts and bolts. Note: Use the longer bolts for this step. (2x long 10mm bolts, 2x 10mm nuts)
16. Install the radiator support beam, and secure it with the seven original bolts. (7x 13mm bolts)
17. Install the two bolts that secure the radiator to the vehicle. (2x 10mm bolts)
18. Attach the intercooler couplers to the intercooler inlet and outlet. Then secure both couplers with the original T-bolt clamps. (2x 11mm T-bolt clamps)
19. Reinstall the front bumper, and secure it with the original hardware. Tip: The front bumper is heavy, so get a friend to help. (8x 18mm nuts and bolts)

**Congrats! You just finished installing the 1994–2002 5.9L Cummins Intercooler.**

