



instruction manual

No. 232 No. 343 No. 454

LIONEL
Construction
Kits

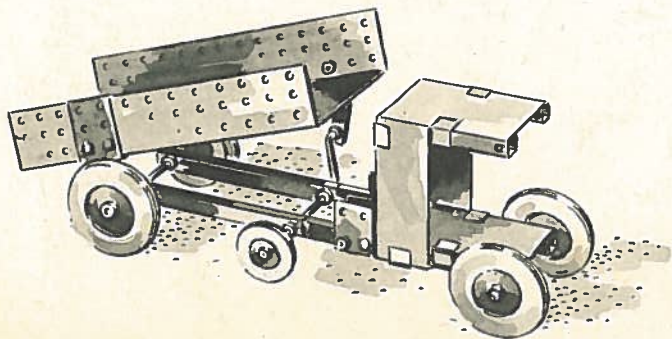
LIONEL Construction Kits

Made by the makers of the famous LIONEL TRAINS

The new LIONEL CONSTRUCTION KIT which you have just opened is the finest set of its kind in the world. The following pages show you, by means of easy-to-follow keyed illustrations, how simple it is to make exciting models which will be the envy of your neighborhood. The instructions below will give you a few do's and don'ts. Read them before you begin construction.

It is of the utmost importance that you READ THIS MANUAL CAREFULLY AND STUDY THE ENCLOSED CHART BEFORE STARTING TO BUILD ANY MODELS. Familiarize yourself with the names of various parts so that when directions call for Outer Tubes, Strips, Gussets, Hubs, etc., you will be able to find these items quickly in the Construction Kit box.

When you begin to build keep the Parts Chart handy so that you will be able to refer to it for guidance when necessary. As you become more and more proficient in your model making, you'll probably need to refer to the parts list only occasionally. However, DO



NOT THROW AWAY THE CHART, even though you're certain you've memorized all the names. You'll find the chart is an invaluable aid in making Construction Kit models.

DO NOT ATTEMPT TO BUILD COMPLEX MODELS AT FIRST. Try your hand at something simple, like the Table and Chair, or the Playground Slide. These and similar designs will give you practice in attaching Tubing Members, Grommets, Clips, etc., enabling you to familiarize yourself with the basic building techniques which are found in the larger models.

When you examine the parts you will notice that structural members are square tubing, simulating the construction elements used in industry. That's one reason why many of the models you make will be so realistic, so life-like. Just as in real building, the Cranes, Derricks, Bridges, etc., which you put together will have depth and dimension, making them absolutely authentic.

And now, study the Parts Chart, look over the diagrams and then select your model. You'll be delighted when you discover how fascinating this building game can be with your LIONEL CONSTRUCTION KIT!

THE LIONEL CORPORATION

15 EAST 26th STREET

NEW YORK 10, N. Y.

They're simple and easy to make!

Towers, Hoists, Conveyors, Derricks—these and hundreds of other pieces come to life as you put them together, step-by-step, with your Lionel Construction Kit. There's no fun in the world like the thrill you'll get building scores of these life-like models.

In addition to the items illustrated in this manual you'll probably be able to create many brand-new models, because Construction Kits are designed for complete flexibility of building.

The reason for this is the revolutionary technique of assembly. Tubing members attach to sub-assemblies in a variety of angles, and lengths can be adjusted to a nearly limitless number of combinations. That means almost complete building freedom.

Assembly and take-apart are amazingly fast because of the rivet-and-grommet method of construction, described and illustrated below.

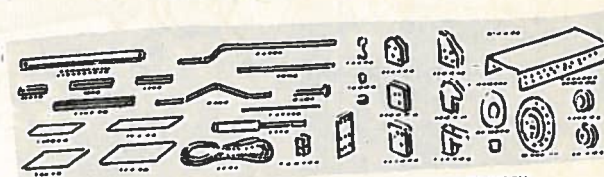
Here's the secret of jiffy-building with the Lionel rivet-and-grommet method! Rivet slides through holes in tubing members, is locked in place by rubber grommet which slips over projecting end. Cumbersome nuts and bolts are entirely eliminated!



Oh Boy!

NO NUTS OR BOLTS
This is New!

LIONEL CONSTRUCTION KITS PART AND SUBASSEMBLY
HOW TO BUILD AND MATE THE PARTS



**USE THE ENCLOSED CHART AS A GUIDE
WHEN YOU BUILD MODELS.**

The separate Chart included with this manual is an invaluable aid in making Construction Kit models. All parts and their sizes are illustrated and identified.

Sub-assemblies and the various methods of attaching tubes to gussets, etc., are shown in simplified drawings. Diagrams for wiring the electric motor to models which can be power-operated are also included in this chart. Keep it as a handy reference guide.

DO NOT THROW CHART AWAY!

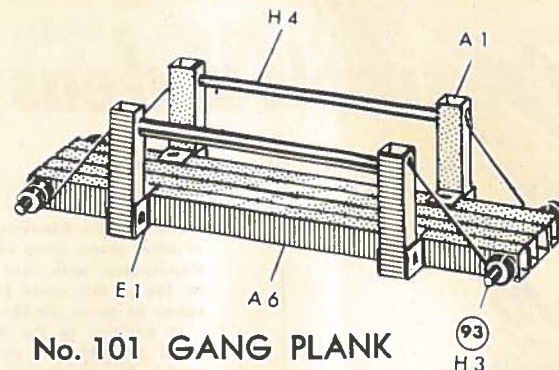
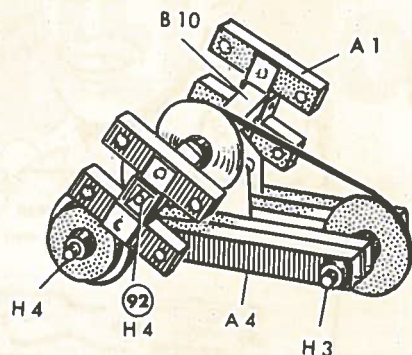
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 100 GUTTER BRUSH

- A 1 — 4 Outer Tubes
- A 4 — 4 Outer Tubes
- B 10 — 2 Joining Tubes
- D 3 — 1 Gusset
- E 1 — 4 Connecting Clips
- G 1 — 2 Wheels
- H 10 — 2 Pulleys
- H 3 — 1 Axle
- H 4 — 2 Axles

TOTAL pcs. 22

F 10 — 10 Rubber Grommets

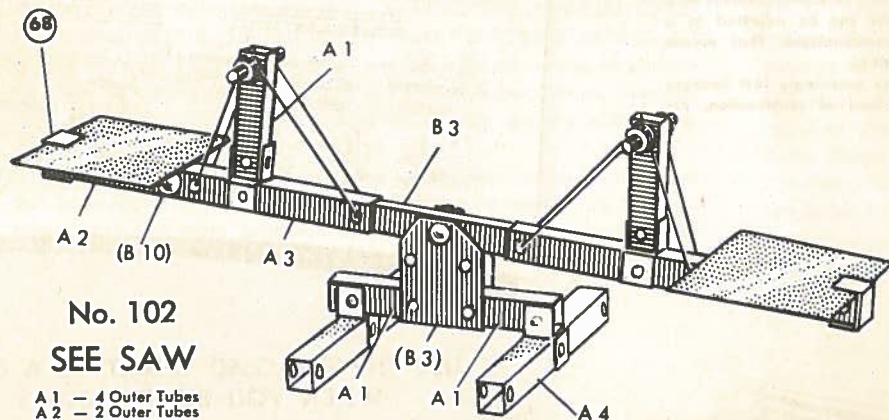


No. 101 GANG PLANK

- A 1 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- E 1 — 4 Connecting Clips
- H 3 — 2 Axles
- H 4 — 2 Axles

TOTAL pcs. 16

F 10 — 8 Rubber Grommets

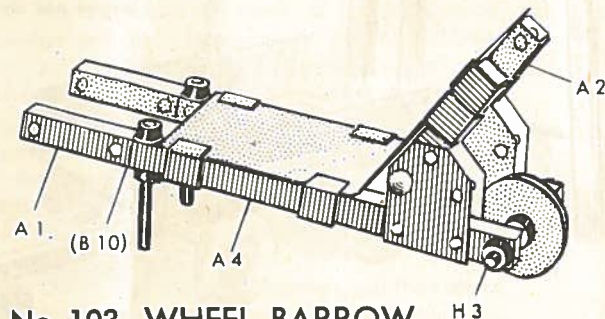


No. 102 SEE SAW

- A 1 — 4 Outer Tubes
- A 2 — 2 Outer Tubes
- A 3 — 2 Outer Tubes
- A 4 — 2 Outer Tubes
- B 3 — 2 Inner Tubes
- B 10 — 2 Joining Tubes
- C 20 — 2 Plate
- D 3 — 1 Gusset
- E 1 — 4 Connecting Clips
- E 3 — 2 Plain Clips
- H 2 — 2 Axles

TOTAL pcs. 25

F 1 — 3 Rivets
F 10 — 7 Rubber Grommets



No. 103 WHEEL BARROW

- A 1 — 4 Outer Tubes
- A 2 — 2 Outer Tubes
- A 3 — 2 Outer Tubes
- B 3 — 2 Inner Tubes
- B 10 — 2 Joining Tubes
- C 20 — 2 Plates
- D 3 — 2 Gussets
- E 3 — 8 Plain Clips
- G 10 — 2 Pulleys
- H 2 — 2 Axles
- H 3 — 1 Axle

TOTAL pcs. 29

F 1 — 2 Rivets
F 10 — 10 Rubber Grommets

PLEASE NOTE —

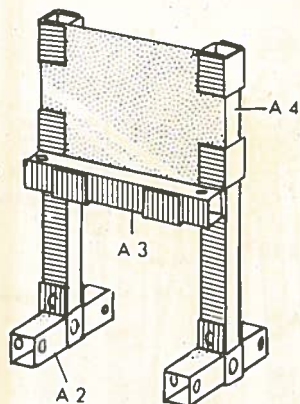
Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

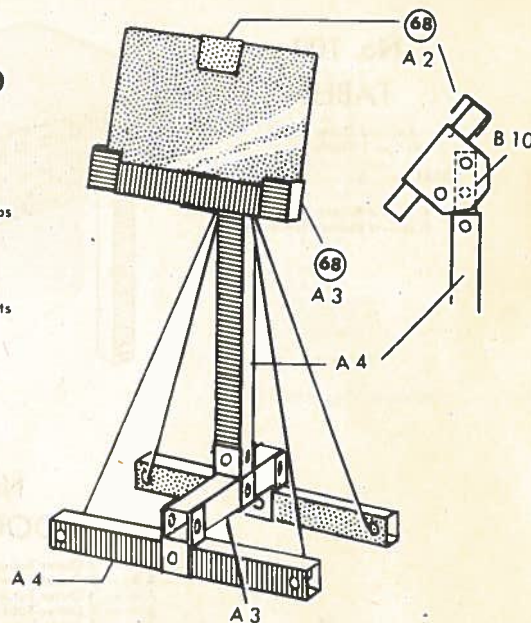
No. 104 BLACKBOARD



- A 2 - 2 Outer Tubes
- A 3 - 1 Outer Tube
- A 4 - 2 Outer Tubes
- C 20 - 1 Plate
- E 1 - 2 Connecting Clips
- E 3 - 6 Plain Clips

TOTAL pcs. 14

No. 105 MUSIC STAND

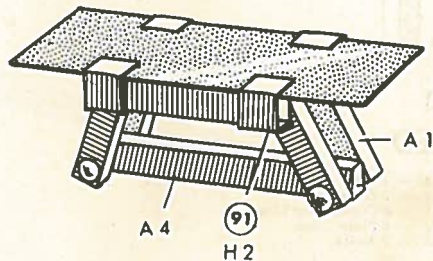


- A 2 - 1 Outer Tube
- A 3 - 2 Outer Tubes
- A 4 - 3 Outer Tubes
- B 10 - 1 Joining Tube
- C 20 - 1 Plate
- D 3 - 1 Gusset
- E 1 - 3 Connecting Clips
- E 3 - 4 Plain Clips

TOTAL pcs. 16

- F 1 - 3 Rivets
- F 10 - 3 Rubber Grommets

No. 106 BAGGAGE TRUCK



- A 2 - 2 Outer Tubes
- A 4 - 1 Outer Tube
- C 20 - 2 Plates
- C 21 - 1 Plate
- E 3 - 8 Plain Clips
- G 1 - 4 Wheels
- H 4 - 2 Axles

TOTAL pcs. 20

- F 10 - 8 Rubber Grommets

No. 107 TABLE

- A 1 - 4 Outer Tubes
- A 3 - 2 Outer Tubes
- A 4 - 1 Outer Tube
- C 21 - 1 Plate
- E 3 - 4 Plain Clips
- H 2 - 2 Axles

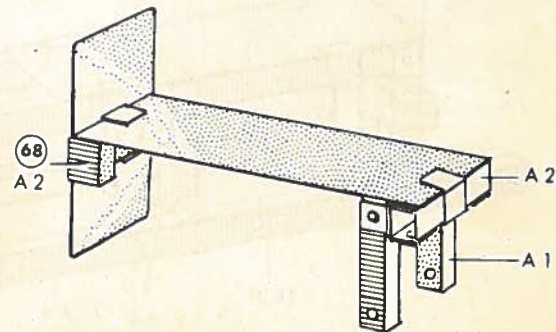
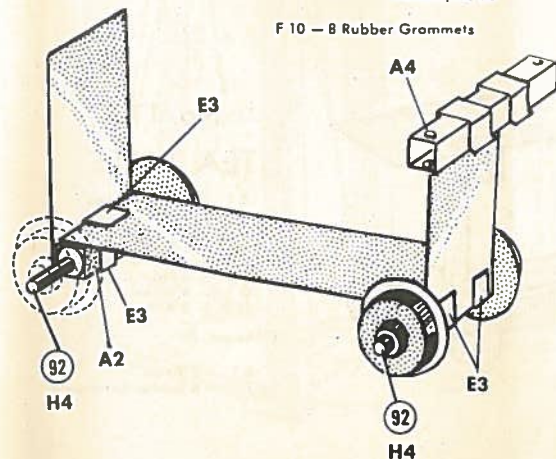
TOTAL pcs. 14

- F 1 - 4 Rivets
- F 10 - 8 Rubber Grommets

No. 108 BED

- A 1 - 2 Outer Tubes
- A 2 - 2 Outer Tubes
- C 20 - 1 Plate
- C 21 - 1 Plate
- E 1 - 2 Connecting Clips
- E 3 - 4 Plain Clips

TOTAL pcs. 12



PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

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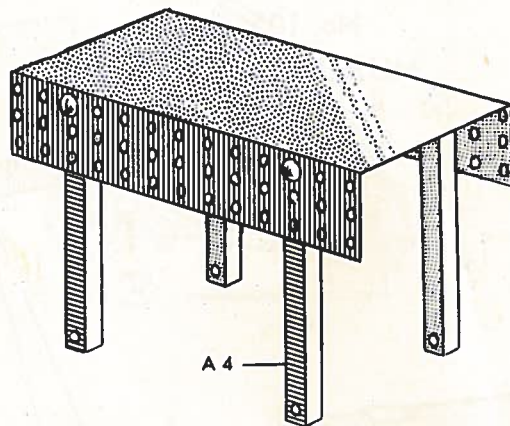
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 109 TABLE

A 4 — 4 Outer Tubes
N 1 — 1 Platform

TOTAL pcs. 5

F 1 — 4 Rivets
F 10 — 4 Rubber Grammets



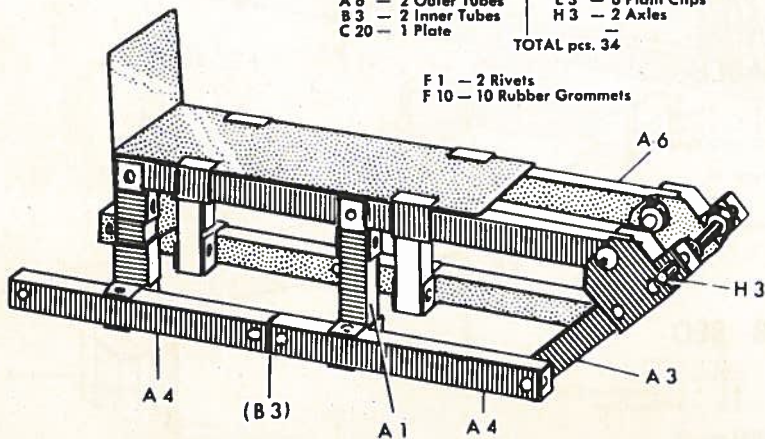
A 4

No. 111 DOG SLED

A 1 — 4 Outer Tubes
A 3 — 2 Outer Tubes
A 4 — 4 Outer Tubes
A 6 — 2 Outer Tubes
B 3 — 2 Inner Tubes
C 20 — 1 Plate
C 21 — 1 Plate
D 1 — 2 Gussets
E 1 — 8 Connecting Clips
E 3 — 6 Plain Clips
H 3 — 2 Axles

TOTAL pcs. 34

F 1 — 2 Rivets
F 10 — 10 Rubber Grammets



(B 3)

A 1

A 4

A 3

A 6

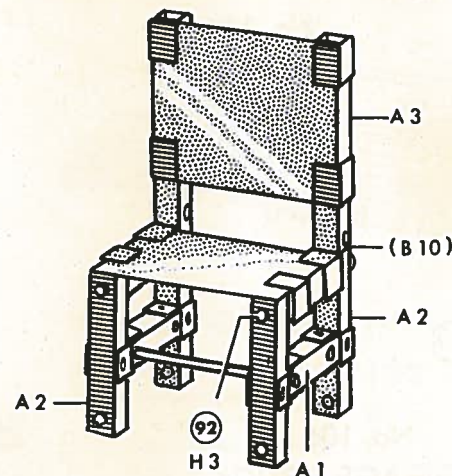
H 3

No. 110 CHAIR

A 1 — 4 Outer Tubes
A 2 — 4 Outer Tubes
A 3 — 2 Outer Tubes
B 10 — 2 Joining Tubes
C 20 — 2 Plates
E 1 — 4 Connecting Clips
E 3 — 8 Plain Clips
H 3 — 3 Axles

TOTAL pcs. 29

F 10 — 10 Rubber Grammets



(B 10)

A 2

A 1

H 3

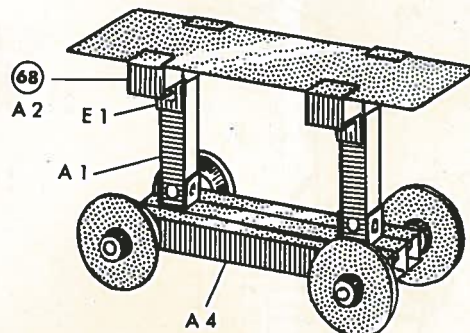
92

No. 112 TEA TABLE

A 1 — 2 Outer Tubes
A 2 — 2 Outer Tubes
A 4 — 3 Outer Tubes
C 21 — 1 Plate
E 1 — 4 Connecting Clips
E 3 — 4 Plain Clips
G 1 — 4 Wheels
H 3 — 2 Axles

TOTAL pcs. 22

F 1 — 2 Rivets
F 10 — 8 Rubber Grammets



68

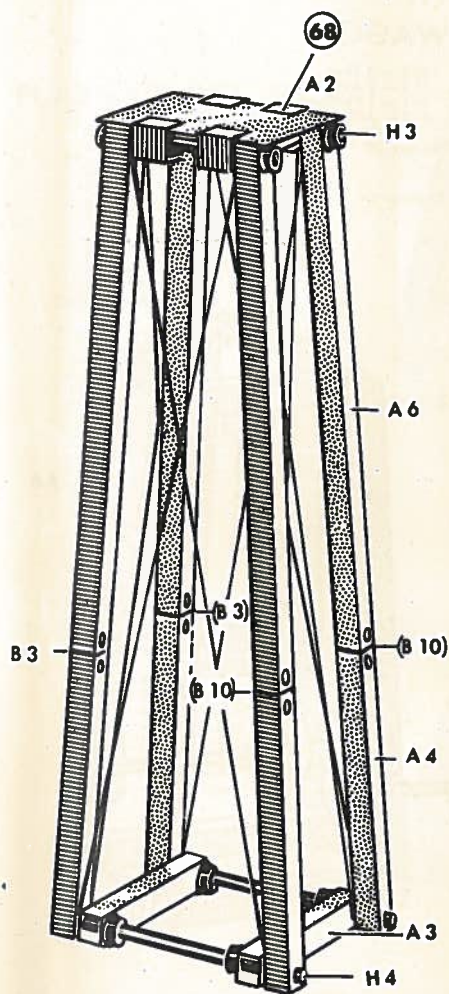
A 2

E 1

A 1

A 4

MODELS MADE WITH LIONEL CONSTRUCTION KITS

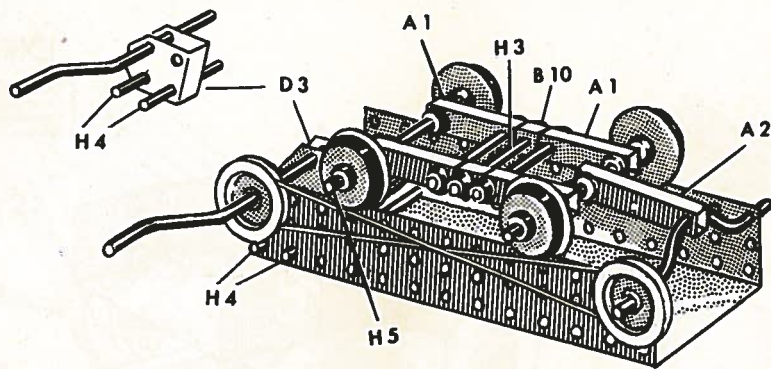


**No. 114
FIRE TOWER**

- A 2 - 2 Outer Tubes
- A 3 - 2 Outer Tubes
- A 4 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 2 Inner Tubes
- B 10 - 2 Joining Tubes
- C 20 - 1 Plate
- E 3 - 4 Plain Clips
- H 3 - 2 Axles
- H 4 - 2 Axles

TOTAL pcs. 25

F 10 - 12 Rubber Grommets

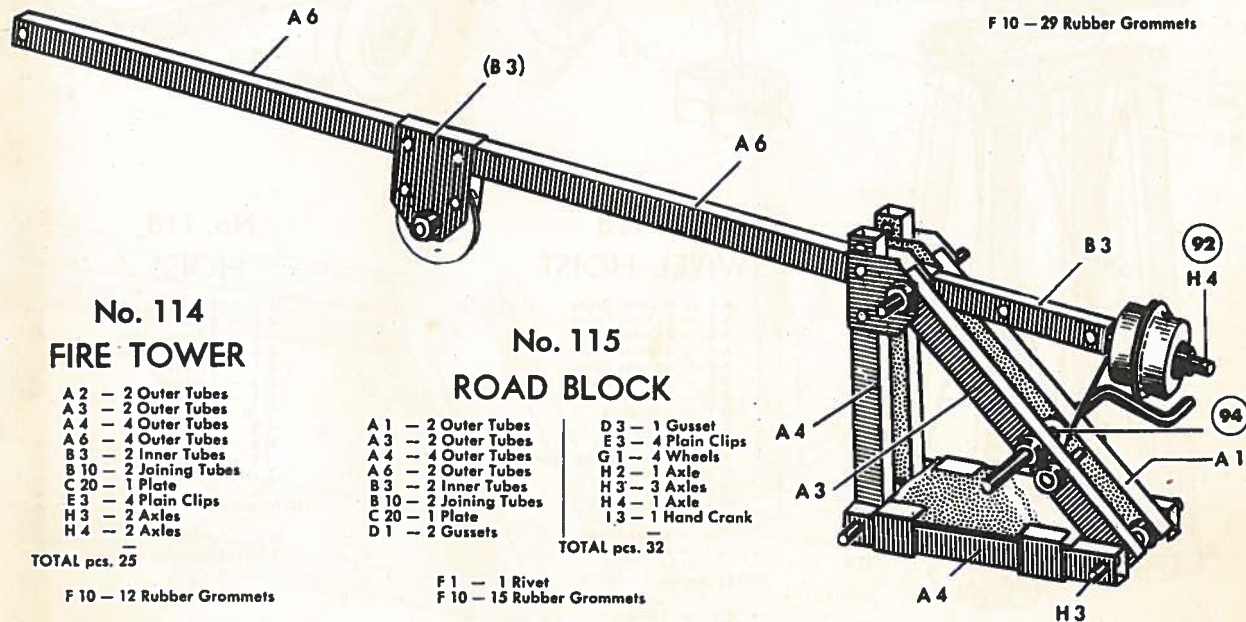


**No. 113
GRAVEL SIFTER**

- A 1 - 4 Outer Tubes
- A 2 - 1 Outer Tube
- B 10 - 2 Joining Tubes
- D 3 - 1 Gusset
- G 1 - 4 Wheels
- G 10 - 2 Pulleys
- H 3 - 3 Axles
- H 4 - 2 Axles
- H 5 - 2 Axles
- I 3 - 1 Handcrank
- K 1 - 1 Crankshaft
- N 1 - 1 Platform

TOTAL pcs. 24

F 10 - 29 Rubber Grommets



**No. 115
ROAD BLOCK**

- A 1 - 2 Outer Tubes
- A 3 - 2 Outer Tubes
- A 4 - 4 Outer Tubes
- A 6 - 2 Outer Tubes
- B 3 - 2 Inner Tubes
- B 10 - 2 Joining Tubes
- C 20 - 1 Plate
- D 1 - 2 Gussets
- D 3 - 1 Gusset
- E 3 - 4 Plain Clips
- G 1 - 4 Wheels
- H 2 - 1 Axle
- H 3 - 3 Axles
- H 4 - 1 Axle
- I 3 - 1 Hand Crank

TOTAL pcs. 32

F 1 - 1 Rivet
F 10 - 15 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

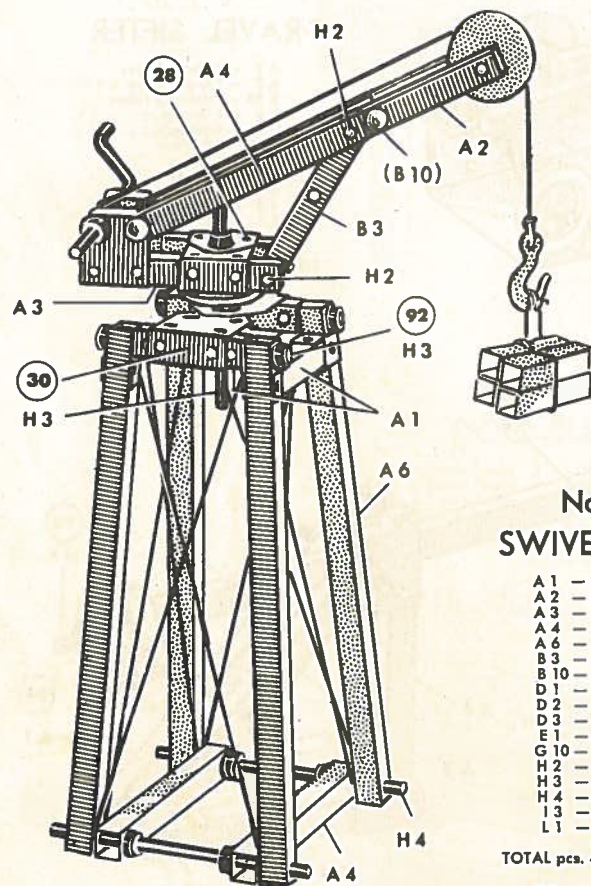
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 117 EXPRESS WAGON

- | | |
|-------------------------|-----------------------------|
| A 4 - 2 Outer Tubes | G 3 - 4 Tires |
| B 3 - 2 Inner Tubes | H 5 - 2 Axles |
| E 1 - 1 Connecting Clip | N 1 - 1 Platform |
| G 1 - 4 Wheels | N 2 - 4 Plat. Att. Fittings |

TOTAL pcs. 20

- F 1 - 10 Rivets
F 10 - 22 Rubber Grommets

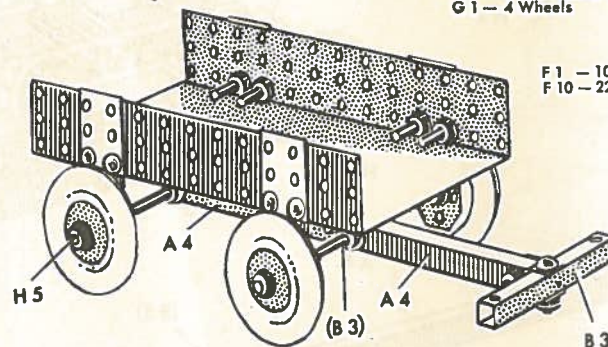


No. 116 SWIVEL HOIST

- A 1 - 4 Outer Tubes
- A 2 - 2 Outer Tubes
- A 3 - 2 Outer Tubes
- A 4 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 1 Inner Tube
- B 10 - 2 Joining Tubes
- D 1 - 2 Gussets
- D 2 - 2 Gussets
- D 3 - 2 Gussets
- E 1 - 4 Connecting Clips
- G 10 - 2 Pulleys
- H 2 - 3 Axles
- H 3 - 3 Axles
- H 4 - 2 Axles
- L 3 - 1 Handcrank
- L 1 - 1 Hook

TOTAL pcs. 41

- F 1 - 4 Rivets
F 10 - 20 Rubber Grommets

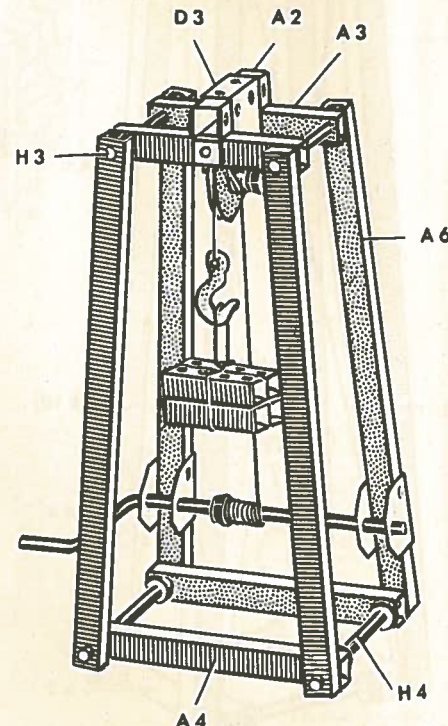


No. 118 HOIST

- A 2 - 1 Outer Tube
- A 3 - 2 Outer Tubes
- A 4 - 2 Outer Tubes
- A 6 - 4 Outer Tubes
- D 1 - 2 Gussets
- D 3 - 1 Gusset
- E 1 - 2 Connecting Clips
- G 10 - 1 Pulley
- H 3 - 2 Axles
- H 4 - 2 Axles
- L 3 - 1 Hand Crank
- L 1 - 1 Hook

TOTAL pcs. 21

- F 1 - 1 Rivet
F 10 - 10 Rubber Grommets



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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

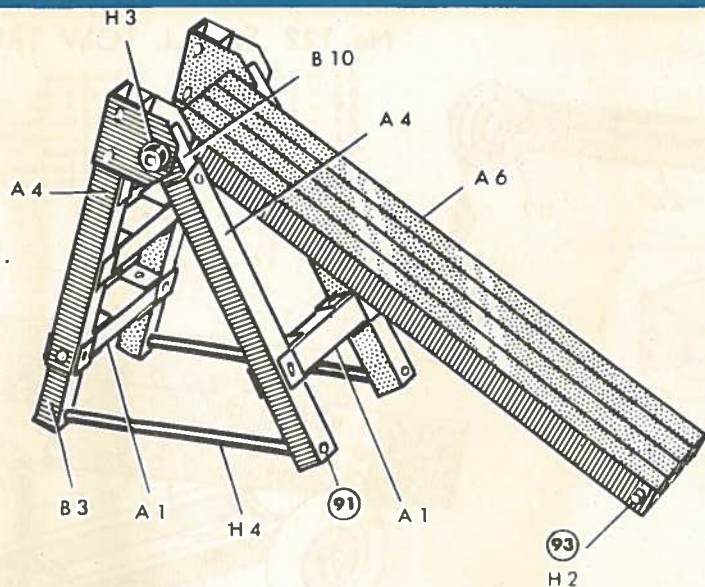
No. 119

PLAYGROUND SLIDE

- A 1 — 4 Outer Rings
- A 4 — 4 Outer Rings
- A 6 — 4 Outer Rings
- B 3 — 2 Inner Rings
- B 10 — 2 Joining Rings
- D 1 — 2 Gussets
- E 1 — 8 Connecting Clips
- H 2 — 1 Axle
- H 3 — 1 Axle
- H 4 — 2 Axles

TOTAL pcs. 30

F 10 — 8 Rubber Grommets



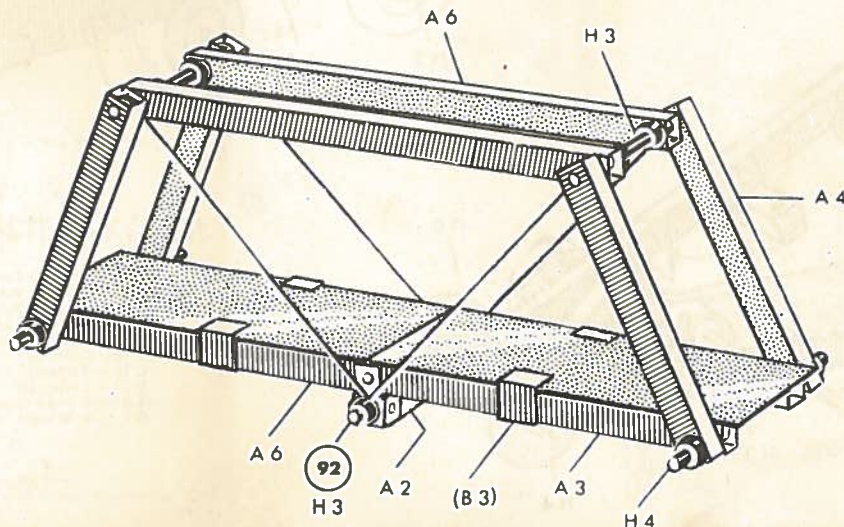
No. 121

BRIDGE

- A 2 — 1 Outer Tube
- A 3 — 2 Outer Tubes
- A 4 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 3 — 2 Inner Tubes
- C 21 — 2 Plates
- E 1 — 2 Connecting Clips
- E 3 — 4 Plain Clips
- H 3 — 3 Axles
- H 4 — 2 Axles

TOTAL pcs. 26

F 10 — 14 Rubber Grommets



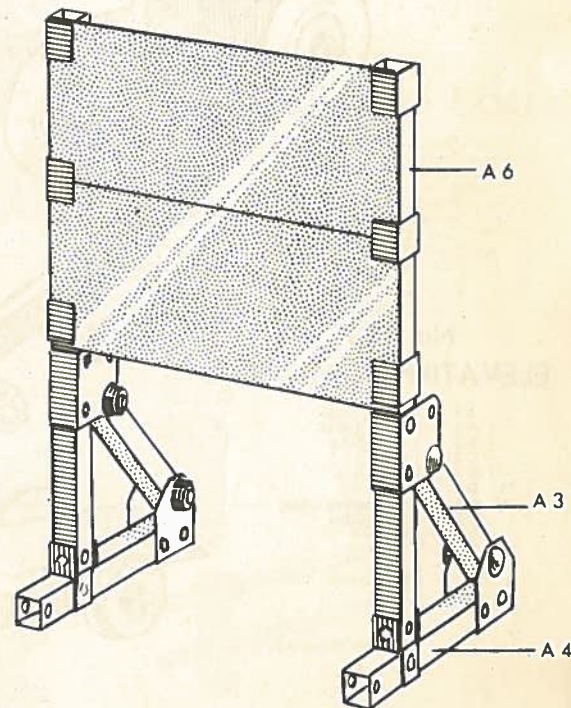
No. 120

BILLBOARD

- | | |
|---------------------|--------------------------|
| A 3 — 2 Outer Tubes | D 1 — 2 Gussets |
| A 4 — 2 Outer Tubes | D 2 — 2 Gussets |
| A 6 — 2 Outer Tubes | E 1 — 2 Connecting Clips |
| C 21 — 2 Plates | E 3 — 6 Plain Clips |

TOTAL pcs. 20

- F 1 — 4 Rivets
- F 10 — 4 Rubber Grommets



PLEASE NOTE —

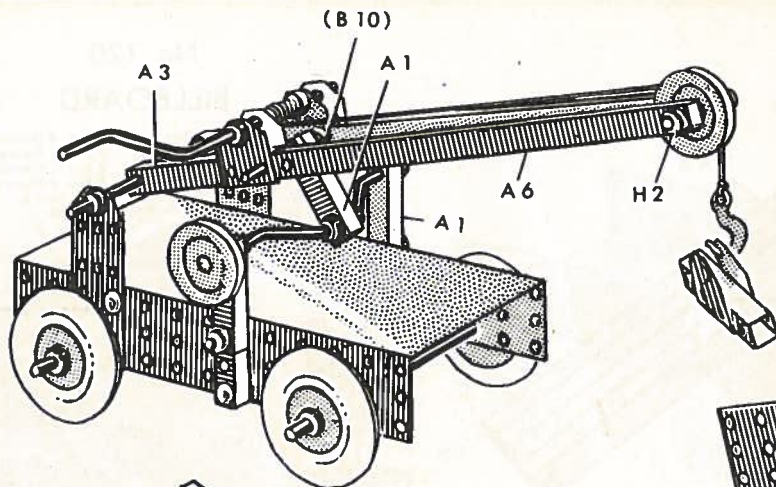
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MODELS MADE WITH LIONEL CONSTRUCTION KITS

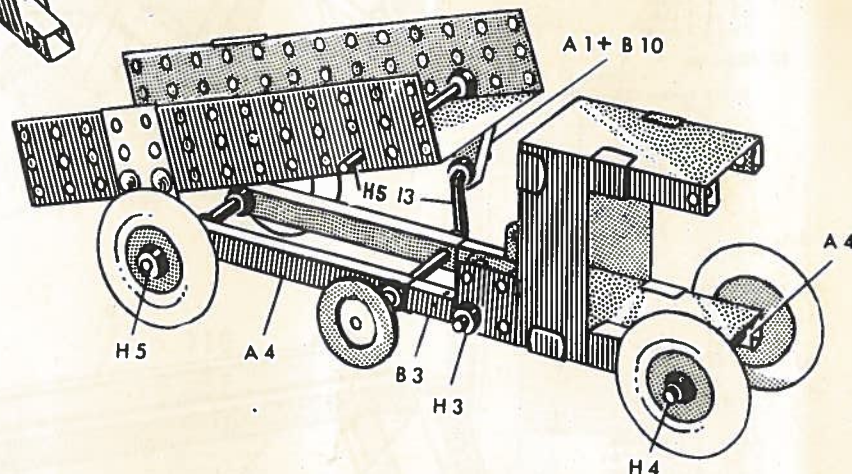
No. 122 SMALL TOW TRUCK



- | | |
|---------------------|---------------------------|
| A 1 — 1 Outer Tube | H 3 — 1 Axle |
| A 3 — 2 Outer Tubes | H 5 — 2 Axles |
| A 6 — 2 Outer Tubes | H 6 — 2 Axles |
| B 4 — 2 Inner Tubes | I 3 — 1 Handcrank |
| D 1 — 2 Gussets | K 1 — 1 Crankshaft |
| G 1 — 4 Wheels | L 1 — 1 Hook |
| G 3 — 4 Tires | N 1 — 1 Platform |
| G 10 — 2 Pulleys | N 2 — 4 Platform Fittings |
| H 2 — 1 Axle | |

TOTAL pcs. 33

- F 1 — 4 Rivets
F 10 — 30 Rubber Grommets



No. 124 DUMP TRUCK

- | | |
|-----------------------|---------------------------|
| A 1 — 1 Outer Tube | G 3 — 4 Tires |
| A 3 — 2 Outer Tubes | G 10 — 1 Pulley |
| A 4 — 4 Outer Tubes | H 2 — 1 Axle |
| B 3 — 2 Inner Tubes | H 3 — 1 Axle |
| B 10 — 1 Joining Tube | H 4 — 1 Axle |
| C 10 — 2 Plates | H 5 — 2 Axles |
| C 20 — 2 Plates | I 3 — 1 Handcrank |
| D 2 — 2 Gussets | N 1 — 1 Platform |
| E 3 — 8 Plain Clips | N 2 — 2 Platform Fittings |
| G 1 — 4 Wheels | |

TOTAL pcs. 42

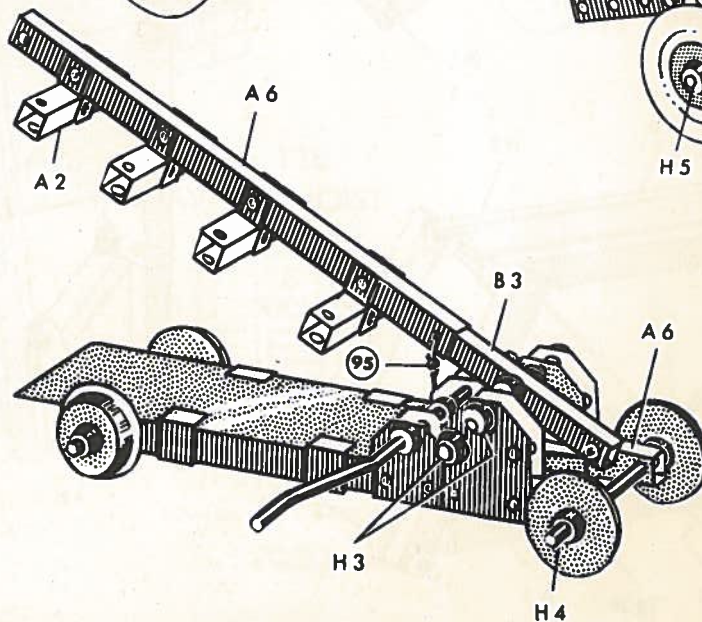
- F 1 — 4 Rivets
F 10 — 25 Rubber Grommets

No. 123 ELEVATING LADDER

- | |
|--------------------------|
| A 1 — 4 Outer Tubes |
| A 6 — 3 Outer Tubes |
| B 3 — 1 Inner Tube |
| C 21 — 1 Plate |
| D 1 — 2 Gussets |
| D 3 — 2 Gussets |
| E 1 — 4 Connecting Clips |
| E 3 — 4 Plain Clips |
| G 1 — 4 Wheels |
| H 3 — 2 Axles |
| H 4 — 2 Axles |
| I 3 — 1 Handcrank |

TOTAL pcs. 30

- F 10 — 13 Rubber Grommets

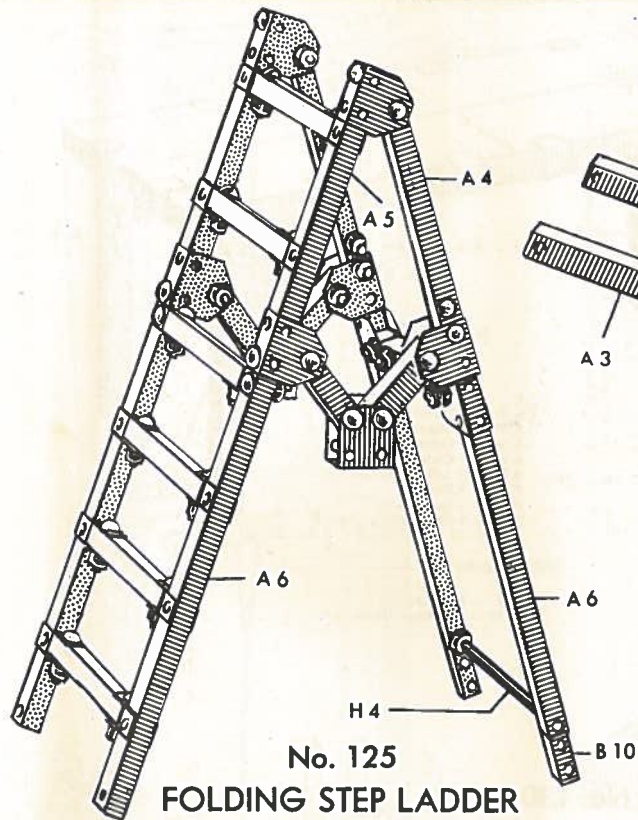


PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS



**No. 125
FOLDING STEP LADDER**

- A 1 — 4 Outer Tubes
- A 2 — 1 Outer Tube
- A 3 — 6 Outer Tubes
- A 4 — 2 Outer Tubes
- A 5 — 2 Outer Tubes
- A 6 — 4 Outer Tubes
- B 10 — 7 Joining Tubes
- D 1 — 6 Gussets
- D 2 — 2 Gussets
- E 1 — 12 Connecting Clips
- H 4 — 1 Axle

TOTAL pcs. 47

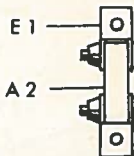
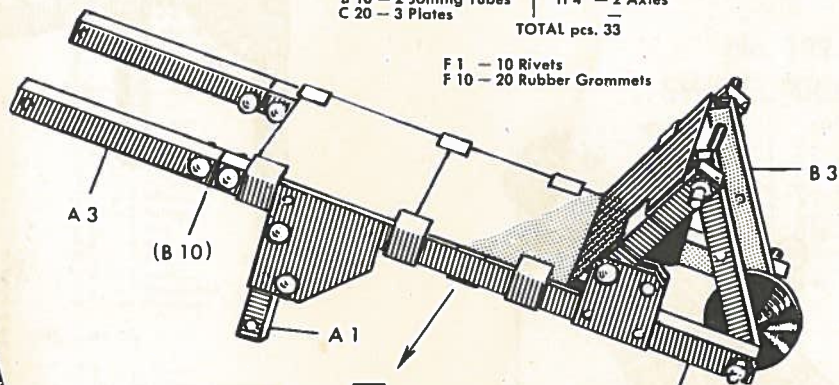
- F 1 — 35 Rivets
- F 10 — 37 Rubber Grommets

No. 126 WHEEL BARROW

- A 1 — 2 Outer Tubes
- A 2 — 3 Outer Tubes
- A 3 — 2 Outer Tubes
- A 6 — 2 Outer Tubes
- B 3 — 2 Inner Tubes
- B 10 — 2 Joining Tubes
- C 20 — 3 Plates
- D 2 — 2 Gussets
- D 4 — 2 Gussets
- E 1 — 2 Connecting Clips
- E 3 — 8 Plain Clips
- G 10 — 1 Pulley
- H 4 — 2 Axles

TOTAL pcs. 33

- F 1 — 10 Rivets
- F 10 — 20 Rubber Grommets



A 2

E 1

(68)

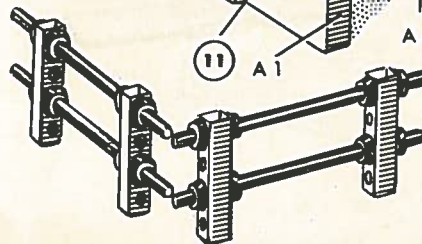
A 5

A 2

(11)

A 1

A 4

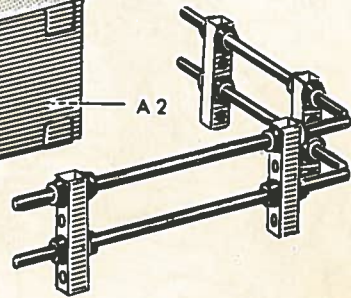
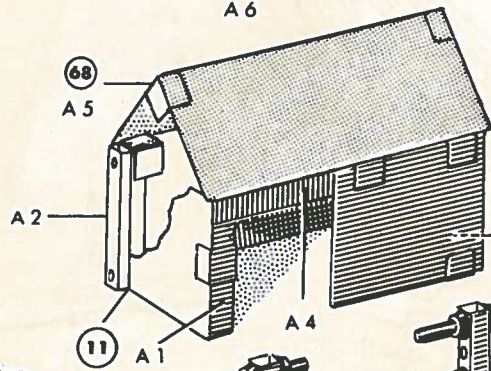


**No. 127
BARN AND CORRAL**

- A 1 — 1 Outer Tube
- A 2 — 3 Outer Tubes
- A 4 — 1 Outer Tube
- A 5 — 1 Outer Tube
- B 10 — 8 Joining Tubes
- C 20 — 3 Plates
- C 21 — 3 Plates
- E 3 — 11 Plain Clips
- H 2 — 1 Axle
- H 4 — 2 Axles
- H 5 — 4 Axles
- H 6 — 2 Axles

TOTAL pcs. 40

- F 10 — 40 Rubber Grommets



PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

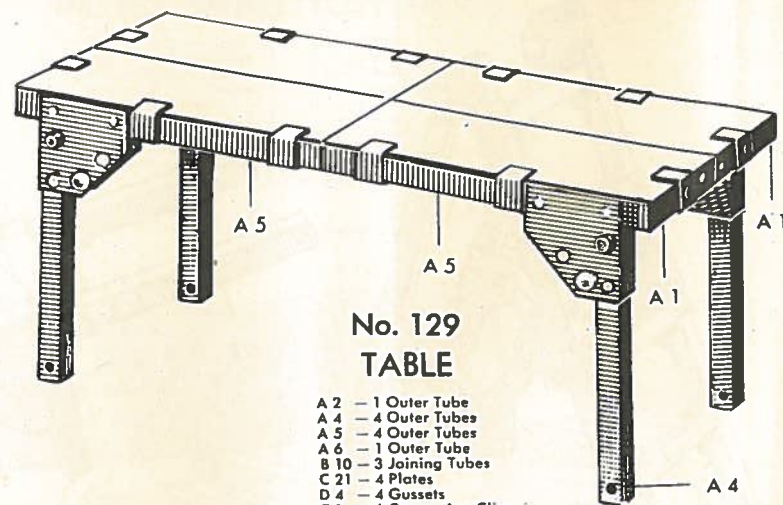
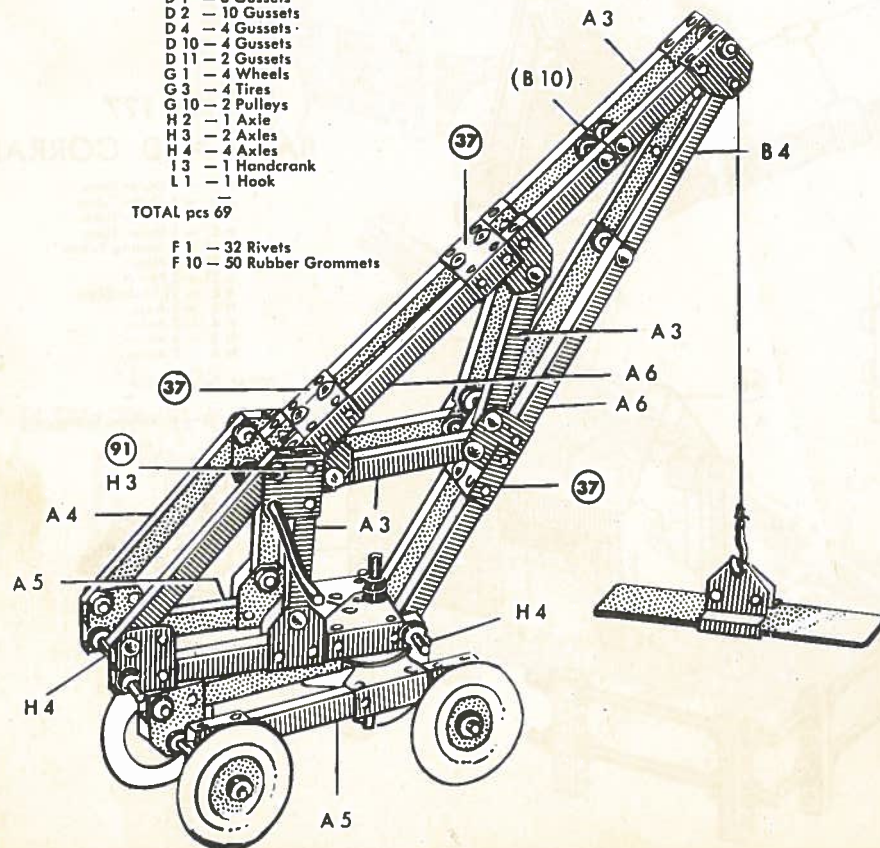
No. 128

TRAVELING CRANE

- A 3 - 8 Outer Tubes
- A 4 - 2 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 4 - 2 Inner Tubes
- B 10 - 2 Joining Tubes
- D 1 - 8 Gussets
- D 2 - 10 Gussets
- D 4 - 4 Gussets
- D 10 - 4 Gussets
- D 11 - 2 Gussets
- G 1 - 4 Wheels
- G 3 - 4 Tires
- G 10 - 2 Pulleys
- H 2 - 1 Axle
- H 3 - 2 Axles
- H 4 - 4 Axles
- I 3 - 1 Handcrank
- L 1 - 1 Hook

TOTAL pcs 69

- F 1 - 32 Rivets
- F 10 - 50 Rubber Grommets



No. 129 TABLE

- A 2 - 1 Outer Tube
- A 4 - 4 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 1 Outer Tube
- B 10 - 3 Joining Tubes
- C 21 - 4 Plates
- D 4 - 4 Gussets
- E 1 - 6 Connecting Clips
- E 3 - 12 Plain Clips

TOTAL pcs. 39

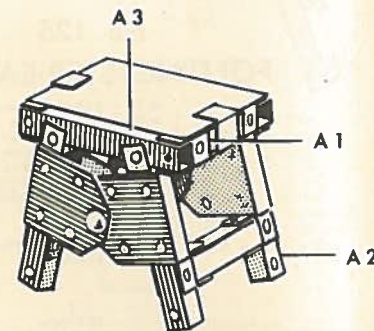
- F 1 - 8 Rivets
- F 10 - 8 Rubber Grommets

No. 130 STOOL

- A 1 - 4 Outer Tubes
- A 2 - 4 Outer Tubes
- A 3 - 2 Outer Tubes
- C 20 - 1 Plate
- D 3 - 4 Gussets
- E 1 - 12 Connecting Clips
- E 3 - 2 Plain Clips

TOTAL pcs. 29

- F 1 - 2 Rivets
- F 10 - 2 Rubber Grommets



PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

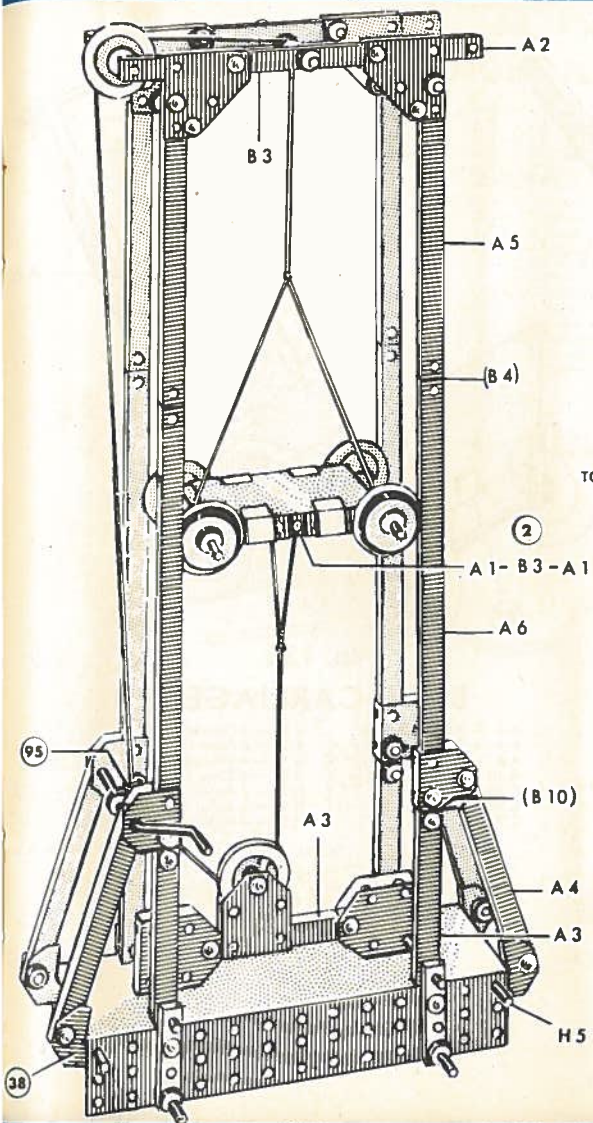
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 131 ELEVATOR

- A 1 — 4 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 5 Outer Tubes
- A 4 — 4 Outer Tubes
- A 5 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 3 — 4 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 8 Joining Tubes
- C 20 — 1 Plate
- D 1 — 4 Gussets
- D 3 — 3 Gussets
- D 4 — 4 Gussets
- D 10 — 4 Gussets
- E 3 — 4 Plain Clips
- G 1 — 4 Wheels
- G 10 — 2 Pulleys
- H 3 — 1 Axle
- H 4 — 4 Axles
- H 5 — 4 Axles
- H 6 — 2 Axles
- I 3 — 1 Handcrank
- N 1 — 1 Platform

TOTAL pcs. 80

- F 1 — 31 Rivets
- F 10 — 50 Rubber Grommets

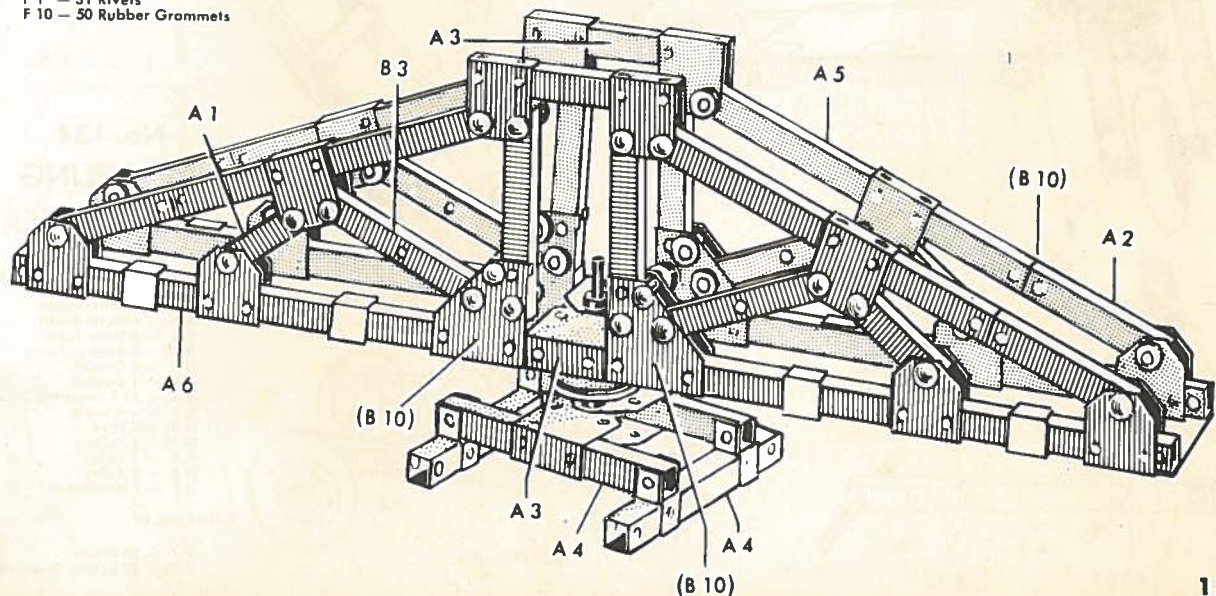


No. 132 SWIVEL BRIDGE

- | | |
|------------------------|--------------------------|
| A 1 — 4 Outer Tubes | C 21 — 2 plates |
| A 2 — 4 Outer Tubes | D 1 — 8 Gussets |
| A 3 — 8 Outer Tubes | D 2 — 8 Gussets |
| A 4 — 4 Outer Tubes | D 3 — 4 Gussets |
| A 5 — 4 Outer Tubes | D 4 — 4 Gussets |
| A 6 — 4 Outer Tubes | E 1 — 4 Connecting Clips |
| B 3 — 4 Inner Tubes | E 3 — 12 Plain Clips |
| B 10 — 8 Joining Tubes | G 10 — 2 Pulleys |
| C 20 — 2 Plates | H 3 — 1 Axle |

TOTAL pcs. 87

- F 1 — 40 Rivets
- F 10 — 42 Rubber Grommets



PLEASE NOTE —

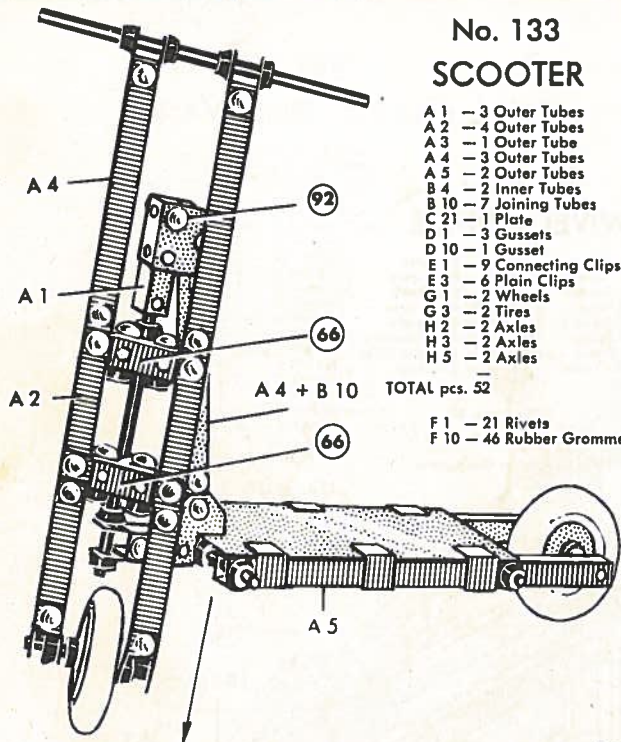
Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

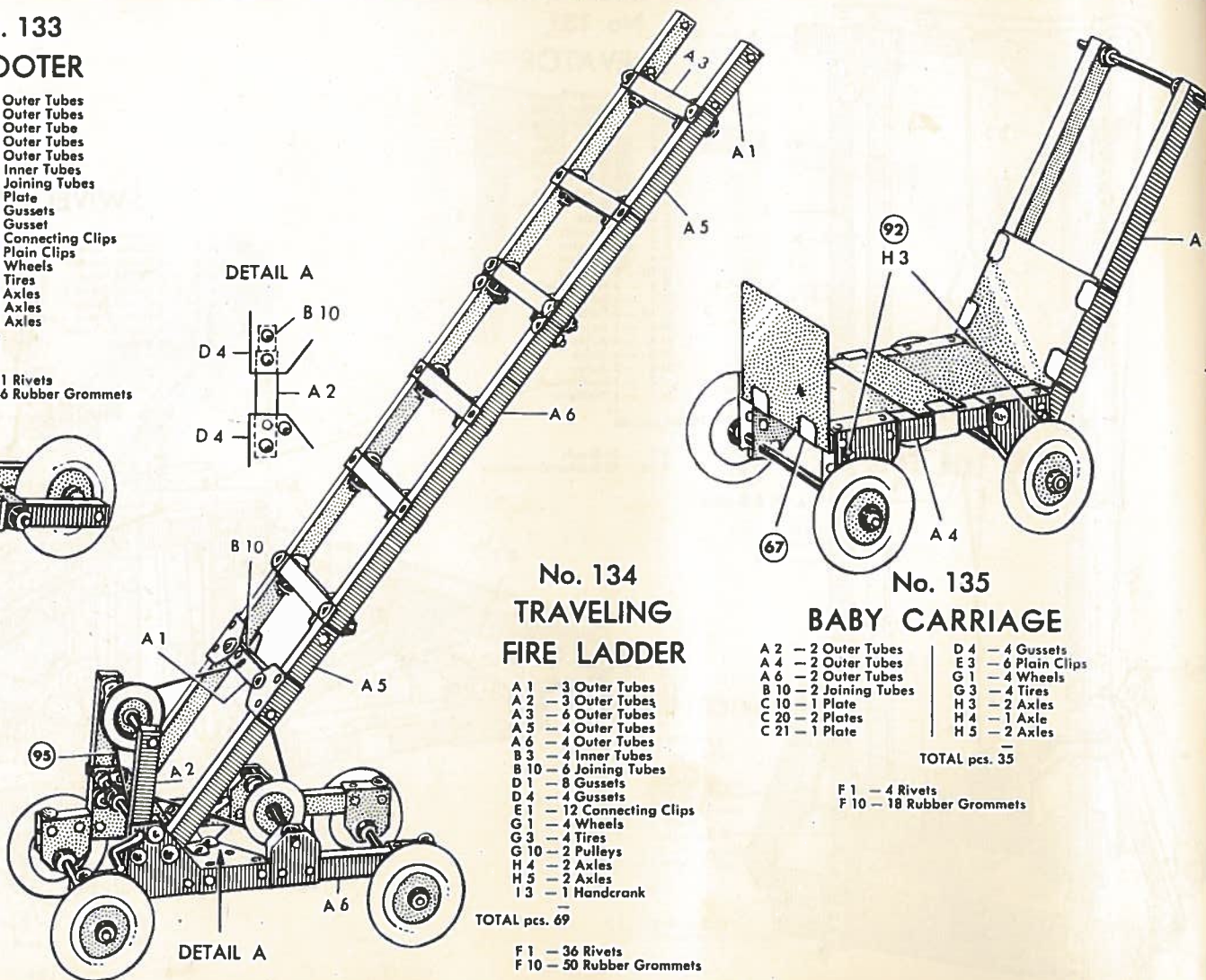
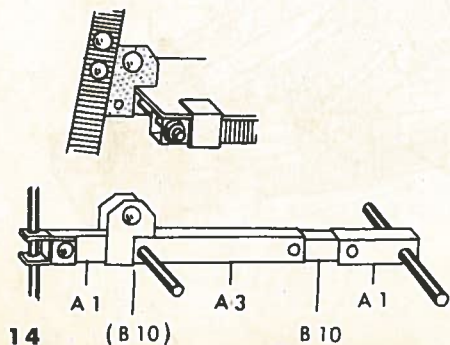
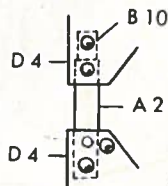
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 133 SCOOTER



- A 1 - 3 Outer Tubes
 - A 2 - 4 Outer Tubes
 - A 3 - 1 Outer Tube
 - A 4 - 3 Outer Tubes
 - A 5 - 2 Outer Tubes
 - B 4 - 2 Inner Tubes
 - B 10 - 7 Joining Tubes
 - C 21 - 1 Plate
 - D 1 - 3 Gussets
 - D 10 - 1 Gusset
 - E 1 - 9 Connecting Clips
 - E 3 - 6 Plain Clips
 - G 1 - 2 Wheels
 - G 3 - 2 Tires
 - H 2 - 2 Axles
 - H 3 - 2 Axles
 - H 5 - 2 Axles
- TOTAL pcs. 52
- F 1 - 21 Rivets
 - F 10 - 46 Rubber Grommets

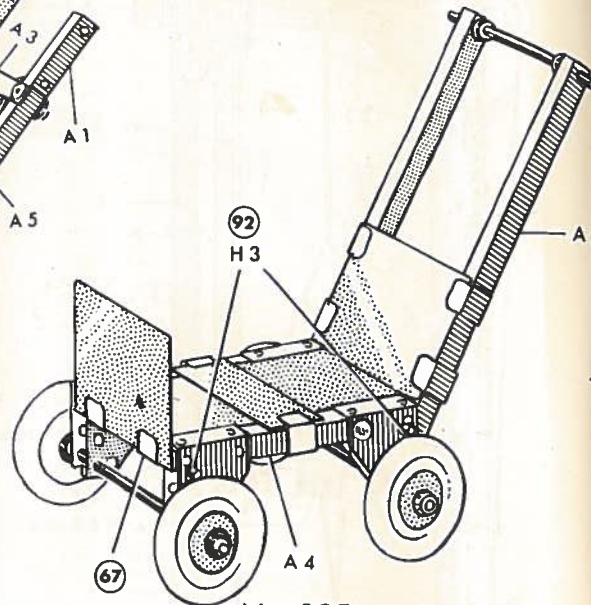
DETAIL A



No. 134 TRAVELING FIRE LADDER

- A 1 - 3 Outer Tubes
 - A 2 - 3 Outer Tubes
 - A 3 - 6 Outer Tubes
 - A 4 - 4 Outer Tubes
 - A 5 - 4 Outer Tubes
 - A 6 - 4 Outer Tubes
 - B 3 - 4 Inner Tubes
 - B 10 - 6 Joining Tubes
 - D 1 - 8 Gussets
 - D 4 - 4 Gussets
 - E 1 - 12 Connecting Clips
 - G 1 - 4 Wheels
 - G 3 - 4 Tires
 - G 10 - 2 Pulleys
 - H 4 - 2 Axles
 - H 5 - 2 Axles
 - I 3 - 1 Handcrank
- TOTAL pcs. 69
- F 1 - 36 Rivets
 - F 10 - 50 Rubber Grommets

DETAIL A



No. 135 BABY CARRIAGE

- A 2 - 2 Outer Tubes
 - A 4 - 2 Outer Tubes
 - A 6 - 2 Outer Tubes
 - B 10 - 2 Joining Tubes
 - C 10 - 1 Plate
 - C 20 - 2 Plates
 - C 21 - 1 Plate
- D 4 - 4 Gussets
 - E 3 - 6 Plain Clips
 - G 1 - 4 Wheels
 - G 3 - 4 Tires
 - H 3 - 2 Axles
 - H 4 - 1 Axle
 - H 5 - 2 Axles
- TOTAL pcs. 35
- F 1 - 4 Rivets
 - F 10 - 18 Rubber Grommets

PLEASE NOTE —

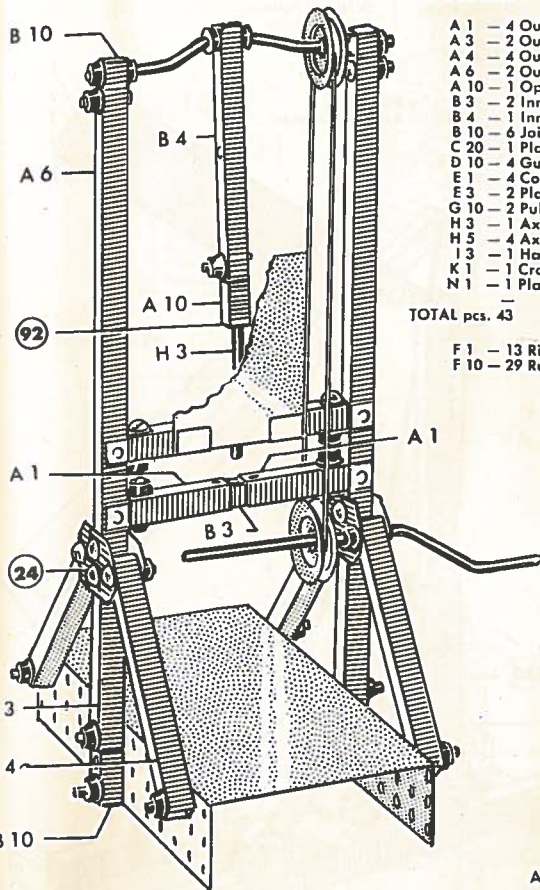
Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 136 HOLE PUNCH

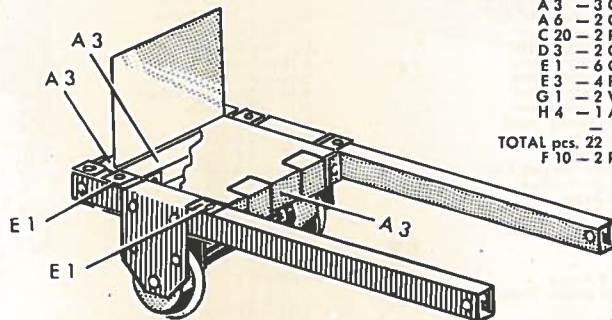


- A 1 - 4 Outer Tubes
- A 3 - 2 Outer Tubes
- A 4 - 4 Outer Tubes
- A 6 - 2 Outer Tubes
- A 10 - 1 Open End Tube
- B 3 - 2 Inner Tubes
- B 4 - 1 Inner Tube
- B 10 - 6 Joining Tubes
- C 20 - 1 Plate
- D 10 - 4 Gussets
- E 1 - 4 Connecting Clips
- E 3 - 2 Plain Clips
- G 10 - 2 Pulleys
- H 3 - 1 Axle
- H 5 - 4 Axles
- I 3 - 1 Handcrank
- K 1 - 1 Crankshaft
- N 1 - 1 Platform

TOTAL pcs. 43

- F 1 - 13 Rivets
- F 10 - 29 Rubber Grommets

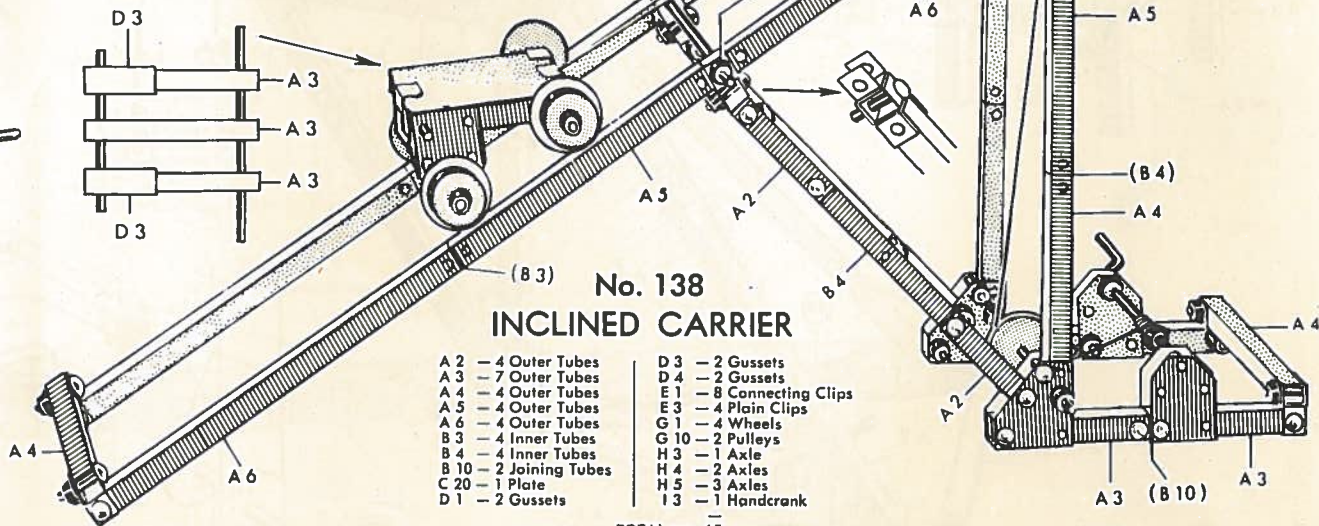
No. 137 BAGGAGE CART



- A 3 - 3 Outer Tubes
- A 6 - 2 Outer Tubes
- C 20 - 2 Plates
- D 3 - 2 Gussets
- E 1 - 6 Connecting Clips
- E 3 - 4 Plain Clips
- G 1 - 2 Wheels
- H 4 - 1 Axle

TOTAL pcs. 22

- F 10 - 2 Rubber Grommets



No. 138 INCLINED CARRIER

- A 2 - 4 Outer Tubes
- A 3 - 7 Outer Tubes
- A 4 - 4 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 4 Inner Tubes
- B 4 - 4 Inner Tubes
- B 10 - 2 Joining Tubes
- C 20 - 1 Plate
- D 1 - 2 Gussets
- D 3 - 2 Gussets
- D 4 - 2 Gussets
- E 1 - 8 Connecting Clips
- E 3 - 4 Plain Clips
- G 1 - 4 Wheels
- G 10 - 2 Pulleys
- H 3 - 1 Axle
- H 4 - 2 Axles
- H 5 - 3 Axles
- I 3 - 1 Handcrank

TOTAL pcs. 65

- F 1 - 28 Rivets
- F 10 - 48 Rubber Grommets

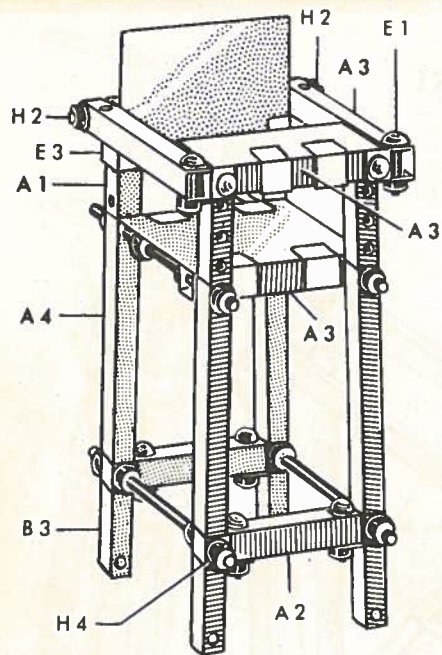
PLEASE NOTE

— Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS



No. 139
HIGH CHAIR

- A 1 - 2 Outer Tubes
- A 2 - 2 Outer Tubes
- A 3 - 5 Outer Tubes
- A 4 - 4 Outer Tubes
- B 3 - 4 Inner Tubes
- B 10 - 6 Joining Tubes
- C 10 - 1 Plate
- C 20 - 2 Plates
- E 1 - 6 Connecting Clips
- E 3 - 8 Plain Clips
- H 2 - 2 Axles
- H 4 - 4 Axles

TOTAL pcs. 46

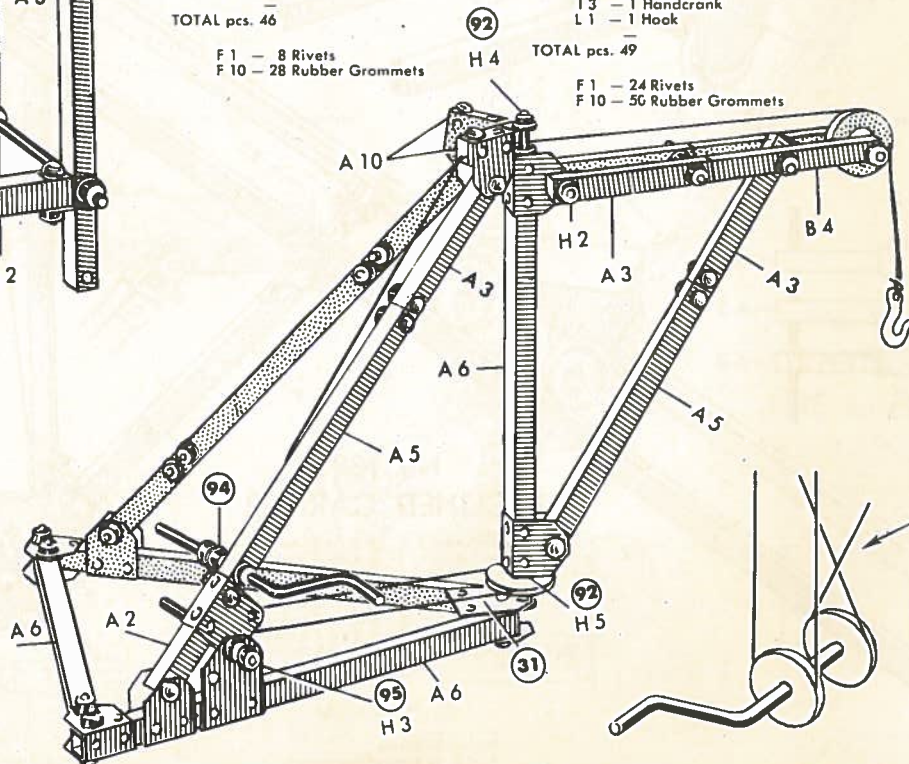
- F 1 - 8 Rivets
- F 10 - 28 Rubber Grommets

No. 140
BUILDER DERRICK

- A 1 - 2 Outer Tubes
- A 2 - 2 Outer Tubes
- A 3 - 5 Outer Tubes
- A 5 - 3 Outer Tubes
- A 6 - 4 Outer Tubes
- A 10 - 2 Open End Tubes
- B 4 - 4 Inner Tubes
- B 10 - 5 Joining Tubes
- D 1 - 8 Gussets
- D 2 - 1 Gusset
- D 3 - 2 Gussets
- G 10 - 2 Pulleys
- H 2 - 4 Axles
- H 3 - 1 Axle
- H 4 - 1 Axle
- H 5 - 1 Axle
- I 3 - 1 Handcrank
- L 1 - 1 Hook

TOTAL pcs. 49

- F 1 - 24 Rivets
- F 10 - 50 Rubber Grommets

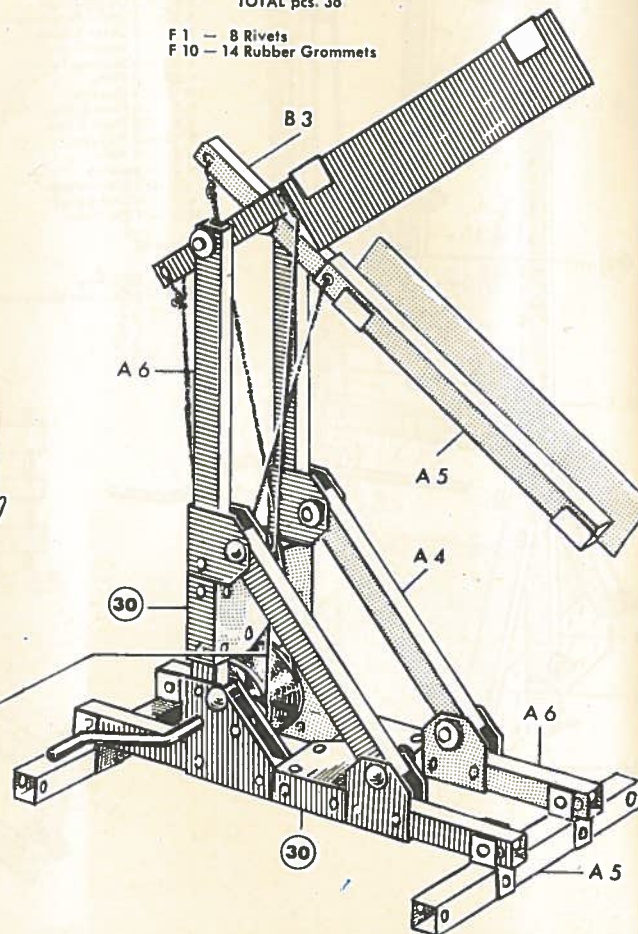


No. 141 RAILROAD SIGNAL

- A 4 - 2 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 2 Inner Tubes
- C 11 - 2 Plates
- D 1 - 4 Gussets
- D 3 - 4 Gussets
- D 4 - 2 Gussets
- E 1 - 4 Connecting Clips
- E 3 - 4 Plain Clips
- G 10 - 2 Pulleys
- H 3 - 1 Axle
- I 3 - 1 Handcrank

TOTAL pcs. 36

- F 1 - 8 Rivets
- F 10 - 14 Rubber Grommets



PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

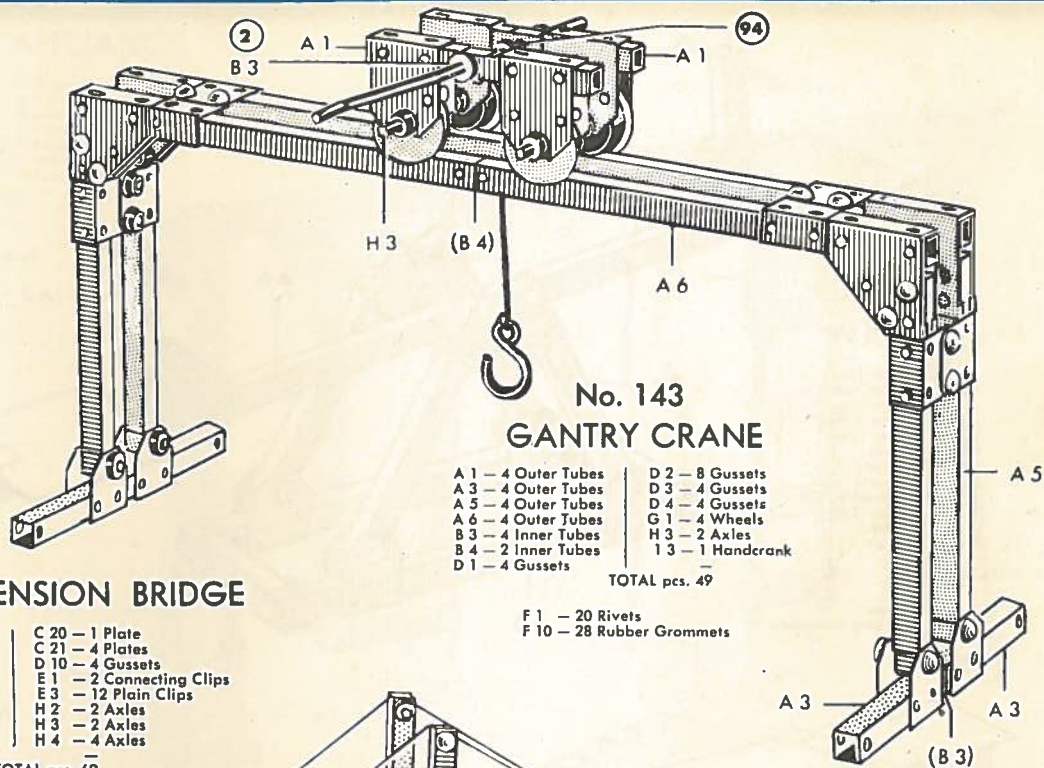
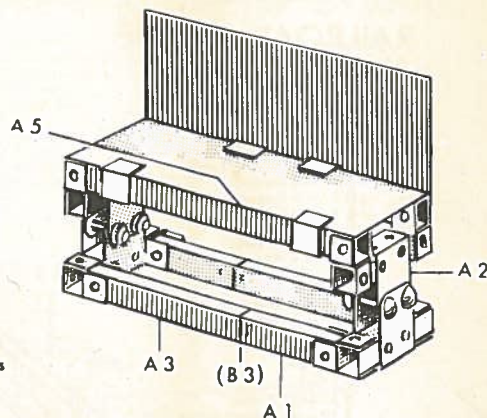
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 142 PARK BENCH

- A 1 — 2 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 2 Outer Tubes
- A 5 — 2 Outer Tubes
- B 3 — 2 Inner Tubes
- C 21 — 2 Plates
- D 2 — 4 Gussets
- E 1 — 8 Connecting Clips
- E 3 — 6 Plain Clips

TOTAL pcs. 32

- F 1 — 4 Rivets
- F 10 — 4 Rubber Grommets



No. 143 GANTRY CRANE

- A 1 — 4 Outer Tubes
- A 3 — 4 Outer Tubes
- A 5 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 3 — 4 Inner Tubes
- B 4 — 2 Inner Tubes
- D 1 — 4 Gussets
- D 2 — 8 Gussets
- D 3 — 4 Gussets
- D 4 — 4 Gussets
- G 1 — 4 Wheels
- H 3 — 2 Axles
- I 3 — 1 Handcrank

TOTAL pcs. 49

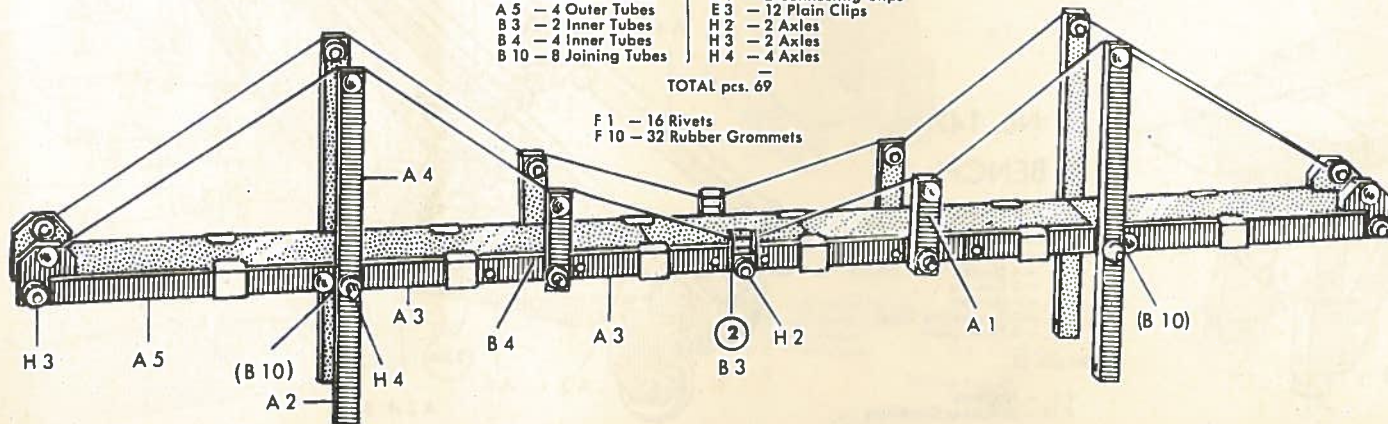
- F 1 — 20 Rivets
- F 10 — 28 Rubber Grommets

No. 144 SUSPENSION BRIDGE

- A 1 — 4 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 8 Outer Tubes
- A 4 — 4 Outer Tubes
- A 5 — 4 Outer Tubes
- B 3 — 2 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 8 Joining Tubes
- C 20 — 1 Plate
- C 21 — 4 Plates
- D 10 — 4 Gussets
- E 1 — 2 Connecting Clips
- E 3 — 12 Plain Clips
- H 2 — 2 Axles
- H 3 — 2 Axles
- H 4 — 4 Axles

TOTAL pcs. 69

- F 1 — 16 Rivets
- F 10 — 32 Rubber Grommets



PLEASE NOTE —

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Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

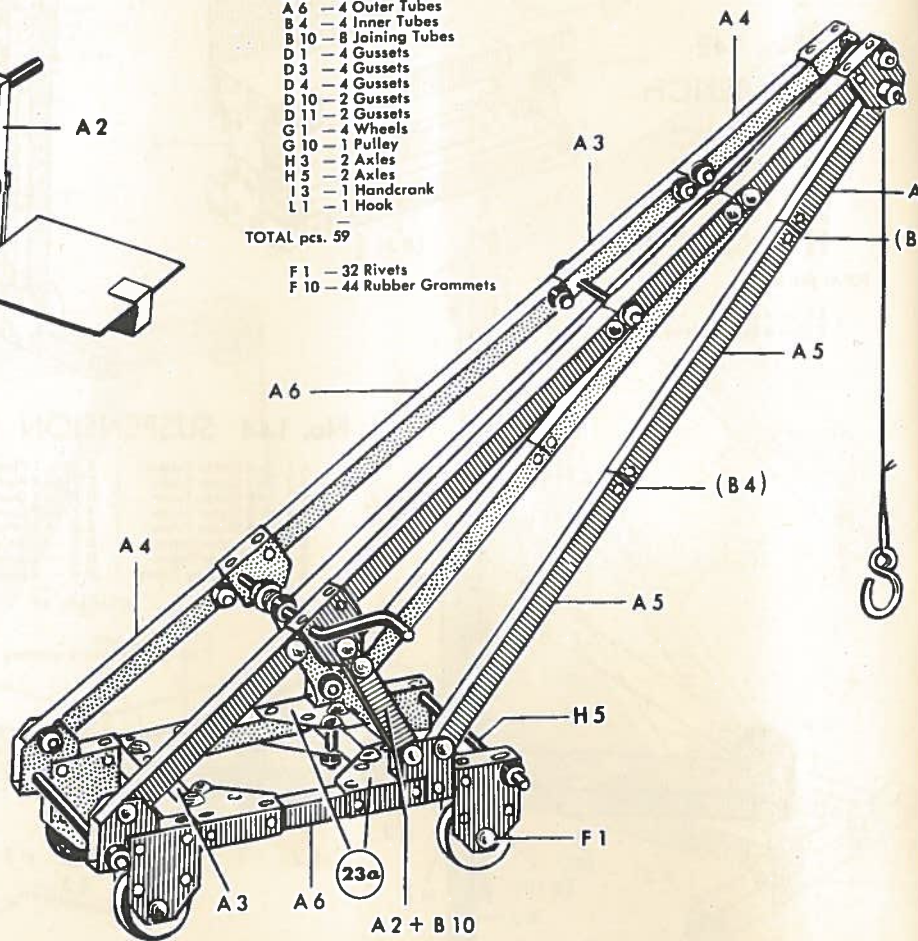
No. 146

RAILROAD CRANE

- A 2 — 2 Outer Tubes
- A 3 — 6 Outer Tubes
- A 4 — 4 Outer Tubes
- A 5 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 4 — 4 Inner Tubes
- B 10 — 8 Joining Tubes
- D 1 — 4 Gussets
- D 3 — 4 Gussets
- D 4 — 4 Gussets
- D 10 — 2 Gussets
- D 11 — 2 Gussets
- G 1 — 4 Wheels
- G 10 — 1 Pulley
- H 3 — 2 Axles
- H 5 — 2 Axles
- I 3 — 1 Handcrank
- L 1 — 1 Hook

TOTAL pcs. 59

- F 1 — 32 Rivets
- F 10 — 44 Rubber Grommets

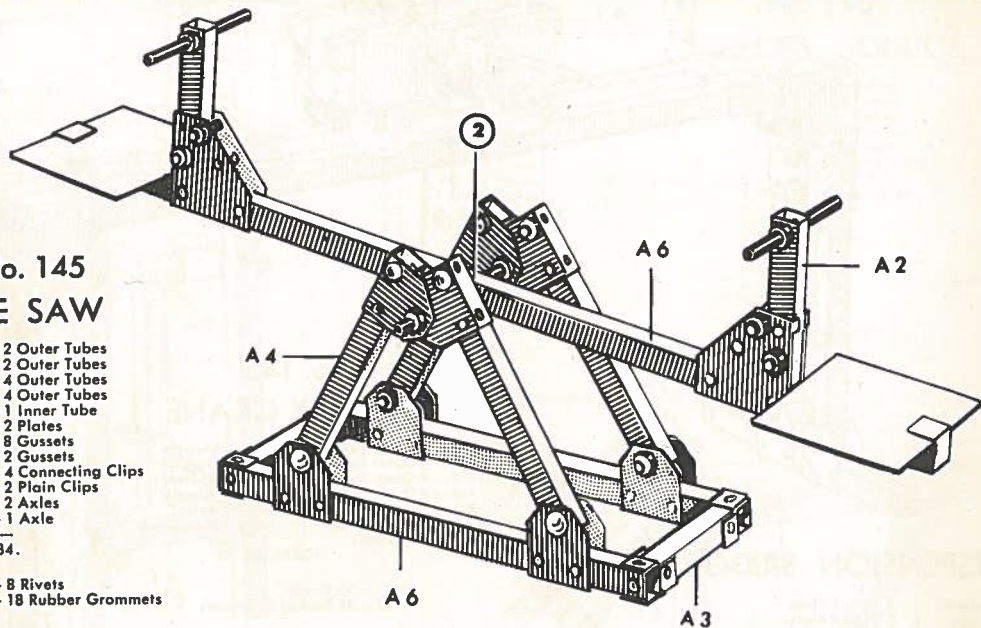


No. 145 SEE SAW

- A 2 — 2 Outer Tubes
- A 3 — 2 Outer Tubes
- A 4 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 3 — 1 Inner Tube
- C 20 — 2 Plates
- D 1 — 8 Gussets
- D 4 — 2 Gussets
- E 1 — 4 Connecting Clips
- E 3 — 2 Plain Clips
- H 3 — 2 Axles
- H 4 — 1 Axle

TOTAL pcs. 34.

- F 1 — 8 Rivets
- F 10 — 18 Rubber Grommets

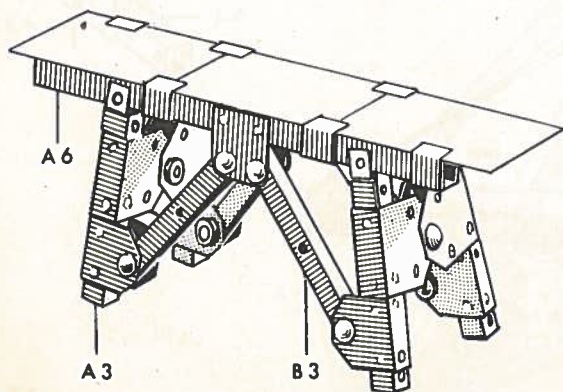


No. 147 BENCH

- A 3 — 4 Outer Tubes
- A 6 — 2 Outer Tubes
- B 3 — 4 Inner Tubes
- C 20 — 3 Plates
- D 1 — 4 Gussets
- D 2 — 2 Gussets
- D 3 — 4 Gussets
- E 1 — 4 Connecting Clips
- E 3 — 6 Plain Clips

TOTAL pcs. 33

- F 1 — 10 Rivets
- F 10 — 10 Rubber Grommets



PLEASE NOTE —

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Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

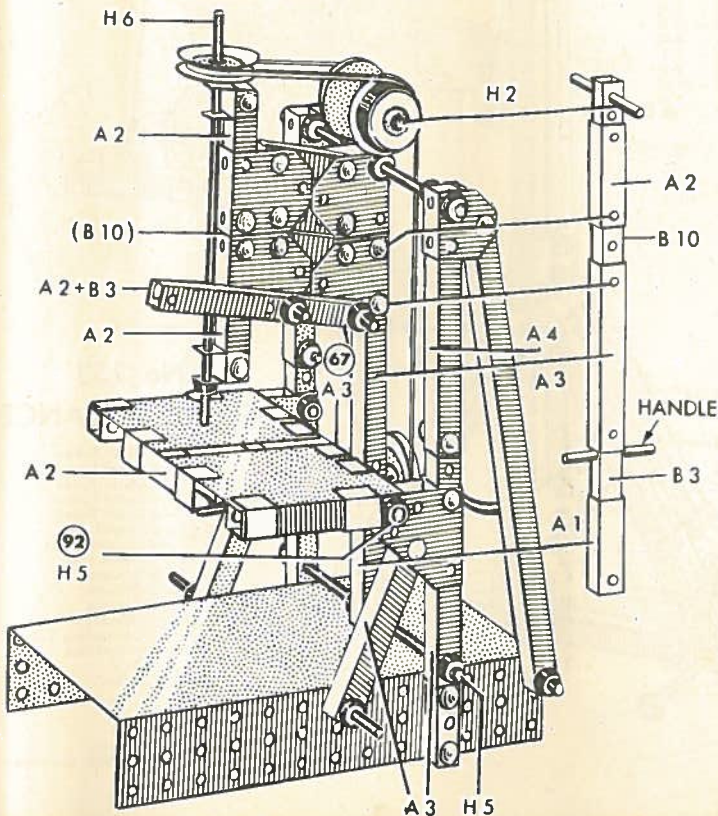
No. 148 DRILL PRESS

No. 149 GYMNASTIC APPLIANCE

- | | |
|------|----------------------|
| A 1 | - 4 Outer Tubes |
| A 2 | - 4 Outer Tubes |
| A 3 | - 8 Outer Tubes |
| A 4 | - 2 Outer Tubes |
| A 6 | - 2 Outer Tubes |
| B 3 | - 2 Inner Tubes |
| B 10 | - 8 Joining Tubes |
| C 20 | - 2 Plates |
| D 1 | - 2 Gussets |
| D 3 | - 4 Gussets |
| D 4 | - 2 Gussets |
| E 1 | - 2 Connecting Clips |
| E 3 | - 10 Plain Clips |
| G 1 | - 2 Wheels |
| G 10 | - 2 Pulleys |
| H 2 | - 3 Axles |
| H 5 | - 4 Axles |
| H 6 | - 2 Axles |
| I 3 | - 1 Handcrank |
| N 1 | - 1 Platform |

TOTAL pcs. 67

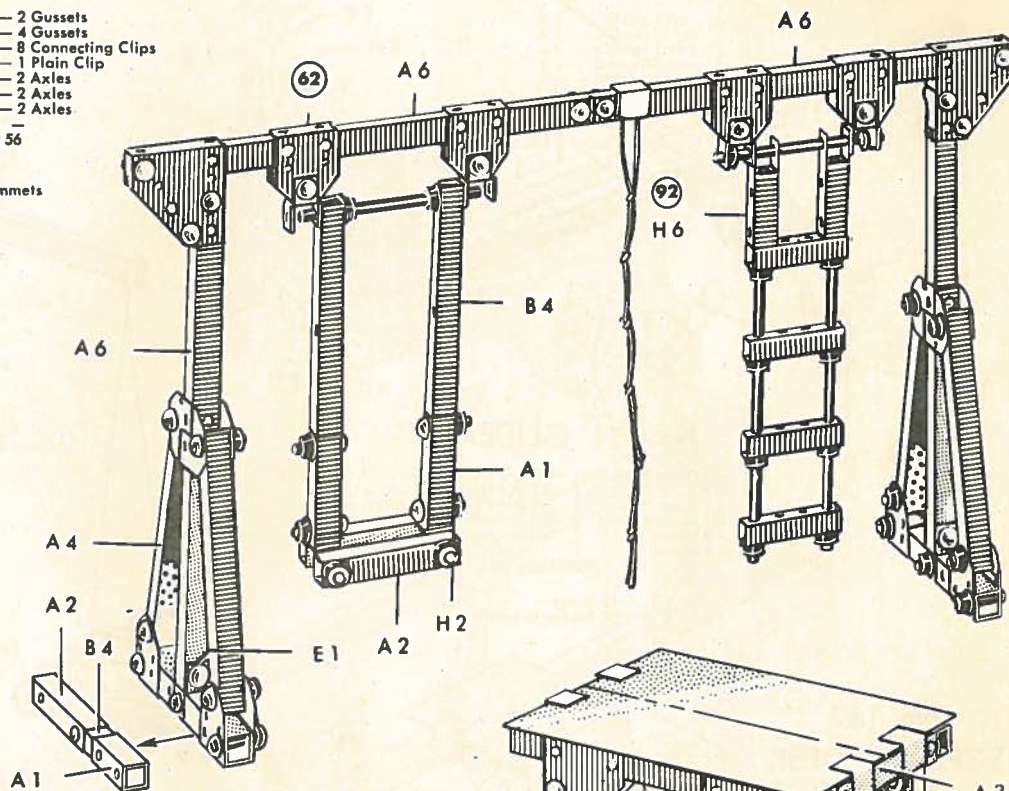
- F 1 - 24 Rivets
F 10 - 50 Rubber Grommets



- | | |
|------|----------------------|
| A 1 | - 4 Outer Tubes |
| A 2 | - 4 Outer Tubes |
| A 4 | - 4 Outer Tubes |
| A 6 | - 4 Outer Tubes |
| A 10 | - 2 Open End Tubes |
| B 4 | - 4 Inner Tubes |
| B 10 | - 5 Joining Tubes |
| D 1 | - 8 Gussets |
| D 4 | - 2 Gussets |
| D 10 | - 4 Gussets |
| E 1 | - 8 Connecting Clips |
| E 3 | - 1 Plain Clip |
| H 2 | - 2 Axles |
| H 3 | - 2 Axles |
| H 6 | - 2 Axles |

TOTAL pcs. 56

- F 1 - 32 Rivets
F 10 - 50 Rubber Grommets

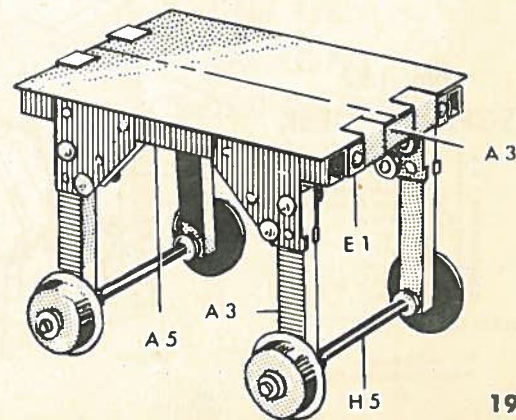


No. 150 TEA TABLE

- | | |
|------|----------------------|
| A 3 | - 6 Outer Tubes |
| A 5 | - 2 Outer Tubes |
| C 21 | - 2 Plates |
| D 4 | - 4 Gussets |
| E 1 | - 4 Connecting Clips |
| E 3 | - 4 Plain Clips |
| G 1 | - 4 Wheels |
| H 5 | - 2 Axles |

TOTAL pcs. 28

- F 1 - 8 Rivets
F 10 - 16 Rubber Grommets

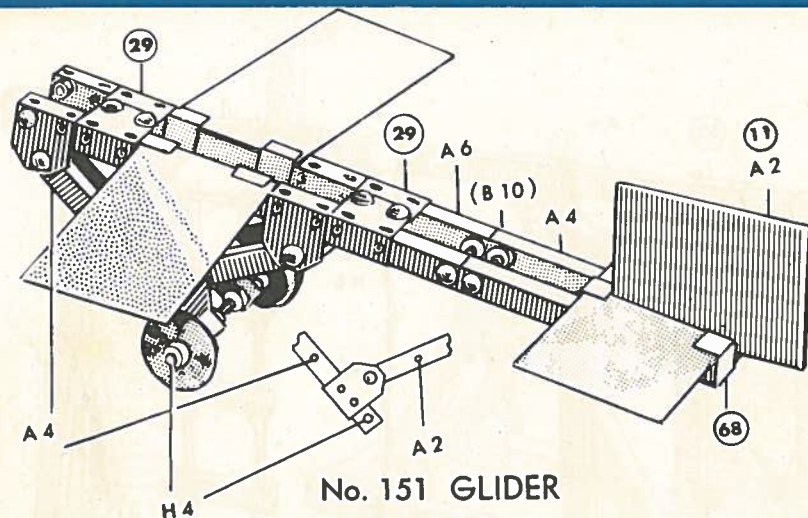


PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS



No. 151 GLIDER

- | | |
|------------------------|--------------------------|
| A 2 — 3 Outer Tubes | D 1 — 6 Gussets |
| A 4 — 4 Outer Tubes | D 2 — 4 Gussets |
| A 6 — 2 Outer Tubes | E 1 — 7 Connecting Clips |
| B 10 — 2 Joining Tubes | G 1 — 2 Wheels |
| C 20 — 3 Plates | H 4 — 1 Axle |
| C 21 — 2 Plates | |

TOTAL pcs. 36

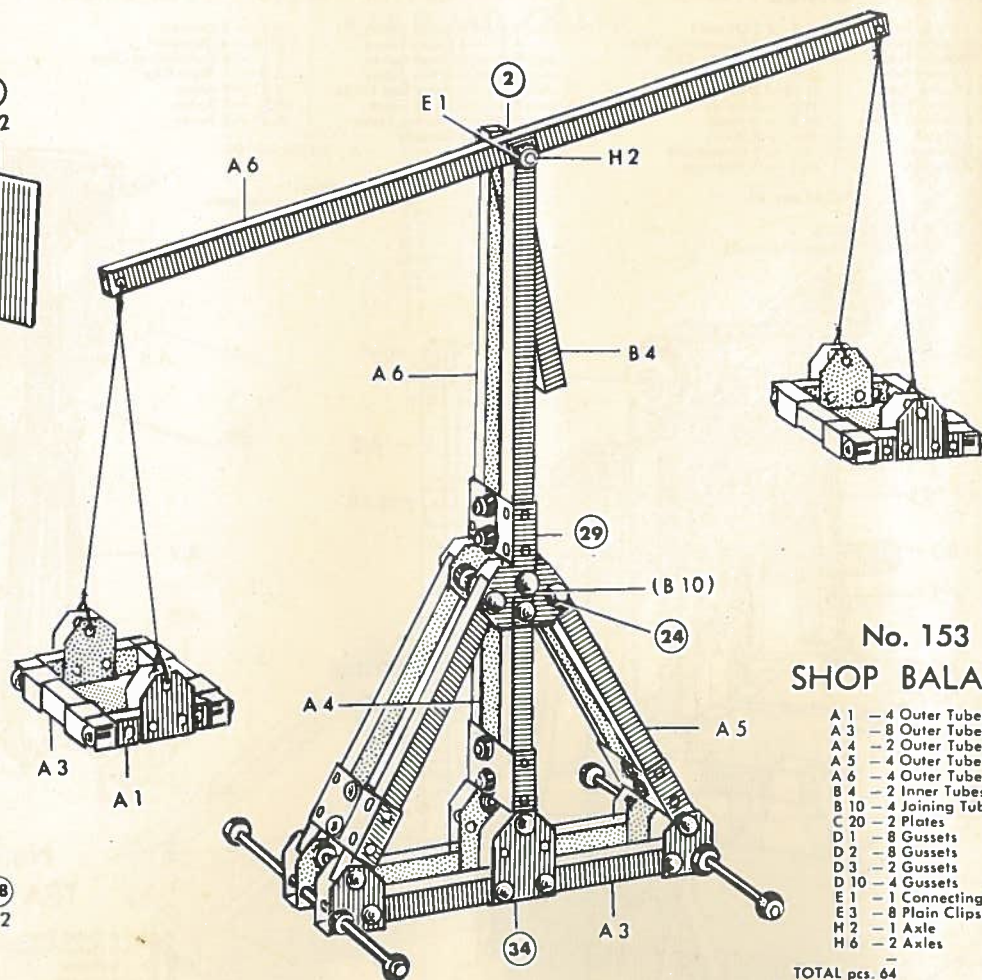
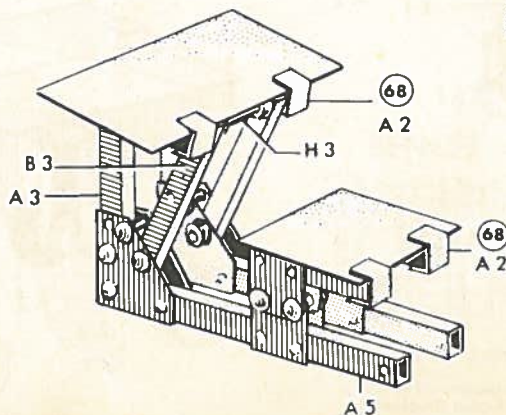
- F 1 — 12 Rivets
F 10 — 20 Rubber Grommets

No. 152 SCHOOL DESK

- | |
|---------------------|
| A 2 — 4 Outer Tubes |
| A 3 — 2 Outer Tubes |
| A 5 — 2 Outer Tubes |
| B 3 — 2 Inner Tubes |
| C 20 — 1 Plate |
| C 21 — 1 Plate |
| D 2 — 4 Gussets |
| D 4 — 2 Gussets |
| E 3 — 6 Plain Clips |
| H 3 — 2 Axles |

TOTAL pcs. 26.

- F 1 — 10 Rivets
F 10 — 14 Rubber Grommets



No. 153 SHOP BALANCE

- | |
|-------------------------|
| A 1 — 4 Outer Tubes |
| A 3 — 8 Outer Tubes |
| A 4 — 2 Outer Tubes |
| A 5 — 4 Outer Tubes |
| A 6 — 4 Outer Tubes |
| B 4 — 2 Inner Tubes |
| B 10 — 4 Joining Tubes |
| C 20 — 2 Plates |
| D 1 — 8 Gussets |
| D 2 — 8 Gussets |
| D 3 — 2 Gussets |
| D 10 — 4 Gussets |
| E 1 — 1 Connecting Clip |
| E 3 — 8 Plain Clips |
| H 2 — 1 Axle |
| H 6 — 2 Axles |

TOTAL pcs. 64

- F 1 — 39 Rivets
F 10 — 49 Rubber Grommet

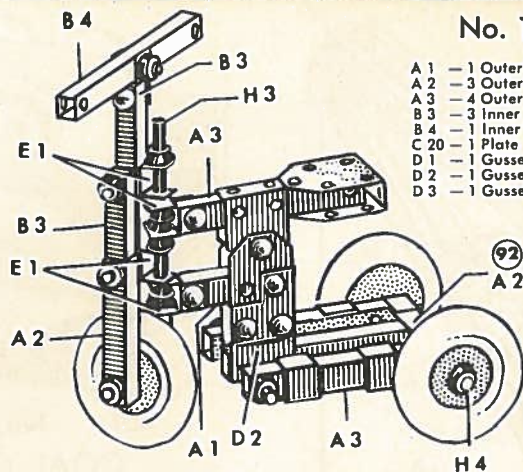
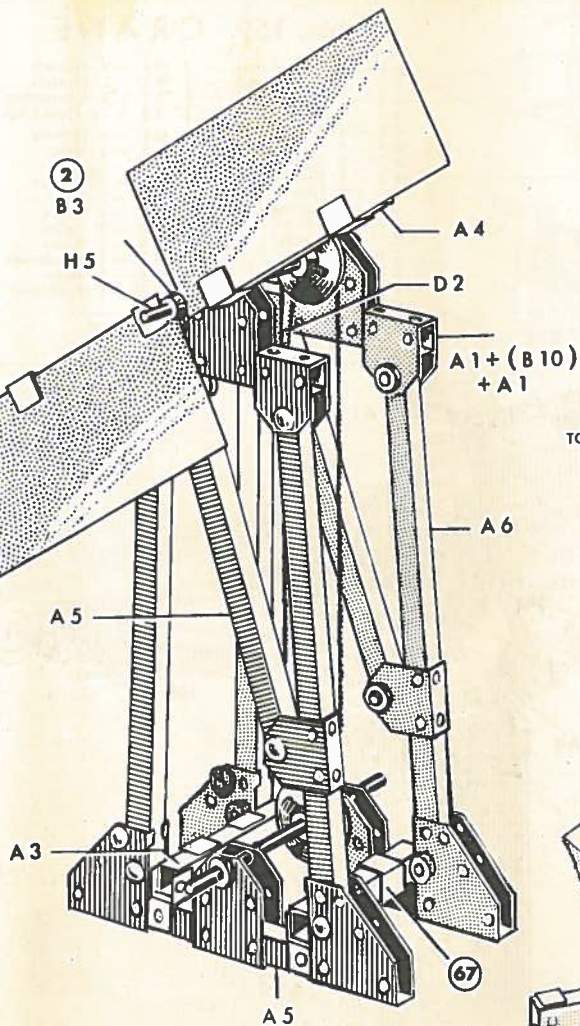
MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 154 WIND MILL

- A 1 — 4 Outer Tubes
- A 3 — 2 Outer Tubes
- A 4 — 2 Outer Tubes
- A 5 — 4 Outer Tubes
- A 6 — 4 Outer Tubes
- B 3 — 1 Inner Tube
- B 10 — 2 Joining Tubes
- C 20 — 1 Plate
- C 21 — 2 Plates
- D 1 — 4 Gussets
- D 2 — 2 Gussets
- D 3 — 4 Gussets
- D 4 — 4 Gussets
- E 1 — 4 Connecting Clips
- E 3 — 8 Plain Clips
- G 10 — 2 Pulleys
- H 5 — 1 Axle
- I 3 — 1 Handcrank

TOTAL pcs. 52

- F 1 — 16 Rivets
- F 10 — 23 Rubber Grommets

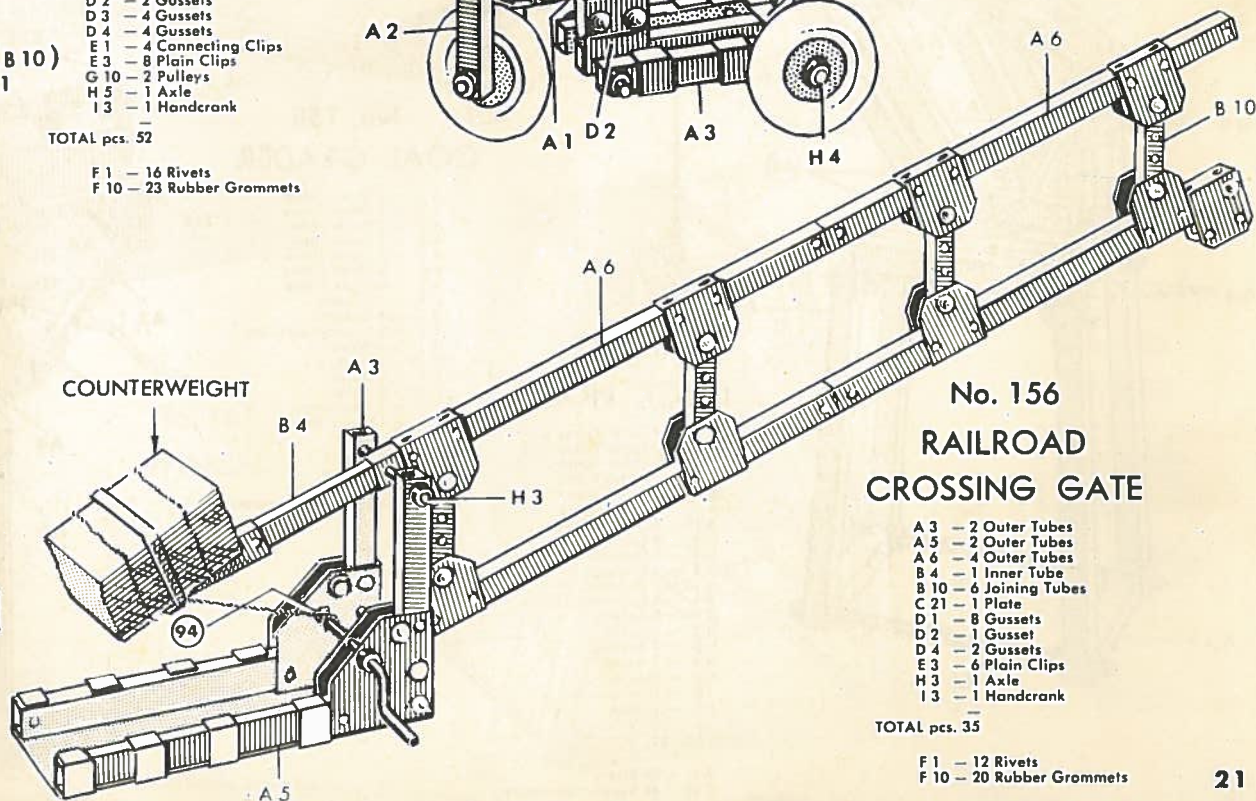


No. 155 TRICYCLE

- A 1 — 1 Outer Tube
- A 2 — 3 Outer Tubes
- A 3 — 4 Outer Tubes
- B 3 — 3 Inner Tubes
- B 4 — 1 Inner Tube
- C 20 — 1 Plate
- D 1 — 1 Gusset
- D 2 — 1 Gusset
- D 3 — 1 Gusset
- D 10 — 1 Gusset
- D 11 — 1 Gusset
- E 1 — 5 Connecting Clips
- E 3 — 6 Plain Clips
- G 1 — 3 Wheels
- G 2 — 3 Tires
- G 3 — 3 Axles
- H 2 — 4 Axles
- H 3 — 2 Axles
- H 4 — 1 Axle

TOTAL pcs. 42

- F 1 — 8 Rivets
- F 10 — 28 Rubber Grommets



No. 156 RAILROAD CROSSING GATE

- A 3 — 2 Outer Tubes
- A 5 — 2 Outer Tubes
- A 6 — 4 Outer Tubes
- B 4 — 1 Inner Tube
- B 10 — 6 Joining Tubes
- C 21 — 1 Plate
- D 1 — 8 Gussets
- D 2 — 1 Gusset
- D 4 — 2 Gussets
- E 3 — 6 Plain Clips
- H 3 — 1 Axle
- I 3 — 1 Handcrank

TOTAL pcs. 35

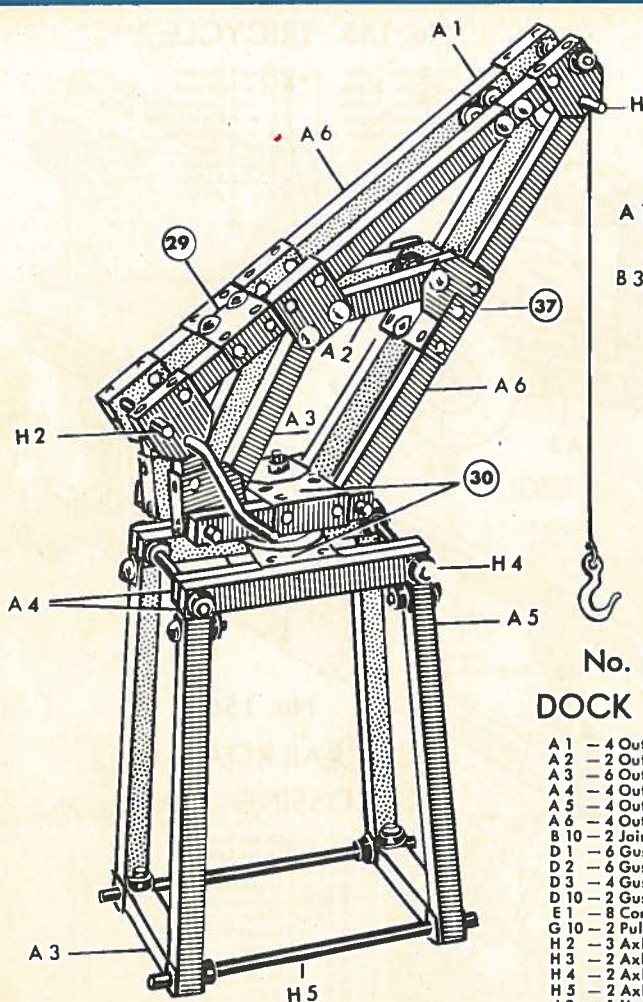
- F 1 — 12 Rivets
- F 10 — 20 Rubber Grommets

PLEASE NOTE — Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

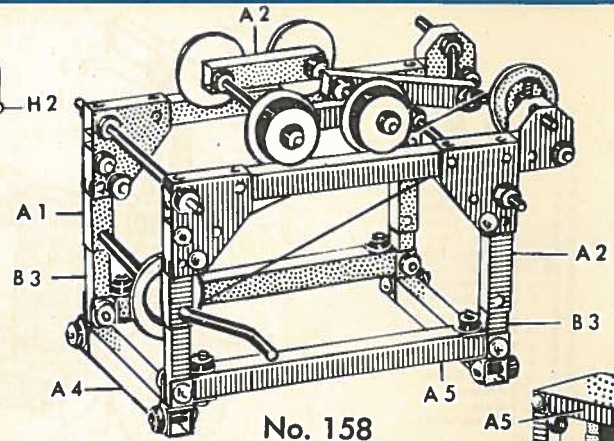


**No. 157
DOCK HOIST**

- A 1 - 4 Outer Tubes
- A 2 - 2 Outer Tubes
- A 3 - 6 Outer Tubes
- A 4 - 4 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 10 - 2 Joining Tubes
- D 1 - 6 Gussets
- D 2 - 6 Gussets
- D 3 - 4 Gussets
- D 10 - 2 Gussets
- E 1 - 8 Connecting Clips
- G 10 - 2 Pulleys
- H 2 - 3 Axles
- H 3 - 2 Axles
- H 4 - 2 Axles
- H 5 - 2 Axles
- I 3 - 1 Handcrank
- L 1 - 1 Hook

TOTAL pcs. 65

- F 1 - 26 Rivets
- F 10 - 46 Rubber Grommets



**No. 158
COAL GRADER**

- A 1 - 2 Outer Tubes
- A 2 - 4 Outer Tubes
- A 3 - 1 Outer Tube
- A 4 - 2 Outer Tubes
- A 5 - 2 Outer Tubes
- A 6 - 2 Outer Tubes
- B 3 - 4 Inner Tubes
- D 1 - 2 Gussets
- D 4 - 4 Gussets
- E 1 - 8 Connecting Clips
- G 1 - 4 Wheels
- G 10 - 2 Pulleys
- H 4 - 2 Axles
- H 5 - 2 Axles
- I 3 - 1 Handcrank
- K 1 - 1 Crank Shaft

TOTAL pcs. 43

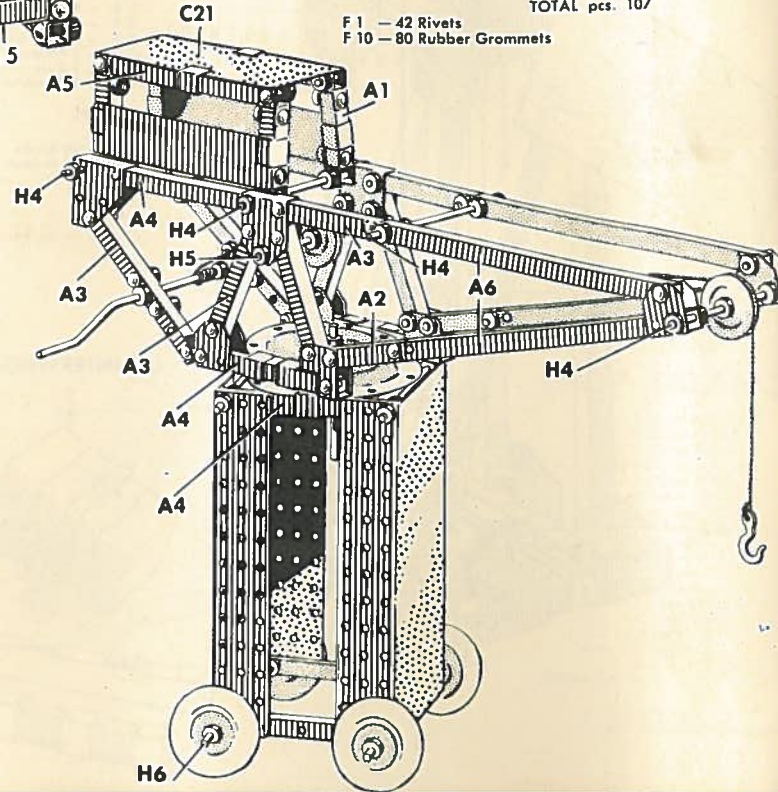
- F 1 - 20 Rivets
- F 10 - 41 Rubber Grommets

No. 159 CRANE

- A 1 - 4 Outer Tubes
- A 2 - 4 Outer Tubes
- A 3 - 6 Outer Tubes
- A 4 - 4 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- A 10 - 2 Open End Tubes
- B 3 - 2 Inner Tubes
- B 4 - 2 Inner Tubes
- B 10 - 8 Joining Tubes
- C 10 - 4 Plates
- C 11 - 2 Plates
- C 20 - 4 Plates
- C 21 - 1 Plate
- D 1 - 4 Gussets
- D 3 - 2 Gussets
- D 4 - 2 Gussets
- D 11 - 2 Gussets
- E 1 - 8 Connecting Clips
- E 3 - 12 Plain Clips
- G 1 - 4 Wheels
- G 2 - 2 Hubs
- G 3 - 4 Tires
- G 10 - 2 Pulleys
- H 3 - 1 Axle
- H 4 - 4 Axles
- H 5 - 3 Axles
- H 6 - 2 Axles
- I 3 - 1 Handcrank
- L 1 - 1 Hook
- N 1 - 2 Platforms

TOTAL pcs. 107

- F 1 - 42 Rivets
- F 10 - 80 Rubber Grommets

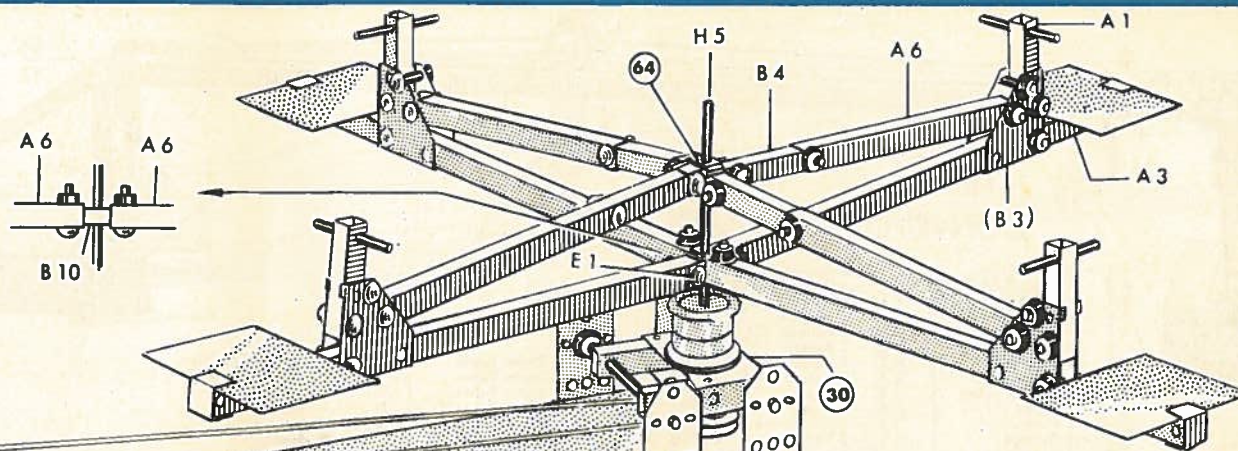


PLEASE NOTE — Number in CIRCLE (○) refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 160

MERRY-GO-ROUND

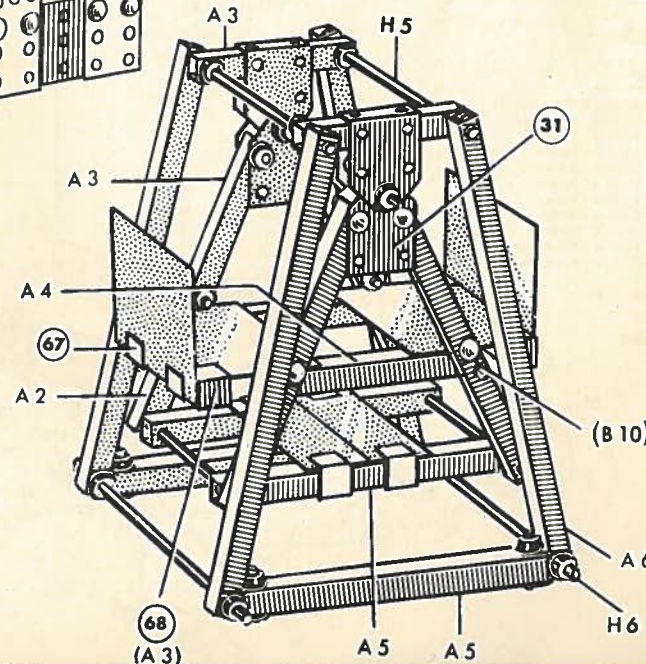


- A1 - 4 Outer Tubes
- A2 - 4 Outer Tubes
- A3 - 4 Outer Tubes
- A5 - 4 Outer Tubes
- A6 - 4 Outer Tubes
- B3 - 4 Inner Tubes
- B4 - 4 Inner Tubes
- B10 - 7 Joining Tubes
- C20 - 4 Plates
- D3 - 4 Gussets
- D4 - 4 Gussets
- E1 - 6 Connecting Clips
- E3 - 4 Plain Clips
- G1 - 2 Wheels
- G10 - 2 Pulleys
- H2 - 4 Axles
- H4 - 4 Axles
- H5 - 4 Axles
- I3 - 1 Handcrank
- N1 - 2 Platforms
- N2 - 4 Plat. Att. Fittings

TOTAL pcs. 80

- F1 - 40 Rivets
- F10 - 50 Rubber Grommets

No. 162 SWING

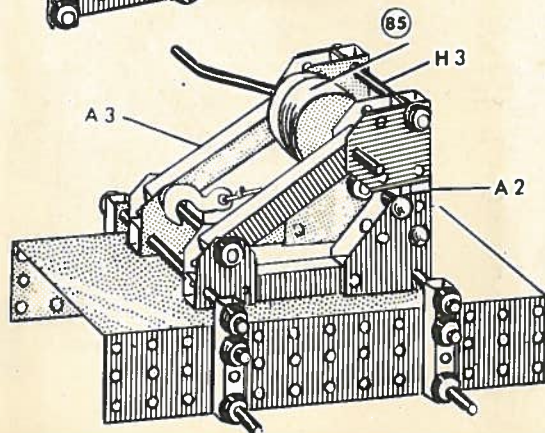


- A2 - 4 Outer Tubes
- A3 - 8 Outer Tubes
- A4 - 2 Outer Tubes
- A5 - 4 Outer Tubes
- A6 - 4 Outer Tubes
- B10 - 4 Joining Tubes
- C10 - 2 Plates
- C20 - 4 Plates
- D3 - 4 Gussets
- E1 - 4 Connecting Clips
- E3 - 12 Plain Clips
- H4 - 4 Axles
- H5 - 3 Axles
- H6 - 2 Axles

TOTAL pcs. 61

- F1 - 12 Rivets
- F10 - 40 Rubber Grommets

No. 161 WINCH



- A2 - 2 Outer Tubes
- A3 - 2 Outer Tubes
- A4 - 2 Outer Tubes
- B10 - 4 Joining Tubes
- D1 - 2 Gussets
- D3 - 2 Gussets
- D4 - 2 Gussets
- G1 - 2 Wheels
- G10 - 1 Pulley
- H3 - 2 Axles
- H5 - 4 Axles
- H6 - 2 Axles
- I3 - 1 Handcrank
- N1 - 1 Platform

TOTAL pcs. 29

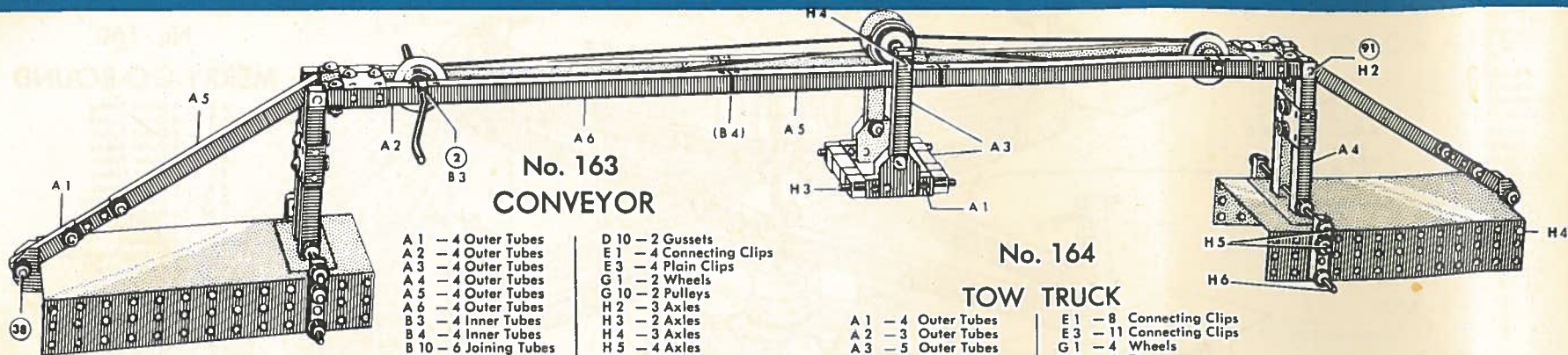
- F1 - 4 Rivets
- F10 - 24 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS



**No. 163
CONVEYOR**

- | | |
|------------------------|--------------------------|
| A 1 — 4 Outer Tubes | D 10 — 2 Gussets |
| A 2 — 4 Outer Tubes | E 1 — 4 Connecting Clips |
| A 3 — 4 Outer Tubes | E 3 — 4 Plain Clips |
| A 4 — 4 Outer Tubes | G 1 — 2 Wheels |
| A 5 — 4 Outer Tubes | G 10 — 2 Pulleys |
| A 6 — 4 Outer Tubes | H 2 — 3 Axles |
| B 3 — 4 Inner Tubes | H 3 — 2 Axles |
| B 4 — 4 Inner Tubes | H 4 — 3 Axles |
| B 10 — 6 Joining Tubes | H 5 — 4 Axles |
| C 10 — 2 Plates | H 6 — 2 Axles |
| C 20 — 1 Plate | I 3 — 1 Handcrank |
| D 1 — 2 Gussets | N 1 — 2 Platforms |
| D 2 — 8 Gussets | |

TOTAL pcs. 82

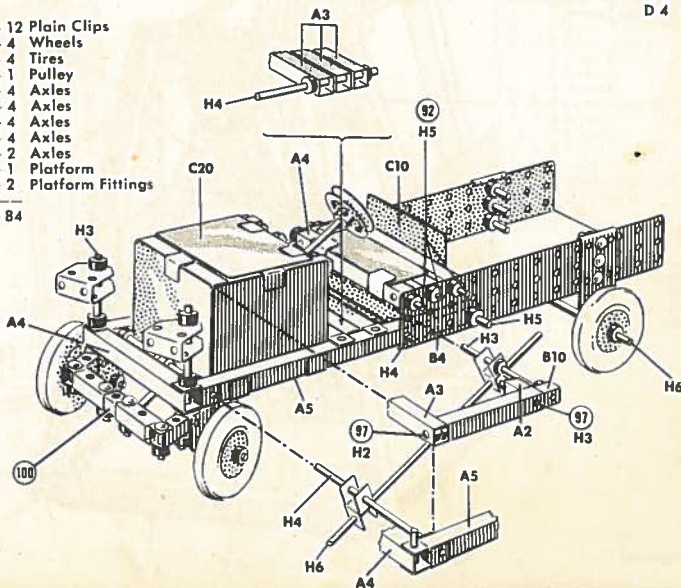
- F 1 — 20 Rivets
F 10 — 50 Rubber Grommets

**No. 165
TRUCK**

- | | |
|--------------------------|---------------------------|
| A 1 — 2 Outer Tubes | E 3 — 12 Plain Clips |
| A 2 — 3 Outer Tubes | G 1 — 4 Wheels |
| A 3 — 4 Outer Tubes | G 3 — 4 Tires |
| A 4 — 4 Outer Tubes | G 10 — 1 Pulley |
| A 5 — 2 Outer Tubes | H 2 — 4 Axles |
| A 10 — 2 Open End Tubes | H 3 — 4 Axles |
| B 4 — 2 Inner Tubes | H 4 — 4 Axles |
| B 10 — 5 Joining Tubes | H 5 — 4 Axles |
| C 10 — 2 Plates | H 6 — 2 Axles |
| C 20 — 4 Plates | N 1 — 1 Platform |
| D 1 — 4 Gussets | N 2 — 2 Platform Fittings |
| E 1 — 8 Connecting Clips | |

TOTAL pcs. — 84

- F 1 — 10 Rivets
F 10 — 43 Rubber Grommets

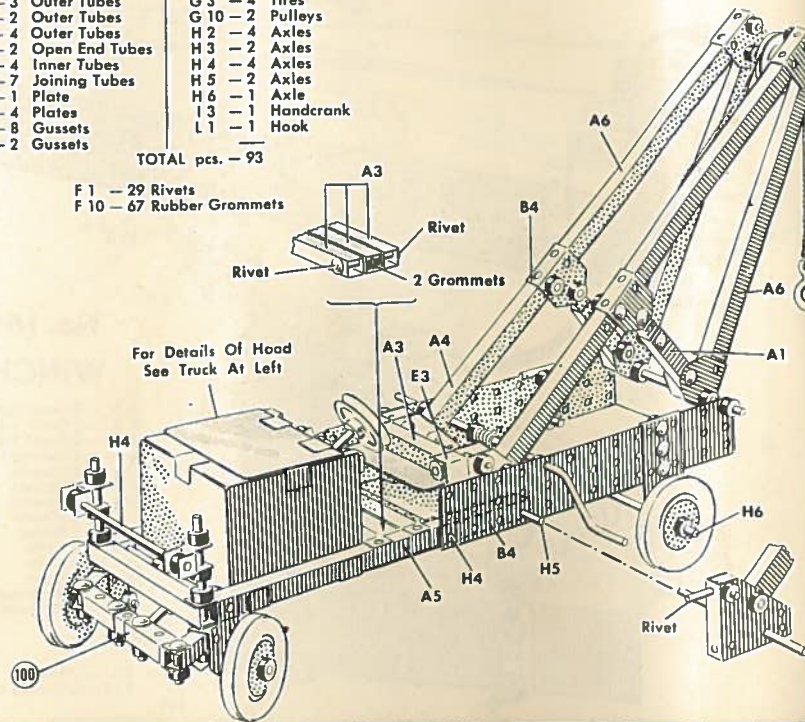


**No. 164
TOW TRUCK**

- | | |
|-------------------------|---------------------------|
| A 1 — 4 Outer Tubes | E 1 — 8 Connecting Clips |
| A 2 — 3 Outer Tubes | E 3 — 11 Connecting Clips |
| A 3 — 5 Outer Tubes | G 1 — 4 Wheels |
| A 4 — 3 Outer Tubes | G 3 — 4 Tires |
| A 5 — 2 Outer Tubes | G 10 — 2 Pulleys |
| A 6 — 4 Outer Tubes | H 2 — 4 Axles |
| A 10 — 2 Open End Tubes | H 3 — 2 Axles |
| B 4 — 4 Inner Tubes | H 4 — 4 Axles |
| B 10 — 7 Joining Tubes | H 5 — 2 Axles |
| C 10 — 1 Plate | H 6 — 1 Axle |
| C 20 — 4 Plates | I 3 — 1 Handcrank |
| D 1 — 8 Gussets | L 1 — 1 Hook |
| D 4 — 2 Gussets | |

TOTAL pcs. — 93

- F 1 — 29 Rivets
F 10 — 67 Rubber Grommets



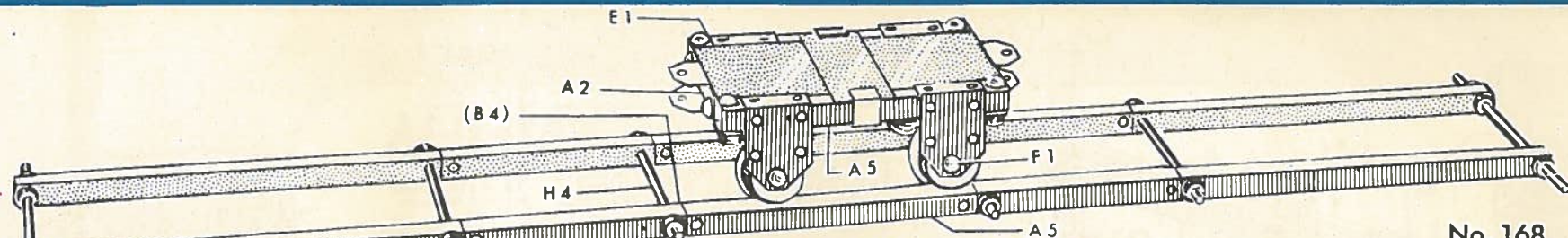
PLEASE NOTE —

Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS



No. 166 SMALL WAGON & TRACK

- | | |
|---------------------|--------------------------|
| A 2 - 2 Outer Tubes | D 1 - 2 Gussets |
| A 4 - 4 Outer Tubes | D 3 - 4 Gussets |
| A 5 - 4 Outer Tubes | E 1 - 4 Connecting Clips |
| A 6 - 4 Outer Tubes | E 3 - 2 Plain Clips |
| B 3 - 4 Inner Tubes | G 1 - 4 Wheels |
| B 4 - 4 Inner Tubes | H 4 - 4 Axles |
| C 10 - 1 Plate | H 5 - 2 Axles |
| C 21 - 1 Plate | |

TOTAL pcs. 46

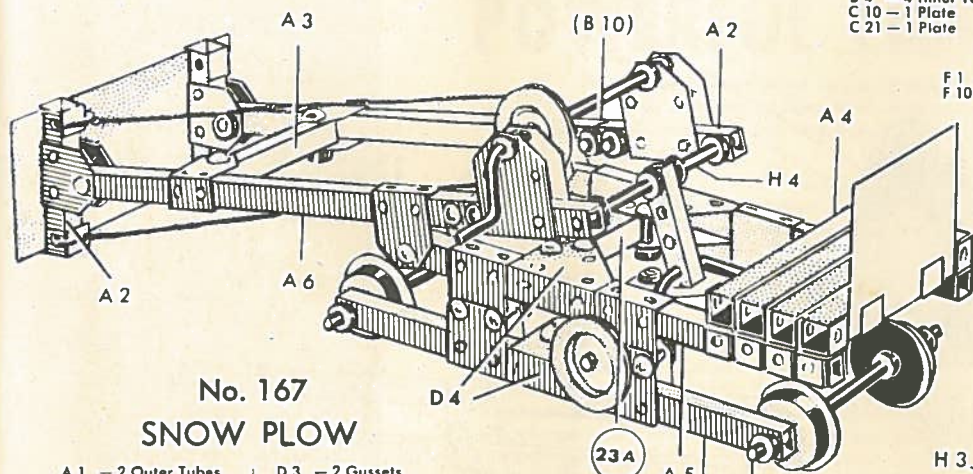
- F 1 - 12 Rivets
F 10 - 28 Rubber Grommets

No. 168
TRAVELING
EXCAVATOR

- | |
|------------------------|
| A 1 - 2 Outer Tubes |
| A 2 - 2 Outer Tubes |
| A 3 - 4 Outer Tubes |
| A 4 - 2 Outer Tubes |
| A 5 - 3 Outer Tubes |
| A 6 - 4 Outer Tubes |
| B 3 - 1 Inner Tube |
| B 4 - 1 Inner Tube |
| B 10 - 2 Joining Tubes |
| C 20 - 2 Plates |
| D 1 - 4 Gussets |
| D 2 - 8 Gussets |
| D 3 - 4 Gussets |
| D 4 - 4 Gussets |
| D 10 - 4 Gussets |
| E 3 - 4 Plain Clips |
| G 1 - 4 Wheels |
| G 3 - 4 Tires |
| G 10 - 2 Pulleys |
| H 2 - 3 Axles |
| H 3 - 2 Axles |
| H 4 - 1 Axle |
| H 5 - 2 Axles |
| I 3 - 1 Handcrank |

TOTAL pcs. 70

- F 1 - 26 Rivets
F 10 - 48 Rubber Grommets

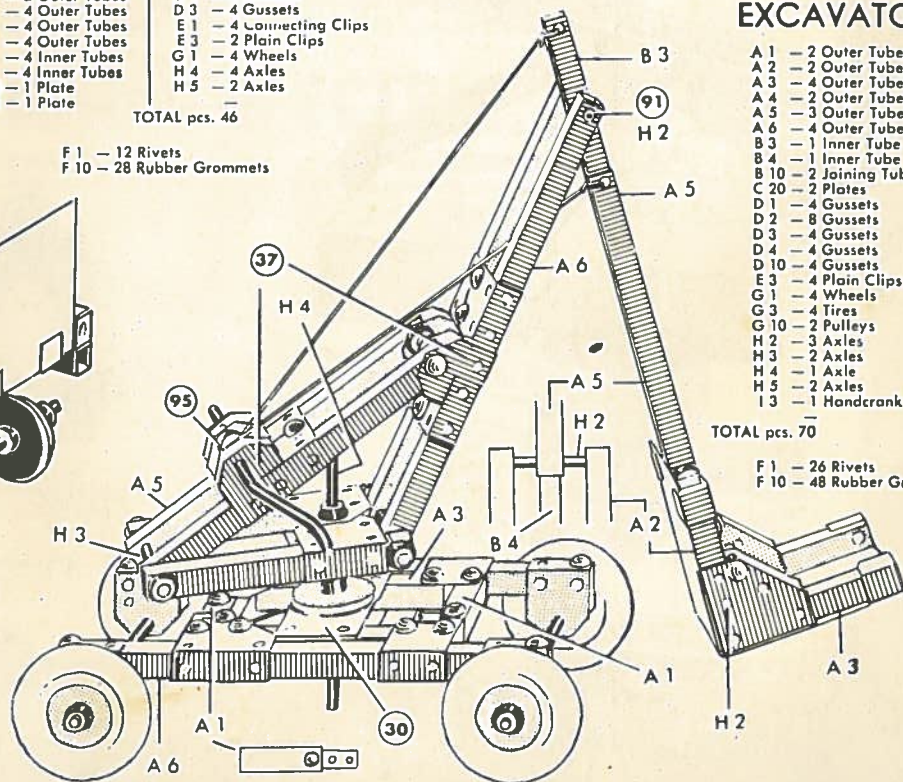


No. 167
SNOW PLOW

- | | |
|------------------------|---------------------------|
| A 1 - 2 Outer Tubes | D 3 - 2 Gussets |
| A 2 - 4 Outer Tubes | D 4 - 4 Gussets |
| A 3 - 3 Outer Tubes | E 1 - 10 Connecting Clips |
| A 4 - 4 Outer Tubes | E 3 - 6 Plain Clips |
| A 5 - 2 Outer Tubes | G 1 - 4 Wheels |
| A 6 - 4 Outer Tubes | G 10 - 2 Pulleys |
| B 10 - 5 Joining Tubes | H 4 - 1 Axle |
| C 20 - 1 Plate | H 5 - 2 Axles |
| C 21 - 1 Plate | I 3 - 1 Handcrank |
| D 1 - 4 Gussets | K 1 - 1 Crankshaft |
| D 2 - 8 Gussets | |

TOTAL pcs. 71

- F 1 - 14 Rivets
F 10 - 30 Rubber Grommets



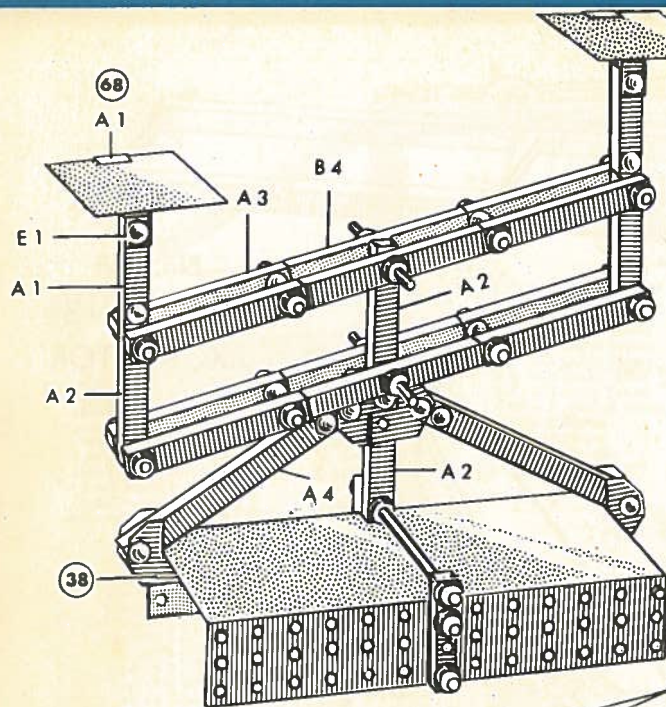
PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KITS

No. 169 BALANCE SCALE



- A 1 - 4 Outer Tubes
- A 2 - 4 Outer Tubes
- A 3 - 8 Outer Tubes
- A 4 - 2 Outer Tubes
- B 4 - 4 Inner Tubes
- B 10 - 7 Joining Tubes
- C 20 - 2 Plates
- D 10 - 4 Gussets
- E 1 - 2 Connecting Clips
- E 3 - 2 Plain Clips
- H 2 - 4 Axles
- H 3 - 2 Axles
- H 4 - 2 Axles
- H 5 - 3 Axles
- N 1 - 1 Platform

TOTAL pcs. 51

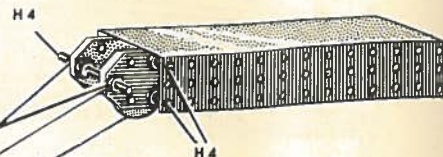
- F 1 - 21 Rivets
- F 10 - 49 Rubber Grommets

No. 170 CABLE CART

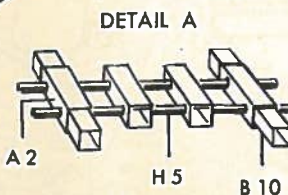
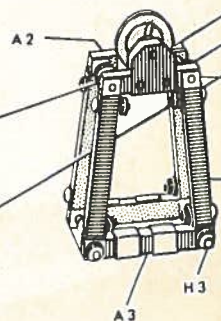
- A 2 - 2 Outer Tubes
- A 3 - 6 Outer Tubes
- A 4 - 4 Outer Tubes
- B 10 - 4 Joining Tubes
- C 20 - 1 Plate
- D 1 - 2 Gussets
- D 3 - 2 Gussets
- D 4 - 2 Gussets
- E 3 - 4 Plain Clips
- G 1 - 2 Wheels
- G 10 - 2 Pulleys
- H 2 - 3 Axles
- H 3 - 2 Axles
- H 4 - 4 Axles
- H 5 - 4 Axles
- H 6 - 2 Axles
- I 3 - 1 Handcrank
- N 1 - 2 Platforms

TOTAL pcs. 49

- F 1 - 2 Rivets
- F 10 - 50 Rubber Grommets



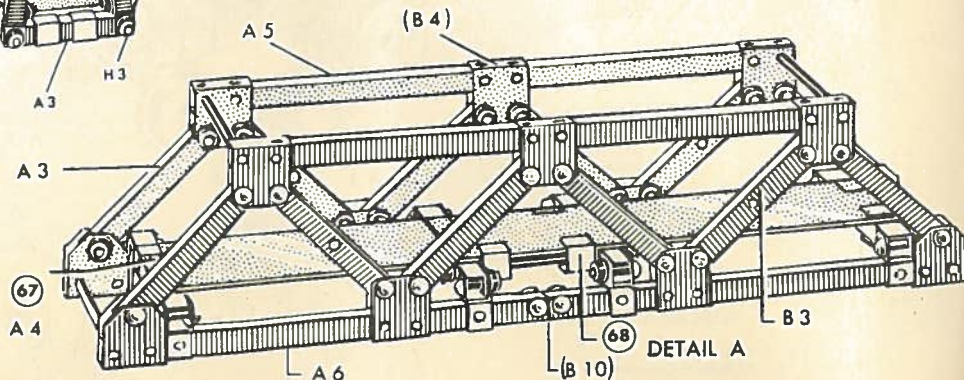
No. 171 BRIDGE SPAN



- A 2 - 4 Outer Tubes
- A 3 - 8 Outer Tubes
- A 4 - 2 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 4 Inner Tubes
- B 4 - 2 Inner Tubes
- B 10 - 6 Joining Tubes
- C 20 - 1 Plate
- C 21 - 2 Plates
- D 1 - 4 Gussets
- D 2 - 10 Gussets
- E 1 - 8 Connecting Clips
- E 3 - 8 Plain Clips
- H 4 - 4 Axles
- H 5 - 2 Axles

TOTAL pcs. 73

- F 1 - 36 Rivets
- F 10 - 48 Rubber Grommets



26

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

NOW! - 38 pages of the most exciting and realistic models you have ever seen!

On the pages which follow are photographs of, and building directions for, larger, more intricate models. Many of them can be made with Construction Kits 343 and 454; all of them can be built with Kit 565.

POWERFUL LIONEL ELECTRIC MOTOR

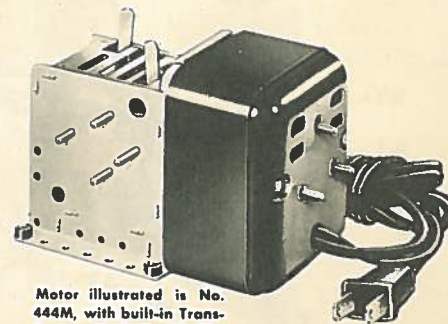
This specially-designed Lionel Motor can be used to put a number of your completed models into realistic, exciting action. With it, you can make Windmills and Fans revolve, you can make Ferris Wheels and Circular Saws turn. You can operate Cranes and Airplane Rides and many, many other models.

Designed by Lionel engineers and built in the same factory that makes the famous Lionel Trains, the Electric Motor packed with your Construction Kit is one of the finest of its kind in the world.

The main drive shaft revolves at 3,000 R. P. M. and provides high speed take-off. Other shafts provide speeds ranging between 50 and 300 R. P. M. Easy-to-manipulate levers having three positions — forward, neutral and reverse — provide easy shaft control for the operator. An all-metal Safety Grill protects the gears.

Kit 232 contains Motor 232M, which has two shafts — one forward, the other reverse — in addition to main power take-off drive shaft.

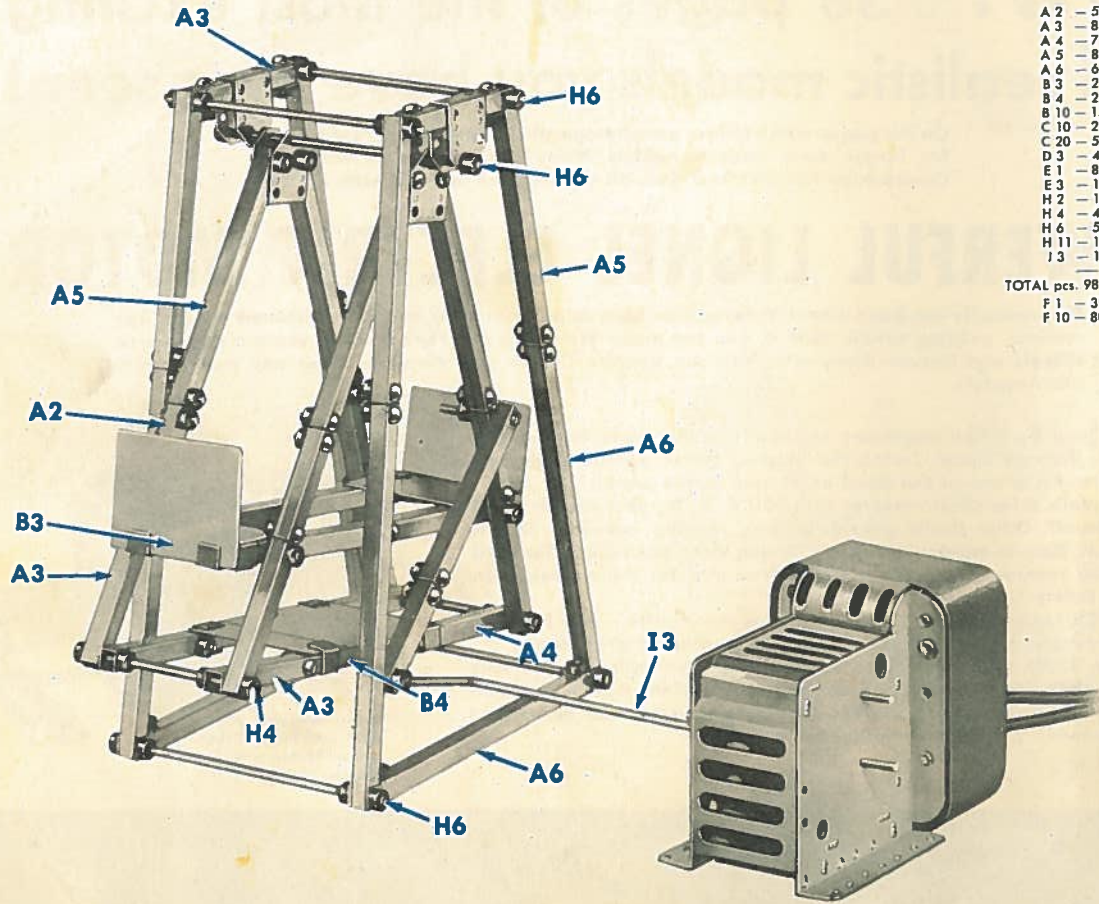
Motor 333M, with four shafts, forward and reverse, is included with Kit 343, while Kits 454 and 565 contain Motor 444M with four shafts forward and reverse plus a built-in Transformer which can be used to illuminate many of the Construction Kit models.



Motor illustrated is No. 444M, with built-in Transformer. Packed with Kits 454 and 565.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 232

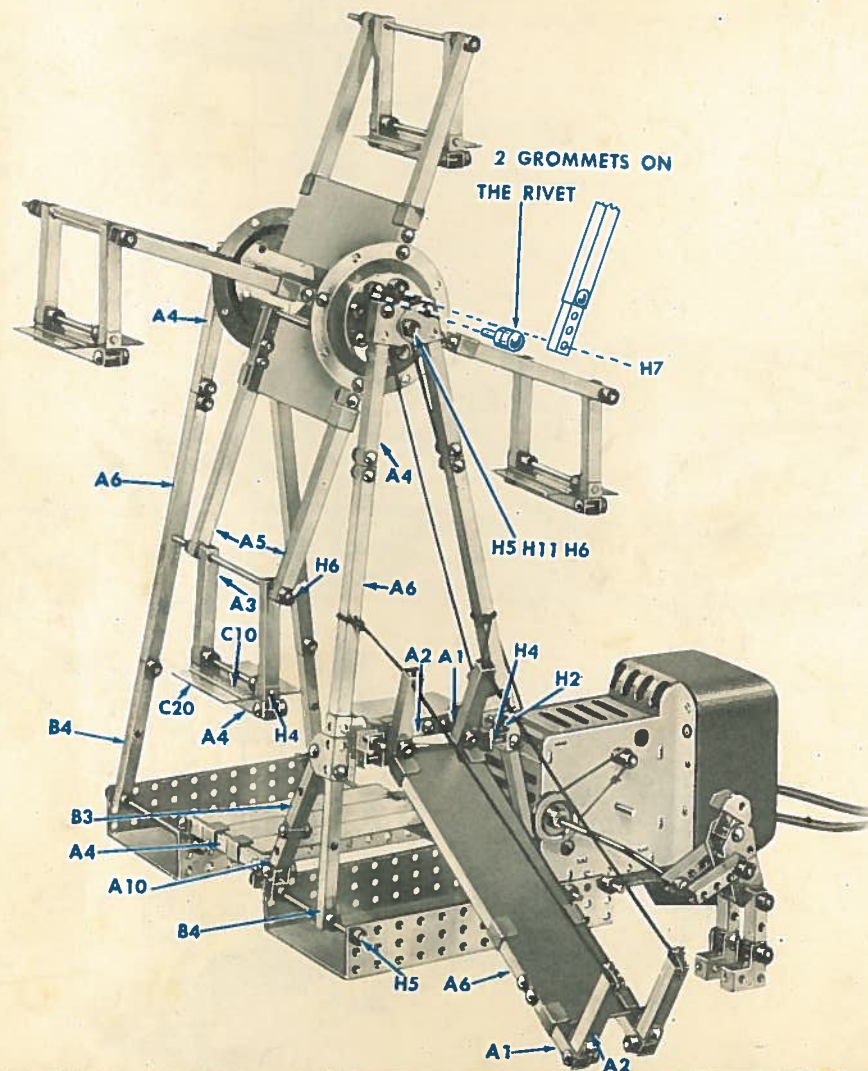
No. 200 SWING



- A 2 — 5 Outer Tubes
 - A 3 — 8 Outer Tubes
 - A 4 — 7 Outer Tubes
 - A 5 — 8 Outer Tubes
 - A 6 — 6 Outer Tubes
 - B 3 — 2 Inner Tubes
 - B 4 — 2 Inner Tubes
 - B 10 — 15 Joining Tubes
 - C 10 — 2 Plates
 - C 20 — 5 Plates
 - D 3 — 4 Gusssets
 - E 1 — 8 Connecting Clips
 - E 3 — 14 Plain Clips
 - H 2 — 1 Axle
 - H 4 — 4 Axles
 - H 6 — 5 Axles
 - H 11 — 1 Coupling
 - I 3 — 1 Handcrank
- TOTAL pcs. 98
- F 1 — 39 Rivets
 - F 10 — 80 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 232



No. 201 FERRIS WHEEL

- A 1 — 3 Outer Tubes
- A 2 — 5 Outer Tubes
- A 3 — 8 Outer Tubes
- A 4 — 10 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 6 Outer Tubes
- A 10 — 4 Open End Tubes
- B 3 — 4 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 15 Joining Tubes
- C 10 — 4 Plates
- C 11 — 3 Plates
- C 20 — 6 Plates
- C 21 — 5 Plates
- D 1 — 8 Gussets
- D 10 — 2 Gussets
- E 1 — 20 Connecting Clips
- E 3 — 20 Plain Clips
- G 2 — 2 Hubs
- G 10 — 2 Pulleys
- H 2 — 4 Axles
- H 4 — 4 Axles
- H 5 — 6 Axles
- H 6 — 6 Axles
- H 10 — 2 Sleeves
- H 11 — 1 Coupling
- H 3 — 1 Handcrank
- N 1 — 2 Platforms

TOTAL pcs. 165

- F 1 — 61 Rivets
- F 10 — 120 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

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Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

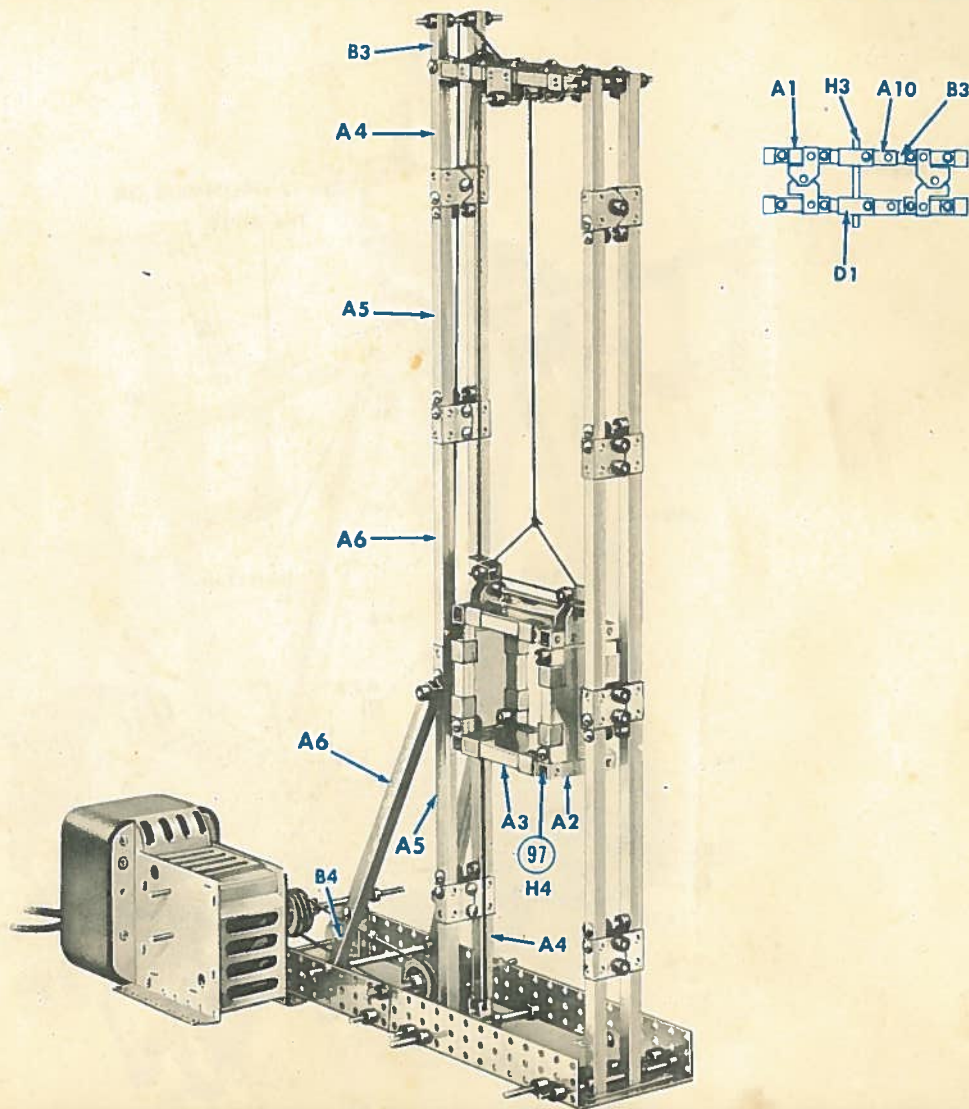
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 232


No. 202 ELEVATOR

- A 1 — 4 Outer Tubes
- A 2 — 5 Outer Tubes
- A 3 — 8 Outer Tubes
- A 4 — 8 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 4 Outer Tubes
- A 10 — 2 Open End Tubes
- B 3 — 4 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 15 Joining Tubes
- C 20 — 4 Plates
- D 1 — 8 Gussets
- D 2 — 12 Gussets
- D 4 — 1 Gusset
- D 10 — 4 Gussets
- E 1 — 20 Connecting Clips
- E 3 — 16 Plain Clips
- G 10 — 3 Pulleys
- H 3 — 6 Axles
- H 4 — 5 Axles
- H 5 — 6 Axles
- H 6 — 3 Axles
- H 11 — 1 Coupling

TOTAL pcs. 153

- F 1 — 68 Rivets
- F 10 — 120 Rubber Grommets



PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

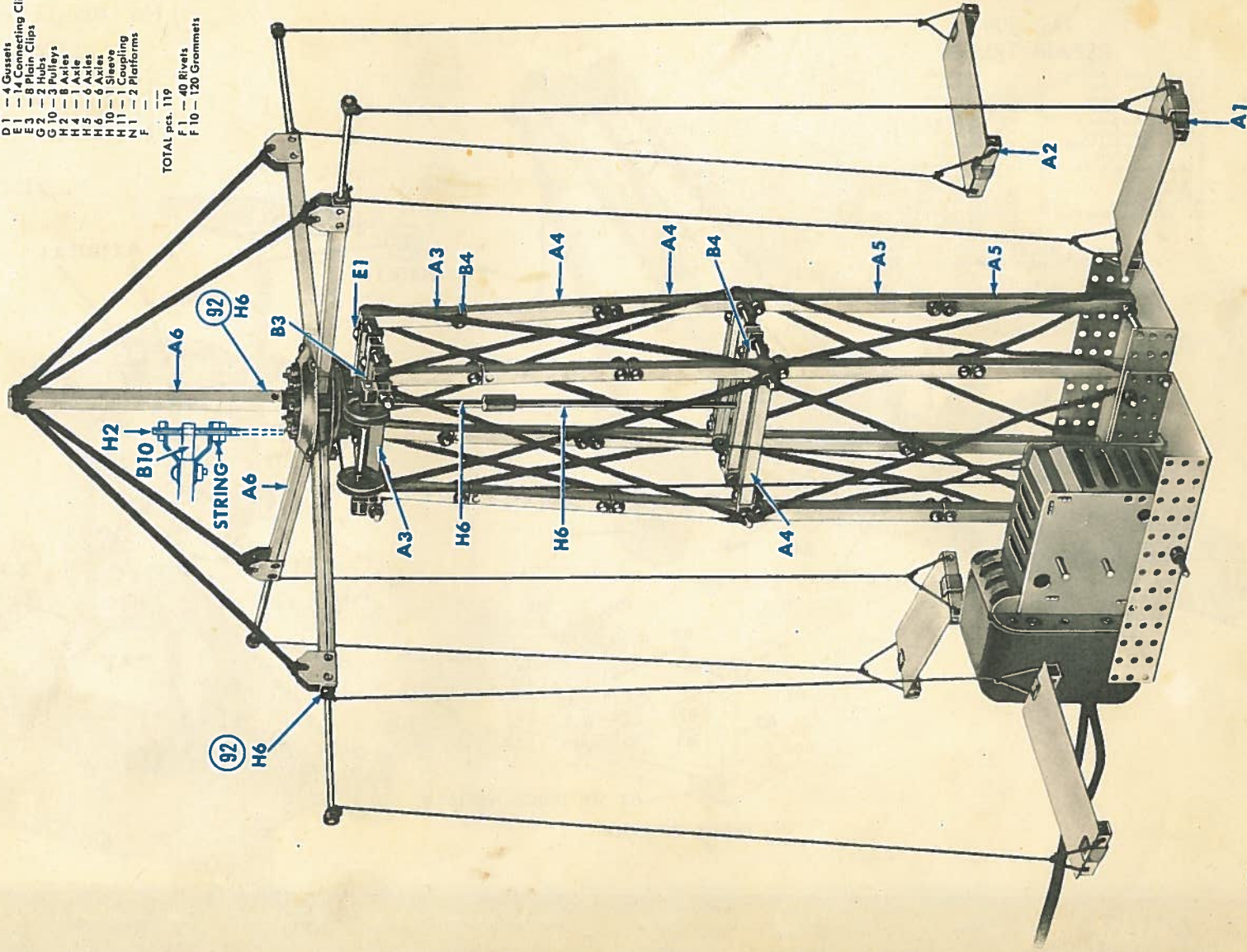
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 203
AERIAL
SWING

- A 1 — 4 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 6 Outer Tubes
- A 4 — 10 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 3 Outer Tubes
- B 3 — 3 Inner Tubes
- B 4 — 3 Inner Tubes
- B 10 — 16 Joining Tubes
- C 21 — 4 Plates
- D 1 — 4 Gussets
- E 1 — 14 Connecting Clips
- F 1 — 2 Main Clips
- G 2 — 2 Pulleys
- G 10 — 3 Pulleys
- H 2 — 8 Axles
- H 4 — 1 Axle
- H 5 — 6 Axles
- H 6 — 6 Axles
- H 10 — 1 Sleeve
- H 11 — 1 Spring
- N 1 — 2 Platforms
- F —

TOTAL pcs. 119

- F 1 — 40 Rivets
- F 10 — 120 Grommets

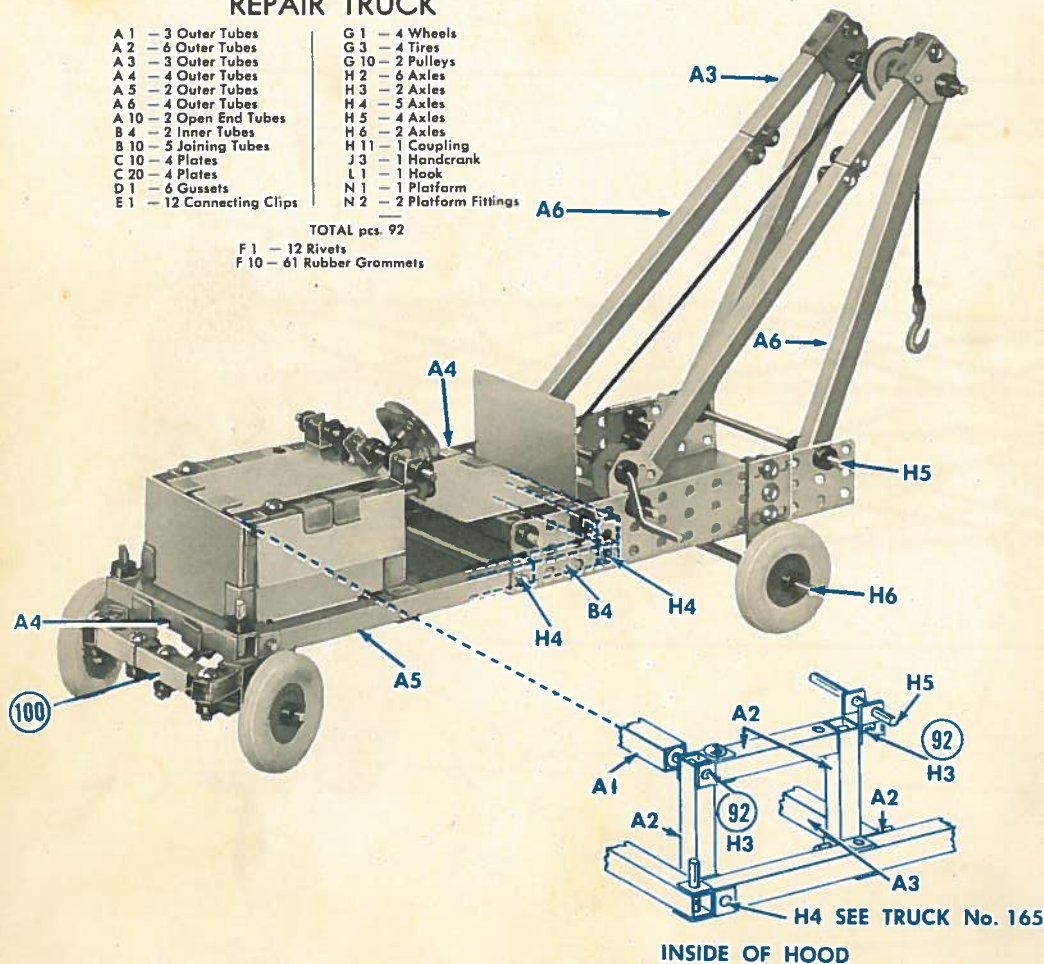


MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 232

No. 204 REPAIR TRUCK

- | | |
|---------------------------|---------------------------|
| A 1 — 3 Outer Tubes | G 1 — 4 Wheels |
| A 2 — 6 Outer Tubes | G 3 — 4 Tires |
| A 3 — 3 Outer Tubes | G 10 — 2 Pulleys |
| A 4 — 4 Outer Tubes | H 2 — 6 Axles |
| A 5 — 2 Outer Tubes | H 3 — 2 Axles |
| A 6 — 4 Outer Tubes | H 4 — 5 Axles |
| A 10 — 2 Open End Tubes | H 5 — 4 Axles |
| B 4 — 2 Inner Tubes | H 6 — 2 Axles |
| B 10 — 5 Joining Tubes | H 11 — 1 Coupling |
| C 10 — 4 Plates | J 3 — 1 Handcrank |
| C 20 — 4 Plates | L 1 — 1 Hook |
| D 1 — 6 Gussets | N 1 — 1 Platform |
| E 1 — 12 Connecting Clips | N 2 — 2 Platform Fittings |

TOTAL pcs. 92
F 1 — 12 Rivets
F 10 — 61 Rubber Grommets

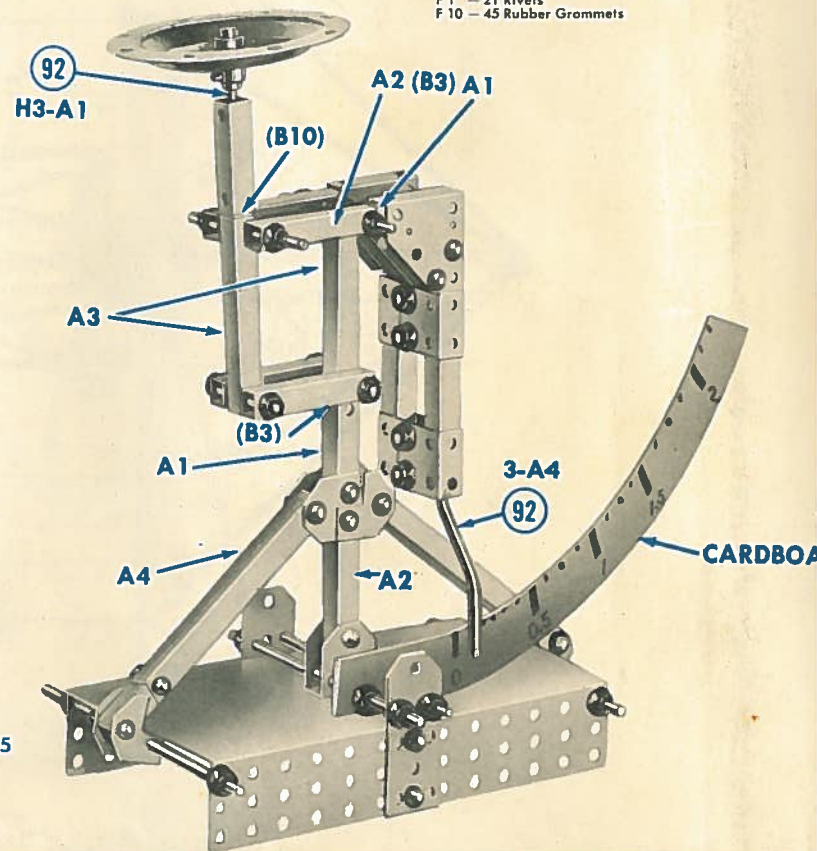


No. 205 LETTER SCALE

- | | |
|------------------------|---------------------------|
| A 1 — 4 Outer Tubes | D 10 — 4 Gussets |
| A 2 — 5 Outer Tubes | G 2 — 1 Hub |
| A 3 — 2 Outer Tubes | H 2 — 2 Axles |
| A 4 — 4 Outer Tubes | H 3 — 3 Axles |
| B 3 — 3 Inner Tubes | H 5 — 4 Axles |
| B 10 — 4 Joining Tubes | H 10 — 2 Axles |
| D 1 — 1 Gusset | J 3 — 1 Handcrank |
| D 2 — 4 Gussets | N 1 — 1 Platform |
| D 4 — 2 Gussets | N 2 — 2 Platform Fittings |

TOTAL pcs. 49

F 1 — 21 Rivets
F 10 — 45 Rubber Grommets



PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

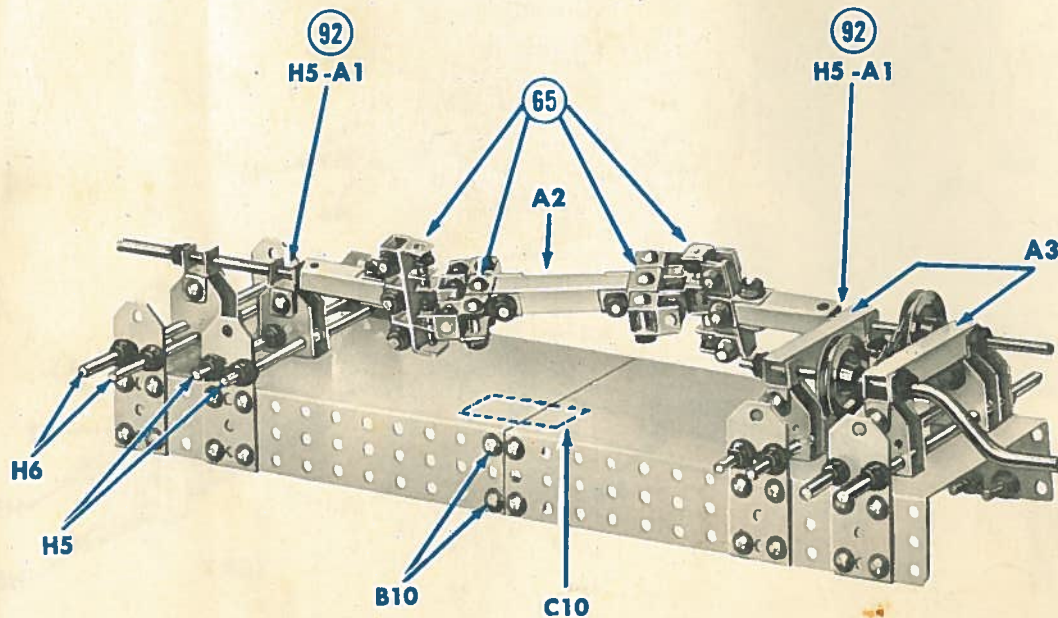
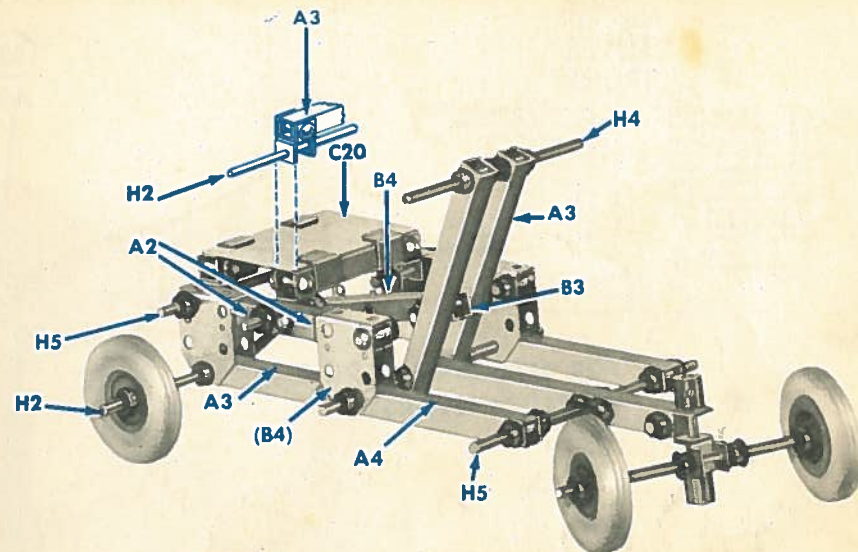
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 232

No. 207 IRISH MAIL

- A 1 — 1 Outer Tube
- A 2 — 4 Outer Tubes
- A 3 — 6 Outer Tubes
- A 4 — 3 Outer Tubes
- B 3 — 2 Inner Tubes
- B 4 — 3 Inner Tubes
- B 10 — 3 Joining Tubes
- C 20 — 1 Plate
- D 3 — 4 Gussets
- E 1 — 6 Connecting Clips
- E 3 — 4 Plain Clips
- G 1 — 4 Wheels
- G 3 — 4 Tires
- G 10 — 2 Pulleys
- H 2 — 6 Axles
- H 4 — 1 Axle
- H 5 — 4 Axles
- H 10 — 2 Sleeves
- K 1 — 1 Crankshaft


TOTAL pcs. 61
 F 1 — 10 Rivets
 F 10 — 42 Rubber Grommets




No. 206 UNIVERSAL JOINT

- A 1 — 2 Outer Tubes
- A 2 — 1 Outer Tube
- A 3 — 2 Outer Tubes
- A 10 — 4 Open End Tubes
- B 10 — 4 Joining Tubes
- C 10 — 2 Plates
- D 1 — 6 Gussets
- E 1 — 20 Connecting Clips
- G 10 — 2 Pulleys
- H 2 — 4 Axles
- H 5 — 6 Axles
- H 6 — 4 Axles
- I 3 — 1 Handcrank
- N 1 — 2 Platforms
- N 2 — 8 Platform Fittings

TOTAL pcs. 68
 F 1 — 62 Rivets
 F 10 — 110 Rubber Grommets

PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS  indicates the number of the part that is concealed.

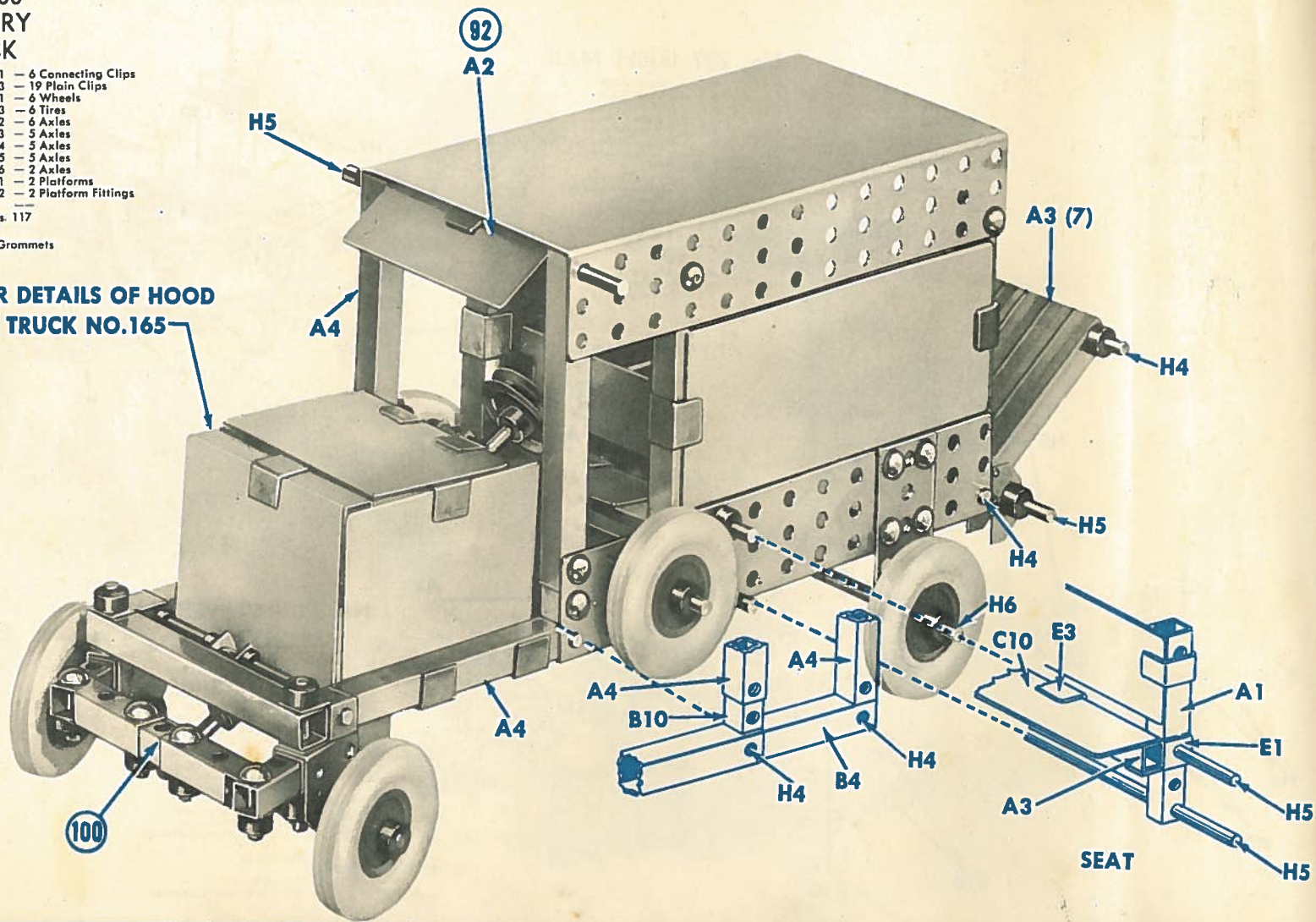
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 208 DELIVERY TRUCK

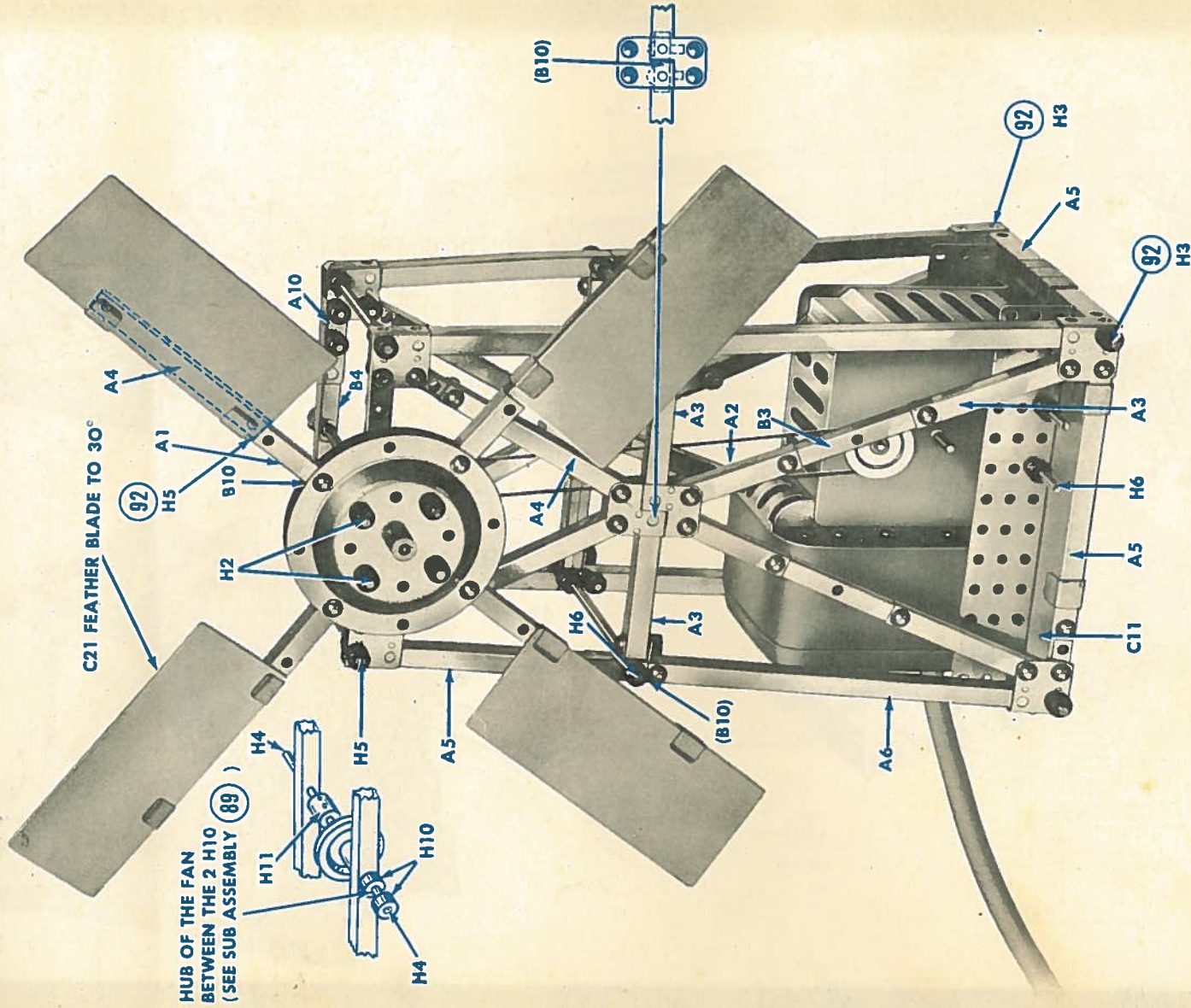
- | | |
|------------------------|---------------------------|
| A 1 — 4 Outer Tubes | E 1 — 6 Connecting Clips |
| A 2 — 4 Outer Tubes | E 3 — 19 Plain Clips |
| A 3 — 8 Outer Tubes | G 1 — 6 Wheels |
| A 4 — 9 Outer Tubes | G 3 — 6 Tires |
| A 10 — 2 Open Tubes | H 2 — 6 Axles |
| B 4 — 2 Inner Tubes | H 3 — 5 Axles |
| B 10 — 9 Joining Tubes | H 4 — 5 Axles |
| C 10 — 5 Plates | H 5 — 5 Axles |
| C 20 — 4 Plates | H 6 — 2 Axles |
| C 21 — 2 Plates | N 1 — 2 Platform Fittings |
| D 1 — 2 Gussets | N 2 — 2 Platform Fittings |
| D 10 — 2 Gussets | |

TOTAL pcs. 117
F 1 — 20 Rivets
F 10 — 60 Rubber Grommets

FOR DETAILS OF HOOD
SEE TRUCK NO. 165



PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.



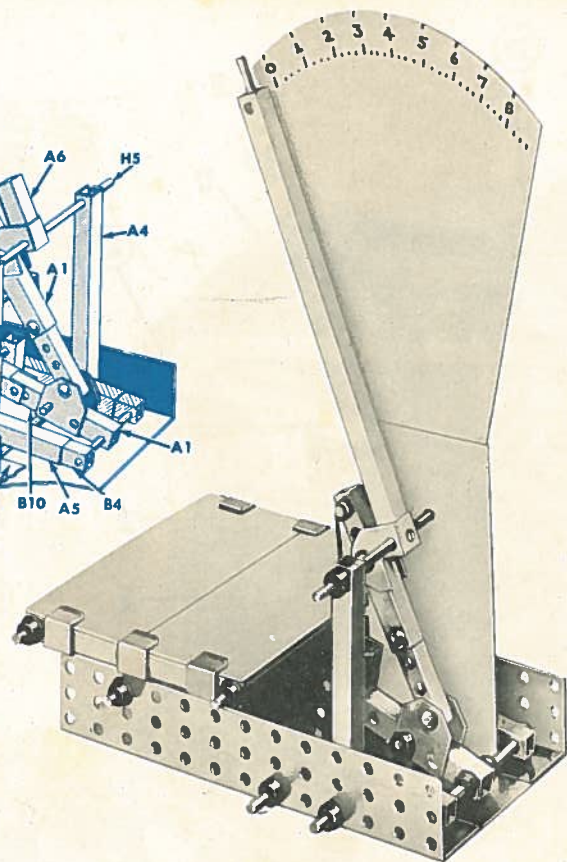
No. 209 ELECTRIC FAN

| | | | |
|------|------------------|------|--------------------|
| A 1 | 4 Outer Tubes | D 11 | 4 Gussets |
| A 2 | 6 Outer Tubes | E 1 | 4 Connecting Clips |
| A 3 | 8 Outer Tubes | E 2 | 2 Chain Clips |
| A 4 | 8 Outer Tubes | G 2 | 2 Pulleys |
| A 5 | 8 Outer Tubes | G 10 | 2 Pulleys |
| A 6 | 4 Outer Tubes | H 2 | 4 Axles |
| A 10 | 4 Outer Tubes | H 3 | 4 Axles |
| B 1 | 4 Open End Tubes | H 4 | 2 Axles |
| B 3 | 4 Inner Tubes | H 5 | 2 Axles |
| B 4 | 2 Inner Tubes | H 6 | 4 Axles |
| C 11 | 2 Joining Tubes | H 10 | 4 Sleeves |
| D 2 | 4 Plates | H 11 | 1 Sleeve |
| D 11 | 4 Gussets | N 1 | 1 Platform |

ABCDEGHN TOTAL pcs. 128

F 1 - 58 Rivets

F 10 - 108 Rubber Grommets



**No. 210
PLATFORM SCALE**

- A 1 — 2 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 2 Outer Tubes
- A 4 — 2 Outer Tubes
- A 5 — 1 Outer Tube
- A 6 — 1 Open End Tube
- A 10 — 1 Inner Tube
- B 4 — 2 Inner Tubes
- B 10 — 9 Joining Tubes
- C 10 — 2 Plates
- C 21 — 2 Plates
- D 1 — 3 Gussets
- D 2 — 1 Gusset
- D 10 — 1 Gusset
- E 3 — 6 Plain Clips
- H 2 — 2 Axles
- H 3 — 2 Axles
- H 4 — 4 Axles
- H 5 — 2 Axles
- H 6 — 2 Axles
- N 1 — 1 Platform

TOTAL pcs. 49

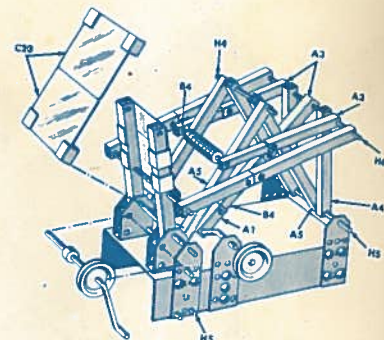
- F 1 — 7 Rivets
- F 10 — 34 Rubber Grommets

No. 211 PRINTING PRESS

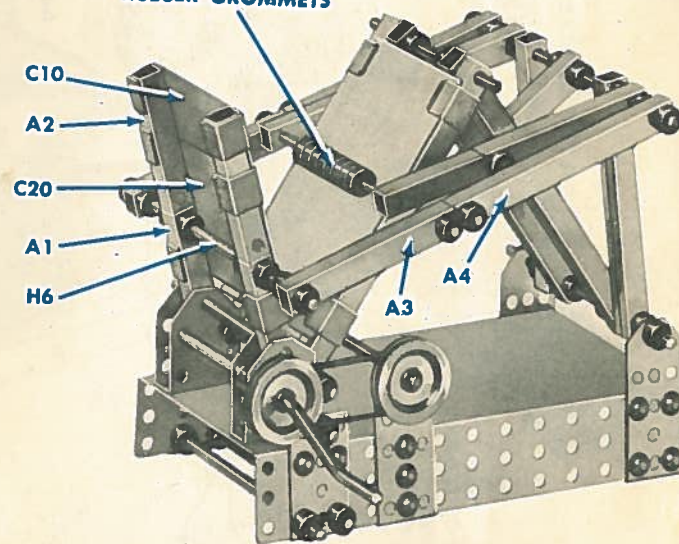
- A 1 — 3 Outer Tubes
- A 2 — 2 Outer Tubes
- A 3 — 5 Outer Tubes
- A 4 — 4 Outer Tubes
- A 5 — 4 Outer Tubes
- B 3 — 2 Inner Tubes
- B 4 — 3 Inner Tubes
- B 10 — 2 Joining Tubes
- C 10 — 1 Plate
- C 20 — 3 Plates
- D 3 — 2 Gussets
- E 3 — 10 Plain Clips
- G 10 — 2 Pulleys
- H 4 — 3 Axles
- H 5 — 5 Axles
- H 6 — 2 Axles
- H 10 — 1 Sleeve
- I 3 — 1 Handcrank
- K 1 — 1 Crankshaft
- N 1 — 1 Platform
- N 2 — 6 Platform Fittings


TOTAL pcs. 62

- F 1 — 26 Rivets
- F 10 — 75 Rubber Grommets



RUBBER GROMMETS

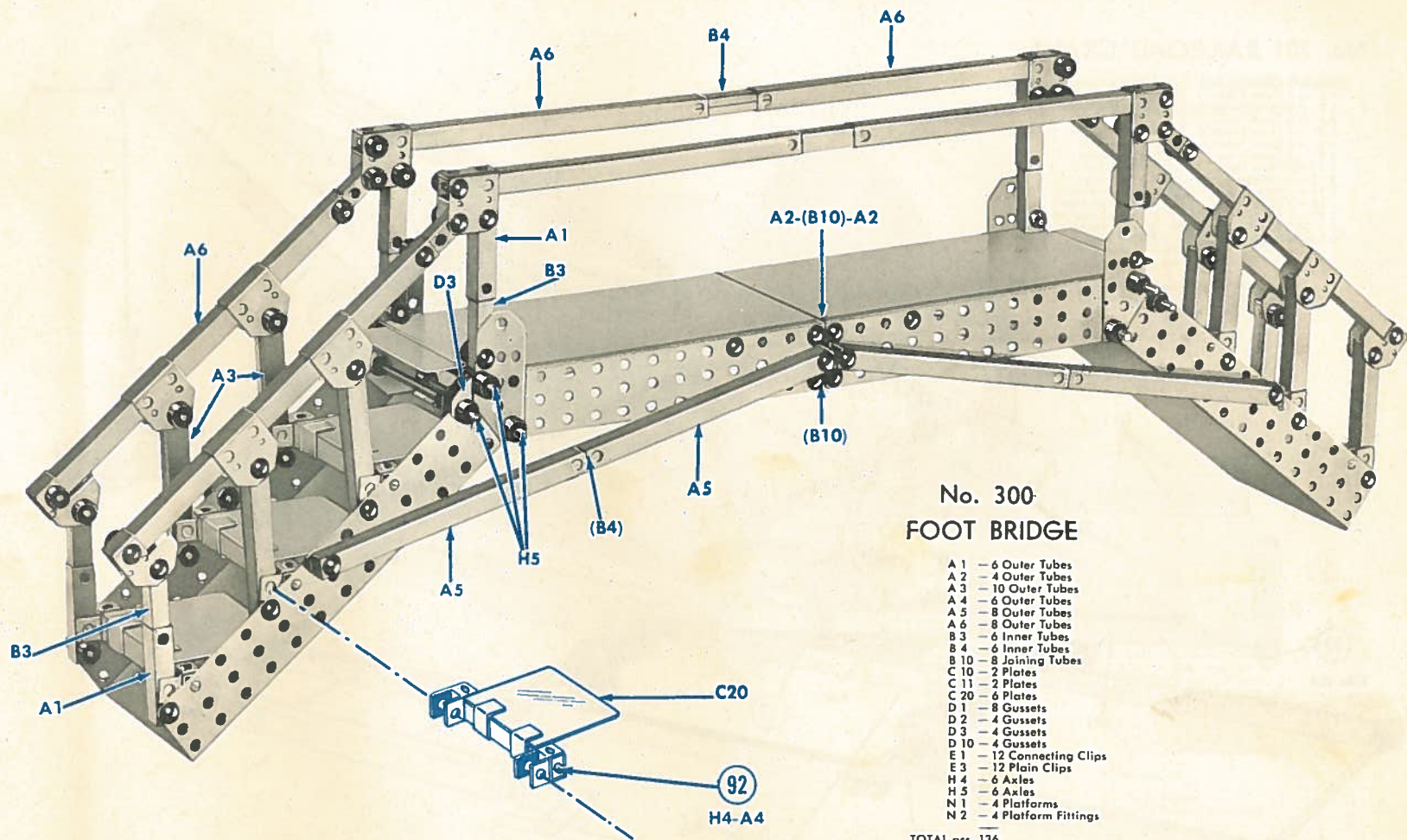


PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343



No. 300 FOOT BRIDGE

- A 1 — 6 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 10 Outer Tubes
- A 4 — 6 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 8 Outer Tubes
- B 3 — 6 Inner Tubes
- B 4 — 6 Inner Tubes
- B 10 — 8 Joining Tubes
- C 10 — 2 Plates
- C 11 — 2 Plates
- C 20 — 6 Plates
- D 1 — 8 Gussets
- D 2 — 4 Gussets
- D 3 — 4 Gussets
- D 10 — 4 Gussets
- E 1 — 12 Connecting Clips
- E 3 — 12 Plain Clips
- H 4 — 6 Axles
- H 5 — 6 Axles
- N 1 — 4 Platforms
- N 2 — 4 Platform Fittings

TOTAL pcs. 136

- F 1 — 68 Rivets
- F 10 — 110 Rubber Grammets

PLEASE NOTE —

Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

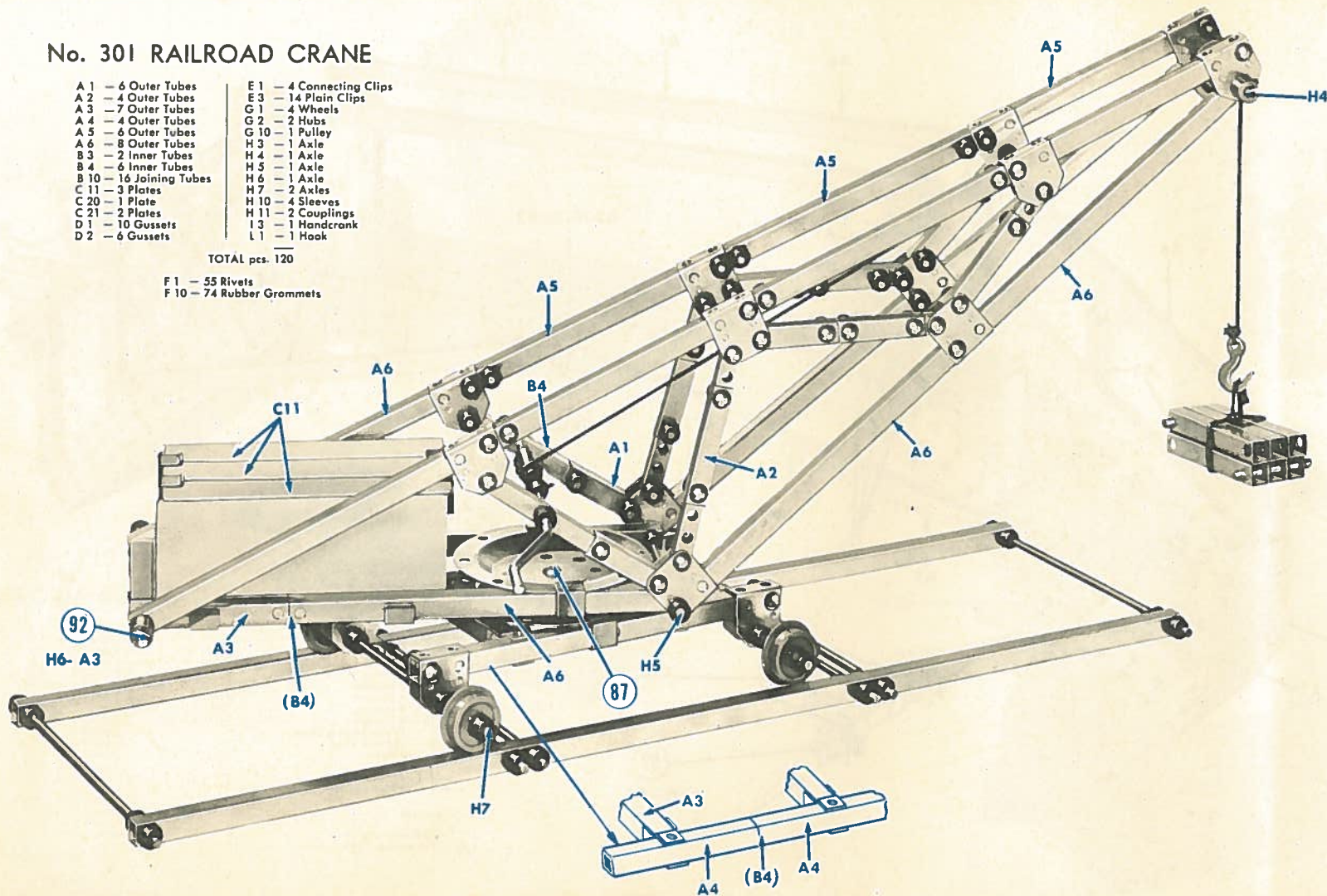
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343



No. 301 RAILROAD CRANE

- | | |
|-------------------------|--------------------------|
| A 1 — 6 Outer Tubes | E 1 — 4 Connecting Clips |
| A 2 — 4 Outer Tubes | E 3 — 14 Plain Clips |
| A 3 — 7 Outer Tubes | G 1 — 4 Wheels |
| A 4 — 4 Outer Tubes | G 2 — 2 Hubs |
| A 5 — 6 Outer Tubes | G 10 — 1 Pulley |
| A 6 — 8 Outer Tubes | H 3 — 1 Axle |
| B 3 — 2 Inner Tubes | H 4 — 1 Axle |
| B 4 — 6 Inner Tubes | H 5 — 1 Axle |
| B 10 — 16 Joining Tubes | H 6 — 1 Axle |
| C 11 — 3 Plates | H 7 — 2 Axles |
| C 20 — 1 Plate | H 10 — 4 Sleeves |
| C 21 — 2 Plates | H 11 — 2 Couplings |
| D 1 — 10 Gussets | I 3 — 1 Handcrank |
| D 2 — 6 Gussets | L 1 — 1 Hook |

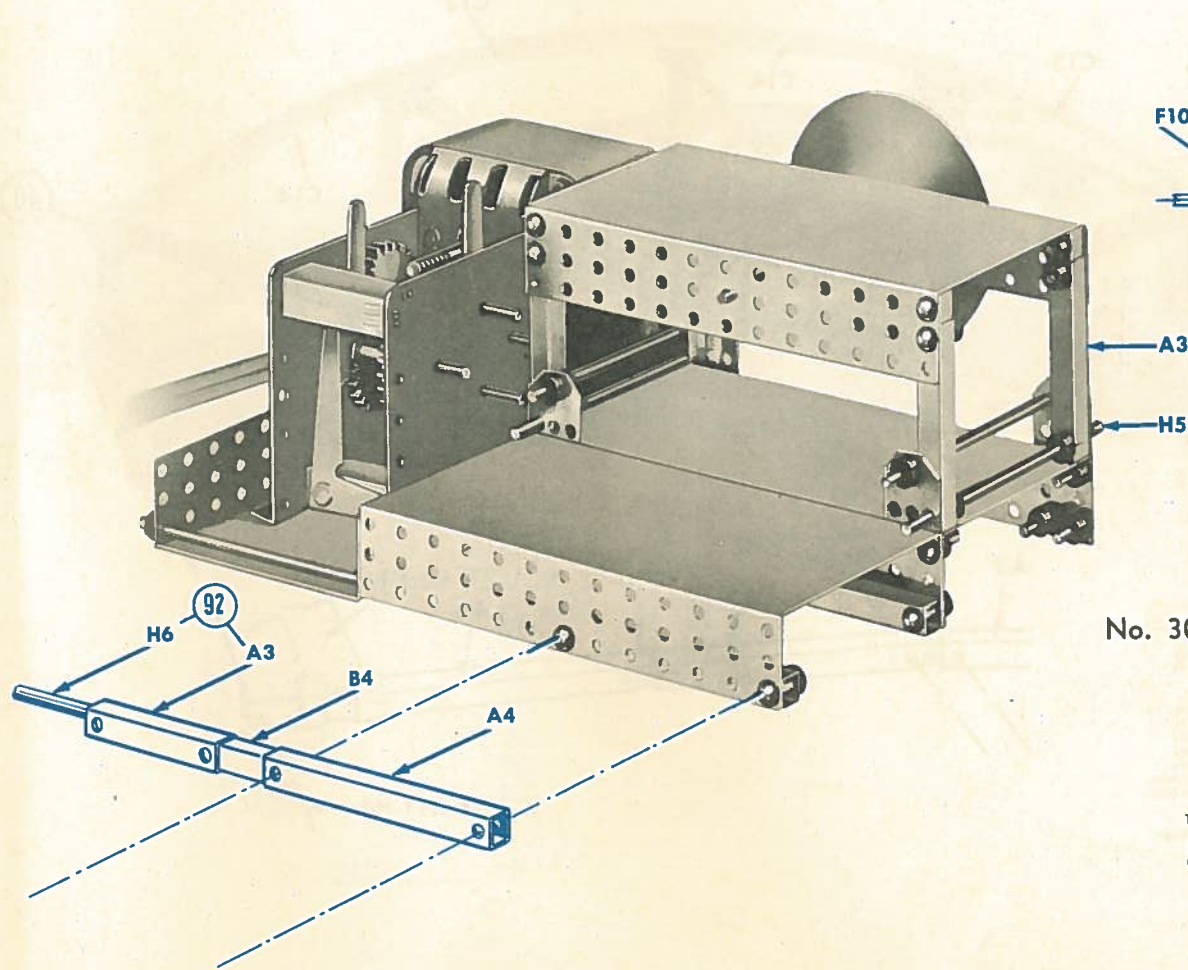
TOTAL pcs. 120

F 1 — 55 Rivets
F 10 — 74 Rubber Grommets

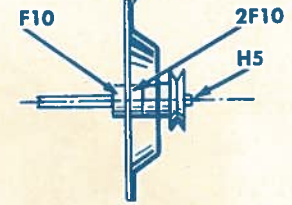


PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS  indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343



CUT DISC OF SAND PAPER
AND CEMENT TO G2.




No. 302 DISC SANDER

- A 3 — 6 Outer Tubes
- A 4 — 2 Outer Tubes
- B 4 — 2 Inner Tubes
- B 10 — 4 Joining Tubes,
- G 2 — 1 Hub
- G 10 — 2 Pulleys
- H 5 — 5 Axles
- H 6 — 2 Axles
- N 1 — 4 Platforms
- N 2 — 4 Platform Fittings

TOTAL pcs 32

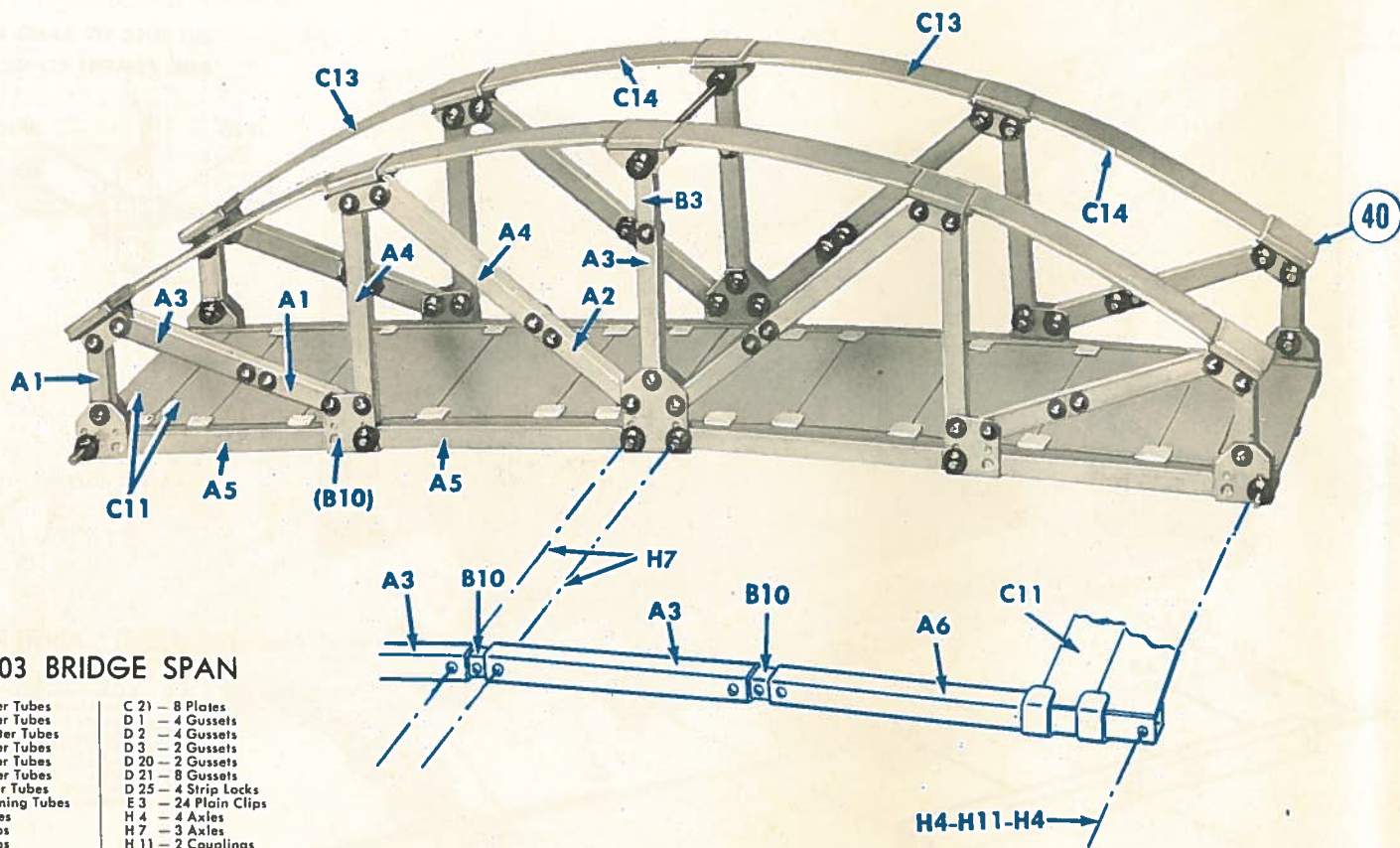
- F 1 — 24 Rivets
- F 10 — 36 Rubber Grommets

PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343



No. 303 BRIDGE SPAN

| | |
|-------------------------|----------------------|
| A 1 — 8 Outer Tubes | C 21 — 8 Plates |
| A 2 — 4 Outer Tubes | D 1 — 4 Gussets |
| A 3 — 10 Outer Tubes | D 2 — 4 Gussets |
| A 4 — 8 Outer Tubes | D 3 — 2 Gussets |
| A 5 — 8 Outer Tubes | D 20 — 2 Gussets |
| A 6 — 4 Outer Tubes | D 21 — 8 Gussets |
| B 3 — 2 Inner Tubes | D 25 — 4 Strip Locks |
| B 10 — 14 Joining Tubes | E 3 — 24 Plain Clips |
| C 11 — 4 Plates | H 4 — 4 Axles |
| C 13 — 4 Strips | H 7 — 3 Axles |
| C 14 — 4 Strips | H 11 — 2 Couplings |

TOTAL pts. 137

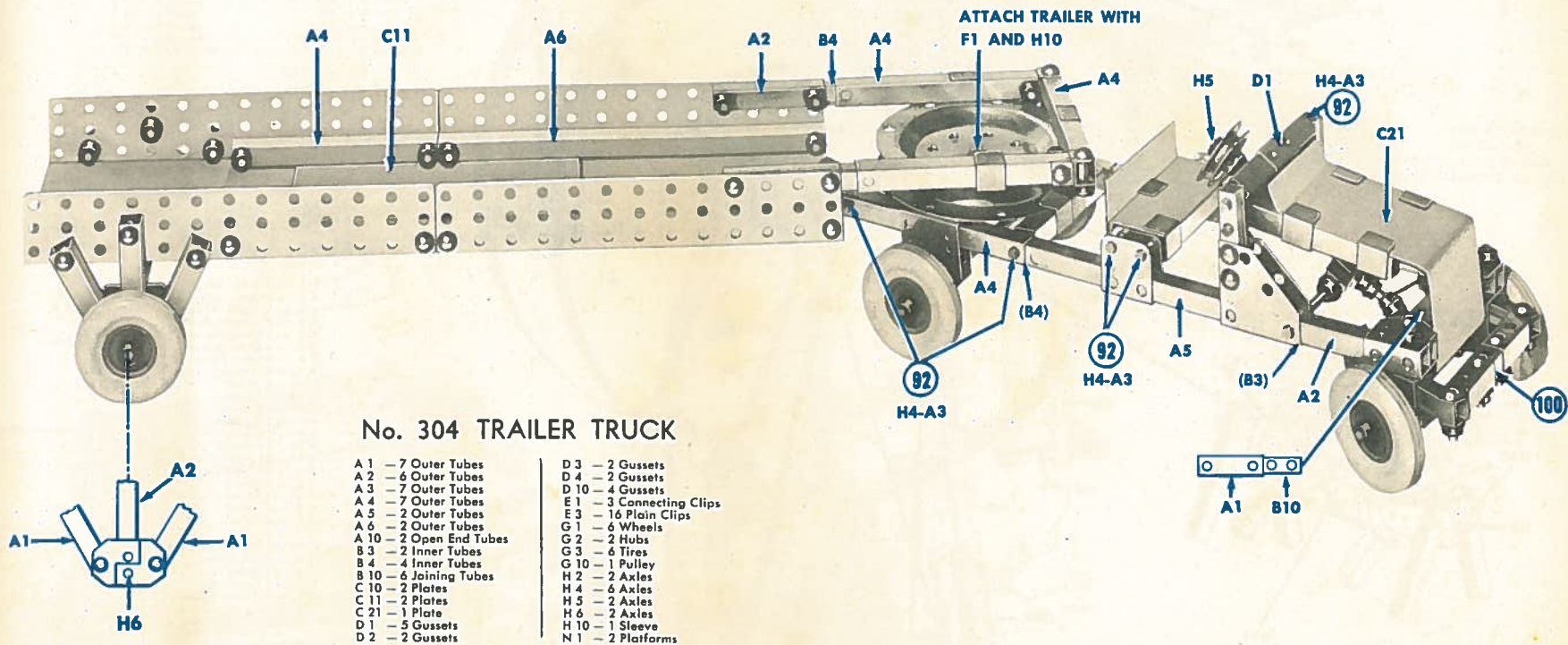
F 1 — 64 Rivets
F 10 — 88 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343




No. 304 TRAILER TRUCK

| | |
|-------------------------|--------------------------|
| A 1 — 7 Outer Tubes | D 3 — 2 Gussets |
| A 2 — 6 Outer Tubes | D 4 — 2 Gussets |
| A 3 — 7 Outer Tubes | D 10 — 4 Gussets |
| A 4 — 7 Outer Tubes | E 1 — 3 Connecting Clips |
| A 5 — 2 Outer Tubes | E 3 — 16 Plain Clips |
| A 6 — 2 Outer Tubes | G 1 — 6 Wheels |
| A 10 — 2 Open End Tubes | G 2 — 2 Hubs |
| B 3 — 2 Inner Tubes | G 3 — 6 Tires |
| B 4 — 4 Inner Tubes | G 10 — 1 Pulley |
| B 10 — 6 Joining Tubes | H 2 — 2 Axles |
| C 10 — 2 Plates | H 4 — 6 Axles |
| C 11 — 2 Plates | H 5 — 2 Axles |
| C 21 — 1 Plate | H 6 — 2 Axles |
| D 1 — 5 Gussets | H 10 — 1 Sleeve |
| D 2 — 2 Gussets | N 1 — 2 Platforms |

TOTAL pcs. 114

F 1 — 38 Rivets
F 10 — 88 Rubber Grommets

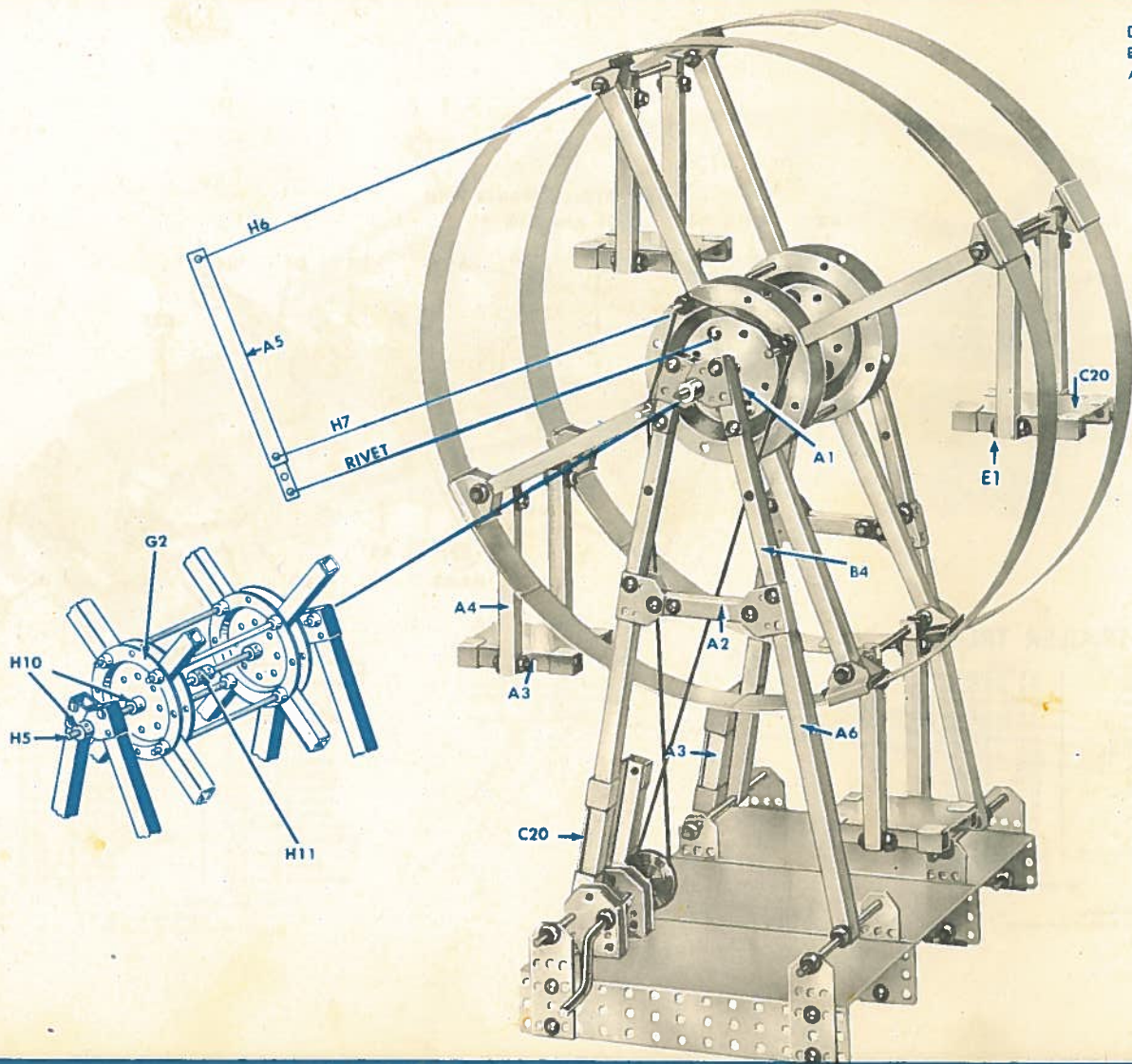
PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343

DIAMETER OF THE WHEEL 9-3/4"
EACH WHEEL CONSISTING OF 2 PLATES C13
AND 2 PLATES C14.



No. 305 FERRIS WHEEL

- A 1 — 4 Outer Tubes
- A 2 — 2 Outer Tubes
- A 3 — 10 Outer Tubes
- A 4 — 8 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 4 Outer Tubes
- B 4 — 4 Inner Tubes
- B 10 — 10 Joining Tubes
- C 13 — 4 Strips
- C 14 — 4 Strips
- C 20 — 4 Plates
- D 1 — 8 Gussets
- D 3 — 2 Gussets
- D 20 — 8 Gussets
- E 1 — 16 Connecting Clips
- E 3 — 24 Plain Clips
- G 2 — 4 Hubs
- G 10 — 1 Pulley
- H 5 — 6 Axles
- H 6 — 4 Axles
- H 7 — 4 Axles
- H 10 — 4 Sleeves
- H 11 — 2 Couplings
- I 3 — 1 Handcrank
- N 1 — 3 Platforms
- N 2 — 8 Platform Fittings

TOTAL pgs. 157

- F 1 — 58 Rivets
- F 10 — 110 Rubber Grammets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

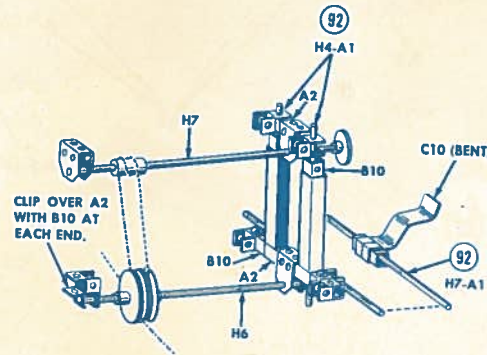
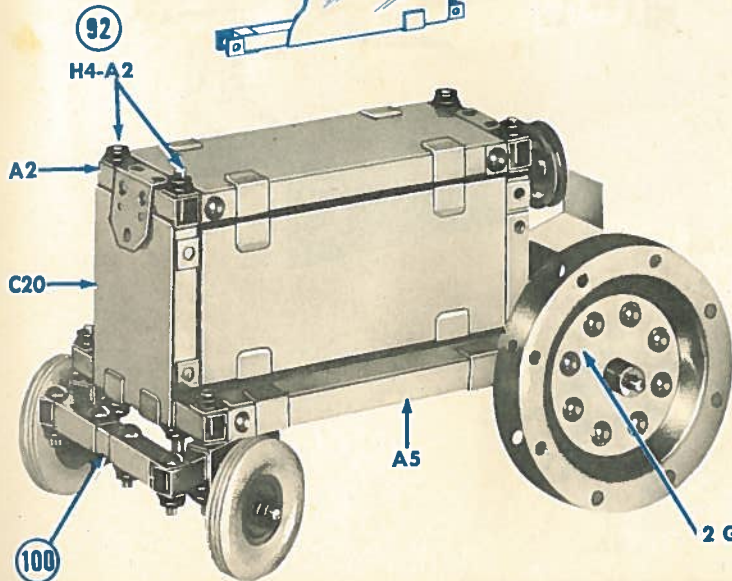
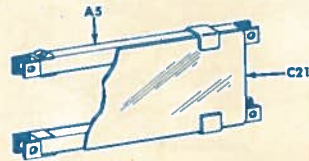
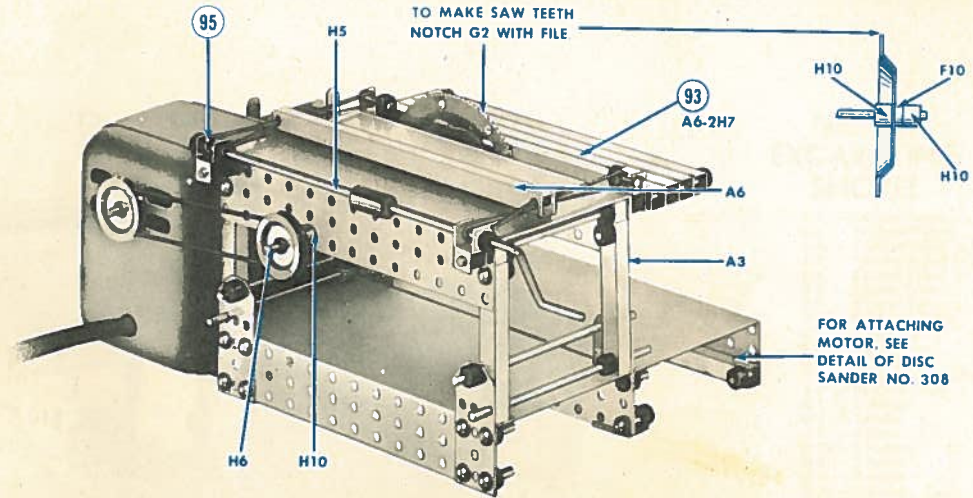
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 306 TRACTOR

- | | |
|---------------------------|----------------------|
| A 1 — 5 Outer Tubes | E 3 — 20 Plain Clips |
| A 2 — 6 Outer Tubes | G 1 — 2 Wheels |
| A 5 — 8 Outer Tubes | G 2 — 4 Hubs |
| A 10 — 2 Open End Tubes | G 3 — 2 Tires |
| B 10 — 7 Joining Tubes | G 10 — 3 Pulleys |
| C 10 — 1 Plate | H 2 — 4 Axles |
| C 11 — 2 Plates | H 4 — 4 Axles |
| C 20 — 1 Plate | H 6 — 1 Axle |
| C 21 — 3 Plates | H 7 — 2 Axles |
| D 1 — 5 Gussets | H 10 — 4 Sleeves |
| E 1 — 20 Connecting Clips | H 11 — 1 Coupling |

TOTAL pcs. 109

- F 1 — 41 Rivets
F 10 — 76 Rubber Grommets



No. 307 CIRCULAR TABLE SAW

- | | |
|--------------------------|---------------------------|
| A 3 — 6 Outer Tubes | H 5 — 5 Axles |
| A 4 — 2 Outer Tubes | H 6 — 3 Axles |
| A 6 — 5 Outer Tubes | H 7 — 2 Axles |
| B 4 — 2 Inner Tubes | H 10 — 3 Sleeves |
| B 10 — 4 Joining Tubes | H 11 — 1 Coupling |
| E 1 — 4 Connecting Clips | I 3 — 1 Handcrank |
| G 2 — 1 Hub | N 1 — 4 Platforms |
| G 10 — 2 Pulleys | N 2 — 4 Platform Fittings |

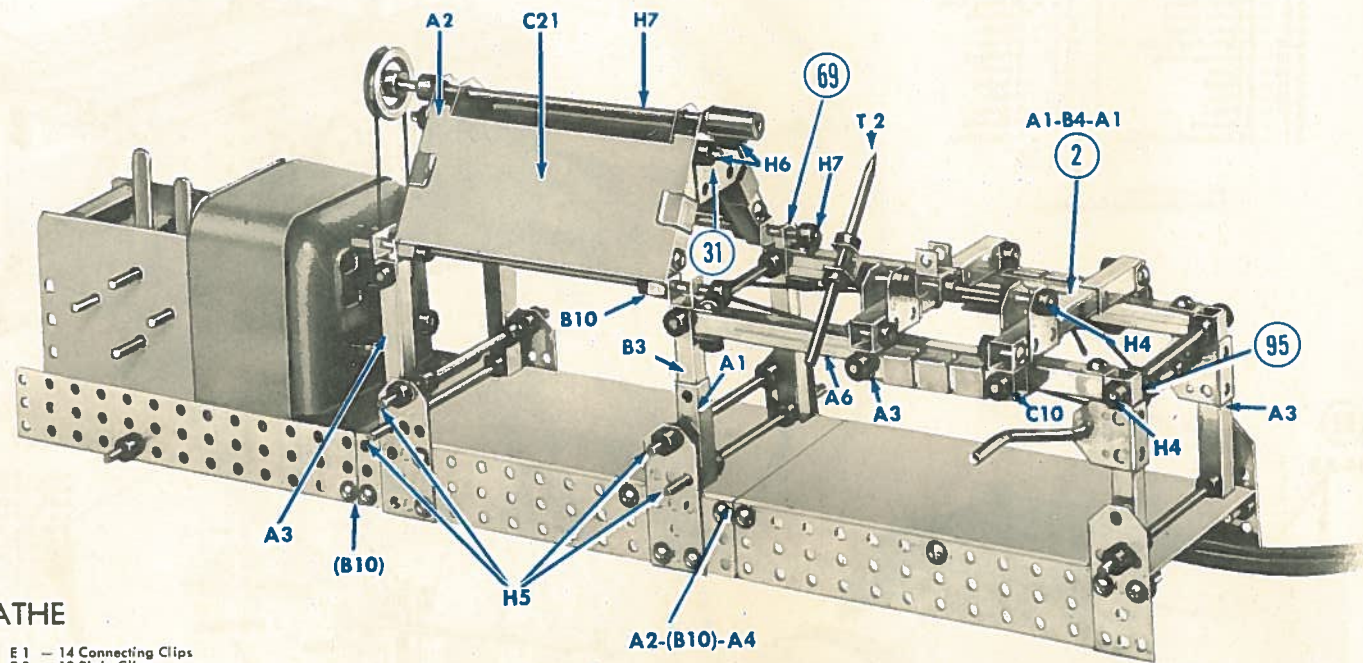
TOTAL Pcs. 49

- F 1 — 22 Rivets
F 10 — 53 Rubber Grommets

PLEASE NOTE — Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.



No. 308 LATHE

| | |
|------------------------|---------------------------|
| A 1 — 6 Outer Tubes | E 1 — 14 Connecting Clips |
| A 2 — 6 Outer Tubes | E 3 — 10 Plain Clips |
| A 3 — 6 Outer Tubes | G 10 — 2 Pulleys |
| A 4 — 2 Outer Tubes | H 4 — 4 Axles |
| A 6 — 2 Outer Tubes | H 5 — 6 Axles |
| B 3 — 2 Inner Tubes | H 6 — 2 Axles |
| B 4 — 2 Inner Tubes | H 7 — 3 Axles |
| B 10 — 8 Joining Tubes | H 10 — 4 Sleeves |
| C 10 — 2 Plates | H 11 — 2 Couplings |
| C 11 — 2 Plates | I 3 — 1 Handcrank |
| C 21 — 2 Plates | N 1 — 3 Platforms |
| D 1 — 4 Gusssets | N 2 — 6 Platform Fittings |
| D 3 — 2 Gusssets | T 2 — 1 Locating Pin |

TOTAL Pcs. 102

F 1 — 70 Rivets
F 10 — 110 Rubber Grammets

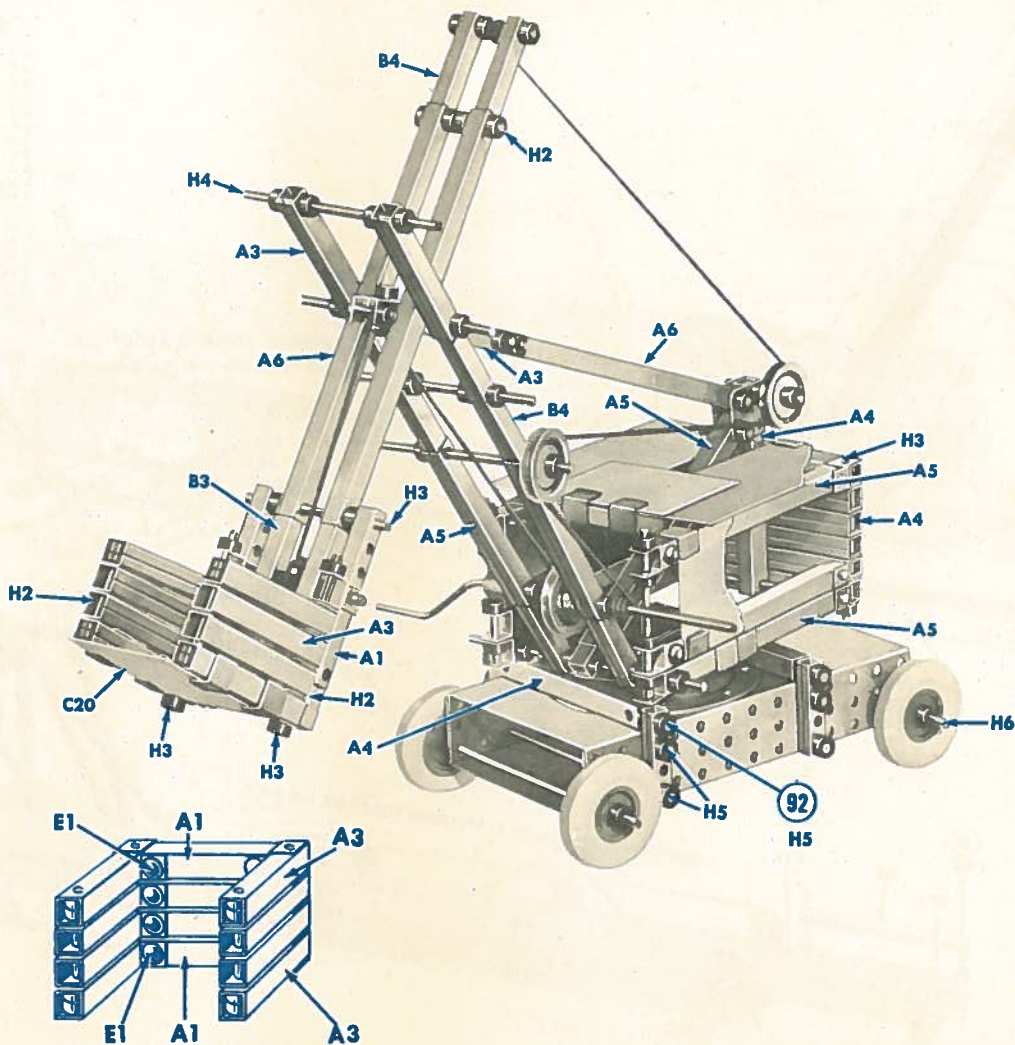
PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS  indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343

No. 309 EXCAVATING SHOVEL



- A 1 — 6 Outer Tubes
- A 3 — 11 Outer Tubes
- A 4 — 8 Outer Tubes
- A 5 — 9 Outer Tubes
- A 6 — 3 Outer Tubes
- B 3 — 3 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 9 Joining Tubes
- C 20 — 2 Plates
- C 21 — 4 Plates
- D 2 — 1 Gusset
- E 1 — 24 Connecting Clips
- E 3 — 22 Plain Clips
- G 1 — 4 Wheels
- G 2 — 2 Hubs
- G 3 — 4 Tires
- G 10 — 3 Pulleys
- H 2 — 5 Axles
- H 3 — 8 Axles
- H 4 — 5 Axles
- H 5 — 7 Axles
- H 6 — 2 Axles
- J 3 — 1 Handcrank
- N 1 — 2 Platforms

TOTAL pcs. 152
 F 1 — 77 Rivets
 F 10 — 113 Rubber Grammets

FRONT VIEW OF THE SHOVEL

PLEASE NOTE —

Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

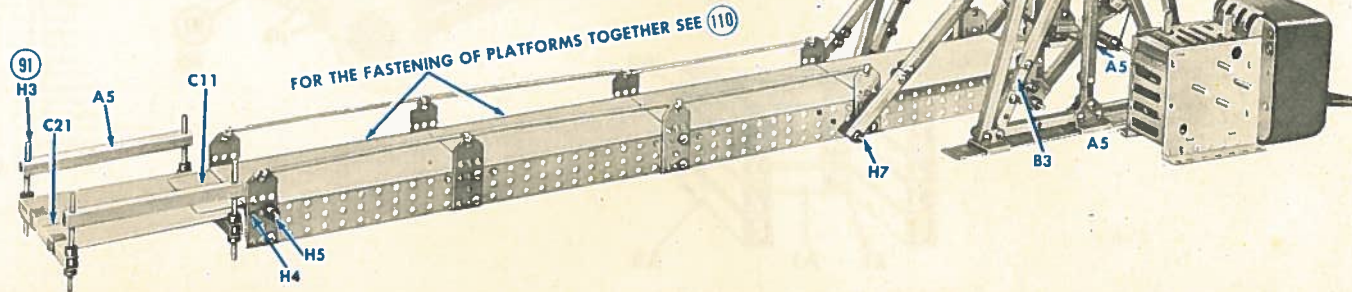
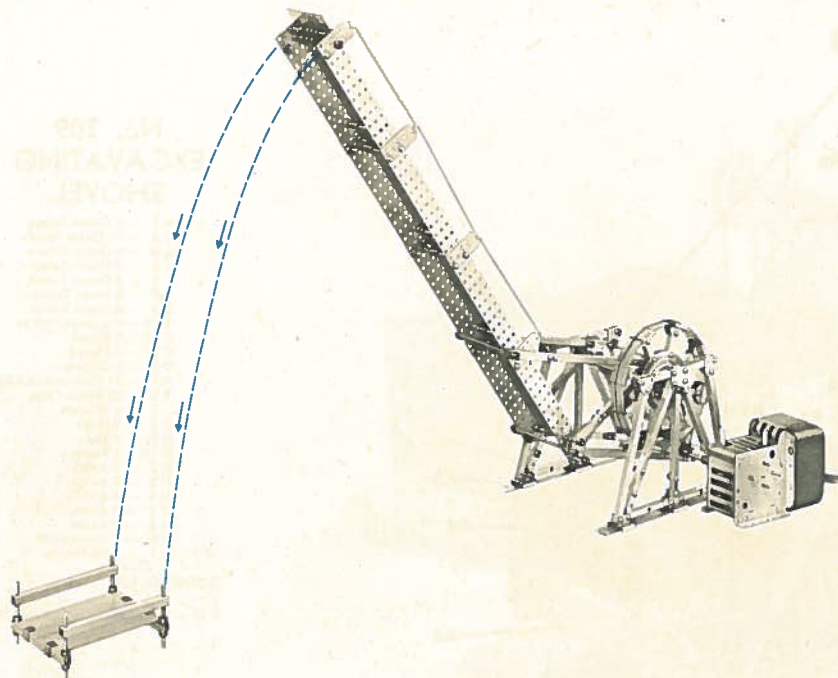
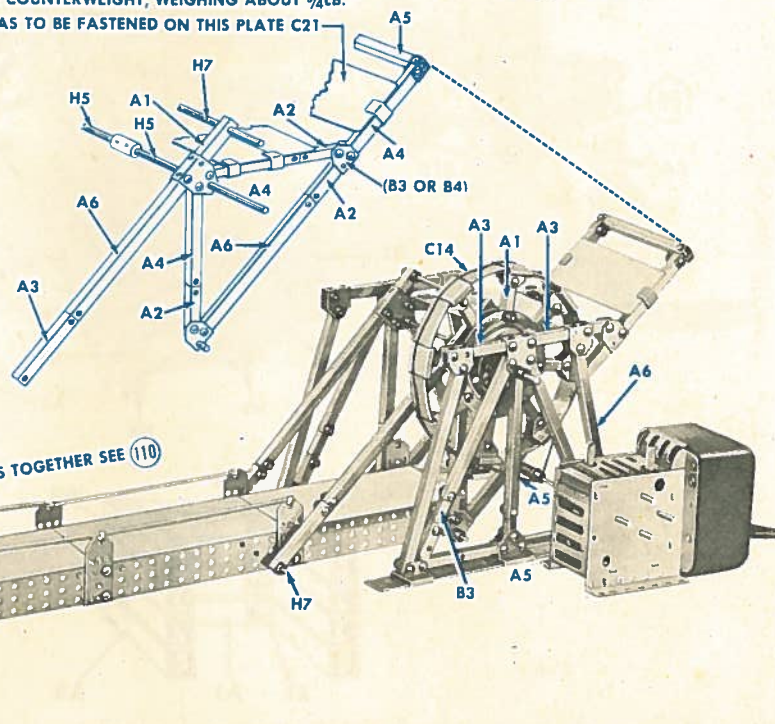
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343

No. 310 BASCULE BRIDGE

- | | |
|-------------------------|---------------------------|
| A 1 — 10 Outer Tubes | D 3 — 4 Gussets |
| A 2 — 6 Outer Tubes | D 20 — 8 Gussets |
| A 3 — 6 Outer Tubes | D 21 — 4 Gussets |
| A 4 — 6 Outer Tubes | D 22 — 2 Gussets |
| A 5 — 11 Outer Tubes | E 1 — 2 Connecting Clips |
| A 6 — 8 Outer Tubes | E 3 — 10 Plain Clips |
| A 10 — 4 Open End Tubes | G 2 — 2 Hubs |
| B 3 — 4 Inner Tubes | H 2 — 8 Axles |
| B 4 — 4 Inner Tubes | H 3 — 5 Axles |
| B 10 — 24 Joining Tubes | H 4 — 7 Axles |
| C 10 — 4 Plates | H 5 — 5 Axles |
| C 11 — 7 Plates | H 6 — 1 Axle |
| C 13 — 4 Strips | H 7 — 1 Axle |
| C 14 — 2 Strips | H 11 — 2 Couplings |
| C 21 — 6 Plates | N 1 — 4 Platforms |
| D 1 — 8 Gussets | N 2 — 8 Platform Fittings |

ABCDEGHN
 TOTAL pcs. 189
 F 1 — 106 Rivets
 F 10 — 150 Grommets

A COUNTERWEIGHT, WEIGHING ABOUT 3/4 LB.
 HAS TO BE FASTENED ON THIS PLATE C21

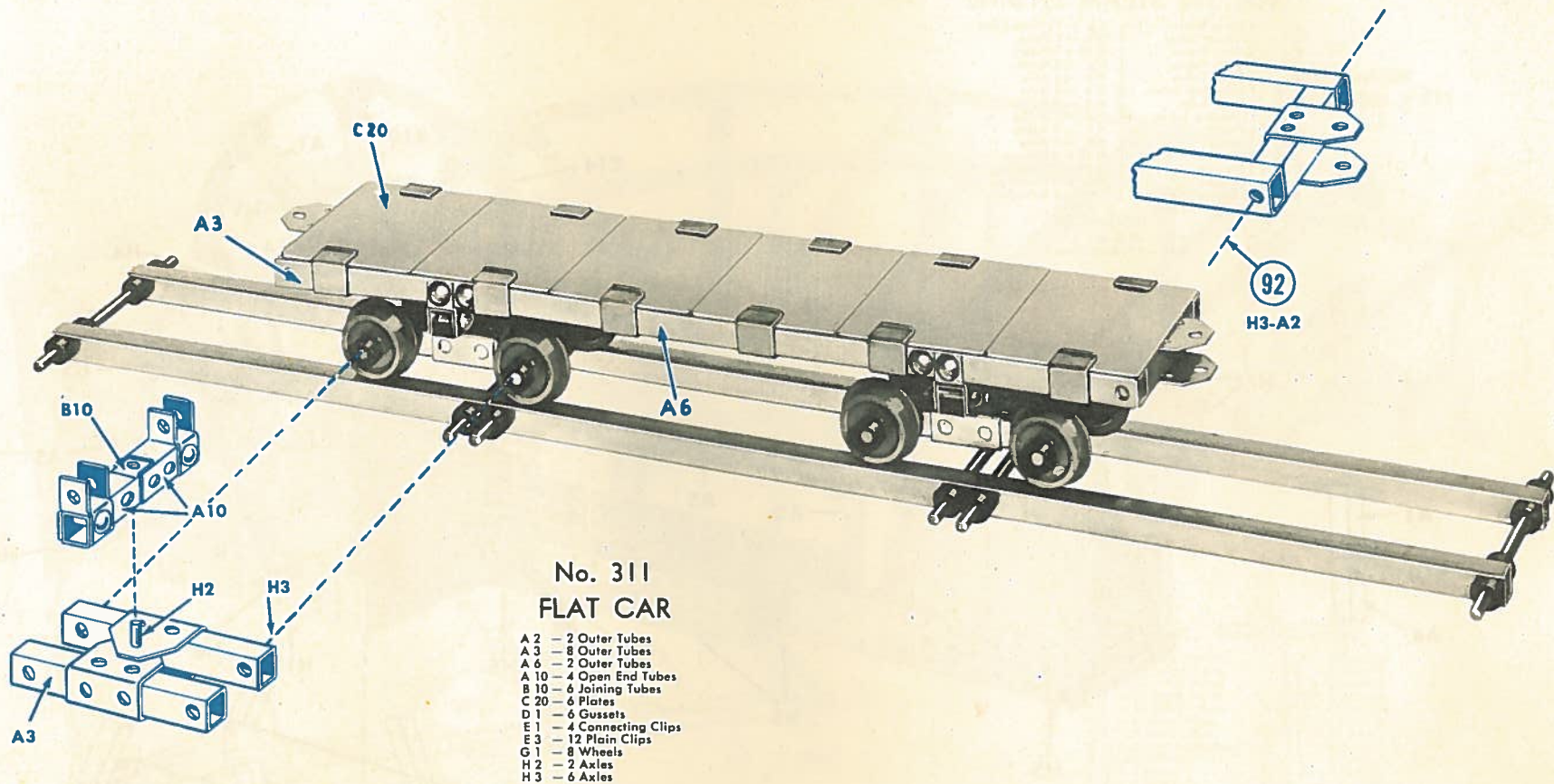


PLEASE NOTE —

Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.




No. 311 FLAT CAR

- A 2 - 2 Outer Tubes
- A 3 - 8 Outer Tubes
- A 6 - 2 Outer Tubes
- A 10 - 4 Open End Tubes
- B 10 - 6 Joining Tubes
- C 20 - 6 Plates
- D 1 - 6 Gussets
- E 1 - 4 Connecting Clips
- E 3 - 12 Plain Clips
- G 1 - 8 Wheels
- H 2 - 2 Axles
- H 3 - 6 Axles

TOTAL pcs. 66

- F 1 - 8 Rivets
- F 10 - 32 Rubber Grammets

PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

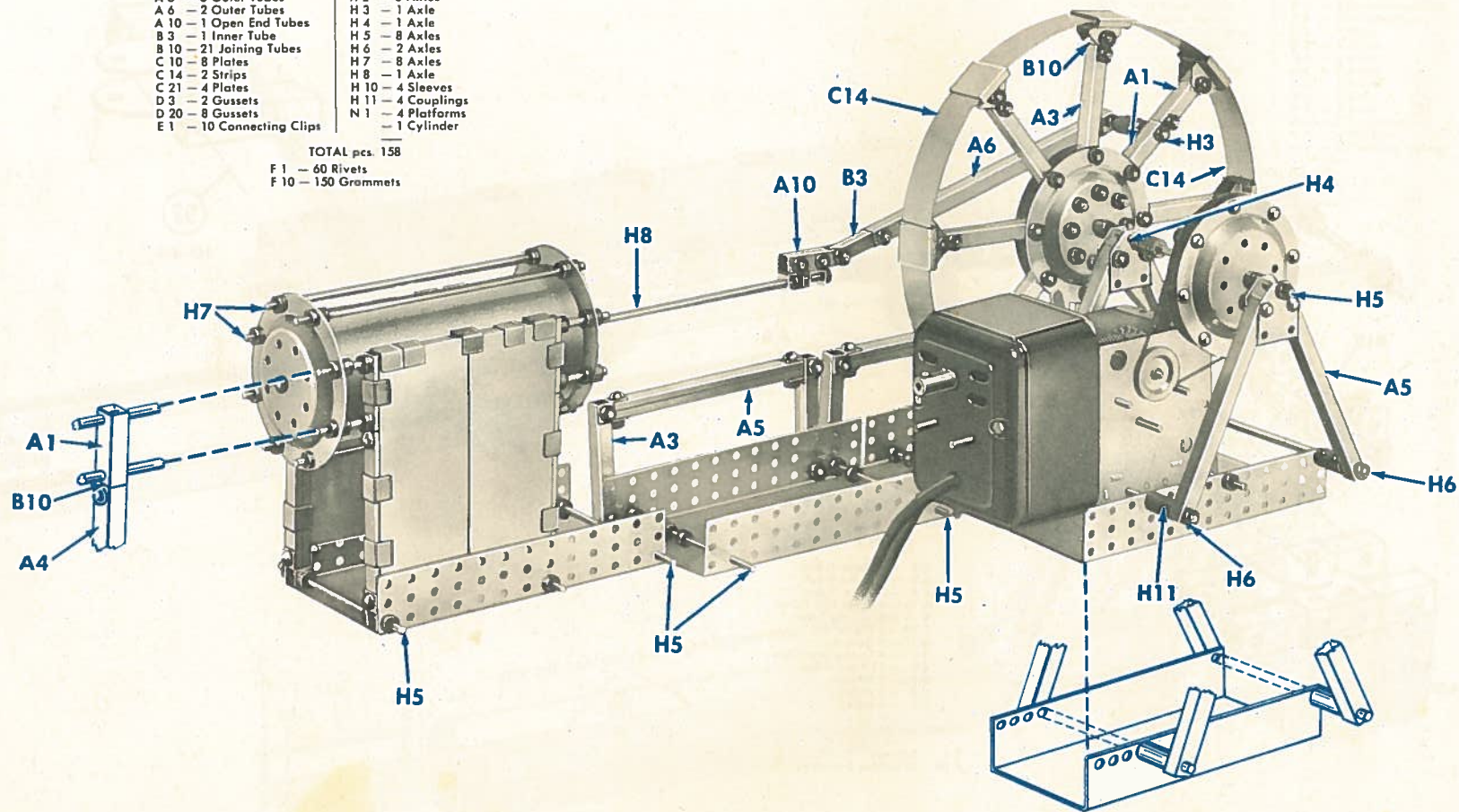
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 343

No. 312 STEAM ENGINE

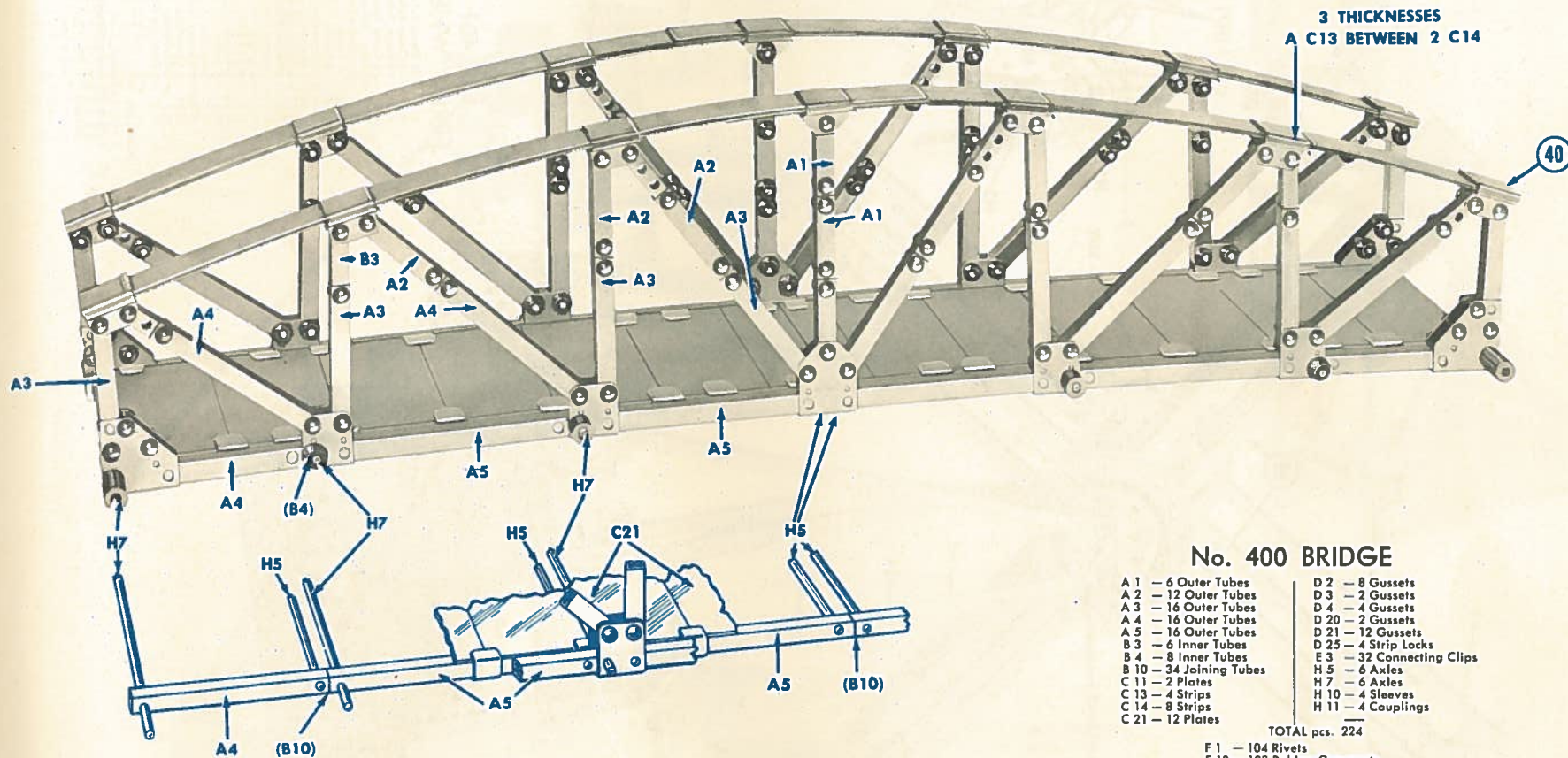
| | |
|---------------------------|----------------------|
| A 1 — 6 Outer Tubes | E 3 — 22 Plain Clips |
| A 3 — 11 Outer Tubes | G 2 — 6 Hubs |
| A 4 — 6 Outer Tubes | G 10 — 1 Pulley |
| A 5 — 5 Outer Tubes | H 2 — 8 Axles |
| A 6 — 2 Outer Tubes | H 3 — 1 Axle |
| A 10 — 1 Open End Tubes | H 4 — 1 Axle |
| B 3 — 1 Inner Tube | H 5 — 8 Axles |
| B 10 — 21 Joining Tubes | H 6 — 2 Axles |
| C 10 — 8 Plates | H 7 — 8 Axles |
| C 14 — 2 Strips | H 8 — 1 Axle |
| C 21 — 4 Plates | H 10 — 4 Sleeves |
| D 3 — 2 Gussets | H 11 — 4 Couplings |
| D 20 — 8 Gussets | N 1 — 1 Cylinder |
| E 1 — 10 Connecting Clips | |

TOTAL pcs. 158
 F 1 — 60 Rivets
 F 10 — 150 Grammets



PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454



No. 400 BRIDGE

| | |
|-------------------------|---------------------------|
| A 1 — 6 Outer Tubes | D 2 — 8 Gussets |
| A 2 — 12 Outer Tubes | D 3 — 2 Gussets |
| A 3 — 16 Outer Tubes | D 4 — 4 Gussets |
| A 4 — 16 Outer Tubes | D 20 — 2 Gussets |
| A 5 — 16 Outer Tubes | D 21 — 12 Gussets |
| B 3 — 6 Inner Tubes | D 25 — 4 Strip Locks |
| B 4 — 8 Inner Tubes | E 3 — 32 Connecting Clips |
| B 10 — 34 Joining Tubes | H 5 — 6 Axles |
| C 11 — 2 Plates | H 7 — 6 Axles |
| C 13 — 4 Strips | H 10 — 4 Sleeves |
| C 14 — 8 Strips | H 11 — 4 Couplings |
| C 21 — 12 Plates | |

TOTAL pcs. 224

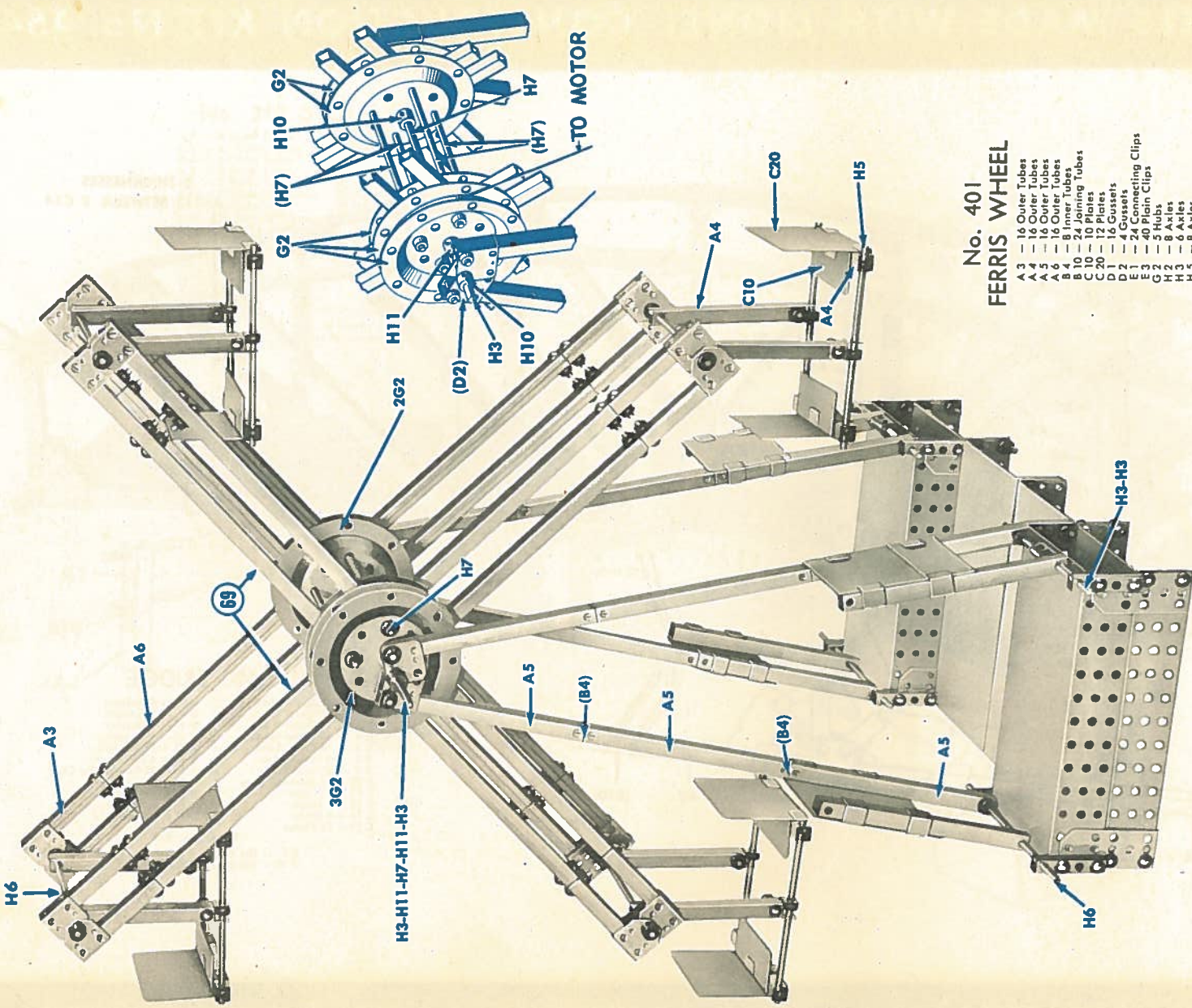
F 1 — 104 Rivets
F 10 — 108 Rubber Grommets

PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.



No. 401 FERRIS WHEEL

| | |
|------|-----------------------|
| A 3 | — 16 Outer Tubes |
| A 4 | — 16 Outer Tubes |
| A 5 | — 16 Outer Tubes |
| A 6 | — 16 Outer Tubes |
| B 4 | — 8 Inner Tubes |
| B 5 | — 24 Joining Tubes |
| C 10 | — 12 Plates |
| C 20 | — 16 Gussets |
| D 1 | — 4 Gussets |
| D 2 | — 24 Connecting Clips |
| E 1 | — 40 Plain Clips |
| E 3 | — 5 Hubs |
| G 2 | — 6 Axles |
| H 2 | — 8 Axles |
| H 3 | — 6 Axles |
| H 5 | — 4 Sleeves |
| H 6 | — 6 Axles |
| H 7 | — 5 Axles |
| H 10 | — 4 Sleeves |
| H 11 | — 4 Couplings |
| N 1 | — 6 Perform Fittings |
| N 2 | — 8 Perform Fittings |

TOTAL parts, 262

F 1 — 94 Rivets

F 10 — 154 Rubber Grommets

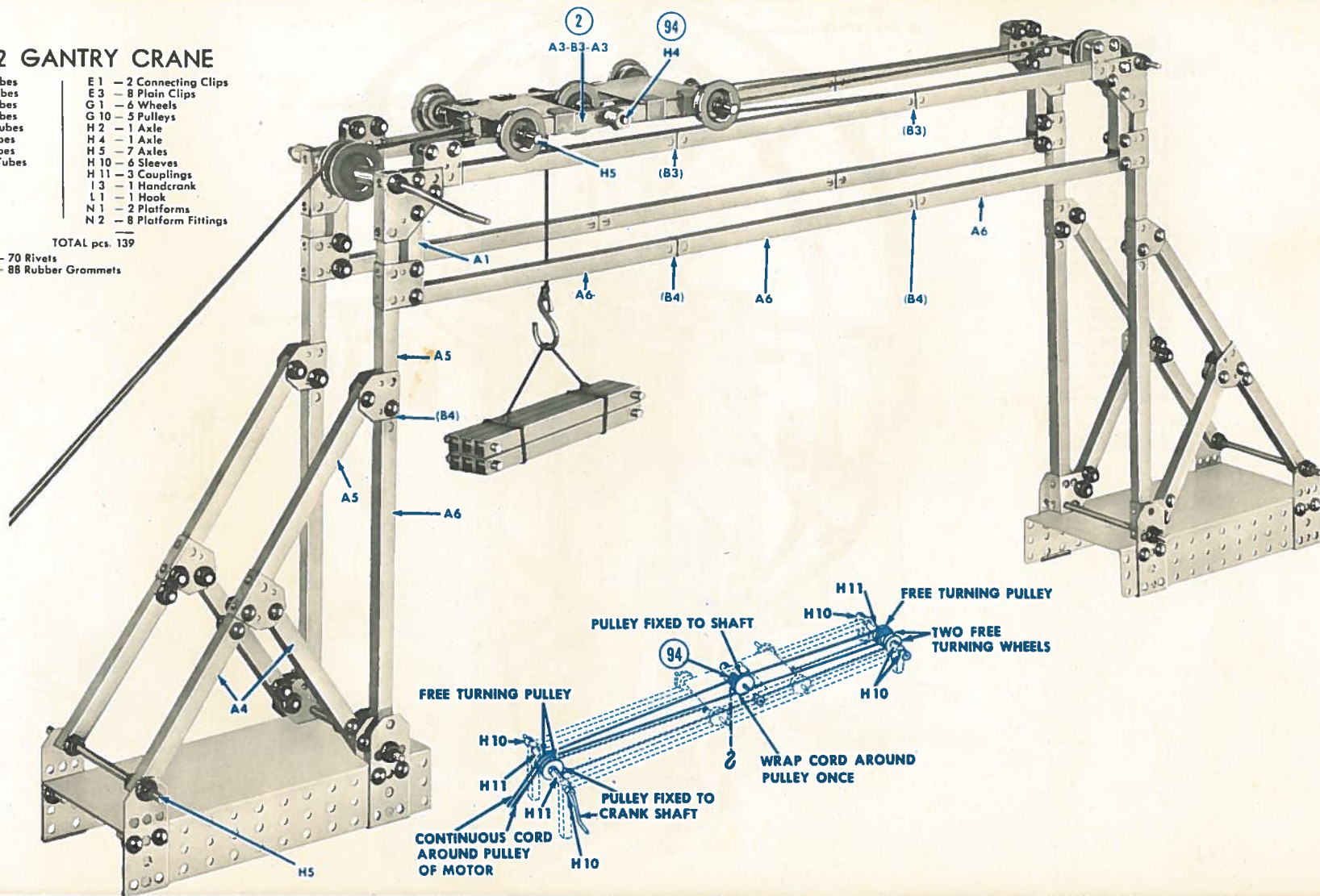
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

No. 402 GANTRY CRANE

- | | |
|------------------------|---------------------------|
| A 1 — 4 Outer Tubes | E 1 — 2 Connecting Clips |
| A 3 — 4 Outer Tubes | E 3 — 8 Plain Clips |
| A 4 — 8 Outer Tubes | G 1 — 6 Wheels |
| A 5 — 8 Outer Tubes | G 10 — 5 Pulleys |
| A 6 — 16 Outer Tubes | H 2 — 1 Axle |
| B 3 — 6 Inner Tubes | H 4 — 1 Axle |
| B 4 — 8 Inner Tubes | H 5 — 7 Axles |
| B 10 — 8 Joining Tubes | H 10 — 6 Sleeves |
| D 1 — 12 Gussets | H 11 — 3 Couplings |
| D 2 — 4 Gussets | I 3 — 1 Handcrank |
| D 4 — 4 Gussets | L 1 — 1 Hook |
| D 11 — 4 Gussets | N 1 — 2 Platforms |
| C 20 — 2 Plates | N 2 — 8 Platform Fittings |

TOTAL pcs. 139

- F 1 — 70 Rivets
F 10 — 88 Rubber Grommets



PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

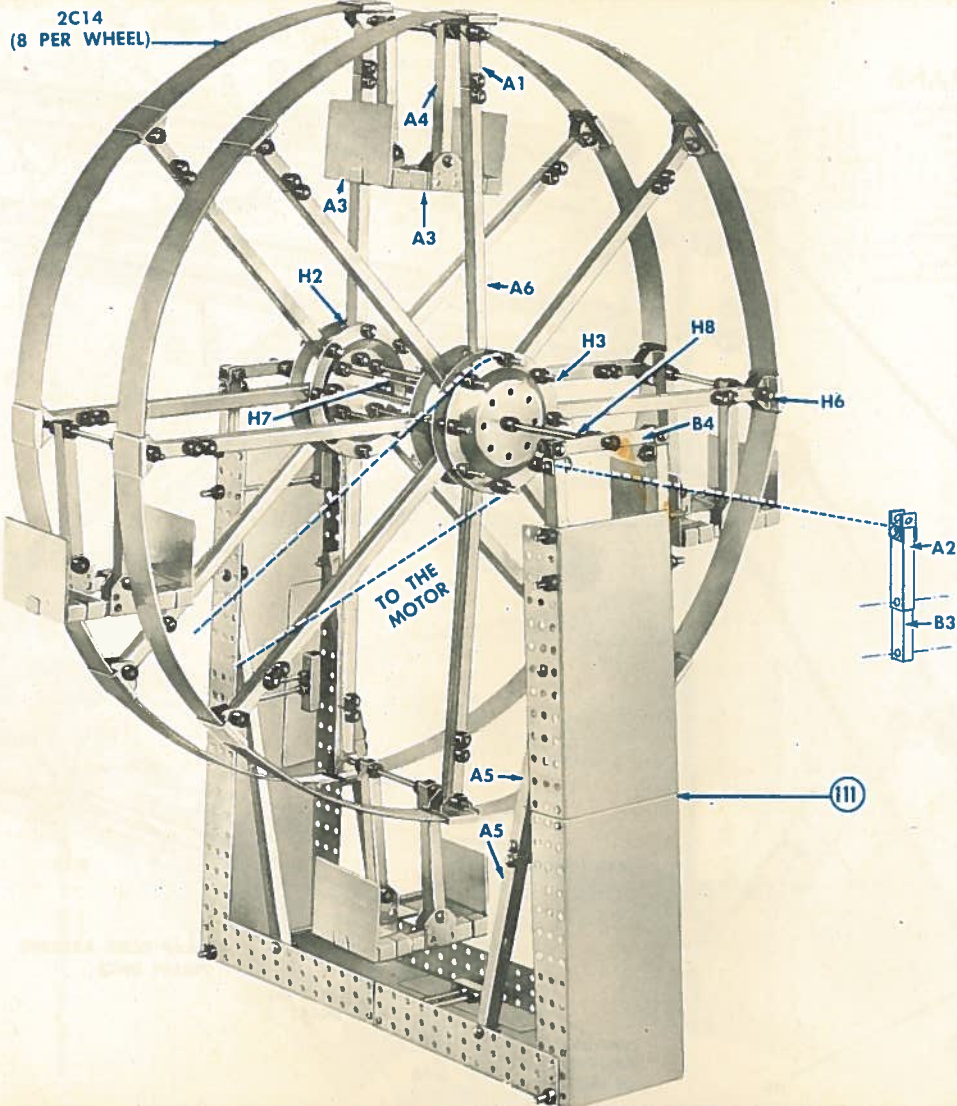
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 403 FERRIS WHEEL

- A 1 — 16 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 16 Outer Tubes
- A 4 — 8 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 16 Outer Tubes
- B 3 — 4 Inner Tubes
- B 4 — 2 Inner Tubes
- B 10 — 42 Joining Tubes
- C 10 — 8 Plates
- C 11 — 6 Plates
- C 14 — 16 Strips
- C 20 — 8 Plates
- D 1 — 8 Gussets
- D 20 — 16 Gussets
- E 1 — 4 Connecting Clips
- E 3 — 40 Plain Clips
- G 2 — 6 Hubs
- G 10 — 1 Pulley
- H 2 — 8 Axles
- H 3 — 8 Axles
- H 4 — 6 Axles
- H 5 — 6 Axles
- H 6 — 4 Axles
- H 7 — 4 Axles
- H 8 — 1 Axle
- H 10 — 2 Sleeves
- N 1 — 6 Platforms

TOTAL pcs. 274

- F 1 — 80 Rivets
- F 10 — 120 Grammets

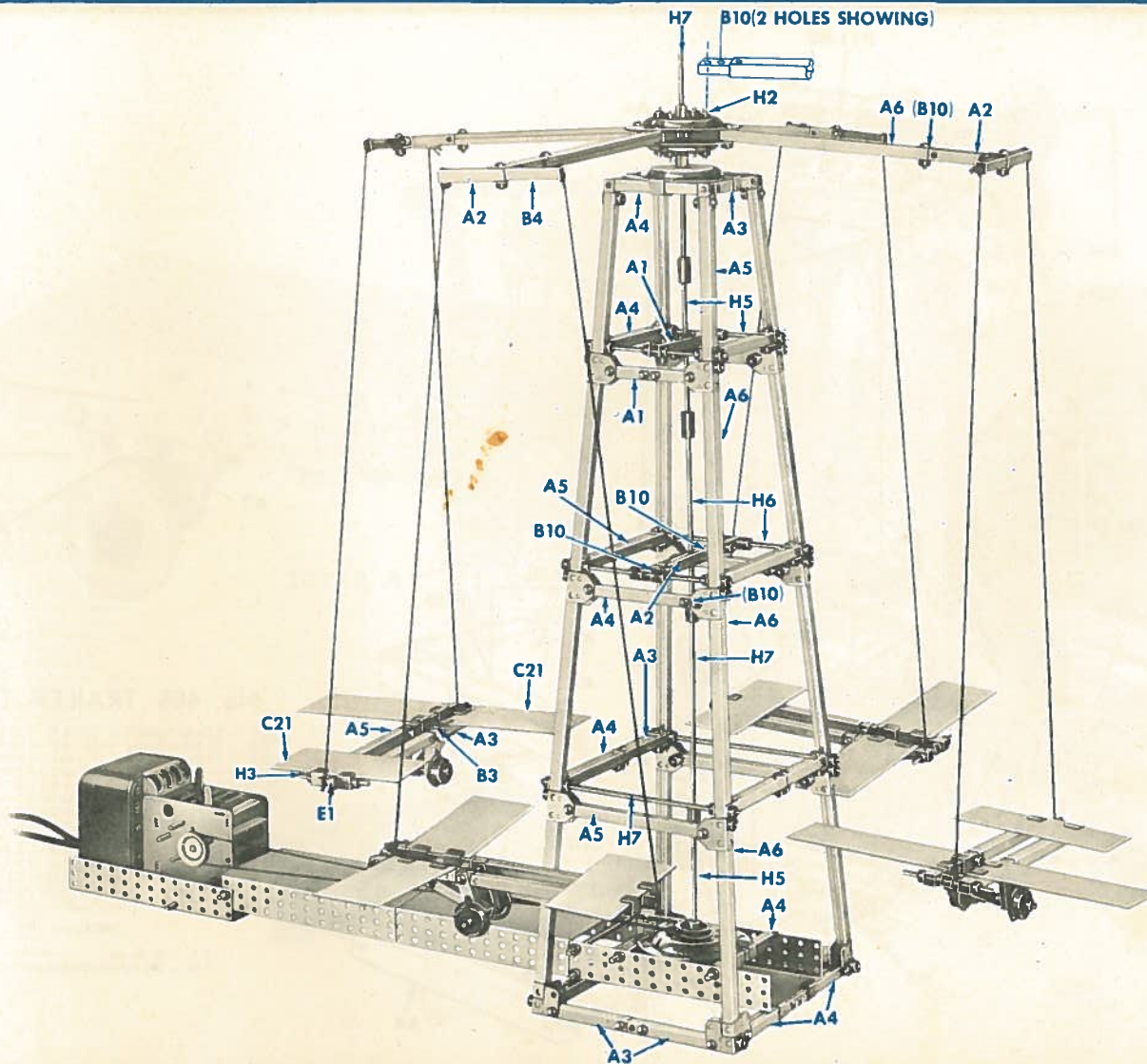


PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 404 AIR PLANE RIDE



- A 1 — 8 Outer Tubes
- A 2 — 12 Outer Tubes
- A 3 — 16 Outer Tubes
- A 4 — 14 Outer Tubes
- A 5 — 16 Outer Tubes
- A 6 — 16 Outer Tubes
- A 10 — 8 Open End Tubes
- B 3 — 8 Inner Tubes
- B 4 — 8 Inner Tubes
- B 10 — 36 Joining Tubes
- C 10 — 4 Plates
- C 21 — 12 Plates
- D 1 — 12 Gussets
- D 11 — 8 Gussets
- E 1 — 26 Connecting Clips
- E 3 — 40 Plain Clips
- G 1 — 8 Wheels
- G 2 — 4 Hubs
- G 10 — 2 Pulleys
- H 2 — 8 Axles
- H 3 — 8 Axles
- H 4 — 2 Axles
- H 5 — 8 Axles
- H 6 — 3 Axles
- H 7 — 4 Axles
- H 10 — 6 Sleeves
- H 11 — 4 Couplings
- N 1 — 4 Platforms

TOTAL pcs. 305
 F 1 — 100 Rivets
 F 10 — 159 Grammets

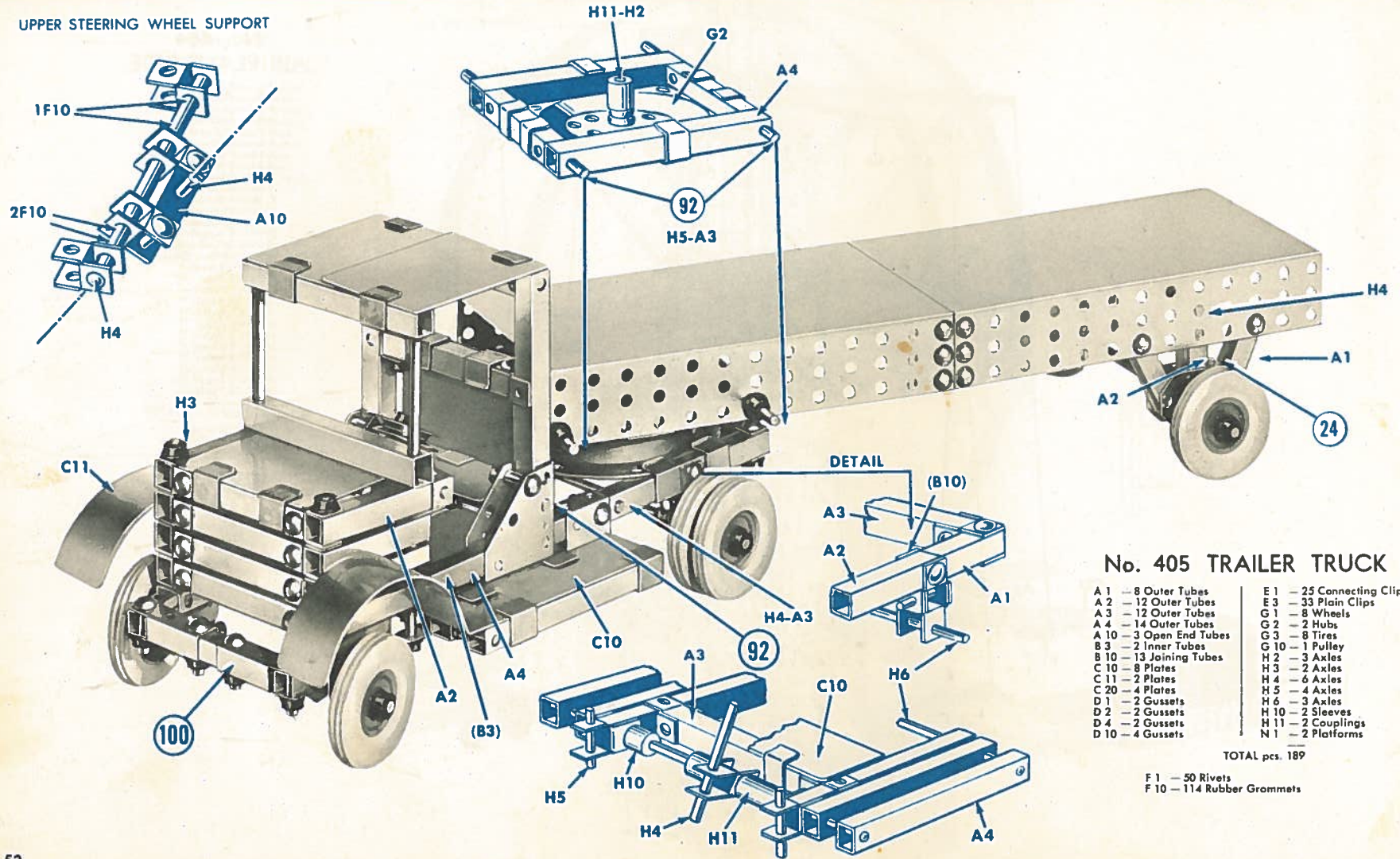
PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

UPPER STEERING WHEEL SUPPORT



No. 405 TRAILER TRUCK

| | |
|-------------------------|---------------------------|
| A 1 — 8 Outer Tubes | E 1 — 25 Connecting Clips |
| A 2 — 12 Outer Tubes | E 3 — 33 Plain Clips |
| A 3 — 12 Outer Tubes | G 1 — 8 Wheels |
| A 4 — 14 Outer Tubes | G 2 — 8 Hubs |
| A 10 — 3 Open End Tubes | G 3 — 8 Tires |
| B 3 — 2 Inner Tubes | G 10 — 1 Pulley |
| B 10 — 13 Joining Tubes | H 2 — 3 Axles |
| C 10 — 8 Plates | H 3 — 2 Axles |
| C 11 — 2 Plates | H 4 — 6 Axles |
| C 20 — 4 Plates | H 5 — 4 Axles |
| D 1 — 2 Gussets | H 6 — 3 Axles |
| D 2 — 2 Gussets | H 10 — 2 Sleeves |
| D 4 — 2 Gussets | H 11 — 2 Couplings |
| D 10 — 4 Gussets | N 1 — 2 Platforms |

TOTAL pcs. 189

F 1 — 50 Rivets
F 10 — 114 Rubber Grommets

PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

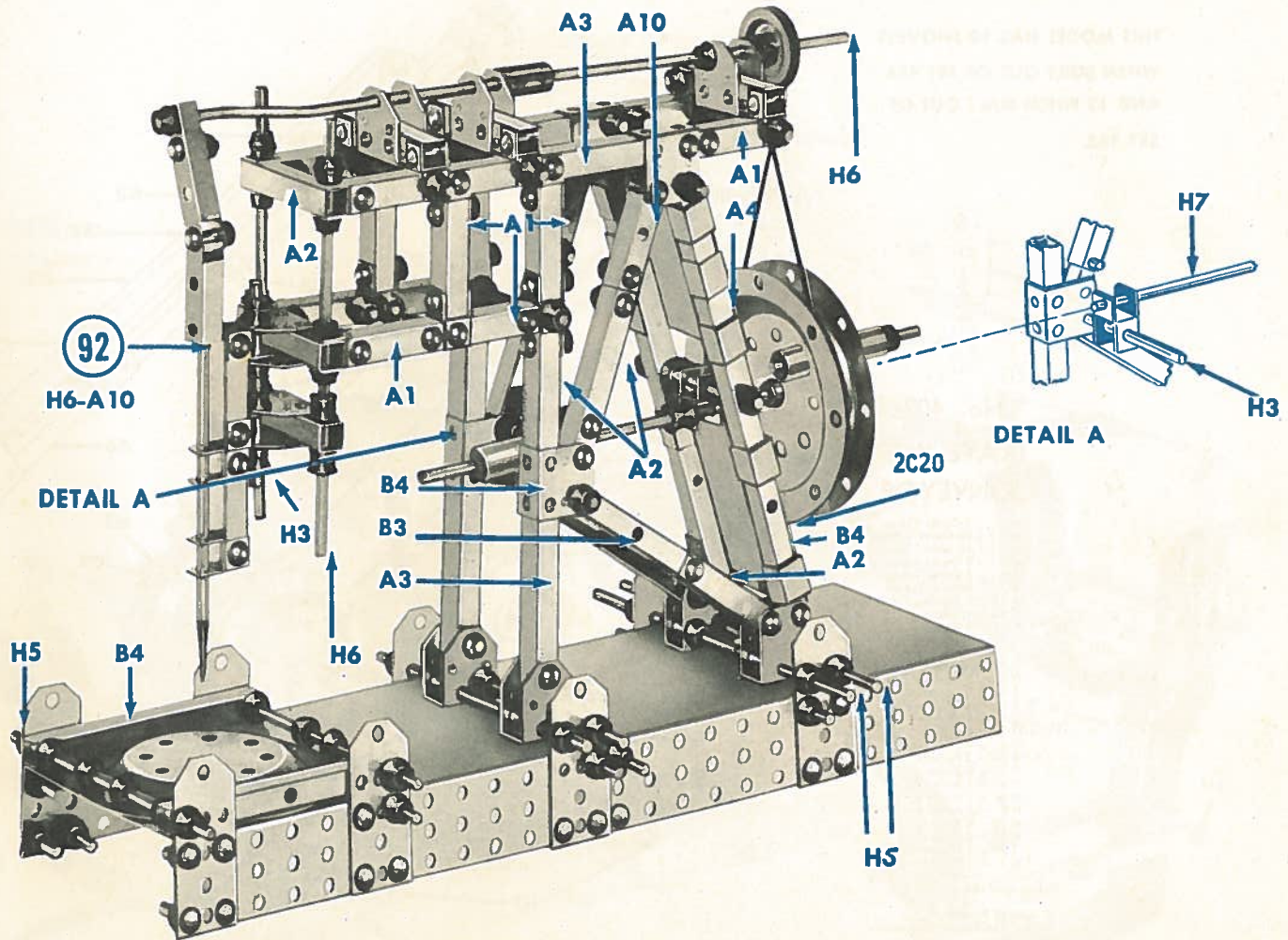
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

No. 406 SEWING MACHINE

- A 1 — 16 Outer Tubes
- A 2 — 12 Outer Tubes
- A 3 — 4 Outer Tubes
- A 4 — 6 Outer Tubes
- A 10 — 3 Open End Tubes
- B 3 — 2 Inner Tubes
- B 4 — 6 Inner Tubes
- B 10 — 21 Joining Tubes
- C 20 — 3 Plates
- D 1 — 7 Gussets
- D 2 — 6 Gussets
- E 1 — 26 Connecting Clips
- E 3 — 10 Plain Clips
- G 2 — 3 Hubs
- G 10 — 1 Pulley
- H 2 — 1 Axle
- H 3 — 8 Axles
- H 5 — 8 Axles
- H 6 — 6 Axles
- H 7 — 1 Axle
- H 10 — 6 Sleeves
- H 11 — 3 Couplings
- I 3 — 1 Handcrank
- N 1 — 2 Platforms
- N 2 — 8 Platform Fittings

TOTAL pcs. 170

- F 1 — 90 Rivets
- F 10 — 140 Rubber Grommets



PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

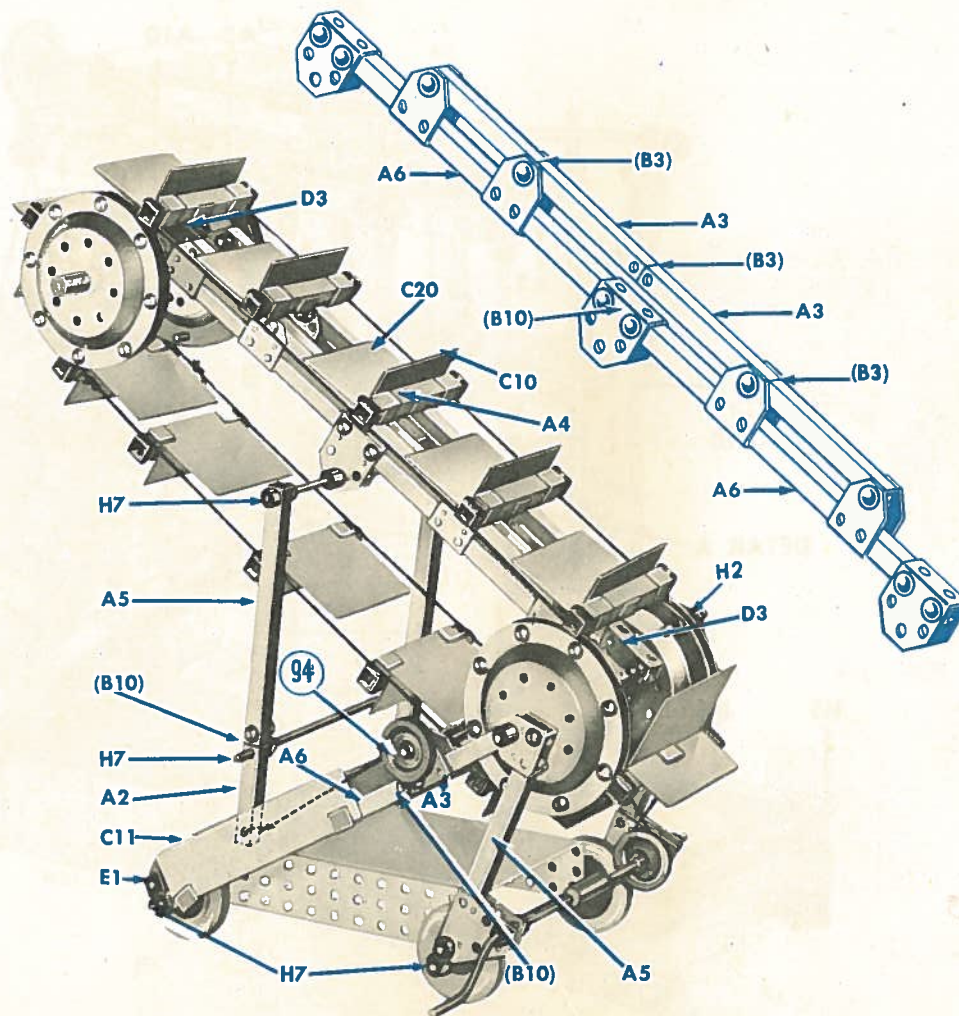
THIS MODEL HAS 10 SHOVELS
WHEN BUILT OUT OF SET 454
AND 12 WHEN BUILT OUT OF
SET 565

No. 407 TRAVELING CONVEYOR

- A 2 - 2 Outer Tubes
- A 3 - 10 Outer Tubes
- A 4 - 12 Outer Tubes
- A 5 - 4 Outer Tubes
- A 6 - 4 Outer Tubes
- B 3 - 6 Inner Tubes
- B 10 - 8 Joining Tubes
- C 10 - 12 Plates
- C 11 - 2 Plates
- C 20 - 12 Plates
- D 1 - 12 Gussets
- D 3 - 6 Gussets
- D 4 - 2 Gussets
- E 1 - 2 Connecting Clips
- E 3 - 40 Plain Clips
- G 1 - 4 Wheels
- G 2 - 8 Hubs
- G 3 - 4 Tires
- G 10 - 2 Pulleys
- H 2 - 8 Axles
- H 4 - 1 Axle
- H 6 - 1 Axle
- H 7 - 6 Axles
- H 10 - 8 Sleeves
- H 11 - 3 Couplings
- I 3 - 1 Handcrank
- N 1 - 1 Platform

TOTAL pcs. 183

- F 1 - 58 Rivets
- F 10 - 154 Rubber Grammets



PLEASE NOTE — Number in CIRCLE refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

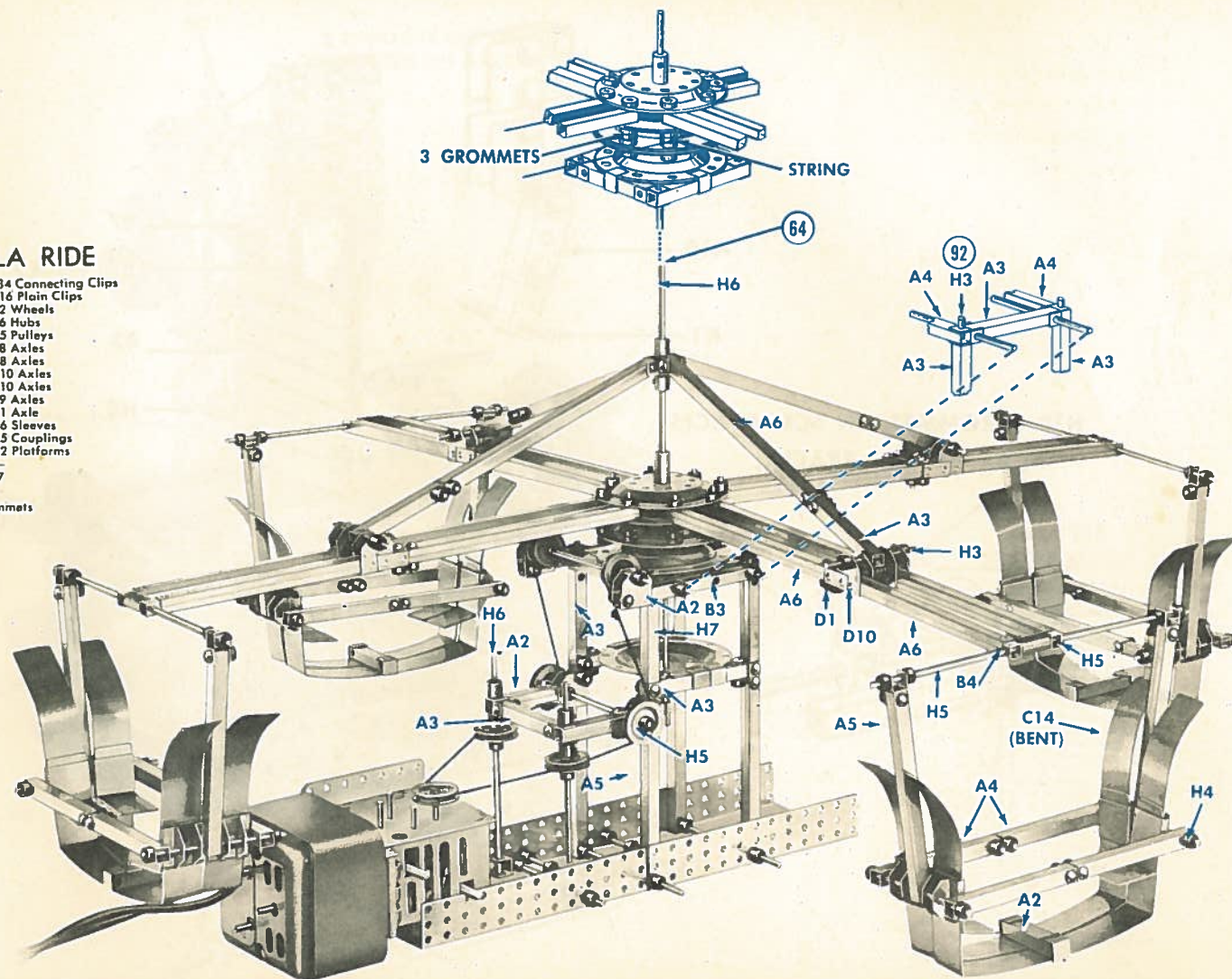
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

No. 408 GONDOLA RIDE

| | |
|-------------------------|---------------------------|
| A 2 - 8 Outer Tubes | E 1 - 34 Connecting Clips |
| A 3 - 13 Outer Tubes | E 8 - 16 Plain Clips |
| A 4 - 14 Outer Tubes | G 1 - 2 Wheels |
| A 5 - 14 Outer Tubes | G 2 - 6 Hubs |
| A 6 - 20 Outer Tubes | G 10 - 5 Pulleys |
| B 3 - 6 Inner Tubes | H 2 - 8 Axles |
| B 4 - 8 Inner Tubes | H 3 - 8 Axles |
| B 10 - 22 Joining Tubes | H 4 - 10 Axles |
| C 10 - 8 Plates | H 5 - 10 Axles |
| C 11 - 8 Plates | H 6 - 9 Axles |
| C 14 - 8 Strips | H 7 - 1 Axle |
| D 1 - 12 Gussets | H 10 - 6 Sleeves |
| D 10 - 8 Gussets | H 11 - 5 Couplings |
| D 20 - 16 Gussets | N 1 - 2 Platforms |

TOTAL pcs 287

F 1 - 90 Rivets
F 10 - 198 Rubber Grommets



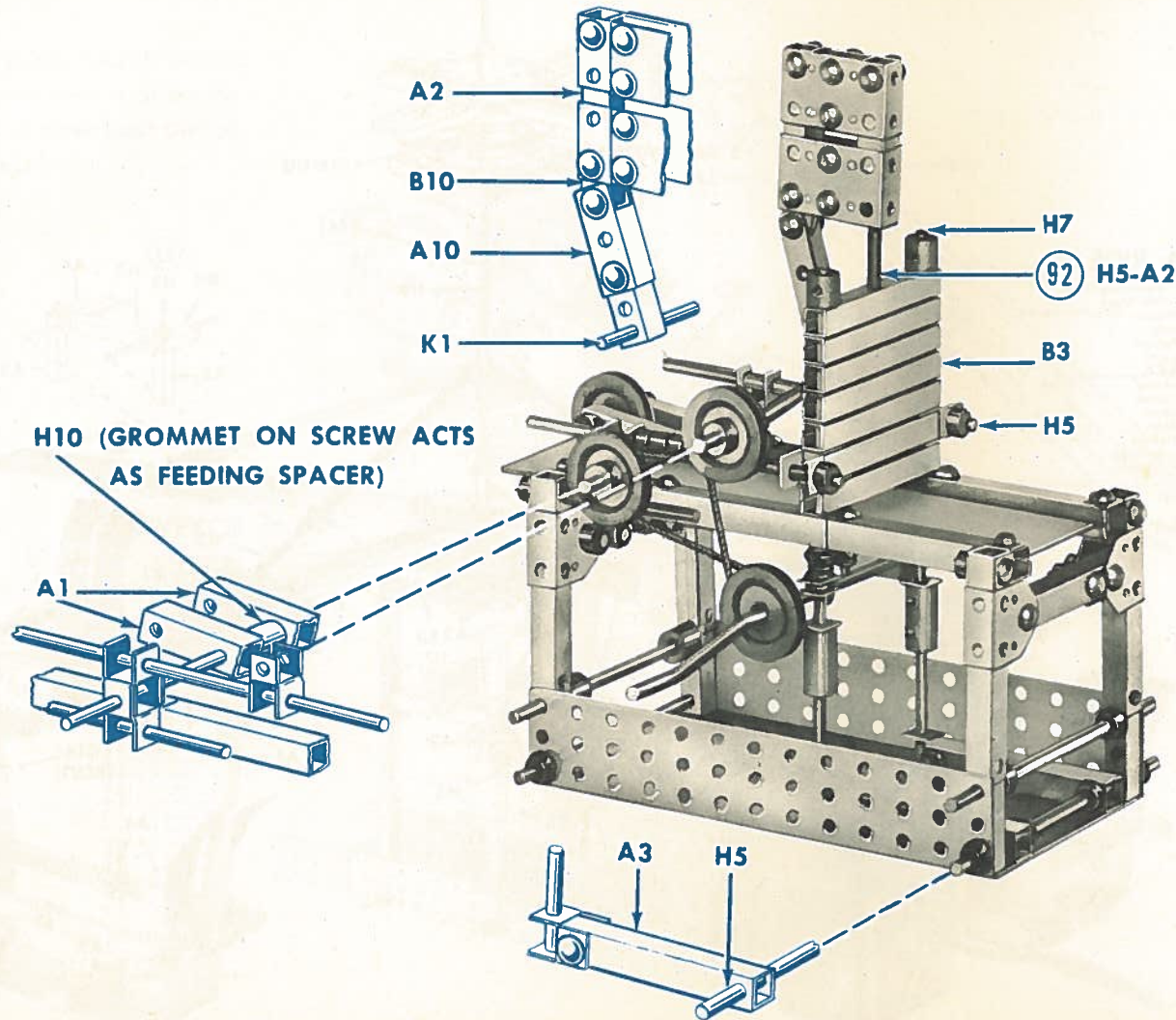
PLEASE NOTE —

Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454



No. 409 AUTOMATIC PUNCH

- A 1 — 4 Outer Tubes
- A 2 — 4 Outer Tubes
- A 3 — 10 Outer Tubes
- A 10 — 1 Open End Tube
- B 3 — 7 Inner Tubes
- B 10 — 12 Joining Tubes
- C 20 — 1 Plate
- C 21 — 1 Plate
- D 1 — 4 Gussets
- D 2 — 4 Gussets
- E 1 — 18 Connecting Clips
- G 10 — 4 Pulleys
- H 2 — 1 Axle
- H 3 — 2 Axles
- H 5 — 8 Axles
- H 7 — 2 Axles
- H 10 — 6 Sleeves
- H 11 — 2 Couplings
- J 3 — 1 Handcrank
- K 1 — 1 Crankshaft
- N 1 — 1 Platform

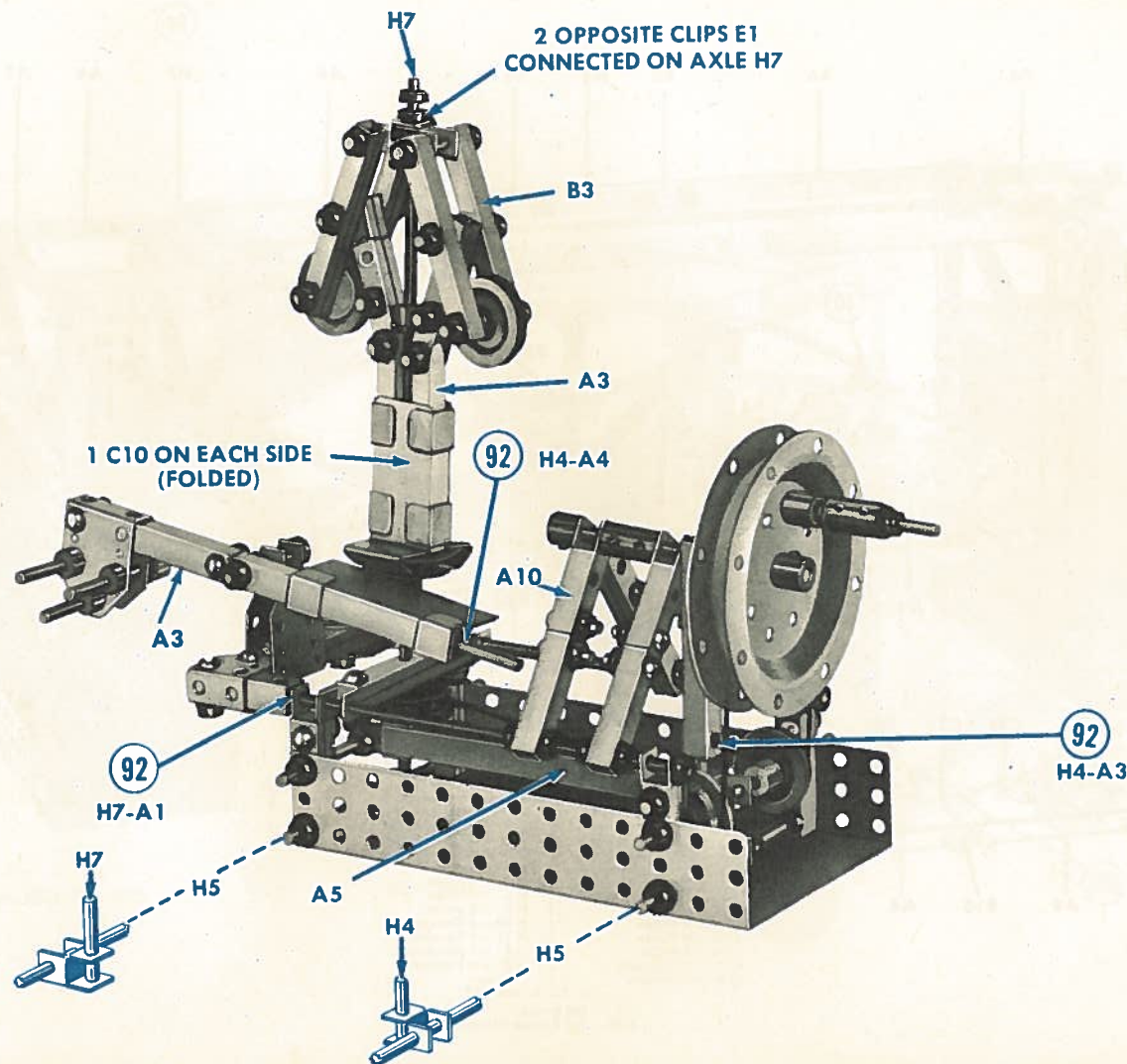
TOTAL pcs. 94
 F 1 — 29 Rivets
 F 10 — 62 Rubber Grommets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454



No. 410 GOVERNOR

- A 1 — 6 Outer Tubes
- A 2 — 1 Outer Tube
- A 3 — 5 Outer Tubes
- A 4 — 1 Outer Tube
- A 5 — 1 Outer Tube
- A 10 — 6 Open End Tubes
- B 3 — 4 Inner Tubes
- B 10 — 12 Joining Tubes
- C 10 — 3 Plates
- D 1 — 2 Gussets
- D 3 — 2 Gussets
- E 1 — 13 Connecting Clips
- E 3 — 6 Plain Clips
- G 1 — 2 Wheels
- G 2 — 2 Hubs
- G 10 — 4 Pulleys
- H 2 — 7 Axles
- H 3 — 5 Axles
- H 4 — 3 Axles
- H 5 — 4 Axles
- H 7 — 3 Axles
- H 10 — 6 Sleeves
- H 11 — 4 Couplings
- N 1 — 1 Platform

TOTAL pcs. 103

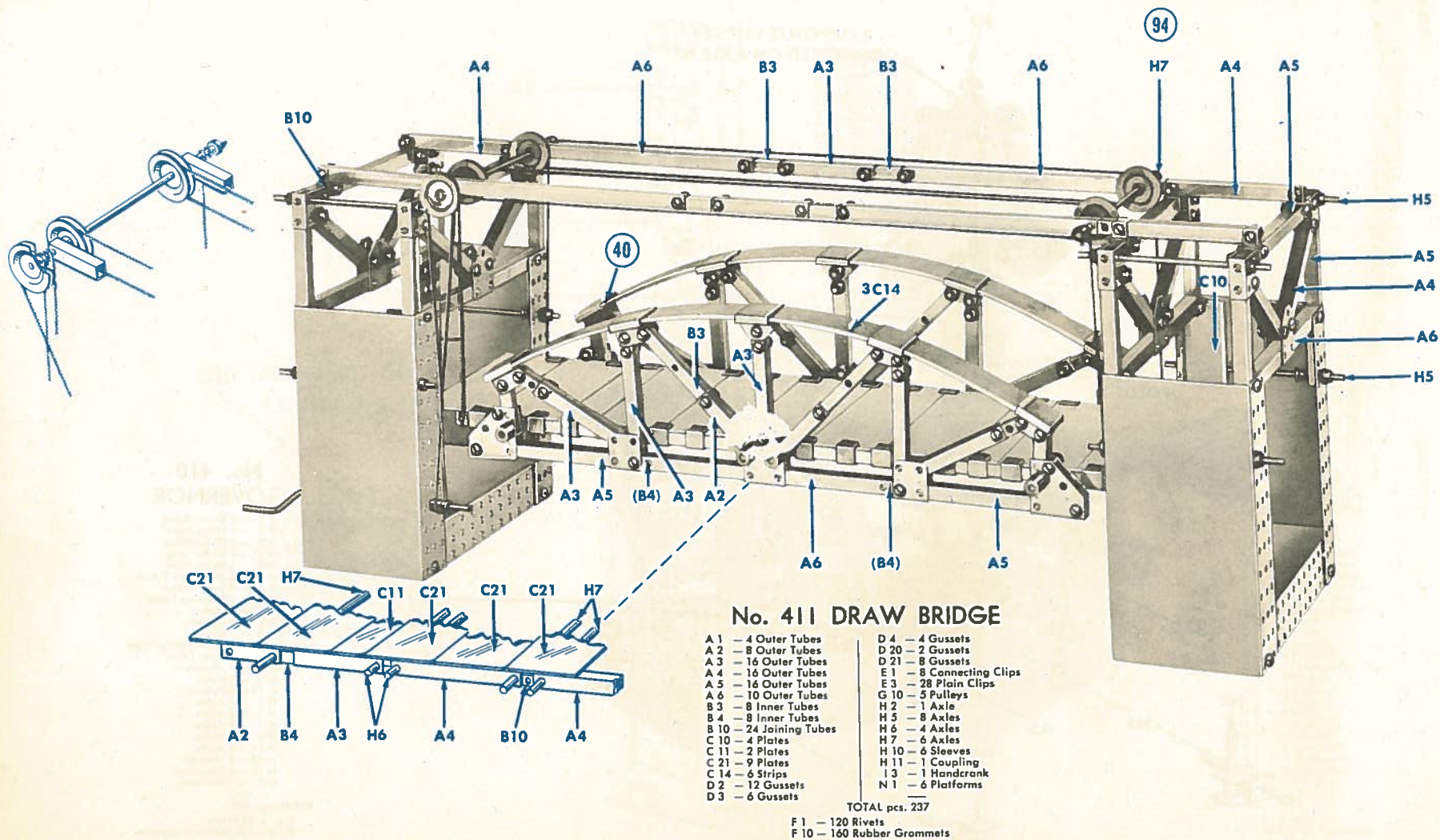
- F 1 — 23 Rivets
- F 10 — 100 Rubber Grammets

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454




No. 411 DRAW BRIDGE

- | | |
|-------------------------|--------------------------|
| A 1 — 4 Outer Tubes | D 4 — 4 Gussets |
| A 2 — 8 Outer Tubes | D 20 — 2 Gussets |
| A 3 — 16 Outer Tubes | D 21 — 8 Gussets |
| A 4 — 16 Outer Tubes | E 1 — 8 Connecting Clips |
| A 5 — 16 Outer Tubes | E 3 — 28 Plain Clips |
| A 6 — 10 Outer Tubes | G 10 — 5 Pulleys |
| B 3 — 8 Inner Tubes | H 2 — 1 Axle |
| B 4 — 8 Inner Tubes | H 5 — 8 Axles |
| B 10 — 24 Joining Tubes | H 6 — 4 Axles |
| C 10 — 4 Plates | H 7 — 6 Axles |
| C 11 — 2 Plates | H 10 — 6 Sleeves |
| C 21 — 9 Plates | H 11 — 1 Coupling |
| C 14 — 6 Strips | I 3 — 1 Handcrank |
| D 2 — 12 Gussets | N 1 — 6 Platforms |
| D 3 — 6 Gussets | |

TOTAL pcs. 237

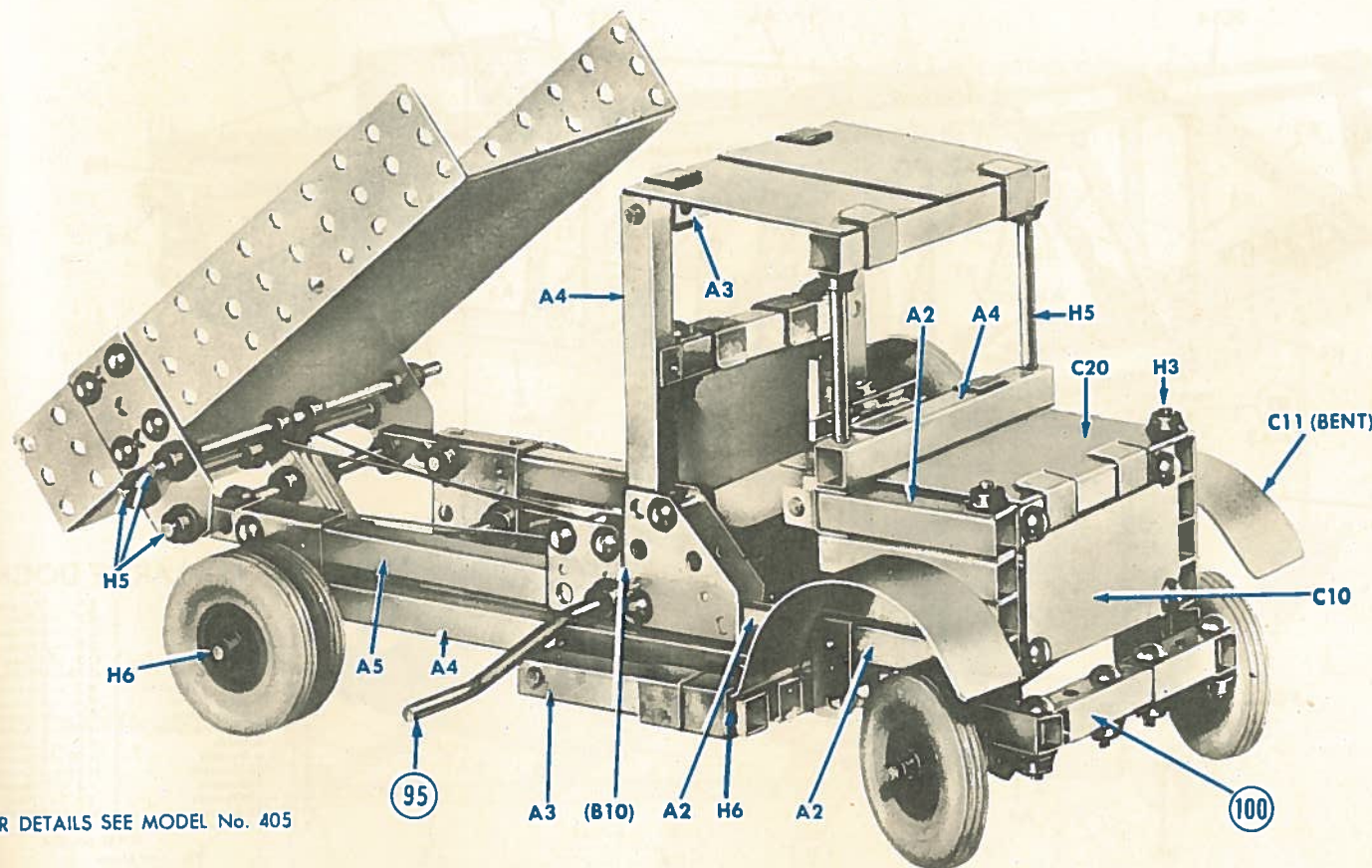
F 1 — 120 Rivets
F 10 — 160 Rubber Grommets

PLEASE NOTE — Number in CIRCLE  refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

No. 412 DUMP TRUCK



- A 1 — 2 Outer Tubes
- A 2 — 10 Outer Tubes
- A 3 — 12 Outer Tubes
- A 4 — 6 Outer Tubes
- A 5 — 2 Outer Tubes
- A 10 — 4 Open End Tubes
- B 3 — 2 Inner Tubes
- B 10 — 9 Joining Tubes
- C 10 — 3 Plates
- C 20 — 4 Plates
- C 11 — 2 Plates
- D 1 — 2 Gusssets
- D 2 — 4 Gusssets
- D 3 — 2 Gusssets
- D 4 — 2 Gusssets
- E 1 — 13 Connecting Clips
- E 3 — 20 Plain Clips
- G 1 — 7 Wheels
- G 3 — 7 Tires
- G 10 — 1 Pulley
- H 2 — 4 Axles
- H 3 — 2 Axles
- H 4 — 5 Axles
- H 5 — 5 Axles
- H 6 — 3 Axles
- H 10 — 3 Sleeves
- H 11 — 2 Couplings
- J 3 — 1 Handcrank
- N 1 — 1 Platform
- N 2 — 2 Platform Fittings

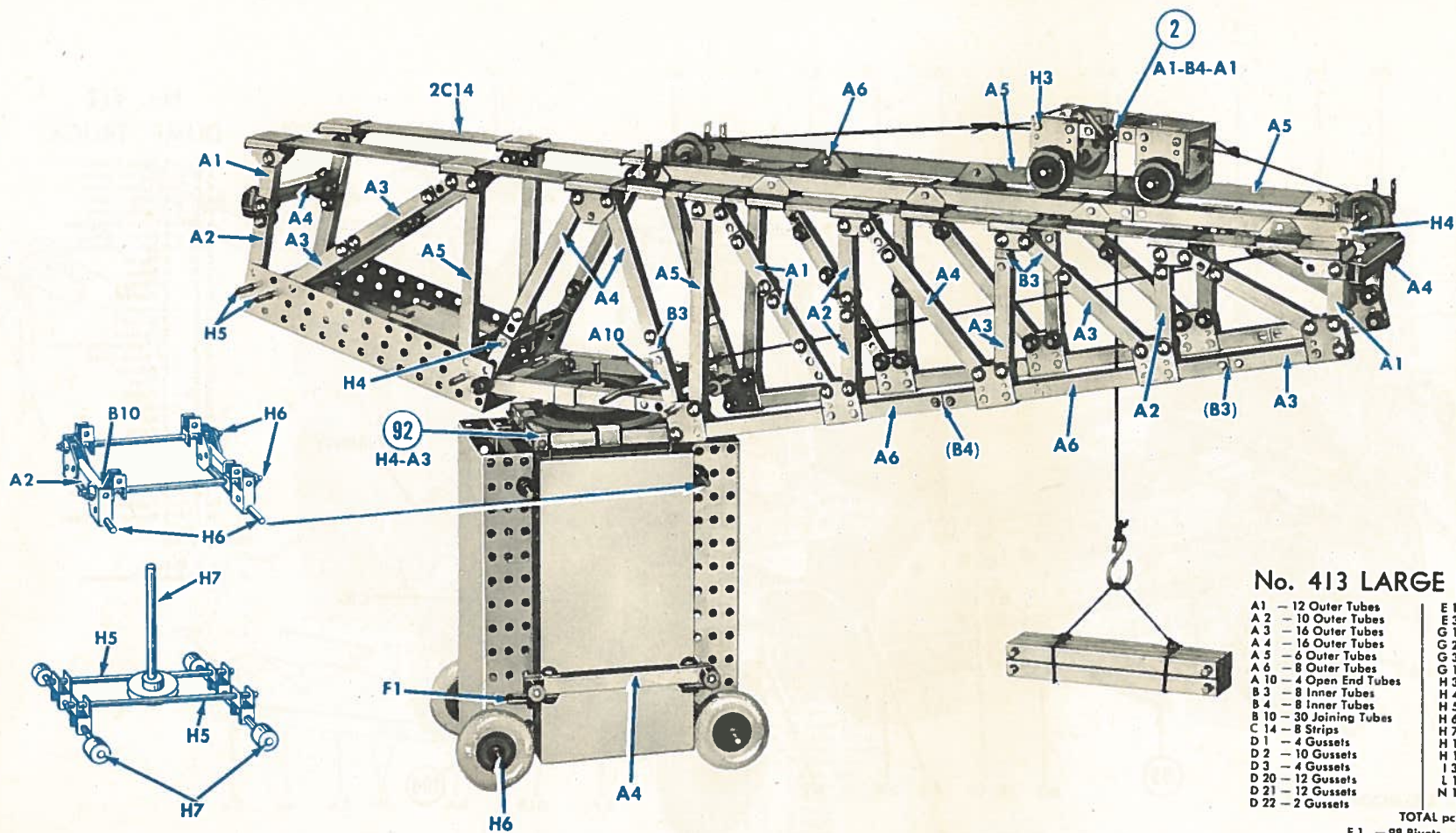
TOTAL pcs. 142

- F 1 — 28 Rivets
- F 10 — 96 Rubber Grommets

FOR DETAILS SEE MODEL No. 405

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454



No. 413 LARGE DOCK HOIST

| | |
|------------------------|-------------------------|
| A1 — 12 Outer Tubes | E1 — 24 Connecting Clip |
| A2 — 10 Outer Tubes | E3 — 8 Plain Clips |
| A3 — 16 Outer Tubes | G1 — 8 Wheels |
| A4 — 16 Outer Tubes | G2 — 2 Hubs |
| A5 — 6 Outer Tubes | G3 — 4 Tires |
| A6 — 8 Outer Tubes | G10 — 4 Pulleys |
| A10 — 4 Open End Tubes | H3 — 2 Axes |
| B3 — 8 Inner Tubes | H4 — 7 Axes |
| B4 — 8 Inner Tubes | H5 — 8 Axes |
| B10 — 30 Joining Tubes | H6 — 6 Axes |
| C14 — 8 Strips | H7 — 3 Axes |
| D1 — 4 Gussets | H10 — 6 Sleeves |
| D2 — 10 Gussets | H11 — 4 Couplings |
| D3 — 4 Gussets | H13 — 2 Handcranks |
| D20 — 12 Gussets | L1 — 1 Hook |
| D21 — 12 Gussets | N1 — 5 Platforms |
| D22 — 2 Gussets | |

TOTAL pcs. 264

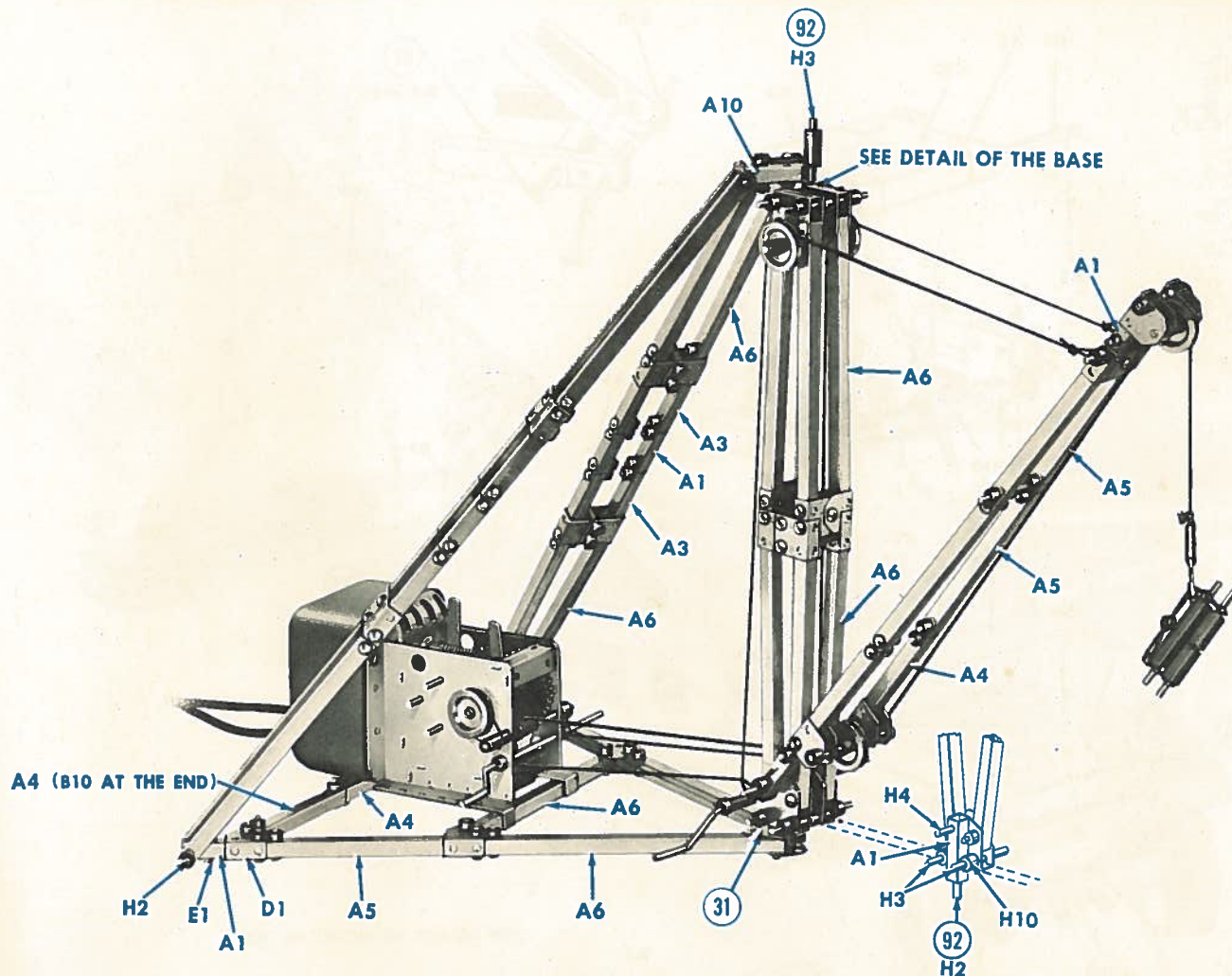
F1 — 98 Rivets
F10 — 149 Rubber Grommets

PLEASE NOTE — Number in **CIRCLE**  refers to one of the Sub-Assemblies shown on separate CHART.

Number in **PARENTHESIS** () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454



No. 414 DERRICK

- A 1 — 12 Outer Tubes
- A 3 — 8 Outer Tubes
- A 4 — 5 Outer Tubes
- A 5 — 6 Outer Tubes
- A 6 — 19 Outer Tubes
- A 10 — 2 Open End Tubes
- B 10 — 36 Joining Tubes
- D 1 — 10 Gussets
- D 2 — 12 Gussets
- D 3 — 5 Gussets
- D 10 — 4 Gussets
- E 1 — 4 Connecting Clips
- E 3 — 2 Plain Clips
- G 10 — 5 Pulleys
- H 2 — 6 Axles
- H 3 — 8 Axles
- H 4 — 2 Axles
- H 10 — 5 Axles
- H 11 — 1 Coupling
- J 3 — 2 Handcranks
- L 1 — 1 Hook

TOTAL pcs. 135
 F 1 — 99 Rivets
 F 10 — 168 Rubber Grommets

DETAIL OF THE BASE

PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESIS () indicates the number of the part that is concealed.

Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

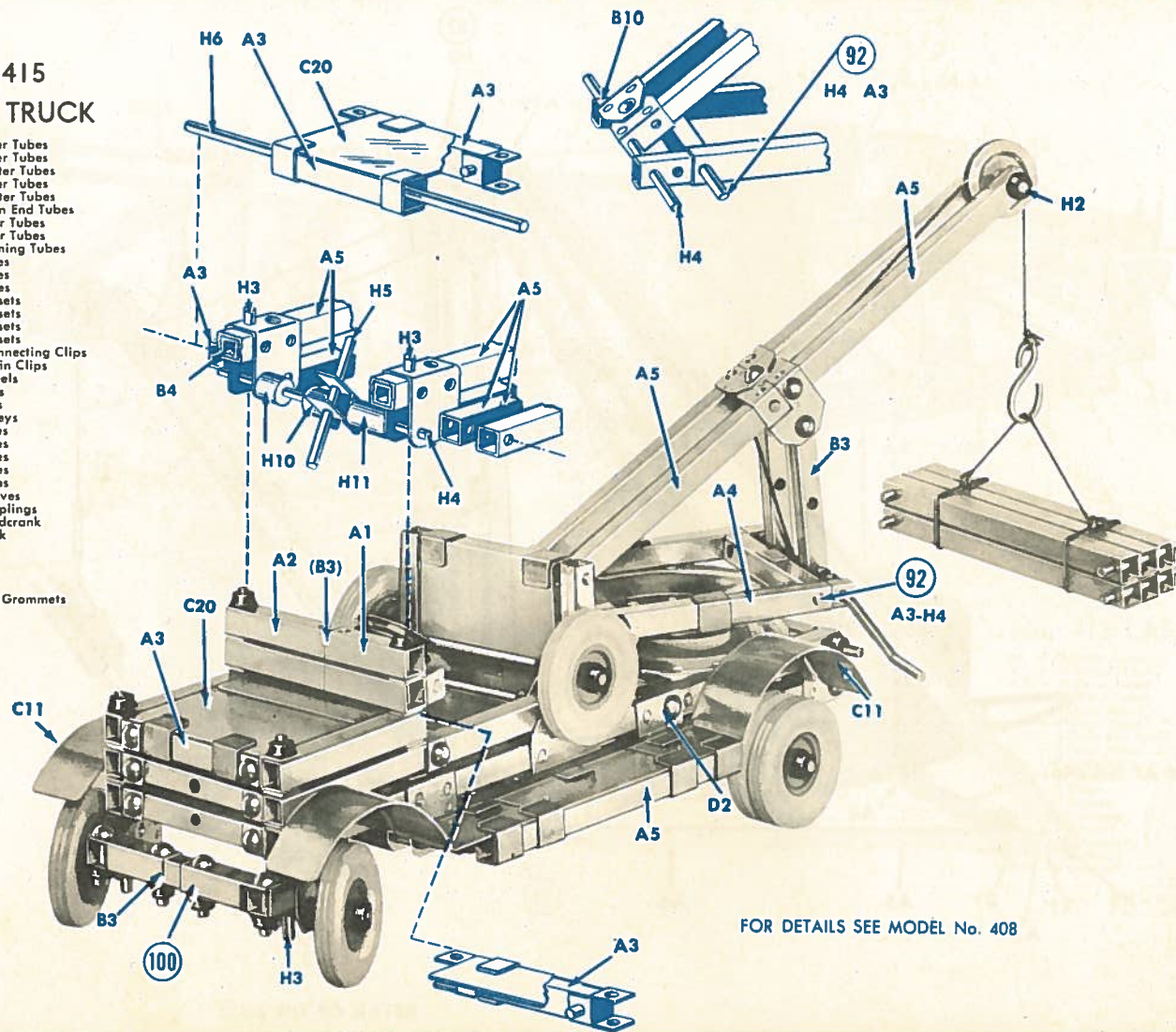
MODELS MADE WITH LIONEL CONSTRUCTION KIT No. 454

No. 415 REPAIR TRUCK

- A 1 — 4 Outer Tubes
- A 2 — 8 Outer Tubes
- A 3 — 16 Outer Tubes
- A 4 — 4 Outer Tubes
- A 5 — 12 Outer Tubes
- A 10 — 3 Open End Tubes
- B 3 — 8 Inner Tubes
- B 4 — 2 Inner Tubes
- B 10 — 15 Joining Tubes
- C 10 — 3 Plates
- C 11 — 4 Plates
- C 20 — 4 Plates
- D 1 — 6 Gussets
- D 2 — 6 Gussets
- D 4 — 2 Gussets
- D 10 — 4 Gussets
- E 1 — 17 Connecting Clips
- E 3 — 32 Plain Clips
- G 1 — 8 Wheels
- G 2 — 2 Hubs
- G 3 — 8 Tires
- G 10 — 2 Pulleys
- H 2 — 4 Axles
- H 3 — 4 Axles
- H 4 — 8 Axles
- H 5 — 3 Axles
- H 6 — 3 Axles
- H 10 — 2 Sleeves
- H 11 — 2 Couplings
- I 3 — 1 Handcrank
- L 1 — 1 Hook

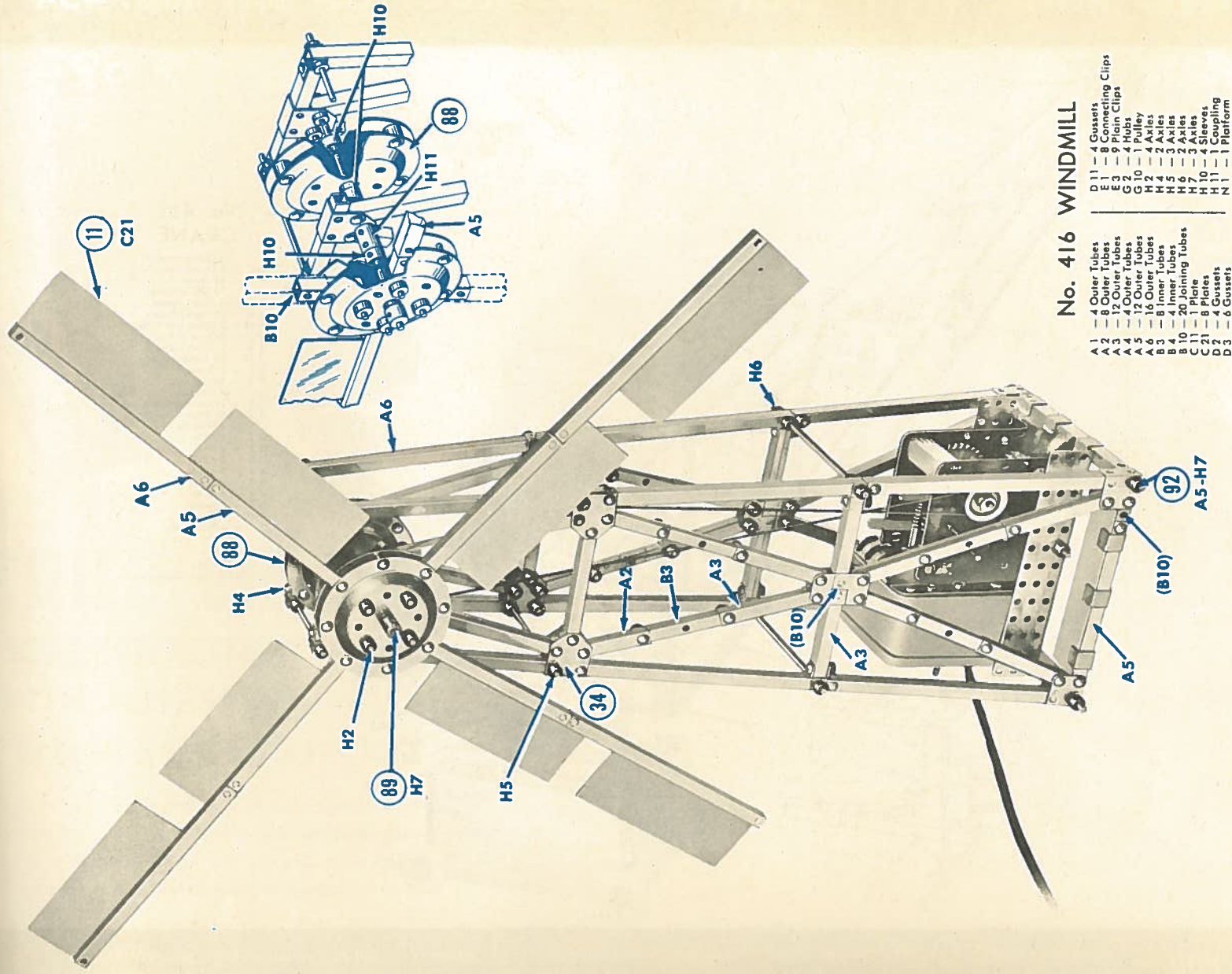
TOTAL pcs. 198

- F 1 — 31 Rivets
- F 10 — 106 Rubber Grommets



FOR DETAILS SEE MODEL No. 408

PLEASE NOTE — Number in CIRCLE () refers to one of the Sub-Assemblies shown on separate CHART. Number in PARENTHESIS () indicates the number of the part that is concealed. Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.

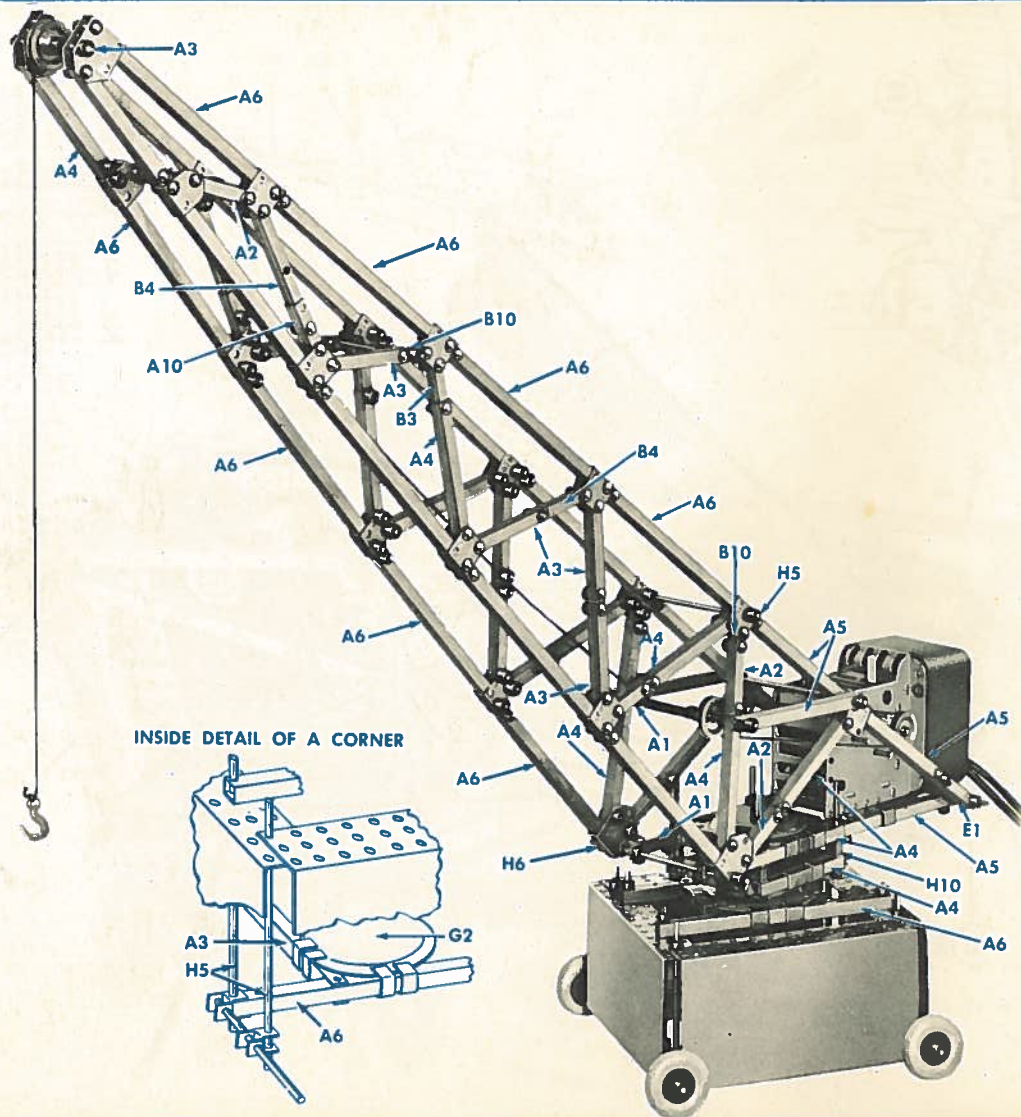


No. 416 WINDMILL

- | | | | |
|------|------------------|------|--------------------|
| A 1 | 4 Outer Tubes | D 11 | 4 Gussets |
| A 2 | 8 Outer Tubes | E 1 | 8 Connecting Clips |
| A 3 | 12 Outer Tubes | G 2 | 2 Chain Clips |
| A 4 | 12 Outer Tubes | H 1 | 1 Pulley |
| A 5 | 16 Outer Tubes | G 10 | 1 Pulley |
| A 6 | 8 Inner Tubes | H 2 | 4 Axles |
| B 3 | 8 Inner Tubes | H 4 | 2 Axles |
| B 4 | 4 Inner Tubes | H 5 | 3 Axles |
| B 10 | 20 Joining Tubes | H 6 | 2 Axles |
| C 11 | 1 Plate | H 10 | 3 Axles |
| C 21 | 6 Gussets | H 11 | 1 Coupling |
| D 3 | 6 Gussets | N 1 | 1 Platform |

TOTAL, pcs. 153

- F 1 - 94 Rivets
- F 10 - 148 Rubber Grammets



No. 417 CRANE

- A 1 — 4 Outer Tubes
- A 2 — 8 Outer Tubes
- A 3 — 16 Outer Tubes
- A 4 — 14 Outer Tubes
- A 5 — 8 Outer Tubes
- A 6 — 20 Outer Tubes
- A 10 — 2 Open End Tubes
- B 3 — 2 Inner Tubes
- B 4 — 4 Inner Tubes
- B 10 — 36 Joining Tubes
- D 1 — 2 Gussets
- D 2 — 16 Gussets
- D 3 — 4 Gussets
- E 1 — 26 Connecting Clips
- E 3 — 50 Plain Clips
- G 1 — 4 Wheels
- G 2 — 4 Hubs
- G 3 — 4 Tires
- H 3 — 5 Axles
- H 4 — 5 Axles
- H 5 — 9 Axles
- H 6 — 4 Axles
- H 7 — 1 Axle
- H 10 — 4 Sleeves
- N 1 — 4 Platforms

TOTAL pcs. 256
 F 1 — 122 Rivets
 F 10 — 186 Rubber Grommets

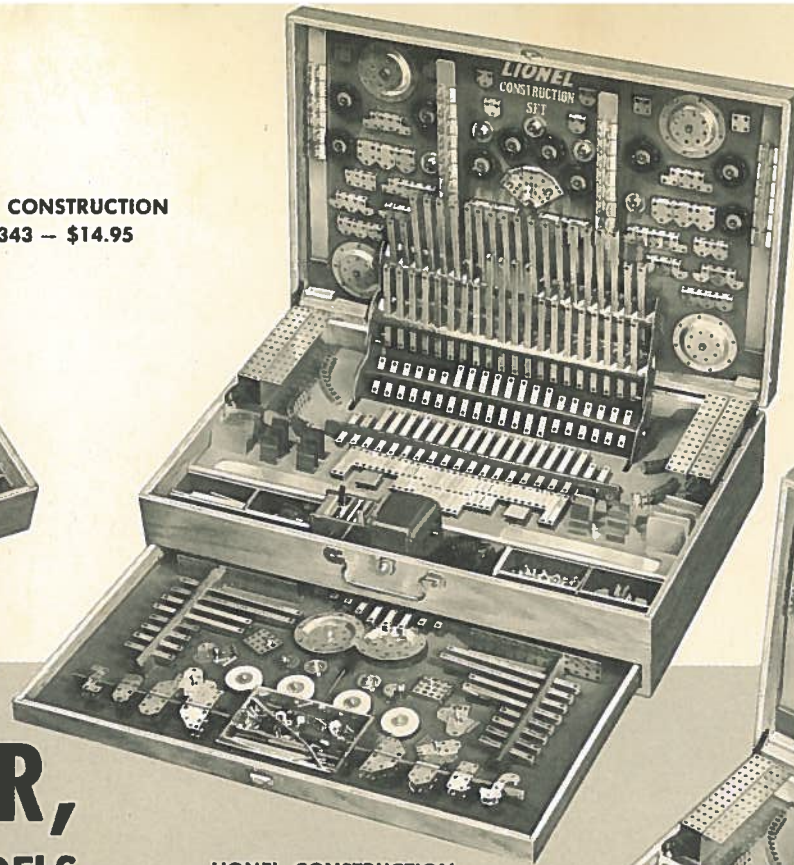
PLEASE NOTE — Number in CIRCLE ○ refers to one of the Sub-Assemblies shown on separate CHART.

Number in PARENTHESES () indicates the number of the part that is concealed.

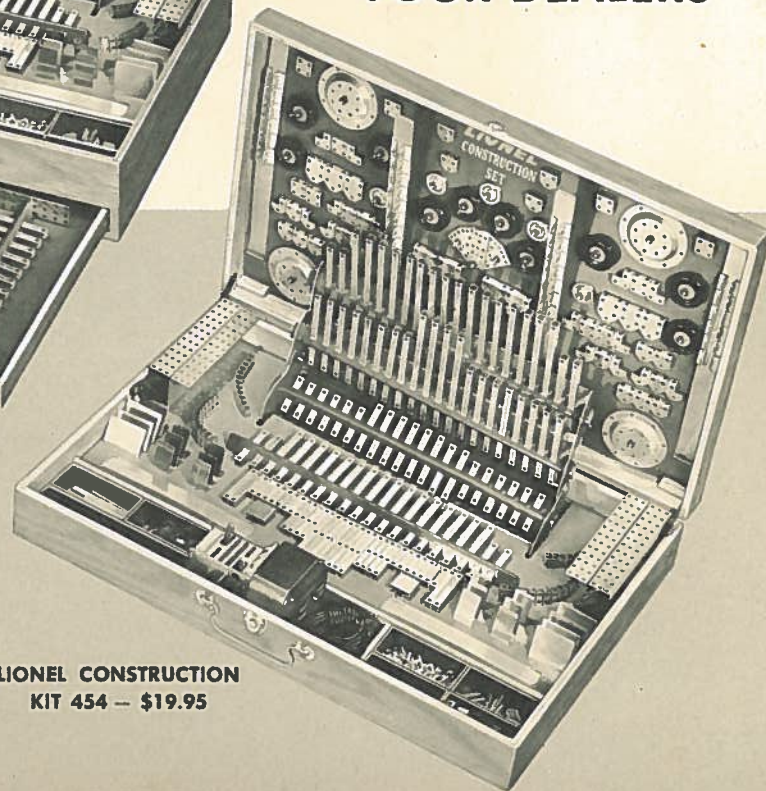
Other Numbers A1, B2, etc. refer to parts list accompanying model illustrated.



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