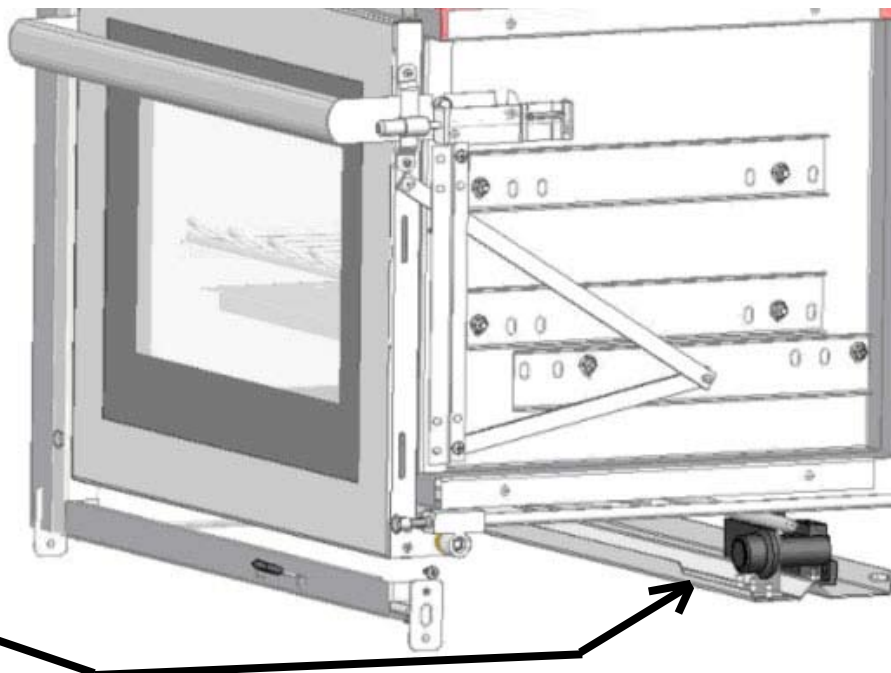


## **Force 10 Spark Ignition**

Electronic Spark Ignition – The spark ignition system is powered by a 1.5V AA battery. If the sparker stops functioning or is intermittent replacing the battery should restore function. A good quality alkaline battery may last several years.

On 2012 model or newer Force 10 Stoves the battery holder is located under the stove at the back on the right side. On older stoves it may be located under the oven on the bottom of the right side panel.

Battery holder



**Changing the battery** - To change the battery, unscrew the black cap and remove the old battery. Replace with a quality “AA” battery of at least 1.5 volts DC. Remember to respect the polarity.



## **Troubleshooting Force 10 Spark Ignition Systems**

If replacing the battery does not restore function follow the steps below:

### **No Spark at any of the burners.**

If you depress the spark ignition button and **there is no spark at any of the burners:**

**Go to STEP 1 on the next page.**

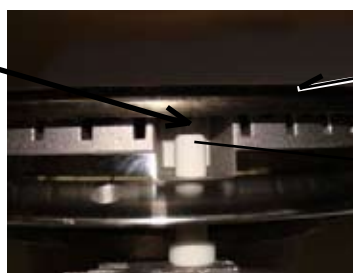
### **If at least one burner sparks but not all burners will spark:**

- Check to see that the burner caps are properly aligned on the burners - the cap should be aligned so that it is level on the flame spreader. Clean the tip of the spark electrode and the underside of the burner cap as dirt here may prevent the spark from jumping the gap between the electrode and the cap.

Next check that all of the wires in the spark ignition box are firmly attached to the terminals (see image on next page).

Spark Electrode

Look for spark here



Cap

Spark electrode

Most spark ignition problems can be traced to the battery or battery holder.

If you depress the spark ignition button and **there is no spark at any of the burners:**

**STEP 1:**

1. Check that you have a fresh battery inserted (use an alkaline battery with at least 1.5 Volts).
2. Check that the battery is in the correct way.
3. If you still don't have a spark check the voltage on the outside of the battery holder as shown.

You should have at least 1.5VDC here.



If you have no Voltage or less than 1.5VDC at the outside terminals - check that the battery holder cap is screwed on tight and not cross-threaded. Check for corrosion on the terminals inside the battery holder and clean if necessary.

If you still have no voltage at the outside terminals or less than 1.5VDC: Replace the battery holder.

**Yes I now have 1.5VDC or more here - but still no spark at the burner. Go to step 2 below.**

**Step 2** - Check the spark button switch is functioning.

On most models this will be push button switch mounted in the front of the fascia panel.

[On 2000 to 2012 year Force 10's there is a master switch behind the oven/grill knob and microswitches behind each of the top burner knobs. For these models you will have to remove the fascia panel to access the switch: to do this first pull off all of the control knobs and remove the three front top tray screws, unsew the gimbal lock pins and pull the fascia panel forward.]

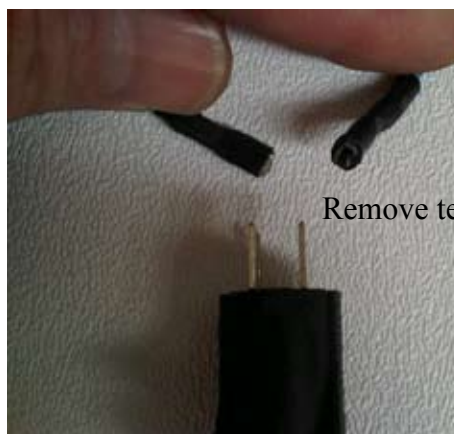
- Pull the wires off the back of the switch and touch them together to bypass the switch.
- If there is now a spark at the burners the button switch is faulty - Replace the switch.

**Step 3** -

Still no spark? Check that all connections are secure and clean on the spark ignition box (as shown next page).

- If you have checked all connections, confirmed that there is 1.5VDC at the battery holder terminals and bypassing the button switch does not produce a spark at any of the burners then the spark ignition box has failed = Replace the Spark Ignition Box.

Spark Button Switch

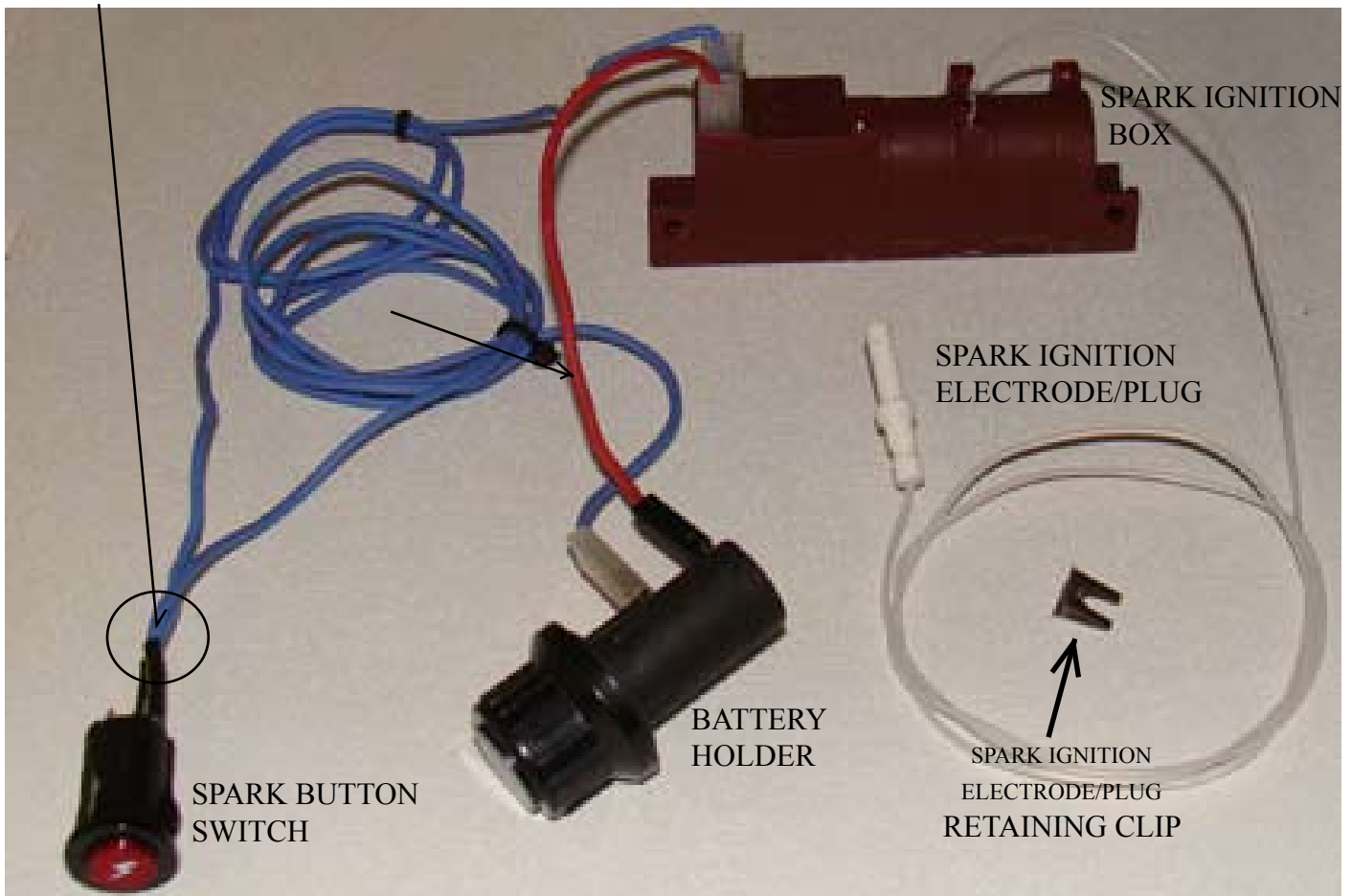


Remove terminals



Touch together to bypass the switch

## Spark Ignition Components



Pre - 2011 model year Force 10's may have different parts than those shown above but in most cases the above parts are direct replacements for the old parts with the exception of the Spark Plug/electrode: this part suits the burner type used in the stove and is not interchangeable.

### Part Numbers

Battery holder - Part No. 72647

Spark Button Switch - Part No. 72646

Spark Electrode for SABAFIII top burners (mid-2011 to date curved twist on cap) - Part No. 60023

Spark Electrode for SABAFII top burners (2000 to mid-2011 cap secured with 2 screws) - Part No. 89247

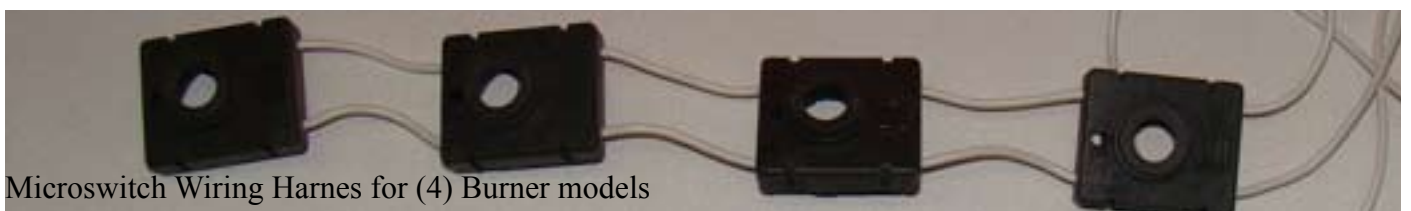
Spark Ignition Box - depending on the number of burners this box will have 2, 4, or 6 outlets

Two burner models - 4 Position Spark Box - Part No. 72645

Three and four burner models - 6 Position Spark Box - Part No. 72655

2000 - 2011 model year Force 10's have a master switch behind the oven/grill knob. Pushing in on the Oven/grill knob closes the master switch and all burners will spark. The master switch is connected to a harness of micro-switches behind the top burner knobs so pushing in on a top burner knob will also spark all burners. If a micro-switch fails the top burner may not spark when the knob is depressed but if you depress the oven grill knob at the same time as you operate the top burner it should spark.

Microswitch Wiring Harness for (2) Burner Force 10's is Part# 89228, Microswitch Wiring Harness for (3) Burner models is Part# 89229 and Microswitch Wiring Harness for (4) Burner models is Part# 89230



Microswitch Wiring Harness for (4) Burner models