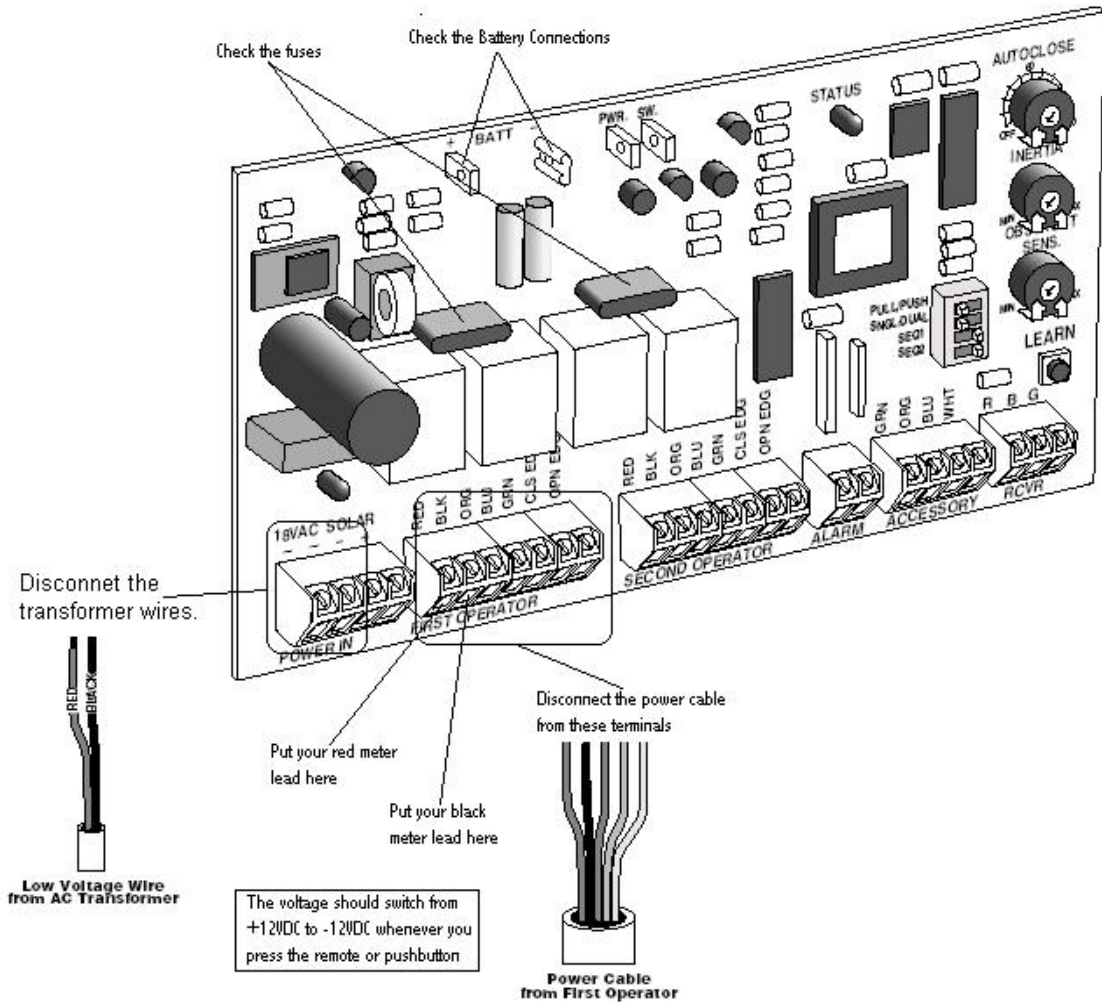


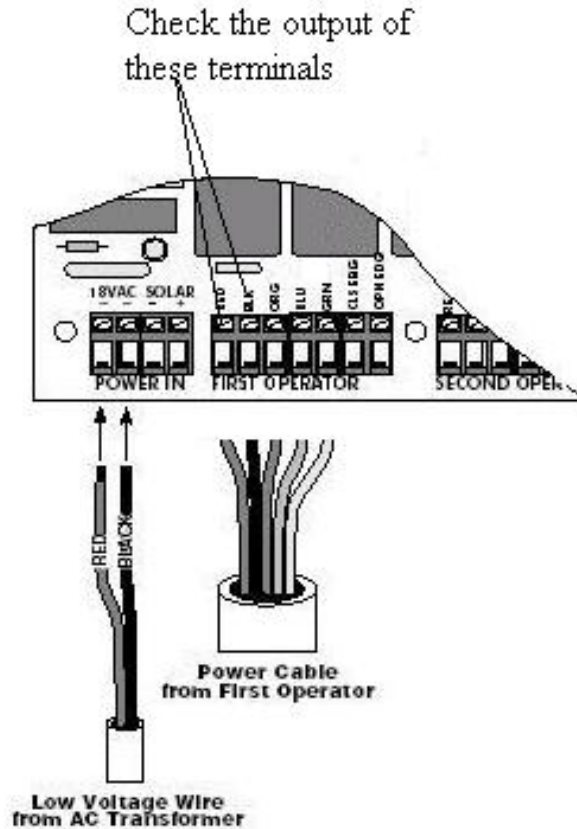
Testing the AQ250 Circuit Board

Whenever you use the remote or push button and you hear a “click” inside the control box but the operator arm does not do anything, you have a power problem with your gate opener.

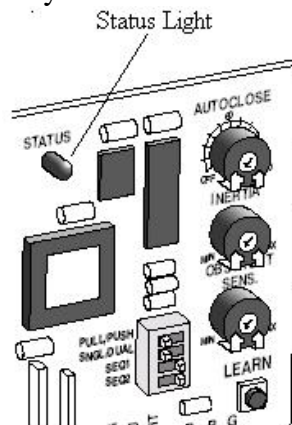
If you are sure that the fuse is good, you have a good battery, and the connections from the battery to the circuit board are good, we need to disconnect the transformer wires and power cable from the circuit board that comes from the operator arm and check the output of the circuit board.



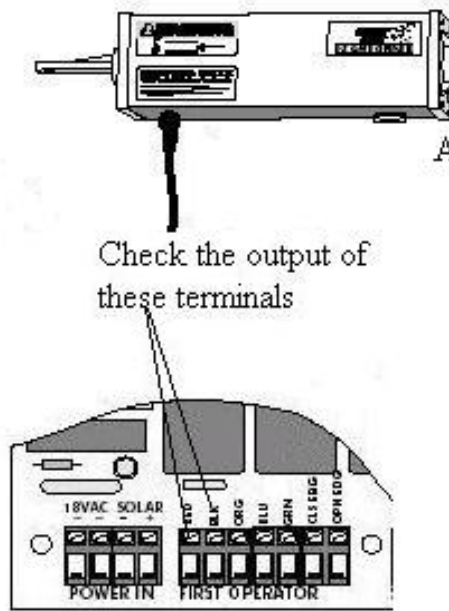
- 1) Disconnect the power cable that comes from the operator arm. It is the cable with five wires and it connects to the terminal block on the circuit board marked, "First Operator." Disconnect all five wires from the circuit board.



- 2) Once the wires have been disconnected from the circuit board, put your black meter lead on the black terminal of the First Operator on the circuit board. Put your red meter lead on the red terminal of the First Operator on the circuit board. These two terminals send power to the motor.
- 3) With the unit turned on and the red status light on steady, press your remote or your push button as if you are going to activate the gate. Measure the voltage across the red and black terminals of the First Operator with your volt meter.



4) The first time you press the remote, the voltage should be +12vdc.




Check the output of these terminals

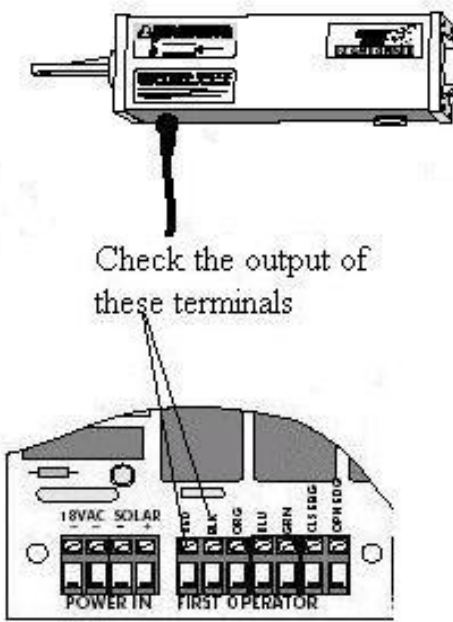
18VAC SOLAR
POWER IN
FIRST OPERATOR
RED
BLK
ORG
BLU
GRN
CLS EDC
OPN EDC

Arm Extending

The board sends +12vdc to extend the arm.



The next time you press the remote, it should go to 0vdc.




Check the output of these terminals

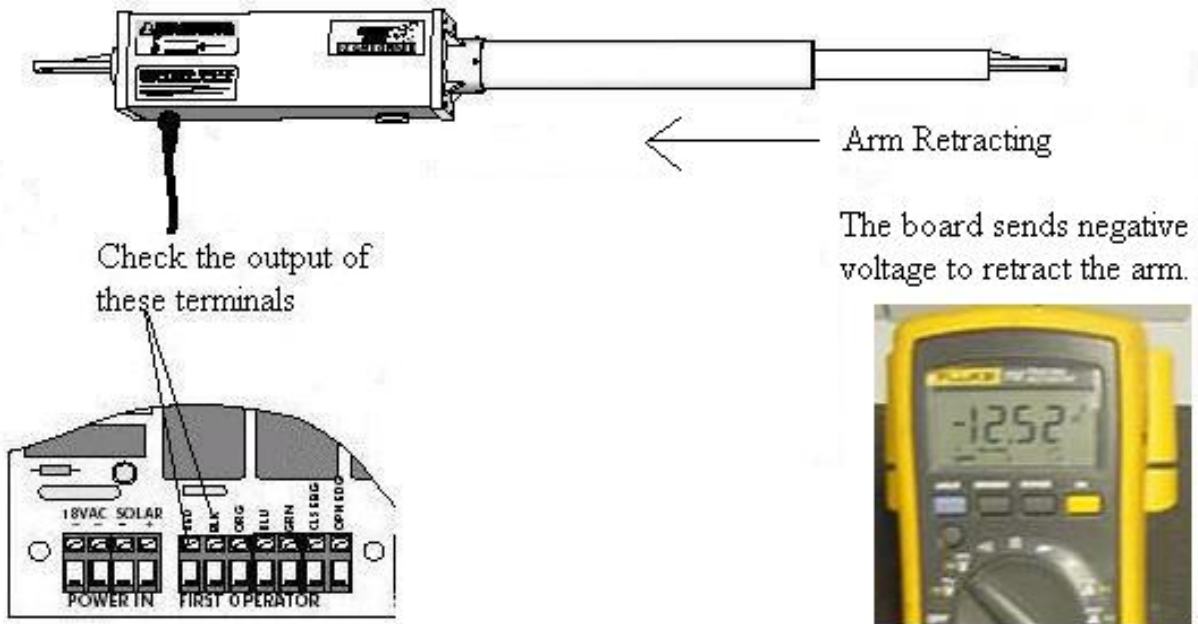
18VAC SOLAR
POWER IN
FIRST OPERATOR
RED
BLK
ORG
BLU
GRN
CLS EDC
OPN EDC

Arm Stopped

The voltage should be 0 vdc when the arm is stopped



The third time you press the remote, it should go to -12vdc. The circuit board sends positive voltage to the motor to make the arm extend and negative voltage to make it retract.



- 5) If you can't get any voltage output from the board with a fully charged battery, good connections from the battery to the board, and the power cable from the arm disconnected, there is a problem with your circuit board.