

**advanced FLOW engineering**

**Instruction Manual** P/N: 46-70280 / 46-70282 / 46-70286

Make: **RAM** Model: **1500 EcoDiesel** Year: **2014-2015** Engine: **V6-3.0L (td)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	<a href="#">Oil Pan (Black Machined Fins)</a>	05-60444B
A2	1	Oil Pan (Unpainted Machined Fins)	05-60444A
A3	1	Oil Pan (Red Machined Fins)	05-60444R
B	1	Plug, 3/4" - 14 NPTF w/Magnet	03-50222
C	1	RTV Silicone	05-60096

Installation will require the following tools:

18mm socket, 10mm deep socket, 8mm socket, Socket driver, 13mm wrench, 18mm wrench, 1/2" drive ratchet, 6" socket extension, Teflon tape, Gasket scraper, Oil drain pan

Attention:

The aFe differential cover is designed to fit the factory axle supplied as original equipment. For some applications or due to the use of certain factory options and/or aftermarket products, there may be clearance issues with the aFe differential cover and other vehicle systems.

It is the responsibility of the installer/vehicle owner to ensure that no other vehicle component come in contact with the aFe differential cover. Contact with any other vehicle component, or any modifications made to the aFe differential cover will automatically void the warranty. aFe assumes no liability, express or implied, for damage or injury to persons or property.



A1

B



A2

B

C



A3

B





Figure A

### **Refer to Figure A for steps 1-3**

Step 1: Park your vehicle on a flat dry surface. You will need to block the tires to prevent the vehicle from rolling.

**Note:** You will need to get under the truck to do this installation. Please use every precaution when lifting the vehicle.

Step 2: Using an 18mm socket and wrench, remove the 4 bolts from the crossmember. Remove the crossmember from the vehicle.

Step 3: Place a drain pan under the oil pan. Remove the drain plug using a 13mm wrench and allow the oil pan to drain (about 10 quarts).



Figure B

**Refer to Figure B for steps 4-6**

Step 4: Using a 10mm deep socket, remove the nut that retains the transmission cooler lines to the oil pan. Pull the transmission cooler lines down carefully off the stud and remove the studded bolt from the oil pan.

Step 5: Using an 8mm socket with a 6" extension, remove the 15 bolts from the oil pan.

Step 6: Using a gasket scraper, carefully insert the scraper between the engine block and the oil pan. Pry the oil pan off. Do not gouge the oil pan sealing surface.



Figure C

**Refer to Figure C for step 7**

Step 7: Clean the oil pan seal surface with a gasket scraper. Be Careful not to gouge the surface while cleaning.

INSTALL

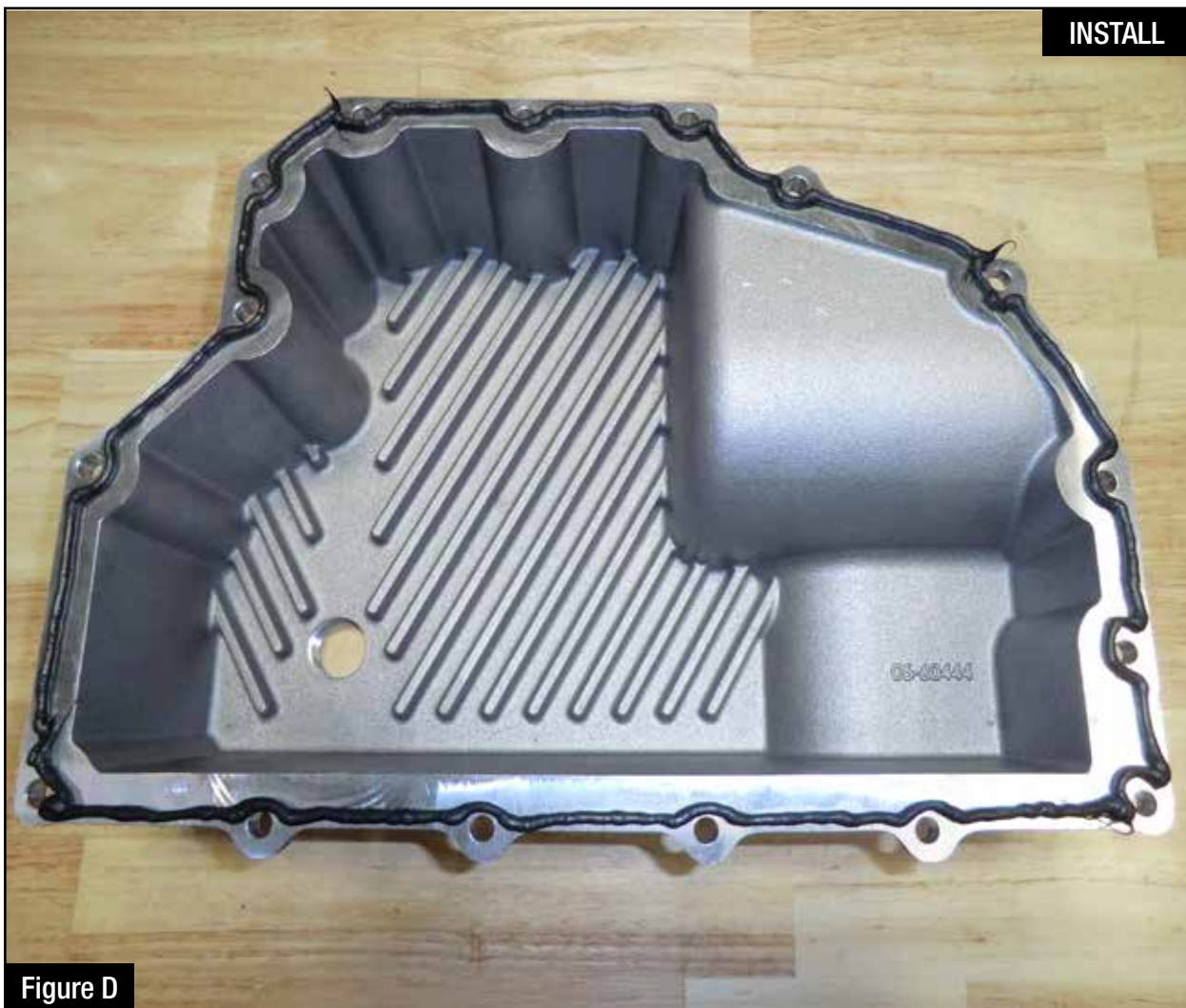


Figure D

**Refer to Figure D for step 8**

Step 8: Using the silicone provided, apply to the new aFe Oil Pan (as shown in picture above).

**Note:** Follow the instructions on the supplied silicone package for a proper seal.

**Figure E****Refer to Figure E for steps 9-13**

Step 9: Using an 8mm socket with a 6" extension, reinstall the 15 factory bolts in their original location. Snug the bolts up but do not tighten.

Step 10: Using a 10mm socket, Install the studded bolt for the transmission cooler lines and tighten.

Step 11: Tighten all of the oil pan bolts. Torque to 7-10 lbs.-ft.

Step 12: Install the transmission coolers lines onto the studded bolt and reinstall the nut and tighten.

Step 13: Apply teflon tape to the new drain plug. Using a ½" drive ratchet, install and tighten.



Figure F

**Refer to Figure F for steps 14-16**

Step 14: Using an 18mm socket and wrench, reinstall the crossmember and the factory hardware and tighten.

**Note:** aFe recommends changing the oil and the oil filter at this time.

Step 15: Install new oil into the oil fill on the truck (approximately 12-13 quarts). Make sure you have the proper level of oil on the oil dip stick. Check the pan for any leaks.

Step 16: Your installation is now complete. Drive at least 25 miles and check oil level using factory oil dip stick and fill if necessary.