

## PARTS INCLUDED

- 1PC** Application-Specific Mounting Bracket
- 1PC** Silver, Anodized 6061 Aluminum Filter Mount
- 1PC** Coolant Filter
- 1PC** Silicone Hose
- 2PC** Brass Ball Valves
- 4PC** Worm Gear Clamps

## TOOLS NEEDED

- 7mm Socket
- 8mm Socket
- 15mm Socket
- 15mm Wrench
- 20mm Wrench
- 5mm Allen Key
- 1/4" Drive Ratchet
- 3/8" Drive Ratchet & Extension
- Pliers
- Hose Cutter

**INSTALL TIME** 40 Minutes

**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. Remove the engine cover.

2. Remove the bolts that secure the intake tube. (2x 10mm bolts)



3. Loosen the clamps on each end of the intake tube. (2x worm gear clamps)



4. Disconnect the air temp sensor.



5. Release the hose connected to the intake tube.
6. Remove the intake tube.
7. Unclip the airbox lid and remove the filter.



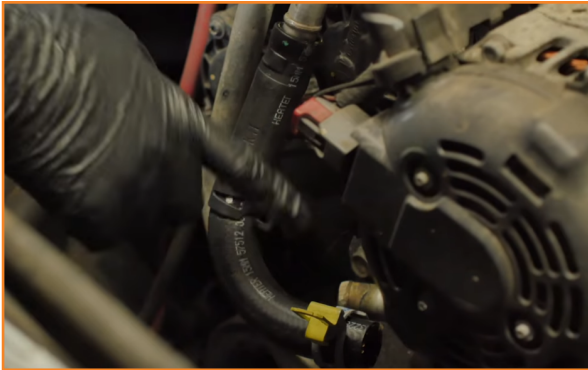
CONTINUED ON FOLLOWING PAGE

**01**

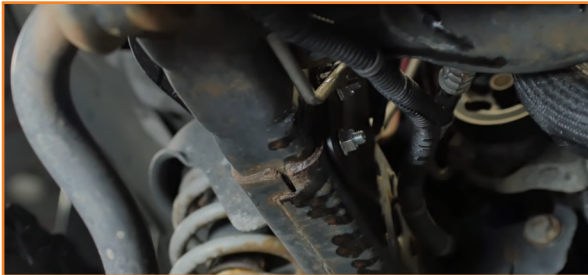
# 2012-2018 JEEP WRANGLER JK COOLANT FILTER KIT INSTALLATION GUIDE



8. Lift the bottom half of the airbox out of the engine bay.
9. Identify the short rubber hose with a 90° bend that connects the two metal coolant tubes next to the alternator. Once found, slide the clamps off the connections and remove the hose. (2x spring clamps)



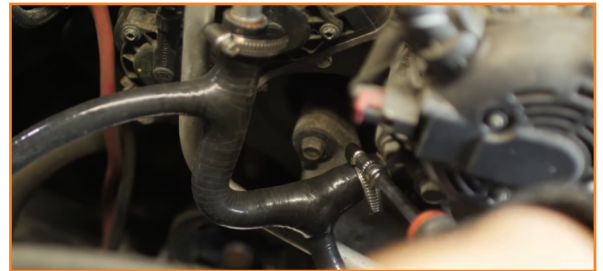
10. Install the filter bracket to the passenger-side frame rail. (2x 15mm bolts, 2x 15mm nuts)



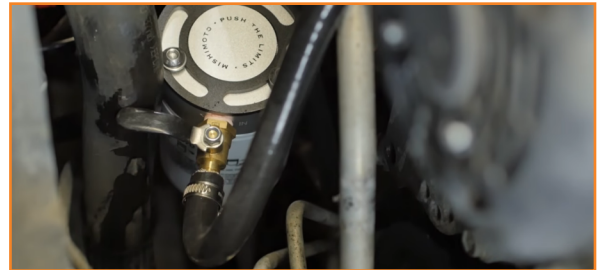
11. Wrap the ball valves for your filter with Teflon tape. Install the valves to the filter and snug them down using a 20mm wrench.
12. Install the filter to the bracket. Be sure to orient the filter head so the valves are pointed away from anything that could come in contact with them. We allow for flexibility with the slotted bracket and extended hoses. (3x 5mm Allen bolts, 3x washers)



13. Connect the elbow ends of the silicone hose to the metal coolant lines. These connections replace the stock rubber hose removed earlier. (2x worm gear clamps)



14. Align the inlet hose (on the lower right side) with the coolant filter inlet valve. Cut the excess hose and use provided zip ties to secure the hose if needed. Connect the hose to the valve.

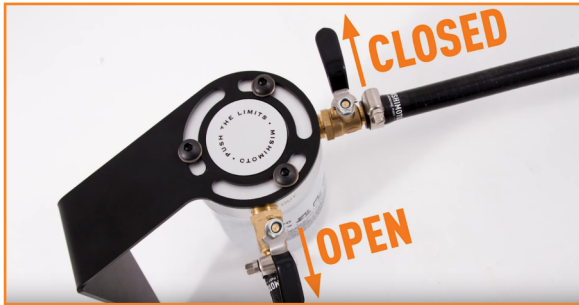


15. Align the outlet hose with the coolant filter outlet valve. Cut the excess hose and use provided zip ties to secure the hose if needed. Connect the hose to the valve. (1x worm gear clamp)

CONTINUED ON FOLLOWING PAGE

# 02

16. Ensure that both valves on the filter are set in the open position. Shown below is a graphic meant only to illustrate both the closed and open positions. Both valves need to resemble the setup labeled OPEN in the lower portion of the graphic, which has the lever running parallel with the valve.



17. Reinstall the airbox.
18. Reinstall the intake tube.  
(2x worm gear clamps, 2x 10mm bolts)
19. Reconnect the air temp sensor.
20. Reinstall the engine cover. Refill coolant to the proper level.

**Congratulations! You have finished installing the Mishimoto 2012-2018 Jeep Wrangler JK Coolant Filter Kit.**