

New Meccano Models

An Early Type Motor Car—Rowing Boat

EARLY types of machines and other mechanical devices provide splendid subjects for Meccano model-builders, and among the most interesting are the crude contraptions that formed the forerunners of the modern motor car. We have therefore chosen

back by $\frac{1}{2}$ " \times $\frac{1}{2}$ " Angle Brackets. They are also bolted to two $3\frac{1}{2}$ " Strips at their rear ends. The backs of the seats are formed from $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " and a $5\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate attached to the $3\frac{1}{2}$ " Strips and fitted with $1\frac{1}{2}$ " Strips and 1" Corner Brackets.

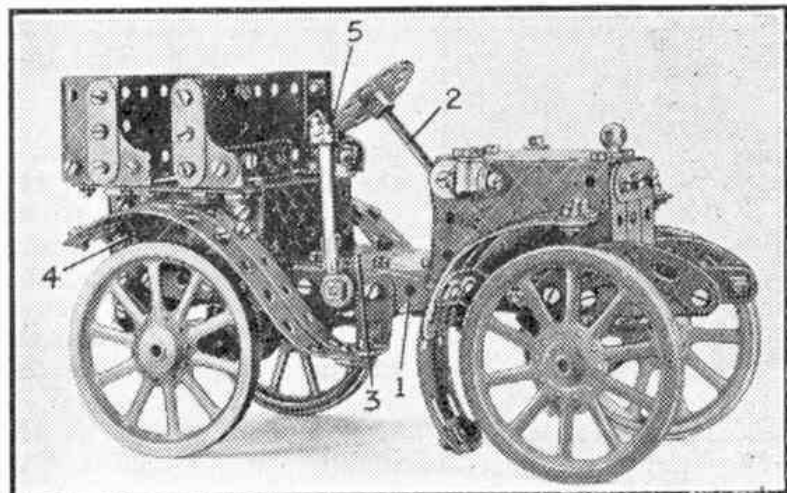


Fig. 1. An attractive model of an early motor car

one of these early vehicles for the subject of a "New Model," and it is shown reproduced in Meccano in Figs. 1 and 2.

Construction of the model is commenced with the forward end of the chassis. For this $7\frac{1}{2}$ " Strips 1, Fig. 1, are spaced apart at their forward ends by a $1\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip and attached by means of $\frac{1}{2}$ " \times $\frac{1}{2}$ " Angle Brackets to a $1\frac{1}{2}$ " Strip, to which three 2" Strips are bolted to form the radiator. Two $2\frac{1}{2}$ " Cranked Curved Strips and two $2\frac{1}{2}$ " Strips are bolted to Strips 1 at each side to form dummy springs for the front axle unit. A $2\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flexible Plate is also bolted to each side, and this is fitted with a $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate to form the top of the bonnet.

A $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip is fixed under the bonnet and is attached to a $1\frac{1}{2}$ " Angle Girder, the right-hand slotted hole of which provides a bearing for the steering column 2, a 4" Rod carrying a Bush Wheel at its upper end. The lower end of the steering column is journaled in a Handrail Support bolted to the side of the chassis, and it carries a Collar to which is bolted a Hinge. The Hinge is also attached to an Obtuse Angle Bracket bolted to a $2\frac{1}{2}$ " Strip that forms the track rod. The latter is pivotally attached at each end to Flat Brackets, which are secured to Angle Brackets and lock-nutted to a further $2\frac{1}{2}$ " Strip bolted to the $1\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip at the front of the chassis. Pivot Bolts inserted in these Angle Brackets carry Wheels forming the road wheels.

A $3\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flanged Plate 3 is attached by $\frac{1}{2}$ " \times $\frac{1}{2}$ " Angle Brackets to the rear end of the Strips 1. The space between the front end of this Plate and a $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate forming the back of the bonnet is filled in by another $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate, which is held in place by $\frac{1}{2}$ " \times $\frac{1}{2}$ " Angle Brackets.

The seats are now constructed and attached to the model as follows. A $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate 4, fitted at its front end with a 1" Corner Bracket, is attached at each side to the rear end of the Strip 1 and, at its front end, to a $2\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flexible Plate forming the front seat. The latter is widened at each side by 3" Strips, which are also attached to the Plates at each side and to a $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate at the

The rear axle is a $3\frac{1}{2}$ " Rod journaled in $2\frac{1}{2}$ " Cranked Curved Strips which are fitted to the chassis by 1" Corner Brackets. The Rod carries two Wheels, and also a 1" Pulley that is driven through a $2\frac{1}{2}$ " Driving Band from the Pulley of a Magic Motor bolted underneath the chassis in the position shown in Fig. 2. A brake is provided by a lever 5 Fig. 1, consisting of a 2" Rod inserted in a Rod and Strip Connector fixed on one end of a 3" Screwed Rod mounted in the Strips 1. Two Flat Brackets are secured on this Rod underneath the chassis, and are fitted with short lengths of Cord that are passed round $\frac{1}{2}$ " fixed Pulleys 6 on the axle. The Cords are fastened at their other ends to the sideplate of the Motor.

The model is completed by the addition of mudguards and headlamps, which are constructed as shown in our illustrations.

Parts required to build model Motor Car: 2 of No. 1b; 4 of No. 2; 2 of No. 3; 2 of No. 4; 4 of No. 5; 3 of No. 6; 6 of No. 8a; 1 of No. 9f; 12 of No. 10; 26 of No. 12; 2 of No. 12a; 4 of No. 12b; 1 of No. 12c; 1 of No. 15b; 1 of No. 16; 1 of No. 17; 4 of No. 19a; 1 of No. 22; 2 of No. 23a; 1 of No. 24; 140 of No. 37a; 130 of No. 37b; 28 of No. 38; 1 of No. 40; 1 of No. 48; 3 of No. 48a; 1 of No. 53; 3 of No. 59; 2 of No. 64; 1 of No. 80c; 4 of No. 90a; 3 of No. 111c; 1 of No. 114; 10 of No. 133a; 2 of No. 136; 2 of No. 147b; 1 of No. 186; 8 of No. 188; 1 of No. 189; 3 of No. 190; 1 of No. 212; 8 of No. 215; 1 Magic Motor.

Our second model this month is an amusing Meccano rowing boat, in which the oarsman actually carries out the movements of rowing. This is shown in Fig. 3.

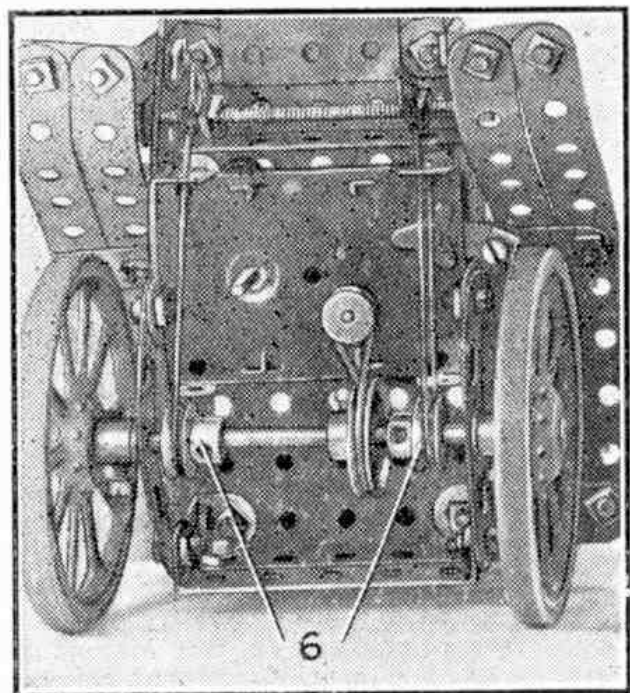


Fig. 2. Underneath view of motor car model.