



advanced FLOW engineering

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

Make: **Ford** Model: **Super Duty F-250/F-350** Year: **2011-2017** Transmission: **6R140**



- 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 at 951-493-7100.
- 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



**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: 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.

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Differential Cover



P/N: 46-70023

Differential Cover



P/N: 46-70080

Exhaust System



P/N: 49-43066-B

Air Intake



P/N: 50-73005

Programmer



P/N: 77-43006

Fuel Filter



P/N: 44-FF014

Oil Filter



P/N: 44-LF024

Oil Cap



P/N: 79-12006

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video; please go to aFepower.com.

Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category	P/N Prefix	Warranty duration
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72, TF	2 years
Air Intake Systems	50, 51, 54, 55, 75, TR, TA, TL	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Turbochargers	46-6	2 years*
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81, 87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

*See turbocharger warranty for more info



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