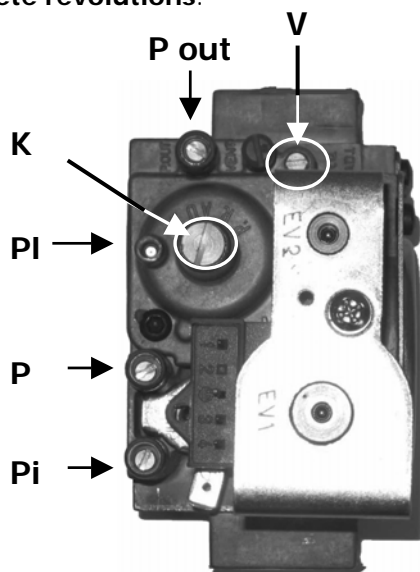


## LP Conversion for Mascot HT 3.30 & HT 1.33 / HT 1.450 & HT 1.650

The following operations must be performed before calibrating the gas valve.

1. For the **HT 3.30 & HT 1.330** turn the adjuster screw (V) (2.5mm hex) on the gas valve clockwise **four complete revolutions**. For the **HT 1.450**, turn the adjuster screw **three complete revolutions**, and for the **HT 1.650**, **five complete revolutions**.

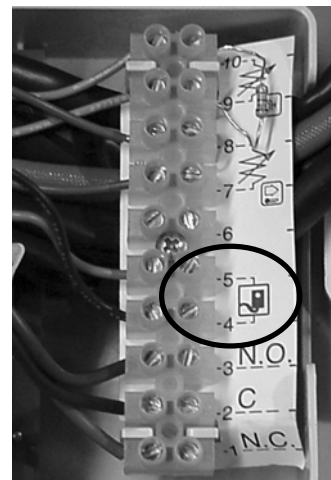


2. On the QAA73 remote control, remove the back cover and connect two field supplied thermostat wires to the black terminal block. These wires are then connected to terminals 4 and 5 of the boiler terminal strip (inside control compartment). For **HT 3.30 & HT 1.330** set parameters **608 to 35%** and **parameter 611 to 3700 rpm**. For **HT 1.450**, leave parameter 608 at 25% and set parameter **611 to 2100 rpm**. For **HT 1.650**, leave parameter 608 at 24% and set parameter **611 to 2000 rpm**.

QAA73



Back Cover



Terminal Strip

### TO SET PARAMETERS:

The editable parameters are those between 504 and 652. Proceed as follows to access these parameters.

1. Simultaneously press keys 1 and 4 on the QAA73 remote control for about 3 seconds. The message "Initializing BMU parameters" appears on the display.
2. Simultaneously press keys 1 and 2 for about 3 seconds. The message "Initializing BMU Service" appears on the display.
3. Press keys 1 or 2 to scroll through the list of parameters.
4. To change the value of a selected parameter, press key 3 or 4 to decrease or increase the value respectively.
5. Press key 5 to enter the new values and exit programming of the boiler.

### Calibration mode:

Proceed as follows to enter "calibration mode" on the boiler control panel and calibrate the gas value.

1. Turn the Mascots control knobs 6 and 7 (figure 26) fully counter-clockwise to their minimum positions as shown in figure 28A.
2. Starting in this position, quickly turn control knob 7 twice consecutively clockwise through about a ¼ turn as shown in figure 28B.

Fig. 26



**Note: LEDs 2 and 3 (figure 29) flash alternately and the display alternates the message "SF" and the boiler output temperature about every five seconds (figure 29).**

3. Now turn knob 6 to adjust fan speed to a setting between minimum thermal power (0%) and maximum power (100%).

**Note: In "calibration mode", the display alternates between the message "P" and the boiler output temperature about every 5 seconds. (figure 30).**

4. Calibration mode remains active for 20 minutes. To exit "calibration mode" before this time simply turn control knob 7.

**Note: This function is interrupted if the central heating delivery temperature reaches its MAX. SETPOINT.**

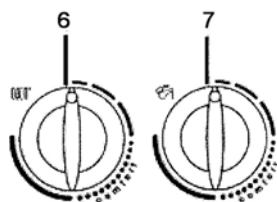


Fig. 28A

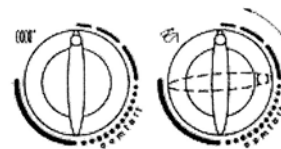


Fig. 28B

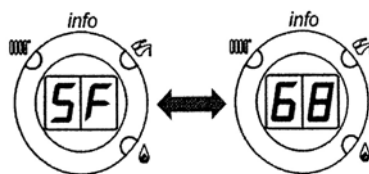


Fig. 29

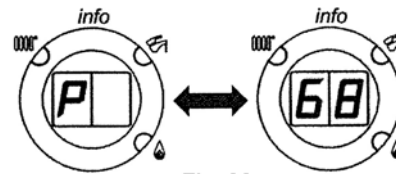


Fig. 30

**Proceed as follows to calibrate the gas valve.**

1. Insure your combustion analyzer is set to LPG, insert probe into flue opening on top of boiler, after removing either of the two ¼ turn plugs.
2. Calibrate maximum thermal power by turning knob 6 clockwise to max. With the boiler operating at max output, check the value for CO<sub>2</sub> measured in the flue to 10.0 CO<sub>2</sub>. If necessary, turn the adjustment screw (V) (2.5 mm hex) on the gas valve. **Turn clockwise to reduce the CO<sub>2</sub> level or counter-clockwise to increase it.**
3. Calibrate minimum thermal power. With boiler operating at minimum output by turning knob 6 counter-clockwise to minimum setting. Check the CO<sub>2</sub> value measured in the flue to 9.8 CO<sub>2</sub>. If necessary adjust screw (K) (4 mm hex) on the gas valve. **Turn clockwise to increase the CO<sub>2</sub> level or counter-clockwise to reduce it.**

Note: Allow time between adjustments for your combustion analyzer to sense the adjusted CO<sub>2</sub> level.

**The boiler is now ready for normal operation using LP gas and can be returned to the service mode by turning control knob 7.**