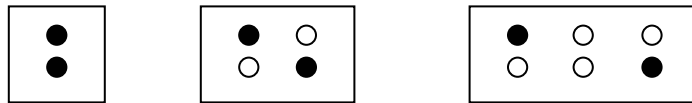


GNB ABSOLYTE IIP CELL REPLACEMENT PROCEDURE

This procedure covers the replacement of an Absolyte cell in the field, and includes the removal of the existing cell and installation of the new cell. **This procedure is *only* for the replacement of individual Absolyte IIP cells *after the battery has been removed from service* in accordance with local procedures. Contact GNB if any of these instructions are not fully understood.**

1. Safety clothing should be worn, including safety glasses or a protective face shield. Insulated tools should be used.
2. Prior to disassembly, note the exact connection layout to insure proper reassembly of all connections.
3. Remove the connectors from the cell to be replaced and the adjoining cells. While removing any connector, hold firmly to prevent the connector from rotating and shorting with other connectors or terminal posts.
4. Remove any intermodule connectors that may impede the removal of the cell restraint bars. Be aware that on grounded systems a voltage potential can exist between the intercell connectors and the tray.
5. Remove the cell restraint bars, making sure they do not rotate and come in contact with cell connections below or above.
6. Remove vent cap protective cover by gently prying the edge with a small screwdriver. The vent cap protective cover is attached at four points to the vent assembly.
7. Wrap a cloth over the vent removal tool and release the pressure of the cell to be replaced by turning the vent counter-clockwise no more than 90°. The cloth is wrapped over the tool and covers the vent opening to catch any acid mist that may expel from the cell. This procedure is referred to as “venting” the cell. Adjacent cells may also need to be vented to allow the cell to be removed.
8. Attach the cell puller to the cell by threading the puller into the battery cell posts using the insulated handles. **ONCE THE PULLER IS INSTALLED DO NOT HANDLE IT EXCEPT USING THE INSULTATED HANDLES OR THE MAIN HOOK.** For multiple post cells the puller should be installed into the outermost posts in a diagonal:



Remove cell from module by pulling on the cell puller hook.

NOTE: CELLS ARE HEAVY. CELL MUST BE SUPPORTED ALONG ITS ENTIRE LENGTH DURING THE REMOVAL/INSTALLATION PROCESS.

NOTE: CARE MUST BE EXERCISED TO NOT DAMAGE THE CELL'S PLASTIC JAR AND COVER.

9. Examine the empty cell compartment in the tray. Clean and neutralize as required.
10. Install the new cell in the module with the polarities properly aligned. It will be necessary to vent the new cell. Proceed slowly with cell insertion and be careful not to damage the jar-to-cover seal area. After the installation tighten the vent cap and replace the vent cap protective cover on any vented cells.

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11. Reinstall the cell restraint bars. Torque the bolts to 35 in-lbf.
12. Using a Scotch-Brite pad, clean and burnish all the cell terminals and cell connectors, and apply a thin film of NO-OX-ID grease.
13. Install the connectors and torque the terminal bolts to 11 Newton-meters (100 in-lbs.).
14. Once all connections are completed, check the open circuit voltage of the complete battery system to insure all connections are correct.

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Revision: AB
Author:

Drawing Number: 420290-A
ECO #:

History: Rev: New ECO # 0000239
 Rev: A Added step 6 detail, step 8 detail, NOTES to step 10, torque value to step 11.