



advanced *FLOW* engineering

Instruction Manual P/N: 46-70172

Make: **Ford** Model: **F-150** Year: **2009-2015** Transmission: **6R80**



- 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.



Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Transmission Pan	05-60342
B	1	Filter Extension	05-60330
C	1	O-ring	03-50413
D	21	Screw M6 x 1.0 x 30mm bolts	03-50382
E	21	M6 washers	03-50177
F	1	3/4" NPT Plug	03-50222
G	1	1/8" NPT Plug	03-50029
H	1	Screw M6 x 8 x 1.0mm	03-50407
I	1	Fender washer	03-50412

Installation will require the following tools:

8mm Socket, Socket Driver(Ratchet), 1/2" Extension, 1/2" Ratchet, 5/32" allen wrench, 5mm Allen wrench
4mm Allen wrench, Thread locker, Teflon tape, Transfer pump for oil, Lint free rags.

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.

D



E



F



I



G



H



B



C



Figure A

Refer to Figure A for steps 1-3

Step 1: Park vehicle on flat dry surface and engage the parking brake.

Step 2: Remove the belly cover on the truck by twisting the factory retainers counter clockwise.
(If applicable)

Step 3: Using an 8mm socket, remove the 21 bolts holding the transmission pan. As you remove the transmission pan bolts, the fluid will start to drain. Drain the fluid and remove the pan.



Figure B

Refer to Figure B for steps 4-5

Step 4: Remove the stock filter from the transmission.

Step 5: Wipe any residual transmission fluid from the transmission with a lint free rag.

aFe recommends replacing filter at this time.



Figure C

Refer to Figure C for steps 6-8

Step 6: Install the supplied O-ring to the filter extension.

Step 7: Install the filter extension to the pick up on the filter.

Step 8: Install the filter back into the transmission.

***Some of the newer filters will not use the extension.**



Figure D

Refer to Figure D for steps 9-10

Step 9: Remove the magnet from the stock pan.

Step 10: Install the magnet on the aFe transmission pan and retain using the supplied M6x1.0x8 bolt and fender washer. Make sure to use a drop of thread locker on the bolt and carefully tighten.



Figure E

Refer to Figure E for steps 11-13

Step 11: Install teflon tape on the 3/4" NPT plug, and on the 1/8" NPT plug.

Step 12: Use a 5/32" allen wrench, install the 1/8" NPT into the transmission pan.

Step 13: Using a 1/2" extension and a 1/2" ratchet , install the 3/4" NPT plug into the transmission.



Figure F

Refer to Figure F for steps 14-15

Step 14: Using the factory gasket, install the aFe transmission pan using a 5mm allen wrench and 21 - M6 x 1 x 30mm bolts and 21 - M6 washers.

Step 15: Tighten the bolts in a crisscross pattern to 8 lb-ft.

* Over torque of the pan bolts may cause damage to the gasket sealing bead



Figure G

Refer to Figure G for steps 16-18

Step 16: The transmission dipstick is located under the truck at the transmission. Fill the transmission to the factory specifications using the recommended oil. Pump the oil in the transmission through the dipstick hole. Reinstall dipstick.

***Note: The pan holds about 6 quarts more than stock.**

Step 17: Reinstall the belly cover on the truck using factory clips (If applicable).

Step 18: Your installation is now complete.

***Transmission fluid expands. Always check oil level per factory recommendations when the truck is hot.**

*** Caution*: A running truck will be hot. Take every precaution necessary to prevent being burned.**