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Product Name :

CRDI Diesel Engine Power Train System
Automatic Transmission

Product Code :

SLE/ATE/18



Science Lab
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Description :

The CRDI Diesel Engine Power Train System Automatic Transmission is a full-size sectioned diesel chassis showing how an F/R type automatic transmission fits into a vehicle power train. A 2,900cc class diesel F/R engine assembly is coupled to the automatic transmission, driveshaft and rear axle, with steering and brakes alongside. An AC 220V motor and controller move the driveline. The engine and transmission are production units on a stand built in Ambala.

Automatic diesel power train trainer specifications

Parameter	Detail
Type	F/R type automatic transmission and power train system structure of a diesel engine vehicle
Engine	2,900cc class diesel F/R engine assembly (production unit)
Transmission and driveline	Automatic transmission assembly (production unit), change lever, driveshaft, rear axle
Chassis systems	Brake system, steering system
Other equipment	1 set of lighting, fuel tank, battery, intake/exhaust system
Drive and control	AC 220V motor operation, controller, safety breaker
Finish	Precise cutting 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	Tyre replacement; brake lining and pad adjustment and replacement; shock absorber and spring replacement; fuel pump attachment, detachment and inspection; oil filter replacement; belt replacement and tension control
Product code	SLE/ATE/18
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Driveline and service practicals on the automatic chassis

Lever position and power flow. With the motor driving the chassis through the controller, the instructor moves the change lever through its positions while students watch the driveshaft and axle. They record where drive stops, where it reverses and where it runs forward, then open a cut model of an automatic transmission to see which clutches and bands each position applies.

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