

New Meccano Models

Simple Motor Lorry—Galleon

THE simple motor lorry shown in Fig. 1 is built from the contents of Outfit No. 2 and could be fitted with a *Magic* Motor if one is available. The constructional details are as follows. A $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate 1 is extended at the rear by two $5\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plates overlapping it seven holes, and this forms the chassis of the lorry. The cab is built from four $2\frac{1}{2}''$ Strips bolted to the Flanged Plate, the front pair of Strips being connected by a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 2 to which is bolted a $2\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plate that forms the roof. A $2\frac{1}{2}'' \times 2\frac{1}{2}''$ Plate 3 attached to the roof and to the $2\frac{1}{2}''$ Strips by Angle Brackets closes in the back of the cab. The front of the vehicle is a $2\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plate bolted to the $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate also and to a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 4 that connects the $2\frac{1}{2}''$ Strips. A Flat Trunnion is fixed to the $2\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plate to represent the radiator. A Bush Wheel held on a $\frac{3}{8}''$ Bolt 5 forms the driving wheel.

Two $5\frac{1}{2}''$ Strips bolted at the sides to the $2\frac{1}{2}''$ Strips and extended at the rear by two further $5\frac{1}{2}''$ Strips overlapped seven holes, are attached to the $5\frac{1}{2}'' \times 1\frac{1}{2}''$ Plates by Angle Brackets to form the sides of the lorry.

Bearings for the wheels are provided by two Trunnions at the rear end and two Fishplates, one of which is seen at 6, at the front. A $2\frac{1}{2}'' \times 2\frac{1}{2}''$ U-Section Curved Plate 7 bolted underneath the Flanged Plate represents the petrol tank.

Parts required to build model Motor Lorry: 4 of No. 2; 6 of No. 5; 3 of No. 10; 8 of No. 12; 2 of No. 16; 4 of No. 22; 1 of No. 24; 4 of No. 35; 41 of No. 37a; 38 of No. 37b; 4 of No. 38; 2 of No. 48a; 1 of No. 52; 2 of No. 90a; 3 of No. 111c; 2 of No. 126; 1 of No. 126a; 4 of No. 155; 2 of No. 188; 2 of No. 189; 1 of No. 190; 1 of No. 199.

Construction of the model galleon shown in Figs. 2 and 3 is commenced with the building of the poop. A $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate is extended down at one end by two $3\frac{1}{2}''$ Strips, and at the other by two $5\frac{1}{2}''$

Strips. These are bolted to two $12\frac{1}{2}''$ Angle Girders 1, and the spaces between the Strips and the Angle Girders are braced by two $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strips, one of which is seen at 2. Two $5\frac{1}{2}''$ Strips are bolted along the Flanged Plate, and the sides are filled in by $4\frac{1}{2}'' \times 2\frac{1}{2}''$ Flexible Plates. A $2\frac{1}{2}'' \times 2\frac{1}{2}''$ Flexible Plate is used to fill in the fore and aft walls of the poop, and another similar part forms the floor.

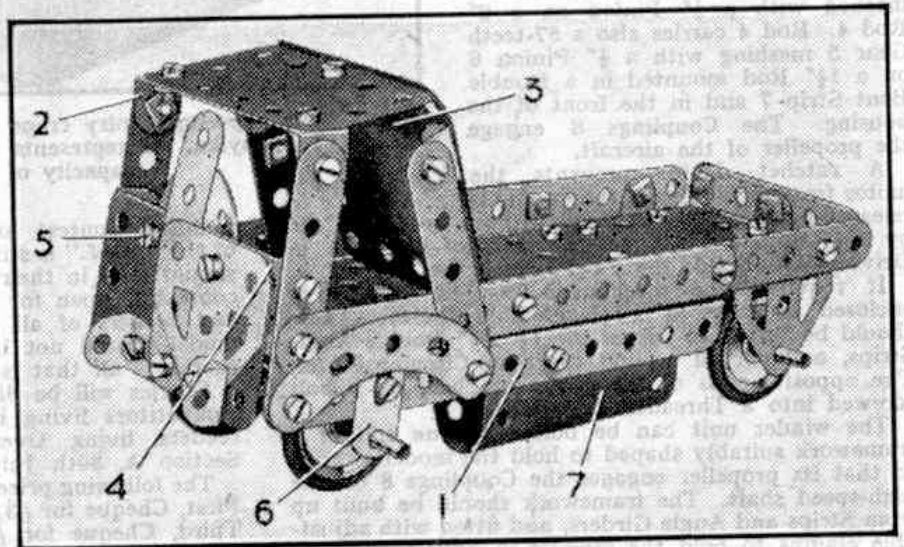


Fig. 1. A simple model motor lorry that can be built from Outfit No. 2.

A $1\frac{1}{2}''$ Strip bolted to the Angle Girder 1 on each side has two $12\frac{1}{2}''$ Strips and one $10\frac{1}{2}''$ compound strip 8 bolted to them.

The remainder of the underpart of the poop is filled in by a $2\frac{1}{2}'' \times 1\frac{1}{2}''$ Flanged Plate and two $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strips 4. The first of the two $12\frac{1}{2}''$ Strips is attached to a Double Angle Bracket 5, which is bolted to the $12\frac{1}{2}''$ Angle Girders 1. It is then curved and bolted to a $1\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 6 that forms part of the forecastle.

The compound strip 8 consists of two $5\frac{1}{2}''$ Strips and is extended by a Semi-Circular Plate and bolted to a Double Angle Strip 7. The second $12\frac{1}{2}''$ Strip is attached in the same way as the first, but is held in place at one end by the Semi-Circular Plate.

The forecastle is next built up and is formed by attaching a $2\frac{1}{2}''$ Strip to the end holes of each Angle Girder 1 and bolting a Flanged Sector Plate to it. A Curved Strip is bolted to the $1\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 6 and is attached to the Flanged