

AndyMark 8" HD Mecanum Wheels Set (am-2152) Assembly Instructions

January 2013



Parts needed to make one 8" HD Mecanum Wheel:

Tools needed:

| Component | Qty. | Part # |
|---|------|---------|
| Left 8" Mecanum Wheel Plate | 2 | am-0631 |
| 8" Mecanum Support Spacer | 1 | am-2066 |
| 1/4" id Bushings | 24 | am-0603 |
| Brass Axle Tubes 0.192" x 0.250" x 0.264" | 24 | am-2117 |
| 10-32 x 3.25" SHCS | 18 | am-2320 |
| 10-32 Nylock Nut | 18 | am-1161 |
| #10 Flat Washers | 25 | am-1216 |
| Outer Roller for 8" Mecanum | 24 | N/A |
| Gray Rubber Rollers for 8" Mecanum Wheel | 1 | am-0613 |

| |
|-------------------------------|
| Cordless Drill, set on medium |
| 3/8" Allen wrench bit |
| 3/8" Socket wrench |

Step 1: Place an 8" mecanum wheel plate so the inside is facing up.



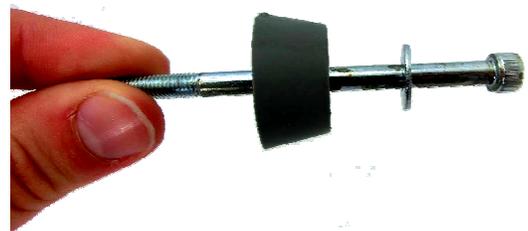
Step 2: Place the mecanum support spacer on top of this assembly, and then place the other mecanum wheel plate. Make sure the holes align.



Step 3: By hand, tighten six screws to the middle, outer holes as shown below.

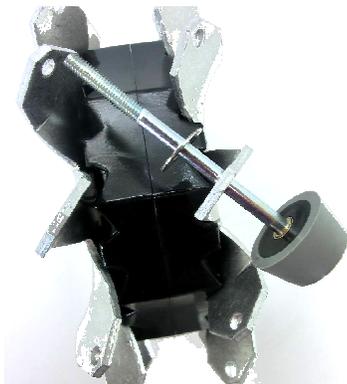


Step 4: Press in a 1/4" id bushing into the mini outer roller and slide in a brass axle tube. Place a #10 flat washer (smaller one) along with the outer roller assemblies as shown below onto a screw.

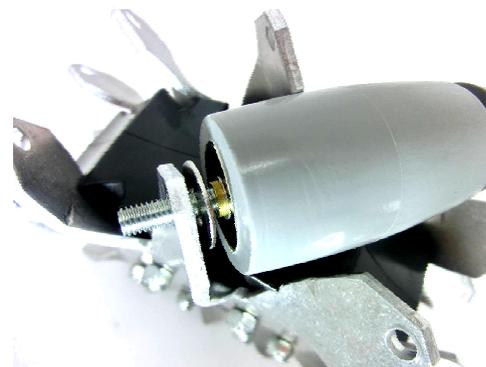


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Step 5: Place this screw into the mecanum wheel assembly and then add one of the larger washers. Make sure that you insert this screw so that all the screw ends will be on the same side.



Step 6: Insert a brass axle tube into the roller. Insert this rubber roller assembly and then add 1/4" SS washer before going through the next plate.



Step 6: Insert another outer roller assembly.



Step 7: By hand, screw in a nut.



Step 8: Repeat steps 4-7 until the rest of the rollers are in.



Step 9: With the cordless drill, tighten everything.

