



Toyota Hilux N70 2005-2015 Transmission Cooler Installation Guide

This document is to be used as a guide for the installation of the Direction-Plus™ Hilux N70 Transmission Cooler Kit to a 2005-2015 Toyota Hilux N70 with automatic transmission. It fits both 4.0L V6 and 3.0L diesel versions. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Important before starting

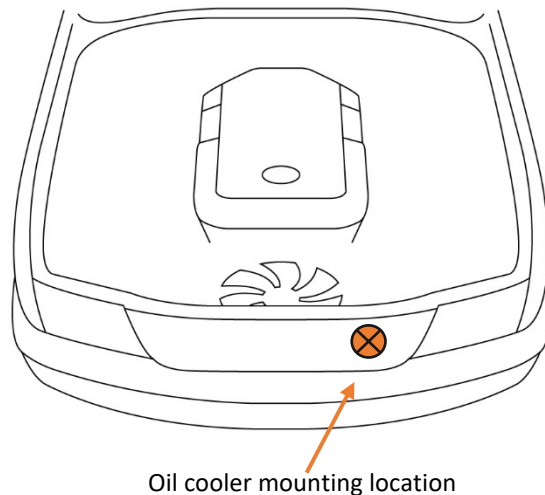
- Ensure the engine bay is clean and free from contaminates
- You have the correct tools to complete the fitment
- Read the instructions in full and familiarize yourself with the installation, before commencing any work

Note: Fitment of the magnefine® element is optional and can be installed in line at any point along the ATF hose. Make sure that attention is paid to the direction of flow

Included in the kit

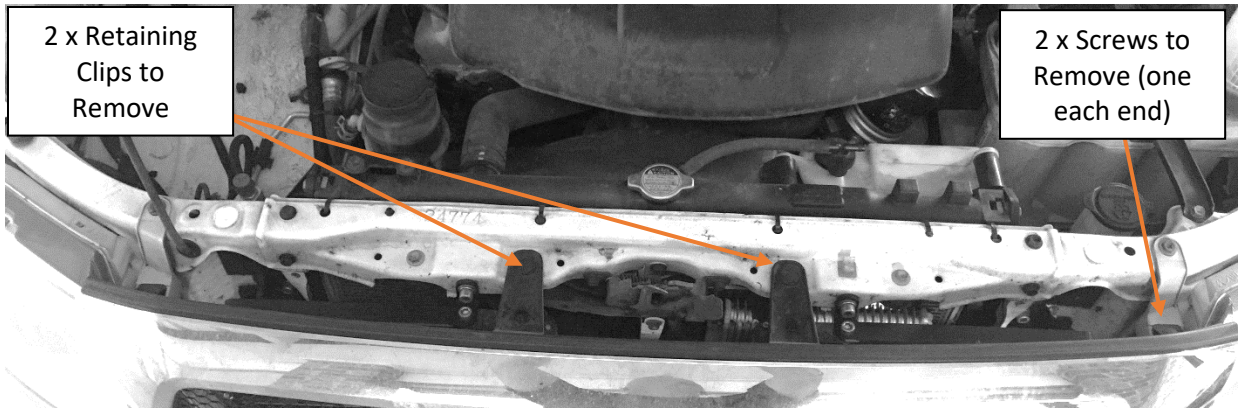
- 1 x Transmission Cooler
- 1 x Upper Mounting Bracket
- 1 x Lower Mounting Bracket
- 1x 3m of 3/8" Hose
- 4 x 15-17mm Clamps
- 8 x Cable Ties
- 8 x M6x16 Bolts
- 16 x M6 Flat Washers
- 8 x M6 Nyloc Nuts
- 1 x Insulated P Clip

*Kit contents are subject to change based on component availability



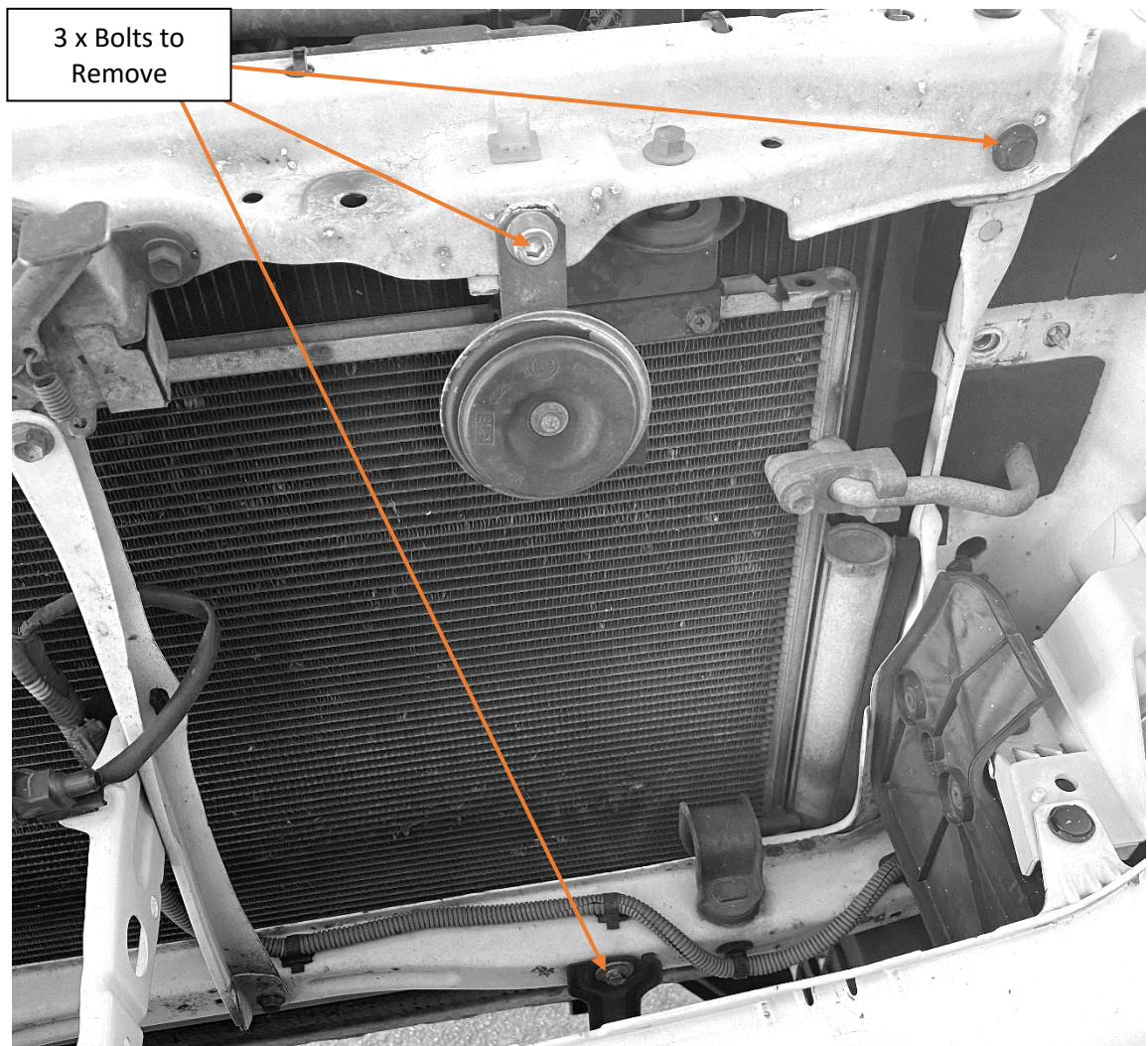
Installation Guide

1. Begin by removing the grille between the headlights. It is held in place at the top by two clips and two screws. Once the clips are removed it needs to be carefully removed from the clips that hold it to the stock front bumper. Pry down on the clips gently behind the grill so each one pops out.



N70 Hilux Front of Engine Bay

2. Remove the top M8 bolt on the passenger side horn, as well as the M6 bolt that helps secure the radiator support panel. These are the new top transmission cooler bracket mounting locations. Remove the lower M6 bolt that helps secure the stock bumper trim (providing it is still installed). This is the new lower transmission cooler bracket mounting location.

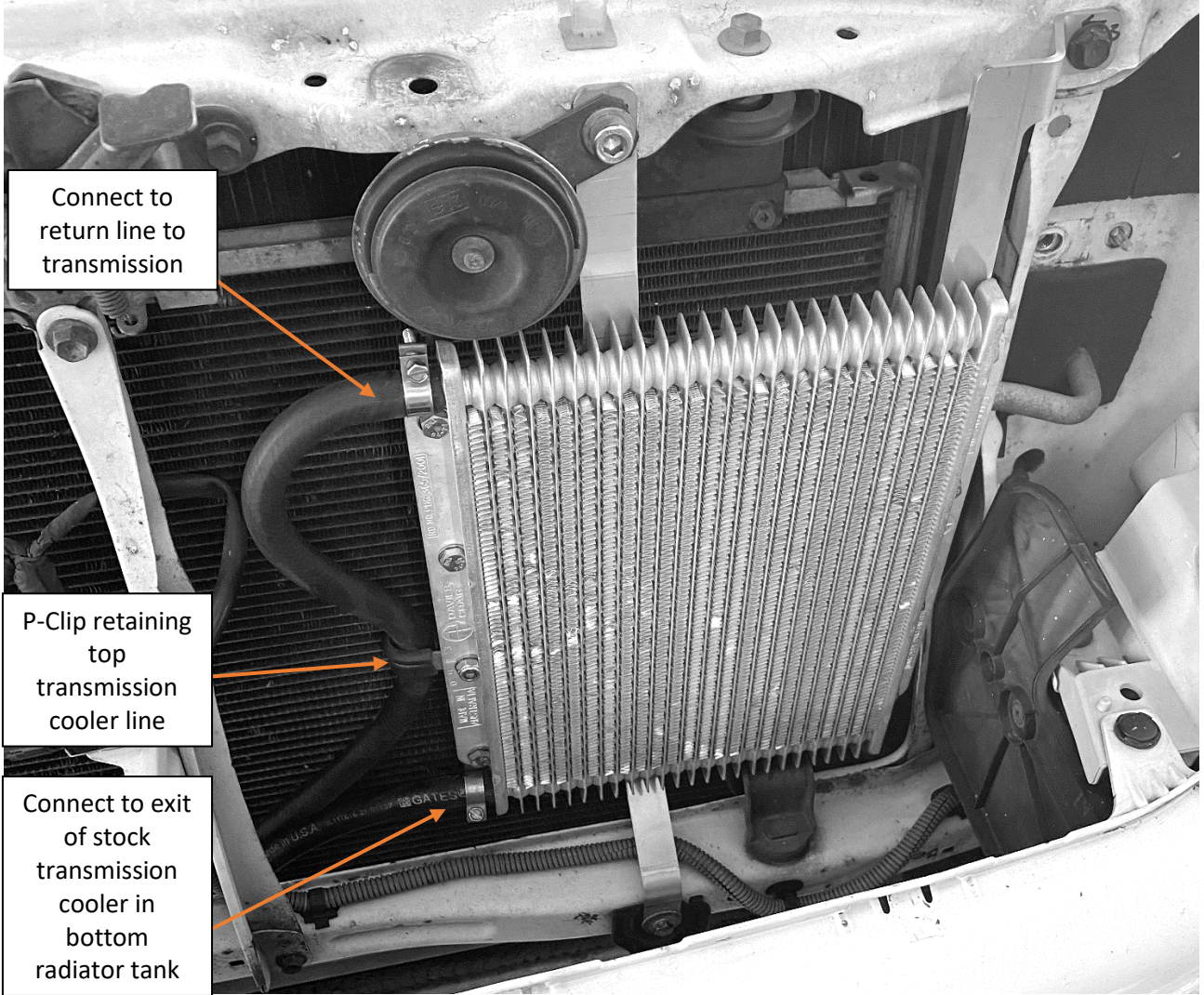


3. Assemble the transmission cooler to the brackets in the kit. The assembly will use all 8xM6 bolts, 16xM6 flat washers and 8xM6 nyloc nuts.
4. Bolt the new transmission cooler and bracket assembly into the vehicle locating off the M8 and M6 bolts that were removed in step 2.

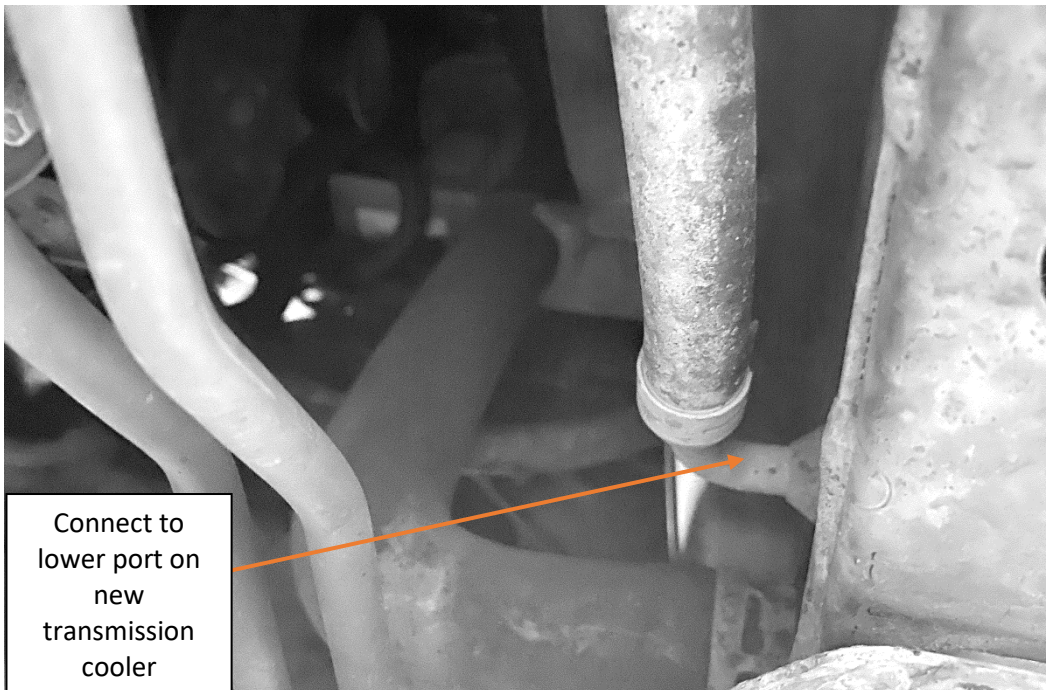


Transmission Cooler Assembly Bolted in Place. Note: Cooler sits on front face of brackets, with nuts towards the rear, bolts to the front.

5. Connect the one end of the supplied hose to the lower port on the transmission cooler, secure in place with a clamp.
6. 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 in the bottom of the radiator), secure in place with a clamp.

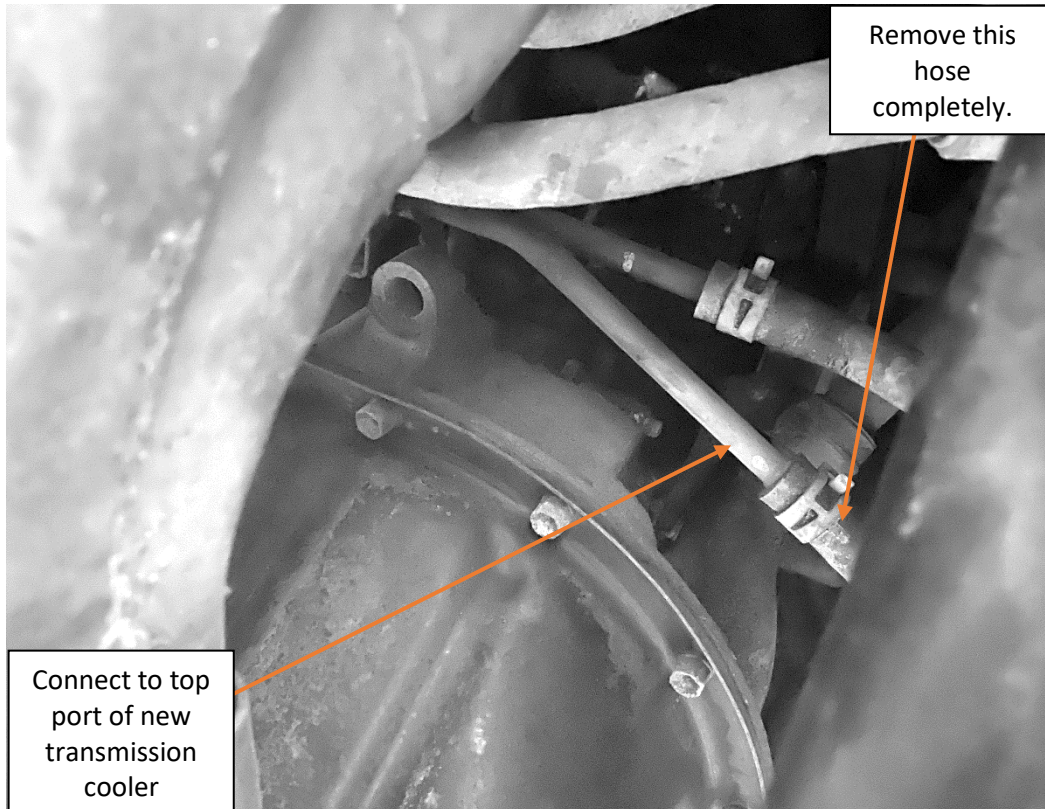


Finished Cooler Assembly in Place



Stock transmission cooler hose going to stock cooler in lower radiator tank (passenger side)

7. Connect one end of the remaining supplied hose to the top port on the transmission cooler, secure in place with a clamp.
8. Use the insulated P Clip to secure the line from the top port of the new transmission cooler, using the second bottom M6 bolt, near the center of the vehicle as shown above. Leave enough slack to not cause tension in the line as shown.



Factory transmission cooler hard lines connect return hose as marked

9. 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.
10. Use cable ties to secure any loose cooler line to prevent rubbing.
11. 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.
12. Reinstall the grille in reverse as how it was removed in step 1.

End of Installation Guide