

External Engine Oil Cooler Kit Z18063

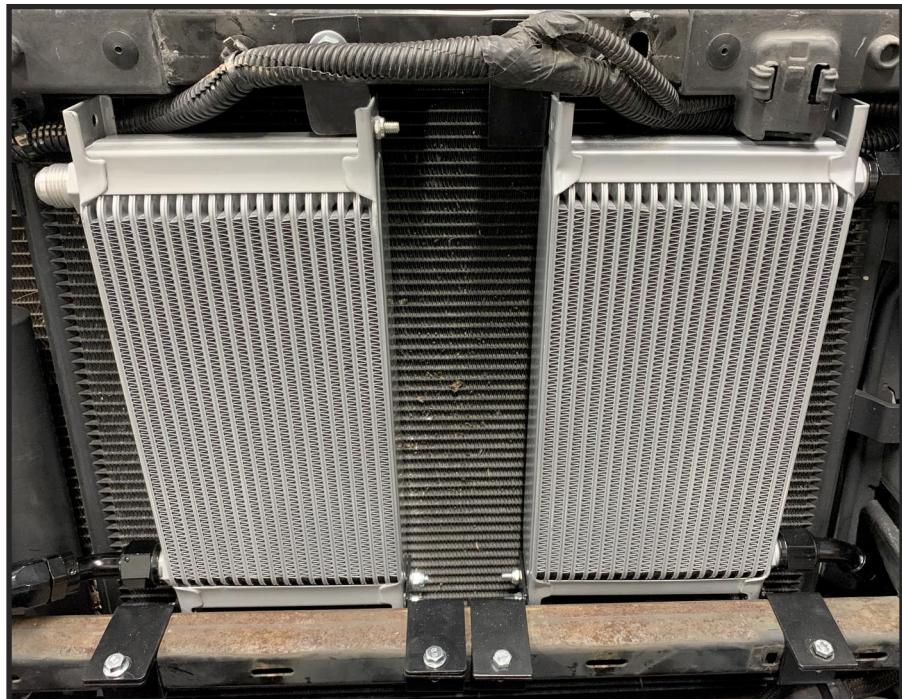
Installation instructions for Northern Radiator external engine oil cooler kit. 2007-2011 Jeep Wrangler JK.

Kit Includes:

- (1) Instruction Sheet
- (1) 19 Plate Oil Cooler
- (1) Bracket Kit - Consisting of 6 Brackets
- (1) AN10 / AN8 Oil Sandwich Plate Adaptor
- (6) M6 Nylon Lock Flange Nut
- (2) Hose Assembly (Braided) with 10AN 45° & 10AN 90° Fittings Attached
- (1) M6 X 15 X 1.0 Bolt
- (1) Plastic Trim Fastener



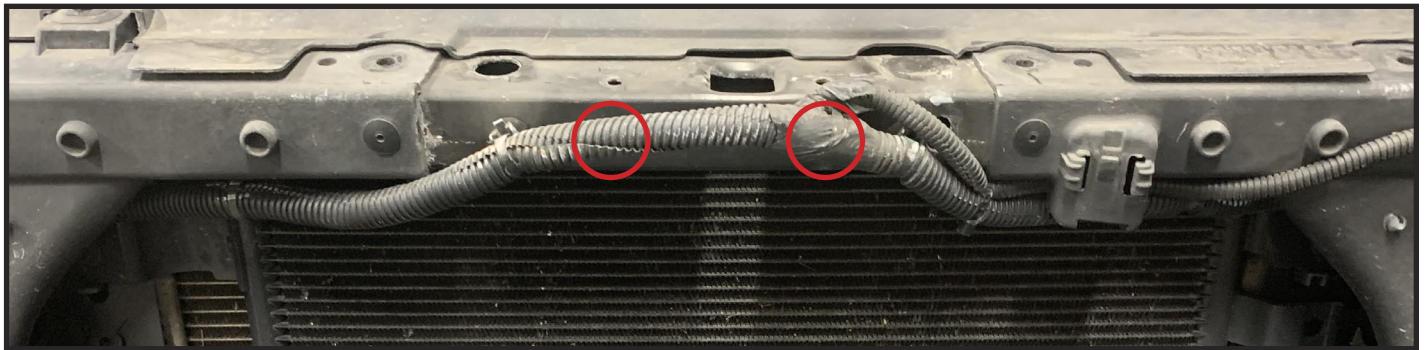
1. Disconnect the turn signal light connectors. Remove the grille and remove wiring harness as needed from the frame of the Jeep. Other components, shrouds, etc., may need to be removed depending on your exact model.
2. If installing only an engine oil cooler, any location in front of the radiator will be fine. If installing both an engine oil cooler and transmission oil cooler, install the engine oil cooler on the passenger side.
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 an engine 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. If not already installed in the sandwich plate, install the 1/8" NPT plugs in the sides with Teflon tape and install the adapters to AN10 into the plate. Northern recommends using Teflon tape or antiseize on the threads going into the sandwich plate.
9. Remove the oil filter and install the sandwich plate to the oil filter housing. Remember to lubricate the o-ring with oil to create a proper seal. Torque the center bolt adapter to 35 ft-lb. Reinstall the oil filter.
10. Loosely install the new oil lines with the 90 degree fittings at the sandwich plate. Route the 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.
11. 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 or sandwich plate.
12. 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.
13. Check for leaks.
14. Start engine so that new cooler and lines fill, check oil level and top off as needed with the correct weight oil. It will take about a quart.
15. Reinstall the wiring harness, grille, turn signals, and any other components that were removed during install.

