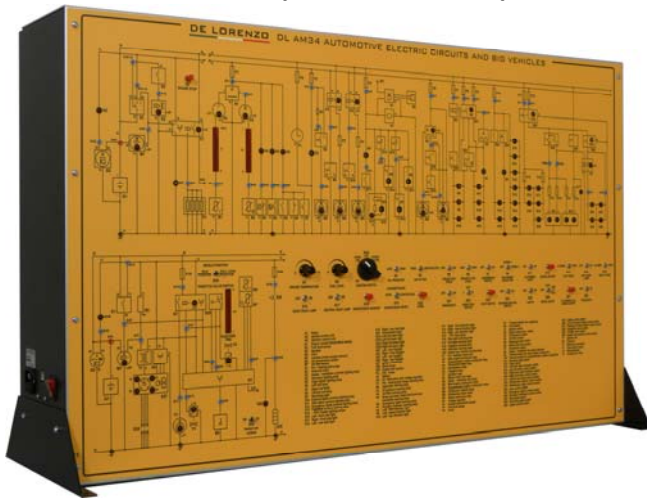




## AUTOMOTIVE ELECTRIC CIRCUITS AND BIG VEHICLES (LORRIES, BUSES)



**DL AM34**

The simulator covers the following topics :

- Electrical components in cars,
- Electrical circuits in cars,
- Electrical circuits faults, short-circuits, open circuits, bad components in cars,
- Electrical components and their symbols in cars,
- Automotive electrical wiring diagrams,
- 12V circuits
- 

- Electrical components in big vehicles,
- Electrical circuits in big vehicles,
- Electrical systems in big vehicles,
- Electrical components and their symbols in big vehicles,
- Lorries electrical wiring diagrams,
- Practical exercise on fault recognition and malfunction repair (troubleshooting).

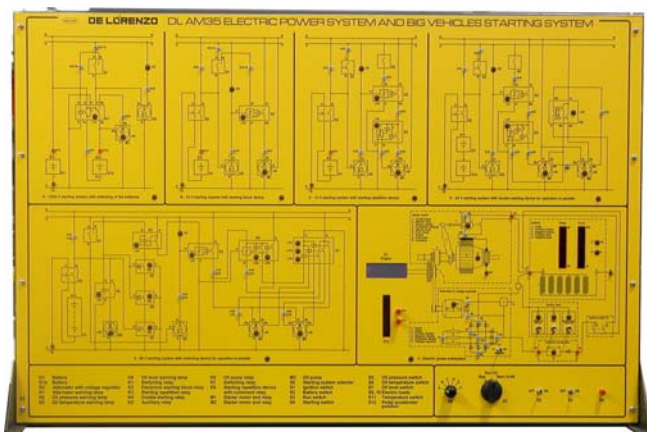
The following sections of the electric plant are reproduced and analyzed:

- electrical supply
- starting
- ignition
- fuel injection
- auxiliary plants (doors opening/closing, defrosting, anti-theft system, radio, etc.)
- indicators
- cooling and aeration
- windshield wipers
- signalling system
- lighting system
- head lights
- anti-fog lights

The scheme utilizes the symbols specified by the DIN regulations.

The panel is complete with CAI software

## ELECTRIC POWER SYSTEM



**DL AM35**

This simulator mainly takes into consideration the 12 V and the 24 V starting systems with switching of the batteries and the starting systems with the device for starting block.

The simulator analyzes also the starting systems with the device for starting repetition, those with the relay for double starting for operation in parallel and those with the switching relay for the operation in parallel.

The simulator covers the following subjects that are relevant to both cars and big vehicles:

- Battery and power cables,
- Converter (alternator),
- Voltage regulator,
- Starting system,
- Fuses and connections (fusible links),
- Multiplier,
- Digital meter operation,
- Ammeter operation,
- Battery voltage in terms of load and temperature
- Battery charging and testing procedure,
- Cranking system,
- Charging procedure control system,
- Methods of recognizing faults,
- Repair practical techniques.

The panel is complete with CAI software.