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Product Name :

LPI Engine Fault Diagnosis Training Equipment Auto Fault

Product Code :

SLE/ATE/20



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Description :

The LPI Engine Fault Diagnosis Training Equipment Auto Fault combines a 1,600cc LPI engine, a hybrid motor and an automatic transmission on one stand for hybrid fault diagnosis. A hybrid control unit links the ECU, TCM, BMS ECU, MCU and LDC over CAN, and trainees work at a front panel with a display, an education check terminal and toggle switches.

LPI hybrid fault trainer specifications

Parameter	Detail
Powertrain	1,600cc LPI engine (I4 1.6, 1,591cc), hybrid motor and automatic transmission
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; the panel displays engine start and engine status
Diagnosis	With diagnosis equipment: sensor check, short circuit, failure diagnosis and output power
Weight and size	Approx. 1,300 kg; approx. 4,600 × 1,800 × 1,500 mm
Engine, motor and transmission	Sourced production units; the training stand and front control panel are made by ScienceLab in Ambala
Optional items	Laptop, 4-channel oscilloscope and 61 cm (24 inch) LED monitor
Product code	SLE/ATE/20
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Hybrid diagnosis exercises on the LPI trainer

Mode by mode. The instructor runs the trainer through hybrid start, power support at idle, driving force support on acceleration and energy recovery on deceleration with the brake switch. Students note on the display panel when the engine starts and how its status changes, and say which unit on the network commands each step.

Network fault tracing. With diagnosis equipment connected, students read the stored code d and multi l to