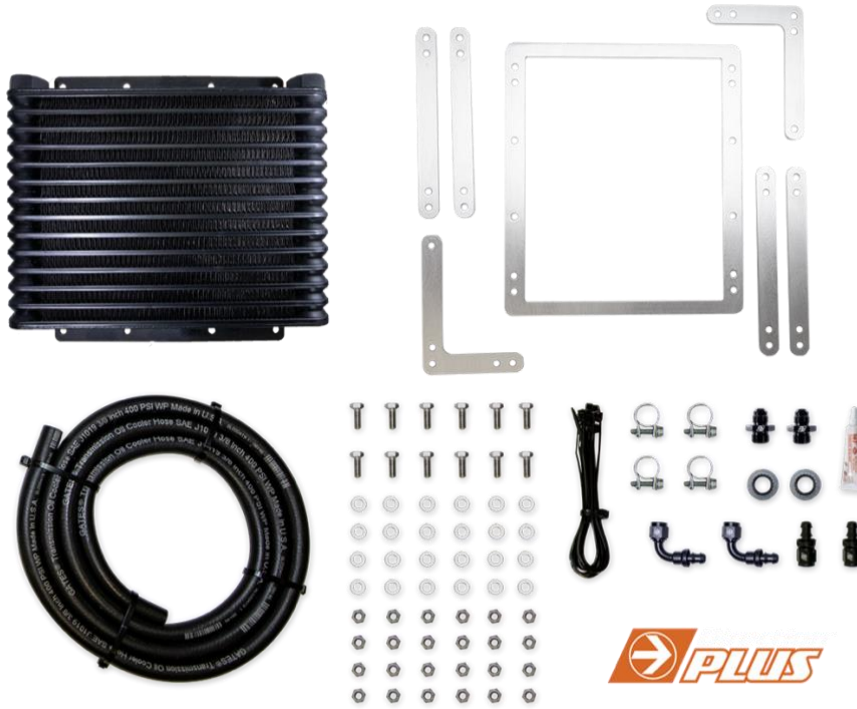




Direction Plus Universal Arctic Black Transmission Cooler Kit Installation Guide

This document is to be used as a guide for the installation of the Direction Plus Universal Arctic Black Transmission Cooler Kit to any vehicle with 3/8" automatic transmission lines. **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)	12 x M6x16 Bolts (SSSS304M616)
1 x Cooler Mounting Bracket INC 4 x Straight Mounting Bracket & 2 x Angled Mounting Bracket (TCBUNI-BR)	8 x Cable Ties (802078)	24 x M6 Flat Washers (FMW6)
	2 x -6 to M16x1.5 Adaptors (DP816-6-M1615)	12 x M6 Nyloc Nuts (FMN6)
	2 x M16 Alloy Washers (PLFW16)	
1x 3m of 3/8" Hose (7212-381BK)	2 x -6 to 3/8" 90° Tail (DPP0090-06)	
	2 x -6 to 3/8" Tail (DPP0001-06)	
	1 x 5mL Loctite 567 (567-6ML-LOC)	

**MOUNTING LOCATION
TRANSCHILL TRANSMISSION OIL COOLER KIT
TCBUNIDPK**

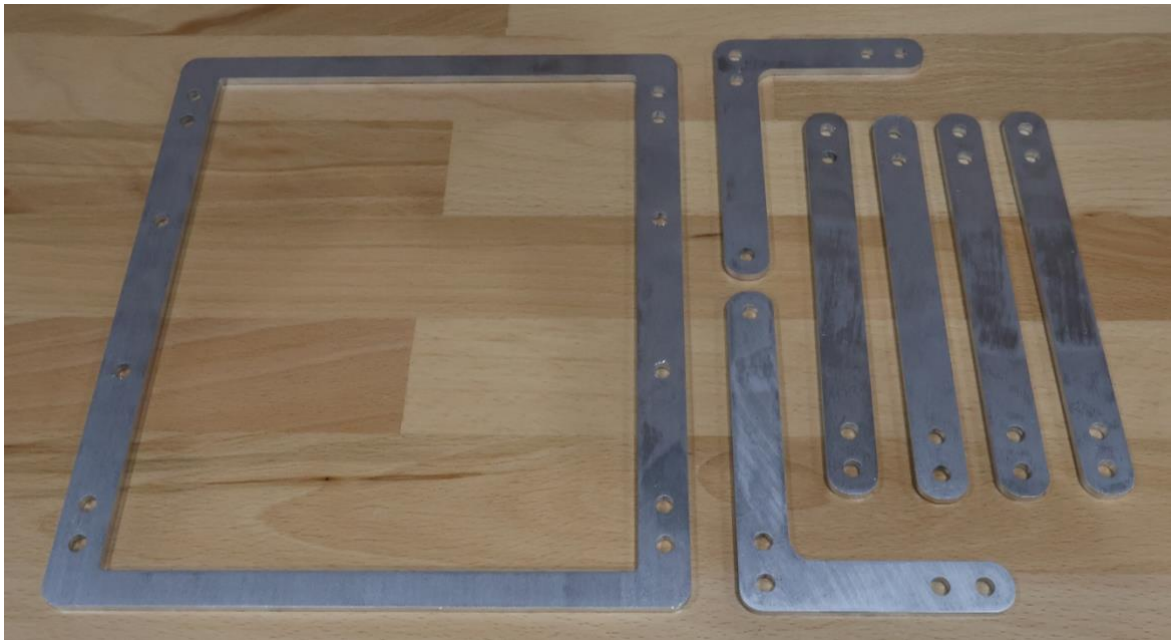


Tools Needed:

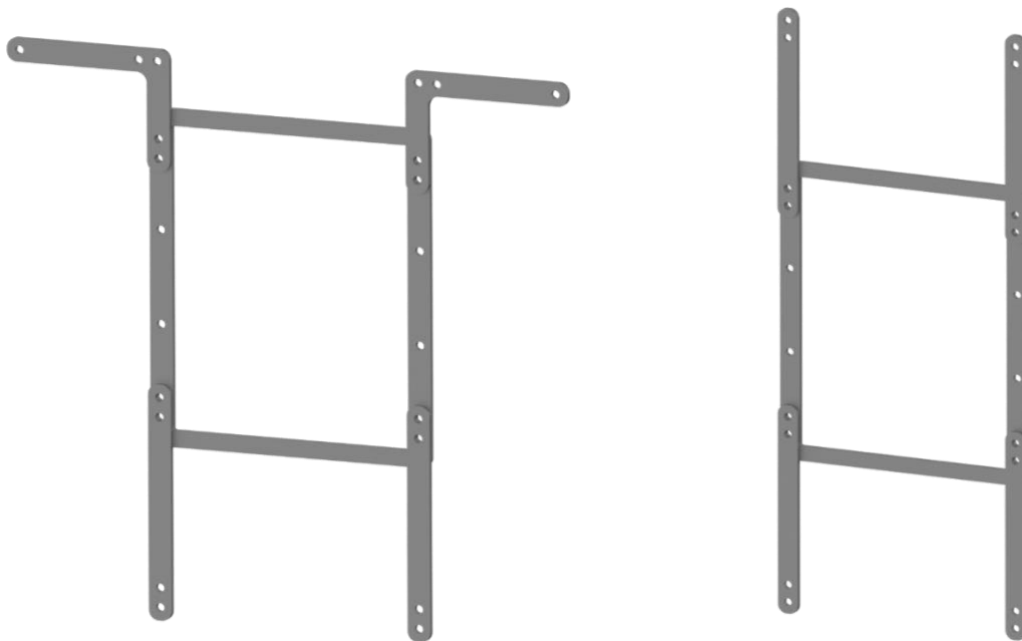
- Spanners
- Sockets
- Screw Drivers
- Pliers
- Snips/Cutter
- Rags
- Small container for catching oil drips.

Installation Guide

1. Begin by removing any trim pieces that are in the way of mounting the bracket to the front of the vehicle.
2. Remove any underbody protection in the way of gaining access to the factory transmission lines.
3. Identify the desired location for the new transmission cooler mounting location. Make sure all mounting points are on the body, **Do Not Mount to The Chassis or Frame**.
4. The supplied angled and straight mounting brackets can be bent as needed to enable the mounting of the main cooler mounting bracket and transmission cooler to the vehicle. Try to avoid sharp bends in the brackets as this will weaken and potentially crack the material.



New transmission cooler mounting bracket (left) and included straight and angled brackets.



Examples of angled and straight mounting brackets, play around with locations to get what works best for your installation.

5. Secure the M16x1.5 threaded adaptors to the ports of the transmission cooler, making sure to use an aluminium 16mm washer under each and Loctite 567 (or similar) to secure them in place.



M16x1.5 adaptor and alloy washer secured to cooler with Loctite 567

6. The transmission cooler is designed to be mounted so the ports are on the side. The lower port is the inlet, the upper port is the outlet, this ensures the cooler will always be full to maximize cooling efficiency.
7. Use the M6x16 Bolts to secure the transmission cooler to the bracket as well as any mounting brackets used. Make sure to use a flat washer under the head of every bolt and nut.



Example of Transmission Cooler assembly

8. Check the cooler is securely mounted.
9. Identify which hose tails are to be used, use Loctite 567 to secure in place.
10. Locate the factory cooler lines, if they run through the radiator, connect to new transmission cooler from the outlet of the factory cooler.



Examples of straight and 90° hose tails installed on M16x1.5 to -6 adaptors.

11. The inlet / supply line to the new cooler is the lower port. Push the hose on, use a clamp at the end of the hose where it connects to the supply line in the factory system. The push lock fitting on the new cooler does not require a clamp.
12. The outlet / return line from the new cooler is the upper port. Push the hose on, use a clamp at the end of the hose where it connects to the return line in the factory system. The push lock fitting on the new cooler does not require a clamp.



13. Check that all parts are securely mounted and there is no rubbing or potential contact with moving parts.
14. The cooler itself holds 500mL of fluid, plus 70mL per 1m of hose, calculate the total amount and top up the transmission using the correct factory specified transmission fluid.
15. Start vehicle and check transmission fluid level, follow manufacturers instructions for fluid type and level check procedure.
16. Reinstall any trim pieces that were removed for the install as well as any underbody protection that was removed in step 1 & 2.
17. Test drive and inspect for leaks, ensure transmission gets up to operating temperature during this test drive.

End of Installation Guide