



advanced FLOW engineering

**Instruction Manual** P/N: 46-80005

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BladeRunner – Transmission Oil Cooler Kit

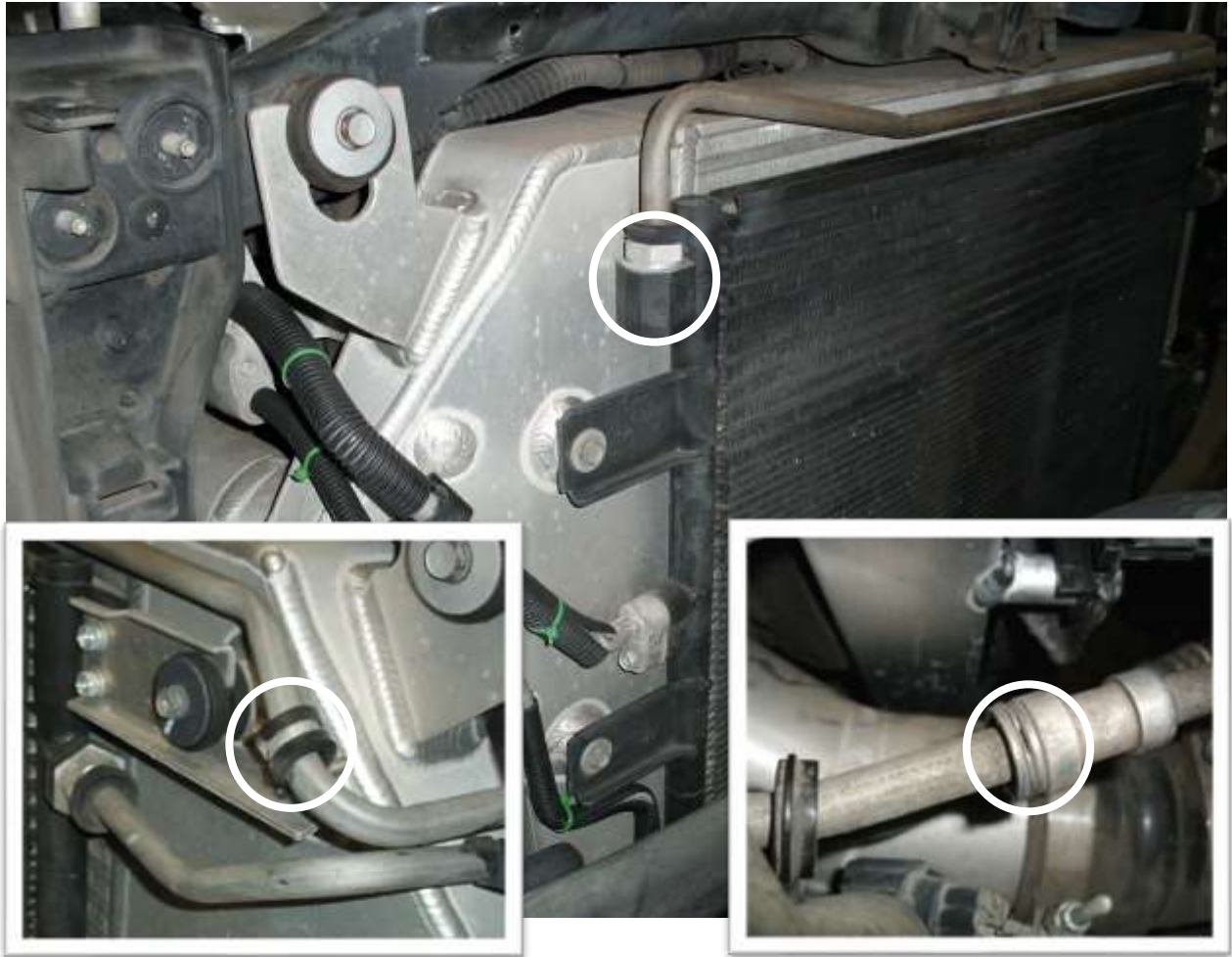
Make: **Dodge/RAM** Model: 2500/3500 Year: 2010-2012 Engine: L6-6.7L (td)



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description
A	1	Transmission Oil Cooler
B	2	1/2" Oil Cooler Hose, 3 Feet
C	3	AN-8 90-Degree Push Lock Fitting
D	1	Bracket, Upper Mounting
E	1	Fitting, 3/4-16 O-Ring to AN-8
F	1	Fitting, Dodge Transmission Line Adaptor
G	4	M6 x 20mm Button Head Screw
H	6	M6 Hex Nut
I	2	M6 x 25mm Socket Head Screw
J	4	M6 Washer



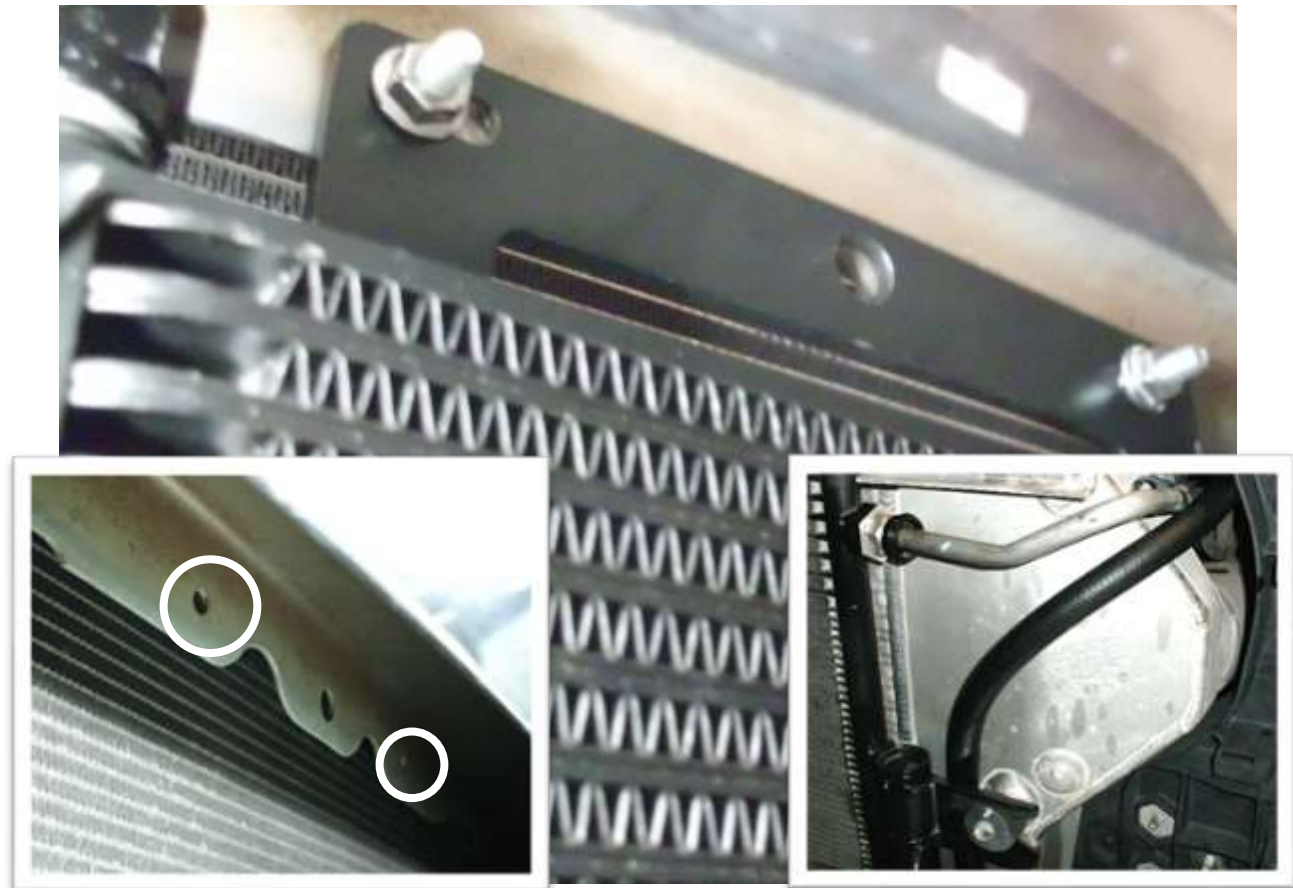


1. Park vehicle on level ground and engage the parking brake.
2. Remove the four (4) screws securing the grille to the radiator core support.
3. Remove the grille from the vehicle.
4. Disconnect the loop retainer securing the upper transmission cooler line to the support bracket on the front of the intercooler.
5. Disconnect the retaining caps and spring clips from the from the line connectors at the passenger side of the OE transmission cooler and behind the driver's side headlight.
6. Pull the upper transmission cooler line free from the connections and remove the line from the vehicle.

**Note: Some fluid will leak from the lines upon removal.**



7. Install the supplied Upper Mounting Bracket to the top of the supplied aFe Transmission Oil Cooler using the four (4) supplied M6 x 20 Button Head Screws and four (4) of the supplied M6 Hex Nuts.
8. Install two (2) of the provided AN-8 90-Degree Push Lock Fittings onto the AN fittings of the supplied aFe Transmission Oil Cooler, with each end of the barbed fittings facing outwards from the center of the cooler.
9. Lubricate the end of each of the supplied 1/2" Oil Cooler Hoses with a small amount of oil and press onto the AN-8 90-Degree Push Lock Fittings mounted to aFe Transmission Oil Cooler until tightly seated at the base of the fitting (no clamps required).



10. Identify the mounting location for the aFe Transmission Oil Cooler assembly inside the lower bumper airflow opening. Mount the assembled aFe Transmission Oil Cooler to the holes at the inside top of the bumper using the two (2) supplied M6 x 25mm Socket Head Screws, the four (4) supplied M6 Washers (one on each side of the mounting surface per screw), and two (2) of the supplied M6 Hex Nuts.
11. Route the passenger side transmission cooler hose from the AN-8 90-Degree Push Lock Fitting up behind the bumper and grille and to the passenger side of the OE transmission oil cooler.
12. Route the driver side transmission cooler hose from the AN-8 90-Degree Push Lock Fitting behind the bumper, grille, and in between the intercooler and a/c condenser and up the end of the OE transmission cooler line that was disconnected in Step 5.



13. Remove the fitting secured to the passenger side of the OE transmission cooler.
14. Replace the fitting removed in Step 13 with the supplied 3/4-16 O-Ring to AN-8 fitting. Do not over-tighten as it may crush the O-Ring.
15. Install one (1) of the supplied AN-8 90-Degree Push Lock Fittings onto the fitting installed in Step 14. Face the outlet of the 90-Degree fitting to towards the passenger side of the vehicle, facing away from the OE transmission cooler.
16. Position the end of the passenger side 1/2" Oil Cooler Hose routed up in Step 11 to reach and fit over the fitting installed in Step 15 and trim the hose to remove any excess length. Lubricate the end of the hose with a small amount of oil and press the end of onto the AN-8 90-Degree Push Lock Fitting until tightly seated at the base of the fitting (no clamps required).
17. Push the supplied Dodge Transmission Line Adaptor Fitting into the OE transmission cooler line connection on the driver side of the vehicle, where the line was removed in Step 6, and secure to the connector using the OE spring clip.
18. Position the end of the driver side 1/2" Oil Cooler Hose routed up in Step 12 to reach and fit over the fitting installed in Step 17 and trim the hose to remove any excess length. Lubricate the end of the hose with a small amount of oil and press the end of the hose onto the barbed end of the Dodge Transmission Line Adaptor Fitting until tightly seated at the base of the fitting (no clamps required).



19. Check all installed lines for a secure connection and start the vehicle. Ensure there are no leaks while the vehicle is running.
20. Reinstall the grille using the OE screws.
21. Test drive the vehicle.
22. Use the proper procedure to check the transmission fluid level, top off if needed.
23. Install is now complete!

**Note: Be sure to check all connections after 50-100 miles.**