

FLUKE®

Student Troubleshooting Kit

Start with tools you can be sure of



Move from safety checks to fast, practical troubleshooting

What it does

This kit transitions electricians from basic voltage verification to efficient troubleshooting workflows. With the addition of the Fluke 302+ clamp meter, users can perform quick current readings, identify abnormal loads, and make confident go/no-go decisions without shutting down equipment.

It's a field ready solution built for electricians supporting residential and commercial, where speed, reliability, and safety matter.

Real world applications

Safety first current checks: Check motor loads, HVAC compressors, lighting circuits without breaking the circuit — reducing exposure to energized parts and improving diagnostic safety.

Maintain uptime with nonintrusive measurements: Perform current readings without shutting down live systems, boosting productivity and minimizing downtime in environments that must stay operational: panel boards, lighting circuits, motors, HVAC systems, and residential loads.

Wiring and outlet verification: ST120+ ensures receptacle wiring accuracy and GFCI protection before deeper diagnostics.

Load and circuit evaluation: The 302+ identifies overloads, phase imbalance, or unexpected draw in panels and branch circuits.

Daily service work: Compact size and rugged build make it ideal for rapid general-purpose checks and first-pass troubleshooting.

Included Tools



Fluke 1AC II Non-Contact Voltage Tester
90 V up to 1000 V AC detection **CAT IV 1000 V**, easy to use—just touch the tip to a terminal strip, outlet, or cord. When the tip glows red and the unit beeps, you know there's voltage in the line.



Fluke ST120+ GFCI Socket Tester with Beeper
Bright LEDs with 6 wiring conditions, one-button GFCI test, audible voltage/beeper tracing (beeper can be switched off).



Fluke 302+ Clamp Meter
AC current to 400 A, 30 mm jaw, 1.8% accuracy, backlit display, CAT III 600 V / CAT IV 300 V.



TL75 Test Leads
Hard Point™, right-angle shrouded banana plugs, CAT II 1000 V, 10 A (with protective cap: CAT IV 600 V / CAT III 1000 V).

Fluke. Keeping your world up and running.™

[Fluke.com](https://www.fluke.com)

©2026 Fluke Corporation.
Specifications subject to change without notice.
260542-en

Modification of this document is not permitted without written permission from Fluke Corporation.



Scan to explore our bundles

FLUKE