

HEV Technology

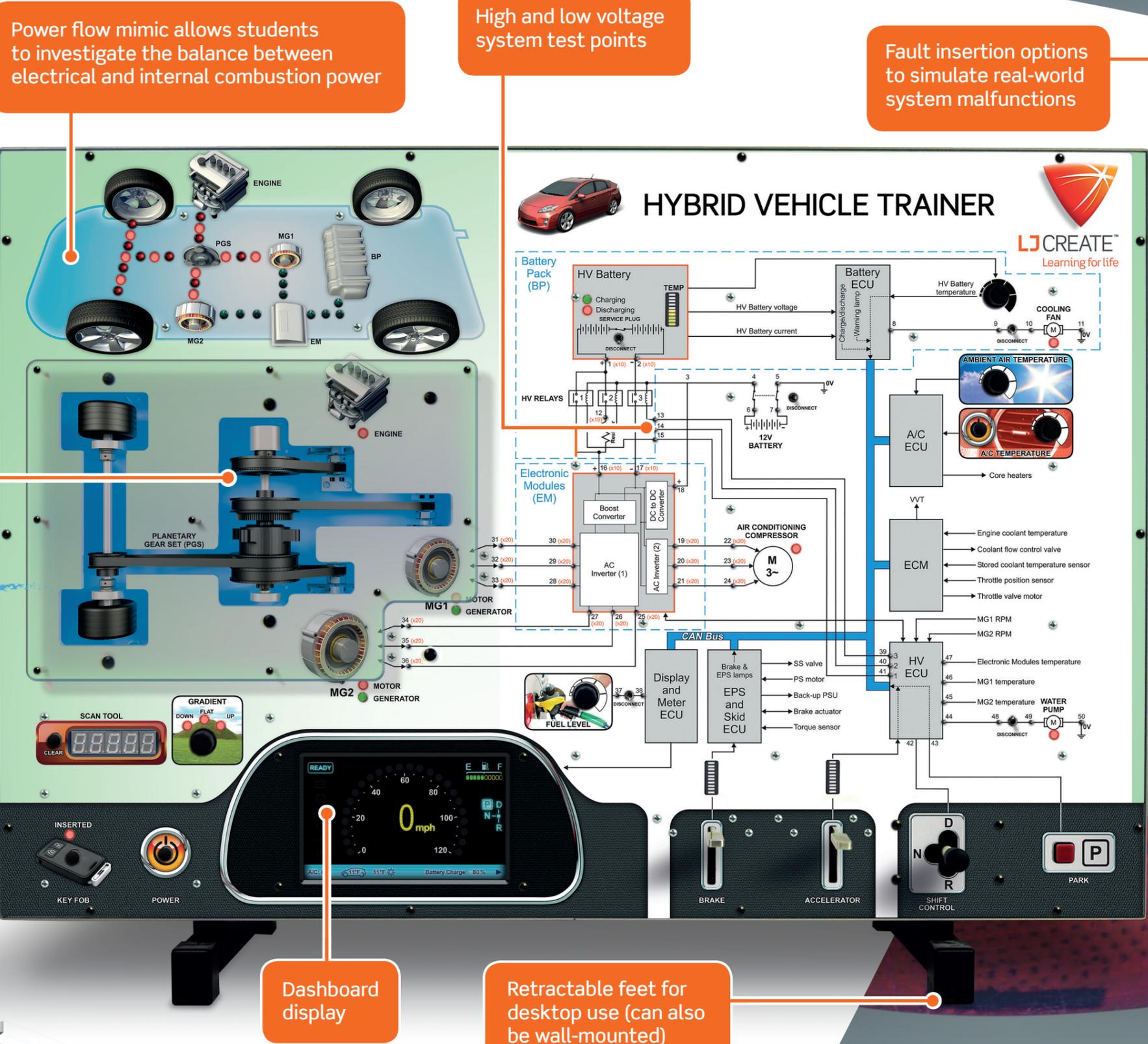
Hybrid Vehicle Systems Panel Trainer (756-01)

Our hybrid vehicle trainer provides students and instructors with the opportunity to demonstrate, investigate, and fault-find a simulation of a hybrid 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 panel 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.

Hybrid Vehicle Simulator



Planetary gear set

High and low voltage system test points

Fault insertion options to simulate real-world system malfunctions

Hybrid Vehicle Simulator

Dashboard display

Retractable feet for desktop use (can also be wall-mounted)

Hybrid Vehicle Curriculum

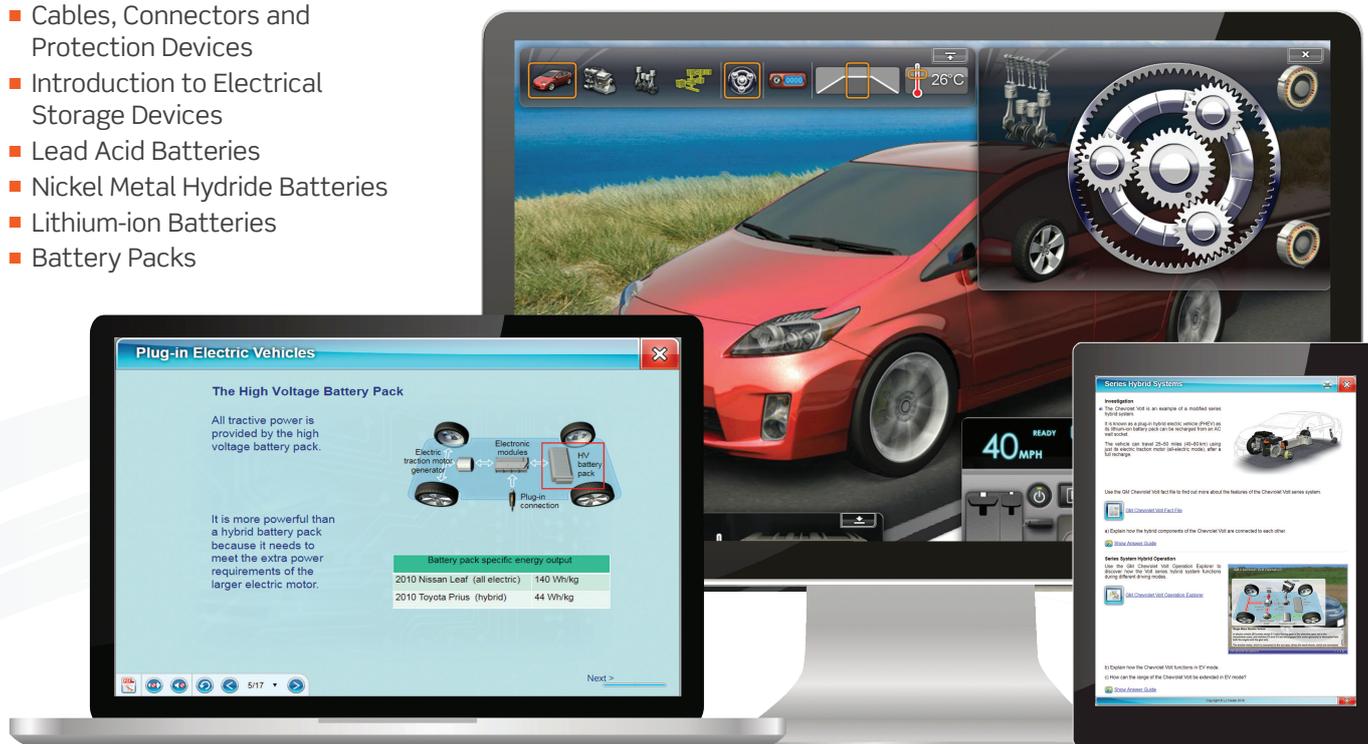
Our emphasis is on delivering training solutions that:

- Match curriculum requirements
- Can be taught within the unit times available
- Can be used by any student

The lessons we've developed to accompany this trainer include the following topics:

HYBRID AND ELECTRIC VEHICLE SYSTEMS

- Introduction to Hybrid and Electric Vehicles
- Fuel and Emissions
- Series Parallel Hybrid Systems and Components
- Practical Series Parallel Hybrid Systems
- Hybrid Vehicle Trainer Controls
- Plug-in Electric Vehicles
- Plug-in Hybrid Vehicles
- The High Voltage System
- The Low Voltage System
- AC Motors and Generators
- Hybrid Engines
- Hybrid Electric Motors
- Electronic Circuits and Modules
- Cables, Connectors and Protection Devices
- Introduction to Electrical Storage Devices
- Lead Acid Batteries
- Nickel Metal Hydride Batteries
- Lithium-ion Batteries
- Battery Packs
- Brake Systems
- Hybrid Safety Issues and Concerns
- Troubleshooting the High Voltage System
- Disabling Hybrid Vehicle Systems
- Disabling the High Voltage System
- Series Hybrid Systems
- Parallel Hybrid Systems
- Gears and Planetary Gear Sets
- Introduction to the Hybrid Vehicle Trainer
- Troubleshooting Introduction
- Tools and Test Equipment
- Rules and Procedures



If you'd like a call or a visit:
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ljcreate.com/HEV

Order As:
756-01 Hybrid Vehicle Systems Panel Trainer

Includes:

- Hybrid vehicle trainer
- Access to 80+ hybrid vehicle lessons
- Hybrid vehicle simulator software
- Digital multimeter