

3 Troubleshooting *(continued)*

Gas valve adjustment procedure

If adjustment of the gas valve is deemed necessary, use the following procedures: (**Note:** The procedures below are model specific.)

CAUTION

Under normal operating conditions this valve should not need adjusting.

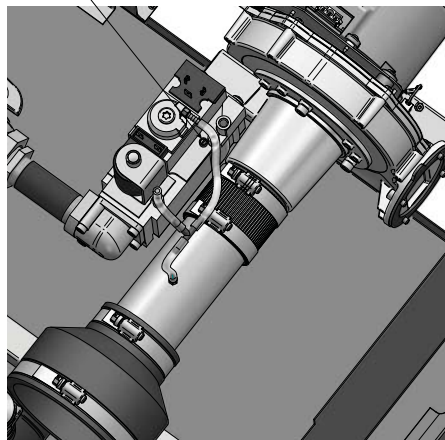
Model 399

Locate the throttle adjustment screw on the top of the gas valve, see FIG. 3-2. Using a screwdriver, turn the screw 1/8 turn **counterclockwise** to increase CO₂ levels or 1/8 turn **clockwise** to decrease CO₂ levels. After one adjustment on the valve, follow the Combustion Analysis Procedure on page 40 of this manual to measure the combustion.

If combustion is still not within the specified range, repeat the procedure. This procedure **SHOULD NOT** be performed more than four (4) times. If after four (4) adjustments and the combustion is still not within the specified range, revisit the possible causes in Table 3G on page 40 or replace the gas valve.

Figure 3-2 Gas Valve Adjustment: Model 399

THROTTLE ADJUSTMENT
SCREW



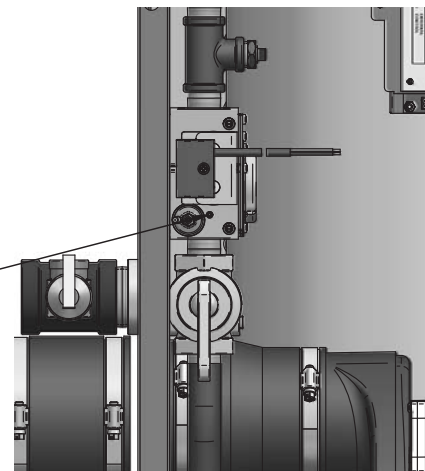
Model 500

Locate the throttle adjustment screw on top of the gas valve, see FIG. 3-3. Using a screwdriver, turn the screw a 1/4 turn **counterclockwise** to increase CO₂ levels or a 1/4 turn **clockwise** to decrease CO₂ levels. After one adjustment on the valve, follow the Combustion Analysis Procedure on page 40 of this manual to measure the combustion.

If combustion is still not within the specified range, repeat the procedure. This procedure **SHOULD NOT** be performed more than four (4) times. If after four (4) adjustments and the combustion is still not within the specified range, revisit the possible causes in Table 3G on page 40 or replace the gas valve.

Figure 3-3 Gas Valve Adjustment: Model 500

THROTTLE
ADJUSTMENT
SCREW



Models 600 - 800

Locate the throttle adjustment screw on top of the gas valve, see FIG. 3-4. Using an Allen wrench, turn the screw a 1/4 turn **counterclockwise** to increase CO₂ levels or a 1/4 turn **clockwise** to decrease CO₂ levels. After one adjustment on the valve, follow the Combustion Analysis Procedure on page 40 of this manual to measure the combustion.

If combustion is still not within the specified range, repeat the procedure. This procedure **SHOULD NOT** be performed more than four (4) times. If after four (4) adjustments and the combustion is still not within the specified range, revisit the possible causes in Table 3G on page 40 or replace the gas valve.

Figure 3-4 Gas Valve Adjustment: Models 600 - 800

THROTTLE
ADJUSTMENT
SCREW
(REMOVE BLUE CAP)

