Models Built with No. 10 1/2 Erector

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) 2 1/2" 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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MERRY-GO-ROUND—CONTINUED FROM PRECEDING PAGE

CENTER SECTION ASSEMBLY—FIGURE 2 AT LEFT

The motor assembly is made by referring to Electric Engine number 11 in your Erector manual. This produces a slow speed, vertical drive gear train. On top of the (M2) bearing block in the motor assembly, the (T) boiler is mounted between two (BN) turret plates which are fastened to the boiler with (CH) right angles inside the boiler. Before the top turret plate is fastened to the boiler, attach four (CH) angles to which four (C) 10" girders are fastened. The (C) girders are braces and prevent the boiler from moving from side to side. These (C) 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 four (S-62) screws and (N21) nuts. After the (P12) and (BN) assembly has been fastened to the boiler, you can insert a (P57-84) 12" axle which continues to the top of the model with a (P15) coupling and an 8" axle drives the model.

FIGURE 2
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 crowe gear and cause the horses to move up and down.

**Figure 6**

**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 up and down on an 8" axle which is fastened to the (C) 10" girders with two (O) paws.

The seats are constructed with two (MC) 1" x 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.