



The Original Box Shelf

Assembly Instructions for Deluxe Shelving Closed Units

- 1 Read Assembly Instructions thoroughly before beginning assembly. **Note** for welded upright assemblies (end or intermediate), skip 2 & 3.
- 2 **End upright assembly** - requires one Angle post at the back and one Angle or Beaded post at the front (Fig. 3). Bolt the end panels inside the two posts as shown in Fig. 1. Nuts and bolts should be located approximately 18" apart. Panels are typically provided in 2 or more pieces and overlap a minimum of 1".

- 3 **Intermediate upright assembly** - requires two Angle posts at the back, and two Angle or one Beaded post at the front (Fig 3). Bolt the end panels between Angle posts or between rear flanges of Beaded post. Nuts and bolts should be located approximately 18" apart. Note: before deciding where bolts should be located when attaching panels to posts, a sample unit may be built with all shelves in place in order to determine optimal bolt placement to prevent bolts from interfering with the shelves.

- 4 Clip the top shelf to the upright assemblies through the top hole of the post (Fig. 1). Clip the bottom shelf to the upright using the third hole from the bottom of the post, or other location where bottom shelf will be required. (3" max. from floor)*. If a closed base is to be installed, connect to underside of shelf with two No. 10 x 3/8" sheet metal screws. If the shelf with the closed base is to be fastened to the unit with nuts and bolts, then the shelf unit should be positioned on its back for installation. Use two end upright assemblies if installing only one unit, or add intermediate upright assemblies if installing two or more units to form a row. For 24-gauge shelves and non-seismic applications, clips may be used instead of bolts on the top and bottom shelves.

- 5 Install the intermediate shelves using four clips per shelf, except the second shelf from the bottom, which must be bolted in place to provide stability*. Shelves are adjustable on 1" centers using the holes on posts for clip attachment. If knee braces are required, attach them to the upright posts.

- 6 Bolt the back panel to the back of the unit outside the posts. If installing back to back units, the back panel should be placed between the units. Nuts and bolts should be located approximately 18" apart. Back panels are typically provided in 2 or more pieces and overlap a minimum of 1".

- 7 Additional shelving units may be added to form a row by holding in position another intermediate upright assembly and repeating steps 3 - 5. For the last adder unit, use an end upright assembly instead of an intermediate assembly to finish the row.
- 8 See reverse side for installation of optional accessories.

* If the bottom shelf must be less than 3" from the floor to the top of the shelf, it must be bolted in place, and the second shelf from the bottom can be attached using clips, and the top and bottom shelves should be attached while the unit is on its back. For adder units using Beaded posts with the top of the bottom shelf less than 3" from the floor, the top and bottom shelves must be bolted to the entire row before standing the units upright. If using footplates and the bottom shelf is less than 3" from floor, the footplates cannot be anchored due to limited access to the footplates.

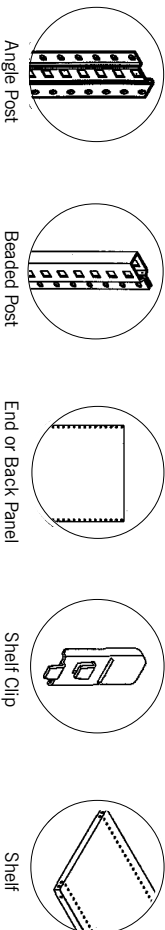


Fig. 1

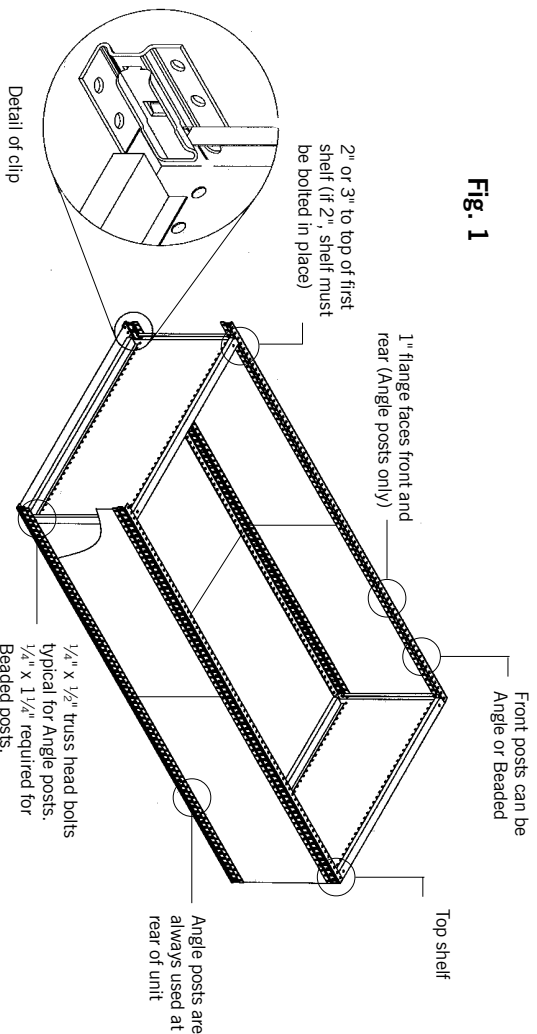
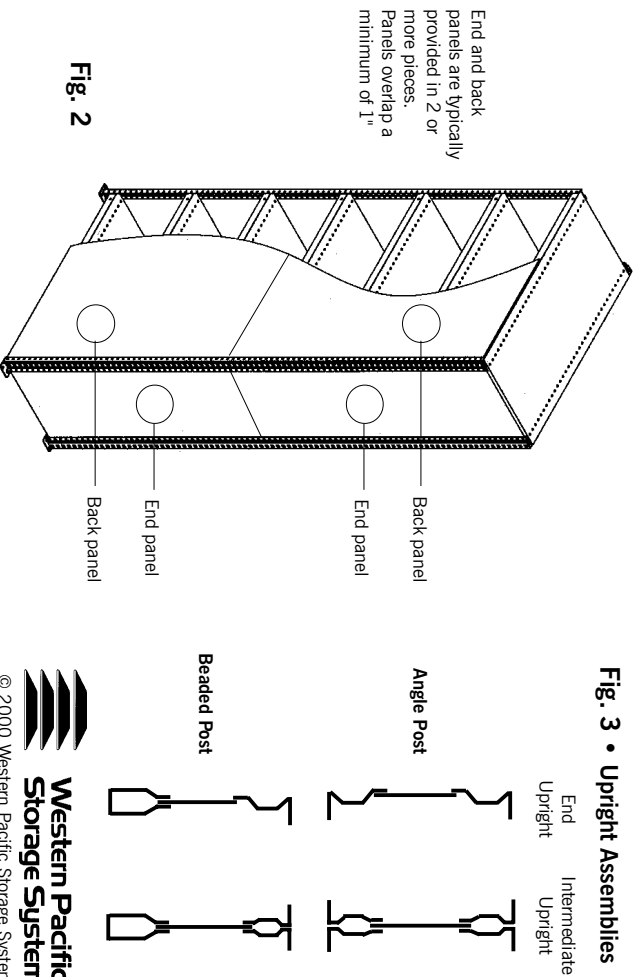
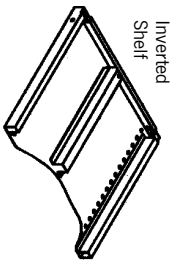
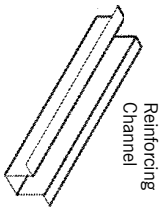


Fig. 3 • Upright Assemblies

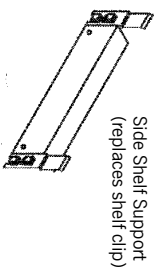




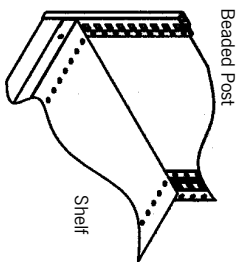
Inverted Shelf



Reinforcing Channel

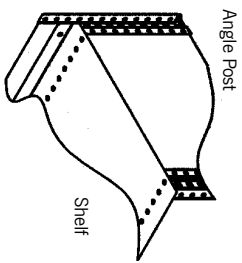


Side Shelf Support (replaces shelf clip)



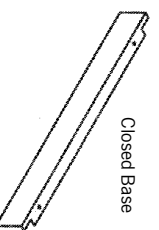
Beaded Post

Shelf



Angle Post

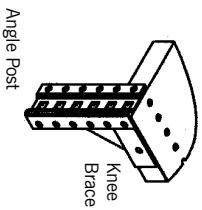
Shelf



Closed Base

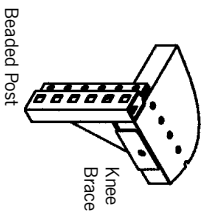
Reinforced Shelf

Install by slipping reinforcing channel under the end flanges of the shelf and rotating the channel to the center of the shelf. Dimple shelf flange with hammer & screwdriver into slots at the ends of the reinforcing channel.



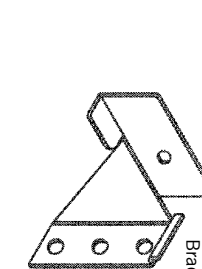
Shelf

Knee Brace

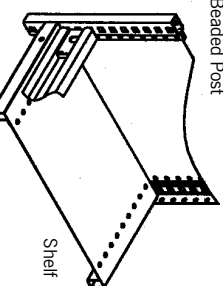


Shelf

Knee Brace

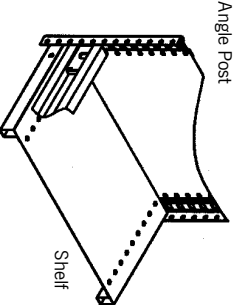


Knee Brace



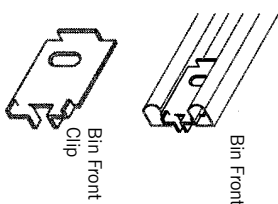
Beaded Post

Shelf



Angle Post

Shelf

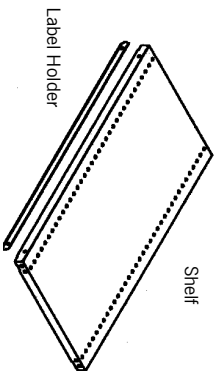


Bin Front

Bin Front Clip

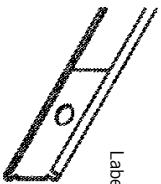
Knee Brace

Used in left- and right-hand pairs. Fasten to Angle Post with two 5/16" x 1/2" bolts, lock washers and nuts. Fasten to Beaded Post with 5/16" x 1-1/4" bolts. The shelf is bolted and then the Knee Brace is fastened with 1/4" x 1-1/4" bolt, nut and washer.



Shelf

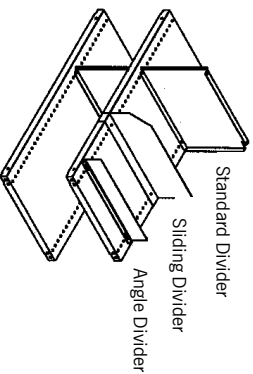
Label Holder



Label Holder

Label Holder

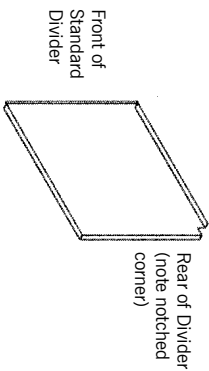
Secure to shelf front with two No. 21 Spring Steel Clips, or with bolts or pins & buttons. Accepts a 3/4" high card.



Standard Divider

Sliding Divider

Angle Divider



Front of Standard Divider

Rear of Divider (note notched corner)

Shelf Divider

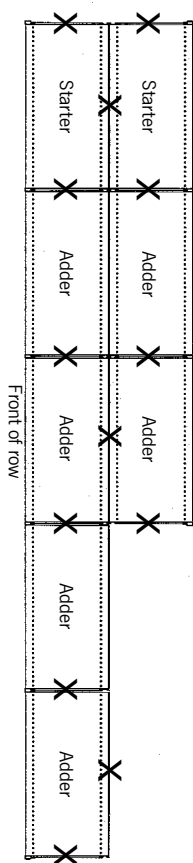
Standard dividers attach with two #21 clips into prepunched holes in lower shelf and two #21 clips through upper shelf. Angle dividers fasten to shelf with two #20 buttons and two #19 spreader pins through prepunched holes on shelf. Position shelves accordingly to properly fasten dividers. Dividers are not reversible. For heavy applications, attach with nuts & bolts (supplied on request).

Closed Base

Connects to underside of shelf with two #10x3/8 sheet metal screws (supplied). Top of shelf will be 3" from floor. If shelf is to be fastened using nuts & bolts, closed base must be attached to bottom of shelf before shelf is mounted to unit; unit must be on its back.

Bin Front

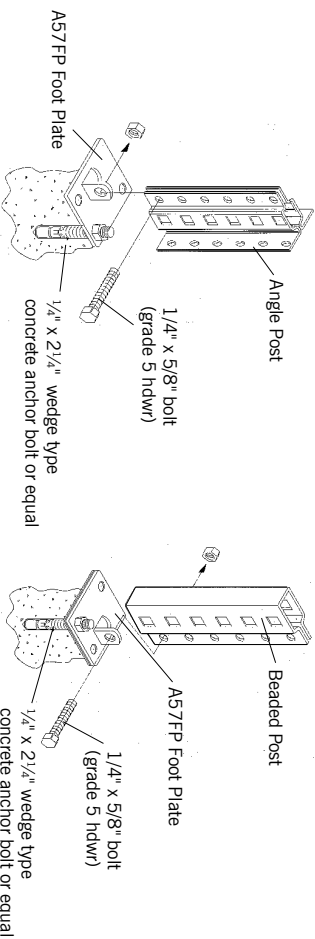
Slide clip into the groove of the Bin Front and anchor with No. 20 Buttons and No. 19 Spreader Pins (supplied). Flaps on the clips fit the square holes on Upright Posts. Two clips per bin front required.



Front of row

Typ. Floor Plan

For open units less than 120" tall, end units must be fully braced on sides and back. All units require side sway braces. Every other interior unit requires back sway braces. Back to back units share common back panel or sway braces. Side by side units share common side panel or sway braces. Consult Engineering for multilevel or seismic use.



Foot Plates

Units over 8' high and some standard units should be anchored to the floor. Units that are more than 5 times greater in height than in depth should be anchored to the floor. Units with bottom shelf located less than 3" from floor cannot be anchored due to limited access.