



Cutler-Hammer

Installation, Operating & Maintenance Instructions for Pringle Type CBC Switches

Instruction Sheet G

December 2008

WARNING

Do not attempt to install switches or perform maintenance on equipment while it is energized. Failure to following this warning could lead to death or severe injury. Always verify that no voltage is present on all switch terminals prior to servicing. While energized, an arc flash and shock hazard exists. Consult NFPA 70E and OSHA guidelines for operator safety prior to servicing equipment.

INSTALLATION

Quality control processes along with testing at the factory eliminates the need for adjustments to the switch. The installer should, however, give consideration to the following:

1. The switch is shipped in the CLOSED position, with the dead front operating handle and trim plate unmounted. The closed switch should be mounted in the vertical-upright position in the switchboard. The operating handle should be bolted to the operating shaft so that it is horizontal, extending to the right. The switch should be operated in a test fashion and left in the CLOSED (charged) position before making the terminal connections. Before bolting bus bars to the terminals, a check should be made to ensure that the bus is in line (flat, parallel and properly located) with the switch terminals. If cables are being used, they should be properly supported.

2. After making the connections, the switch should be operated in a test fashion again and left in the CLOSED position.
3. Remove the operating handle, and after installing the switchboard cover, mount the trim plate and reattach the handle to the shaft so that it is horizontal, extending to the right.

OPERATION

To open: Push the red manual push-button.

To close: Rotate the operating handle counter-clockwise 90° from the horizontal position to the vertical position. (This action charges the "opening" spring but does not "close" the switch.) Then rotate the handle clockwise 90° from the vertical to the horizontal. (This action "closes" the switch.)

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Inspect the switch once each year or after any severe over current event.



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Printed in USA
Publication No. IL00808003E
December 2008

1. Check that the exposed switch contacts (jaw and upper part of blades) are free from dirt.
2. If they have accumulated dirt, clean with CRC-226 (or equal) before lubricating.
3. Apply a thin coating of Rheolube 363 (Available from William F. Nye, Inc., New Bedford, MA, 508-996-6721).
4. Operate the switch in a test fashion several times to work the lubricant between the contacts.
5. Apply CRC 3-36 (or equivalent) to pivot points and bearings of dead front mechanism.
6. Replace any barriers and parts which have been removed for maintenance, operate the switch in a test fashion several times and leave OPEN.
7. Proceed with energizing sequence per practices and guidelines as noted in NFPA 70E and OSHA.