

/// PAC BRAKE®

Installation MANUAL



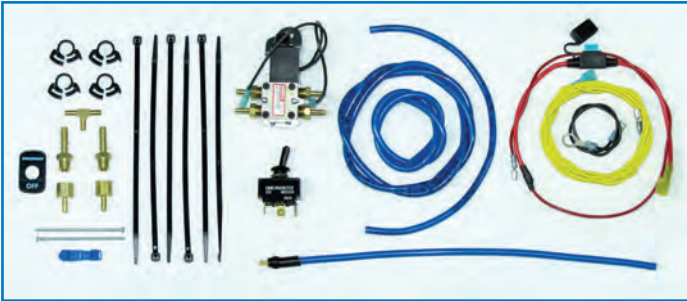
C18056 - 4WD 2 WHEEL LOW KIT FOR 1994-2002 DODGE RAM 4WD VEHICLES

Pacbrake's 4WD 2 Wheel Low Kit allows the vehicle operator to engage the transfer case into 4WD low range without engaging the front wheel drive, allowing the vehicle to maneuver a trailer into a tight area without the wheel hop associated with a 4 wheel operation

Getting Started

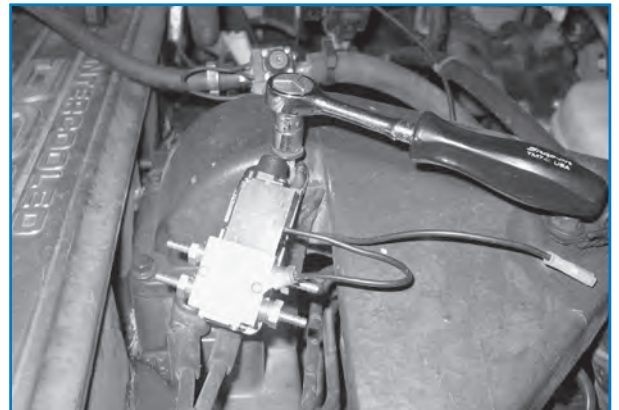
Thank you and congratulations on your purchase of Pacbrake's 4WD 2 Wheel Low Kit.

- 1 Before starting, check that the kit contains everything shown in the photo.

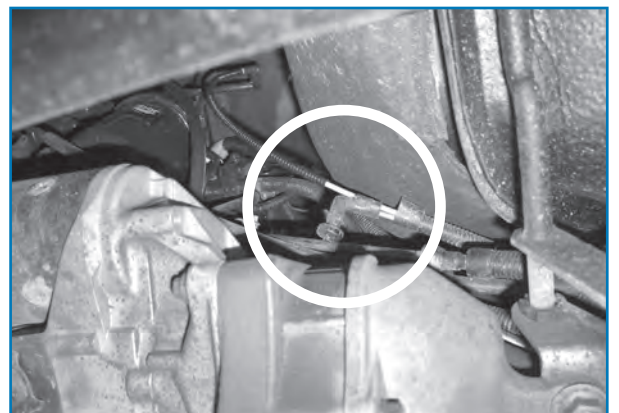


- 2 Install the solenoid assembly on the rear air intake horn using the existing capscrew.

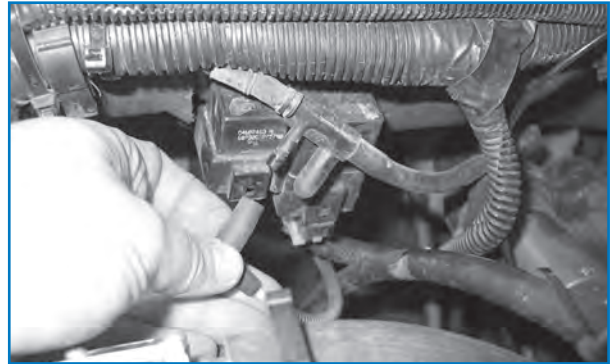
If there is a previously installed solenoid assembly for your exhaust brake located on the rear capscrew, it is permissible to install this assembly on the opposite side capscrew.



- 3 Locate transfer case vacuum lines adjacent to transmission above starter on driver's side of vehicle (green line = vacuum vent / white line = vacuum source)



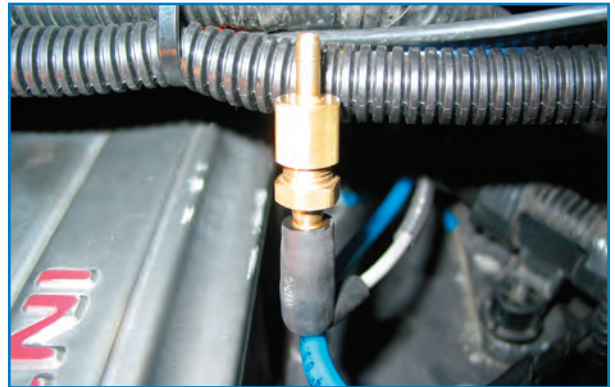
- 4 Locate the main vacuum source. This connection varies between model years. Follow the WHITE line beside the starter up to the firewall cowl to locate the main vacuum source.



- 5 Locate the two supplied 1/4" barbed male brass fittings and the two supplied 1/8" female brass fittings. Thread the male and female fittings together using Teflon tape or thread sealant and tighten



- 6 Locate one of the two brass fittings assembled in step 5. Connect the white vacuum line removed in step 5 to the barbed end. Locate the short blue nylon line supplied and connect to the other end of the fitting. Connect the blue nylon line to the Pacbrake solenoid port #2.

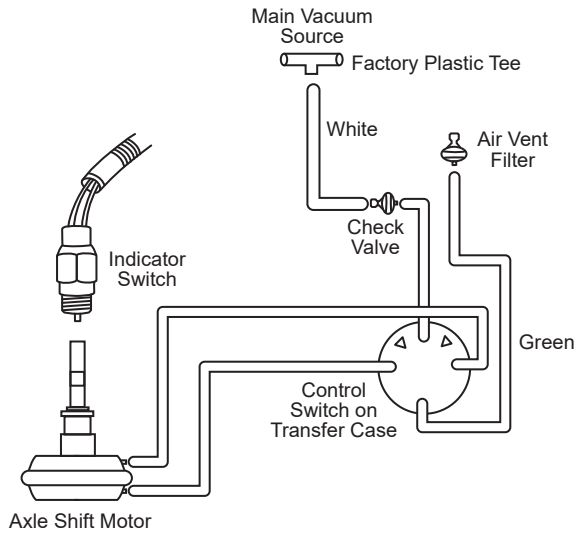


- 7 Using the short hose with breather vent installed, connect to port #3 of the solenoid valve. Route this breather to a location free from water and dirt.

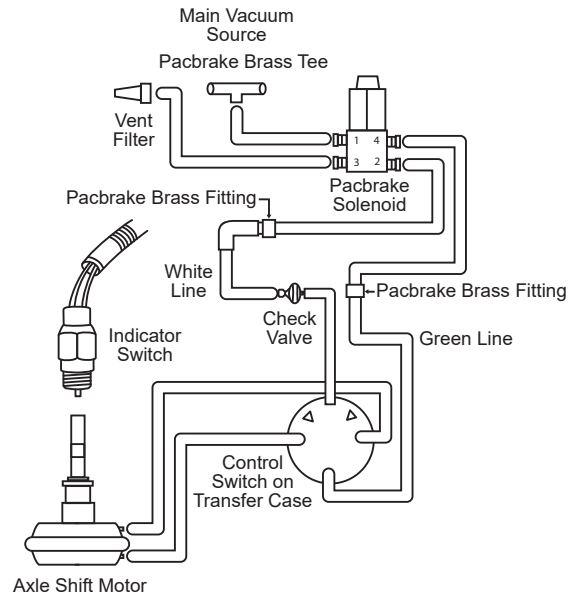


4 Wheel Drive Vacuum Control System

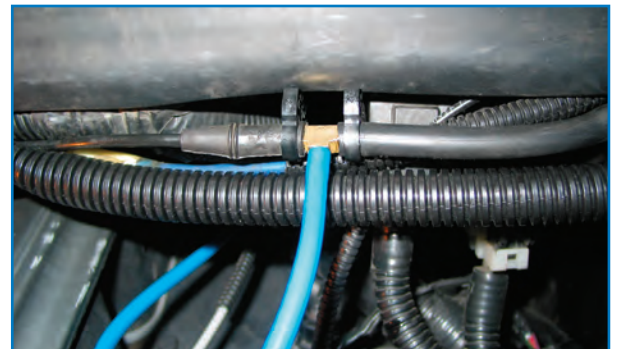
BEFORE KIT INSTALLED



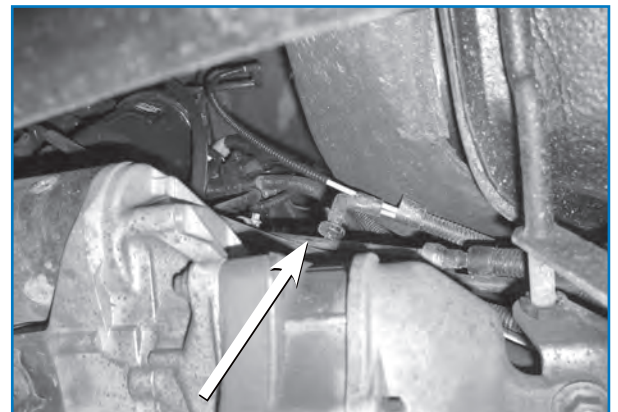
AFTER KIT INSTALLED



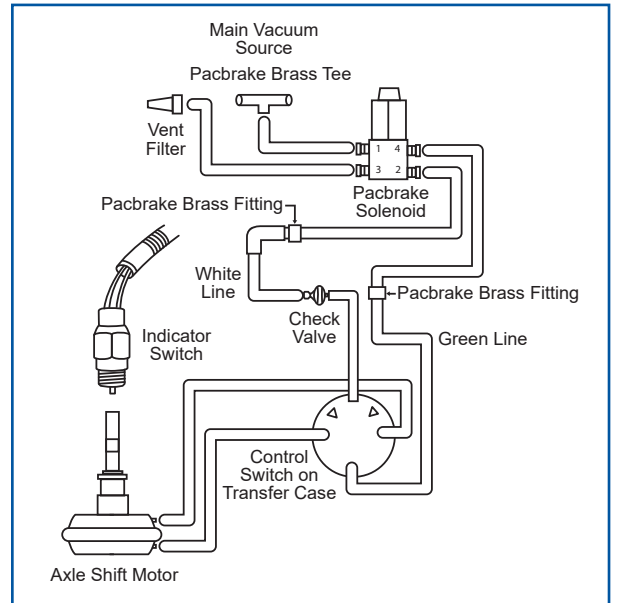
- Attach the other short blue nylon line supplied to the middle port of the supplied brass tee fitting. Remove the existing plastic tee fitting from the main vacuum source line and replace with supplied brass tee fitting and line. Secure with supplied nylon hose clamps as needed. Connect this blue line to port #1 of the vacuum solenoid.



- Remove air vent filter from 90° rubber elbow at the end of the green vacuum line.



- 10** Connect the long, blue nylon, line to port #4 of the solenoid and route the other end to the elbow on the existing green line. Using the other 1/4 x 1/8 (male/female) fitting assembled in step 5, insert the larger 1/4" barbed side into the rubber 90° hose end. Connect the smaller side to the blue nylon hose from port 4 of the solenoid. Secure all hoses with tie straps provided.

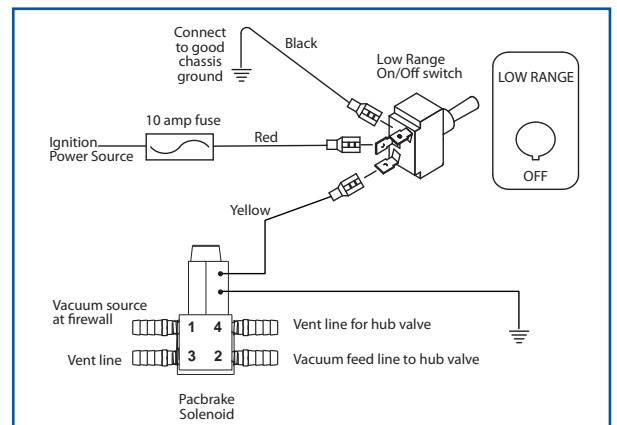


Dash Switch and Wiring Installation

- 11** Consult with the vehicle owner for their preference on the location of the ON/OFF switch. Drill a 1/2" hole to accommodate the switch. Connect the wires to the dash switch (as shown in the schematic at step 11) and install the switch.



- 12** Locate a 12 volt ignition power source with a 14 to 16 gage wire diameter and connect the "T" tap terminal. Insert the male terminal of the RED wire into the "T" tap. Connect the black to a good chassis ground. Route the yellow wire of the harness through the firewall boot into the engine compartment. Recover this wire and route it and connect to the solenoid. Secure with tie-straps provided.



Check Operation

Start the vehicle, engage the transfer case into 4-low and slowly start moving the vehicle forward turning the wheel hard in one direction. The 4WD light should come on and you should feel the front end hop as normal.

Stop the vehicle, turn the front wheels straight and engage the 4WD 2 Wheel Low switch, the light should come on in the dash switch. Wait until the 4WD light on the dash goes out, this indicates 2WD. Now slowly start moving the vehicle forward turning the wheel hard in one direction. You should not feel front wheel hop as before.

Important

When the low range system is engaged the 4WD light will NOT be on in the dash panel, only the RED light in the low range dash switch will be on. Remember to disengage both the 4WD 2 Wheel Low switch and the 4WD switch or lever to 2WD before driving away. This system is designed for low speed maneuvering when high torque is necessary only.