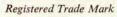


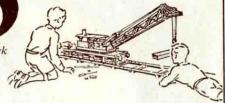
MECCANO

THE WORLD'S FINEST HOBBY FOR BOYS



tightly, so that the parts are not gripped. Then, to prevent the nut from unscrewing, a second nut is

screwed up tightly against it, the first nut meanwhile being held with a Spanner. This method of using



HOW TO BEGIN

With the Meccano Parts contained in this Outfit you will be able to build many different kinds of models — Cranes — Trucks — Roundabouts — and lots of other subjects that interest boys.

Each part in the Outfit is actually a real engineering part in miniature. The only tools required for

fitting them together and making the splendid models illustrated in this Book are a Spanner and a Screwdriver, both of which you will find in the Outfit.

Make the simple models first. Choose the one you want to build and then lay out on the table all the parts mentioned in the 'Parts Required' list for that model. You will be able to identify the parts by looking at the pictures in the list

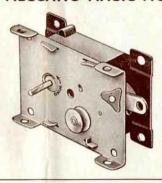
To help you to start building, we will describe how Model O.3, Garden Seat, is made. Begin by bolting to the Flanged Plate the 54" Strips that form the back legs of the seat. Then attach the upper ends of these Strips to two further 51/2" Strips to form the back. Two 21" Strips are then bolted to the front flange of the Plate to form the front legs. The model is completed by fixing two 2\frac{1}{2}" \times \frac{1}{2}" Double Angle Strips to the back to form arm rests.

In some models it is necessary to join certain parts together so that, although they cannot come apart, they are free to bivot or move in relation to one another. To do this the parts are bolted together as usual, but the nut is not screwed up

THE MECCANO MAGIC MOTOR

The greatest thrill in Meccano modelbuilding comes when a model is set to work by means of a Motor. The Meccano Magic Clockwork Motor is specially designed to drive the kind of models you can build with this Outfit.

The illustrations of



Models 0.15, 0.23 and O.26 show how the Magic Motor can be fitted to No. O Outfit models. One of these wonderful little Motors will add greatly to the fun you obtain from yourmodel-building.

a second nut is known as lock-nutting.

The Meccano Magic Motor is not included in the Outfit.

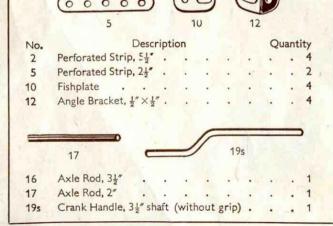
A Rod is usually supported in a bearing, which is generally a hole in a Strip, Trunnion or Flat Trunnion, so that it is free to revolve. The Rod is then said to be journalled in the Strip, Trunnion or Flat Trunnion as the case may be.

When you have built all the models shown in this Book the fun is not over but is just beginning! Now comes the chance to make use of your own ideas. First of all rebuild some of the models making any small changes in construction that may occur to you; afterwards try building some simple models entirely to your own design. In doing this you will feel the thrill of the engineer and the inventor.

As you gain experience you will naturally wish to build bigger and better models. To do this you will need a larger Outfit containing a greater number and variety of parts. To convert your Outfit into the next larger one, the No. 1, you need a No. Oa Accessory Outfit.

If you ever meet with any small difficulty, or if you would like advice on any point connected with your model-building, write to Information Service, Meccano Ltd. Binns Road. Liverpool 13.

CONTENTS OF MECCANO No. O OUTFIT

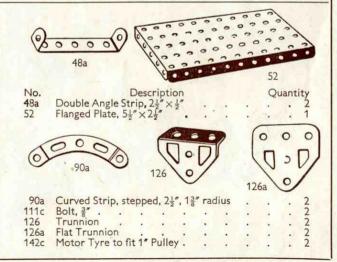




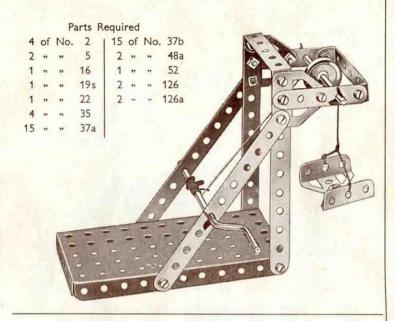




| No. | | | Descri | pt | ion | | | Qu | ant | ity |
|-----|----------------|----|---------|-----|---------|---|----|----|-----|-----|
| 22 | Pulley, 1" dia | m. | with be | oss | and scr | e | w | | | 2 |
| 24 | Bush Wheel, | 13 | diam. | | | | .1 | | | 1 |
| 34 | Spanner. | | | | . 5 | | | | | 1 |
| 35 | Spring Clip | | | | | | | | | 4 |
| 36 | Screwdriver | | | | | | | | | 1 |
| 37a | Nut | | | | | | | | | 22 |
| 37ь | Bolt, 7/32" | | 1. | | | | | | | 18 |
| 38 | Washer. | | | | | | | | | 4 |
| | | | | | | | | | | |



O.I ELEVATOR



O.4 STATION TRUCK

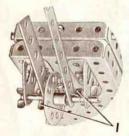


Fig. O.4a

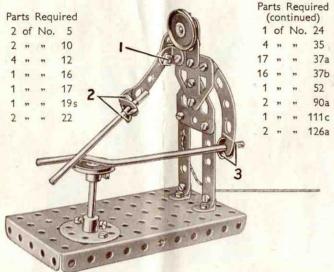
The 5½" Strips forming the handle are placed one on each side of a Bush Wheel on the front axle, and they are held in place by Spring Clips (1), as shown in Fig. 0.4a.

Parts Required

| 4 | of | No. | 2 | 2 | of | No. | 22 | 2 | of | No. | 48a | |
|---|------|-----|----|----|------|-----|-----|---|----|-----|------|--|
| 1 | ** | ** | 5 | 1 | " | ,, | 24 | 1 | 37 | ** | 52 | |
| 2 | . 33 | ** | 10 | 4 | . 22 | ** | 35 | 2 | 97 | 33 | 90a | |
| 2 | ** | " | 12 | 17 | 75 | " | 37a | 2 | ** | ** | 126 | |
| 1 | ** | 11. | 16 | 17 | ** | ,, | 37b | 2 | ** | ** | 126a | |
| 1 | ** | ** | 17 | 11 | ** | ** | 38 | 2 | ** | ** | 142c | |

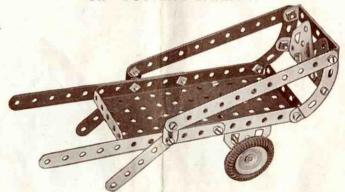


O.2 BLACKSMITH



The arm holding the hammer is a $2\frac{1}{4}$ " stepped Curved Strip, pivoted to an Angle Bracket by a *lock-nutted* bolt (1). The hammer is a $3\frac{1}{4}$ " Rod held in an Angle Bracket at the end of the arm by two Spring Clips (2). The Crank Handle is fixed in the other arm by the Spring Clips (3). The hammer arm is operated by a Cord attached to the end of the Curved Strip forming the arm.

O.5 COSTER'S BARROW



Parts Required

| 4 | of | No. | 2 | 2 | of | No. | 22 | 2 | of | No | . 90a |
|---|----|-----|----|----|------|------|-------------------|---|-----|----|-------|
| 2 | " | ** | 5 | 16 | - 33 | 37. | 37a 37b 48a | 2 | 22 | ** | 126 |
| 2 | ** | 12 | 10 | 16 | 11 | ** | 37b | 2 | ,,, | 31 | 126a |
| 1 | ,, | .,, | 16 | 2 | 71 | . 77 | 48a | 2 | ,, | " | 142c |
| | | | - | 1 | 12 | 31 | 52 | - | | | |

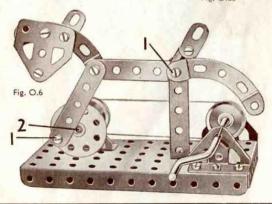
O.3 GARDEN SEAT



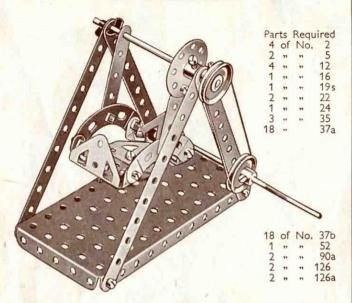
O.6 BUCKING BRONCHO

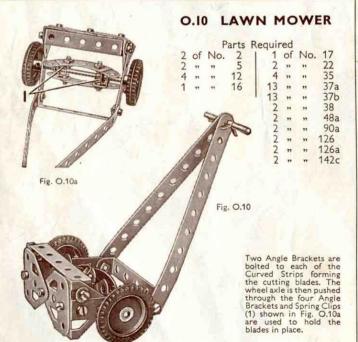
The Bolts (1) are fitted with *lock-nuts*, so that the parts they attach are free to pivot. Bearings for a 2" Rod, the end of which is seen at (2), are provided by a Fishplate (3), Fig. O.6a, bolted to an Angle Bracket (4), and a Trunnion (5).

| Par | rts | Requ | ired | 120 | of | No. | 37a | 5 |
|-----|-----|------|------|-----|----|-----|------|-----------|
| 2 | of | No. | 5 | 15 | ** | ** | 37b | |
| 4 | ** | 11 | 10 | 1 | 4. | ** | 38 | 3-5-1 |
| 1 | ** | 33 | 12 | 1 | 44 | in. | 48a | 10 · 10 |
| 1 | .99 | .99 | 17 | 1 | ** | ** | 52 | 4 |
| 1 | ** | ** | 19s | 2 | | ** | 90a | |
| 2 | ** | ** | 22 | 2 | " | ** | 111c | |
| 1 | 32 | ** | 24 | 2 | ** | ** | 126 | |
| 4 | ** | 299 | 35 | 2 | ** | ** | 126a | |
| | | | | 1 | | | | Fig. O.6a |

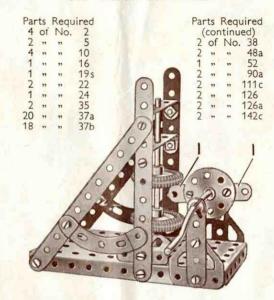


O.7 SWING BOAT



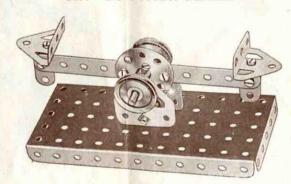


O.8 DROP HAMMER



The hammer, which is formed by the two 1° Pulleys on a 3‡° Rod, is lifted by the Fishplates (1) as they rotate when the Crank Handle is turned. The Fishplates are bolted to a Bush Wheel fixed on the Crank Handle.

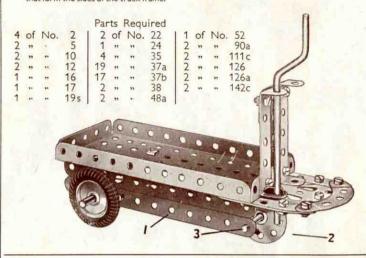
O.II COUNTER SCALES



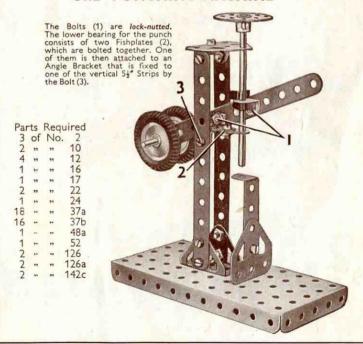
| | | | | Pa | rts | Requ | ired | | | | |
|---|----|-----|----|-----|-----|------|------|---|----|-----|------|
| 1 | of | No. | 2 | 1 2 | of | No. | 22 | 2 | of | No. | 38 |
| 2 | 37 | 22 | 10 | 1 | 22 | 27 | 24 | 1 | ** | ** | 52 |
| 4 | 22 | 22 | 12 | 9 | 22 | 29 | 37a | 2 | " | 33 | 126 |
| 1 | 39 | " | 17 | 9 | 17 | 31 | 37b | 2 | ** | 37 | 126a |
| | | | | | | | | | | | |

O.9 ELECTRIC TRUCK

The two 5½° Strips (1) on each side of the model are fastened to the Flanged Plate by two Trunnions secured to the Plate on the underneath side. A Bush Wheel (2) is fixed on the 2° Rod (3), which passes through the end holes of the 5½° Strips that form the sides of the truck frame.



O.12 PUNCHING MACHINE











MECCANO MAGAZINE

The happiest and most successful boys are those who take a keen interest in the world around them. The 'MECCANO MAGAZINE' is the ideal paper for these boys. Month by month its pages are filled with attractively-written articles, splendidly illustrated from actual photographs.

The subjects include Engineering in all its branches, Railways, Road Transport, Aeroplanes and Shipping. Inventions and Scientific Discoveries are described in simple language. Everything is dealt with in an attractive and straightforward style, and with an accuracy that has won for the Magazine the enthusiastic approval of the engineering, technical and scientific world. Special sections are devoted to Model-building with Meccano, and to the operation of realistic Miniature Railways; and Stamp Collecting articles are another important feature. Model-building competitions of all kinds, and of a variety to suit every reader, are announced each month.

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The Meccano Guild is an organization for boys, started at the request of boys, and as far as possible conducted by boys. In joining the Guild, a Meccano boy becomes a member of a great brotherhood of world-wide extent. Wherever he happens to be, even in strange countries, he will know that he has met a friend whenever he sees the little triangular badge of membership. The Meccano Guild is bringing together Meccano boys all over the world, and helping them to get the best out of life. At its head — guiding and controlling and taking a personal interest in this great movement — is the President. Mr Roland G. Hornby, son of the inventor of Meccano.

HOW TO JOIN THE MECCANO GUILD

Any owner of a Meccano Outfit, no matter what its size, may become a member. All he has to do is to fill in the official application form on the back of this leaflet, have his signature witnessed, and send the form to Headquarters with a postal order (not stamps) for the necessary amount in payment for the official badge, which he will wear in his buttonhole.

The price of the badge for boys living in the British Isles is 1/-. For those living overseas it is 1/6 (30 cents in Canada). Applicants living in Canada, Australia, New Zealand or South Africa should write to the Meccano agents in their countries. Their addresses are as follows:

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SOUTH AFRICA: Arthur E. Harris (P.O. Box 1199), 142 Market Street, Johannesburg.

Their Badges and certificates are then forwarded without delay, while their application forms are sent to Headquarters at Liverpool.

Applicants living in any other country overseas should forward their forms, preferably with a British postal order or a money order (not stamps) for 1/6, direct to the Secretary, the Meccano Guild, Binns Road, Liverpool 13, England.

Guild members are eligible for the Correspondence Club, by which they are placed in touch with other members in various parts of the world. Full particulars and enrolment forms can be obtained from the Secretary.

The Secretary will send also, on request, full details of the Guild Recruiting Campaign, and of the Medallion awarded to members who are successful in obtaining recruits, together with particulars of the Meccano clubs founded and established by enthusiastic Meccano boys. A special booklet, 'How to run a Meccano Club' will be sent post free to any member on receipt of 2d. in stamps.

APPLICATION FOR MEMBERSHIP OF

MECCANO GUILD

Headquarters: BINNS ROAD, LIVERPOOL



BADGE OF MEMBERSHIP

I possess a Meccano Outfit, and I hereby make application for membership of the Meccano Guild.

I approve of the objects of the Guild, and I promise on my honour

- (1) To conform to the rules and regulations of the Meccano Guild.
- (2) To promote its objects by my own example; to be helpful to others; to be clean in thought and habit; to be determined to learn and make progress.
- (3) To wear the Meccano Guild Badge on all possible occasions.
- (4) To recognize and acknowledge all other Members wearing the Guild Badge, and to render them help in case of need.

I enclose 1/- for the Guild Badge (Great Britain). I enclose 1/6 for the Guild Badge (Overseas).

I enclose 30c. for the Guild Badge (Canada).

Name of Applicant.

Address

Strike out line not applicable (See other side).

reliciose soc. for the Sund Badge (Canada).

(BLOCK CAPITALS PLEASE)

Address

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Date

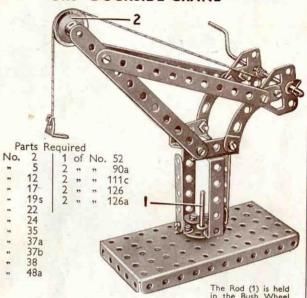
Witness

The witness should be the Parent, Guardian, Employer, Schoolmaster or Church Minister, and should

THE THREE GREAT OBJECTS OF THE GUILD

- To make every boy's life brighter and happier.
- To foster clean-mindedness, truthfulness, ambition and initiative in boys.
- To encourage boys in their hobbies, and especially in the development of their knowledge of mechanical and engineering principles.

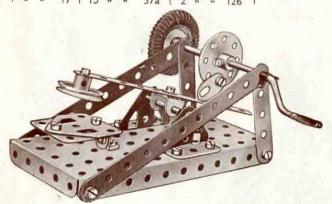
O.13 DOCKSIDE CRANE

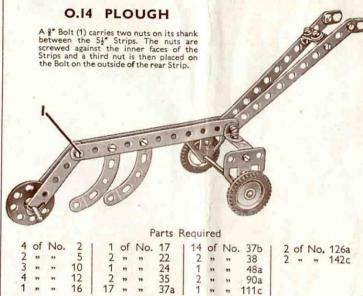


The Rod (1) is held in the Bush Wheel and is passed through the Flanged Plate. A 1" Pulley fixed on the Rod underneath the Flanged Plate holds the crane in position on its base. The Pulley (2) is mounted on a 2" Bolt. The Bolt is passed through the top hole of one of the 5½" Strips, and is gripped by the set-screw in the boss of the Pulley.

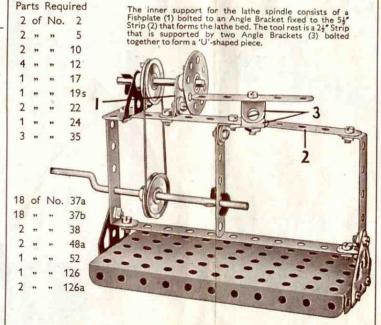
O.16 MECHANICAL HAMMER

| | | | | | | Pa | rts Re | equir | ed | | | | | | |
|---|----|-----|----|----|----|-----|--------|-------|----|-----|------|---|----|-----|------|
| 3 | of | No. | 2 | 1 | of | No. | 19s | 115 | of | No. | 37b | 2 | of | No. | 126a |
| 2 | ** | ** | 5 | 2 | 12 | 22 | 22 | 1 | 33 | ** | 38 | 1 | " | " | 1420 |
| 1 | 22 | ** | 10 | 1 | 22 | ** | 24 | 1 | | ** | 52 | | | | |
| 4 | - | ** | 12 | 3 | ** | " | 35 | 1 | 22 | ** | 111c | | | | |
| 1 | | | 17 | 15 | ** | ** | 37a | 12' | ** | | | | | | |





O.I7 LATHE





carries also a \frac{*}{2}^{\text{T}} Pulley, which is connected by a second Driving Band with a further 1" Pulley fixed to the 3\frac{1}{2}" Rod on which the sails are mounted. The 3\frac{1}{2}" Rod is held in place by Spring Clips, one behind the Bush Wheel and one on its rear end. If a Motor is not used the \frac{1}{2}" Pulley (which is supplied with the Motor) is replaced by a 1" Pulley.

O.18 WELL WINDLASS

The end of the bucket hoisting cord is held under a Spring Clip (1) on the Crank Handle.

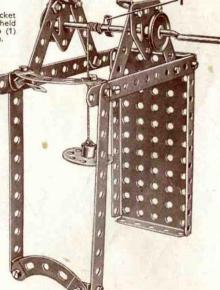


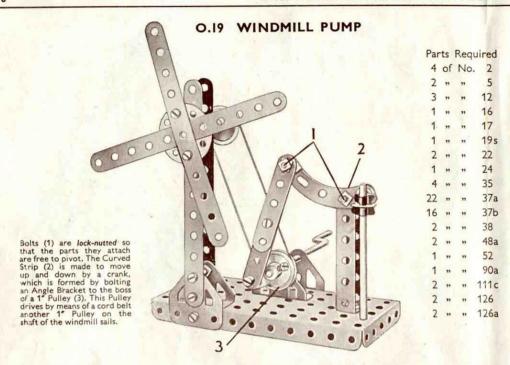
19s 22 35

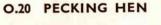
37a 37b

90a

48a 126a





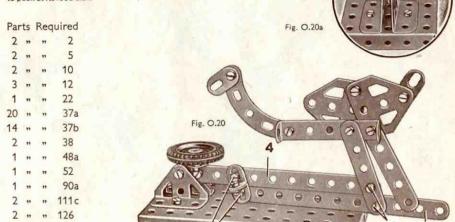


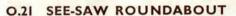
The 5½° Strip (4) is held on a ¾° Bolt between two Trunnions as shown in the inset. Fig. O. 20a.

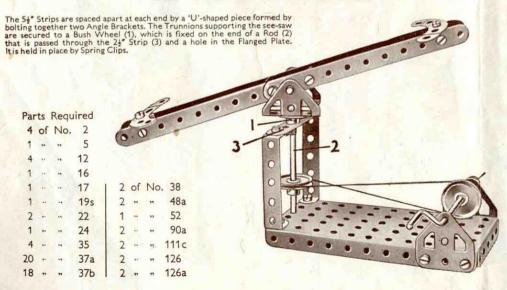
The Bolts (1) and (2) are lock-nutted and the 5½° Strip (3) must be free to move to and fro. By pulling and pushing this Strip the hen will be made to peck at its food dish.

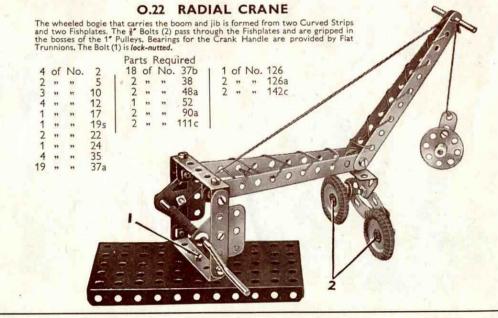
126a

1 " " 142c

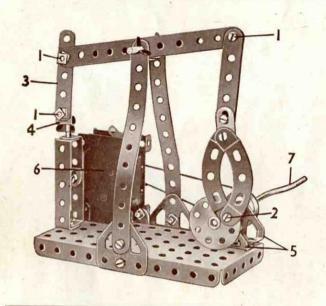








O.23 BEAM ENGINE



The Bolts (1) are lock-nutted. The Curved Ine Boits (1) are lock-nutted. The Curved Strips must be free to pivot on the Boit (2). The Strip (3) also must be freely pivoted to the Angle Bracket (4). The Trunnions (5) are each raised from the Flanged Plate by a Washer on each of the Boits that hold them in place. The Magic Motor (6) is attached to the Flanged Plate by two Fishplates and the

Flanged Plate by two Fishplates, and the pulley on its shaft is connected by cord to a 1" Pulley on the Crank Handle (7).

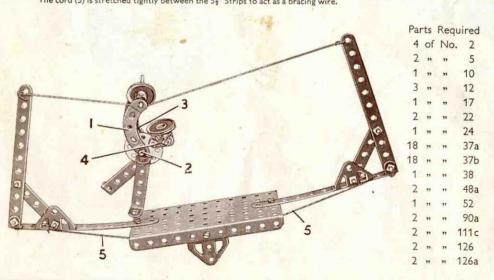
Parts Required

| 4 | of | No. | 2 | 15 | of | No. | 37b |
|----|----|-----|-----|-------|-----|---------------|---------|
| 2 | 22 | ,11 | 5 | 2 | 22 | 22 | 38 |
| 3 | 33 | 27 | 10 | 2 | 99 | >> | 48a |
| 4 | 27 | ,, | 12 | 1 | ** | 32 | 52 |
| 1 | 22 | " | 16 | 2 | ** | " | 90a |
| 1 | ** | 39 | 17 | 2 | 22 | 29 | 111c |
| 1 | 27 | 22 | 19s | 2 | 27 | ** | 126 |
| 1 | " | * | 22 | 2 | 22 | " | 126a |
| 1 | ** | ** | 24 | м | aai | - M- | *** |
| 4 | 33 | ** | 35 | | | c Mo luded | |
| 21 | ** | ** | 37a | (1101 | | | Outfit) |
| | | | | | | | |

O.25 HIGH WIRE ACROBAT

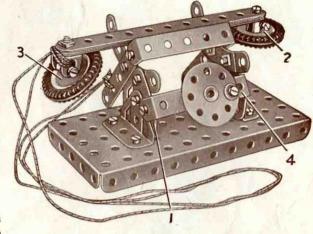
The Curved Strip (1) is held tightly on a §" Bolt (2) by a nut. A second Curved Strip (3) is passed over a §" Bolt, and the Bolts are pushed from opposite sides through the boss of the Bush Wheel so that their ends are positioned under the set-screw. The set-screw is then tightened to hold both §" Bolts in position. The acrobat's head is a 1" Pulley fixed by its set-screw on a bolt in an Angle Bracket. The Angle Bracket is bolted to a Fishplate (4).

The cord (5) is stretched tightly between the 5§" Strips to act as a bracing wire.



O.24 TELEPHONE

The telephone support is made from two Trunnions bolted to the Flanged Plate, and a Flat Trunnion (1) is fixed to each of them at the angle shown. to each of them at the angle shown. The telephone arm consists of four 5½" Strips, and the earpiece (2) is gripped on a ½" Bolt by its set-screw. The mouthpiece (3) is attached to a "U"-shaped bracket made from two Angle Brackets. A bolt passed through each Angle Bracket is screwed into the boss of the Pulley. The dial is a Bush Wheel held by its set-screw on a bolt passed through the Double Angle Strip (4).

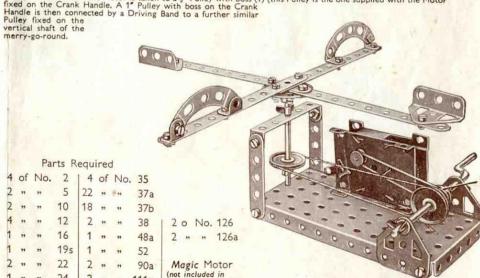


Parts Required

| 1 | 4 | of | No. | 2 | | | | | | | | - | | | 75 | 9 | - | STATE STATE OF | - | 1 | - | | |
|------|---|----|-----|----|----|----|-----|-----|---|---|----|-----|-----|---|----|-------|-------|----------------|---|---|----|-----|------|
| 1 | 2 | 99 | ** | 5 | 17 | of | No. | 37a | | | | - | | | 22 | and a | A-E-Z | 1 | | | | | |
| 000 | 2 | 22 | 59 | 12 | 18 | 22 | " | 37b | | | | | | | | | | | | | | | |
| | 2 | " | ** | 22 | 1 | 99 | ** | 38 | ì | 1 | of | No. | 52 | 1 | 2 | of | No. | 111c | 1 | 2 | of | No. | 126a |
| 0.00 | 1 | " | ** | 24 | 2 | " | " | 48a | 1 | 2 | 22 | ** | 90a | | 2 | ** | 29 | 111c 126 | | 2 | " | ,, | 142c |

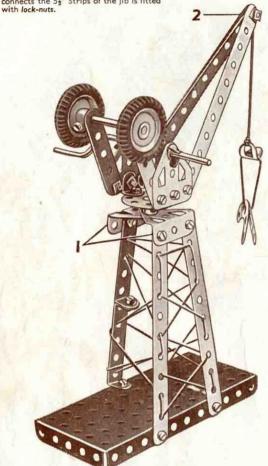
O.26 MERRY-GO-ROUND

Two Fishplates are bolted to one of the side-plates of the Magic Motor and are fixed to the side flange of the Flanged Plate. The drive from the Motor is taken to a ½ Pulley with boss (1) (this Pulley is the one supplied with the Motor fixed on the Crank Handle, A 1 Pulley with boss on the Crank



O.27 SHIPBUILDING-CRANE

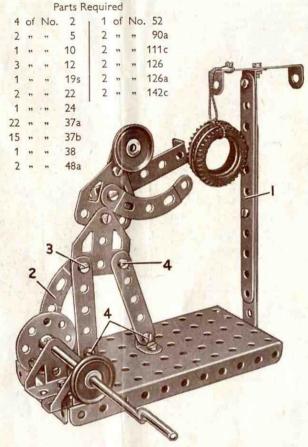
Two Trunnions (1) form the top of the tower, and a * Bolt passed through the holes in their pointed ends and into the boss of a Bush Wheel, forms the noise in their pointed ends and into the boss of a bush wheel, forms the pivot for the jib. Two Flat Trunnions are connected to the Bush Wheel by Angle Brackets. The #" Bolt (2) that connects the 5\frac{1}{2}" Strips of the jib is fitted



Parts Required

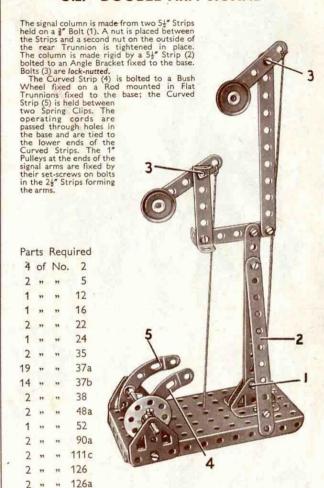
| 4 | of | No. | 2 | 1 | of | No. | 24 | 1 | of | No. | 52 |
|---|----|-----|-----|----|----|-----|-----|---|----|-----|------|
| 2 | ** | " | 5 | 2 | 32 | ** | 35 | 2 | ** | 22 | 90a |
| 3 | 39 | 33 | 12 | 17 | ** | ** | 37a | 2 | 27 | ** | 111c |
| 1 | 12 | 22 | 17 | 15 | ** | ** | 37Ь | 2 | 37 | 33 | 126 |
| 1 | ** | 19 | 19s | 2 | 97 | ** | 38 | 2 | 33 | ** | 126a |
| 2 | ** | 94 | 22 | 2 | 11 | ,, | 48a | 2 | ** | 39 | 142c |

O.28 BOXER TRAINING



The column (1) is made from four 5½" Strips. These are placed together in pairs, and are then overlapped nine holes. The Curved Strip (2) is locknutted to the Bush Wheel, and is connected to the body of the boxer by a lock-nutted Bolt (3). Bolts (4) are also lock-nutted.

O.29 DOUBLE ARM SIGNAL



HOW TO CONTINUE

When you have built all the models shown in this Book. and others of your own invention, you should get from your Meccano Dealer a No. Oa Accessory Outfit. This will convert your No. O Outfit into a complete No. 1 Outfit. With this larger Outfit you will be able to build a large number of new, bigger and more interesting models.

The model-building possibilities of Meccano are un-limited. For each of the complete Outfits there is an

Accessory Outfit that converts it into the one next larger. No matter with which Outfit you begin the Meccano hobby, by means of these Accessory Outfits you can gradually build up your original Outfit until you have the equivalent of a complete Outfit No. 10, which will provide you with the full resources of the wonderful Meccano

Every Outfit has its own Book of Instructions.