

# Installation Guide | Centurion™ Field Modifications



## Before You Begin

Before you start, review the checklist to make sure you have all the right components and tools ready to go. Work smart and stay safe by following proper safety procedures and wearing the appropriate personal protective equipment.

For questions about these installation instructions, please contact us at [sales@spaceguardproducts.com](mailto:sales@spaceguardproducts.com) or **(812) 523-3044**, or reach out to your SpaceGuard Products sales representative.

For more details on the Centurion™ product line, visit: [www.spaceguardproducts.com/brands/centurion](http://www.spaceguardproducts.com/brands/centurion)

## Table of Contents

Tools & Safety Checklist.....	2
Component List .....	3
Installation Guide .....	4
Drop Cap .....	4
Beam Dodger .....	5
Beam Attachment Kit.....	6



# Installation Guide | Centurion™ Rack Repair Kits



## Tools & Safety Checklist

### Required Tools

#### Basic Tools

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Tape Measure         | <input type="checkbox"/> Step Ladder           | <input type="checkbox"/> Dead Blow Hammer |
| <input type="checkbox"/> Sharpie/Chalk Sticks | <input type="checkbox"/> Extension Cords       | <input type="checkbox"/> Shop Vac         |
| <input type="checkbox"/> Speed Square         | <input type="checkbox"/> Large Drift Punch Set | <input type="checkbox"/> Crowbar          |
| <input type="checkbox"/> Magnetized Level     | <input type="checkbox"/> Hammer                | <input type="checkbox"/> Caution Tape     |

#### Cutting Tools

- ☐ Sawzall with “FINE” tooth metal blades
- ☐ Portable Band Saw with “FINE” tooth metal blades
- ☐ Grinder with cutoff wheel and grinding flap discs

#### Drilling Tools

- ☐ Hammer Drill with 5/8”–3/4” concrete drill bits and a 5/8” rebar cutting bit
- ☐ Cordless Drill with step bit and drill bits up to 9/16”
- ☐ Reaming Tool (up to 9/16”)

#### Fastening Tools

- |  |  |
|--|--|
| <input type="checkbox"/> Impact Driver                             | <input type="checkbox"/> Impact Swivel Socket Set        |
| <input type="checkbox"/> Impact Drill                              | <input type="checkbox"/> Standard Allen Wrench Set       |
| <input type="checkbox"/> SAE Socket Set (3/4” deep well or longer) | <input type="checkbox"/> Torque Wrench (up to 110 ft-lb) |
| <input type="checkbox"/> SAE Ratchet Wrench Set                    |  |

## Pre-Install Safety Checklist

- ☐ **Steel Toe Boots:** Required; composite toes recommended for refrigerated environments.
- ☐ **Caution Tape:** Required to block off aisles; safety cones may be used in conjunction.
- ☐ **Eye and Face Protection:** As required by customer or per tools in use.
- ☐ **Arm Coverings and Gloves:** As required by customer or for specific tasks.
- ☐ **Hard Hats:** Always recommended.
- ☐ **Safety Vest:** Always recommended.

## Torque Value Chart

Hardware	Torque Value	Minimum Concrete Embedment
5/16”	17 ft-lbs.	-
3/8”	30 ft-lbs.	-
1/2”	75 ft-lbs.	-
3/8” Grade 5 Barrel Bolt	23 ft-lbs.	-
5/8” Concrete Anchor	90 ft-lbs.	2-3/4”




## Component List

**DROP CAP**  
CENT3DROPCAP-FIN




Drop Cap *x1*

**BEAM DODGER**  
CENT3BEAMDODGER




Beam Dodger *x1*

J



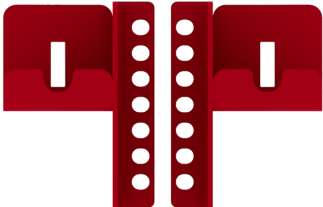
1/2"-13 x 1-1/4" Carriage Bolt *x2*

B

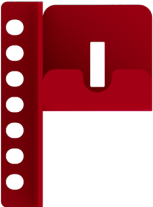


1/2"-13 Flanged Serrated Hex Nut *x2*


**BEAM ATTACHMENT**  
CENT3BEAMATTACH



Beam Attachment Right *x1*




Beam Attachment Left *x1*




Flip Shim *x2*

A



1/2"-13 x 4" Carriage Bolt *x6*

B



1/2"-13 Flanged Serrated Hex Nut *x6*

Page 3 | Centurion™ Field Modifications Installation Guide

Rev. 1.1 – August 2025

Copyright ©2025 SpaceGuard Products. All Rights Reserved.

# Installation Guide | Centurion™ Field Modifications

The components listed in this section are not included by default and must be purchased separately if needed.

## Drop Cap

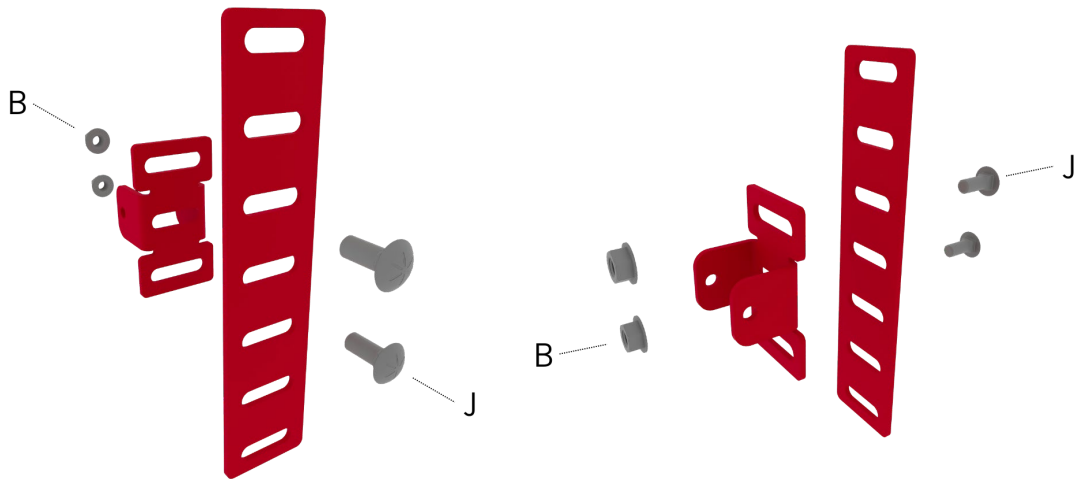
The Drop Cap is used to adjust the repair kit height when a shorter installation is required.



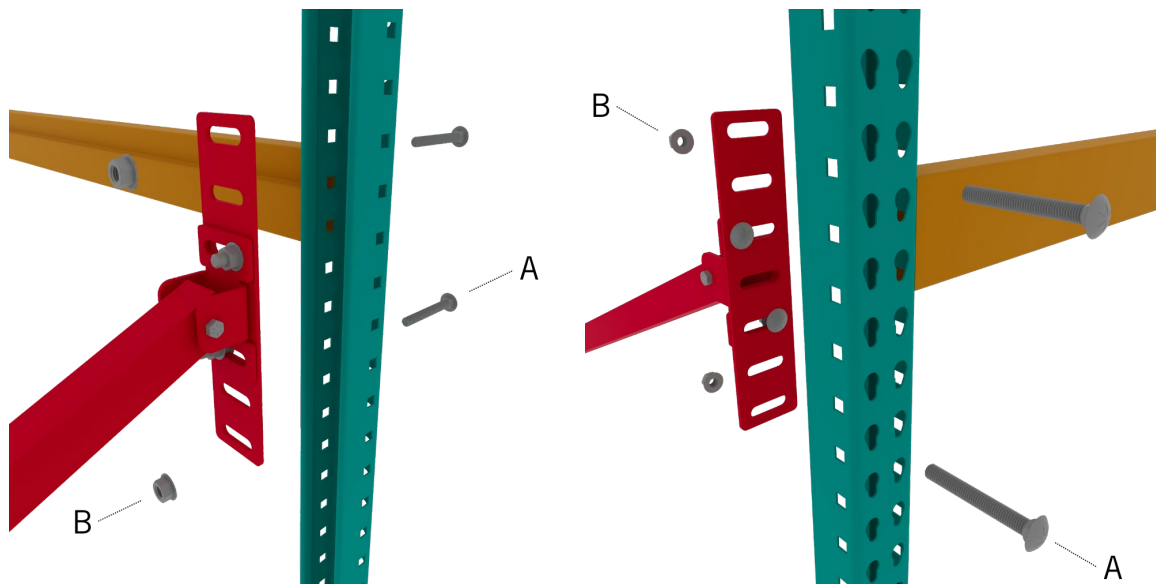
1. Cut down the repair kit to the desired height in 2" increments from the top.
2. Ensure the cut is square so the Drop Cap sits level.
3. Insert the Drop Cap and proceed with installation of the repair kit.

## Beam Dodger

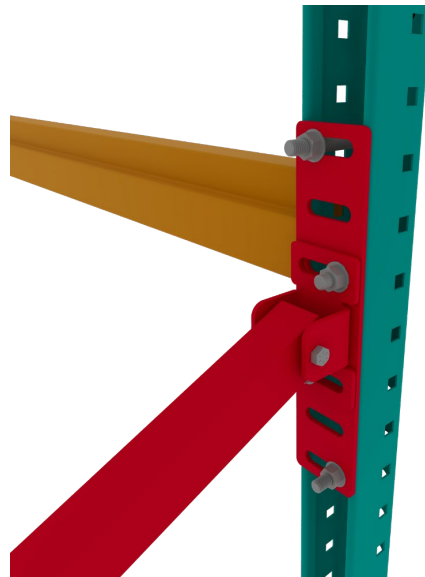
The Beam Dodger can be used to expand the installation area and allow for proper attachment if the beam appears to interfere with the bracing attachment point.



1. Attach the Beam Dodger to the Pivot Bracket using [2] carriage bolts (**J**) and [2] hex nuts (**B**).



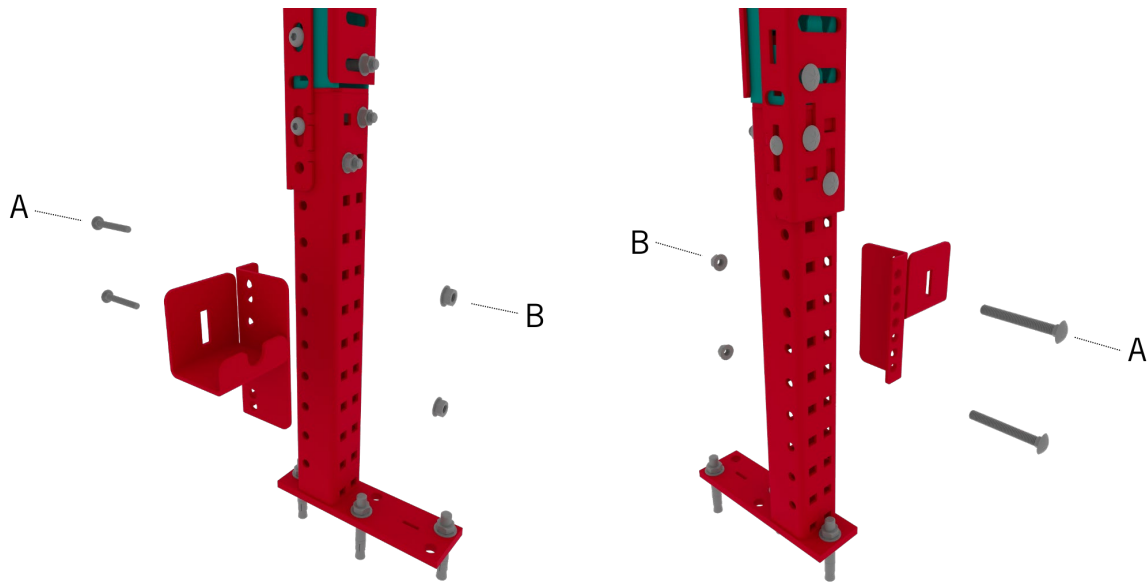
2. Secure the Beam Dodger to the upright using the [2] carriage bolts (**A**) and [2] hex nuts (**B**).



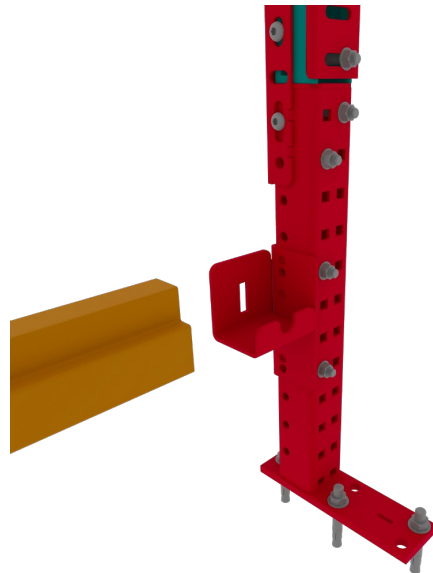
## Beam Attachment Kit

The Beam Attachment Kit is used when the required beam level interferes with the repair kit, allowing the beam to be reattached at the correct elevation without compromising the repair.

*Each kit includes a left- and right-hand bracket, but only one may be needed depending on your application.*

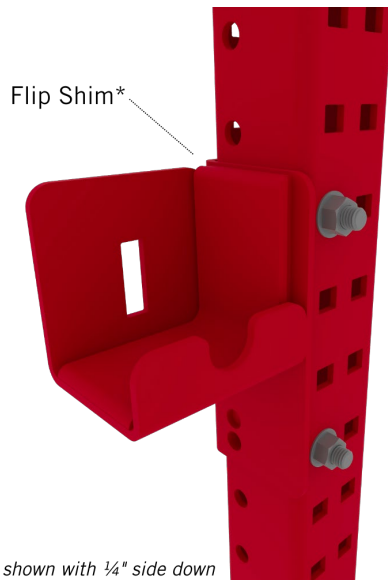


1. Attach the Beam Attachment to the rack repair kit at the height of the original beam using [2] carriage bolts (**A**) and securing with [2] hex nuts (**B**).

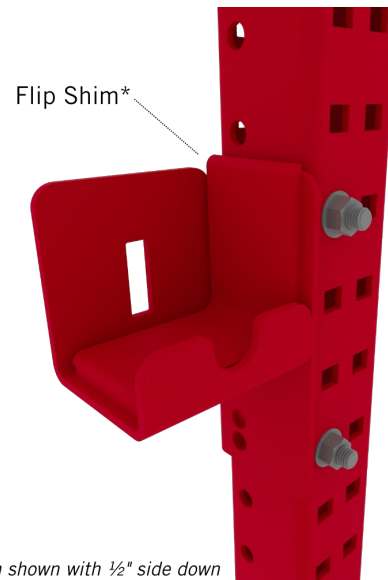


2. Cut the beam clip off the existing beam.

## Beam Attachment Kit (cont.)

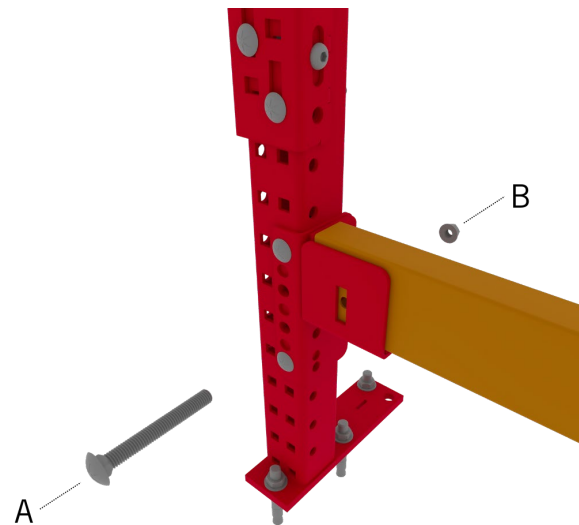
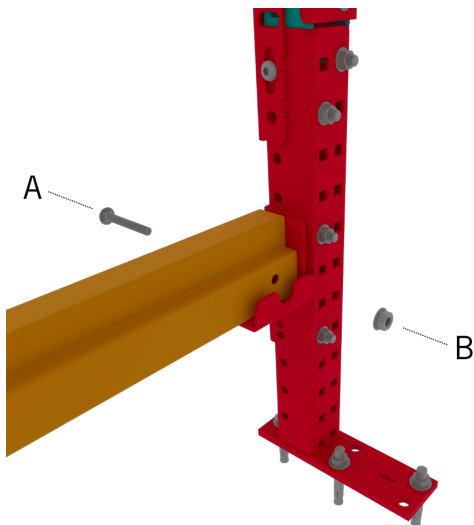


\* Flip Shim shown with 1/4" side down



\* Flip Shim shown with 1/2" side down

3. If the beam needs to be raised to achieve level alignment, use the supplied flip shim by placing either the 1/4" or 1/2" side down, depending on the required height adjustment.
4. Place the beam into the Beam Attachment and drill a 9/16" hole through the beam.



5. Secure the beam to the Beam Attachment using [1] carriage bolt (A) and [1] hex nut (B).

