

Outline for Troubleshooting an AFCI

I) Determine the reason the circuit breaker and AFCI tripped

A) Use trip indicator for status:

1) No Yellow trip indicator present when tripped:

- a) overloads
- b) short circuits

2) Yellow trip indicator present when tripped:

- a) Incorrect installation
 - (1) *multi-wire branch circuits for single pole AFCIs*
- b) Faults to ground
- c) Arc faults

II) Debugging:

A) Overloads and short circuits

1) Same as any circuit breaker

B) Incorrect Installation, Faults to ground, and Arc faults

1) Check AFCI wiring

- a) Load power, load neutral, and panel neutral (pigtail)
- b) Multi-wire branch circuits used on single pole AFCI
 - (1) *Two pole AFCI needed for these applications*
- c) Check all connection points for neutral-to-ground connections

2) If no load present:

- a) Disconnect AFCI load side wires and re-energize AFCI
 - (1) *Panel neutral (pigtail) must remain connected*

3) If load(s) present:

- a) Disconnect all loads
- b) Re-connect and re-energize each load, one at a time