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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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