

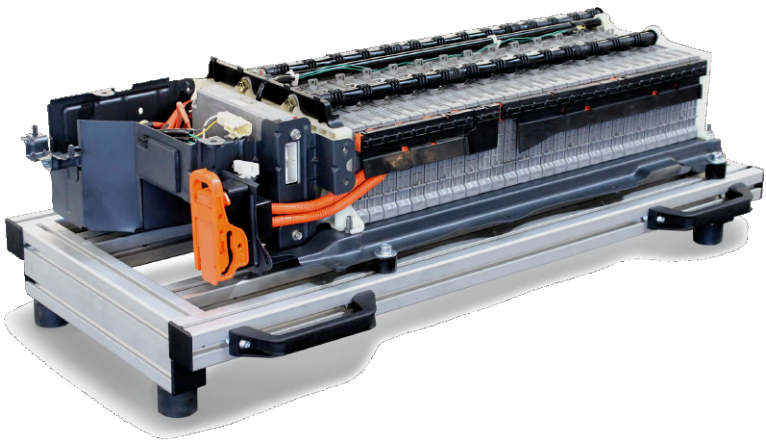


# HIGH VOLTAGE BATTERY DISASSEMBLY AND ASSEMBLY

L3

Product number  
VIVV01-HYBBAT

This automotive training aid is an OEM high voltage battery pack from a Toyota Prius II designed specifically for safe educational use. The trainer includes 28 Ni-MH battery modules, current sensor, system main relays (including a soft launch relay), and battery ECU for realistic monitoring and control simulations. The system is completely de-energized, ensuring no live high-voltage is present, making it safe for student operation. The integrated service plug and visible internal wiring enable learners to study battery management systems in detail without risk.



## Features

- OEM Toyota Prius II Ni-MH high-voltage battery pack.
- Contains 28 modules with total 168 cells.
- Integrated battery ECU and current sensor.
- High-voltage relays including soft start relay.
- Fully accessible wiring layout and busbars.
- Dedicated service plug for safety practice.
- Internal structure visible after cover removal.
- All components mounted in original configuration.

## Product Overview Video

A short video demonstrating the trainer's design, components, and key functions.





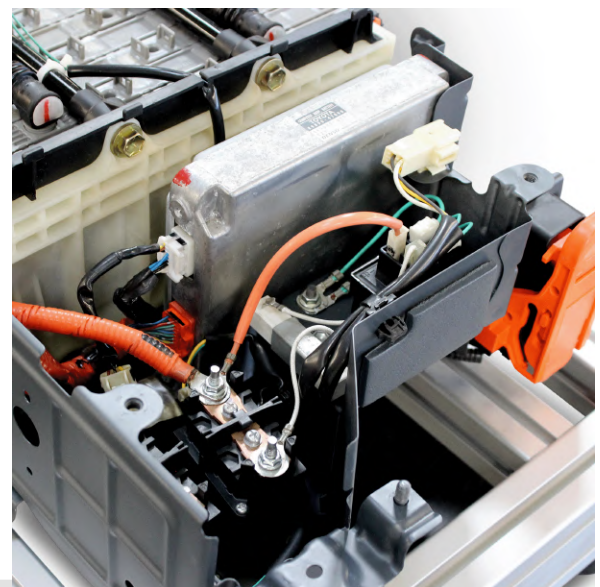
### Value for Students

- Learn step-by-step disassembly and assembly procedures of high voltage automotive batteries.
- Practice safe handling of high-voltage systems, including the use of PPE, insulation tools, and service plug removal.
- Identify and study the layout of battery modules, high-voltage relays, and current sensors.
- Understand how hybrid battery packs are structured and controlled through ECU and relay logic.
- Learn procedures for voltage measurement across individual modules or groups using standard multimeters.
- Gain hands-on experience with internal wiring inspection and connector identification in real automotive battery packs.



### Value for Instructors

- Safe demonstration of hybrid battery systems without any electrical hazard.
- Ideal tool for classroom or workshop-based lessons in automotive education programs.
- Allows structured, supervised disassembly and electrical measurement tasks.
- Reinforces correct battery servicing procedures and safety awareness training.
- Provides real OEM components for realistic automotive training.



### Specifications

- Battery type: Ni-MH (Nickel-metal hydride).
- Modules: 28 battery modules.
- Control unit: Battery ECU with current sensor and SMR (system main relay).
- Safety: Service plug, no active voltage present, safe for hands-on learning.
- Origin: OEM component, Toyota Prius II.
- Weight: 49 kg (108 lb).
- Dimensions: 960 x 455 x 255 mm (37.80 x 17.91 x 10.04 in).
- Product number: VIVV01-HYBBAT

