

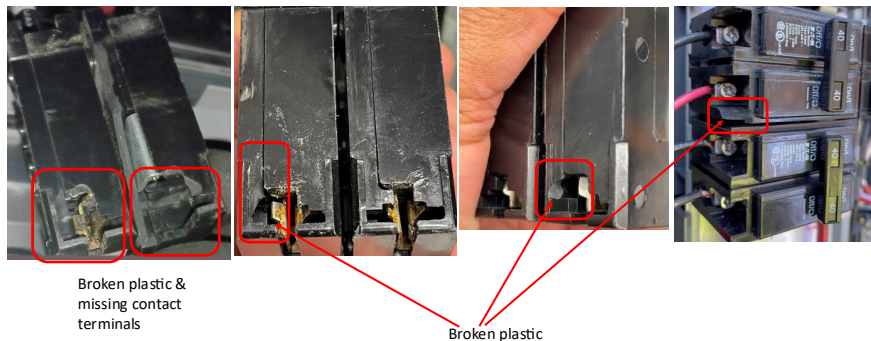
Improper circuit breaker installation may cause failures in IQ System Controllers.

Installers are advised to visually inspect breakers prior to installation and to confirm breaker functionality by performing an electrical continuity test.

How to visually inspect a breaker prior to installation.

Prior to installing a circuit breaker, visually inspect the breaker for any cracks or broken contacts and discard any damaged breakers. Even hairline cracks can cause failure.

Examples of damaged breakers:



Example of breakers without damage:



How to test a breaker using an electrical continuity test.

With the breaker in the ON position, use a multi-meter to check continuity between the screw terminal of the breaker and the breaker contacts that plug into the load center.

- Proper installation: The multi-meter will indicate low resistance or close to zero Ohms (or an audible long beep) for both poles if the breaker is properly installed.
- Faulty installation: If the multi-meter does not indicate low resistance or close to zero Ohms (or there is no audible long beep), then the breaker may be faulty.

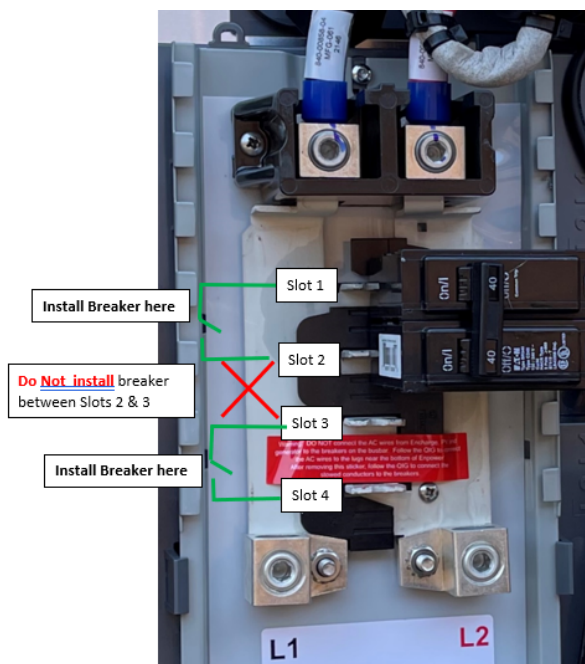


With the breaker in the OFF position, use a multi-meter to check continuity between the screw terminal of the breaker and the breaker contacts that plug into the load center. The multi-meter should indicate OPEN/OL for both the poles if the breaker is in proper working condition.

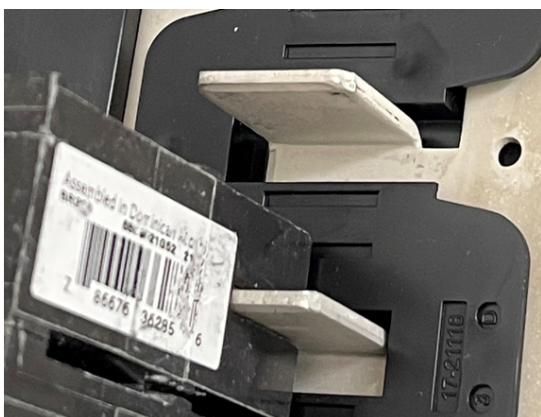
How to install a breaker in an IQ System Controller load-center busbar.

- Install a two-pole breaker only between slots 1 and 2 or between slots 3 and 4. Do NOT install a two-pole breaker between slots 2 and 3. Installing between slots 2 and 3 will likely result in damage to the breaker.
- Ensure the breaker is aligned with busbar slot before fully seating the breaker on the load center.
- Check electrical continuity again after the breakers are reseated.

Example of where the breakers can be installed:



Example of a properly seated circuit breaker:



Tip: Align the breaker first and then seat the breaker in the load-center slot.