

AndyMark 8" Plastic Omni Wheel w/ $\frac{3}{8}$ " Ball Bearings (am-0200) Assembly Instructions



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Parts needed to make an 8" Plastic Omni Wheel:

Tools needed:

Component	Qty.	Part #
Black SBR Rollers	18	am-0049
Steel Dowel Pins	18	am-1019
Brass Omni-roller Sleeves	36	am-0050
8" Plastic Omni Wheel Webs	2	am-0079
M5 x 0.8 x 20mm SHCS screws	6	am-1020
M5 Nylock Nuts	6	am-1215
M3 Nylock Nuts	18	am-1163
M3 x 10mm SHCS	18	am-1210
1614ZZ shielded, $\frac{3}{8}$ " id ball bearings	2	am-0209

$\frac{3}{16}$ " Allen wrench
small roll of tape
Press

8" Plastic Omni Wheel Assembly Instructions:

Step 1: Make sure all brass omni-roller sleeves are inside the black SBR rollers. Insert steel dowel pins into black SBR rollers.



Step 2: Place one of the 8" plastic omni wheel webs on top of the small roll of tape.



Step 3: Place the black SBR rollers into their appropriate slots.



Step 4: Place the second 8" plastic omni web on top of the first web, making sure that the one pin goes into its designated hole.



Step 5: One at a time place a M3 nylock nut into 4 of the holes in a “plus-shaped” form on the omni web that is underneath. On the omni web that is above insert 4 M3 x 10mm SHCS so they align with the ones underneath. Screw them in loosely as you do so, but tighten them all once all four screws are inserted.

*Note: You might need an extra hand to help you firmly hold down the middle part of the omni web.



Step 6: Insert a M3 nylock nut and screw it in with its M3 x 10mm SHCS until all holes have been filled.



Step 7: Flip over the omni wheel so the ends of the screws are shown. Place a M5 nylock nut into one of the 6 middle spots. Hold on to that nut with your finger. Insert the corresponding M5 x 0.8 x 20mm SHCS, and tighten it in.



Step 8: Repeat step 7 until all six holes have been screwed into. Press a 1614ZZ shielded, $\frac{3}{8}$ ” id ball bearing on each side of the wheel.

