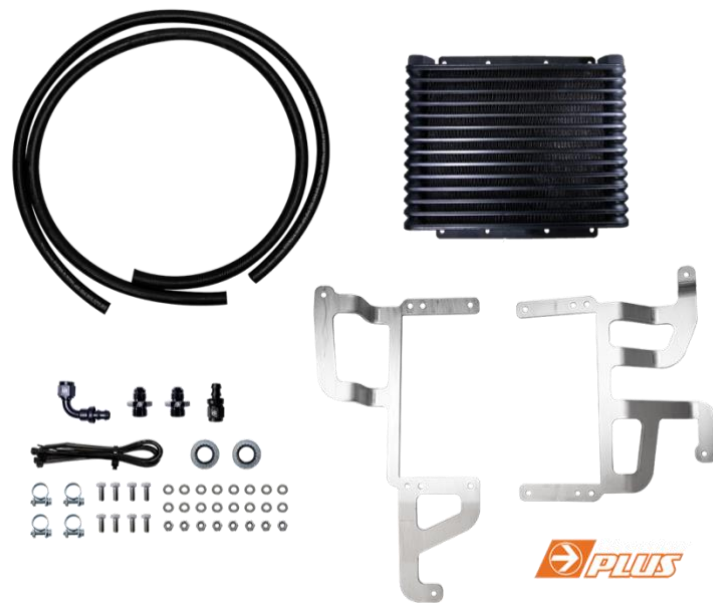


Transmission Cooler Arctic Black kit

Installation Guide for Isuzu D-MAX / MU-X 2012-2019

This document is to be used as a guide for the installation of the Direction Plus Isuzu D-Max Transmission Cooler Kit to a 2012-2019 Isuzu D-Max / MU-X 3.0L 4JJ1 Diesel with automatic transmission. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Included in the kit



<i>Loose</i>	<i>Bagged</i>	<i>Cooler Mounting Hardware</i>
1 x 32mm Transmission Cooler (TCC14DP)	4 x 15-17mm Clamps (FMC10)	8 x M6x16 Bolts (SSSS304M616)
1 x Upper Mounting Bracket (TCB601-BR)	8 x Cable Ties (802078)	16 x M6 Flat Washers (FMW6)
1 x Lower Mounting Bracket	2 x M16 Alloy Washers (PLFW16)	8 x M6 Nyloc Nuts (FMN6)
1x 950mm of 3/8" Hose (27061)	2 x M16 to -6 AN Adaptors (DP816-6-M1615)	
1x 1100mm of 3/8" Hose (27061)	1 x -6 AN 90° Hose Tail (DPP0090-06)	
	1 x -6 AN Hose Tail (DPP0001-06)	

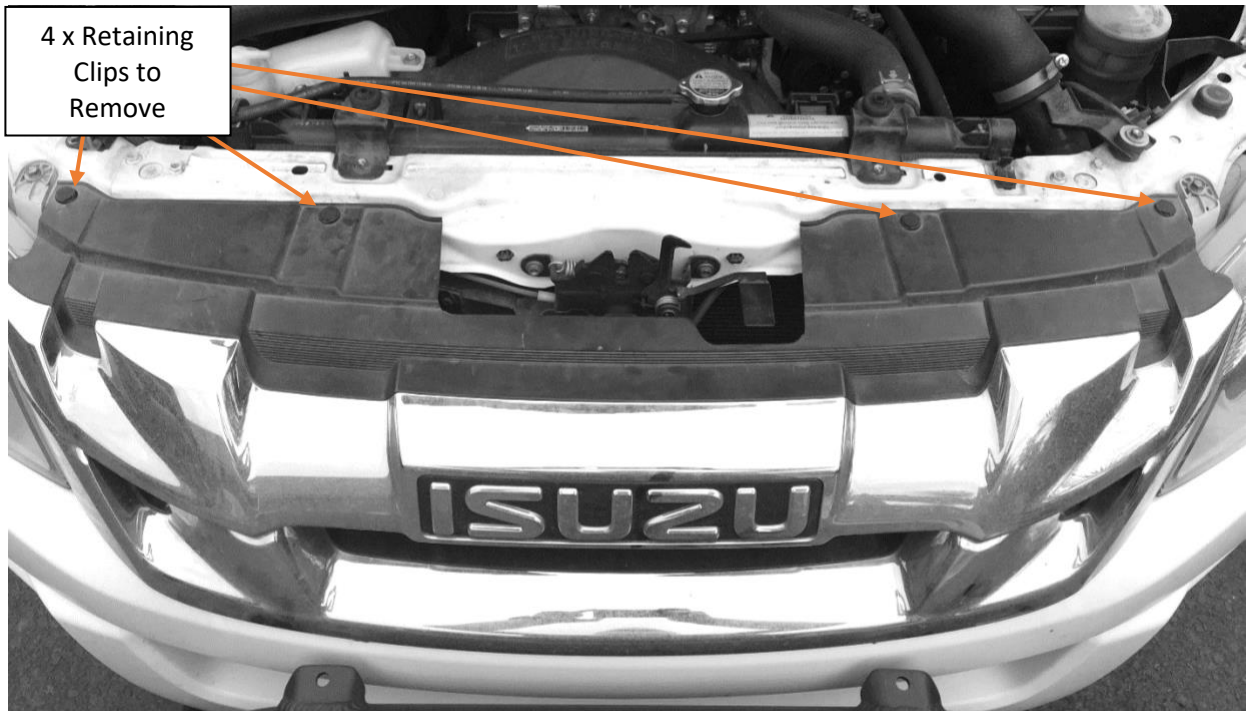


Tools Required:

- Spanners
- Sockets
- Screw Drivers
- Pliers
- Snips/Cutter
- Rags
- Small container for catching oil drips
- We suggest using a thread sealant like Loctite 567 or equivalent.

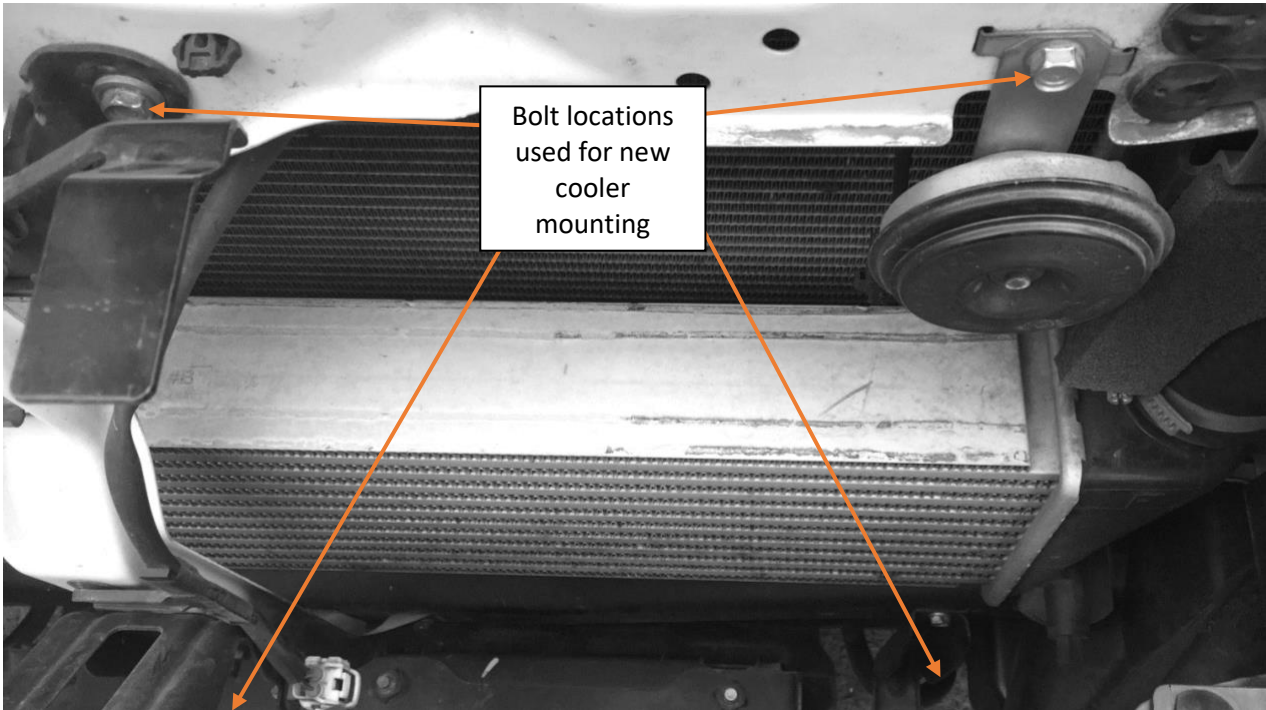
Installation Guide

1. Begin by removing the front grille. It is held in place by 4 clips, a screw in the front center face and two hidden tabs in the bottom corners. Once the clips and screw are removed it pulls forward to unclip from the tabs, please note this can require a fair amount of force to remove, TAKE CARE!



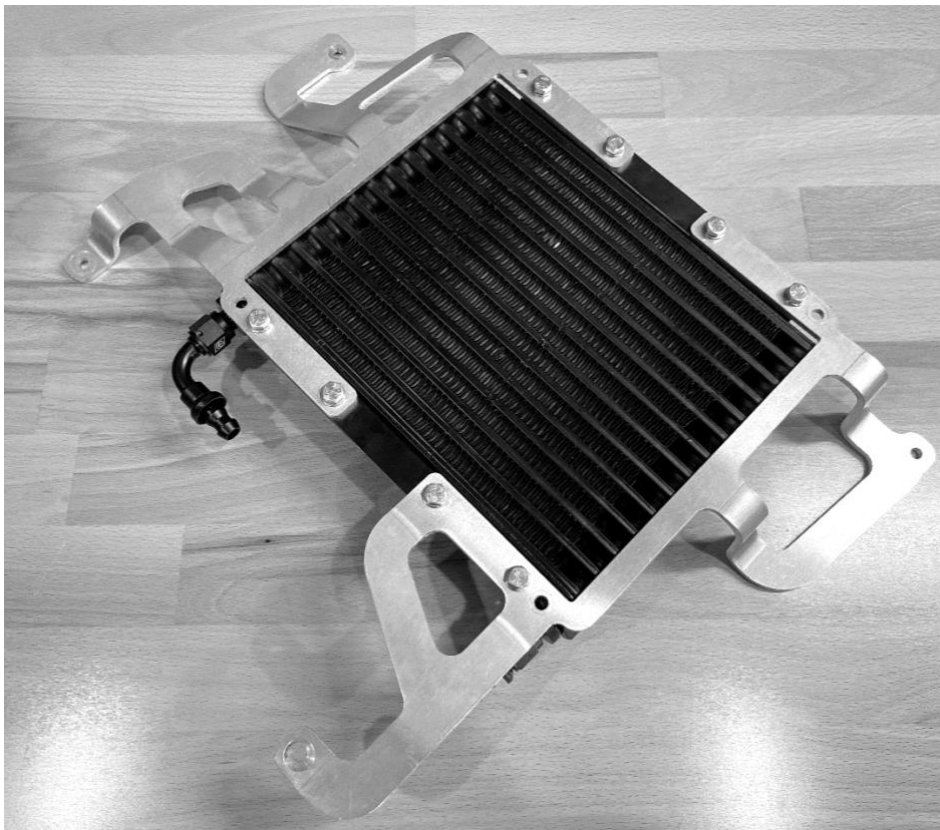
Isuzu D-Max Front of Engine Bay/ Grille

2. Remove the three M6 bolts and one M6 nut on the passenger side of the vehicle as shown in the next image. These are the new transmission cooler bracket mounting locations.

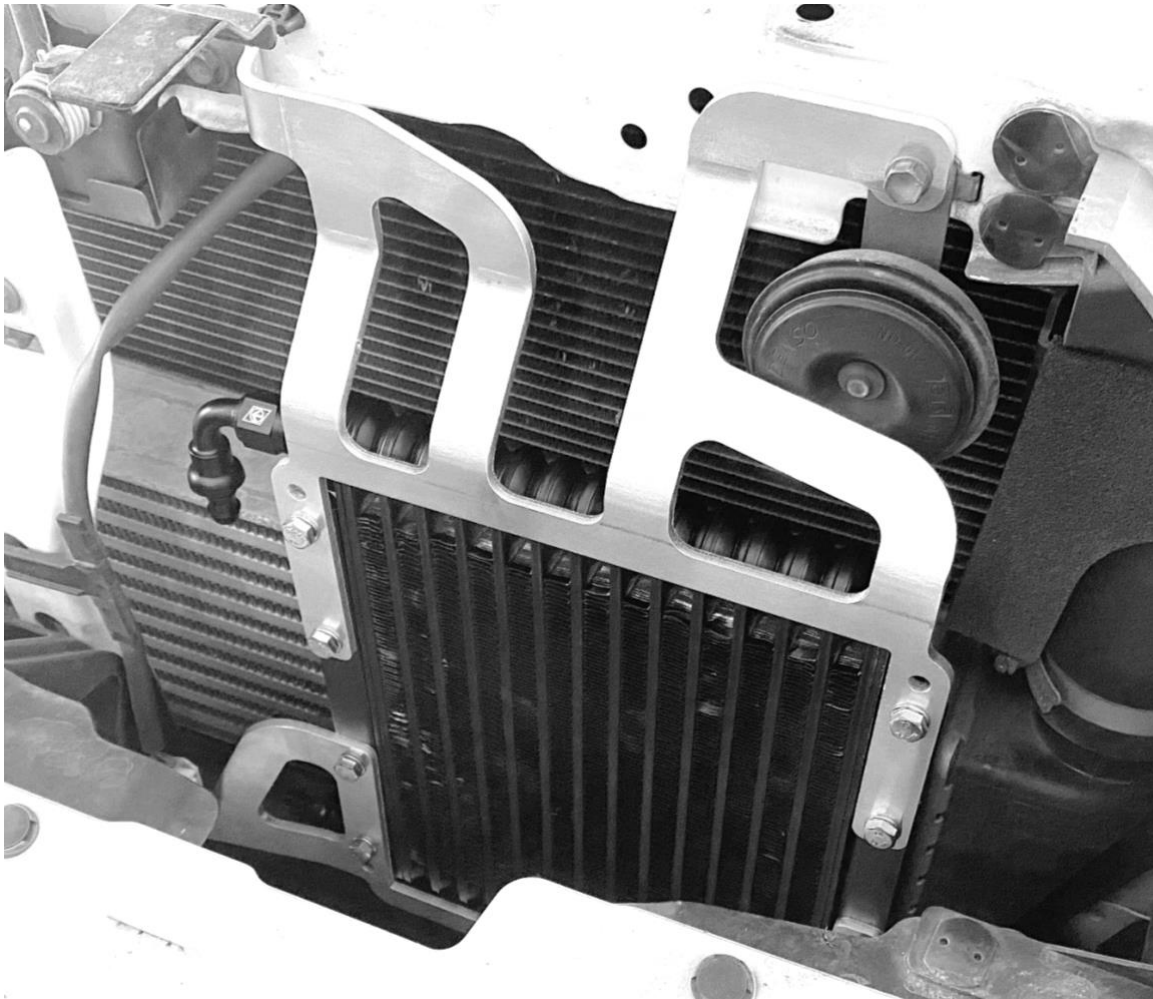


Front grille removed, showing the four mounting locations for the new transmission cooler.

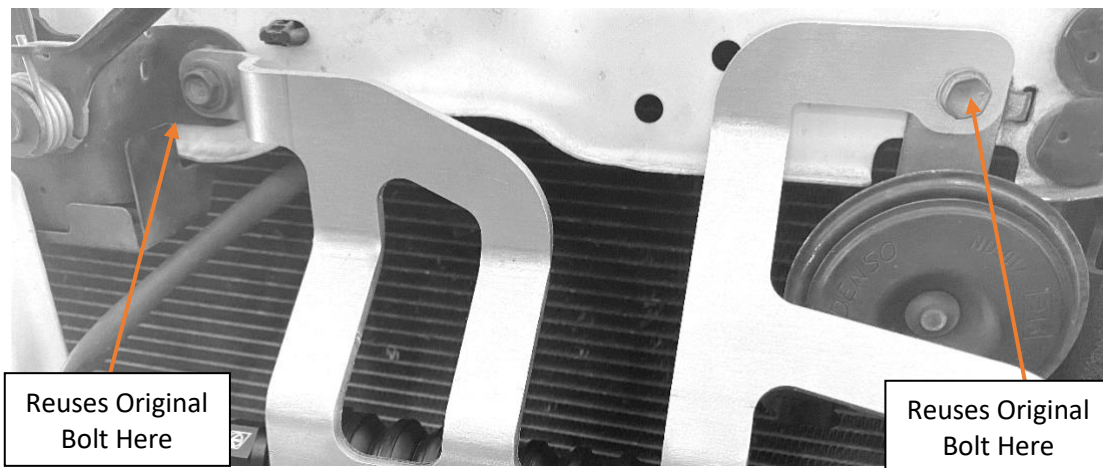
1. Assemble the transmission cooler to the brackets in the kit. The assembly will use all 8xM6 bolts, 16xM6 flat washers and 8xM6 nyloc nuts. Install the M16x1.5 to -6 AN adaptors using an M16 washer under each and using Loctite 567 or similar on the threads. Note, the cooler sits on the rear face of the bracket, with the fittings facing the passenger side of the vehicle. The upper -6 AN fitting gets a 90° elbow hose tail facing down to the ground and the lower -6 AN fitting gets a straight hose tail, again use Loctite 567 or similar on the threads.



Transmission cooler assembly ready to bolt in place

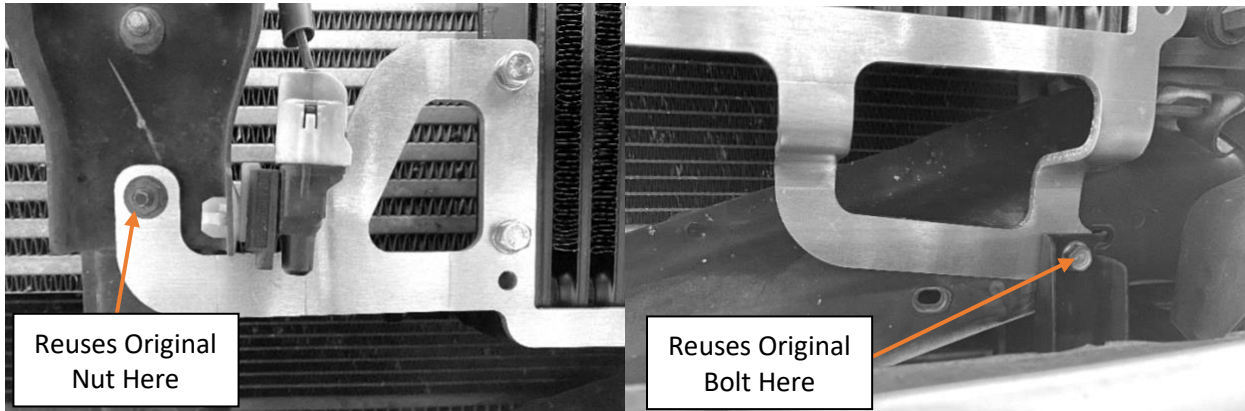


Transmission Cooler Assembly Bolted in Place.



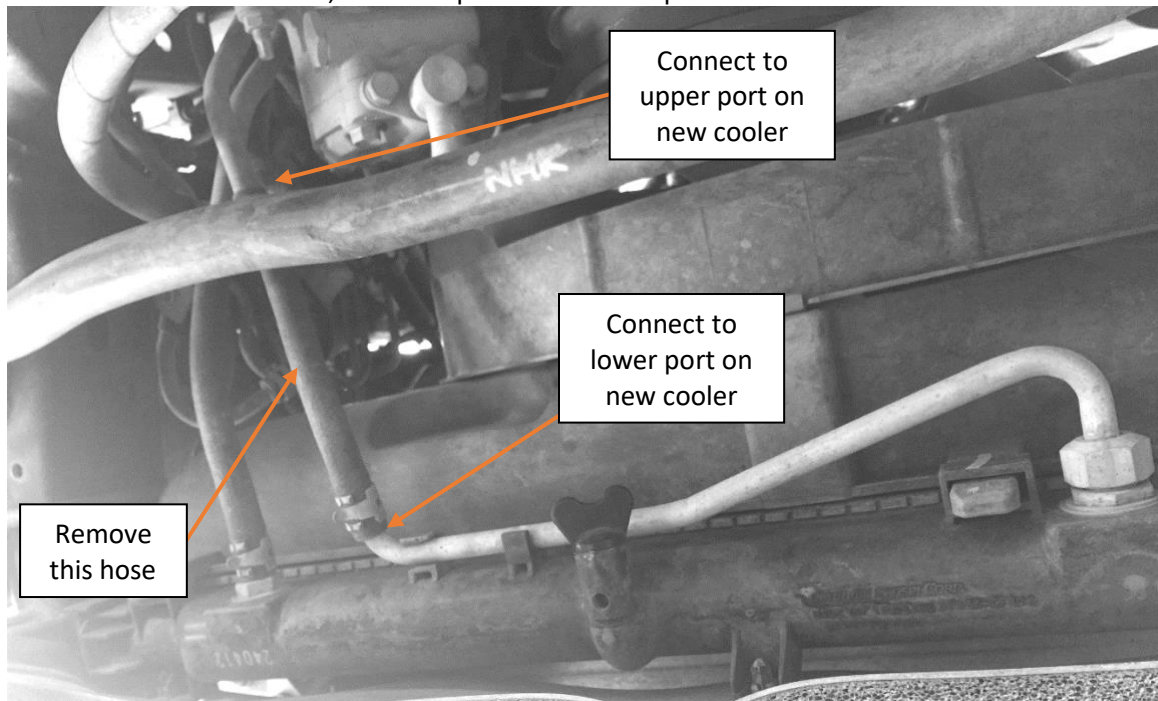
Top Center and Top Outer Transmission Cooler Mount

2. Bolt the new transmission cooler and bracket assembly into the vehicle locating the top off the bolt locations that were removed in step 2. Make sure bracket is over center stud first and behind lower outer bumper trim support bracket. Once all 4 mounting locations are secure, finish securing all 8 M6 cooler bolts.



Lower Transmission Cooler Mounts, center on left, outer on right – outer goes behind factory bracket

3. Connect the 950mm long hose to the lower port on the transmission cooler, secure in place with a clamp.
4. Connect the other end of the 950mm long hose to the outlet port on the stock transmission cooler, located in the bottom of the radiator, secure in place with a clamp.



Stock Transmission Cooler in bottom radiator tank. Remove Hose on the right, it is the return hose from the stock cooler to the transmission.

5. Connect the 1100mm long hose to the top port on the transmission cooler, secure in place with a clamp.
6. Connect the other end of the 1100mm long hose to the return line port that used to connect to the stock transmission cooler, secure in place with a clamp.
7. Use cable ties to secure any loose cooler line to prevent rubbing.
8. The cooler itself holds 500mL of fluid, plus 70mL per meter for the hoses, calculate the total amount of factory specified ATF Transmission Fluid that needs to be added to the transmission.
9. Reinstall the grille in reverse as how it was removed in step 1.



End of Installation Guide