



External Transmission Oil Cooler Kit

Suitable for:



**Toyota Tundra
AB60 6 Speed
Automatic Transmission**

WITH THE FOLLOWING ENGINES:
3UR-FE 5.7L V8

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.

Parts List

Cross Flow Oil Cooler
Pre-Mounted to Bracket
Plus Retainer Bracket



4 x 8-16mm Stainless
Steel Cooler Line Screw
Clamps



2.5m x 10mm High
Temp Cooler Line Hose
with Conduit



3 x M6x20mm SEMS
Bolt For Mounting
Bracket



5 x 300mm Cable Ties



Expected Installation Time: 2 Hours

Summary of Installation - For Experienced Fitters

- Ensure you have enough transmission oil to top up your transmission.
- Remove the plastic cover above the radiator by removing the plastic clips.
- Remove grill from the front of the vehicle.
- Fit one half of the line to each side of the cooler - FIT IT DRY - DO NOT use lubricant.
- Clamp the cooler lines to the cooler unit fittings using the provided screw clamps.
- Slide the cooler bracket and hoses down in front of the radiator.
- Unbolt the following from the vehicle: 1 x horn, the lower bolt that holds the center radiator support
- Mount the cooler and remount the passenger side horn by attaching to M8 OEM fitting
- Locate the bolt hole at the bottom left of the cooler. Bolt the cooler to your vehicle using this hole. Do not fully tighten the bolts at this point.
- Locate the last remaining bolt hole on the passenger side of the cooler bracket.
- Tighten all cooler bracket bolts.
- Remove 'U' bend from factory transmission line in front of radiator (image in detailed instructions)
- Connect the open ends of the transmission cooler to the exposed ends of the factory hard line.
- Use supplied cable ties to secure hoses as required.
- Road test vehicle then re-inspect cooler and fittings for leaks. Tighten if necessary.
- Refit any previously removed pieces.
- Refill/Check Transmission with appropriate fluid.
- Road Test.
- Recheck potential leaks and fluid level.

Detailed Installation Instructions

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

1. Open bonnet.
2. Ensure the car is fully switched off. It is recommended that the vehicle is cold prior to installation.
3. Remove upper radiator cowl by removing the plastic clips and bolts holding in the upper support panel.



4. Ensure all bolts are removed, they are located not only on the radiator support bar but also on each side headlight.



5. Gently pull the grille forward to access the clips located on the bottom. These are plastic so do not apply too much force, manoeuvre the grille forward enough to access the clips from behind.



6. With grille now removed and stored safely, the lower grille mount must be removed. This will require removal of six (6) 10mm nuts.



7. With the lower grille support removed we can now install the new cooler. Ensure you have connected the supplied transmission fluid hose to both ends, do not cut at this point. Secure both ends to the cooler.



8. Slide the cooler in to position carefully and attached supplied M6 nut and M6 bolt through the vacant hole in the lower support panel



9. Secure the second lower bracket using the factory M8 bolt located in the position required for the lower cooler bracket support.

- Using the factory M8 on the top radiator support, fix the top of the cooler bracket in place.



- Similarly, secure bottom cooler bracket to factory lower radiator support with the one (1) x 10mm bolt that was removed in Step three. Tighten this bolt now.



12. Remove the standard transmission fluid line located at the small bend in the image below.



13. Cut the pre-attached cooler line to suit the now exposed factory hard-lines. The cooler is non-directional so there is no specific side for each hose. Ensure you place the hose clamp over prior to fitting. Confirm the hose is not rubbing on anything along the route.



14. Reinstall the grille, mounts and covers in reverse order from the removal instructions.
15. Fill and test

Start the car.

While the car is running locate and remove the 24mm fill plug on the passenger side of the transmission.

Locate and remove the 5mm allen key head "Check Plug" located in the sump of the transmission.

****DO NOT** remove the 14mm bolt located nearby as this is the transmission drain plug.

Top up the transmission fluid through the fill plug until the fluid is fully flowing out of the check plug hole.

Watch the fluid flowing out of the check plug hole and once the flow flickers, quickly put the check plug back in and tighten. Return the 24mm fill plug and tighten.

Clean all underneath areas of transmission fluid

Road test then visually check for leaks and retighten any fittings as required.

With the engine still running, recheck fluid level by removing the Check Plug and checking if oil dribbles out as per previous instructions above.

If no oil is present please top up the oil level as directed earlier in this instruction.

**PLEASE NOTE: THE TRANSMISSION FLUID MAY BE QUITE HOT.
PLEASE TAKE CARE WHEN UNDOING CHECK PLUG BOLT.**

Check again for any transmission fluid on the vehicle and clean off.

16. Perform final road-test, re-inspect cooler and fittings for leaks.
Tighten if necessary.

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