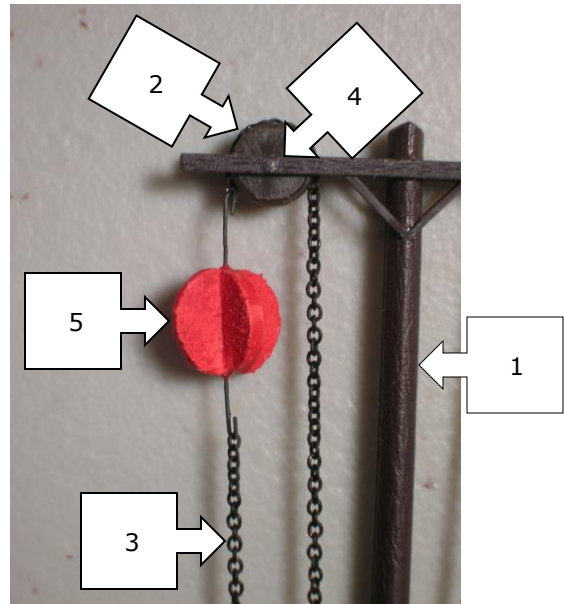
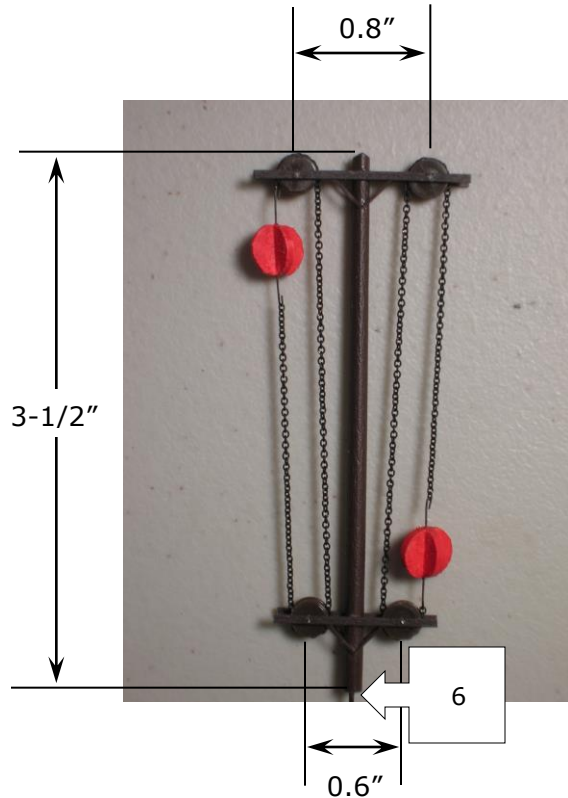


Manual Ball Signal



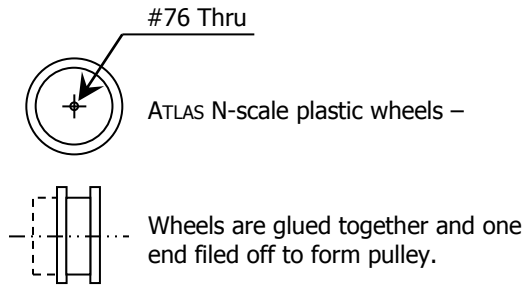
Parts needed:

1. RIX PRODUCTS HO-scale Railroad Telephone Pole kit (Stock #628-0032):
Each ball signal is made up of (1) pole & (4) cross braces
2. (4) ATLAS N-scale (plastic) truck wheel sets (See **Diag. 1 – PULLEY**, Page 2)
3. A-LINE #29220 chain: 27-Link per inch (black)
4. (4) 0.02" OD brass rod: 1-2" long
5. (4) 3/8" OD x 1/16" thick dowel (either wood or styrene) – Two of the four pieces are cut in 1/2 and each half glued perpendicular to each face of the other two unsplit pieces. (See **Diag. 2 – BALL**, Page 2) You could use an equivalent sized bead of whatever you like. I just used what I had on hand.
6. Rail spike (for securing ball signal to foam base)

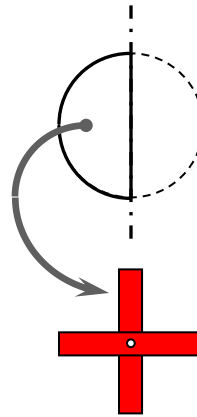
Notes (or hindsight):

1. If you don't want to use the RIX PRODUCTS telephone poles, you could use 1/8" OD styrene rod or tubing for the pole and dimensional 1 x 2 for the supports. Again, I just used what I had on hand.
2. Also, if using 1/8" OD styrene: You can roughen the exterior of the pole by scraping it horizontally with the teeth of a razor saw. Rotate the pole so that the grooves are evenly distributed but still somewhat random. I do this also for my exterior light poles. When painted with Floquil Roof or Rail Brown, it looks very much like a wood pole. For metal poles, don't scrape exterior.
3. Lanterns would have been added for viewing/seeing ball signal at night.

Manual Ball Signal



Diag. 1 – PULLEY



3/8" OD x 1/16" thick dowel split in $\frac{1}{2}$ and each half glued perpendicular to each face of unsplit dowel.

When viewed from any angle it looks like a ball. (This particular method was used by railroads for making ball signals. However, the material was usually painted sheet metal and, therefore, much thinner.)

Diag. 2 – BALL