

Toyota Land Cruiser 200 Series 2008-2019 Transmission Cooler Installation Guide

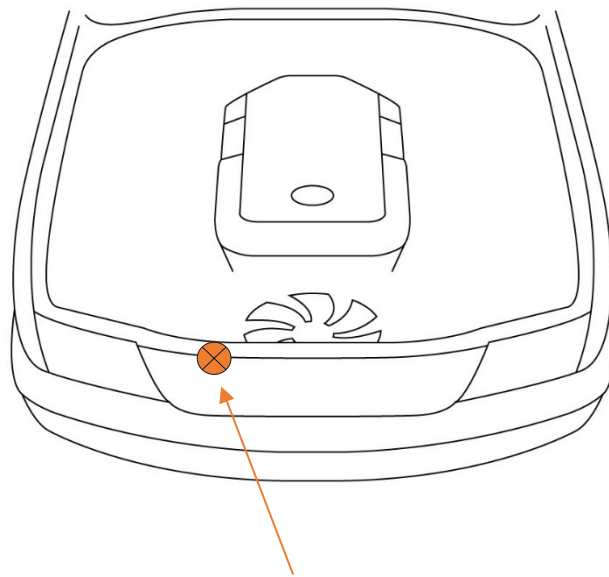
This document is to be used as a guide for the installation of the Direction-Plus™ Land Cruiser 200 Series Transmission Cooler Kit to a 2008-2019 Toyota Land Cruiser 200 Series with automatic transmission. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Important Before Starting

- Ensure you have the correct tools to complete the fitment
- Read the instructions in full and familiarize yourself with the installation, before commencing any work

Included in the kit

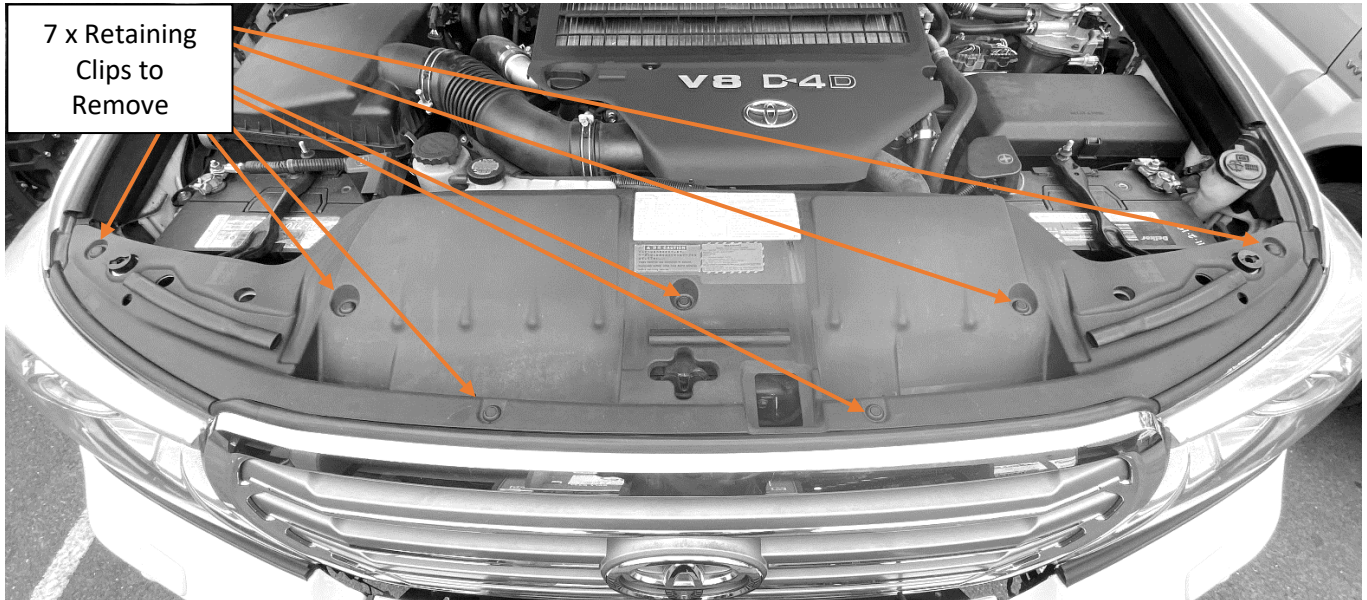
2 x Transmission Cooler
1 x Upper Mounting Bracket
1 x Lower Mounting Bracket
1x 3m of 3/8" ATF Hose
1x 450mm of 3/8" ATF Hose
8 x 15-17mm Clamps
8 x Cable Ties
2 x M8x16 Bolt
3 x M8 Flat Washer
1 x M8 Nut
2 x M8 Spring Washer
8 x M6x16 Bolts
16 x M6 Flat Washers
8 x M6 Nyloc Nuts
1 x Magnafine ATF filter



Approximate mounting location

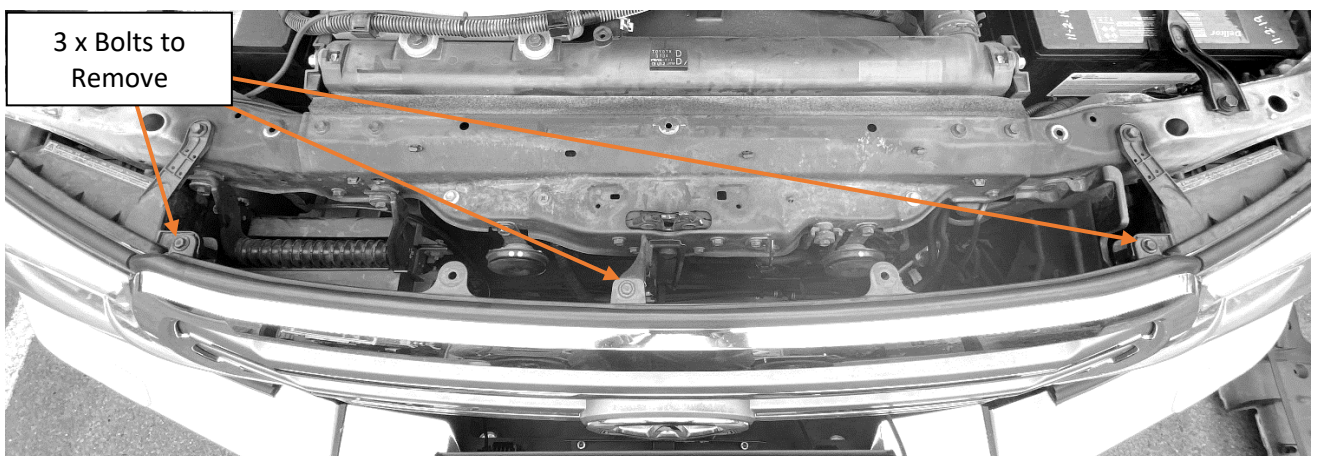
Installation Guide

1. Begin by removing the top trim panel between the radiator support and and. It is held in place at the top by seven clips. Once the clips are removed it can be lifted and removed.

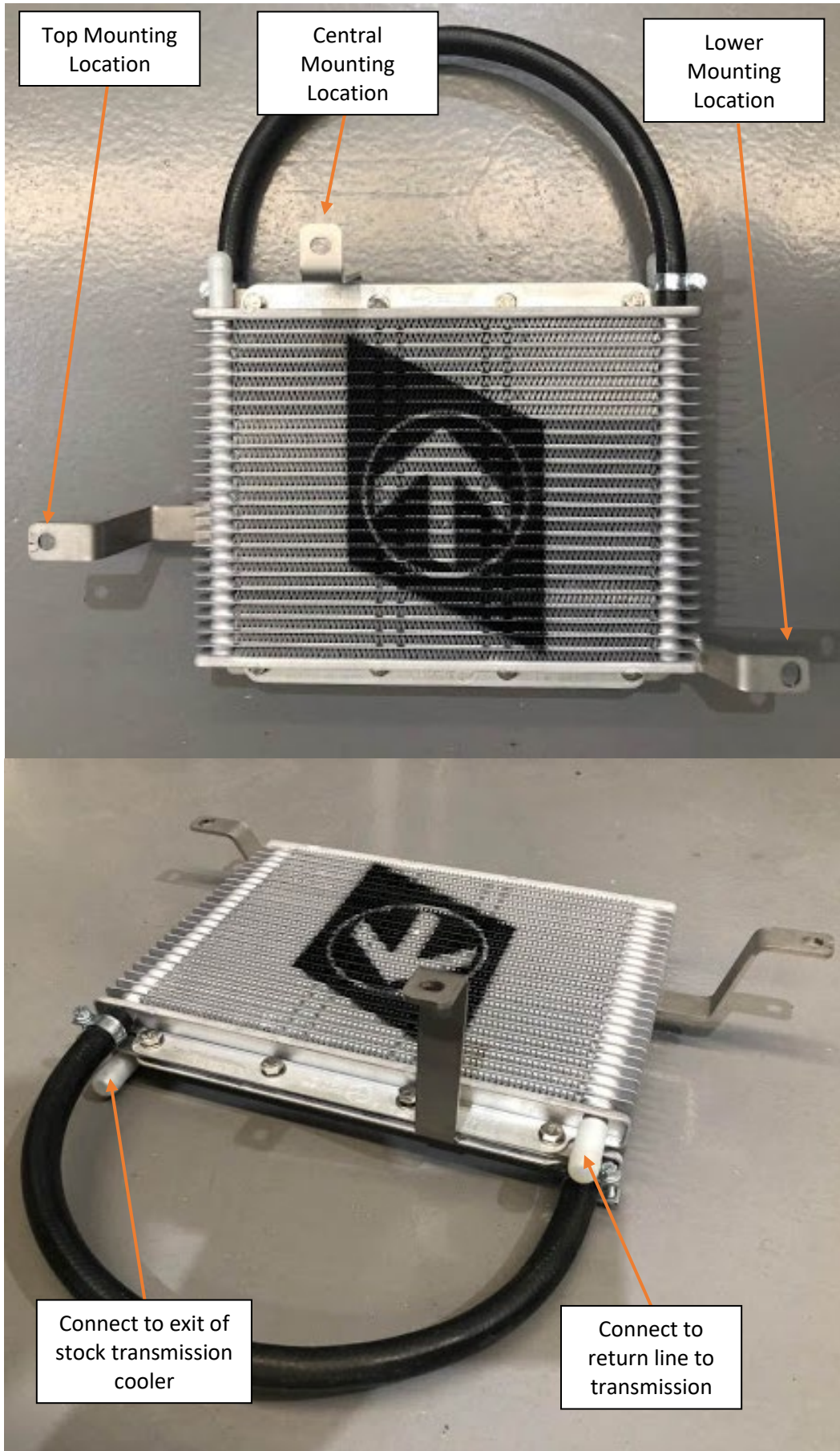


Land Cruiser 200 Series Front of Engine Bay

2. Remove the top three bolts that help support the grille. Next separate the grille from the clips that hold it to the headlights in the top corners. From the inside of the grille push the tabs towards the headlight to free to the top of the grille. Next is to separate the grille from stock front bumper. Pry down on the clips behind the grill so each one pops out. Remove the M8 bolt that retains the horn on the driver side and lift the horn up of the way.

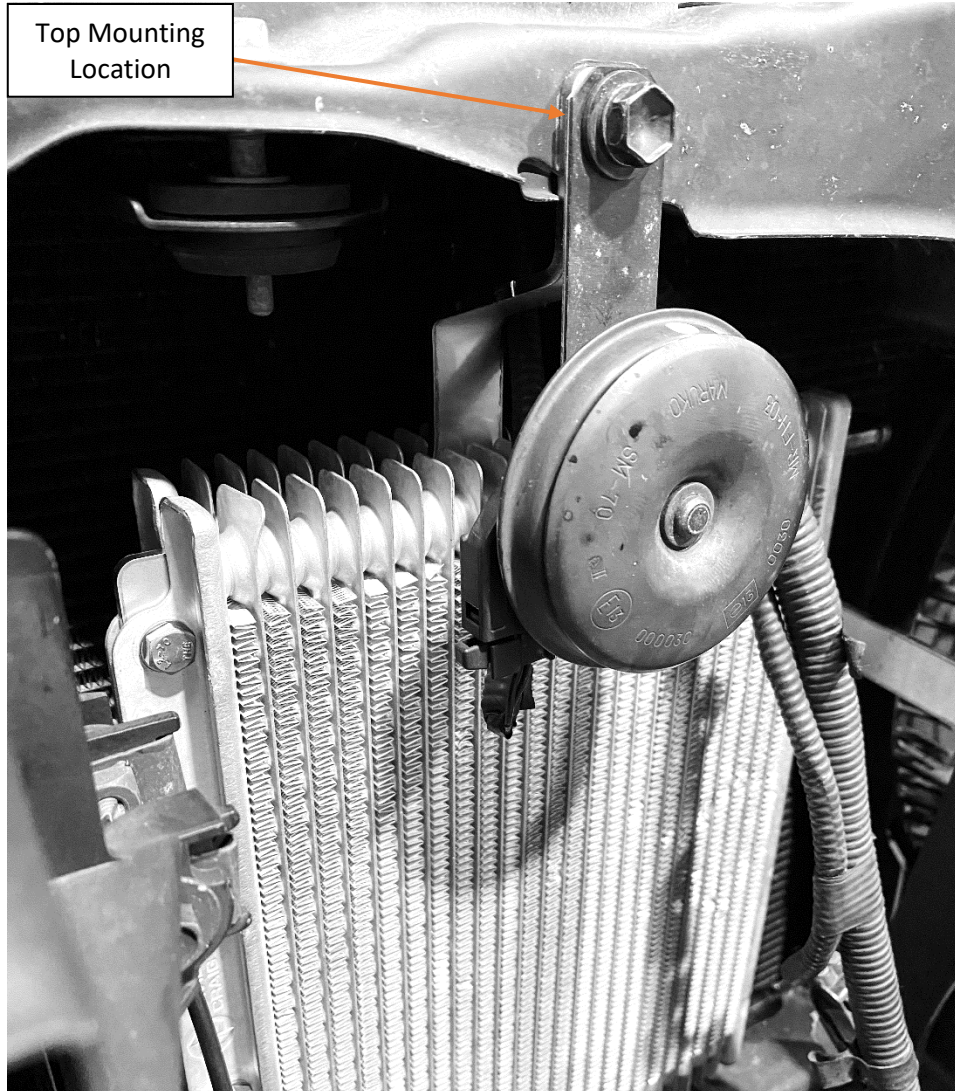


3. Assemble the transmission cooler to the brackets in the kit. The assembly will use all 8xM6 bolts, 16xM6 flat washers and 8xM6 nyloc nuts. The Transmission Cooler can fit to the front face and rear face, note which direction the ports are facing.



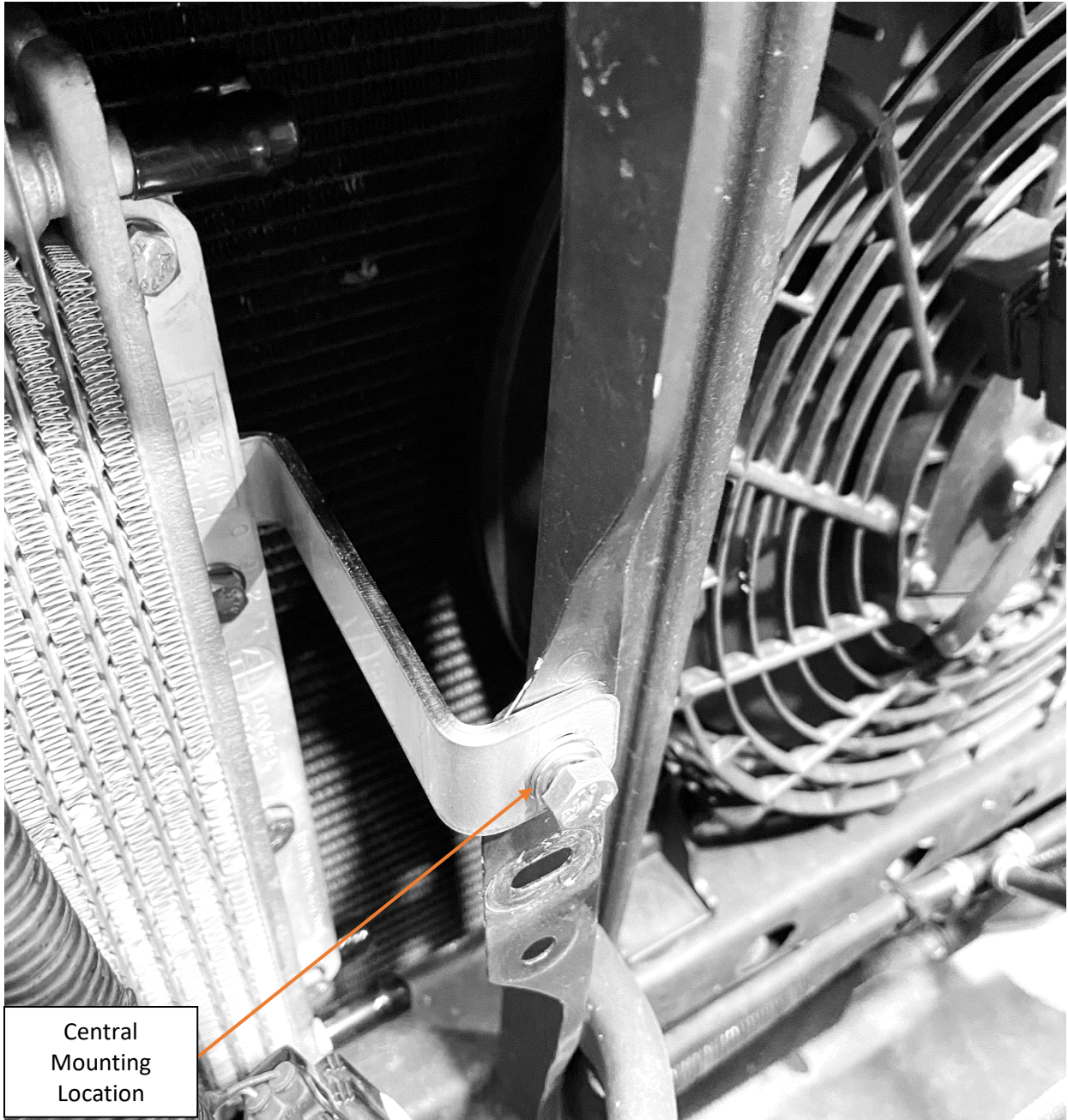
Dual transmission cooler arrangement and connection

4. Bolt the new transmission cooler and bracket assembly into the vehicle locating the top off the M8 threaded boss the horn uses as a mounting location. Sandwich between the horn and mounting face. Use the original bolt here.

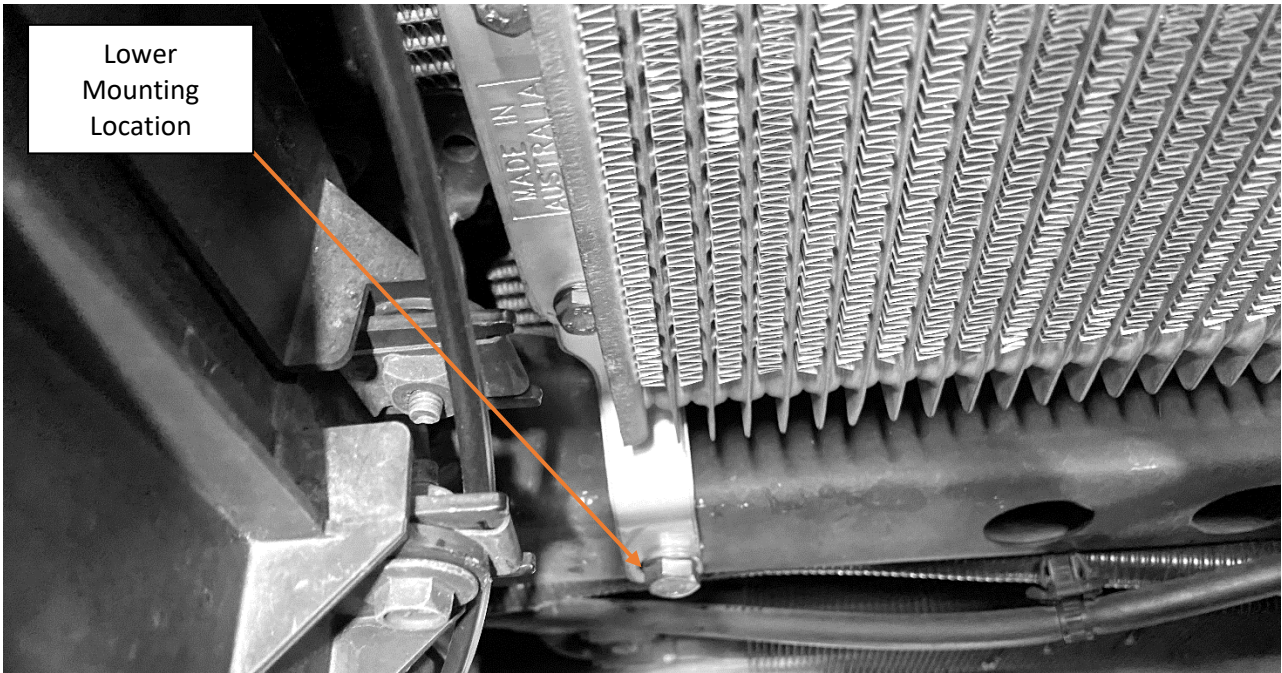


Transmission Cooler Assembly Bolted in Place.

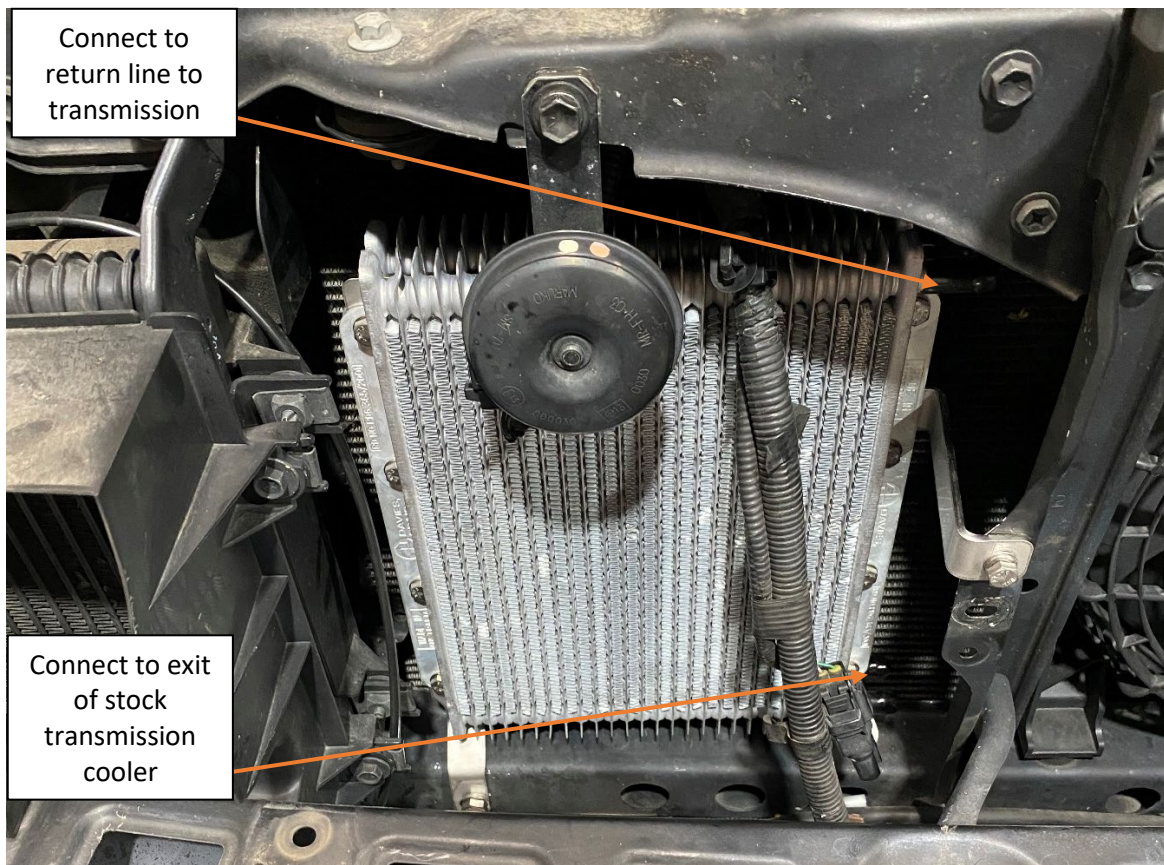
5. Use a M8x16 bolt, M8 spring washer and M8 flat washer to secure the central mounting tab to the spare M8 threaded hole in the center bonnet release support.



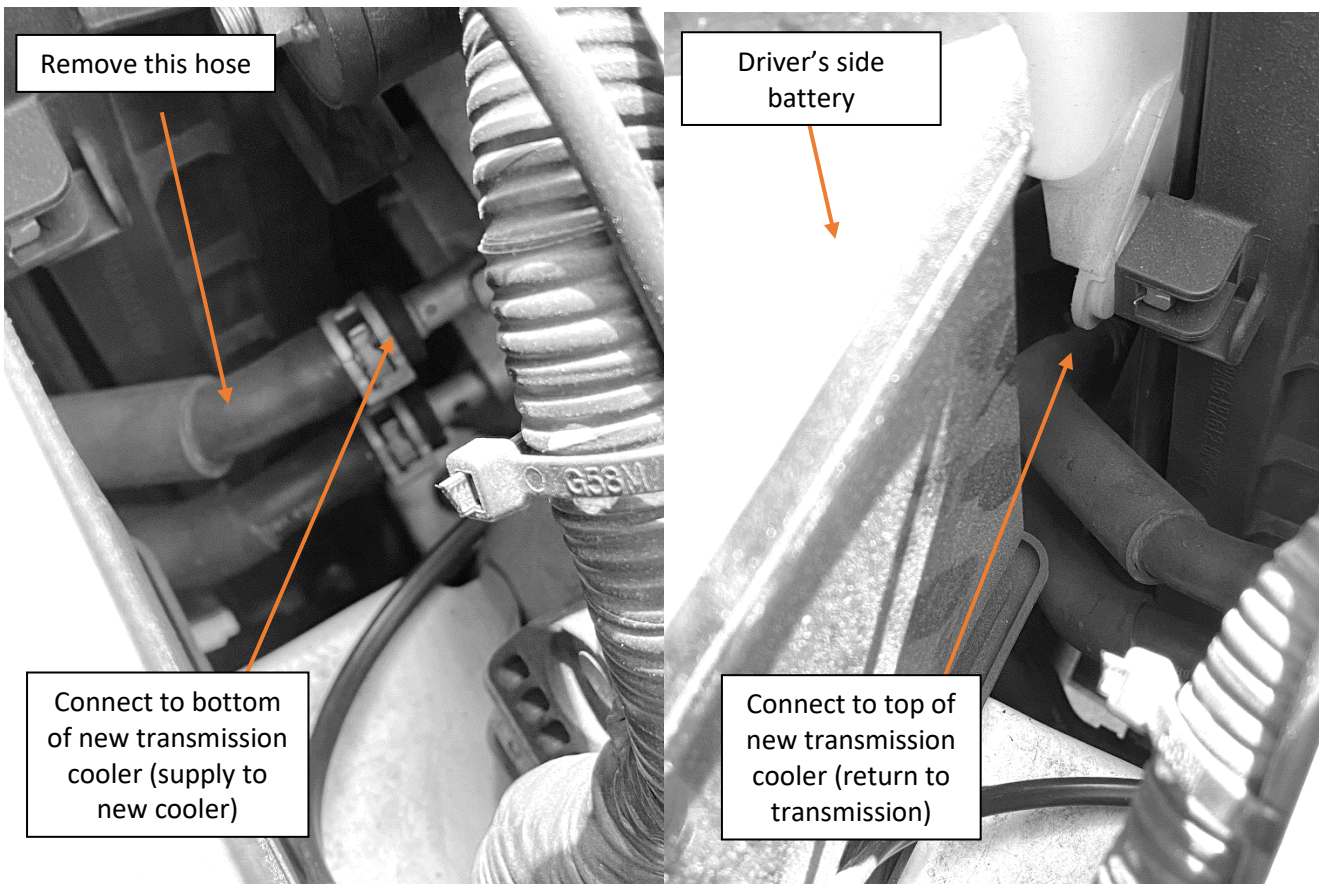
6. Use the final M8x16 bolt, with an M8 flat washer under its head and insert the bolt from the front through the lower mounting hole and bottom radiator support panel. Use the last M8 flat washer, M8 spring washer and M8 nut to secure from the back side.



7. Connect the one end of the supplied hose to the lower port on the transmission cooler, secure in place with a clamp.
8. Run the hose between the body mount and the radiator on the driver's side of the vehicle. Measure and cut the hose to length and connect the other end to the outlet port on the stock transmission cooler (located under the power steering reservoir in the engine bay), secure in place with a clamp.



Finished Cooler Assembly in Place



Stock transmission cooler lines under power steering reservoir, the top line is removed.

9. Connect one end of the remaining supplied hose to the top port on the transmission cooler, secure in place with a clamp. (for dual coolers, connect this line to the top of the second cooler)
10. Connect the other end of this hose to the hard steel return line to the transmission that used to connect to the stock transmission cooler, secure in place with a clamp.
11. For dual coolers, use a length of about 500mm to link the lower port on one cooler to the top of the other, secure in place with clamps.
12. Use cable ties to secure any loose cooler line to prevent rubbing.
13. The Two coolers hold 240mL of fluid, plus 70mL per 1m of hose, calculate the total amount and top up the transmission using the correct factory specified transmission fluid.
14. Reinstall the grille in reverse as how it was removed in step 1 & 2.

End of Installation Guide