

PARTS INCLUDED

- 1PC** Mishimoto Radiator
- 1PC** Magnetic Drain Plug
- 1PC** Mounting Hardware

TOOLS NEEDED

- 7mm Socket
- 8mm Socket
- 10mm Socket
- 1/4" Drive Ratchet & Extension
- Spring Clamp Removal Tool
- Pop-Clip Removal Tool
- Flathead Screwdriver
- Pliers
- Zip Ties
- Scissors

INSTALL TIME 1.5 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.

INSTALL PROCEDURE

1. Drain the coolant from your radiator. The drain plug is located on the passenger side of the radiator, at the bottom.



2. There are six clips that secure the top of the grille to the support bar. Pull these clips out to free the grille's upper edge. (6x pop-clips)



3. Disconnect the electrical harness located on the bottom of each side of the grille. To disconnect this harness, lift the red tab and then depress the black tab at the center.



4. Release the tabs on the bottom of the grille. Use a flat head screwdriver to push down on the tabs and release them. There is a total of six tabs.

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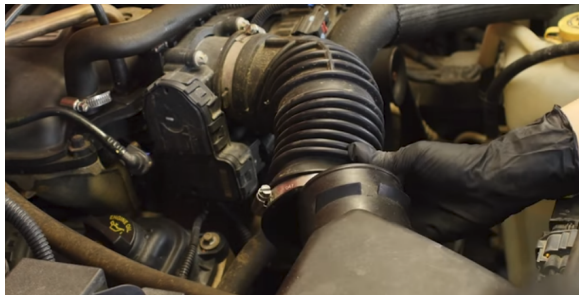
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5. Remove the clips that secure the radiator cover, and then lift the cover to reveal the radiator. (4x tree-clips)
6. Remove the clips that secures the shrouding to the bottom of the fan shroud. (3x tree-clips)



7. Loosen the clamp on the intake tube and airbox connection. (1x worm gear clamp)



8. Lift the tabs on the airbox lid to free it from the airbox.
9. Compress the clamp on the upper radiator hose and slide it down the hose. Then pull the hose off the radiator port. (1x spring clamp)



10. Compress the clamp on the lower radiator hose and slide it down the hose. Then pull the hose off the radiator port. (1x spring clamp)



11. Disconnect the fan shroud's electrical harness. Depress the grey tab at the center to release the connection. Then pull the clip that holds the wiring out of the bracket on the fan shroud. (1x tree-clip)



12. Compress the clamp that secures a small hole to the port on the overflow tank, and slide the clamp down the hose. Then pull the hose off the port. (1x spring clip)



13. Remove the overflow tank. Be careful not to spill any coolant during this step.

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14. Remove the bolts securing each side of the radiator. These bolts are accessed from the back of the radiator. (2x 10mm bolts)



15. Remove the bolts that secure the AC condenser. Separate the wiring from the upper support bar to get better access to the bolt at the top on the passenger side. (1x tree-clip, 4x 8mm bolts)



16. Using zip ties, secure the AC condenser to the support bar.
17. Lift the radiator and fan shroud up and out of the engine bay.
18. Separate the fan shroud from the stock radiator. (2x 8mm bolts)
19. Install the fan shroud to the Mishimoto radiator. (2x 10mm bolts)



20. Transfer the overflow hose from the stock radiator to the Mishimoto radiator. (1x worm gear clamp, or 1x spring clamp)



21. Transfer the rubber bushings on the stock radiator to the Mishimoto radiator's brackets.



22. Lower the Mishimoto radiator into place. Be sure to engage the bushings on the bottom brackets.
23. Secure the top of the radiator with the two original bolts you removed earlier. (2x 10mm bolts)
24. Cut the AC condenser free from the zip ties. Align it with the radiator and then secure it with the provided hardware. (4x 10mm bolts)
25. Reattach the wiring to the support bar. (1x tree-clip)
26. Reconnect the electrical harness on the fan shroud.
27. Slide the upper radiator hose onto the radiator port. Secure the connection with the same clamp from before. (1x spring clamp)
28. Slide the lower radiator hose onto the radiator

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- port. Secure the connection with the same clamp from before. (1x spring clamp)
29. Reinstall the overflow tank and reconnect the hose to the port. (1x spring clamp)
 30. Reinstall the airbox, along with the filter and lid. Then reconnect the air intake tube.
 31. Attach the fan shroud wiring to the radiator bracket. (1x tree-clip)
 32. Tighten the clamp on the air intake tube and airbox connection. (1x worm gear clamp)
 33. Reinstall the radiator cover. (4x tree-clips)
 34. Reinstall the shrouding at the bottom of the fan shroud. (3x tree-clips)
 35. Lift the grille back into position and reconnect the electrical harnesses on each end. Engage the tabs at the bottom of the grille to push it back on to your Jeep.
 36. Secure the upper edge of the grille. (6x pop-clips)

Fill the cooling system with premixed, Jeep-approved coolant, start the engine, and allow it to idle with the cap off. Turn the heater control valve on the vehicle's HVAC unit to full hot, and put the fan on low. Monitor the engine temperature and coolant level in the reservoir. Add coolant as needed to maintain proper level in the reservoir, and check your connections for leaks. If the vehicle begins to overheat or coolant starts to overflow from the reservoir, shut off the engine and allow it to cool before continuing. Once the vehicle is fully warmed up and the coolant level has stabilized, allow the vehicle to cool off completely, and then top off the coolant level. Coolant level should be checked once more after putting in some miles.

Congratulations! You have finished installing the Mishimoto 2007-2017 Jeep Wrangler JK Performance Aluminum Radiator.