

BUSWAY SUPPORTS ARE SUPPLIED BY OTHERS WITH THE MAXIMUM SPACING BETWEEN HANGER OF 10'-0". A VARIETY OF HANGERS ARE AVAILABLE TO SUIT MOST SITUATIONS (SEE CATALOG).

Tools needed to install Busway: Installation tool (provided), 1/8" allen wrench and a spliced head screw driver. Two persons are needed to install a 10ft. section of B800 Plug-In Busway.

- 1) Begin installation at one end of the Busway, preferably at the location of the customer supplied power source. If an end feed box is used, it can be attached before or after.
- 2) The first section of Busway is installed on the supports. Insure the polarizing stripe on the first Busway section matches the end feed Busway section / SDB.

- 3) Attach the hanger bolts to busway supports. Prior to sliding the supports into the busway, hanger channel insert a pair of BHCB00-1 housing couplers into the top and bottom channels on one housing. The BHCB00-1 and the hanger channel of the Busway are Polarized and can only be inserted one way. Slide the supported hanger bolts into the busway/hanger channel. Once in position secure the supports by tightening the hanger bolts. Install additional section(s) in a similar manner.

- 4) Join the two adjacent sections together by first positioning the top BHCB00-1 housing coupler equal distance across the two sections. Tighten the set screws securely.

- 5) From the bottom, install one side of the BC-800 kit. The connector bodies are leveled (and labeled) to fit into the appropriate side of the busway sections (RD-BLK-GRN goes into the polarized side and BLU-WHT goes opposite the polarized side). It may be necessary to slide the shutter assemblies away from the joint in order to move the housing coupler out of the way of the connector bodies. This will be necessary in some cases when attaching the EF unit to a section end that has a short setback to the shutter. Insure the connector is centered on the joint. Push the bus connector into the busser using the BT-5-IT installation tool. Insure the installation tool inside the slot at the joint, position the collar around the busway housing making sure the radius of the tool is against the bus connector cover. Using the lever, rotate the installation tool and release. WORK from one end of the connector body to the other until the copper blades are firmly sealed into channel (more force can be applied by extending the BT-5-IT handle with a 2 foot piece of pipe). Once the first the connector body is in position insert the second by sliding it into the housing opposite the first. Using the BT-5-IT tool once again seal the bus connector as previously described.

- 6) To complete, center the bottom BHCB00-1 between the two sections and tighten the set screws (if the shutters had been slid away from the joint during the installation process they should be moved back to their original position after the joint is secure).

Repeat the following steps until Busway unit is complete.

- Check to make sure that you have the appropriate elbow (EL800T5-4-R or -L) for the direction of travel. Refer the illustration on right.

- The elbows are designed to carry power around a corner.

**Warning: Plug-In Units cannot be installed into an elbow. You must be a minimum of 6 inches away from the Housing Couplers on the Busway to install a Plug-In Unit.**

- 8) Install the elbow onto the end of the Busway section by using the installation tool supplied with your order. The elbow can be installed onto the busway section before or after suspension. The elbows installs like a standard section (ie step 4, 5 & 6).

Check to be sure that all screws are tight and all electrical connections are secure.

- 9) Install the EC800T5 end cap at the end of the busway run and tighten the 2 set screws to secure it in place.

- 10) The EF800T5-4 and EF800T5G-4 End Feed Units are used to make field wiring connections to the B800T5 / B800T5G Busway at the end of a run. The End Feed box installs like a standard section. Wiring connections are made to the copper blades by means of aluminum box style lugs.

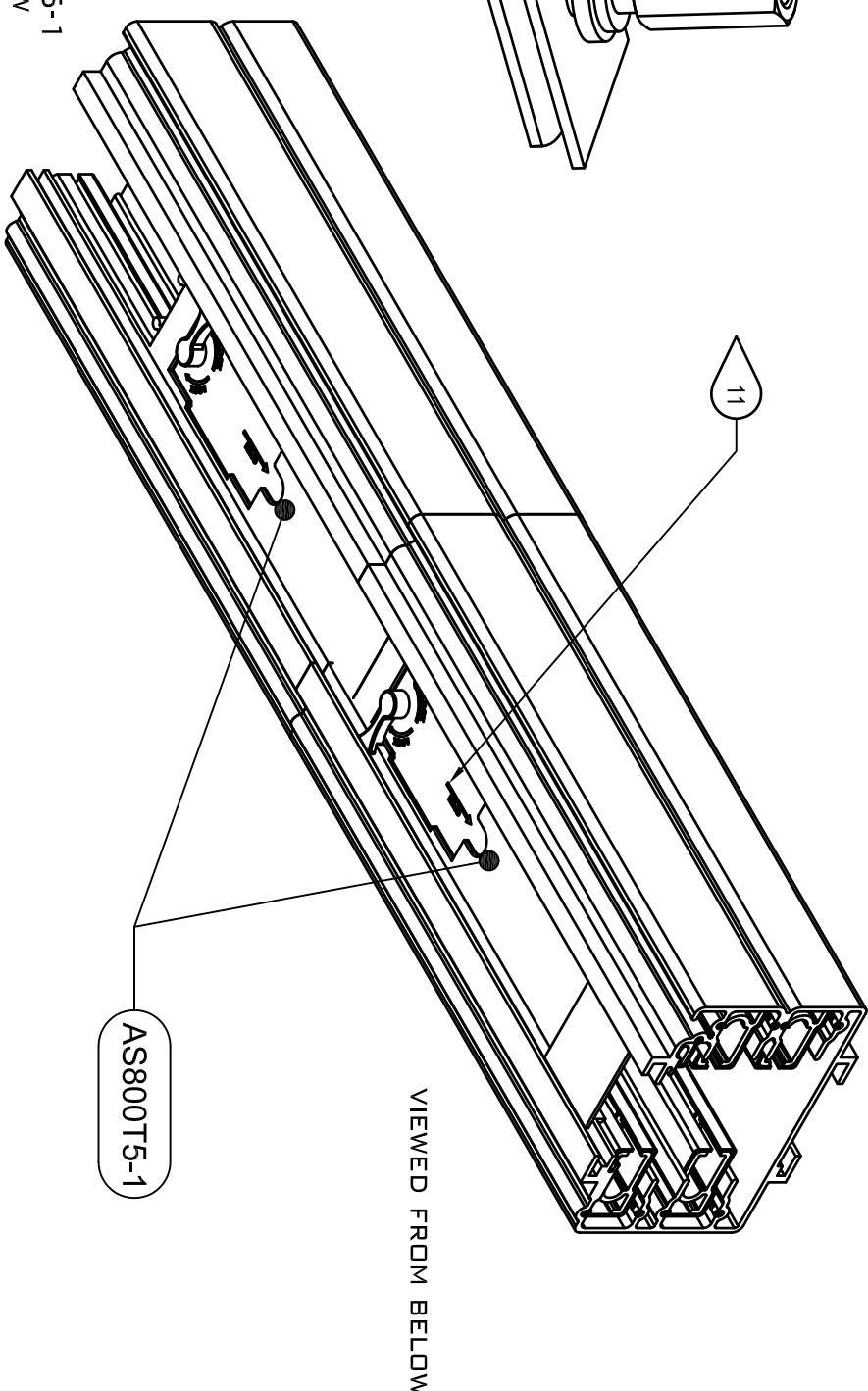
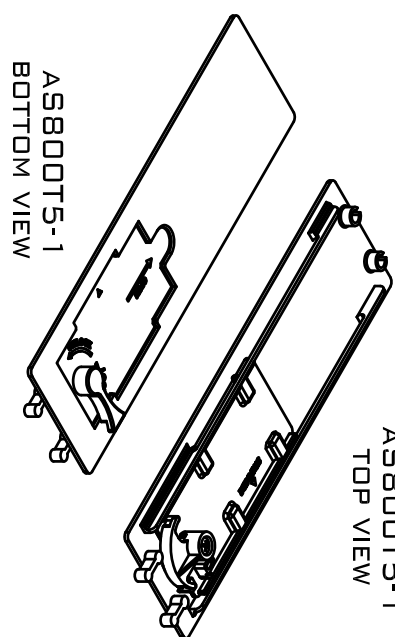
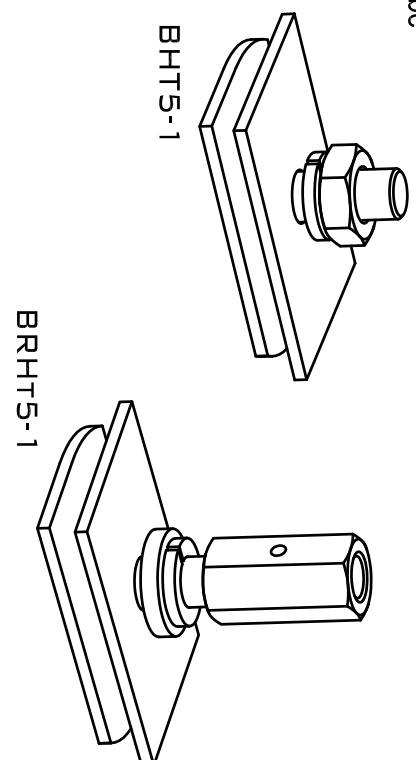
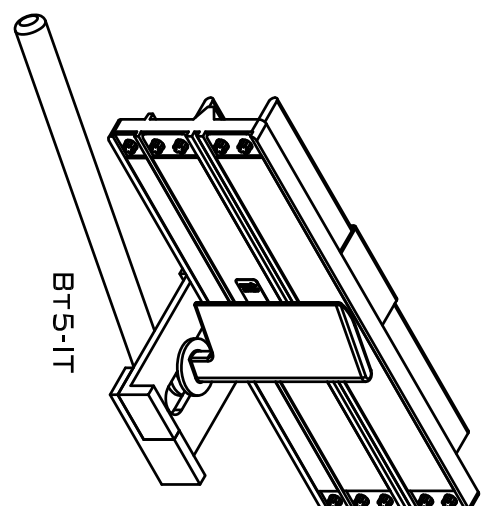
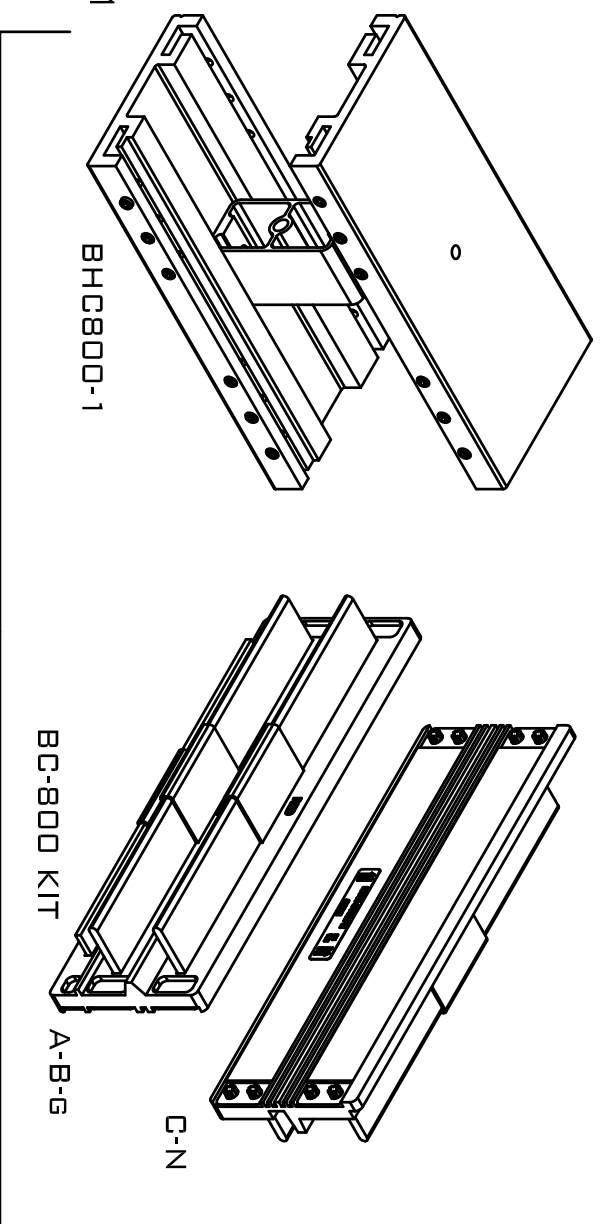
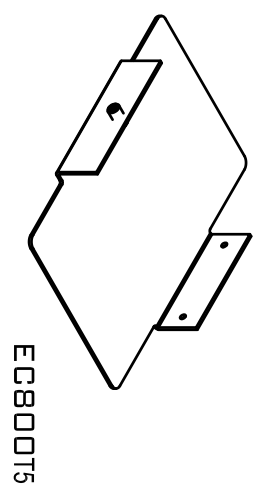
For all versions, safety ground connection are made to the box with the lug provided. Isolated ground systems provide a separate, additional connection.

**Warning: Make sure the power is off before making your wire connections inside the End Feed Box.**

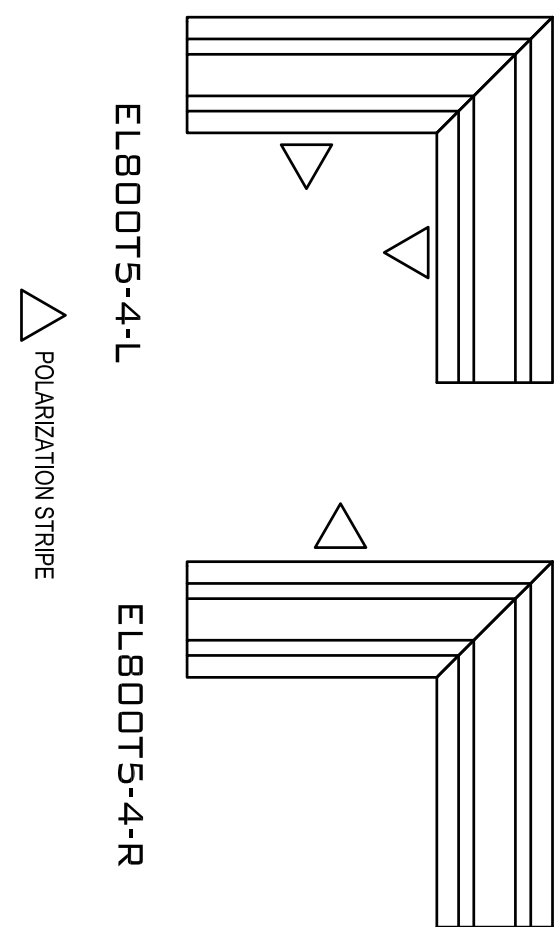
The End Feed Box can be installed on the busway section before or after hanging the busway.

For field wiring:  
Remove the lug from the end feed block. Attach wire to lug. Retained back on block. In some cases it may be possible to install wire into the lug with out removing the lug from the block. End feed units will accept up to (2) 600MCM cable per lug. Secure by tightening the set screw to 375 in/lbs. Repeat for the remaining connections.

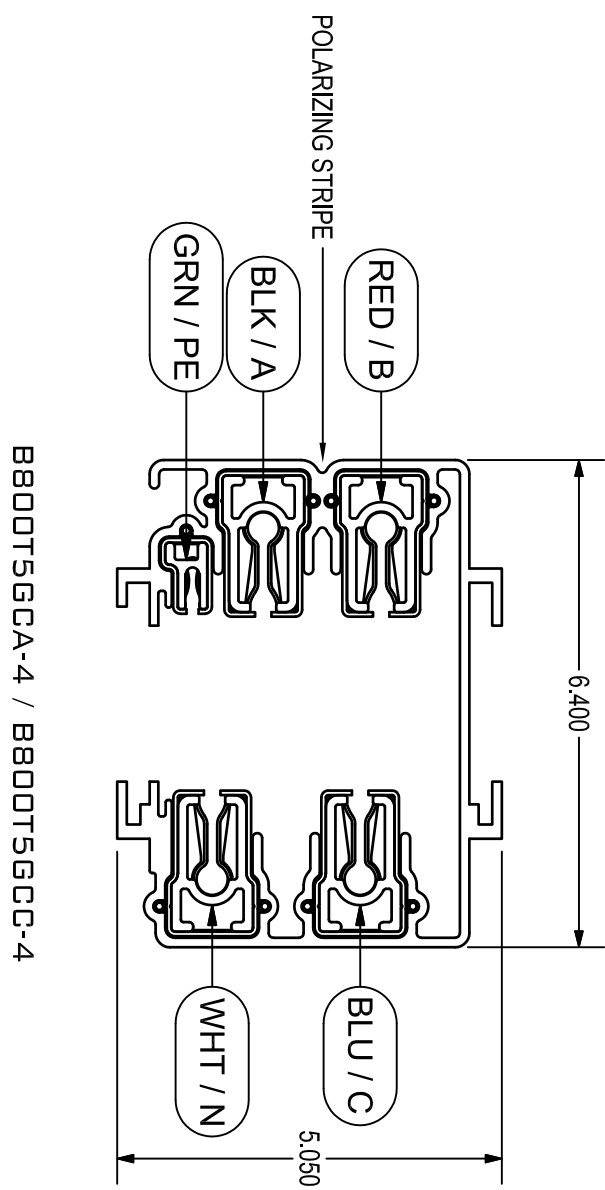
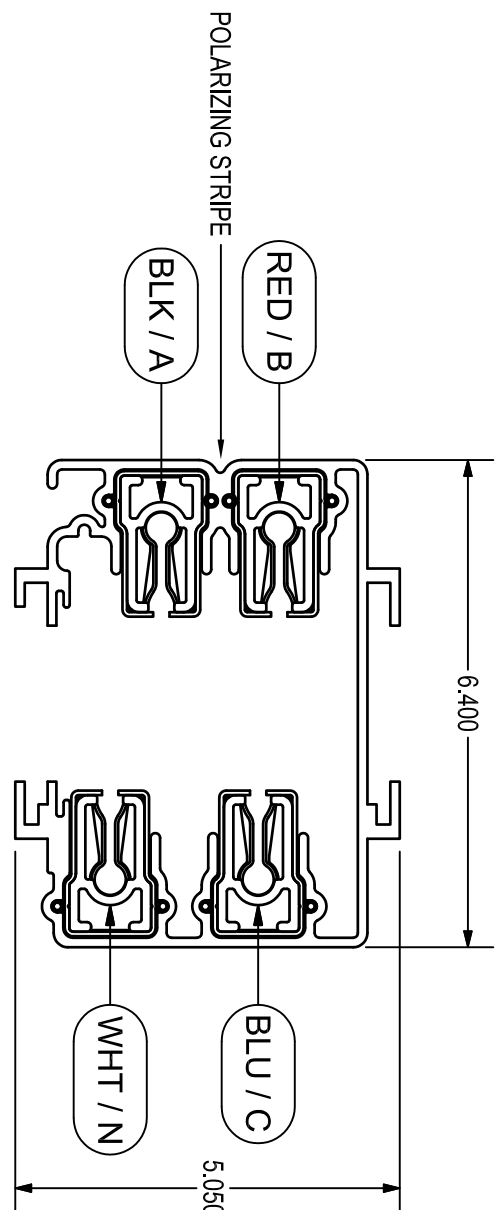
- 11) Access shutters, AS800T5-1, are pre-installed along the length of each section of busway. The shutters provide plug-in unit access. To use, twist the knob clockwise to the unlock position. Once the knob is in the unlock position slide the panel open. Insert the plug-in unit paddle through the open shutter and twist into place.



## ELBOW FITTINGS NTS



## CROSS SECTION 3:8



**STARLINE**  
TRACK BUSWAY

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CA - COMPOSITE ALUMINUM  
CC - COMPOSITE COPPER  
B800T5SCG-XPG-10  
3 OR 4 POLE  
LENGTH IN FEET

UNIVERSAL ELECTRIC CORPORATION

| REVISION HISTORY               |                          |           |          | DATE                           |             |           |          |
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