

Alternative Energy (LED Lamps Flashing)



Order No. 519201103

Description:

This is a cut-away model of automobile chassis called "Hybrid System Car". The model is sectioned to show its component parts and operation mechanism. Students can easily understand and observe automotive mechanism, such as engine generator, motor, reduction gear and drive shaft. 2 different types of power source, gasoline engine and 3-phase AC electric motor, are operable and the operation is displayed on the rear panel. Various operation principles like starting, normal running, high load, reducing speed and reverse are also explained on the rear panel. HV Battery Assembly is installed on the back of an engine. The model is designed to operate by electric motor. Students can perform and observe the operation of engine and/or motor by on-off switch on the front side. The wiring including LED Lamps clarifies an electric flow.

Specifications:

Type of Engine:	1NZ-FXE
Number of Cylinders	In-Line type 4 Cylinders
Valve Type	DOHC
Bore x Stroke	75.0 x 84.7 mm
Displacement	1696 cc
Compression Ratio	13.5
Fuel Supply System	EFI
Transmission	Electronically Controlled Continuously Variable Transmission (ECVT)
Driving Method	FF
Suspension (front)	Independent McPherson Strut with Stabilizer Bar
Brake (front)	Power-assisted Ventilated Front Disc/ Rear Drum with ABS and integrated regenerative braking

Supply Voltage:

230V (115V on demand!)

Dimensions:

Length 125 cm x Width 180 cm x Height 110 cm
Weight: 400kg

Changes reserved!