

## Spectra Series™, Spectra II Series & Lowamp Busway

### DEH-40096A Busway Plugs Installation Instructions

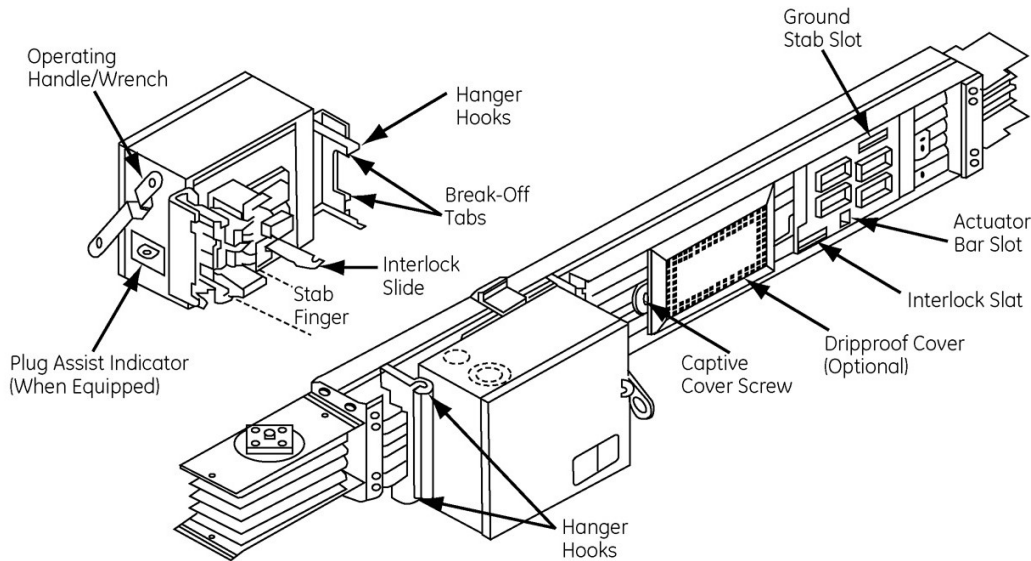


Figure 1. Plug mounting.

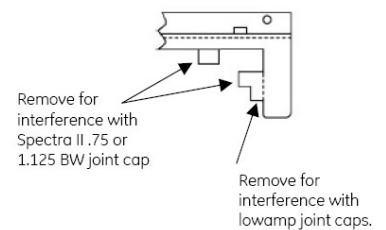


Figure 2. Break-Off Tabs



**WARNING:** HAZARD AND ELECTRICAL SHOCK OR BURN! The plug must be turned OFF before installing on or removing from the busway. Failure to do so may cause serious injury or death! It is a good safety to de-energize the busway before inserting or removing bus plugs. In the United States, it is necessary to comply with all Federal and local safety procedures, including NFPA 70E 2-1.3 directing the use of appropriate PPE (Personal Protective Equipment) such as face shield, insulating gloves, and flame resistant clothing. In Canada, be sure to comply with the appropriate requirements of the Canadian Electrical Code. Only properly trained personnel may install bus plugs on or remove them from energized busway. In addition, all bus plug installation instructions must be followed completely.

Note the following points concerning busway plugs:

- Inspect the plug before installing on the busway.
- Stab fingers have been lubricated with grease, which should not be removed.
- Dripproof plug-in busway has a dripproof cover over the outlet. Unscrew the cover and reattach the cover to the left side of the outlet, using the screw on the right side of the cover. This relocates the cover so it is out of the way for plug insertion.
- The actuator bar polarizes and locates the plug in the correct position only.
- Plugs are interlocked, permitting engagement and disengagement with the busway only when in the OFF position.
- Place the operating handle at the desired position on the plug and secure it with the screw provided. The NEC requires the ON

handle position to be up and the OFF handle position to be down.

- If plug-assist has been furnished on the plug, the operating handle may be used as a wrench to operate the mechanism.
- To install a plug where the rear plug hanger interferes with a joint cap, it is necessary to remove the break-off tabs, as shown in the Figure 2.
- On large plugs, drop rod brackets are provided for auxiliary support of the plug on the horizontal runs.



**CAUTION:** Make certain that the bus plug is level in all orientations with the busway after all connections are completed. Failure to level the plug could result in overheating of the plug connection.

### **Installing a Plug Not Equipped with Plug-Assist**

1. Make sure the device is in the OFF position.
2. Loosen the four bolts on the hanger hooks.
3. Align the actuator bar of the bus plug with the vertical actuator bar slot on the shutter and push firmly, the shutter will open and the bus plug stabs fingers will engage the bus bars.
4. Push the stabs into the full contact with the busway.
5. Engage the four hanger hooks with the busway rails and tighten the bolts.

### **Installing a Plug Equipped with the Plug-Assist**

1. Make sure the device is in the OFF position and the plug-assist indicator is rotated fully toward the stabs-OUT position.
2. Loosen the four bolts on the hanger hooks.
3. Align the actuator bar of the bus plug with the vertical actuator bar slot on the shutter and attach the line end hanger hooks to the bus rail and tighten.
4. Recheck alignment of actuator and vertical slot and attach load end hanger hooks to bus rail and tighten.
5. Engage bus plug by rotating the plug assist mechanism, the shutter should open and the bus stab fingers will engage the bus bars. The pointer should indicate "Stabs-IN".



**NOTE:** On the vertically mounted plugs, push up on the plug to remove the weight of the plug from the alignment pin before tightening the bolts in step 4.



**WARNING:** Be sure that the plug-assist pointer is lined up with the IN position before turning the plug on. Failure to do so may result in serious injury or death.

### **Removing a Plug**

First turn the device OFF. Then follow the appropriate procedure above in reverse order.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the GE Company.

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DEH-40096A (04/07)