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Product Name :

CRDI Diesel Engine Power Train System
F/R Type

Product Code :

SLE/ATE/17



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Description :

The CRDI Diesel Engine Power Train System F/R Type is a sectioned vehiclechassis that shows power flowing from a diesel engine through an F/R type manual transmission, driveshaft and rear axle. Steering, brakes, shock absorbers, lightingand a battery sit on the same frame. An AC 220V motor moves the power train as inan actual car. Its diesel engine and manual transmission are production units; thestand is built in Ambala.

Manual diesel power train trainer specifications

Parameter	Detail
Type	Operating F/R type manual transmission CRDI and power train system structure of a diesel engine vehicle
Power train	Diesel engine assembly, manual transmission assembly, change lever, driveshaft, rear axle
Engine and transmission	Sourced production units (as listed)
Chassis systems	Brake system, steering system, shock absorber
Other equipment	1 set of lighting, fuel tank, battery, intake/exhaust system
Drive for demonstration	AC 220V motor operation
Finish	Precisely cut to show internal structure; incised sections painted in different colours
Weight and size	Approx. 450 kg; approx. 3,000 × 2,000 × 1,300 mm
Training contents	Brake lining and pad adjustment and replacement; shock absorber and spring replacement; tyre replacement; fuel pump attaching, detaching and inspection; oil filter replacement; belt replacement and tension control
Product code	SLE/ATE/17
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Manual power train and chassis service tasks

Gear-by-gear power flow. With the drive stopped, select a gear on the change lever, then run the motor and watch how fast the driveshaft turns. Repeat for each gear and for reverse. Students then find the matching gear pairs inside a five-speed manual gearbox cutaway.

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