

New Meccano Models

Electric Truck and Swing Bridge

THE attractive electric truck shown in Figs. 1 and 2 is based on the small vehicles used for transporting goods and

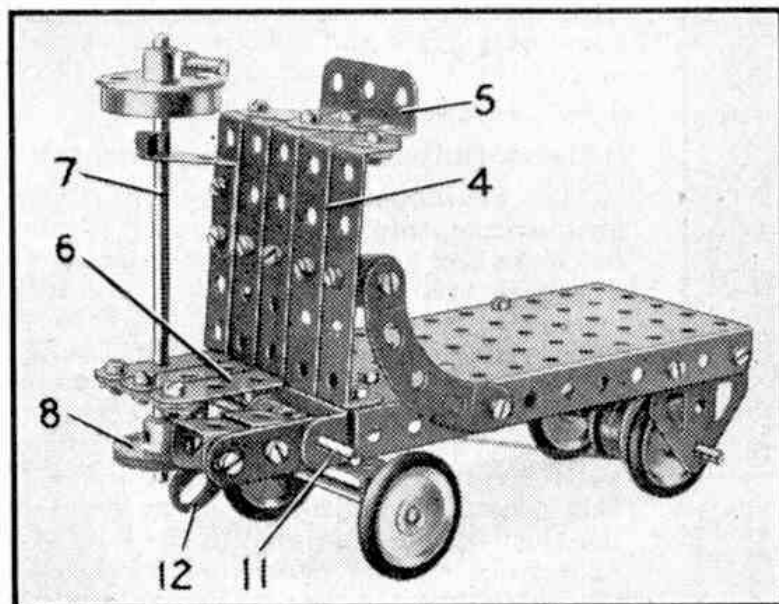


Fig. 1. A neat electric truck that makes a good subject for a small Outfit.

parcels in factories, warehouses, railway stations, etc. The model is fitted with a simple steering mechanism, and with a pedal-operated brake acting on a drum fitted to the rear axle.

A $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate is used for the chassis and load platform of the model, and the rear wheels are fixed on a $3\frac{1}{2}$ " Rod mounted in Flat Trunnions bolted to the Flanged Plate. The Rod carries between the Flat Trunnions a drum 1 formed by two $\frac{3}{4}$ " Flanged Wheels. The front wheels are fixed on a $2\frac{1}{2}$ " Rod carried in a $1\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip 2. A $\frac{1}{2}$ " Bolt is passed through the centre hole of the Double Angle Strip, and is fixed by two nuts in a Double Bent Strip 3. A $\frac{1}{2}$ " loose Pulley is used to space the axle unit from the Double Bent Strip, and the assembly is bolted to the $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate.

A dividing panel 4 is made from five $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strips bolted to the Flanged Plate. A small radius Curved Strip is used to connect the outer Double Angle Strips, and a Trunnion 5 is bolted to the Curved Strip and to the lug of the centre Double Angle Strip. Three 2" Strips 6 form a platform for the driver. Steering is controlled by a $4\frac{1}{2}$ " Rod 7,

mounted in one of the Strips 6 and in a 1×1 " Angle Bracket fixed to the panel 4. The Rod is held in position by a Spring Clip and a Collar, and it carries at its lower end a 1" Pulley 8. A length of Cord is tied to the Double Angle Strip 2 at 9, passed round the Pulley 8, and through a Stepped Bent Strip 10. The Cord is then tied again to the Double Angle Strip 2 at point 9.

The brake pedal is made from a Crank fitted with two Double Brackets. The Crank is fixed on a $3\frac{1}{2}$ " Rod 11, which is carried in a $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip bolted to the front of the Flanged Plate. Rod 11 is fitted with a second Crank 12, and one end of a length of Cord 13 is tied to the Crank. The Cord is passed through an Angle Bracket 14, led twice round the drum 1 and finally is tied to the Double Bent Strip 3.

Parts required to build model Electric Truck:

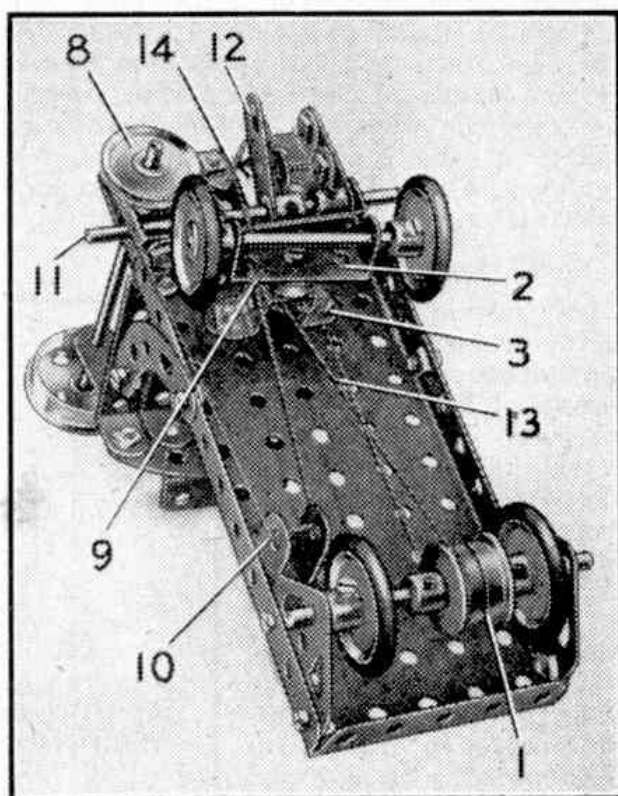


Fig. 2. An underneath view of the truck showing the arrangement of the steering and brake cords.