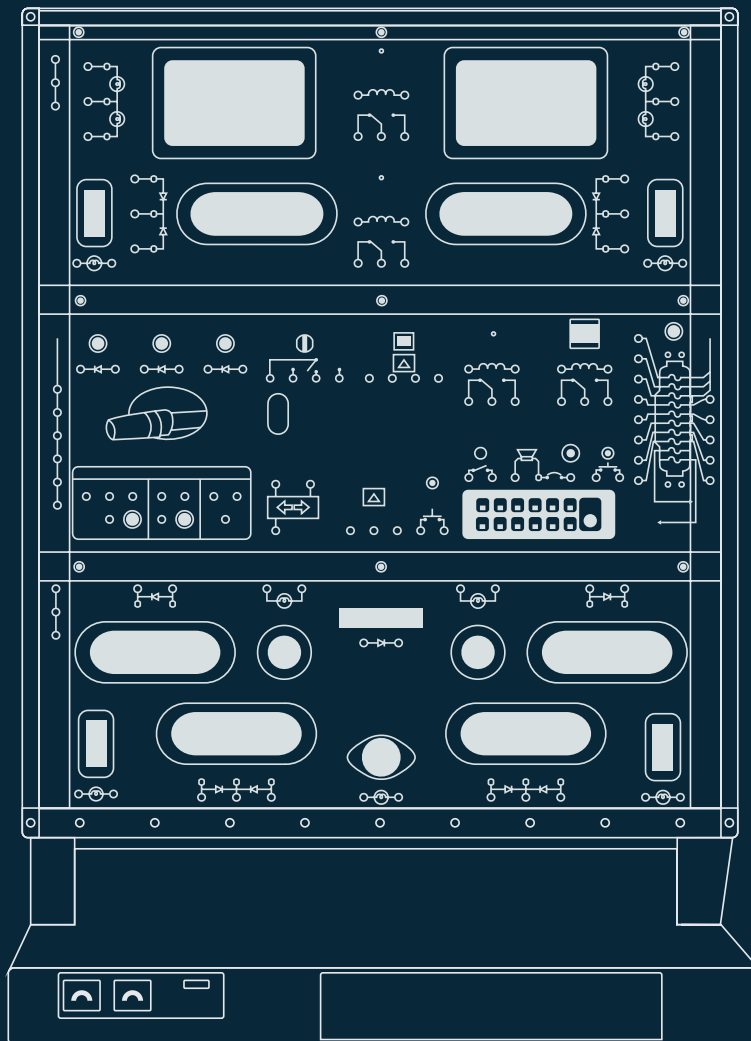




# Single sided automotive lighting system trainer





The ConsuLab CL-1918-4S\_053304 trainer has been developed to teach modern automotive lighting systems through student led hands-on learning exercises where reinforcement of circuit understanding is enhanced. All learning exercises are written at three different student competence levels. (Basic, Some Experience and Advanced) with each using different wiring schematics. This product is also used for the teaching of Ohm's Law, basic and advanced circuits, relay controlled circuits, power side and ground side switched circuits. The trainer includes a fault box where up to twelve real-world circuit faults can be inserted. The faults include open circuits, short circuits, high resistance circuits and component failure that will require use of voltage drop and digital multimeter testing to verify circuit problems. The trainer is configured with 4mm wiring sockets and all circuit wiring is completed using 4mm jumper wires. There are also 2mm sockets for use with testing equipment at key points in the circuits.

### EDUCATIONAL ADVANTAGES

- Students can build a complete lighting system or individual circuits
- Includes Head (incandescent), Park/Tail, Stop, CHMSL, Hazard/Turn (all LED), side marker, license plate and backup (incandescent), horn, ignition switch and fuse box.
- Students learn from "hands-on" assignments and activities written at three different competence levels.
- Can easily be used for instruction of Ohm's and Kirchhoff's Law's.
- Fault box provides "real-world" problems requiring diagnosis and repair procedures.
- Uses industry standard electrical wiring schematics (advanced level)
- Available double-sided trainers maximize student engagement and space utilization.
- Robust design allows students to make mistakes without damage to the trainer.
- Trainer has four ISO 5-pin relays with one being removable for testing and replacement

### FEATURES

- 4mm sockets for wiring circuits.
- 2mm sockets for hookup of testing equipment.
- Standard automotive components are used.
- Upright stand will fit through a standard door.
- 4 swivel casters with 2 locking casters.
- Stand is made of steel with a sturdy power coated finish.
- Jumper wire holders included.
- Lockable storage drawer on each side.
- Built-in internally protected power supply.
- Includes Operation Instructions, Student Assignments and Instructor manuals

### CONFIGURATION AVAILABLE

- **CL-1918-4S\_053304** Single sided trainer.
- **CL-1918-4D\_053305** Double sided trainer.
- **CL-1918-4U\_053306** Upgrade kit, convert a single sided trainer to a double sided.
- **CL-MP-1918\_053333** Combination automotive and multiplexed lighting system trainer.



**COMPONENTS LIST**

- 3 Moduponent™ Panels (CL-1918-01A, CL-1918-02A, CL-1918-03A)
- Set of 83 jumper wires
- 120 VAC to 12 VDC CSA/UL approved 30 A power supply

**CL-1918-01A\_053143  
Front lighting system**

- Incandescent sealed beam headlamps with high/low beams
- LED Park/Turn Signals
- Incandescent Side Marker lights
- 2 ISO 5 pin relays.

**CL-1918-02A\_053310  
Dashboard w/fault simulation**

- Ignition, Hazard, Brake, Backup, Horn switches and Multi-function switch with two 1A resettable circuit breakers.
- Horn.
- Electronic Turn Signal and Hazard flashers.
- 8 – ATC fuses.
- Removable ISO 5-pin relay
- ISO 5-pin relays.
- Dash Indicator lights (LED).
- Fault box w/ 12 faults.

**CL-1918-03A\_053141  
Rear lighting system**

- LED Amber Turn Signal lights.
- LED Center High Mounted Stop Lamp
- Incandescent backup/license plate light
- LED Stop/Park light

**OPTIONS**

- Dust Cover (#24586-1).
- CL-1918-10S-02 Table Stand (#052547).

**TECHNICAL  
INFORMATIONS**

- **Dimensions:** 29 W x 31 L x 73 H inch (73.6 x 78.7 x 185.4 cm) / 48 W x 40 L x 79 H (121.9 x 101.9 x 200.6 cm) with packaging.
- **Weight:** 177 lb (80.4 kg) / 237 lb (107.7 kg) with packaging.
- **Input voltage:** North America: 120VAC 60Hz, others: 220VAC 50Hz.



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