

PILOT ASSEMBLY

MODELS: 125FX, 125HX
425EF, 425HN



WARNING

LP & NG ARE EXTREMELY FLAMMABLE SO
TAKE EXTRA PRECAUTIONS WHEN
PERFORMING ANY WORK TO THE HEATER

Removing pilot assembly

1. Turn off heater (Fig. A)
2. Shut off gas to heater.
3. Remove front cover from heater by pulling off flow knob and unscrewing collar, then lift up cover and pull off.
4. Locate pilot assembly, carefully loosen pilot tube nut with a 8mm wrench (Fig. B). Once loosened, continue by hand.
5. Remove both pilot assembly screws that mount to the front of the burners (Fig. B).
6. Lift up pilot assembly slowly (8mm nut may need to be loosened further).
7. **Caution:** The pilot orifice, shaped like a small thimble, sits on top of the pilot tube. Remove wires from flame sensor and pilot electrode.
8. We recommend replacing the pilot orifice if dirty or clogged, especially LP. If cleaning, use a solvent such as aerosol spray carburetor cleaner and compressed air if available. **Do not enlarge the hole in the pilot orifice.**
9. Blow through pilot burner to ensure it is clear of any debris and clean flame sensor with light sandpaper or emory cloth.

Reinstalling pilot assembly

1. Place new or cleaned pilot orifice back on top of pilot tube.
2. Set pilot bracket on top of pilot tube making sure orifice remains in position.
3. Begin to hand thread the 8mm nut to the pilot assembly being sure not to cross thread. Once started, reattach pilot assembly to front of burners with both screws.
4. Carefully tighten 8mm nut with wrench.
5. Test to ensure no gas leak at pilot: reattach flame sensor wire. Temporarily wrap the end of the electrode wire carefully with electrical tape to prevent sparking, turn on gas and heater. Use gas detector or apply soap solution to 8mm nut connection. Initiate water flow, bubbles are a sign of a leak.
6. If no leaks are found, remove tape and reconnect pilot electrode wire, wait 5 minutes, initiate water flow, pilot will light normally followed by burners.
7. Replace front cover, collar, and flow knob.

