

COOLMASTER *OFFROAD*

External Transmission Oil Cooler Kit Suitable for:



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

**WITH 6CYL 3.8L PETROL, 6CYL 3.6L PETROL &
4CYL 2.8L TURBO DIESEL ENGINES**

*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 your local ALLTRANZ branch.*

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.**

Parts List:



Cooler and Prefitted
Bracket



Cooler Hose



2 x 3/8 Gold Barb



1 x M6x20 Bolt



Plate and Nutsert



2 x Self Tapping Tek
Screws



4 x Hose Clamps

Expected Installation Time: ~ 2 Hours

Summary of Installation - For Experienced Fitters

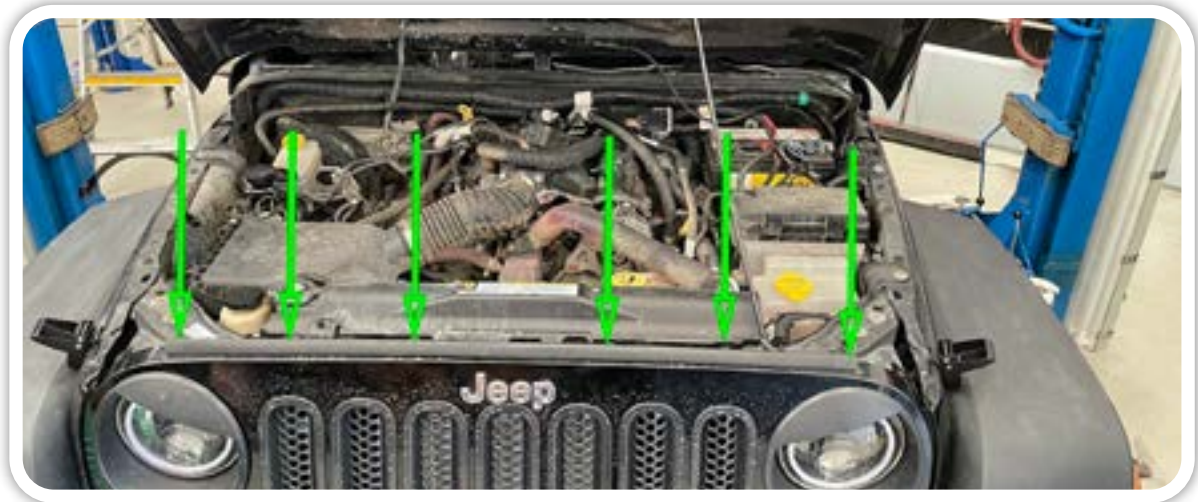
- *Ensure you have enough transmission oil to top up your transmission.*
- *Remove 6 tabs along the top of the front grill*
- *Gently pull the base of the grill to release push clips*
- *Remove indicator wire plugs so front grill can be removed and placed out of the way*
- *Insert the oil cooler into 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 hotline*
- *Cut the braided hose line in half*
- *Install a gold 3/8" barb into each end of the braided line*
- *Route hose to each 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*

Detailed Installation Instructions

Before Commencing work, please ensure that you have sufficient transmission fluid to top up at the end of the job.

Ensure the car is fully switched off. It is recommended that the vehicle is cold prior to installation.

- 1. 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.



2. Gently pull on the grill from the bottom to release push clips, be careful to not break the clips.



3. Remove the two Indicator (turning signal) plugs so the grill can be removed and placed out of the way

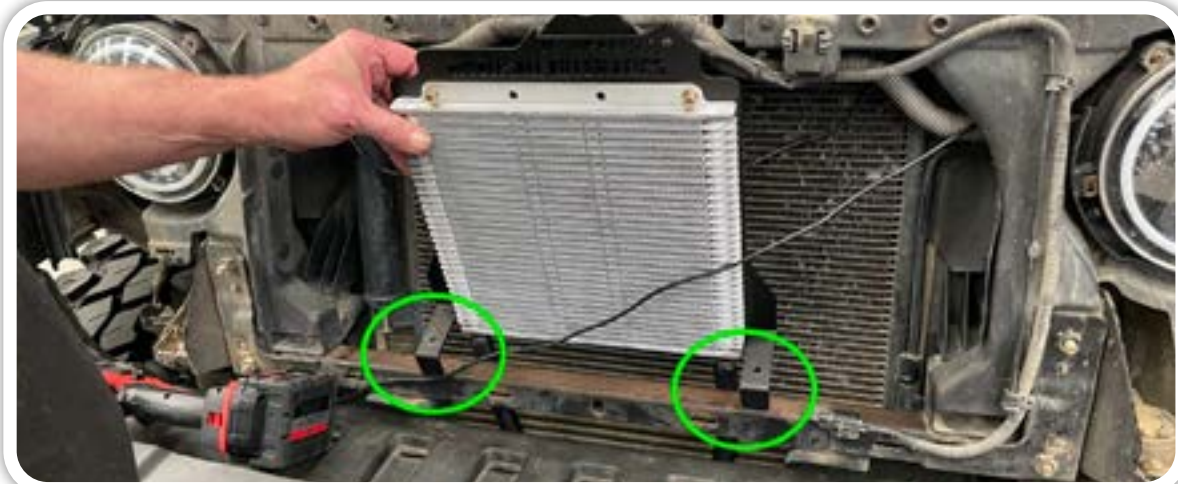


4. Insert the oil cooler in place, feeding the hoses right through to the underneath the car.

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



5. Remove the two Indicator (turning signal) plugs so the grill can be removed and placed out of the way.



6. Use M6x20 bolt provided to mount the top bracket, insert the plate with nut-sert behind to hold bolt in place.



7. Use the 2 x self tapping tek screws to secure the bottom of the bracket to the vehicle.



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



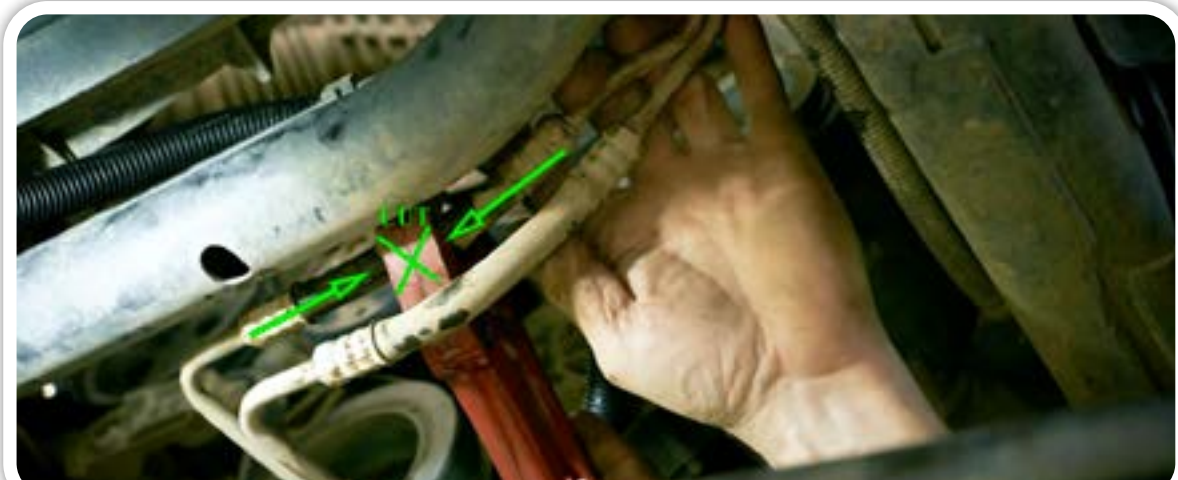
9. Moving under the vehicle, route the hose under the radiator and keep away from moving parts.



10. Locate the transmission hot line (top line).



11. Cut the braided hose mid way along the braided line.



- 12.** Insert a gold 3/8" barb into each end of the cut line.



- 13.** Secure each of the barbs with the hose clamps provided in the kit.



- 14.** 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 kinks that may restrict flow.

- 15.** 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.
- 16.** Top up the transmission oil to the "Hot" line, be patient and allow the oil to travel down the filler tube before checking.



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

***This completes the installation of the Oil Cooler Kit to Suit
Jeep Wrangler JK with 4 Speed 42RLE & 5 Speed NAG1
Automatic Transmissions***

***PLEASE REMEMBER ALL AUTOMATIC TRANSMISSIONS HAVE A SERVICE INTERVAL OF
2 YEARS OR 40,000KM TO IMPROVE THE LONGEVITY OF THE TRANSMISSION.***