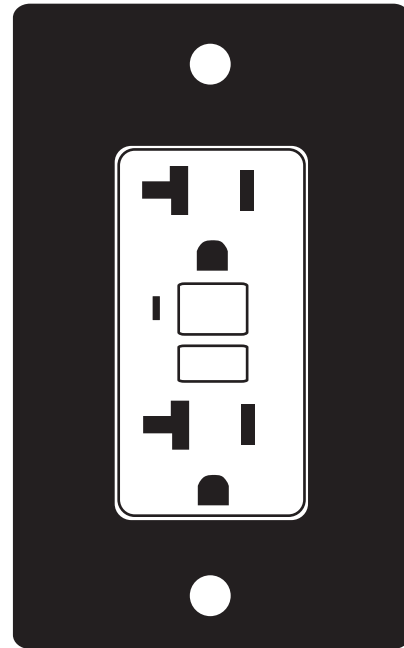


# Ground Fault Circuit Interrupter (GFCI)

- Fast-acting electrical circuit-interrupting device sensitive to very low levels of current traveling to ground
- Designed to detect leaks of electrical current that could cause personal injury
- Operation is based on line-to-ground fault currents
- GFCI will not protect if there is a line-to-line contact
- Receptacle GFCI protects only the associated receptacle and a few downstream
- Always use GFCI when working in wet (or potentially wet) environments
- At construction sites, locate the GFCI as close to the electrical equipment as possible
- Very long lengths of temporary wiring or extension cords may cause current leaks that exceed 5mA, tripping the GFCI
- Follow manufacturer's instructions
- GFCIs do not replace fuse or circuit breakers

## What Will Trip the Ground Fault Circuit Interrupter?

- Wet power tools or equipment
- Too many power tools on one GFCI
- Case-to-hot-conductor on defective electrical equipment
- Portable GFCI plugged into a GFCI protected branch circuit
- Electromagnetic-induced current near high-voltage lines
- Extension cords that are too long or coiled
- Improper installation or defective GFCIs
- Motors with dirty brushes



### Want to know more?

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