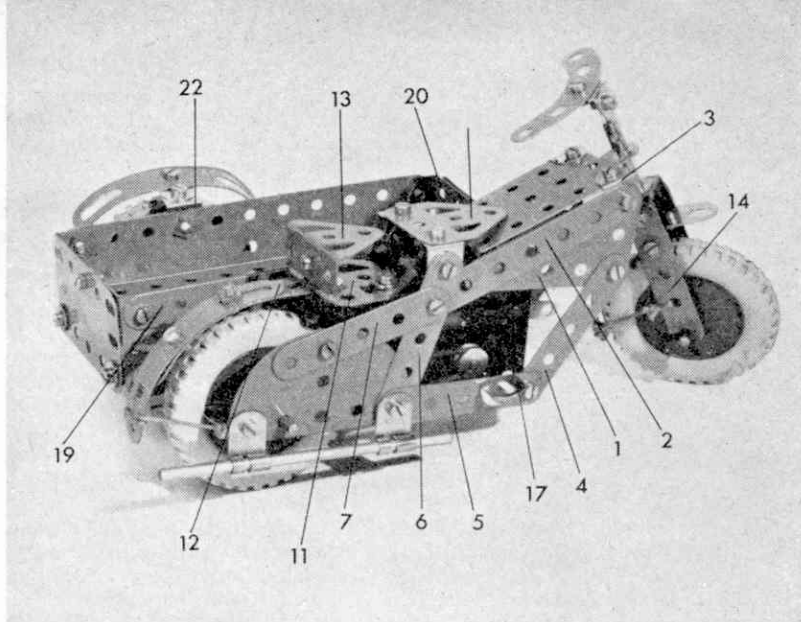


Motorised Meccano Motor Bike and side-car

Like its full size counterpart this simple model is really exciting to run and economical to build

by Spanner



A Meccano Magic Motor provides the motive power for this simple Motor Cycle Combination

ITS lively, often spectacular, performance makes the motor cycle an ideal sporting and competitive vehicle. Its economy commends it to those who want inexpensive transportation, and in these days of congested roads, the motor cycle is often the only thing moving at all! With such a wide appeal, it is no surprise that the motor cycle's popularity continues unabated.

Motor cycles can be divided into two basic categories—solo machines and combinations. The latter, of course are combined motor cycles and side-cars and our Meccano model is based on such a machine. It is easy to build and is equipped, as you will see, not with a passenger carrying side-car, but with a box. Such vehicles are used extensively by small businesses, and it

is not uncommon to see these boxes laden with window cleaners' ladders or a chimney sweep's brushes. The A.A. and R.A.C. Road Patrols are similarly equipped with slightly modified side-cars of this type.

Motor cycle

A $2\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Triangular Flexible Plate 1 and a $3\frac{1}{2}$ in. Strip 2 are fixed to a $2\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Flanged Plate by an Angle Bracket 3. Attached to Plate 1 is a $2\frac{1}{2}$ in. Strip 4, extended by another $2\frac{1}{2}$ in. Strip 5 which, in turn, is joined to Strip 2 by a third $2\frac{1}{2}$ in. Strip 6 at the same time fixing a fourth $2\frac{1}{2}$ in. Strip 7 in place. A Semi-circular Plate is bolted to Strips 5, 6 and 7.

The left-hand side of the motor cycle is similarly built up except that the place of Strip 5 is taken by a Meccano Magic Motor, at the same time fixing a $\frac{1}{2}$ in. Reversed Angle Bracket 8 in position. Both sides are then connected by an Angle Bracket 9 and a Flat Trunnion 10 attached to Strips 6 by using two Angle Brackets.

Another Flat Trunnion 11 is bolted to the Magic Motor and secured to this is an Angle Bracket and a formed Slotted Strip 12, extended by a second Formed Slotted Strip to serve as the rear mud-guard. A Trunnion 13, forming the rear part of the seat, is now fixed to the Angle Bracket as shown.

Two $2\frac{1}{2}$ in. Strips 14 bolted to a 1 in. by $\frac{1}{2}$ in. Double Bracket represent the front forks. These are mounted on a 2 in. Rod, journaled in the lugs of a Double Bracket bolted to the $2\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Flanged Plate and held in place by a Spring Clip. The front mud-guard, a Formed Slotted Strip extended by a Fishplate, is mounted on the Rod, being fixed to the forks by Cord. A $2\frac{1}{2}$ in. Stepped Curved Strip, attached by an Angle Bracket to a Rod and Strip Connector on the Rod, effectively acts as the handbars.

The front wheel is a $2\frac{1}{2}$ in. Road Wheel fixed on a $1\frac{1}{2}$ in. Rod, held in Strips 14 by Spring Clips. At the rear, a 2 in. Rod 15 carrying another $2\frac{1}{2}$ in. Road Wheel and a 1 in. fixed Pulley, is journaled in the Semi-circular Plates. The 1 in. Pulley is connected to the small pulley on the Motor output shaft by a 6 in. Driving Band. A 4 in. Rod 16, attached to the motor cycle by right-angled Rod and Strip Connectors, represents the exhaust pipe, while an Angle Bracket 17 bolted to Strip 5 serves to represent the footrest.

Side-car

The side-car is easily built up from a $5\frac{1}{2}$ in. by $2\frac{1}{2}$ in. Flanged Sector Plate 18, the respective flanges of which are extended by two $5\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Flexible Plates and two $2\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Flexible Plates. The upper edges of the $5\frac{1}{2}$ in. by $1\frac{1}{2}$ in. Plates are overlapped by $5\frac{1}{2}$ in. Strips 19, at the same time bolting a $2\frac{1}{2}$ in. by $\frac{1}{2}$ in. Double Angle Strip 20 in place at each end.

A 4 in. Rod serves as the rear axle, being fixed in place by a $2\frac{1}{2}$ in. Road Wheel 21 on the nearside, and by a Spring Clip on the offside. Bolted to nearside Strip 19 is an Angle Bracket 22 extended by a Fishplate. A Formed Slotted Strip is bolted to the Fishplate to act as a mud-guard. The completed side-car is finally joined to the motor cycle by Reversed Angle Bracket 8 and a similar Reversed Angle Bracket as shown.

Parts required:-

2 of No. 2	4 of No. 35	2 of No. 126a
2 of No. 3	53 of No. 37a	1 of No. 186a
9 of No. 5	53 of No. 37b	3 of No. 187
2 of No. 10	11 of No. 38	2 of No. 189
1 of No. 11	1 of No. 40	1 of No. 212
1 of No. 11a	2 of No. 48a	2 of No. 212a
9 of No. 12	1 of No. 51	2 of No. 214
2 of No. 15b	1 of No. 52	3 of No. 215
1 of No. 17	1 of No. 90a	2 of No. 221
1 of No. 18a	2 of No. 125	1 Meccano
1 of No. 22	1 of No. 126	Magic Motor

An underneath view of the model showing the lower anchoring points for the Motor

