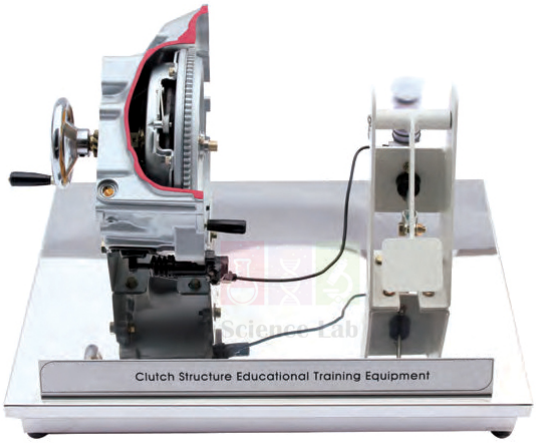
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Product Name :

Clutch Structure Trainer Hydraulic Manual

Product Code :

SLE/ATE/07



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Description :

The Clutch Structure Trainer Hydraulic Manual is a hand-operated unit that lays out the hydraulic clutch of a manual-transmission vehicle from pedal to flywheel. Itcarries the clutch pedal, clutch master cylinder, operating cylinder, clutch pressureboard and fly wheel, each cut open and painted in its own colour. Students work thepedal themselves and watch the clutch release in real movement.

Hydraulic manual clutch trainer specifications

Parameter	Detail
Type	Education unit of hydraulic clutch structure in manual transmission
Composition	Fly wheel, clutch pressure board, clutch pedal, operating cylinder, clutch master cylinder
Operation	Real movement operated directly by hand
Sectioning	Each incised section painted in a different colour
Weight	Approx. 25 kg
Size	Approx. 600 × 400 × 400 mm
Product code	SLE/ATE/07
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Clutch release practicals on the hydraulic manual trainer

Pedal-to-flywheel trace. Press the pedal a little at a time and hold it at each stop. At every stop, students name the part that is moving: master cylinder piston, then the operating cylinder that the fluid pressure reaches, then the release side of the clutch pressure board. Finish by marking where the board lifts away from the fly wheel face.

Pressure transfer first. Open the lesson on a Pascal's principle demonstrator: push its piston and water jets out of every hole in the bulb, showing that pressure in a confined liquid passes equally in all directions. Then return to the trainer and trace the same transfer from the clutch master cylinder, as the input, to the operating cylinder, as the output.

Clutch and brake hydraulics compared. Set the trainer beside a working model of a hydraulic braking system. Both start with a master cylinder at the pedal. Groups note the key difference: in the clutch, springs do the clamping and fluid pressure releases it, while in the brake the fluid pressure does the clamping.

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