

## Thermocouple Replacement

To replace the thermocouple you need access to underneath the burner tray, and to the back of the control box.

Step 1: Remove the lava rock then lift the burner tray and prop it up with something.

Step 2: At the control box end, undo the small brass split nut where the thermocouple is attached to the back of the valve. Do not undo the larger silver nut attached to the valve. Withdraw the thermocouple from the valve.



Step 3: At the pilot end, loosen (but do not remove) the two screws holding the pilot bracket onto the burner. Note, if you remove the screws fully the bracket will separate and the three elements in the pilot will fall out. It is easier if you try to keep the pilot bracket in place. Have the new thermocouple to hand, ready to swap with the old one. If the bracket separates, please ensure you replace the parts back together in the correct orientation. Please refer to the Pilot Assembly Guide for further instruction.

Step 4: You may need to loosen the screw nearest to the thermocouple a bit more, so you can separate the two halves of the pilot bracket, then slide the old thermocouple out of the bracket. Slide the new thermocouple into place, making sure the slots on the brass part line up with the bracket. Re-tighten both screws.

Step 5: Carefully straighten the copper thermocouple lead. Be sure not to kink or pull too much as this piece is the most fragile part of the unit.

Step 6: Place the new brass split nut onto the copper lead near the valve end. There is a flat section in the copper to allow the nut to be attached. Slide the nut to the end of the thermocouple.

Step 7: Push the end of the thermocouple into the valve, making sure it touches the solenoid inside the valve. Screw in the brass split nut into the silver valve nut and tighten with a small spanner.

Step 8: Lay the burner tray back down, making sure the new thermocouple copper lead is not kinked or damaged. Before replacing the lava rock, test the burner to make sure it works, then replace the lava rock.