Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

LPI Engine Fault Diagnosis Training Equipment Auto Fault

Product Code :

SLE/ATE/20



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Description :

LPI Engine Fault Diagnosis Training Equipment Auto Fault (Product Code: SLE/ATE/20) is a hybrid powertrain trainer used to teach fault diagnosis on a 1,600cc LPI engine, hybrid motor and automatic transmission in advanced automotive training centres and engineering colleges. A hybrid control unit (HCU) links the ECU, TCM, BMS ECU, MCU and LDC by CANcommunication, and a front control panel carries the check terminal and toggle switches. **Jain Scientific Equipments Pvt Ltd (ScienceLab)** manufactures the training stand and frontcontrol panel as the OEM at its own factory in Ambala, India; the LPI engine, hybrid motor andtransmission assemblies are sourced production units, not made in Ambala.

Specifications

Parameter	Detail
Powertrain	1,600cc LPI engine and hybrid motor; engine and A/T automatic transmission
Engine style	I4 1.6 (1,591cc)
Control network	HCU (hybrid control unit) connected to ECU, TCM, BMS ECU, MCU and LDC by CAN communication
Sensors attached	Slant angle sensor, brake boost pressure sensor
Hybrid functions shown	Hybrid engine start; power support at idle or slow movement; driving force support when accelerating; energy recovery (battery charge) when decelerating, with brake switch
Front control panel	Display panel, ECU circuit, education check terminal, toggle switches; panel displays engine start and engine status
Diagnosis	With diagnosis equipment: sensor check, short circuit, failure diagnosis and output power
Weight	Approx. 1,300 kg
Size	Approx. 4,600 × 1,800 × 1,500 mm
Engine / assembly	Sourced production unit (as listed)
Product code	SLE/ATE/20
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (trainer built in Ambala, Haryana)

Optional accessories, quoted on request:

- Laptop — CPU Intel Core i7; memory 8GB; USB 3.0; HDMI output; 256GB SSD
- Oscilloscope — 4 channels; bandwidth 20MHz (10MHz on ±50mV range); vertical resolution 12 bits; enhanced vertical resolution 16 bits; pulse width, runt pulse, dropout and windowed functions as listed; maximum post-trigger delay 50 s; maximum pre-trigger delay 10x the per-division time base setting
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