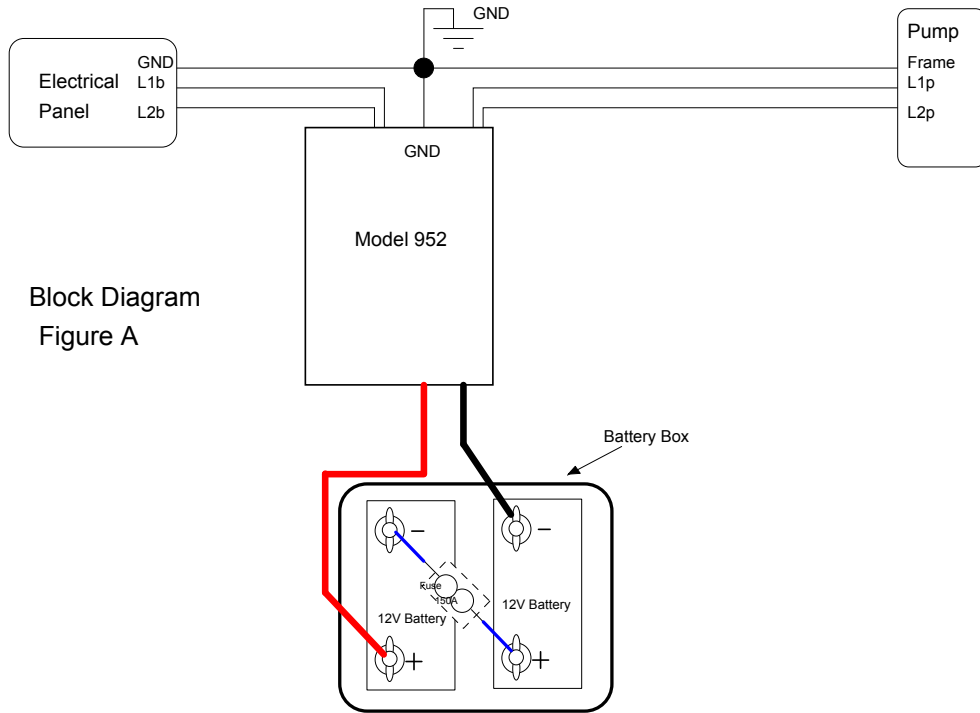


Model 952 Installation

Figure A is a block diagram showing the interconnection of the elements of the Well Pump Battery Back Up.



Before any hookup, make sure that the inverter power ON/OFF switch on the DC input end plate is in the "OFF" position.



AC Mains Connection

- a) Select the 240 VAC primary AC circuit designated to power the system. Identify the L1, L2 Lines (breakers) of the host electrical panel and make sure the two breakers to power the pump circuit are switched OFF.
- b) While facing the 952 switch panel, remove the top cover of the 952. Notice the 240 VAC connection blocks in the upper right hand corner. See fig. 2.

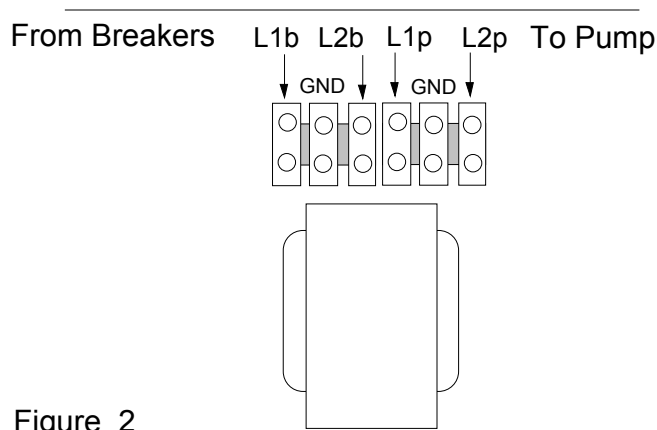


Figure 2

- c) Make corresponding connections from Breakers and system ground to L1b, L2b, GND.
- d) Make corresponding connections from Pump to L1p L2p and GND.

DC Mains Connection

- a) Configure batteries in battery box with fuse strap per the below.

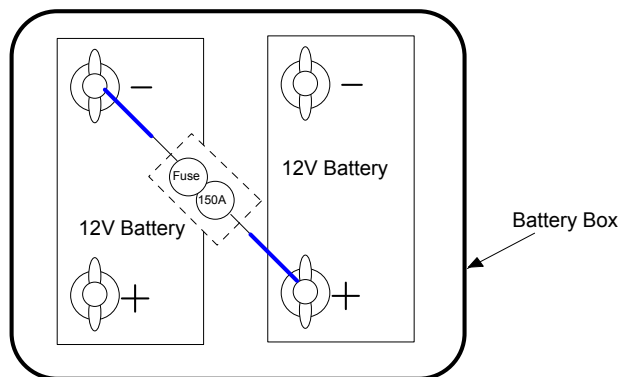
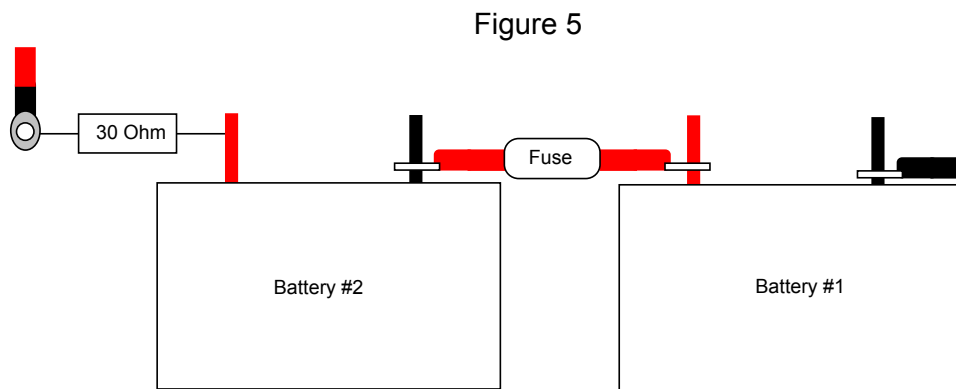
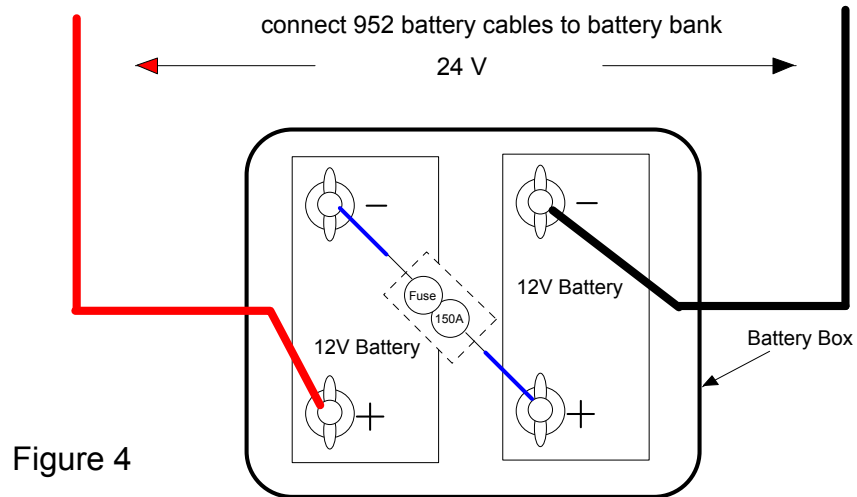


Figure 3

- b) Connect the negative (black) cable to the negative terminal of the battery bank as shown in Figure 4.
- c) Connect the positive (red) cable to the positive terminal of the battery bank as shown in Figure 4. Caution: The connection of the positive cable will result in a significant spark at the terminal. In order to avoid the sparking, first touch the red cable terminal to the battery through a 30 ohm resistor in Figure 5. Then without delay connect the cable directly to the positive terminal. No spark will be present.



Operation Verification

- a) Check all connections before proceeding to make sure they comply with steps described in sections dealing with **AC Mains Connection** and **DC Mains Connection**.
- b) Trip ON the two breakers in the panel that feed L1b and L2b which supply 240 VAC nominal. Verify by meter, the voltage between the pump connections L1p and L2p. It should be almost identical to the voltage between L1b and L2b emanating from the breakers. Notice also that one of the battery state led indicators is illuminated.
- c) AC mode operation is normal. **Turn off breakers.**

- d) Turn ON only the Inverter Power Switch. Measure the AC voltage again between the pump connections L1p and L2p. Approximately 210-240 VAC should be present on the terminals. **Turn OFF the Inverter Power Switch.**
- e) The system is ready to go into service. Turn on the AC breakers first and then the Inverter Power Switch.