

HORTICULTURE TROUGH/DRAIN SHELVING (HTS/HDS) INSTALLATION INSTRUCTIONS

IMPORTANT: To reduce the risk of serious injury, read and understand this entire guide before beginning any installation.



Contents

BEFORE YOU BEGIN:3

SAFETY WARNINGS:.....3

HTS/HDS INSTALLATION4

TROUGH SHELVES.....6

DRAIN SHELVES.....7

WARRANTY9



BEFORE YOU BEGIN:

1. Check your inventory to be sure you received your entire order. If there are any missing or damaged parts, contact your **Dealer** or **Borroughs Customer Service Manager**.
2. Read and understand the entire installation instructions prior to beginning the install.

SAFETY WARNINGS:



This symbol is used to address practices not related to personal injury.



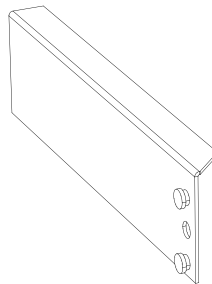
A potentially hazardous condition exists that may result in death or serious injury, property damage, or destruction if instructions are not strictly observed.



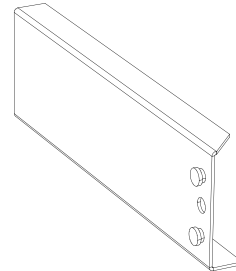
This symbol is used to address practices not related to physical injury.

Once installation is completed, a copy of the installation instruction booklet **MUST** remain with the customer.

Tools Required:



Angle Beam



Channel Beam



HTS/HDS INSTALLATION

Horticulture shelving comes in two (2) categories. Trough and Corner Drain shelving. The underlying framework and support beams are identical with common installation practices.

This installation guide begins by showing the assembly of the rivet-span frame. Followed by installation of tapered support beams and shelf installation. Refer to steps 1 through 8.

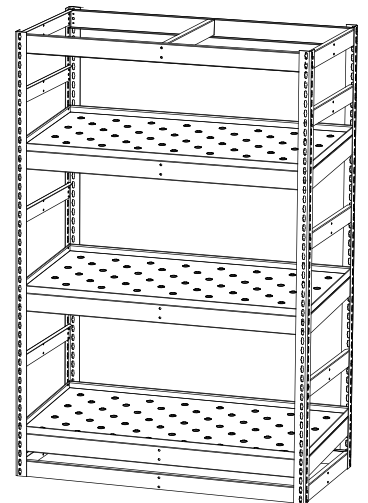
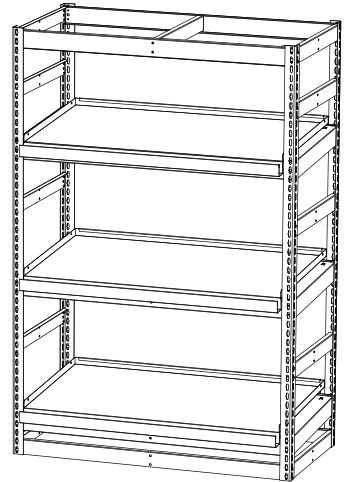
For more specific information regarding the corner drain shelf and final adjustments refer to steps 5 through 7.

For anchoring units to floor and linking multiple units together please reference the Rivet-Span Installation Instructions #32-50500-000A @ www.borroughs.com.

NOTE: Lights and watering systems may be installed on each level with the understanding weight of lights and water systems directly affect maximum shelf load capacity.

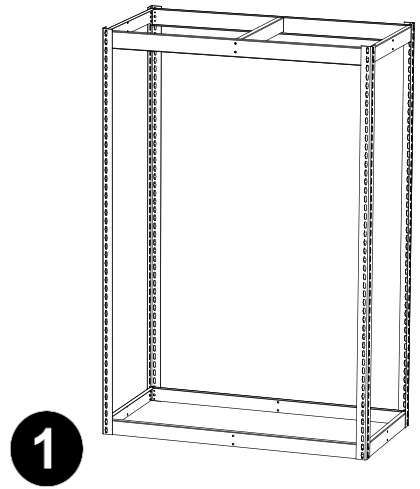


Maximum load capacity per shelf is 500 lbs. evenly distributed.



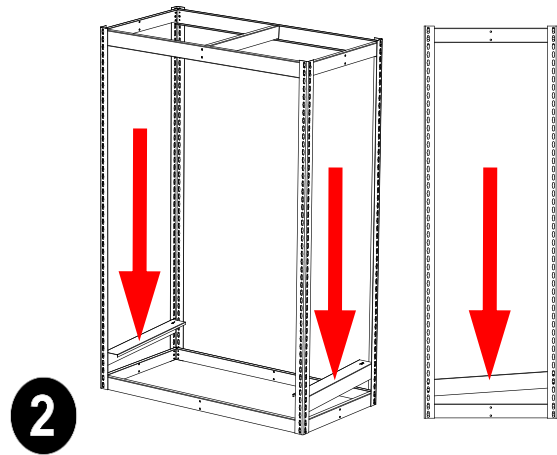
STEPS

- 1 Begin assembly of shelving system by fitting together the standard double rivet angle beams at bottom and front and back channel beams at top with tie support.

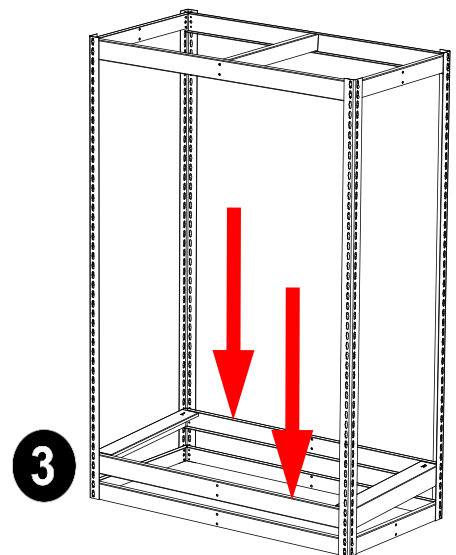


- 2 Shelves are set on a taper to encourage proper drainage. Right and left-hand side shelf supports are supplied for this. Ensure proper orientation of brackets (stamped "L" & "R") and use a mallet to fully seat rivets into posts.

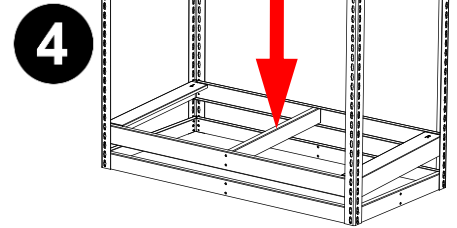
NOTE: Front set of rivets will be one place below rear.



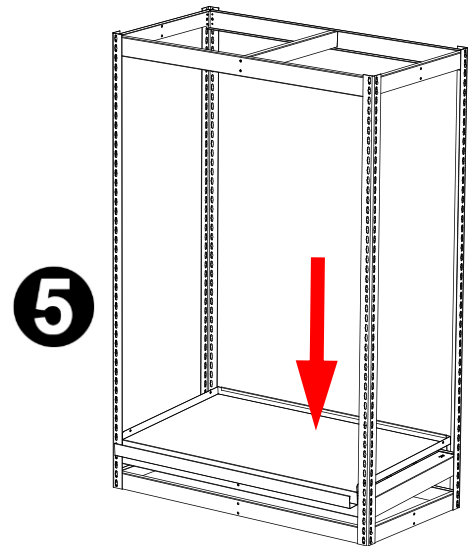
- 3 Install front and back double rivet channel beams. Ensure that the perimeter is flush creating an angled plane towards front. Use a mallet to ensure rivets are fully seated into posts.



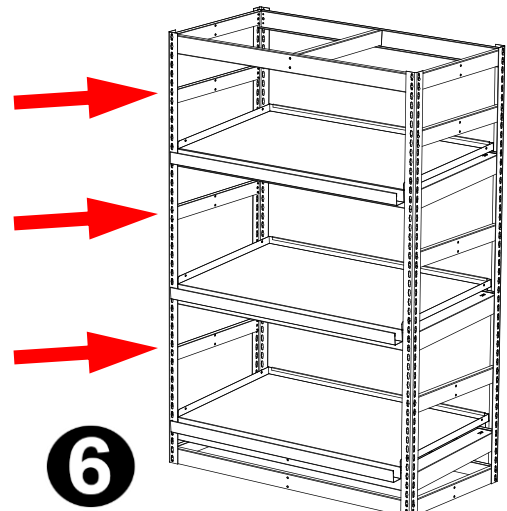
- 4** Install one (1) tie support for 48-inch-wide, 60-inch-wide, 72-inch-wide, and two (2) for 96-inch-wide shelves per level. These are also angled and can only be installed one way. Use supplied $\frac{1}{4}$ -20 hardware and fasten into place with a 7/16-inch socket and wrench.



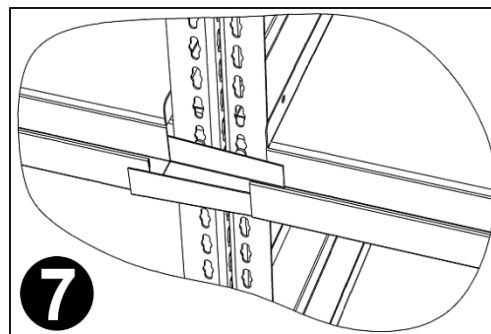
- 5** Place shelf flush on supports with gutter or drain hole towards front of unit. The back of trough shelf has a welded back splash which also aids in preventing shelf front sliding forward.



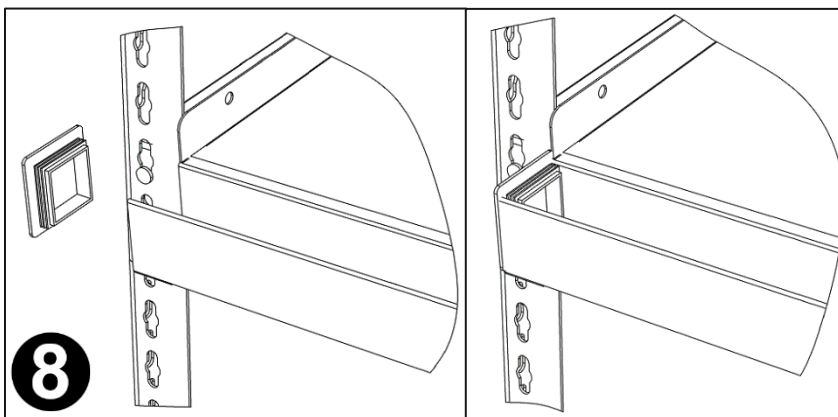
- 6** To complete installation repeat steps and install additional levels. Add remaining double rivet angle beams on sides between levels.



- 7** Splice plates (optional) are installed to connect two (2) troughs together. Wider end of splice plate is installed outside the trough and narrower end is inside connecting trough. Once in place, hold and glue using a bead of silicone on all edges. Allow silicone to dry.

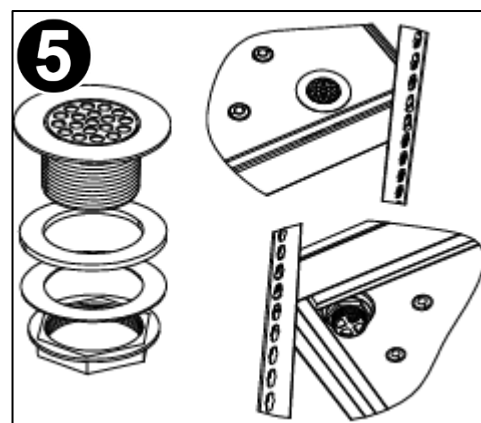


- 8** To cap end of trough off. Place cap into end of trough, hold and glue using a bead of silicone on all edges. Allow silicone to dry.

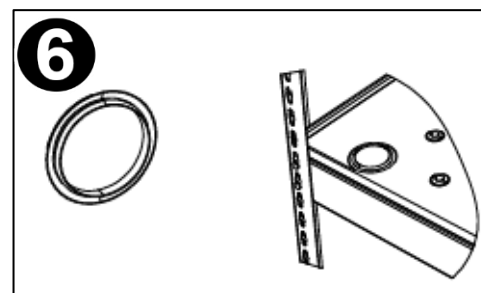


DRAIN SHELVES

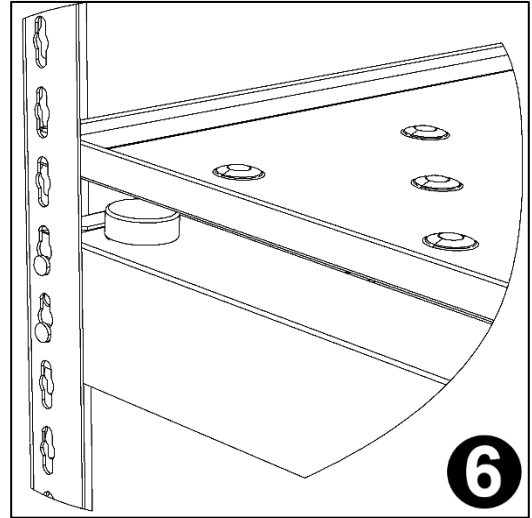
- 5** Each corner drain shelf is supplied with a drain and plastic plug. To install drain, insert plug in existing hole on topside of shelf. Put gasket and threaded retainer onto protruding plug under shelf and tighten. Silicone or similar sealant can aid in a water tight shelf.



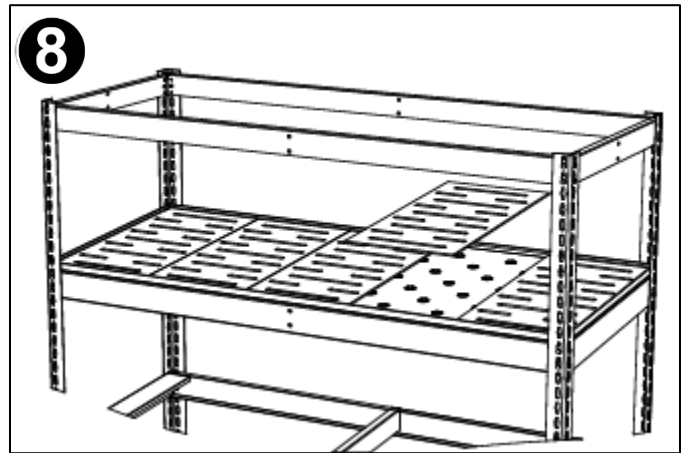
- 6** If you decide not to use drain install plastic plug. The plug is a press fit application.



- 6** Locate shims at the opposite corner to the drain to pitch water drainage.

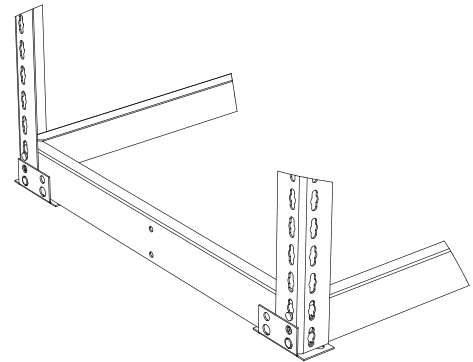


- 8** Drain shelf trays (optional) can be placed on shelf to allow more air circulation and moisture control as shown.



Footplates:

Footplates can be installed to allow floor anchoring, place under post and bolt in place with ¼-20 hardware.



Once installation is completed, a copy of the installation instruction booklet MUST remain with the customer.



WARRANTY

Borroughs extends to the original purchaser from the date of purchase a limited lifetime warranty for Borroughs' Automotive Workstations and Modular Drawer Cabinets against manufacturing defects in material and workmanship. For all other products Borroughs extends to the original purchaser from the date of purchase a 5-year limited warranty against manufacturing defects in material and workmanship.

If a Borroughs product fails to perform because of a manufacturing defect, Borroughs will examine it. If found defective, it will be repaired or replaced at our option. This warranty applies only to Borroughs products acquired directly from Borroughs or from Authorized Borroughs Dealers.

This warranty does not apply to any product which has been subject to misuse, negligence, or accident; has been damaged in shipment, storage, or installation; has been misapplied or has been modified or repaired by unauthorized persons or been repaired with non-standard Borroughs replacement parts. This warranty specifically excludes claims for indirect, incidental, or consequential damages arising in any way from a product defect. This warranty is exclusive, and exists in lieu of all other warranties, either expressed or implied.

This warranty gives you specific legal rights; you may also have other rights which may vary from state to state.

Contact your Borroughs Selling Dealer, to obtain warranty service. You must make a written claim. Provide a copy of your purchase record and a written description of the warranty problem with your claim.

If you are unable to contact your Dealer, contact:

Borroughs, Customer Service Manager
3002 N. Burdick St., Kalamazoo, MI 49004-3483.
Phone: 1-800-748-0227