

# Product Information Sheet

## Modern Starting and Charging Systems Trainer



Our range of Autotronics boards are designed to provide a practical approach to theoretical learning, as well as developing technical skills for electronic system fault finding.

The resource is contained within an ergonomic plastic base with a hinged cover that also provides a mechanism to tilt the trainer towards the user for ease of use.

The board is focused on the starting and charging systems of a modern vehicle.

Students are set tasks that encourage them to explore CAN Data Bus systems practically and also improve their knowledge of components, circuits, signals and systems.

The trainer includes access to digital curriculum materials including practical learning tasks, as well as theory support resources.

The trainer can also be used in conjunction with our optional cloud-based software, which offers online practical tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

Students will also be directed to work through a number of fault-finding activities (8 in all), encouraging fault-diagnosis skills.

### Practical Topics Covered Include:

- CAN Bus Conventional Starting and Charging Systems
- CAN Advanced Starting and Charging Systems
- Automatic Stop Start Systems
- The CAN Data Bus
- Can Bus measurement
- Fault finding and diagnosing CAN starting and charging faults

### Typical Activities Include:

- Explore CAN Bus Conventional and Advanced Starting and Charging Systems
- Investigate High Speed CAN Data Bus
- Perform CAN Bus Conventional and Advanced Starting and Charging System Measurements
- Perform CAN Bus Consumers Measurements
- Perform Automatic Stop Start System Measurements
- Perform CAN Data Bus Measurements
- Diagnose 8 Different CAN Bus Starting and Charging Faults

### The circuit board provides the following features:

- On-board mimic of a car, with access to the following circuit components:
- 12V battery
- ECU Pin Outs
- Various Starting and Charging Sensors and Actuators
- Ignition Switch
- Brake Pedal Switch
- Gear Lever Switch

## LJ Create –Product Information Sheet (Continued)

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#### Items Included:

- Trainer
- Curriculum in Digital Format

#### Other Items Required:

- Digital multimeter
- LJ Create Automotive Cloud Content (Optional)
- Computer
- Diagnostic Equipment with Oscilloscope functions.

#### General Information:

Trainer Dimensions: 360 x 80 x 250 mm (W, H, D)

Trainer Weight: 1.2 kg

Packed Volume: Approx. 0.01 m<sup>3</sup>

Packed Weight: Approx. 2.8 kg

**Order Code: 720-02**

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