



# Cantilever Super Heavy Duty Installation Manual



## AMERICANSURPLUS INC



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Contact your Salesperson.



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## Introduction

These Installations Instructions are made Available to assist in assembly of the ASI Cantilever.

### Including with each shipment:

Packing List  
Cantilever Layout  
Instruction on Build

### STEP 1:

Before Starting assembly, carefully read the instructions. Make sure you have all the necessary tools and parts laid out in front of you. It's helpful to organize the components in a logical order to streamline the process. Take your time to understand each step fully before proceeding, and don't hesitate to consult the instructions again if you encounter any difficulties.

### STEP 2:

Check the packing against the material received to ensure all parts are included and are not damaged. Carefully follow any assembly instructions provided, and use the recommended tools to avoid damaging any components. If you encounter any difficulties during assembly, don't hesitate to seek assistance from customer support or refer to a professional. Properly assembled, the product should meet all specified standards and provide reliable performance for its intended use.

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Call: Monday-Thursday 8 AM to 4:30 PM & Friday 8 AM to 11 AM for free support.

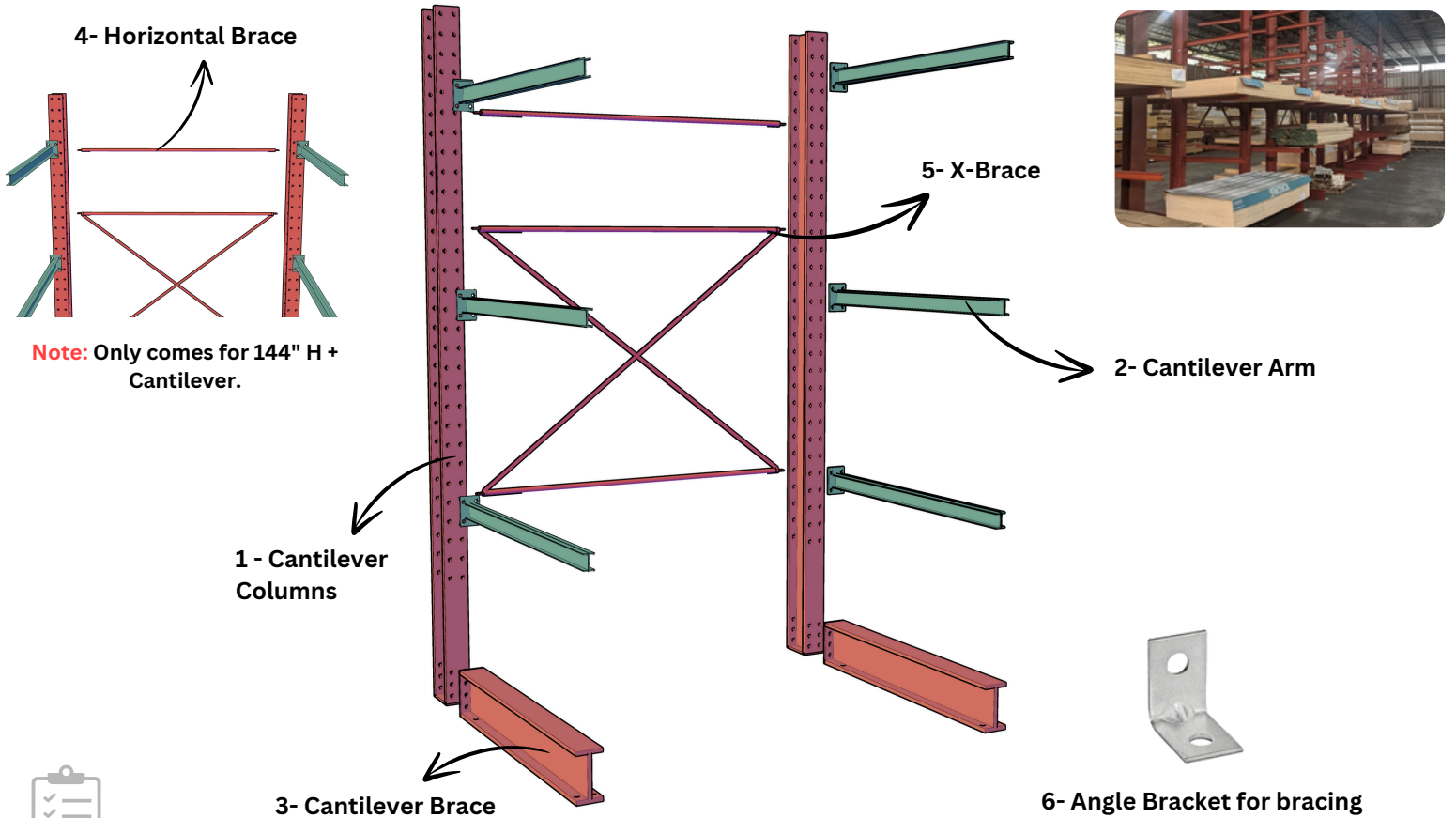
American Surplus Inc. does not bear any responsibility for installation guides and manuals. While we provide products and assistance, it is the customer's responsibility to ensure the safe and proper installation of the product.

We strongly recommend that customers consult with qualified professionals if they are unsure about any aspect of the installation process. Proper installation is crucial for the safety and performance of the product, and neglecting this responsibility could lead to damage or injury.

Thank you for choosing American Surplus Inc. we appreciate your business.



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### Also Includes :

- 3/4"x 2" Grade 5 Bolt -  
(For arms and base)
- 3/4" Grade 5 Nut -  
(For arms and base)
- 5/8" x 1-1/4" Bolt-  
(For bracing)
- 5/8" Serrated Flange Nut -  
(For bracing)
- 5/8" x 6" Floor Anchors  
(If Purchased)

**Note:** The bracing angle brackets come with the hardware and will need to be installed.

### Parts List

Cantilever Columns	1
Cantilever Brace	2
X-Brace	3
Horizontal Brace (144" +)	4
Cantilever Arms	5
Angle Brackets for Bracing	6

### Tool List Recommended

- 1- Electric Impact Wrench
- 2-Straight Line Laser or Chalk Line
- 3-Black Marker
- 4-Socket Wrenches
- 5-Impact Sockets
- 6-Air Compressor



## Layout and Preparation

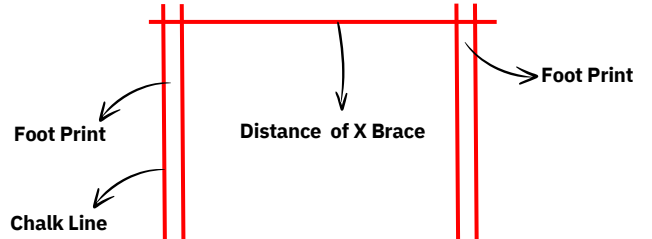
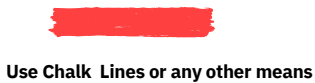
Layout and Preparation It is very important that all measurements are checked twice before assembling or cutting any materials.

### STEP 1

Clean the area by removing all debris and objects that might interfere with the assembly of your Cantilever.

### STEP 2

Lay out the rack footprint on the floor. Snap a down-aisle chalk line defining the main aisle, and snap cross-aisle chalk lines defining the edge of each cantilever baseline.(If you have more than Starter make additional chalk lines, for each addition.) **FIGURE 1**



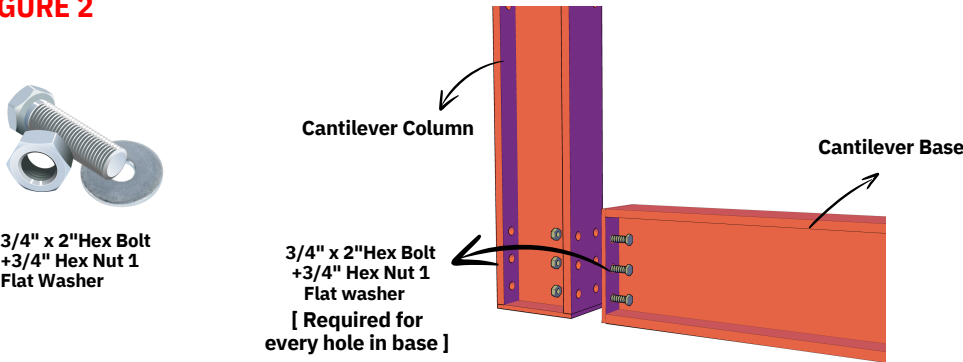
### STEP 3

Lay out the starter bay on the floor, consisting of two columns, the required bases, and the required arms.

### STEP 4

Connect the cantilever rack base to the column using the hardware supplied with your cantilever rack system.

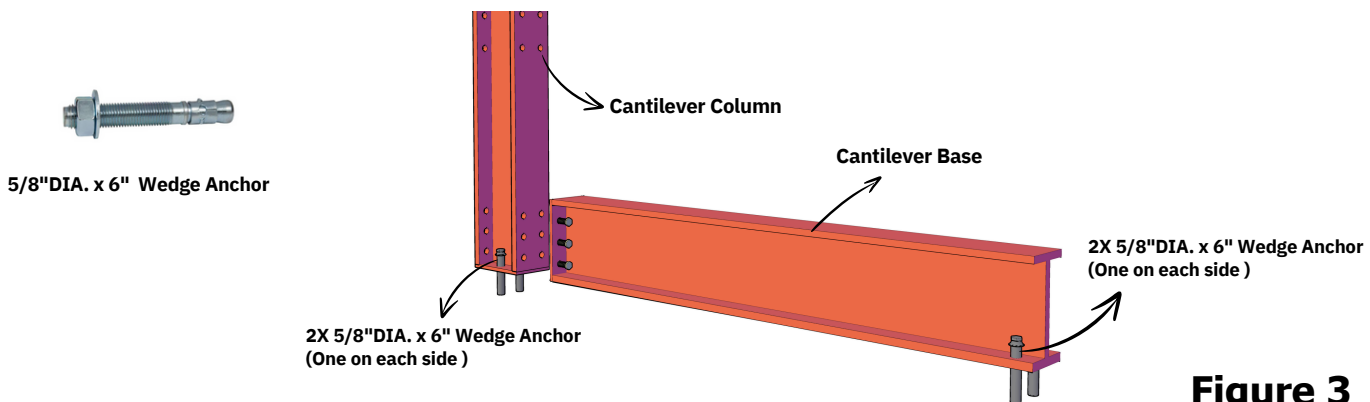
**FIGURE 2**



**Figure 2**

### STEP 4

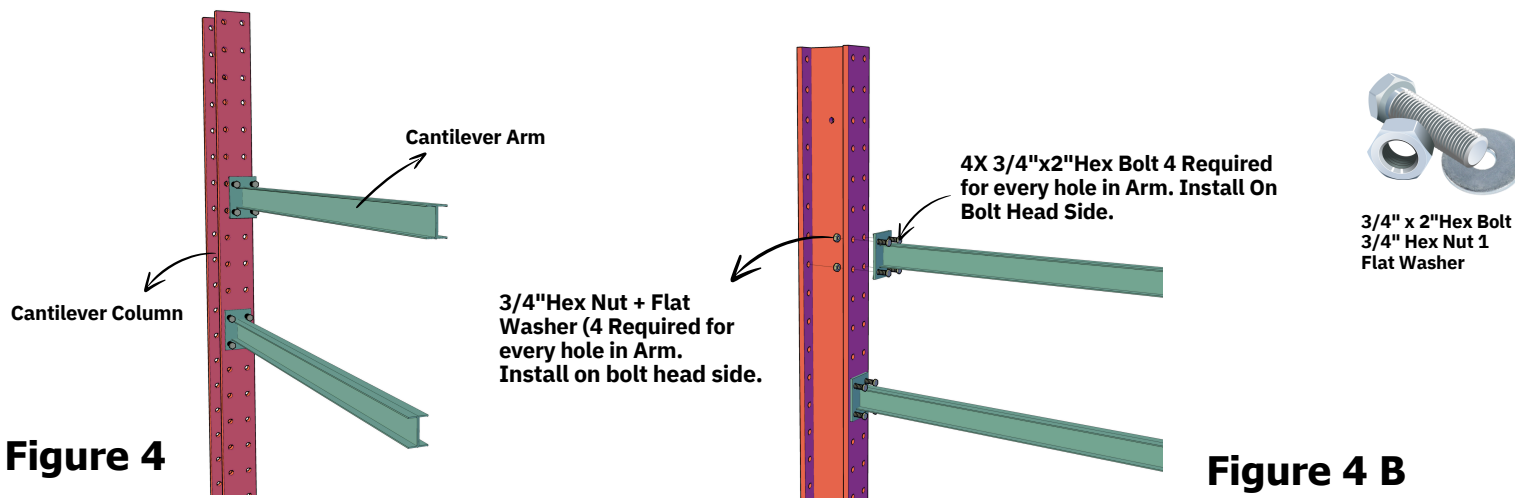
Install the wedge anchors into the cement floor with the hardware provided. **FIGURE 3**



**Figure 3**

### STEP 6

There are typically 4 bolts required per arm. Use the supplied hardware to connect the arms to your upright. Arm may be C-Channel, I-Beam or angle and hole patterns may vary. **Figure 4**

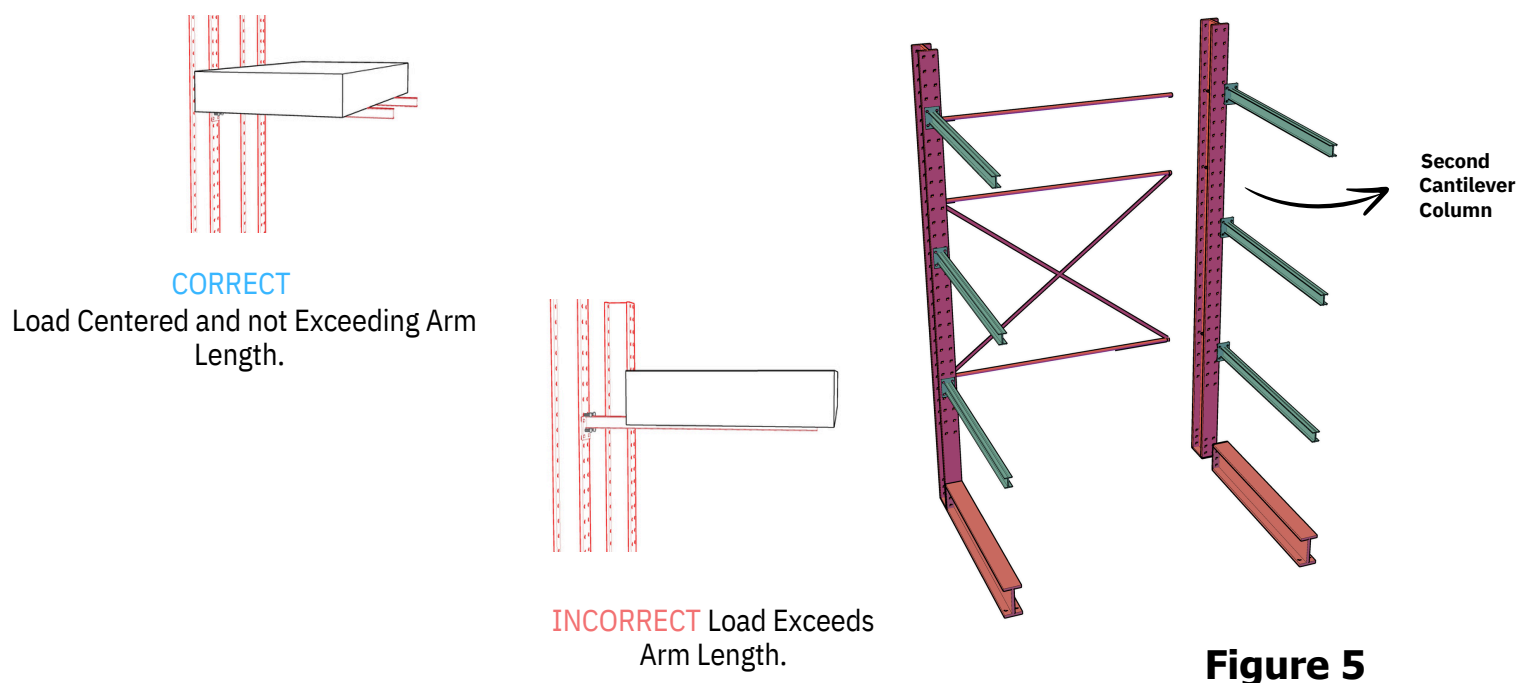


### STEP 7

If you are using pipe stops or arm lips, attach them to the front of the arm using the hardware provided. -it may come welded in place if so specified.

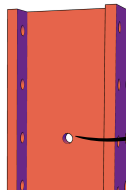
### STEP 8

Following steps 3 through 6, erect the second column of your cantilever rack system by securing the base to the column, installing the arms and any additional arm accessories. **Figure 5**



## Installation The X-Bracing

Before start of Step 1 the Angle Bracket that comes with the hardware needs to be Installed on the Cantilever Tree.



There is a Dedicated hole pre-Drilled for the Bracket.



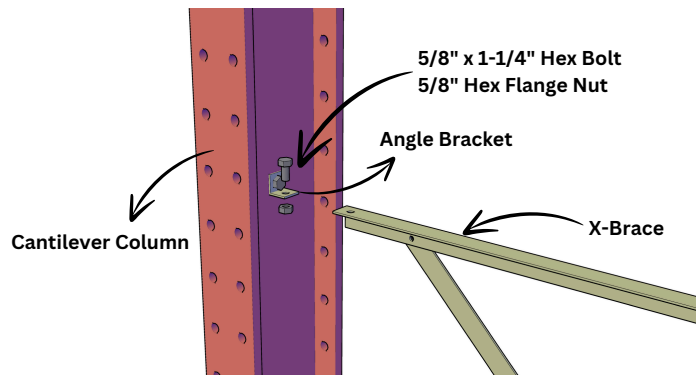
Angle Bracket for bracing

### STEP 1

Once both column and the arms are built, connect the bracing to the back of your cantilever rack system using the hardware provided by the manufacturer. Structural connectors need to be tightened to the snug-tight condition, which can be attained by a few impacts from an impact wrench or the full effort of a worker with an ordinary wrench that brings the connected plies into firm contact. **FIGURE 6**



5/8" x 1-1/4" Hex Bolt  
5/8" Hex Flange Nut



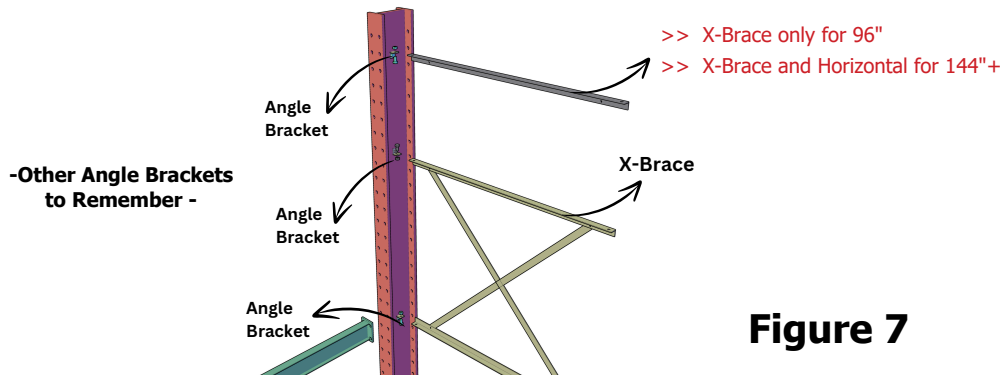
**Figure 6**

### STEP 2

Using the instructions outlined in steps 1 through 8, continue to erect and build add-On bays to supplement your starter bays until the ideal rack system and footprint are achieved



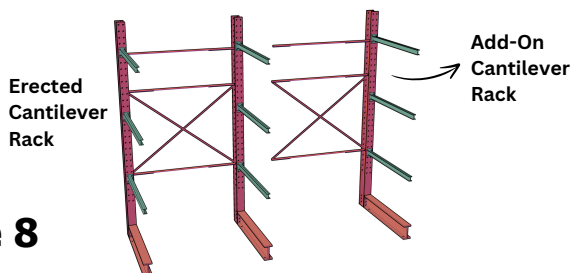
5/8" x 1-1/4" Hex Bolt  
5/8" Hex Flange Nut



**Figure 7**

### STEP 3

Following steps 3 through 6, erect the second column of your cantilever rack system by securing the base to the column, installing the arms and any additional arm accessories. **FIGURE 8**



**Figure 8**