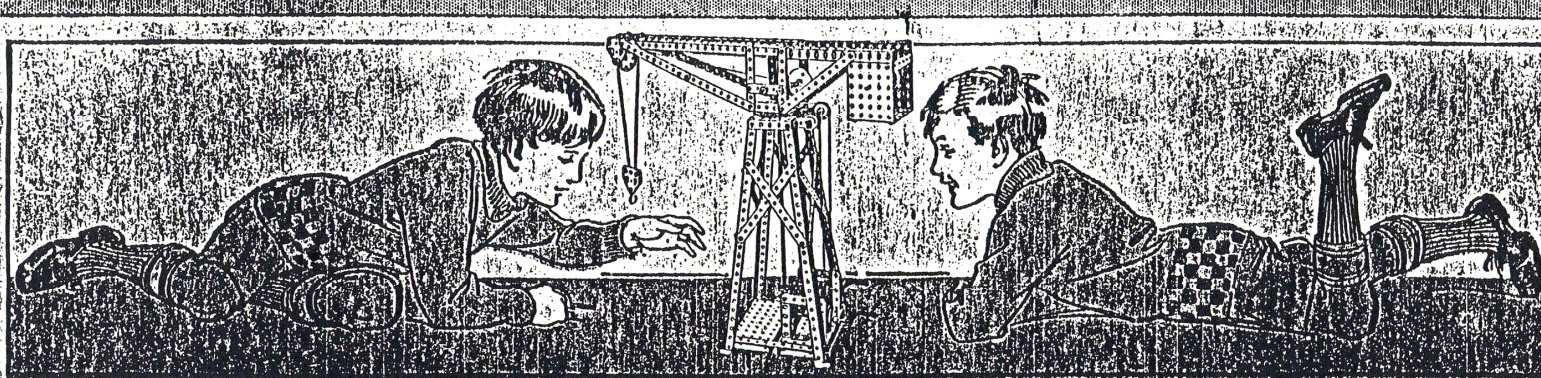


MECCANO (AMERICA) GILBERT ERA (a) 1

U.S.A.

NAME	MECCANO		
TYPE	Mechanical Engineering		
HOLE DIAMETER	4.2mm	HOLE SPACING	12.7mm (½")
SETS IN SYSTEM	Total of 7 : 1, 3, 5, 110, 115, 125, 150. (See Meccano America Introduction for names of the sets) In 1932, the 110 & 115 sets were renumbered 10 & 15 respectively. Also Meccano Building Blocks/Meccano Brik and Meccano Tool Chests.		
DIFFERENT PARTS	203		
COLOUR	Red, green, black and tinplate with some nickel plate		
FIXING METHOD	8-32 Nut and Bolt. 6-32 on bosses (Same as Erector)		
MOTORS	3 Electric. E2A, E2B, E3		
PERIOD	1930 to 1933		
MANUFACTURER	The Meccano Company of America Inc., New Haven, Connecticut, USA.		
COMMENTS	<p>This is the MECCANO-ERECTOR system. There were a large number of ERECTOR parts re-numbered as MECCANO parts and included in the system. They were manufactured at AC Gilberts Erector factory, the Meccano Elizabeth factory was closed in 1930.</p> <p>The Hubs on Pulleys, Gears and such were changed to ERECTOR Hubs, with a 6/32 thread and set screw. Also included were a variety of new parts, such as the BOAT parts, also a unique 1" (25mm) pulley, which was formed from one metal disc.</p> <p>Sets 1, 3, 5, 110, 115, 125, 150 sets were similar to the 1929 0,10, 20,40, 50, 60, 70 sets respectively. The 125 and 150 sets were discontinued in 1932.</p> <p>The four larger sets were packed in green wood boxes.</p>		
OTHER SYSTEMS	12/316, 13/361, 14/386, 19/546, 20/586, 21/619, 22/642, 22/652, 23/683, 24/685, 24/706, 27/788, 30/876A,		
NEWSLETTER	30/890, 49/1487		
MATERIAL SUPPLIED BY	Clyde T. Suttle and updated by articles in OSN		



MECCANO

(TRADE MARK REG. U.S. PAT. OFF.)

MANUAL OF INSTRUCTIONS

This outfit will build scores of other fine models in addition to those illustrated. There is no limit.

The MECCANO COMPANY of America, Inc.
NEW HAVEN, CONN., U. S. A.

M 1363
Printed in U.S.A.

AMERICAN MECCANO SEPARATE PARTS (circa 1930)

No.	Description
I	12 $\frac{1}{2}$ " Beam
IA	9 $\frac{1}{2}$ " "
IB	7 $\frac{1}{2}$ " "
2	5 $\frac{1}{2}$ " "
2A	4 $\frac{1}{2}$ " "
3	3 $\frac{1}{2}$ " "
4	3" "
5	2 $\frac{1}{2}$ " "
6	2" "
6A	1 $\frac{1}{2}$ " "
7	24 $\frac{1}{2}$ " Angle girders
7A	18 $\frac{1}{2}$ " " "
8	12 $\frac{1}{2}$ " " "
8A	9 $\frac{1}{2}$ " " "
8B	7 $\frac{1}{2}$ " " "
9	5 $\frac{1}{2}$ " " "
9A	4 $\frac{1}{2}$ " " "
9B	3 $\frac{1}{2}$ " " "
9C	3" " "
9D	2 $\frac{1}{2}$ " " "
9E	2" " "
9F	1 $\frac{1}{2}$ " " "
IO	Flat bracket
II	Double bracket
I2	$\frac{1}{2}$ "x $\frac{1}{2}$ " Angle bracket
I2A	1"x 1" " "
I2B	1"x 1 $\frac{1}{2}$ " " "
I2	12" Axle rod
I3A	8" " "
I3B	19 3/4" Axle rod
I3C	10" Axle rod
I4	7" " "
I4A	6" " "
I5	5" " "
I6	4" " "
I6A	3" " "
I7	2" " "
I8B	1" " "

I9S	Crank
I9A	3" wheel with set screw
20	1 1/8" Flanged wheel
20B	3/4" " "
I9B	3" Pulley wheel with set screw
I9C	6" " " " " "
2I	1 1/4" " " " " "
22	1" " " " " "
22A	1" " without set screw
23	$\frac{1}{2}$ " " " " " "
24	Bush wheel
24A	" " for 1/4" axle
25C	18 tooth gear
26C	I2 " "
27	72 " "
27C	36 " "
28C	Crown gear
30	Bevel gear 7/8" dia. 36 teeth
30A	" " 1/2" " I6 "
30C	" " 1 $\frac{1}{2}$ " " 48 "
	Can only be used together
30D	Mitre gear
32C	Worm gear
34	Wrench
36	Screwdriver - wire handle
36A	" - wooden handle
37A	Nuts
37B	1/4" screws
38	Washers
38A	Gasket washer
40	Hank of string
4I	Propeller blade
43	Spring
44	Cranked bent strip
45	Double " "
46	2 $\frac{1}{2}$ x $\frac{1}{2}$ " Double angle strip
47	2 $\frac{1}{2}$ "x 1 $\frac{1}{2}$ " " " "
47A	3" x 1 $\frac{1}{2}$ " " " "
48	1 $\frac{1}{2}$ "x $\frac{1}{2}$ " " " "
48C	4 $\frac{1}{2}$ "x $\frac{1}{2}$ " " " "
50A	Eye piece with hub

52	5 $\frac{1}{2}$ " 2 $\frac{1}{2}$ " perforated flanged plate
52A	5 $\frac{1}{2}$ " 3 $\frac{1}{2}$ " " " "
52B	16 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " Per. flanged plate
53	3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " " " "
53A	4 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " " " "
54	Perforated flanged sector plate
55	5 $\frac{1}{2}$ " slotted strip
55A	2 $\frac{1}{2}$ " " "
57	Small hook
57C	Large hook
59	Collars with set screw
59A	Collars formed
59B	Twin collar
62	Eccentric crank
63	Coupling
63B	Slotted coupling
68	5/8" R.H. wood screws
70	5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " Flat plate
76	2 $\frac{1}{2}$ " Triangular plate
77	1" " "
89	5 $\frac{1}{2}$ " Curved beam 10" radius
89A	3" " " 1 3/4" radius
90	2 $\frac{1}{2}$ " " " 2 3/8" radius
90A	2 $\frac{1}{2}$ " " " 1 3/8" radius

Total of IO2 parts.

The similarity between the numbering and that of the Meccano system should be noted. Apart from a few differences it is almost the same.

See reference to several unusual parts on opposite page.

The curved beams were the lattice type as in the Erector system.

MECCANO (AMERICA) GILBERT ERA (a) 3b

AMERICAN MECCANO SEPARATE PARTS (circa 1930) - continued from overleaf.

No.	Description	
94	Sprocket chain 22" length	I35 I80 degree dial
94A	" " IO feet length	I35A 360 " "
98	2½" braced girder	I36 Handrail support
99	I2½" " "	I37 Wheel flange
I00	5½" " "	I38A Ship funnel
I00B	6" curved beam girder	I39 Flanged bracket, right
I02	U bent strip	I39A " " , left
I03	5½" Flat girder	I42B 3" rubber tire
I03A	9½" " "	I43 5½" dia. circular girder
I03B	I2½" " "	I45 7" " " beam
I03C	4½" " "	I46 6" " " plate
I03D	3½" " "	I47A Pawl
I03E	3" " "	I48 Ratchet wheel
I03F	2½" " "	I50 Crane grab
I03G	2" " "	I5I Pulley block
I03H	I½" " "	I54A Corner angle bracket ½" right
I03K	7½" " "	I54B " " " ½" left
I08	Corner brace	I56 Pointer
I09	2½" Face plate	I58A Signal arm
II0	Rack	I60 I½" x I" x ½" Channel bearing
III	7/8" screw	I62 Boiler complete with ends
IIIA	I/2" " "	I62B Radiator
IIIC	I 3/8" screw	I63 Chimney
IIID	I 3/4" " "	I64 " adaptor
II3	Girder frames	I65 Swivel bearing
II4	Hinge loop	I67 Geared roller bearing complete
II6	Fork piece large	I67A " " race I92 teeth
II6A	" " small	I67B Ring frame for rollers
II8	5½" dia, Hub disc	I67C Pinion for roller bearing I6 teeth
II9	Channel segment 8 to circle II½"	I68 Ball bearing 4" dia.
I23	Cone pulley	I68A " races, flanged disc
I24	I" reversed angle bracket	I68B " " , toothed disc
I25	½" " " "	I68C " casings with balls
I26	Trunnion	I69 Digger bucket
I26A	Flat trunnion	I69A Tip bucket
I27	Simple bell crank	
I28	Bell crank with hub	
I29	Quarter gear	
I30	Triple throw eccentric	
I3I	Chain bucket	
I33	Corner bracket	
I35	I80 degree dial	

NOTES ON ABOVE

Parts 94 and 94A are differing lengths of chain as Liverpool pattern.

No sprocket wheels however, are included as in similar UK manuals of 1920.

Parts 98 and I00 are braced girders in a different pattern to Meccano. Both continued their existence later as Erector parts BI and BJ.

Parts I02 and I03 and I03K disappeared the latter being replaced by Erector girders.

Part I08 also disappeared as new and unusual angle pieces were introduced into the Erector system.

Part I09 Liverpool pattern was replaced by Erector part PI8 called round plate

Bolts were called screws.

Parts II3 and II9 disappeared in the Erector range. But Part I23 Cone pulley was redesignated FM as Erector.

Parts I24 and I26A all disappeared in the Erector range, although they were functionally replaced by Erector parts P59 Car truck piece and Part BS Flat Ar truck.

Parts I27, I28 and I30 disappeared in the Erector range, but Part I29 continued as Part FX- Quarter gear to replace the rack segment.

An analysis of these parts is shown later in simple reference form.

MECCANO (AMERICA) GILBERT ERA (a) 3c

AMERICAN MECCANO SEPARATE PARTS (circa 1930) This is a continuation of the previous lists commencing at No.I.

No. Description

I72 Hull
I72A Bow deck
I72B Mid deck
I72C Stern deck
I72D Cabin top
I72E Rudder
I72F Keel
I72G Ballast keel
I72H Rudder and propeller quill
I72I Quill Nut
I72J Propeller
I72K Forward deck
I72L Pilot house top
I74 Loop rod

Parts above from I72 to I74 are ship building parts all included in outfit No.II5 Ship Building Outfit.

None of the above were Liverpool Meccano parts or patterns.

20 Ship models could be built, the hulls were watertight and the models would float and travel under their own power, driven by the E-2-B Electric motor.

The SHIP BUILDING OUTFIT No.II5 was supplied in a stout box 25½" x 10 3/4" x 5½" deep (65 x 27 x 14 cm).

Motors and hoisting units.

No. Description

I73R Gear box side plate, right
I73L " " " " , left
I75 5 foot elastic band
I76 Foot block
I77 Reverse switch attachment
E2B Motor with gear box side plates
E2A " separate
E3 IIOv Motor
P66 Disc Clutch power hoist
P60D Transformer
P57M Motor

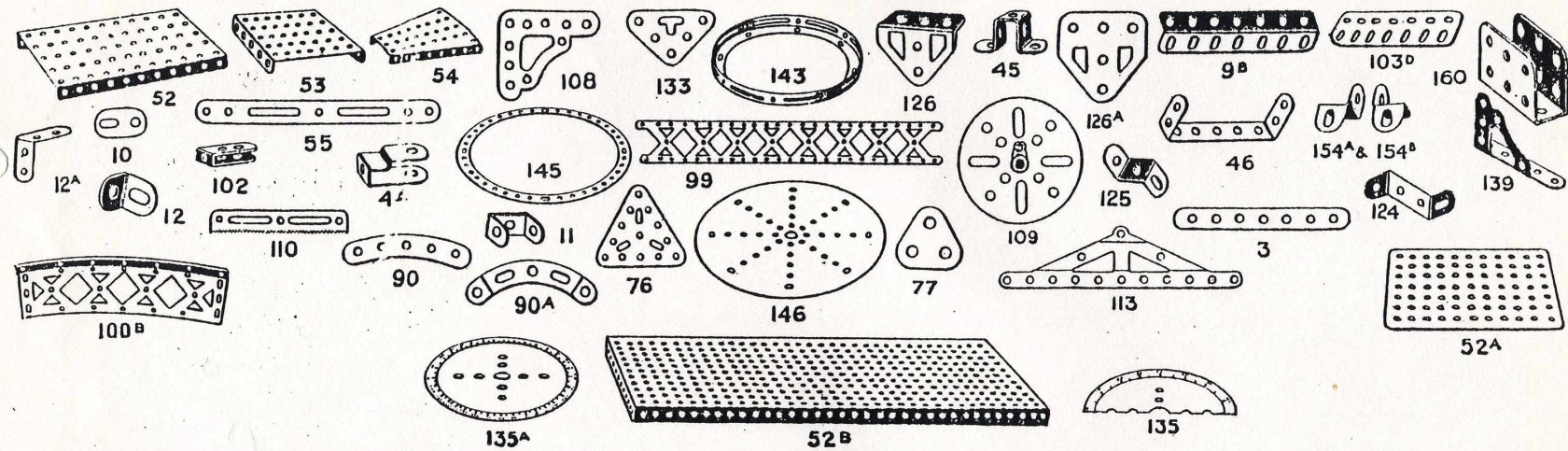
The above is the total of hoisting and Motor units from the American Meccano Company manual of 1930.

Comparision lists and other extra information by F.A.Beadle.

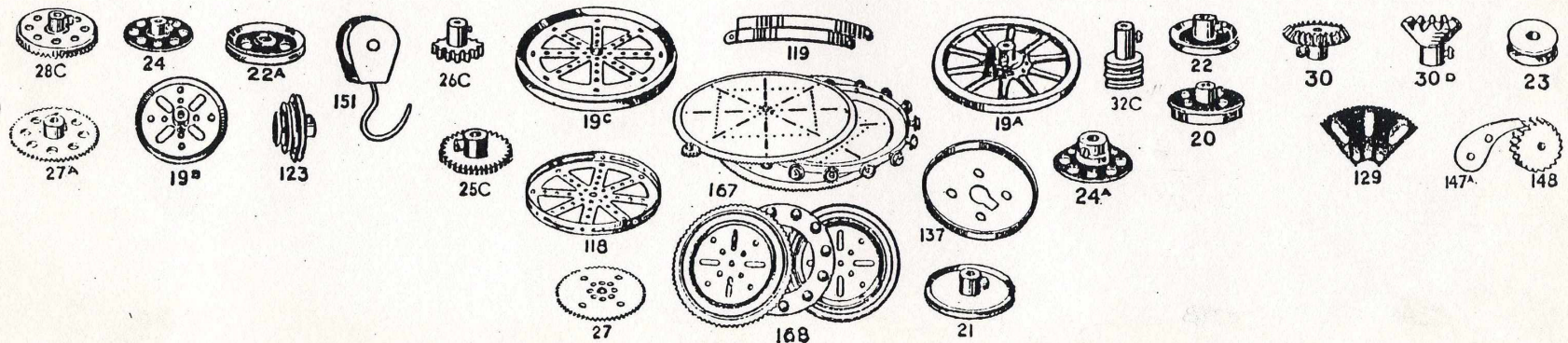
MECCANO SEPARATE PARTS PRICES

Number	Name of Part	Price	Number	Name of Part	Price	Number	Name of Part	Price	Number	Name of Part	Price
1	12-1/2 inch Beams.....	.30 - 1/2 doz.	21	Bush Wheel.....	.15 each	00A	2-1/2" Curved Beams 1-3/4" Radius.....	.25 - 1/2 doz.	147A	Pawl.....	.00 each
1B	0-1/2 " ".....	.25 - 1/2 doz.	21A	Bush Wheel for 1/4 inch axle.....	.25 each	04	Sprocket Chain, 22" length.....	.15 ft.	148	Ratchet Wheel.....	.30 each
2	0-1/2 " ".....	.20 - 1/2 doz.	25C	18 tooth Gear.....	.15 each	04A	Sprocket Chain, 10" length.....	.15 ft.	150	Crane Grab.....	.25 each
2A	4-1/2 " ".....	.15 - 1/2 doz.	26C	12 tooth Gear.....	.10 each	08	2-1/2" Braced Girder.....	.15 - 1/2 doz.	151	Pulley Block.....	.15 each
3	3-1/2 " ".....	.10 - 1/2 doz.	27C	72 tooth Gear.....	.30 each	00	12-1/2" Braced Girder, Straight.....	.75 - 1/2 doz.	154A	Cor. Angle Bracket—1/2" R.....	.25 - 1/2 doz.
4	3 " ".....	.08 - 1/2 doz.	27C	36 tooth Gear.....	.20 each	100	5-1/2" Braced Girder.....	.50 - 1/2 doz.	154B	Cor. Angle Bracket—1/2" L.....	.25 - 1/2 doz.
5	2-1/2 " ".....	.06 - 1/2 doz.	28C	Crown Gear.....	.30 each	100B	6" Curved Beam Girder.....	.75 - 1/2 doz.	156	Pointer.....	.10 each
6	2 " ".....	.06 - 1/2 doz.	30	Bevel gear 7/8" dia. 20 teeth.....	.30 each	102	U Bent Strip.....	.05 each	158A	Signal Arm.....	.10 each
6A	1-1/2 " ".....	.06 - 1/2 doz.	30A	Bevel gear 1/2" dia. 16 teeth*.....	.25 each	103	5-1/2" Flat Girder.....	.25 - 1/2 doz.	160	1-1/2"x1"x1/2" Channel Brng.....	.15 each
7	21-1/2 " " Angle Girders.....	.25 each	30C	Bevel gear 1 1/4" dia. 48 teeth*.....	.65 each	103A	0-1/2" " ".....	.35 - 1/2 doz.	162	Boiler, com. with ends.....	.50 each
7A	18-1/2 " " ".....	.20 each		*Can only be used together.....		103B	12-1/2" " ".....	.40 - 1/2 doz.	162A	Boiler Ends.....	.15 each
8	12-1/2 " " ".....	.50 - 1/2 doz.	30D	Mitre Gear.....	.20 each	103C	4-1/2" " ".....	.25 - 1/2 doz.	162B	Radiator.....	.30 each
8A	0-1/2 " " ".....	.45 - 1/2 doz.	82C	Worm Gear.....	.20 each	103D	3-1/2" " ".....	.25 - 1/2 doz.	163	Chimney.....	.12 each
8B	7-1/2 " " ".....	.40 - 1/2 doz.	34	Wrench.....	.05 each	103E	3" " ".....	.20 - 1/2 doz.	164	Chimney Adaptor.....	.12 each
9	5-1/2 " " ".....	.35 - 1/2 doz.	36	Screw Driver—wire handle.....	.10 each	103F	2-1/2" " ".....	.20 - 1/2 doz.	165	Swivel Bearing.....	.25 each
9A	4-1/2 " " ".....	.30 - 1/2 doz.	36A	Screw Driver—wooden handle.....	.25 each	103G	2" " ".....	.15 - 1/2 doz.	167	Geared Roller Bearing, com.....	12 69 each
9B	3-1/2 " " ".....	.30 - 1/2 doz.	37A	Nuts.....	.05 per doz.	103H	1-1/2" " ".....	.15 - 1/2 doz.	167A	Grd Roller Races, 102 teeth.....	3 00 each
9C	3 " " ".....	.30 - 1/2 doz.	37B	1/4 inch screws.....	.10 per doz.	103I	7-1/2" " ".....	.30 - 1/2 doz.	167B	Ring Frame for Rollers.....	2 00 each
9D	2-1/2 " " ".....	.25 - 1/2 doz.	38	Washers.....	.05 per doz.	108	Corner Brace.....	.07 each	167C	Pinon for Rollr Brng, 16 teeth.....	.75 each
9E	2 " " ".....	.25 - 1/2 doz.	38A	Gasket Washer.....	.05 for 2	108	2-1/2" Face Plate.....	.15 each	168	Ball Bearing 4 in. dia.....	3 00 each
9F	1-1/2 " " ".....	.25 - 1/2 doz.	40	Hank of String.....	.05 each	110	Rack.....	.25 each	168A	Ball Races, Flanged disc.....	.50 each
10	Flat Bracket.....	.05 - 1/2 doz.	41	Propeller Blade.....	.05 each	111	1/2 inch screw.....	.02 each	168B	Ball Races, Toothed disc.....	.75 each
11	Double Bracket.....	.03 each	43	Spring.....	.05 each	111A	1 1/2 inch screw.....	.03 for 2	168C	Ball Casings with Balls.....	1 75 each
12	1/2"x1/2" Angle Bracket.....	.10 doz.	44	Cranked Bent Strips.....	.03 each	111C	1-3/4 inch screw.....	.20 doz.	169	Digger Bucket.....	.75 each
12A	1"x1" Angle Bracket.....	.15 - 1/2 doz.	45	Double Bent Strip.....	.03 each	111D	1-3/4 inch screw.....	.25 doz.	169A	Tip Bucket.....	2 50 each
12B	1"x1-1/2" Angle Bracket.....	.10 - 1/2 doz.	46	2-1/2"x1-1/2" Double Angle Strip.....	.20 - 1/2 doz.	113	Girder Frames.....	.10 each	172	Hull.....	1 75 each
13	12 inch Axle Rod.....	.12 each	47	2-1/2"x1-1/2" Double Angle Strip.....	.30 - 1/2 doz.	113	Hinge Loop.....	.05 for 2	172A	Bow Deck.....	.15 each
13A	8 inch Axle Rod.....	.08 each	47A	3"x1-1/2" Double Angle Strip.....	.35 - 1/2 doz.	114	Fork Piece, Large.....	.10 each	172B	Mid Deck.....	.30 each
13B	10-3/4 inch Axle Rod.....	.20 each	48	1 1/2"x1-1/2" Double Angle Strip.....	.15 - 1/2 doz.	116	Fork Piece, Small.....	.10 each	172C	Stern Deck.....	.15 each
13C	10 inch Axle Rod.....	.10 each	48C	4-1/2"x1-1/2" Double Angle Strip.....	.30 - 1/2 doz.	116A	5-1/2" dia. Hub disc.....	.50 each	172D	Cabin Top.....	.20 each
14	7 " " ".....	.07 each	50A	Eye Piece with hub.....	.15 each	118	Channel Segment 8 to a circle 11-1/2" dia.....	.15 each	172E	Rudder.....	.20 each
14A	6 " " ".....	.00 each	52	5 1/2"x2 1/2" Per. Flanged Plate.....	.20 each	119	Cone Pulley.....	.50 each	172F	Keel.....	.15 each
15	5 " " ".....	.05 each	52A	5-1/2"x3 1/4" Flat Plate.....	.20 each	123	1 inch Rev. Angle Bracket.....	.15 - 1/2 doz.	172G	Ballast Keel.....	.10 each
16	4 " " ".....	.04 each	52B	16-1/2"x5-1/2" Per. Flngd Plate.....	1.00 each	124	1/2 inch Rev. Angle Bracket.....	.10 - 1/2 doz.	172H	Rudder & Prop. Quill.....	.10 each
16A	3 " " ".....	.03 each	53	3-1/2"x2-1/2" Per. Flngd Plate.....	.15 each	125	Trunnion.....	.08 each	172I	Quill Nut.....	.05 each
17	2 " " ".....	.02 each	53A	4-1/2"x2-1/2" Flat Plate.....	.12 each	126	Flat Trunnion.....	.05 each	172J	Propeller.....	.20 each
17A	1 " " ".....	.01 each	54	Perf. Flanged Sector Plate.....	.15 each	126A	Simple Bell Crank.....	.05 each	172K	Forward Deck.....	.15 each
18B	1 " " ".....	.01 each	55	5-1/2" Slotted Strip.....	.05 each	127	Bell Crank with Hub.....	.10 each	172L	Pilot House Top.....	.05 each
19S	Crank.....	.10 each	55A	2-1/2" Slotted Strip.....	.03 each	128	Quarter Gear.....	.15 each	173R	Gear Box Side Plate, R.....	.15 each
19A	3 inch Wheel with set screw.....	.45 each	57	Small Hook.....	.15 doz.	129	Triple Throw Eccentric.....	.40 each	173L	Gear Box Side Plate L.....	.15 each
20A	1-1/2" Flanged Wheel.....	.20 each	57C	Large Hook.....	.25 doz.	130	Chain Bucket.....	.15 each	174	Loop Rod.....	.05 each
20B	3/4 inch Flanged Wheel.....	.15 each	59	Collars with set screw.....	.05 each	131	Corner Bracket.....	.05 each	175	5 ft. Elastic Band.....	.30 each
19B	3 inch Pulley Wheel with set screw.....	.25 each	59A	Collars, formed.....	.25 doz.	135	180 degree dial.....	.15 each	176	Foot Block.....	.15 each
19C	6 inch Pulley Wheel with set screw.....	1.00 each	59B	Twin Collar.....	.35 doz.	135A	360 degree dial.....	.25 each	177	Reverse Switch Attachment.....	.50 each
21	1-1/2 inch Pulley Wheel with set screw.....	.10 each	62	Eccentric Crank.....	.10 each	136	Handrail support.....	.15 each	E2B	Motor with GrBx Side Plates.....	2 00 each
22	1 inch Pulley Wheel with set screw.....	.10 each	63	Coupling.....	.15 each	137	Wheel Flange.....	.15 each	E2A	Motor separate.....	1 25 each
22A	1 inch Pulley Wheel without set screw.....	.05 each	63B	Slotted Coupling.....	.15 each	138A	Ship Funnel.....	.25 each	E3	110 volt motor.....	5 00 each
23	1/2 inch Pulley Wheel without set screw.....	.05 each	69	3/8" R. H. Wood Screws.....	.10 doz.	139	Flanged Bracket, right.....	.10 each	P00	Disc Clutch Power Hoist.....	12 50 each
			70	6-3/8"x2-1/2" Flat Plate.....	.15 each	139A	Flanged Bracket, left.....	.10 each	P00D	Transformer.....	3 50 each
			76	2-1/2" Triangular Plate.....	.05 each	142B	3 in. Rubber Tire.....	.75 for 4			
			77	1" Triangular Plate.....	.04 each	143	5-1/2 inch dia. Cir. Girder.....	.55 each			
			89	5-1/2" Curved Beam 10" Radius.....	.05 each	145	7 inch dia. circular beam.....	.50 each			
			89A	3" Crvd Beams 1-3/4" Radius.....	.05 each	146	6" dia. Circular Plate.....	.60 each			
			90	2 1/4" Curved Beams 2-3/4" Radius.....	.25 - 1/2 doz.						

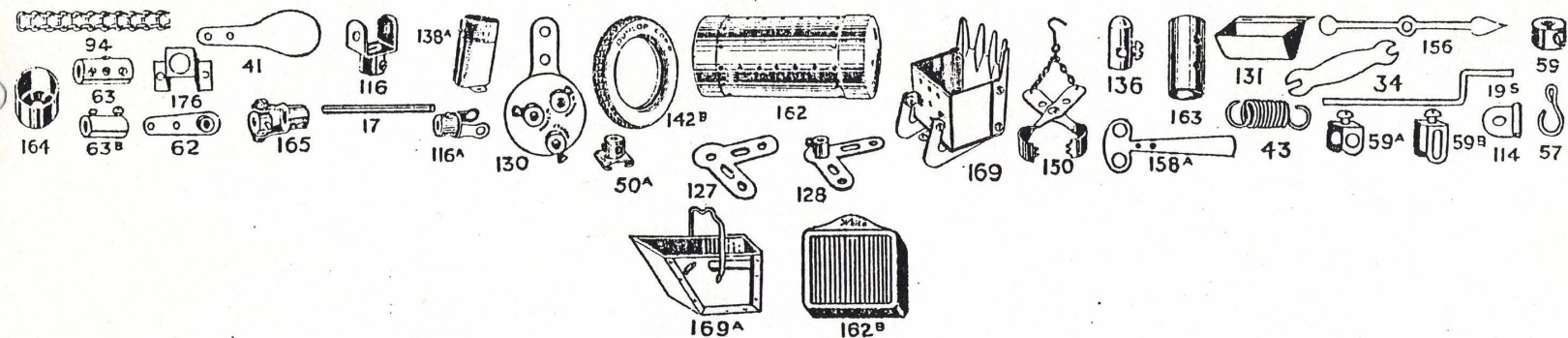
PLATES, STRIPS, GIRDERS AND BRACKETS



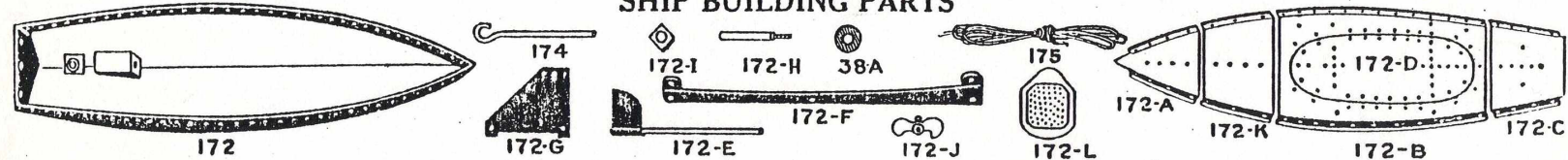
WHEELS, PULLEYS, GEARS, ETC.



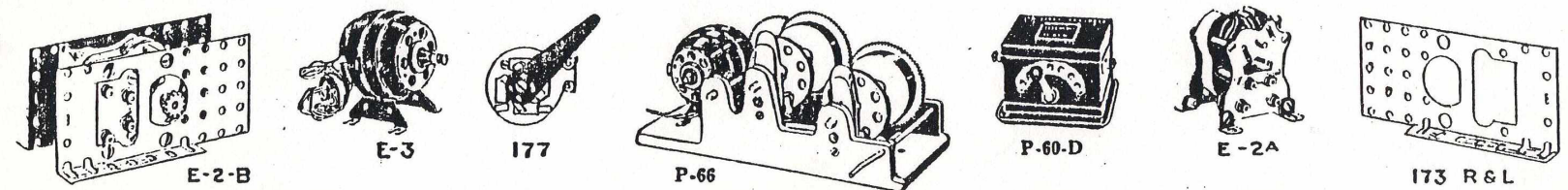
RODS, CRANKS, COUPLINGS, AND MISCELLANEOUS



SHIP BUILDING PARTS



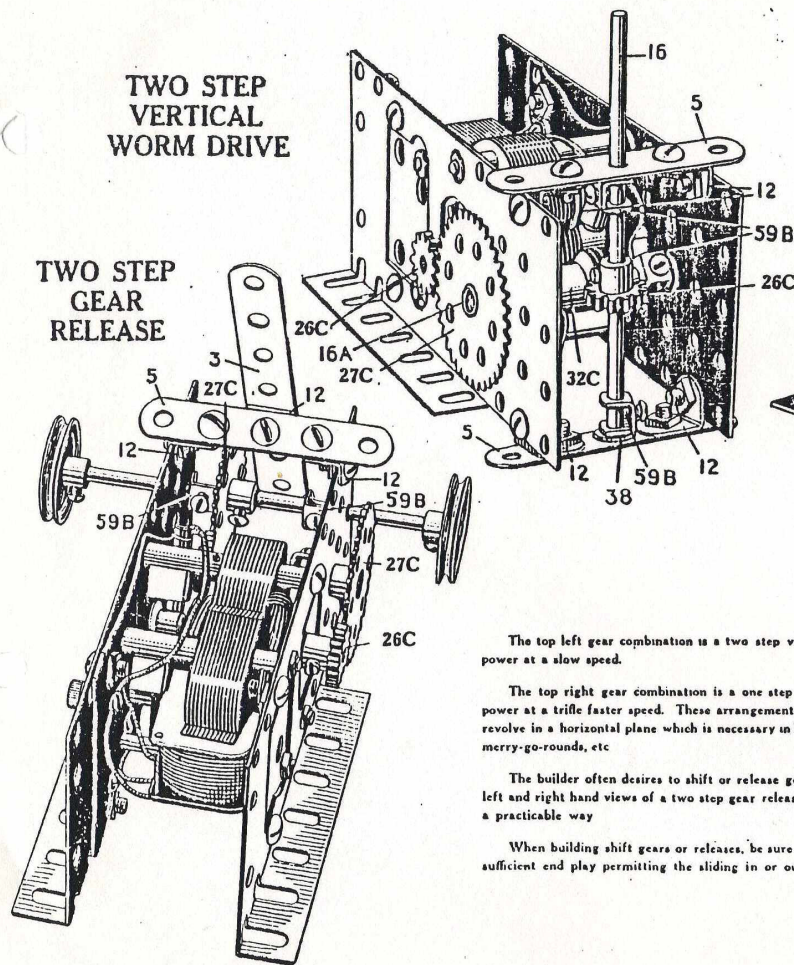
MOTORS AND HOISTING UNITS



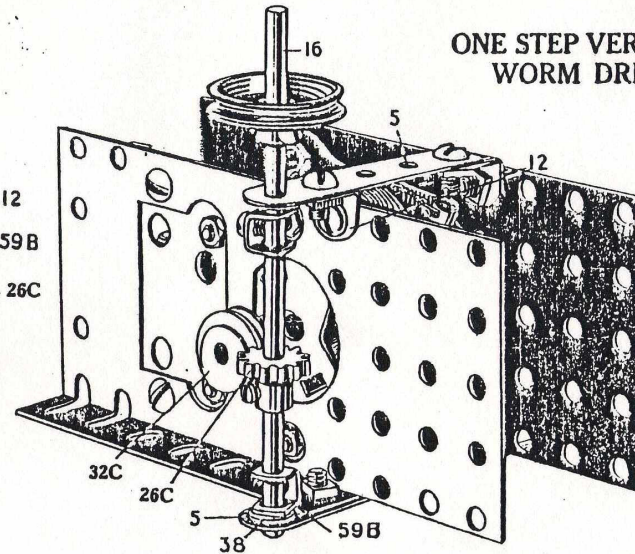
GEAR COMBINATIONS

TWO STEP
VERTICAL
WORM DRIVE

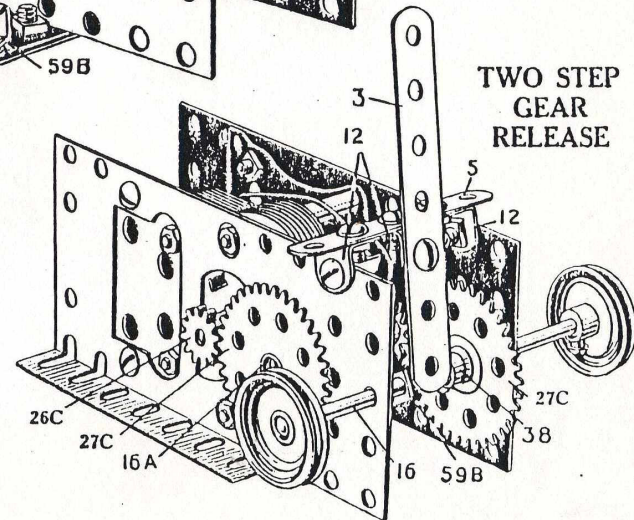
TWO STEP
GEAR
RELEASE



ONE STEP VERTICAL
WORM DRIVE



TWO STEP
GEAR
RELEASE



The top left gear combination is a two step vertical worm drive delivering great power at a slow speed.

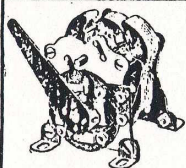
The top right gear combination is a one step vertical drive delivering a little less power at a trifle faster speed. These arrangements of drives allow a rotating body to revolve in a horizontal plane which is necessary in building of turn tables, draw bridges merry-go-rounds, etc

The builder often desires to shift or release gears by operating a lever, the lower left and right hand views of a two step gear release illustrates this accomplishment in a practicable way

When building shift gears or releases, be sure to adjust collars on axle rods leaving sufficient end play permitting the sliding in or out of mesh.

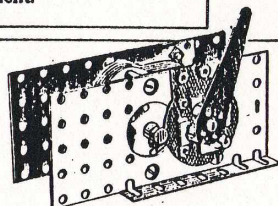
POWER FACTORS AND FEATURES

Leaving off gear box side plates and putting on four angle brackets No. 12 for leg supports makes it possible to use this motor as an independent motor for driving models and mechanisms by string or sprocket chain.

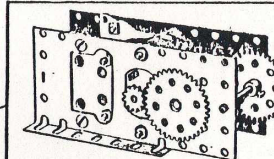


Independent motor with reverse switch attachment. Easily mounted without wiring. Start, stop and reverse your models with this clever attachment.

Gear box combinations are more interesting and useful with the reverse switch attachment. Marvelous feature for models requiring hauling, hoisting or lowering movements. Easily mounted without wiring or electrical knowledge.

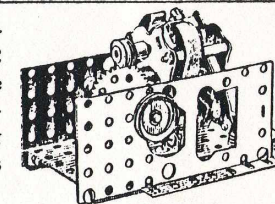


The reverse switch attachment requires no complicated wiring. Mounts directly on terminal screws, making the switch a part of the motor. The switch lever can be operated in four positions. A slight movement of lever starts, stops or reverses. This attachment not furnished with any set but can be purchased separately complete with instructions for mounting.

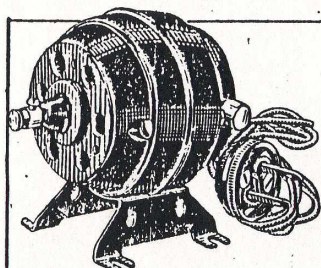


Motor comes to you mounted between gear box side plates by which you are able to obtain numerous gearing combinations of either high or low speeds. Plates and gears can easily be changed to meet your requirements.

Mounting motor on perforated flanged plates No. 52 and fastening gear box side plates on as illustrated, affords a means of obtaining a powerful unit of various speeds.

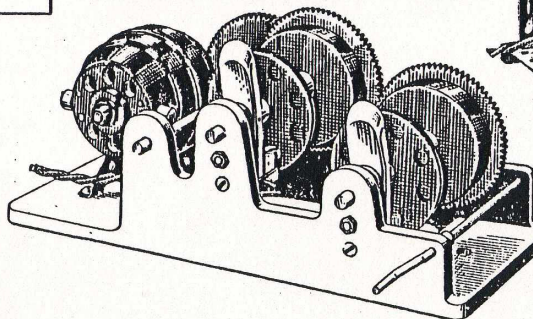


The powerful 110 volt motor mounted on perforated flanged plate No. 52 with gear box side plates fastened on as shown permits various worm drive combinations. A heavy duty feature.



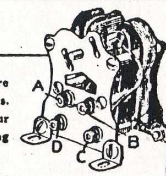
This motor is furnished with sets No. 125 and No. 150 only but can be purchased separately.

The powerful 110 volt motor can be used independently or with gear box combination. Has proper leg spacing to conform with spacings of holes in all beams, girders and plates. This motor is run directly from 110 volt AC or DC house current without the use of transformers or current reducers.



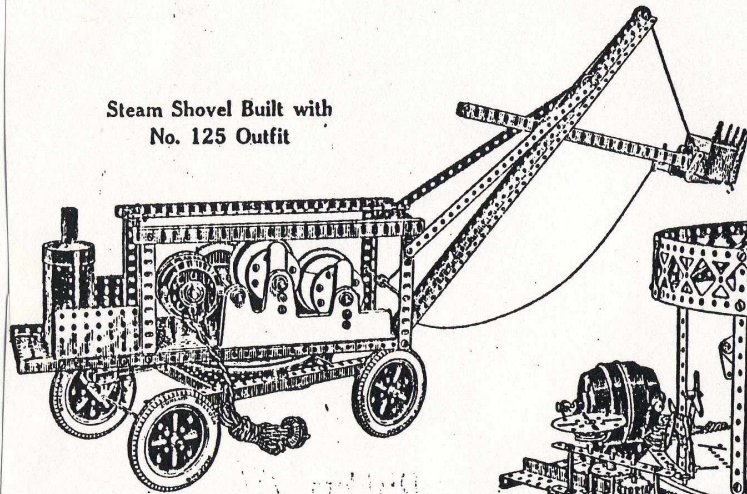
The disc clutch power hoist. A very strong and well constructed hoisting unit complete in itself. Attractively finished in red, black and nickel trim. This unit is an indispensable accessory by itself or on models where hoisting or hauling units are required, such as steam shovels, derricks, elevators and many others. The two drums make this machine capable of operating a clam shell bucket with perfection. There is no end of the many uses to which the disc clutch power hoist can be put. The disc clutch power hoist is furnished in sets No. 125 and No. 150 only but can be purchased separately.

Motors are assembled with jumper wire across A and B, leaving C and D for feed wires. Should you want to reverse the direction of your motor, change jumper wire to B and C, leaving A and D to which connect feed wires.

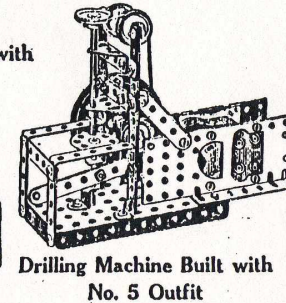
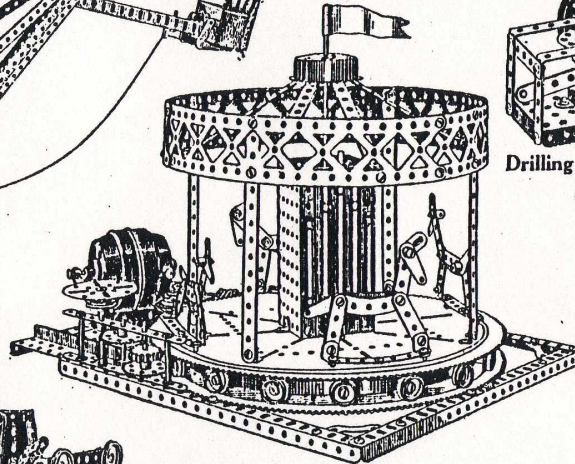


Meccano Builds these Wonderful Models

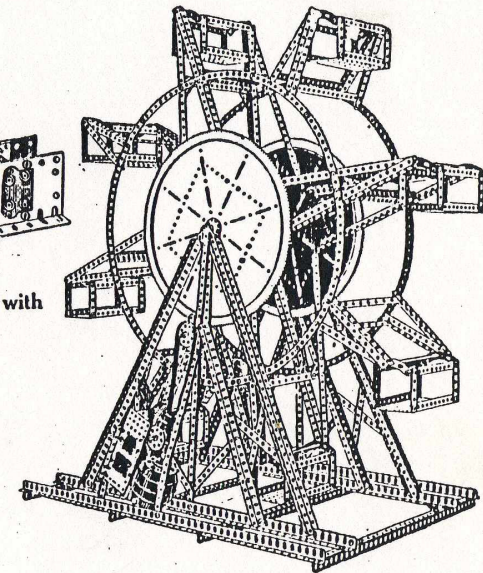
Steam Shovel Built with
No. 125 Outfit



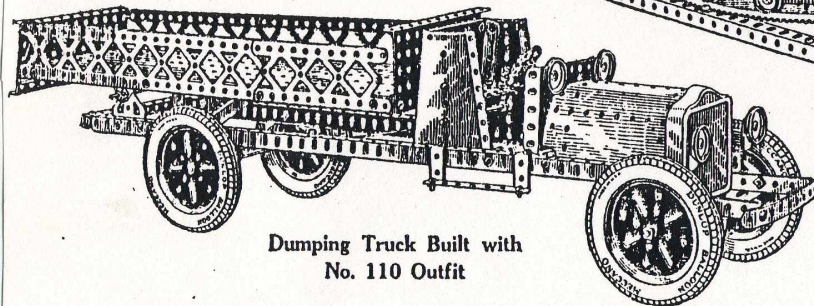
Merry-go-round Built with
No. 150 Outfit



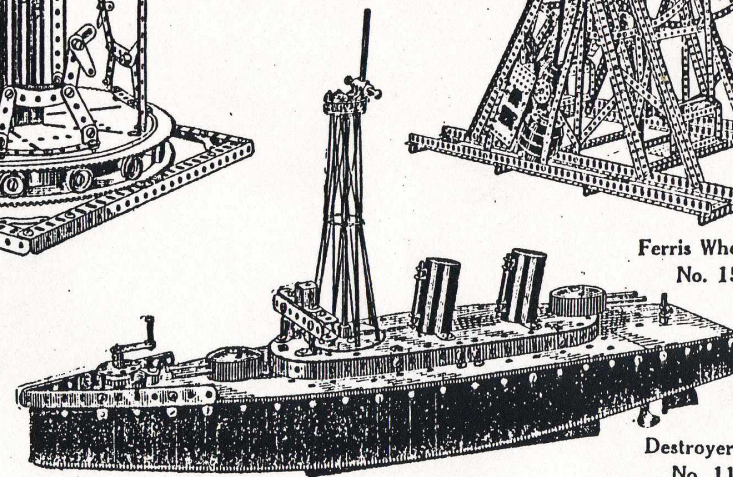
Drilling Machine Built with
No. 5 Outfit



Ferris Wheel Built with
No. 150 Outfit



Dumping Truck Built with
No. 110 Outfit



Destroyer Built with
No. 115 Outfit

THE MECCANO MAGAZINE — The finest magazine for boys ever published! Beautifully bound and covered, loads of interesting articles and stories on the world's most interesting events and accomplishments. News of new Meccano models, stamp collector's exchanges, and all the liveliest information for model builders and toy train railroaders. The official publication of the Meccano Company. Published monthly. Send for free sample.

This page is intentionally left blank