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**Product Name :**

Diesel Engine Fault Diagnosis Training Equipment Auto Fault

**Product Code :**

SLE/ATE/14



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## Description :

The Diesel Engine Fault Diagnosis Training Equipment Auto Fault is a running diesel engine on a wheeled stand, set up for fault finding. Trainees test circuits and sensors at a check terminal box with a diagnostic device, read waveforms at the control box and find faults set through the fault insertion feature and 3-stage PCB board. ScienceLab builds the stand, control panel and fault-insertion system in Ambala; the engine is a production unit.

## Diesel fault diagnosis trainer specifications

| Parameter | Detail |
|---|---|
| Engine | Diesel engine assembly (production unit) |
| Fuel and electrical | Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V car battery, generator |
| Cooling | Radiator, electric fan, overflow tank, relay, antifreeze; radiator-only stand |
| Exhaust | Catalyst converter, silencer |
| Controls | Start (key) switch, control box for waveform measurement, accelerator lever |
| Diagnosis features | Check terminal box for testing circuits and sensors with a diagnostic device; fault insertion; control panel that opens and closes; 3-stage PCB board |
| Frame and protection | Stainless moulded safety guard, laser-cut protection panel, anti-vibration dampers, urethane wheels |
| Storage | One drawer |
| Weight and size | Approx. 430 kg; approx. 1,500 × 1,400 × 1,300 mm |
| Product code | SLE/ATE/14 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Fault-finding tasks on the diesel trainer

Set-fault assessment. The instructor opens the control panel and sets a fault on the 3-stage PCB board. Each trainee records the symptom, writes a test plan and measures the suspect circuit at the check terminal box with an advanced digital multimeter. The trainee then confirms the signal at the control box on an oscilloscope dual trace before naming the fault.

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