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- after powering on and turning the key switch (arm switch in off position) the ignitor lines are short circuited to create a potential free environment and prevent misfire due to electrostatic charges.
- if the arm switch is moved to up position a test circuit is activated and sends a small current through the ignition line
 - the test current is limited to $\sim <50\text{mA}$ in total using a ultralow current led and a low current piezo buzzer to ensure a maximum test current of $< 50\text{mA}$
 - the yellow led right above the arm switch indicates the box is armed.
 - the red circuit test led is placed above the start button and should light up if the circuit is ready for operation and ignitor is connected properly. also the buzzer is start beeping.
- if start button is pressed the ignitor will be fired using all current available limited by the fuse.
- after successful ignition the start led and buzzer go off.

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