BULLETIN # B-91-2009-S

From: Parts and Service Department **Date: August 27, 2009**
To: All Authorized Service Agencies

THIS BULLETIN SUPERCEDES BULLETIN NUMBER "B-78-2008-S"
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Product: Garland G, GF, & GFE. , U.S. Range, U series and Sunfire, X series
Subject: Sit Valve Introduction

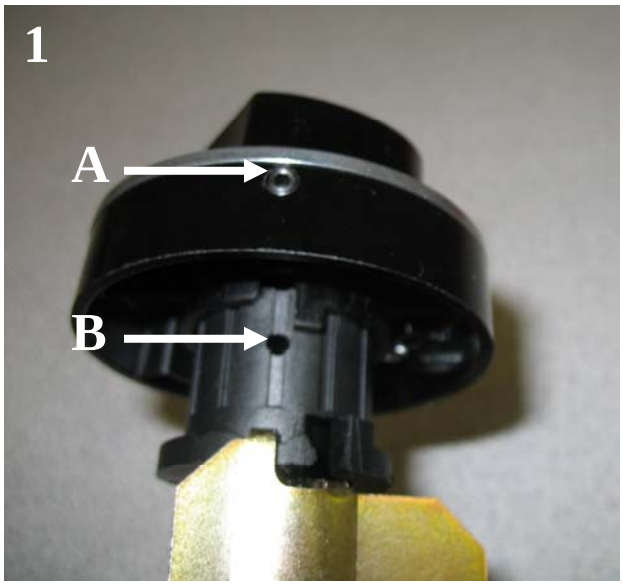
Please find the enclosed updated introduction to the Sit Valve Modulating/Snap Thermostat used in the Garland G, GF, & GFE. , U.S. Range, U series and Sunfire, X series. These instructions will be added to our existing manuals, and they are designed to inform technicians of some common details and the general overview of the Sit Thermostat.

Please contact The Garland/US Range Parts or Technical Service Department with any questions.

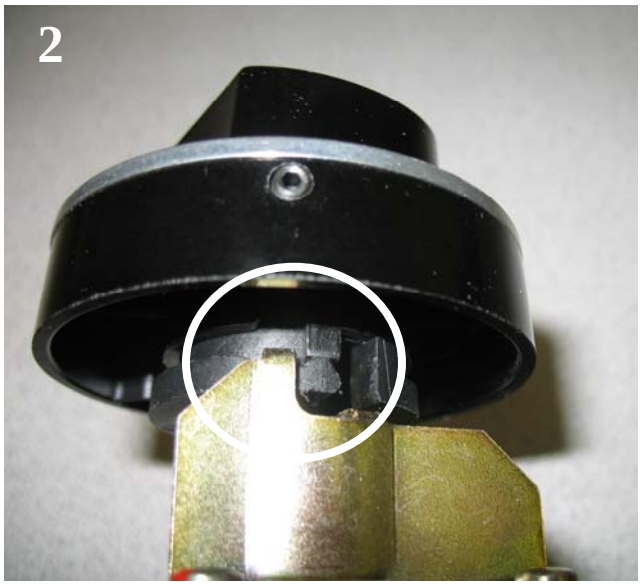
1-800-427-6668 www.garland-group.com Fax: 1-800-361-7745

Sit Valve Field Guide
Garland G, GF, & GFE. , U.S.Range, U series and Sunfire, X series

NOTE#1: FOR GF & GFE SERIES OVEN KNOBS, THE TAB HAS BEEN REMOVED



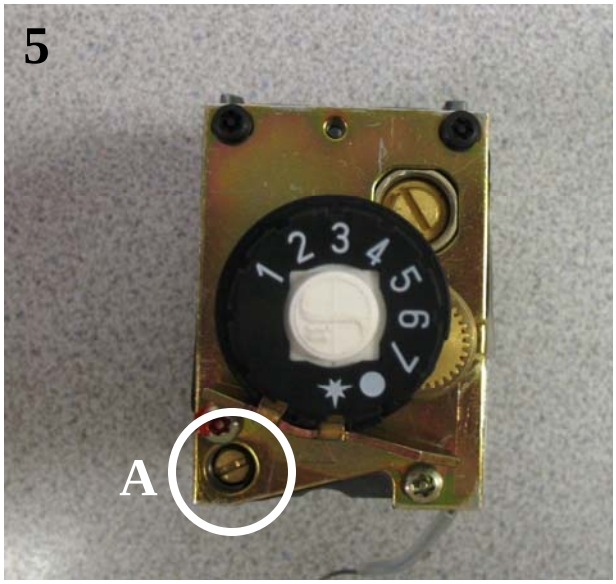
When installing the knob, align the Set screw (a) with the hole on the Hub (b).



When installed correctly, the knob tab extends the hub stop so the Knob cannot be overturned into The area where the pilot is turned Off. (See NOTE#1)

The tab must be intact on the knob For the knob to properly stop as shown in figure 2. If the tab is missing the knob will continue to turn until the pilots are extinguished. If the tab is damaged or missing, replace the knob. (See NOTE#1)

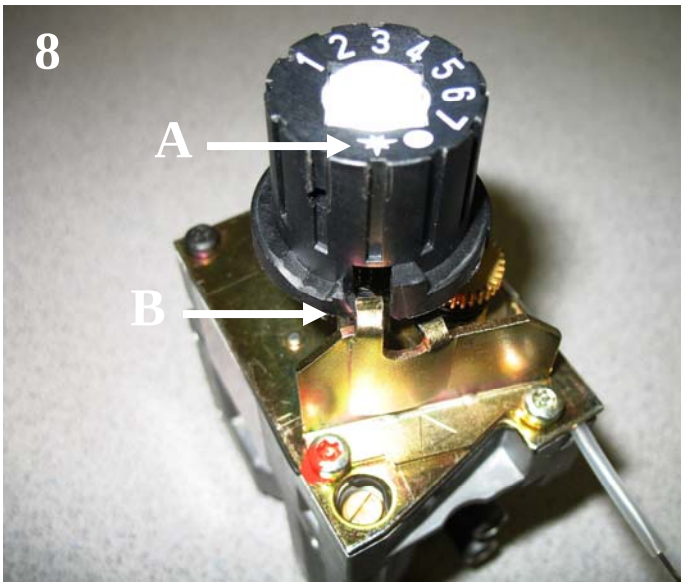
To calibrate the Thermostat, use the two screws on the knob. The factory preset position has the screws centered in the slots. The total range for adjustment is 30 degrees F.
(± 15°F from midpoint setting)



To adjust the pilot size, turn the pilot adjustment screw (A). The pilot flame should be approximately ¾ of an inch long.

No adjustment should be made to the screw circled above.

To shut down all gas to pilots and burners, loosen the knob set screw and gently pull knob off and proceed to figure 8.



With the knob removed, turn the hub until the metal tab (B) lines up with the * symbol (A). With the hub in the position shown, the gas should be off at the pilots and burners. When ready to relight the pilot, turn the hub to the position shown in figure one and push in to light.

Field SIT Oven Valve Calibration Instructions

Applicable to current model series:

- Garland G, GF, & GFE. , U.S.Range, U series and Sunfire ,X series

These are Mandatory Steps for thermostat validation in the field and are a **MUST DO** before replacing. They confirm that the SIT oven Control is working as per specifications or not.

Notes:

1. Oven must be empty, no product
2. Ensure your temperature meter is accurate

Steps	Instructions @ 400°F	
	SIT Control P/N	**4523006**
1	**Manifold Pressure**	**4.5 "W.C. Natural Gas ,10" W.C Propane Gas.** ***Note: 48"& 60" Ranges require a 1" supply***
2	**Thermocouple**	**Place Air T/C in Center of oven cavity**
3	**Set Dial (must be set at 400°F)**	**400°F (take dial to max. and back down to 400F position)**
4	**Start Up**	**Do not take temperature readings first 45 minutes if oven started from cold. Must be preheated and saturated.**
5	**Visual Check**	**Hearth, oven door, pilot flame and ignition, burner flame, bypass flame, Knob and Knob Tab**
Statement	**Accepted Tolerances**	• **Swing temps @ 400°F ± 55°F , (max 110°F)** • **Calibration temperature @ 400°F ± 10°F (390°F to 410°F)** **Note:** ***Calibration Temperature = average of the ON/ Low and OFF/ high values (ON+OFF) / 2***
6	**Monitor Temperature**	**a) Quick step, take 2 successive readings, 5 min from each other. Temperatures must be 400°F ± 10°F. This would be typical for Nat. Gas .If this criteria is met, no further action required. If not continue to B** **b) Read and record consecutively the lowest and highest temperature values. (approx. 20 mins) Temperatures must be 400°F ± 55°F.(this will be more evident for propane units)** **c) The average of high and low values must be 400°F ± 10°F (390°F and 410°F). If not go to step 7**
7	**Additional Calibration if not within accepted tolerance**	**Rotate the dial in small increments until within tolerance and adjust dial following "Knob calibration instructions". Knob calibration can adjust set point by 30°F (± 15°F from midpoint setting)**
8	**Replacement**	**Change control if low and high values exceed 110°F and/or average is not between 390°F and 410°F after Knob Calibration Procedure.**