

# LP Furnace Regulator/Solenoid Replacement

## Do-it-Your-Self Instructions

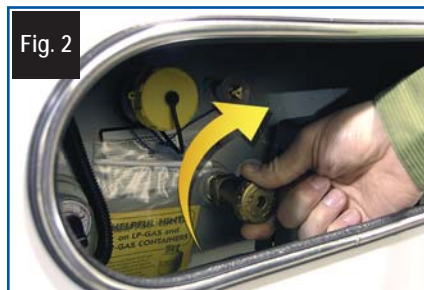


**Parts**  
 Regulator (22100030)  
 And/or  
 Solenoid (22100037)  
 Nipple 3/8-inch (22080012)

**Tools**  
 Adjustable wrench  
 3/4-inch wrench  
 11/16-inch wrench  
 Pipe dope  
 Visé  
 Phillips screwdriver



**Step 1:** Turn off LP detector inside truck next to furnace. *Fig. 1*



**Step 2:** **Caution:** *Shut off gas before removing any gas lines or fittings.* Turn shut-off valve clockwise to close connection to LP tank as shown in *Fig. 2*



**Step 3:** Locate and remove the plastic housing around your regulator. *Fig. 3*



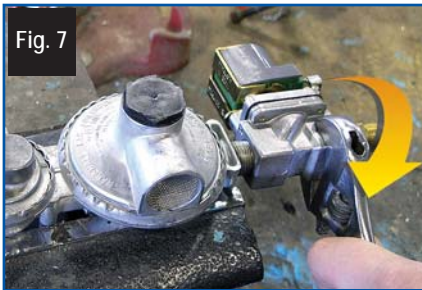
**Step 4:** Unhook the gas line going to the solenoid using the 11/16 and 3/4-inch wrenches. *Fig. 4* Gas line will turn counter-clockwise to loosen. **Note:** *If copper gas line is present, be careful not to bend. If copper kinks or fractures you will need to replace gas line.*



**Step 5:** Disconnect the orange (+) or yellow (+) and black (-) wire from the solenoid. *Fig. 5*



**Step 6:** Use an adjustable wrench to loosen up the nut from the regulator to the LP tank gas valve. It will turn clockwise to loosen. The regulator and solenoid should not turn, so you must keep turning the nut. Remove entire unit shown in *Fig. 6*



**Step 7:** Mount the regulator in a vise. *(CAUTION: do not over tighten vise, it may crack regulator)* Remove solenoid by turning counter-clockwise. *Fig. 7* It may turn with some difficulty. *(If replacing solenoid, remove brass fitting and put on new solenoid.)*



**Step 8:** Put joint compound (Pipe Dope) on the new nipple. *Fig. 8* Thread regulator nipple solenoid and brass fitting together. Tighten until snug. *Fig. 9* *(CAUTION: over tightening may result in a cracked regulator)*



**Step 9:** Remove the finished regulator/solenoid assembly from the vice and reattach the furnace gas line to the solenoid (Reverse Step 4, Fig 4) making sure that the fittings are properly seated before tightening. *(Caution: DO NOT OVER TIGHTEN)* Reconnect the orange (+) or yellow (+) and black (-) wires to the solenoid (Reverse Step 5, Fig 5)

**Step 10:** Reattach the regulator assembly to the LP tank gas valve. (Reverse Step 6, Fig 6) Finger-tighten the regulator nut counter-clockwise to the gas valve before tightening with a wrench. *(Caution: DO NOT OVER TIGHTEN)* Open the LP gas valve (counter-clockwise) and turn on the LP detector inside the truck.