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

RimlO	SOEDA	ADE CIMU	ATOD ON			Supervisor	<i><u><u><u></u></u></u></i> <u><u></u></u> <u></u>
Settings		Current	Defa	Rande		Jupervisor	Menu
Encode	er Scaling %	100	100	50 - 500			
She	et Thickness	40	40	30 - 60			PL Quit
Light	Paper Mode	0	FF				
F Pu	Pusher Mode sher Disable	Th Both E	iree Enabled				C
	Language	Eng	glish			Factory	X
Odd Discrete Mo	Count Mode	Odd M	lode OF aved			Defaults	Start
Insert Auto-Blan	king Auto-Corr	re				\	
OFF Distance Quantit		OFF		Confi	gurati n	Set Clock	
					/		

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

Configuration	Xfer	Commit Changes	Align Touch Screen		Seri	alNu	mbe	rPLC	Menu
Item		Value	5						PL Quit
PrinterRightBaud		9600						$\mathbf{O}^{\mathbf{I}}$	
PrinterRightPort		4		Up			_		
PrinterType		HSA			7	8	9	<	
PrivModeName		Super	visor		_	_			
PusherDisableAllowed		Y			4	5	6		
ScreenLockMins		0			4	2	2		
ScreenSaverMins		20			-	<u> </u>	3		
ScreenSuperMins		0				0			
SerialNumberPLC		0							
StartMode		Norma	al						Y
TurnBeforePushEnable	d	Y		Dn					
UnitID		Norma	al						Start
UseCopyThickness		Y							
Variant		Norma	al						

QUIPP STACKER CONTROL UPGRADE KITS PLC BATTERY MONITORING & REPLACEMENT 5. Using the keypad enter the Serial Number and SAVE.

SimiO		SOFTWARE S	SIMULATOR ON					Supervisor	QUIPP
Configuration	Xfer	Commit Changes	Align Touch Screen		Seri	ialNu	mbe	rPLC	Menu
Item PrinterRightBaud PrinterRightPort		Value 9600 4)	1		1	.08	34	PL Quit
PrinterType		HSA		Op	7	8	9	<	
PrivModeName PusherDisableAllowed		Super Y	rvisor		4	5	6		
ScreenLockMins		0			1	2	3		
ScreenSaverMins		20				0			C
SerialNumberPLC		0				Ŭ			
StartMode		Norm	al						Y
TurnBeforePushEnable	d	Y		Da					
UnitID		Norm	al						Start
UseCopyThickness		Y							
Variant		Norm	al		Canc	el		Save	

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

SimIO	SOFTWARF	SIMULATC	R ON
ljustment	Current	Defa	Rande
Minimum Infeed Speed FP	100	100	100 - 400
Infeed Speed Gain %	0	0	0 - 20
Laser Sensitivity %	70	70	60 - 85
Laser Intercept Distance	50	50	50 - 60
Batch Dropping Speed %	60	60	60 - 140
Turn Delay mSec	100	100	100 - 999
Push Delay mSec	100	100	100 - 999
Pusher Speed FPM	100	100	100 - 180
Simulation Mode	ON	OFF	ON, OFF
Simulation Rate KPH	40	0	0 - 99