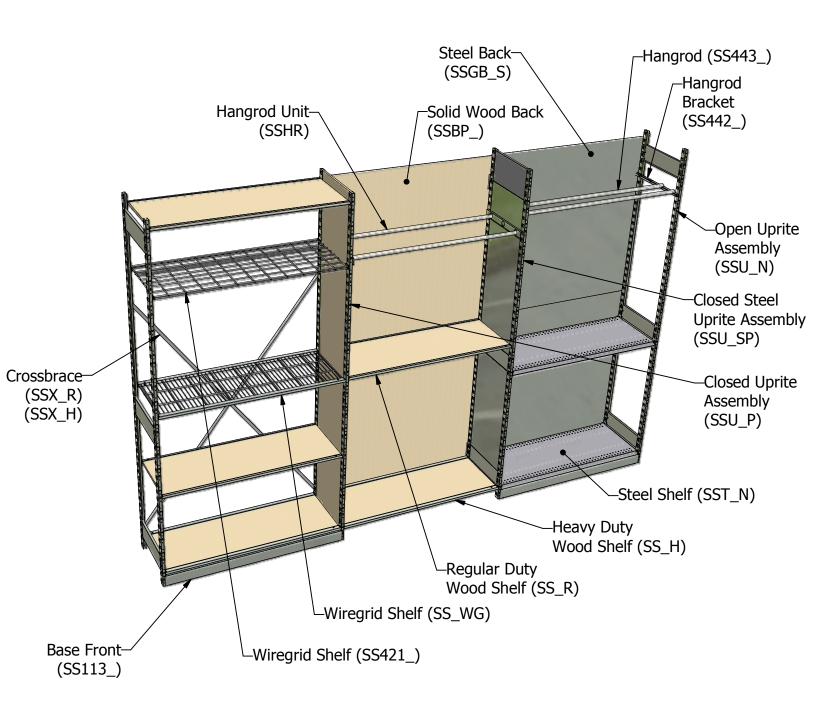
### S-SERIES STORAGE SHELVING



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6336 PERSHING DRIVE OMAHA, NEBRASKA 68110 (800) 228-9882 01-44 REV. AA PCR# 61181 9/25/2008 PAGE 1 OF 21

#### **S-SERIES STORAGE SHELVING**

## SYSTEM ASSEMBLY INSTRUCTIONS

| Basic Storage Shelving     |  | Pages 3 thru 7   |
|----------------------------|--|------------------|
|                            | Open Uprites<br>Crossbrace stabilizing<br>Wood storage shelves<br>Back-to-Back run instructions  |                  |
| Closed Wood Storage Shelv  | /ing   | Pages 8 thru 11  |
|                            | Closed Uprites<br>Solid Wood Backs<br>Wood storage shelves<br>Back-to-Back run instructions  |                  |
| Steel Storage Shelving (Op | en and Closed)   | Pages 12 thru 15 |
|                            | All Steel Uprites, Open or Closed<br>Steel storage shelves<br>Crossbraced or Steel Backs<br>Back-to-Back run instructions                    |                  |
| SYSTEM & SHELF LOAD C      |  | Pages 16 & 17    |
|                            | <b>Shelf Options</b><br>Regular duty wood storage shelf<br>Heavy duty wood storage shelf<br>Steel storage shelf<br>Wiregrid storage shelf(s) |                  |
| ACCESSORIES                |  | Page 18          |
| SYSTEM STABILIZING         | REQUIREMENTS   | Pages 19 & 20    |
| PRODUCT SAFETY INF         | ORMATION   | Page 21          |
|                            |  |                  |

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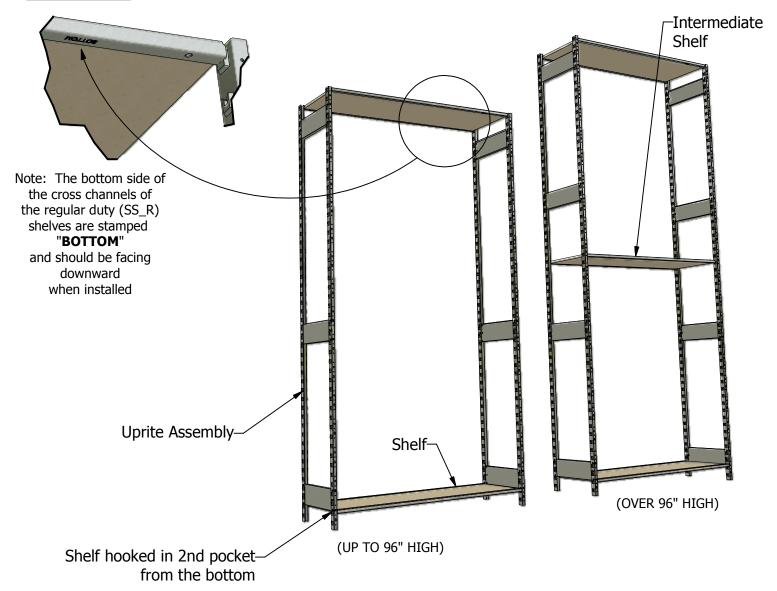
01-44 REV. AA PCO# 61181 9/25/2008 PAGE 2 OF 21

## **BASIC SYSTEM ASSEMBLY INSTRUCTIONS**

STARTER SECTION

# <u>CAUTION</u>: AT LEAST TWO PEOPLE ARE REQUIRED TO STABILIZE THE SYSTEM DURING ASSEMBLY.

# **WARNING!**: REFERENCE PAGE 21 FOR **PRODUCT SAFETY INFORMATION**.



1. Hold two (2) Uprite assemblies vertical and hook tabs of a shelf into the 2nd pocket from the floor.

2. Install a shelf near the top of the Uprites and install an intermediate shelf on taller uprites. (Over 96" high) This will help stablize the section. Reference pages 16 & 17 for shelf styles and for proper shelf orientation.

**WARNING!** TO STABILIZE THE FINISHED SYSTEM, A BOTTOM SHELF SHOULD BE INSTALLED WITHIN 6" OF THE FLOOR (UNLESS FLOOR ANCHORS ARE USED. SEE PAGE 7) AND A TOP SHELF WITHIN 12" OF THE TOP OF THE UPRITE, AND SHELVES SPACED NO MORE THAN 48" IN EACH SECTION ON THE RUN TO MAINTAIN THE RATED LOAD CARRYING CAPACITY OF THE SYSTEM. SEE **SYSTEM & SHELF LOAD CAPACITIES** PAGES 16 & 17.

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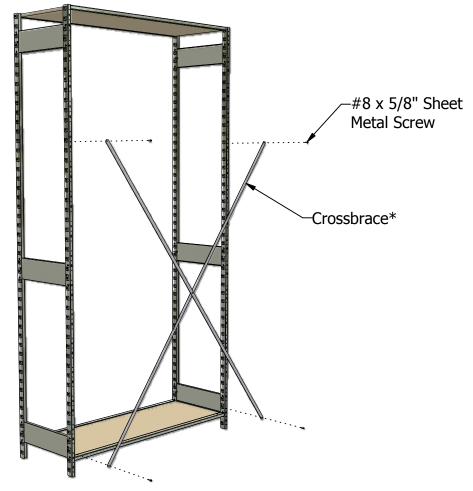
6336 PERSHING DRIVE OMAHA, NEBRASKA 68110 (800) 228-9882 01-44 REV. AA PCO# 61181 9/25/2008 PAGE 3 OF 21

## **BASIC SYSTEM ASSEMBLY INSTRUCTIONS**

## STABILIZATION WITH CROSSBRACES

3. All shelving runs should be stabilized on the first section, last section, and every fourth section between. With the #8 x 5/8" sheet metal screws provided, attach the crossbrace to the Uprites using the small holes on the face of the Uprite. On Uprites higher than 8', two crossbraces are required, one above the other. See SYSTEM STABILIZING REQUIREMENTS pages 19 & 20 for specific style and quantities for your specific uprite height.

**WARNING!** DO NOT USE POP RIVETS TO FASTEN CROSSBRACES TO UPRITES. ALWAYS USE #8 SHEET METAL SCREWS OR UPRITES MAY BECOME SEPARATED UNDER LOAD, CAUSING A POTENTIAL HAZARD. (BRACES MUST BE LOCATED AS SHOWN BY **SYSTEM STABILIZING REQUIREMENTS** PAGES 19 & 20.)



#### TO DETERMINE THE CORRECT CROSSBRACE TO USE MEASURE THE LENGTH OF THE CROSSBRACE AND USE THE FOLLOWING CHART:

| *ACTUAL LENGTH OF CROSSBRACE |   |                           |               |             |
|------------------------------|---|---------------------------|---------------|-------------|
| Section                      | Section 36", 48 ", 60"<br>Width Uprites | 72", 84 ", 96"<br>Uprites | 108" & Higher |             |
| Width                        |   |                           | Lower Brace   | Upper Brace |
| 36"                          | 47 1/2"                                 | 74 1/16"                  | 74 1/16"      | 74 1/16"    |
| 48"                          | 57 3/16"                                | 80 5/8"                   | 80 5/8"       | 80 5/8"     |

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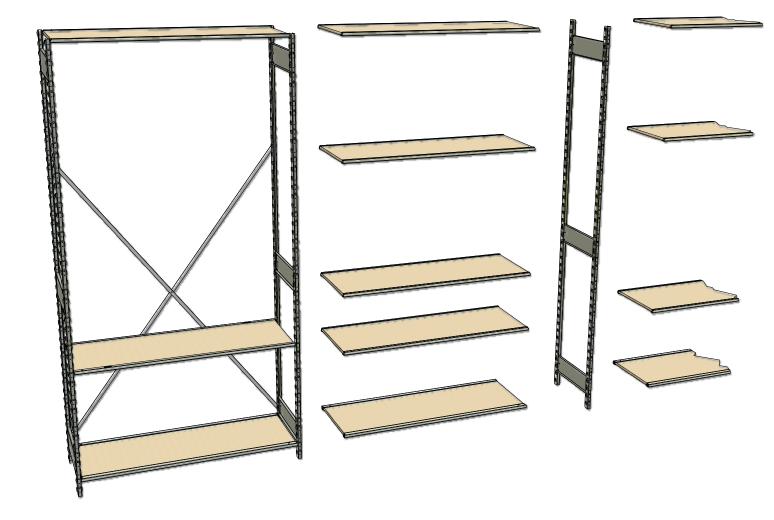
6336 PERSHING DRIVE OMAHA, NEBRASKA 68110 (800) 228-9882 01-44 REV. AA PCO# 61181 9/25/2008 PAGE 4 OF 21

## **BASIC SYSTEM ASSEMBLY INSTRUCTIONS**

#### **ADDING SECTIONS:**

4. Hook shelf tabs into pockets in line with one of the center shelves of the starter section. Hook tabs at other end of shelf into pockets of free uprite. Install remainder of shelves at required positions. Crossbraces should be attached as instructed by **SYSTEM STABILIZING REQUIREMENTS** Pages 19 & 20.

**WARNING!** THE SHELVES MUST BE LEVEL AND EACH CORNER MUST FULLY ENGAGE THE UPRITE POCKET.



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#### S-SERIES STORAGE SHELVING

## **BASIC SYSTEM ASSEMBLY INSTRUCTIONS**

## **BACK-TO-BACK RUNS WITH CROSSBRACES**

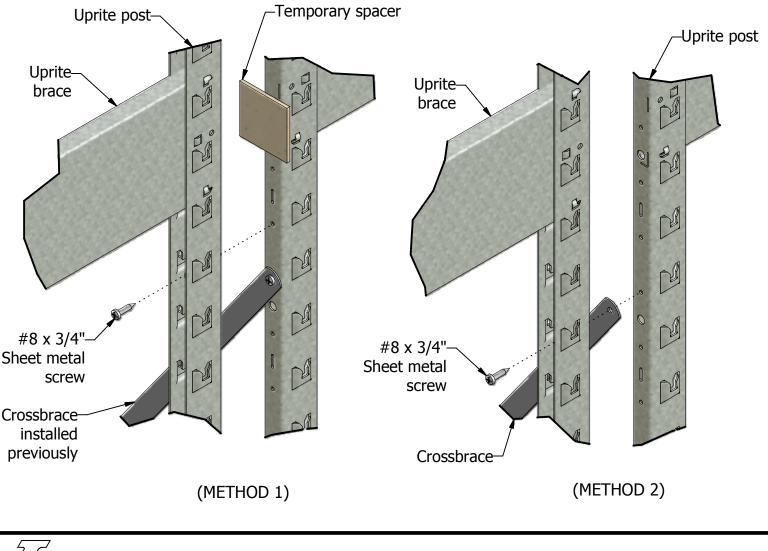
- 5. The sections in the back-to-back runs must be fastened to one another. There are two ways to do this:
  - (1) Install cross-braces on one run first and then screw the uprites of the second run to the first;
  - (2) Install cross-braces at the same time that the back-to-back uprites are screwed together.

(See illustrations of the methods)

CAUTION: When (2) Uprites are secured together, a #8 x 3/4" screw should be used. (See page 18)

6. Fasten the back to back runs together with #8 x 3/4" sheet metal screws. If method (1) above is used, hold an 1/8" thick, temporary spacer between the uprite posts (except where the crossbrace screws are located) to maintain post spacing while they are being fastened together. Remove and re-use spacer. If method (2) above is used, the screw must go through one post, then the crossbrace, then the other back-to-back post, as shown.

IMPORTANT: All back to back posts must have one screw within 18" of the top of the uprite, one within 18" of the bottom, and intermediate screws no more than 36" apart.



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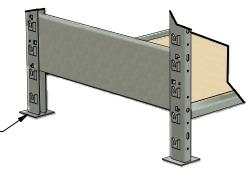
# BASIC SYSTEM ASSEMBLY INSTRUCTIONS

## FLOOR PROTECTORS/SHIMS

Floor protectors/shims are used to protect floors when required by the customer and to aid in leveling the system (by stacking the shims) when required. Install shims after assembly of the Starter Section by using 4' long level or plumb bob. Upon determining which side needs to be raised, lift one uprite at a time and then position shim(s) as shown.

#### <u>WARNING:</u> DO NOT STACK MORE THAN (5) SHIMS UNDER AN UPRITE POST. ALWAYS CENTER SHIM(S) UNDER THE POST.

NOTE: FLOOR PROTECTORS/SHIMS CANNOT BE USED IN CONJUNCTION WITH FLOOR ANCHORS.





# **FLOOR ANCHORS**

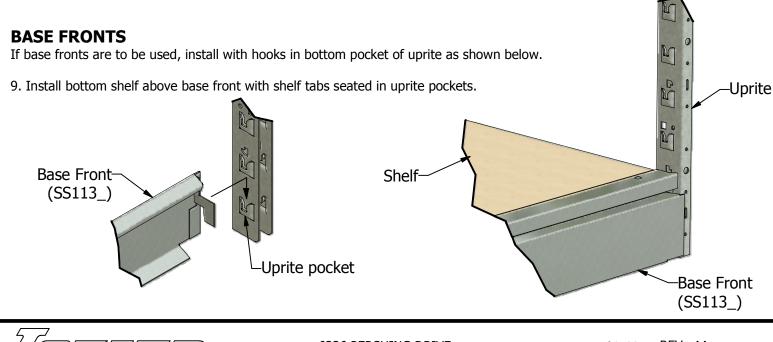
Floor Shim (SSFS)

8. Place the floor anchor under the uprite post.

Attach the anchor to the uprite post with a  $#8 \times 5/8$ " long washer head screw. (the floor anchor is designed to be used with commonly available anchor studs. Follow the installation instruction provided with the anchor studs or the recommendations a structural engineer to satisfy building code requirements.)

#### WARNING: FLOOR ANCHORS MUST BE USED WHEN:

- (1) THE UPRITES HEIGHT TO DEPTH RATIO EXCEEDS 6:1. (IF THE TWO SECTIONS ARE CONNECTED BACK-TO-BACK, USE THEIR COMBINED DEPTH TO CALCULATE THE HEIGHT TO DEPTH RATIO.)
- (2) THE BOTTOM SHELF IS NOT WITHIN 6" OF THE FLOOR.
- (3) ON ALL UPRITE POSTS AND SUPPORT POSTS THAT SUPPORT A 2ND LEVEL CATWALK SYSTEM.
- (4) LOCAL BUILDING CODES REQUIRE THEM.
- (5) SHELVING MUST BE ANCHORED TO THE FLOOR, TO A SUITABLE BUILDING WALL, OR OTHERWISE BRACED TO PREVENT OVERTURNNING IN THE EVENT TALL OR HEAVY ITEMS ARE LEANED AGAINST THE SHELVING.



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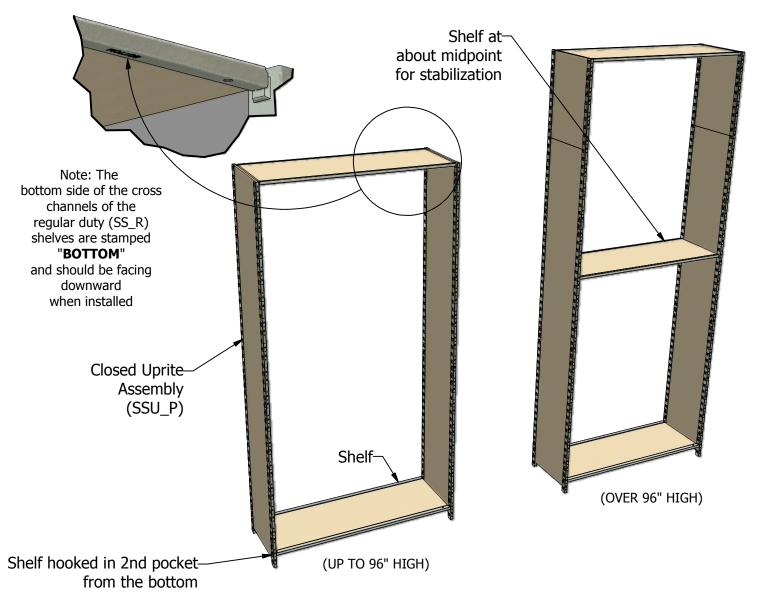
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# **CLOSED WOOD STORAGE SHELVING ASSEMBLY INSTRUCTIONS**

STARTER SECTION

# <u>CAUTION</u>: AT LEAST TWO PEOPLE ARE REQUIRED TO STABILIZE THE SYSTEM DURING ASSEMBLY. <u>WARNING!</u>: REFERENCE PAGE 21 FOR PRODUCT SAFETY INFORMATION



1. Hold two (2) Uprite assemblies vertical and hook tabs of a shelf into the 2nd pocket from the floor.

2. Install a shelf near the top of the Uprites and install an intermediate shelf on taller uprites. (Over 96" high)

This will help stablize the section. Reference pages 16 & 17 for shelf styles and for proper shelf orientation.

**WARNING!** TO STABILIZE THE FINISHED SYSTEM, A BOTTOM SHELF SHOULD BE INSTALLED WITHIN 6" OF THE FLOOR (UNLESS FLOOR ANCHORS ARE USED. SEE PAGE 7) AND A TOP SHELF WITHIN 12" OF THE TOP OF THE UPRITE, AND SHELVES SPACED NO MORE THAN 48" IN EACH SECTION ON THE RUN TO MAINTAIN THE RATED LOAD CARRYING CAPACITY OF THE SYSTEM. SEE **SYSTEM & SHELF LOAD CAPACITIES** PAGES 16 & 17.

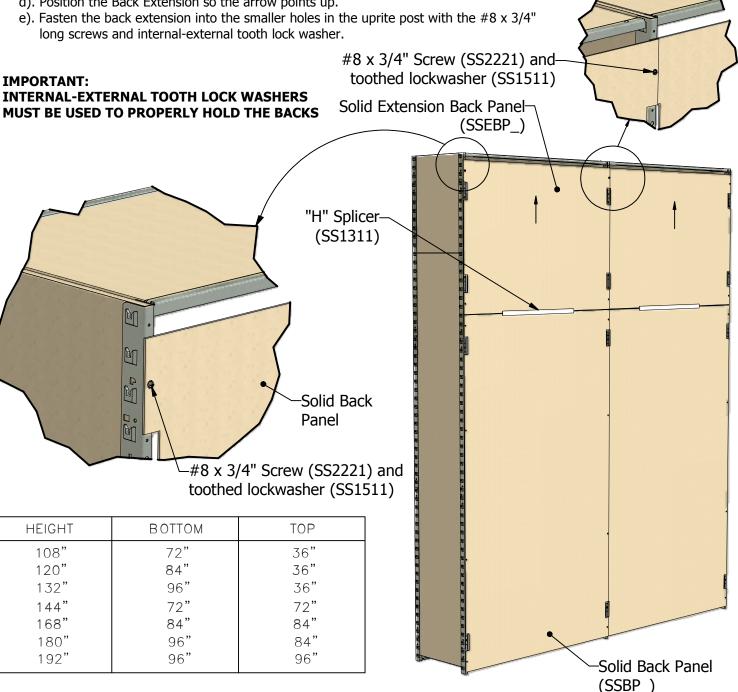
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# CLOSED WOOD STORAGE SHELVING ASSEMBLY INSTRUCTIONS

# SOLID WOOD BACK PANEL APPLICATIONS

3. Attach solid wood backs to the uprite using the hardware provided.

- a). Place the back against the rear of the shelving section. (NOTE: The bottom edge of the back will be approximately 1/2" above the floor.
- b). Fasten the backs into the smaller holes in the uprite posts with the #8 x 3/4" long screws and internal-external tooth lock washer. If "back extension" is to be used (uprites more than 8' tall) use the hardboard backs marked "Back Extension and the hardware provided.
- c). Place the "H" splicer between the lower back and the Back Extension.
- d). Position the Back Extension so the arrow points up.





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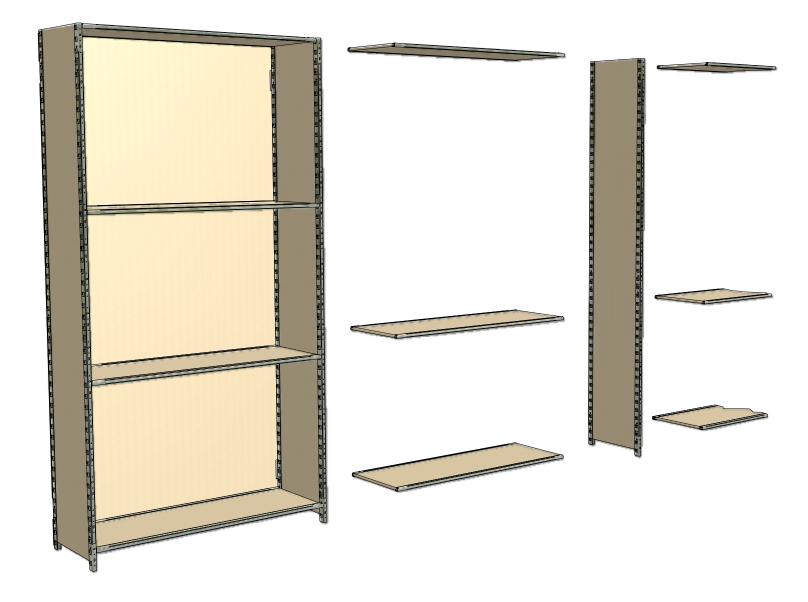
## **CLOSED WOOD STORAGE SHELVING ASSEMBLY INSTRUCTIONS**

#### **ADDING SECTIONS:**

4. Hook shelf tabs into pockets in line with one of the center shelves of the starter section. Hook tabs at other end of shelf into pockets of free uprite. Install remainder of shelves at required positions. Solid wood backs should be attached as instructed by **SYSTEM STABILIZING REQUIREMENTS** Pages 19 & 20.

<u>WARNING!</u> SOLID WOOD BACKS MUST BE LOCATED, AT A MINIMUM, AS SHOWN BY **SYSTEM STABILIZING REQUIREMENTS** PAGES 19 & 20.

**WARNING!** THE SHELVES MUST BE LEVEL AND EACH CORNER MUST FULLY ENGAGE THE UPRITE POCKET.



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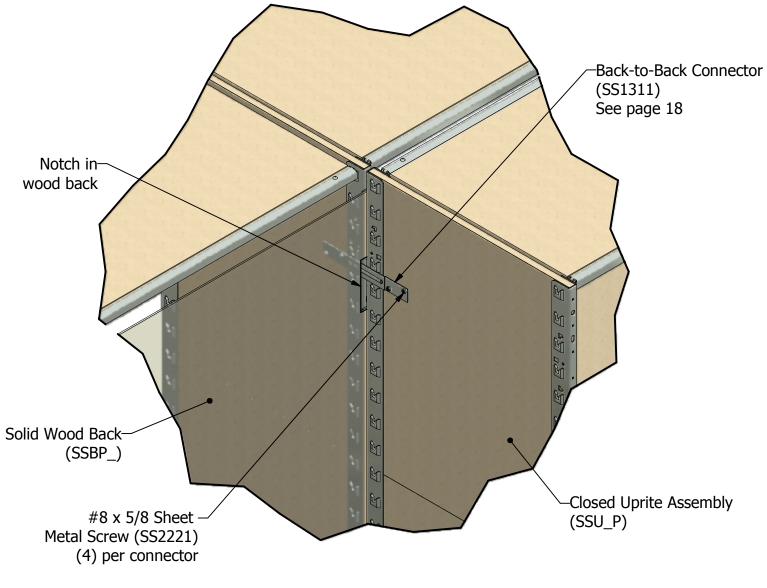
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# CLOSED WOOD STORAGE SHELVING ASSEMBLY INSTRUCTIONS

## **BACK-TO-BACK RUNS WITH SOLID WOOD BACKS**

5. If closed uprites or soild wood backs or both are used back-to-back, use back-to-back connectors to join the uprites. The connector fits through the slots in the backs and fasten to the wood panels that are part of the uprites.

#### IMPORTANT: ALL BACK-TO-BACK POSTS MUST HAVE ONE CONNECTOR WITHIN 18" OF THE TOP OF THE UPRITE, ONE WITHIN 18" OF THE BOTTOM, AND INTERMEDIATE CONNECTORS NO MORE THAN 36" APART.



# FLOOR PROTECTOR/SHIMS OR FLOOR ANCHORS

Reference page 7 of BASIC SYSTEM ASSEMBLY INSTRUCTIONS.

## **BASE FRONTS**

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Reference page 7 of BASIC SYSTEM ASSEMBLY INSTRUCTIONS.

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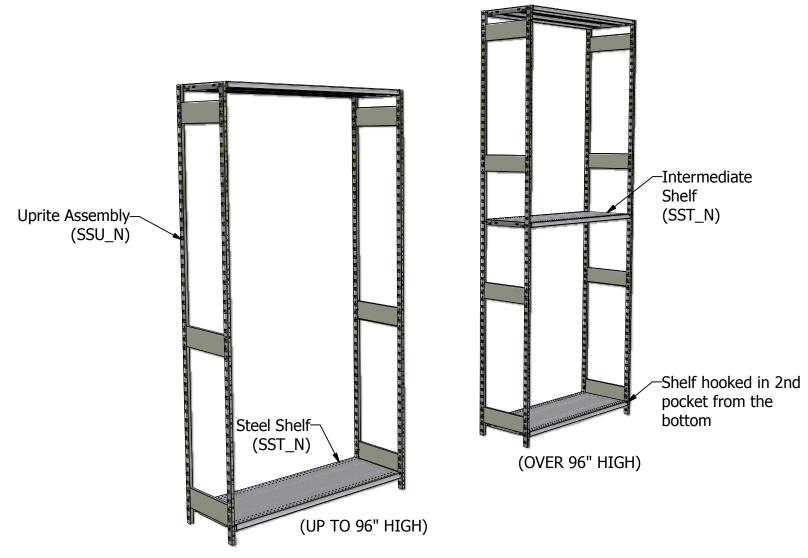
01-44 REV. AA PCO# 61181 9/25/2008 PAGE 11 OF 21

## STEEL STORAGE SHELVING ASSEMBLY INSTRUCTIONS

STARTER SECTION

# <u>CAUTION</u>: AT LEAST TWO PEOPLE ARE REQUIRED TO STABILIZE THE SYSTEM DURING ASSEMBLY.

# **WARNING!**: REFERENCE PAGE 21 FOR PRODUCT SAFETY INFORMATION.



- 1. Hold two (2) Uprite assemblies vertical and hook tabs of a shelf into the 2nd pocket from the floor.
- 2. Install a shelf near the top of the Uprites and install an intermediate shelf on taller Uprites. (Over 96" high) This will help stablize the section. Reference pages 16 & 17 for shelf styles and for proper shelf orientation.

**WARNING!** TO STABILIZE THE FINISHED SYSTEM, A BOTTOM SHELF SHOULD BE INSTALLED WITHIN 6" OF THE FLOOR (UNLESS FLOOR ANCHORS ARE USED. SEE PAGE 7) AND A TOP SHELF WITHIN 12" OF THE TOP OF THE UPRITE, AND SHELVES SPACED NO MORE THAN 48" IN EACH SECTION ON THE RUN TO MAINTAIN THE RATED LOAD CARRYING CAPACITY OF THE SYSTEM. SEE **SYSTEM & SHELF LOAD CAPACITIES** PAGES 16 & 17.

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# STEEL STORAGE SHELVING ASSEMBLY INSTRUCTIONS

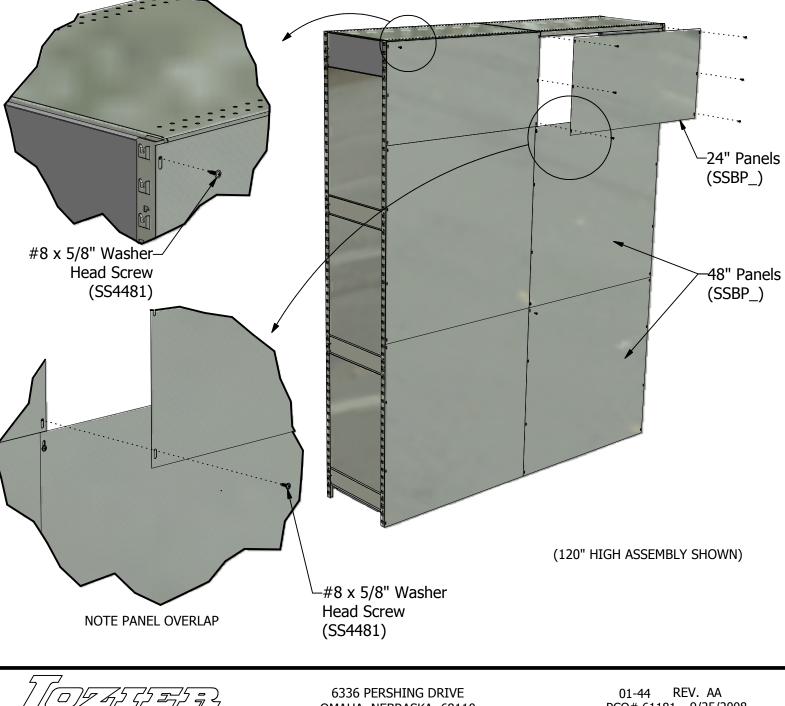
### **STEEL BACK PANEL APPLICATIONS**

3. Attach steel backs to the uprite using #8 x 5/8" (5/8" minimun length, up to 1" OK) long washer head sheet metal screws.

- a). Place the back against the rear of the shelving section, OK to set on floor. Holes in back panels are slotted to account for unlevel floors.
- b). Fasten the backs into the small holes in the uprite posts with the #8 x 5/8" long washer head sheet metal screws.

#### **IMPORTANT:**

- WASHER HEAD SHEET METAL SCREWS MUST BE USED TO PROPERLY HOLD THE BACKS.
- SCREWS MUST BE INSTALLED AT ALL SLOT LOCATIONS



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## STEEL STORAGE SHELVING ASSEMBLY INSTRUCTIONS

## **ADDING SECTIONS:**

4. Hook shelf tabs into pockets in line with one of the center shelves of the starter section. Hook tabs at other end of shelf into pockets of free uprite. Install remainder of shelves at required positions. Crossbraces or steel backs should be attached as instructed by **SYSTEM STABILIZING REQUIREMENTS** Pages 19 & 20.

<u>WARNING!</u> DO NOT USE POP RIVETS TO FASTEN CROSSBRACES OR BACKS TO UPRITES. ALWAYS USE #8 SHEET METAL SCREWS. (BRACES MUST BE LOCATED AS SHOWN BY **SYSTEM STABILIZING REQUIREMENTS** PAGES 19 & 20.)

**WARNING!** THE SHELVES MUST BE LEVEL AND EACH CORNER MUST ENGAGE THE UPRITE POCKET.



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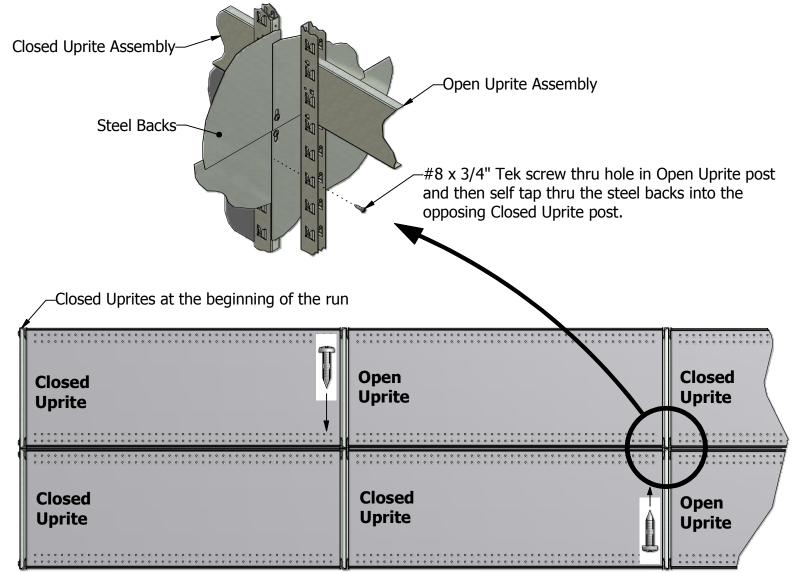
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# STEEL STORAGE SHELVING ASSEMBLY INSTRUCTIONS

## **BACK-TO-BACK RUNS WITH STEEL BACKS**

- 5. The sections in the back-to-back runs must be fastened to one another.
  - a. Install steel backs on one run first and then screw the uprites of the second run to the first.
  - (When securing two closed steel uprites together, a screwdriver extension bit must be used)
  - b. When using both open uprites and closed uprites, see suggested uprite arrangement below.
- 6. Fasten the back-to-back runs together with #8 x 3/4" Tek screws. The screw must go through one post, then self drill through the steel backs and into the other back-to-back post, as shown.

**IMPORTANT:** All back-to-back posts must have one screw within 18" of the top of the uprite, one within 18" of the bottom, and intermediate screws no more than 36" apart.



#### SUGGESTED UPRITE ARRANGEMENT AND FASTENING:

When closed Uprite assemblies are used within a run, alternate between open and closed uprite assemblies for the remainder of the run. Screw the open uprites to the opposing closed uprite. See top view illustration above.

#### **FLOOR ANCHORS OR BASE FRONTS**

Reference page 7 of **BASIC SYSTEM ASSEMBLY INSTRUCTIONS.** 

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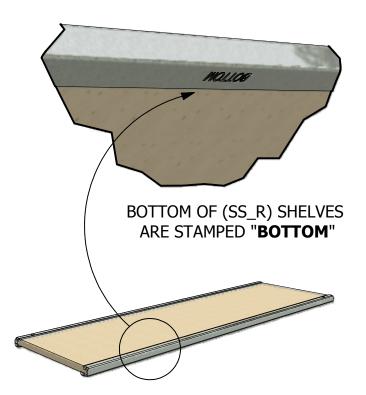
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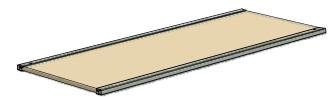
01-44 REV. AA PCO# 61181 9/25/2008 PAGE 15 OF 21

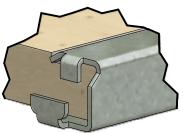
# S-SERIES STORAGE SHELVING SHELF OPTIONS AND SYSTEM LOAD CAPACITIES

# **WARNING!**: REFERENCE PAGE 21 FOR **PRODUCT SAFETY INFORMATION**

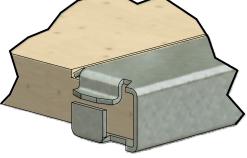
NOTE STYLE AND PROPER ORIENTAION OF SHELF HOOKS











Heavy Duty storage shelf (SS\_H) 600lbs. per shelf evenly distributed

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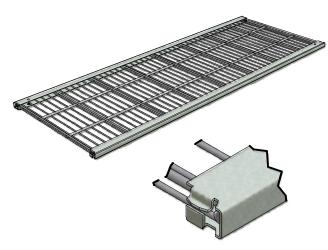
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# S-SERIES STORAGE SHELVING SHELF OPTIONS AND SYSTEM LOAD CAPACITIES

# **WARNING!**: REFERENCE PAGE 21 FOR **PRODUCT SAFETY INFORMATION**

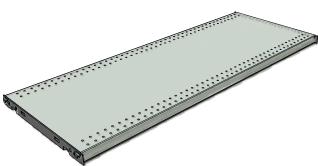
NOTE STYLE AND PROPER ORIENTAION OF SHELF HOOKS





Wire storage shelf (SS421\_) 12" - 18" depth 400lbs. per shelf evenly distributed Greater then 18" 300lbs. per shelf evenly distributed

Wiregrid storage shelf (SS\_WG)W500lbs. per shelf evenly distributed12Gr



Steel storage shelf (SST\_N) 500lb. per shelf evenly distributed

# SYSTEM LOAD CAPACITIES

| UPRITES   | MAXIMUM STATIC LOAD CAPACITY                       |
|---|--|
| 3' thru 8' High w/Regular Duty Bracing (SSX-RD) | 1200 lbs. per Uprite assembly (600 lbs. per post)  |
| 6' thru 16' High w/Heavy Duty Bracing (SSX-HD)  | 2400 lbs. per Uprite assembly (1200 lbs. per post) |
| 6' thru 16' High w/Steel or Wood Back Bracing   | 2400 lbs. per Uprite assembly (1200 lbs. per post) |

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# ACCESSORIES

WARNING !: REFERENCE PAGE 21 FOR PRODUCT SAFETY INFORMATION

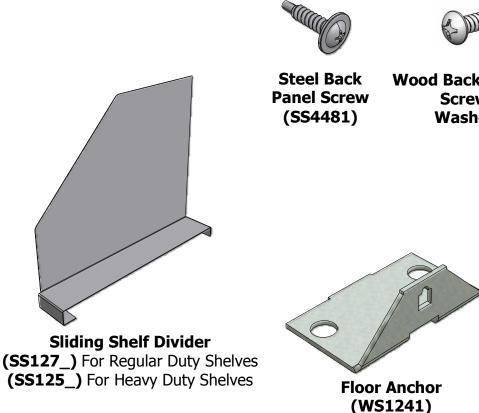


# LOAD CAPACITY:

30" deep section - 50 lb. evenly distributed 24" deep section - 75 lb.evenly distributed 18" & Less deep section - 100 lb.evenly distributed

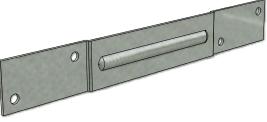
Hangrod (SS112\_) LOAD CAPACITY:

3' wide section - 350 lb. evenly distributed 4' wide section - 250 lb.evenly distributed



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## **Back-to-Back Connector** (SS1311)

REV. AA 01-44 PCO# 61181 9/25/2008 PAGE 18 OF 21

Screw (SS2221) Washer (SS1511)



Wood Back Screw & Washer

**Back-to-Back Screw** (SS2221)

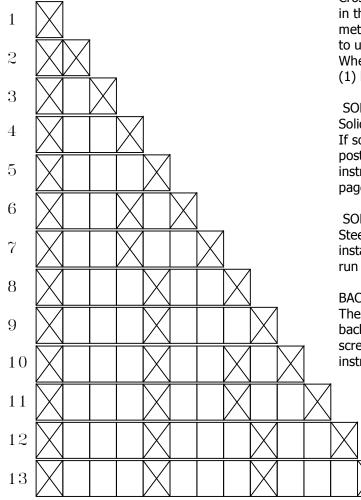
## SYSTEM STABILIZING REQUIREMENTS

## <u>WARNING!</u> ALL RUNS OF STORAGE SHELVING MUST HAVE AT LEAST TWO SECTIONS LATERALLY STABILIZED, AS SHOWN BELOW. (EXCEPT A SINGLE FREE STANDING SECTION)

### RUNS MUST BE STABILIZED ON THE END OR STARTER SECTION, AND STABILIZED, AT MINIMUM, ON EVERY FOURTH SECTION THEREAFTER, PLUS STABILIZED ON THE LAST SECTION. *FAILURE TO DO THIS MAY RESULT IN PERSONAL INJURY AND PROPERTY DAMAGE.*

# EXAMPLES OF STABILIZER LOCATIONS:

## NUMBER OF SECTIONS



#### CROSSBRACE

Crossbraces must be fastened into the small hole in the face of the uprite post with #8 x 5/8" sheet metal screws. DO NOT use pop rivets to fasten crossbraces to uprites. Start at the bottom as shown on page 20. Where adjacent sections have braces, offset the braces (1) hole on the common uprite post.

#### SOLID WOOD BACKS

Solid wood back panels may be used in place of crossbraces. If solid wood back panels are used in back-to-back runs, the posts on the other side must have crossbraces. Back-to-back instructions for **CLOSED WOOD STORAGE SHELVING** pages 8 thru 11.

#### SOLID STEEL BACKS

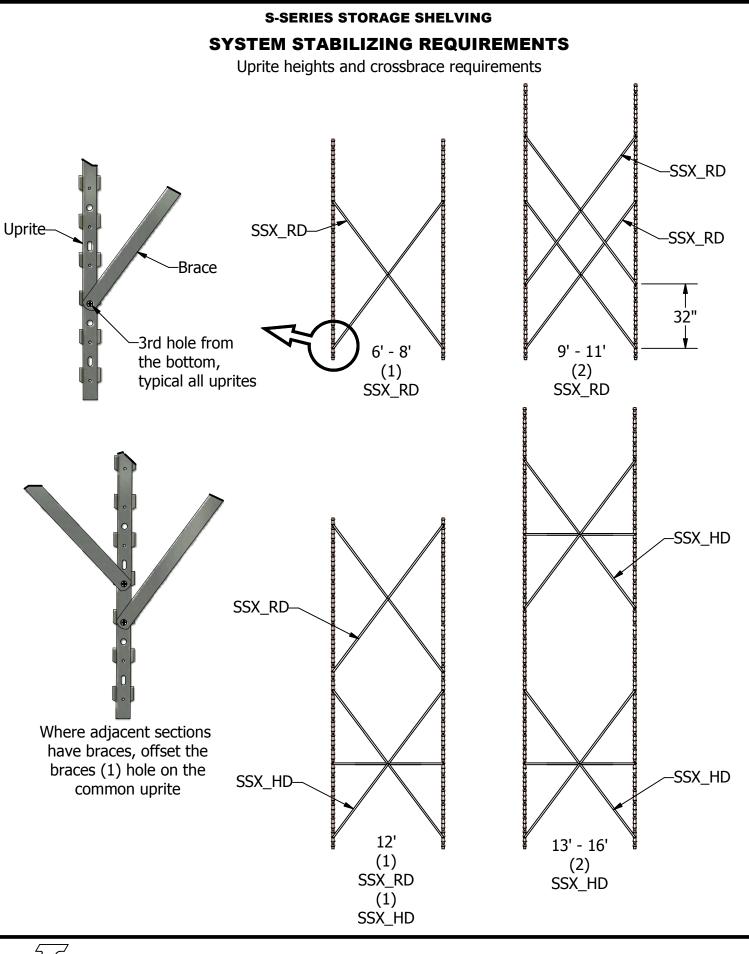
Steel back panels may be used in place of crossbraces. Screws must be installed in all slot locations of the steel back panels. See back-to-back run instuctions for **STEEL STORAGE SHELVING** pages 12 thru 15.

#### BACK-TO-BACK RUN BRACING

These runs may share common bracing only if the back to back uprite posts are securely fastened together with screws or with back-to-back connectors. See back to back instructions for individual styles of storage shelving.

NOTE: The style and quantity of cross-braces in each braced section depends on the height of the uprites, as shown on page 20.

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#### S-SERIES STORAGE SHELVING

## **PRODUCT SAFETY INFORMATION**



# FOR YOUR SAFETY

- \* Install all shelving according to installation instructions and use components only as instructed. Shelving and components should only be installed or rearranged by trained personnel who have read and understand the instructions and warnings. Additional copies of the installation instructions are available upon request.
- \* Local codes and regulations concerning building, fire, sanitation, or seismic requirements may apply to some installations. It is the responsibility of the owner of the fixtures to check with local building authorities to determine what codes or regulations, if any, apply, and always install the shelving in compliance with any such requirements.
- \* When installing or rearranging shelving, never move assembled shelving.
- \* Do not combine Lozier products with non-Lozier products.
- \* Never use damaged parts. Damaged parts may cause shelving to be structurally unsafe or create exposure to sharp or pointed edges. If parts were damaged in shipping, do not use and contact your Lozier Customer Service Representative. If parts are damaged after shipment, discontinue use immediately and order replacement parts.
- \* Do not exceed Allowable Load Limits. Exceeding allowable loads may cause the shelving to tip over or collapse.
- \* To avoid store personnel or customers accidentally coming in contact with display fixtures, never allow any display to protrude into an aisle or to extend beyond the edge of the fixtures.
- \* Do not lean tall or heavy items against shelving unless shelving is anchored to a suitable building wall, to the floor, or is otherwise braced to prevent overturning. The weight and force of leaning items on unanchored or unbraced shelving may cause the shelving to overturn or collapse.
- \* Provide safe access to all levels of storage & display shelving in accordance with applicable OSHA regulations. Never allow anyone to climb, walk, or stand on shelving. These shelves were not designed to withstand the extra weight and impact of climbing, walking, and standing, and the added weight and impact of such actions may cause the fixtures to collapse.
- \* Never alter, modify or otherwise structurally change the shelving or any of its component parts. Modifications or alteration may cause the shelving or component part to become structurally unsafe resulting in tipping, collapse or other failure of the fixture.
- \* Inspect the shelving system periodically for damage. Parts that are bent, buckled, dented, cracked, or otherwise damaged should be replaced. Tighten or replace loose or missing fasteners.
- \* Shelving (or racks) that are leaning or bending when loaded may indicate a dangerous overload or impending collapse. Loads should be immediately reduced, and the cause for this condition should be corrected, before reloading. Refer to appropriate installation instructions to assure shelving (or racks) are properly assembled, replace any damaged components or parts, and do not exceed recommended maximum loads or engage in any other unsafe use of the shelving (racks).

#### IMPORTANT: FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN PERSONAL INJURY TO YOUR EMPLOYEES OR CUSTOMERS, DAMAGE TO PROPERTY, OR DAMAGE TO THE FIXTURE ITSELF.

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