

## More Offerings

### SYBESTER - MEASURE BATTERY TRAYS



The quick and simple way of testing Symmetra batteries.

Simply plug in the Sybester into your Symmetra battery tray and instantly get voltage and battery data. Then activate the load tester and record the performance of the tray under load.

The new versions test SYBTU1 & SYBT5 batteries.

### SYNTINEL LX - ANALYZE YOUR LX SYSTEM



The new innovative tool to maintain, troubleshoot, and analyze your Symmetra LX UPS.

The Syntinel is the only tool that can datalog each SYBT5 for performance. If you have any problems with the Symmetra the Syntinel's Datalogging, Fault Codes, Diagnostic Data, and Visual Interfaces can help us restore your UPS faster.

### SYBT5+ NEW GENUINE TRAYS & SYPM4KP+ MODULES

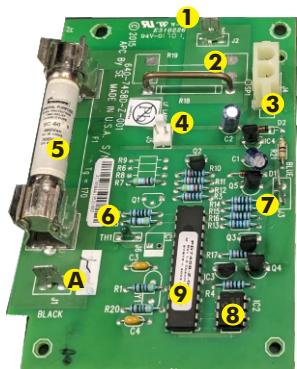


Ask your vendor about buying factory fresh SYBT5plus battery trays with more power and runtime than APC SYBT5s.

Coming soon, new SYPM4KP+ power modules compatible with all LX units.

Learn More at [SYMMTOOLS.com](http://SYMMTOOLS.com)

## Compare Boards



Old 640-7458D-Z-001 Board

- 1 - Connector for output
- 2 - Current Shunt
- 3 - Current Monitor Molex connector
- 4 - 2pin Battery disconnect cable
- 5 - Fuses 60a / 300vdc
- 6 - Thermistor to monitor Temperature
- 7 - Connector to logic power
- 8/9 - Chips for Data & Processing
- A - Connector to Battery (-)
- B - New programming Port



New SY5PLUS Board



## Installation Guide & Help Booklet

Ver X1.01

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**SYBT5**  
**SY5PLUS**

## Battery Communication Board w/Syntelligence

CAUTION: Inside the SYBT5 contains dangerous voltage. Work on battery trays should be done by skilled technicians that understand electricity and have taken precautions to prevent shock.

# Installation

## OPEN UP SYBT5 CASE

Remove screws from case and remove blocks of batteries and their leads. Keep the leads and screws.

## LOCATE COMM BOARD IN REAR

The comm board is in the rear of the case. It has 5 cables attached to it. 1 Molex white plug, 3 spade connectors, and 1 pin type cord. **See Photo 1**

## REMOVE CABLES FROM OLD BOARD

Remove all cables by squeezing or gently pulling on the connector. Note the cable colors connecting to each terminal. Some trays use a white for the bottom connector.

## UNSCREW BOARD FROM FRAME

Remove the screws holding the board to the chassis. Keep the screw to use to connect the new board. Remove the new **SY5PLUS** comm board from the bag and inspect it.

## INSTALL NEW COMM BOARD ONTO FRAME

The **SY5PLUS** card is the same size and shape as the existing comm card. Attach it with the same alignment as the old card. Secure the card to the frame with the screws.

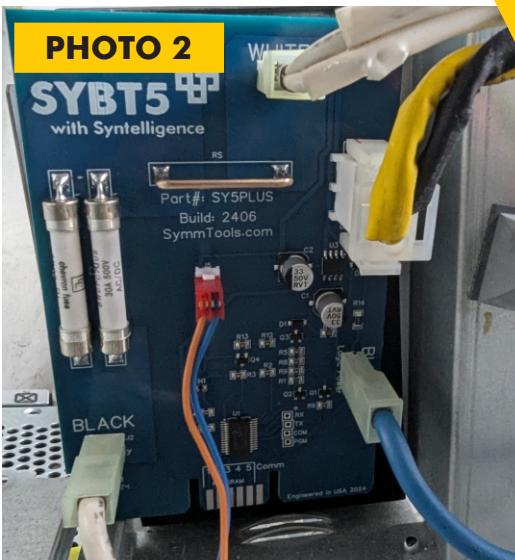
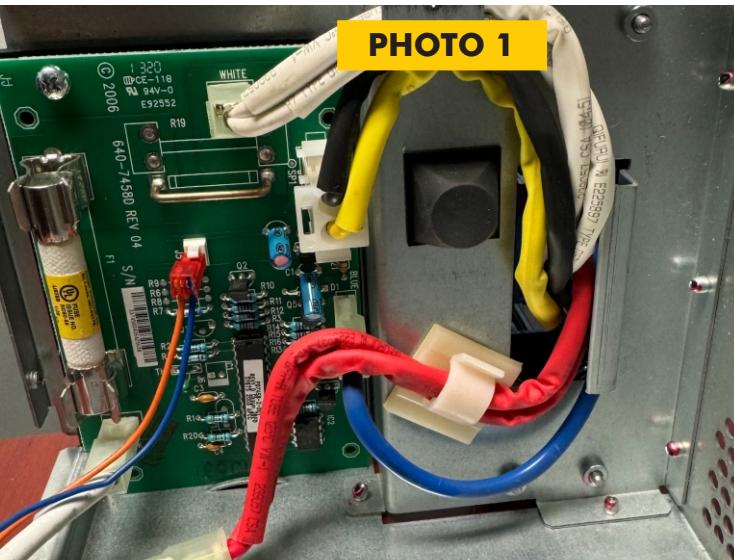
## INSTALL 5 CABLES INTO NEW CARD

Carefully reconnect the Molex connector, 2pin and spade terminals to the board. The **SY5PLUS** was designed to match existing boards for simplicity. **See Photo 2**

## INSTALL FRESH NEW BATTERIES AND CLOSE CASE

All **SY5PLUS** cards comm calibrated for NEW Batteries. Only install fresh new batteries when using a new card. Using old batteries, even briefly, could cause the new card to flag the entire tray bad.

## FOLLOW NORMAL INSTRUCTIONS TO INSTALL SYBT5 INTO UPS



# Troubleshooting

## THE BATTERY IS NOT BEING RECOGNIZED

The first step is to confirm that you have good voltage inside the tray. Use a multi meter with a DC setting to measure the connectors in the back as shown below. A healthy battery should have about 127volts. **See Photo 3**

Before calling your **SY5PLUS** vendor, be sure to notice a) whether the UPS confirmed the new battery being installed 2) whether the battery passed a Self test, and 3) What is the model and date code of the batteries in the the new SYBT5+ card.

## HOW TO CHECK THE HEALTH OF A SYBT5+

Use the Network Management card to access key details about your SYBT5s with **SY5PLUS** installed. Open up the STATUS : FRAMES : BATTERIES and view your SYBT5 details. Notice the serial # and manufacturer date are displayed for all genuine APC SYBT5 trays and those with the **SY5PLUS** installed. Below, also shows the 3 key health values.

