

# AndyMark 8" Mecanum Wheel Assembly Instructions

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Parts need to make one (1) 8" Mecanum Wheel

Tools needed:

Item	Component	Qty.	Part #
A	Side plate (right or left)	2	am-0630 (R) am-0631 (L)
B	Molded roller w/ black core and 2 bushings	12	am-0608
C	Brass tube	12	am-0602
D	1600 Spacer	1	am-0652
E	#10-32 x 3.0 Inch-long screw	18	am-1201 (25)
F	#10-32 Nylock nut	18	am-1212 (50)
G	1/4" Stainless steel washer, 0.04" thick	24	am-1149 (100)

5/32" Hex head driver
3/8" Wrench (or socket)
Cordless drill, set on low torque setting



Set of 4 am-0083

## Wheel Assembly Instructions:

**Step 1:** Lay one side plate (A) down on the table with inside face (inside sticker is on one side of plate). Feed screws (E) from bottom up through the 6 interior holes closest to the center bore.



Step 1



Step 2

**Step 2:** Place the 1600 Spacer (D) on the plate by feeding the screws (E) through the 6 holes in the spacer.

**Step 3:** Place second side plate (A) inside down onto wheel assembly. The "inside" of the plates should face each other. Then install nuts (F) on each of the 6 interior screws, but leave them only finger-tight.



Step 3



Step 4

**Step 4:** Insert brass tube (C) into roller (B), repeat for all rollers.



Step 5



Step 6

Step 5: Feed screw (E) from bottom up through perimeter hole, making sure that the screw head is on the same side as the screw heads of the interior screws. Put washer (G) onto screw (E), over plate.

Step 6: Put roller (B) onto screw (E). Put washer (G) onto screw (E), on top of roller (B). Place the washer so that the brass tube is inside the inner hole of the washer.

Step 7: Install nut (F) on the axle screw, and tighten just enough to fully engage the nylock nut.



Step 7



Step 8

Step 8: Repeat steps 5 through 7 for the remaining 11 rollers (B).

Step 9: Use the  $\frac{3}{8}$  wrench and a  $\frac{5}{32}$  hex driver (or allen wrench), and tighten the 12 perimeter screws first, keeping the washers fitted over the brass tubes and not sandwiched between the tube and the side plate. Tighten the 6 interior screws in a balanced way.



Step 9



Step 9

Images of final wheel assembly

