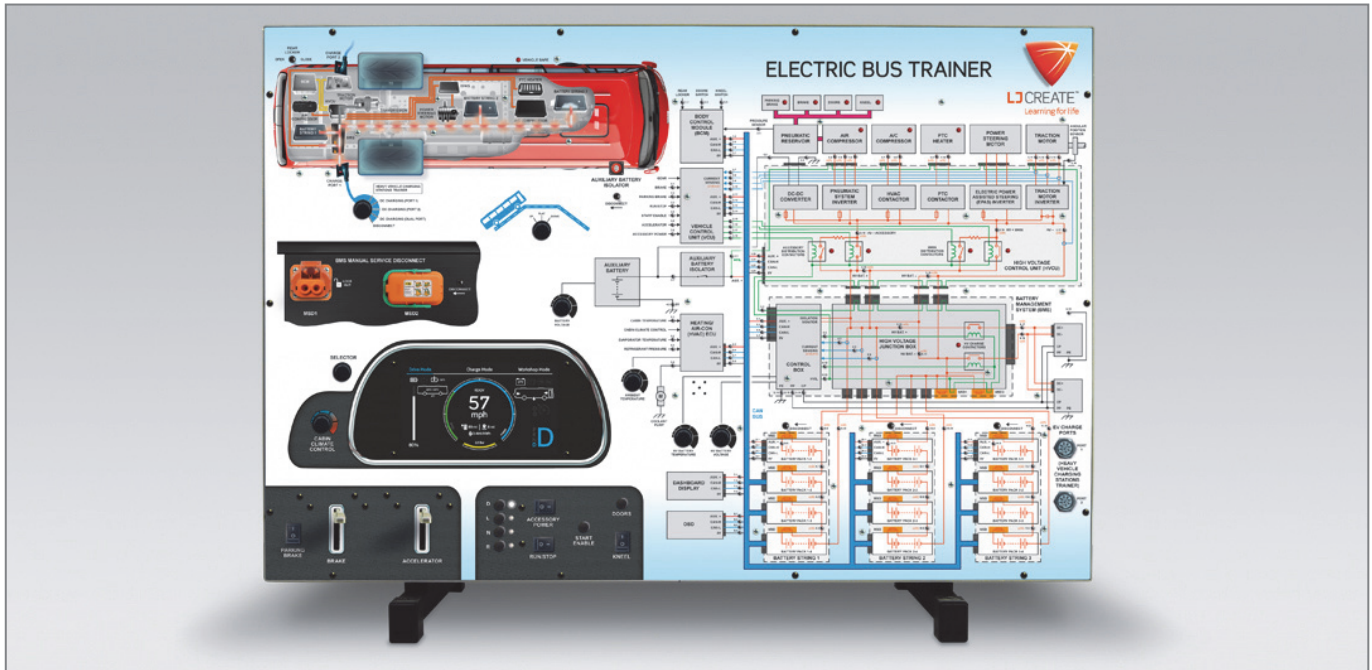


# Product Information Sheet

## Electric Bus Panel Trainer



The Electric Bus Panel Trainer provides students and instructors with the opportunity to demonstrate, investigate and fault-find a simulation of an electric bus electrical system.

The trainer is designed to allow access to a simulation of the mechanical operation as well as provide a mimic of the electrical power flow. The trainer also includes test points at a safe voltage level to allow for investigation of electrical circuits. To facilitate the development of techniques in diagnostics and fault-finding skills, the panel includes a range of fault-insertion options to simulate typical real-world system malfunctions.

This trainer includes access to digital curriculum materials including theory and practical learning tasks. The trainer can also be used in conjunction with our optional cloud-based software, which offers interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

### The Panel Trainer Provides the Following Features:

- Simulation of mechanical and electrical power flow
- Dashboard with speed, RPM, ECO monitor, Access control, and temperature displays
- LCD panel scan tool to display diagnostic trouble codes and real time CPU data
- Air brake and accelerator pedals
- Gear-shift control and park push-button
- Service disconnect plugs
- External, internal, and battery temperature controls
- Terminals to make DC and AC circuit measurements
- Electric motor driving wheels with power flow display
- Port to connect to the LJ Create HGV Charging Panel
- Manual or automatic fault insertion (16 Faults)

### Typical Practical Tasks Include:

- Introduction to the Electric Bus Trainer
- High Voltage System
- Disabling the High Voltage System
- The Low Voltage System
- Electric Bus CAN Bus System
- EV Bus BCM
- Regenerative Braking System
- EV Bus Fluid Power Systems
- DC Charging System
- Cell Balancing
- Electric Bus Charging Station Connection - DC Fast Charging Station Operation
- Electric Bus Charging Station Connection - Charging Station and Vehicle Communications
- Electric Bus Systems Fault Finding 1-10
- Electric Bus Systems Fault Finding 11-20

### Items Included:

- Trainer
- Curriculum in digital format
- Wall mounting brackets
- Bench stands

### Other Items Required:

- Lab scope
- Digital multimeter

### General Information:

Trainer Dimensions: 900 x 170 x 600 mm (W, D, H)  
Packed Volume: Approx. 0.316 m<sup>3</sup>  
Packed Weight: Approx. 26 kg

**Order Code: 745-01**

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