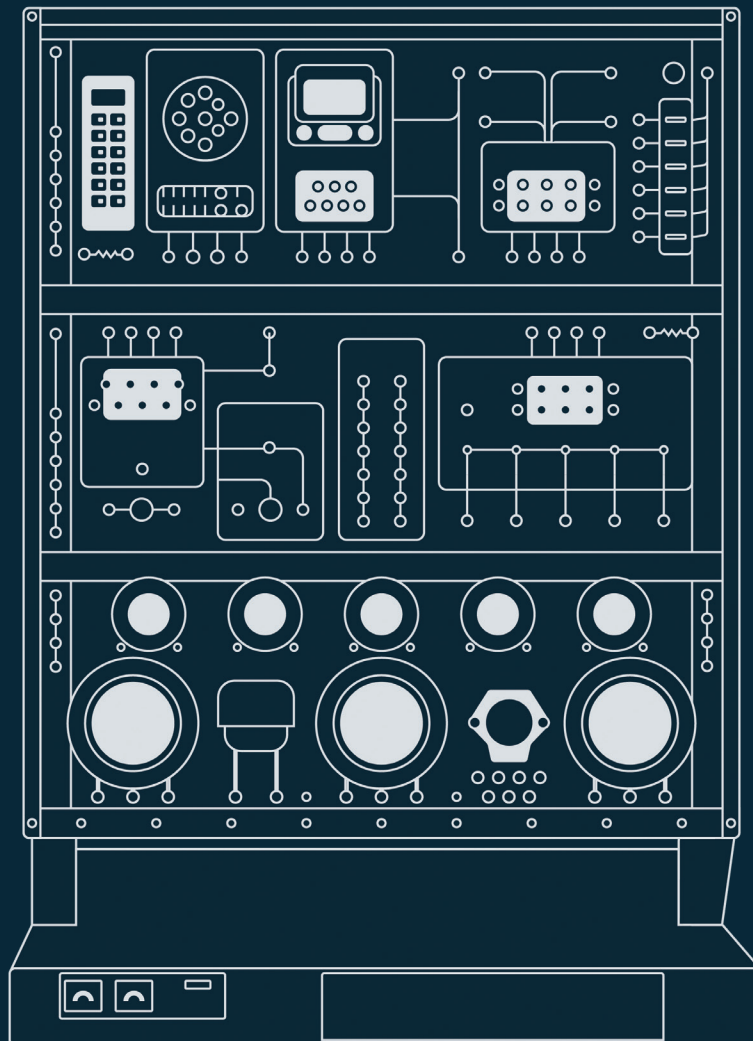




# Single sided CAN bus multiplex system trainer





The ConsuLab MP-1918-1S is a CAN Bus Multiplex trainer that communicates in J-1939 protocol. Digital and analog inputs and outputs can be activated. Analog signals can be displayed using the J-1939 display. The trainer utilizes the “Moduponent®” design feature which allows unlimited expansion capabilities. This unit is equipped with an integrated electronic fault box containing 12 faults.

## EDUCATIONAL ADVANTAGES

- The MP-1918-1 Trainer uses SAE J1929 communications protocol to operate a 4 module CAN Bus network , which includes both a DLC and a Deutsch Connector.
- The trainer demonstrates common multiplexing circuit controls via a high speed CAN Bus network.
- Students connect modules and components using included jumper wires.
- The MP-1918-1 can be used as a CAN Bus demonstration trainer, or, using the included comprehensive student lab manual, as a CAN Bus training course.
- Built in electronic fault box allows fault insertion into circuits for diagnostic training and student comprehension.
- CAN Bus diagnostics can be taught using a DMM and DSO to look at Bus resistance, wake up signal and high speed information packets.
- Diagnostic strategies learned on the MP-1918-1S are easily transferred to a vehicle.

## FEATURES

- Included user manual with theory explanations of CAN Bus, student exercises, schematics, sample scope patterns and check tests.
- Includes four (4) modules that replicate heavy vehicle applications including (instrument cluster, input, engine and output modules). Trainer can also be used to instruct basics of CAN Bus automotive.
- Includes digital and analog inputs/outputs.
- Each module has test points for individual diagnosis and testing.
- J-1939 display on Moduponent panel for observation of real time circuit changes.
- Sturdy powder coated metal stand equipped with lockable storage drawers and a UL approved 120VAC/12VDC power supply (w/analog voltmeter and ammeter).
- Jumper wire storage racks mounted to frame.
- Stand has two fixed and two lockable casters for easy trainer movement.

## CONFIGURATION AVAILABLE

- **MP-1918-1S\_053040** Single sided trainer.
- **MP-1918-1D\_053041** Double sided trainer.
- **MP-1918-1U\_053042** Upgrade kit, convert a single sided trainer to a double sided.
- **CL-MP-1918\_053333** Combination automotive and multiplexed lighting system trainer
- **HV-MP-1918\_053303** Combination heavy truck and multiplexed lighting system trainer





**INCLUDED**

**COMPONENTS**

**Moduponent MP-1918-01 Master panel (top)**

- Electronic fault box with 12 integrated faults and connector (keypad controlled with instructor key)
- Diagnostic test terminals
- Instrument cluster section
- Turn signal switch
- Brake switch
- Hazard switch
- Backup switch
- Headlamp switch
- Power indicator lamp
- Circuit fuses
- Input module section
- Engine brake mode switch
- End of line (termination resistor) #1
- Ground terminals (Black)
- Battery terminals (Red)
- CAN Bus LO terminals (Green)
- CAN Bus HI terminals (Yellow)

**Moduponent MP-1918-02 CAN Bus panel (middle)**

- Engine control module section
- Accelerator pedal switch
- CAN Bus junction block
- Output module
- End of line (termination resistor) #2
- Ground terminals (Black)
- Battery terminals (Red)
- CAN Bus LO terminals (Green)
- CAN Bus HI terminals (Yellow)
- Fault box connector

**Moduponent HV-1918-03 Rear lights panel (bottom)**

- Rear clearance marker lights
- Positive terminals (Red)
- Right/turn/stop LED lights
- 7-way trailer connector & terminals
- Black, red, green & yellow jumper wires for circuit connections
- Backup light
- License plate light
- Left/turn/stop LED lights
- Ground terminals (Black)

**TECHNICAL INFORMATION**

- **Dimension:** 39 W x 47 L x 54 H inch ( 99.1 W x 119.4 L x 137.2 H cm) without packaging
- **Weight:** 361 lbs (163.7 kg) with packaging



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