

External Transmission Cooler Kit Z18064

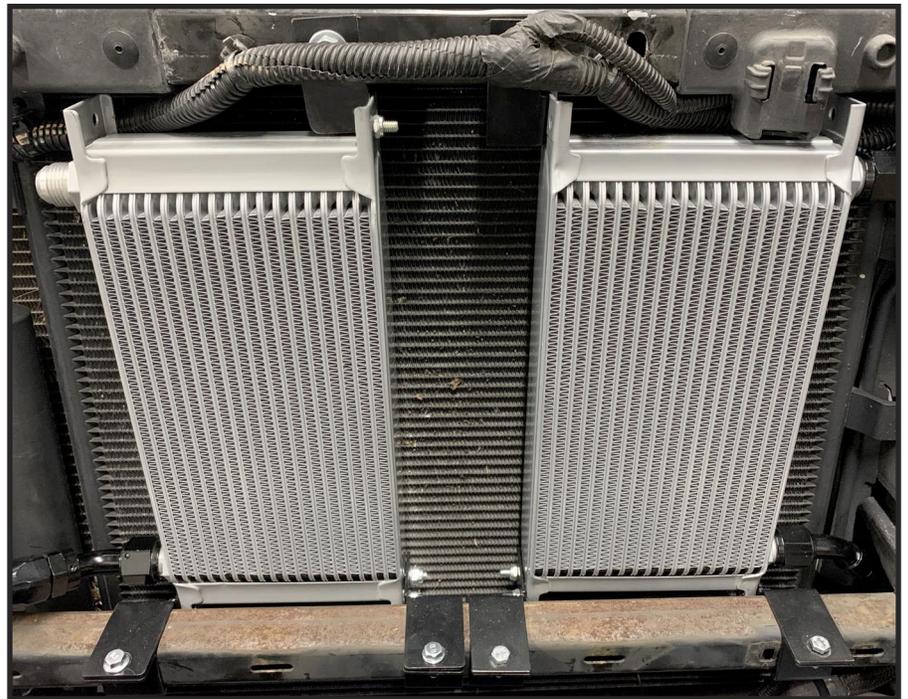
Installation instructions for Northern Radiator external transmission cooler kit. 2007-2011 Jeep Wrangler JK.

Kit Includes:

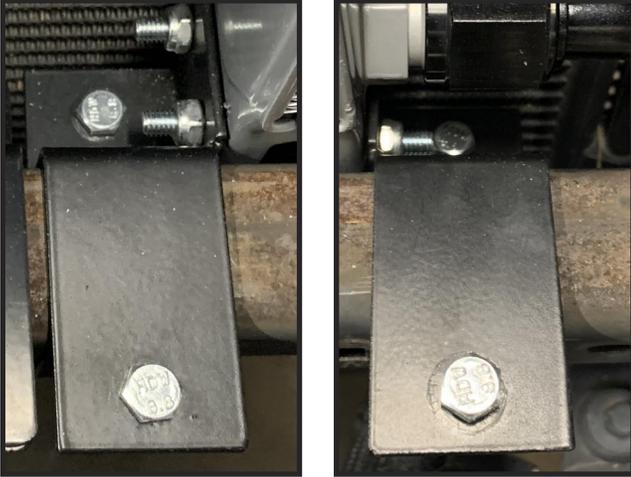
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| (1) Instruction Sheet | (6) M6 Nylon Lock Flange Nut |
| (1) 19 Plate Oil Cooler | (11) M6 x 15 x 1.0 Bolt |
| (1) Bracket Kit, Consisting of 6 Brackets | (1) Plastic Trim Fastener |
| (2) 45° 10AN x 3/8" Barbed Push On Fittings | (1) 3/8" Black Rubber Transmission Oil Hose |
| (2) 90° x 3/8" Barbed Push On Fittings | (6) Hose Clamps, Fit Over OD of Transmission Oil Hose |



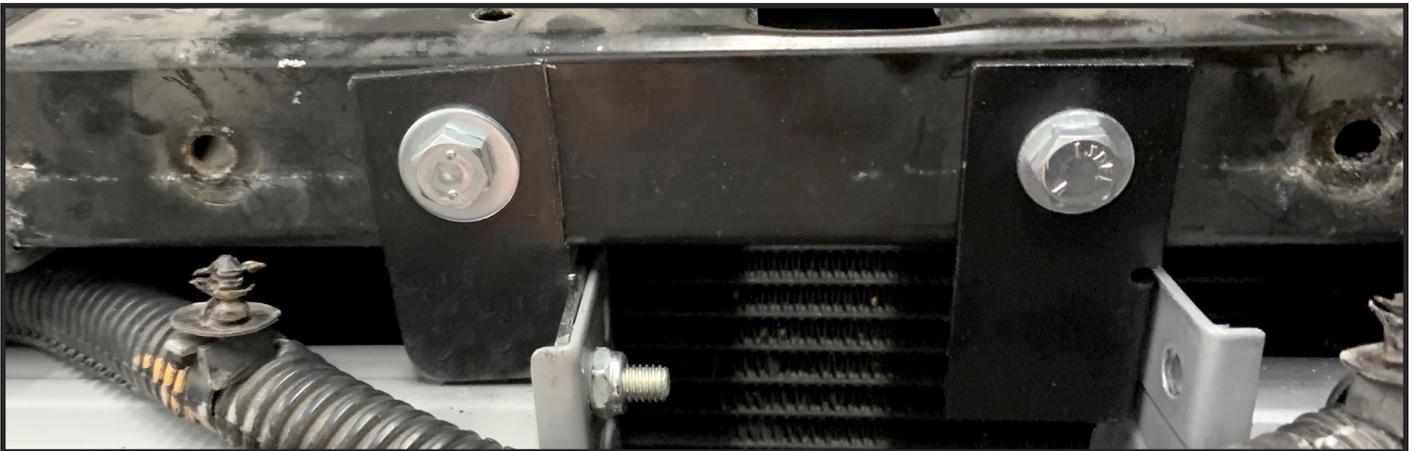
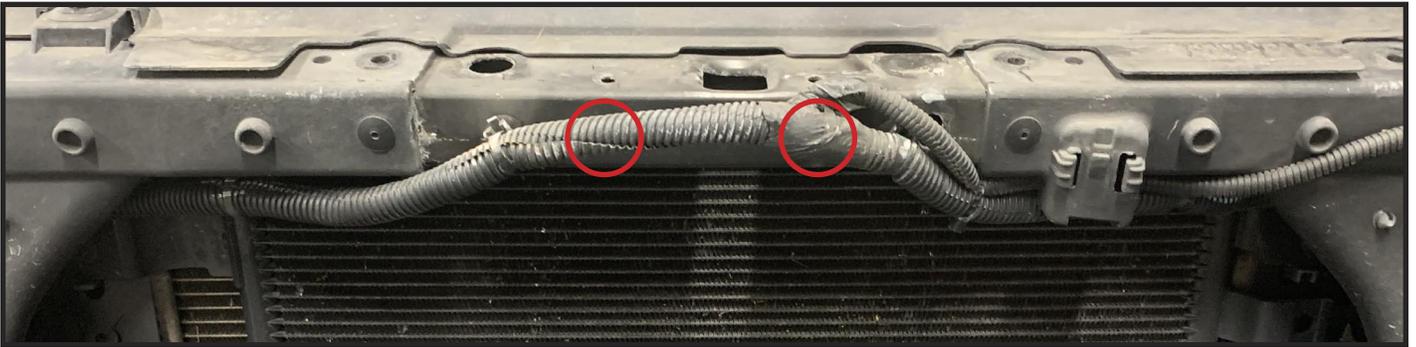
1. Disconnect the turn signal light connectors. Remove the grille and remove wiring harness as needed from the frame of the Jeep. Other components, shrouds, etc., may need to be removed depending on your exact model.
2. If installing only a transmission oil cooler, any location in front of the radiator will be fine. If installing both a transmission oil cooler and an engine oil cooler, install the transmission oil cooler on the driver side.
3. Install the brackets on the bottom of the cooler with 2 bolts and 2 nuts on each side. The tabs on the brackets will point towards the bumper of the vehicle. The fittings should point toward the fenders of the vehicle. The cooler can be installed in any direction. Inlet vs outlet is also not defined.
4. Install the top bracket onto the top corner of the cooler without the fitting with the single hole directed up with 2 bolts and 2 nuts.



5. Loosely install the bottom half of the bottom brackets around the frame and connect with 2 bolts. The bottom brackets have the nuts welded on them.



6. There are 2 holes behind this wiring harness near the middle of the frame approximately where the red circles are that can be used for mounting the coolers. If installing only a transmission oil cooler, any location in front of the radiator will be fine. If installing both an engine oil cooler and transmission oil cooler, install the engine oil cooler on the passenger side.



7. Place this bracket inside the frame behind the appropriate hole to use to tighten the top bracket for the cooler.
8. Cut the rubber transmission oil hose provided with the kit in half to create 2 lines.
9. Add one 90 degree barbed fitting to each line and secure each with a hose clamp. This end will connect to the transmission fluid lines.
10. To the other end of each line, add one 45 degree fitting with 10AN and secure each with a hose clamp. This end will connect to the cooler.
11. The transmission fluid lines (circled in red) will be directly behind the radiator closer to the driver side. Cut **ONE** line and connect one of the new hoses to each side of the cut line using the barbed 90 degree fittings and a hose clamp. Leave everything loosely installed at this point.
12. Route both lines to the cooler and loosely connect the lines with the 45 degree fittings to the cooler. Inlet vs outlet of the cooler is not defined and oil can flow either direction. Ensure that lines are not kinked, will not chafe against anything, and will not be exposed to anything sharp.
13. Once everything is routed and fitting well, snug up all fittings and brackets. When tightening the hoses, be sure to use 2 wrenches to prevent damage to the cooler.
14. Some applications may need to relocate the Ambient Air Temperature Sensor. Use the provided plastic trim fastener and pick an open hole to relocate sensor as pictured below.
15. Check for leaks.
16. Check transmission fluid level with the vehicle running so that the new cooler and lines fill. Top off as needed with the correct transmission fluid for the system. It will take about a quart.
17. Reinstall the wiring harness, grille, turn signals, and any other components that were removed during install.

