R-150 (Light Utility Vehicle)

Auto Choke to Manual Choke Conversion

Tools Required:

Phillips Screwdriver	Electric or Cordless Drill
Side Cutters	¼" Drill Bit
10mm Wrench	15/32" Drill Bit

1) Remove auto choke from carburetor
   a. Disconnect from wire harness.
      - **Note:** The connector may be found inside or outside of the main electrical box. If it is inside the electrical box, remove the box cover by lifting the two rubber plugs to reveal two Phillips screws, remove the screws, and lift the cover. Once the auto choke is disconnected, the cover can be replaced by reversing this process.

   b. Remove two Phillips screws and lock washers. Retain for later use.
   c. Separate the auto choke from carburetor.
   d. Remove and discard the special O-ring found between the auto choke and the carburetor.

** *Although the housings of the auto choke and the new manual choke appear similar on the outside, there are internal differences. Take caution to keep them separate* **







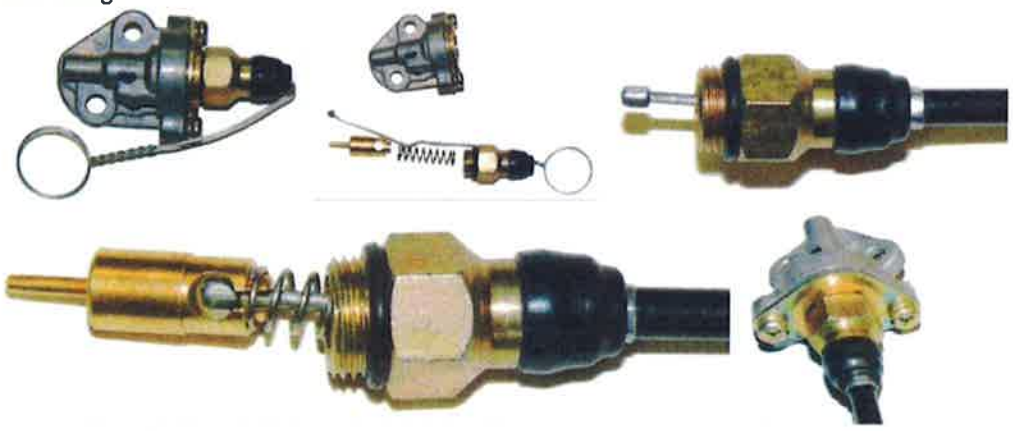
2) Install the choke cable
   - **Note:** The cable can be installed in many positions. These installation instructions outline our recommended location, which is the passenger side of the parking brake under the seat. If you would like to mount it in a different location, apply these directions to that position.

a. Locate a suitable position.
b. Use the reinforcing plate as a template to mark the 4 mounting holes and the 1 choke cable hole.
c. Set the reinforcing plate aside and using a 1/4" drill bit, drill out the 4 mounting holes.
d. Using a 15/32" drill bit, drill out the choke cable hole.
e. Install the reinforcing plate on the inside or outside (pictured) using the 4 #12 screws, washers, and nuts provided. (if mounting the plate on the inside use washers on the outside.)
f. Remove the nut completely from the choke cable leaving the small spacer on the cable.
g. Pass the choke cable through the mounting hole in the reinforcement plate and mounting surface. Re-install and tighten the nut to secure the cable. Hand tight is sufficient.



3) Attach the choke cable to the manual choke assembly.
a. Using a 14mm wrench remove choke cable fitting from the choke assembly. The spring, plunger, O-ring and choke cable seal will come with it. The wire tie is for shipping purposes only and can be discarded at this time leaving the spring and plunger as loose pieces.
   - **Note:** To ease installation, ensure that the choke cable is fully extended past the cable sheath. To do this, make sure the choke knob is pushed in, the tension nut is fully tightened, and you are holding the cable as straight as possible.

b. Insert the choke cable into the fitting through the seal.
c. Slide the spring over the cable end.
d. Compress the spring and insert the cable end into the plunger opening. The spring should nest on the plunger.
e. Find a comfortable routing (no sharp bends), and then install the entire fitting assembly back into the housing. With a 14mm wrench, tighten until the cable fitting rests against the choke fitting and the O-ring is compressed between the two.
f. Check cable operation by first exercising the cable multiple times. Take hold of the cable sheath and move it in and out of the choke cable fitting. There should be some free play. If there is not, try a different cable routing and make certain that the cable fitting is seated completely into the choke fitting.



4) Install the manual choke assembly
   a. Carefully position the special O-ring between the choke and carburetor assemblies.
   b. Position the choke assembly on the carburetor and secure it with the two Phillips screws that were removed previously.







5) When cable is routed zip tie to frame to secure from any hot, sharp, or moving objects.

