



INSTALLATION INSTRUCTIONS

MAKE: Ford

MODEL: F-250/350/450/550/650

YEAR: 1994-2003

ENGINE: V8-7.3L (td) Power Stroke

Transmission Pan E40D/4R100 46-70102 (Machined Fins) 46-70100 (Raw)



Parts Included:

- Trans. Pan - Black, Machined (qty. 1)
Fins (46-70102)
- Trans. Pan - Raw, Machined (qty. 1)
Fins (46-70100)
- Socket Head Cap Screws: M8x1.25x25 (qty. 12)
- Flat Washers (qty. 20)
- Socket Head Cap Screws: M8x1.25x20 (qty. 8)
- Plug, Square Socket Head, 3/4" - 14
NPTF Magnet (qty. 1)
- Plug, Hex Head Socket, 1/8" - 27 NPT
(Zn Plt) (qty. 1)
- O-Ring (qty. 1)

Tools Needed:

- 3/16 Allen Bit
- 3/8 Ratchet
- 3/8 Drive Torque Wrench
- 6mm Allen Bit
- 13mm Socket Wrench
- Gasket Scraper
- Smooth Flat File
- Oil Drain Pan (minimum 8 Qt. capacity)

CAUTION: Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Engine bays may reach high temperatures and may cause serious burns. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation. aFe Power recommends professional installation on our products. Consult your owner's or shop manual for transmission fluid requirements.

1. Park your vehicle on level ground and apply the parking brake. Use jack stands if the vehicle must be raised.
2. Position a large drain pan under the transmission to catch the fluid. Some transmission pans have a drain plug. Remove it now and allow to drain. (There will still be some oil in pan after allowing to drain).
3. Starting at the rear, remove the 20 existing oil pan screws. Remove the factory transmission pan.
4. Using a gasket scraper, start at the rear of the pan and carefully (so as not to gouge the transmission case) insert between the existing pan and transmission housing and pry the old pan off.
5. Allow all of the old oil to drain.
6. Using a gasket scraper, carefully remove all of the old gasket material from the transmission case.
7. Use clean lint free rags to clean the transmission case gasket surface. The surface must be clean and flat for the gasket to seal.
8. Before installing the new aFe pan, check the gasket mating surface on the transmission case for dents, irregularities, or gouges. Should any exist, carefully remove the high spots using a smooth flat file. BE CAREFUL NOT TO "ROUND OFF" THE FLAT GASKET SURFACE.
9. Check to make sure the threads in the case are deep enough by screwing the 8mm x 25 mm screw in the case with the washer in place. Measure the threads that stick through, it should be a minimum of 3/8 and a maximum of 1/2. The front four screws on each side of the bell housing, 3 screws in the rear of the case and one by the shift arm is where the 8mm X 20 mm screws go if needed. These are flat bottom holes and sometimes they are not drilled and tapped deep enough and if they are forced in the two front screws will put a dimple in the ID of the pump bore.
10. Apply a small amount of new transmission fluid to the new o-ring. Install it on the transmission pan in the pre-cut channel on the gasket mating surface. BE CAREFUL NOT TO CUT THE O-RING WHILE INSTALLING.
11. Remove the filter and replace it with a new filter. (aFe #44-TF003) or (Ford Part #F6TZ7A098BB).
12. Align the screw holes and install the 20 cap screws and washers until they are installed "finger tight".
13. Using a 6mm hex bit and 3/8 drive torque wrench, torque the allen cap screws to (12-16 ft. lbs.) in a "cross tight" pattern.
14. Install the drain plug and 1/8 pipe plug. If you are going to install a temperature sender, do so at this time. Install the sender in its place. Be Sure To Use LPS All Purpose Anti-Seize or equal On The Sender's Pipe Threads. "TIGHTEN" both the DRAIN PLUG and 1/8 PIPE PLUG TO (30 in. lbs) DO NOT OVER TIGHTEN.
15. Remove the dipstick and add in the new automatic transmission fluid (aFe recommends using the dealer recommended fluid for your application). The aFe pan will hold 17 quarts of transmission fluid or 7.5 quarts of transmission fluid over a stock 4 x 4 pan. Fill to full line on dipstick.
Note: The full line on dipstick is the bottom face of transmission case or the top face of the transmission pan.

ATTENTION: FLUID LEVEL (VERY IMPORTANT)

To check fluid level TWO PEOPLE will be needed. Follow these instructions to insure NO OVER FILLING.

1. Make sure vehicle is level and fluid is cold.
2. One person start vehicle, KEEPING ONE FOOT ON BRAKE.
3. Shift transmission into drive then into neutral.
4. Second person check fluid right away.
5. Fluid level should be at lower full mark.

OVERFILLING WILL CAUSE FLUID TO LEAK OUT VENT TUBE



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