

Safe Practices

This guide should be read carefully and used accordingly during the inspection and replacement process.

When checking or observing breakers and switchgear, only qualified persons who are familiar with the installation and maintenance of medium voltage equipment should be permitted to work on these components. Be sure to use proper personal protective equipment.

DO NOT work on an energized circuit breaker.

DO NOT work on a circuit breaker unless all components are disconnected by means of a visible break and securely grounded.

DO NOT work on a circuit breaker with power supplied to the secondary control circuit.

DO NOT defeat safety interlocks. This may result in bodily injury, death and/or equipment damage.

DO NOT work on a closed circuit breaker.

DO NOT work on a circuit breaker with charged energy. (Springs, capacitors, etc.)

DO NOT use a circuit breaker by itself as the sole means of isolating a high voltage circuit.

DO NOT leave a circuit breaker in an intermediate position in a cell. Always place the circuit breaker in the Disconnect, Test or Connect position.

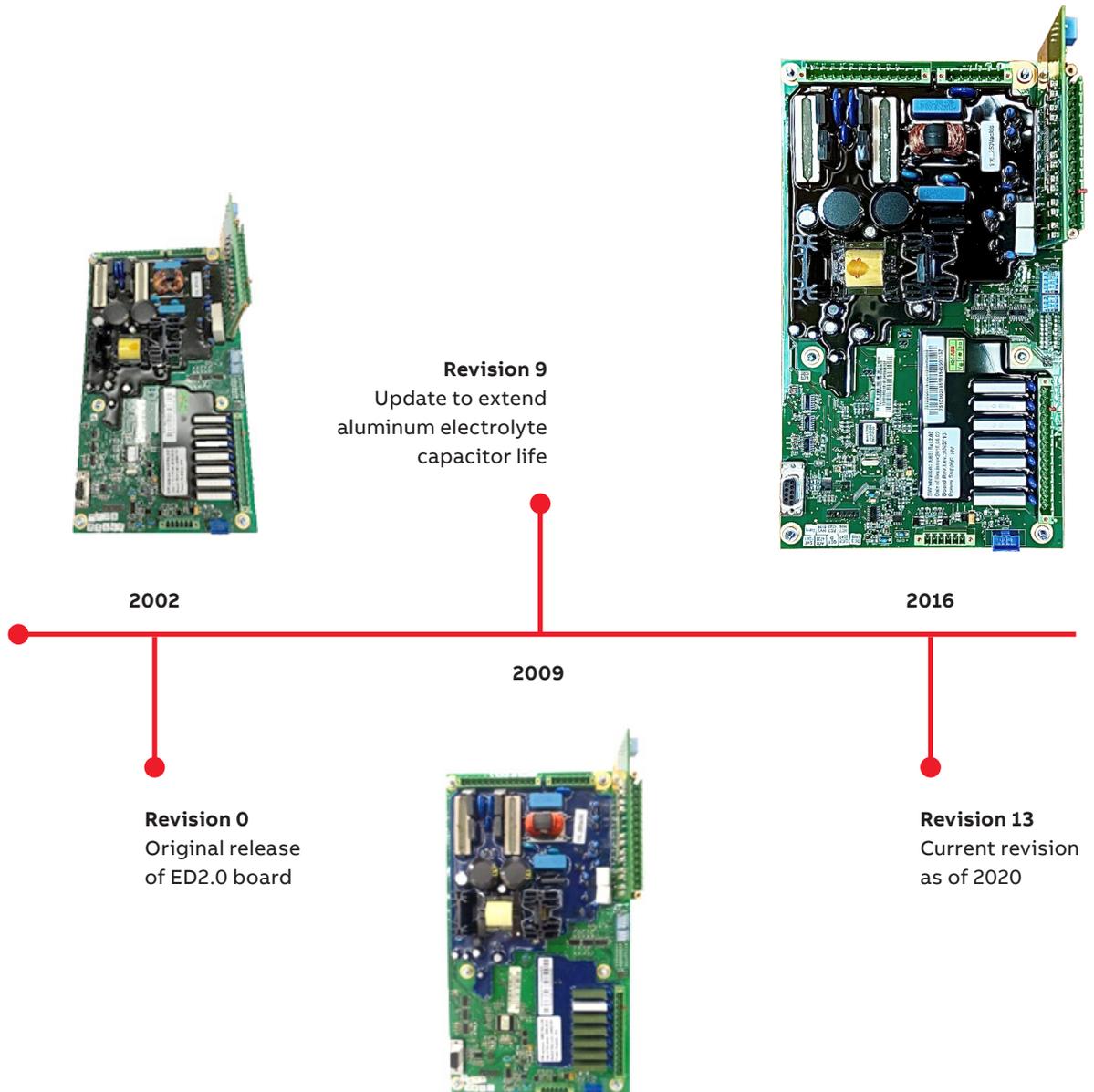
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DANGER!

Not adhering to these instructions may result in personal injury or DEATH, and permanent damage to the breaker and other equipment.

Control Board History

The ED2.0 control board is an ABB global component used in various magnetically actuated breakers including AMVAC indoor breakers, R-MAG outdoor breakers, and Roll-in replacement breakers. Revisions occur over time to enhance product capabilities and performance and to substitute components that may no longer be

available or even to reflect the improvement in manufacturing capabilities. Below is a simplified control board revision timeline with emphasis on Revision 9 as this is when the important update to extend aluminum electrolyte capacitor life occurred.



When to Consider Control Board Replacement

To maximize the reliability of your equipment ABB recommends proactively replacing the ED2.0 control board based on two criteria: revision level and age. These boards are readily available and can be replaced in the field with no special tools or equipment.

Revision Level

If earlier than Revision 9, ABB recommends replacing the board immediately. To verify revision level, please check the label near the center of the board (see picture below).

Age

Depending on environmental conditions, the control board life expectancy can range from 15-30 years. The decision to replace on age alone should take into consideration the site's specific environmental conditions. To verify age, please check the manufacturing date of the breaker. This date is located on the rating label on the front cover of the breaker. If no date is shown, contact the factory at 843-413-4700.

