



***advanced FLOW engineering***

**Instruction Manual P/N: 46-80007**

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**BladeRunner – Transmission Oil Cooler Kit**

Make: **GM** Model: **Silverado/Sierra** Year: **1999-2013** Engine: **V8-4.8L/5.3L/6.0L/6.2L**

Make: **GM** Model: **Tahoe/Yukon** Year: **2000-2014** Engine: **V8-4.8L/5.3L/6.0L/6.2L**

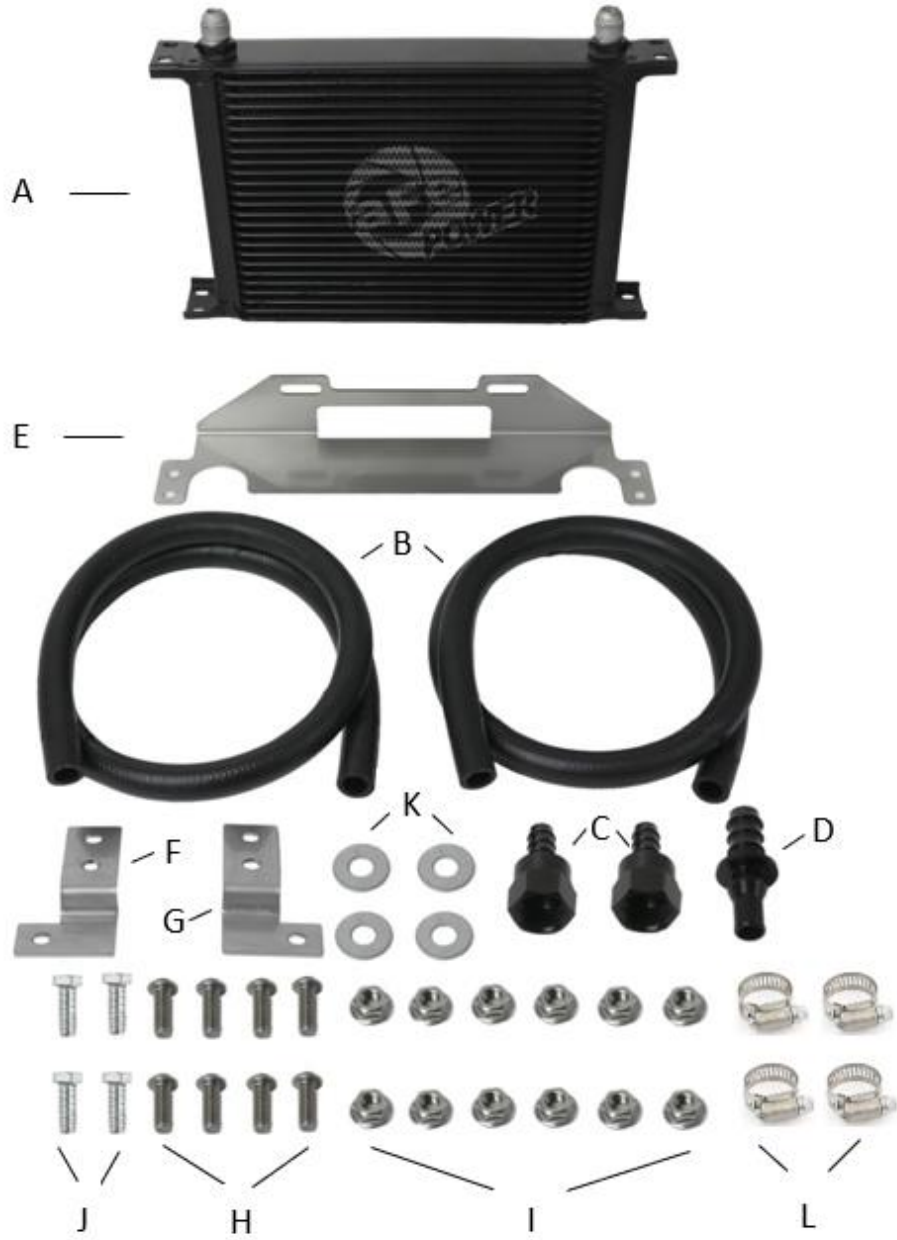


- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory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

Label	Qty.	U.O.M.	Part No.	Description
A	1	each	05-60934	Transmission Oil Cooler
B	2	each	05-60506	3/8" Oil Cooler Hose, 4ft
C	2	each	03-50767	Fitting, 3/8" Barb to AN -8 Female
D	1	each	05-61240	Fitting, Transmission Line Adaptor
E	1	each	05-61239	Bracket, Upper Mounting
F	1	each	05-61237	Bracket, Lower Mounting, Passenger Side
G	1	each	05-61238	Bracket, Lower Mounting, Driver Side
H	8	each	03-50241	M6 x 20mm Button Head Screw
I	12	each	03-50059	M6 Hex Nut
J	4	each	03-50057	M6 x 20mm Hex Head Screw
K	4	each	03-50070	M6 Washer
L	4	each	03-50078	Hose Clamp, 9/16"-1-1/16"

**Installation will require the following tools:**

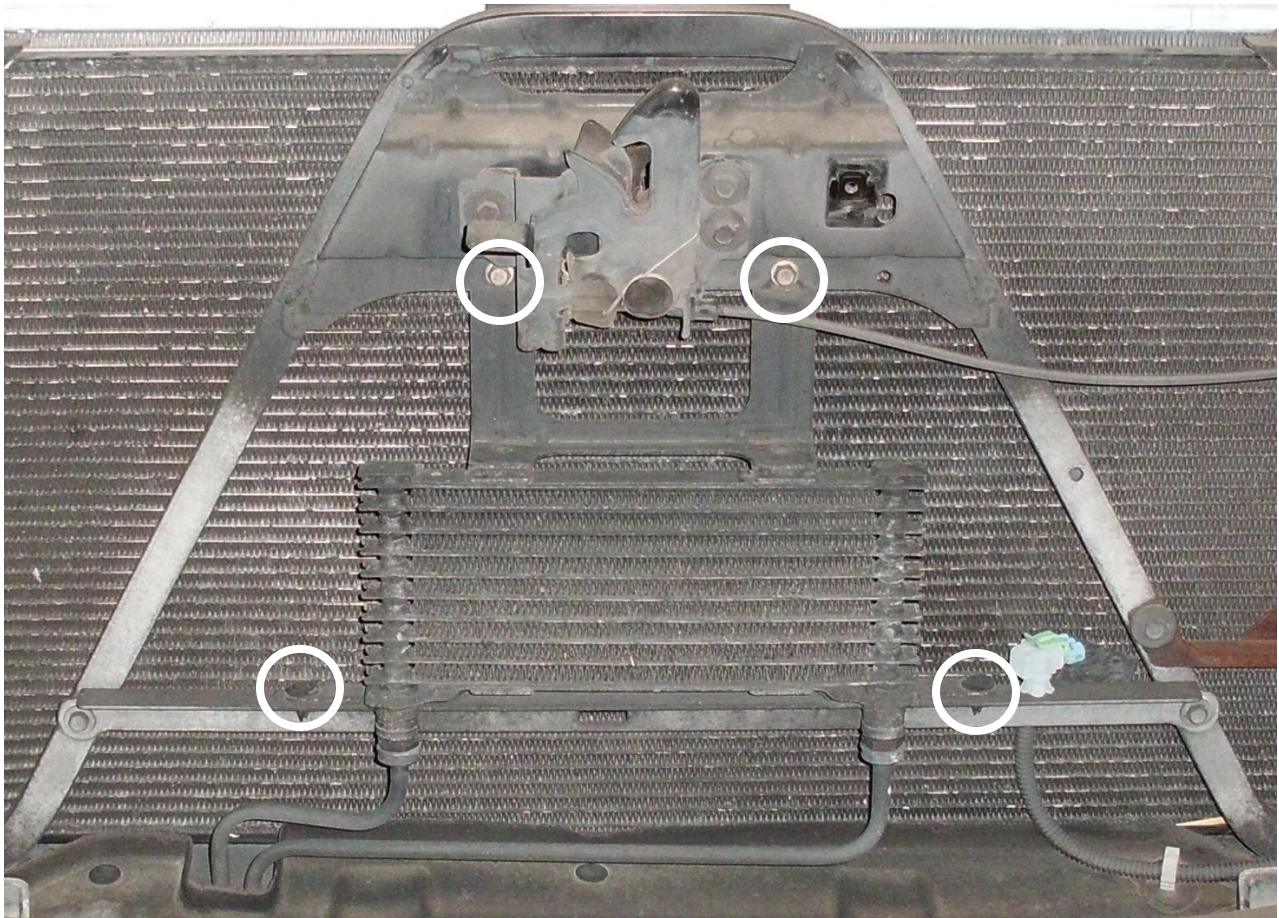
10mm socket, 1/4" deep socket, 4mm allen wrench, 10mm wrench, 6" extension, ratchet, flat head screwdriver, Phillips head screwdriver.



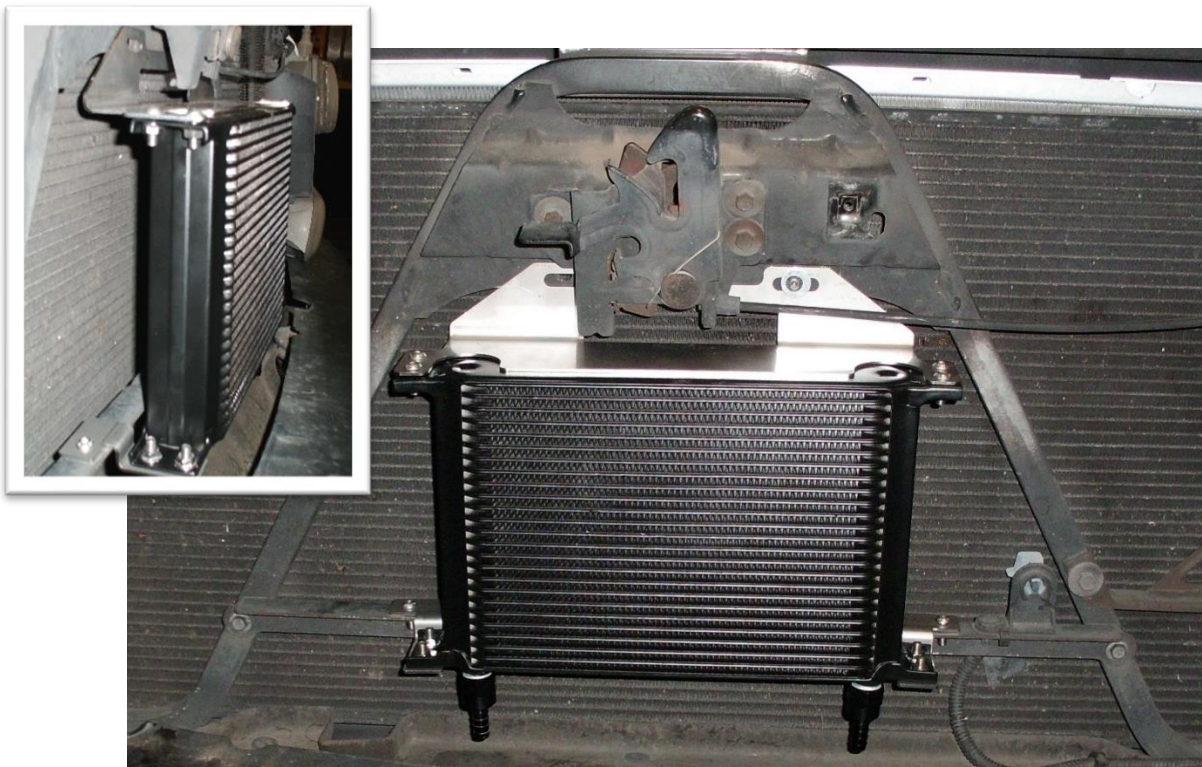


1. Park vehicle on level ground and engage the parking brake. Wait for vehicle to cool before beginning installation.
2. Remove the nine (9) plastic push pins securing the radiator cover to the vehicle and remove the cover.
3. Remove the screw securing the top of the grille to the radiator core support.
4. Locate the four (4) plastic screws securing the grille to the core support and turn each screw 90 degrees counterclockwise to release the clips.
5. Remove the grille from the vehicle.

**Note: Steps 6-8 are for vehicles equipped with the factory external transmission cooler only**

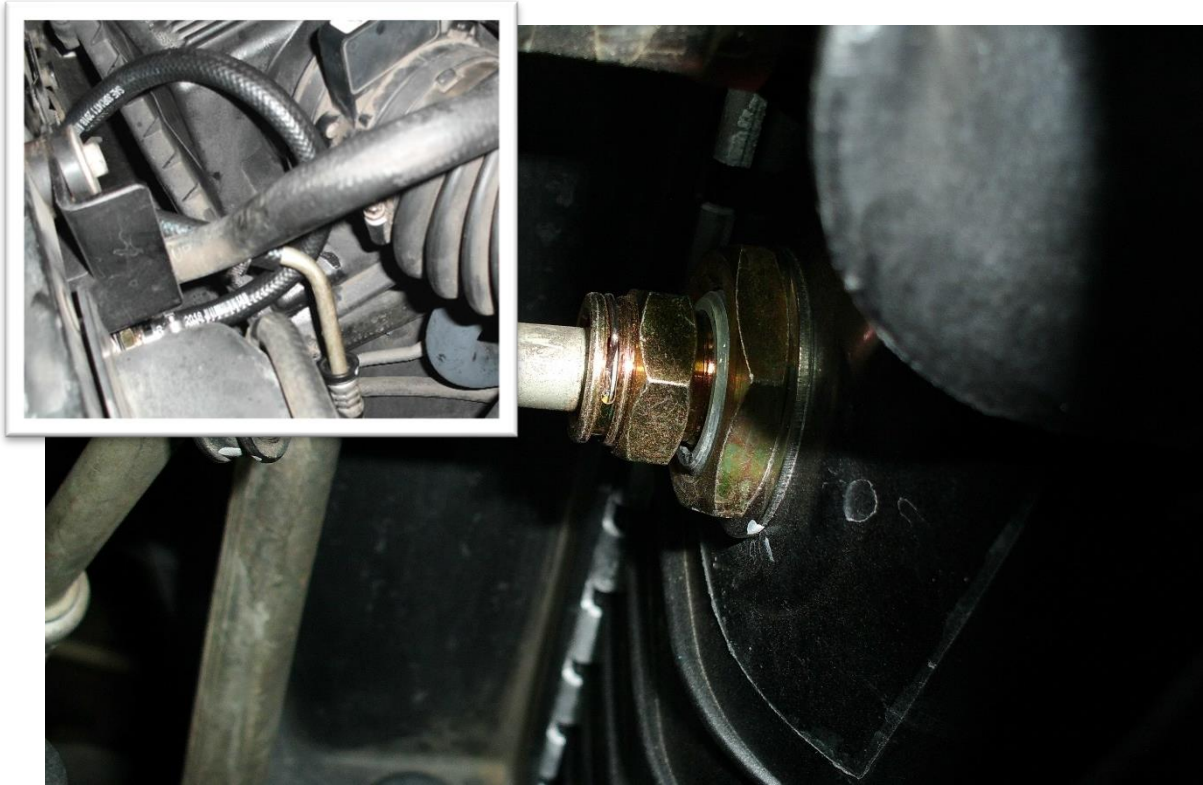


6. Disconnect the retaining caps and spring clips from the line connectors on the factory oil cooler and pull the lines free from the connection. Be prepared to catch the fluid that will drain from the cooler.
7. Remove the plastic push pins securing the bottom of the OE oil cooler to the radiator support.
8. Remove the two (2) screws securing the upper bracket of the OE cooler to the radiator support and remove the cooler assembly from the vehicle.



9. Install the supplied Upper Mounting Bracket to the bottom of the supplied aFe Transmission Oil Cooler using four (4) of the supplied M6 x 20 Button Head Screws and four (4) of the supplied M6 Hex Nuts.
10. Install the supplied Lower Mounting Brackets to the top of the supplied aFe Transmission Oil Cooler using four (4) of the supplied M6 x 20 Button Head Screws and four (4) of the supplied M6 Hex Nuts.
11. Install the two (2) supplied 3/8" Barb to AN -8 Female Fittings onto the AN-8 male fittings of the supplied aFe Transmission Oil Cooler.
12. Mount the Oil Cooler and Bracket assembly to the vehicle using four (4) of the supplied M6 x 20mm Hex Head Screws, four (4) of the supplied M6 Washers, and four (4) of the supplied M6 Hex Nuts as shown in the image above. The Upper Mounting Bracket should be secured to the front face of the hood latch assembly, and the M6 Screws with M6 Washers should go through the front and be secured with the M6 Hex Nuts from the rear.
13. Lubricate one end of each the two (2) supplied 3/8" Oil Cooler Hoses with a small amount of oil and press one end of each hose onto the 3/8" Barb Fittings attached to the aFe Oil Cooler and press until tightly seated at the base of the fitting. Secure each hose with one (1) of the supplied Hose Clamps.

**Note: Steps 14-17 are for vehicles NOT equipped with the factory external transmission cooler**



14. Disconnect the retaining cap and spring clip from the line connector on the upper transmission line connected to the passenger side of the radiator. Pull the line free from the connection. Be prepared to catch the fluid that will drain from the line.
15. Push the supplied Transmission Line Adaptor Fitting into the OE transmission cooler line connection on the passenger side of the radiator, where the line was removed in Step 14, and secure to the connector using the OE spring clip.
16. Route the hoses installed in Step 13 back around the passenger side of the radiator and to the line and fitting that was installed in Step 15.
17. Lubricate one end of each the two (2) supplied 3/8" Oil Cooler Hoses with a small amount of oil and press the end of one hose directly onto the transmission line removed in Step 14 and press the end of the remaining hose onto the barbed end of the Transmission Line Adaptor Fitting until tightly seated at the base of the fitting. Secure each hose with one (1) each of the supplied Hose Clamps.



**Note: Step 18 is for vehicles equipped with the factory external transmission cooler only**

18. Route each hose from the aFe Transmission Oil Cooler to the OE transmission cooler lines below the cooler. Trim the end of the hoses to the desired length. Lubricate the end of the hoses with a small amount of oil and press directly onto the OE transmission lines and secure each hose with one (1) each of the supplied Hose Clamps.
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 and reinstall the upper radiator shroud using the OE push pins.
21. Use the proper procedure to check the transmission fluid level, top off if needed.
22. Test drive the vehicle.
23. Install is now complete!

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