



# External Transmission Oil Cooler Kit

## Suitable for:



**Jeep Wrangler JK  
4 Speed 42RLE & 5 Speed NAG1  
Automatic Transmissions**

WITH THE FOLLOWING ENGINES:  
6cyl 3.8L Petrol, 6cyl 3.6L Petrol

Please read through all of the instructions carefully before proceeding. If any of the information does not appear correct or the diagrams don't match your vehicle, please contact Wholesale Automatic Transmissions on +61 3 9762 8004.

## Safety First

Hot engines and hot transmissions can cause serious injury.  
Before removing the hoses and parts from the vehicle,  
allow sufficient time for engine and auto to cool.

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### Parts List



1 x 3/8" Oil Cooler  
Preinstalled in Bracket



2.5m x 3/8" Cooler  
Hose with Split Conduit



2 x 3/8" Brass Barb



1 x M6x20 Bolt



1 x Plate and Nutsert



2 x Self Drilling TEK  
Screws



6 x 14-16mm Hose  
Clamps

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Expected Installation Time: 2 Hours

## Summary of Installation - For Experienced Fitters

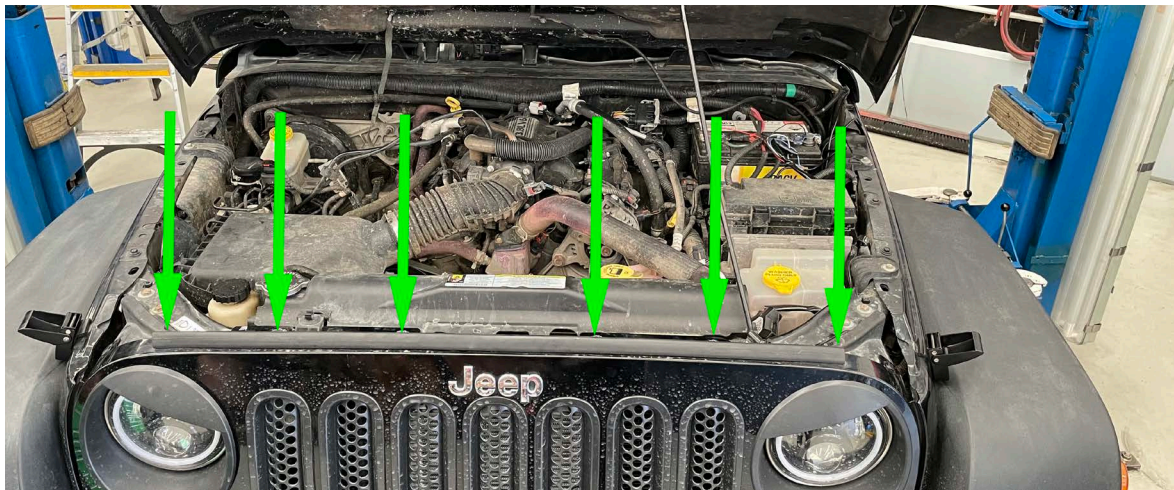
- Ensure you have enough transmission oil to top up your transmission.
- Remove 6 tabs along the top of the front grill
- Gently pull the base of the grill to release push clips
- Remove indicator wire plugs so front grill can be removed and placed out of the way
- Insert the oil cooler into position and feed hoses through to the bottom
- Use M6x20 bolt provided, insert the plate with nutsert behind to hold bolt in place
- Attach bracket using 2 x self tapping TEK screws provided
- Re-install the grill and reconnect fog lamps if fitted
- Locate the transmission hot line
- Cut the braided hose line in half
- Install a brass 3/8" barb into each end of the braided line
- Route the cooler hoses to the barbs barb, measure, cut and secure with hose clamps
- Refill the transmission fluid via the dipstick filler tube in engine bay
- Test drive and recheck fluid levels



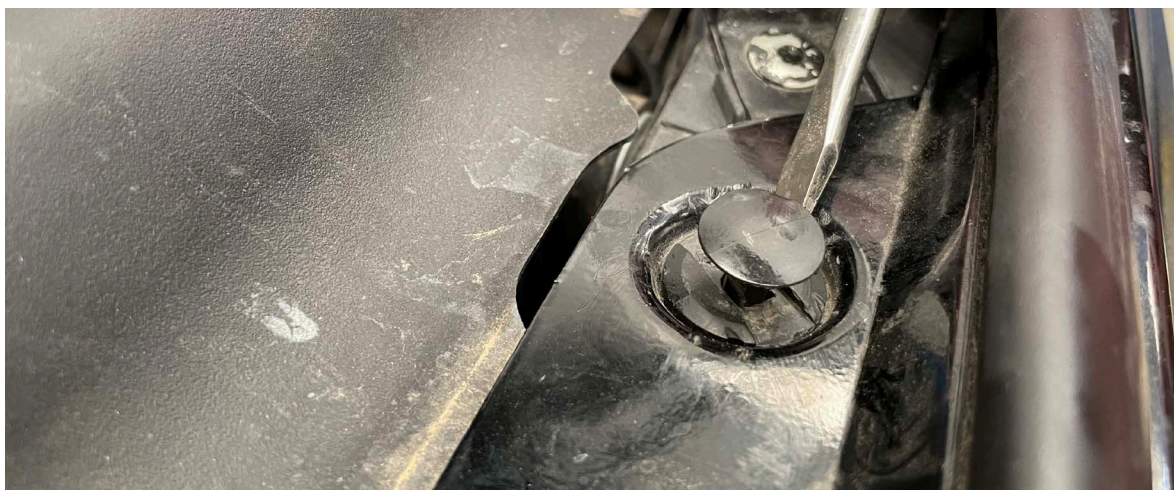
# 1. Detailed Installation Instructions

**Before commencing work, please ensure that you have at least 1L of transmission fluid to top up at the end of the job.**

- 1.1. Ensure the car is fully switched off. It is recommended that the vehicle is cold prior to installation.
- 1.2. Open bonnet and remove the 6 plastic clips holding the front grill.

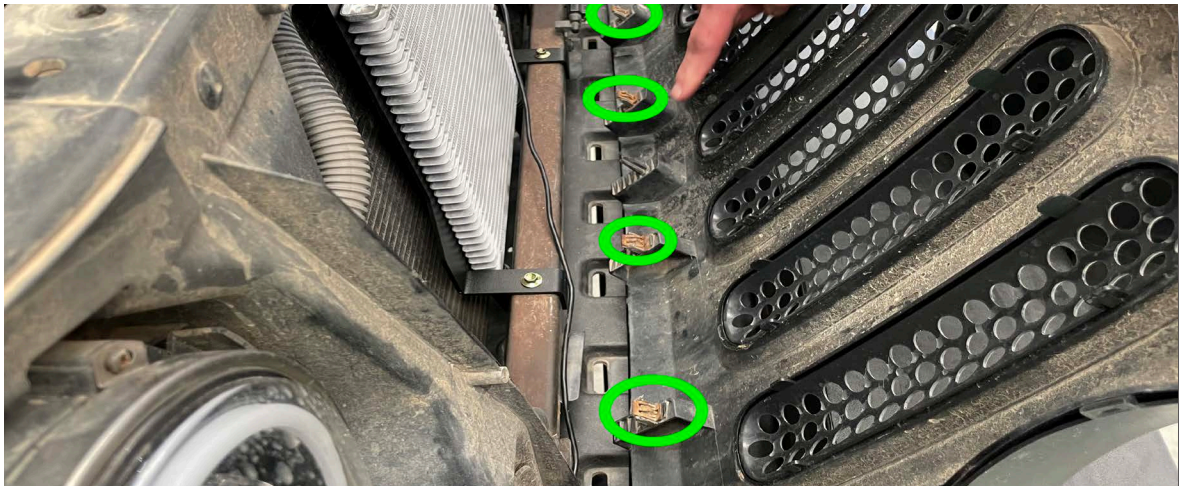
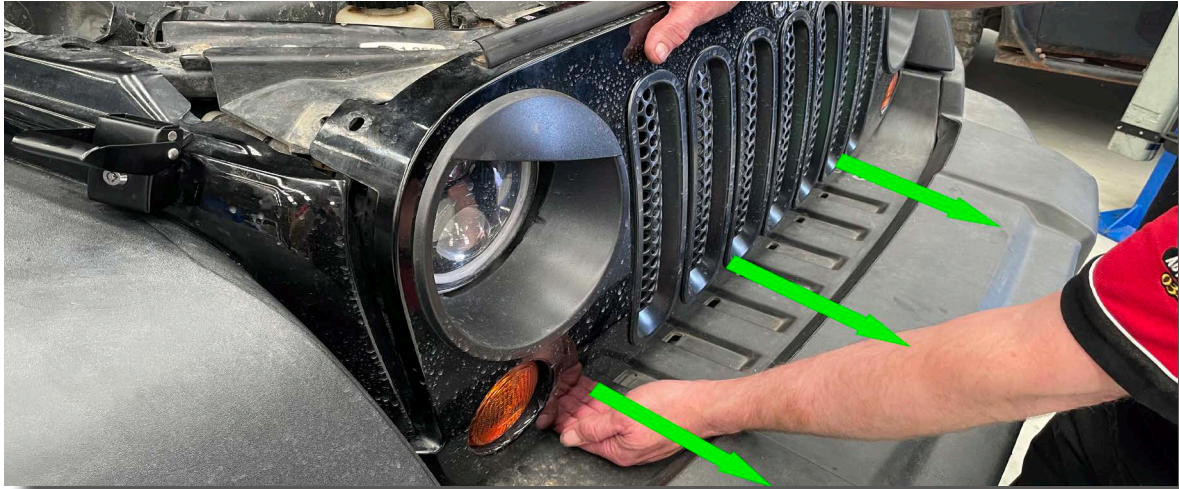


Use a small flat blade screwdriver or pick, lift the center of the plug before removing the rest of the plug.

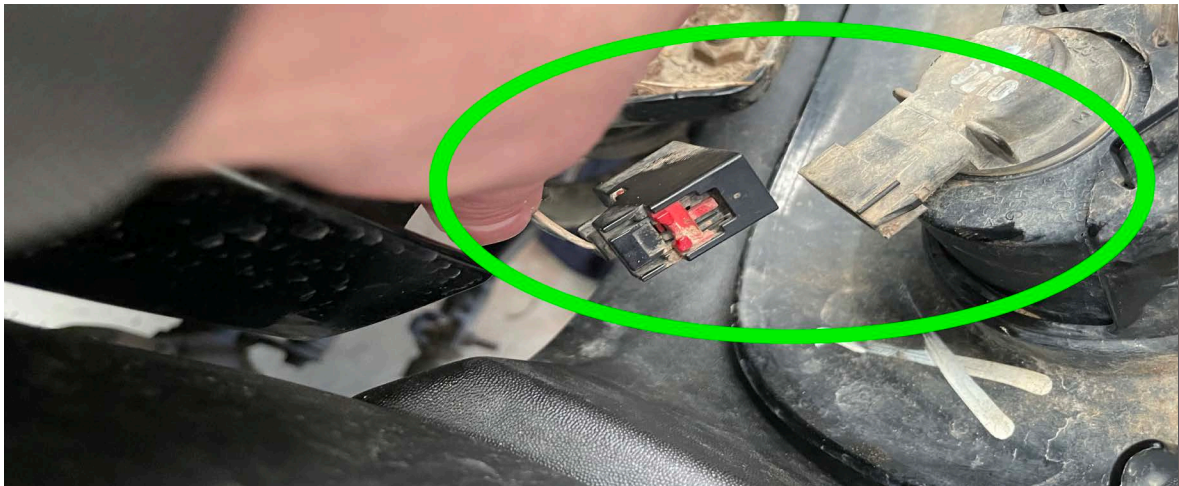




- 1.3. Gently pull on the grill from the bottom to release push clips, being careful to not break the clips.



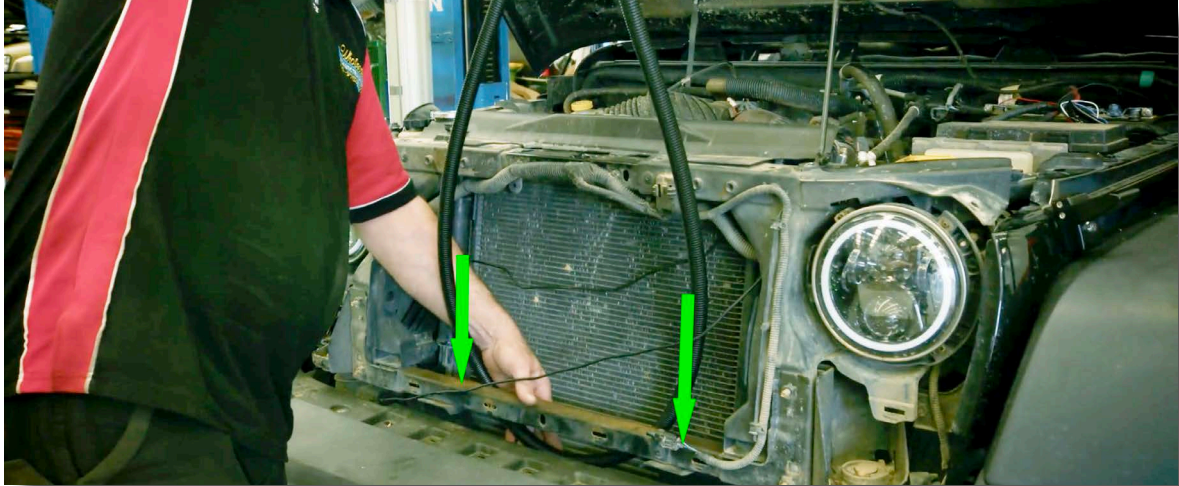
- 1.4. Remove the two indicator (turning signal) plugs so the grill can be removed and placed out of the way



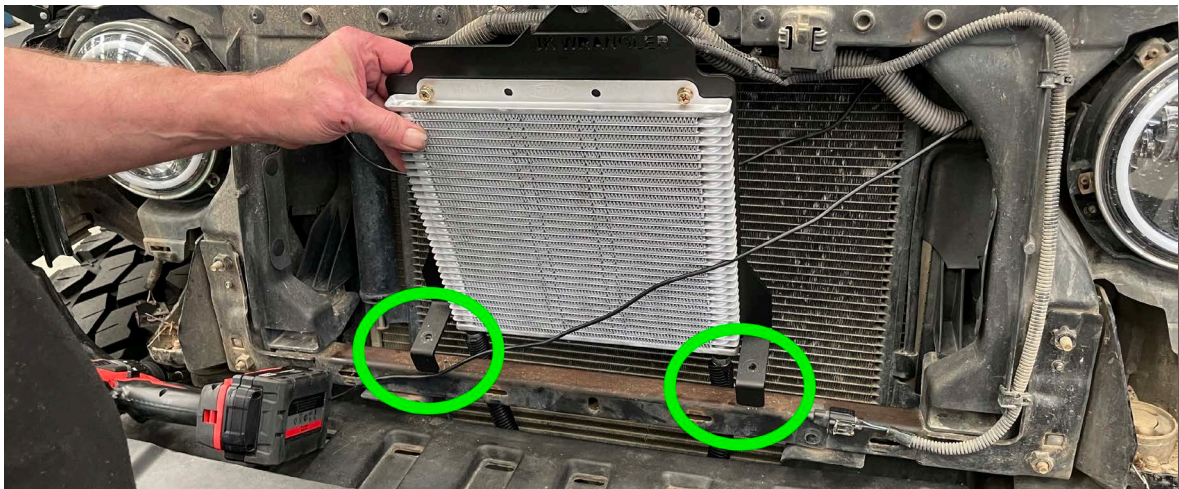


- 1.5. Insert the transmission oil cooler into place, feeding the hoses through to underneath the car.

Do not cut the hoses yet, this will be done in a later step.



- 1.6. Sit the cooler in place with the bracket sitting on the cross member.

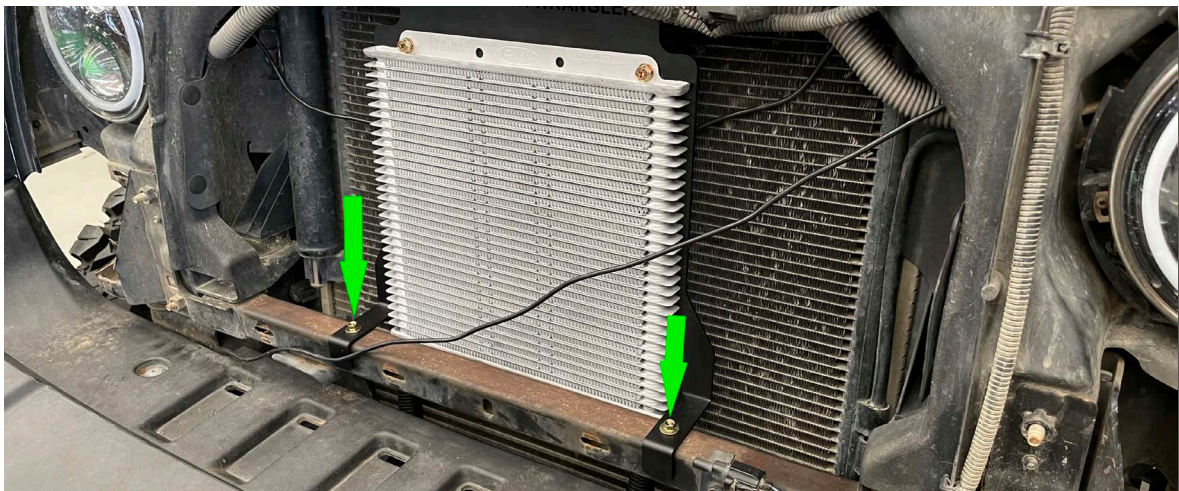




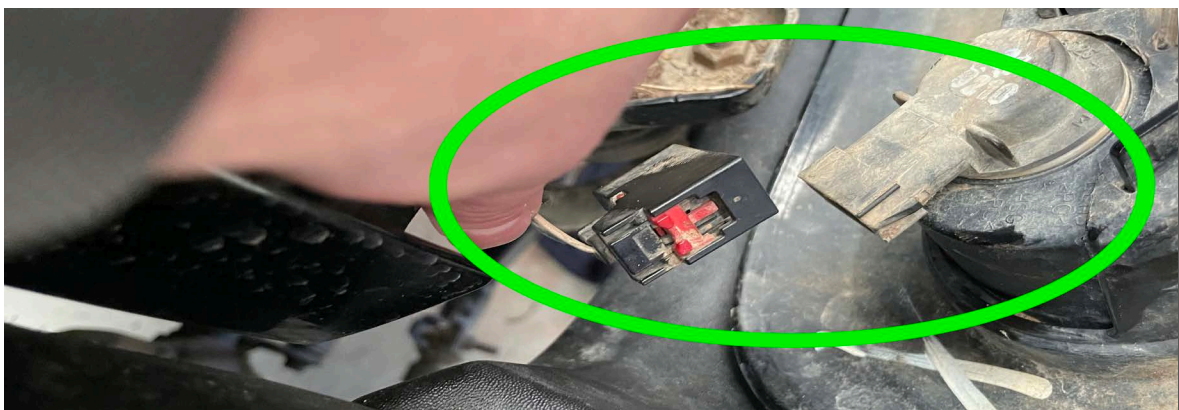
- 1.7. Use M6x20 bolt provided to mount the top bracket, insert the plate with nutsert behind to hold bolt in place



- 1.8. Use the 2 x self tapping TEK screws to secure the bottom of the bracket to the vehicle

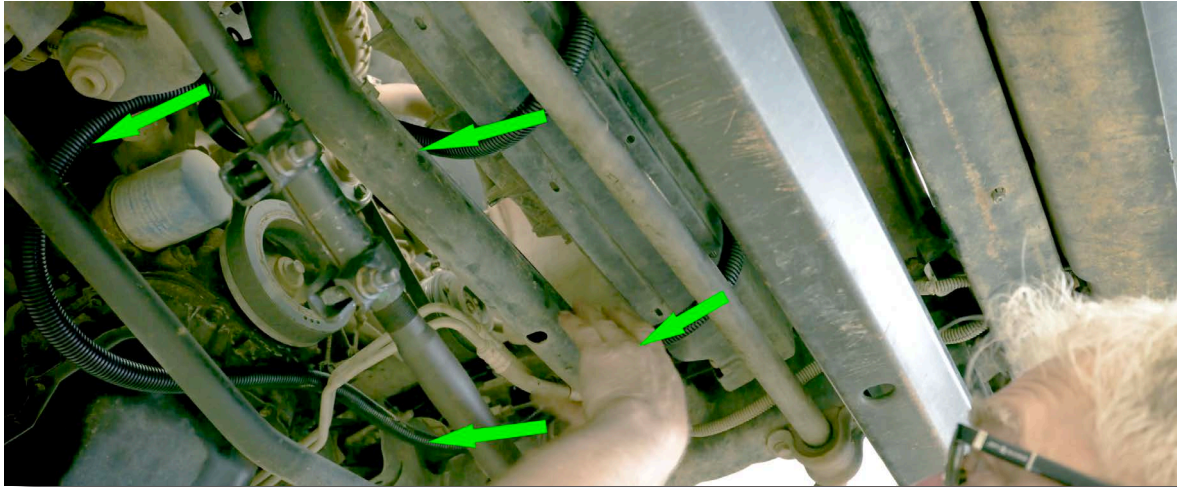


- 1.9. Re-install the front grill remembering to re-connect the indicator plugs

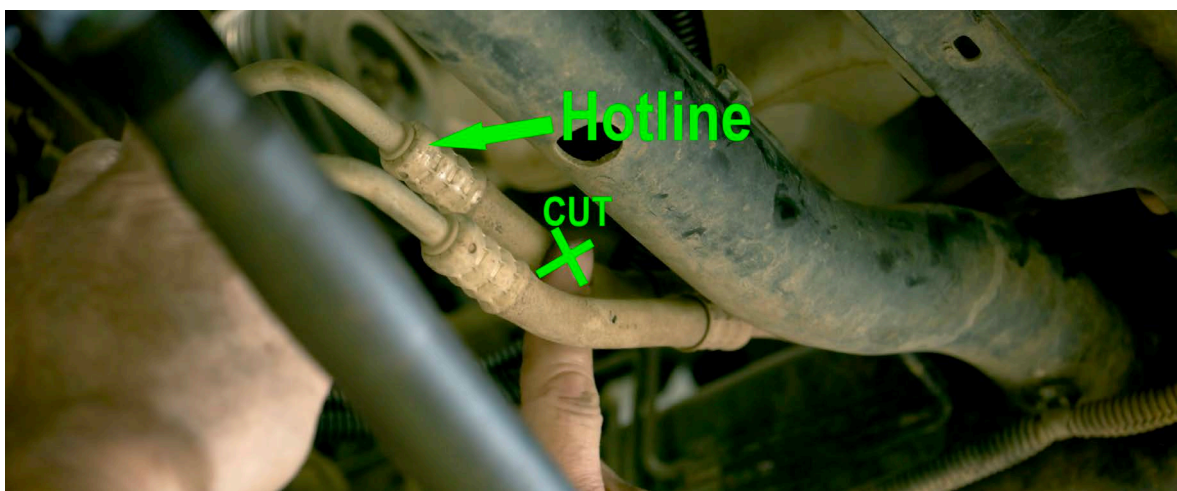




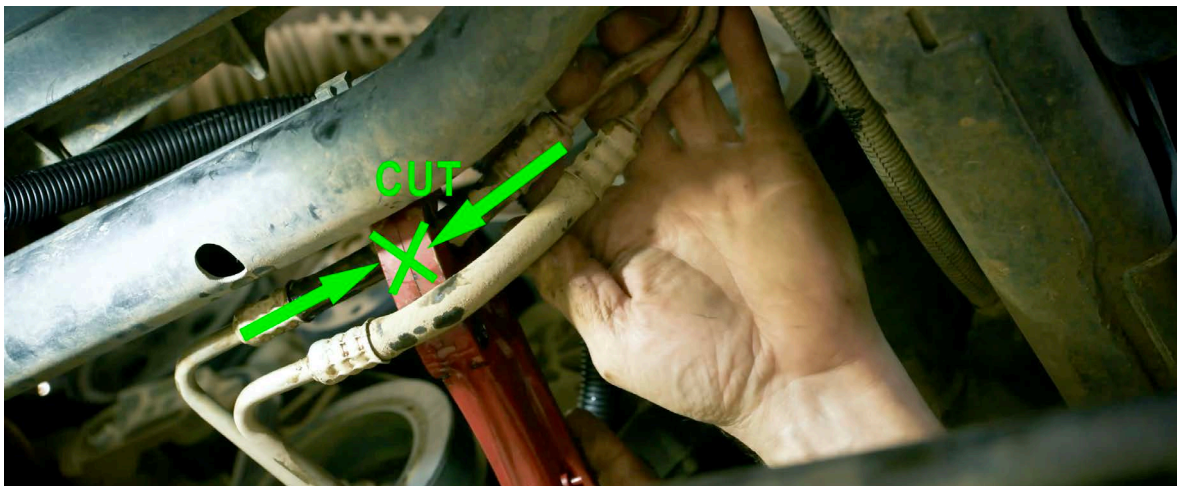
- 1.10. Moving under the vehicle, route the hose under the radiator and keep away from moving parts



- 1.11. Locate the transmission hot line (top line)

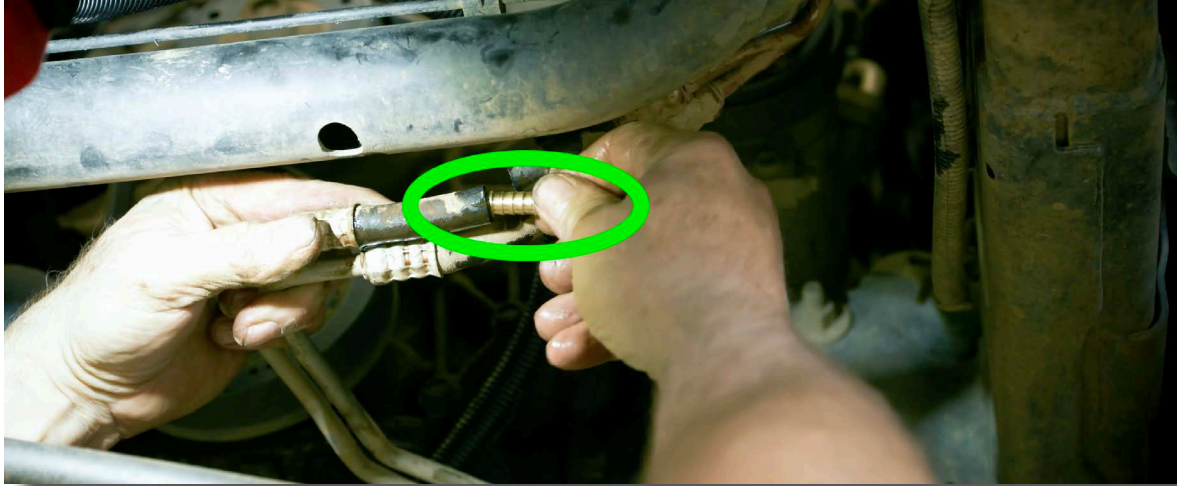


- 1.12. Cut the braided hose mid way along the braided line

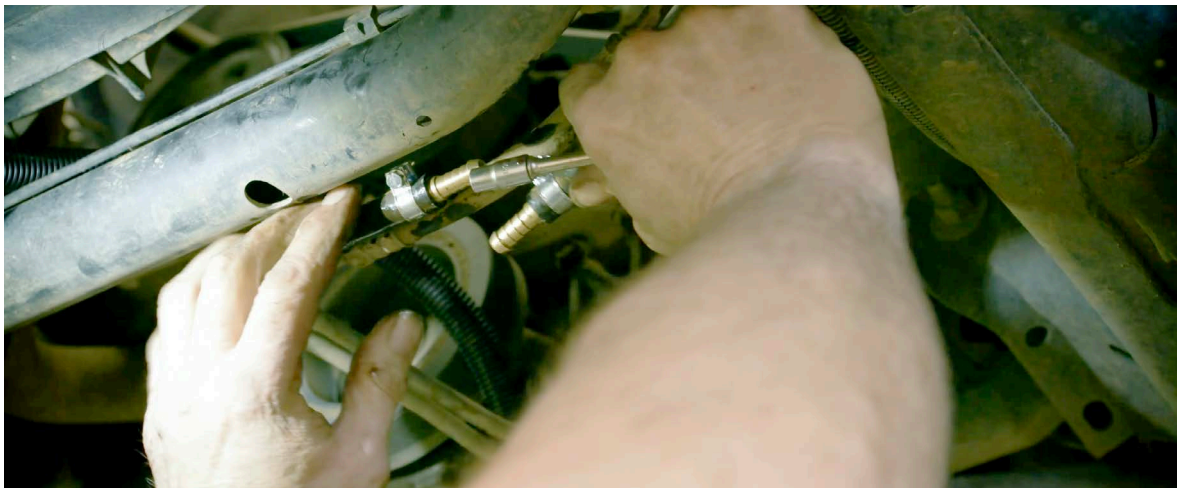




1.13. Insert a brass 3/8" barb into each end of the cut line.



1.14. Secure each of the barbs with the hose clamps provided in the kit

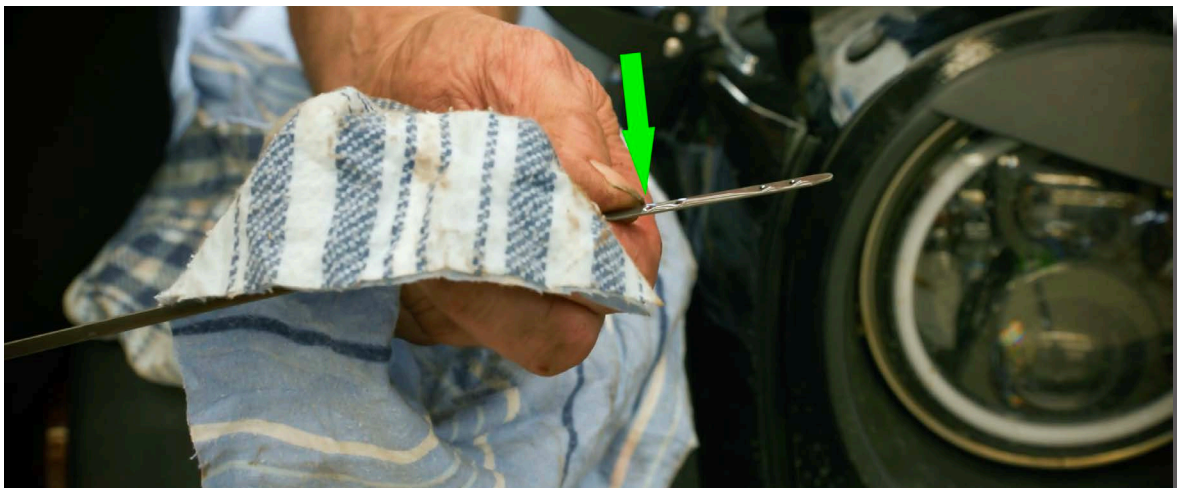


- 1.15. Route the transmission cooler hoses so they are away from moving parts, measure and cut then join to each of the barbs using hose clamps provided



**Note: It does not matter which hose is connected to which line, but ensure the hoses are free of any kinks that may restrict flow.**

- 1.16. Start the vehicle before checking the fluid level via the dipstick. Be sure to check both sides of the dipstick to ensure you are getting an accurate reading and not just excess fluid in the filler tube.
- 1.17. Top up the transmission oil to the “Hot” line, be patient and allow the oil to travel down the filler tube before checking



- 1.18. Take the vehicle for a test drive, running through each of the gears
- 1.19. Re-check transmission oil level.



## This completes the installation of the Oil Cooler Kit to suit: Jeep JK Wrangler

Please remember ALL automatic transmission have a service interval of 2 years or 40,000km to improve the longevity of the transmission.

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### Please Provide us with Feedback

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## Protect your Transmission

### Analogue Transmission Temperature Gauge

Don't wait until it's too late! A real-time readout Transmission Temperature Gauge, picking up the temperature of the oil at it's hottest point is the cheapest form of insurance you have against total transmission failure. If something was to go wrong with your transmission, most likely the temperature will be your first warning sign.



### Full Synthetic Transmission Fluid

Orto-Fluid Full Synthetic Automatic Transmission Fluid is a multipurpose replacement developed to cover a wide range of ATF specifications. Orto-Fluid is the perfect choice for the customer that wants high reliability and smooth gear changes while extending their service intervals to 2 years or 50,000kms.

### Deep Cast Transmission Pan

The cast aluminum transmission pan provides extra oil capacity for the transmission. The more oil the better the cooling – which lowers your risk of heat related damage to the transmission. This cast pan has the extra oil capacity to provide improved cooling and the more oil you have in circulation the longer your transmission oil will last before deterioration starts to occur, adding an extra 25% longevity to the oil.



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