
ILC Quanta RSX Series Retrofit Installation Guide

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including those listed below:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

CAUTION – The Existing Quanta panel is fed from multiple circuit breakers or power sources. To reduce the risk of electrical shock, disconnect all power sources by turning off the A.C. branch circuit breaker before working on the ILC Quanta Series panel upgrade

SAVE THESE INSTRUCTIONS

Pre-Installation Inspection

- a. Check the B.O.M. list and verify that all material has arrive in good condition and that no items are missing.
- b. Check the existing Quanta Series panels wiring to verify that no Line or Load wires are damaged. If damaged arrange for replacement wiring before installing the ILC panel upgrade hardware.
- c. If networking multiple panels consult ILC for additional hardware, you will need to change any existing network wire to a CAT-5e data cable.

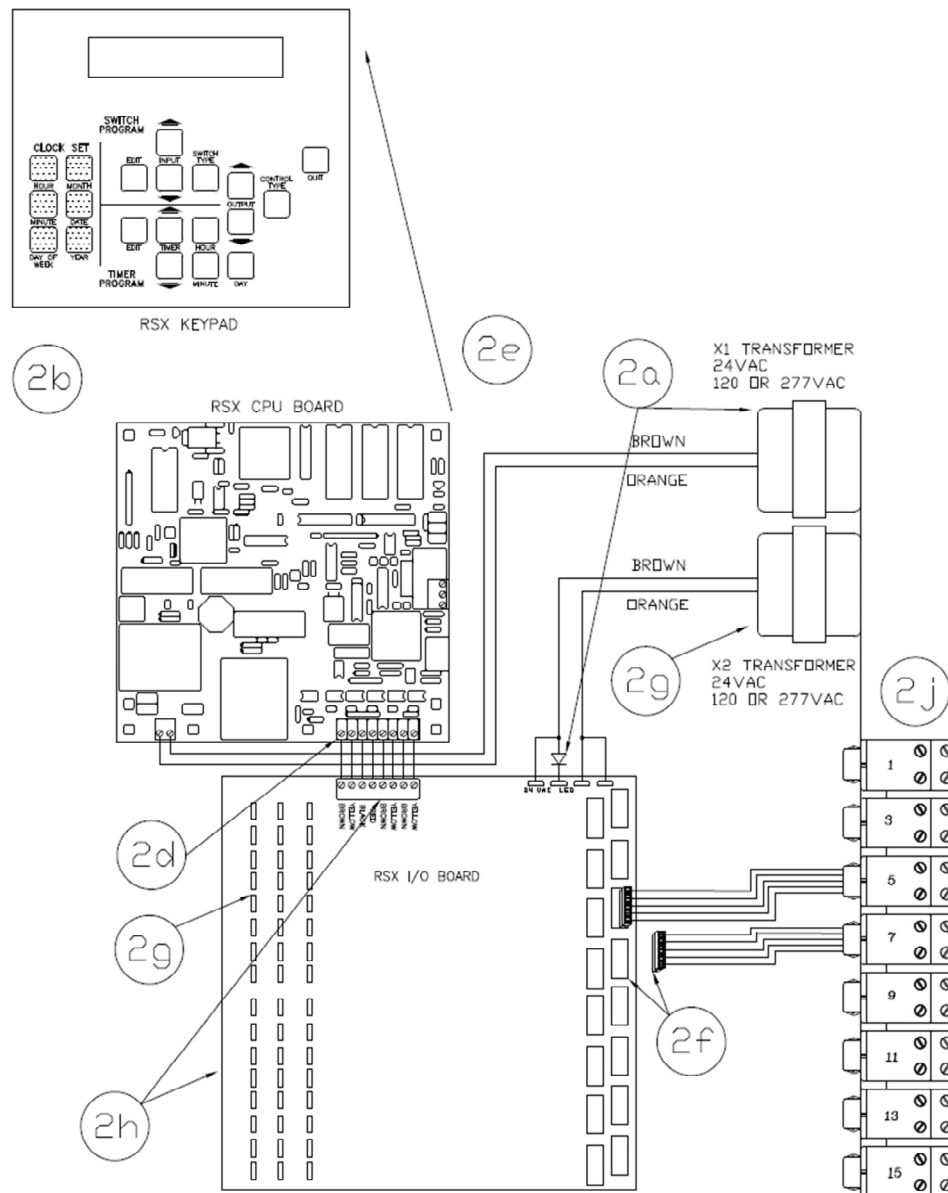
INSTALLATION INSTRUCTIONS

Note: ILC RSX Relay Panels can have two different distinct Relay and Input/Output boards depending on which relays are used. (TR/2R9C) Please review methods 1 and 2 of the LightLEEDer Controller Installation below to ensure you have the correct materials.

1. Power

Turn OFF all breaker panel circuits that are associated with the existing Quanta Series panel, test the panel wires with voltage meter to ensure all circuits are off.

2. Remove existing hardware



*Shown with 2R9C Relays

- Remove X1 & X2 transformers and all primary/secondary connections, set aside diode and spade connector for future use
- Remove RSX Keypad (or dead front) and ribbon cable to expose RSX CPU
- Remove existing twisted pair data cable if panels are networked
- Remove 8 wire data connector from CPU ONLY

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- e. Remove RSX CPU, standoffs, and screws

If Upgrading to LM I/O Boards:

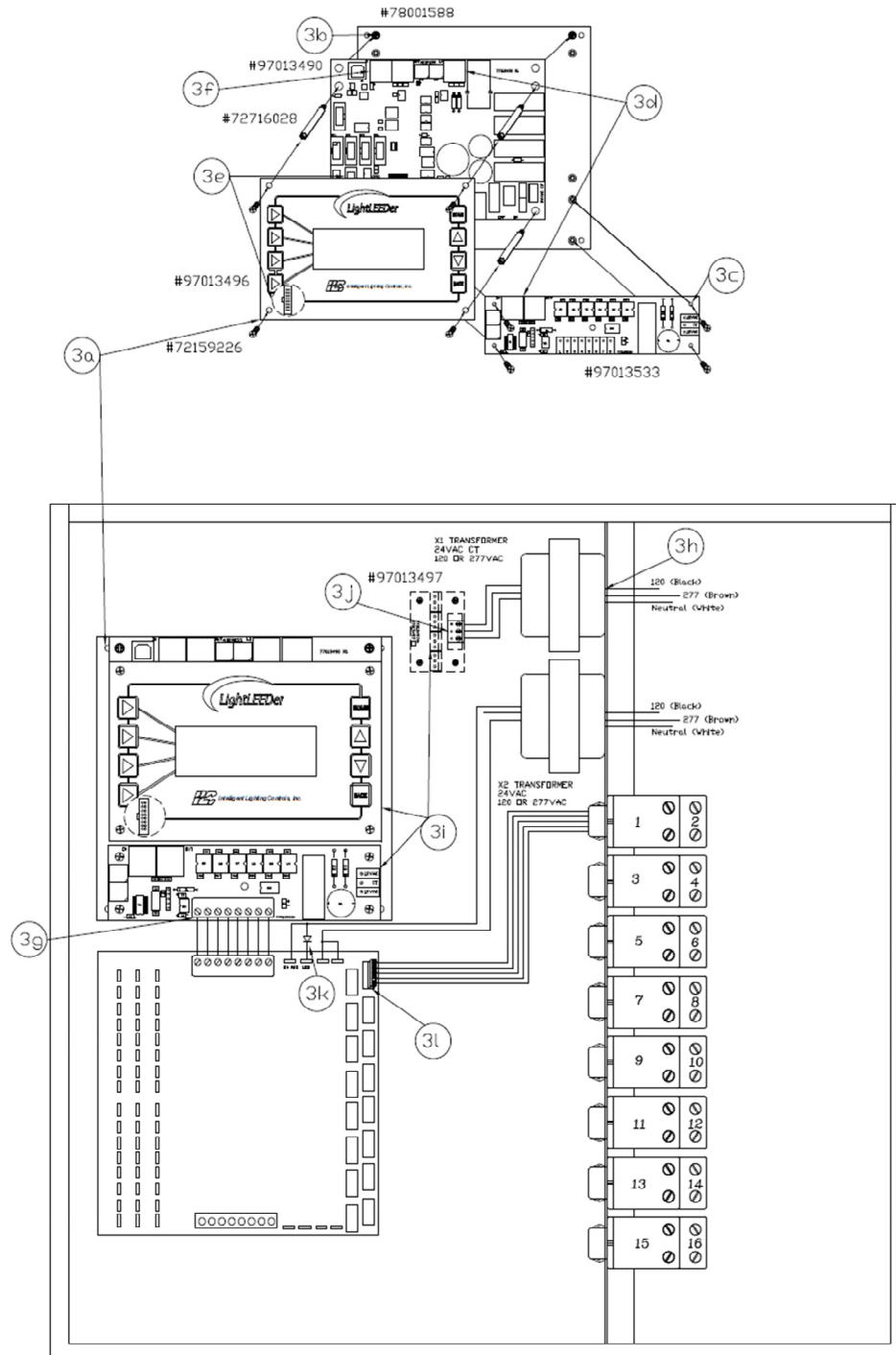
- f. Label Yellow Relay cables and remove from the RSX I/O Board
- g. Label all existing Input Switches and Connections, and Remove from RSX I/O Board
- h. Remove all existing RSX I/O Boards and 8 wire data connectors

If Upgrading from TR to 2R9C Relays:

- i. Discard and remove neutral wire, cut load and line wires at the TR relay, and strip for future use on 2R9C terminal
- j. Remove all existing TR Relays from enclosure

3. Install New LightLEEDer Controller

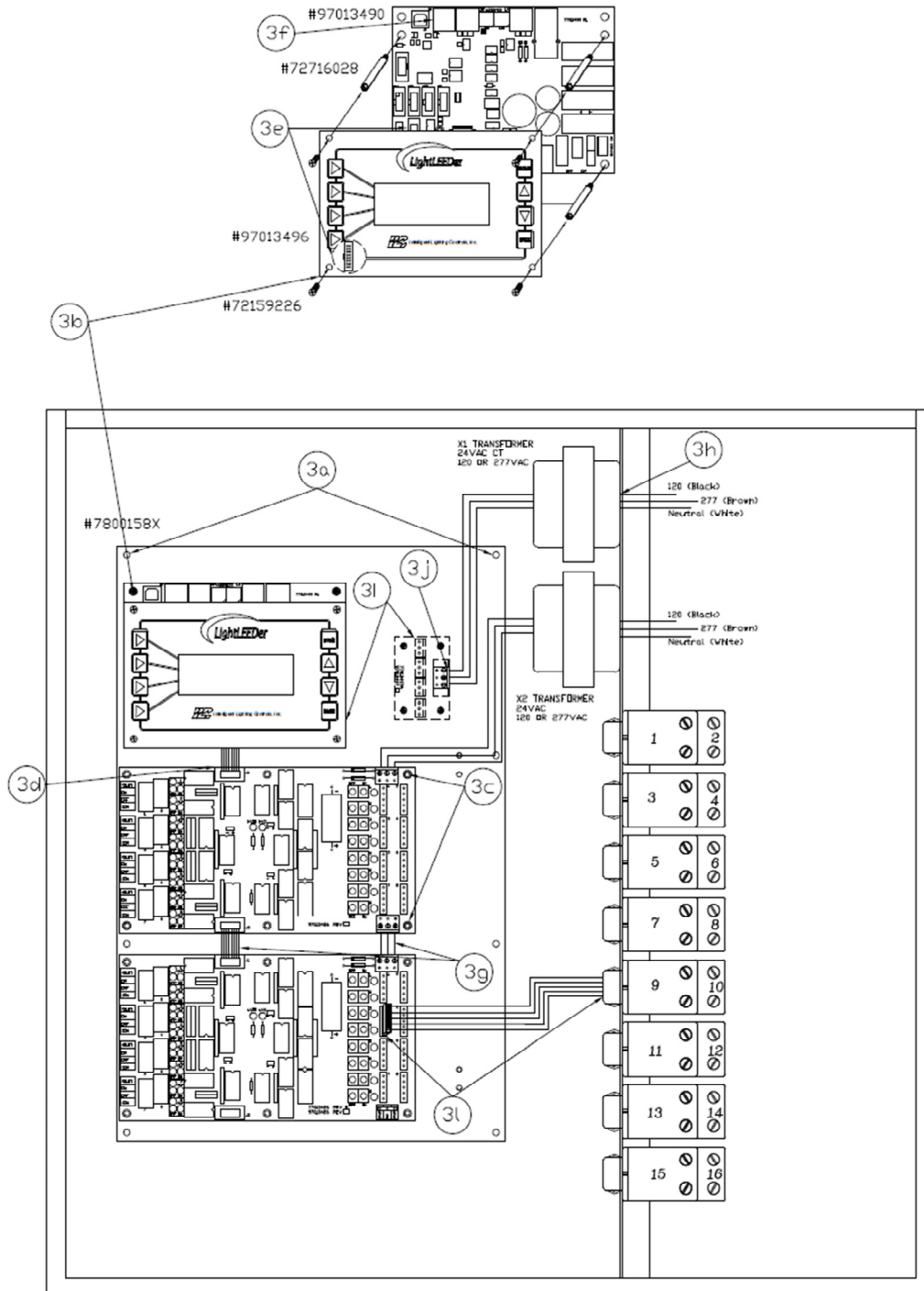
METHOD 1: Use Existing RSX I/O Boards and TR Relay



- a. Install RSX to LL Backplate #78001588 to existing back plate using 4 screws provided

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- b. Install LightLEEDer CPU #97013490 onto upper screw PEMs of the backplate and secure with the standoffs #72716028 provided
 - c. Install RSX Retro Interface Board #97013533 onto the backplate and secure with the screws #72159226 provided
 - d. Route the CAT-5 cable provided from the local port of the LL CPU to the in port of the LL RSX Retro Interface Board
 - e. Connect keypad ribbon cable #92020320 from the keypad assembly into the designated port on the LL CPU, and secure the keypad #97013496 onto the standoffs with the 4 screws #72159226 provided
 - f. Connect the CAT-5 Data Cable from the previous Panel to the In Port of the CPU if Panels are networked
 - g. Terminate the 8 data wires from the existing RSX I/O board to the RSX Retro Interface board data connector as shown
 - h. Install X1/X2 24 VAC CT reverse bell transformers #52201126, terminate the primary connections with 120 or 277 VAC and cap the unused wire.
 - i. Install the Power Distribution Board #97013497 using Nylon standoffs #72716016, connect the CPU and RSX Retro Board using provided cables
 - j. Terminate the secondary connection from the X1 transformer to the power leads provided (12VAC to Red, CT to Yellow, 12VAC to Red) and connect to the PDT
 - k. Terminate the Red wires from the X2 transformer to the existing 24 VAC and LED spade connectors that are terminated on the I/O board; insert diode in series with LED pin ONLY (Be sure to cap the unused yellow CT wire)
 - l. Reconnect Yellow Relay Cables to RSX I/O boards as needed

METHOD 2: If Upgrading to LM I/O Boards (Use Existing Relays or new 2R9C):



- a. Install Retrofit Backplate #78001584/5/6 to existing back plate using screws provided

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- b. Install LightLEEDer CPU #97013490 onto upper screw PEMs of the backplate and secure with the standoffs #72716028 provided
 - c. Install LightMaster I/O Boards #97013486 and secure with screws #72159226 provided
 - d. Route the LL to LM Ribbon Cable #92020325 provided from the LL CPU to the first LightMaster I/O Board
 - e. Connect keypad ribbon cable #92020320 from the keypad assembly into the designated port on the LL CPU, and secure the keypad #97013496 onto the standoffs with the 4 screws #72159226 provided
 - f. Connect the CAT-5 Data Cable from the previous Panel to the In Port of the CPU if applicable
 - g. Connect the remaining I/O Boards in series with provided ribbon cables #92020301 and power cables #92020356
 - h. Install X1/X2 24 VAC CT reverse bell transformers #52201126, terminate the primary connections with 120 or 277 VAC and cap the unused wire.
 - i. Install the Power Distribution Board #97013497 and connect the CPU using provided power cable #92020334
 - j. Terminate the secondary connection from the X1 transformer to the power leads provided (12VAC to Red, CT to Yellow, 12VAC to Red) and connect to the PDT
 - k. Terminate the secondary connection from the X2 transformer to the power leads provided (12VAC to Red, CT to Yellow, 12VAC to Red) and connect to the LM I/O
 - l. Connect Relay Cables to LM I/O Board as needed

If Upgrading TR Relays to 2R9C:

- m. Remove Relay Cables from Relays as needed
- n. Replace existing relays with new 2R9C relays provided
- o. Connect Relays to LM I/O Boards using Relay cables provided