



F O R D P O W E R S T R O K E

# exhaust kits

I N S T A L L A T I O N M A N U A L



**1.800.887.5030**  
**[www.bd-power.com](http://www.bd-power.com)**

## 1994-1997 FORD 7.3L POWERSTROKE 3" DOWN PIPE

### EXHAUST KIT # 1047310 INSTALLATION INSTRUCTIONS

Check to ensure all parts contained in the kit are received and in good order

<u>COMPONENT</u>	<u>PART #</u>	<u>QTY</u>
PIPE, TURBO DOWN PIPE	1040146-U	1
PIPE, DOWN PIPE EXTENSION	1040146-L	1
EXHAUST PIPE HEAT-WRAP	1040142	2
BOLT, 3/8" X 2.5" NC	1040143	2
NUT, 3/8" NC	1040144	2
WIRE S/S 6FT	1040145	6
PLUG $\frac{1}{4}$ NPT	1040147	1
CLAMP, EXH 'U' 3.0"	1100630	1
WASHER SPACER 3/8"	1200105	2

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.



**BD Engine Brake Inc.**

Plant Address: Unit A10, 33733 King Rd, Abbotsford, BC, Canada V2S 7M9

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](http://www.bd-power.com)

- 1) Raise vehicle on a hoist or safety stands to provide access to the exhaust system.
- 2) Loosen the two bolts on the inlet flange of the catalytic converter or intermediate pipe and pry the hanger pin from the hanger. Separate the pipe assembly.
- 3) Loosen the clamp at the turbocharger and unbolt the turbine outlet pipe bracket (if equipped) from the bell housing of the transmission. On vehicles with automatic transmissions, remove the transmission dipstick tube.
- 4) Cut OEM flat style pipe in half then remove the clamp securing the turbo down pipe to the turbo outlet and remove both pieces of pipe.

- 5) The firewall will interfere with the new turbine outlet pipe so the firewall seam lip and/or the firewall will have to be bent to provide clearance for the pipe. Using a wrench (adjustable, Vise-grips, etc.), grip the seam lip as deeply as possible and bend the lip back, even with the floor pan. A heavy pipe or bar may be used as a lever against the lip to assist in flattening the metal. Use of an air chisel or cutoff saw, if available, and nip a series of cuts in the firewall lip to ease bending.



With the OEM pipe removed, ensure the firewall is flattened to provide clearance for the new pipe.

**If you are not installing a pyrometer, then install and tighten the  $\frac{1}{4}$ " plug in the turbo down pipe.**

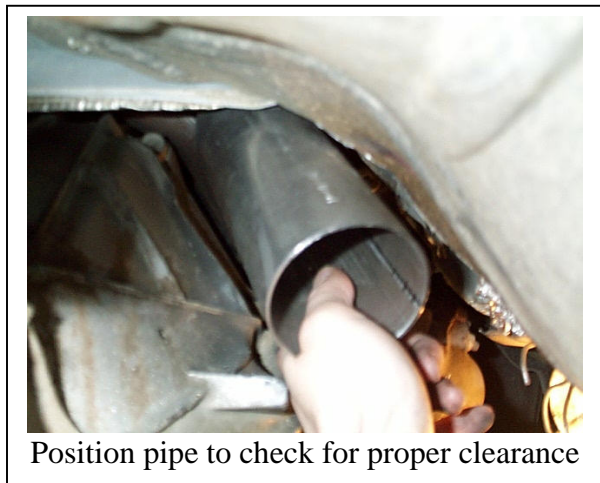
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- 6) Once the proper clearance has been achieved, position the turbo outlet down pipe on the turbo outlet and install the clamp.

**DO NOT TIGHTEN THE CLAMP  
AT THIS TIME.**

- 7) To shield the firewall from exhaust heat, install the 1<sup>st</sup> heat shield wrap around the outlet pipe and secure with a 3ft length of steel locking wire.



- 8) Position the lower pipe on the down pipe and align the pipes with the catalytic converter inlet. Install the clamp loosely to hold the pipes together in place (you may need to twist the pipe slightly to ensure proper alignment and clearance).

- 9) Install the second piece of heat wrap around lower pipe and secure in place with steel locking wire. Tighten all clamps.

- 10) Start the engine to check for leaks and exhaust components touching frame or underbody structures. Loosen clamps and adjust as required to seal leaks and maintain clearance, then secure clamps.



For technical assistance please call, fax, or E-mail the BD Technical Service Department, Monday to Friday, 8:30am to 4:30pm Pacific Time.

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