

featuring the
MORE-CRAFT
BOLTLESS JOINT

MANUAL OF INSTRUCTIONS

MODERN-MORECRAFT

MODERN-MORECRAFT

"The toy that grows with the boy"

Do you like to make models of things you have seen? Enjoy finding out the *How's and Why's*? Want to build brand new buildings?

The **MODERN-MORECRAFT** outfit you now have gives you a chance to do all this and more, too; for **MORECRAFT**, in magic manner, equips you to do your own reproducing, inventing, and creating. Want to start right away? Good! Here's how to do it:

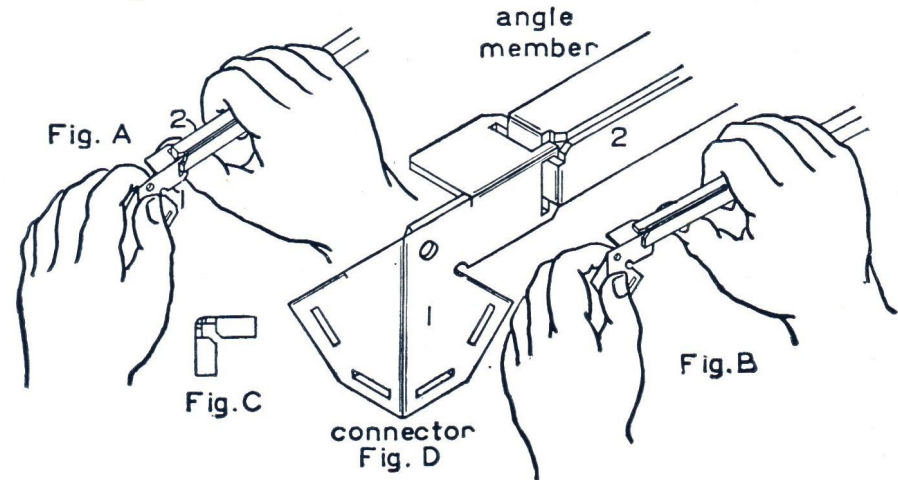
***FIRST:** Get acquainted with the new **MORECRAFT BOLTLESS JOINT**. Its business is to join parts without the use of nuts, bolts, rivets, nails, or rods. Try attaching and detaching the angle members or girders to the different connections or gussets; and learn how to adjust the ends of the angle-member to form a perfect joint. The illustration to the right shows you how. You will find yourself putting **MORECRAFT** together and taking it apart in an astonishingly short time. In the smaller sets of **MODERN-MORECRAFT**, there are no nuts and bolts at all; yet you can build all the models shown for these sets in the **MANUAL OF INSTRUCTIONS** and many others you will think of yourself. With the larger sets, even, you will find you need very few nuts and bolts. Notice that the individual **MORECRAFT** joints are designed to be slightly flexible but that the completed structure is surprisingly rigid and strong.

****SECOND:** Study the pictures of the parts and the **"CONSTRUCTION DETAILS"** at the end of this manual. Engineers, Architects, and Educators all agree that the careful planning of **MORECRAFT** parts allows a larger number of different combinations with a smaller number of parts, and permits diagonal bracing, etc. making **MODERN-MORECRAFT** the ideal construction toy.

*****THIRD:** Select a model to build, beginning with a simple one. You will find that there is an endless store of enjoyment for **MODERN-MORECRAFT** builders whether they be boys or girls, young or old. The four-year-old, too young to build from pictures, will connect pieces here and there and discover for himself the principles of structural design. You can build readily, using model pictures in the manual, real models, or your imagination. Grown up boys particularly enjoy building "easy-to-put-together, quick-to-get-apart" structures to support complicated motor driven mechanisms.

******FOURTH:** Select your parts and start to build. The manual helps you, in building smaller models, by giving you, near each picture, a list of parts required. For the larger models, a blueprint is provided, in addition to the picture in the manual. This blueprint also includes a **"BILL OF MATERIAL"** and necessary instruction. The models pictured in the manual are suggestions. They do not begin to exhaust the possibilities of your set. As you use your **MODERN-MORECRAFT**, new

ideas will come to you. You will gradually accumulate so much valuable knowledge of mechanics and engineering that you can develop these ideas and try your hand at inventing.



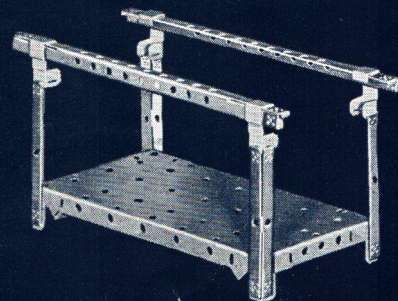
MORECRAFT BOLTLESS JOINT

The operation of the **MORECRAFT JOINT** is shown in Figs. A and B.

To attach, hold the members as shown in Fig. A. with the right thumb under the slots of the connector, 1, and press the angle-member 2, down. The projecting ends of the angle-member will spring apart and enter the slots. The position of the parts for making the connection is shown more clearly in Fig. D. To disconnect, hold the parts with the right thumb under the split end of the angle-member near the connector and pull down on the connector with the left hand. The right thumb will spread the ends of the angle-member and the parts will separate. A slight twisting of the angle-member will assist in disconnecting the members. If properly adjusted, the joint is surprisingly strong and rigid. If it is not, the ends of the angle-member may have become bent. This may be corrected easily by bending the ends of the angle-member until they are in the position shown in Fig. C.

If you have any difficulty building models, if you want to ask questions about **MODERN-MORECRAFT**, if you want to tell us about any of the discoveries that you make in connection with it, write to us! Meanwhile, happy times to you!

Models built with the *Beginner Size*



PARALLEL BARS
For Your Toy Playground

PARALLEL BARS

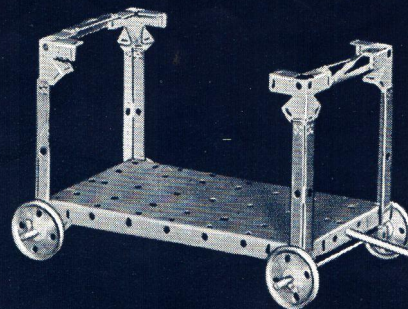
P-4	1
A-1	4
A-3	2
C-0	4

BAGGAGE TRUCK

P-4	1
A-0	2
A-1	4
C-90-X	4
W-2	4
R-2	2
R-4	1
K	4

(Rubber Band—
Not Supplied)

Put a rubber band several times around the end of the tongue before inserting it into the hole in the P-4.



BAGGAGE TRUCK

Parts required

SAND SIFTER

P-4	1
A-0	1
A-2	2
C-135-ZR	1
C-135-ZL	1

WEATHER VANE

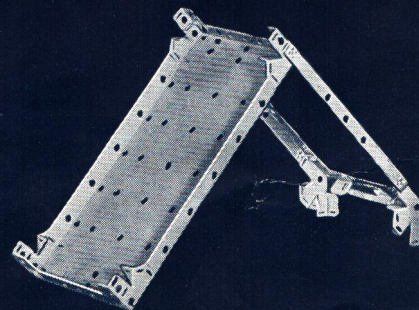
P-4	1
A-0	6
A-1	3
C-90-X	4
C-135-ZR	1
C-135-ZL	1
R-4	1
W-2	2
K	3

STIFF LEGGED DERRICK

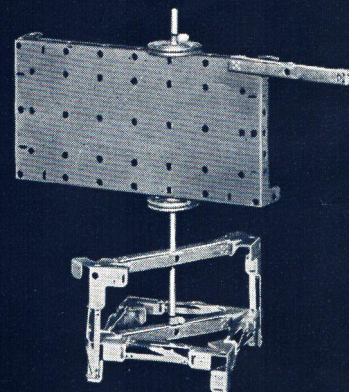
The boom will swing all over your block building. The vertical rod is held top and bottom between the ends of A-O's, reverse connected to the corner of the P-4 and the top C-90-X. See the "Construction Details".

P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	3	W-2	4
A-2	2	R-4	1
A-3	2	CH-1	1
C-0	3	K	3
C-90-X	4	AF	1

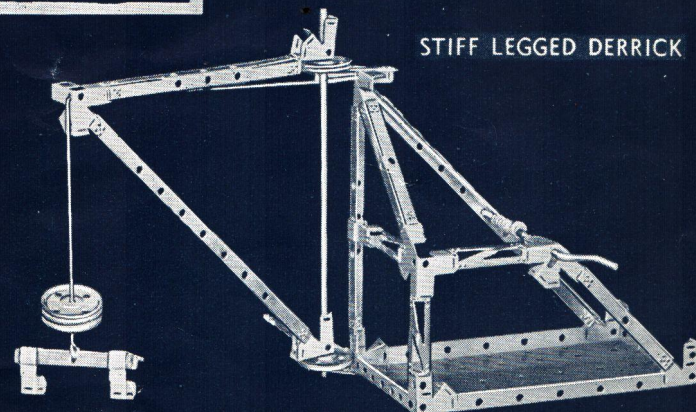
(String—Not Supplied)



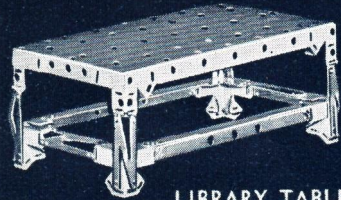
SAND SIFTER



WEATHER VANE
The Finger Will Point to the
Direction from Which the
Wind Is Blowing



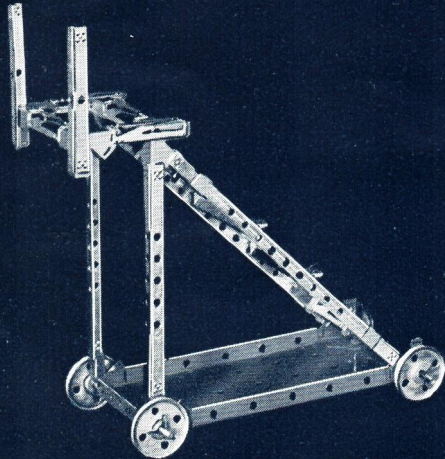
STIFF LEGGED DERRICK

Models built with the **Beginner Size**

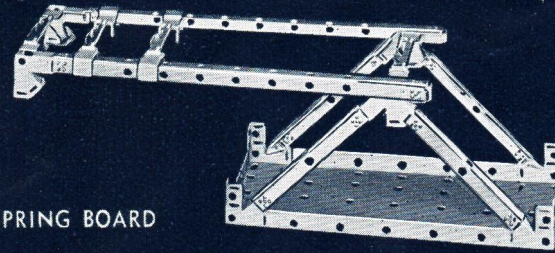
LIBRARY TABLE



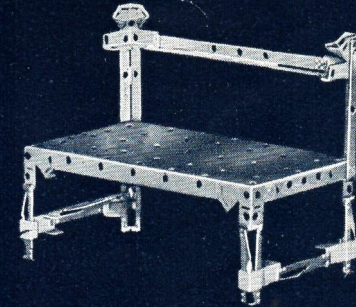
FLAT TRUCK



TROLLEY REPAIR TRUCK



SPRING BOARD



PARK BENCH

LIBRARY TABLE

P-4	1
A-0	6
A-2	2
C-90-X	4

FLAT TRUCK

P-4	1
W-2	4
R-2	2
K	4

TROLLEY REPAIR TRUCK

P-4	1	C-0	4
A-0	6	C-90-X	4
A-1	4	W-2	4
A-2	2	R-2	2
A-3	2	K	4

Parts required
SPRING BOARD

P-4	1
A-0	4
A-1	4
A-3	2
C-0	4
C-90-X	4

PARK BENCH

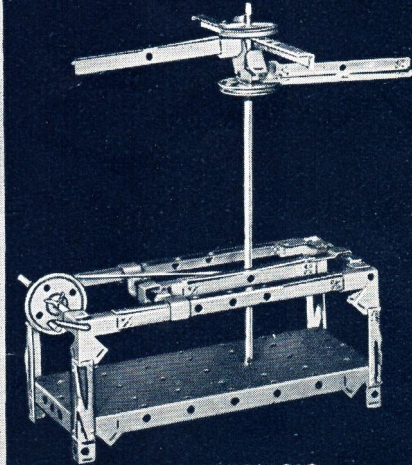
P-4	1
A-0	6
A-1	2
A-2	1
C-0	4
C-90-X	2

WHIRLIGIG

Note: For the construction of the hub of the whirligig see the construction details in the back part of this manual.

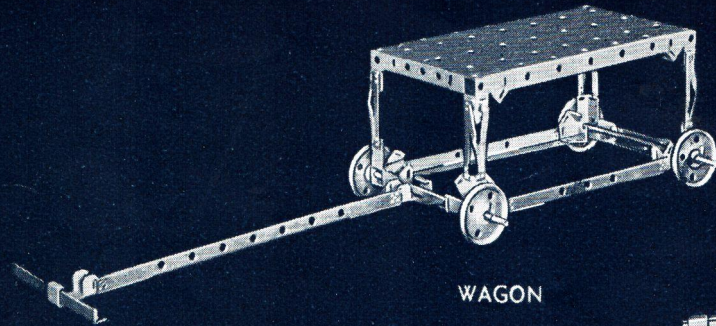
P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	3	W-2	3
A-2	2	R-4	1
A-3	1	CH	1
C-0	4	K	4
C-90-X	4		

(Rubber Band—Not Supplied)

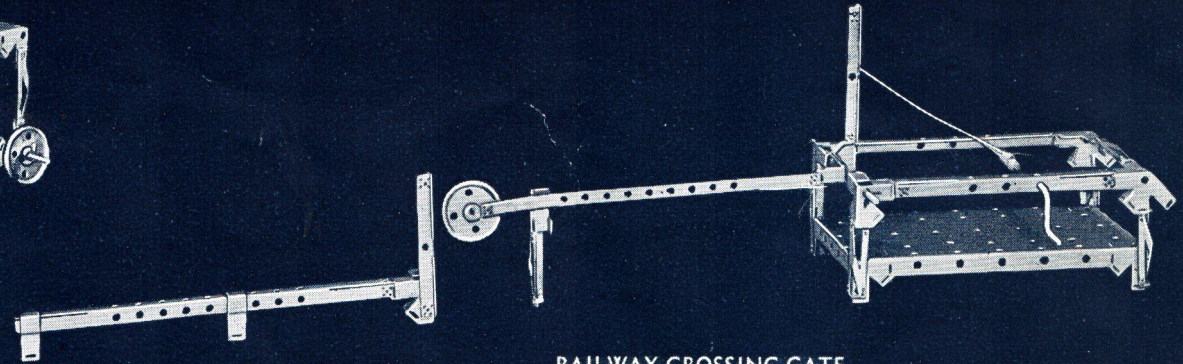


WHIRLIGIG

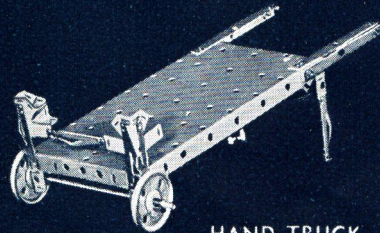
Illustrates the Transmission
of Circular Motion



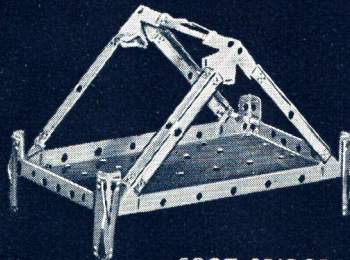
WAGON



RAILWAY CROSSING GATE
For Your Toy Trains



HAND TRUCK



FOOT BRIDGE
(Just Right for Your Toy
Soldiers)

Parts required

WAGON

P-4	1
A-0	6
A-1	1
A-2	2
A-3	1
C-0	2
C-90-X	4
W-2	4
R-2	2
K	4

HAND TRUCK

P-4	1
A-0	5
A-1	2
C-90-X	2
W-2	2
R-2	1
K	2

RAILWAY CROSSING GATE

P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	2	W-2	1
A-2	2	R-2	1
A-3	2	CH-1	1
C-0	3	K	4
C-90-X	4		

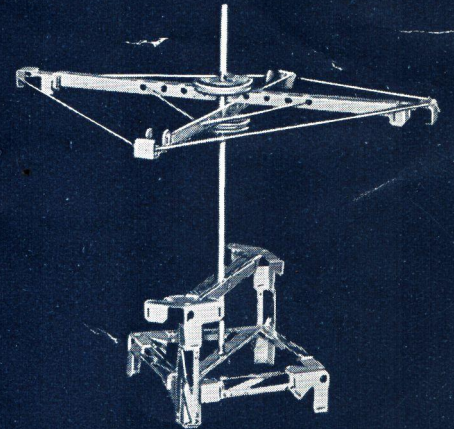
(String—Not Supplied)

Note: Spring apart the ends of the gate and
press together over the W-2.

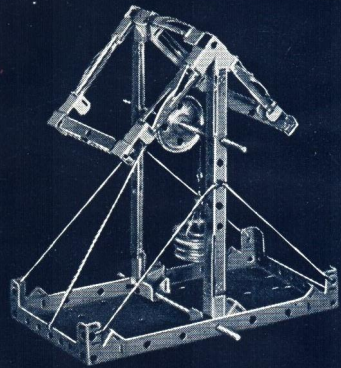
CLOTHES
REEL

P-4	1	A-0	6
A-0	5	A-1	2
A-1	4	A-3	2
C-90-X	2	C-0	4
		C-90-X	4
		C-135-ZL	1
		C-135-ZR	1
		W-2	2
		R-4	1
		K	3

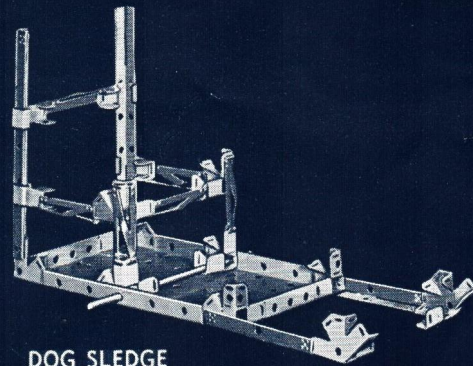
(String — Not
Supplied)



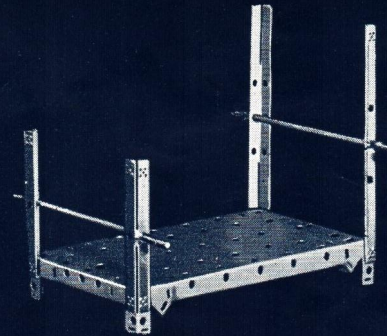
CLOTHES REEL

Models built with the **Beginner Size**

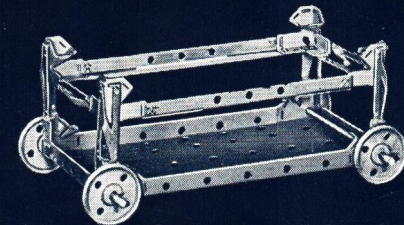
WELL
The Open Country Kind



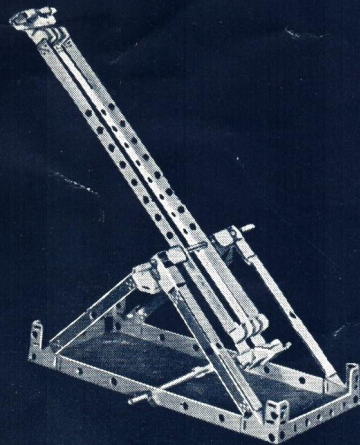
DOG SLEDGE



FOUR POSTER BED



PACKAGE TRUCK



CATAPULT

Parts required

WELL

P-4	1
A-0	5
A-1	2
A-2	2
C-0	4
C-90-X	4
W-2	4
R-2	2
K	3
AF	1

(String—Not Supplied)

DOG SLEDGE

P-4	1
A-0	6
A-1	2
A-2	2
C-0	4
C-90-X	4
C-135-ZR	1
C-135-ZL	1
K	2
R-2	1

FOUR POSTER BED

P-4	1
A-1	2
A-2	2
R-4	2
K	4

PACKAGE TRUCK

P-4	1
A-0	6
A-2	2
C-90-X	4
W-2	4
R-2	2
K	4

CATAPULT

Place a wad of paper on the upper end of the arm, pull back and release. Wad may be accurately thrown.

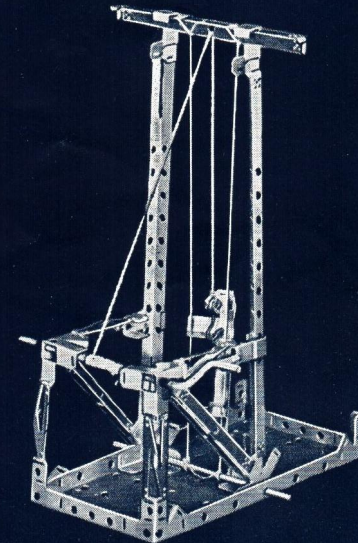
P-4	1	C-0	4
A-0	2	C-90-X	2
A-1	4	R-2	2
A-3	2	K	4

(Rubber Band—Not Supplied)

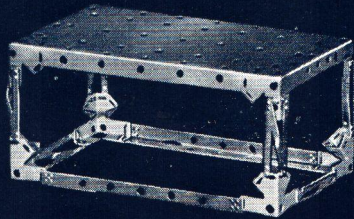
BUILDERS' HOIST

Note: This model illustrates the conversion of circular motion into straight motion.

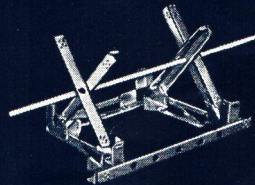
P-4	1	C-135-ZR	1
A-0	4	C-135-ZL	1
A-1	3	R-2	1
A-2	1	C-H	1
A-3	2	AF	1
C-0	4	K	2
C-90-X	4	(String—Not Supplied)	



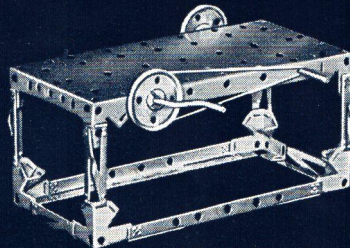
BUILDERS' HOIST
Used to Hoist Materials in
Buildings During
Construction



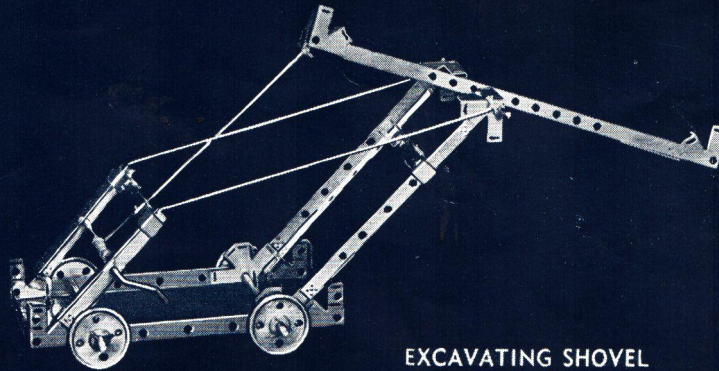
TABLE



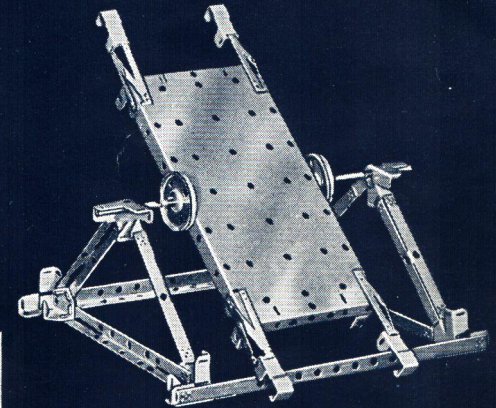
SAW-BUCK
Used to Saw Up Fire Wood



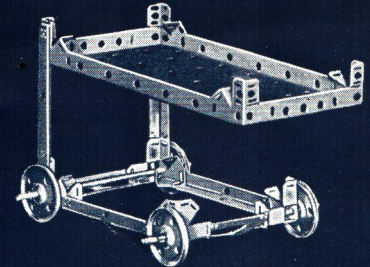
CIRCULAR SAW
As Found in Any Large
Woodworking Shop



EXCAVATING SHOVEL

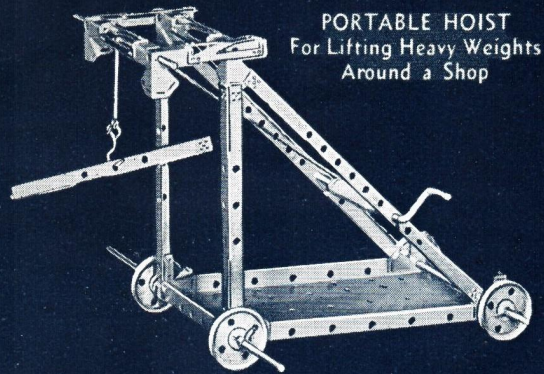


SEE SAW

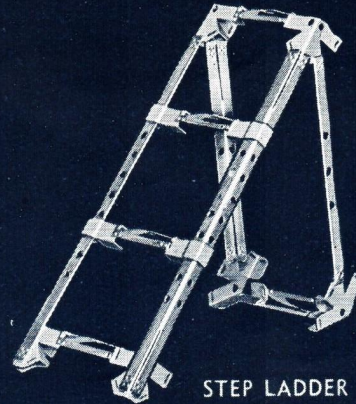


BEDSIDE TABLE

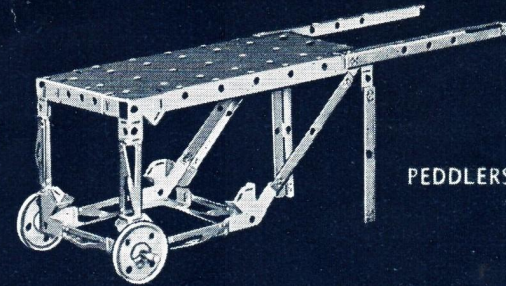
TABLE		Parts required		SEE SAW	
TABLE		EXCAVATING SHOVEL		SEE SAW	
P-4	1	P-4	1	P-4	1
A-0	6	A-0	2	A-0	4
A-2	2	A-1	2	A-1	4
C-90-X	4	A-2	2	A-2	2
SAW-BUCK		A-3	1	A-3	2
C-90-X	4	C-0	4	C-0	4
A-0	3	C-90-X	4	C-90-X	4
A-1	4	C-135-ZR	1	C-135-ZR	1
A-2	1	C-135-ZL	1	C-135-ZL	1
R-4	1	W-2	4	W-2	2
CIRCULAR SAW		R-2	2	R-4	1
P-4	1	R-4	1	K	4
A-0	6	CH-1	1	BEDSIDE TABLE	
A-2	2	K	4	P-4	1
C-90-X	4	(String—Not		A-0	2
W-2	2	Supplied)		A-1	4
R-2	1	Note: The Circular Saw, shown		C-90-X	4
C-H	1	to the left, illustrates the trans-		W-2	4
K	3	mission of circular motion.		R-2	2
(Rubber Band—Not Supplied)				K	4

Models built with the **Beginner Size**

PORTABLE HOIST
For Lifting Heavy Weights
Around a Shop



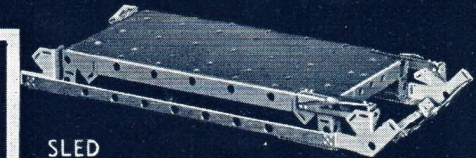
STEP LADDER



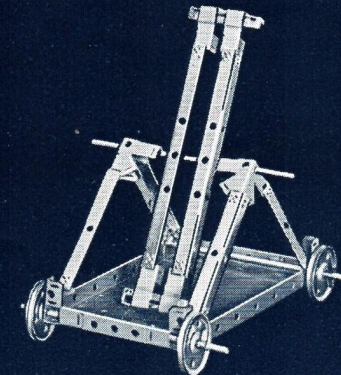
PEDDLERS' CART



BAND SAW
For the Toy Workshop



SLED



HAND CAR

Parts required

PORTABLE HOIST

P-4	1
A-0	4
A-2	3
A-3	2
C-90-X	4
R-2	2
R-4	1
W-2	4
C-H	1
K	4
AF	1

(String—Not
Supplied)

STEP LADDER

A-0	5
A-2	2
A-3	2
C-0	4
C-90-X	4
C-135-ZR	1
C-135-ZL	1

BAND SAW

P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	4	W-2	2
A-2	2	R-2	2
A-3	2	C-H	1
C-0	2	K	4
C-90-X	4		

(String—Not Supplied)

PEDDLERS' CART

P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	4	W-2	2
A-2	2	R-2	2
C-90-X	1	K	2

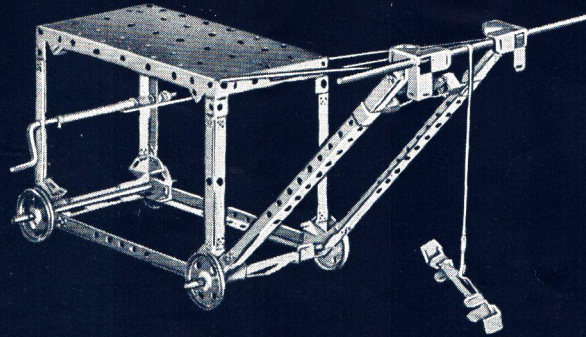
SLED

P-4	1	C-90-X	2
A-0	4	C-135-ZR	1
A-3	2	C-135-ZL	1

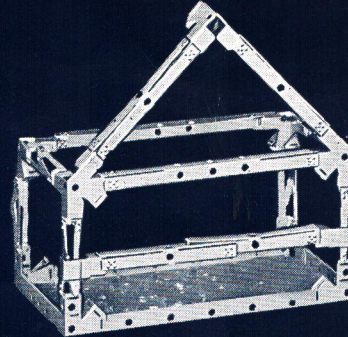
The runners are fastened together front and rear and the P-4 simply rests within them.

HAND CAR

P-4	1	C-90-X	2
A-0	2	R-2	2
A-1	4	R-4	1
A-2	2	W-2	4
C-0	4	K	4



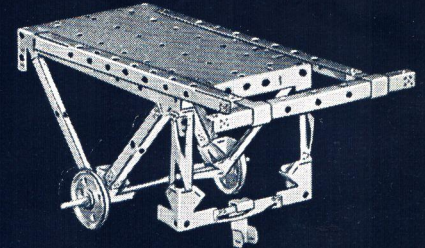
PORTABLE CRANE
For Lifting Heavy Weights, as
in Ship Yards



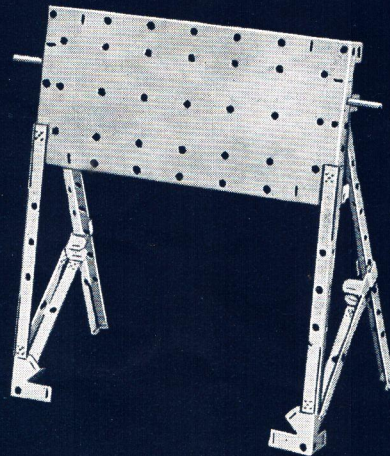
HOT DOG STAND
(Probably Has Ice Cream
Cones Also)



TREE



TEA WAGON



BLACKBOARD

PORTABLE CRANE	
P-4	1
A-0	4
A-1	4
A-2	2
A-3	2
C-0	4
C-90-X	4
C-135-ZR	1
C-135-ZL	1
C-H	1
R-2	2
R-4	1
K	4
W-2	4
AF	1

(String—Not
Supplied)

HOT DOG STAND	
P-4	1
A-0	6
A-1	4
A-2	2
C-0	2
C-90-X	3
C-135-ZR	1
C-135-ZL	1

BLACKBOARD

P-4	1
A-1	2
A-2	2
A-3	2
C-0	2
C-90-X	4
R-4	1

The Rod Holds Two C-90-
X's in Place Behind the
P-4.

Parts required

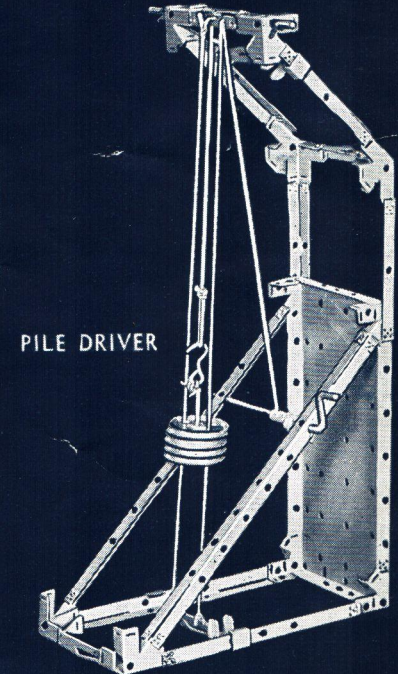
TREE		TEA WAGON	
A-0	4	P-4	1
A-2	1	A-0	3
C-90-X	2	A-1	4
		A-2	1
		A-3	2
		C-0	3
		C-90-X	4
		W-2	2
		R-2	1
		K	2

PILE DRIVER

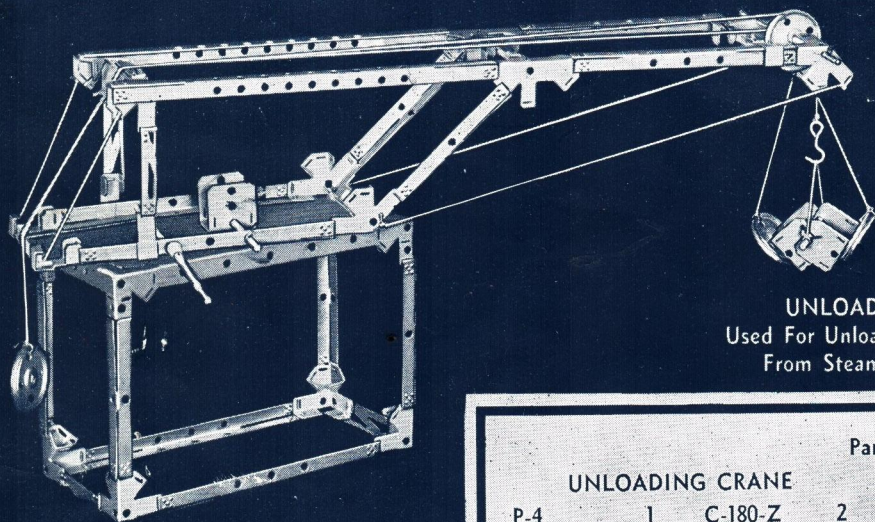
When the Hammer Is Up Unhook and Let It
Drop.

P-4	1	C-135-ZR	1
A-0	5	C-135-ZL	1
A-1	4	W-2	4
A-2	2	R-2	1
A-3	2	C-H	1
C-0	4	K	4
C-90-X	4	AF	1

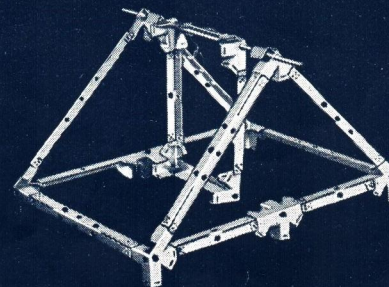
(String—Not Supplied)



PILE DRIVER

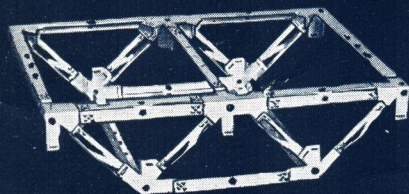
Models built with the *Craftsman Size*

UNLOADING CRANE
Used For Unloading Grain or Coal
From Steamers and Barges



PLAYGROUND SWING

**STEEL SCOW OR
INVERTED BRIDGE TRUSS**



Parts required

UNLOADING CRANE

P-4	1	C-180-Z	2
A-0	8	C-180-DS	3
A-1	7	W-2	4
A-2	6	R-0	1
A-3	2	R-2	2
C-0	6	CH-1	1
C-90-X	6	AF	1
C-135-ZL	2	K	6
C-135-ZR	2	SN	3

String—Not Included

Note: The C-180-DS is pivoted to the base plate P-4 by a snap rivet SN. The wheels W-2 are fastened to the C-180 DS by snap rivets. See Construction Details to make the clam shell bucket.

STEEL SCOW

A-0	8	C-135-ZL	2
A-1	6	C-135-ZR	2
A-2	5	C-180-Z	2
C-90-X	4		

PLAYGROUND SWING

A-0	2	C-135-ZL	2
A-1	6	C-135-ZR	2
A-2	6	C-180-Z	2
C-90-X	6	R-4	1

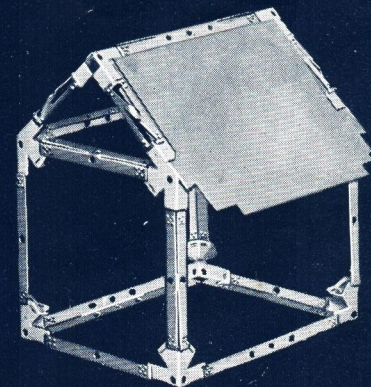
The Craftsman Size MORECRAFT gives you 5 new parts. First there are two new connection members, the C-180-Z and the C-180-DS. Next there is a very useful pulley sheave, W-1. Then there is a new fastening member, the snap rivet, SN by means of which members may be connected through their holes. These rivets are very useful in forming a pivoted joint. The last new element is the special panel insert, by the means of which you may fill in surfaces of your structures to improve their appearance.

Learn all these new parts and their uses from the pictures given at the end of the Manual.

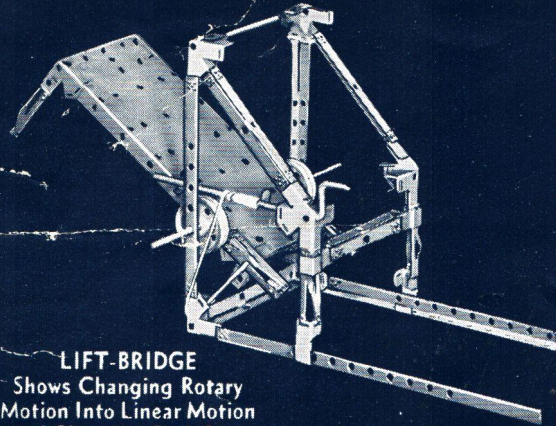
SUMMER HOUSE

A-0	4	C-135-ZL	2
A-1	8	C-135-ZR	2
A-2	5	P-12	2
C-90-X	6		

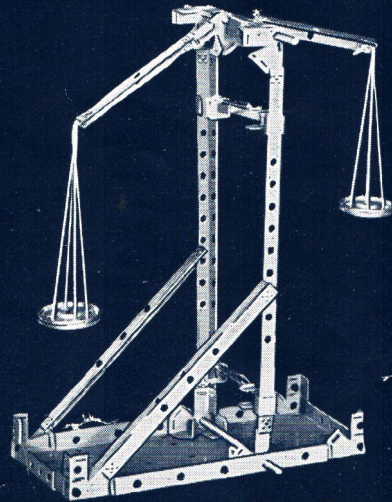
This is the first model to show the use of the panel inserts. See the Construction Details at the end of this Manual.



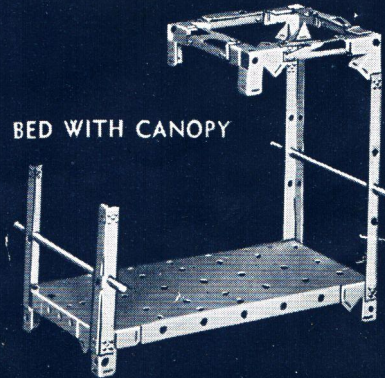
SUMMER HOUSE
Of Modern All Metal Construction



LIFT-BRIDGE
Shows Changing Rotary
Motion Into Linear Motion
and Changing Back Into
Rotary Motion

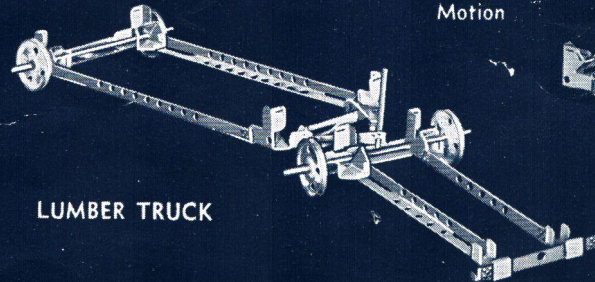


APOTHECARIES' SCALES
Used by the Druggist for
Prescriptions

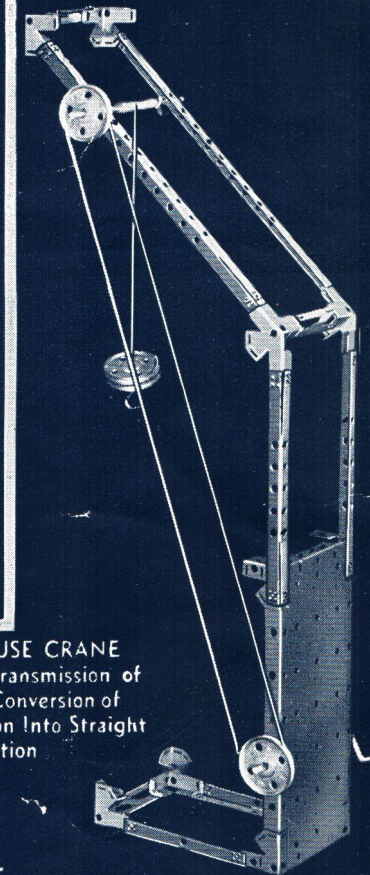


BED WITH CANOPY

Used by Kings and Queens



LUMBER TRUCK



WARE-HOUSE CRANE
Shows Belt Transmission of
Power and Conversion of
Circular Motion Into Straight
Motion

LIFT-BRIDGE				
P-4	1	C-135-ZR	1	
A-0	6	C-135-ZL	1	
A-1	4	W-2	4	
A-2	2	R-2	1	
A-3	2	R-4	1	
C-0	4	CH-1	1	
C-90-X	4	K	4	
(String—Not Supplied)				
APOTHECARIES' SCALES				
P-4	1			
A-0	2			
A-1	2			
A-2	2			
A-3	2			
C-0	4			
C-90-X	4			
C-135-ZR	1			
W-2	2			
R-2	2			
K	4			

BED WITH CANOPY

P-4	1
A-0	4
A-1	2
A-2	2
C-90-X	4
R-2	2
K	4

Parts required

WAREHOUSE CRANE

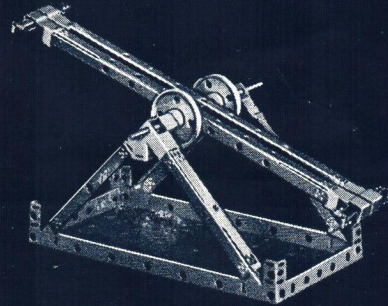
P-4	1	C-135-ZL	1
A-0	3	R-2	1
A-1	3	CH-1	1
A-2	2	W-2	4
A-3	2	AF	1
C-90-X	4	K	4
C-135-ZR	1		

(String—Not Supplied)

LUMBER TRUCK

A-0	4	C-135-ZR	1
A-1	2	C-135-ZL	1
A-2	2	W-2	4
A-3	2	R-0	1
C-0	2	R-2	2
C-90-X	4	K	4

Note: The ends of the two A-0's, connected to the C-135's, are crossed and the end of the R-0 is inserted in a vertical position as shown through their slightly spread ends and between the R-2 and the A-1 of the front truck. See the Construction Details at the end of this Manual.

Models built with the **Beginner Size**

TEETER

TEETER

P-4	1
A-0	2
A-1	4
A-3	2
C-0	4
C-90-X	2
R-2	1
W-2	2

Parts required
PLAYGROUND SLIDE

P-4	1
A-0	5
A-1	2
C-0	4
C-90-X	2

ROPE SWING

P-4	1
A-0	2
A-2	2
A-3	2
C-0	2
C-90-X	4
R-2	1

(String—Not
Supplied)

DOCK HOIST

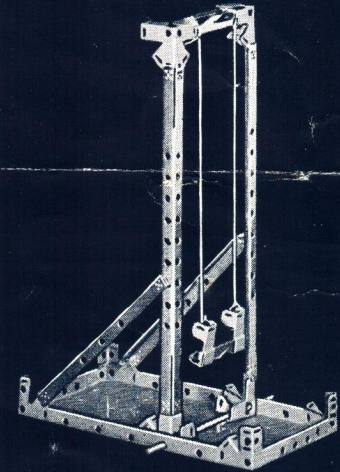
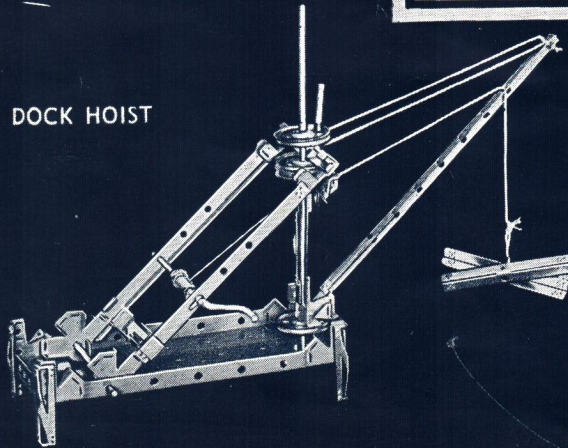
P-4	1	C-135-ZL	1
A-0	6	W-2	4
A-1	3	R-0	1
A-2	2	R-2	1
A-3	1	R-4	1
C-0	4	CH-1	1
C-90-X	2	AF	1
C-135-ZR	1	K	4

(String—Not Supplied)

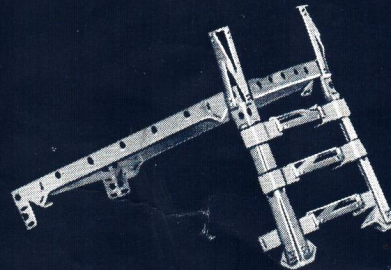
WAGON

P-4	1	C-135-ZR	1
A-0	6	C-135-ZL	1
A-1	3	W-2	4
A-2	2	R-0	1
C-0	2	R-2	2
C-90-X	4	K	4

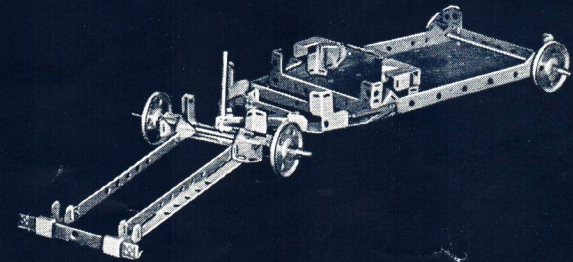
Note: The ends of the two A-0's, connected to the C-135's, are crossed and the end of the R-0 is inserted in a vertical position as shown through their slightly spread ends and between the R-2 and the A-1 of the front truck. The seat and foot rest are simply laid in the positions shown. See the Construction Details at the end of this Manual.

ROPE SWING
(For Your Toy Playground)

DOCK HOIST



PLAYGROUND SLIDE

WAGON
Front Wheels Steer as in a
Real Wagon

MORECRAFT CONSTRUCTION DETAILS

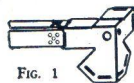


FIG. 1 shows a C-90-X connected to a single angle-member.

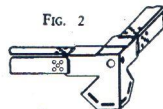


FIG. 2 shows a second angle-member connected at a 90° angle to the first angle-member.

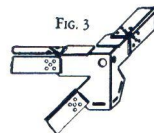


FIG. 3 shows a third angle-member connected to the same connector at an angle of 45° to the first angle-member.

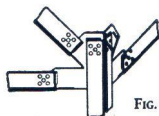


FIG. 4 shows a fourth angle-member reverse connected to the connector C-90-X. This is a detail found in a large number of the MORECRAFT models.



FIG. 5 shows two angle-members connected to a straight-angle connector C-180-Z. This type of connector is used whenever it is desired to make a long structure. The additional slots of the connector provide for bracing as shown in FIG. 6.

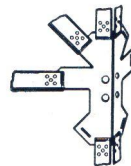


FIG. 6.

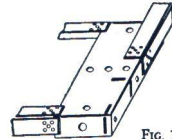


FIG. 7 shows a boom end, C-360. This connector as shown permits connecting angle-members at right angles to the boom.

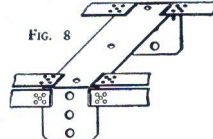


FIG. 8 shows a double straight angle connector, C-180-D, as used to extend the length of a double boom. A similar connector, the C-180-DS, (see MORECRAFT PARTS) is used the same as the connector shown here.

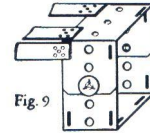


FIG. 9 shows the use of the C-180-D connector as the pivoted end of a boom. The lower and upper connectors may be pivoted by the snap rivets shown or by a rod or bolted as described in FIG. 26.

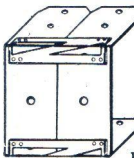


FIG. 10

FIG. 10 shows the use of A-O's to connect two C-180-D's. Other connections may be similarly connected. See FIG. 11



FIG. 11.

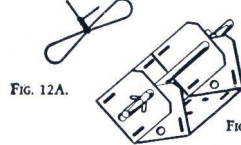


FIG. 12A.

FIG. 12 shows how to make a clam-shell-bucket for use with your derricks, etc., using two C-180-D's. The end of the hoist line may be tied as shown in FIG. 12A and one loop slipped over each end of the rod.



FIG. 12B.

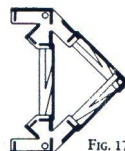


FIG. 17

FIG. 17 and FIG. 17A are plan and side views, respectively, of the arrangement for connecting the front axle pivot in the LUMBER TRUCK and WAGON models for the BEGINNER SIZE. The lower end of the rod is inserted between the axle rod and the angle-member of the front truck.

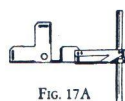


FIG. 17A

FIG. 18 shows how to connect the upper end of the pivot rod of the model of the STIFF-LEGGED DERRICK shown for the BEGINNER SIZE. An A-O is connected to the corner of the base plate, P-4, under the A-O shown and the lower end of the rod passes between its ends. A wheel should be placed on the rod over each C-O.



FIG. 18

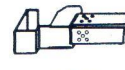


FIG. 13

FIG. 13 shows the C-O, which is the most useful MORECRAFT connector. FIG. 14 shows a C-O in each of four positions on an angle-member to permit the attachment of an angle-member in each of four directions. The end C-O's prevent the angle-member upon which they are mounted, being detached. FIG. 15 shows how it is possible to locate a shaft rod in any desired position regardless of hole spacings.

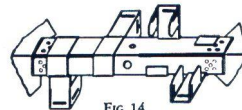


FIG. 14.

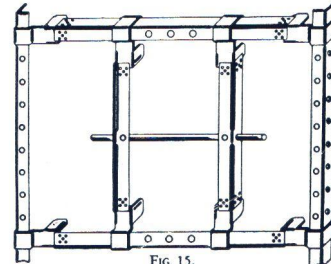


FIG. 15.



FIG. 16

FIGS. 16 and 16A show how to form the hub used in the WHIRLIGIG and CLOTHES REEL models built with the BEGINNER SIZE. Put a rod through the holes in the tops of a pair of C-135-Z connectors. Rotate them into the position shown in FIG. 16. Then force them together as shown in FIG. 16A. Four angle-members may be connected to the two connectors.

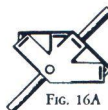


FIG. 16A

FIGS. 19 and 19A show the use of the MORECRAFT Key K, to fasten a MORECRAFT wheel W-2, to a rod. Place the key upon the rod where it is desired to have the wheel, then slide the wheel over the tongue of the key until it is held firmly in position.

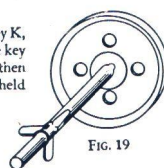


FIG. 19



FIG. 19A

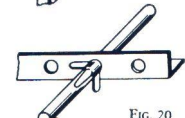


FIG. 20

FIG. 20 shows the use of a key to limit the motion of a rod lengthwise yet permit it to rotate freely.

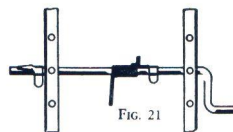


FIG. 21

FIG. 21 shows how to use a key to fasten the end of a string to wind it upon a crank, CH.

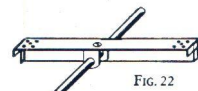


FIG. 22

FIG. 22 shows how to fasten an angle-member to a shaft rod. The screw of a collar is removed and the rod is inserted through the collar and one of a pair of holes of an angle-member. Then the screw is inserted through the other hole in the angle-member and tightened to hold the member in the desired position. A connector may be similarly secured. An example of this use is the HAND CAR built with the DESIGNER SIZE.

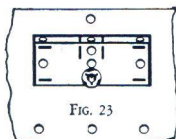


FIG. 23

FIG. 23 shows how to use the snap rivet. The pieces to be joined are placed with holes in alignment and the rivet is inserted with thumb pressure. Use of a single rivet permits a swivel action to be obtained.

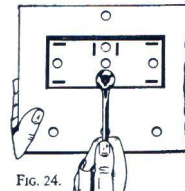


FIG. 24.

FIG. 24 shows the use of the HANDY RIVET EXTRACTOR to remove the rivets



After use snap rivets may become compressed and thus lose their tension. To remedy this, insert the prong of the rivet extractor between the slot portions of the rivet and spread them open as shown in FIG. 25

To lock two nuts in place put them upon a bolt inserted through holes in the members to be joined and turn in opposite directions as shown by the arrows in FIG. 26. This may be done by the use of the two wrenches furnished with all MORECRAFT SETS supplied with nuts and bolts.



FIG. 26.

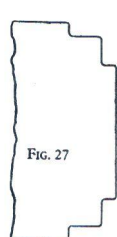


FIG. 27

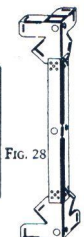


FIG. 28

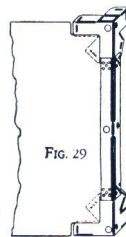


FIG. 29

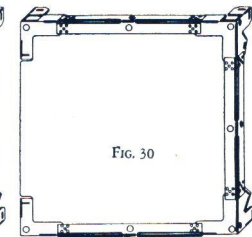


FIG. 30

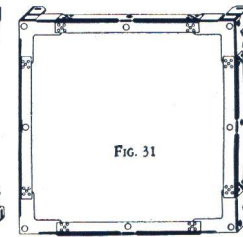
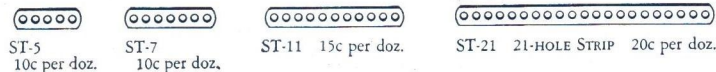
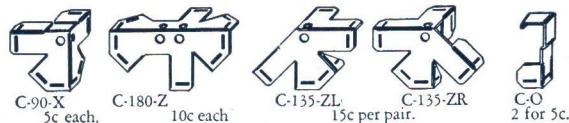


FIG. 31

The above FIGS. show how to use the MORECRAFT PANEL INSERT. The corners are to be placed on top of the connectors and the sides are to be below the angle-members. First, place the panel shown in FIG. 27, with the assembly shown in FIG. 28, as shown in FIG. 29, then add the parts shown in FIG. 30, and, last, complete by connecting the left-hand corners with an angle-member.

MORECRAFT SEPARATE PARTS

CONNECTORS



NOTE: The number of holes in the angle-members shown in the pictures of the MORECRAFT models may be different from those shown above. If the model shows 3 holes, the member is an A-2; and if it shows 5 holes, it may be either an A-2 or an A-3.



SNAP RIVET

Hook

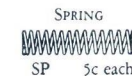
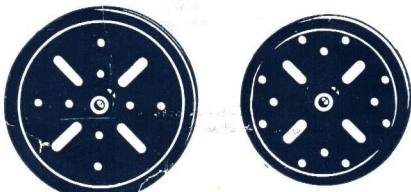
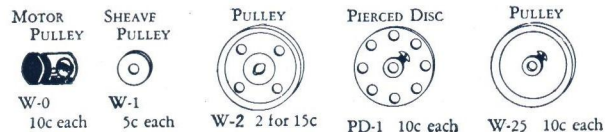


ANGLE BRACKETS

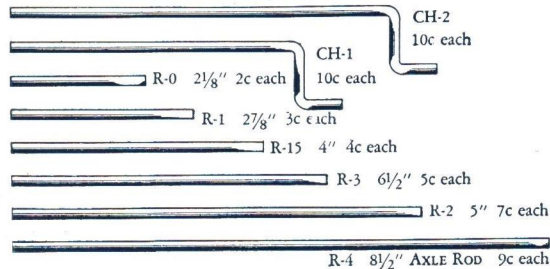
MOTOR SUPPORT BRACKET



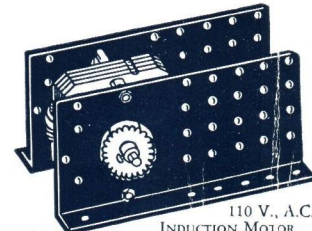
GEARS PULLEYS AND WHEELS



RODS AND CRANKS



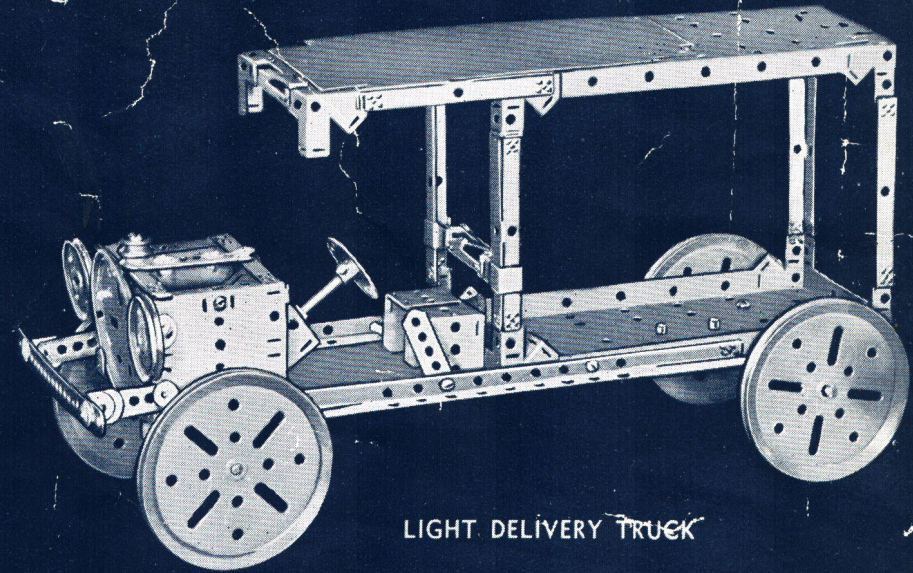
GRADUATE SIZE WOODEN CABINET



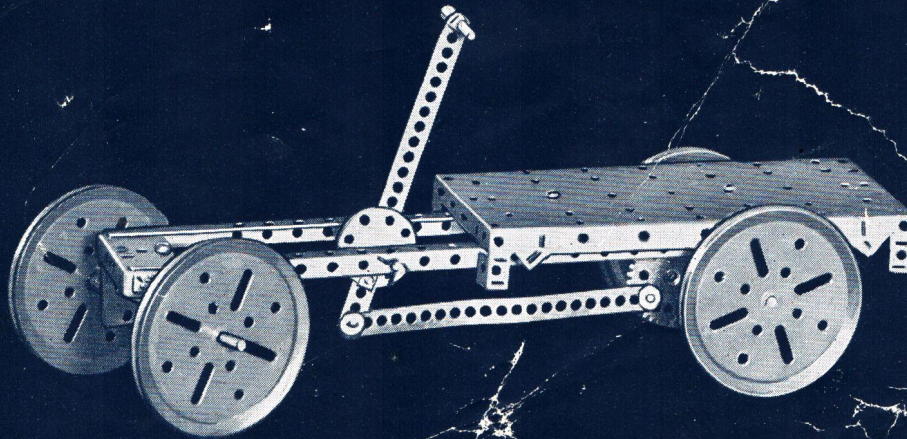
Many dealers carry Separate Morecraft Parts. If your dealer cannot supply you, send check, money order, or stamps for the parts you want and we will send your order to you postpaid.

THE SKIPPER TOY COMPANY, INC.
BRANFORD, CONN., U.S.A.

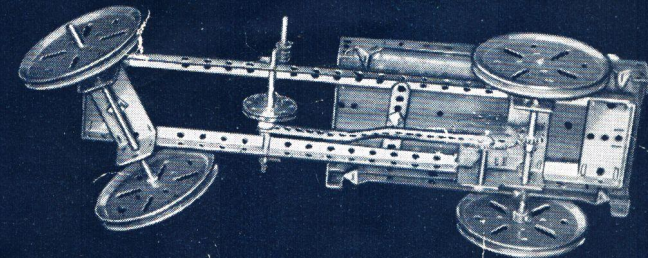
Note: To improve the appearance of the LIGHT DELIVERY TRUCK shown to the right insert panels P-12 into the sides to form a closed delivery wagon. See Construction Details at the end of this Manual.



LIGHT DELIVERY TRUCK



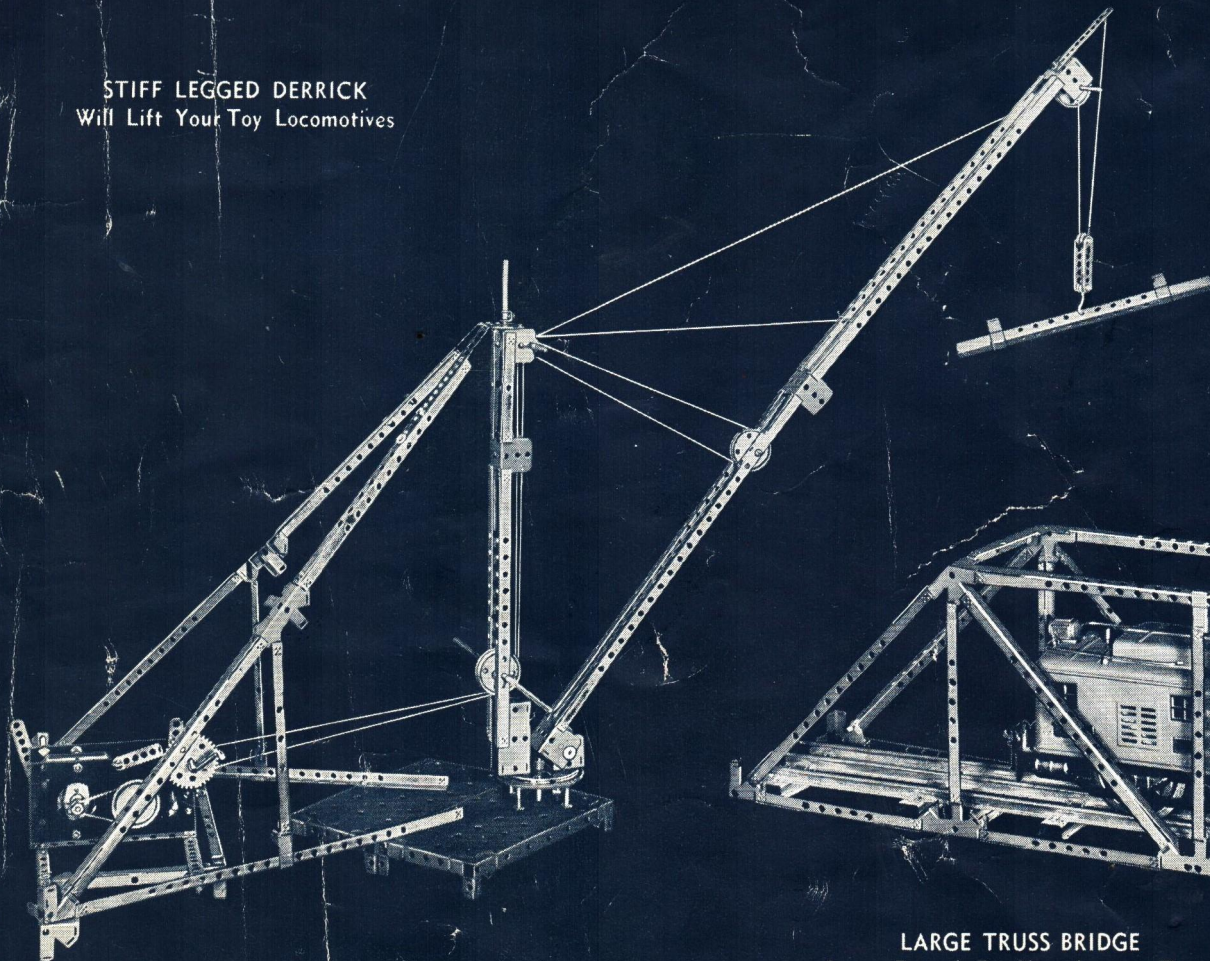
IRISH MAIL
Geared Just Like the Real Ones
See Detailed View to the Right



DETAIL OF IRISH MAIL
Shown to the Left. For Further Details
See Your Blueprints.

Models built with the **Graduate Size**

STIFF LEGGED DERRICK
Will Lift Your Toy Locomotives

**GRADUATE SIZE**

This is to introduce the **GRADUATE SIZE MORE-CRAFT**. You have in this set a large amount of material. You have had three joining methods. You have learned to read blueprints. Therefore you are ready to proceed in the field of Invention and Engineering. Your opportunity to construct new and interesting models is limitless. A number of such models have been worked out for you. Two are given on this page. The Stiff Legged Derrick is motor driven. Try to work out a way to drive both the boom and the hook from the motor. The bridge is large enough for your largest train. However, you may make it longer or wider if you want to. Also you can put it up on abutments or make it a draw bridge. Use your blueprints as much as possible.

LARGE TRUSS BRIDGE
Large Enough For Your Largest Train

