

/// PACBRAKE®

Installation MANUAL



C44086

HP325 PACBRAKE COMPRESSOR CONVERSION

APPLICATIONS:

DODGE 2003 - 2007 5.9L CUMMINS

Compressor Replacement Instructions for C14030, C14045, C44030, C44045, C44049 & C44052 with Air Tank

KIT CONTENTS



Make sure all the items shown in the photo are provided in your kit before starting the installation

KIT CONTENTS

- | | |
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| <ul style="list-style-type: none"> A Compressor Assembly (1) B M8 Flat washer (2) C Small OD Spacer (2) D Large OD Spacer Tube "short" (1) E Quick Connect Assembly (1) F M8 hex bolt (1) G Large OD Spacer Tube "tall" (1) H M8 Allen head capscrew (1) | <p>AIRLINE ASSEMBLY</p> <ul style="list-style-type: none"> I Blue Breather Line (1) II Breather Assembly (1) III Replacement Filters (2) IV Nylon Airline (1) V Tie Straps (6) |
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REQUIRED TOOLS

- 10mm & 17mm open end or box wrenches
- Torque Wrench
- 6 mm Allen Wrench
- Ratchet with 17mm deep well socket and 10mm shallow socket
- Heavy Duty Drill
- $\frac{5}{16}$ " socket on Drill Driver
- Pipe Thread Sealant
- Razor Blade
- Safety Glasses
- Spray Bottle with Dish Soap/Water

INSTALLATION MANUAL - HP325 PACBRAKE COMPRESSOR CONVERSION, L6043

Prior to installation, please read the entire manual to ensure you can complete the installation once started.

IMPORTANT: This kit is designed to replace the 275C Viair compressor with a 1/2 gallon air tank provided in Pacbrake exhaust brake kits. Installing a larger air tank will make the compressor work beyond it's duty cycle. Consult Pacbrake at 800.663.0096.

BEFORE STARTING:

Ensure the application information is correct for the make, model and year of the vehicle you are installing it on. This kit is for vehicles that had an engine mounted 275C Viair compressor with an air tank.

REMOVAL

- 1** Remove the factory capscrew holding the oil dip stick tube to the air intake horn. This bolt will not be reused. A new fastener, washer and spacer is supplied in the kit and will be installed in step 5.
Remove the existing airlines at the compressor and solenoid valve.



- 2** Disconnect the weather-pac electrical connectors to the compressor. Remove the three capscrews that hold down the compressor. Retain the spacers under the compressor bracket as they will be reused.
Remove the compressor assembly from the engine.



- 3** Remove the remaining bolt holding the TPS sensor housing to the engine head, shown by an arrow. This bolt will not be reused as new fasteners is supplied.

NOTE: Some vehicles will not have this bolt to remove.



- 4** Choose the 3 correct length spacers for your application and position them over the forward 3 mounting locations. Place one small OD spacer on the air intake horn. (Shown with arrows)

NOTE: Short spacers for engines with the TPS mounted to the engine (shown) or long spacers for vehicles without TPS mounting bracket.



- 5** Install the compressor assembly over the 4 spacers. Obtain the best clearance of the compressor to coolant hose and compressor to intake horn as possible. Torque the 3 large capscrews (shown with arrow, under the compressor) to approximately 32 ft-lbs, (43 N•m). Torque the allen head carp screw to 18 ft-lbs 24 N•m.



Place the small OD spacer provided over top of the mounting hole for the oil dip stick. Using the longer M8-1.25x30mm bolt provided, mount the dip stick tube to the spacer and torque to 15 ft-lbs, (20 N•m).



- 6** Connect the airline that is routed to the exhaust brake to the open fitting on the solenoid. Connect the airline running to the air tank to either of the open fittings on the compressor head.

NOTE: The fitting underneath the compressor is for the breather line that will be installed in step 8.

NOTE: *The blind port on the compressor head facing the rear of the vehicle remains open.*



- 7** Consult with the customer for a preferred location for the quick connect airline coupler. Route the supplied airline to this location and connect to the coupler. Connect the other end to the remaining fitting at the compressor head.



- 8** Located behind the driver side head light (looking down) you will find a hole in the cross member, shown by an arrow in the photo. Attach the BREATHER tube to the filter housing and clip the filter into this hole. Route the line back up to the compressor and attach to the fitting under the compressor.



- 9** Secure all wires and airlines away from moving parts and heat sources. Turn the ignition on and allow the compressor to fill the air tank until it shuts off. Using a spray bottle of soap and water, check all connections for leaks.