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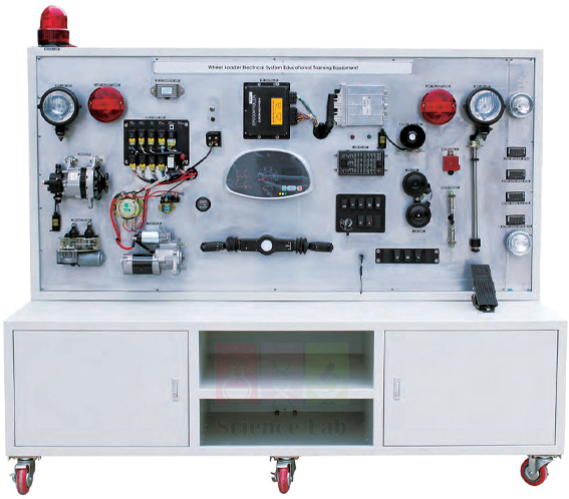
**Product Name :**

Wheel Loaders Electric Circuit Training Simulator

**Product Code :**

SLE/ATE/22



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## Description :

The Wheel Loaders Electric Circuit Training Simulator opens out the electric circuit of a heavy machinery wheel loader on one frame, so trainees can see each part and how it behaves. It runs on a DC 24 V battery and carries an ECU, relays, a starter motor, levers and digital meters for measuring the input and output of every component.

## Wheel loader circuit simulator specifications

| Parameter | Detail |
|---|---|
| Basis | Electric circuit equipment using a heavy machinery wheel loader |
| Power | DC 24 V battery |
| Composition | ECU, battery, operating lever, light system, horn, hydraulic lever, starter motor, battery connector, relay, digital meters |
| Meters | Two ammeters and two voltmeters, plus digital meters |
| Layout | Parts not visible on an actual machine are opened out to show their operating state and location |
| Training content | Measuring the input and output data in each component |
| Weight | Approx. 350 kg |
| Size | Approx. 2,000 × 600 × 1,700 mm |
| Product code | SLE/ATE/22 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Circuit exercises on the wheel loader simulator

Battery and connector baseline. With every switch off, trainees read the 24 V battery on a standard digital multimeter. They read it again with the light system on and once more while the starter motor turns. A large drop measured across the battery connector itself points to a poor contact rather than a weak battery.

Lever inputs and ECU outputs. One trainee moves the operating lever and the hydraulic lever through each position while a partner logs the signal reaching the ECU and the output it sends on. The finished table of input and output values becomes the reference sheet for later fault tracing.

Relay checks. Find the relay in the circuit and follow the wires from it to the loads it feeds. Compare the voltage at the relay input with the voltage at its output, and expla
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