

Models Built with No. 10½ Erector

Section 10½
49

Instructions For Building the *MERRY-GO-ROUND* Model

When the carnival or circus comes to your town, one ride you always have is on the Merry-go-round. Now you can build your own Merry-go-round.

Figure 1 shows the completed model. The model is shown set up on a wooden board, but it is not necessary that this be done.

BASE AND MOUNTING OF MODEL

The base of the model is built with six (MN) 12" base plates and four (MD) 2½" x 5" base plates, constructed as shown in Figures 1 and 2. You should now add the two braces used to mount the motor down. These are built with a (DP) 12" angle girder overlapping a (BE) 6" angle girder. You can see the assembly of this in Figures 1 and 2.

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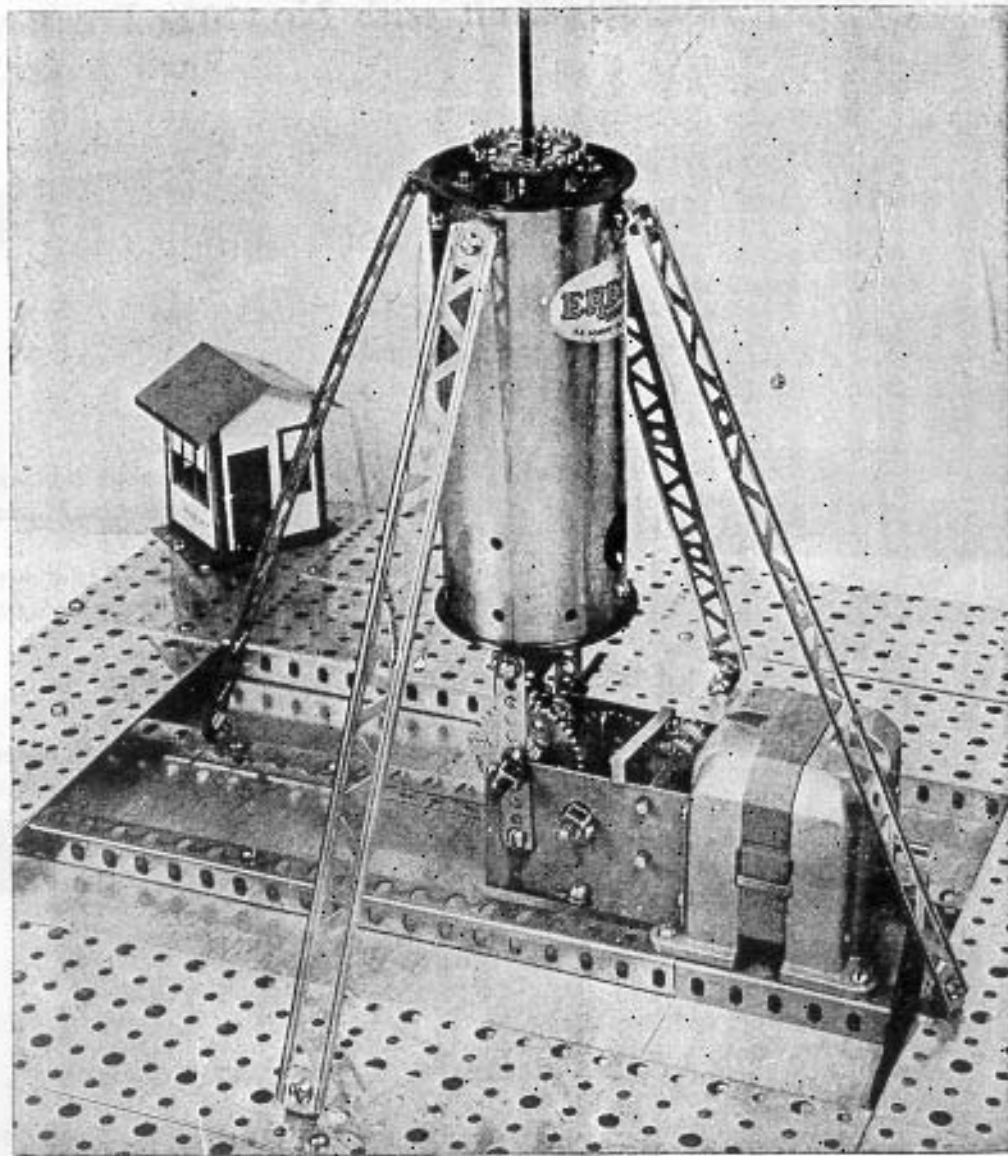
FIGURE 1

THE A. C. GILBERT COMPANY, NEW HAVEN, CONN. U.S.A.

Made In U.S.A.

Printed In U.S.A.

M-2685



MERRY-GO-ROUND — CONTINUED FROM PRECEDING PAGE

CENTER SECTION ASSEMBLY — FIGURE 2 AT L

The motor assembly is made by referring to Electric En number 11 in your Erector manual. This produces a slow vertical drive gear train. On top of the (MZ) bearing block the motor assembly, the (T) boiler is mounted between (BN) turret plates which are fastened to the boiler with (C) right angles inside the boiler. Before the top turret plate is fastened to the boiler, attach four (CH) angles to which (C) 10" girders are fastened. The (C) girders are braces to prevent the boiler from moving from side to side. These girders are fastened to the base with four (CH) angles as shown in Figure 2. Also, before the top (BN) plate is fastened to the boiler, attach a (P12) crown gear to the (BN) plate with (S-62) screws and (N21) nuts. After the (P12) and (BN) assembly has been fastened to the boiler, you can insert a (P57-F) 12" axle which continued to the top of the model with a (P15) coupling and an 8" axle drives the model.

FIGURE 2

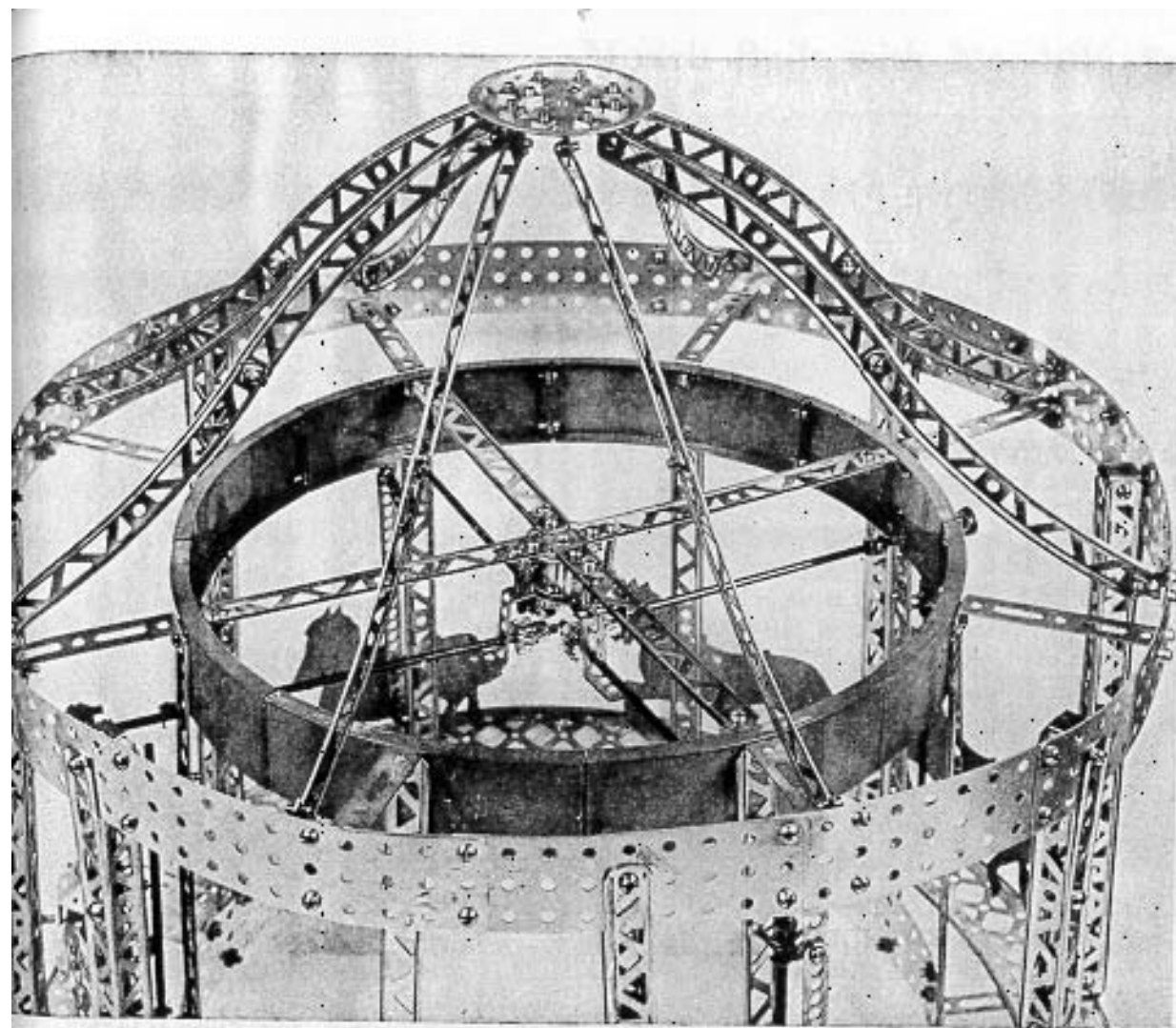


FIGURE 3.

OF MODEL — FIGURE 3 ABOVE
 outer top ring is made of 13 (MF) 1" x 5"

base plates overlapped as shown in Figure 3. The
 outer top ring is separated from the inner top ring,
 which is made of 8 (CS) wheel segments, by 8

(N) long double angles spaced as in Figure
 3. The "S" shaped girders forming the top
 cone of the model are each made of two
 (E) 5" curved girders and fastened to the
 top (BN) plate and the outer top ring with
 (CH) angles. To the (BN) turret plate is
 fastened a (BT) pierced disc. An 8" axle
 is fastened in this pierced disc and this axle
 supports the entire model and drives the
 entire model. This 8" axle is attached to
 the 1" axle coming from the motor with a
 P15 coupling.

The outer bottom ring is made of 9 (EZ)
 big channel curved 6" girders. The inner
 bottom ring is made of 8 (MF) 1" x 5"
 base plates overlapped to form the same
 size circle as the inner top ring. The outer
 bottom ring is fastened to the inner bottom
 ring with 8 (N) long double angles. The
 two inner rings are fastened together with
 8 (C) 10" girders. The two outer rings are
 fastened together with 8 square girders.
 Each square girder is made of 4 (C) 10"
 girders. Across the inner top ring are four
 (B) 5" girders which are fastened to the
 wheel segments with (O) pawl and to
 center with a (BT) pierced disc.

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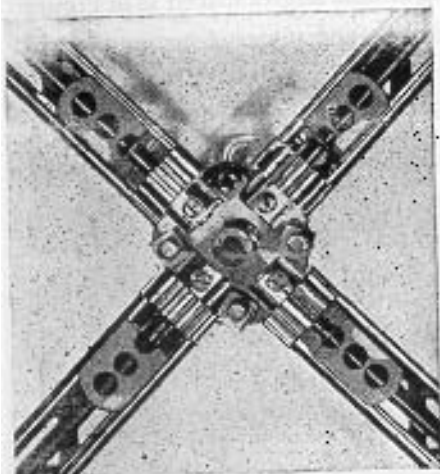


FIGURE 4

DETAIL OF DRIVING MECHANISM

The detail of the driving mechanism is shown in Figure 4 and 5. Two (OG) 21 hole strip formed are fastened between two (BT) pierced discs. These (OG) serve as bearings for $7\frac{1}{2}$ " axles to which are fastened P13B 12 tooth pinion gears. These gears revolve around the stationary crown gear and cause the horses to move up and down.

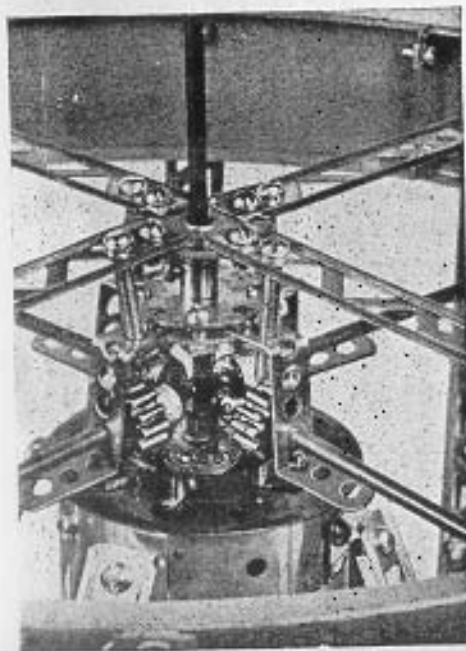


FIGURE 5

ASSEMBLY OF HORSES —FIGURE 6 AT RIGHT

The two stationary horses are fastened to the outer bottom ring with a (G) 7 hole strip and a (CH) right angle (Figure 1). The horses that move up and down do so by using an (AA) eccentric crank (Figure 6) which is fastened to the revolving $7\frac{1}{2}$ " axles. An (O) pawl is fastened to the horse which moves

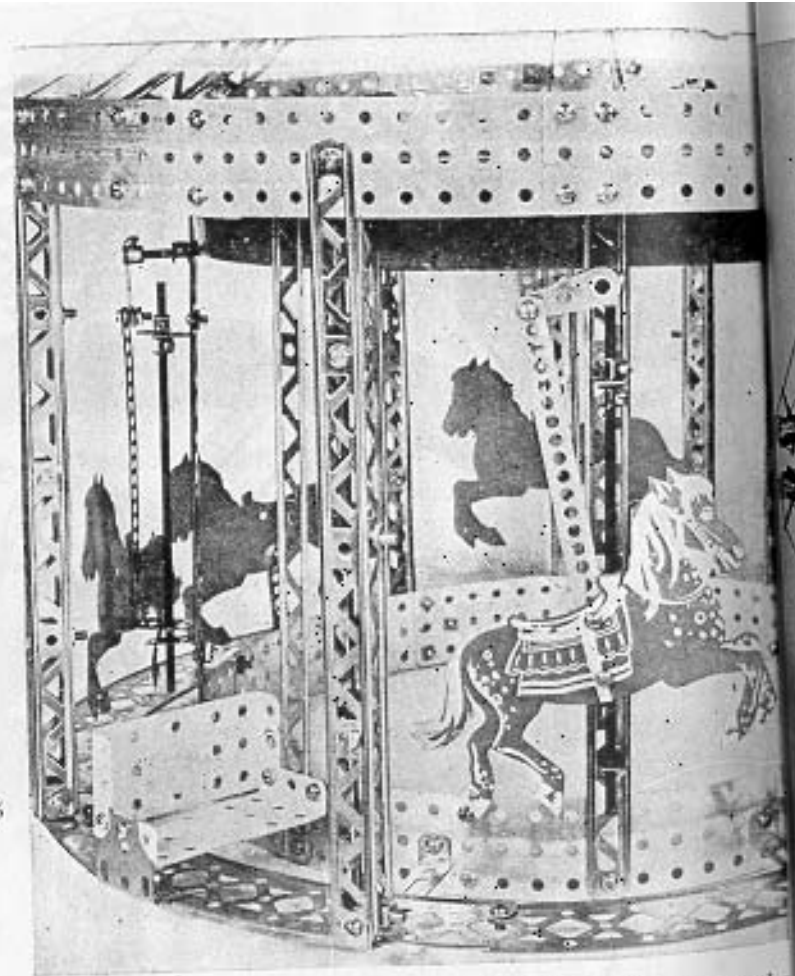


FIGURE 6

up and down on an 8" axle which is fastened to the (C) 10" girders with two (O) pawls. The seats are constructed with two (MC) $1" \times 2\frac{1}{2}"$ base plates which are fastened to the outer bottom ring with a P79 car truck. The seat is also fastened to the inner bottom ring. See Figure 6.