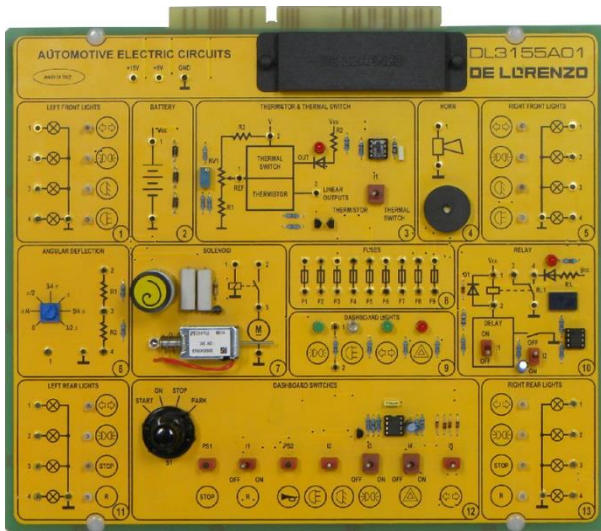




AUTOMOTIVE ELECTRIC COMPONENTS AND CIRCUITS



DL 3155A01

The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

With this board the students can study and analyse the electric components and circuits that are used in modern automobiles.

THEORETICAL TOPICS

- Voltage drop in series connections
- The measurement of the angular displacement by means of a potentiometer
- Lamps
- The light plant of an automobile
- The stop lights (brakes)
- The intermittent lights
- The diodes in the light plants
- The use of the diodes for dividing the circuits
- Operating principles of the relay
- Circuits with relays
- Delay circuits with relays
- The thermistors in the automobile
- Thermal switches
- The acoustic signalling
- The engine starting control

CIRCUIT BLOCKS

- Left front lights
- Battery
- Thermistor and Thermal switch
- Horn
- Right front lights
- Angular deflection
- Solenoid
- Fuses
- Dashboard lights
- Relay
- Left rear light
- Dashboard switches
- Right rear light

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm

**CAI SOFTWARE:**

Each board of the TIME system can be supplied complete with a Student Navigator software that allows students to perform their learning activities through a Personal Computer, without the need for any other documentation.

Ordering code: please add SW after the code of the board (i.e. DL 3155M07SW)

Required:**POWER SUPPLY NOT INCLUDED**

Base frame with power supply (completed with connecting cables):

- **DL 3155AL3** - Base frame with power supply and interface to pc and virtual instrumentation
- **DL 3155AL2** - Base frame with power supply and interface to pc

Basic power supply (connecting cables not included):

- **DL 2555ALG** - DC power supply $\pm 5 \pm 15$ Vdc, 1A
- **TL 3155AL2** - Connecting cables

Choosing this power supply, for the execution of the experiments, it is normally required the use of an oscilloscope and two multimeters.

