



S E R V E R

SERVE BETTER™

KIT 05020

REPLACEMENT THERMOSTAT for BS and BSA

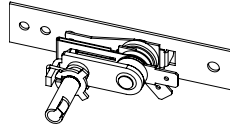
This kit replaces thermostat 81034

used on Butter Server Automatic

120V

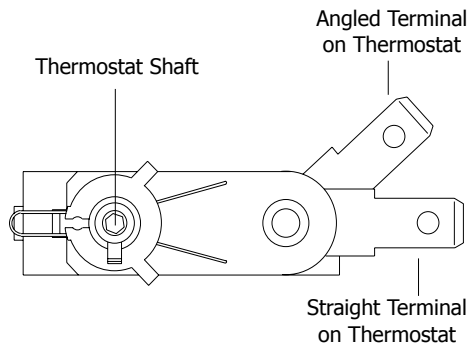
Series prior to 1981

PART	QTY.	DESCRIPTION
05056	1	CUT-OUT, THERMAL ASSY, 184C (OR)
05229	1	KNOB, THERMOSTAT
10001	1	WRENCH, HEX L-KEY, 1.5MM
11152	1	TERMINAL, 18-22, QD,.250, FEMALE
11171	1	NUT, WIRE (QTY 2)
81034	1	THERMOSTAT, 66C
81283	1	BRACKET, REPLACEMENT THERMOSTAT



OLD THERMOSTAT REMOVAL

- 1 TURN UNIT OFF AND UNPLUG CORD. Allow unit to fully cool before proceeding to next step.
- 2 REMOVE PLASTIC DOME, PUMP, AND STAINLESS STEEL BOWL FROM UNIT.
- 3 REMOVE THE TWO SCREWS AT TOP OF OPERATOR'S PANEL.
- 4 REMOVE PICTURE ASSEMBLY.
 - **For units Series 79 or earlier:** Remove the two screws at bottom of picture side and then slide picture down and out.
 - **For units Series 80 or later:** Turn the two black plastic 1/4 turn fasteners at bottom of picture, 1/4 turn counterclockwise, then pull picture down and out.
- 5 REMOVE THE TWO SCREWS AT TOP OF EXPOSED LIGHT PANEL.
- 6 TIP ENTIRE UNIT ONTO RIGHT OR LEFT SIDE. Grasp mask and tilt it toward operator's side of unit.
- 7 REMOVE RUBBER FEET AND ANY SCREWS SECURING BASE TO UNIT. Also remove heyco from cord to allow base to come loose.
- 8 REMOVE BASE FROM UNIT.
- 9 REMOVE AND DISCARD THERMOSTAT KNOB. (Pointer type knobs have a setscrew.)
- 10 REMOVE INSULATION FROM AROUND INNER VESSEL.
- 11 SLIDE INNER VESSEL TOWARDS PICTURE SIDE OF UNIT UNTIL THERMOSTAT SHAFT CLEARS FRONT PANEL.
- 12 CUT WIRE TIE, IF THERE IS ONE, TO FURTHER ACCESS WIRING AND THERMOSTAT.
- 13 DISCONNECT BOTH LEADS TO THERMOSTAT.
- 14 REMOVE INNER VESSEL FROM UNIT.
- 15 REMOVE HARDWARE SECURING THERMOSTAT TO THERMOSTAT BRACKET AND DISCARD DEFECTIVE/OLD THERMOSTAT. You may need to save the old mounting hardware for installing new thermostat.



NEW THERMOSTAT INSTALLATION

- 1 INSTALL NEW THERMOSTAT ONTO THERMOSTAT BRACKET WITH INNER VESSEL IN AN UPSIDE-DOWN POSITION. Align thermostat with angled terminal pointing upward. Secure thermostat with mounting hardware.
- 2 THERMOSTAT CONNECTIONS
 - **For units Series 79 and earlier:**

Thermal cut-out in kit will not need to be used.

Cut off round/ring terminal from lead which is still connected to indicator light.

Then strip this end of lead by removing about 1/2" of insulation which it is wrapped in.

Connect 3" non-insulated lead (supplied in kit) with wire nut (also supplied in kit) to stripped lead which is still connected to indicator light.

Connect female terminal end of 3" non-insulated lead to thermostat terminal which points straight out from thermostat.

Cut off round/ring terminal from other lead which was previously disconnected from thermostat.

Then strip this end of lead by removing about 1/2" of insulation which it is wrapped in.

Connect other 3" insulated lead (also supplied in kit) with other wire nut (also supplied in kit) to this other lead which was previously disconnected from thermostat.

Connect female terminal end of 3" insulated lead to thermostat terminal which points at an angle out from thermostat.

Be certain that the insulation on the 3" lead is covering the terminal connection to the thermostat.
 - **For units Series 80 and later:**

3" insulated lead and one wire nut in kit will not need to be used.

Cut off 3", nearest to thermostat, of the lead that connected the heating element to the thermostat.

Then strip this end of lead by removing about 1/2" of insulation which it is wrapped in.

Connect the 3" non-insulated lead (supplied in kit) with wire nut (also supplied in kit) to stripped lead which connected the heating element to the thermostat.

Connect female terminal end of 3" non-insulated lead to thermostat terminal which points straight out from thermostat.

Remove and discard other lead which was disconnected from thermostat and replace with new thermal cut-out (supplied in kit).

Connect female terminal end of thermal cut-out lead to thermostat terminal which points at an angle out from thermostat.
- 3 INSTALL INNER VESSEL IN SHROUD. Reassemble unit, reversing disassembly procedures above. If unit previously included a small rubber grommet on thermostat shaft hole, remove and discard it.

- 4 INSTALL NEW THERMOSTAT KNOB BY ALIGNING KNOB GROOVE WITH SPLINE ON NEW THERMOSTAT SHAFT, THEN PUSH KNOB ONTO SHAFT. (Tighten knob setscrew if used.)
- 5 SET UNIT UPRIGHT ONTO ITS FEET AND PLUG UNIT INTO POWER SOURCE.
- 6 CALIBRATE UNIT PER CALIBRATION INSTRUCTIONS.

Factory-installed thermostats are sealed after calibration.

Do not attempt to calibrate a factory-installed thermostat.

TOOLS NEEDED FOR CALIBRATION PROCEDURE

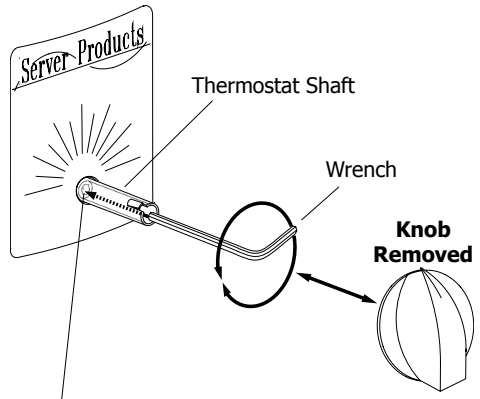
- Hexagonal Wrench or Allen Wrench (1.5 mm)
-included in thermostat kit
- Dial Thermometer (stem type)
-to measure water temperature from 90° to 170°F (32.2°-76.7°C)
- Cover (with hole in it)
-to contain heat within unit and to hold the Dial Thermometer.

CALIBRATION PROCEDURE

- 1 ALIGN KNOB ONTO THERMOSTAT SHAFT AND PRESS KNOB ONTO SHAFT.
- 2 TURN KNOB TO SETTING OF: **135°F (57.2°C)**
- 3 CAREFULLY REMOVE KNOB WITH STRAIGHT PULL TO AVOID TURNING THERMOSTAT SHAFT.
- 4 PLACE COVER (WITH HOLE IN IT) OVER UNIT AND INSERT THERMOMETER THROUGH COVER OPENING.
- 5 TURN UNIT ON AND ALLOW UNIT TO HEAT UP TO A MINIMUM OF: **145°F (62.8°C)**
 - The above "Heat Up-To" temperature is considered a minimum temperature because exceeding the temperature will not affect the final calibration.
- 6 IF THE TEMPERATURE DOES NOT REACH THE MINIMUM "HEAT UP TO" TEMPERATURE, HOLD THE THERMOSTAT SHAFT WITH ONE HAND AND ROTATE THE CALIBRATION SCREW 1/2 TURN COUNTERCLOCKWISE, USING THE SUPPLIED WRENCH. Continue to repeat the 1/2 turn of the calibration screw, until the temperature reaches the minimum.
- 7 WHEN THE TEMPERATURE REACHES THE

MINIMUM "HEAT UP TO" TEMPERATURE, TURN CALIBRATION SCREW TWO FULL TURNS CLOCKWISE.

- 8 ALLOW APPLIANCE TO COOL TO: **135°F (57.2°C)**
 - If unit does not cool to the above "Cool To" temperature, turn calibration screw two additional full turns clockwise.
- 9 WHEN THE TEMPERATURE REACHES THE "COOL TO" TEMPERATURE, TURN CALIBRATION SCREW COUNTERCLOCKWISE UNTIL A SOFT AUDIBLE CLICK IS HEARD (ON). The unit will now start and continue to heat up until another audible click is heard (OFF), this second click indicates that the heating has stopped.
- 10 REPEAT STEPS 6 THROUGH 10 UNTIL THE AUDIBLE CLICK IS CONSISTENTLY HEARD WHEN THE KNOB IS TURNING BETWEEN: **142°F (61.1°C) and 152°F (66.7°C)**
- 11 SECURE THE CALIBRATION SCREW BY PLACING SUITABLE THREAD-LOCKING MATERIAL, SUCH AS LOCTITE, IN THE SHAFT CENTER.
- 12 ALIGN KNOB ONTO THERMOSTAT SHAFT AND PRESS KNOB ONTO SHAFT. If unit includes a knob guard, install knob guard.
- 13 RE-CHECK SETTING AND RETURN UNIT TO SERVICE.
Clockwise rotation of the calibration screw lowers operating temperature.
Counterclockwise rotation of the screw raises the operating temperature. Rotation of the knob or the thermostat shaft does just the opposite.



Turn calibration screw, using wrench, COUNTERCLOCKWISE for steps 7 and 10.

Turn calibration screw, using wrench, CLOCKWISE for steps 8 and 9.

GENERAL SERVICE, REPAIR, OR RETURNS

Before sending any item to Server Products for service, repair, or return, contact Server Products customer service to request a **Return Authorization Number**. Merchandise must be sent to Server Products with this number.

Merchandise being returned for credit must be in new and unused condition and not more than 90 days old and will be subject to a 20% (percent) restocking charge. Electrical parts (thermostats, heating elements, etc.) are not returnable.

Server Products maintains a fully staffed service department with highly skilled factory trained personnel. Service is extremely prompt. Under normal circumstances, a repaired unit is shipped out the day after it is received. Labor charges are reasonable.

SERVICE

Contact your dealer or Server Products Inc. customer service department for the following:

ORDERING REPLACEMENT PARTS

Be prepared to give this information:

- Model Letters/Name/Numbers
- Part Numbers- P/N
- Series Numbers/Letters
- Part Description

This information and other important data is stamped on the lid or cylinder of pumps or on the bottom or back side of every unit.

Servicing Cord

Specific tools are required for safe and proper power supply cord removal and installation. If cord must be replaced, only a representative of the OEM (original equipment manufacturer) or a qualified technician may replace cord. Cord must meet code designation H05 RN-F requirements.

SERVER PRODUCTS LIMITED WARRANTY

All Server Products equipment is backed by a two-year limited warranty against defects in materials and workmanship. For complete warranty information go to: **www.server-products.com**



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