



BD FORD HD CAST TRANSMISSION PAN

For use on 1989-2009 Ford Powerstrokes

Installation Instructions

Part# 1061715










Designed for Ford E40D / 4R100 / 5R110 Transmissions

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

<i>Kit Contents</i>		
1601700	1200208	1601613
Transmission Pan	Plug	Magnetic Drain Plug
		
Qty: 1	Qty: 1	Qty: 1
1601710	1601715	1601711
Pan O-Ring	Bolt (8mm x 30mm)	Bolt (8mm x 25mm)
		
Qty: 1	Qty: 12	Qty: 8
1601512	1601713	1601714
Flat Washer	5R110 Support Filter Bracket	E40D/4R100 Filter Support Bracket
		
Qty: 20	Qty: 1	Qty: 1

Tools & Equipment Required

- 12 Quarts Of Transmission Fluid
- 1 Can of “Brake Clean” or equivalent
- 3/8” Drive Torque Wrench
- 3/8” Drive Ratchet
- 3/8” Drive 6” Extension
- 3/8” Drive 8mm Socket
- 3/8” Drive 10mm Socket
- 3/8” Drive 7/16” Socket
- 3/8” Drive 6mm Allen Driver
- 3/8” Drive 8mm Allen Driver
- 3/8” Drive Torque Wrench (capable of reading low setting [10ft-lbs])

Torque Specs At A Glance

Pan Bolts	15 ft-lbs		Pan Drain Plug	20 ft-lbs
Sensor Plug	12-15 ft-lbs		V/B Bolt	10 ft-lbs

PLEASE NOTE: There are 8 short bolts (8mm X 25) in this kit, they should be installed in the hole locations marked (see picture below) or damage may result.



NOTE: Use a torque wrench when installing any transmission component.

Installation Instructions

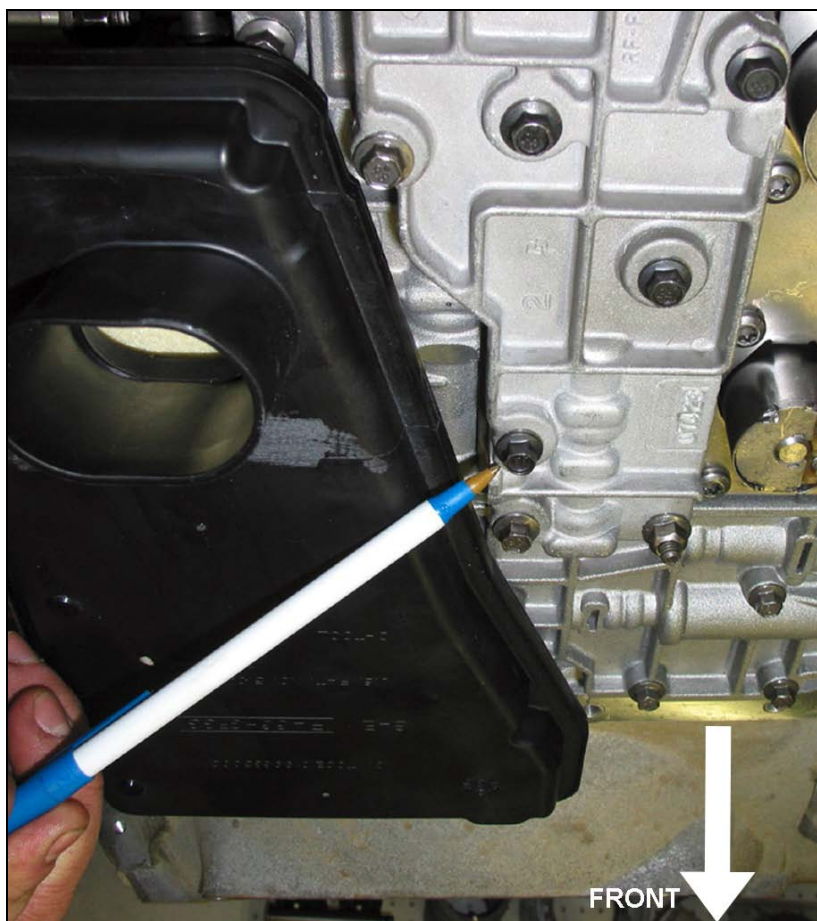
Park the vehicle on flat and level ground with the park brake applied and the transmission in park.

Drain the transmission pan of existing fluid.

Remove the 20 existing bolts securing the pan to the transmission case.

Remove the pan slowly. If the pan is stuck to the case, tap the side of the pan lightly with a soft faced mallet until it breaks free.

Carefully pull the pan off of the transmission. Once this is done, inspect the magnet that is in the bed of the pan for excess material (dust type material is normal). If the debris looks abnormal (ie: metal shavings), consult a professional transmission technician for diagnostics.



The pictures above show the bolt that needs to be removed in order to install the filter bracket. Position the bracket and re-install the bolt, then torque it to 10 lbs-ft.

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***** ATTENTION *****

The filter bracket was designed to fit and secure the factory Ford transmission filter. Do not use aftermarket filters that do not conform to the factory filter's size dimension. Failure to do so may result in the filter becoming dislodged.

When the new pan is removed from the packing box it is advisable to clean the inside of the pan with "Brake Clean" or an equivalent cleaner to ensure any unwanted residue is removed from the inside of the pan.

Line up the pan with the bolt holes in the case and install two 8mm X 30mm pan bolts with washers on either side of the pan to hold it in position.

While the pan is still loose, install the remaining 18 bolts and washers until they are hand tight. Ensure the shorter bolts (8mm x 25mm) are installed in the proper positions (as shown in the photo on page 3), then snug up the first two bolts that were installed in the previous step.

Tighten all pan bolts in a criss-cross pattern and torque all pan bolts to **15 lbs-ft.**

Install and torque the pan plug and to **20 lbs-ft.**

Install and torque the pan sending unit (if installed) or sending unit plug to **12 lbs-ft.**

Fill the transmission to the proper level with recommended fluid, filling at a maximum of 7 quarts at a time and then check the fluid level.

This pan is designed to fit with no parts rubbing or touching the pan once it is installed on the transmission. If for some reason there is something rubbing or touching the pan, please contact BD Technical Support at (800) 887-5030 before operating the vehicle.

Road test and check for leaks and ensure fluid level is correct.

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