

Tips and Tricks

- Route wires in strategic areas so homeowners and other trades are less likely to pierce through a wire.
- If possible, perform work after the other trades, i.e. HVAC and plumbing, have completed.
- Wire receptacles around the screw instead of backstabbing.
- Use properly maintained tools, i.e. sharp blades.
- Ensure a tight connection between light sockets and light bulb bases.
- Do not overload circuit with excessive amounts of electronics.
- Affirm furniture is not on or pushing against electrical wires.
- Watch for blackened plugs, very damaged wires, or noisy electronics.
- Electronics should be Underwriters Laboratories (UL) listed, or equivalent, and comply with part 15 of Federal Communications Commission (FCC) regulations.
- Protect electronics on surge protectors.

The PTT button is the only method recommended to verify the functionality of the AFCIs by National Electrical Manufacturers Association (NEMA) and UL.

Test AFCIs once per month to ensure proper working conditions.

RPMR-COMBO-0812

AFCI troubleshooting checklist

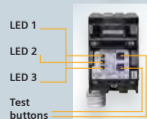
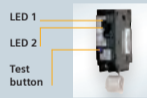
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Answers for infrastructure.

SIEMENS

For both 1- and 2-pole breakers, LED indications will appear for 5 seconds each time the AFCI is turned "ON" and will display each time the breaker is reset for up to 30 days after the last trip. The last known trip condition can be cleared by the following process:

1. Turn the AFCI to the "OFF" position.
2. Press and hold Push-to-Test (PTT) button(s).
3. Turn the AFCI to the "ON" position.
4. Release PTT button(s) within 3 seconds.



| 1-Pole CAFCI circuit breaker | | | | | |
|------------------------------|-----|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| LED indicators | | Last known trip condition | Troubleshooting | | |
| 1 | 2 | | | | |
| Off | Off | Overcurrent | Ensure current on the circuits does not exceed the current rating for the breaker. | | |
| On | Off | Arc fault | Check wiring for the parallel and series arc faults. Check devices for series arc faults. Use Intelli-Arc to assist and accelerate diagnosis. | | |
| On | On | Arc fault to ground | Check wiring, switches, and receptacles for possible ground leakage. Use Intelli-Arc or circuit tester to troubleshoot. Using safe electrical practices, systematically identify the source of the ground fault. | | |

| 2-Pole CAFCI circuit breaker | | | | | | |
|------------------------------|-----|-----|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| LED indicators | | | Last known trip condition | Troubleshooting | | |
| 1 | 2 | 3 | | | | |
| Off | Off | Off | Overcurrent | Ensure current on the circuits does not exceed the current rating for the breaker. | | |
| On | Off | Off | Arc fault (leg A) | Check wiring for the parallel and series arc faults. Check devices for series arc faults. Use Intelli-Arc to assist and accelerate diagnosis. | | |
| Off | Off | On | Arc fault (leg B) | | | |
| On | On | On | Arc fault to ground | Check wiring, switches, and receptacles for possible ground leakage. Use Intelli-Arc or circuit tester to troubleshoot. Using safe electrical practices, systematically identify the source of the ground fault. | | |