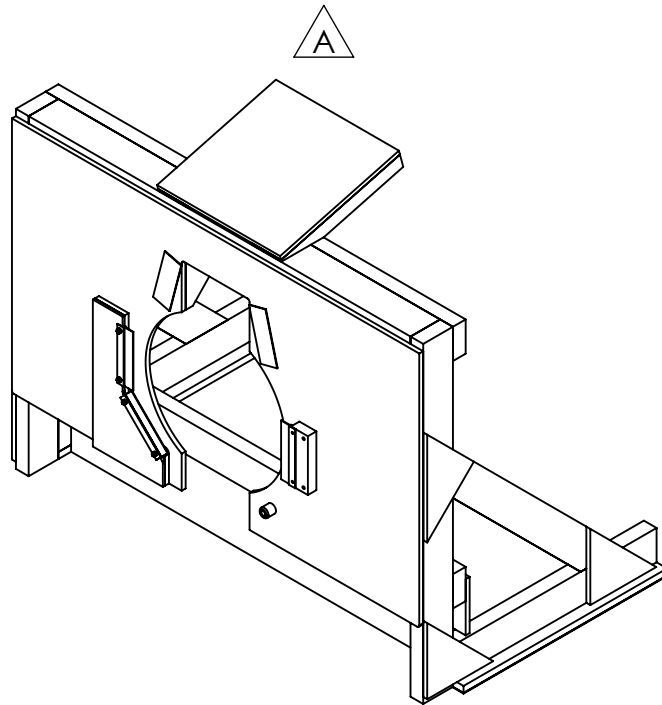


| REVISIONS | | | | |
|------------------------|------|--|-----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| B2, 2-B2, 13-B1, 15-B2 | A | Moved materials table to sheet 2. Updated dimensions of TE-19108-16 to more closely match field elements. Added sheet with modification instructions to make initial Rev perform as Rev A intends. | 1/30/2019 | |

This diagram shows the front panel assembly in an exploded view. The main front panel is a large rectangular piece. A top panel is shown being attached to the top edge. A central control panel, which includes a circular dial and a lever, is shown being inserted into a slot on the front panel. A bottom panel is shown being attached to the bottom edge. A small circular fastener is shown being inserted into a hole on the front panel.

A

B



B

| Material | QTY |
|---------------------------------|-----------------|
| Flat head 10-24 X0.625" | 4 |
| 15/32"(1/2") A/C or CDX Plywood | 1 sheet |
| 1/4" Hardboard | 1 (2'x4') sheet |
| 2"x 4"x 8' | 5.5 |
| Frost King C35PH | 1 |
| McMaster 9540K953 | 1 |
| Button Head 1/4"-20 x 1.25 | 1 |
| Nylock 1/4"-20 | 1 |
| Nylock 10-24 | 4 |
| Frost King door sweep | 1 |
| 2" Hook Fastener | 48" |
| 2" Vison Tape | 11" |
| 1.25" wood screws | ~90 |
| 2.5" wood screws | ~40 |

A

A

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| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN INCHES |
| | | TOLERANCES: |
| | | FRACTIONAL $\pm 1/16$ |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |
| | | TWO PLACE DECIMAL $\pm .01$ |
| | | THREE PLACE DECIMAL $\pm .001$ |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| NEXT ASSY | USED ON | FINISH |
| APPLICATION | | DO NOT SCALE DRAWING |

| | NAME | DATE |
|-----------|------|------|
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |



TITLE:

Loading Station

| SIZE | DWG. NO. | REV |
|-------------|-----------------|---------------|
| A | TE-19108 | A |
| SCALE: 1:16 | | WEIGHT: |
| | | SHEET 2 OF 15 |

2

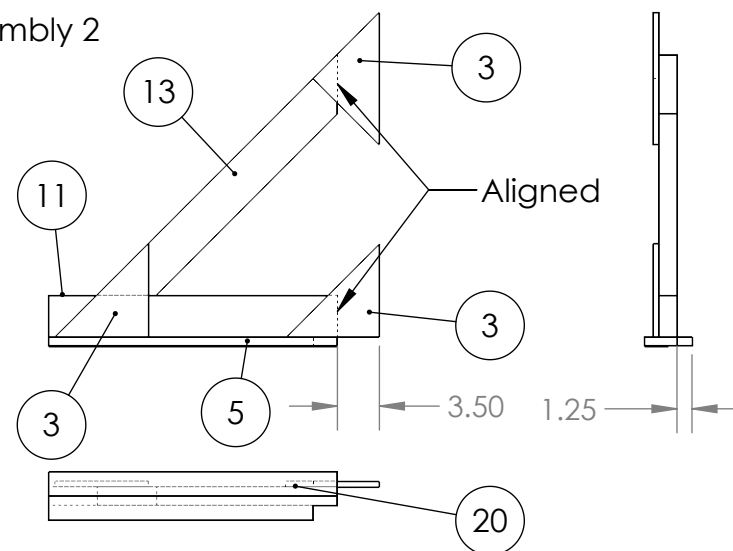
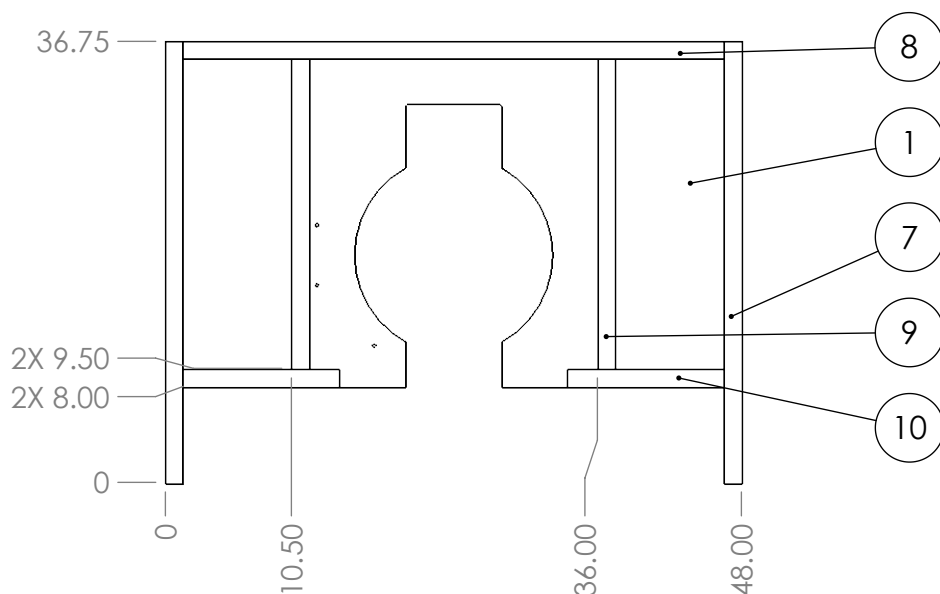
1

2

1

Subassembly 1

Subassembly 2



Note:

- Attach 9 10 7 8 together to make a frame. Use 2.5" screws to attach.

- Attach 1 to the frame flush to 7 and 10. Use 1.25" screws.

- Pre-drill as necessary

Note:

- Attach 13 to 11 with 2.5" screws. Reinforce with 3.

- Attach two more 3 as shown using 1.25" screws.

- Attach 20 as shown with 1.25" screws. Apply 20 to bottom.

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| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE |
| | | DIMENSIONS ARE IN INCHES | | DRAWN | |
| | | TOLERANCES: | | CHECKED | |
| | | FRACTIONAL $\pm 1/16$ | | ENG APPR. | |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ | | MFG APPR. | |
| | | TWO PLACE DECIMAL $\pm .01$ | | Q.A. | |
| | | THREE PLACE DECIMAL $\pm .001$ | | COMMENTS: | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | |
| | | MATERIAL | | | |
| | | FINISH | | | |
| NEXT ASSY | USED ON | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |



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TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

A

SCALE: 1:16 WEIGHT:

SHEET 3 OF 15

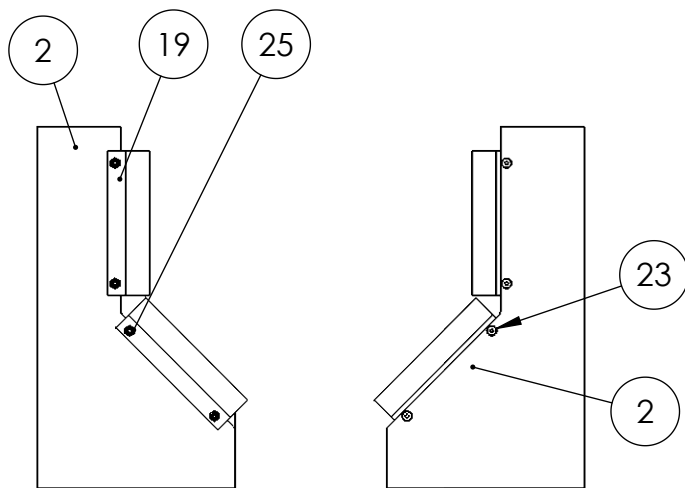
2

1

2

1

B



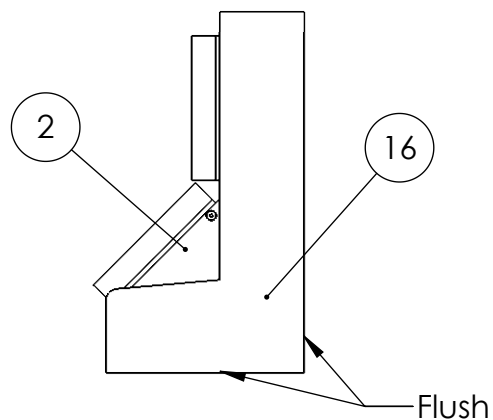
Front

Back

Note:

Attach (19) to (2) with (23) and (25).

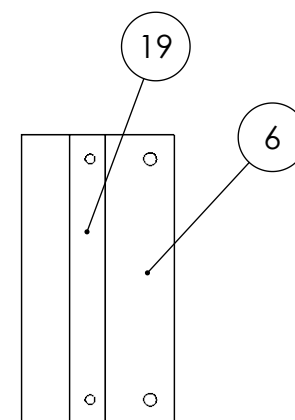
Subassembly 3:



Note:

- Attach (16) to the back of (2) flush on indicated edges.
- Use 1.25" screws, but do not screw in all the way.

Subassembly 4:



Note:

Attach (19) to (6) with 1.25" screws

B

A

A

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|-------------|---------|--|-----------|------|------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE |
| | | DIMENSIONS ARE IN INCHES | DRAWN | | |
| | | TOLERANCES: | CHECKED | | |
| | | FRACTIONAL $\pm 1/16$ | ENG APPR. | | |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ | MFG APPR. | | |
| | | TWO PLACE DECIMAL $\pm .01$ | Q.A. | | |
| | | THREE PLACE DECIMAL $\pm .001$ | COMMENTS: | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | |
| | | MATERIAL | | | |
| NEXT ASSY | USED ON | FINISH | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |



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COMPETITION

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TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

A

SCALE: 1:16 WEIGHT:

SHEET 4 OF 15

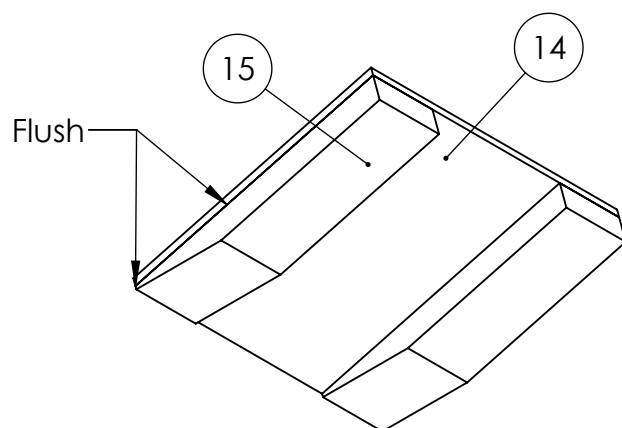
2

1

2

1

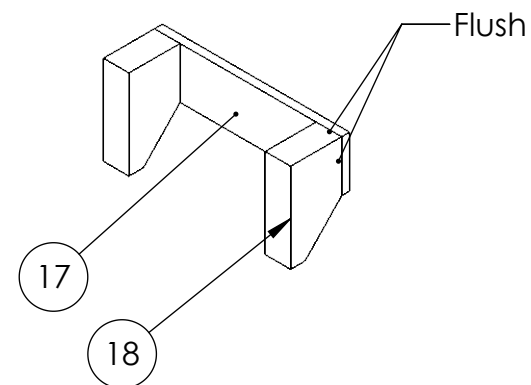
Subassembly 5:



Note:

- Attach (14) to (15) with 1.25" screws.
- Keep flush at indicated edges.

Subassembly 6:



Note:

- Attach (17) to (18) with 1.25" screws
- Keep flush at indicated edges.

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .001$

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

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CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



FIRST
ROBOTICS
COMPETITION

SOLIDWORKS
Modeling Solutions Partner

TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

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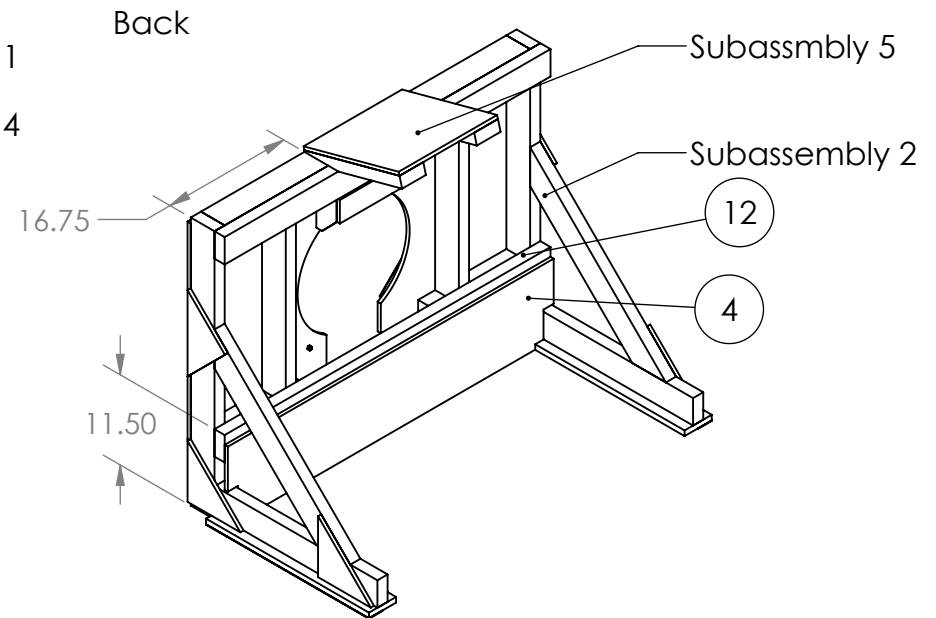
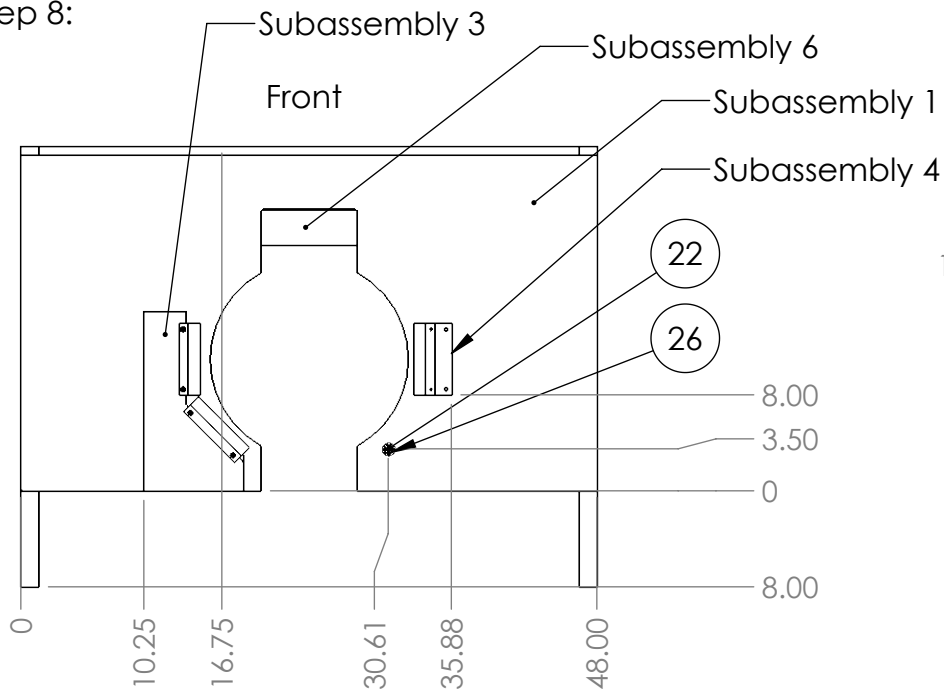
SCALE: 1:16 WEIGHT:

SHEET 5 OF 15

2

1

Step 8:



Note:

- Attach Subassembly 3 to Subassembly 1 using 1.25" screws.
- Attach Subassembly 4 to Subassembly 6 using 1.25" screws.
- Attach Subassembly 6 using 2.5" screws. Keep sides and top flush to opening.

Notes:

- Attach Subassembly 2 to the sides of Subassembly 1.
- Attach Subassembly 5 as shown. Use 2.5" screws to attach.
- Attach (12) using 2.5" screws.
- Attach (4) to (12) using 1.25" screws

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| | | DIMENSIONS ARE IN INCHES | | DRAWN | |
| | | TOLERANCES: | | CHECKED | |
| | | FRACTIONAL $\pm 1/16$ | | ENG APPR. | |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ | | MFG APPR. | |
| | | TWO PLACE DECIMAL $\pm .01$ | | Q.A. | |
| | | THREE PLACE DECIMAL $\pm .001$ | | COMMENTS: | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | |
| | | MATERIAL | | | |
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| NEXT ASSY | USED ON | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |



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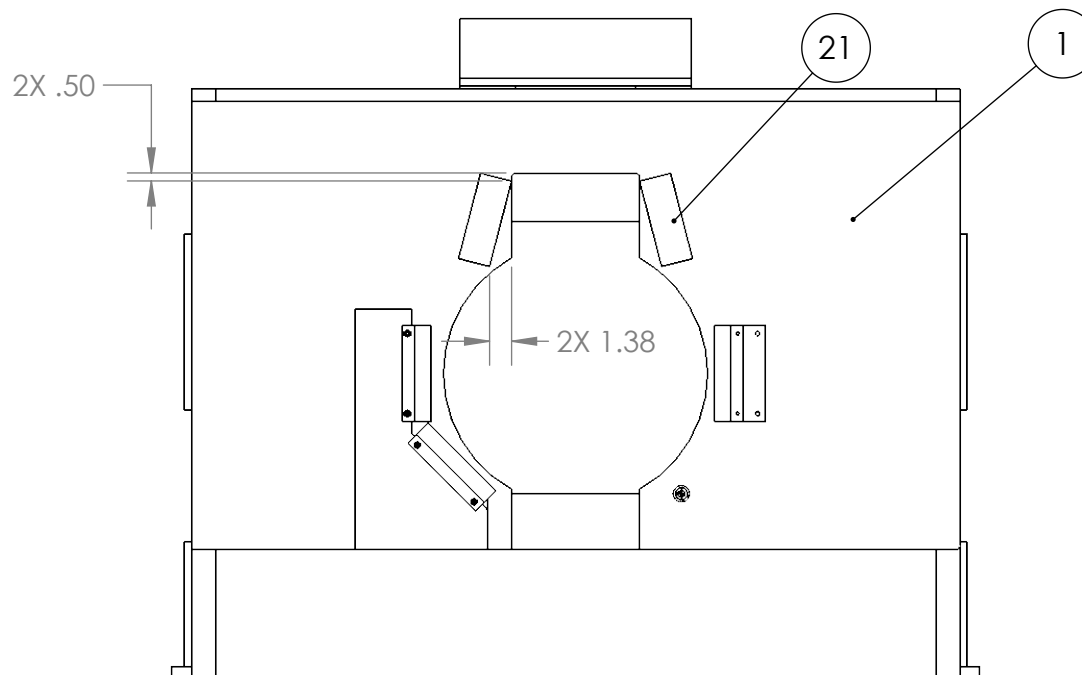
Loading Station

| | | |
|-------------|-----------------|---------------|
| SIZE | DWG. NO. | REV |
| A | TE-19108 | A |
| SCALE: 1:16 | | WEIGHT: |
| | | SHEET 6 OF 15 |

2

1

Step 10:



Note:

Attach (21) to (1) as shown.

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| | | TOLERANCES: |
| | | FRACTIONAL $\pm 1/16$ |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |
| | | TWO PLACE DECIMAL $\pm .01$ |
| | | THREE PLACE DECIMAL $\pm .001$ |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| NEXT ASSY | USED ON | FINISH |
| APPLICATION | | DO NOT SCALE DRAWING |

| | | |
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| | NAME | DATE |
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| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |



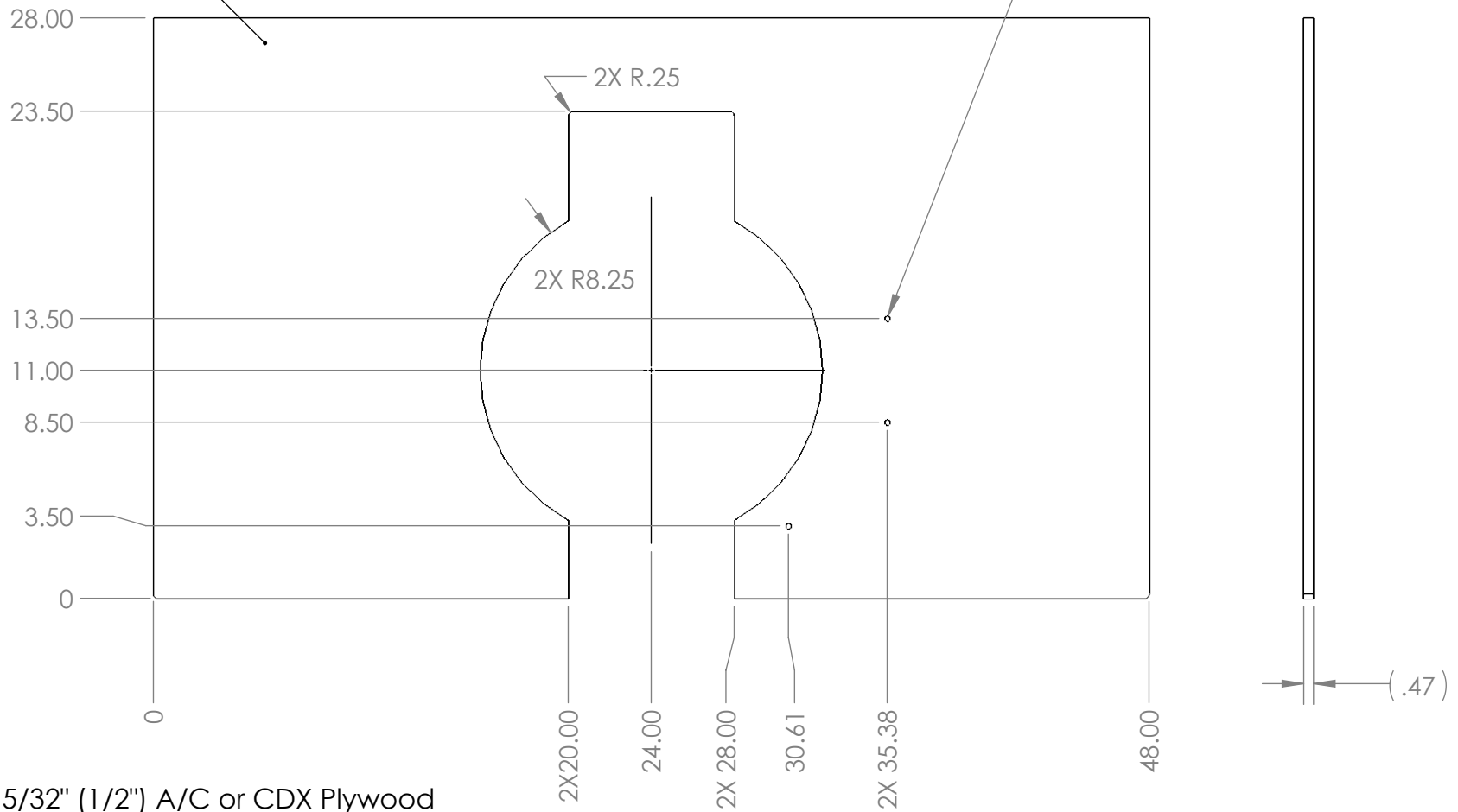
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Loading Station

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|-------------|-----------------|---------------|
| SIZE | DWG. NO. | REV |
| A | TE-19108 | A |
| SCALE: 1:16 | | WEIGHT: |
| | | SHEET 7 OF 15 |

2

1

TE-19108-01



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| | | TOLERANCES: |
| | | FRACTIONAL $\pm 1/16$ |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |
| | | TWO PLACE DECIMAL $\pm .01$ |
| | | THREE PLACE DECIMAL $\pm .001$ |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| NEXT ASSY | USED ON | FINISH |
| APPLICATION | | DO NOT SCALE DRAWING |

| | NAME | DATE |
|-----------|------|------|
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |

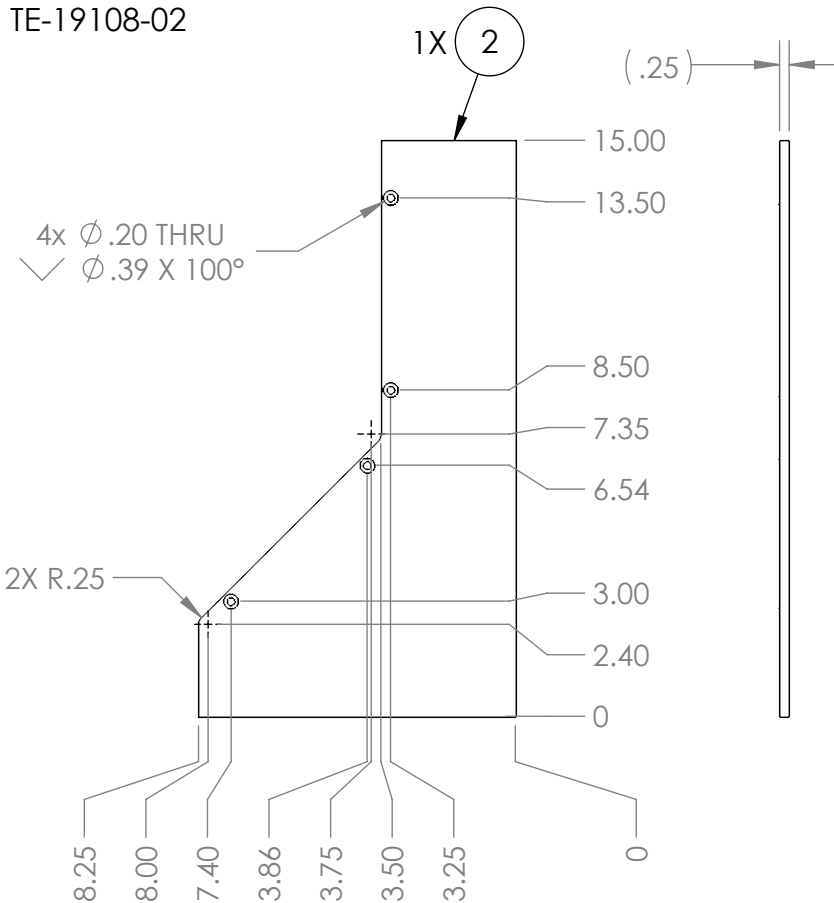


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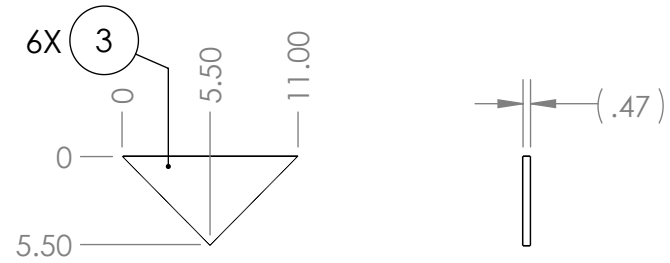
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| SIZE | DWG. NO. | REV |
| A | TE-19108 | A |
| SCALE: 1:16 | | WEIGHT: |
| | | SHEET 8 OF 15 |

TE-19108-02



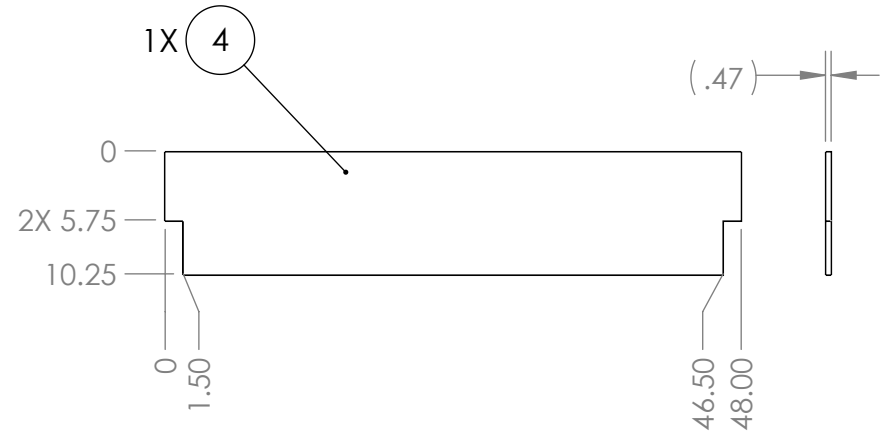
Note:
Material 1/4" Hardboard

TE-19108-03



Note:
Material 15/32" (1/2") A/C or CDX Plywood

TE-19108-04



Note:
Material 15/32" (1/2") A/C or CDX Plywood

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| | | DIMENSIONS ARE IN INCHES |
| | | TOLERANCES: |
| | | FRACTIONAL ±1/16 |
| | | ANGULAR: MACH ±1° BEND ±1° |
| | | TWO PLACE DECIMAL ±.01 |
| | | THREE PLACE DECIMAL ±.001 |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| | | FINISH |
| NEXT ASSY | USED ON | |
| APPLICATION | | DO NOT SCALE DRAWING |

| | NAME | DATE |
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| DRAWN | | |
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| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |



TITLE:

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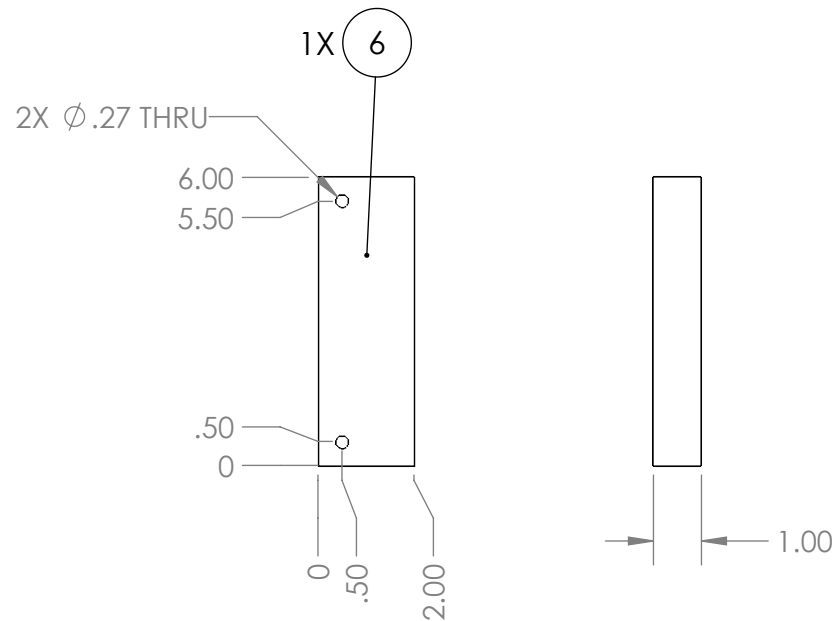
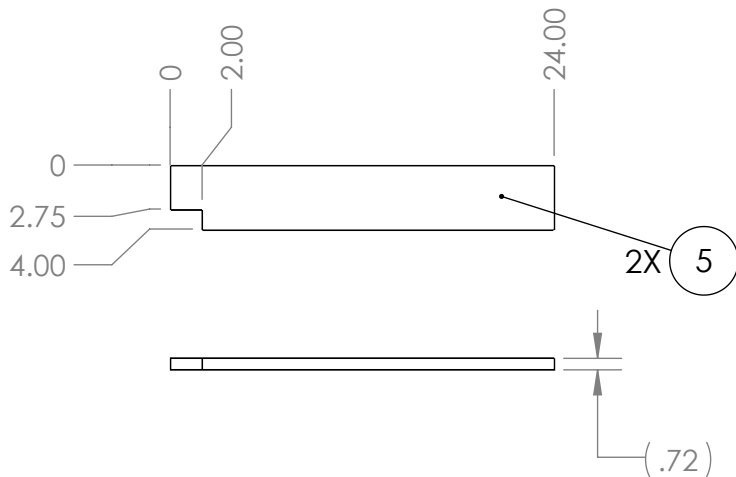
| SIZE | DWG. NO. | REV |
|-------------|----------|---------------|
| A | TE-19108 | A |
| SCALE: 1:16 | | WEIGHT: |
| | | SHEET 9 OF 15 |

2

1

TE-19108-05

TE-19108-06



Note:
Material 23/32" (3/4") A/C or CDX Plywood

Notes:
Material 2"x 4" Lumber Pine

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| | | DIMENSIONS ARE IN INCHES |
| | | TOLERANCES: |
| | | FRACTIONAL $\pm 1/16$ |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |
| | | TWO PLACE DECIMAL $\pm .01$ |
| | | THREE PLACE DECIMAL $\pm .001$ |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| NEXT ASSY | USED ON | FINISH |
| APPLICATION | | DO NOT SCALE DRAWING |

| | NAME | DATE |
|-----------|------|------|
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |



TITLE:
Loading Station

SIZE DWG. NO. REV
A **TE-19108** **A**

SCALE: 1:16 WEIGHT: SHEET 10 OF 15

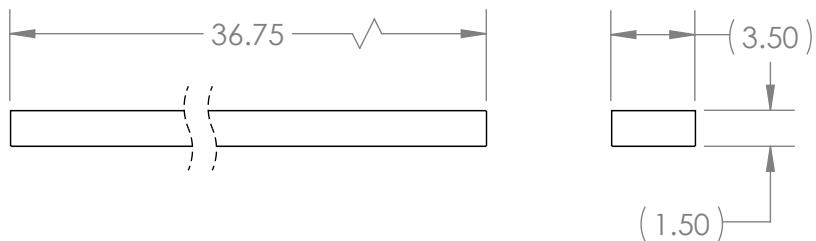
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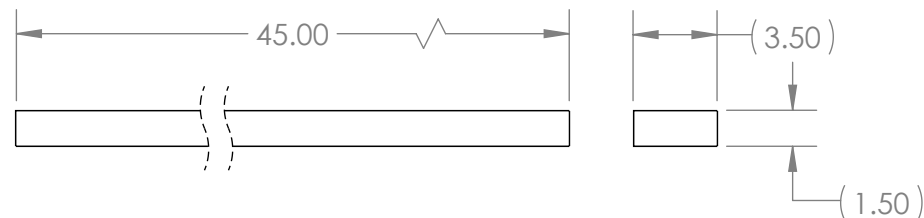
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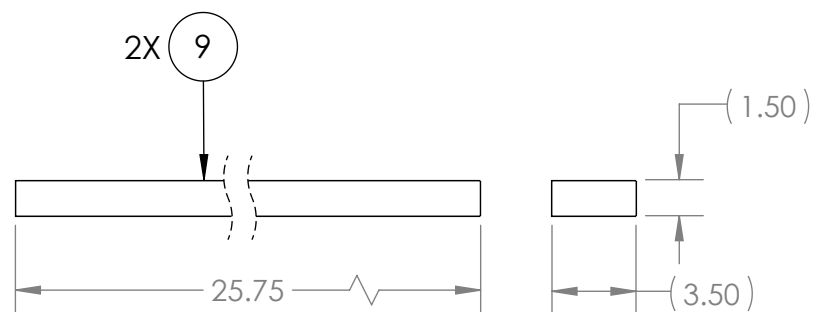
Notes:
Material 2"x 4" Lumber Pine

TE-19108-08



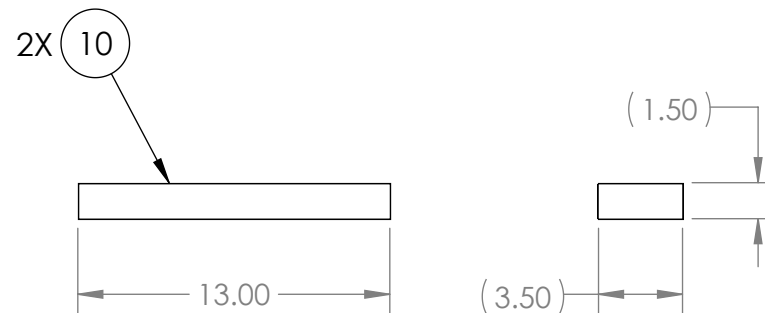
Notes:
Material 2"x 4" Lumber Pine

TE-19108-09



Notes:
Material 2"x 4" Lumber Pine

TE-19108-10



Notes:
Material 2"x 4" Lumber Pine

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NEXT ASSY

USED ON

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .001$

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



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TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

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SCALE: 1:16 WEIGHT:

SHEET 11 OF 15

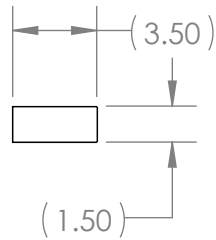
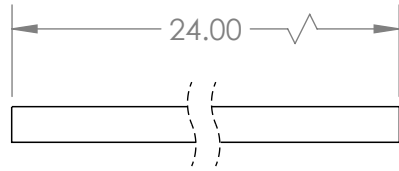
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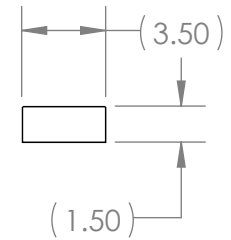
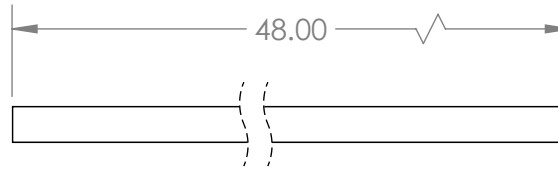
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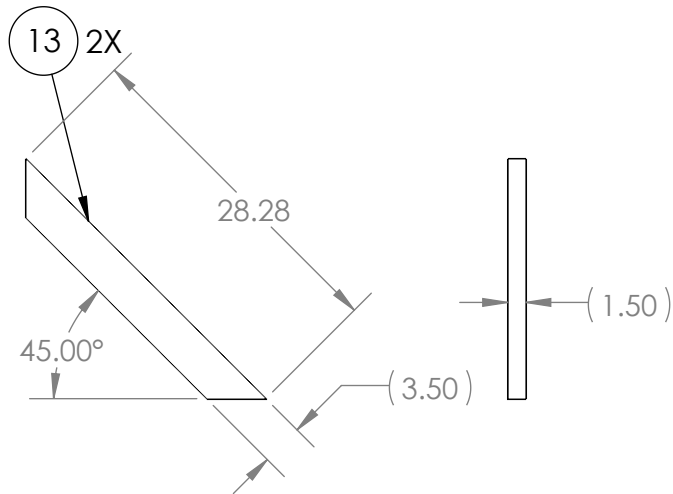
Notes:
Material 2"x 4" Lumber Pine

TE-19108-12



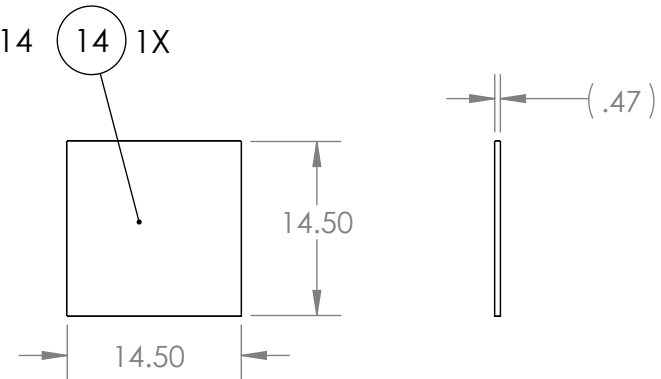
Notes:
Material 2"x 4" Lumber Pine

TE-19108-13



Notes:
Material 2"x 4" Lumber Pine

TE-19108-14



Note:
Material 15/32" (1/2") A/C or CDX Plywood

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .001$

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

A

SCALE: 1:16 WEIGHT:

SHEET 12 OF 15

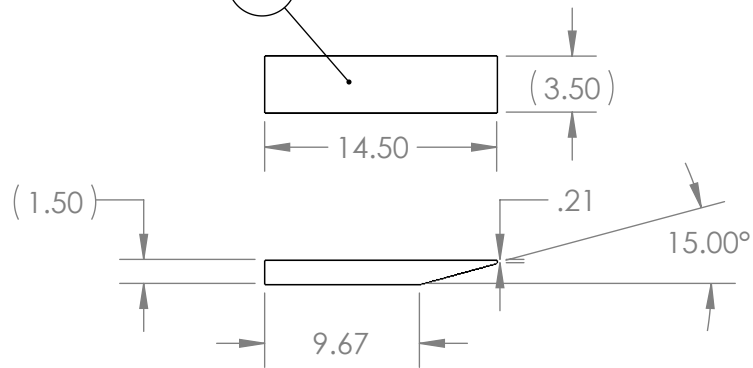
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1

B

TE-19108-15

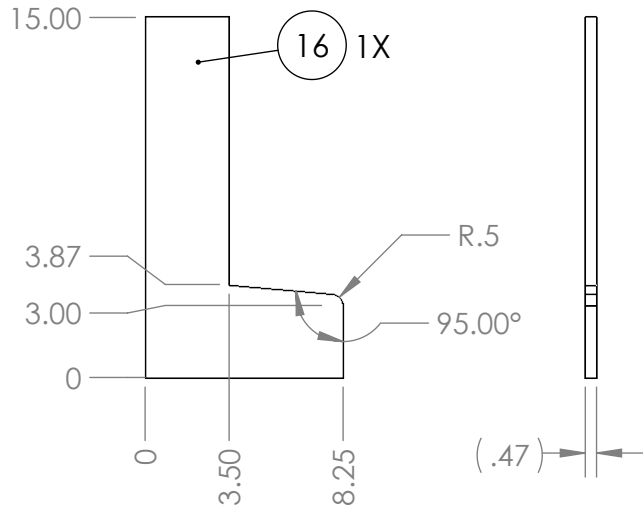
2X (15)



Note:
Material 2"x4" Pine Lumber

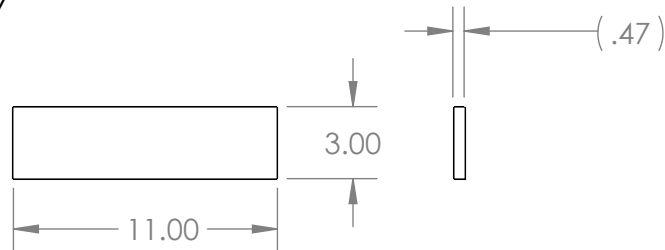
TE-19108-16

15.00 1X (16)



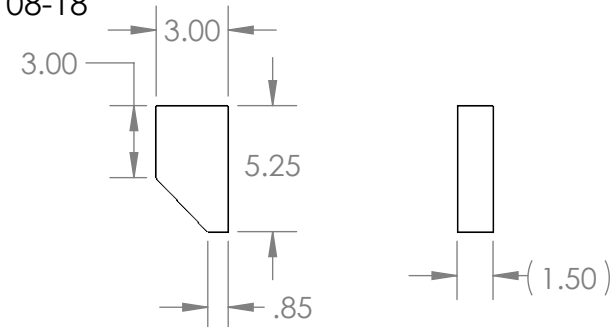
Note:
Material 15/32"(1/2") A/C or CDX Plywood

TE-19108-17



Note:
Material 15/32"(1/2") A/C or CDX Plywood

TE-19108-18



Note:
Material 2"x4" Pine Lumber

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .001$

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



TITLE:

Loading Station

SIZE

A

DWG. NO.

TE-19108

REV

A

SCALE: 1:16 WEIGHT:

SHEET 13 OF 15

B

A

2

1

2

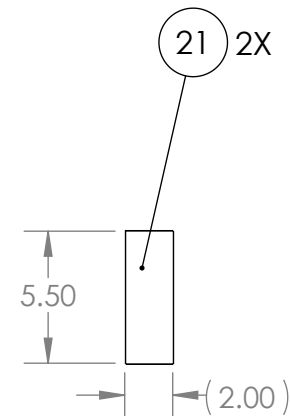
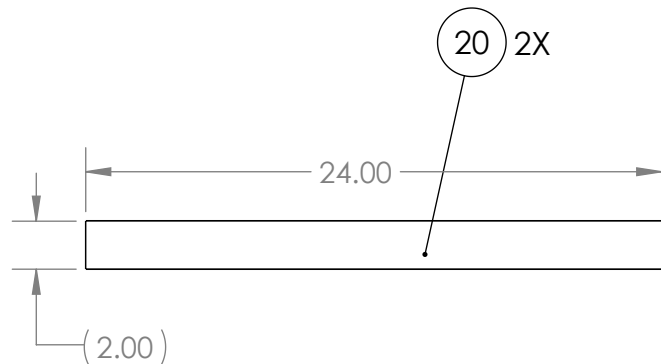
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TE-19108-20

TE-19108-21

B

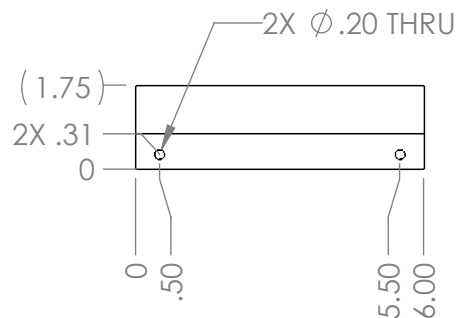
B



2" Hook Fastener

2" Vision Tape

TE-19108-19



Note:
Material Frost King C35PH

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A

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| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN INCHES |
| | | TOLERANCES: |
| | | FRACTIONAL $\pm 1/16$ |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |
| | | TWO PLACE DECIMAL $\pm .01$ |
| | | THREE PLACE DECIMAL $\pm .001$ |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | | MATERIAL |
| NEXT ASSY | USED ON | FINISH |
| APPLICATION | | DO NOT SCALE DRAWING |

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| | NAME | DATE |
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |



TITLE:
Loading Station

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|----------|-----------------|----------|
| SIZE | DWG. NO. | REV |
| A | TE-19108 | A |

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|-------------|---------|----------------|
| SCALE: 1:16 | WEIGHT: | SHEET 14 OF 15 |
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2

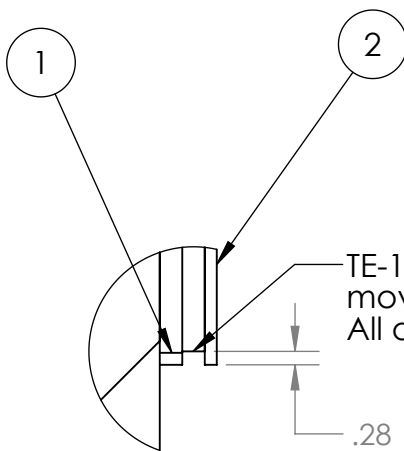
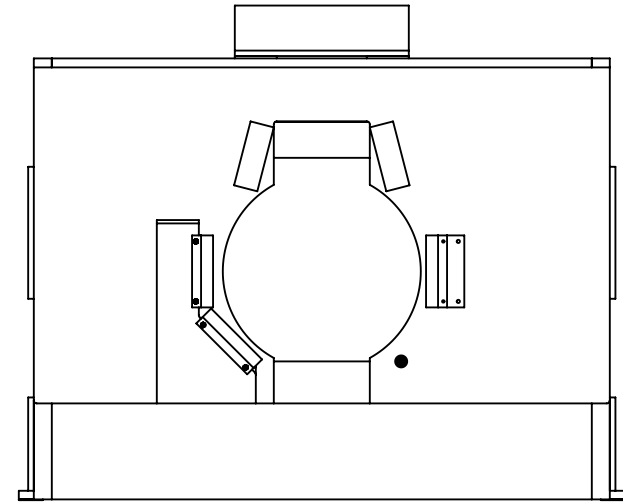
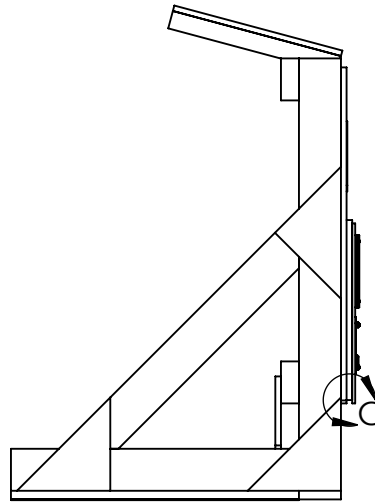
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1



This page shows the change needed to revise an initial Rev TE-19108 to function as Rev A intends without having to remake TE-19108-16.



TE-19108-16 initial release version needs to be moved up 0.28" (~9/32") relative to the mating parts. All other alignment stays the same.

DETAIL C
SCALE 1 : 4

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| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE |
| | | DIMENSIONS ARE IN INCHES | DRAWN | | |
| | | TOLERANCES: | CHECKED | | |
| | | FRACTIONAL $\pm 1/16$ | ENG APPR. | | |
| | | ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ | MFG APPR. | | |
| | | TWO PLACE DECIMAL $\pm .01$ | Q.A. | | |
| | | THREE PLACE DECIMAL $\pm .001$ | COMMENTS: | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | |
| | | MATERIAL | | | |
| NEXT ASSY | USED ON | FINISH | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |



TITLE:
Loading Station

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|----------|-----------------|----------|
| SIZE | DWG. NO. | REV |
| A | TE-19108 | A |

| | | |
|-------------|---------|----------------|
| SCALE: 1:16 | WEIGHT: | SHEET 15 OF 15 |
|-------------|---------|----------------|

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