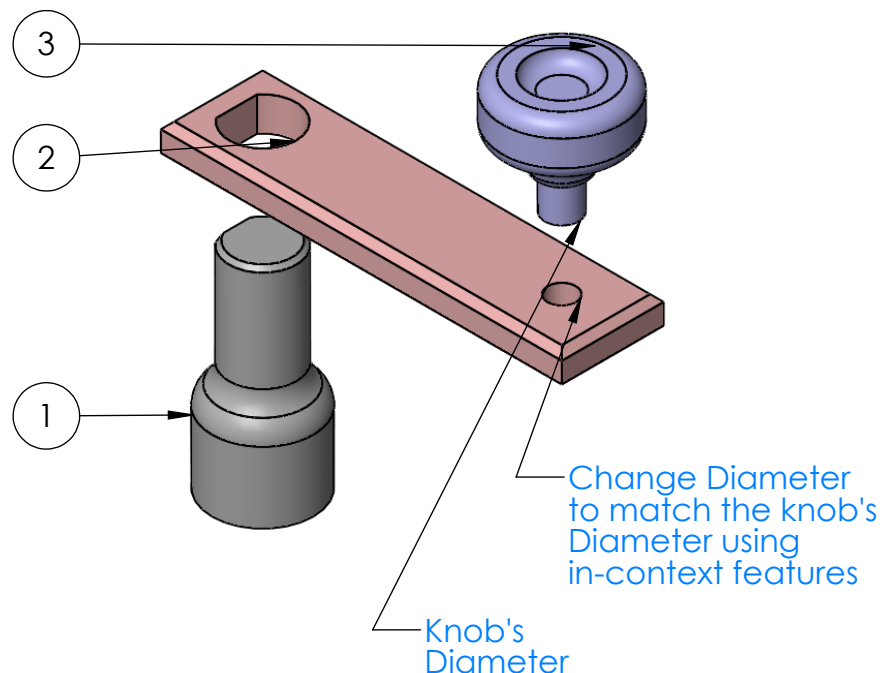
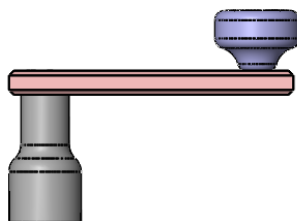


2

1

ITEM NO.	PART NUMBER	QTY.
1	crank shaft connector	1
2	arm	1
3	knob	1

Create the following assembly as use it as sub-assembly in the task next page.



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Ex 6.1</div> <div>Meaurements in inches</div>		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE <div>A</div>		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			DWG. NO.		
		MATERIAL	COMMENTS:	“O snail Climb Mount Fuji But slowly, slowly!” — Kobayashi Issa				
		FINISH						
NEXT ASSY	USED ON					REV		
APPLICATION		DO NOT SCALE DRAWING						
				SCALE: 1:2		WEIGHT:	SHEET 1 OF 6	

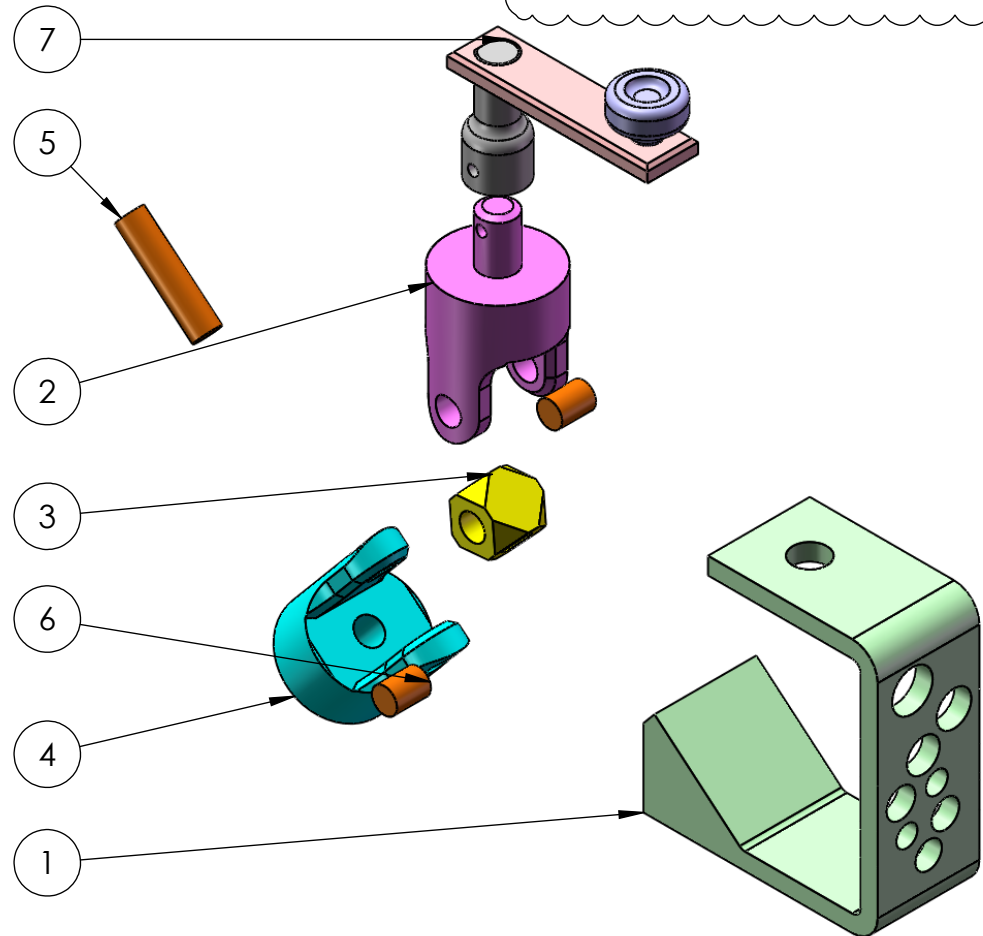
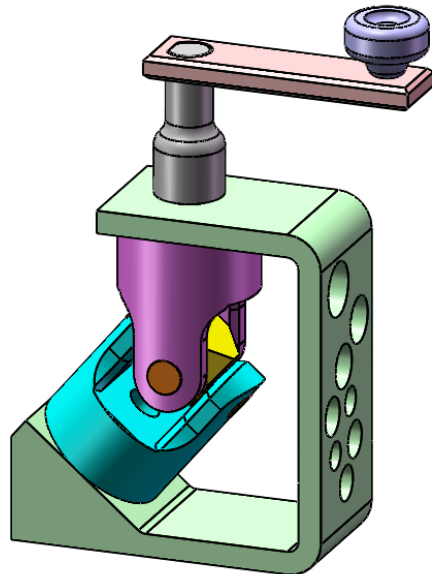
2

1

2

1

ITEM NO.	PART NUMBER	C1/QTY.
1	Bracket	1
2	Male Yoke	1
3	spider	1
4	Female Yoke	1
5	Pins (Configuration: Long)	1
6	Pins (Configuration: Short)	2
7	Crank Assembly	1



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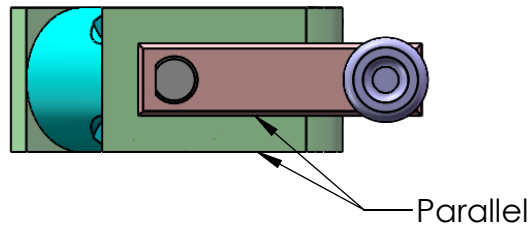
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		FRACTIONAL \pm	ENG APPR.			
		ANGULAR: MACH \pm BEND \pm	MFG APPR.			
		TWO PLACE DECIMAL \pm	Q.A.			
		THREE PLACE DECIMAL \pm	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				
			SIZE A	DWG. NO.	REV	
			SCALE: 1:2	WEIGHT:	SHEET 2 OF 6	

2

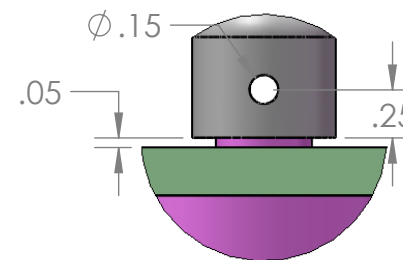
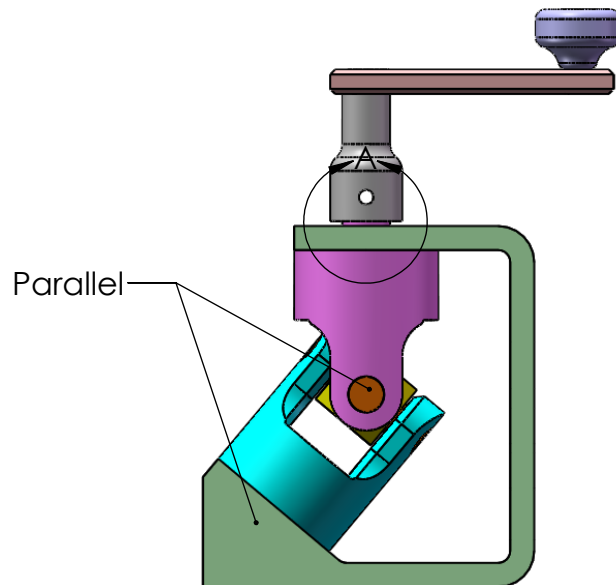
1

2

1



- Make the following hole as an assembly feature.
- Use the drilled hole to fix the crank shaft connector to the Male Yoke.



DETAIL A
SCALE 1 : 1

hint:

Set the parallel relations first to fix the model, then drill the hole. You can suppress those relations after fixing the crank shaft connector with the male yoke to simulate movements.

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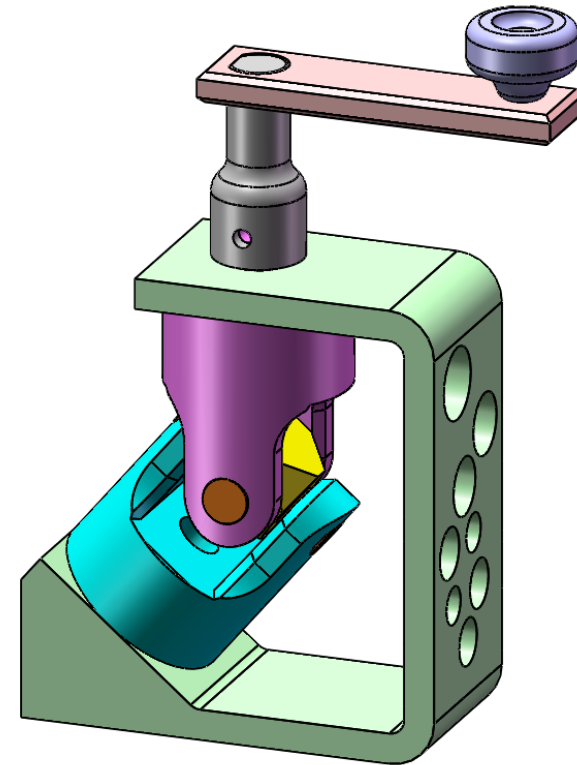
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			CHECKED						
			ENG APPR.						
			MFG APPR.						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV			
		MATERIAL	COMMENTS:						
NEXT ASSY	USED ON	FINISH				SCALE: 1:2 WEIGHT: SHEET 3 OF 6			
APPLICATION		DO NOT SCALE DRAWING							

2

1

Find out if there are any interfering parts:

- What are the parts?
- What is the interference volume in cubic inches?



Answer:

Interfering Parts:

- Crank Shaft Connector
- Arm

Interference Volume

= 0.000 67 cubic inches

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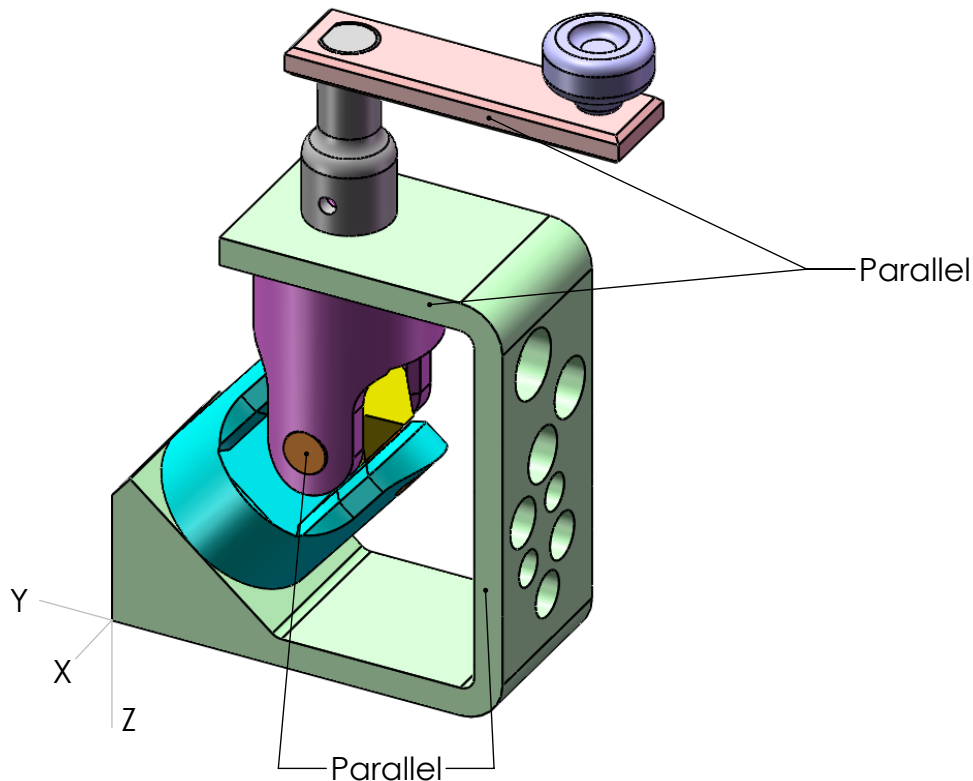
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		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE A	DWG. NO.	REV
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2	WEIGHT:	SHEET 4 OF 6
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING					

2

1

Find the Center of Mass in relation to the shown coordinate system in inches.



Answer:
Center of mass (inches)
X = - 0.75
Y = -1.75
Z = -2.13

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		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL ±	COMMENTS:			A		
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2 WEIGHT: SHEET 5 OF 6		
		MATERIAL						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING						

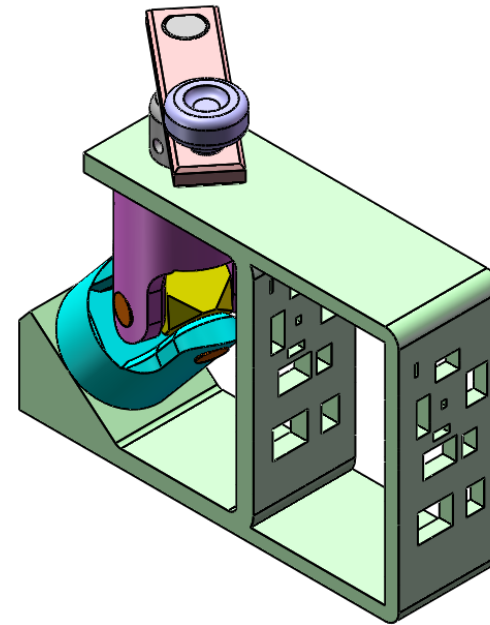
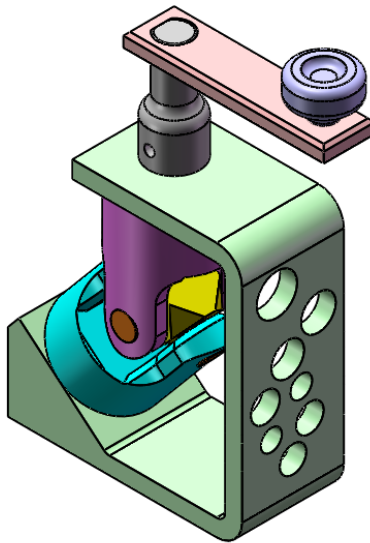
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1

2

1

Replace the Bracket with "Bracket_Updated"



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		TWO PLACE DECIMAL \pm	Q.A.			SIZE	DWG. NO.
		THREE PLACE DECIMAL \pm	COMMENTS:			A	REV
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2	WEIGHT:
		MATERIAL					SHEET 6 OF 6
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

2

1