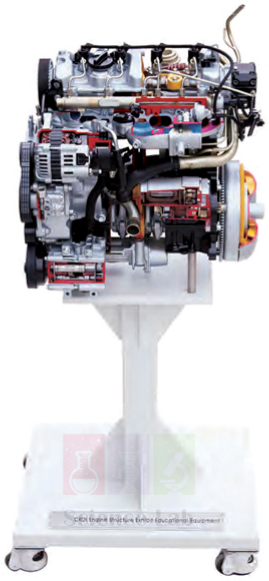
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Product Name :

CRDI Diesel Engine SANTAFE D Engine, Stand

Product Code :

SLE/ATE/15



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Description :

The CRDI Diesel Engine SANTAFE D Engine, Stand carries a 2,000cc CRDIBOSCH D engine, the same unit as fitted to the real vehicle, precisely cut so learnerscan watch pistons, valves and crank move. A 220V motor under an engine speed controller turns it. The fuel, cooling and lubrication systems are painted in separate colours, and the steel frame rolls on 4 braked wheels.

SANTAFE D engine stand specifications

Parameter	Detail
Engine	2,000cc CRDI BOSCH D engine, same as the real-vehicle unit, precisely cut to show internal movement
Engine ancillaries	Starting motor, generator, air conditioner compressor, intake manifold, torque converter
Systems shown	Fuel system, cooling system, lubrication system
Drive	220V motor with engine speed controller
Electrical protection	Safety breaker, emergency switch, safety fuse
Stand	Steel frame with heat treatment painting; 4 wheels with brakes
Finish	Each incised section painted in a different colour
Weight and size	Approx. 250 kg; approx. 650 × 500 × 1,500 mm
Training contents	Attaching and detaching the generator and starting motor; replacing the timing belt and other belts; replacing the oil filter
Product code	SLE/ATE/15
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Timing, belt and systems practicals on the D engine stand

Valve timing study. Set the speed controller to its slowest and follow one cylinder through a full cycle. Students note the piston position when each valve starts to open and when it closes, then draw a valve timing diagram. At higher speed, a xenon stroboscope seems to freeze the crank pulley and valve train so the same events can be checked.

Timing belt replacement. With the drive isolated at the safety breaker, trainees align the crankshaft and camshaft marks and change the belt. They set the tension, turn the engine by hand through two full turns and confirm that the marks line up again befo

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