

HAMILTON

TECHNICAL BULLETIN

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Product: HA47	Date Revised:

Subject:

HA47 teller carrier arrival sensor not functioning properly.

All,

The HA47 unit utilizes an electronic sensor located above the teller unit to signal the controls that the carrier has arrived so it can turn off the blowers. The sensor manufacturer has changed some components within the sensor itself that have caused it to no longer function properly all the time with our system. The changes were minor to the sensor and still within the manufactures specifications, but did have some adverse affects to our system.

Issue:

The sensor will power on and seam to function normally. The issue occurs during the signaling process as the sensor sends a pulsing signal instead of a steady signal. The result is that the signal will sometimes be missed and the turbines will not turn off automatically. This does not damage the sensor or the system. The turbines of the HA47 are set to a factory maximum run time of three minutes. If the teller door is opened after carrier arrives, the turbines will also turn off. Closing the teller door will send the carrier back to the customer. The system can be operated without damage in this manor until the power kit can be installed.

Solution:

Hamilton has engineered a 24VDC power filter and regulator kit (E0949) to power the controls and sensor. This kit cleans the power and regulates it so that the sensor can operate properly. The kit is installed in the PLC control unit of the HA47 system that is typically located inside close to the teller unit. The kit consists of a capacitor and voltage regulator along with a jumper wire and instructions. We will send this kit with any new sensor orders shipped March 3, 2008 and after. The kit is also available at no charge from Hamilton by ordering part number E0949. Please contact technical support for more information or any questions or concerns.

HA47 units shipped after 2/29/08 will have this kit factory installed.

E0949 = HA47 Power Filter / Regulator Kit

3/5/2008



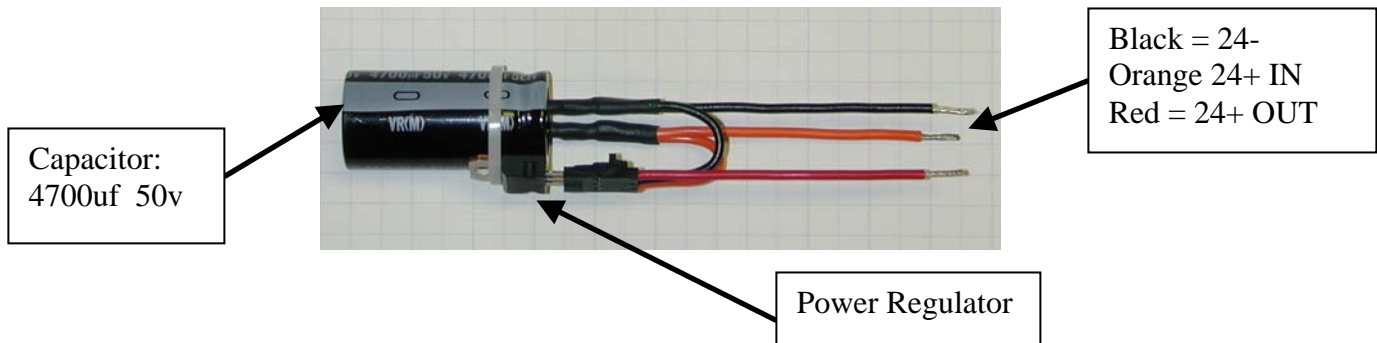
Model HA-47

24VDC Power Filter / Regulator Kit

E0949

Installation Instructions

E0949 = 24VDC Power filter / regulator kit cleans and regulates power supplied to DC components in the HA47, namely the PLC and teller carrier arrival sensor. This kit corrects possible issues with poor or varying performance from teller carrier arrival sensor. This kit can be added to all HA47 units with PLC control unit.



Step#1 Disconnect power from HA47 control unit.

Step#2 Remove metal cover from control unit.

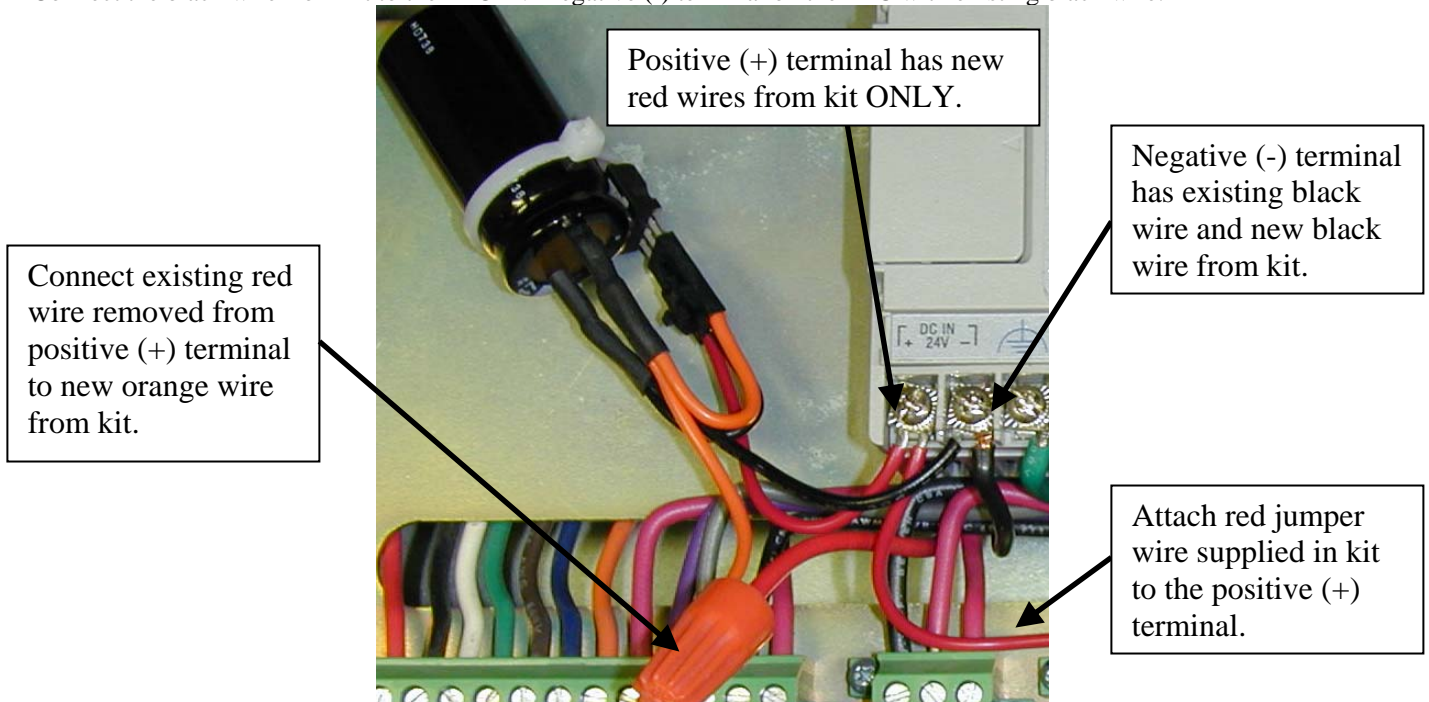
Step#3 Remove and discard the existing resistor from the PLC power terminals shown below. Note the factory connections to the positive (+) and negative (-) DC IN terminals. Red wire on positive (+) terminal will be removed and connected to the Orange wire. The black wire on the negative (-) terminal will stay connected to this terminal along with new black wire.

Step #3
Remove resistor.



Model HA-47 24VDC Power Filter E0949 Installation Instructions

Step#4 Connect red wire removed from the “DC IN” positive (+) terminal on the PLC to the orange wire from kit Connect the red wire from the kit to the “DC IN” positive (+) terminal on the PLC along with new red jumper wire also supplied in kit. Connect the black wire from kit to the “DC IN” negative (-) terminal on the PLC with existing black wire.



Step#5 Remove red wire from TS#4 terminal #1 and cap. (Not used) Connect new red wire jumper connected to the “DC IN” positive (+) terminal on the PLC in step #4 to TS#4 terminal #1.

