



Direction-Plus Transmission Cooler Installation Guide for Toyota Land Cruiser Prado 150 Series (2009-2022)

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 **Toyota Land Cruiser Prado 150 Series (2009-2022)** with automatic transmission.

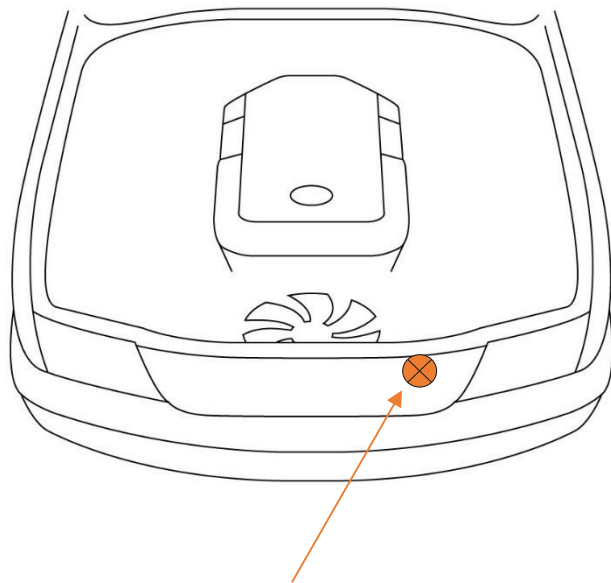
It is recommended that the installation of the product be carried out by a competent qualified mechanic.

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

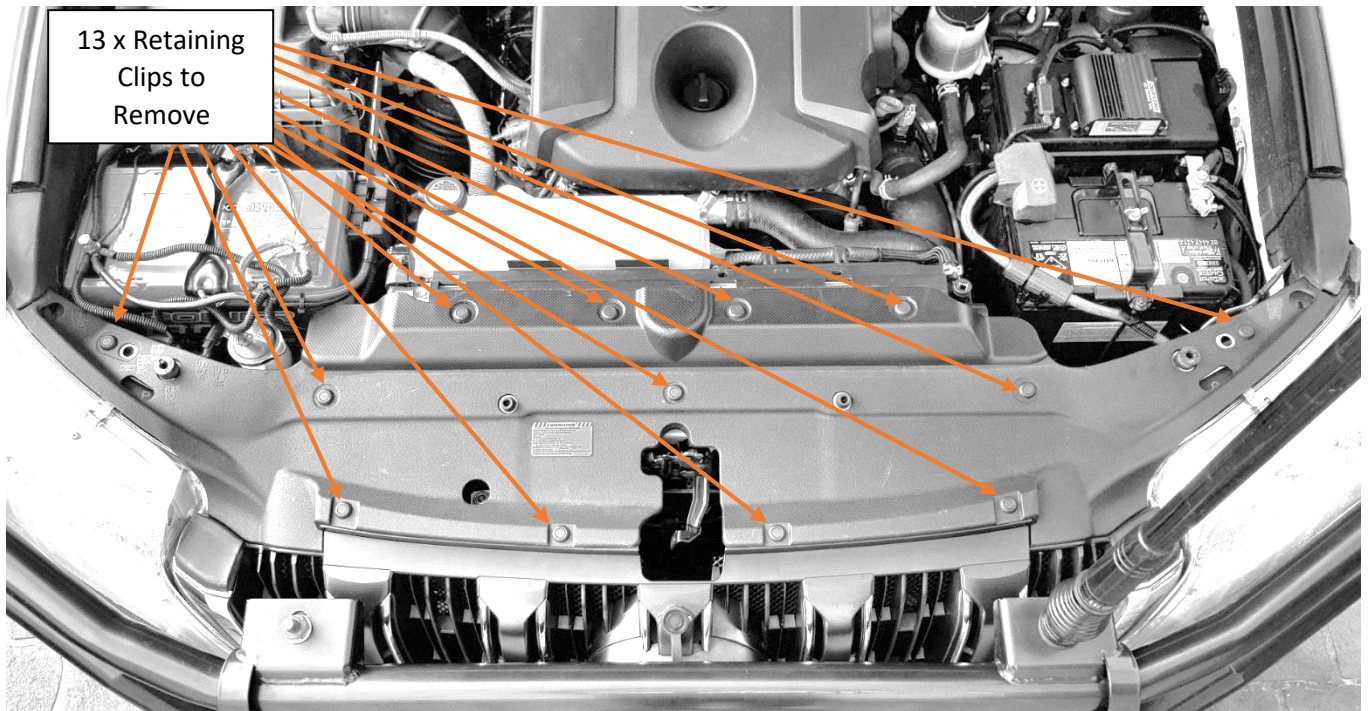
- 1 x Transmission Cooler
- 1x Upper Mounting bracket
- 1x Lower Mounting Bracket
- 1x 3m of 3/8" hose
- 4 x 15-17mm Clamps
- 8 x Cable Ties
- 2 x M6x16 Bolt
- 2x M6 Flat Washers
- 2x M6 Spring Washers
- 1x 5/8" P-Clip
- 8x M6x16 Bolts
- 16x M6x15 Flat Washers
- 8x M6x16 Nyloc Nuts



Approximate mounting location

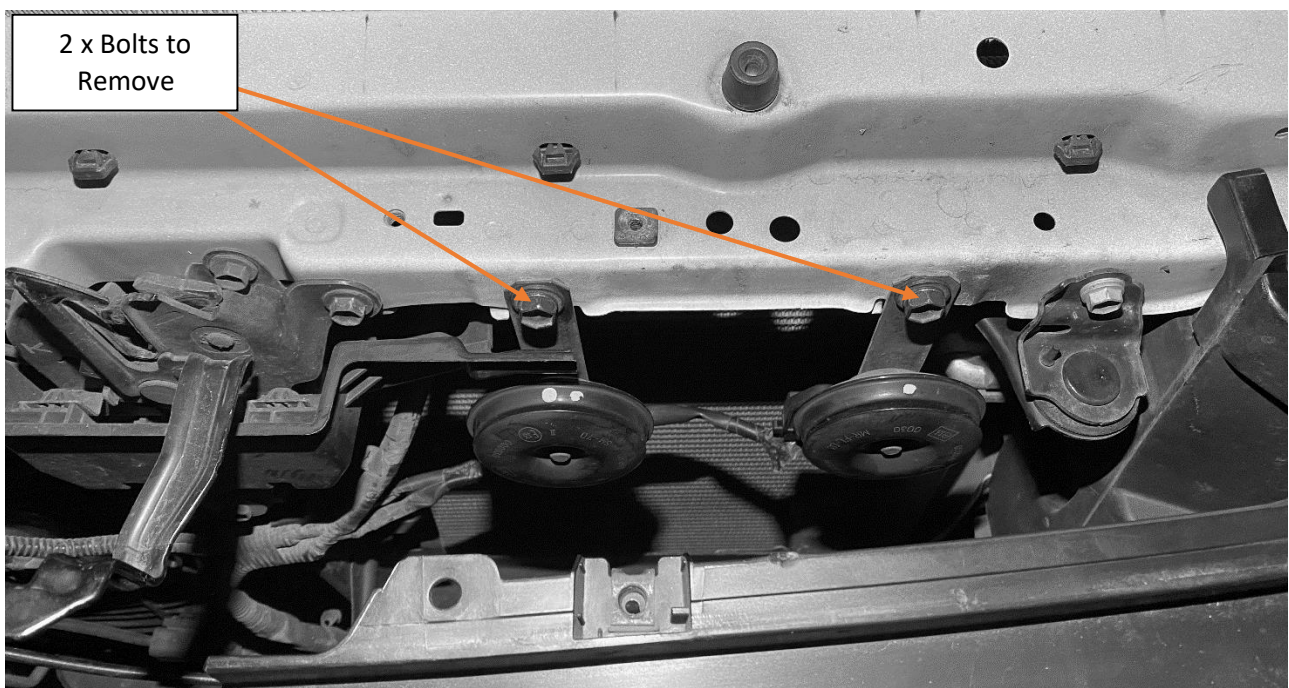
Installation Guide

1. Begin by removing the top trim panel. It is held in place at the top by seven clips. Once the clips are removed, the trim panel can be lifted out.



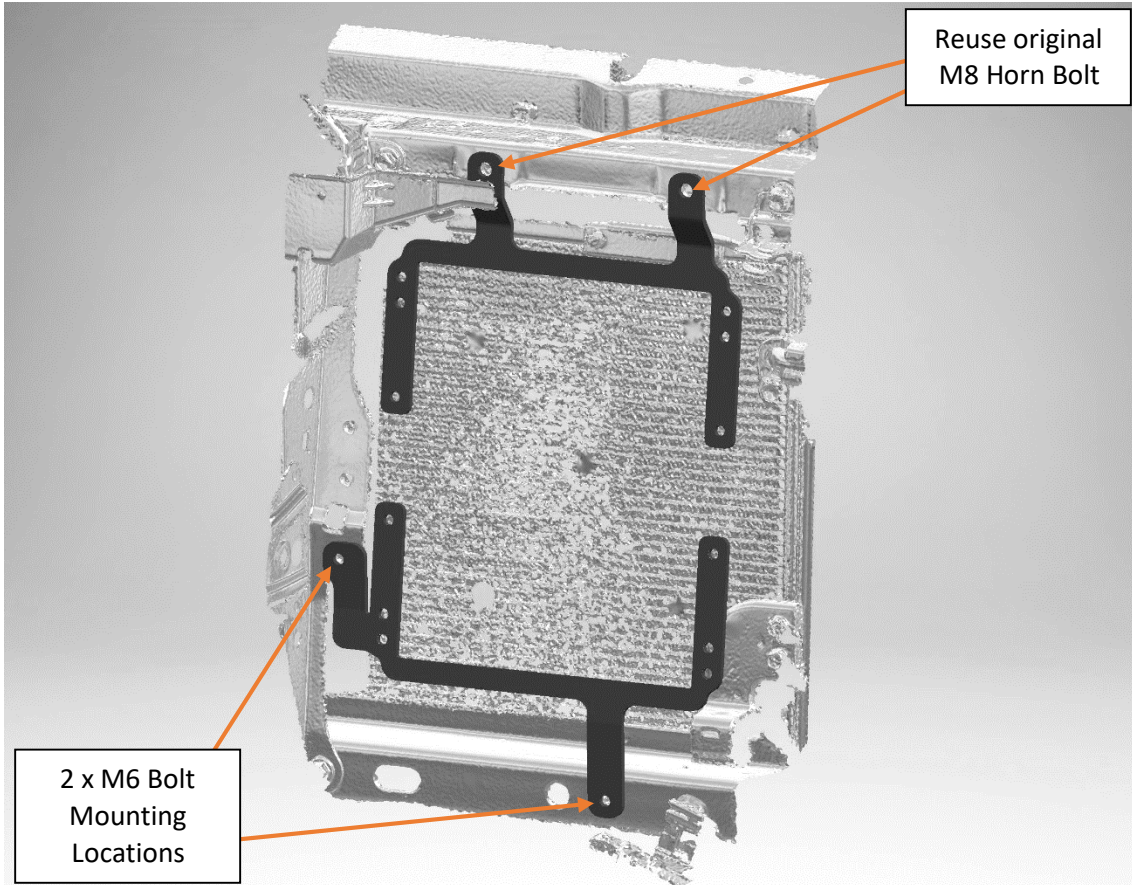
Land Cruiser Prado 150 Series Front of Engine Bay

2. Remove the grill by undoing the bolts next to the headlights along the grille edge and clips that secure the grille to the bumper. If equipped with radar cruise control this will also need to be unplugged.
3. Remove the top two bolts that mount the horns. Swing the horns on the harness out of the way.

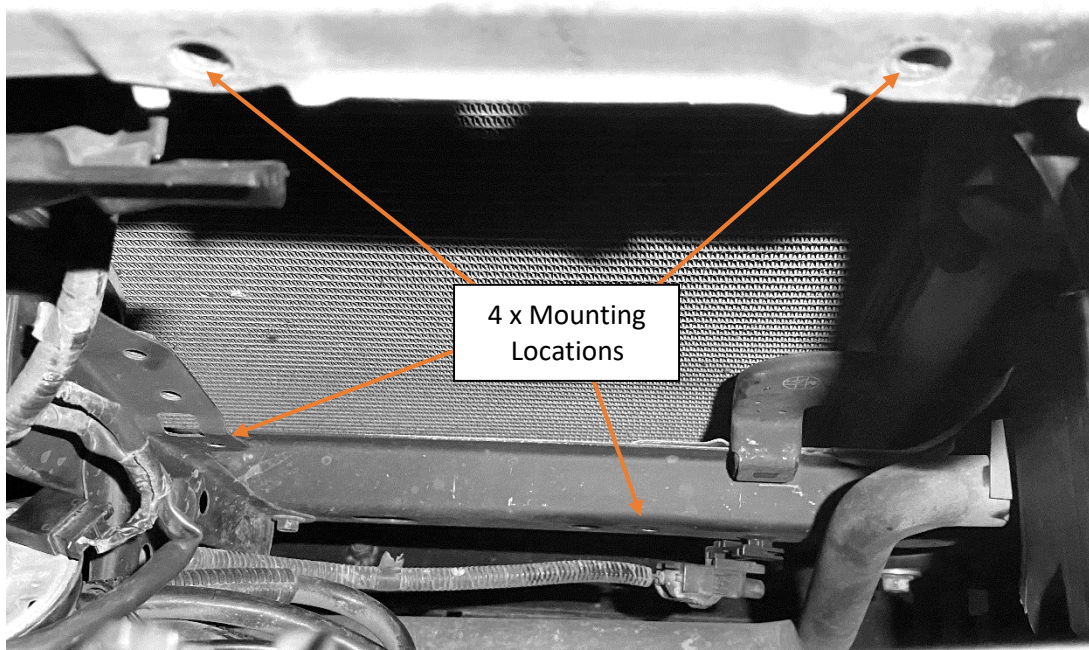


4. Attach the transmission cooler to the brackets. This will use all 8xM6 bolts, 16xM6 flat washers and 8xM6 nyloc nuts. Insert the bolts through the bracket first with the nuts hidden on the rear face.

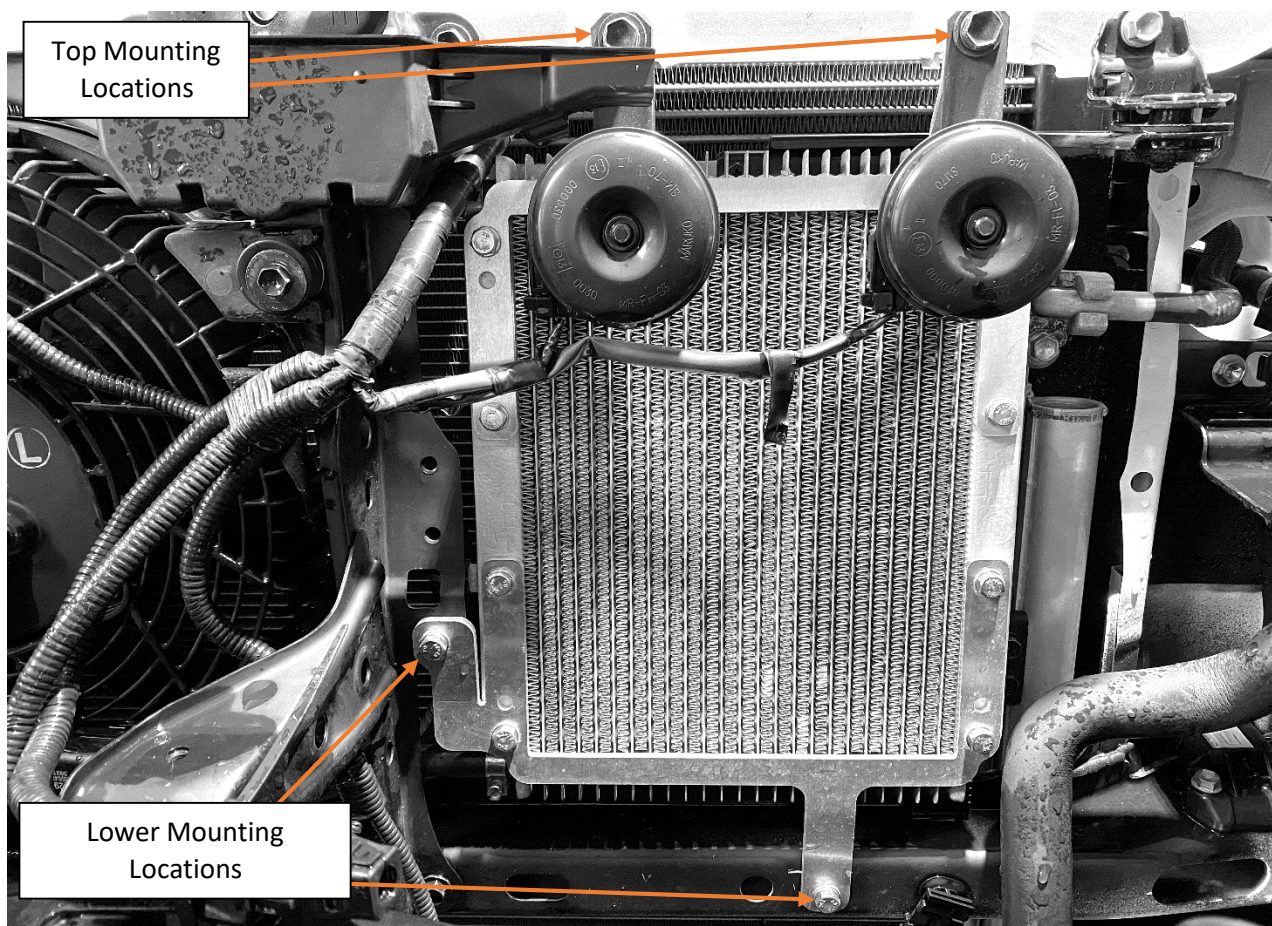
NOTE: the transmission cooler ports face the center of the vehicle.



Location of brackets installed on vehicle



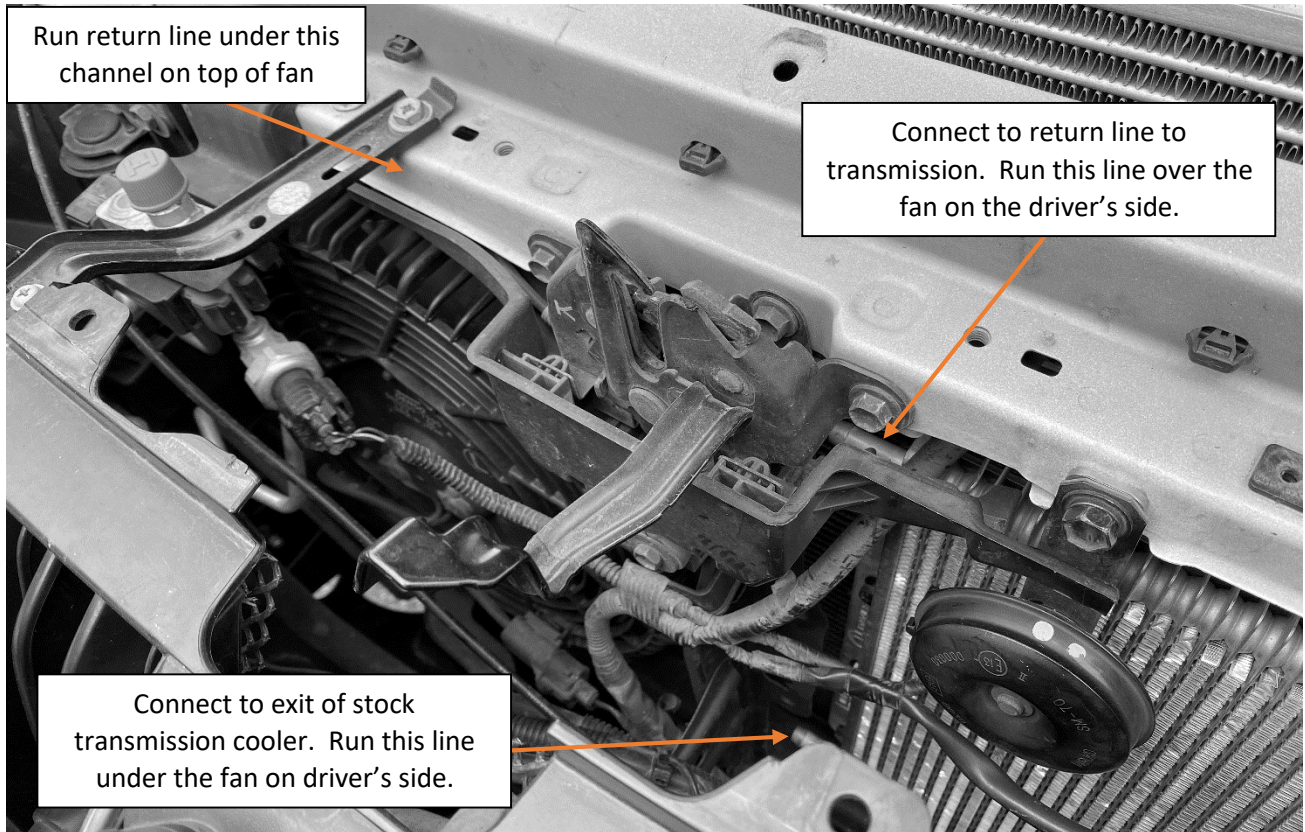
5. Bolt the transmission cooler and bracket assembly into the vehicle. Use the top of the two M8 threaded bosses the horn uses as a mounting location in the radiator support. Fit the assembly between the horn and mounting face. Use the original bolts here.



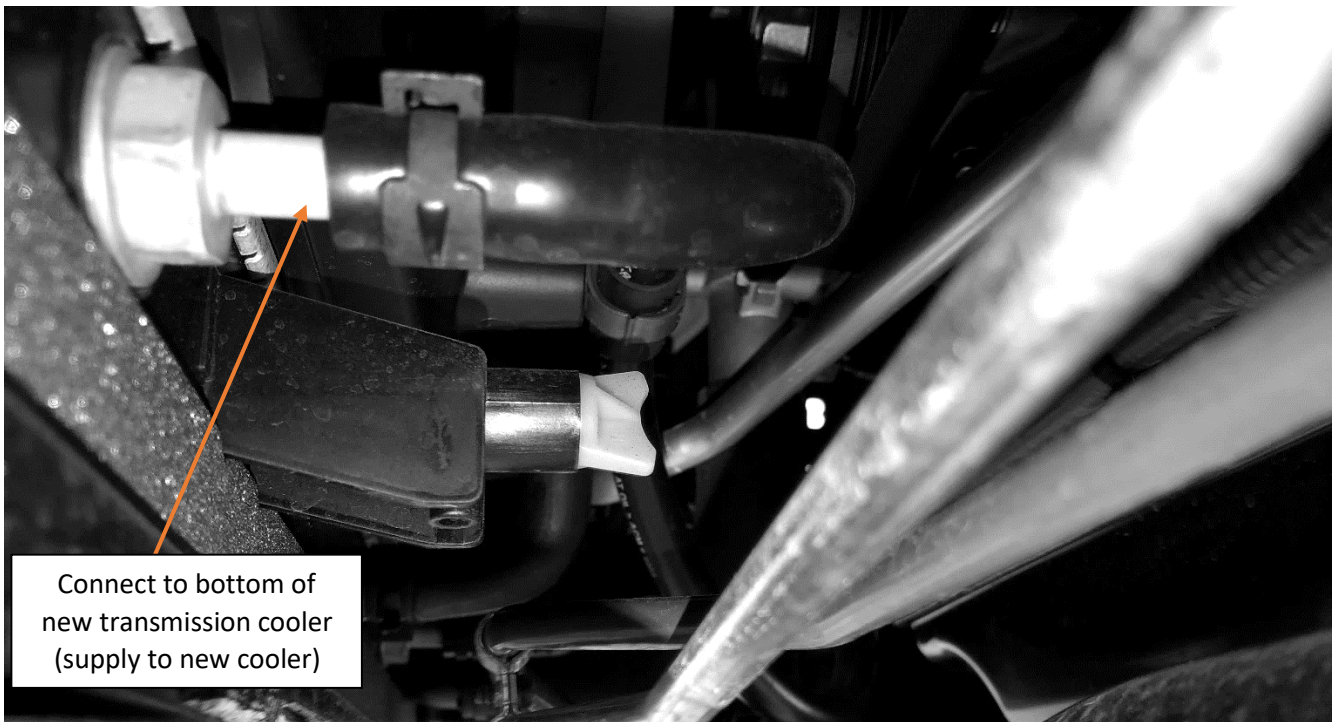
Transmission Cooler Assembly Bolted in Place.

6. Use the two remaining M6x16 bolt, M6 spring washer, and M6 flat washer to secure the bottom mounting tab to the spare M6 threaded hole in the lower radiator support panel and the spare M6 threaded hole in the center support.
7. Connect 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. It is either:
 - In the bottom radiator tank on the passenger's side (for vehicles with radiator tanks on the top and bottom)
 - The top port on the driver's side (for vehicles with radiator end tanks on the sides)

Secure in place with a clamp.



Finished Cooler Assembly in Place

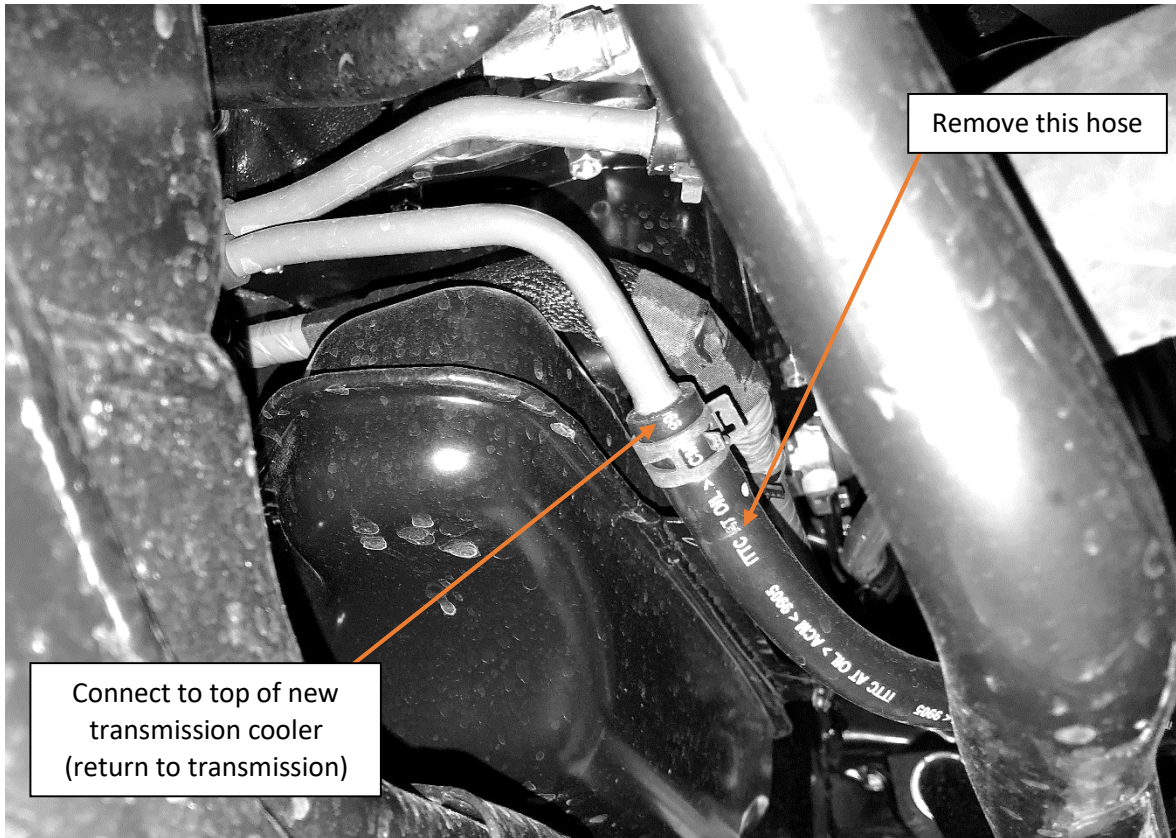


Version 1 Stock transmission cooler lines in lower radiator tank.

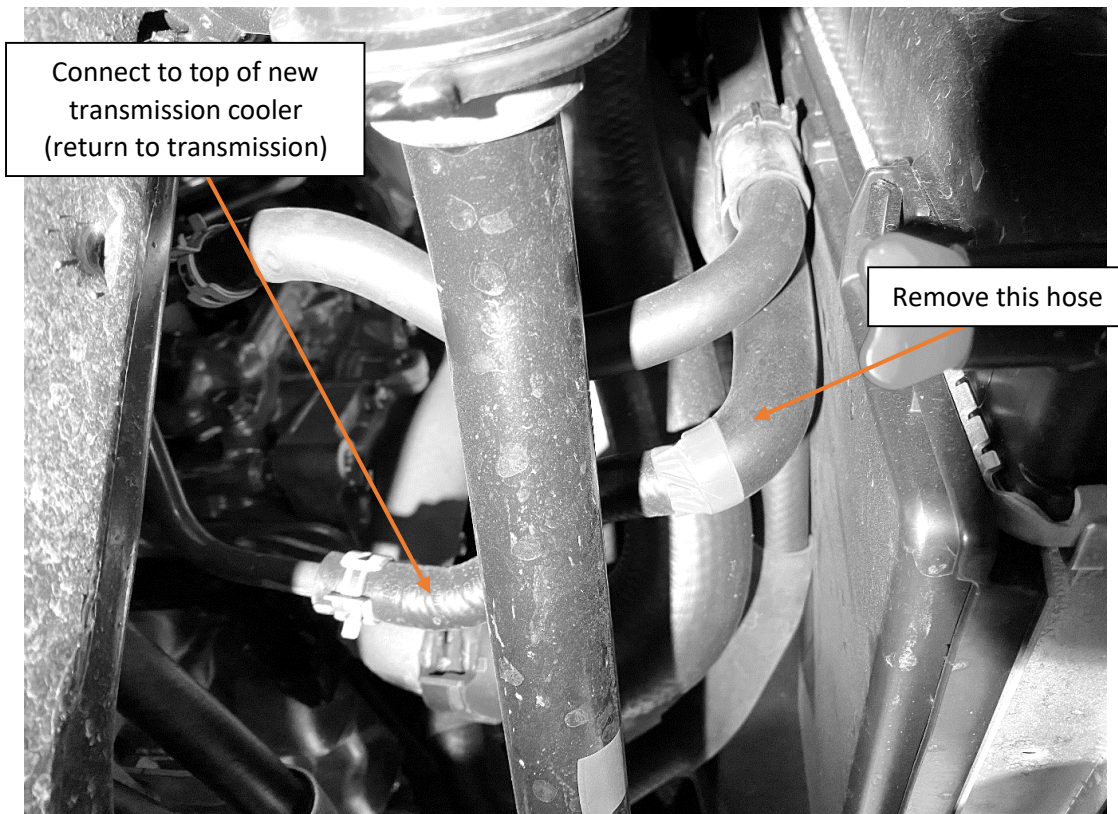


Version 2 Stock transmission cooler lines in driver's side radiator end tank

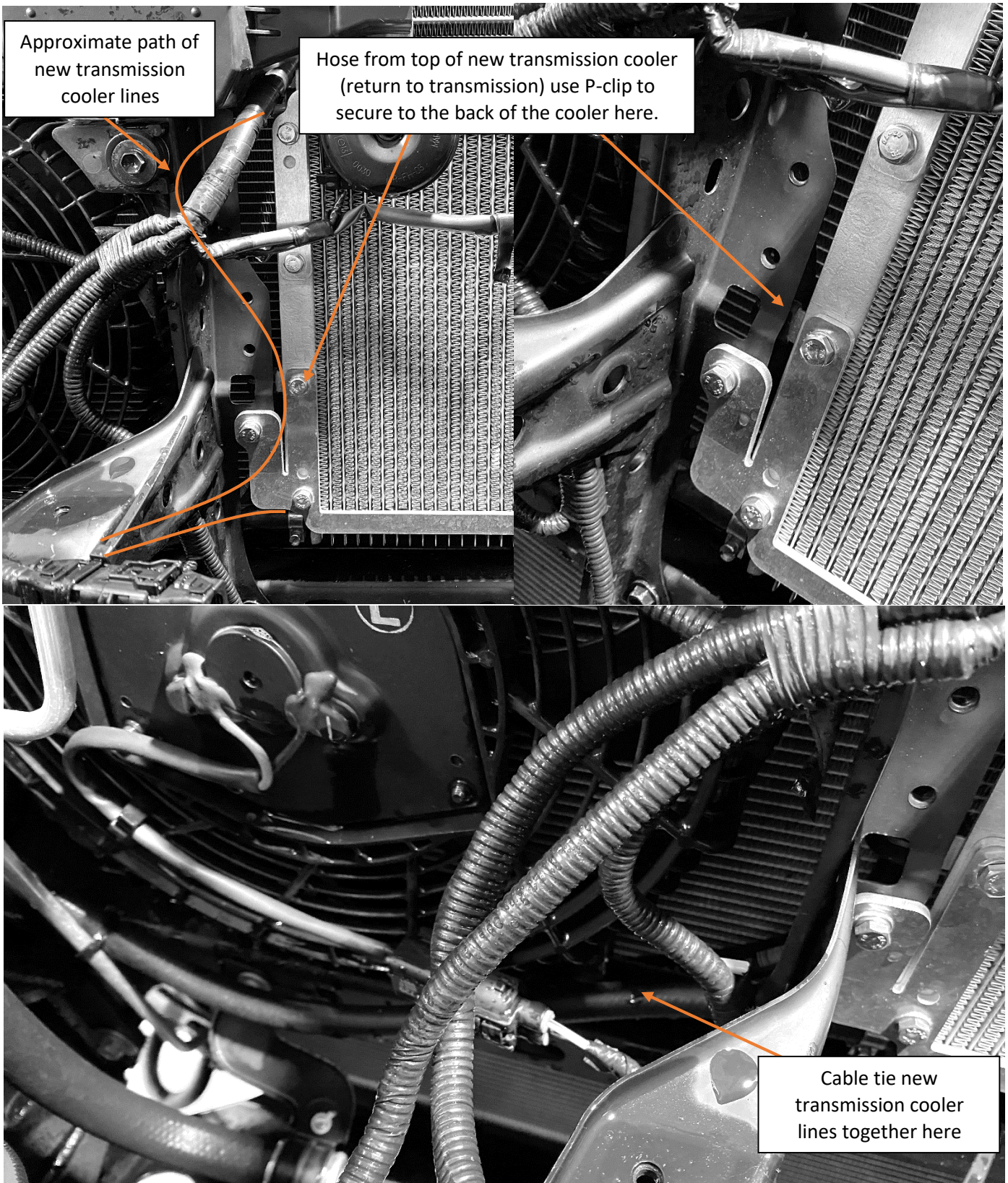
9. Connect one end of the remaining supplied hose to the top port on the transmission cooler, secure in place with a clamp.

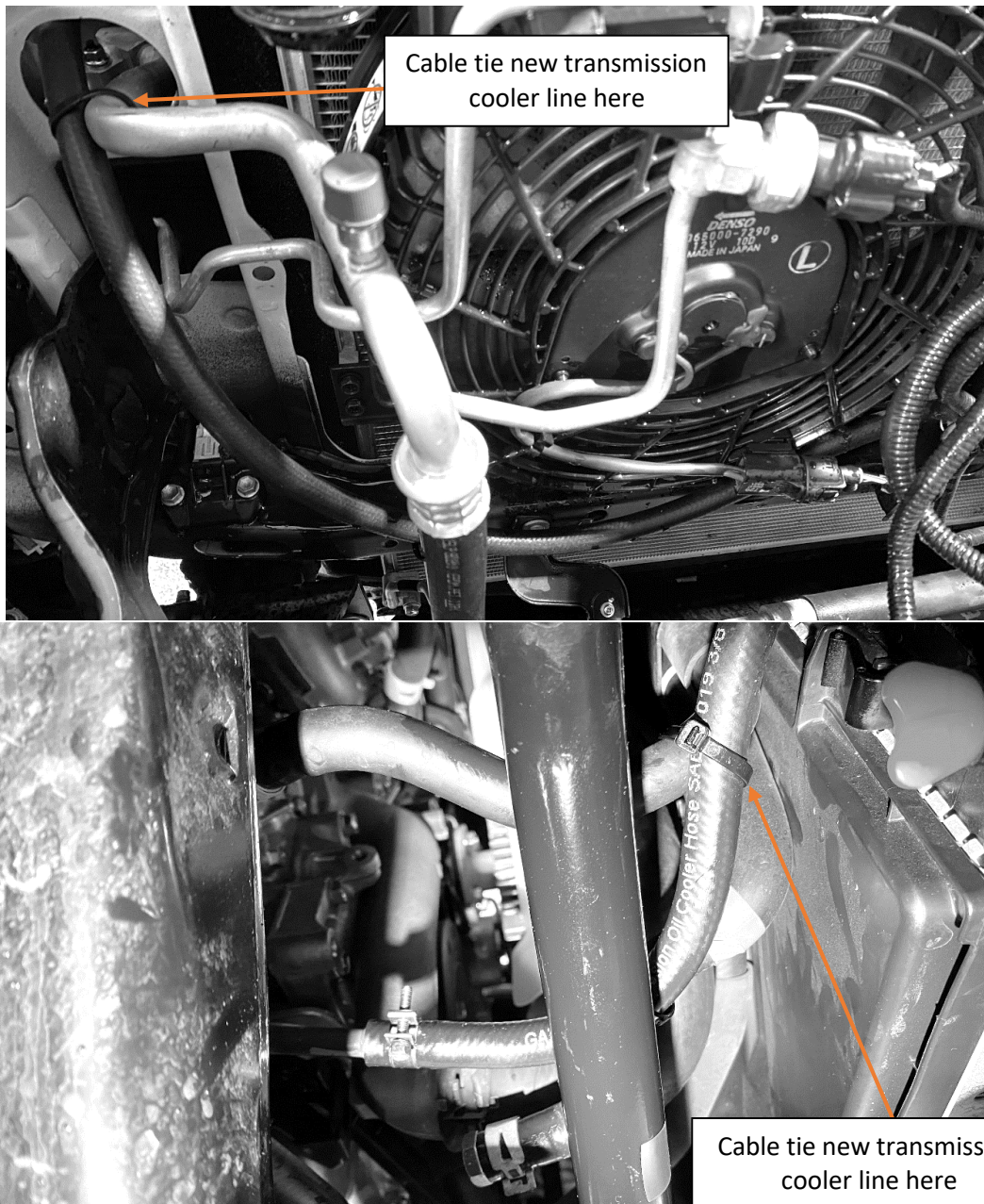


Version 1 Stock transmission cooler lines return to transmission for vehicles with cooler in bottom radiator end tank.



Version 2 Stock transmission cooler lines return to transmission for vehicles with cooler in driver's side radiator end tank





10. Connect the other end of this hose to the steel return line to the transmission that used to connect to the stock transmission cooler, secure in place with a clamp.
11. Use cable ties to secure any loose cooler line to prevent rubbing.
12. The cooler itself holds 120mL of fluid, plus 70mL per 1m of hose, calculate the total amount and top up the transmission using the correct factory specified transmission fluid.
13. Reinstall the trim panel in reverse to how it was removed in step 1.

[End of Installation Guide](#)