

CHECKING GAS PRESSURE

MODELS: 250SX, 250SXO, 635ES, 635ESO



WARNING

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

Introduction

- In order to meet design capacities of this unit, the gas supply must meet the design requirements.
- It is important to size the gas line to meet the requirements of ALL gas appliances. Please consult the National Fuel Gas Code NFPA 54, or a locally licensed gas technician if you are unsure of the gas line size.
- While testing for adequate gas pressure, all gas appliances should be operated.

Connecting Manometer

1. Shut off gas.
2. Remove front cover and locate inlet gas pressure measuring tap (see Fig. 1).
3. Loosen screw inside the tap (do not remove) and connect manometer tube on test tap.

Static Pressure Test

1. Turn gas supply back on.
2. Operate all other gas appliances on same gas piping system at maximum output.
3. Record static gas pressure reading in Table 1.

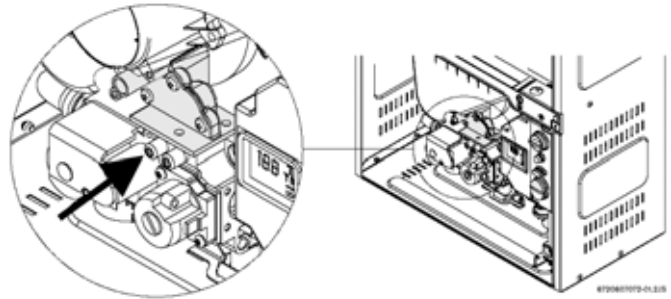
Operating Pressure Test

1. Put ON/OFF switch in the OFF position.
2. Press and hold the "Program" (M) button and turn ON/OFF switch to ON position (Fig. 2).
3. As soon as '188' is displayed, release "Program" button and the display should read 'P2'.
4. Press the '+' button, until P1 appears (Fig. 2).
5. Turn on a high volume of hot water flow (at least 6 gpm) and the heater will ignite.
6. Record operating gas pressure in Table 1.

Common Reasons for Low Gas Pressure

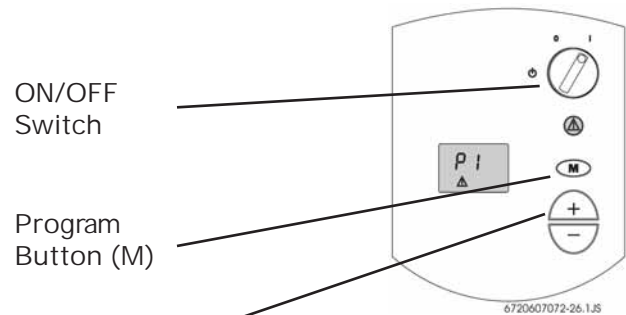
- Gas connector is not 3/4".
- Gas line was not sized large enough. Most often in retrofit applications.
- The gas filter on the bottom of the unit is clogged with pipe dope or other debris.
- Gas meter or regulator is not set to deliver enough gas or is defective. Have gas or propane supplier verify proper operation.

FIGURE 1



Gas pressure measuring tap (left tapping)

FIGURE 2



"+" Button

TABLE 1

Static Gas Pressure: " WC

P1 Operating Pressure: " WC

Gas pressures lower than 5" W.C. for Natural Gas or 11" W.C. for Liquid Propane will result in insufficient degree rise to the hot water being used and must be corrected.