No weld typ.

Plug weld this side prior to adding support rail.

Weld pin inside tube

Notes:
1. Remove all sharp edges
Drivers Station Support

Dimensions are in inches.

Tolerances:
- Fractional: ±1/16
- Angular: ±1°
- Bend: ±1°
- Two place decimal: 0.01
- Three place decimal: 0.001

Interpret geometric tolerancing per:
- Material

Application used on next assembly.

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Notes:
1. Left corner support shown, right is same components, mirror image assy
2. Remove all sharp edges
### Notes:
1. Remove all sharp edges

#### Items

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FE-00003-01</td>
<td>1&quot; Schedule 40 6061 Aluminum Tube</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>FE-00003-02</td>
<td>1/2&quot; 6061 Aluminum Rod</td>
<td>1</td>
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**Revisions**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Rev.</th>
<th>Description</th>
<th>Date</th>
<th>Approved</th>
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<tr>
<td>A</td>
<td></td>
<td>Redraw</td>
<td>5/20/2008</td>
<td>narosenberg</td>
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<tr>
<td>B</td>
<td></td>
<td>Drawing reformatted</td>
<td>3/19/2020</td>
<td>CPO</td>
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</tbody>
</table>

---

**Title:** Rail Pin Assy

**Dimensions:**
- 1/2" Ø1/2
- 20.50
- 0.38
- 1.32
- 1.05
- 3.00
- 0.50

**Tolerances:**
- Fractional: 1/16
- Angular: 1° BEND
- Two Place Decimal: .01
- Three Place Decimal: .001

**Material:** 6061 Aluminum

**Scale:** 1:1

---

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---

**Title Block:**

- **Title:** Rail Pin Assy
- **Design:**
- **Drawing:** B FE-00003
- **Scale:** 1:1
- **Weight:**
- **Sheet:** 1 of 1

---

**Q.A.**

- **Checked:**
- **MFG APPR.:**
- **ENG APPR.:**
- **DRAWN:**
- **CHECKED:**
- **MFG APPR.:**
- **ENG APPR.:**
- **DRAWN:**
- **CHECKED:**
- **MFG APPR.:**
- **ENG APPR.:**

---

**Interpret Geometric Tolerancing Per:**

- **DIMENSIONS ARE IN INCHES**
- **FRACTIONAL:**
  - 1/16
- **ANGULAR:**
  - 1° BEND
- **TOLERANCES:**
  - TWO PLACE DECIMAL: .01
  - THREE PLACE DECIMAL: .001

---

**Notes:**

1. Remove all sharp edges
**Notes:**

1. Remove all sharp edges and burrs

**ITEM NO.** | **PART NUMBER** | **DESCRIPTION** | **QTY.**
---|---|---|---
1 | FE-00004-01 | 3/16 Aluminum Diamond Plate | 1
2 | FE-00004-02 | Hinge, Aluminum 3" x .09", 1/4" Pin | 2
3 | FE-00004-03 | Hinge, Aluminum 3" x .09", 1/4" Pin | 1
4 | FE-00004-04 | 1 3/4" x 1 3/4" x 1/8" Square 6061 Aluminum Tubing | 2
5 | FE-00004-05 | 3/4" x 3/4" x 1/8" 6061 Aluminum 'U' Channel | 1
6 | FE-00004-06 | 1/4" 6061 Aluminum Plate | 1
7 | FE-00004-07 | Hinge, Aluminum 3" x .09", 1/4" Pin (2 Pieces Welded) | 2
8 | FE-00004-08 | Hinge, Aluminum 3" x .09", 1/4" Pin | 2
9 | FE-00004-09 | 1/8" 6061 Aluminum Plate | 2
10 | FE-00004-10 | 1/8" 6061 Aluminum Plate | 2
Notes:
1. Remove all sharp edges and burrs

Dimensions are in inches
Tolerances:
- Fractional: 1/16
- Angular: MACH 1° BEND
- Two place decimal: .01
- Three place decimal: .001

Interpret geometric tolerancing per:

Application used on nextassy

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<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<tbody>
<tr>
<td>1</td>
<td>FE-00005-01</td>
<td>3&quot; x 3&quot; x 1/4&quot; 6061-T6 Aluminum Angle</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>FE-00005-02</td>
<td>1 1/4&quot; Schedule 40 6061-T6 Aluminum Pipe</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>FE-00005-03</td>
<td>1 1/4&quot; Schedule 40 6061-T6 Aluminum Pipe</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>FE-00005-04</td>
<td>1 1/4&quot; Schedule 40 6061-T6 Aluminum Pipe</td>
<td>1</td>
</tr>
</tbody>
</table>
ITEM NO. | PART NUMBER | DESCRIPTION | QTY.  
--- | --- | --- | ---  
1 | FE-00006-01 | 3" x 3" x 1/4" 6061-T6 Aluminum Angle | 1  
2 | FE-00006-02 | 1-1/4" Schedule 40 6061-T6 Aluminum Pipe | 2  
3 | FE-00006-03 | 1-1/4" Schedule 40 6061-T6 Aluminum Pipe | 1  
4 | FE-00006-04 | 1-1/4" Schedule 40 6061-T6 Aluminum Pipe | 1  
5 | FE-00006-05 | 1-1/2" Schedule 40 6061-T6 Aluminum Pipe | 1  
6 | FE-00006-06 | 1" x 1" x 1/4" 6061-T6 Aluminum Angle | 1  
7 | FE-00006-07 | 1-1/4" Schedule 40 6061-T6 Aluminum Pipe | 2  

Field Gate, Weldment

DETAIL B SCALE 1:1

NOTE: USE FIELD GATE FOR BENDS

DIMENSIONS ARE IN INCHES

TOLERANCES:  
- FRACTIONAL: 1/16
- ANGULAR: MACH 1° BEND
- TWO PLACE DECIMAL: .01
- THREE PLACE DECIMAL: .001

APPLICATION USED ON NEXT ASSY

12/29/2020

A A

B B

C C

D D

COMMENTS:

Q.A.

MFG APPR.

ENG APPR.

CHECKED

DRAWN

FINISH

MATERIAL

INTERPRET GEOMETRIC TOLERANCING PER:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL: 1/16

ANGULAR: MACH 1° BEND

TWO PLACE DECIMAL: .01

THREE PLACE DECIMAL: .001

APPLICATION USED ON NEXT ASSY

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2.97
2x 1.47
1.50

0
7.69
11.69
15.69
19.69
23.69
27.69
31.69
35.69
39.69
43.69
47.69
51.69
55.69
59.69
63.69

Notes:
1. Remove all sharp edges and burrs.

ITEM NO. PART NUMBER DESCRIPTION QTY.
1 FE-00007-01 2" x 2" x 1/8" Sq. Corner 6063 Aluminum Angle 1
2 FE-00007-02 1 1/2" x 1 1/2" x 1/8" 6061 Aluminum Angle 1
3 FE-00007-03 1 7/16" 6061 Aluminum Round Stock 2
Notes:
2. Remove all sharp edges.
Notes:
2. Remove all sharp edges.
Notes:
2. Remove all sharp edges.
Notes:
1. Material: 3/8" Thick Acrylic Sheet
Welds should be centered on fingers of hinge.

**ITEM NO.** | **PART NUMBER** | **DESCRIPTION** | **QTY.**
--- | --- | --- | ---
1 | FE-00014-01 | 3/16" 3003 Aluminum Diamond Plate | 2
2 | FE-00014-02 | 3" Aluminum Hinge, 1/4" Pin | 1
3 | FE-00014-03 | 3/4" x 3/4" x 1/8" 6061-T6 Aluminum 'U' Channel | 1
4 | FE-00014-04 | 3" x 3" x 1/4" 6061-T6 Aluminum Angle | 1
5 | FE-00014-05 | 1" x 1" x 1/8" 6061-T6 Aluminum Angle | 1
Note: Remove all sharp edges.
Notes:
1. Material: 1/8" Thick HDPE, Yellow.
2. Remove all sharp edges.
ITEM NO. | PART NUMBER | DESCRIPTION | QTY.
--- | --- | --- | ---
1 | FE-00018-01 | 1 1/4" Schedule 40 6061-T6 Aluminum Pipe | 1
2 | FE-00018-02 | 1" Schedule 40 6061-T6 Aluminum Pipe | 2
3 | FE-00018-03 | 3 1/2" x 1/4" 6061-T6 Aluminum Bar | 1

Shim as required

DIMENSIONS ARE IN INCHES TOLERANCE: FRACTIONAL: 1/16 ANGULAR (A/M) 1° BEND: TWO PLACE DECIMAL = .01 THREE PLACE DECIMAL = .001

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COPIES V SharedModule
B

ITEM NO. PART NUMBER DESCRIPTION QTY.
1 FE-00005 Field Rail 1
2 FE-00026 Connector Pin 2
3 rivet_.1875_.251-.375 3/16" Aluminum Rivet, .251-.375 Grip Range 4

REVISIONS

<table>
<thead>
<tr>
<th>ZONE</th>
<th>REV.</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVED</th>
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</thead>
<tbody>
<tr>
<td>B2</td>
<td>B</td>
<td>Connector Pin moved so both are on same side of assembly</td>
<td>3/15/2018</td>
<td>CPO</td>
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<tr>
<td>A4</td>
<td>C</td>
<td>Rivet description and part number changed to add more detail</td>
<td>3/20/2020</td>
<td>CPO</td>
</tr>
<tr>
<td>ITEM NO.</td>
<td>PART NUMBER</td>
<td>DESCRIPTION</td>
<td>QTY.</td>
<td></td>
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<td>-------------</td>
<td>----------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>FE-00005</td>
<td>Field Rail</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>FE-00018</td>
<td>Corner Connector</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>rivet_.1875_.251-.375</td>
<td>3/16&quot; Aluminum Rivet, .251-.375 Grip Range</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Diagram:**
- Field Rail Assy - Left
- DO NOT SCALE DRAWING

**Title:**
Field Rail Assy - Left

**Revisions:**
- A4 B Removed use of FE-00018 Connector Pin, modified rivet part number and description. 3/20/2020 CPO
### Revisions

<table>
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<tr>
<th>ZONE</th>
<th>REV</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3, A4</td>
<td>B</td>
<td>Additional FE-00026 Connector Pin added to assembly, rivet part number and description modified</td>
<td>3/20/2020</td>
<td>CPO</td>
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</tbody>
</table>

### Title

**Field Rail Assy - Right**

### Drawing Information

- **Scale:** 1:12
- **Weight:**
- **Sheet:** 1 of 1

### Comments

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### Table

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<tbody>
<tr>
<td>1</td>
<td>FE-00005</td>
<td>Field Rail</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>FE-00018</td>
<td>Corner Connector</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>FE-00026</td>
<td>Connector Pin</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>rivet_.1875_.251-.375</td>
<td>3/16&quot; Aluminum Rivet, .251-.375 Grip Range</td>
<td>8</td>
</tr>
</tbody>
</table>
Notes:
1. Material: 1" Schedule 40 Pipe, 6061-T6 Aluminum
2. Remove all sharp edges
Notes:

1. Material: 6063 Aluminum
2. Remove all sharp edges
Notes:
2. Remove all sharp edges.

Material: 1-1/4" Aluminum 6061-T6 Schedule 40 Pipe
DETAIL A
SCALE 1 : 2
Type 2 Places
Notes:
2. Remove all sharp edges.
Notes:
1. Material: 1/4" Clear Polycarbonate
2. Remove all burrs and sharp edges.
Notes:
1. 12 Gauge 5052 Aluminum
2. Remove all burrs and sharp edges


dimensions are in inches
tolerances:
fractional: ±1/16
angular: ±1° bend
two place decimal: ±.01
three place decimal: ±.001

minimal radius, typ
ø.27 thru 2 places

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Notes:
1. 12 Gauge 5052 Aluminum
2. Remove all burrs and sharp edges
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
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<th>QTY.</th>
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<tbody>
<tr>
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<td>FE-00044</td>
<td>Field Plastic &quot;G&quot;</td>
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<td>2</td>
<td>FE-00045</td>
<td>Lower Z-Bracket, Gate Plastic</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>FE-00046</td>
<td>Upper Z-Bracket, Gate Plastic</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>flat_phil_.25_20_.625</td>
<td>Steel Phillips Flat Head Screw, 1/4&quot;x20 x 5/8&quot; long, fully threaded</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>nylock_.25_20</td>
<td>Steel Nylon-Insert Locknut, 1/4&quot;-20</td>
<td>8</td>
</tr>
</tbody>
</table>
Note:

Material: 5052 Aluminum Sheet, 3/16" Thick

This drawing represents overall dimensions for AndyMark AM-2810. Please see the AndyMark website for more details regarding part dimensions.
Notes:
1. Description: 303 Stainless Steel Knurled Knob with 1/4"-28 Thread 1-3/4" Long Stud, 1" Head Diameter
2. Vendor: McMaster-Carr
3. Part Number: 6091K61
4. Equivalent substitutions allowed
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL: ±1/16
ANGULAR: MACH ±1° BEND: ±1°
TWO PLACE DECIMAL: ±0.02
THREE PLACE DECIMAL: ±0.010

MATERIAL/FINISH:
12 ga pre-plated steel

COMMENTS:
REMOVE ALL BURRS AND SHARP EDGES.

DO NOT SCALE DRAWING

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SCALE: 1:4
SHEET 1 OF 1

Title: Anchor

Size: C
Drawing No.: FE-00070

Drawn: NW 8/24/2022
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<td>FE-00070</td>
<td>Anchor</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Hook_4_22</td>
<td>4&quot; x 22&quot; Hook, Adhesive Backed</td>
<td>1</td>
</tr>
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</table>

DIMENSIONS ARE IN INCHES

PROHIBITED.

REMOVE ALL BURRS AND SHARP EDGES.

DO NOT SCALE DRAWING

SCALE: 1:4

TITLE: FE-00070 w/ hook

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±1/2
ANGULAR: ±1°
TWO PLACE DECIMAL: ±0.5°

MATERIAL/FINISH:

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COMMENTS:
REMOVE ALL BURRS AND SHARP EDGES.
Notes:
1. Vinyl to be applied to face.
Note notch for centering, located at top of part.

Trim vinyl at hole locations:
4 places, both sides.

Identical vinyl applied to each side, in same orientation.
Use "ID #" text to identify type.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Vinyl Image</th>
<th>Vinyl QTY per field</th>
<th>Part QTY per field</th>
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</thead>
<tbody>
<tr>
<td>FE-00081-ID1</td>
<td>FE-00081-ID1-Vinyl</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>FE-00081-ID2</td>
<td>FE-00081-ID2-Vinyl</td>
<td>4</td>
<td>2</td>
</tr>
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<td>FE-00081-ID4-Vinyl</td>
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<tr>
<td>FE-00081-ID7</td>
<td>FE-00081-ID7-Vinyl</td>
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<td>2</td>
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</table>

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:
FRAC TIONAL: ±1/2
ANGULAR, MACH: ±1° BEND ±1°
TWO PLACE DECIMAL ±.50

MATERIAL/FinISH:

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COMMENTS:
REMOVE ALL BURRS AND SHARP EDGES;
Square added for reference only. 8 in. square represents outer border of AprilTag feature.

ID 1

Dimensions are in inches. Tolerances: Fractional ±1/2, Angular: Mach ±1°, Bend ±1°. Two place decimal ±.50.

Material/Finish:

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Comments: Remove all burrs and sharp edges.

Do not scale drawing.
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<td>FE-00301</td>
<td>Side angle left</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>FE-00303</td>
<td>Side angle right</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>FE-00302</td>
<td>Cable protector top</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Flat Hex .25_20_.75</td>
<td>Flat Hex .25_20_.75</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>TeeNut ultra_split_rst_25_20</td>
<td>.25-20 TeeNut ultra split resistant</td>
<td>10</td>
</tr>
</tbody>
</table>
Notes:
1. Insert 5 10X in to the bottom of 1 and 2.
2. Attach 3 to 1 and 2 with 4 10X.
Align hook to edge and corner, 2 places

1" wide hook fastener, adhesive backed
SECTION A-A
End view
SCALE 1 : 1.5

10X \( \phi .27 \) THRU ALL
\( \sqrt{\phi .51 \times 82^\circ} \)

HDPE Black

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL \( \pm \frac{1}{16} \)
ANGULAR: MACH \( \pm 1^\circ \) BEND \( \pm 1^\circ \)
TWO PLACE DECIMAL \( \pm .01 \)
THREE PLACE DECIMAL \( \pm .001 \)

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
HDPE Black

FINISH

APPLICATION
DO NOT SCALE DRAWING

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UNLESS OTHERWISE SPECIFIED:

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:
HDPE Black

FINISH

NEXT ASSY
USED ON
APPLICATION

DO NOT SCALE DRAWING

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TITLE: Side angle right

UNLESS OTHERWISE SPECIFIED:

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:
HDPE Black

FINISH

NEXT ASSY
USED ON
APPLICATION

DO NOT SCALE DRAWING

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TITLE: Side angle right

UNLESS OTHERWISE SPECIFIED:

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:
HDPE Black

FINISH

NEXT ASSY
USED ON
APPLICATION

DO NOT SCALE DRAWING

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