



Models

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SMALL SIZE WHEEL ASSEMBLY DIRECTIONS
FOR 24, 36, AND 40 SMALL SIZE SPOKED WHEEL KITS

READ BEFORE ASSEMBLING

Option: Depending on your preference silk thread, Kevlar, or a fine steel wire can be used for the spokes. Steel wire is included in the kit.

STEP 1

Use a pin vice or small sized drill such as a Dremel or a pin vice check and clear if necessary any obstructions to the holes. Use a compass to draw a circle the same size as the rim. Securely pin the rim to a flat working surface centered to your drawing.

STEP 2

Mount the hub centered to the rim using a piece of tubing or axle wire to secure the part in place. Slide the hub over a piece of tubing or wire which has been pressed down into the center position marked with the compass in step 1.

STEP 3

Lace the wheels one side at a time. Several methods of spoke patterns can be applied. Spokes can radiate directly from the hub to the rim or they can be grouped in pairs originating from opposite sides of the hub and running parallel to the appropriate holes on the rim. The second method is more difficult but is more realistic. To be sure refer to photos of your subject for the appropriate method.

STEP 4

When finished with one side turn the wheel over and repeat the process. If you are lacing with thread work around the wheel with a tweezers and work out as much slack as possible. Start at the beginning and pull the excess along through all the holes before you tie off the thread. If you are working with wire apply the spokes in lengths necessary for only 2-4 spokes in a wire segment this will be easier than working with a long wire length.

STEP 5

Attach wire with thin CA . The thread can be finished to look very realistic by wicking silver paint into the fibers of the thread with a micro brush or a capillary tube. Repeat the process with thin CA to seal. Add the tire when dry, it is normally not necessary to glue the tires to the rim.

WWI Aero Magazine has published several articles regarding spoked wheels. For historical accuracy they provide the most complete information we have found. WWI AERO can be contacted at:
(914) 473-3679

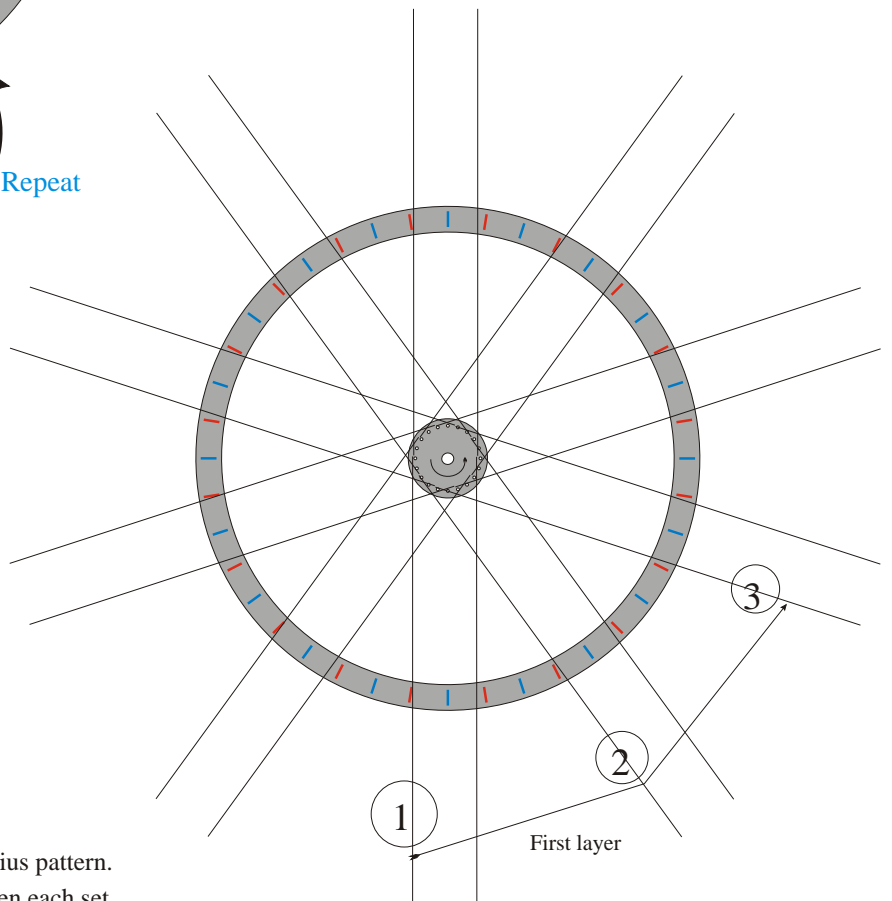
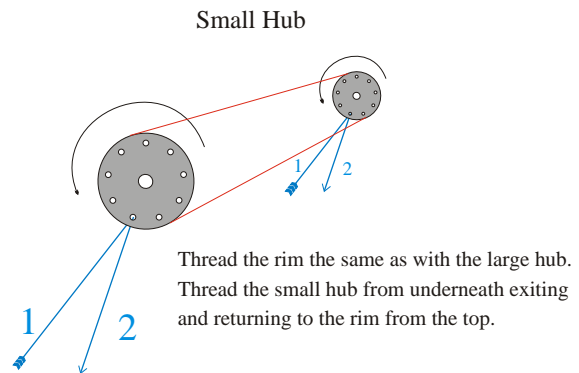
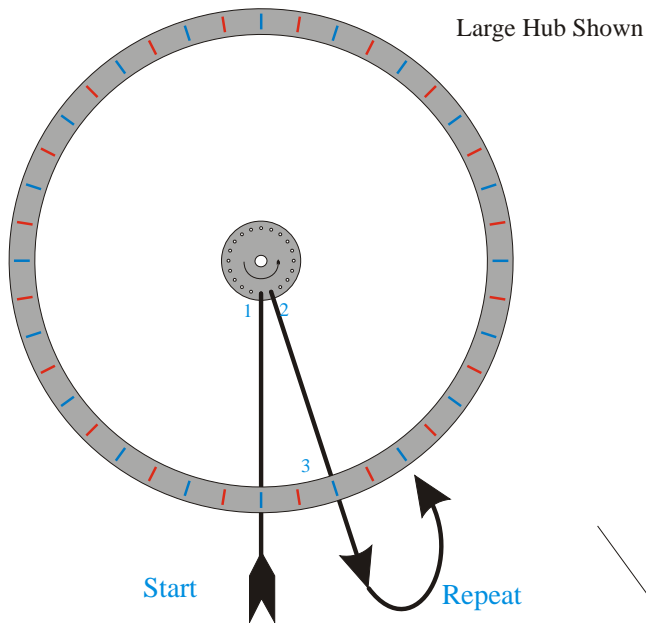
GOOD LUCK and GOOD FLYING.

SPOKE PATTERN

Follow the same procedure
or other spoke patterns.

Radius Spoke Pattern

Tie the thread to a pin outside the rim. Thread through the rim to the top side of the hub. Go underneath the face of the hub to the next adjacent hole. Bring the thread up through the hole and thread through the second hole in order on the rim. You should skip every other hole on the rim leaving the alternate holes open for the other side of the hub.



Parallel Spoke Pattern

Follow the same basic procedure as for the radius pattern. Note the difference in the holes skipped between each set.

Small wheel alignment templet

