

/// PAC BRAKE®

Installation MANUAL



REMOTE OIL FILTER RELOCATION KITS
HP10006, HP10016, HP10007, HP10125,



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

NOTE: Oil Filter Not Included

HP10006
 1994 to 2002 Dodge Ram c/w
 Cummins 5.9L Diesel Engine
 with 1"- 16 UN Oil Filter Threads.



HP10016
 2003 to 2007 Dodge Ram c/w
 Cummins 5.9L Diesel Engine
 with 1"- 16 UN Oil Filter Threads.

2007½ to 2009 Dodge Ram c/w
 Cummins 6.7L Diesel Engine
 with 1"- 16 UN Oil Filter Threads.

**CAUTION, inner fender well must be modified to provide filter clearance*



HP10007
 Universal Kit for Vehicles with a
 Cummins 3.9L/5.9L Diesel Engine with
 1"- 16 UN Oil Filter Threads.

HP10125
 Universal Kit for Vehicles with a
 Cummins - M27x2.0 Oil Filter Thread

HP10174
 Universal Kit for Vehicles with a
 1½"- 16 UN Oil Port

**These kits are without a replacement
 filter head mounting bracket.**

Thank you and congratulations on your purchase of a Pacbrake remote oil filtration relocation kit

Using the chart below, confirm the kit provided is correct for the vehicle it is to be installed on

HP10016 - 2003–2007 Dodge Ram trucks with a Cummins 5.9L diesel engine with 1" x 16 UN Oil Port

HP10016 - 2007½–2009 Dodge Ram trucks with a Cummins 6.7L diesel engine with 1" x 16 UN Oil Port
(CAUTION, inner fender well must be modified to provide filter clearance)

HP10006 - 1994–2002 Dodge Ram trucks with a Cummins 5.9L diesel engine with 1" x 16 UN Oil Port

HP10007 - Universal design for Cummins engines with 1" x 16 UN Oil Port in an application other than the two listed above. This kit is without a filter head mounting bracket

HP10125 - Universal Kit for Vehicles with a Cummins - M27x2.0 Oil Port

HP10174 - Universal Kit for Vehicles (except RAM) using Cummins 5.9L or 6.7L engines with 1½" x 16 UN Oil Port

Before starting, please read this entire manual to ensure you have a good understanding of the installation procedure.

- 1 Remove the existing oil filter and recycle

STEP 1



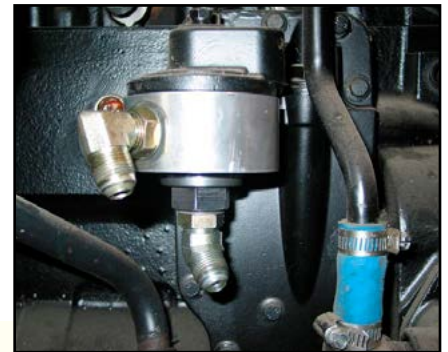
- 2 Locate the Pacbrake replacement filter head assembly. Make sure both the seals are in place. Prior to installation, put a light coat of clean engine oil on both seals. Loosely install on the engine by turning the filter head retaining nut. Do not tighten the nut until Step 3 to allow for final adjustment with the fittings installed

STEP 2



- 3 Locate the 90° fitting provided. Ensure the lock nut is threaded all the way on to the fitting and the seal is in place. Install it into the side port of the replacement filter head pointing down.
Locate the 45° for HP10016 installations, and the straight for HP10006 installations, and install into the bottom port. (HP10016 shown in photo)
Rotate the replacement filter head assembly and fittings to attain maximum clearance for hose routing. Tighten the filter head retaining nut as you would for a new filter installation. Position and tighten both fittings

STEP 3



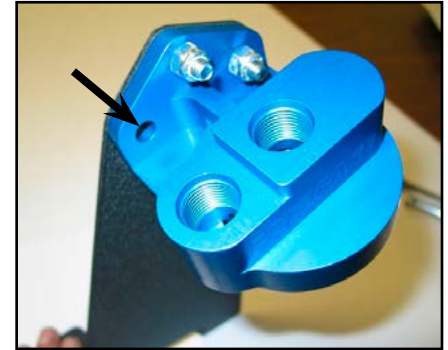
STEP 4

- 4 Using the fasteners provided, secure the remote filter head to the mounting bracket (as shown in the photo).

HP10006 Installations Only:

Do not install a fastener in the far left hole. This is for mounting the bracket through the frame (Step 6).

NOTE: *HP10007, HP10125, HP10174 universal kits do not provide mounting bracket or location.*



STEP 5

5 **HP10016 Installations Only:**

Install the two remaining 45° fittings into the remote filter head, keep in the protective cover on the exposed fitting end. At the stabilizer bar, locate the 2 capscrews shown in the photo, remove both and install the filter mounting bracket between the stabilizer bar clamp and the head of the capscrew. Install the wellnut, flat washer and bolt provided, into the upper hole in the Pacbrake bracket and through the pre-existing hole in the frame. Torque both sway bar capscrews to 45 ft-lbs 61 N•m and the wellnut to 35 in-lbs 3.8 N•m.

NOTE: *Two different sizes of wellnuts and bolts are supplied due to variances in frames. Choose the wellnut that fits the tightest.*



STEP 6

6 **HP10006 Installations Only:**

Install the remaining 90° fitting in the outer port and the 45° fitting into the center port, keeping the protective cover on the exposed fitting ends. At the stabilizer bar, locate the 2 capscrews shown in the photo, remove both and install the filter mounting bracket between the stabilizer bar clamp and the head of the capscrew. Install the 5/16" X 3" bolt through an existing hole in the frame, then through the mounting bracket and filter head. Finally, install the nut provided. Torque both stabilizer bar capscrews to 45 ft-lbs 61 N•m and then 5/16" fastener to 25 ft-lbs 34 N•m.



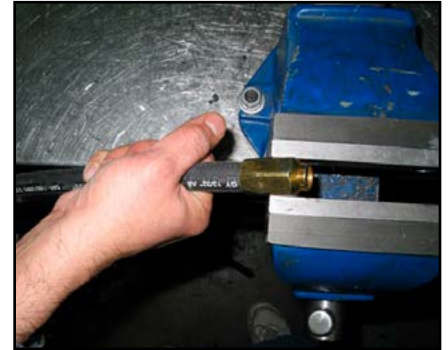
STEP 7

- 7 Measure the length of lines required, cut the hose line provided to the desired length with a hacksaw. The center fitting at the replacement filter head assembly goes to the center fitting at the remote filter head and the outer fitting at the replacement filter head assembly goes to the outer fitting at the remote filter head (HP10006 shown in photo)



8 With the oil supply and return lines cut to length, install the compression fittings. Install the outer nut of the compression fitting into a vise, insert the end of the line turning it counter clockwise until it bottoms, then turn it back (clockwise) ½ turn. Apply clean engine oil to the taper and threads of the inner compression fitting then screw the nipple assembly into the outer nut using a wrench until the nipple shoulder contacts the outer nut. Repeat on both ends of each oil line.

STEP 8



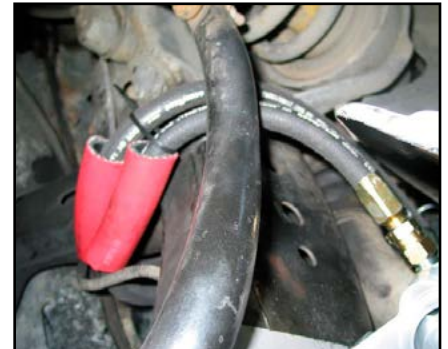
9 **VERY IMPORTANT:** Blow out the lines from each end with shop air to remove all debris. Check the volume of air exiting each to ensure no restrictions exist.

STEP 9



10 Install the oil lines from the replacement filter head assembly to the new remote filter head as determined in Step 7. If necessary, secure the lines with the tie-straps provided, protecting the oil lines from heat sources and moving parts.

STEP 10



11 Install a new oil filter. It is a good idea to fill the new oil filter with clean engine oil prior to installation. The Pacbrake remote filter head is designed for use with the factory part number oil filter. Double check all the fittings to ensure they are tightened adequately before moving to Step 12.

12 Start the vehicle and allow it to idle while watching the oil pressure gauge. Once the engine oil pressure is in the NORMAL range, check the entire system for oil leaks.

Congratulations! You have completed the installation.