

# **AndyMark**<sup>®</sup>

## **Robot Parts Cart**

(am-5230a)  
*Assembly Guide*



Revision #	Date	Author	Purpose
0	04/29/2024	E. Clark, E. Scime	Original Document
1	6/26/2025	E. Scime	Updated to am-5230a

N. Massouda

6/16/2025

Reviewer




Date Reviewed

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## Parts & Tools

### Recommended Tools List



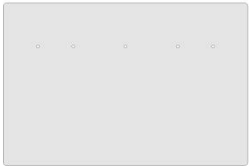

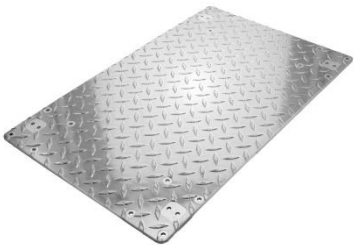

Component	Part #	QTY	Photo
3/8in Nut Driver	am-3877	1	
5/32in Ball End Hex Driver	am-2751	1	
1/8in Ball End Hex Driver	am-2750	1	
1/2-9/16 Open-End Wrench	am-2746	1	
3/8-7/16 Open-End Wrench	am-2745	1	
Hand Rivet Tool	am-2834	1	
3/8in Magnetic Nutsetter	am-2755	1	
Drill	N/A	1	



## Parts List

Component	Part #	QTY	Photo
Organizer Container with 15 Adjustable Compartments	am-4972	8	
4 in Caster Assembly	am-2799	2	
4 in Caster Assembly with Break	am-4989	2	
Surface Latch	am-4973_latch	2	
	am-4973_plate	2	
17 5/16 in. Long Churro Extrusion	am-5218	8	
3/16 in. Diameter 0.126 to 0.25 in. Grip Range Steel Rivet	am-1226	50	
1/4 – 20 x 0.75 in. Self Tapping Hex Washer Head Screw	am-1310	25	

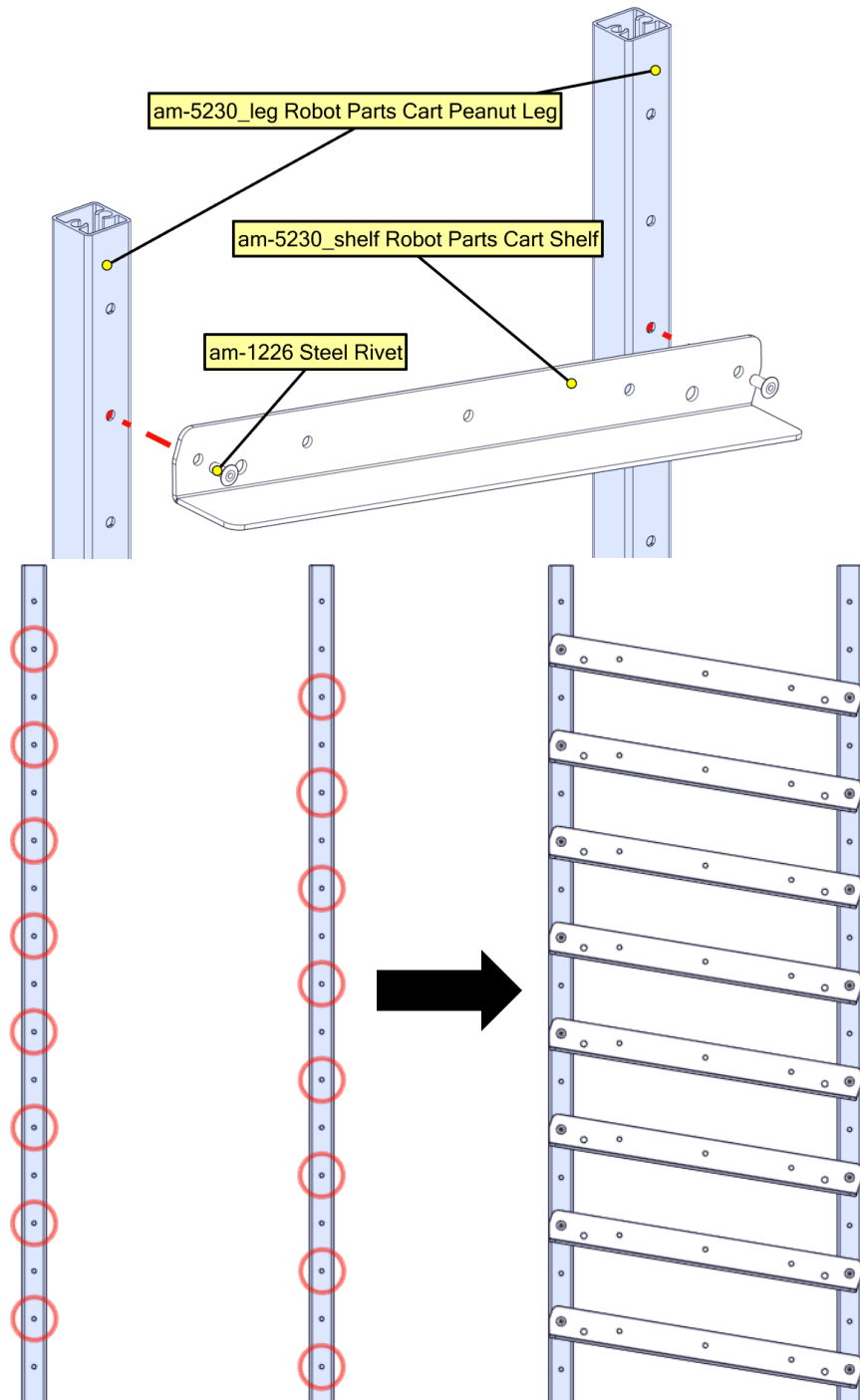
Component	Part #	QTY	Photo
1/4 – 20 x 1.75 in. Thread Forming Screw	am-1372	8	
10-32 x 5/8 Button Head Cap Screw with Nylon Patch	am-1549	4	
10-32 x 3/4 in. Flat Head Cap Screw	am-1170	14	
10-32 Nylock Jam Nut	am-1063	18	
1/4 – 20 x 1in. Button Head Cap Screw	am-1525	16	
1/4" Washer	am-1027	16	
1/4 – 20 Nylock Jam Nut	am-1102	16	

Component	Part #	QTY	Photo
Robot Parts Cart Top Plate	am-5230a_top	1	
Robot Parts Cart Shelf	am-5230_shelf	19	
Robot Parts Cart Battery Tray Polycarbonate	am-5230_tray	3	
Robot Parts Cart Peanut Leg	am-5230_leg	4	
Robot Parts Cart Diamond Plate Base	am-5230_base	1	
Robot Parts Cart Battery Tray Polycarbonate	am-5230_spacer	4	

## Assembly

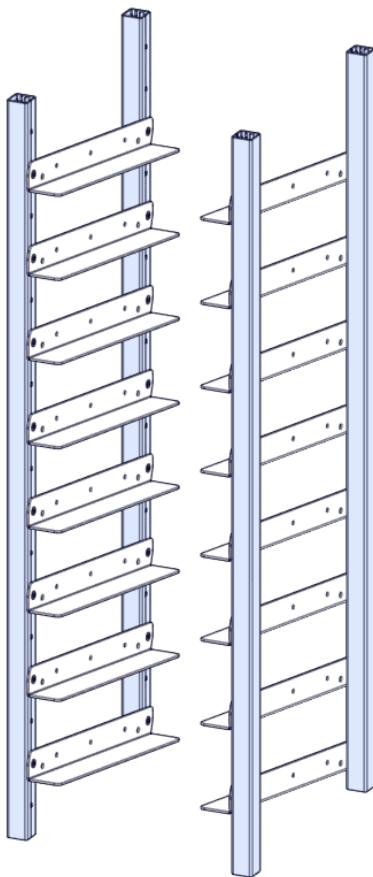
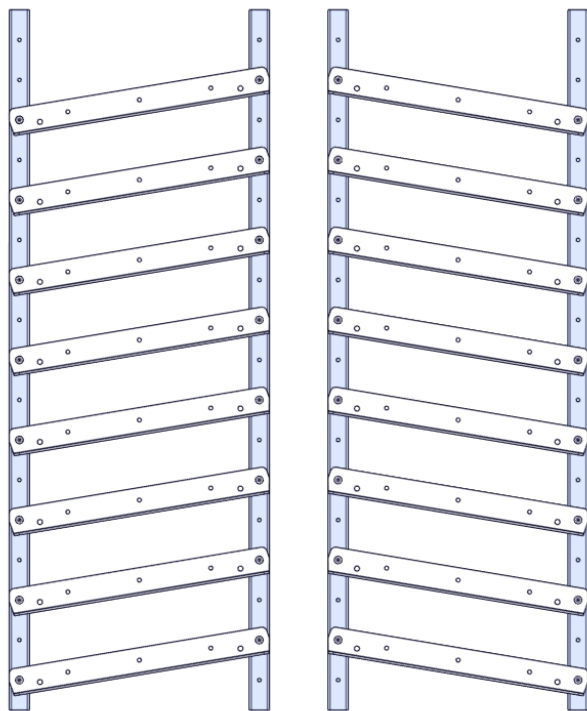
### Step 1

Align the Robot Parts Cart Shelf (am-5230\_shelf) with two Robot Parts Cart Peanut Legs (am-5230\_leg) as shown and attach them using two rivets (am-1226). From the “top” of the cart, place shelves every other set of holes, starting with the second hole down on one side and the third hole down on the other.



## Step 2

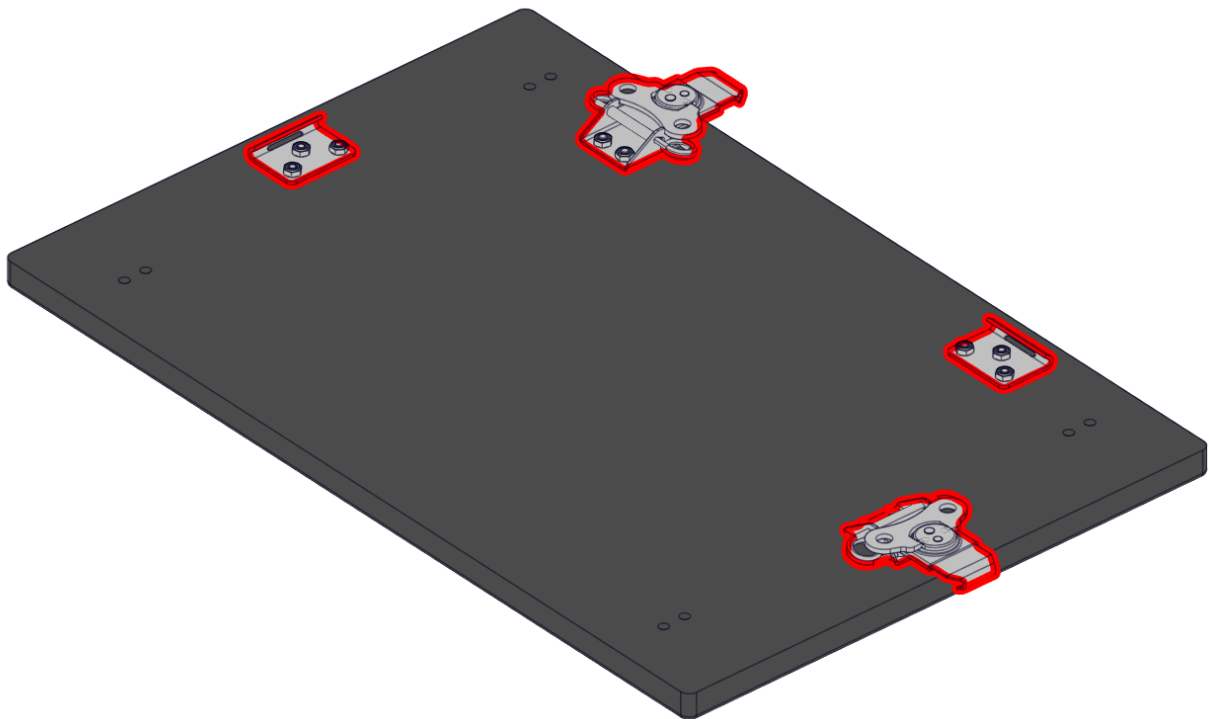
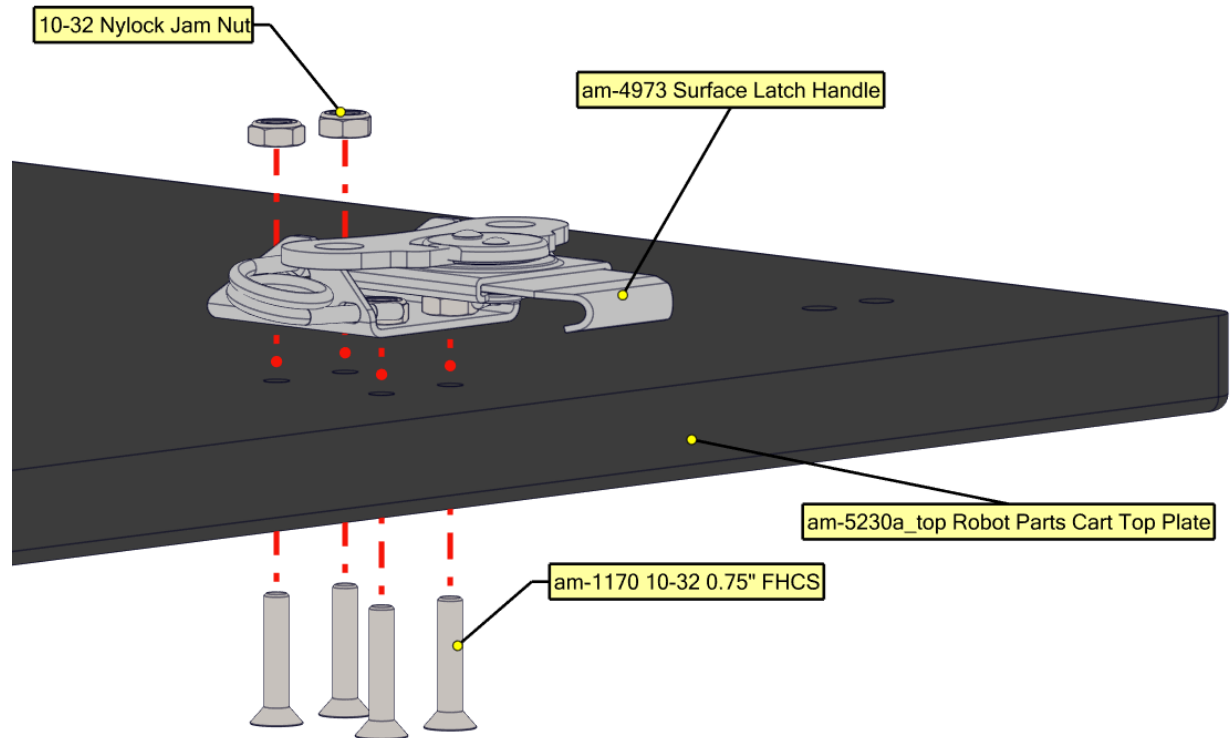
Repeat Step 1, but mirror the placement of each shelf as shown.





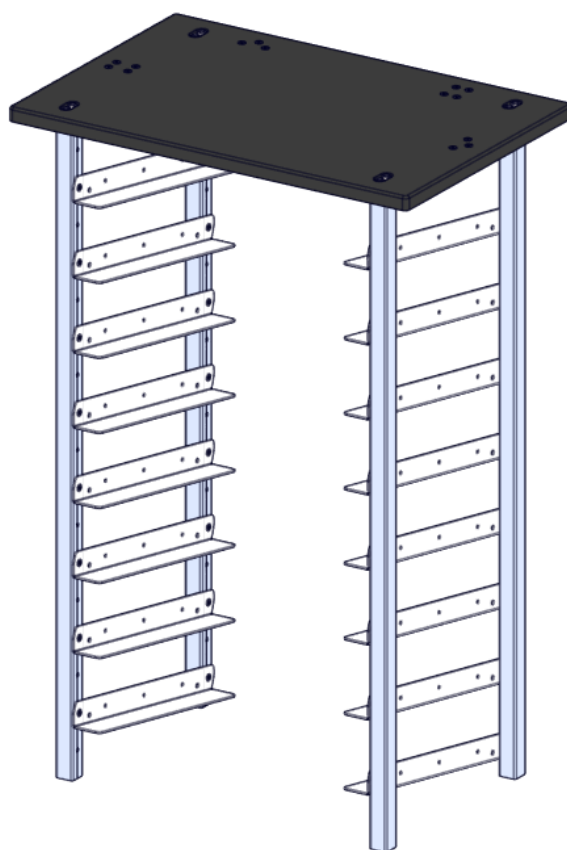
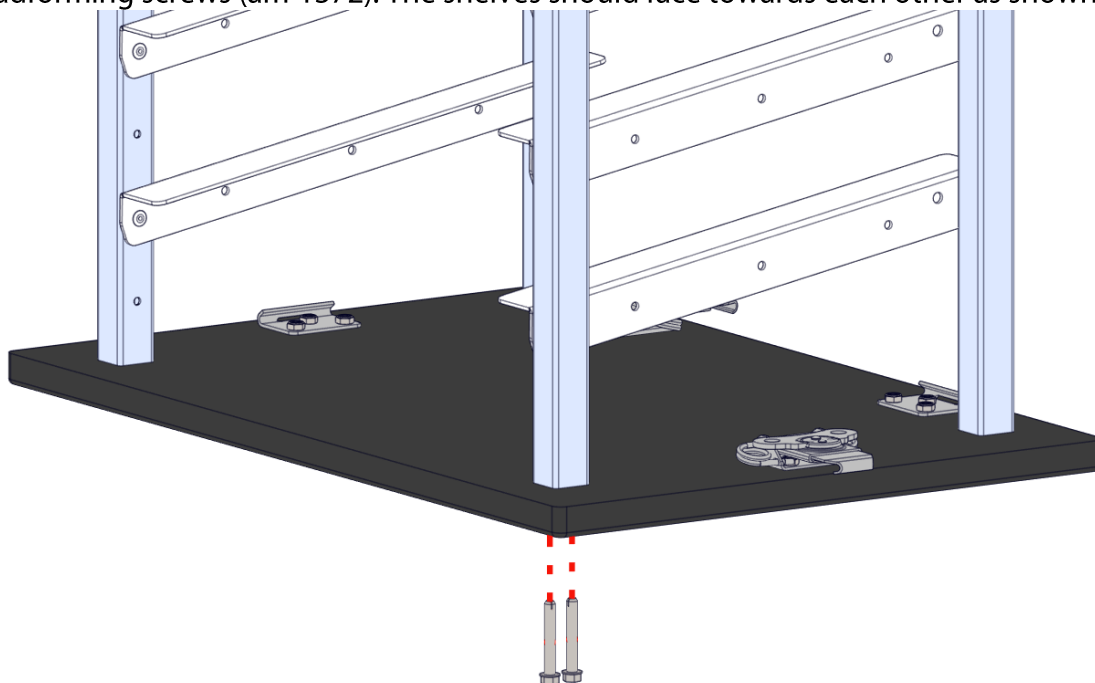
**Step 3** **OPTIONAL – FOR USE WITH MULTIPLE CARTS:**

Attach the Surface Latches (am-4973) to the underside of the Robot Parts Cart Top Plate (am-5230a\_top) using 10-32 0.75" Flat Head Cap Screws (am-1170) and 10-32 Nylock Jam Nuts (am-1102).



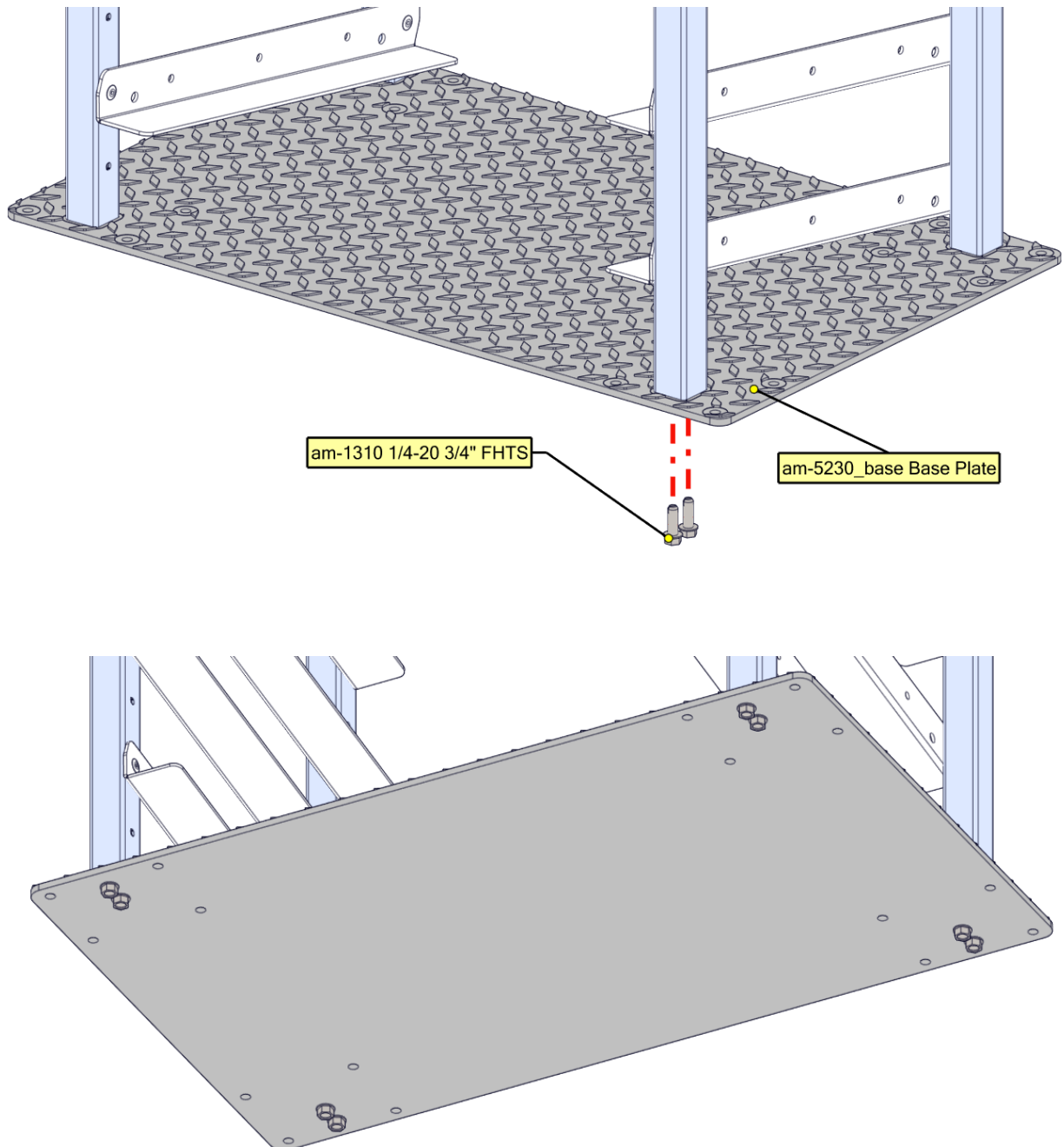
#### Step 4

Attach the assemblies from Step 2 to Top Plate (am-5320\_top) using eight 1/4-20 1-3/4" long Threadforming screws (am-1372). The shelves should face towards each other as shown.



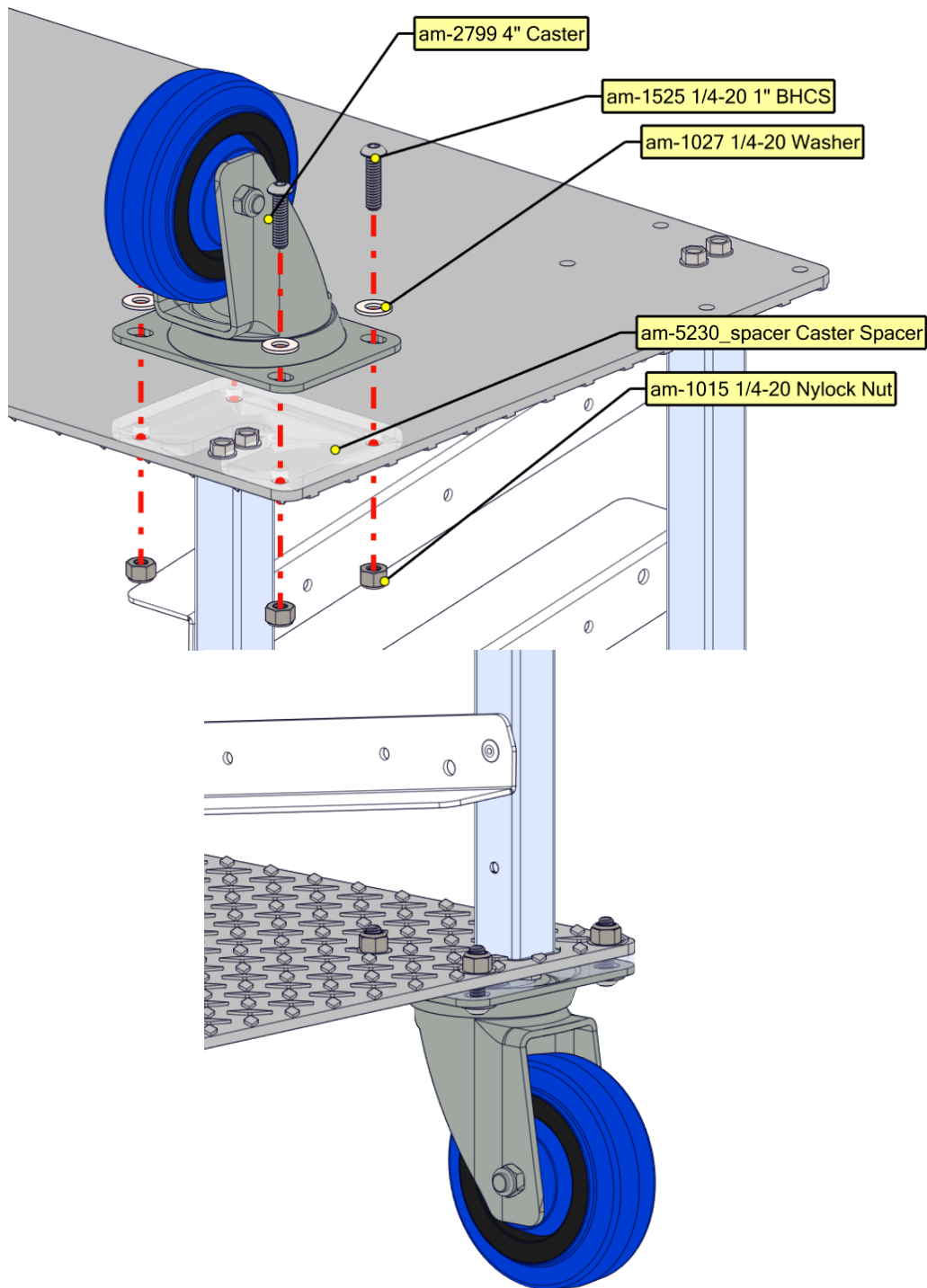
### Step 5

Attach the Base Plate (am-5320\_base) to the assembly using eight 1/4-20 3/4" Threadforming screws (am-1310). The tread pattern should face up towards the top of the assembly.



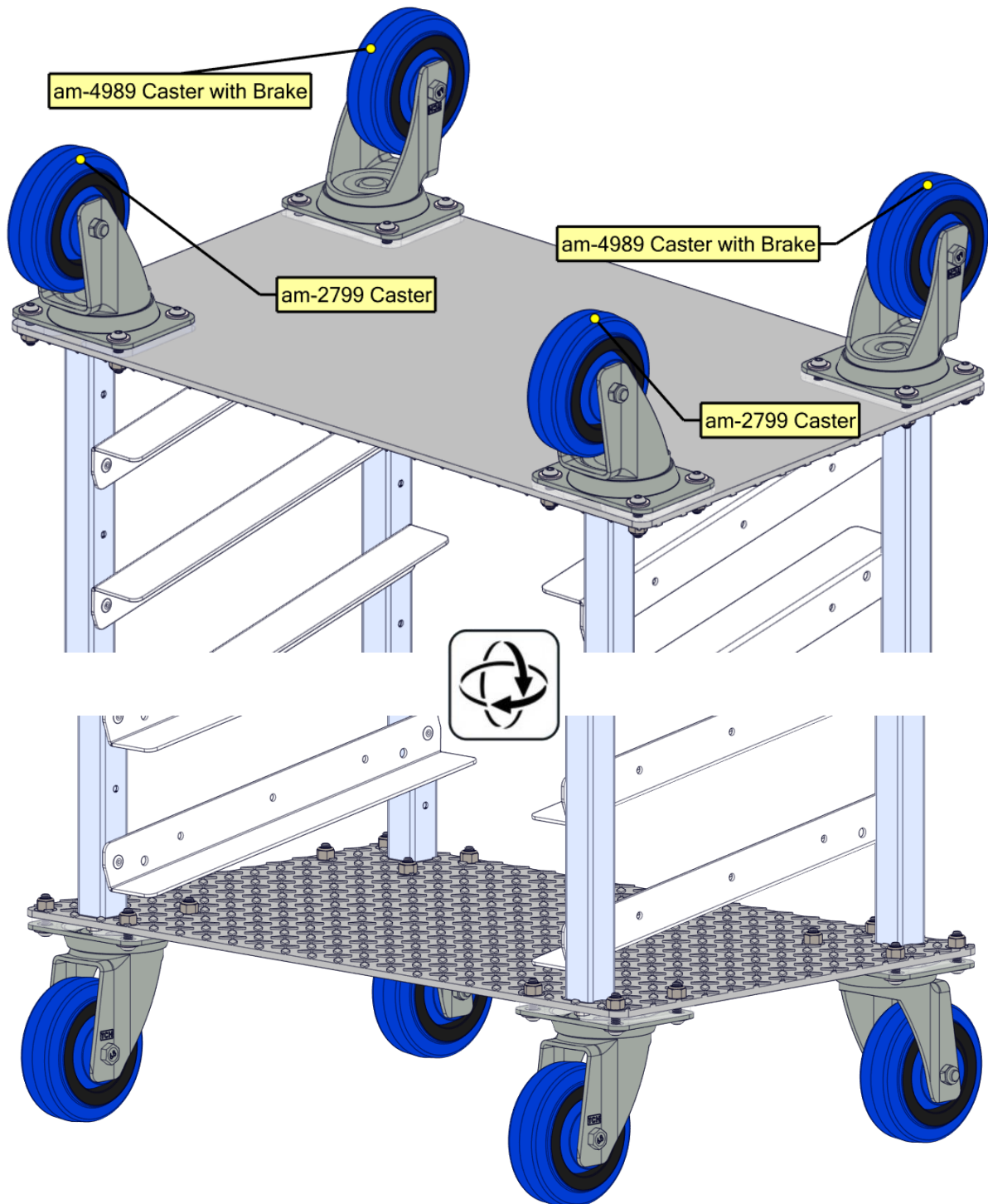
### Step 6

Attach a 4" Caster (am-2799) to one of the corners of the cart with the raised side of the shelves using four 1" 1/4-20 Button Head Cap Screws (am-1525), four 1/4" washers (am-1027), and four 1/4-20 nylock nuts (am-1015). Use a Caster Spacer (am-5230\_spacer) to properly space the Caster from the Base Plate, oriented as shown.



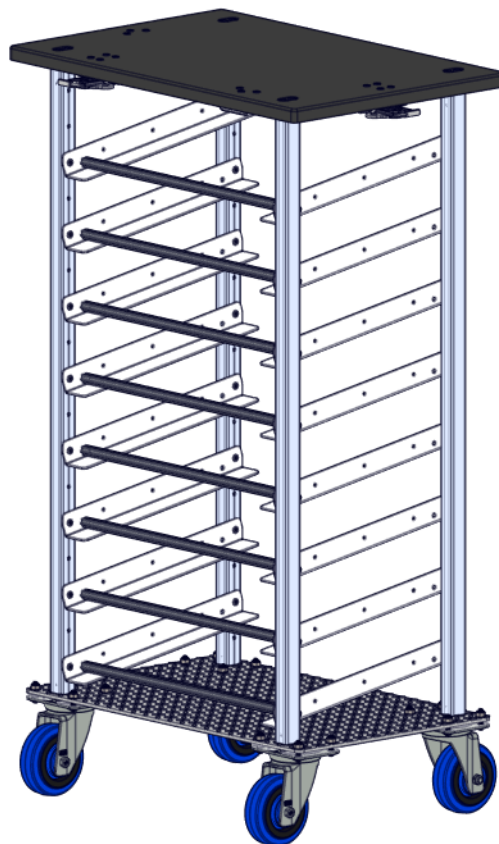
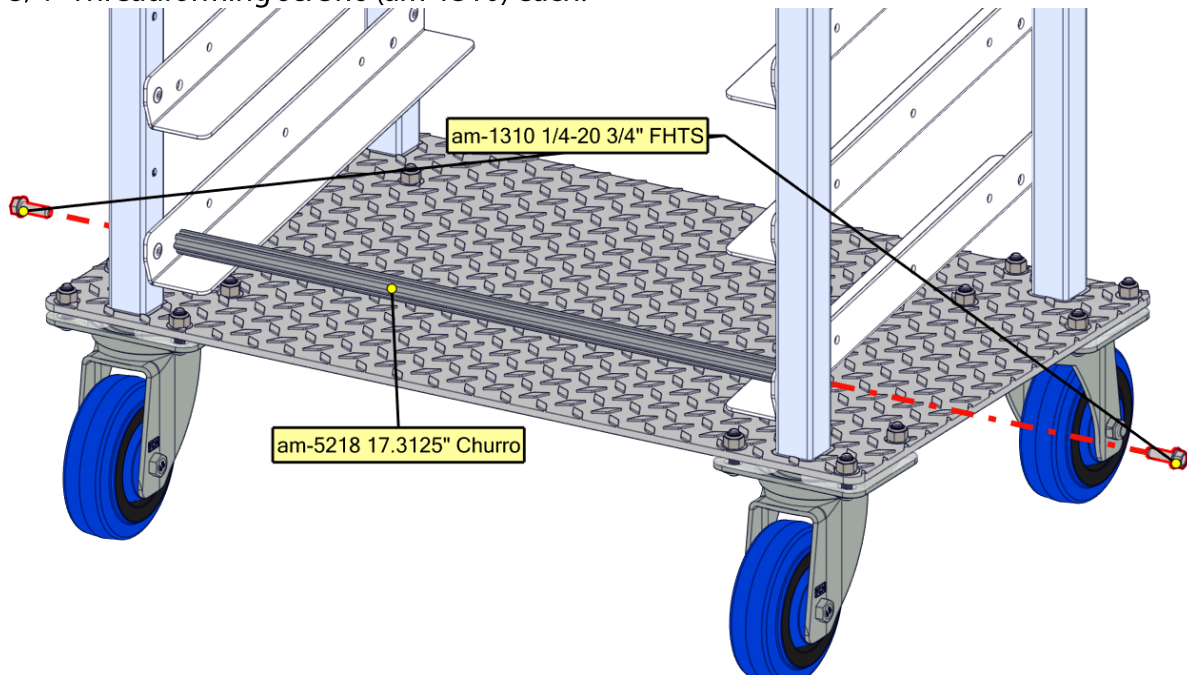
### Step 7

Repeat Step 5 with the three remaining Casters. Ensure the remaining Caster without a brake is placed on the side with the raised end of the shelving.



### Step 8

Between the shelf sides of the cart, insert Churros (am-5218) up the length of the cart on the lowered side of each shelf, one per shelf, for a total of 8 Churros. Fasten in place with two 1/4-20 3/4" Threadforming screws (am-1310) each.





**Step 9** **OPTIONAL – FOR USE WITH FRC BATTERIES.**

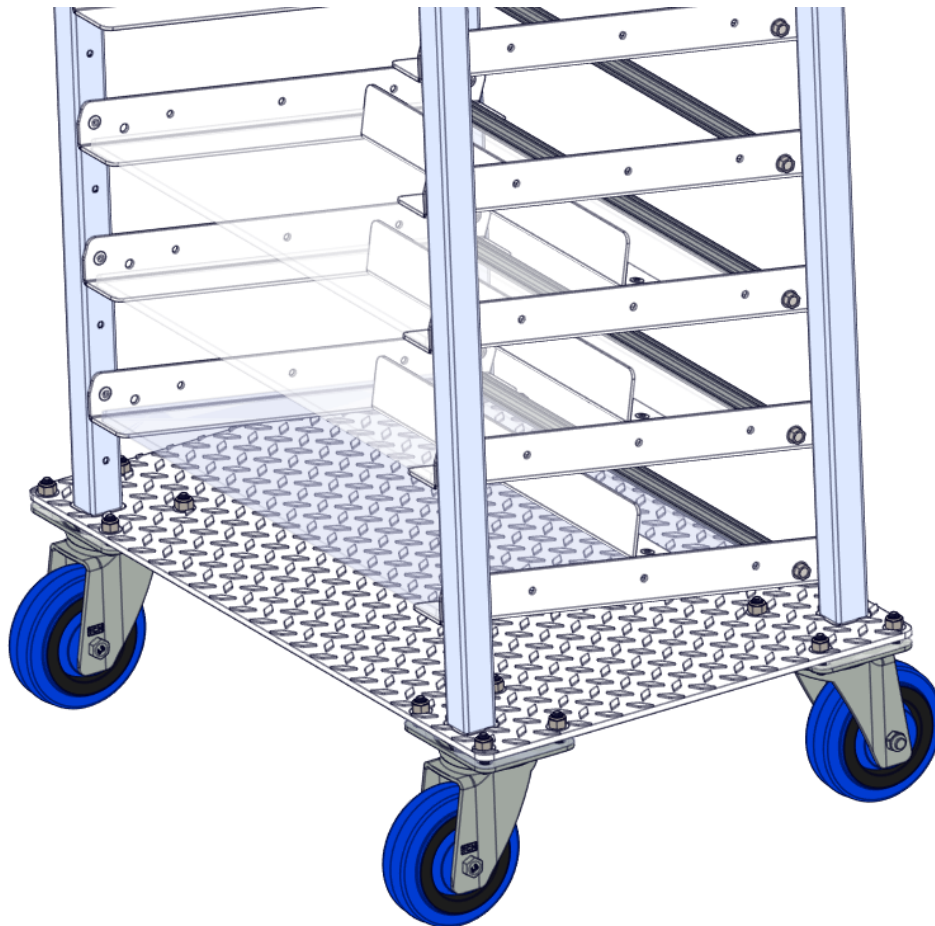
Assemble three battery shelves by attaching a Robot Parts Cart Shelf (am-5230\_shelf) to each Battery Tray (am-5230\_tray) with five rivets (am-1226). Slip each tray into the bottom three shelves of the cart.

am-5230\_tray Battery Tray Polycarbonate

am-5230\_shelf Robot Parts Cart Shelf

am-1226 Steel Rivet

**3X**



**Step 10** **OPTIONAL – FOR USE WITH NOCO BATTERY CHARGERS (AM-4968\_3 OR AM-5163\_3)**

Install NOCO Battery Chargers (not included) using two 10-32 5/8" Button Head Cap Screws (am-1549) and two 10-32 Nylock Nuts (am-1063) on the side of any shelf.

