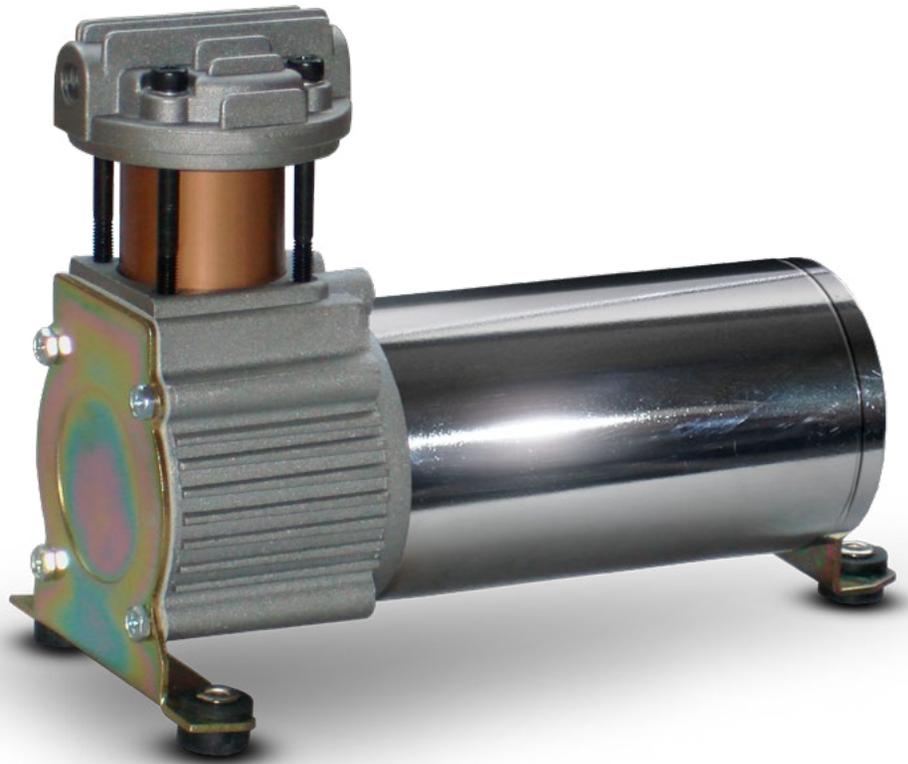


# Installation Manual



**20298**

**325 SERIES**

**AIR COMPRESSOR:  
CONVERSION KIT**

**APPLICATIONS:**

1999-2003 Ford F-250 / F-350 7.3L Powerstroke Diesel

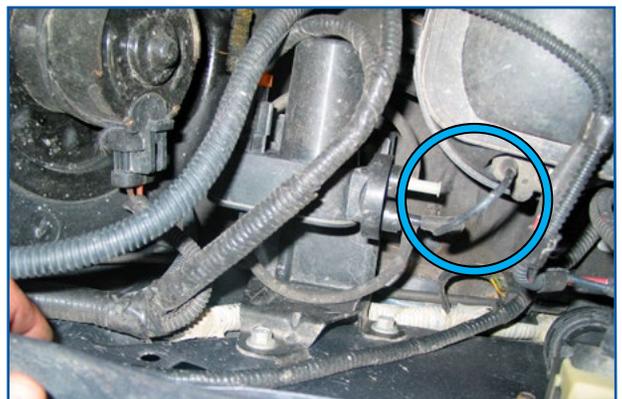
## GETTING STARTED

**Thank you and congratulations on your purchase.**

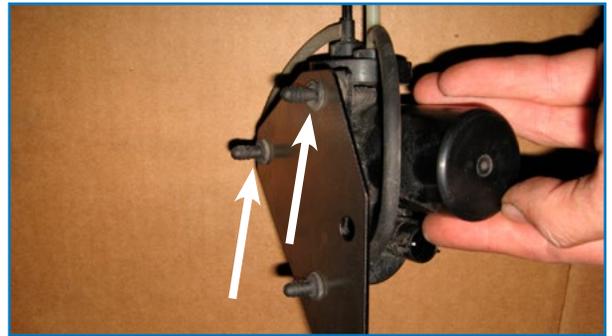
Before starting the installation, please read the entire installation manual carefully and be sure you have a full understanding of the installation. Check that your kit is correct for the application and your kit contains all the necessary parts shown in the photo to the right



- 1** Disconnect the two wires (RED and BLACK) connecting the original air compressor to the harness.
- 2** Disconnect the nylon air supply line from the original air compressor and the air intake breather nylon line from the barbed fitting.
- 3** Remove and discard the original air compressor.
- 4** On the passenger's side inner fender, locate and disconnect the short vacuum hose routed from the vacuum pump to the vacuum reservoir. Disconnect the electrical connector of the vacuum pump. Using a 10mm socket, remove the two bolts attaching the pump and bracket to the inside fender. Remove pump from the vehicle.

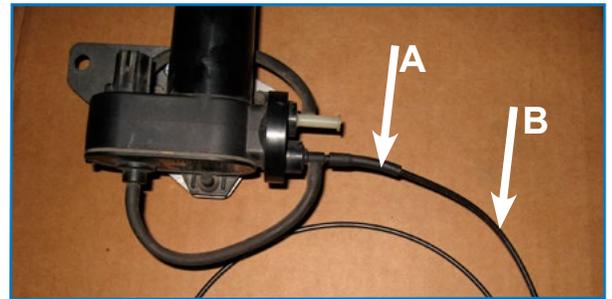


- 5** Remove the vacuum pump from the factory bracket, leaving the rubber isolators attached to the vacuum pump. Install the vacuum pump on to the supplied bracket as show in photo.



- 6** Install the supplied short piece of rubber vacuum hose onto the vacuum pump. Insert one end of the supplied 1/8" nylon hose into the rubber hose, as shown in photo.

Rubber hose marked "A"  
Nylon hose marked "B"



- 7** Insert the two supplied M8x40 capscrews and washers through the bracket and then the two spacers. Carefully insert the vacuum pump assembly onto the radiator support brace - making sure to not kink the vacuum hose. Torque the two capscrews into the threaded holes to 13 ft-lbs (18 N•m). Route the 1/8" nylon hose back to the port on the vacuum reservoir, cut off excess hose and install into the other port on the reservoir. Using the supplied tie-straps, secure the hose away from moving parts and heat sources.



- 8** Locate the vacuum pump electrical connector disconnected in step 4. Cut the two wires 4" back from the connector. Using the lengths of BLACK and GREEN wire and the butt connectors provided, extend the harness to enable the connector to reach the new vacuum pump location. Once the butt connectors are crimped, heat the connectors to provide a moisture tight seal. Protect the harness with the conduit provided and secure with tie-straps.



- 9** The air compressor mounting bracket mounts in the same location the vacuum pump was removed from. Insert the two supplied M8x40 capscrews and washers through the bracket and then the two spacers. Shown in the photo is the air compressor bracket. It needs to be installed UNDER the foot for the vacuum reservoir. This requires the nuts in the wheel well to be loosened enough to lift the reservoir so the notch in the compressor bracket can be inserted under the reservoir foot. Once the compressor bracket is under the reservoir foot, loosely thread the M8x40 capscrews into the inner fender. Tighten the vacuum reservoir nuts and then torque the M8x40 capscrews to 13 ft-lbs (18 N•m).

**Note: The notch in the compressor bracket must be UNDER the vacuum reservoir foot.**

- 10** Install the compressor on to the 3 mounting studs of the bracket, using the supplied washers and nyloc nuts, torque to 35 in-lbs, (4 N•m). Install the one way check valve provided, then the fitting removed from the original air compressor. Use thread sealant on both fittings to ensure no air leaks exist. Connect the nylon air supply line from the tee fitting of the pressure switch to the compressor outlet port.

Connect the air intake breather nylon line to the 90° fitting on the side of the air compressor.

Connect the RED and BLACK wires of the replacement air compressor to the RED and BLACK wires of the harness. Secure wires and hoses away from moving parts or heat sources.

Test the system for proper operation and check for air leaks, repair as necessary.

