Model Name: FE-00104

Title: Shelf, Corner Station

Item No. | Part Number | QTY | Description | Material
---|---|---|---|---
1 | FE-00104-01 | 2 | Shelf Leg | 1.25" Schedule 40 Pipe, 6061 Aluminum
2 | FE-00104-02 | 2 | Cross Brace | 1.25" Schedule 40 Pipe, 6061 Aluminum

Note: All dimensions are in inches. Tolerances are: X.X +/- 0.1, X.XX +/- 0.01, X.XXX +/- 0.001, ANG +/- 1. DO NOT SCALE.

ASME STANDARD, INCH

Scale 1:4 SHEET 1 OF 2

DO NOT SCALE
Item: FE-00104-01, Shelf Leg
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
Qty: 2

Item: FE-00104-02, Cross Brace
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
Qty: 2
**Title:** Shelf, Corner Station

**Model Name:** FE-00106

**Dimensions:**
- 33.50
- 16.00
- 9.00

**Tolerances:**
- X.X +/- 0.1
- X.XX +/- 0.01
- X.XXX +/- 0.001
- ANG +/- 1

**Material:**
- 1.25" Schedule 40 Pipe, 6061 Aluminum

**Item List:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FE-00106-01</td>
<td>2</td>
<td>fe-00106-01.prt</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
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<tr>
<td>2</td>
<td>FE-00106-02</td>
<td>2</td>
<td>fe-00106-02.prt</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
</tbody>
</table>

**Note:**
- UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
- DO NOT SCALE
Item: FE-00104-01, Shelf Leg
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
Qty: 2

Item: FE-00104-02, Cross Brace
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
Qty: 2
### Model Name
GE-14000

### Scale
1:32

### Scale 1:48

### Dimensions
- 296.00 ± 1.00
- 74.00 ± 0.50
- 62.00 ± 0.50
- 44.4
- (12.00)
- 48.25

### Itemized List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14001</td>
<td>3</td>
<td>Truss, 10' Section</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14002</td>
<td>2</td>
<td>Truss, 5' Section</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>GE-14003</td>
<td>2</td>
<td>Truss, Square</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>GE-14004</td>
<td>2</td>
<td>Truss Baseplate</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GE-14008</td>
<td>2</td>
<td>Truss OB Pole</td>
<td></td>
</tr>
</tbody>
</table>

### Tolerances
- X.X ± 0.1
- X.XX ± 0.01
- X.XXX ± 0.001
- ANG ± 1

### Notes
- UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
- TOLERANCES ARE:
- DO NOT SCALE
- SCALE 1:48

### Project
Truss Assembly

### Approval
APPROVED BY
ISSUE
DRAWN BY
CHECKED BY
DATE
DATE
DATE

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--- Attach Truss OB Pole to Truss Assembly using: 
- U-Bolt, 1/4"-20 x 1-3/8" Thread Length, for 2" OD Pipe (Qty 4) 
- 1/4-20 Hex Nut (Qty 8) 
2 Places

--- Connect Truss Sections together using: 
5/8-11 x 2" UNC Hex Head Bolts (Qty 4) 
5/8" Flat Washer (Qty 4) 
5/8-11 Hex Nut (Qty 4) 
Hardware supplied with truss 
6 Places

--- Connect Truss to Baseplates using: 
5/8-11 x 2" UNC Hex Head Bolts (Qty 4) 
5/8" Flat Washer (Qty 4) 
Hardware supplied with truss 
2 Places

SCALE 1:24
Description: General Purpose (GP) 1 ft. x 1 ft. Square Truss
Part Number: B0700
Manufacturer: James Thomas Engineering (or similar)
Website: www.jthomaseng.com/general-purpose-truss.html
Description: General Purpose (GP) 1 ft. x 1 ft. Square Truss
Part Number: B0702
Manufacturer: James Thomas Engineering (or similar)
Website: www.jthomaseng.com/general-purpose-truss.html

2" OD x .125" thick Aluminum Tube

1" OD x .125" thick Aluminum Tube

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1
DO NOT SCALE
Description: General Purpose (GP) 1 ft. x 1 ft. 4 Way Corner Block
Part Number: B4706
Manufacturer: James Thomas Engineering (or similar)
Website: www.jthomaseng.com/general-purpose-truss.html
Description: Truss Base Plate (24" x 24") for 12" x 12" GP Truss
Part Number: B4620
Manufacturer: James Thomas Engineering (or similar)
Website: www.jthomaseng.com/general-purpose-truss.html
### Model Name
GE-14008

### Scale
1:4

### Title
Truss OB Pole

### Revision Zone
A

### Description
Added Thru hole and B.C- moved 2.70 thru holes

### Date
12/5/13

### Initials
MLC

### Item
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part Number</th>
<th>Qty</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14008-1</td>
<td>1</td>
<td>1/4&quot; 6061 Aluminum Plate</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14008-2</td>
<td>1</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
<td></td>
</tr>
</tbody>
</table>

### Notes
- **TOLERANCES ARE:**
  - X.X +/- 0.1
  - X.XX +/- 0.01
  - X.XXX +/- 0.001
- DO NOT SCALE

### Dimensions
- (6.00)
- .83
- 6.50
- (13.00)
- (48.25)

### Drawing Information
- SCALE 1:8
- TRUSS OB PILE
- 1/4" 6061 Aluminum Plate
- 1.25" Schedule 40 Pipe, 6061 Aluminum

### Approval Information
- Revision A
- Zone C&D-3
- Added Thru hole and B.C- moved 2.70 thru holes
- Date: 12/5/13
- Initials: MLC
Item: GE-14008-1, Base  
Material: 1/4" Plate, 6061 Aluminum  
Scale: 1/2  
Qty: 1

Item: GE-14008-2, Pole  
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum  
Scale: 1/1  
Qty: 1
Low Goal Assembly

**Title:** Low Goal Assembly

**Model Name:** GE-14010

**Scale:** 3:16

**Dimensions:**
- UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
- TOLERANCES ARE:
  - X.X +/- 0.1
  - X.XX +/- 0.01
  - X.XXX +/- 0.001
- ANG +/- 1

**Parts List:**

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14011</td>
<td>3</td>
<td>Low Goal Side Assembly</td>
</tr>
<tr>
<td>2</td>
<td>GE-14012</td>
<td>1</td>
<td>Low Goal Front Assembly</td>
</tr>
<tr>
<td>3</td>
<td>GE-14013</td>
<td>4</td>
<td>Low Goal Keep Rod</td>
</tr>
<tr>
<td>4</td>
<td>GE-14014</td>
<td>1</td>
<td>Low Goal Top Assembly</td>
</tr>
<tr>
<td>5</td>
<td>GE-14015</td>
<td>1</td>
<td>Low Goal Ramp</td>
</tr>
</tbody>
</table>

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- DO NOT SCALE
Step 1: Assemble 3 Low Goal Side Assemblies as shown. Apply 1" wide Hook Velcro, Adhesive Backed around the perimeter of the bottom surface of the Frames.

Step 2: Position the Low Goal Front to the assembly from Step 1 as shown. Secure assembly with 4 Low Goal Keep Rods into the connections points of the Low Goal Sides and Low Goal Front.

Step 3: Set Low Goal Top onto the top of the assembly, and insert 4 1.5" Quick Release Pins into the Low Goal Keep Rods.

Velcro bottom of frames

SEE DETAIL A

Pin

DETAIL A

SCALE 1:4

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

DO NOT SCALE
Step 4: Apply a 4" wide strip of Hook Velcro to the perimeter of the bottom surface of the ramp. Insert Low Goal Ramp, making sure that the Ramp slopes out of the field.
NOTE: LOW GOAL

The LOW GOAL hooks into the field perimeter, and has a small ramp inside of the frame to help eject balls out of the field once scored. That ramp will be colored Blue or Red, depending on which side of the field it's on.
Weld on inside of tube NOT PERMISSIBLE. Typical 2 Places

Item 3 and 4 to be flush to this surface

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14011-1</td>
<td>2</td>
<td>Vertical Member</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14011-2</td>
<td>2</td>
<td>Horizontal Member</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>3</td>
<td>GE-14011-3</td>
<td>1</td>
<td>Connector Tube, Top</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>4</td>
<td>GE-14011-4</td>
<td>1</td>
<td>Connector Tube, Bottom</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
</tbody>
</table>
Item: GE-14011-1, Vertical Member
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14011-2, Horizontal Member
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 2
Item: GE-14011-3, Connector Tube, Top
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1:1
QTY: 1

Item: GE-14011-3, Connector Tube, Bottom
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1:1
QTY: 1
Low Goal Front Assembly

ITEM NO | PART NUMBER | QTY | DESCRIPTION | NOTES
1 | GE-14012-1 | 2 | Horizontal Member | 1.75"x.125" Square Tube, 6063 Aluminum
2 | GE-14012-2 | 2 | Vertical Member | 1.75"x.125" Square Tube, 6063 Aluminum
3 | GE-14012-3 | 1 | Connector Tube, Bottom | 1.25" Schedule 40 Pipe, 6061 Aluminum
4 | GE-14012-4 | 1 | Connector Tube, Top | 1.25" Schedule 40 Pipe, 6061 Aluminum

SCALE 1:4

1/4  1.5 - 7
1/4  1.5 - 7

Item 3 to be flush to this surface
No weld penetration permissible on inside surface of Item 3

 DETAIL A

SCALE 1:4

1/4  1.5 - 7
1/4  1.5 - 7

Item 4 to be flush to this surface
No weld penetration permissible on inside surface of Item 4

 DETAIL B

SEE DETAIL A
SECTION A-A

SEE DETAIL B
Item: GE-14012-01, Horizontal Member
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2

Item: GE-14012-02, Vertical Member
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2
Item: GE-14012-03, Connector Tube, Bottom
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 1

Item: GE-14012-04, Connector Tube, Top
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 1
NOTES:
1.) Material: 6061-T6 Aluminum, 1" Schedule 40 Pipe
2.) Remove all burrs and sharp edges
Item: GE-14014-01, Long Side
Material: 1.75" x .125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2

Item: GE-14014-02, Short Side
Material: 1.75" x .125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2
Item: GE-14014-03, Channel
Material: .75"x.75"x.125" Channel, 6063 Aluminum
Scale: 1:1
QTY: 1

36.00

(.75) - (.13) - (.75)
NOTE:
1.) Material: 1/4" Thick HDPE (red or Blue)
2.) Remove all burrs and sharp edges

Radius Permissible
2 Places

82.0°
6.92
90.0°

32.50
36.12
33.75
(.25)
## High Goal Assembly

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14021</td>
<td>1</td>
<td>High Goal Base Assembly</td>
<td>See Sheet 2 for sub-assembly detail</td>
</tr>
<tr>
<td>2</td>
<td>GE-14027</td>
<td>1</td>
<td>High Goal Face Assembly</td>
<td>See Sheet 3 for sub-assembly detail</td>
</tr>
<tr>
<td>3</td>
<td>GE-14034</td>
<td>4</td>
<td>High Goal Hinge Pin</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>GE-14035</td>
<td>4</td>
<td>High Goal Conduit</td>
<td></td>
</tr>
</tbody>
</table>

**SCALE:** 1:16

---

**TOLERANCES:**
- X.X +/- 0.1
- X.XX +/- 0.01
- X.XXX +/- 0.001
- ANG +/- 1

**UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.**

---

[Diagram of High Goal Assembly]
Step 1: Assemble High Goal Base as shown.

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14022</td>
<td>1</td>
<td>High Goal Base Assembly Left</td>
</tr>
<tr>
<td>2</td>
<td>GE-14023</td>
<td>6</td>
<td>High Goal Base Assembly Extension</td>
</tr>
<tr>
<td>3</td>
<td>GE-14024</td>
<td>1</td>
<td>High Goal Base Assembly Middle</td>
</tr>
<tr>
<td>4</td>
<td>GE-14025</td>
<td>1</td>
<td>High Goal Base Assembly Right</td>
</tr>
</tbody>
</table>
Step 2: Assemble the High Goal Face. Note: During the initial assembly, Items 5 and 6 will be riveted to the aluminum structure as shown. Once riveted the plastic should stay mounted to the aluminum frames.

Step 3: Pin the High Goal Face (8 Places) using supplied 1.75” Quick Release Pins.
Step 4: Mate the High Goal Face with the High Goal Base

Step 5: Insert High Goal Pins to secure High Goal Face to High Goal Base (4 Places)

Note: Use supplied 1.5" Quick Release Pins to secure High Goal Pins (4 Places).

Step 6: Insert High Goal Conduit into High Goal Base and High Goal Face. (4 Places)

Note: Use supplied 1.5" Quick Release Pins to secure High Goal Conduit (8 Places).

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14021</td>
<td>1</td>
<td>High Goal Base Assembly</td>
</tr>
<tr>
<td>2</td>
<td>GE-14027</td>
<td>1</td>
<td>High Goal Face Assembly</td>
</tr>
<tr>
<td>3</td>
<td>GE-14034</td>
<td>4</td>
<td>High Goal Hinge Pin</td>
</tr>
<tr>
<td>4</td>
<td>GE-14035</td>
<td>4</td>
<td>High Goal Conduit</td>
</tr>
</tbody>
</table>
High Goal Base Assembly Left

---

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14022-1</td>
<td>2</td>
<td>High Goal Base Leg</td>
<td>1.75&quot; x .125&quot; Square Tube 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14022-2</td>
<td>3</td>
<td>High Goal Connector Tube</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
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<tr>
<td>3</td>
<td>GE-14022-3</td>
<td>1</td>
<td>High Goal Anchor Block</td>
<td>1.75&quot; x .125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>4</td>
<td>GE-14026</td>
<td>1</td>
<td>High Goal Hinge Assembly</td>
<td>Per Drawing</td>
</tr>
</tbody>
</table>

---

SCALE 1:8 SHEET 1 OF 3

(48.00)

(33.50)

TOLERANCES ARE:

X.X +/- 0.1

X.XX +/- 0.01

X.XXX +/- 0.001

ANG +/- 1

DO NOT SCALE

---

AMERICAN NATIONAL STANDARDS INCH

(1/4) x (1/4)

-3

(3/16)

3/16

3/16

3/16

(1/4)

1

1

2

3

4

1

1

1

1
Item:GE-14022-02, High Goal Connector Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 3

Item:GE-14022-01, High Goal Base Leg
Material: 1.75" x .125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2
Item: GE-14022-03, High Goal Anchor Block  
Material: 1.75" x .125" Square Tube, 6063 Aluminum  
Scale: 1:1  
QTY: 1

Item: GE-14022, High Goal Base Assembly Left  

Material: 1.75" x .125" Square Tube, 6063 Aluminum  
Scale: 1:1  
QTY: 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
X.X +/- 0.1  
X.XX +/- 0.01  
X.XXX +/- 0.001  
ANG +/- 1  
DO NOT SCALE
High Goal Base Extension

**Dimensions:**
- 74.75 in (81.0)
- 2X 3.13
- 2X 1.63
- 2X Ø .26 Thru All
  To Be Drilled After Welding

**Table of Parts:**

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14023-1</td>
<td>1</td>
<td>Outer Tube</td>
<td>1-1/4&quot; Sched. 40, 6061 Aluminum Pipe</td>
</tr>
<tr>
<td>2</td>
<td>GE-14023-2</td>
<td>2</td>
<td>Inner Tube</td>
<td>1&quot; Sched. 40, 6061 Aluminum Pipe</td>
</tr>
</tbody>
</table>
Title: High Goal Base Extension

Dimensions:
- 74.75
- 2X 1.50
- 2X Ø0.63 Thru One Wall Only
- 6.00

Tolerances: X.X +/- 0.1, X.XX +/- 0.01, X.XXX +/- 0.001

Angles: ± 1

Note: Drill after welding

Scale: 1:2

Unless otherwise specified, all dimensions are in inches.

REV: 0

Scale: 1:2

Sheet 2 of 2
ITEM NO. | PART NUMBER | QTY  | DESCRIPTION                          | MATERIAL                        |
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14024-1</td>
<td>2</td>
<td>High Goal Middle, Spacer Block</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14024-2</td>
<td>6</td>
<td>High Goal Middle, Connector Tube</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>3</td>
<td>GE-14024-3</td>
<td>2</td>
<td>High Goal Middle, Base Leg</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>4</td>
<td>GE-14024-4</td>
<td>2</td>
<td>High Goal Middle, Anchor Block</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>5</td>
<td>GE-14026</td>
<td>2</td>
<td>High Goal Hinge, Assembly</td>
<td>Per Drawing GE-14026</td>
</tr>
</tbody>
</table>

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1
DO NOT SCALE

(48.00)
(15.50)
(16.25)

2X 5.21
3X .88
2X .88
2X 19.50
(33.50)

3/16
(1/4)
2 Places

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Item: GE-14024-01, High Goal Middle, Spacer Block
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2

Item: GE-14024-02, High Goal Middle, Connector Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 6
<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14025-1</td>
<td>2</td>
<td>High Goal Base Leg</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14025-2</td>
<td>3</td>
<td>High Goal Connector Tube</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>3</td>
<td>GE-14025-3</td>
<td>1</td>
<td>High Goal Anchor Block</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>4</td>
<td>GE-14026</td>
<td>1</td>
<td>High Goal Hinge Assembly</td>
<td>Per Drawing GE-14026</td>
</tr>
</tbody>
</table>

TOLERANCES ARE:

- X.X +/- 0.1
- X.XX +/- 0.01
- X.XXX +/- 0.001
- ANG +/- 1

DO NOT SCALE
Item: GE-14025-01, High Goal Base Leg
Material: 1.75" x .125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 2

Item: GE-14025-02, High Goal Connector Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 3
Item: GE-14025-03, High Goal Anchor Block
Material: 1.75" x .125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 1
High Goal Hinge Assembly

No weld permissible on inside surface of Item 2

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14026-1</td>
<td>1</td>
<td>Hinge Assembly Base</td>
<td>1.75&quot;x.125&quot; Square Tube, 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14026-2</td>
<td>1</td>
<td>Hinge Assembly Pivot</td>
<td>1.25&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
</tbody>
</table>
Item: GE-14026-01, Hinge Assembly Base
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/1
QTY: 1

Item: GE-14026-02, Hinge Assembly Pivot
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
QTY: 1
ITEM NO | PART NUMBER | QTY | DESCRIPTION | MATERIAL
---|---|---|---|---
1 | GE-14026 | 1 | High Goal Hinge, Assembly | Per Drawing
2 | GE-14028-1 | 2 | Horizontal Tube | 1.25" Schedule 40 Pipe, 6061 Aluminum
3 | GE-14028-10 | 2 | Angled Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum
4 | GE-14028-11 | 2 | Horizontal Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum
5 | GE-14028-12 | 2 | Horizontal Corner | 1.5"x.125" Square Tubing, 8063 Aluminum
6 | GE-14028-13 | 2 | Vertical Corner | 1.5"x.125" Square Tubing, 8063 Aluminum
7 | GE-14028-14 | 2 | 9.125" thick 5052 Aluminum Sheet
8 | GE-14028-2 | 1 | Vertical Tube | 1.75"x.125" Square Tubing, 6063 Aluminum
9 | GE-14028-6 | 1 | Anchor Block | 1.75"x.125" Square Tubing, 6063 Aluminum
10 | GE-14028-7 | 1 | Vertical Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum

TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1
DO NOT SCALE

SCALE 1:8
SHEET 1 OF 5

High Goal Face Right

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.

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Items 2, 3, 4 and 10 to be flush with Item 8 as shown.

2X \( \frac{3}{16} \), Thru all, to be drilled after welding.

4 Places

\( \frac{3}{16} \)

1.7

1.7

2 Places
No weld penetration allowed on inside of tube
Item: GE-14028-01, Horizontal Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
QTY: 2

Item: GE-14028-2, Vertical Tube
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 1

Item: GE-14028-6, Anchor Block
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 1

Item: GE-14028-7, Vertical Channel Support
Material: 1.25"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1
DO NOT SCALE
Item: GE-14028-10, Angled Channel Support
Material: 1.25"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 2

Item: GE-14028-11, Horizontal Channel Support
Material: 1.25"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 2

Item: GE-14028-12, Horizontal Corner
Material: 1.5"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 2

Item: GE-14028-13, Vertical Corner
Material: 1.5"x.125" Square Tube, 6063 Aluminum
Scale: 1/2
QTY: 2

Item: GE-14028-14, Channel
Material: 1/8" thick 5052 Aluminum Sheet
Scale: 1/2
QTY: 2

High Goal Face Right
High Goal, Extension Channel

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14029-2</td>
<td>1</td>
<td>High Goal Channel Support</td>
<td>1” Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14029-3</td>
<td>2</td>
<td>High Goal Channel Pin</td>
<td>1.25” Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>3</td>
<td>GE-14029-4</td>
<td>1</td>
<td>High Goal Extension Channel</td>
<td>.125” Sheet, 5052 Aluminum</td>
</tr>
</tbody>
</table>

TOLERANCES:

- X.X +/- 0.1
- X.XX +/- 0.01
- X.XXX +/- 0.001
- ANG +/- 1

DO NOT SCALE
Item: GE-14029-04, High Goal Extension Channel
Material: .125" Sheet, 5052 Aluminum
Scale: 1/1
QTY: 1

Item: GE-14029-3, High Goal Channel Pin
Material: 1" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
Qty: 2
Item: GE-14029-2, High Goal Channel Support
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/1
Qty: 1
ITEM NO. | PART NUMBER | QTY | DESCRIPTION                  | MATERIAL                        |
---------|-------------|-----|-------------------------------|--------------------------------|
1        | GE-14026    | 2   | High Goal Hinge, Assembly    | Per Drawing                    |
2        | GE-14030-1  | 2   | Spacer Tube                  | 1.75"x.125" Square Tubing, 6063 Aluminum |
3        | GE-14030-3  | 4   | Horizontal Tube              | 1.25" Schedule 40 Pipe, 6061 Aluminum |
4        | GE-14030-4  | 2   | Vertical Tube                | 1.75"x.125" Square Tubing, 6063 Aluminum |
5        | GE-14030-5  | 2   | Anchor Block                 | 1.75"x.125" Square Tubing, 6063 Aluminum |
6        | GE-14030-6  | 4   | Channel                      | 125° Thick 5052 Aluminum Sheet |
SEE DETAIL A

SEE DETAIL B

Drill after welding

4X/.26 Thru

(0.83)

1.50

Hole 3 to be flush to Holes 4 on this surface. 4 Places.

(3/16)

.88

4 Places

4X 90.0°

3/16
Item: GE-14030-01, Spacer Tube
Material: 1.75"x.125" Square Tubing, 6063 Aluminum
Scale: 1/1
QTY: 2

Item: GE-14030-03, Horizontal Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1/2
QTY: 2
Item: GE-14030-04, Vertical Tube
Material: 1.75"x.125" Square Tubing. 6063 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14030-05, Anchor Block
Material: 1.75"x.125" Square Tubing. 6063 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14030-06, Channel
Material: .125" Thick 5052 Aluminum Sheet
Scale: 1:2
QTY: 4
ITEM NO | PART NUMBER | QTY | DESCRIPTION | MATERIAL
--- | --- | --- | --- | ---
1 | GE-14026 | 1 | High Goal Hinge, Assembly | Per Drawing
2 | GE-14031-1 | 2 | Horizontal Tube | 1.25" Schedule 40 Pipe, 6061 Aluminum
3 | GE-14031-10 | 2 | Angled Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum
4 | GE-14031-11 | 2 | Horizontal Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum
5 | GE-14031-12 | 2 | Horizontal Corner Brace | 1.5"x.125" Square Tubing, 6063 Aluminum
6 | GE-14031-13 | 2 | Vertical Corner Brace | 1.5"x.125" Square Tubing, 6063 Aluminum
7 | GE-14031-14 | 2 | Channel | .125" Thick 5052 Aluminum Sheet
8 | GE-14031-2 | 1 | Vertical Tube | 1.75"x.125" Square Tubing, 6063 Aluminum
9 | GE-14031-6 | 1 | Anchor Block | 1.75"x.125" Square Tubing, 6063 Aluminum
10 | GE-14031-7 | 1 | Vertical Channel Support | 1.25"x.125" Square Tubing, 6063 Aluminum
Items 2, 3, 4 and 10 to be flush with Item 8 as shown

Items to be flush as shown

2X Ø .26
Thru all to be drilled after welding

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

HIGH GOAL FACE LEFT

SEE DETAIL B

SEE DETAIL C

SEE DETAIL A
No weld penetration allowed on inside of tube 2 Places.
Item: GE-14031-1, Horizontal Tube
Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14031-2, Vertical Tube
Material: 1.75"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 1

Scale: 1:1

UNLESS OTHERWISE SPECIFIED ALL
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
0.001 +/- 0.001
0.01 +/- 0.01
0.1 +/- 0.01

DO NOT SCALE

High Goal Face Left

High Goal Face Left

46.25

43.00

1.75

1.75

1.66

1.66
Item: GE-14031-6, Anchor Block  
Material: 1.75"x.125" Square Tube, 6063 Aluminum  
Scale: 1:1  
QTY: 1

Item: GE-14031-7, Vertical Channel Support  
Material: 1.25"x.125" Square Tube, 6063 Aluminum  
Scale: 1:1  
QTY: 1

Item: GE-14031-10, Angled Channel Support  
Material: 1.25"x.125" Square Tube, 6063 Aluminum  
Scale: 1:1  
QTY: 2
Item: GE-14031-11, Horizontal Channel Support
Material: 1.25"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14031-12, Horizontal Corner Brace
Material: 1.5"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 2
Item: GE-14031-13, Vertical Corner Brace
Material: 1.5"x.125" Square Tube, 6063 Aluminum
Scale: 1:1
QTY: 2

Item: GE-14031-14, Channel
Material: .125" Thick 5052 Aluminum Sheet
Scale: 1:2
QTY: 2
NOTES:

1.) Material: 1/4" HDPE (Red or Blue)
2.) Remove burrs and sharp edges

SEE DETAIL A

Radius Permissible TYP.
High Goal Hinge Pin

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14034-1</td>
<td>1</td>
<td>High Goal Pin Shaft</td>
<td>1&quot; Schedule 40 Pipe, 6061 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14034-2</td>
<td>1</td>
<td>High Goal Pin Head</td>
<td>.125&quot; Sheet, 5052 Aluminum</td>
</tr>
</tbody>
</table>
ITEM: GE-14034-01, High Goal Pin Shaft
MATERIAL: 1" Schedule 40 Pipe, 6061 Aluminum
SCALE: 1/1
QTY: 1

ITEM: GE-14034-02, High Goal Pin Head
MATERIAL: .125" Sheet, 5052 Aluminum
SCALE: 1/1
QTY: 1
**Title**: High Goal Conduit

**Model Name**: GE-14035

**Scale**: 1:1

---

**NOTES:**

1. Material: 3/4", 6061 Aluminum Round Rod
2. Remove burrs and sharp edges

---

**REV** | **DESCRIPTION** | **INITIAL** | **DATE**
---|---|---|---
A | 25° hole angles changed, View A added | NS | 12/9/13

---

**Notes:**

- Material: 3/4", 6061 Aluminum Round Rod
- Remove burrs and sharp edges
Player Station End Top Rail

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14036-01</td>
<td>1</td>
<td>Main Support</td>
<td>2&quot; Extruded Bare Angle, 6063 Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>GE-14036-03</td>
<td>2</td>
<td>Locking Pin</td>
<td>1 7/16&quot; Round Rod, 6061 Aluminum</td>
</tr>
</tbody>
</table>

SCALE 3:4

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

DO NOT SCALE
Item: GE-14036-01
Material: 2\" Angle, 6063 Aluminum
Scale: 1/1
QTY: 1

Item: GE-14036-03
Material: 1 7/16\" Aluminum Round Rod
Scale: 1/1
QTY: 2
NOTES:
1.) Material: 1/4" Thick Clear Polycarbonate
2.) Remove all burrs and sharp edges
NOTE:
1.) 1/4" Thick HDPE (Red or Blue)
2.) 1/8" Thick HDPE (Red or Blue)
3.) Remove all burrs and sharp edges

Weld Permissible
Vision Target

ITEM | PART NUMBER | QTY | DESCRIPTION
--- | --- | --- | ---
1 | GE-14047 | 1 | Vision Target Hanger Bracket
2 | GE-14048 | 1 | Vision Target Shaft
3 | GE-14049 | 1 | Vision Target Face
4 | GE-14050 | 1 | Vision Target Tape
5 | GE-14051 | 1 | Vision Target Plastic Surround
6 | GE-14052 | 1 | Vision Target L Bracket
7 | GE-14053 | 1 | Vision Target Solenoid
8 | GE-14054 | 1 | Vision Target Linkage
9 | GE-14055 | 1 | Vision Target Safety Sheet
10 | GE-14057 | 1 | Vision Target Weight
11 | GE-14064 | 1 | Vision Target Stop
12 | NYLON_BEARING | 2 | McMaster PN 6389K113
13 | NYLON_CLAMP | 4 | McMaster PN 2978T62
14 | VT_BOLT | 4 | 10-24 3/4" Bolt - McMaster PN 90272A245
15 | VT_NYLOCNUT | 4 | 10-24 3/8" Nyloc Nut - McMaster PN 90631A011
16 | VT_WASHER | 4 | No.10 Flat Washer McMaster PN 90126A514
Step 1: Insert Vision Target Shaft into holes in the sides of the Vision Target Hanger Bracket. The Nylon Bearings are used as spacers, and should be inserted onto the Vision Target Shaft.

Step 2: Adhere the Vision Target Tape to the Vision Target Face.
Step 3: Adhere Nylon Clamp to the back of the Vision Target Face. Make sure that the Vision Target Face is centered in the Vision Target Bracket.

Step 4: Adhere the Vision Target Weight to the bottom / center of the back of the Vision Target Face.

Step 5: Adhere the Vision Target Stop to the Vision Target Hanger Bracket so that the Vision target base can’t go past Vertical.

Step 6: Adhere the Vision Target L Bracket just below the Vision Target Shaft.

Step 7: Using specified bolts, washers and nuts, secure the Vision Target Solenoid to the Vision Target Hanger Bracket.

Step 8: Insert the Vision Target Linkage into the Vision Target L Bracket and the Vision Target Solenoid.

Note: See Sheet 5 for Specific Dimensions regarding placement of bushings and clamps.

Note: Adhesion in Step 3 - Step 6 is done using double-sided foam tape.
Step 9: Apply 1" VELCRO to front and back tabs on the Vision Target Hanger Bracket. Locations are noted. (3 Places on front and 3 Places on Back)

Step 10: Adhere the Vision Target Plastic Surround and Safety Sheet to the front and back of the Vision Target respectively.
Item: GE-14047 Vision Target Hanging Bracket
Material: .125 Sheet, 5052 Aluminum
Quantity: 1
Scale: 3/8
Note: Remove All Sharp Edges and Burrs
Material: Black ABS Plastic
Note: Remove All Sharp Edges and Burrs.
Material: Black ABS Plastic

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

SCALE 3:8

VISION TARGET PLASTIC SURROUND
Item: Vision Target Safety Shield
Material: .125" Clear Polycarbonate
Qty: 1
Scale: 3/8
Item: Pedestal
Material: Polyethylene

Note:
Item No. US Plastics PN: 4031
Description: Tamco 30 Gallon Polyethylene Tank
Notes:
1. Material: 9 Gage Sheet, 5052 Aluminum
2. Remove all burrs and sharp edges
Notes:
1. Material: 9 Gage Sheet, 5052 Aluminum
2. Remove all burrs and sharp edges
Notes:
1. Material: 1" Schedule 40 Pipe, 6061 Aluminum
2. Remove all burns and sharp edges.
Notes:
1. Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
2. Remove all burrs and sharp edges.
Notes:
1. Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
2. Remove all burrs and sharp edges
Notes:
1. Material: 1" Schedule 40 Pipe, 6061 Aluminum
2. Remove all burrs and sharp edges
Rivet Item 2 and Item 1 together using a 3/16" dia. aluminum pop rivet. 4 places.

Apply 4" Hook Velcro to this surface.

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14076</td>
<td>1</td>
<td>End Bracket, Human Player Barrier</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14082</td>
<td>1</td>
<td>Short Insert Pipe, Human Player Barrier</td>
<td></td>
</tr>
</tbody>
</table>
Rivet Item 1 and Item 2 together using 3/16" dia aluminum pop rivet. 4 places.

Apply 4" Hook Velcro to this surface.

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14076</td>
<td>1</td>
<td>End Bracket, Human Player Barrier</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14082</td>
<td>1</td>
<td>Short Insert Pipe, Human Player Barrier</td>
<td></td>
</tr>
</tbody>
</table>
Bracket Assembly, Center

Rivet Item 1 and Item 2 using a 3/16" dia aluminum pop rivet. 4 places.

Apply 4" Hook Velcro to this surface

ITEM NO | PART NUMBER | QTY | DESCRIPTION | NOTES
--- | --- | --- | --- | ---
1 | GE-14077 | 1 | Bracket, Human Player barrier | |
2 | GE-14079 | 1 | Insert Pipe, Human Player Barrier | |
Bracket Assembly, Right

Rivet Items 1 and 2 together using a 3/16" dia. pop rivet. 4 places.

Apply 4" Hook Velcro to this surface.

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14077</td>
<td>1</td>
<td>Bracket, Human Player barrier</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14082</td>
<td>1</td>
<td>Short Insert Pipe, Human Player Barrier</td>
<td></td>
</tr>
</tbody>
</table>
Bracket Assembly, Left

Rivet Item 1 and 2 together using a 3/16" dia. pop rivet. 4 places.

Apply 4" Hook Velcro to this surface.

---

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE-14077</td>
<td>1</td>
<td>Bracket, Human Player barrier</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GE-14082</td>
<td>1</td>
<td>Short Insert Pipe, Human Player Barrier</td>
<td></td>
</tr>
</tbody>
</table>

SCALE 1:8

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

DO NOT SCALE