

# DELUXE

## The Original Box Shelf

### Assembly Instructions for Deluxe Shelving Open Units

- 1 Read Assembly Instructions thoroughly before beginning assembly.
- 2 Lay two Angle posts on floor or on saw horses with 1" flange down. Clip the top shelf to the sides of posts in the top hole (Fig. 1). Clip the bottom shelf the same way using the third hole from the bottom of the post, or location where the bottom shelf will be required (3" max. from floor)\*. Place right and left Angle or Beaded posts at front post locations as shown in Figure 1 and attach to shelves. For 24-gauge shelves and non-seismic applications, clips may be used instead of bolts on the top and bottom shelves.
- 3 Attach the side sway braces to the sides of the unit so that the center of the brace is approximately one-third of the unit height from the bottom up (Fig. 2). For Beaded front posts, the side sway brace is placed between post flanges. With top and bottom shelves bolted or clipped securely, stand the unit upright.
- 4 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 the posts for clip attachment. If knee braces are required, attach them to the upright post.
- 5 Attach the back sway brace (longer than side sway braces) to the outside of the posts so that the center of the brace is approximately one-third of the unit height from the bottom up (Fig. 2). Back to back units share a common sway brace.
- 6 When two or more units are bolted together side by side, the side sway brace is common between units. All units require side sway braces; alternate units require back sway braces. Units at the end of rows need sway braces on all three sides. If installing Beaded post units, the Beaded post is common between units. Bolt the centers of the sway braces together.
- 7 Additional shelving units may be added to form a row by placing the side sway brace between two Angle posts, then proceeding to attach the adder unit(s) to the starter unit.
- 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.

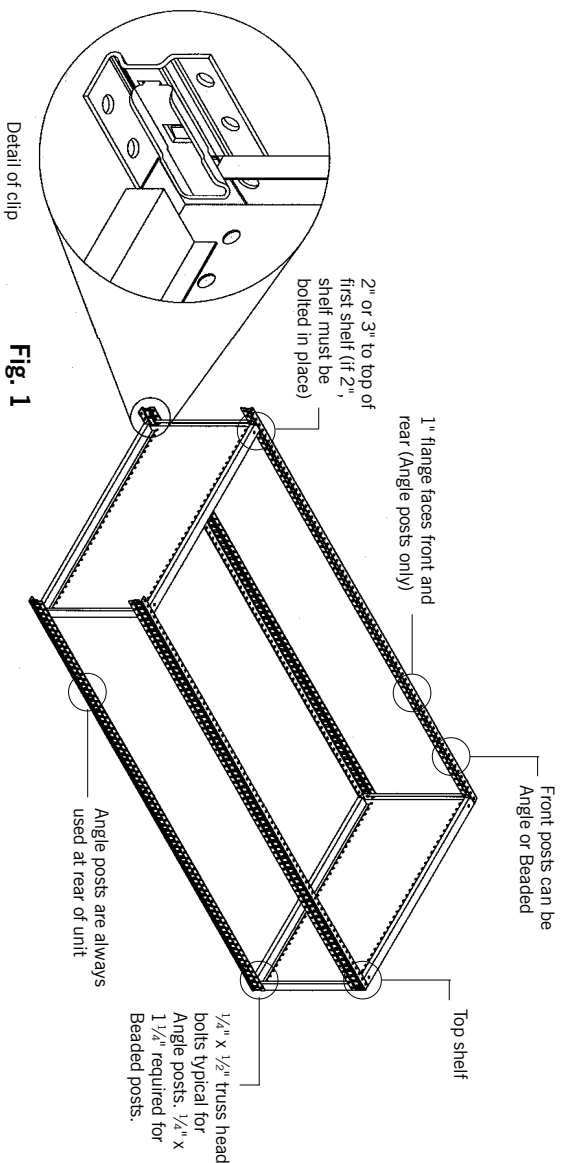
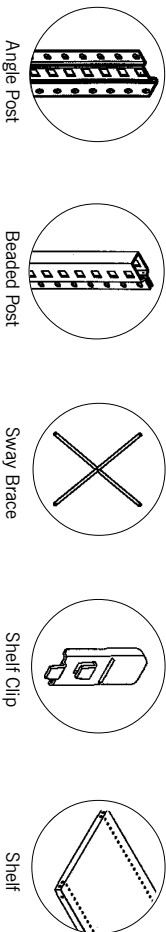


Fig. 1

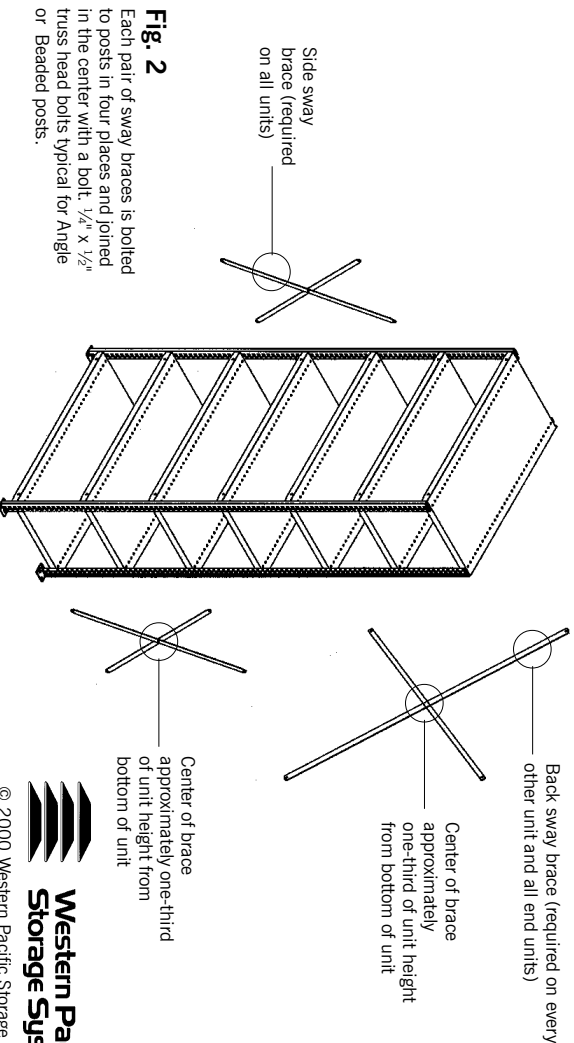
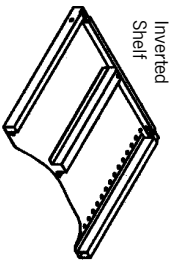


Fig. 2

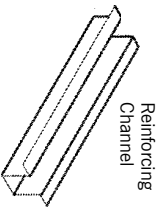
Each pair of sway braces is bolted to posts in four places and joined in the center with a bolt. 1/4" x 1/2" truss head bolts typical for Angle or Beaded posts.



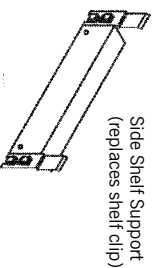
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Inverted Shelf



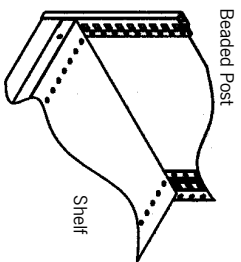
Reinforcing Channel



Side Shelf Support (replaces shelf clip)

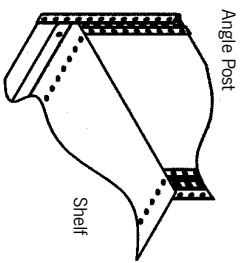
## Reinforced Shelf

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.



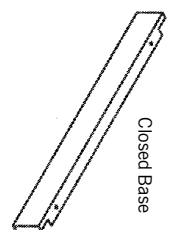
Beaded Post

Shelf



Angle Post

Shelf

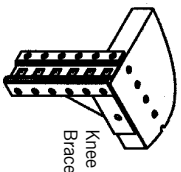


Closed Base

## 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.

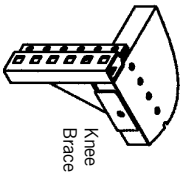
Shelf



Knee Brace

Angle Post

Shelf

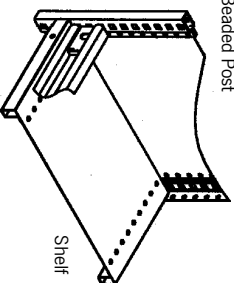


Knee Brace

Beaded Post

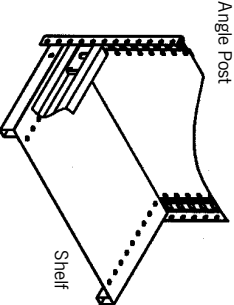


Knee Brace



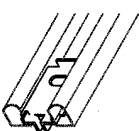
Beaded Post

Shelf



Angle Post

Shelf

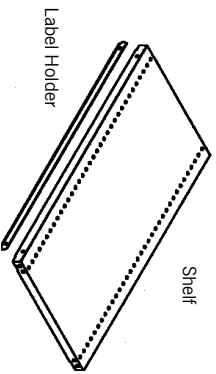


Bin Front

Bin Front Clip

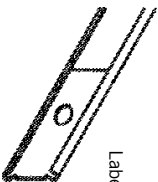
## Knee Brace

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

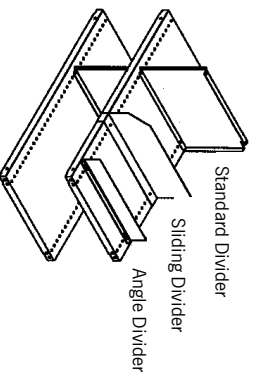
Label Holder



Label Holder

## Label Holder

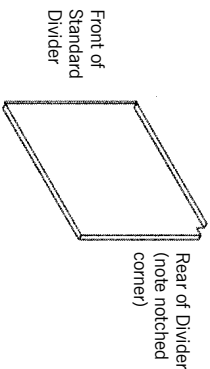
Secure to shelf front with two No. 21 Spring Steel Clips, or with bolts or pins & nuts. Accepts a 3/4" high card.



Standard Divider

Sliding Divider

Angle Divider

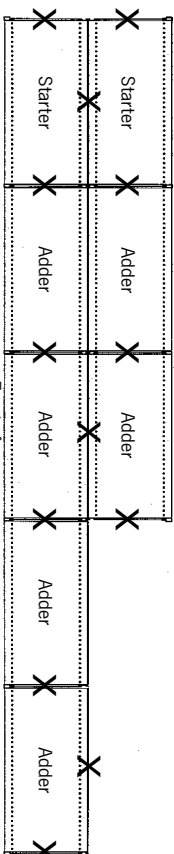


Front of Standard Divider

Rear of Divider (note notched corner)

## Shelf Divider

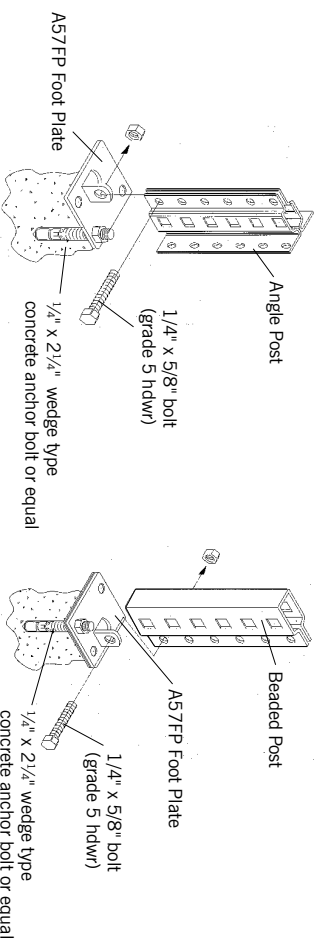
Standard dividers attach with two #21 clips into prepunched holes in lower shelf and two #21 clips through upper shelf. Angle dividers fasten to shelf with two #20 buttons and two #19 spreader pins through prepunched holes on shelf. Position shelves accordingly to properly fasten dividers. Dividers are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



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.



Angle Post

1/4" x 5/8" bolt (grade 5 hdwr)

1/4" x 2 1/4" wedge type concrete anchor bolt or equal

Beaded Post

1/4" x 5/8" bolt (grade 5 hdwr)

1/4" x 2 1/4" wedge type concrete anchor bolt or equal

## 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.