Table of Contents

Table of Contents 1
Automotive | Hybrid & EV 2
Hybrid and Electric Vehicles Trainer 2
Hybrid and Electric Vehicles Trainer 3
CarTrain 4
CarTrain "Diagnosis and Maintenance of a High Voltage Battery" 4

Automotive | Hybrid & EV

Hybrid and Electric Vehicles Trainer

Hybrid and Electric Vehicles Trainer

Hybrid and electric vehicles constitutes one of the most innovative and trail-blazing sectors of automotive technology. Aspects such as the exhaustion of fossil fuels and global climate change have brought the topic to the forefront of public opinion. Research developments have advanced to the point where the global market breakthrough for electrically powered vehicles is inevitable in the very near future. Current developments are showing that politicians as well as vehicle manufacturers have seen the signs of the times and authorisation of electric vehicles is increasing throughout the globe. At the same time, such developments are opening up the need for mechanics specifically trained in this new and challenging technology. With electric power, electrical engineering and electronics will finally be the overwhelming aspect in vehicles.

Hybrid and Electric Vehicles Trainer

Hybrid and Electric Vehicles Trainer

Among the electrically powered vehicles available, the most popular drive concept is that of hybrid vehicles. Hybrid vehicles, by definition, have two drive options, which can be activated or deactivated depending on the situation or operating status of the vehicle. Usually the vehicle includes both an electric drive system and an internal combustion engine.

CarTrain

CarTrain

CarTrain "Diagnosis and Maintenance of a High Voltage Battery"

CarTrain "Diagnosis and Maintenance of a High Voltage Battery"

Unceasing advances in the development of hybrid and all-electric vehicle technology continue to pose new challenges for the automotive sector. The high-voltage (HV) battery has long been considered to be a “black box”. But now, more and more manufacturers are also venturing into repairing HV batteries.
This involves lots of challenges and requires a special understanding of “overall systems” in order for proper work to be possible. Our training system focuses on the digitally networked CAN-bus battery management system in a traction battery and on the corresponding components.

List of articles:

Pos.	Product name	Bestell-Nr.	Anz.
1	**CarTrain "Diagnosis and Maintenance of a High Voltage Battery"**	CO3221-6S	1

Additionally required:

Pos.	Product name	Bestell-Nr.	Anz.
2	**Two-pole voltage tester, 12-690V/AC/DC CAT III 690V, CAT IV 600V**	LM8302	1
3	**Safety Zone for CarTrain/TruckTrain (Hybrid and Electric Vehicles)**	LM8671	1
4	**Composite Insulating Gloves, Class 0**	LM8588	1
5	**Insulation and Electrical Resistance Meter (Automotive)**	LM8313	1

Additionally recommended:

Pos.	Product name	Bestell-Nr.	Anz.
6	**Standard Group Lock Box for Lockout/Tagout (with 1 Padlock)**	LM8660	1
7	**Fiber Pole for High Voltage Systems**	LM8673	1
8	**Extended safety equipment for diagnostics on HV vehicles**	LM8677	1
9	**ILA: "Hybrid/EV vehicle hazard management for emergency and recovery personnel"**	SO2803-2X	1
10	**Charging Station for PEV and PHEV**	CO3221-6Q	1
11	**Sideways training panel frame extension**	ST8003-1X	1
12	**Type 2 - Charging Cable for HV Vehicles/CarTrain**	LM8668	1
13	**AVL Ditest HV Safety 2000**	LM8258	1

Accessories:

Pos.	Product name	Bestell-Nr.	Anz.
14	**Mobile InsTrain/CarTrain/TruckTrain experiment stand, SybaPro 1070x1350x700mm**	ST7200-4K	1

15	**Monitor holder for flat screen monitor of weight up to 15kg / 33lbs**	ST8010-4T	1
16	**Protection cover for CarTrain/InsTrain experiment trolleys**	ST8010-9X	1