



# Erectomatic<sup>®</sup> Hi-Performance<sup>®</sup> Shelving Assembly Instruction Manual

## CAUTION

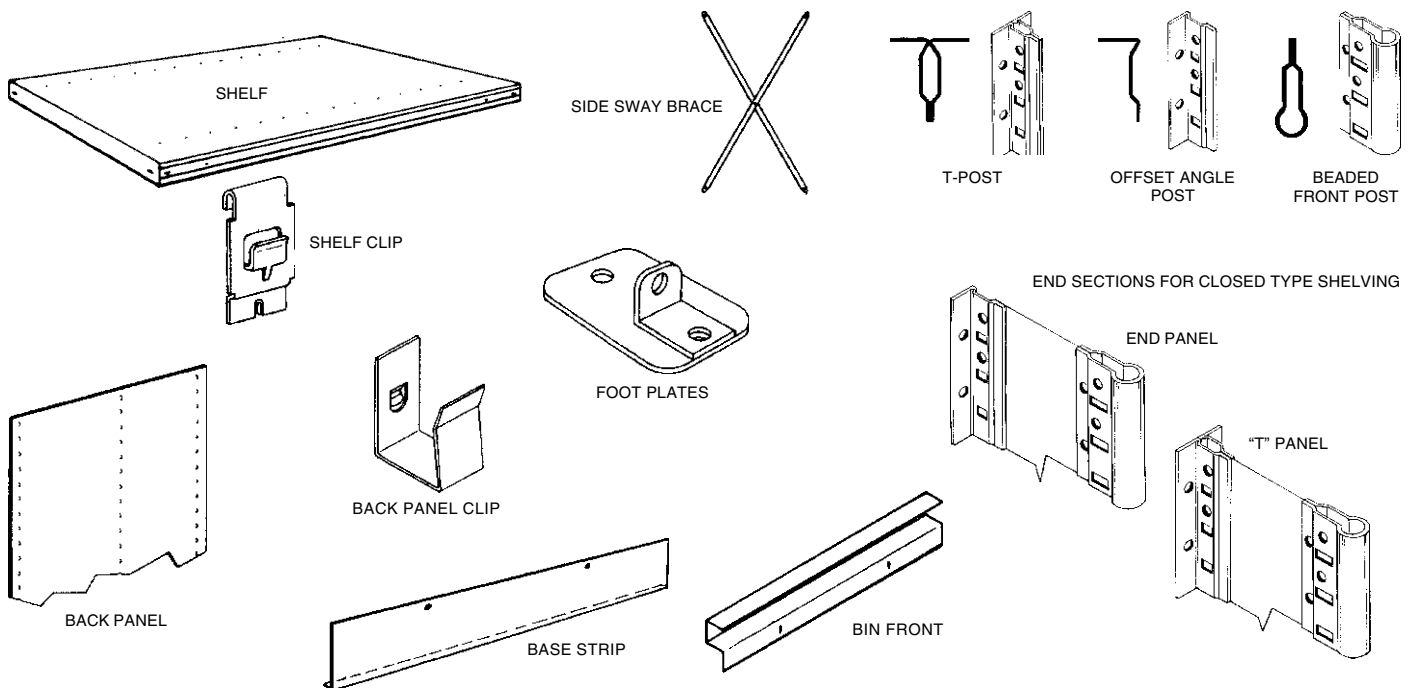
IT IS THE RESPONSIBILITY OF THE PERSONS ASSEMBLING THE SHELVING TO PROPERLY INSTALL ALL COMPONENTS AND HARDWARE AS SPECIFIED IN THESE INSTRUCTIONS AND ANY ACCOMPANYING DRAWINGS FOR SPECIFIC INSTALLATION.

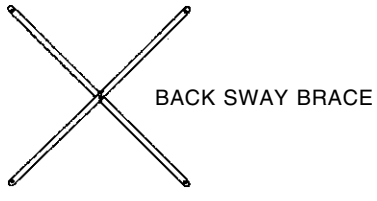
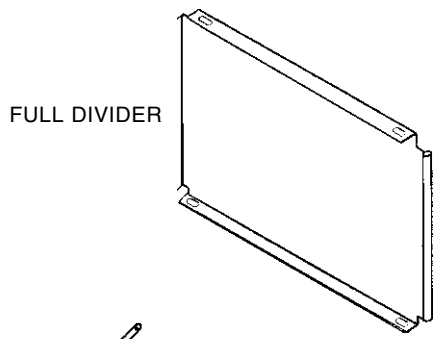
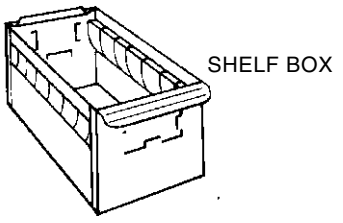
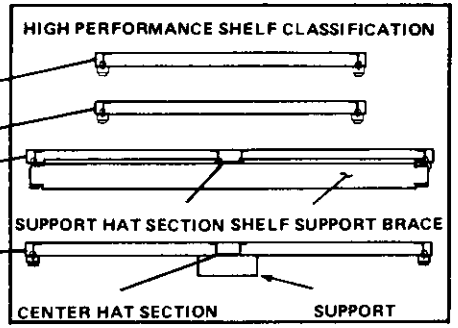
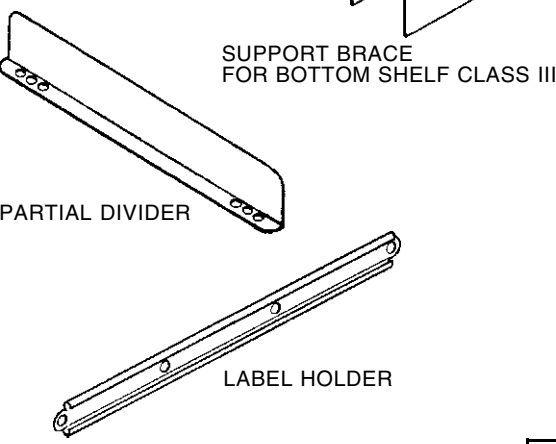
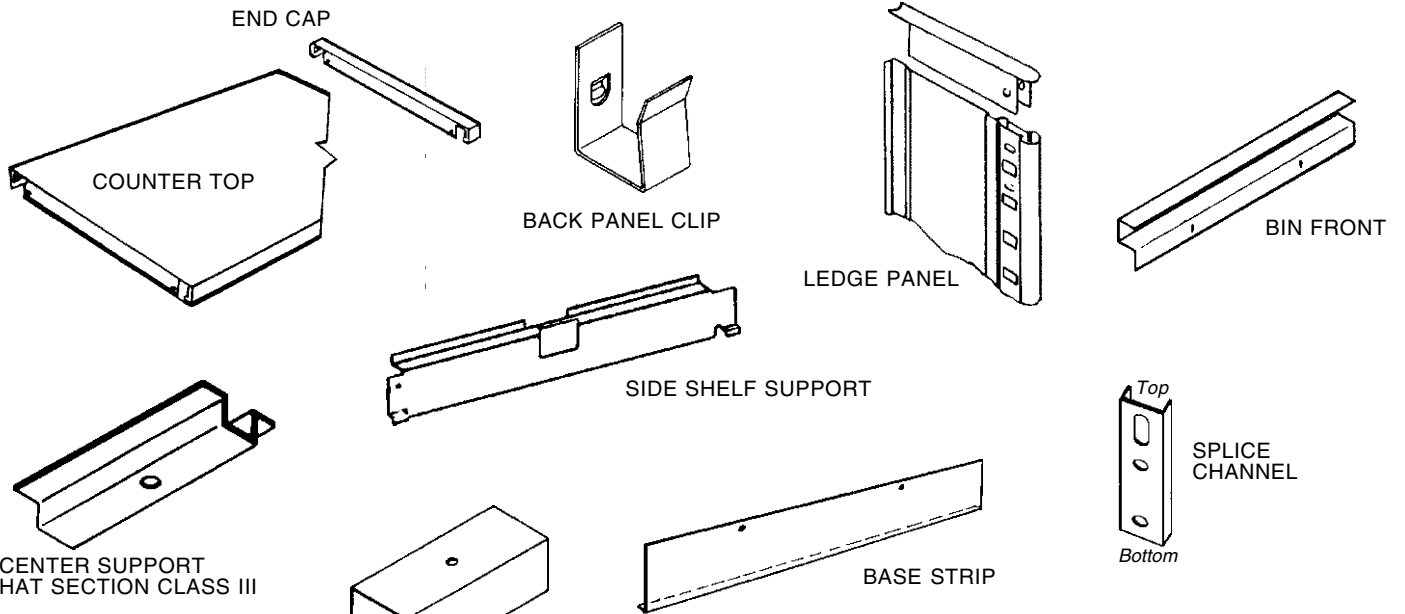
- INSTALL ALL REQUIRED SIDE AND BACK SWAY BRACES
- INSTALL FOOT PLATES AND SHIMS IF REQUIRED
- INSTALL ALL UNITS PLUMB
- TIGHTEN ALL HARDWARE SECURELY

## GENERAL INSTRUCTIONS

1. These instructions are for the man who will actually supervise the assembly of the equipment covered by your order. See that he gets them.
2. Check material received against the packing list. First check the number of packages received and then check the contents of each package.
3. Check material received for damage. If any of it is damaged, secure a "damage notation" from the carrier.

4. Identify each part as it is unpacked and pile like parts together and as close as possible to the working area in which they are to be assembled.
5. Lay out on the floor the space that each rack of shelving is to occupy and build each rack in its proper location.
6. Be careful to use the correct hardware as specified in the assembly instruction.
7. Make sure units are plumb before tightening sway braces and or back panel bolts.





**ERECTOMATIC HI-PERFORMANCE SHELVING HARDWARE SCHEDULE**

ITEM	NUTS & BOLTS	BACK PANEL CLIPS	PLASTIC BUTTONS
Back Panels 3' 3"	6	2	
Back Panels 6' 3"	10	3	
Back Panels 7' 3"	12	4	
Back Panels 8' 3"	14	4	
Ledge Panels	3		
Counter Tops	2		
End Cap	4		
Bin Fronts	2		
Base Strips	2		
Dividers Full (up to 20" high)			2-3/4
Dividers Full (over 20" high)	2-3/4		4
Partial Divider			2
Label Holder			4
Back Sway Braces	5		
Side Sway Braces	5		

# CLOSED TYPE SHELVING

## Individual Units - 3' 3" to 10' 3" Heights

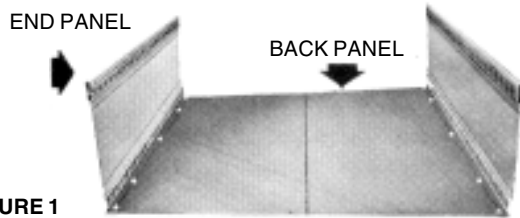


FIGURE 1

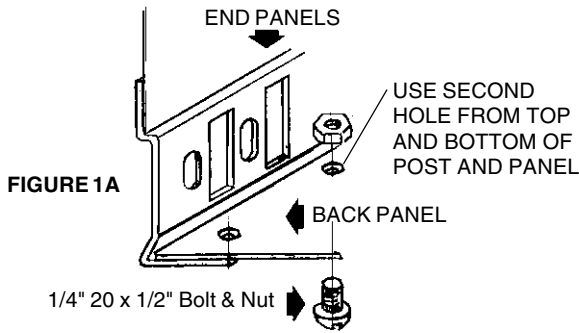


FIGURE 1A

### STEP 1. END PANELS TO BACK PANEL

Use two end panels. Start with assembly in horizontal position, back panel flat on floor, bench or trestles. Slide inside of back posts on end panel under back panel and bolt. (Figure 1 & 1A)

**NOTE:** 36" wide units over 7'-3" and 42" & 48" wide units over 4'3" require multiple back panels which overlap horizontally.

### STEP 2. TOP SHELF

Hook shelf clips into indentation at top of front & rear post, and hook back panel clip through top center hole in back panel. Position top shelf with rear flange on back panel clip and hook end flanges of shelf on shelf clips. Then wedge in lock position.

## Starting, Adjoining and Back to Back Units - with One Piece Backs

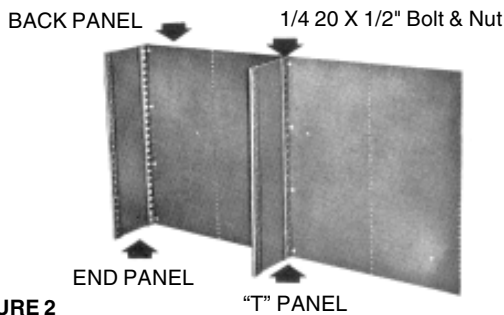


FIGURE 2

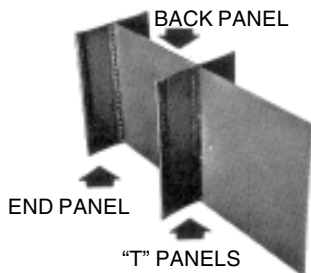


FIGURE 3

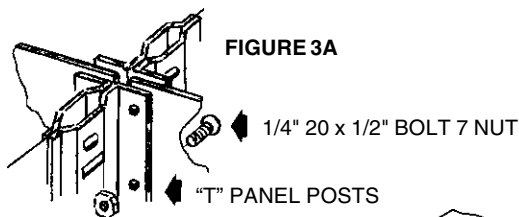


FIGURE 3A

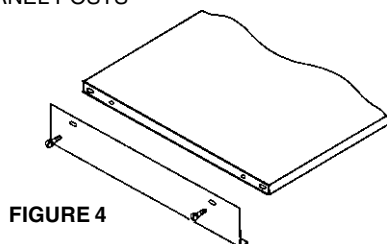


FIGURE 4

### STEP 1. END PANELS TO BACK PANEL

#### STARTING & ADJOINING UNITS

Use one end panel and one "T" panel for starting unit. Start with assembly in an upright position, with back panel inside rear flange of end panel and bolt (Figure 2).

Add "T" panels and back panels until sides and backs are completely assembled.

#### BACK TO BACK UNITS

Use two end panels and two "T" panels for starting unit. Use four end panels for individual back to back. Start with end panels in an upright position, back to back. Slide back panel between back post of end panels and bolt (Figure 3 & 3A).

### STEP 3. ACCESSORIES

Insert Class III shelf support (if required) in shelves. Add bin fronts, and partial dividers. (Label holders and reinforcing channels are not necessary for the top shelf.) Plastic Buttons are normally furnished for fastening partial and full height dividers (see shelving accessories).

### STEP 4. BOTTOM SHELF (ALL UNITS)

Bolt base strip to bottom shelf. (Figure 4). Hook shelf clips into lowest rectangular slots at bottom of post. Hook back panel clip in third hole from bottom of back panel on single faced units (not required on back to back units). *Note: base strips may not be included in every shelving application.* Position bottom shelf over back panel slip with end flanges hooked on shelf clips and wedge down.

# CLOSED TYPE SHELVING

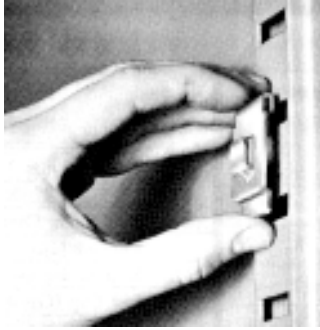


FIGURE 6A

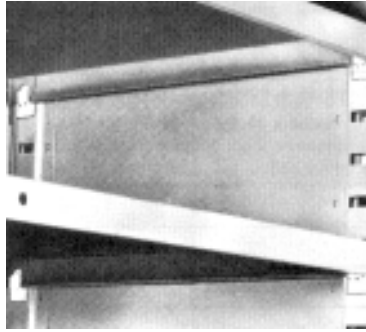


FIGURE 6B

## STEP 5. ADDING REMAINING SHELVES

Hook shelf clips to panels (Figure 6A), position shelves with end flanges hooked on shelf clips and wedge shelves down in locked position as shown (Figure 6B). Back panel clips should be used to secure back panel to shelves, except on back to back shelving.

## Counter Units

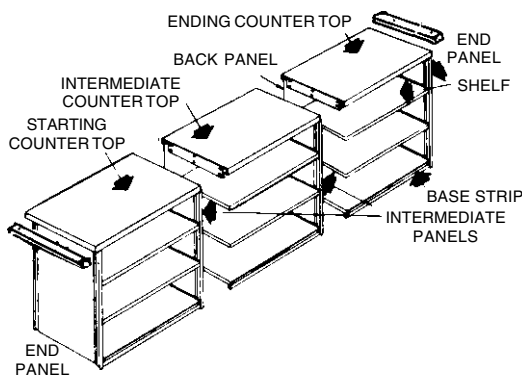


FIGURE 7

### A. END PANELS TO COUNTER FRONT

Bolt end panels and "T" panels to counter fronts as described in Step 1 for individual, starting or adjoining units. Counter units are 3'3" height only. Assemble individual unit in an upright position (Figure 7)

### B. COUNTER TOP AND BOTTOM SHELF

Attach bottom shelf as described in Step 4. Place counter top on unit with end channels inside end or "T" panels and bolt, front and back, through first hole from top of post. On ending and starting units, bolt end caps with tops through end panels using common bolt.

### C. INTERMEDIATE SHELF

Add shelves in same manner as described in Step 5.

## Starting , Adjoining and Back to Back Units - with Multiple Backs

### STARTING AND ADJOINING UNITS WITH MULTIPLE BACKS

Use one end panel and one "T" panel for starting unit. Position lower back panel inside back post of end panel and bolt.

### BACK TO BACK UNITS -- WITH MULTIPLE BACKS

Use two end panels in an upright position, back to back. Slide lower back panel between rear flanges of end panels and bolt (Figure 8).

Leave top holes of lower back panel unbolted, add "T" panels and lower back panels until sides and backs are completely assembled.

- Add bottom shelves (as in Step 4) and shelf near center of unit .
- Add top half of back panels to rack, in same manner as lower half, and bolt.
- Add top shelves to rack as in Step 2.
- Add necessary intermediate shelves as in Step 5.

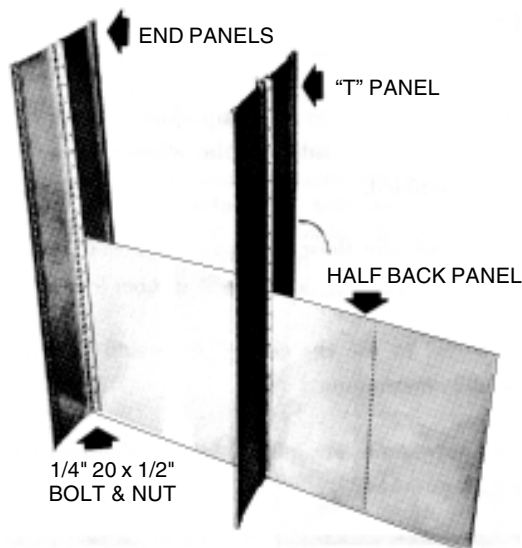


FIGURE 8

# CLOSED TYPE SHELVING

## Ledge Shelving - Starting, Adjoining and Back to Back - with One Piece Backs

Start with individual unit or rack assembled as in Steps 1 and 2 for the particular type Ledge unit desire. (Individual, starting and adjoining or back to back).

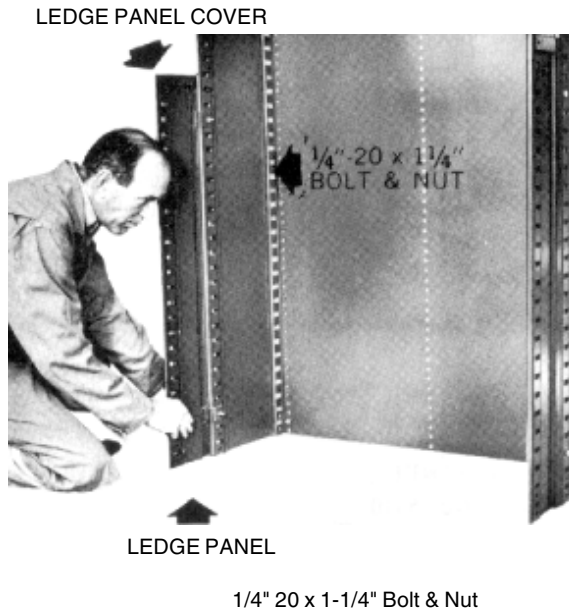


FIGURE 9

### a. Ledge Panels

Place top covers on ledge panels. Position ledge panels against beaded posts with mounting brackets to the inside of posts and bolt thru proper slots in beaded post (Figure 9).

### b. Ledge Shelf and Bottom Shelf

Hook shelf clips in bottom ledge panels in same location as Step 4 and also in rear post. Place shelf on clips and wedge down.

Hook shelf clip in rear post so that ledge shelf is aligned with top of ledge panel. Bolt shelf to ledge panel using 1/4-20 x 1-1/4 bolt and nut, through top oval slot in post. Figure 10.

### c. Intermediate shelves

Add shelves above and below the ledge as described in Step 5, placing shelf clips in ledge panel and rear post only. Assemble accessories to shelves as in Step 3. It's now a simple matter to add shelves above and below the ledge as described in Step 5 (Figure 10).

## Ledge Shelving with Multiple Backs

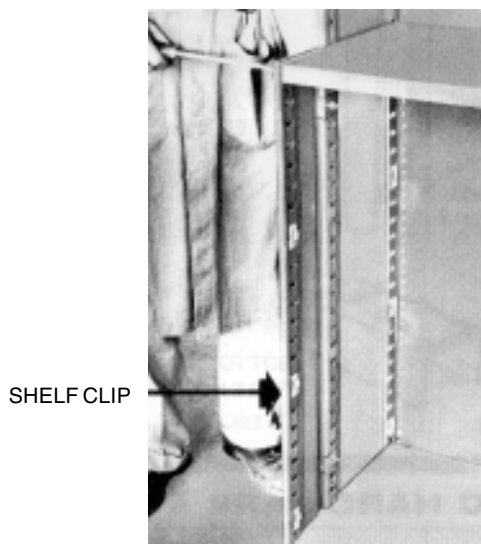


FIGURE 10

### d. End Panels to Lower Back

Assemble panels to lower back panel as in Step 1 for the particular type ledge unit rack to be assembled.

### e. Ledge Panels

Assemble ledge panels to rack as described in (a) above.

### f. Ledge Shelf and Bottom Shelf

Add ledge shelf, and bottom shelf to racks of units as described in (b).

### g. Top Shelf and Back Panel

Add top back panels to rack, in same manner as lower back panel and bolt. Now add top shelf to rack in same manner as described in Step 2.

### h. Intermediate Shelves

It is now a simple matter to add shelves above and below ledge as in (c) above.

FRONT POST

1/4-20 x 1/2 PAN HD

BOLTS HEX NUTS & LOCKWASHERS (5)

Fasten side sway braces to front and back posts of the open

# OPEN TYPE SHELVING

## Side Sway Brace

section, maintaining dimension "A" according to the length of the post.

Sway braces should be placed 6" to 9" above the floor ("A" Dimension)

**NOTE:** For units 8'-3" and 10'-3", 2 pair of braces are required. The first braces "A" Dimension should be 6" to 9", the second brace should be centered in the remaining distance from the top of the first brace to the top of the post.

**NOTE:** If finished end panels are to be used, be sure to lace side sway braces on inside of post with bolt head on outside of post.

### INDIVIDUAL UNIT

Use two beaded posts for front and two back posts.

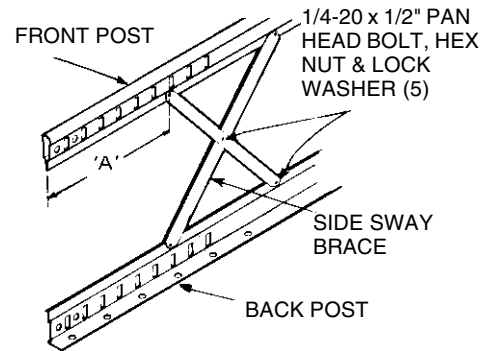
### STARTING UNIT

Use two beaded posts for front, one back post, and one rear "T" post.

### BACK TO BACK

For individual back to back units use four post assemblies with back posts. For starting back to back units use two post assemblies with back post and two with rear "T" posts.

**NOTE:** In Seismic conditions, please consult the factory for information about proper brace placement. Hook shelf clips into second rectangular slot from the bottom of the starting unit and into indentation at the top of



## Top and Bottom Shelf

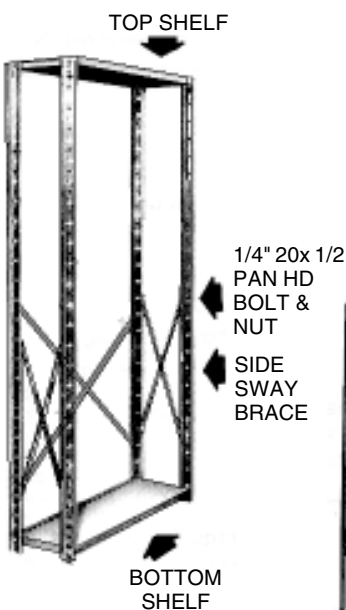


FIGURE 13

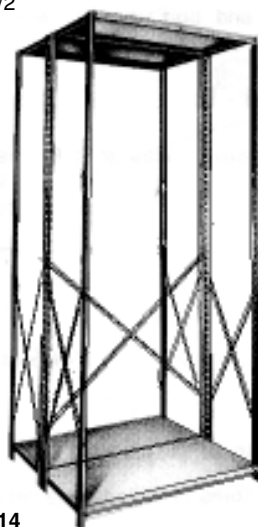


FIGURE 14

### ERECTOMATIC SHELVING

Place shelf clips into second rectangular slot from bottom of posts, and into the indentation at top. Now add the top and bottom shelves to post and sway brace assemblies.

### LOCATING BACK SWAY BRACES

Back sway braces are the cross strap type. They must be bolted to the back posts at 4 points and where they cross in the center. Use 5 1/4" 20 x 1/2" pan hd. bolts and nuts per pair of braces.

See above side sway braces for vertical location.

### INDIVIDUAL UNITS

Starting and/or inserting shelves at top and bottom as per step 5. Stand in upright position and add back sway braces as shown in Figure 13.

### BACK TO BACK UNITS

Assemble units as described above. Stand starting sections in an upright position. Place units back to back. Insert back sway braces between rear posts as shown in Figure 15 and bolt through posts, connecting units together as shown in Figure 14.

**NOTE:** For 8' 3 & 10' 3 high units, use 2 sets of sway braces. For seismic conditions, please consult the factory about proper brace placement.

# OPEN TYPE SHELVING

## Adding Adjoining Units

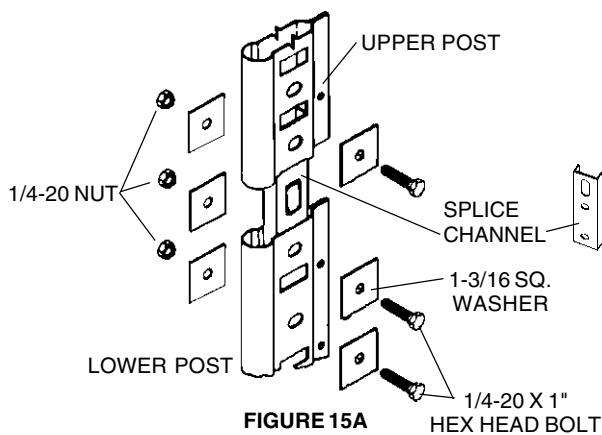


FIGURE 15A

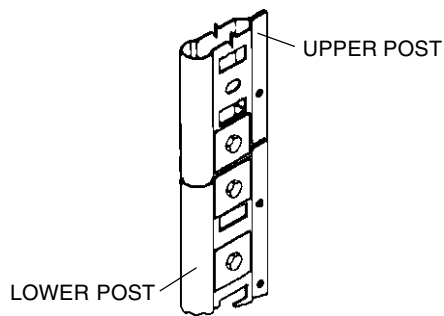


FIGURE 15B

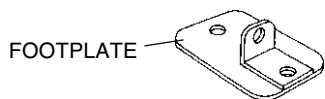


FIGURE 16A

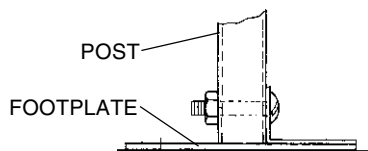


FIGURE 16B

the post assembly. Preassemble a beaded post-rear "T" post combination (two required for an adjoining back to back unit) with shelf clips. Add top and bottom shelves, using them to hold new post combination in place while the sway braces are secured to the back posts.

Add intermediate shelves as required per step 5.

### Post Splice Channel

#### Beaded Front Post and Tee Post –

1. Insert channel in lower front beaded post, (or rear tee or angle) and bolt with 1/4-20 bolts & nuts, through oval slots in end of post. Figure 15A. The oval hole in the Splice Channel is always on top. The two round holes in the splice are always in the lower post.

2. Place upper post over extended splice channel and bolt through oval slots as in step 1. above. Figure 15A. Once completed the post should look like Figure 15B.

#### Back Post –

1. Place splice channel on inside of post and bolt as above. Square Washers are not required when using back angle post.

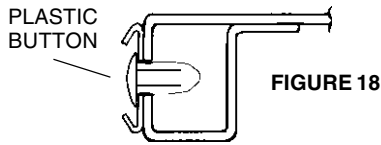
### Footplates

Footplates, Figure 16A, may have been supplied for your installation (Part No. H050H). If you have them, one attaches to the bottom of each Beaded, Angle or Tee Post.

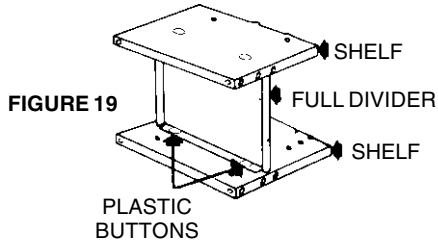
Using a 1/4" x 20 x 1 1/4" Truss Head Screw and a 1/4" x 20 Hex Nut.

Place the Post on a footplate and bolt through the Post and Footplate Riser Bracket as shown in Figure 16B.

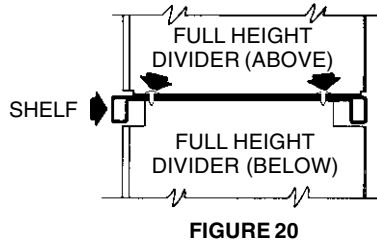
# SHELVING ACCESSORIES



**1. Label Holders** - Label holders are attached to front flange of shelf with plastic buttons. Place label holder against front flange of shelf and push plastic buttons thru holes in shelves (Figure 18).

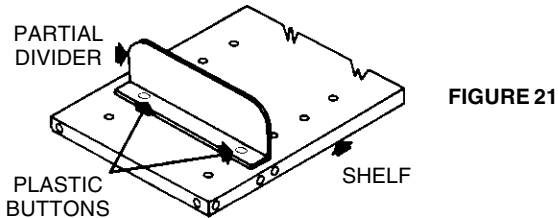


**2. Full Dividers** - Any shelf opening may be divided into two or more bins by the installation of full dividers. To install dividers, place them in position between the shelves where required and align slots in the flanges of the dividers with holes in shelves. Attach dividers to shelves with plastic buttons (Figure 19). Note: Dividers over 20" high are furnished with nuts & bolts.



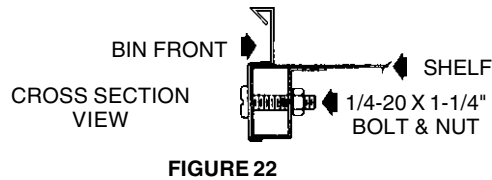
Where dividers are above and below a shelf and in alignment, use common buttons to attach the two dividers, as in Figure 20.

Dividers may also be bolted to shelves by customer but only buttons are furnished as hardware.



**3. Partial Dividers** - Partial dividers are attached to shelves where required as illustrated, with buttons (Figure 21).

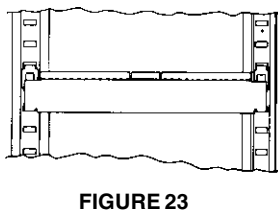
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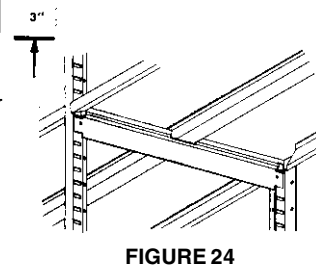
**4. Sliding Divider** - Can be positioned anywhere along the shelf surface to sub-divide the storage surface.

**5. Offset Bin Front** - Bin fronts are attached to front flange of shelf with 1/4"-20 x 1-1/4" pan hd. bolts and nuts.

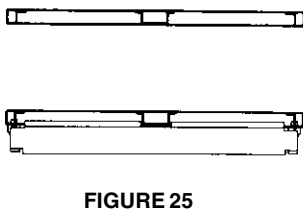
Place bin front against front flange of shelf as shown and bolt thru holes in bin front and shelf (Figure 22).



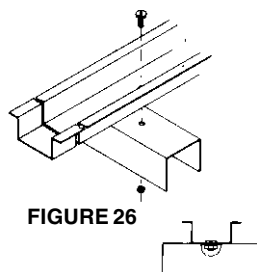
**6. Class 3 Shelf Support** - A Class 3 shelf support is used for class 3 shelf classification. Position support into second rectangular slots directly below required shelf position as shown in Figure 23.



Insert top of shelf clip into second rectangular slot above Class 3 shelf support. Now place shelf with reinforcing Hat section positioned in the center of shelf, into clips and wedge shelf down in locked position.



**7. Class III Shelf Support Brace** - Insert shelf clips in post at desired location, then insert Class Three Shelf Supports in slot below shelf clip in front and rear posts as shown in Figure 24. Insert hat shaped Class II Center Support with flange up against underside of shield and under return flange on side of shield. Align with center of shelf and place on shelf clips. Be sure center tab on H136 Shelf Support Brace is on outside of shelf and reinforcement is lined up with notch in support brace, then wedge shelf into clips Figure 25.



**8. Bottom Shelf Class III** - Bolt Class III Center Support Hat Section to bottom shelf support brace as shown in Figure 26. Insert this assembly into shelf as described above. Place in unit on shelf clips and wedge shelf into clips. H136 shelf support braces are not required.



# H-POST SHELVING INSTRUCTION SHEET

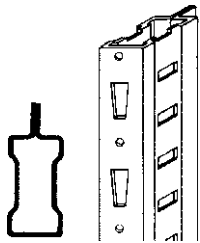
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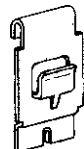
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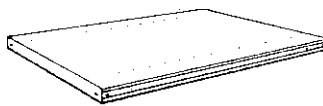
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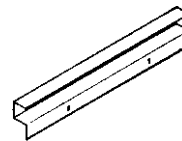
H POST



SHELF CLIP



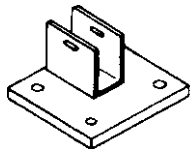
SHELF



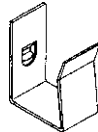
BIN FRONT



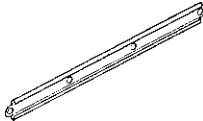
POST SPLICE



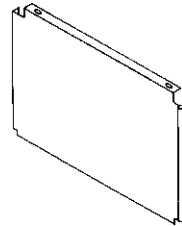
FOOT PLATE



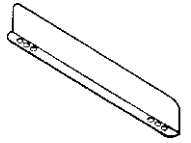
BACK PANEL CLIP



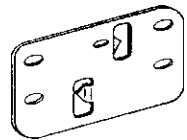
LABEL HOLDER



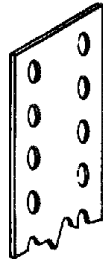
FULL DIVIDER



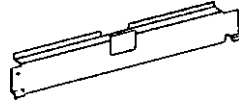
PARTIAL DIVIDER



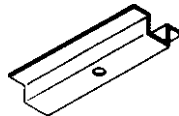
POST CONNECTOR



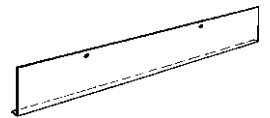
BACK PANEL CONNECTOR



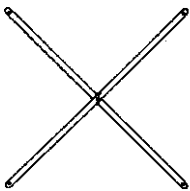
SIDE SHELF SUPPORT



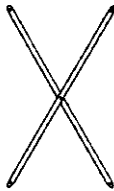
CENTER SUPPORT HAT SECTION CLASS III



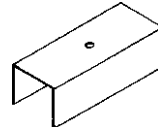
BASE STRIP



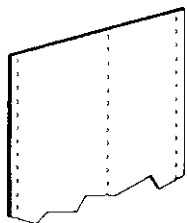
BACK SWAY BRACE



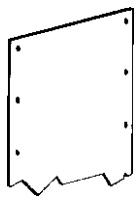
SIDE SWAY BRACE



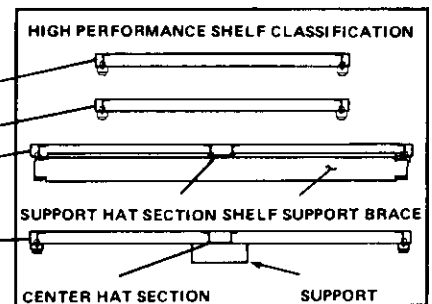
SUPPORT BRACE FOR BOTTOM SHELF CLASS III



BACK PANEL



SIDE PANEL



## H POST SHELVING HARDWARE SCHEDULE

ITEM	#14 X 5/8" TYPE "B" HEX HEAD S.M.S.	1/4-20 X 1/2" TRUSS HEAD BOLTS & NUTS	1/4-20 X 1-1/4" TRUSS HEAD BOLTS & NUTS	HEX HEAD BOLT & HEX NUT	1/4-20 X 5/8" PAN HEAD BOLT & HEX NUT	1/4" SQUARE FLAT WASHER	PLASTIC BUTTONS	COMBINATION CLIP	BACK PANEL CLIP
Back Panels 3' 3" Single Face		6							2
4' 3"		6							2
7' 3"		12							4
Foot Plate				1		2			
Side Sway Braces		5							
Back Sway Braces Single Face		5						Order necessary combination clips see below	
Back Sway Braces Double Face		5			Order as a separate additional item 4 per pair			Order necessary combination clips see below	
Side Panel 3' 3"		8							
7'3"		16							
* Back Panel Connecting Strip End	3' (4) 4' (5) 7' (8)								
* Back Panel Connecting Strip Intermediate	3' (4) 4' (5) 7' (8)								
Bin Front		2	2						
Full Height Dividers							2-3/4		
Partial Dividers							2		
Base Strip			2						
Post Splice				4		8			
Combination Clips	1								

\*NOTES: On some applications where practical, part # 8474 Pop Rivets may be supplied instead of part # 8407 Hex Head S.M.S., for attaching Back Panel Connecting Strips. Consult with factory to determine which has been supplied.

# H-POST SHELVING

## Individual & Starting Units Open Type

**Step 1:** Assemble (2) post sections by attaching side sway braces to posts at location shown in Fig. 1. See fig. 1 and 2 for side sway brace placement regarding H-Post length and measurement "A".

**Step 2:** Hook shelf clips into indentation at top of posts and into first and second slots from bottom of post. Place top shelf on clips on one post assembly and wedge shelf into clip; repeat with bottom shelf. Now put second post assembly on other end of shelf in the same manner. Fig. 3.

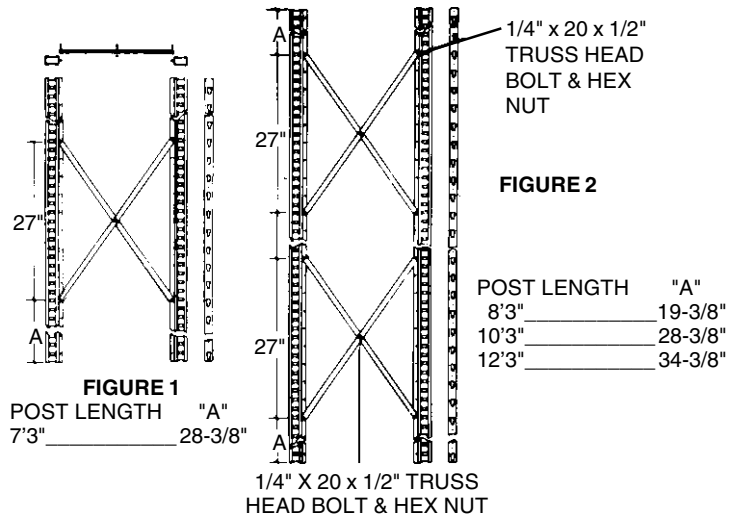
**Step 3:** Attach combination clips to face of post at location shown in Fig. 4. Twist clip into slots as shown in Fig. 4A. For 7 ft. & 8 ft. post, locate post connectors close to the bottom of the unit. For 10 ft. & 12 ft. post use two sets of braces, one near the bottom of the unit, the other 30" above. Be sure to put clips in same locations on all posts to insure proper alignment for attaching sway braces. For single faced or individual units a # 14 x 5/8 type "B" hex head thread cutting screw must be screwed in center hole to prevent rotation of connector. Fig. 5.

**Note:** After inserting connector, tap upper right hand corner of connector with hammer, to square clip up with post. See Fig. 4A.

**Step 4:** Attach sway braces to post connectors. Be sure to attach braces as per Fig. 6. Use 1/4-20 x 1/2 truss head bolts and keps nuts.

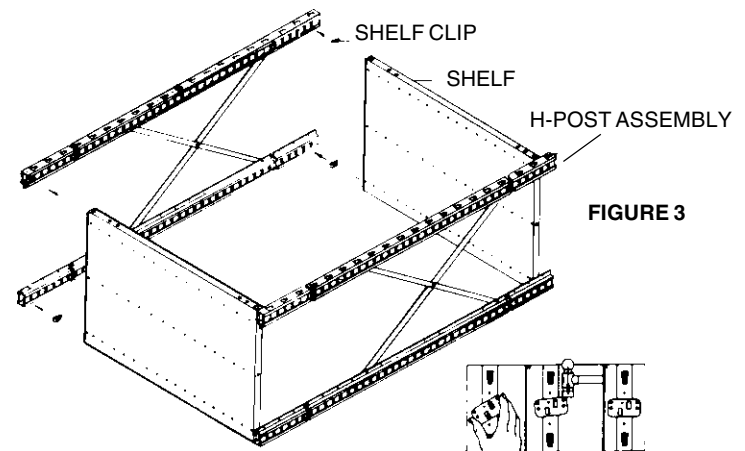
**Step 5:** Stand unit upright--Add additional shelves at desired locations.

**NOTE:** Penco H-Post Shelving construction in seismic areas may require different brace placement, please contact the factory for details.

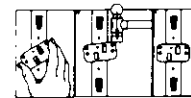


**FIGURE 2**

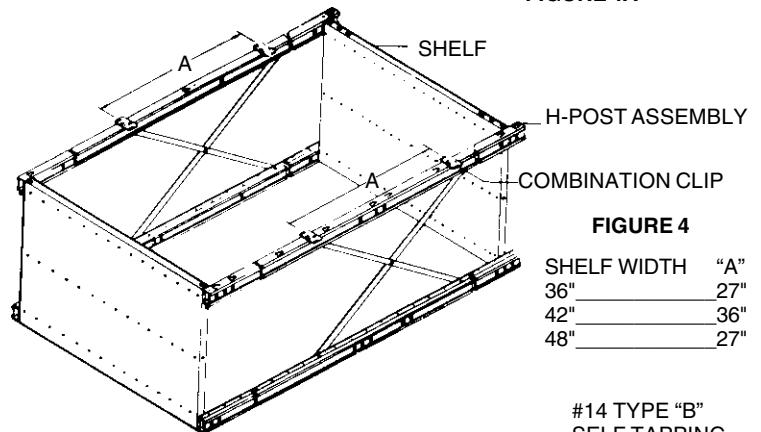
POST LENGTH	"A"
8'3"	19-3/8"
10'3"	28-3/8"
12'3"	34-3/8"



**FIGURE 3**



**FIGURE 4A**

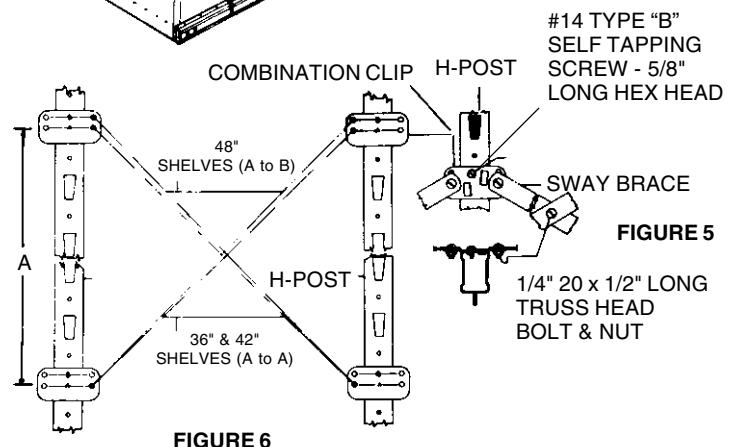


**FIGURE 4**

SHELF WIDTH	"A"
36"	27"
42"	36"
48"	27"

## Adjoining Units

**Step 1A:** Assemble (1) post section per Step 1. Add post connectors as per Step 3. Place shelf clips in starting unit post and adjoining post assembly as per Step 2 and insert top and bottom shelf. Attach sway braces to post connectors as per Step 4.



**FIGURE 6**

**FIGURE 5**

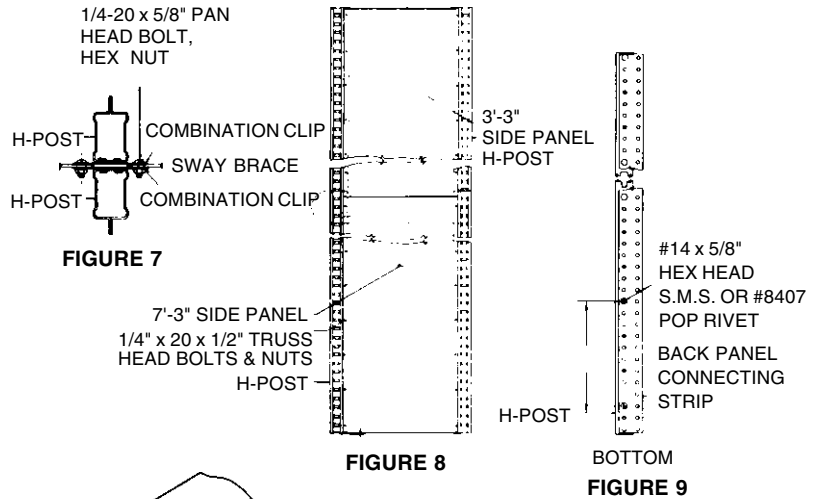
# H-POST SHELVING

## Back-to-Back Units

**Step 1B:** Assemble post and side sway braces for (2) units as per Step 1. Add post combination clips as per Step 3. Add shelves as per Step 2. Stand units up and push together so that post connectors are in alignment. Bolt back sway braces to post connectors making sure sway brace is between post connectors, Fig. 7. Use 5/8" pan head bolts and nuts.

**Step 2B:** Add additional shelves at desired locations.

**Step 3B:** Add adjoining units as per Step 1A & 1B.



## Individual & Starting Units Closed Type

**Step 1C:** Assemble (2) post sections by attaching side panel to post with bolts & nuts on 12" centers. Keep panel 1/8" from end of Post at the bottom, Fig. 8. Use 1/4" x 20 x 1/2" tuss head bolts & nuts.

**Note:** For units over 7'3", a 7'3" and side panel are required. For appearance sake, place the 3'3" panel at top. Place the 7'3" side panel over upper panel.

**Step 2C:** Attach back panel connecting strips to post with #14 x 5/8 hex head S.M.S., Fig. 9.

**Note:** For 8'3" use (1) and (1) 3' connecting strips and overlap so that bottom strip is on top of upper strip.

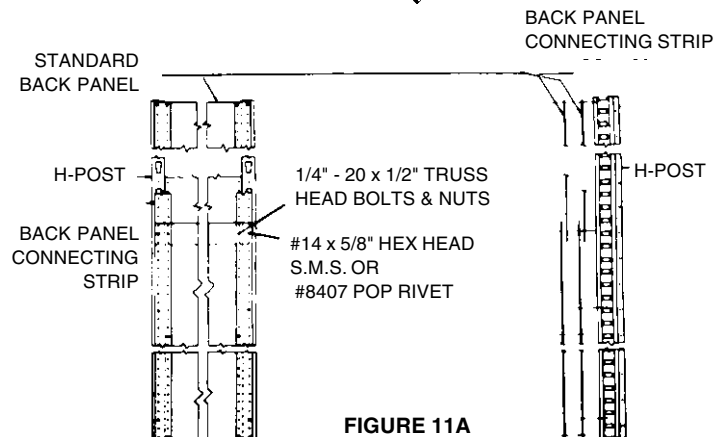
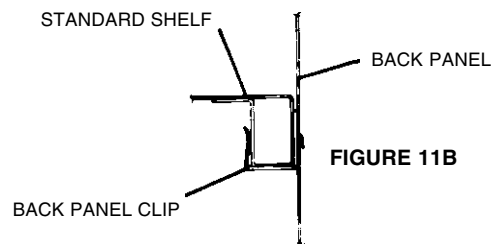
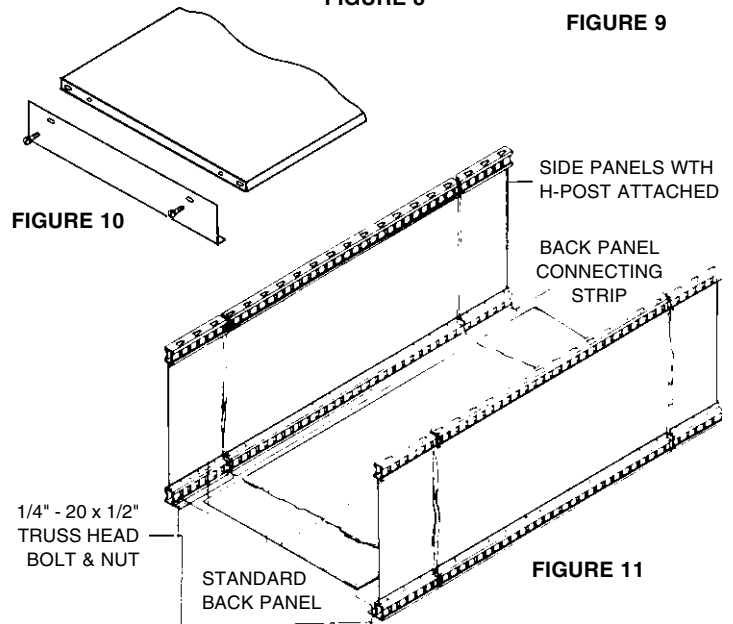
**Step 3C:** Bolt base strip to bottom shelf, Fig. 10. Use (2) 1/4-20 x 1-1/4 truss head bolts and nuts. **Note:** Base strips may not be included in every application.

**Step 4C:** Place back panel inside connecting strips and bolt back panel to connecting strips on 12" centers, Fig. 11. Use 1/4-20 x 1/2 truss head bolts and nuts.

**Note:** When unit height is over 7'3", two back panels are required. Sizes will depend on height of unit. Always put shortest panel at top and inside lower panel for best appearance, Fig. 11A.

**Step 5C:** Hook shelf clips into indentation at top of posts and into first and second slots from bottom of post. Hook back panel clips through top center hole in back panel and third hole from the bottom. Position shelf with rear flange on back panel clip and hook end flanges of shelf on shelf clips, then wedge in lock position. Fig. 11B.

**Step 6C:** Add additional shelves at desired locations.



# H-POST SHELVING

## Single Faced Starting Unit Closed Type

**Step 1D:** Use same procedure as individual units above except in Step 2C, use (1) connecting strip and (1) connecting strip. The strip is for continuous units and is bolted to all intermediate posts. See Fig. 12. Be sure to overlap strips with top strip under bottom strip when unit height is over 7'3".

## Back-to-Back Units

**Step 1E:** Assemble post sections as per Step 1C

**Step 2E:** Put combination clips on post on 12" centers as per Step 3 (if supplied), otherwise attach back panel connectors strips as shown in Fig. 12.

**Step 3E:** Stand units up and place post sections on either side of back panel so that combination clips (or connector strips) align with each other and bolt together using 1/4-20 x 1/2 truss head bolts and nuts through top hole in clip. See Fig. 13 and 13A. Note: For units over 7'3" high install back panels as per Step 4C.

**Step 4E:** Add post sections to other side of back panel as per above.

**Step 5E:** Install shelves as per Step 5C. Be sure bottom shelf has base strip assembled. See Step 3C.

**Step 6E:** Add additional shelves at desired locations.

**NOTE:** In some requirements, back panel connector strips may be used rather than combination clips in back-to-back units. In those cases, see Figure 12 for attachment details. Consult with Penco to determine components supplied.

## Post Splice

**Step 1Q:** Insert post splice into top of lower post so that "Y" shaped part is facing the front of post, Fig. 14

**Step 2Q:** Align hole in post with hole in post splice piece so that half of splice is exposed, Fig. 14. Attach with 1/4-20 x 1 3/4" hex head bolt, sq. flat washers and nut. Four bolts, four nuts and 8 flat washer are provided with each splice.

**Step 3Q:** Place upper post over splice and slide together. Fig. 14A.

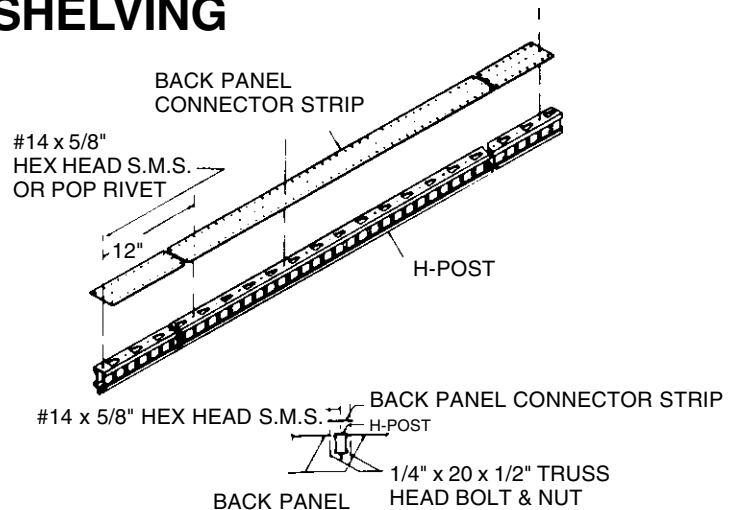


FIGURE 12

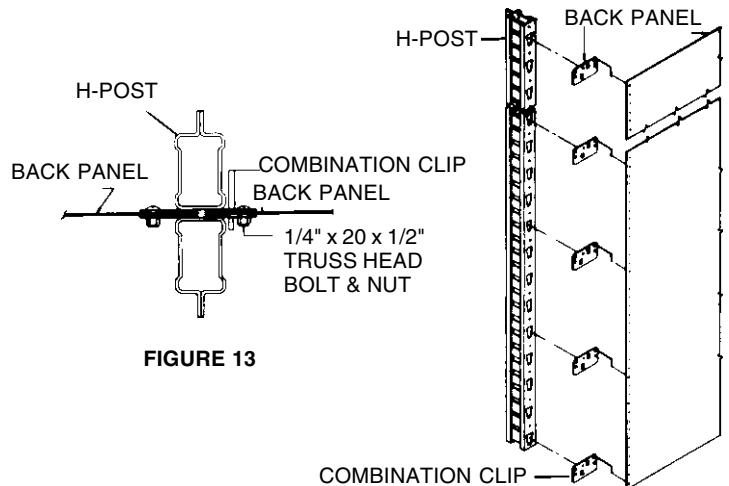


FIGURE 13

FIGURE 13A

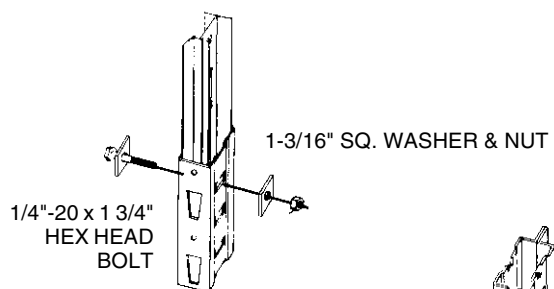


FIGURE 14

TWO NUT AND BOLT ASSEMBLIES GO ABOVE AND BELOW THE POST JUNCTION THROUGH THE SPLICE HOLES.

FIGURE 14A

# SWINGING DOOR ASSEMBLY INSTRUCTIONS

**Step 1:** Remove three items from carton. Door and frame assembly, lock bars and hardware kit.

**Step 2:** Read all information on assembly instruction and familiarize yourself with all component names.

**Step 3:** Bolt universal clips to post with 1/4-20 x 1-1/4" truss head bolts and hex nuts. Use four universal clips on 36" and 48" door and frame, and use six universal clips on 73" and 85" door frame. Bolt door and frame to universal clips with two 1/4 -20 x 1/2" truss head bolts and hex nuts.

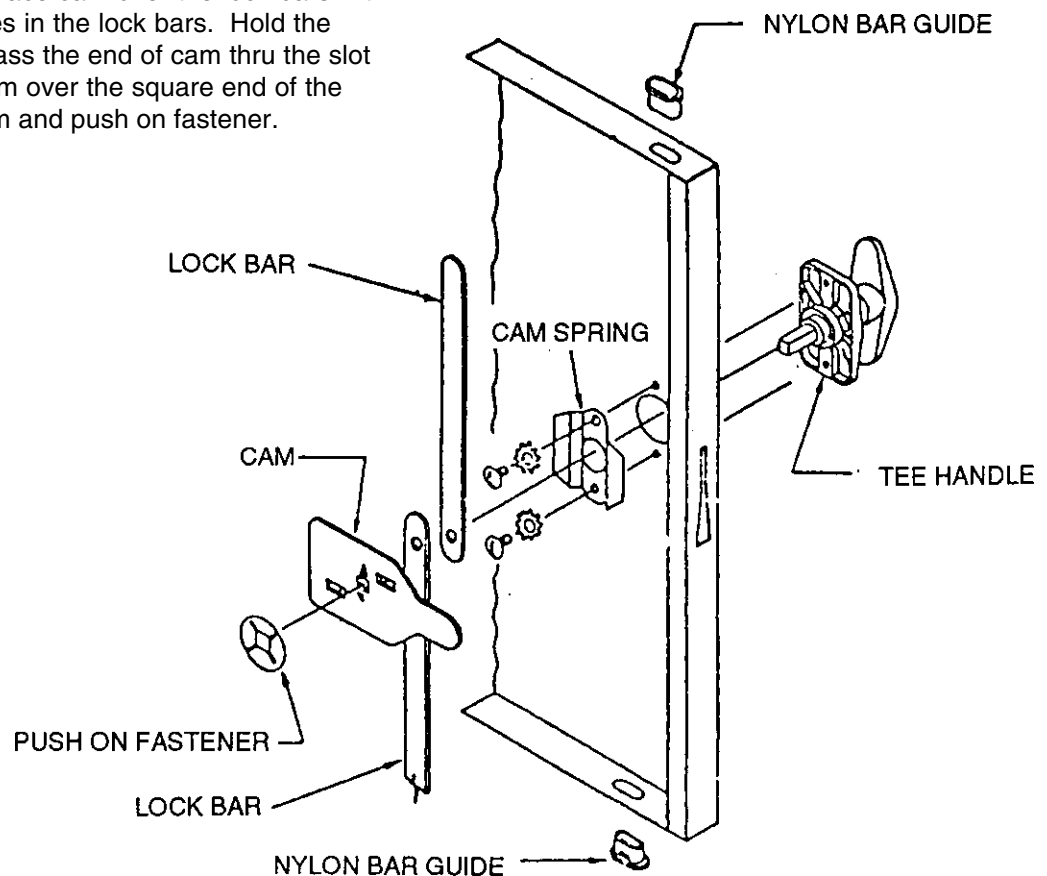
**Step 4:** Assemble handle and other locking mechanism to door per handle instructions. Keep door handle on R. H. door.

## Handle Assembly Instructions

**Step 1:** Attach handle with cam spring to the right hand door with the two screws and washers packed with the lock.

**Step 2:** Apply the nylon bar guides in top and bottom door slots.

**Step 3:** With right hand door laying down, pass lock bars thru the top and bottom nylon guides. Place ends with holes on the cam spring, place cam over the lock bars with "lugs" in cam entering holes in the lock bars. Hold the three parts together and pass the end of cam thru the slot in the door. Now place cam over the square end of the handle, press down on cam and push on fastener.



# PENCO SLIDING DOOR ASSEMBLY INSTRUCTIONS

**STEP 1.** Assemble nylon upper door guides, rubber bumper lock (See detail A) and roller assemblies to sliding doors as shown. Roller assemblies & guides are mounted with #10 24 x 3/8 pan-head screw & nuts. Assemble locking strike (see detail) with 1/4-20 x 1/2 " truss Head bolt, square nut & lock washer.

**STEP 2. FOR MOUNTING TO BEADED POST** — Mount three universal clips to inside of each beaded post (use only two clips for 36" high doors) with 1/4-20 x 1-1/4" truss head bolt, square nut, flat washers and lock washers, using one bolt per clip. Reference to detail "C" shows position of upper most clip in all applications i.e. (bolt thru second 3/8 x 7/16" slot from top of post. Bottom clip (see detail D) is bolted on at third 3/8 x 7/8" rectangular slot from bottom in all applications. Intermediate clip is positioned at approximate center of opening & bolted thru any available 3/8 x 7/8" rectangular slot in this vicinity. Bolts should be left loose enough to allow clips to position themselves.

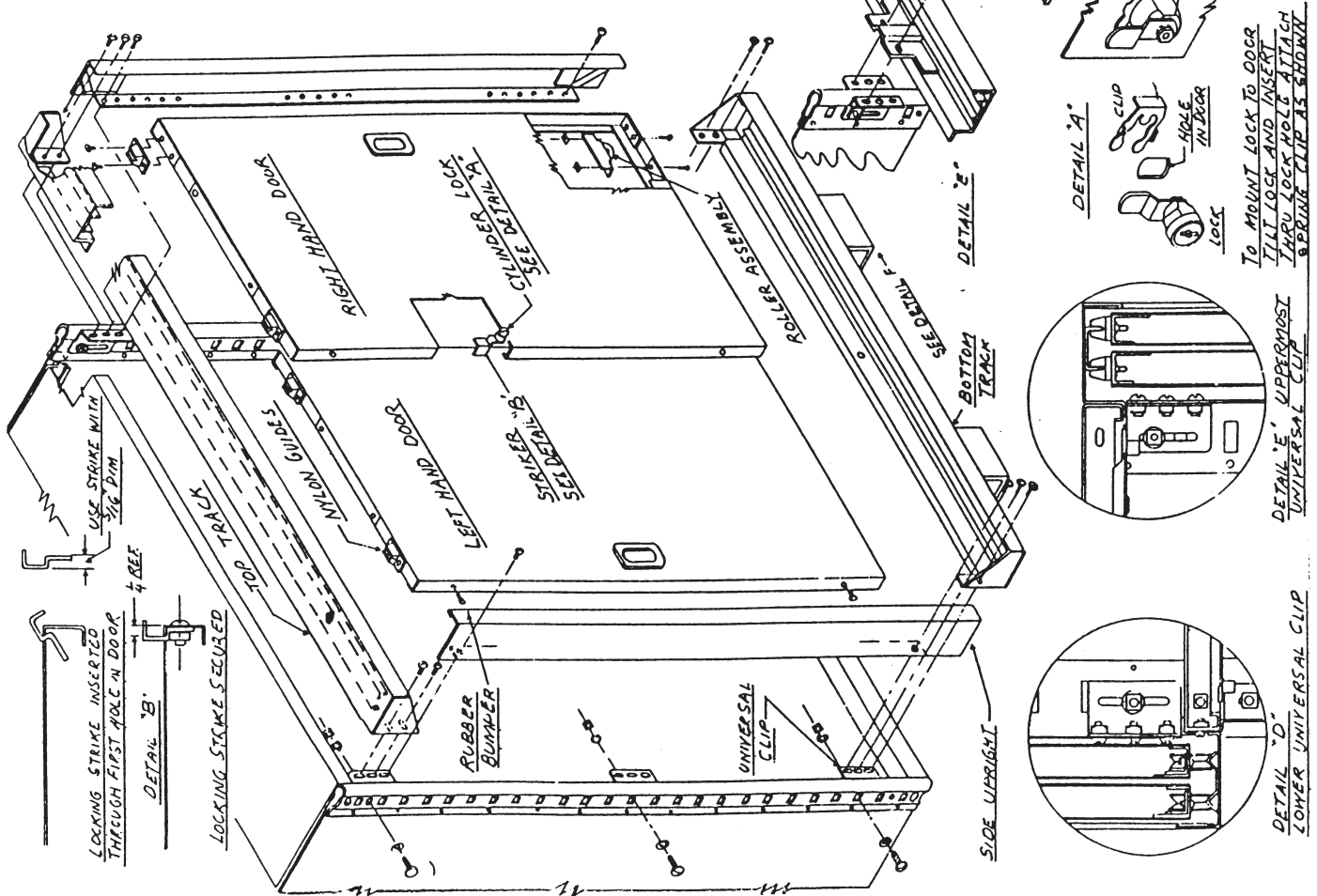
**STEP 3.** Bolt bottom track to lower universal clips at ends (single shelving unit) refer to detail "D". At ends and also thru center bracket (double shelving unit) with 1/4-20 x 1/2" truss head bolts & square nuts, refer to detail "E". For double width unit, a center support is furnished. Bolt center support to bottom track with 1/4-20 x 3/4" truss head bolts & square nuts (see detail "E").

**STEP 4.** Position grooves of door rollers on bottom track, right hand door has lock & is placed in outermost position.

**STEP 5.** Insert channel flanges of top track into grooves of nylon door guides & bolt track to uppermost universal clips with 1/4-20 x 1/2" truss head bolts & square nuts. (see detail "C")

**STEP 6.** Ease side uprights into position. Place bottom end on first & then snap top end place. Bolt side uprights to universal clips at top & bottom with 1/4-20 x 1/2" truss head bolts & square nuts. Center universal clip is to further secure side uprights with same hardware.

**STEP 7.** After doors are in place, align frame members & square up unit by shimming post if necessary, to insure satisfactory door operation. Check & tighten all universal clip mounting bolts. If doors bind (do not operate freely) raise the bottom rollers by introducing #10 washers between the roller bracket & bottom door channel. This has the effect of reducing their overall height of the door assembly by the thickness of the washer used. To correct track jumping, raise the upper nylon guide by introducing #10 flat washers between the guide & the top door channel. This has the effect of increasing the overall height of the door assembly by the thickness of the washer used.



# NOTES



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