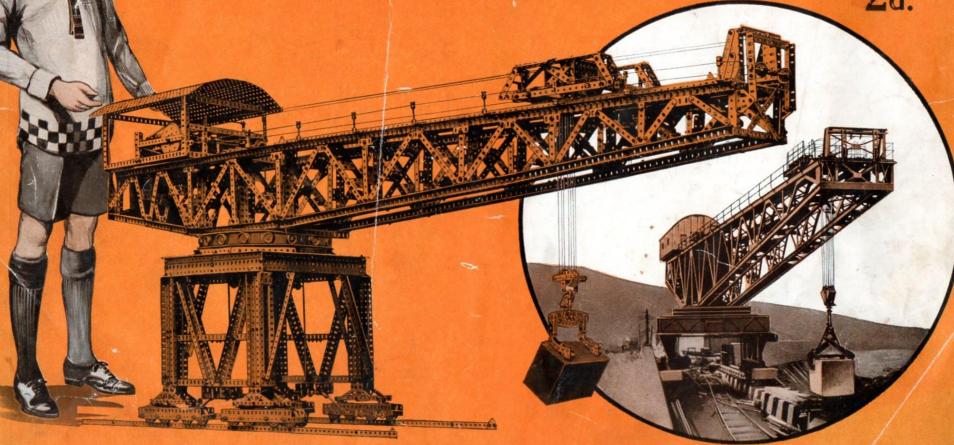
MECCANO

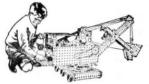
HORNBY'S ORIGINAL SYSTEM - FIRST PATENTED 1901

INSTRUCTIONS FOR ACCESSORY OUTFIT Da

PRICE

2d.





MECCANC



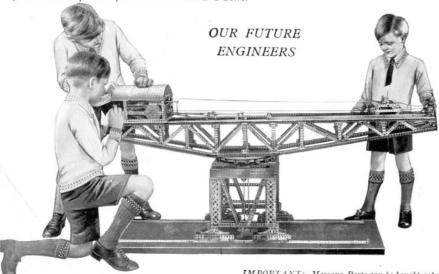
HORNBY'S ORIGINAL SYSTEM - FIRST PATENTED 1901

REAL ENGINEERING IN MINIATURE

The Meccano Accessory Outfit Da converts your Outfit D into an E, and enables you to build the additional models illustrated in this Manual. As a Meccano enthusiast you will realise that our examples do not exhaust the scope of your Outfit. It is no exaggeration to say that the possibilities of Meccano are limitless—there is always something new that you can invent and build, and most models can be constructed in many alternative ways. In addition to the fascination and satisfaction obtained by building new models, you can enter them in the model-building competitions that are a regular feature of the "Meccano Magazine." These competitions are open to all Meccano boys and valuable prizes are offered in each class.

HOW TO PROGRESS

When you desire to make further progress and to build bigger and better models, it is only necessary for you to purchase an Accessory Outfit Ea which will convert your E into an F. In turn, an Accessory Outfit Fa will convert your F into a G, and so you go on, until finally your ambition is realised and you are the proud possessor of an L Outfit.



ELECTRIC LIGHTING OF MECCANO MODELS

It is great fun to illuminate your Meccano models by electric light, and a special Meccano Lighting Set can be obtained from your dealer for this purpose. This consists of two spot lights with plain and coloured imitation glass discs, one stand lamp, two special brackets, and two pea lamps, operated from a 4-volt flashlamp battery (not included in the set). The stand lamp is used for decorative purposes, and the spot lights can be used as car headlamps, floodlights on cranes, and in countless other ways.

THE "MECCANO MAGAZINE"

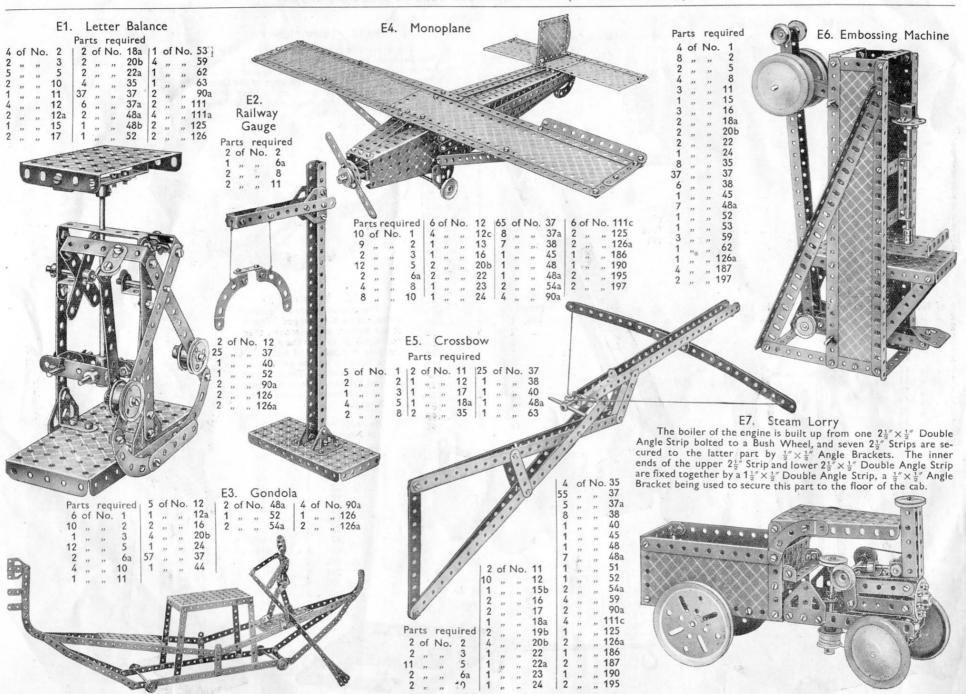
The "Meccano Magazine" is essential to the full enjoyment of the Meccano hobby. A section of it is devoted to the Editor's replies to his readers' enquiries; the progress of Meccano Clubs throughout the world is reported; and full details are given of the latest model-building achievements. In addition, a wealth of informative articles on all subjects of interest to boys is included in every issue. The publishing date is the first of each month. If you are not already a reader of the "Meccano Magazine" write to the Editor for full particulars, or order a copy from your Meccano dealer or newsagent.

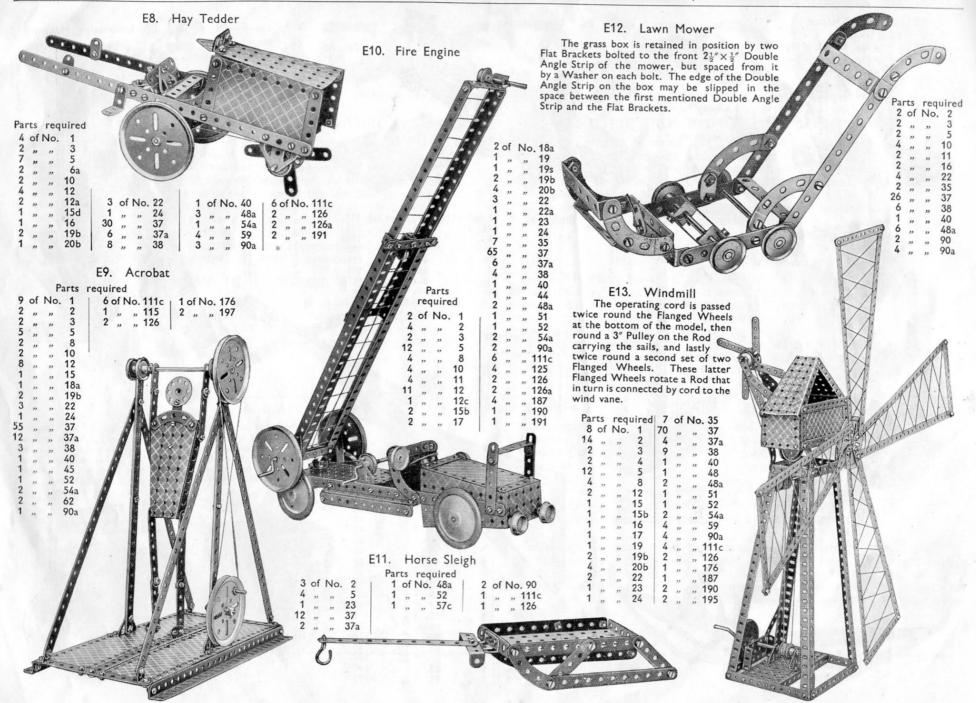
MECCANO SERVICE

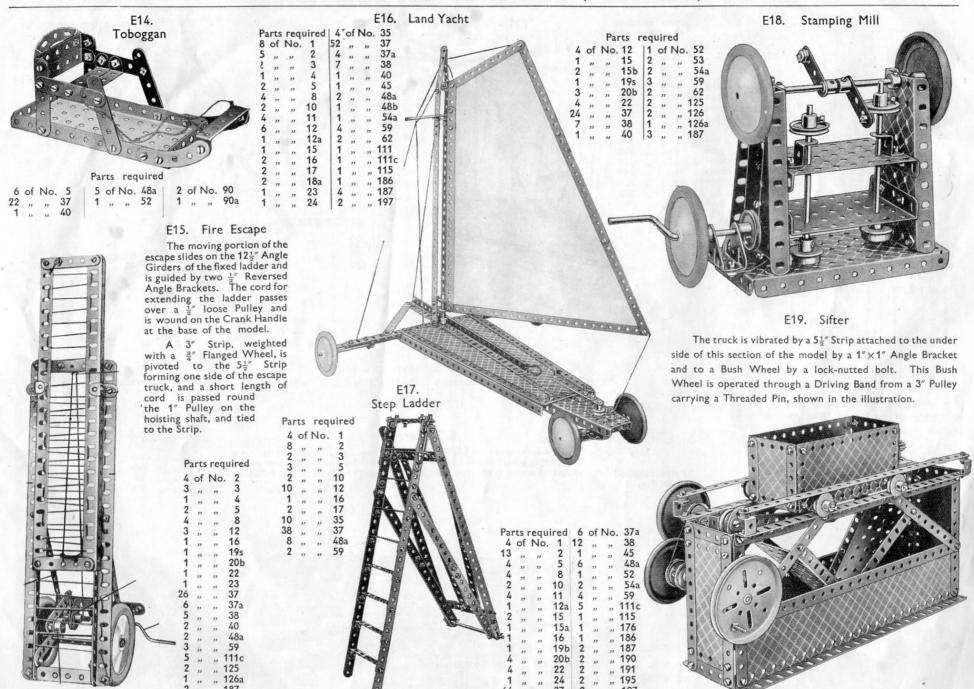
The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day, all the year round. Some write to us because they are in difficulty, others because they want advice on their work or pleasures, or about the choice of a career. Others, again, write to us just because they like to do so and we are glad to know that they regard us as their friends.

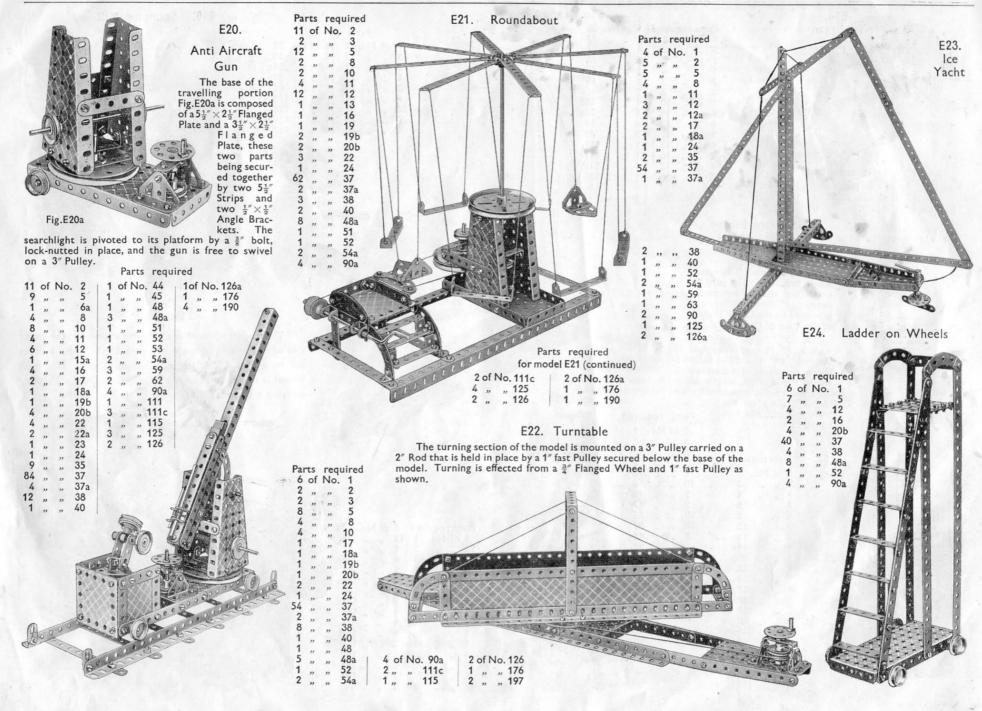
Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. The wonderful knowledge of engineering matters possessed by our staff of experts is unique. This vast store of knowledge, gained only by many years of hard-earned experience. is at your service. We want the Mcccano boy of to-day to be the famous engineer of to-morrow.

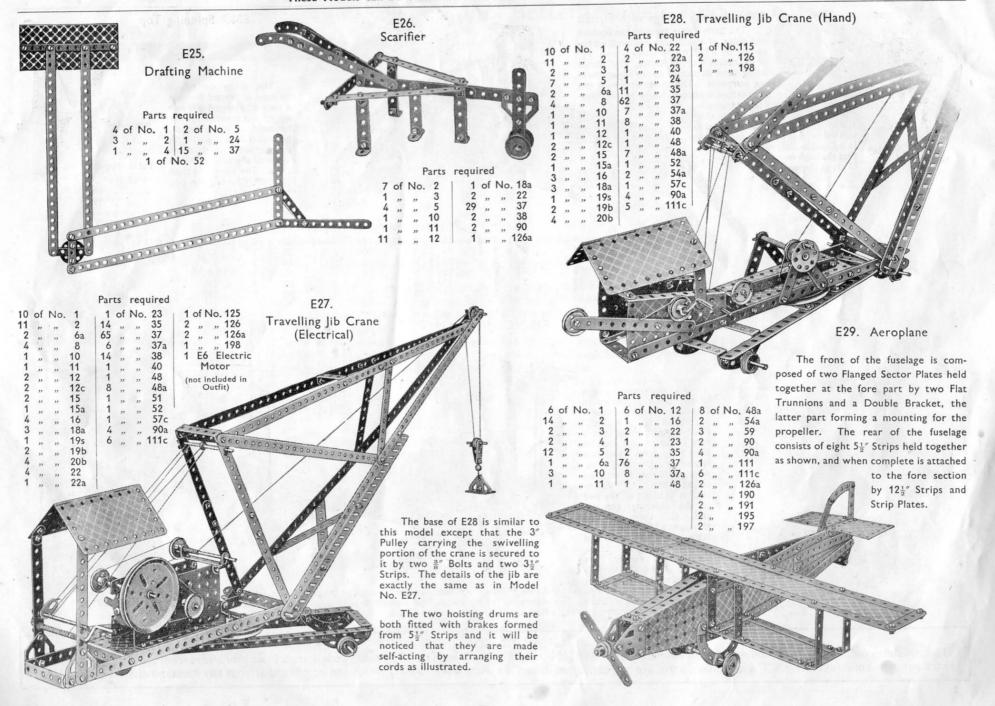
IMPORTANT:-Meccano Parts can be bought separately at any time in any quantity from your Meccano dealer

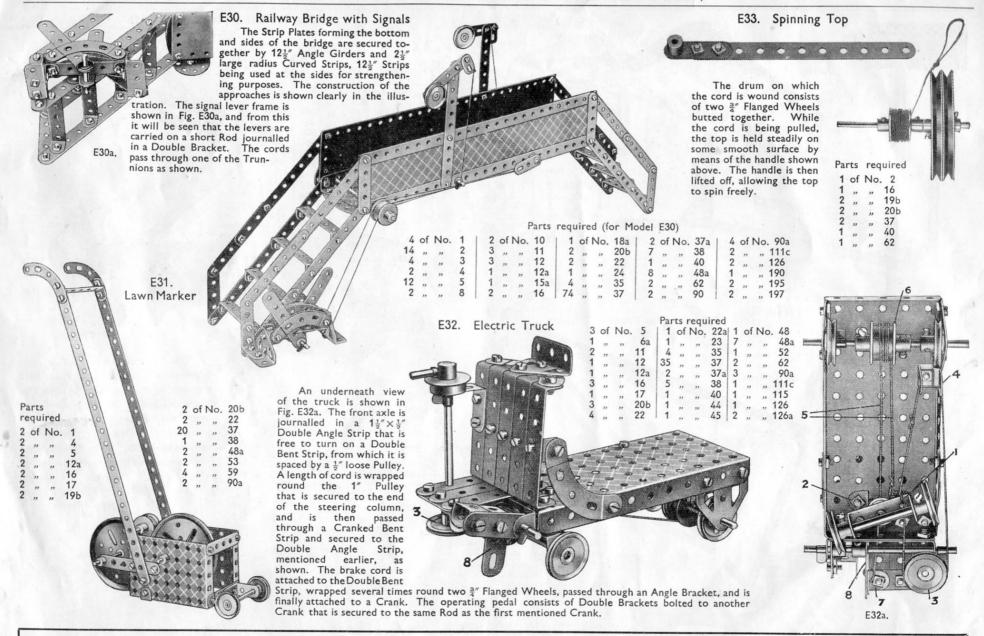






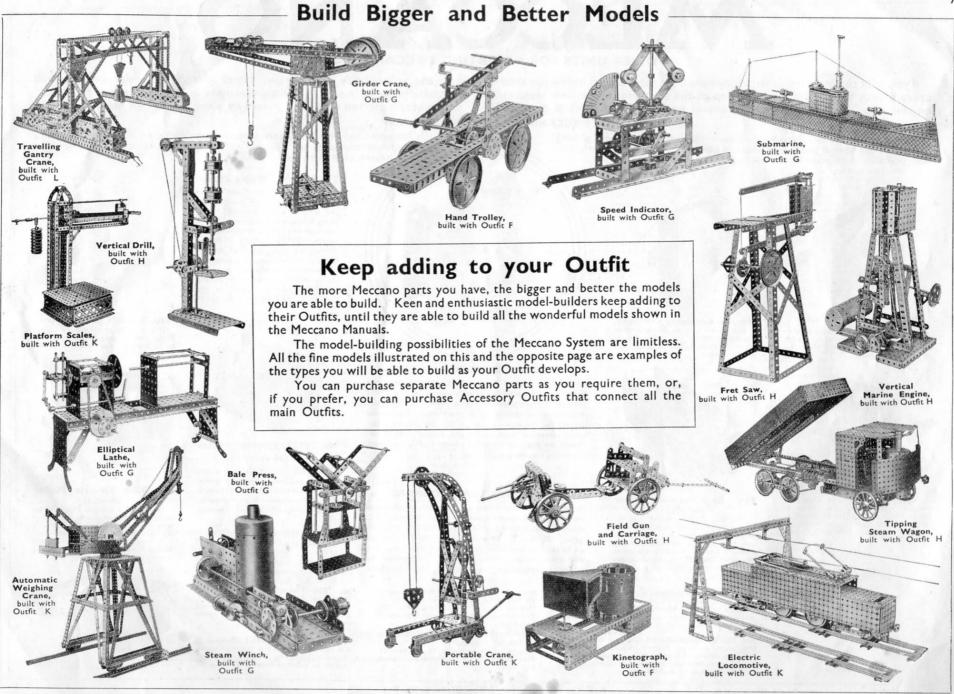






HOW TO CONTINUE

This completes our examples of models that can be made with MECCANO Outfit E (or D and Da). The next models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in an Ea Accessory Outfit, which can be obtained from any Meccano dealer.



MECCANO

POWER UNITS FOR OPERATING MECCANO MODELS

operate your models by means of one of the Meccano power units described on this page. You push over the control lever of the clockwork or electric

If you want to obtain the fullest enjoyment from the Meccano hobby you should motor and immediately your Crane, Motor Car, Ship Coaler or Windmill commences to work in exactly the same manner as its prototype in real life. Each motor is pierced with the standard Meccano equidistant holes.

Meccano Clockwork Motors are especially suitable for small models built with a

limited range of parts. They are extremely simple to operate and have the

MECCANO CLOCKWORK MOTORS

These are the finest Clockwork motors obtainable for model driving They have exceptional power and length of run and their gears are cut with such precision as to make them perfectly smooth and steady in operation.



No. I Clockwork Motor

An efficient and long-running Motor fitted with a brake lever by means of which it may be started and stopped. It is non-reversing



Electric Motor (6-volt)

This is a highly efficient motor (nonreversing) that will give excellent service. It can be operated through a 9-volt Meccano Transformer from the mains, providing that the supply is alternating current, or from a 6-volt accumulator

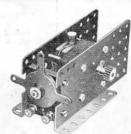


No. T20a Transformer



No. la Clockwork Motor

This Motor is more powerful than the No. 1 Motor and is fitted with reversing motion. It has brake and reverse levers.

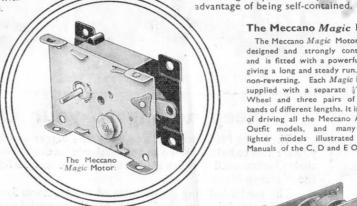


No. E6 Electric Motor (6-volt)

This fine motor is fitted with reversing motion and provided with stopping and starting controls. It can be operated through a 9-volt Meccano Transformer from the mains providing that the supply is alternating current, or from a 6-volt

No. T20A TRANSFORMER (Output 35 VA at 20/3 volts) for 20-volt Electric Motors. Has two separate circuits at 20 volts, one controlled by a 5-stud speed regulator; and a third circuit at 35 volts for lighting up to 14 lamps.

No. T6A TRANSFORMER (Output 40 VA at 9/3 volts) for 6-volt Electric Motors. Has two separate circuits at 9 volts, one controlled by a 5-stud speed regulator; and a third circuit at 31 volts for lighting up to 18 lamps.



MECCANO ELECTRIC MOTORS

The four Meccano Electric Motors shown here have been designed specially to provide smooth-running power units for the operation of Meccano models. Motors may be operated through a Meccano Transformer direct from the mains, providing that the supply is alternating current, or from a 6-volt accumulator. The 20-volt Motors are operated through a 20-volt Transformer from alternating current supply mains.

MECCANO TRANSFORMERS

There are six Transformers in the series, as described below, all of which are available for the following A.C. Supplies:-100/110 volts, 50 cycles; 200/225 volts, 50 cycles: 225/250 volts, 50 cycles. Any of the Transformers can be specially wound for supplies other than these at a small extra charge. When ordering a Transformer the voltage and frequency of the supply must always be stated.

> No. T20M TRANSFORMER (Output 20 VA at 20 volts) for 20-volt Electric Motors. This is similar to the No. T20 Transformer, but is not fitted with speed

No. T6M TRANSFORMER (Output 25 VA at 9 volts) for 6-volt Electric Motors. This is similar to the No. To Transformer, but is not fitted with speed

The Meccano Magic Motor

The Meccano Magic Motor is well designed and strongly constructed, and is fitted with a powerful spring giving a long and steady run. It is non-reversing. Each Magic Motor is supplied with a separate 1 Pulley Wheel and three pairs of driving bands of different lengths. It is capable of driving all the Meccano A and B Outfit models, and many of the lighter models illustrated in the Manuals of the C. D and E Outfits.



No. El20 Electric Motor (20-volt)

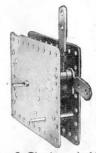
The E120 Electric Motor is a very reliable and smooth-running power unit. It is operated through a Meccano 20-volt Transformer from alternating current supply mains. Non-reversing.

Resistance Controllers

These Controllers enable the speed of Meccano 6-volt and 20-volt Motors and Hornby 6-volt and 20-volt Electric Trains to be regulated as desired.

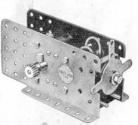
No. T20 TRANSFORMER (Output 20 VA at 20 volts) for 20-volt Electric Motors. Provided with one 20-volt circuit controlled by a 5-stud speed

No. T6 TRANSFORMER (Output 25 VA at 9 volts) for 6-volt Electric Motors. Provided with one 9-volt circuit controlled by a 5-stud speed regulator.



No. 2 Clockwork Motor This is a Motor of super quality.

Brake and reverse levers enable it to be started, stopped or reversed,



No. E20b Electric Motor (20-volt)

This 20-volt Electric Motor is an extremely efficient power unit, fitted with reversing motion and provided with stopping and starting controls. It is operated through a Meccano 20-volt Transformer from alternating current supply mains.



No. T20 Transformer

LIST OF MECCANO PARTS

No.	Description.	No. Description.	No.	Description.	No.	Description.	Ne. Description.	
1 1 a 1 b 2 2 a 3 4 4 5 6 6 a 7 7 7 a 8 8 a 8 b 9 9 c 9 9 f 11 1 1 2 a 1 2 b 1 6 a 1 6 b 1 7 a 1 8 b 1 9 a 1 9 a 1 2 b 1 6 a 1 6 b 1 7 a 1 8 b 1 9 a 2 0 b 1 9 c 2 a 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3	Perforated Strips, 12 3" "	28 Contrate Wheels, 1½ diam	73 F 76 77 78 5 79 79 80 80 80 80 80 81 82 89 50 89 89 89 89 89 89 89 89 89 89 89 89 89	Flat Plates, 3" × 1½"	1200 1201 1212 1213 124 125 126 126 126 127 127 127 127 127 127 127 127 127 127	Buffers Spring Buffers Compression Springs Train Couplings Miniature Loaded Sacks Cone Pulley Meversed Angle Brackets, 1" Trunnions Flat Trunnions Simple Bell Cranks Boss Boss Boss Boss Boss Boss Boss Bos	164 Chimney Adaptors	
22a 22a 23 24 25 25a	1" without & grub screw 1" without	63 Couplings	109 110 110a 111 111a	Face Plates, 2½" diam Rack Strips, 3½"	154b 155 156 157	hand)	205 , Glasses (Green, Plain or Red)	
	", ", ½" ", ¼" ", ", ½" ", ½" ", ", ½" ", ¼" ", ", ½" ", ¼" ", "Gear Wheels 50 teeth to gear with ¾" pinion	67 , 25 ,	113 114 115 116	Girder Frames	158b 160 161 162	Channel Bearings, $1\frac{1}{2}$ " \times 1 " \times $\frac{1}{2}$ " Gírder Brackets, 2 " \times 1 " \times $\frac{1}{2}$ " Boiler, complete, with ends ends	210 Nuts 211a Helical Gear, $\frac{1}{2}$ (Can only be 211b $1\frac{1}{2}$ (used together) * * *	
27a 27b 27c	57	70 Flat Plates, $5\frac{1}{2}" \times 2\frac{1}{2}"$ 72 ,, $2\frac{1}{2}" \times 2\frac{1}{2}"$	117	Steel Balls, 3" diam Hub Discs, 5½"	162b	Sleeve Pieces	correct designs and colours of leading shipping companies.	

MECCANO PARTS & ACCESSORIES PLATES. JOD 154⁴& 154⁸ (00000000 103° 00 = D 0 C $\supset \circ \circ$ (0000000) 133^ WHEELS, GEARS, PULLEYS, ETC. 147 & 148 116[^] 26^B 95^B Congress of 30⁴& 30° 20^B 165 211^A & 211^B **MISCELLANEOUS** 02.48 120^B 34B 58^B 158% C 147⁸ 66 & 67

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