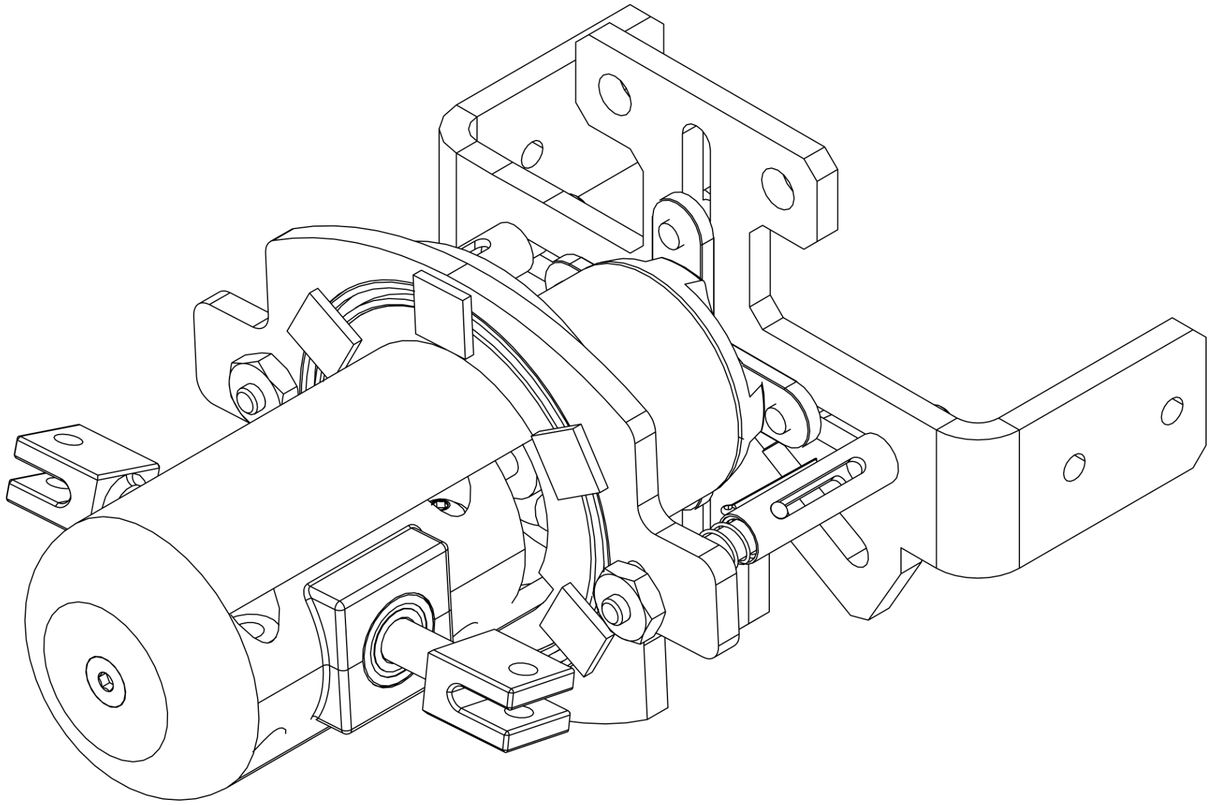
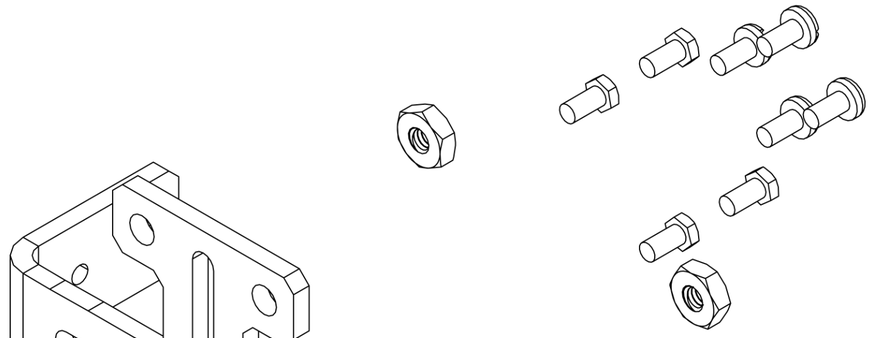
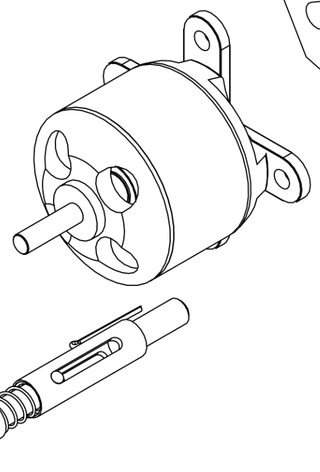
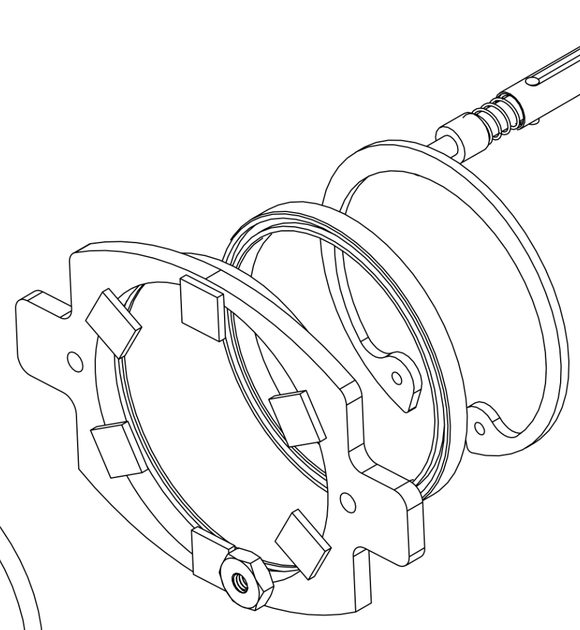
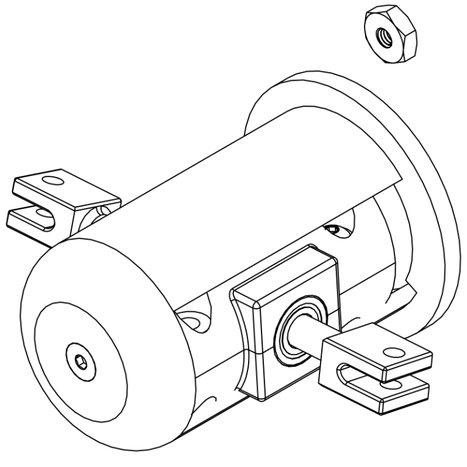








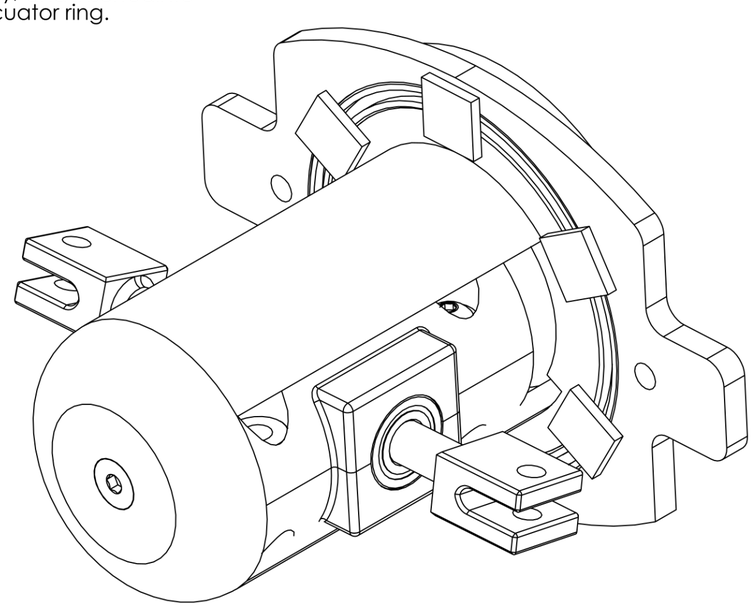


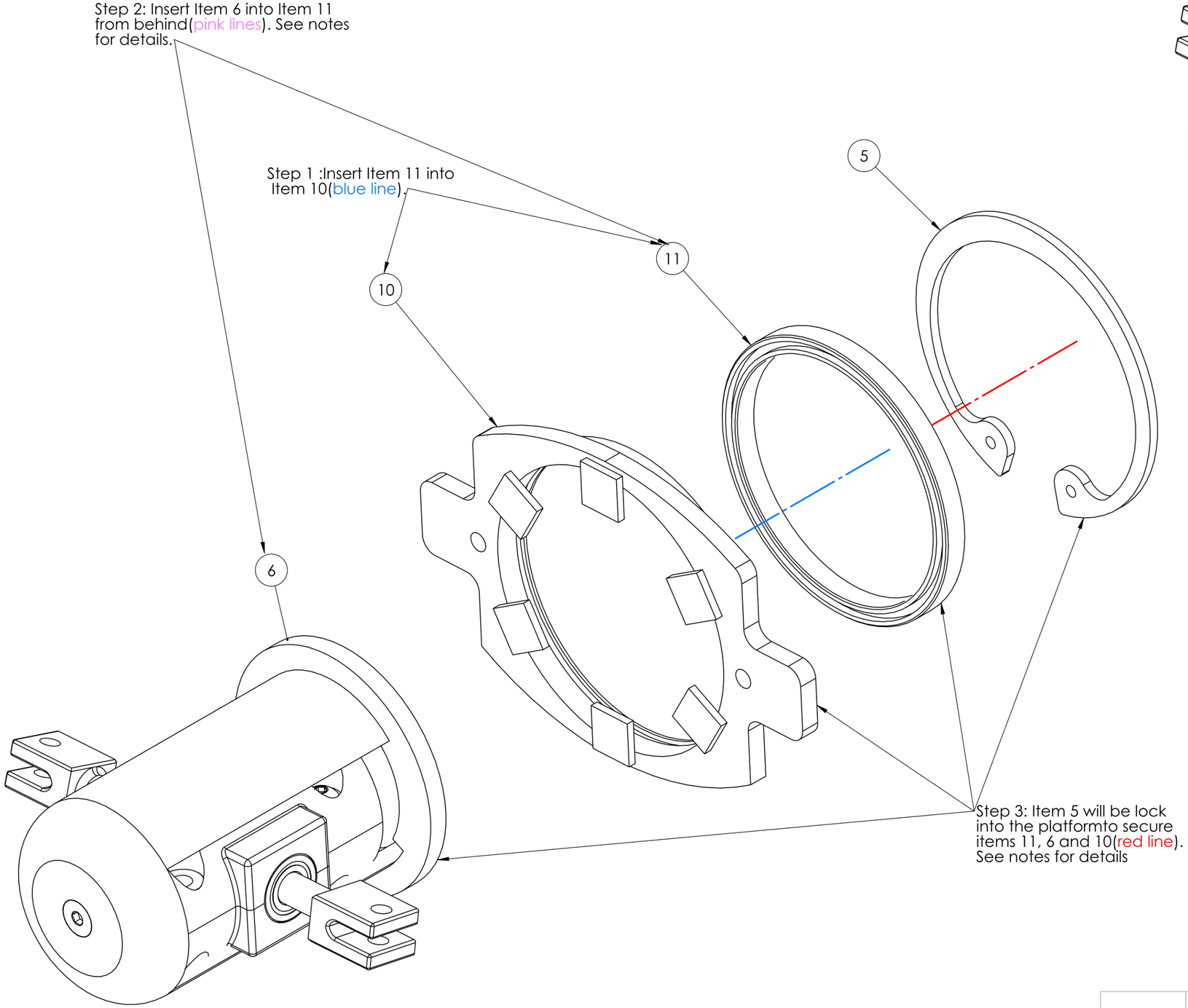
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	JP	03-06-25
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE: Small Completed Assembly

SIZE	DWG. NO.	REV
C	S.W.A.-01	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 4

Notes:
- The accuator ring and plunger cover can be easily separated because it is a snap on. The accuator ring needs to be separated from the hub assembly, and insertedinto the bearingand seated into the platform from the backside, and it will be locked in with item 5. Reassamble to the hub assembly(plunger cover) to the accuator ring.
- All parts in the part list being portrayed is in bold.
- The hex nut within Item 6 will be threaded onto the collett and the collet will have the motor shaft threaded directly into the collett.





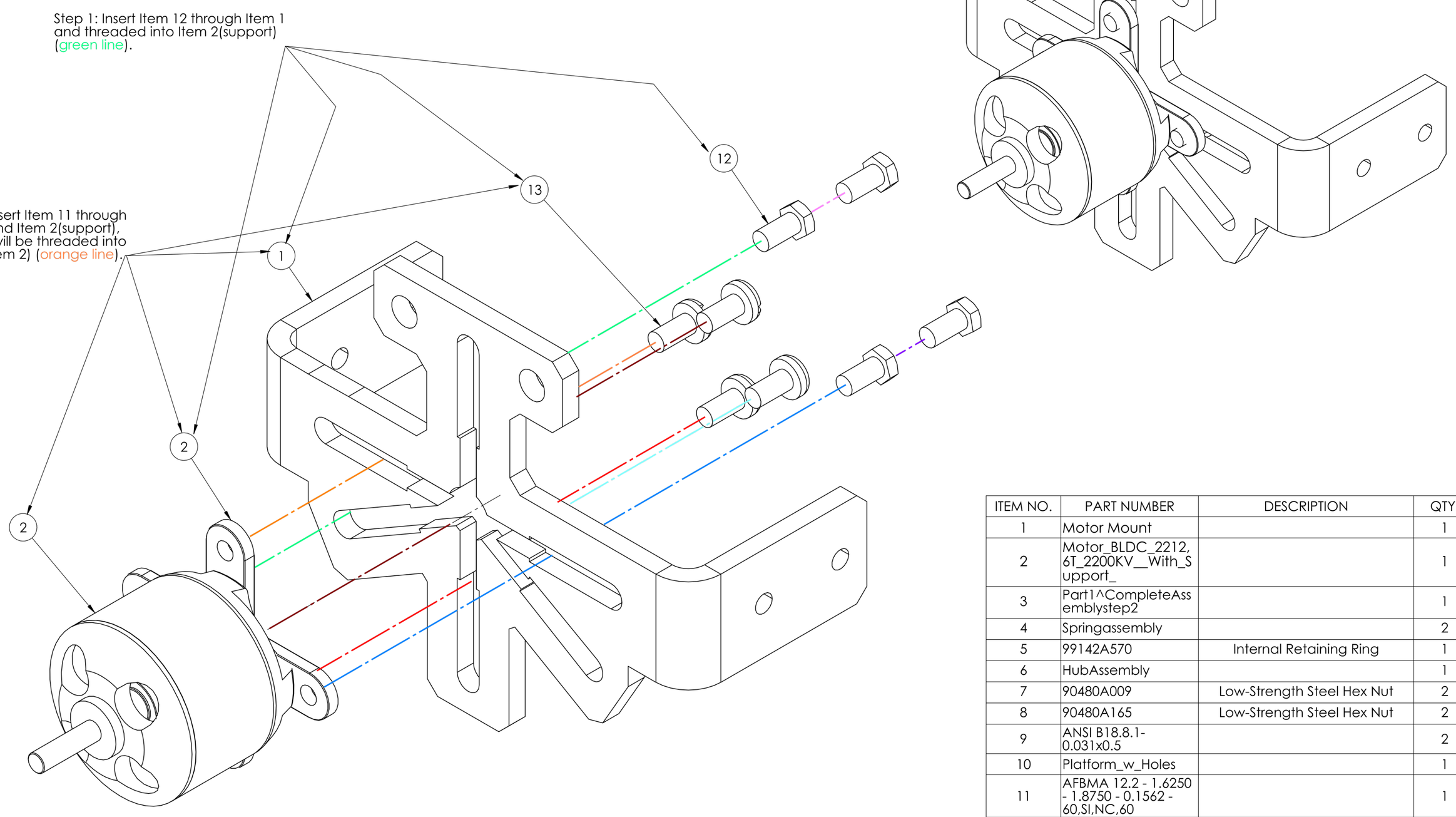
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Motor Mount		1
2	Motor_BLDC_2212,6T_2200KV__With_Support_		1
3	Part1^CompleteAssemblyStep1		1
4	Springassembly		2
5	99142A570	Internal Retaining Ring	1
6	HubAssembly		1
7	90480A009	Low-Strength Steel Hex Nut	2
8	90480A165	Low-Strength Steel Hex Nut	2
9	ANSI B18.8.1-0.031x0.5		2
10	Platform_w_Holes		1
11	AFBMA 12.2 - 1.6250 - 1.8750 - 0.1562 - 60,SI,NC,60		1
12	IN-HHMS 0.125-44x0.25x0.25-N		4
13	SL-PHMS 0.125-44x0.25x0.25-N		4

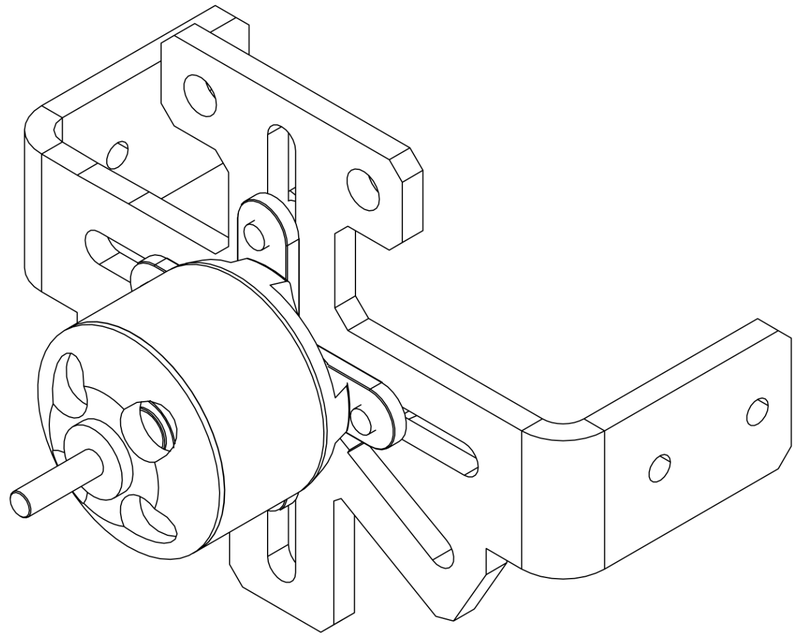
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL
FINISH
NEXT ASSY | USED ON
APPLICATION | DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JP	03-06-25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:
Small Assembly: Platform

SIZE	DWG. NO.	REV
C	S.W.A.-02	
SCALE: 1:2	WEIGHT:	SHEET 2 OF 4





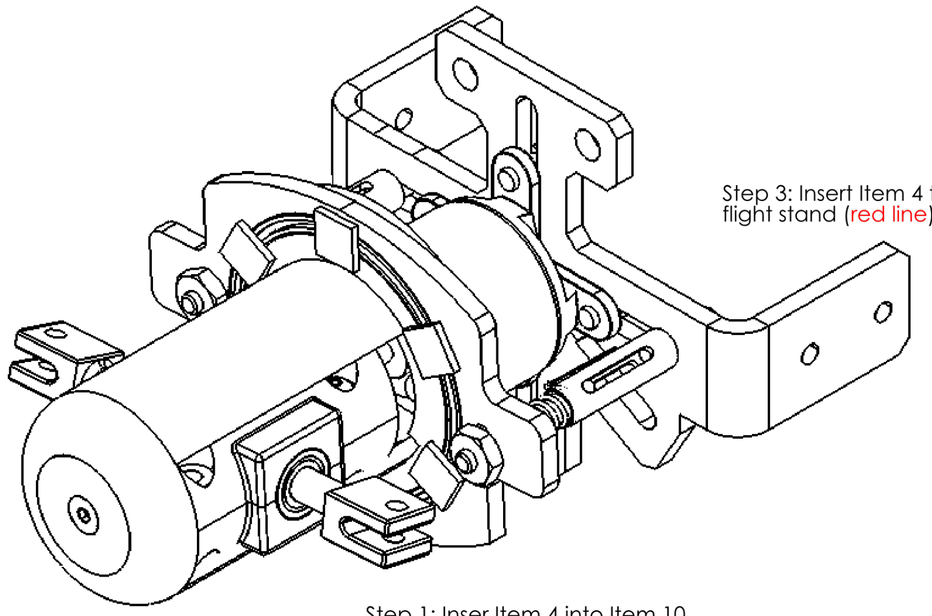
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Motor Mount		1
2	Motor_BLDC_2212, 6T_2200KV__With_Support_		1
3	Part1^CompleteAssemblystep2		1
4	Springassembly		2
5	99142A570	Internal Retaining Ring	1
6	HubAssembly		1
7	90480A009	Low-Strength Steel Hex Nut	2
8	90480A165	Low-Strength Steel Hex Nut	2
9	ANSI B18.8.1-0.031x0.5		2
10	Platform_w_Holes		1
11	AFBMA 12.2 - 1.6250 - 1.8750 - 0.1562 - 60,SI,NC,60		1
12	IN-HHMS 0.125-44x0.25x0.25-N		4
13	SL-PHMS 0.125-44x0.25x0.25-N		4

Notes:
- Steps will need to be repeated 3 additional times after the first iteration.
- Holes and lines are overlapping another, therefore, the motot support (Item 2) will be mounted the flight stand then secure the motor bracket.
- All Items in bold font in the parts list is in the drawing.

	NAME	DATE
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		
DRAWN	JP	03-06-25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:		
MATERIAL		
FINISH		
NEXT ASSY / USED ON		
APPLICATION / DO NOT SCALE DRAWING		

TITLE:
Small Assembly: Flight Stand

SIZE	DWG. NO.	REV
C	S.W.A.-03	
SCALE: 1:1	WEIGHT:	SHEET 3 OF 4

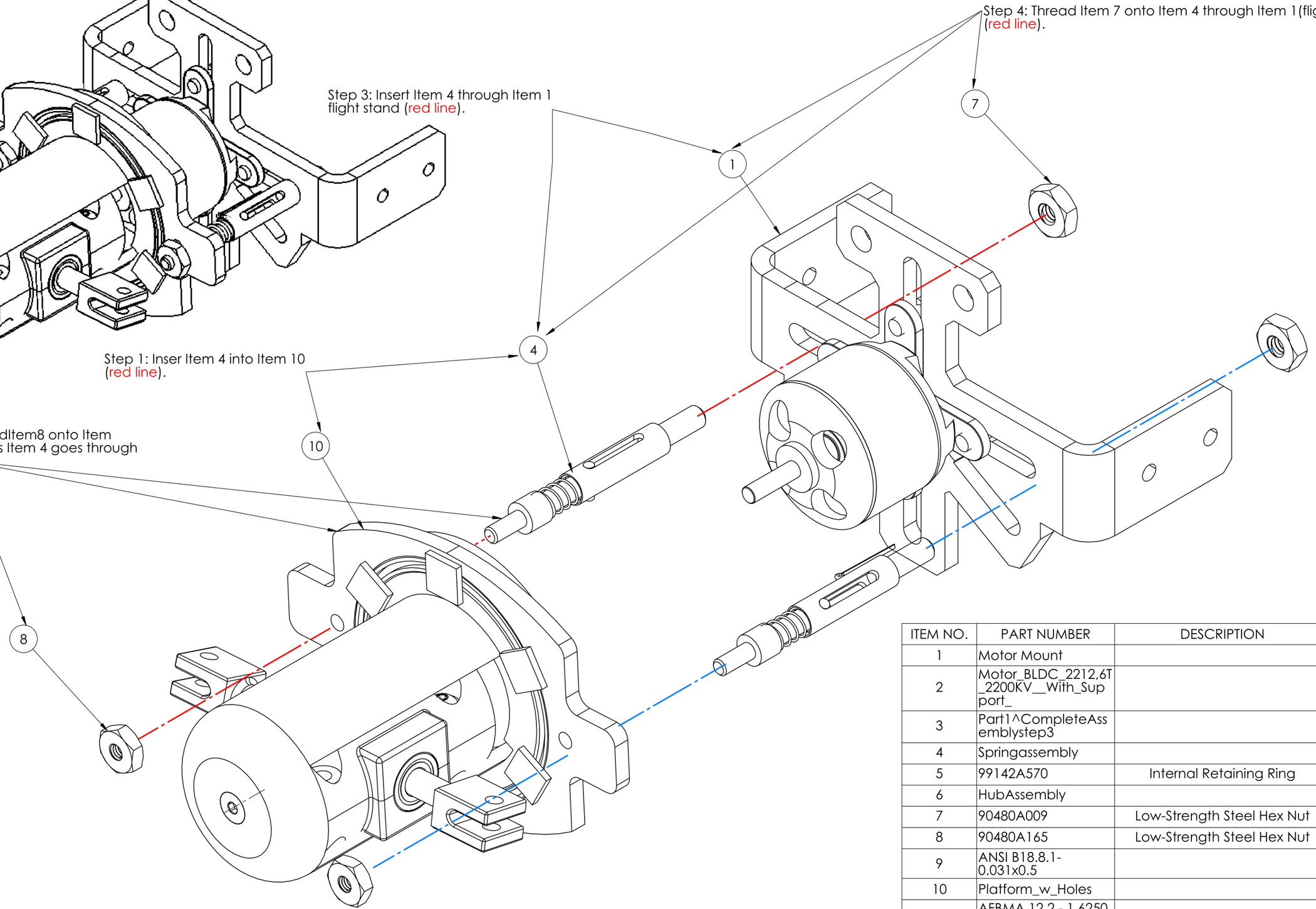


Step 3: Insert Item 4 through Item 1 flight stand (red line).

Step 4: Thread Item 7 onto Item 4 through Item 1(flight stand) (red line).

Step 1: Inser Item 4 into Item 10 (red line).

Step 2: ThreadItem8 onto Item 4(red line).As Item 4 goes through Item10.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Motor Mount		1
2	Motor_BLDC_2212,6T _2200KV__With_Sup port_		1
3	Part1^CompleteAss emblystep3		1
4	Springassembly		2
5	99142A570	Internal Retaining Ring	1
6	HubAssembly		1
7	90480A009	Low-Strength Steel Hex Nut	2
8	90480A165	Low-Strength Steel Hex Nut	2
9	ANSI B18.8.1-0.031x0.5		2
10	Platform_w_Holes		1
11	AFBMA 12.2 - 1.6250 - 1.8750 - 0.1562 - 60,SI,NC,60		1
12	IN-HHMS 0.125-44x0.25x0.25-N		4
13	SL-PHMS 0.125-44x0.25x0.25-N		4

Notes:
- All parts on parts list are present on the drawing.
- Another iteration will need to be completed for after completing all the steps
- The Collett in the Hub Assembly will be threaded on to the motor shaft.

	NAME	DATE
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	JP 03-06-25
	CHECKED	
	ENG APPR.	
	MFG APPR.	
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.	
MATERIAL	COMMENTS:	
FINISH		
NEXT ASSY / USED ON		
APPLICATION / DO NOT SCALE DRAWING		

TITLE:
Small Assembly: Spring Assembly

SIZE	DWG. NO.	REV
C	S.W.A.-04	
SCALE: 1:4	WEIGHT:	SHEET 4 OF 4