



ReliaGear™ lighting panelboards

Service advisory installation instructions

Introduction

These instructions apply to the removal and replacement of a ReliaGear lighting panelboard interior.

If the new panelboard interior arrived with all devices and dead front, as shown in Figure 1, follow Section A.

Otherwise follow Section B. This includes panelboard interiors that arrived without devices, as shown in Figure 2, and Pro-Stock™.

Table 1. Parts list

Item #	Description	Part #	Qty.
1	Panelboard interior	Various	1
2	Instruction sheet	GEH5920	1
3	Interior hardware	N722EP21006B6	
4	Dead front hardware	192A6976P189	
5	Service advisory label	315A7219P4	
6	Discarded material sticker	315A7219P7	

Installation



WARNING: Danger of electrical shock or injury. Turn OFF power ahead of the panelboard before working inside the equipment or removing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.



Figure 1. Interior supplied with devices and dead front. Follow Section A.

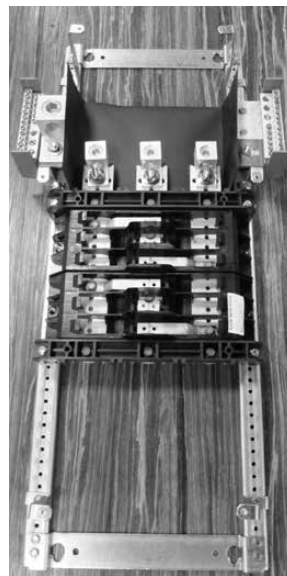


Figure 2. Interior supplied without devices and dead front. Follow Section B.

Section A – Interior supplied with all devices

1. Ensure power is turned OFF.
2. Compare the affected interior to the provided interior to ensure sizing, layout, and devices are identical.
3. Remove the panel door and dead front. Set aside. Disconnect all main, feeder, and neutral conductors. If applicable, also disconnect the conductors from sub-feed and feed-through devices.
4. Remove the interior by first removing the bottom two 1/4" screws, then loosening the top two. Screw locations are shown in Figure 3. If applicable, remove any additional hardware that was installed to attach the interior to the enclosure. Once all hardware has been removed, lift the interior slightly upwards and out.
5. Reinstall the new interior by first hanging it on the top two 1/4" screws. Then install the bottom two. Alternately the supplied hardware (Item 3) can be used. Reinstall any additional hardware that was removed in step 4 of Section A. Lastly, torque all 1/4" screws to 40 in-lbs, and if applicable #10 screws to 30 in-lbs.
6. Reconnect all conductors that were removed in step 3 of Section A and torque to appropriate values as defined on the dead front label.
7. Install the dead front using the supplied hardware (Item 4) and torque to 30 in-lbs. Reinstall the front.
8. Adhere the supplied label (Item 5) to the dead front in close proximity to the rating label as shown in Figure 4.
9. Return the removed interior as instructed by ABB post sales service.



Figure 3. Removing interior hardware

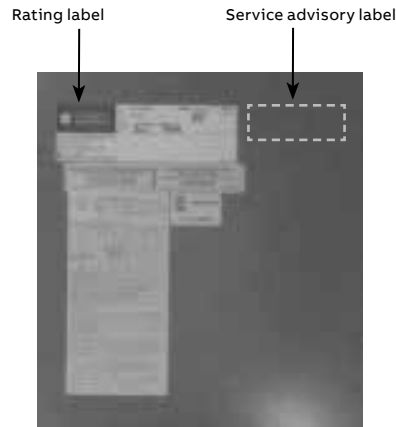


Figure 4. Placement of green service advisory label

Section B – Interior supplied without devices or Pro-Stock

1. Ensure power is turned OFF.
2. Compare the affected interior to the provided interior to ensure sizing and layout are identical.
3. Remove the panel door and dead front. Set aside. Disconnect all main, feeder, and neutral conductors. If applicable, also disconnect the conductors from sub-feed and feed-through devices.
4. Remove all feeder and horizontal sub-feed devices by disconnecting at the line end electrical connection and set aside. If the device is mechanically mounted in addition to the electrical connection, remove the mechanical mounted hardware as well and set aside.
5. If the panelboard has a horizontal main device, remove in the same manner as in step 4 of Section B and set aside.
6. If the panelboard has a vertical main device and/or a vertical sub-feed device, remove the devices along with straps connecting the devices to the panelboard bus. The straps are connected through 5/16" nuts located on the bus studs. Additionally, remove any other hardware used to mechanically mount the device. Location of the nuts and mounting hardware for a vertical main device is shown in Figure 5. Set aside.
7. If the panel has an SPD or TVSS device, remove in the same manner as in step 6. Set aside.

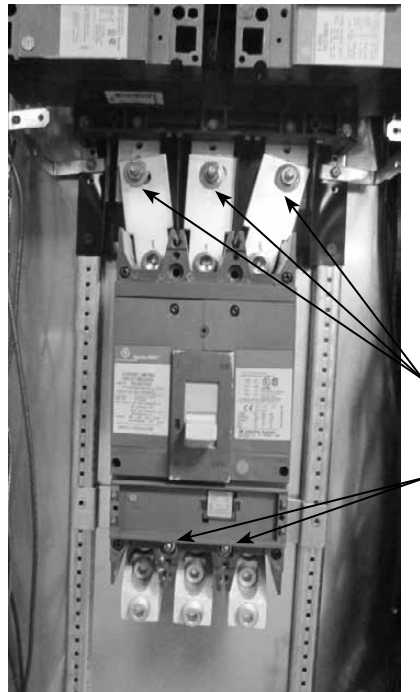


Figure 5. Removing vertical device strap nuts and mechanical mounting hardware.

8. Remove the interior by first removing the bottom two 1/4" screws, then loosening the top two. Screw locations are shown in Figure 3. If applicable, remove any additional hardware that was installed to attach the interior to the enclosure. Once all hardware has been removed, lift the interior slightly upwards and out. For convenience, stickers to mark discarded material are provided (Item 6). Apply to discarded interior as it is removed to maintain traceability.
9. Reinstall the new interior by first hanging it on the top two 1/4" screws. Then install the bottom two. Alternately, the supplied hardware (Item 3) can be used. Reinstall any additional hardware that was removed in step 8 of Section B. Lastly, torque all 1/4" screws to 40 in-lbs, and if applicable #10 screws to 30 in-lbs.
10. If applicable, reinstall the SPD or TVSS device removed in step 7 of Section B. Torque the 5/16" nuts to 110 in-lbs and mechanical mounting hardware to 30 in-lbs.
11. If applicable, reinstall the vertical main device and/or vertical sub-feed device along with straps removed in step 6 of Section B. When installing the devices ensure the phase barrier separating the straps is correctly aligned as shown in Figures 6A through 6C. Torque the 5/16" nuts to 110 in-lbs and mechanical mounting hardware to 30 in-lbs.
12. If applicable, reinstall the horizontal main device removed in step 5 of Section B. Torque the electrical connection and, if applicable, mounting hardware according to Table 2.

Table 2. Hardware torques on horizontal devices.

Device type	Hardware size	Torque
TQB/TQL/TEY circuit breaker	#10-32	30 in-lbs
SE/TED/SF/SG/TQD/FB circuit breaker	1/4"-20	60 in-lbs
Device mounting hardware	#10-32	30 in-lbs

13. Reinstall all feeder and sub-feed devices removed in step 4 of Section B. Torque the electrical connections and, if applicable, mounting hardware according to Table 2.
14. Reconnect all conductors that were removed in step 3 of Section B and torque to appropriate values as defined on the dead front label.
15. Install the dead front using the supplied hardware (Item 4) and torque to 30 in-lbs. Reinstall the front.
16. Adhere the supplied label (Item 5) to the dead front in close proximity of the rating label as shown in Figure 4.
17. Destroy and render unusable the discarded interior.

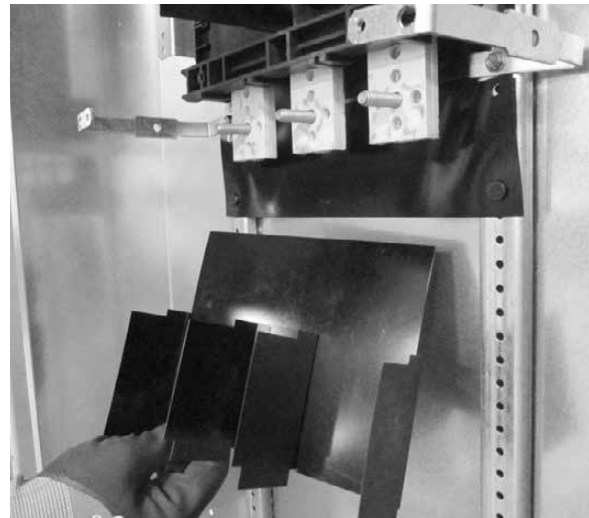


Figure 6A. Illustration of phase barrier removed.

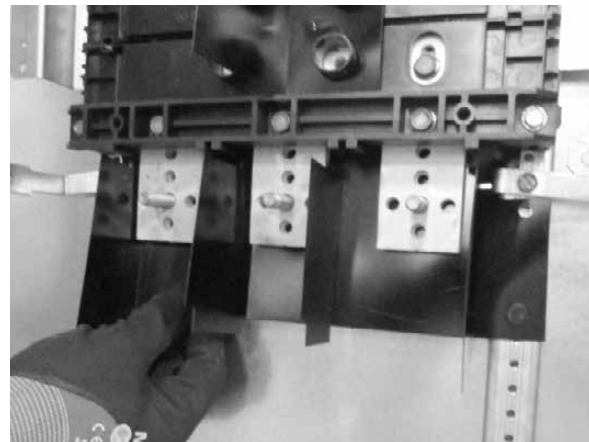


Figure 6B. Illustration of phase barrier correctly aligned between main bus bars.



Figure 6C. Illustration of phase barrier correctly aligned between main bus bars and connecting straps.



WARNING: The discarded interior CANNOT be re-used.

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