



advanced ***FLOW engineering***

**Instruction Manual** P/N: 46-70180 / 46-70182

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Make: **Ford** Model: **F-250/F-350** Year: **2011-2014** Transmission: **6R140**



- 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
A1	1	Trans. Pan - Raw, Machined Fins (46-70180)	05-60342A
A2	1	Trans. Pan - Black, Machined Fins (46-70182)	05-60342
B	19	Screw M6 x 1.0 x 30mm bolts	03-50382
C	19	M6 washers	03-50177
D	1	Plug, Square Socket Head, 3/4" - 14 NPTF Magnet	03-50222
E	1	Plug, Hex Head Socket, 1.8" - 27 NPT (Zn Plt)	03-50029
F	1	Screw M6 x 8 x 1.0mm	03-50407
G	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.

A1



A2



B



C



D



G



E



F





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

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

Step 2: Using a 13mm wrench, remove the drain plug and allow the oil to drain into a drain pan.

Step 3: Using an 8mm socket, remove the 19 bolts holding the transmission pan.



Figure B

**Refer to Figure B for steps 4-5**

Step 4: Remove the stock filter from the transmission. Make sure that the rubber seal on the transmission filter comes out with the filter.

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

**\*aFe recommends replacing filter at this time.\***

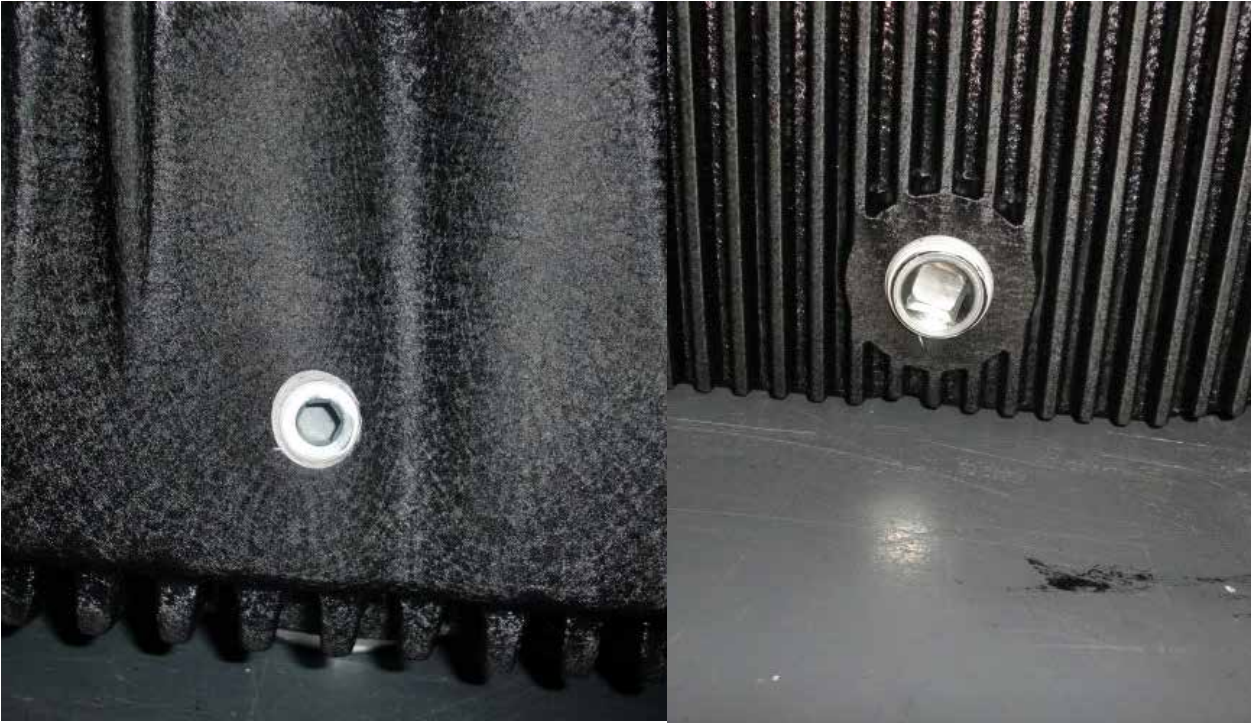


Figure C

**Refer to Figure C for steps 6-7**

Step 6: Remove the magnet from the factory Ford pan.

Step 7: Install the magnet on the aFe transmission pan and retain using the supplied M6-1.0 bolt and fender washer. Make sure to use a drop of thread locker on the bolt and carefully tighten.

**Figure D****Refer to Figure D for steps 8-10**

Step 8: Install teflon tape on the  $\frac{3}{4}$ " NPT plug, and on the  $\frac{1}{4}$ " NPT plug.

Step 9: If not installing a temperature sensor, use a  $\frac{5}{32}$ " allen wrench and install the  $\frac{1}{8}$ " NPT into the transmission pan.

Step 10: Using a  $\frac{1}{2}$ " extension and a  $\frac{1}{2}$ " ratchet, install the  $\frac{3}{4}$ " NPT plug into the transmission.

**Figure E****Refer to Figure E for steps 11-13**

Step 11: Install the filter into the transmission.

Step 12: Using the factory gasket, install the new aFe transmission pan using a 5mm allen wrench and (19) M6x30mm.

Step 13: Fill the transmission pan with the oil recommended by Ford, (Mercon\LV). Follow the directions in your owner's manual on how to check the level on the transmission dipstick.

**\*You Installation is now complete.**

**Note: Transmission fluid expands. Always check oil level when the truck is at operating temperature.**