

# 2007-2011 JEEP WRANGLER JK V6 TRANSMISSION COOLER KIT

## PARTS LIST AND INSTALLATION GUIDE

### PARTS LIST

- 1PC | MISHIMOTO 19-ROW OIL COOLER
- 3PC | MISHIMOTO APPLICATION-SPECIFIC BRACKETS
- 1PC | 6-FT BLACK RUBBER 3/8" TRANSMISSION LINE
- 2PC | 45° -10AN TO 3/8" BARBED PUSH-ON FITTINGS
- 2PC | 90° BRASS BARBED PUSH-ON FITTINGS
- 6PC | WORM-GEAR CLAMPS
- 1PC | MISHIMOTO MOUNTING HARDWARE SET

### TOOLS NEEDED

- |                     |                           |
|---------------------|---------------------------|
| 10MM WRENCH         | FLATHEAD SCREWDRIVER      |
| 1/4" DRIVE RATCHET  | PHILLIPS HEAD SCREWDRIVER |
| RATCHET EXTENSION   | POP-CLIP PLIERS           |
| UNIVERSAL EXTENSION | OIL                       |
| 10MM SOCKET         | FUNNEL                    |

### DISCLAIMER

- Please dispose of any liquids properly.
- Allow vehicle to cool completely prior to attempting installation.
- Mishimoto Performance (MP) is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of MP products.
- MP always suggests that a trained professional install all MP products.
- Do not run the engine or drive the vehicle while overheating. Serious damage may occur.
- Raise vehicle only on jack stands or on a vehicle lift.

## INSTALLATION INSTRUCTIONS

### 01 | REMOVING THE OEM RADIATOR

1. Disconnect the negative battery terminal.
2. Unplug the air sensor.
3. Loosen the clamp on the intake hose and remove the hose from the engine bay.
4. Disconnect the PCV hose from the airbox.
5. Remove the airbox from the Jeep.
6. Remove the four pop clips that hold the upper radiator shroud to the radiator.
7. Unplug the turn signals.

8. Remove the six screw-type clips from the top of the grille.
9. Remove the grille. Put a bit of pressure on the bottom of the grille to unclip it from the Jeep.



10. Remove the four pop clips from the side radiator flaps.
11. Disconnect the wire harness from the upper radiator support.
12. Disconnect the ambient temperature sensor by removing one pop clip.

### 02 | PREPARING THE MISHIMOTO TRANSMISSION COOLER FOR INSTALLATION

1. Install the bottom brackets to the oil cooler using the supplied Mishimoto hardware.
2. Install the L-shaped bracket to the cooler using the supplied Mishimoto hardware.

### 03 | INSTALLING THE MISHIMOTO TRANSMISSION COOLER

1. Install the Mishimoto transmission cooler using five 10mm bolts and one pop clip.
2. Relocate the ambient temperature sensor to the bottom of the lower radiator support.



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# 01

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3. Cut the upper transmission cooler line.



4. Cut the provided Mishimoto transmission cooler line in half.

5. Lubricate and install the transmission cooler fittings onto the Mishimoto lines.

6. Tighten down the clamps holding the cooler line fittings in place.



7. Feed the transmission lines into the engine bay and install the fittings into the factory transmission cooler line.

8. Tighten down the clamps that hold the cooler line fittings to the factory line.

9. Install the transmission cooler adapter fittings to the cooler.



10. Measure and trim the Mishimoto transmission cooler lines.

11. Tighten the metal fitting adaptors that screw onto the transmission cooler and attach to the transmission lines.

12. Reinstall the air-intake box assembly.

13. Tighten the clamp that holds the intake tube to the throttle body.

14. Reconnect the mass-airflow sensor. Be sure to depress the red tab, which is a safety measure to prevent the sensor from becoming unplugged.

15. Reinstall the front grille using six screw-type clips.



16. Reinstall the turn signals.

17. Reinstall the upper radiator shroud using four pop clips.



18. Reinstall the negative battery terminal

19. Add approximately one quart of Jeep-specific transmission fluid to the system. Remember to check the transmission fluid level while the Jeep is running.

20. You have now successfully installed the Mishimoto Jeep Wrangler JK Transmission Cooler. Enjoy!