

Tuckerman Service Tips

Thermocouple Lead, Piezo Lead and Thermocouple Spring Replacement

To replace either the Thermocouple Lead, the Piezo Lead or the Thermocouple Inner Spring Mechanism the control housing on the righthand side of the BBQ must be removed. (see instructions on next page).

Before dismantling take note of the positioning of both the Thermocouple Copper lead (figures a & b) and Black Piezo lead (figure c), so that the replacements are put into the correct position when finished.



Figure (a) Thermocouple Placement



Figure (b) Height of Thermocouple above burner
Should be approximately 2-3mm



Figure (c) Piezo Ignitor Position 1.5-3mm above
Gas vent outlets

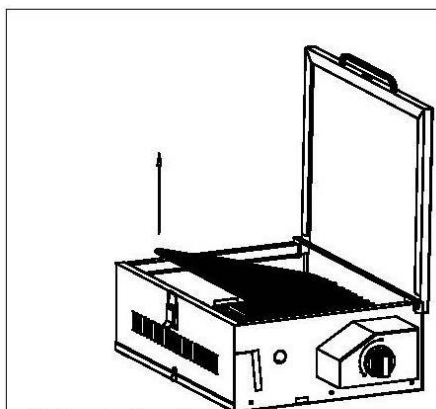


(1) Undo retaining screw to remove oven wire

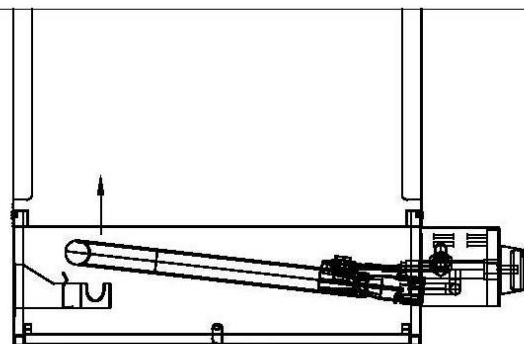
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To remove the burner, remove the semi-permanent Oven Wire by unscrewing the retaining screw and sliding it out of the rear keeper holes.

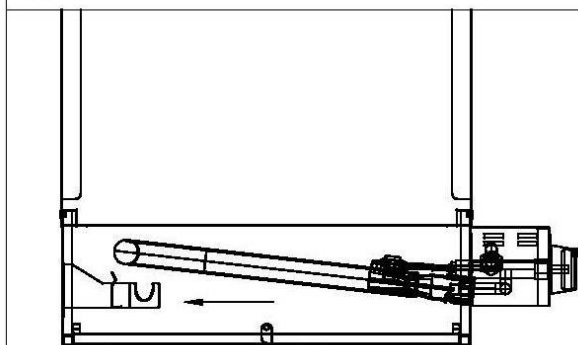
- (1) Unbolt the thermocouple (copper tube with probe end, adjacent the Piezo lead) securing nut on the face side of the thermocouple holder bracket to allow the burner to slide out (the second rear nut, at the back of the thermocouple holder bracket, should be left as is).
- (2) Lift the left end of the burner up and out of the securing clip.
- (3) Slide to the left, off the gas control valve and out of the thermocouple locator, and lift out, (see below).



(1) Remove Oven Wire



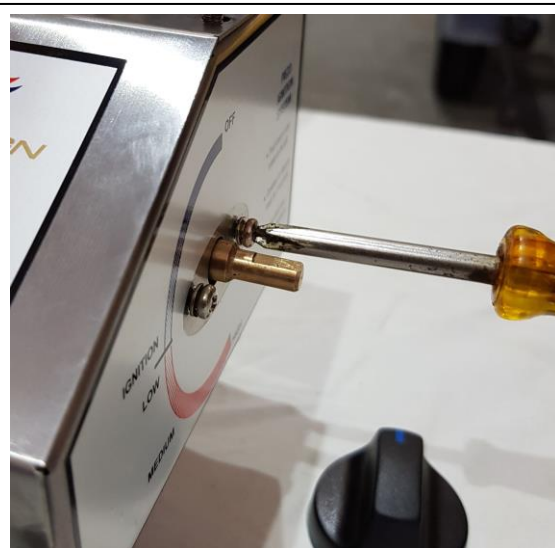
(2) Lift Left Side Of Burner



(3) Slide Burner To Left



(4) Pull Control Knob Straight off



(5) Remove Screws from under Control Knob

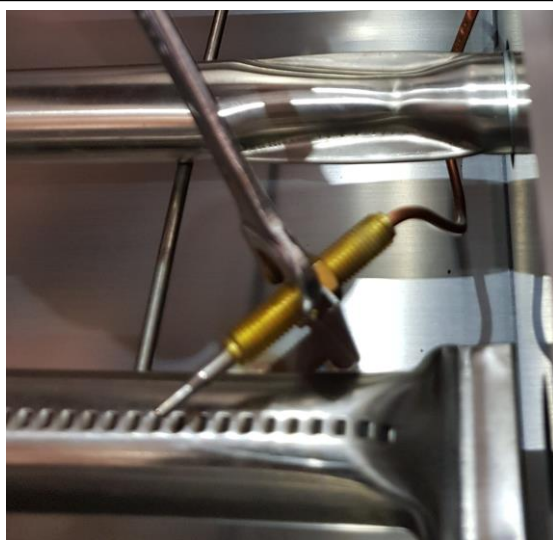
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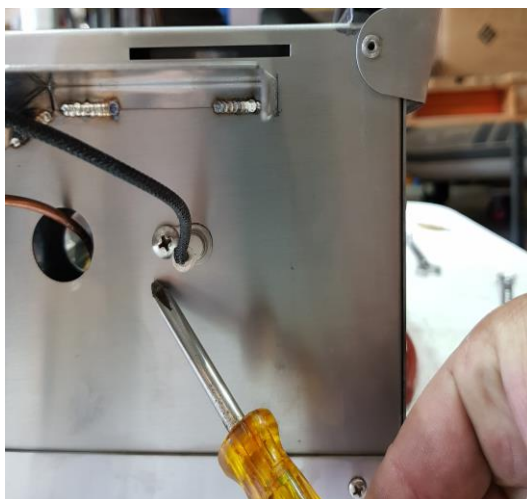
(6) Undo bolt at rear of control box



(7) Undo 4 screws and remove control box



(8) Undo thermocouple nut (closest to tip)



(9) Undo screw underneath housing to remove Piezo



(10) Remove whole valve complete with Thermocouple and Piezo



(11) Check Air Vent on Burner is in correct position

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(12) Undo nut to remove Thermocouple from Valve



(13) Picture shows Thermocouple removed from Valve



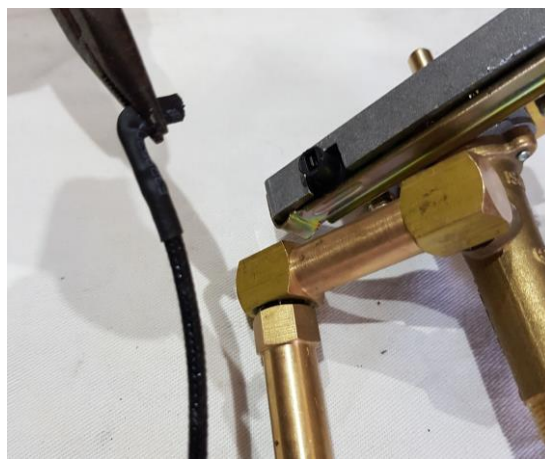
(14) Now undo Bolt that thermocouple came out of to remove the Inner Spring Mechanism



(15) Picture shows Inner Spring after removal of bolt



(16) Note Piezo position before you take it off as the replacement needs to be put in the same position



(17) Pull the Piezo off the main part of the valve

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To reassemble or to add new parts, assemble and re-install in the reverse order from (17) back to (1).

Handy Tips to remember



- When there is no spark from the Piezo Ignitor, try cleaning the tip with a very fine sand paper. If it still does not spark try cutting the very tip off the Piezo with a sharp pair of pliers. If neither of these actions work then the Piezo will need replacing.
- If your BBQ turns itself off as soon as you let go the Control Knob then that would indicate that the Control Knob is faulty or damaged in some way. To test this, pull the Control Knob straight off and try starting your BBQ with a pair of pliers. If the flame does not go out then your Control Knob needs replacing.
- Replacement parts can be ordered on our website www.sovereignbbqs.com .