

# New Meccano Model

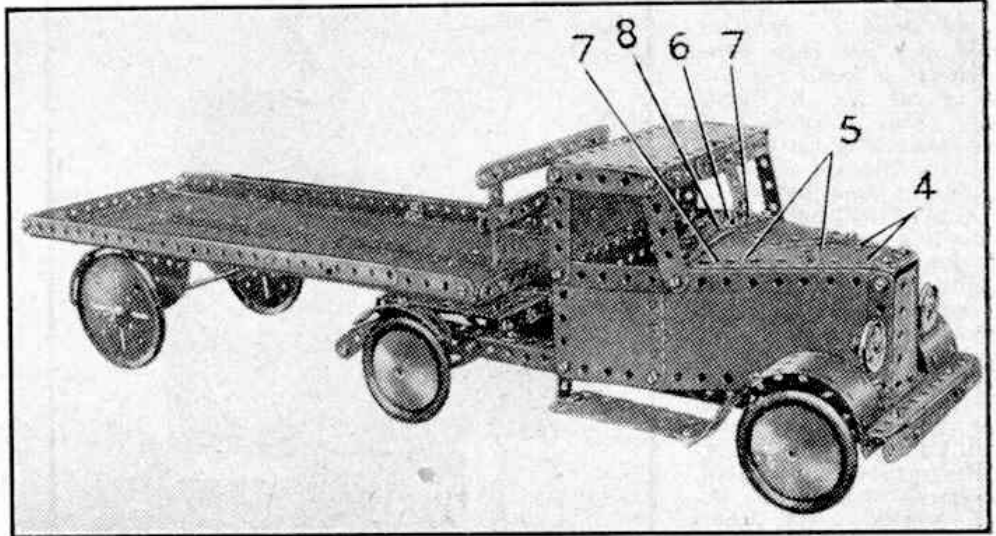
## Articulated Motor Lorry

OUR new model this month is designed for construction from Outfit No. 6. It is an articulated motor lorry consisting of a tractor unit and a trailer, and is typical of the vehicles most generally used for carrying cargoes from dockyards to warehouses, for which work they are particularly suitable. The tractor unit can be uncoupled from the trailer, so that it does not have to stand idle while the trailer is unloaded at the warehouse, but can return to the docks to be coupled to another trailer already loaded.

The chassis of the tractor unit consists of two  $1\frac{1}{2}$ " Angle Girders joined at the front by a  $2\frac{1}{2}$ " Strip 1 and at the rear by a  $2\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip 2. The front and rear axles are 5" Rods, and they are mounted in  $2\frac{1}{2}$ " Stepped Curved Strips and held in place by 1" Pulleys.

The back of the cab consists of a  $5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flanged Plate and a  $5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flexible Plate. The bolts holding the

$5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flanged Plate to the chassis fix also one half of a Hinged Flat Plate 3 that forms the floor. The other half of the Plate provides the front of the cab and is attached to the chassis by Angle Brackets. The cab sides are  $2\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ "

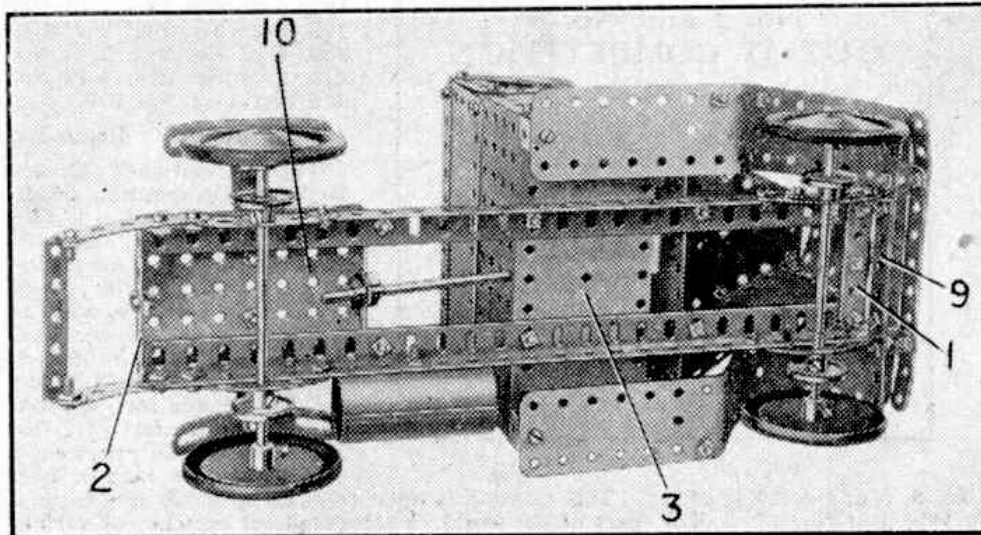


There is plenty of interest in a model articulated lorry such as that shown here. This example can be built from parts in Outfit No. 6.

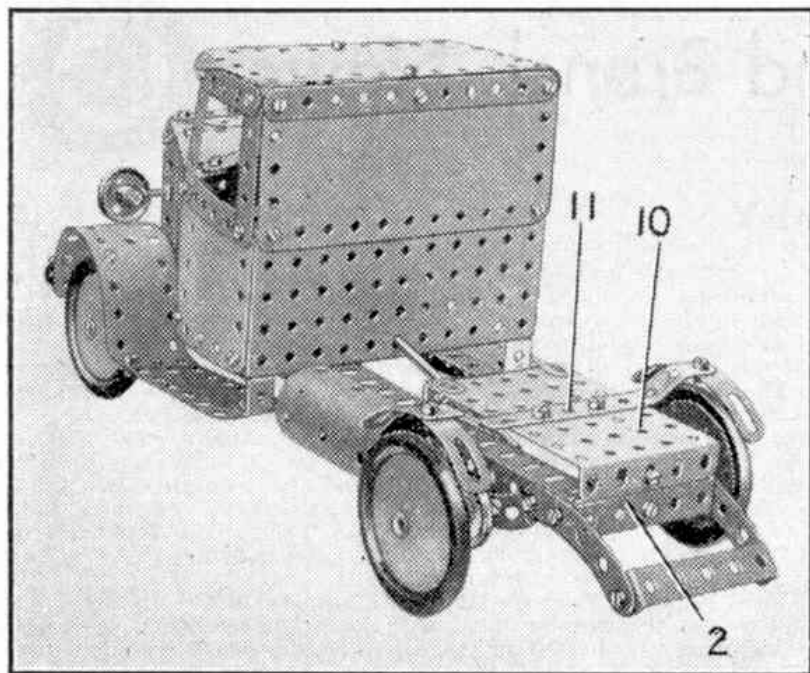
Flexible Plates fixed to the flanges of the Flanged Plate, and attached to Angle Brackets bolted to the Plate 3.

The sides of the bonnet are  $5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flexible Plates, which are joined at the front by two  $1\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strips. The lower Double Angle Strip is fixed to an Angle Bracket bolted to Strip 1. The radiator is a  $2\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flexible Plate.

The top of the bonnet is made from two  $2\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " and two  $2\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flexible Plates. The  $2\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flexible Plates 4 are bolted at an angle to the  $1\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip connecting the bonnet sides. A  $2\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flexible Plate 5 is then attached as shown to each of the Plates 4 already mentioned, and the Plates 5 are



The tractor unit seen from underneath.



A rear view of the tractor unit.

held together by a bolt that fixes also an Angle Bracket 6 and two  $2\frac{1}{2}$ " Strips 7. The outer ends of Strips 7 are attached to the sides of the cab by Angle Brackets, and two further  $2\frac{1}{2}$ " Strips 8 conceal the overlapping corners of Plates 5.

The cab is completed by window frames formed by  $2\frac{1}{2}$ " and 3" Strips fixed as shown. The top edge of the windscreen consists of  $3\frac{1}{2}$ " Strips, overlapped and fixed to Angle Brackets bolted to the window frames.

The front wings and running boards are made from  $5\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flexible Plates, two of which are used at each side. They are curved as shown and attached at the rear to a Double Bracket fixed to the  $5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flanged Plate. The front edge of the wing is bolted to a  $5\frac{1}{2}$ " Strip that is joined to a  $2\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip 9 bolted between the chassis Girders. The front bumper is formed from two  $5\frac{1}{2}$ " Strips bolted to Double Brackets fixed to the wings.

The headlamps are 1" loose Pulleys held to Collars by  $\frac{3}{8}$ " Bolts. A  $\frac{3}{4}$ " Bolt is passed through the bonnet on each side and held by a nut, and the Collar is then screwed on the shank of the Bolt and fixed by a second nut.

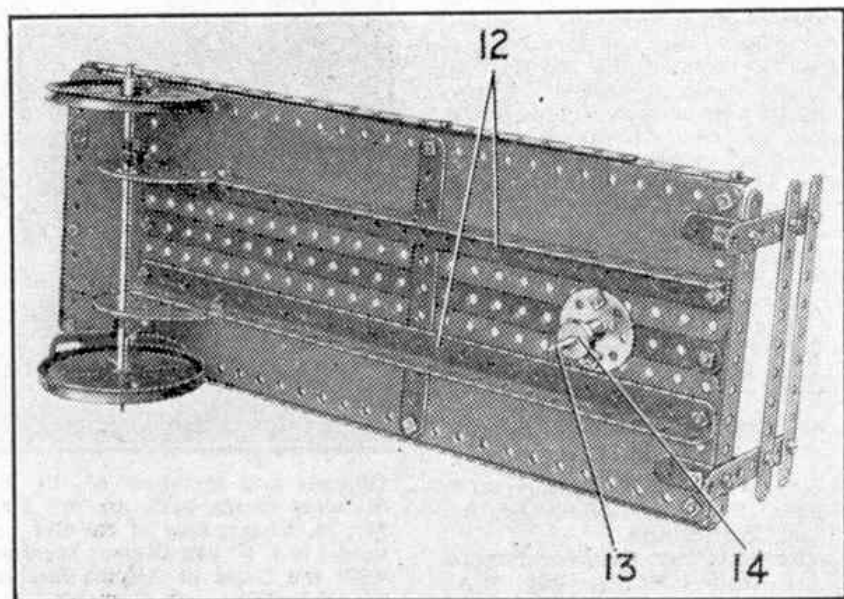
A  $3\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flanged Plate 10 is attached to the

chassis by two  $\frac{1}{2}$ " Reversed Angle Brackets and by a Fishplate bolted to the Double Angle Strip 2. A  $5\frac{1}{2}$ " Strip 11 joined to the Flanged Plate 10 supports the rear mudguards, which are represented by Formed Slotted Strips.

The chassis of the trailer, or more correctly semi-trailer, consists of two  $12\frac{1}{2}$ " Angle Girders 12, connected at the front by a  $5\frac{1}{2}$ " Strip. The platform is made from two  $12\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Strip Plates bolted direct to the chassis, with a  $12\frac{1}{2}$ " Strip fixed between them. The platform is extended at the rear by two  $4\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flexible Plates overlapped. The platform rails are  $12\frac{1}{2}$ " and  $5\frac{1}{2}$ " Strips, and they are bolted to Angle Brackets.

The road wheels are fixed on a Rod mounted in Semi-Circular Plates joined to Fishplates bolted to the chassis. The coupling device is a Rod 13 held in a Bush Wheel. This Rod fits in Flanged Plate 10, and carries a  $\frac{1}{2}$ " Pulley 14.

Parts required to build the Articulated Lorry:  
 9 of No. 1; 12 of No. 2; 4 of No. 3; 3 of No. 4; 12 of No. 5; 4 of No. 8; 2 of No. 9; 6 of No. 10; 4 of No. 11; 15 of No. 12; 2 of No. 12a; 3 of No. 12c; 1 of No. 14; 2 of No. 15; 1 of No. 15a; 1 of No. 18a; 2 of No. 19b; 4 of No. 22; 2 of No. 22a; 1 of No. 23a; 1 of No. 24; 6 of No. 35; 120 of No. 37; 10 of No. 37a; 6 of No. 38; 2 of No. 48; 3 of No. 48a; 1 of No. 52; 1 of No. 53; 2 of No. 59; 2 of No. 90; 4 of No. 90a; 2 of No. 111; 2 of No. 111a; 4 of No. 111c; 3 of No. 125; 4 of No. 187; 3 of No. 188; 4 of No. 189; 5 of No. 190; 1 of No. 191; 4 of No. 192; 2 of No. 197; 1 of No. 198; 2 of No. 214; 4 of No. 215; 1 of No. 216.



An underneath view of the trailer.