Thank You For Purchasing
The Best Overhead Storage Rack

Assembly Instructions

Overhead Storage Rack
8' x 4' | 8' x 3' | 8' x 2' | 6' x 4' | 6' x 3' | 6' x 2' | 4' x 4'

Two 8'x4' Racks Pictured

P.O. Box 714, El Cerrito, CA 94530
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U.S. Patents D553,401 / 7,357,262 / D697,785 Other Patents Pending
Our goal is to provide the highest quality ceiling racks designed to utilize wasted space in your garage. We pride ourselves on delivering the best product while supporting it with outstanding service.

Before You Start: This installation is intended for wood framed homes, if your home is steel framed, stop the installation and call (510) 260-0590.

WARNING

This is a Do-It-Yourself (DIY) project. Do not attempt this installation without a basic understanding of the contents in these assembly instructions. If you are not confident with locating and anchoring the storage rack to the ceiling joists, do not attempt this installation, consult a qualified contractor.

DO NOT EXCEED THE WEIGHT LIMITS

<table>
<thead>
<tr>
<th>Frame Size</th>
<th>Weight Limit</th>
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<tbody>
<tr>
<td>8’ X 4’ Frame</td>
<td>600 lbs.</td>
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<tr>
<td>8’ X 3’ Frame</td>
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<td>8’ X 2’ Frame</td>
<td>400 lbs.</td>
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<tr>
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<td>500 lbs.</td>
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<tr>
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lbs=US Pounds

This weight limit is based on a statically loaded storage rack anchored to a wood framed garage. The joists must have a minimum 2” x 6” (standard lumber) cross section, 24” (or less) apart, with at least 2” of penetration from each lag screw used. For truss framed garage ceiling structures, joists with a 2” x 4” (bottom truss cord) cross section is acceptable. The weakest point in this system is the frame of your house.

Load the overhead storage rack evenly. Load heavy objects nearest the vertical posts and light objects nearest the center. Read the safety label on the rack and do not overload the storage rack. Do not climb on or hang from the storage rack. Routinely inspect the storage rack to ensure rivets and wire decking units are seated properly. The storage rack may experience some deflection the closer the maximum load is approached.

BOTTOM LINE: Be careful. These instructions and warning do not replace your sound judgement and decision making. If, for any reason, you feel the quality of your ceiling structure is in question, discontinue the installation process immediately. Use the storage rack wisely and enjoy your new found space!
Overview

Please read through the assembly instructions completely before proceeding to installation. Once you understand all of the installation steps, proceed with the installation.

(These instructions depict a 4’x8’ size rack being installed; all size racks can be installed based on the same steps taken with different measurements depending on rack size)

Installing Ceiling Brackets

- Install one ceiling bracket per corner
- Each ceiling bracket fastens to 2 separate joists

Installing Vertical Posts

- Each vertical post is made from 2 pieces
- The two pieces adjust to the length from the ceiling you want the rack to hang.

Installing Beams, Center Support & Decks

- The horizontal beams and center support will attach to the vertical posts
- The decks are placed on the beams to complete your rack installation.
Gathering Tools And Materials

Before you begin, gather the required tools and components listed below and ensure all are accounted for.

If any of the listed components in your packaging are missing, please call (510) 260-0590 To have them sent directly to you.

**Required Tools:**
- Safety Glasses
- Pencil or Pen
- Sturdy Ladder
- Rubber Mallet *(do not use a hammer, you will mar the surface)*
- Flat Head Screwdriver
- Tape Measure
- Socket Wrench Set and/or Open End Wrench or Adjustable Crescent Wrench
- Drill Driver *(Capable of Drilling 3” Deep)*
- 3/16” Drill Bit
- Socket Driver

**Optional: Stud Finder** *(If Ceiling is Covered with Drywall)*

**Components:** (Pictures Available on Next Page)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>8 Vertical Posts</td>
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<tr>
<td>2 48” Side Beams</td>
<td>2 36” Side Beams</td>
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<tr>
<td>2 96” C Channel Beams</td>
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<tr>
<td>1 48” Center Support</td>
<td>1 36” Center Support</td>
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<tr>
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<tr>
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**Hardware Bag (For All Racks):**
- 12 1/4”-20 Serrated Locking Nuts
- 12 1/4”-20 X 3/4” Hex Bolt *(Grade 5)*
- 8 3” Lag Screw
- 32 5/16” Washer
- 4 10-24 Slot Head Bolt *(Not In 4X4)*
- 4 10-24 Wing Nuts *(Not In 4X4)*
Components:

Vertical Post

Ceiling Bracket

C Channel Beam

Center Support

Side Beam

Wire Decking Unit

Hardware:

Hex Bolt  Washer  Wing Nut  Slot Head Bolt  Serrated Locking Nut

Lag Screw
Before You Start: This installation is intended for wood framed homes, if your home is steel framed, stop the installation and call (510) 260-0590.

1. Finding The Perfect Location

- Identify the ceiling location where the overhead rack will be installed. (*Remember you will be utilizing at least the same area on the ceiling as the size rack you are installing.*)

- Determine how far down from the ceiling you want the rack to hang. (*Be sure to take into consideration objects that could come into contact with the racks: garage doors, garage access doors, overhead lights, automobiles or auto parts, etc.*)

- If the garage ceiling is finished with drywall, use a stud finder and locate the ceiling joists that are in the area of the installation.

- Determine the joist direction that applies to the installation:
  - In most cases, joists will run from the front of the garage to the back
  - In other cases, they will run side to side
  - In rare cases, ceiling joist may be at odd intervals, greater than 24” apart, or even switch directions in different parts of your ceiling
  
  (If this is the case please contact us and we can supply longer ceiling brackets to suit your needs.)

2. Installing The Ceiling Brackets

- Once the location of the rack has been identified, use a stud finder to locate the joist on either side of where you intend the first vertical post to hang.

- Mark the edges and center of each joist. (Figure 1)

  **Mark Both Sides and Center of the Ceiling Joist**

- If needed, verify the edges and center of the joist by using a small nail or screwdriver and punching holes along your pencil lines. (Figure 2)

- Using a 3/16” drill bit, drill a pilot hole 3” deep at each center marked location. **Ensure that the holes are in the center of each joist.**
  
  Screw the 3” lag screws through the ceiling bracket into the drilled pilot holes using a washer under the head of each screw. (Figure 3)
Bracket Installation Options:

Option 1: If the ceiling bracket is being placed in the corner of the wall and ceiling, and 2 joists are not available for anchoring, you can install the lag bolts at a 45° angle into the wall header if one is present. (Figure 4A)

Note: Install the ceiling bracket 1 1/2" from the wall, so that you can install the nut and bolt for the vertical post in the next step. (Figure 4B)

Option 2: If the vertical posts are centered on a wall stud, you can screw the vertical post directly to the wall stud. Use 3 washers total per lag screw, 2 against the wall and 1 on the head of the lag screw. (Figure 5)

Note: Install the lag screws loosely at first to ensure room for assembly of the rack and wire decking which sits over the lip of the rack.

- Once the first ceiling bracket is installed, measure for the remaining brackets (Figures 6 & 7 on the following page).
- For the short side, measure 48 1/2" to the location of the next bracket. (36 1/2" or 24 1/2" for other rack sizes)
- On the long side, measure 96 1/2" to the location of the next bracket. (72 1/2" or 48 1/2" for other rack sizes)
Bracket Installation Options: (cont.)

Note:

• If the ceiling brackets are facing each other, measure directly from the back of one bracket to the back of the opposite facing bracket. (Figure 8)

![Figure 8](image1)

Ceiling Brackets

48 1/2” or 96 1/2”

• If the brackets are in-line, the measurement can be from one edge of the bracket to the same edge on the next bracket. (Figure 9)

![Figure 9](image2)

Ceiling Brackets

48 1/2” or 96 1/2”

• The measurement could also be taken from a point in the middle of the bracket where the vertical post is expected to hang. Or, if the joist spacing is consistent across the ceiling, you can count the number of joists for the correct distance between the brackets.
3. Assembling And Attaching The Vertical Posts

IMPORTANT: Ensure the skinny sections of the teardrop holes are facing down, and that all vertical posts are adjusted to the exact same length.

- Adjust the length of the vertical posts to the desired distance from the ceiling.
- Ensure the lower section of the vertical post is placed on the inside of the two post pieces.
- Secure these posts together using two nuts, two bolts, and two washers. Ideally put one nut and bolt assembly on each face of the vertical posts. One bolt at the top and the other at the bottom, where the vertical post sections overlap. (Figure 10)
- Next, using a single bolt with two washers (one on each side) and a locking nut, connect the first vertical post assembly to the ceiling bracket that was installed in the previous step. (Figure 10)

Notes:
- For now, leave the vertical posts slightly loose on the ceiling brackets so that they can move back and forth during the next step. They will be tightened down in the upcoming steps.
- When installing the vertical posts to ceiling brackets that are in-line (Figure 9), ensure that the vertical posts are 48 1/2" or 96 1/2" apart (depending on the orientation of the rack).

Ceiling Brackets and Vertical Posts Diagram

Our ceiling brackets are intended to be installed with a minimum of two Lag Screws. Please refer to the figures below for the correct way of positioning the vertical posts on the ceiling bracket.

Installed Correctly

ALWAYS install the vertical posts between the lag screws in the ceiling bracket. (Figures 11 & 12)

Installed Incorrectly

DO NOT attach the vertical posts outside of the lag screws in a cantilevered fashion. (Figures 13 & 14)

WARNING: If you install the ceiling bracket & vertical posts as shown in (Figure 13), the ceiling brackets will bend, causing your storage items to fall to the floor. (Figure 14)
4. Attaching The Outside Frame

**WARNING:** Opposite ends may come loose when hammering beams in place. Use a helper to ensure rivets do not come loose during the seating process.

- Once all vertical posts are in place, install the side beams.
- Place the rivets of the beams in the bottom 2 holes of the vertical posts (Figure 15).
- Ensure the small lip is on the top, and that the side beams are on the inside of the vertical posts (Figure 16).
- Use a rubber mallet to hammer the rivets into the bottom of the teardrop holes (Figure 17).
- Finish with installation of the C Channel Beams.
- Line up the 45 degree on the end of the small lip to the same angle on the side beams. Each corner should look like (Figure 18).

**NOTE:**

- If the rivets are not seating correctly, check if the vertical posts are truly vertical.
- If the vertical posts are at an angle, the rivets will not seat properly.
- Make adjustments to the placement of the vertical posts or ceiling brackets if the vertical posts are severely out of alignment.
5. Attaching The Center Support
• Connect the center support (not included with 4x4) using the remaining slot-head bolts and wing nuts. (Figure 19)
• Use a flat head screwdriver to fully tighten the bolts to the wing nuts.
• Once the center support is installed go back and tighten the vertical posts to the ceiling brackets. (Figure 20)

6. Placing The Wire Decking
• Take the wire decking and place it on the rack unit. (Figure 21)
• Wire decking remains in place by gravity and can slide freely side-to-side.
• There will be a small space between each deck. (Figure 22)

• Take one last look at all of the rivets to make sure they have not backed out during the installation process.
• Look at the ceiling brackets and lag screws to make sure they have not pulled out during the beam seating process. If they have, the lag screws may not be in the center of the ceiling joist, or they were not fully tightened when installed.
• Finally, check all the nut and bolt connections on the vertical posts and ceiling brackets to ensure that everything is tight.

REFER TO THE WARNING PAGE ON INSIDE COVER OF THIS MANUAL FOR ADDITIONAL INFORMATION

Congratulations! You have successfully installed your new rack. Enjoy the extra space that you have created.
Multiple Racks:
- If installing multiple racks, end-to-end or side-by-side, a 27” ceiling bracket should be utilized per corner, per rack.
- At the corners where 2 vertical posts will be hanging side by side, install the ceiling brackets back to back and utilize 2 lag bolts per bracket as outlined on this page and page 2 (Figure 3). Depending on the direction of the ceiling joist in relation to the racks, the vertical posts will either be located on opposite sides of the ceiling brackets, or they will be located on the same side of the ceiling brackets. In either orientation, run the hex bolts through both ceiling brackets.

Accessories Sold Separately Online:
- Increase the storage capacity and/or functionality of your overhead racks with these popular accessories.
- We offer many accessories including: rail hooks, utility hooks, deck hooks, twin head laser parking sensor, netting, extension cord reels, and work light reels.
- Call (510) 260-0590, or log onto www.betterstoragesolution.com, to order these functional accessories for your new overhead rack.

**Deck hook**
The deck hook is designed for easy installation; just snap into place with the flat top ranging over two wires.

**Rail hook**
The rail hook is similar to the deck hook in its shape, but is designed to hold items around the edge of the rack.

**Utility hook**
The utility hook is designed for longer items and it attaches to the vertical posts with bolts, washers & locking nuts.
Questions Or Concerns?
Our racks are engineered and designed to be the strongest garage overhead storage rack available. If you have any questions or concerns we are available to help you over the phone at (510) 260-0590. Our customer service is waiting to answer any questions you might have.

Need Help With Installation?
If you have read through these instructions and have decided that you do not feel comfortable or do not want to spend the time installing this rack yourself, no problem. We may have a Certified Dealers in your area that would be happy to install your new racks for you. Call us at (510) 260-0590.
LIMITED LIFETIME WARRANTY

For a period of (30) thirty days from the date of purchase, should you not be satisfied with your product, you are entitled to a full refund less taxes, shipping & handling costs paid by the buyer.

What Is Covered? A Better Storage Solution. (ABSS) warrants its overhead storage rack materials from manufacturing defects and defects from the product’s workmanship for the lifetime of the product. The Limited Lifetime Warranty applies to the original Purchaser. The original Purchaser must provide the original sales receipt and proof of purchase from an approved dealer with any request for warranty claims.

What Will ABSS Do? During the warranty period, ABSS will repair or replace any product that fails to perform to ABSS specifications. Such repair or replacement shall be determined by ABSS and shall be limited to necessary adjustments or parts replacement and does not include re-installation at the installation site. Re-installation is the responsibility of the original Purchaser. This warranty does not cover any labor costs associated with service, removal or re-installation of parts. At the option of ABSS, the original purchase price may be refunded to the original Purchaser for a full refund and complete compensation of defect. Please contact the ABSS Dealer with whom the original purchase was made. Taxes, shipping and handling charges will be the sole liability of the original Purchaser.

What Is Not Covered? The warranty applies to the original Purchaser for home, personal use only. No coverage is provided if the product is transferred to another structure. The original Purchaser must provide proof of purchase and the original receipt for coverage to be in effect. The warranty will be in effect only when the storage unit is properly installed by the original Purchaser or certified dealer and the defect is not a result of improper or abusive treatment or improper installation. Coverage is not provided for discoloration, corrosion, rust or physical damage. Damage is not covered if storage loads are not evenly dispersed, as outlined in this manual, or the maximum load capacity exceeds those listed in this manual. If any other parts (not provided by the ABSS manufacturer) are used in conjunction with the ABSS product, the warranty shall be void.

The Warranty Will Not Be In Effect Should The Installation Not Adhere To The Published Installation Instructions Provided With Each Unit. The Warranty Does Not Provide Coverage If The Product Malfunction Is Due To Shipping Damage, Product Modification, Improper Installation, Improper Maintenance, Effects From Being Contacted With A Vehicle Or Any Of Its Parts, Or Claims Made Outside The Warranty Period.

Warranty Limitations: No other warranties are expressed or implied for the storage product. In the absence of an implied warranty period under state law, seven years shall be the term of the implied warranty. ABSS makes no other warranties under the terms of the Limited Lifetime Warranty and the option of repair or replacement is ABSS’s only obligation. ABSS is not responsible for any other special, consequential (including substrate failure) or incidental damages resulting from the purchase or installation of the unit, regardless of cause. Liability for any such losses (including, but not limited to, financial loss, or loss of facilities use) regardless of cause or breach of implied warranty is expressly disclaimed and excluded herein. Upon installing any ABSS overhead storage unit, the customer agrees that he/she is utilizing the ABSS overhead storage unit for personal, non-commercial, use only. By installing any ABSS overhead storage unit, the customer agrees to the warranty and agrees that the delivered product was to his/her satisfaction and that installation was done per the - instructions outlined in the “Assembly Instructions” manual provided with the purchased unit.

How State Law Relates To The Warranty: Please consult your state’s laws regarding warranties. You may have rights in addition to the Limited Warranty. Some states do not allow limitations on how long an implied warranty lasts or limitations on incidental or consequential damages. So the above limitations or exclusions may not apply to you.

Outside the 50 United States and Canada, this warranty does not apply.

Keep this document and your sales/installation receipt together for future reference. To activate this warranty, you must register your products within 30 days of purchase. You can register at www.betterstoragesolution.com; these documents are required for warranty service.