

Installation Instructions

When connecting the inlet and outlet to pipe or tubing, always support the valve casting ends next to the fitting being tightened. If the control is panel mounted, do not depend on the mounting bracket to support this operation. Distortion of front cover will change calibration. Always mount the control so that the dial shaft is positioned in a horizontal plane. This control does not have a gas cock; it should always be installed downstream from an appropriate gas valve.



CAUTION

THIS DEVICE SHOULD BE INSTALLED BY A QUALIFIED PERSON WITH DUE REGARD FOR SAFETY AS IMPROPER INSTALLATION COULD RESULT IN A HAZARDOUS CONDITION.

Pilot Adjustment - See Figure 1

Make sure the control dial is in the "LOW STOP" position.

1. Turn pilot adjuster key counterclockwise to increase gas flow and light pilot. Adjust flame to desired height.
2. Turn control dial clockwise to light burner. Observe pilot flame height and re-adjust if necessary.

Checking Calibration

All Robertshaw GS thermostats are carefully calibrated at the factory (i.e.: The dial is properly set to control appliance temperatures accurately.) It is recommended that only a qualified appliance service person perform this adjustment.

1. To check appliance temperatures, use a test instrument or reliable oven thermometer. Place the thermocouple of test instrument or thermometer as near to the control sensing element as possible.
2. Turn the control dial to the temperature setting requiring the greatest accuracy. Allow enough time for the temperature to stabilize, or until several temperature readings are identical.

Recalibrate Control As Follows - See Figure 2

1. Remove dial from dial shaft "B". Be careful dial shaft does not rotate in either direction which would change the dial setting.
2. Hold dial shaft "B" steady and with a screwdriver, turn calibration screw "A" clockwise to decrease and counterclockwise to increase the temperature. See table for calibration screw rate of temperature change.
3. Replace dial. Let the appliance operate until the temperature has stabilized before a final check is made to determine whether or not the calibration has been correct.

The chart below shows the approximate effect of ¼ turn of calibration screw "A" with respect to the various temperature ranges.

Appliance Type	Temp. Range In Degrees F.	Recalibrate When Outside These Limits	1/4 Turn in Degrees F.
Oven	200 to 550	±20°	35°
Oven	300 to 650	±20°	35°
Fryer	200 to 400	±10°	18°
Special	100 to 200	±10°	12°
Brooder	70 to 110	±5°	7°
Special	60 to 95	±5°	12°

Figure 1

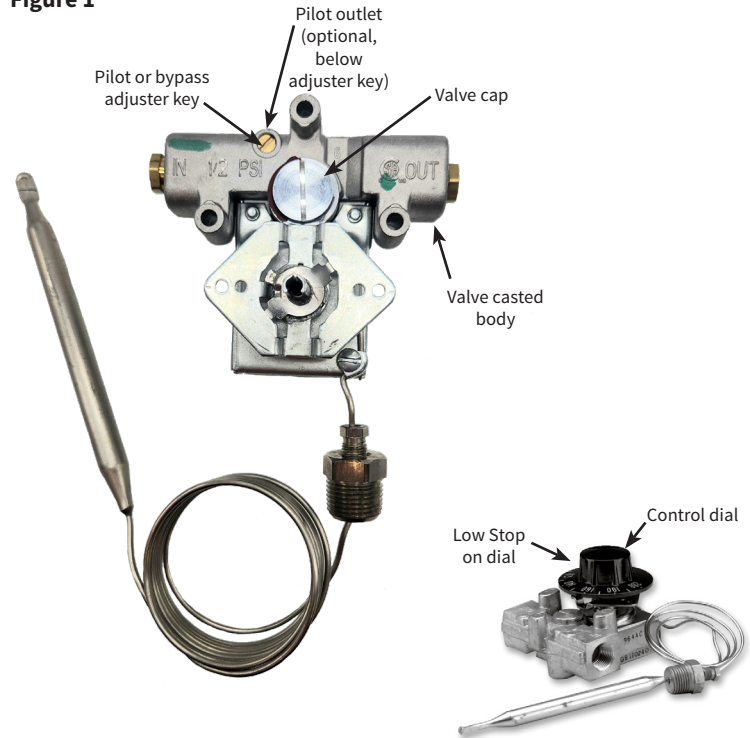


Figure 2

