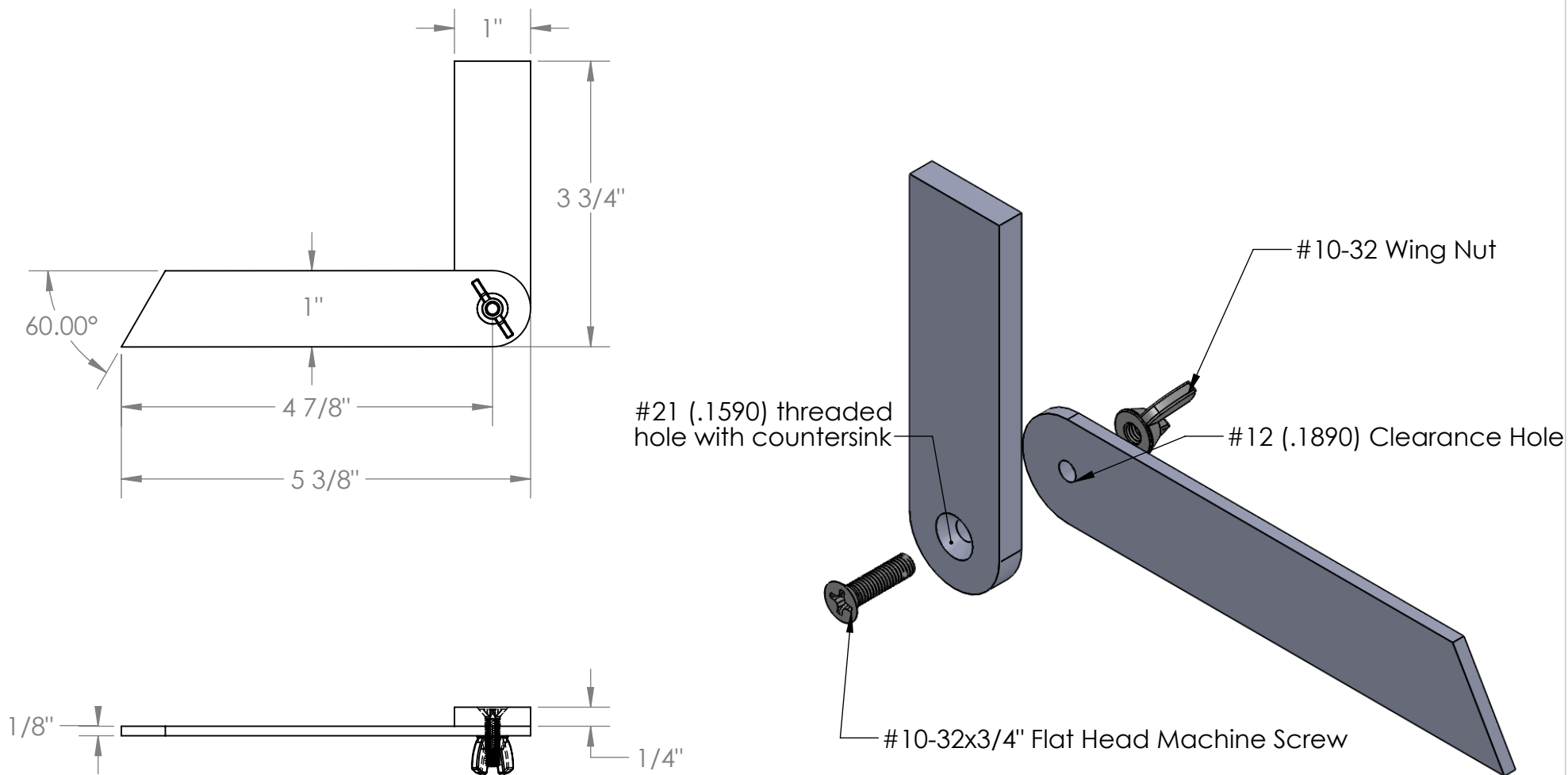


FFA Ag Mechanics State Finals 2018

Cold Metal Skills

Procedure:

You will be issued two pieces of aluminum flat bar: one piece of 1"x 1/8" and one piece of 1" x 1/4". Cut the parts to the length, layout the hole locations, drill and tap (where specified), and assemble the parts according to the drawings below. When finished, write your contestant number on both the project and this sheet and submit them to the judges.



Contestant No.
Name

**FFA Ag. Mechanics
State Finals 2018
Cold Metal Skills**

Score

Score Sheet

Points Possible	Points Earned
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Cutting/Finishing of Material

1/4" square end piece (Stock)

Length (subtract 2 pts. per 0.040" error)	6	
Squareness (subtract 2 pts. per 0.040" out of sq).	6	
Edge Rounding (-1 per side)	6	

1/8" angled piece (Blade)

Length (subtract 2 pts. per 0.040" error)	6	
Angle (60°) (subtract 1 pts. per degree off).	6	

Pieces properly deburred	5	
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Assembly

Correct location of fastener hole	6	
Correct selection of drill sizes. (-2 pts bit size)	6	
Depth of Countersink	4	
Angle	4	
Alignment	4	

Threading

Angle	4	
Alignment	4	
Line up for rounded end of pieces	5	
Alignment - Open	4	
Alignment - Closed	4	
Smoothness of Blade Rotation	5	
Assembled according to drawing	5	

Work habits

Safety glasses	5	
Proper use of tools	5	

Totals	100	
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