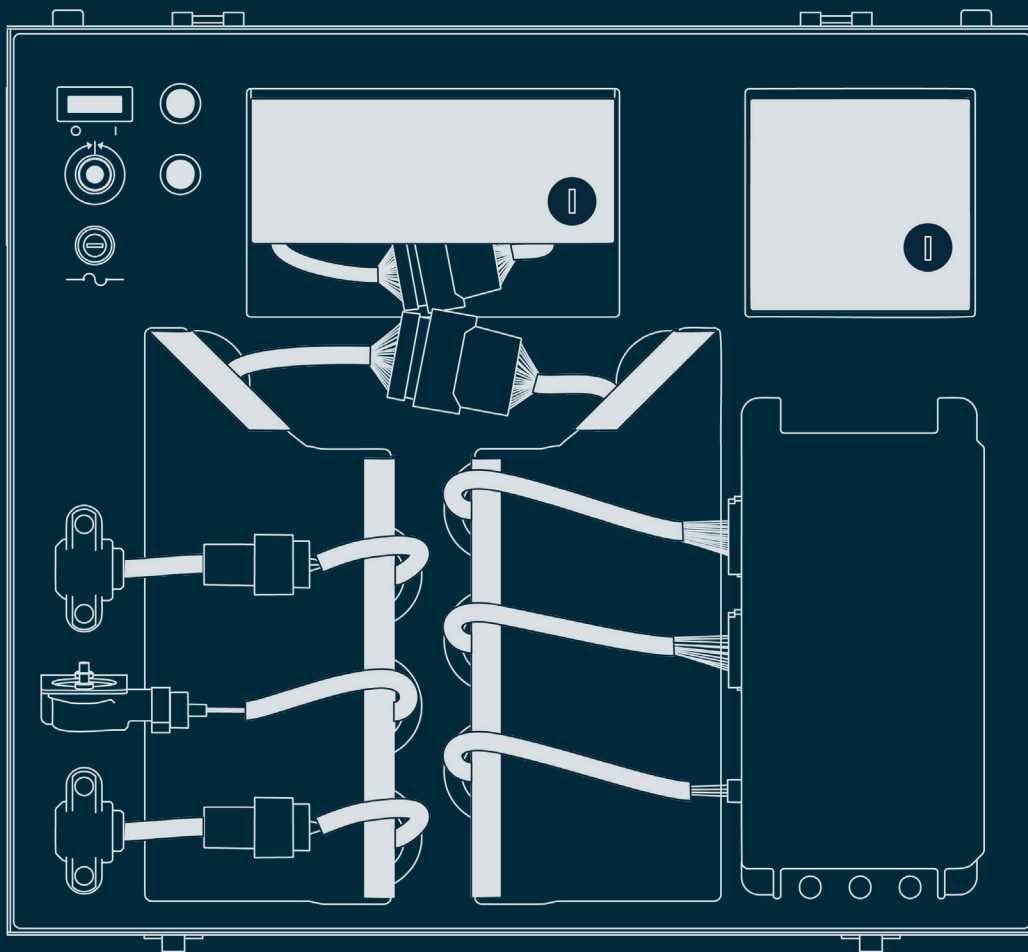




# Connector Trainer - circuit and signal acquisition





The all-new CL-1930\_053283 Connector Trainer - circuit and signal acquisition has been designed to allow students to learn the proper non-destructive procedures using back-probing techniques to access signals and waveforms. The product includes a simulated ECU, multiple sensors and connectors, and a power supply. Relevant student activities are provided to practice proper signal measurements and the viewing of waveform signals using both digital multimeters and oscilloscopes. Improper techniques used in the acquisition of signals and measurements can often result in damage to electrical connectors and terminals, often requiring expensive repairs and parts replacements. This trainer was designed to significantly reduce using improper repair and testing procedures.

### EDUCATIONAL ADVANTAGES

- The tabletop design provides easy access for activities while also providing secure storage when not in use.
- Configured with three different vehicle sensor types allowing voltage and signals access using oscilloscopes and/or digital multimeters. Digital and analog signals/waveforms as well as voltage measurements are possible.
- Includes different types of electrical connectors configured with both normal and limited access designs to create "real-world" repair activities.
- A custom ECU provides activities to access and identify voltages and signals by students.
- Includes nine (9) instructor-led case scenarios for which students must troubleshoot abnormal conditions and identify causes.
- Provided student exercises and experiments to guide students through the learning process.
- Up to 25+ hours of instructional time depending on individual instructor preferences.
- Minimal setup time, under 5 minutes to be ready for use.

### FEATURES

- Self-contained unit. Comes with a storage lid and no removable parts.
- Internal protection with a reset button for short circuits.
- Nine instructor-led case scenarios that require student diagnosis.
- The power supply is fuse protected and includes a "RESET" button to protect all circuits and components from short circuits.
- Robust, student use resistant design
- No moving or removable parts.
- Connectors are field serviceable if replacement is needed. (#CL-1930-PR\_053332)

### CL-1930-PR\_053332 Set of replacement pigtail connectors for CL-1930 content

- 1 Sensor 1, ECU side harness (#70163-04)
- 1 Sensor 1, sensor side harness (#70163-05)
- 1 Sensor 2, ECU side harness (#70163-08)
- 1 Sensor 3, sensor side harness (#70163-09)
- 1 Sensor 3, ECU side harness (#70163-11)
- 1 ECU-C1 harness (#70163-17)
- 1 ECU-C2 harness (#70163-16)
- 1 ECU-C3 harness (#70163-18)
- 1 C4 male harness (#170163-13)
- 1 C4 female harness (#70163-14)
- 1 C5 male (F2 top) harness (#70163-10)
- 1 C5 female harness (#70163-07)

### TECHNICAL INFORMATION

- Dimension: 18 x 17 x 5.5 inch (45.18 x 43.18 x 13.97 cm) / 22 x 21 x 9.5 inch (55.88 x 53.34 x 24.13 cm) with packaging
- Weight: 28 lbs (12.7 kg) / 30 lbs (13.6 kg) with packaging
- Powered by a 120V wall adapter



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