QUIPP STACKER CONTROL UPGRADE KITS
PLC BATTERY MONITORING & REPLACEMENT

SYMPTOMS.

The PLC used in QUIPP Stacker Control Upgrade Kits is supplied with a backup battery that retains settings and parameters when the stacker is powered OFF.

If the battery is completely discharged, each time the stacker is powered up the following will occur:-

1. The *"SERIAL NUMBER PLC"* value on the *SETTINGS -> CONFIGURATION* page must be entered.
2. ALL settings on the Adjustment Screen must be re-entered.
3. The accumulated lifetime data displayed on the Status screen is no longer correct. This includes *"Power On [Hours]", "Running [Hours]", "Rotate [Cyles]", "Eject [Cycles]", "RAW and FILTERED LIFETIME Counts".*

While none of these conditions will prevent the stacker from operating they are an unnecessary aggravation that can be readily avoided by replacing the battery as part of general maintenance procedures.

SOFTWARE VERSION NOTES

Prior to software version SCUK_160201 there is no warning that the battery is nearly discharged.

From software version SCUK_160201 and the stacker is powered ON, a nearly discharged battery causes the ERR/ALM LED on the front of the PLC CPU to flash AND a message *"WARNING PLC Battery LOW – REPLACE"* will appear on the touchscreen every 30 minutes.

SOLUTION.

Prior to software version SCUK_160201 per the manufacturers recommendations, be sure to install a replacement battery within two years of the production date shown on the battery's label. Alternately upgrade software to at least version SCUK_160201 so the battery warning message will be displayed.

From software version SCUK_160201 keep replacement batteries in stock and replace them within 5 days after the battery warning message first appears on the touchscreen.

Replacement battery is OMRON P/N CJ1W-BAT01.
There are many suppliers with widely differing prices for this battery that can be readily found on the Internet.

The production date on the side of the battery is configured as follows:-

Production Date

OMRON
CJ1W-BAT01
08-06   Manufactured in June 2008.

REPLACEMENT PROCEDURE

1. The PLC must be powered ON for at least 5 minutes prior to replacing the battery.
2. Unpack the replacement battery and hinge up the cover on the PLC to expose the battery compartment.
3. Turn OFF power to the PLC. [*Note the new battery must be replaced within 5 minutes*].
4. Slide out the old battery and remove from the connector.
5. Plug the new battery into the connector and slide it back into the PLC.
6. Close the hinged cover and turn power ON.
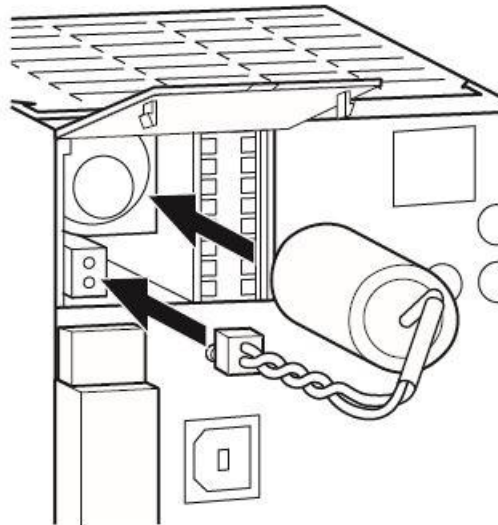
STACKER STARTUP AFTER BATTERY REPLACEMENT

If the battery has been replaced prior to it being completely discharged no further action is required and the stacker is ready for operation. All previous settings and lifetime data are retained.
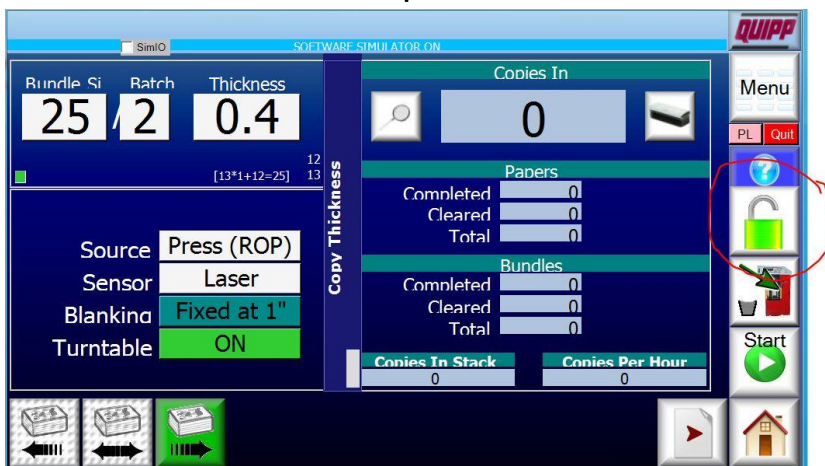
However, if the battery was completely discharged the stacker will not function until the following actions are completed.

RENEW PLC SERIAL NUMBER

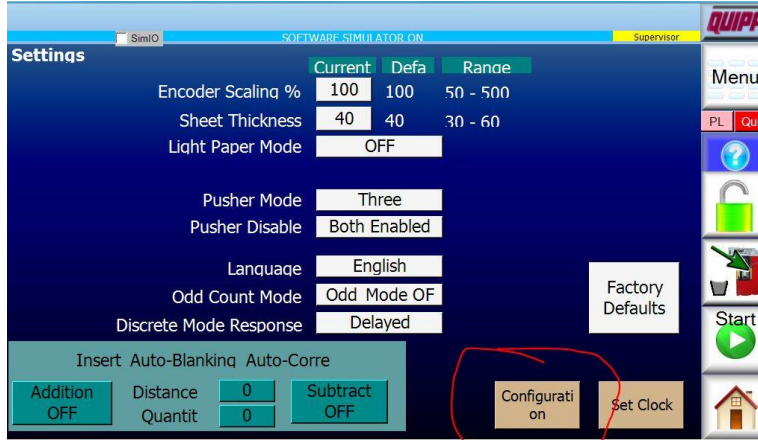1. The stacker Serial Number is located on top of the CPU of the PLC.

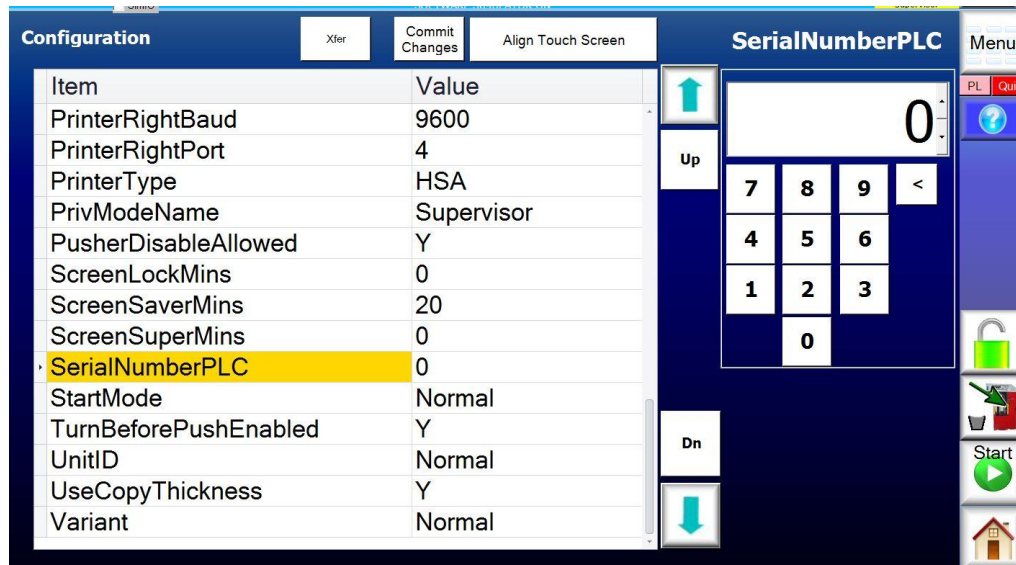2. Enter the "FOREMAN" password on the screen padlock icon.

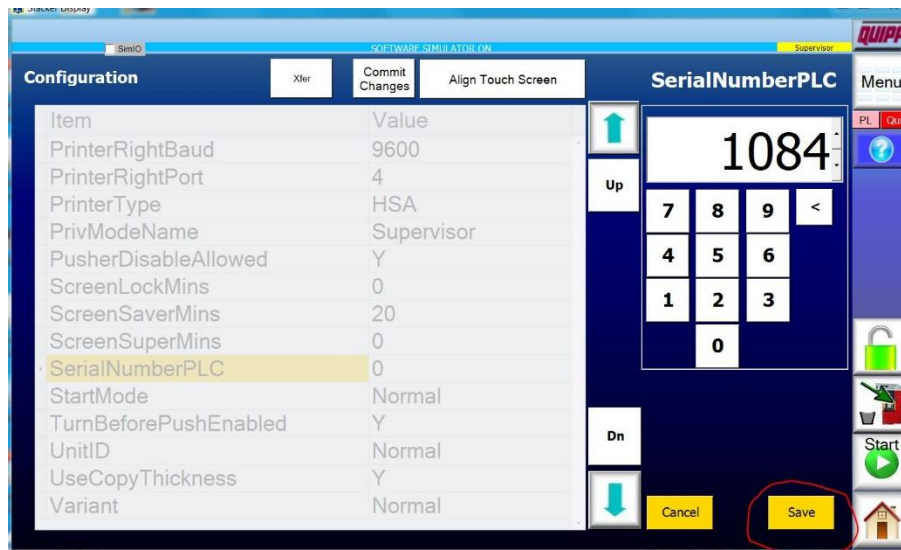3. Access the stacker configuration page.
   MENU -> SETTINGS -> CONFIGURATION

4. Scroll down the configuration settings to "SerialNumberPLC" and touch the SerialNumber text to display the popup keypad.

5. Using the keypad enter the Serial Number and SAVE.

6. Cycle power to the stacker [OFF for 30 secs. then ON].

7. Prior to starting the stacker place it in simulation mode at 40 KPH. Now start the stacker and run in simulation mode for a minimum of 2 minutes and observe correct operation. Stacker is now ready for production.