Start/Run Block Supplemental Procedures

Overview:

These procedures are to be used in conjunction with the H-100 Fuel Cell Stack User Manual System Set-Up procedures. All additions/substitutions should be completed during the step by step procedures. The Start/Run Block is intended to provide the power required for starting up the fuel cell system and then using the power produced by the fuel cell to sustain the controls and recharge the Block. This product will also sustain the Fuel Cell System during the brief short circuit intervals. The Start/Run Block will require up to 35W to sustain the fuel cell controls once the Block has been fully recharged. The block outputs 13V and has a startup capacity of 800mA/hr. Once the fuel cell is operating, the block will self-charge to maintain the stored power.

⚠️ **Please read all steps carefully before starting the System Set-Up.**

Items included:

- Start/Run Block

Set-Up: Locate and identify all components before starting System Set-Up procedure. Complete the procedures with the following additions and substitutions.

- Additional **Step 6**: Use additional black wire lead to connect the fuel cell to the load. Ringlet goes on the negative (-) post of the fuel cell and the spade connector goes on the negative (-) post of the inverter. See "Additional Wire" in Figure 1.

- Substitution to **Step 8**: Use the Start/Run Block in place of the power supply. Verify the Start/Run Block is switched off. Connect the DC 13V +/- leads to the binding posts labeled "DC 13V" through the side port holes. Use the additional jumper leads to connect the Start/Run Block Load to the DC input on the inverter. See "Jumper Wires" in Figure 1.
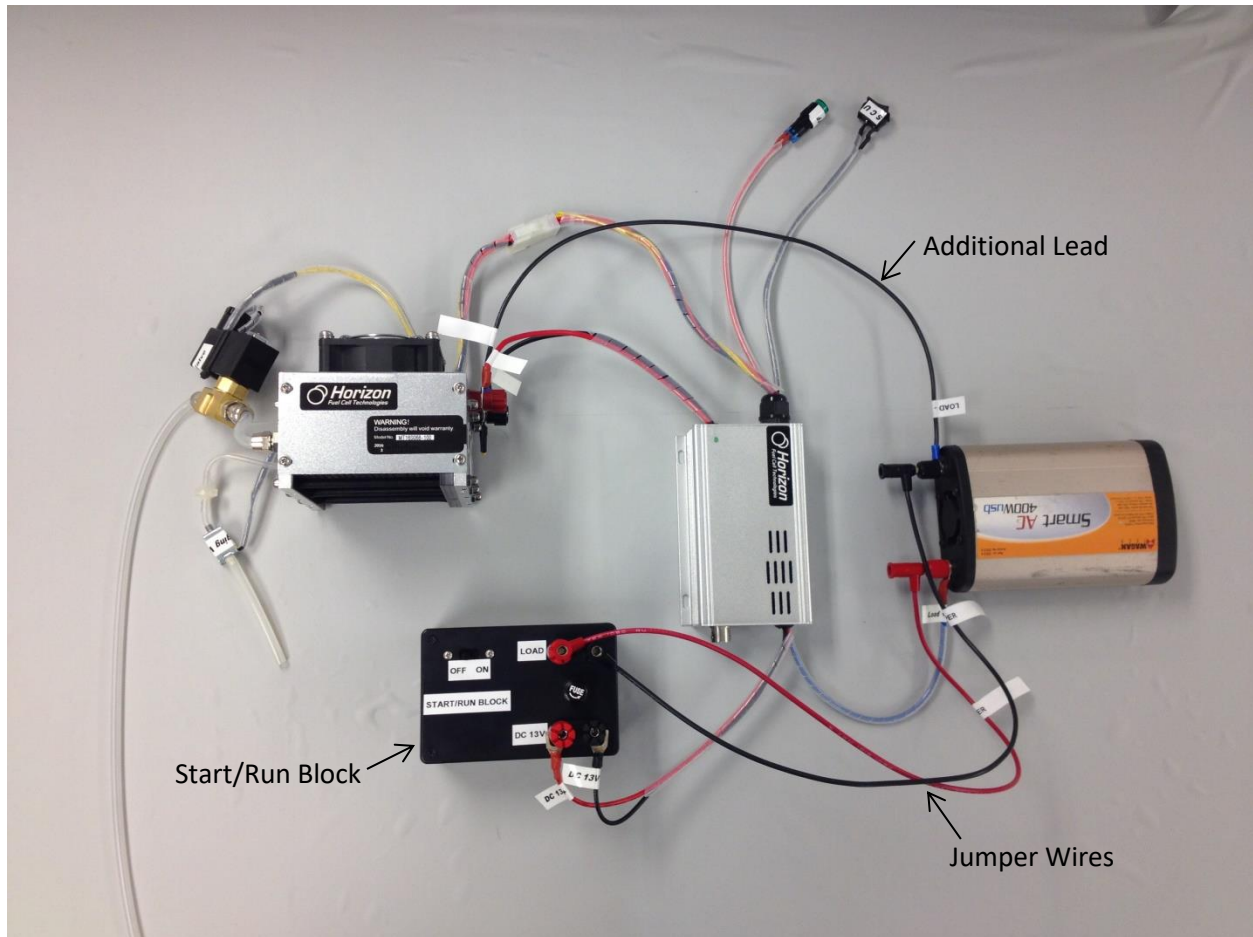
Figure 1. Layout of complete H-100 Fuel Cell System with the Start/Run Block connected.

Operation: Before the system can be activated, the power switch on the Start/Run Block must be turned on. Do not turn the Start/Run Block off until the Fuel Cell Stack has been shut down.

NOTE: This switch should remain off anytime the system is not running or power failure will occur.