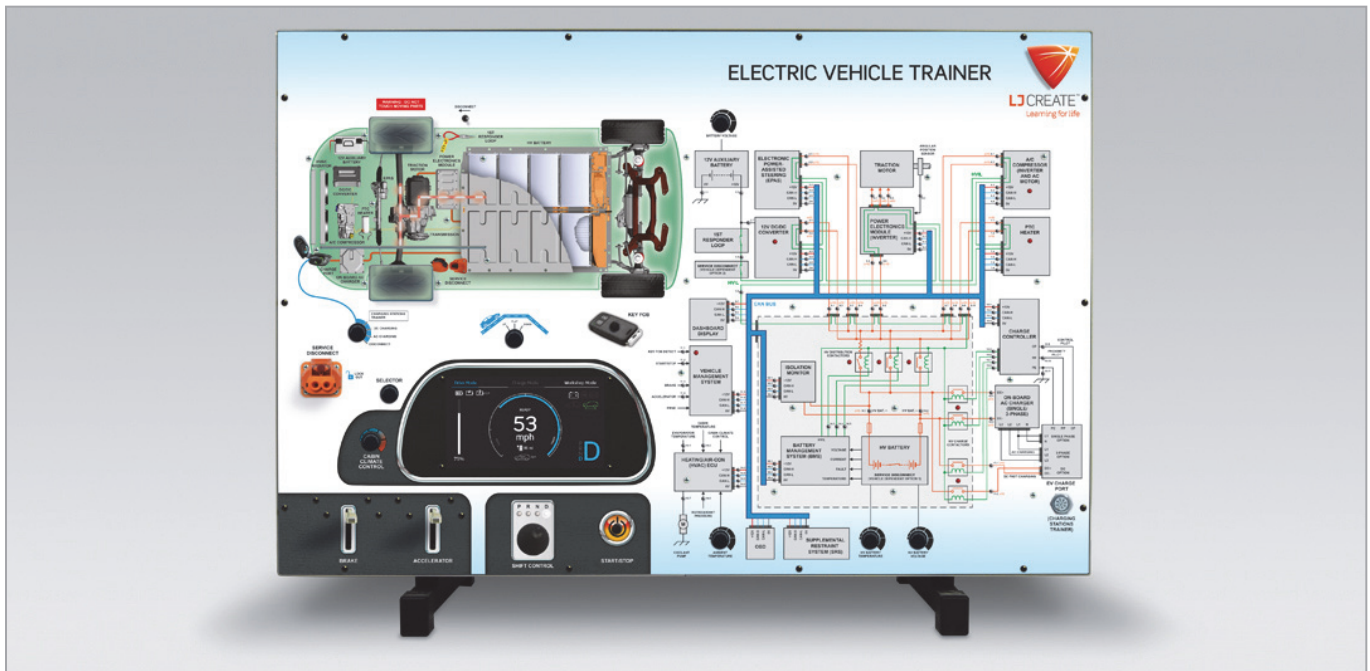


# Product Information Sheet

## Electric Vehicle Systems Panel Trainer



The Electric Vehicle Systems Panel Trainer provides students and instructors with the opportunity to demonstrate, investigate and fault-find a simulation of an electric vehicle 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 online practical electronics tasks as well as 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, and temperature displays
- LCD panel scan tool to display diagnostic trouble codes
- Brake and accelerator pedals
- Gear-shift control and park push-button
- Service disconnect plug
- 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 other LJ Create EV Panel Trainers
- Manual or automatic fault insertion (16 Faults)

### Typical Practical Tasks Include:

- Electric Vehicle Controls
- Electric Vehicle Systems and Components
- Practical EV Systems
- The Low Voltage System
- The High Voltage System
- First Responder Loop and the Service Disconnect
- Disabling the HV System
- Checking the Disabled HV System - Safety First
- Introduction to the CAN Bus
- Electric Vehicle Charging Circuits
- Introduction to Troubleshooting the EV Systems Panel
- Troubleshooting the System Start-up
- Troubleshooting the CAN Bus
- Troubleshooting the HVAC System
- Troubleshooting the Charging Circuits
- Finding Intermittent Faults in the System
- Interconnecting the LJ Create EV Panels

### 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: 740-01**

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