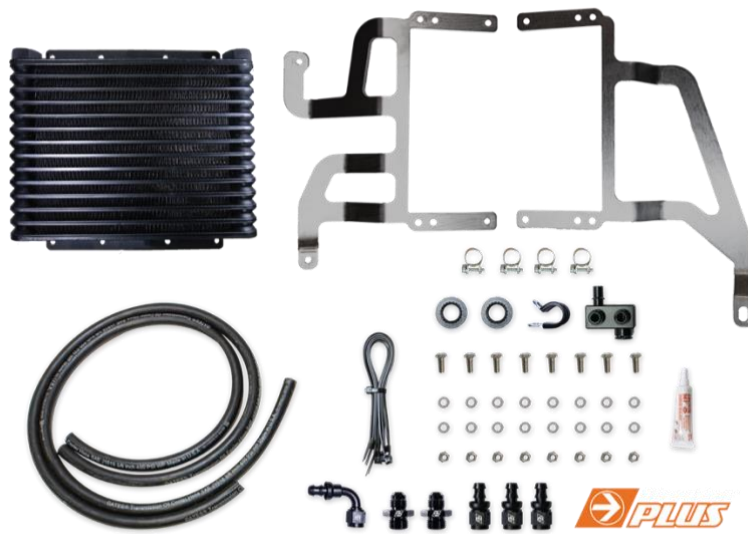


Transchill Arctic Black Installation Guide for Holden Colorado RG 2.8L

This document is to be used as a guide for the installation of the **Transchill Arctic Black Transmission Cooler Kit (TCB602DPK)** to a **2012-2019 Holden Colorado RG 2.8L Diesel with automatic transmission**. It is recommended that the installation of this product be carried out by a competent qualified mechanic.

Included in the kit



1x 32mm Transmission Cooler	TCC14DP
1x Upper Mounting Bracket	TCB602-BR
1x Lower Mounting Bracket	TCB602-BR
1x 950mm of 3/8" Hose	7212-381BK
1x 1100mm of 3/8" Hose	7212-381BK
4x 15-17mm Mini EFI Clamps	FMC10
8x 200mm Cable Ties	802078
1x 16mm Insulated P Clip	PCL16
8 x M6x16 Bolts	SSSS304M616
16 x M6 Flat Washers	FMW6
8x M6 Nyloc Nuts	FMN6
2x M16 Sealing Washers	PLFW16
2x M16 Male to -6 AN Male Adaptors	DP816-6-M1615
1x -6 AN Female 90° to 3/8" Male Hose Tail	DPP0090-06
1x Billet Adaptor Block	TC602-ADP
3x -6 AN Female to 3/8" Male Hose Tail	DPP0001-06
1x 6mL Loctite 567	567-6ML-LOC

*Kit contents are subject to change based on component availability and/or refinement

Mounting Location

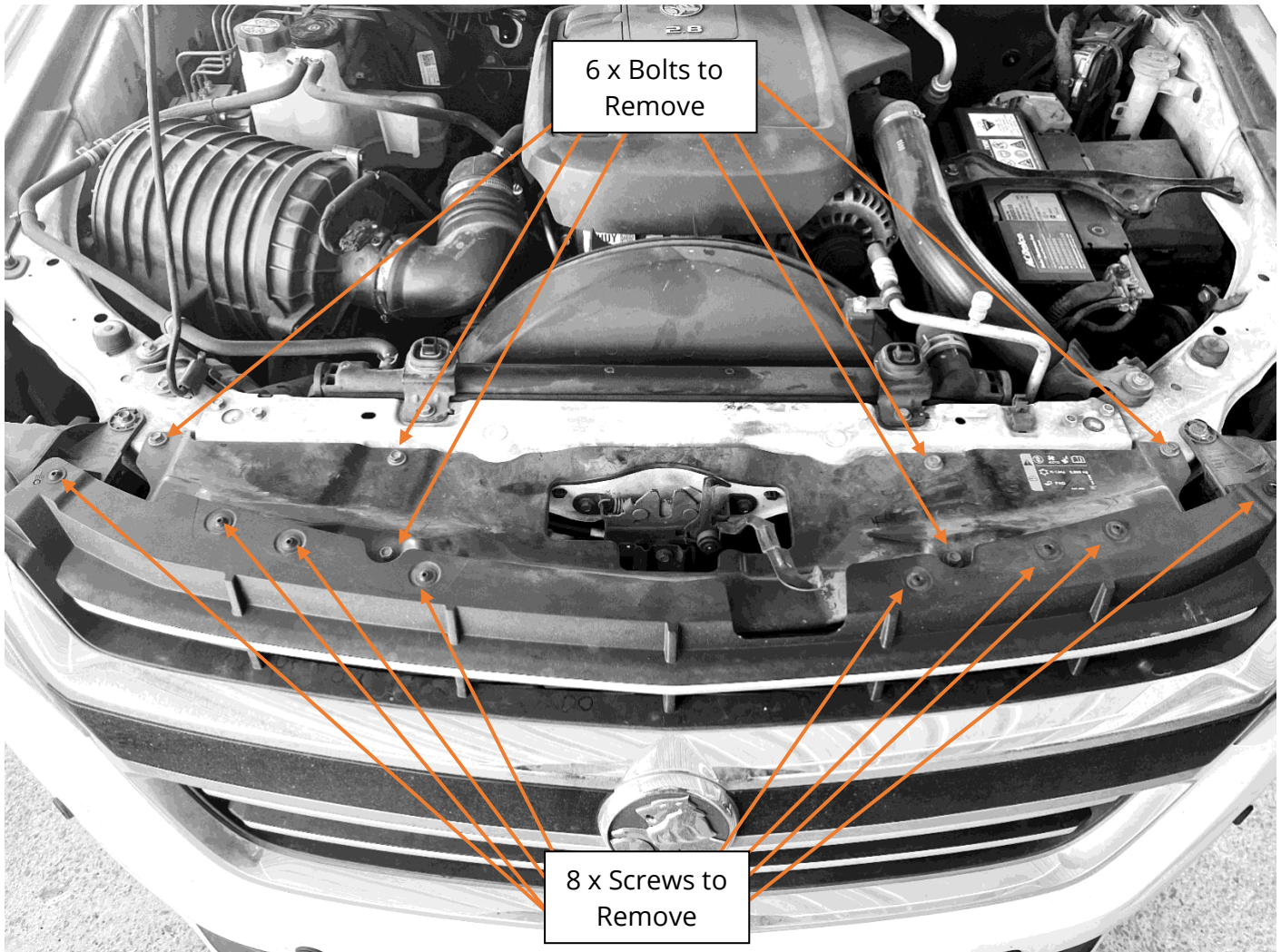


Tools Needed:

- 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.

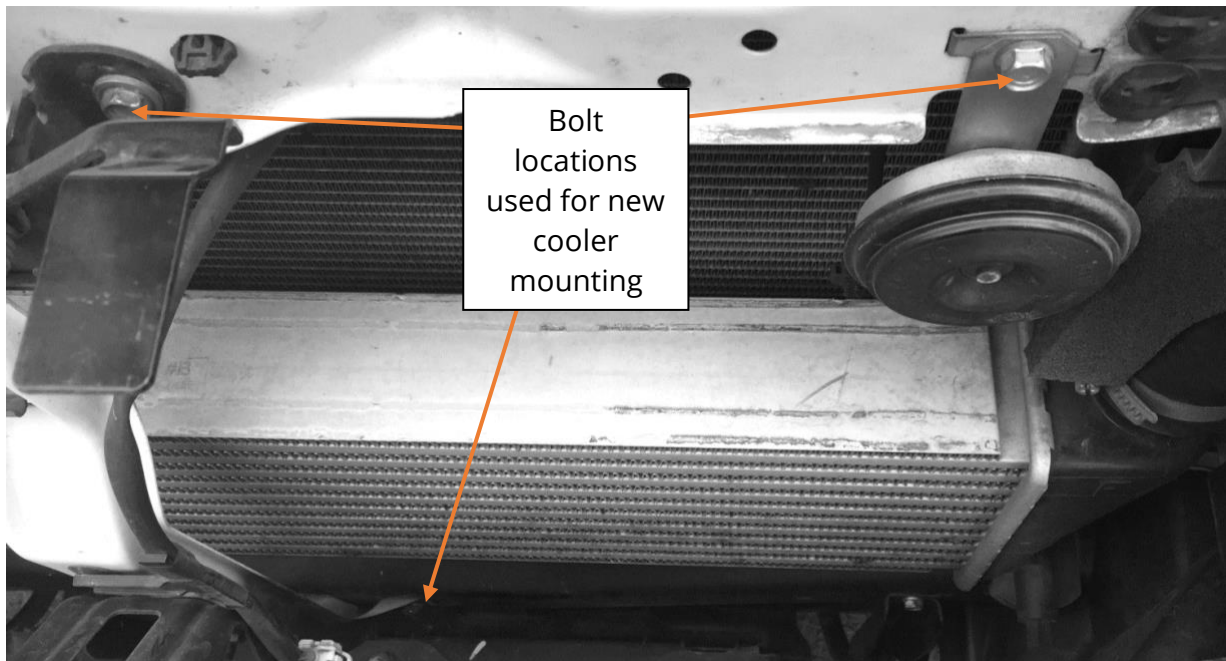
Installation Guide

1. Begin by removing the radiator divider plate. It is held in place by six (6) bolts and eight (8) screws. Once the bolts and screw are removed. The plate can be lifted and removed from the vehicle.



Holden Colorado Front of Engine Bay/ Grille

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

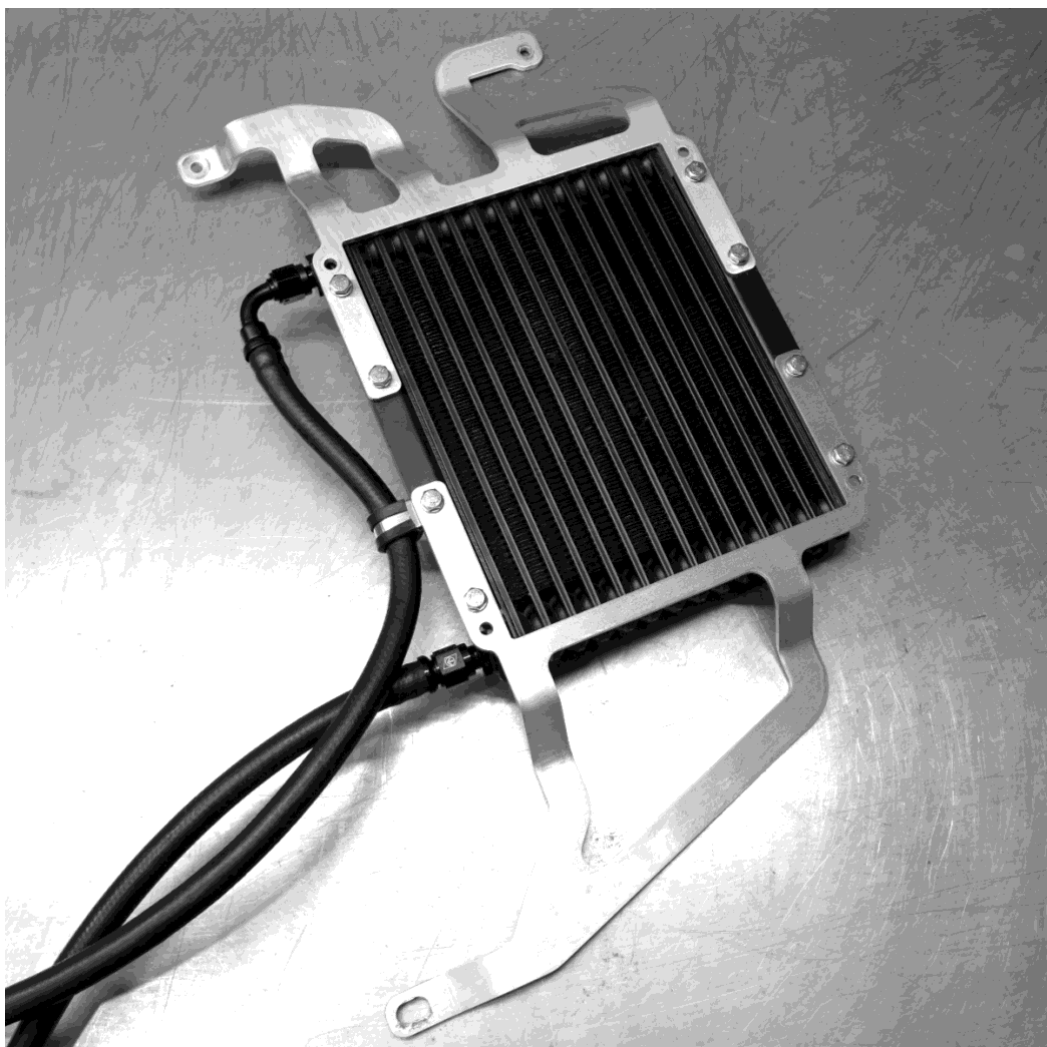


Front grille and radiator divider plate removed, showing the three mounting locations for the new transmission cooler.

3. Install the M16x1.5 to -6 AN adaptors using an M16 washer under each and using Loctite 567 or similar on the M16 threads. Be careful not to overtighten.

Note: It can help to fully read these instructions first and pre-assemble the hoses to the correct ports and the P-clip and then just mount the completed assembly, just don't tighten any of the M6 bolts on the cooler fully, leave them loose till it's all mounted correctly.

4. Assemble the transmission cooler onto the brackets in the kit. The assembly will use all 8xM6 bolts, 16xM6 flat washers and 8xM6 nyloc nuts. The cooler sits on the rear face of the bracket, with the fittings facing the Driver's 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.



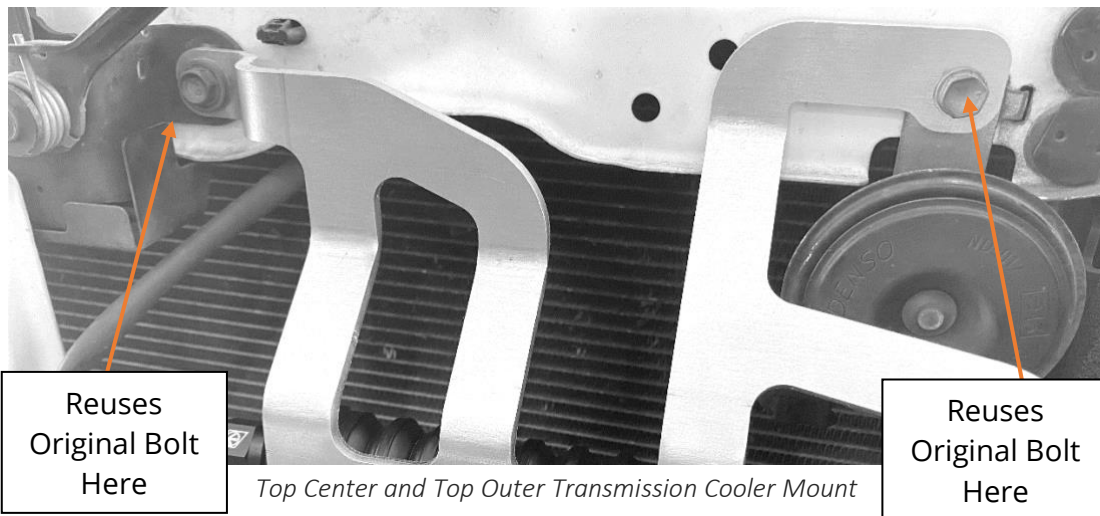
Transmission cooler assembly ready to bolt in place



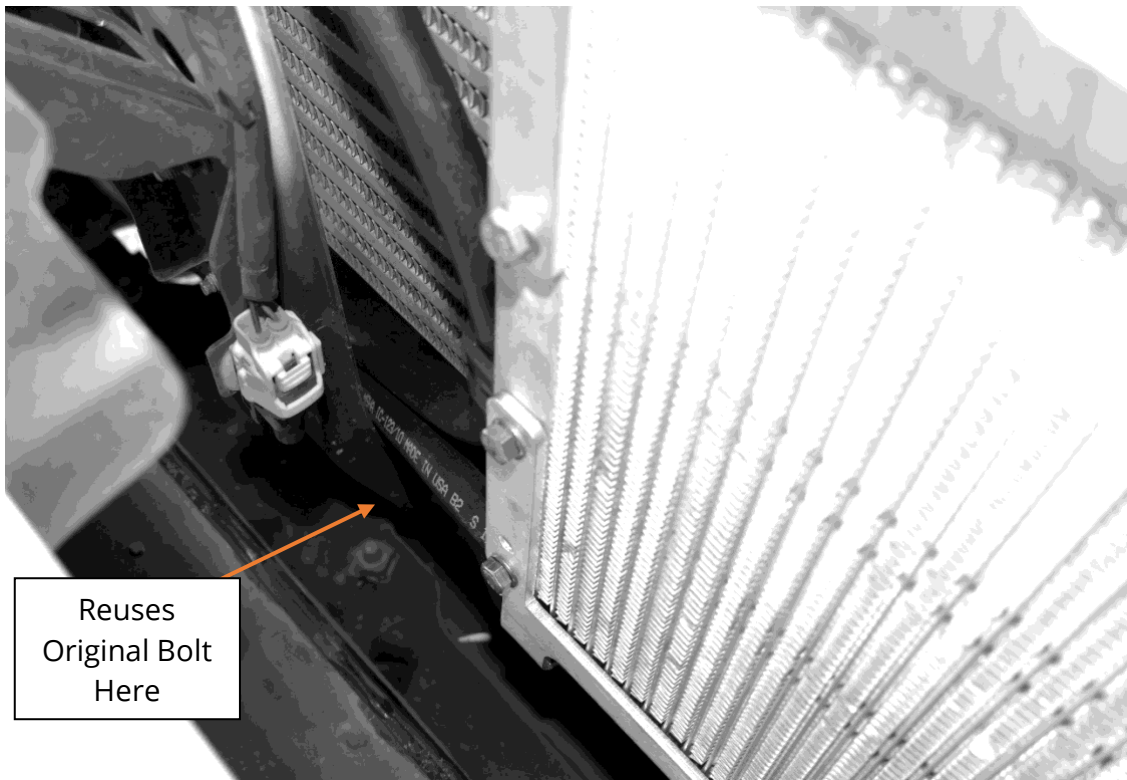
Image shows P-clip mount location and hose path, viewed from behind before being installed (to show detail)



Transmission Cooler Assembly Bolted in Place.

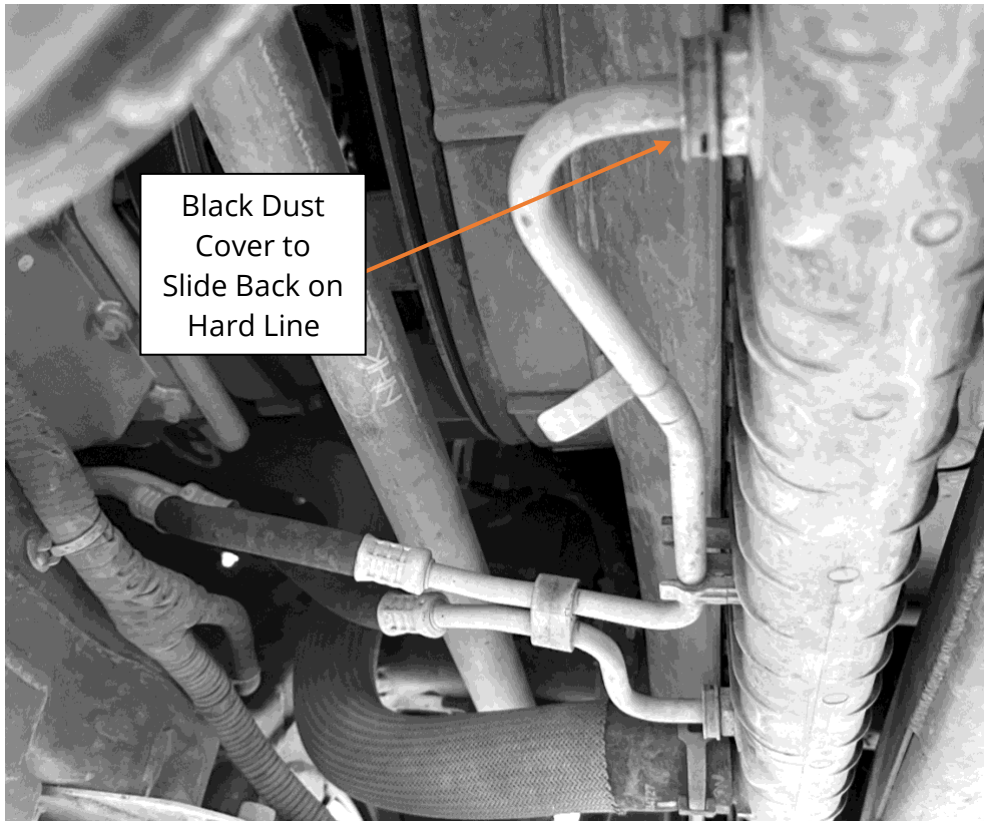


5. Bolt the new transmission cooler and bracket assembly into the vehicle locating the top off the bolt locations that were removed in step 2. Once all 3 mounting locations are secure, finish securing all 8 M6 cooler bolts.



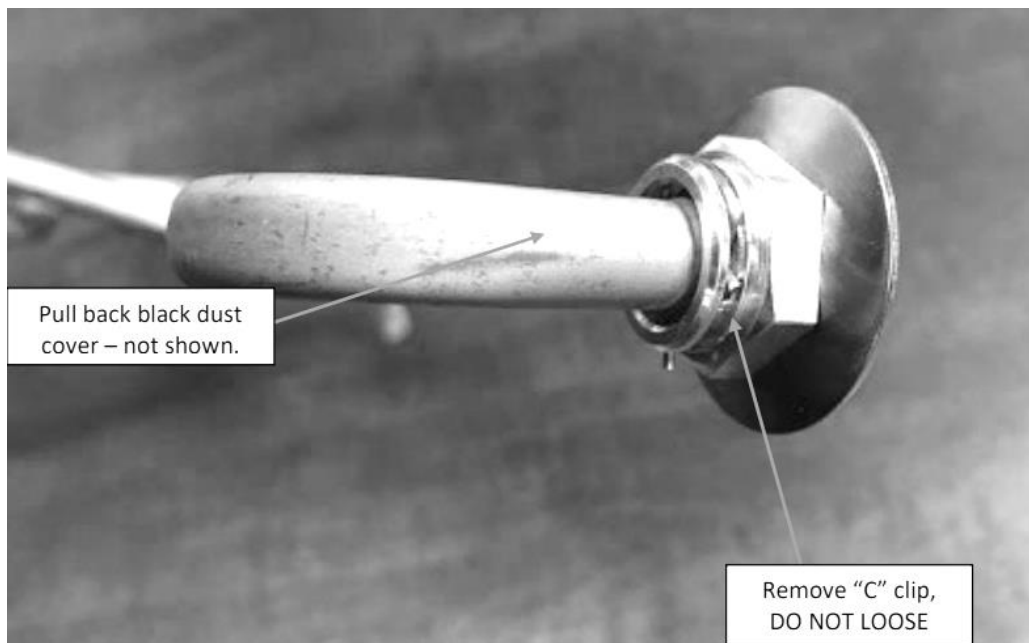
Lower Transmission Cooler Mount

6. Connect the 950mm long hose to the lower port on the transmission cooler, secure in place with a clamp.
7. Connect the 1100mm long hose to the top port on the transmission cooler, secure in place with a clamp.
8. If you didn't do it in step 3, Use the insulated P Clip to secure the line from the top port of the new transmission cooler, it uses the third M6 bolt down on the side closest to the center of the vehicle.



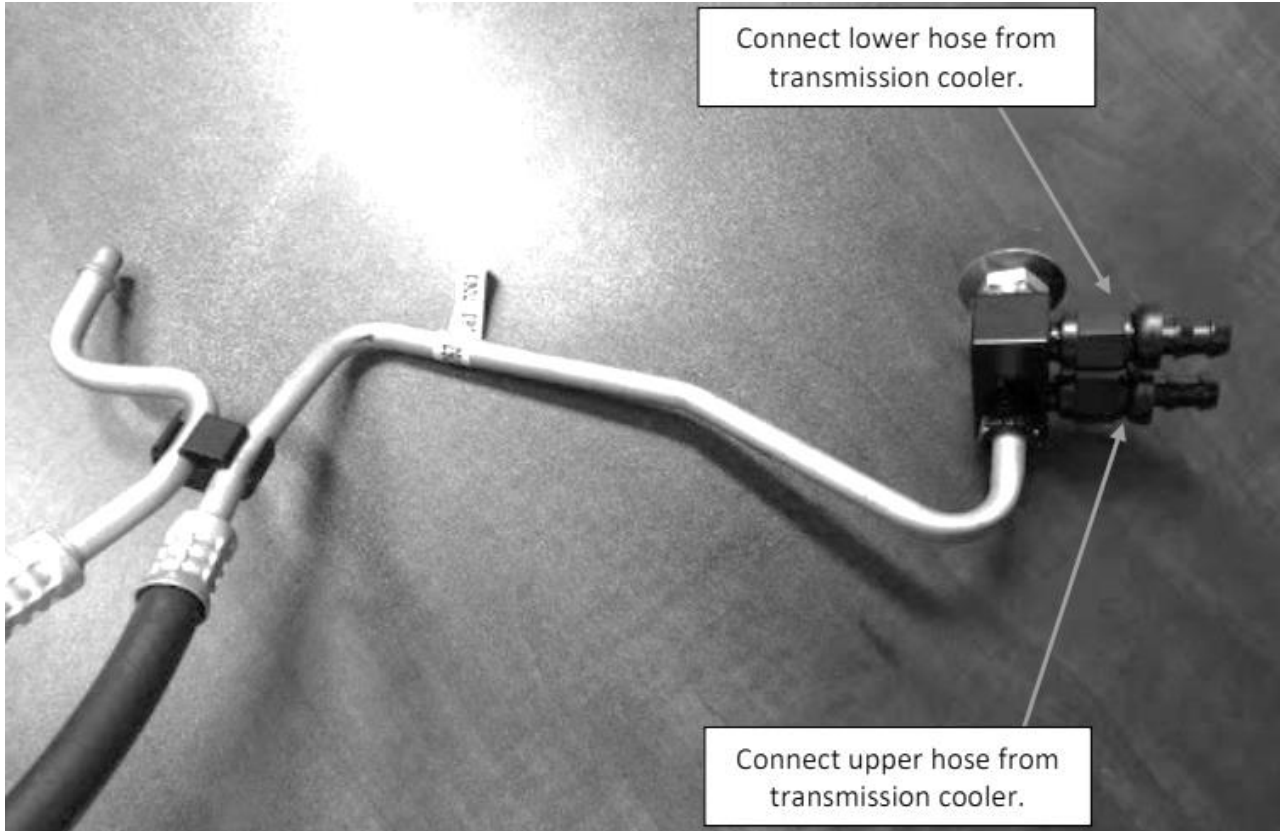
Factory Transmission Cooler Line in Bottom of Radiator Tank.

9. The factory transmission cooler is connected to the rear face of the radiator in the bottom tank. The line to disconnect is on the driver's side.
10. Pull back the black dust cover so it slides down the hard line to give access. Underneath this is a small "C" clip, this is what secures the hard line to the radiator. Disconnect the driver's side transmission cooler pipe from the bottom of the radiator.



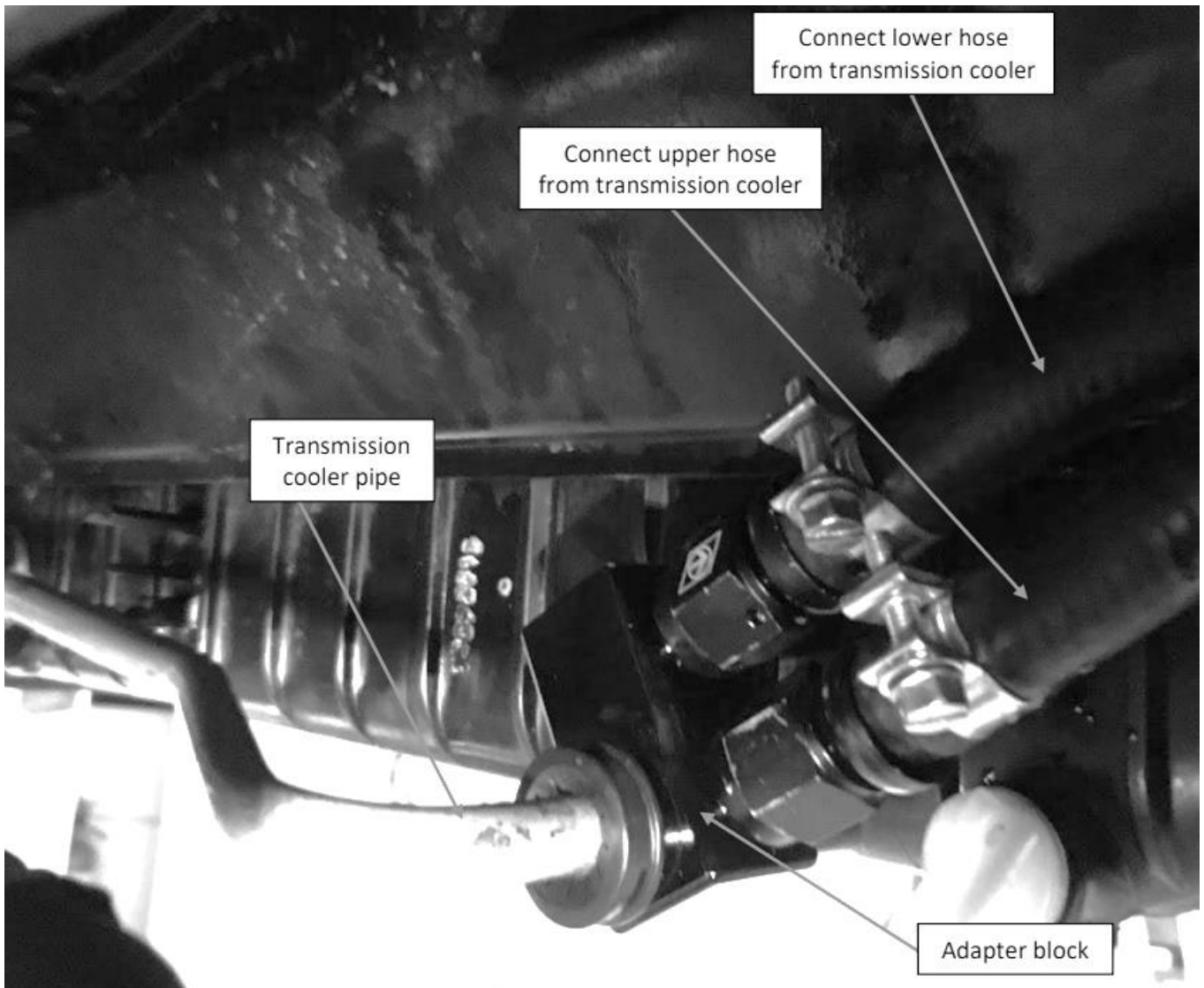
Factory Transmission Cooler Line Detail Showing "C" Clip Location – NOTE: Do Not Remove Fitting from Radiator!

11. Install the supplied billet adaptor block into the radiator where the factory transmission hard line was just removed.
12. Reinstall the transmission cooler pipe into the adaptor block as shown in the following image. Make sure that the "C" clips have engaged the barbs and cannot be pulled out.



Example of how the billet adaptor block, factory hard line and radiator end tank fitting connect

13. Measure and cut to length then use one of the -6 to 3/8" hose barbs to connect the remaining end of the 950mm long hose to the outlet port on the billet adaptor block, secure in place with a clamp. Ensure to use Loctite 567 or similar on the alloy threads.
14. Measure and cut to length then use the last -6 to 3/8" hose barbs to connect the remaining end of the 1100mm long hose to the return port on the billet adaptor block, secure in place with a clamp. Ensure to use Loctite 567 or similar on the alloy threads.



New billet adaptor block in place, original black rubber dust seal reinstalled. New lines to cooler installed and secured.

15. 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.
16. Use cable ties to secure any loose cooler line to prevent rubbing.
17. 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 and top up as per factory guidelines.
18. Reinstall the grille in reverse as how it was removed in step 1.

End of Installation Guide