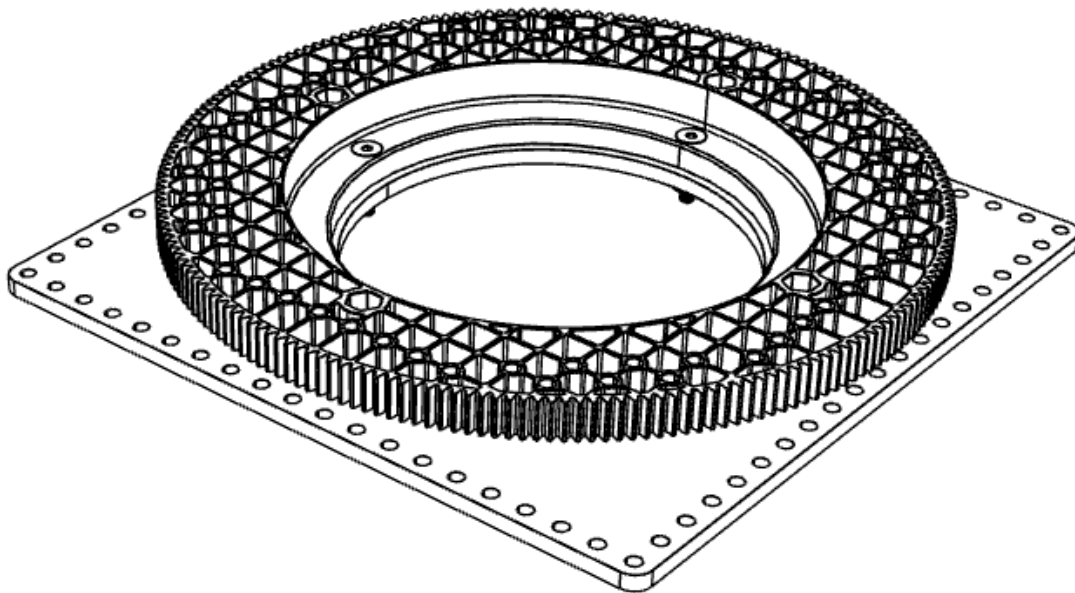




# ROBITS 5.5IN ID Turntable Assembly

(am-5470)

*Assembly Guide*



| Revision # | Date      | Author   | Purpose           |
|------------|-----------|----------|-------------------|
| 0          | 8/19/2026 | P. Yeung | Original Document |

Ethan Scime

8/24/26

Reviewer Name

Date Reviewed

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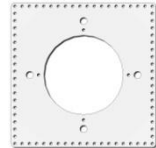
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## Parts & Tools

### Recommended Tools List

| Component          | Part #  | QTY | Photo                                                                               |
|--------------------|---------|-----|-------------------------------------------------------------------------------------|
| Fold Up 12 Set Hex | am-3864 | 1   |  |
| 3/8in Nut Driver   | am-3877 | 1   |  |

### ROBITS 5.5IN ID Turntable Assembly Parts List (am-5470)

| Component                        | Part #  | QTY | Photo                                                                                 |
|----------------------------------|---------|-----|---------------------------------------------------------------------------------------|
| ROBITS 200T 20 DP Turntable Gear | am-5038 | 1   |  |
| ROBITS Turntable Bearing         | am-5039 | 1   |  |
| ROBITS Turntable Mounting Plate  | am-5040 | 1   |  |
| 0.75" 10-32 Flat Head Screw      | am-1170 | 4   |  |
| 1.00" 10-32 Flat Head Screw      | am-1324 | 4   |  |

| Component                                                      | Part #     | QTY | Photo                                                                                 |
|----------------------------------------------------------------|------------|-----|---------------------------------------------------------------------------------------|
| 10-32 Nylock Jam Nut                                           | am-1063    | 11  |    |
| 0.50" 10-32 Socket Head Cap Screw                              | am-1002    | 3   |    |
| 0.75" 10-32 Socket Head Cap Screw                              | am-1047    | 7   |    |
| #10 Washer                                                     | am-1026    | 3   |    |
| 0.430 in. ID 0.500 in. OD<br>0.250 in. Long Aluminum<br>Spacer | am-1698    | 2   |   |
| ROBITS 50T 20 DP Gear                                          | am-5020_50 | 1   |  |
| 8mm M3 Socket Head Cap Screw                                   | am-1500    | 4   |  |
| ROBITS Motor Mount, Side 2<br>Hole                             | am-5012    | 1   |  |

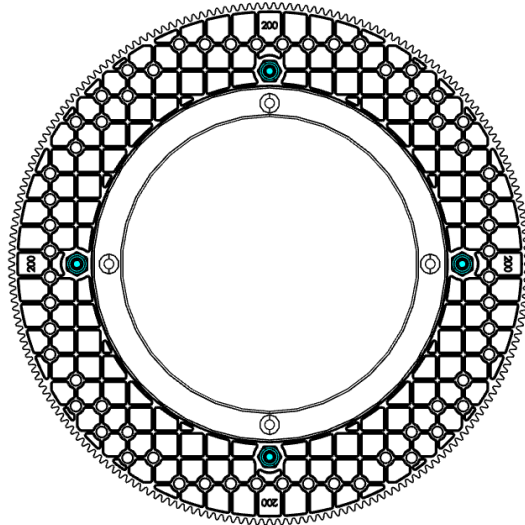
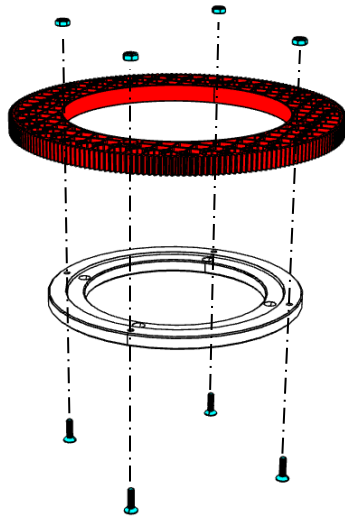
## Additional Components (Not Included)

| Component                 | Part #                        | QTY | Photo                                                                                 |
|---------------------------|-------------------------------|-----|---------------------------------------------------------------------------------------|
| 5 Turn Programmable Servo | am-5216(a) or<br>am-5217(a)   | 1   |    |
| Servo Adapter/Hub         | am-4957-0100<br>or<br>am-5439 | 1   |   |
| NeveRest Hex Motor        | various                       | 1   |  |

## Assembly – Base Assembly

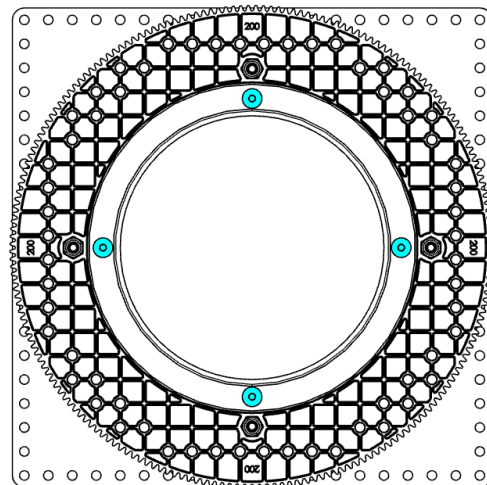
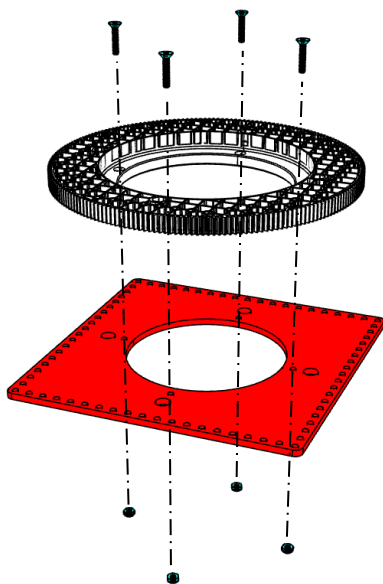
### Step 1

Insert [4] 0.75" 10-32 Flat Head Screws (am-1170) through the countersunk holes in the outer ring of the ROBITS Turntable Bearing (am-5039) and secure the 200T Turntable Gear (am-5038) using [4] 10-32 Nylock Jam Nuts (am-1063).



### Step 2

Insert [4] 1" 10-32 Flat Head Screws (am-1324) through the countersunk holes in the inner ring of the ROBITS Turntable Bearing and then through the ROBITS Turntable Mounting Plate (am-5040). Secure the assembly using [4] 10-32 Nylock Jam Nuts (am-1063).

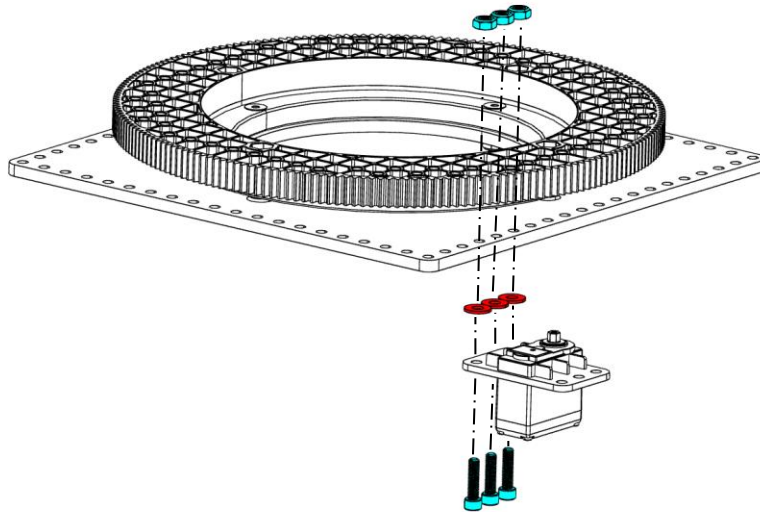


## Assembly – Servo Drive (Shaft)

### Step 1

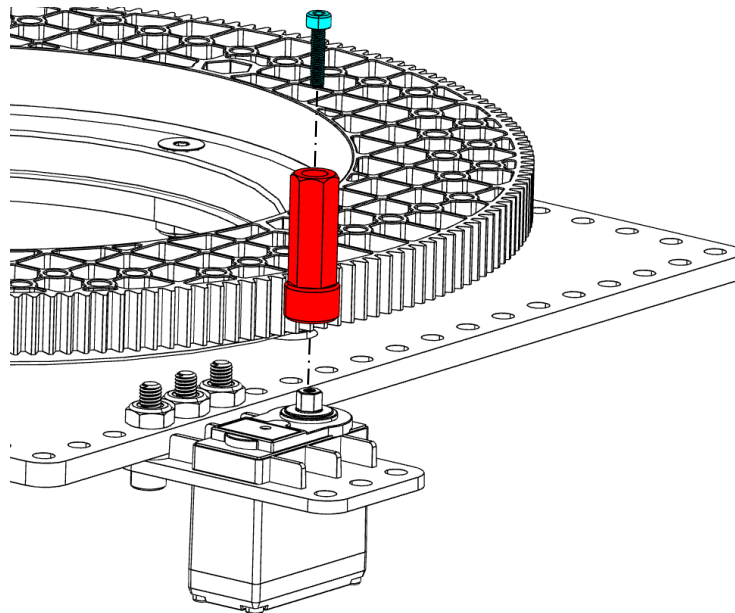
Fasten a 5 Turn AndyMark Programmable Servo to the mounting plate using [3] 0.75" 10-32 Socket Head Screws (am-1047), [3] #10 washers (am-1026), and [3] 10-32 Nylock Jam Nuts (am-1063).

**Note: The washers should be between the servo and the mounting plate.**



### Step 2

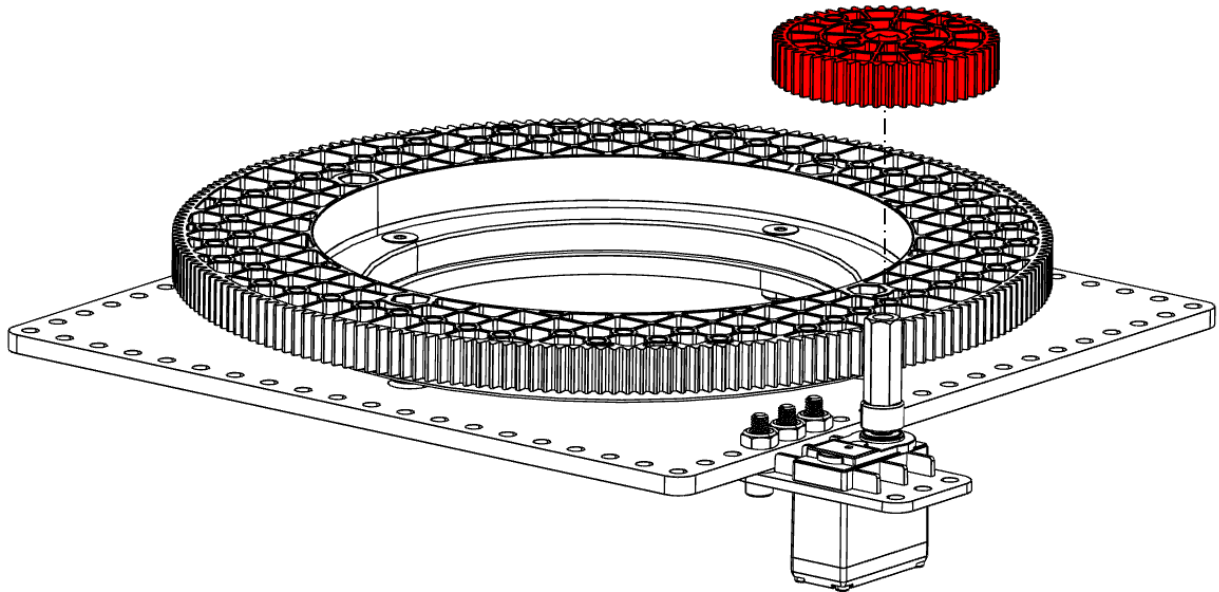
Connect a 3/8" Hex Adapter (am-4957-0100) to the servo and secure it with the included M3 Socket Head Cap Screw.





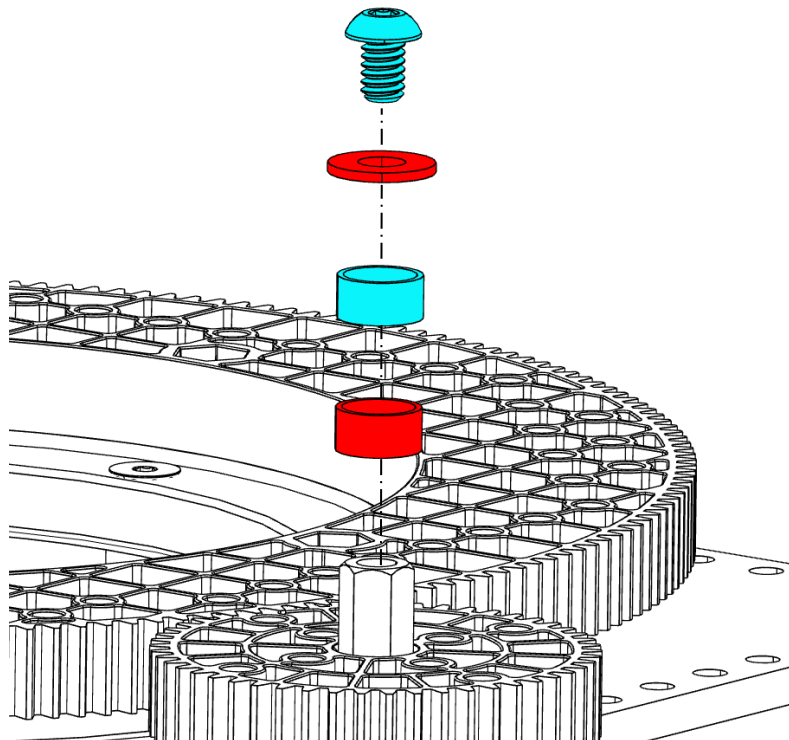
### Step 3

Insert [1] 50T Robits Gear (am-5020\_50) on the servo shaft and align with the turntable gear so that the gears mesh.



### Step 4

Retain the end of the servo shaft with [2] 1/4" Shaft Spacers (am-1698) and the 1/4-20 washer and screw included with the servo shaft adapter.

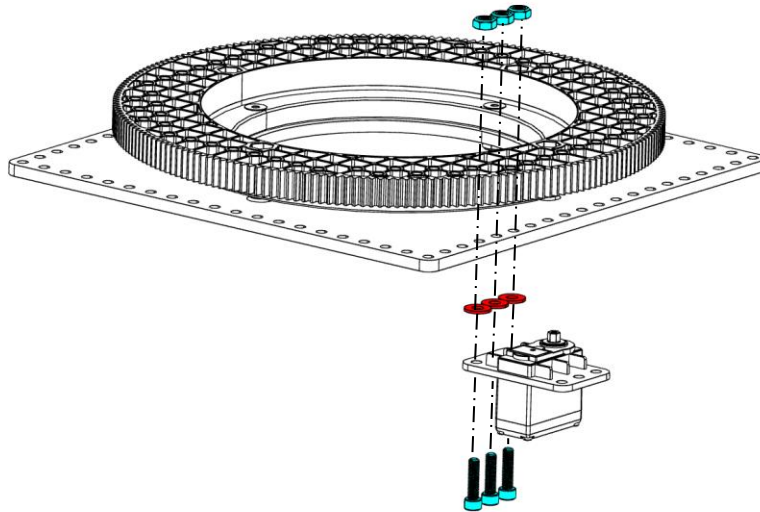


## Assembly – Servo Drive (Hub)

### Step 1

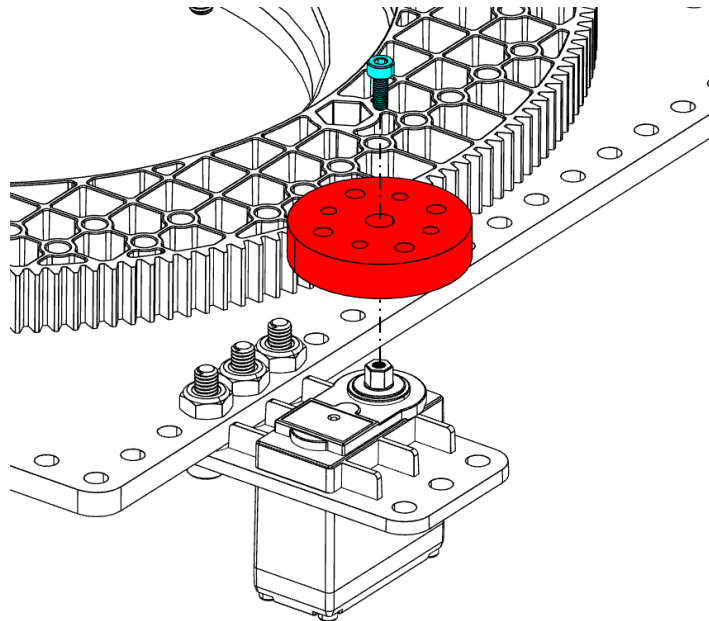
Fasten a 5 Turn AndyMark Programmable Servo to the mounting plate using [3] 0.75" 10-32 Socket Head Screws (am-1047), [3] #10 washers (am-1026), and [3] 10-32 Nylock Jam Nuts (am-1063).

**Note: The washers should be between the servo and the mounting plate.**



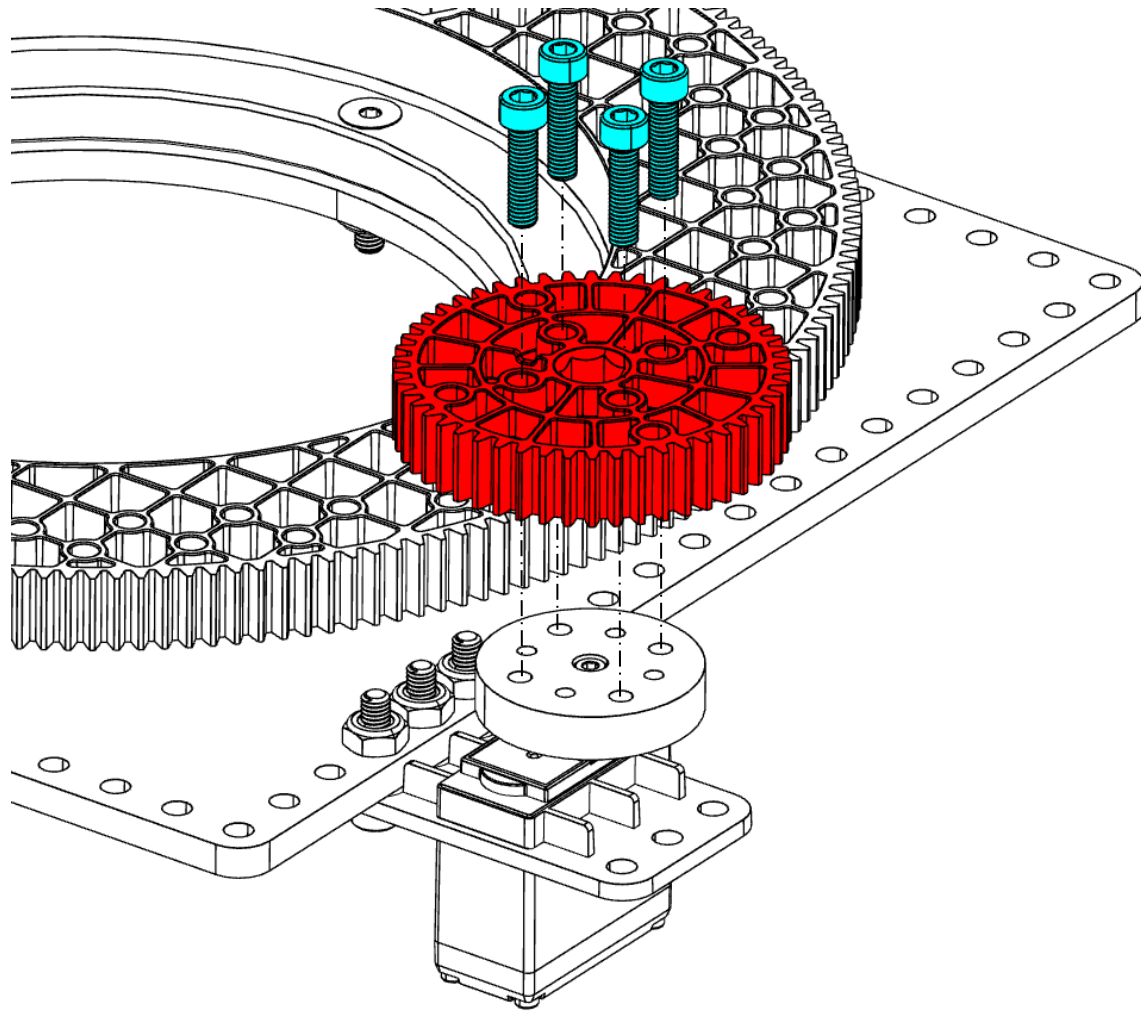
### Step 2

Connect a Servo Hub (am-5439) to the servo and secure it with [1] 8mm long M3 Socket Head Cap Screw.



### Step 3

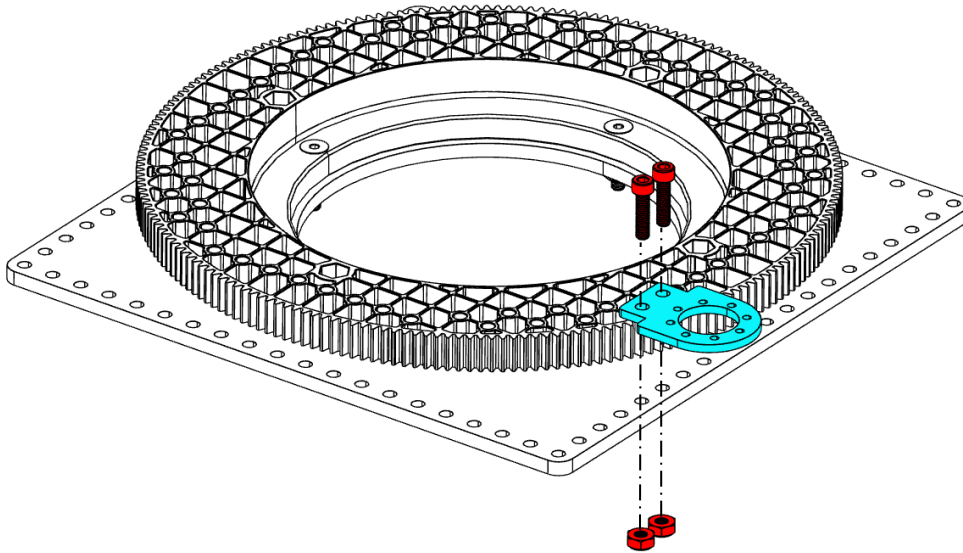
Align [1] 50T Robits Gear (am-5020\_50) on the servo hub so that it meshes with the turntable gear and fasten using [4] 0.75" 10-32 Socket Head Screws (am-1047).



## Assembly – Motor Drive (Bracket)

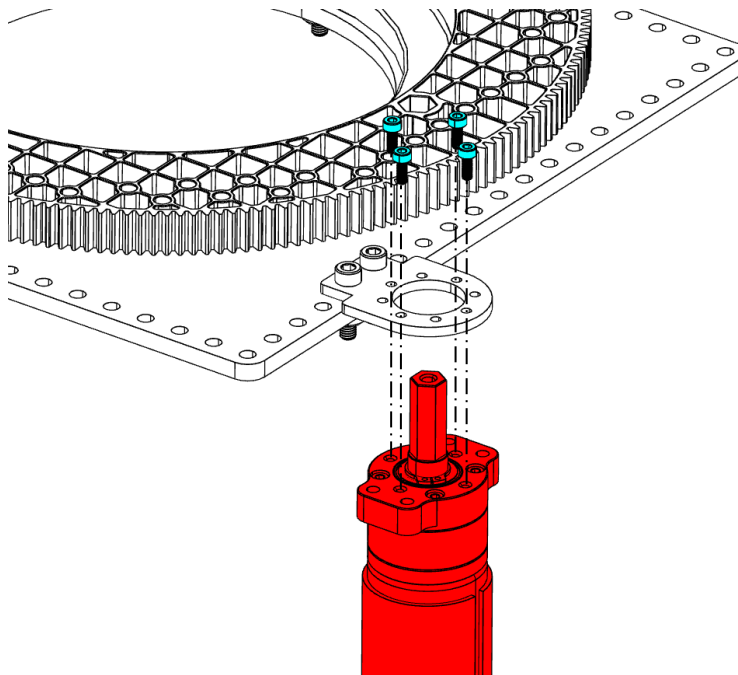
### Step 1

Fasten [1] Robits Motor Mount (am-5012) to the mounting plate using [2] 0.75" 10-32 Socket Head Screws (am-1047) and [2] 10-32 Nylock Jam Nuts (am-1063).



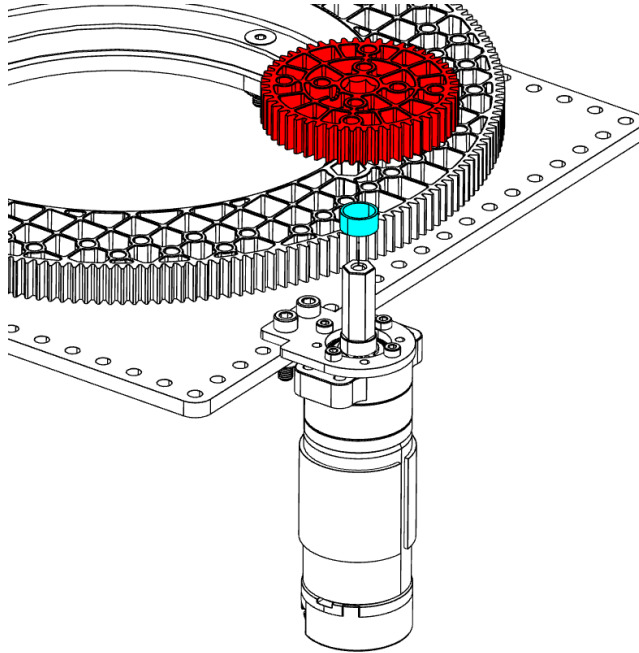
### Step 2

Fasten a NeveRest Hex Motor to the motor mount using [4] M3-8mm patched screws.



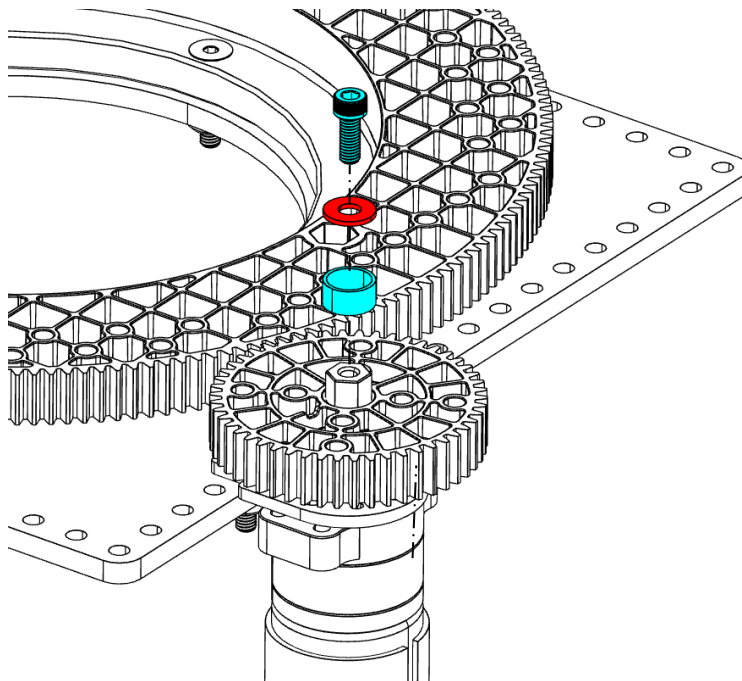
### Step 3

Insert [1] 50T Robits Gear (am-5020\_50) on to the motor shaft with [1] 1/4" Shaft Spacer (am-1698) and align with the turntable gear so that the gears mesh.



### Step 4

Retain the end of the motor shaft with [1] 1/4" Shaft Spacer (am-1698), [1] #10 washer (am-1026), and [1] 0.5" 10-32 Socket Head Cap Screw (am-1002).

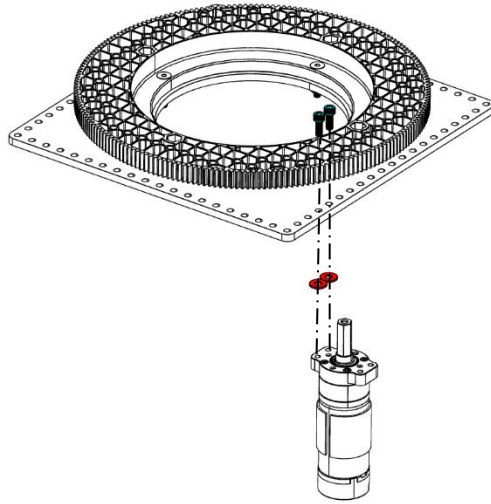


## Assembly – Motor Drive (Direct)

### Step 1

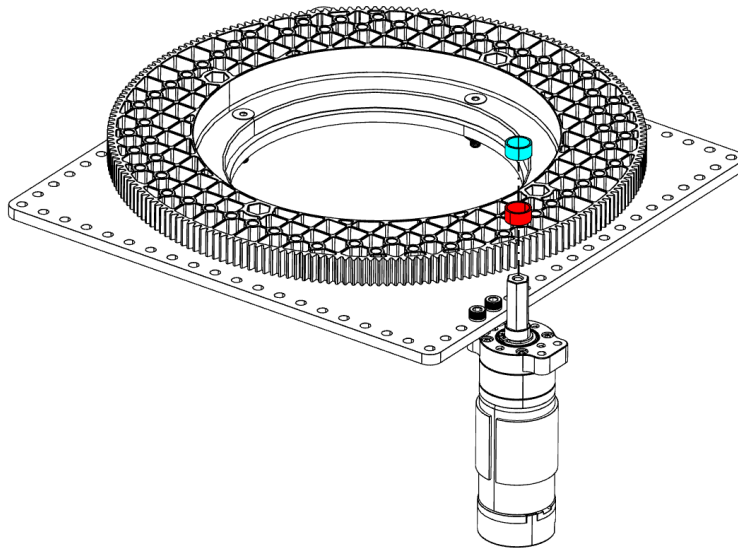
Fasten a NeveRest Hex Motor to the mounting plate using [2] 0.5" 10-32 Socket Head Screws (am-1002) and [2] #10 washers (am-1026).

**Note: The washers should be between the motor and the mounting plate.**



### Step 2

Install [2] 1/4" Shaft Spacers (am-1698) onto the motor shaft.



### Step 3

Insert [1] 50T Robits Gear (am-5020\_50) on to the motor shaft and align with the turntable gear so the gears mesh. Retain the end of the motor shaft with [1] #10 washer (am-1026) and [1] 0.5" 10-32 Socket Head Cap Screw (am-1002).

