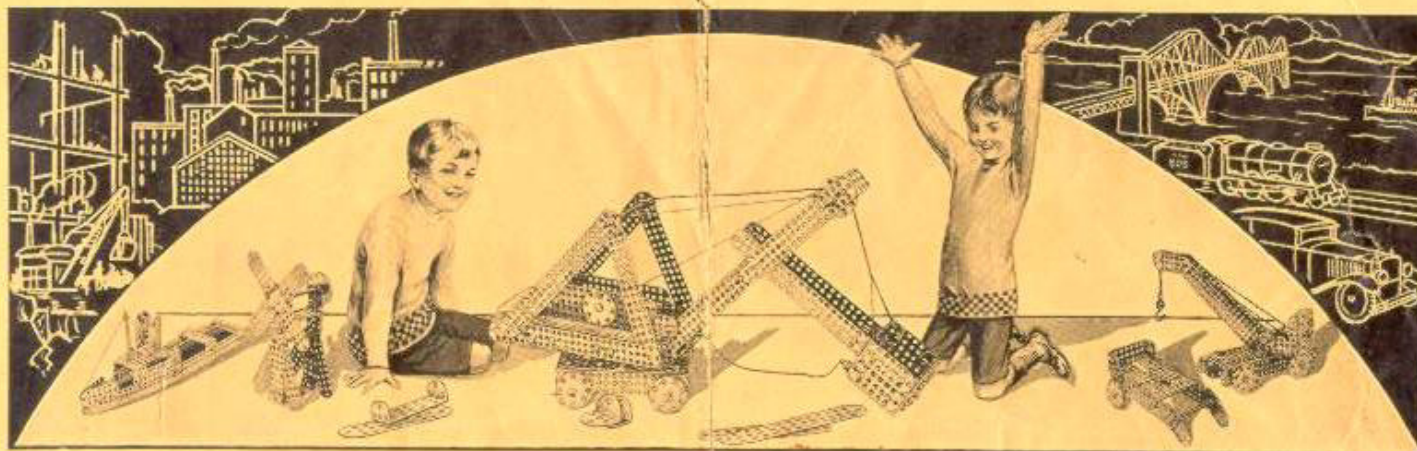


## MECCANO X SERIES

England

NAME	X SERIES		
TYPE	Constructional Engineering		
HOLE DIAMETER	4.2mm	HOLE SPACING	6.35mm ( 1/4" )
SETS IN SYSTEM	Total of 3 : Basic X1, X2. Accessory X1A.		
DIFFERENT PARTS	16		
COLOUR	Green strips with red wheels and nickel angle brackets.		
FIXING METHOD	Nut and bolt		
MOTORS	1 Clockwork, similar to 'Magic' motor, but key on opposite side and fixed		
PERIOD	1932 to about 1939/40		
MANUFACTURER	Meccano Ltd., Binns Road, Liverpool, England		
COMMENTS	<p>Through rival manufacturers producing TRIX, the Meccano Company introduced this system, which was also sold in large stores such as W.F. Woolworths as British Model Builder.</p> <p>The parts are easily distinguishable from TRIX, by being larger and with Meccano sized holes in line, whereas TRIX had a smaller hole staggered, with a 4 BA bolt.</p> <p>It was not advertised in the UK after 1936 and it is not certain whether it was sold there after that date. However it was still being produced for export till about 1939/40. It still appeared in Australian lists in 1941</p>		

MATERIAL SUPPLIED BY F. A. Beadle, T Knowles and Tony Press



# MECCANO

TRADE MARK 256321, 501118, 70, 10533, 10974, 35/10475, 309/18, 584/23, 2918, 86, 191, 336, 4174, 91451, \*3179, 107149, 80822, 200639, 900733, 214061, 214062, 13622, 22004, 28810, 1818, 16737, 383/18, 0848, 30004, 10/10058, 20926, 18982, 20009/305, 9014, 5549, 3159, 10900, 10280, 2349, 41812, 3402, 7315, 14056, 120420, 404532-6-8-9, 90041, 90677, 6292, 404718, 410375, 35006, 13210, 41204, 8228, 1833.

## X SERIES OUTFIT No. 1

### INSTRUCTIONS

The first step in constructing the models shown in this folder is to build the framework. Then, before proceeding further, all the nuts and bolts should be carefully tightened up.

Where Screwed Rods are used in addition to Double Angle Strips for spacing strips apart, the latter should be secured first to ensure correct placing of the Rods. Any moving parts, such as wheel axles, etc., should next be fitted in position, and in arranging these care should be taken to leave a little play at the ends of the Rods to allow free movement.

The Discs are held firmly in position on the Rods by means of a nut screwed up tightly on each side.

Pivoted joints are made by locking two nuts together on one bolt, so that the strips, etc., are only held together loosely.

The greatest fun of all is to set the models to work by means of the Meccano X Clockwork Motor.

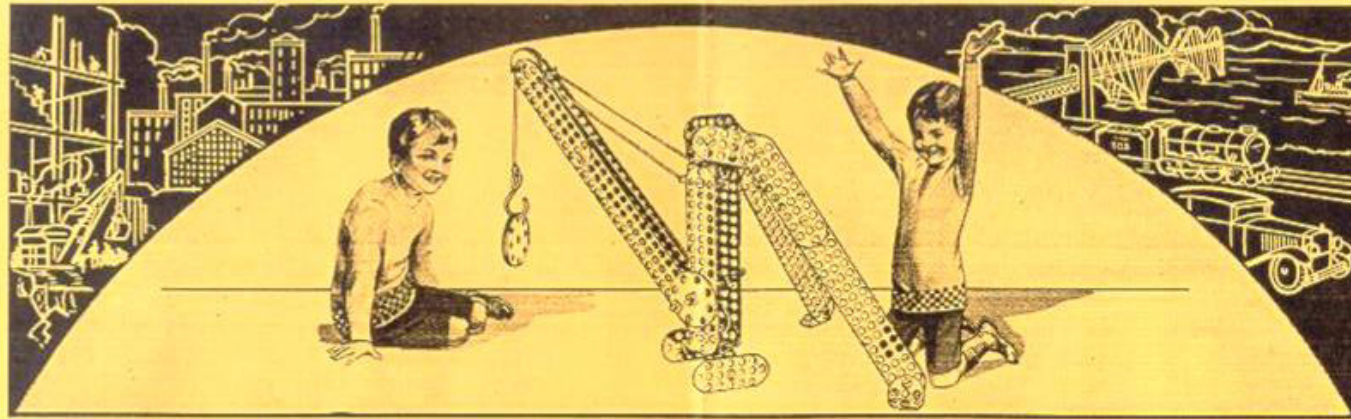
The possibilities of this Outfit will be greatly increased by the addition of a No. X1A Accessory Outfit, which converts a No. X1 into a No. X2 and makes possible the construction of bigger and better models.

Meccano X parts may be used in conjunction with standard Meccano parts and accessories, thus opening up an entirely new field for model-building.

Copyright by MECCANO LIMITED, LIVERPOOL, ENGLAND, throughout the World.



By 1937 the leaflet had changed



# MECCANO

## INSTRUCTIONS FOR OUTFIT X2

The first step in constructing the models shown in this folder is to build the framework. Then, before proceeding further, all the nuts and bolts should be carefully tightened up.

Where Screwed Rods are used in addition to Double Angle Strips for spacing strips apart, the latter should be secured first to ensure correct placing of the Rods. Any moving parts, such as wheel axles, etc., should next be fitted in position, and in arranging these care should be taken to leave a little play at the ends of the Rods to allow free movement.

The Discs are held firmly in position on the Rods by means of a nut screwed up tightly on each side.

Pivoted joints are made by locking two nuts together on one bolt, so that the strips, etc., are only held together loosely.

The greatest fun of all is to set the models to work by means of the Meccano X Clockwork Motor.

By adding more Outfits you may build still larger and finer models and increase the interest of your hobby to an unlimited extent.

Meccano X parts may be used in conjunction with standard Meccano parts and accessories, thus opening up an entirely new field for model-building.

## INSTRUCTIONS POUR L'EMPLOI DE LA BOITE X2

On commencera le montage de chacun des modèles reproduits dans ce dépliant par la construction du bâti, en prenant soin ensuite de bien serrer tous les écrous et boulons.

Dans les cas où l'on se sert de Tiges Filetées et de Bandes Courbées pour séparer les Bandes l'une de l'autre, ces dernières doivent être fixées les premières pour pouvoir assurer la position exacte des Tringles. Toutes les pièces mobiles, telles que les essieux des roues, etc., doivent être fixées ensuite à leur place; on aura soin de laisser un espace suffisant aux extrémités des Tringles, afin d'assurer un mouvement libre.

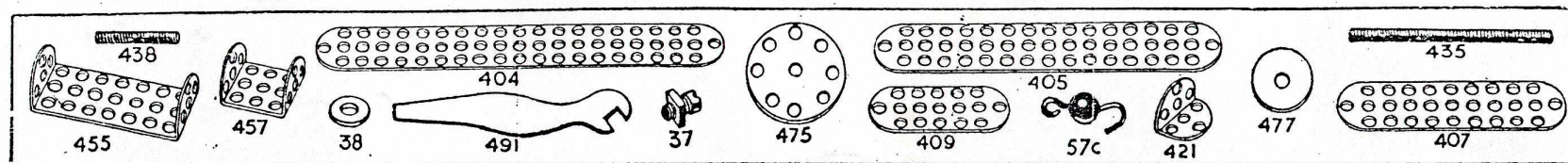
Les Disques se fixent aux Tringles à l'aide de deux écrous solidement bloqués des deux côtés.

Les articulations se forment par deux écrous bloqués sur un seul boulon de façon à permettre le pivotement libre des deux Bandes. Le plus grand amusement sera de mettre vos modèles en mouvement au moyen du Moteur à Ressort Meccano X.

Les pièces Meccano X peuvent être employées conjointement avec les pièces Meccano Standard, créant ainsi des perspectives brillantes et entièrement nouvelles pour la construction de modèles.

MECCANO LTD., LIVERPOOL, ENGLAND

## MECCANO X SERIES PARTS



No.		s.	d.	No.		s.	d.	No.		s.	d.
X404	Strips, 5½"	per doz.	1 2	X455	Double Angle Strips 1½" x ½"	per doz.	0 9	X491	Combined Spanner and Screwdriver	each	0 1
X405	" 4½"	"	1 0	X457	Double Angle Strips ¾" x ½"	"	0 7	37a	Nuts	doz.	0 2
X407	" 2½"	"	0 7	X475	Discs, 1½"	"	0 6	37b	Bolts 7/32"	"	0 2
X409	" 1½"	"	0 6	X477	" ¾"	"	0 3	38	Washers	"	0 1
X421	Angle Brackets	"	0 3					57c	Loaded Hooks, small	each	0 1
X435	Screwed Rods, 2½"	"	0 5								
X438	" 1"	"	0 3								

**MECCANO LTD. - BINNS RD. - LIVERPOOL 13 - ENGLAND**

1/633/50

Printed in England

E.

### Meccano "X" Series Parts

Part No.	X404	Perforated Strips, 5½"
"	X405	" " 4½"
"	X407	" " 2½"
"	X409	" " 1½"
"	X421	Angle Brackets.
"	X435	Screwed Rods, 2½"
"	X438	" 1"
"	X455	Double Angle Strips, 1½" x ½"
"	X457	" " ¾" x ½"
"	X475	Discs, 1½"
"	X477	" ¾"
"	X491	Combined Spanner and Screwdriver.
"	37a	Nuts.
"	37b	Bolts, 7/32".
"	38	Washers.
"	57c	Hooks (loaded).

Prices: No. X1 Outfit 1/3. No. X2 Outfit, 2/-.  
X Clockwork Motor, 2/6.

#### COMPLETE OUTFITS

	s.	d.
X Series Outfit No. 1	1	3
X Series Outfit No. 2	2	0
No. 000 Outfit	2	6
No. 00	3	6
No. 0	5	0
No. 1	10	0
No. 2	16	0

Meccano X Series Clockwork Motor (non-reversing)	s.	d.
Meccano Clockwork Motor No. 1 (non-reversing)	2	6
Meccano Clockwork Motor No. 1a (reversing)	5	0
	7	6

Note: The 'X' Series Motor (similar to later Magic) differed from the latter by having the key shaft & pulley on OPPOSITE sides whereas the Magic these were on the same side.



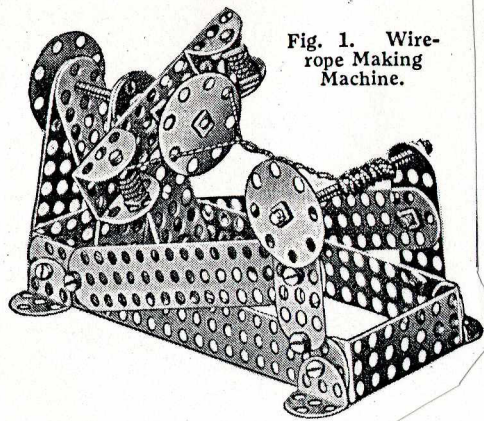


Fig. 1. Wire-rope Making Machine.

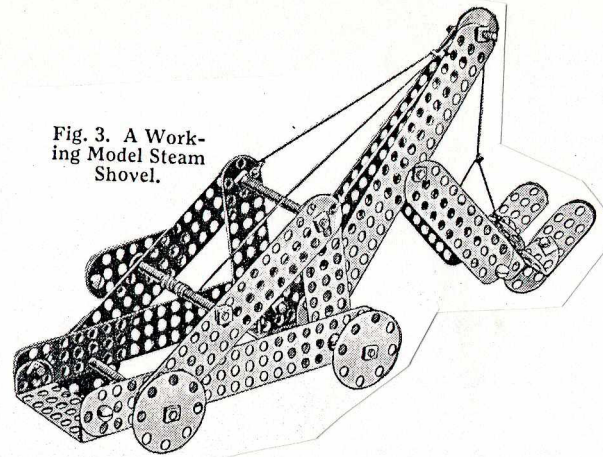


Fig. 3. A Working Model Steam Shovel.

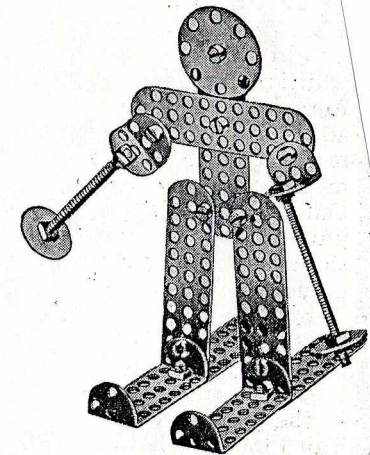


Fig. 2. Ski Runner.

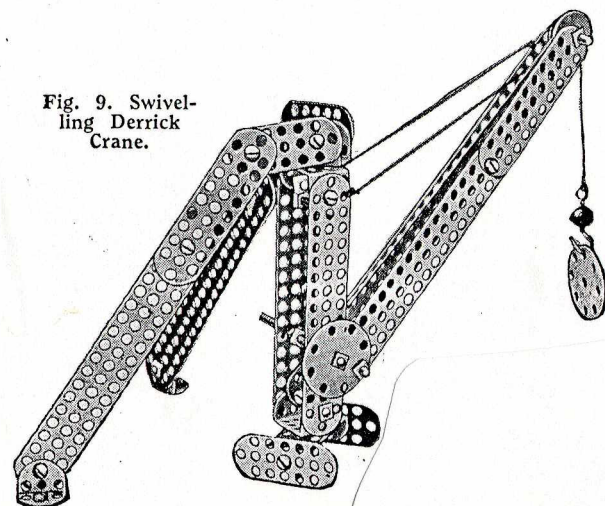
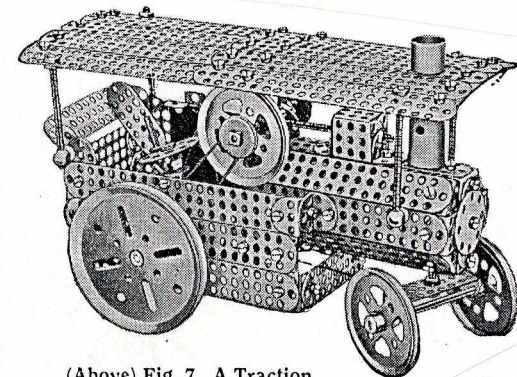


Fig. 9. Swivelling Derrick Crane.

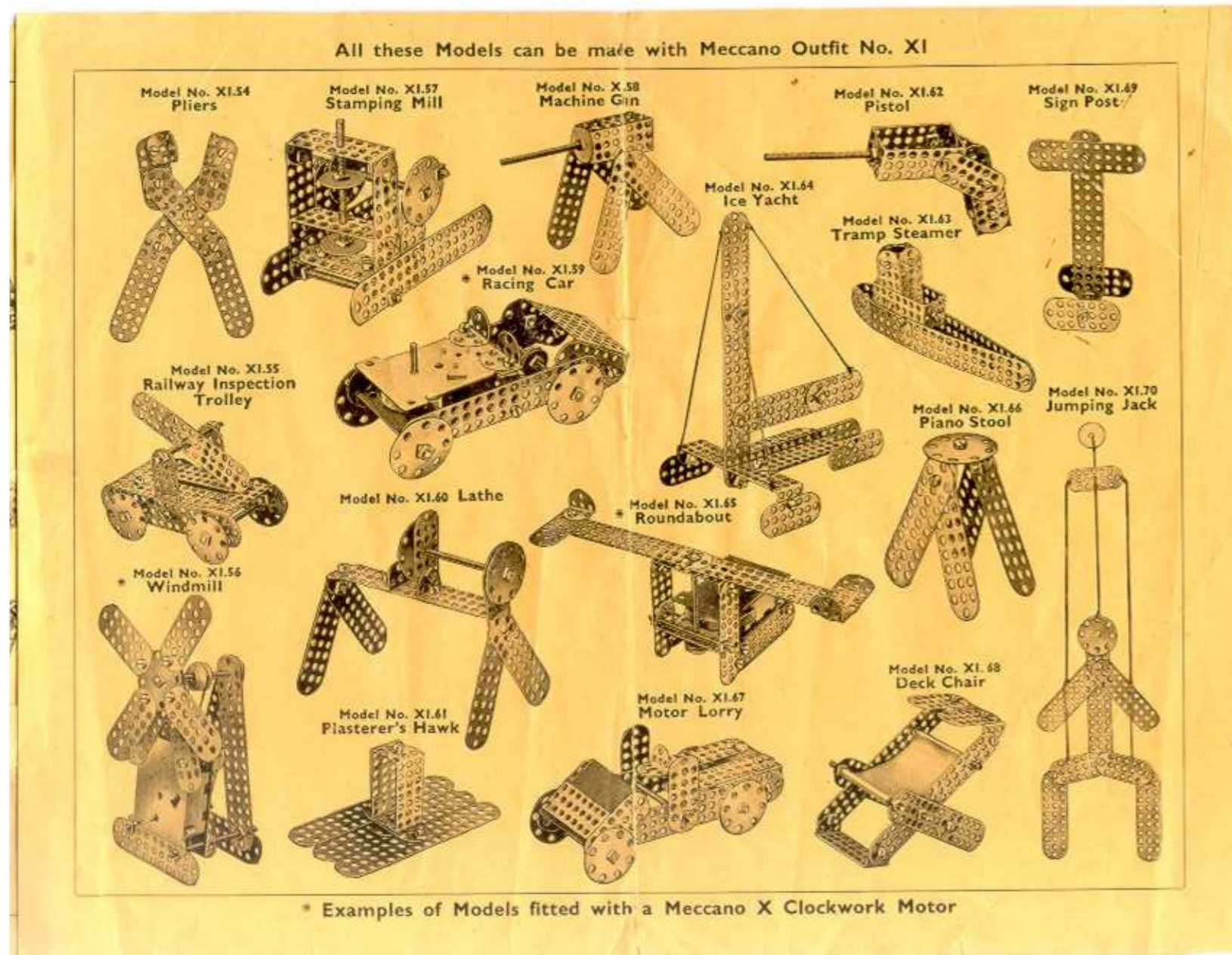


(Above) Fig. 7. A Traction Engine built by combining the contents of several Outfits. Note the uses of standard Meccano parts.  
(Right) Fig. 8. A No. 2 Outfit model Roundabout.



# MECCANO (ENGLAND) - X SERIES 5b

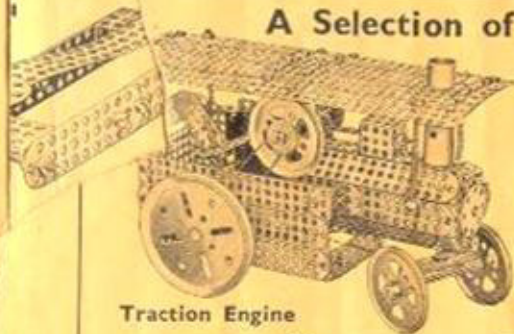
Models from the X1 manual



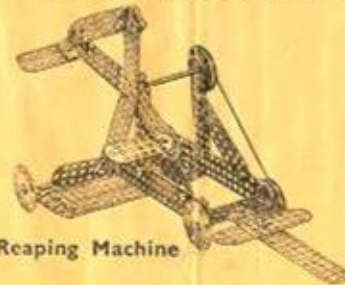


Rear of the 1932 X1 manual.

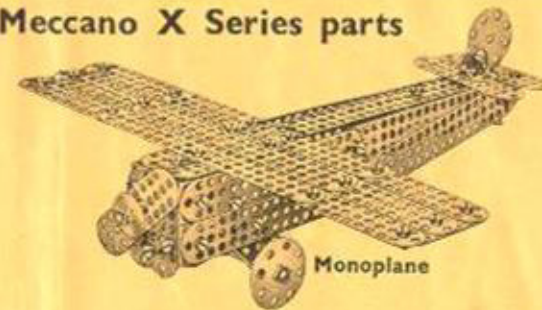
# A Selection of Super Models made with Meccano X Series parts



Traction Engine



Reaping Machine



Monoplane



Big Wheel

**KEEP ADDING TO YOUR OUTFIT**

The more parts you have the bigger and better the models you are able to build. Keen and enthusiastic model builders keep adding to their Outfits until they are able to build big fine models like those illustrated on this page. You can purchase separate Meccano X Series parts as you require them or, if you prefer, you can obtain *Accessory Outfit No. X1A* to convert your No. X1 Outfit into No. X2.

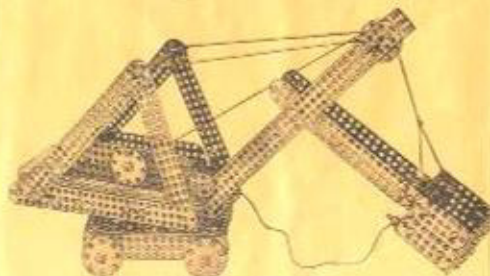
The full range of Meccano X Series parts is listed below. Ask your dealer for a current price list of X Series Outfits, Parts and X Clockwork Motor.

X 404 Perforated Strips, 5 1/2"	X 457 Double Angle Strips, 2" by 1"
X 405 " " " 4 1/2"	X 475 Discs, 1 1/2"
X 407 " " " 2 1/2"	X 477 " " " 1 1/2"
X 409 " " " 1 1/2"	X 491 Combined Spinner and Screwdriver
X 421 Angle Brackets	37A Nuts
X 435 Screwed Rods, 2 1/2"	37B Bolts 7/32"
X 438 " " 1"	38 Washers
X 455 Double Angle Strips, 1 1/2" by 1"	57C Hooks (Loaded)

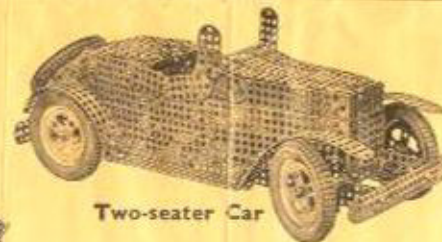
**RUN YOUR MODELS WITH A MECCANO X CLOCKWORK MOTOR**



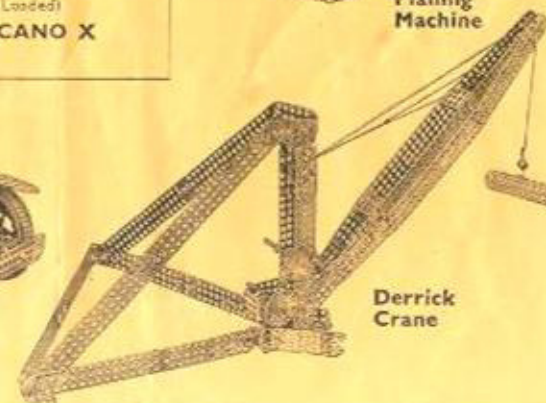
Planing Machine



Mechanical Excavator



Two-seater Car

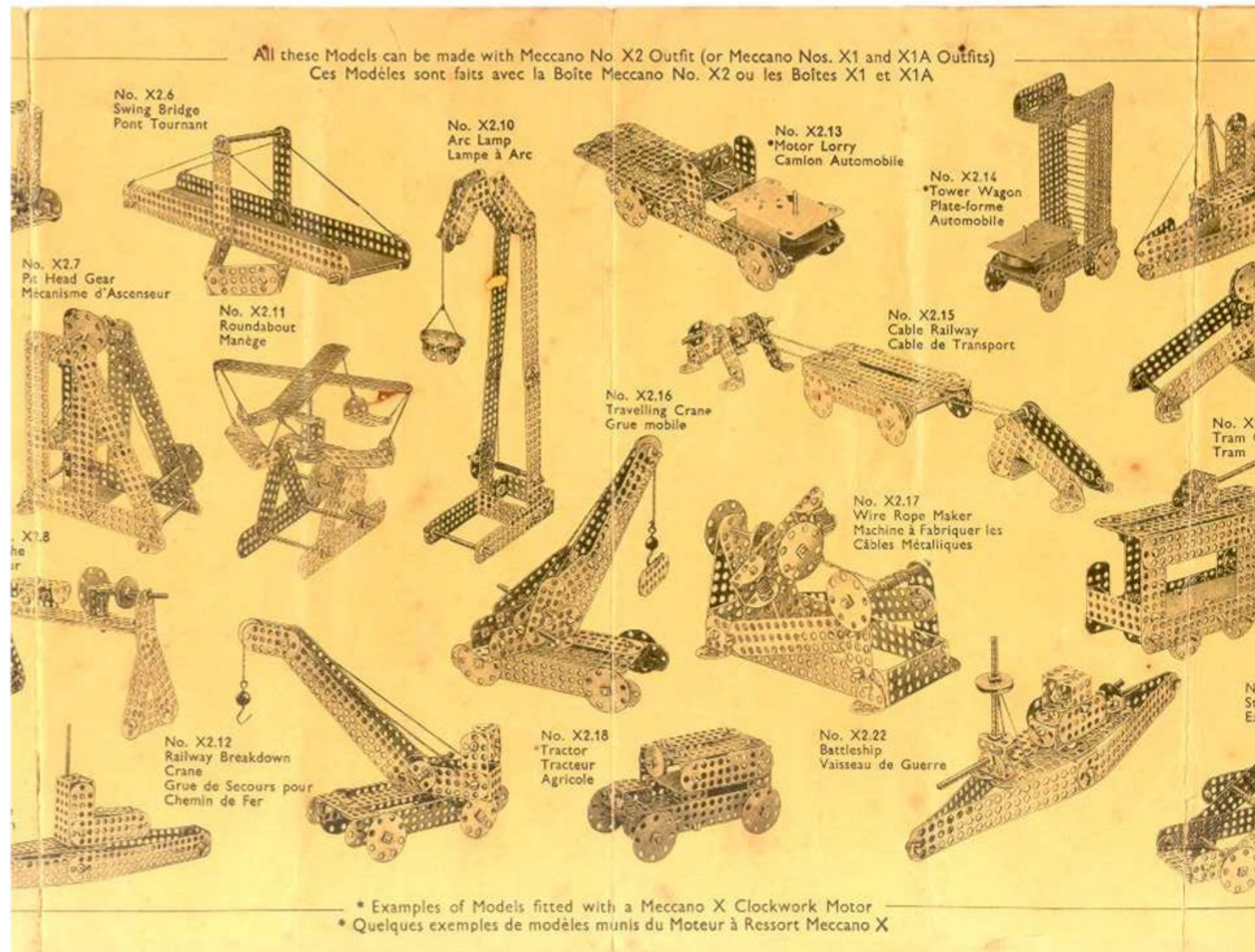


Derrick Crane



# MECCANO (ENGLAND) - X SERIES 5d

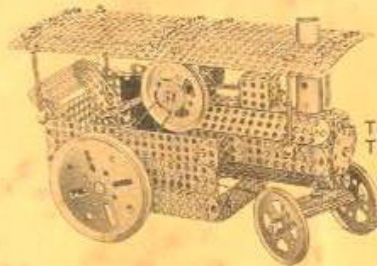
Models from the X2 manual



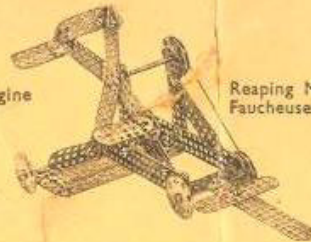


Rear of the 1937 X2 manual

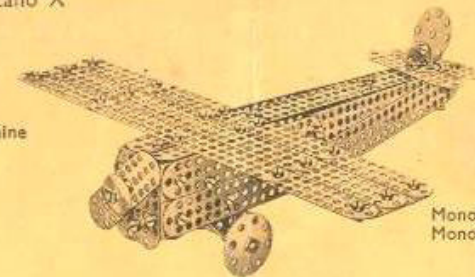
## A Selection of Super Models made with Meccano X Series parts\* Un Choix de Super-Modèles Meccano X



Traction Engine  
Tracteur



Reaping Machine  
Fauçonneuse



Monoplane  
Monoplan

### Keep adding to your Outfit

The more parts you have the bigger and better the models you are able to build. Keen and enthusiastic model builders keep adding to their Outfits until they are able to build big fine models like those illustrated on this page.

You can purchase separate Meccano X Series parts as you require them or, if you prefer, you can obtain more Outfits, either No. 1 or No. 2, to increase the model-building possibilities of your equipment.

The full range of Meccano X Series parts is listed below. Ask your dealer for a current price list of X Series Outfits, Parts and Motor.

X 404 Perforated Strips, 5 1/2"  
X 405 " " " 4 1/2"  
X 407 " " " 2 1/2"  
X 409 " " " 1 1/2"  
X 421 Angle Brackets  
X 435 Screwed Rods 2 1/2"  
X 438 " " " 1 1/2"  
X 455 Double Angle Strips  
" 1 1/2" by 1 1/2"  
X 457 Double Angle Strips  
" 1 1/2" by 1 1/2"

X 475 Discs, 1 1/2"  
X 477 " " 1"  
X 491 Combined Spanner and  
Screwdriver  
37A Nuts  
37B Bolts 7/32"  
38 Washers  
37C Hooks (Loaded) Small

RUN YOUR MODELS WITH A  
MECCANO X CLOCKWORK MOTOR

### Complétez Votre Boîte Meccano X

Plus vous aurez de pièces—meilleures et plus grands seront les modèles que vous pourrez construire. Les jeunes fervents de Meccano complètent leurs Boîtes jusqu'au jour où ils seront à même de monter de grands et beaux modèles pareils à ceux reproduits sur cette page.

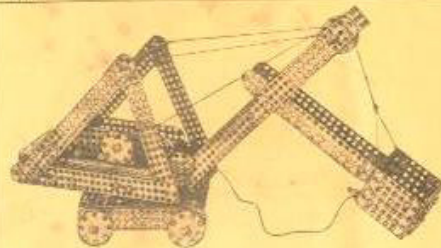
Si vous le désirez, vous pouvez toujours acheter séparément des pièces détachées de la série Meccano X ou bien, si vous le préférez, vous pouvez acheter plus de Boîtes, chacun No. X1 ou X2, pour la construction de modèles plus grands.

Vous trouverez ci-dessous la liste complète des pièces Meccano de la série X. Demandez à votre fournisseur habituel le tarif des Boîtes et des pièces détachées X.

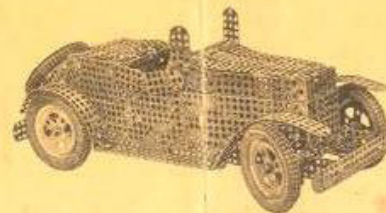
#### Pièces Meccano de la Série X.

X 404 Bandes Perforées, 13 1/2 cms.	X 437 Bandes coudées, 19 x 12 mm.
X 405 " " " 11 " "	X 475 Roulement, 32 mm.
X 407 " " " 7 " "	X 477 " " " 19 " "
X 409 " " " 4 1/2 " "	X 491 Tournevis avec clef
X 421 Equerres	37A Ecrous
X 435 Tiges filetées, 8 1/2 cms.	37B Boulons, 5 mm.
X 438 " " " 2 1/2 " "	38 Rondelles métalliques
X 455 Bandes coudées, 45 x 12 mm.	57C Crochet chargé

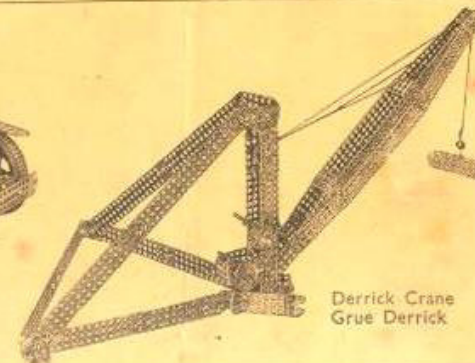
FAIRE ACTIONNER VOS MODÈLES AVEC UN  
MOTEUR A RESSORT X



Mechanical Excavator  
Excavateur Mécanique



Two-seater Car  
Auto à Deux Places



Derrick Crane  
Grue Derrick

## MECCANO (ENGLAND) - X SERIES 6

### Set Contents

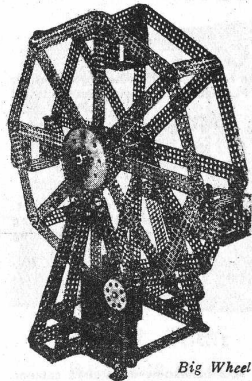
Part Number	Description	X1	X2
X404	5 1/4" x 3/4"-strip		4
X405	4 1/4" x 3/4"-strip	2	2
X407	2 3/4" x 3/4"-strip	4	4
X409	1 3/4" x 3/4"-strip	4	4
X421	1/2" x 1/2" x 3/4"-angle bracket	2	4
X435	2 1/2" screwed rod-standard	3	4
X438	1" screwed rod-standard		2
X455	1 3/4" x 1/2" -DAS	2	2
X457	3/4" x 1/2" -DAS		2
X475	1 1/4" disc-later(1937) was No.217a	4	4
X477	Disc – later(1937) was #217b then No.36d washer	2	2
X491	combo spanner/screwdriver	1	1
37a	standard nut	20	36
37b	standard bolt	8	16
38	standard washer	2	4
57c	standard loaded hook small		1



From the 1933 Meccano Catalogue

# MECCANO

## X SERIES OF OUTFITS



Big Wheel

### No. XI Outfit Builds 70 Models

A fine range of sturdy models can be built with No. XI Outfit. Examples of 70 are given in the illustrated Instruction Folder that is included, while keen model-builders will derive great satisfaction from building additional models of their own creation.

This Outfit is the finest value in constructional toys ever offered to boys.

Price 1/3



### No. X2 Outfit Builds 96 Models

THE additional parts contained in No. X2 Outfit enable models of a bigger and better type to be constructed, including a modern Battleship and Submarine, Steam Shovel, Windmill, Swing Bridge and Railway Breakdown Crane. The total number of models shown in the Instruction Folder included in this Outfit is 96, but scores of others can be made by inventive boys ... Price 2/-

A No. X1A Accessory Outfit (costing 1/-) converts a No. X1 Outfit into a No. X2.

### MECCANO X CLOCKWORK MOTOR

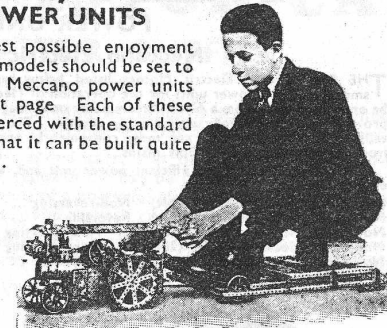
A special Clockwork Motor that gives life and realism to models constructed with Meccano X Series parts is available, price 2/6 (see opposite page).

# MECCANO

## POWER UNITS

IN order to obtain the greatest possible enjoyment from the Meccano hobby, the models should be set to work by means of one of the Meccano power units described on this and the next page. Each of these units has side plates and base pierced with the standard Meccano equidistant holes, so that it can be built quite easily into any Meccano model.

The accompanying illustration shows a Meccano Traction Engine model, fitted with a Meccano Electric Motor, hauling more than ten times its own weight.

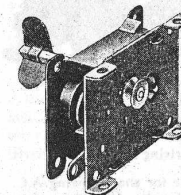


### Meccano Clockwork Motors

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.

#### X Series Clockwork Motor

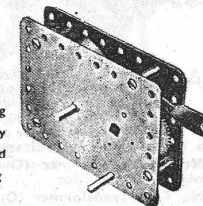
A fine Motor specially designed to drive with ease any of the X Series models. It is non-reversing... Price 2/6



X Clockwork Motor

#### No. 1 Clockwork Motor

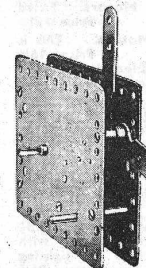
An efficient and long-running Motor fitted with a brake lever by means of which it may be started and stopped. It is non-reversing.  
Price ... 5/-



No. 1 Clockwork Motor

#### No. 1a Clockwork Motor

This Motor is more powerful than the No. 1 Motor and is fitted with reversing motion. It has start, stop and reverse levers.  
Price ... 7/6



No. 2 Clockwork Motor

#### No. 2 Clockwork Motor

This is a Motor of super quality. An efficient governor controls the extremely powerful spring and ensures a long steady run at each winding. Brake and reverse levers enable the Motor to be started, stopped or reversed, as required ... Price 10/-

### MECCANO ENAMEL

THE Meccano enamel enables model-builders to convert nickel parts to colour or to touch up coloured parts should such treatment become necessary through mishandling. It is available in red, grey or green ... Price, per tin, 8d.

## USE A MECCANO POWER UNIT

## MECCANO (ENGLAND) - X SERIES 7b

The parts were in an envelope in the box









## MECCANO (ENGLAND) - X SERIES 7d

