

# Metal Storage Shelves Assembly Guide

## SMS-08-V39-F

### CAUTION

*IT IS THE RESPONSIBILITY OF THE PERSON 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 person who will actually supervise the assembly of the equipment covered by your order. -- Please see that they get 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 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 instructions.*
7. *Make sure units are plumb before tightening sway braces and/or back panel bolts.*





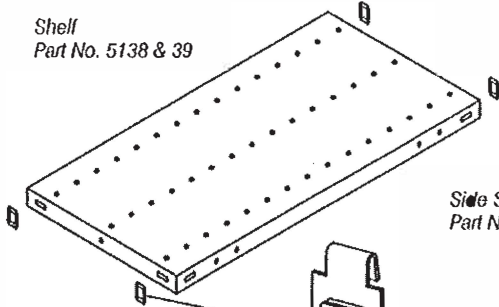
<i>ITEM</i>	<i>Nuts &amp; Bolts 1/4-20 x 1/2" lg.</i>	<i>Nuts &amp; Bolts 1/4-20 x 1 1/4" lg.</i>	<i>Back Panel Clips Part No. 5120</i>	<i>Spring Clips Part No. 5260</i>
<i>Back Panels 3' 3"</i>	6		3	
<i>Back Panels 6' 3"</i>	8		4	
<i>Back Panels 7' 3" and 8' 3"</i>	10		4	
<i>Back Panels 10' 3"</i>	12		5	
<i>Shelf Reinforcing Channels</i>	3			
<i>Bin Fronts</i>		3		
<i>Base Strips</i>	3			
<i>Full Dividers (up to 18" deep)</i>				4
<i>Full Dividers (24" deep)</i>				6
<i>Partial Dividers (up to 18" deep)</i>				2
<i>Partial Dividers (24" deep)</i>				3
<i>Label Holders</i>				3
<i>Back Sway Braces</i>	5			
<i>Side Sway Brace</i>	5			

*NOTE: All bolts are Truss Head type with hex type nuts.*

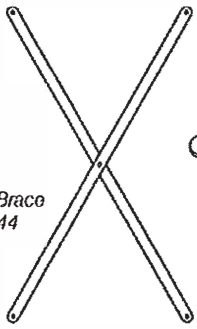


# PARTS BREAK-OUT

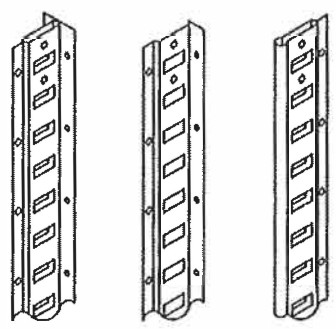
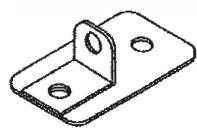
Shell  
Part No. 5138 & 39



Side Sway Brace  
Part No. 5344



Foot Plates  
Part No. 5050



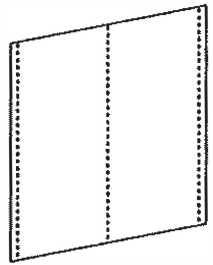
T-Post for Adjoining Sections  
Part No. 5006

Back Post  
Part No. 5004

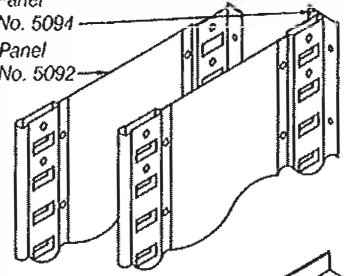
Beaded Front Post  
Part No. 5002

Shell Clip  
Part No. 5133

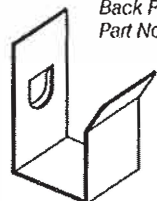
Back Panel  
Part No. 5111



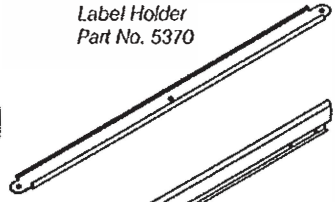
End Sections For Closed Type Shelving "T" Panel  
Part No. 5094  
End Panel  
Part No. 5092



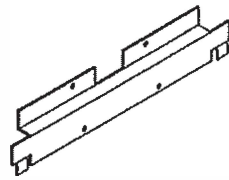
Back Panel Clip  
Part No. 5120



Label Holder  
Part No. 5370

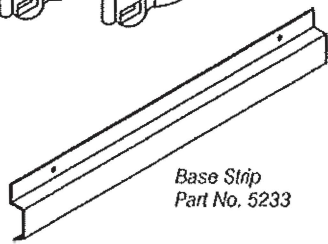


Side Panel  
Part No. 5096

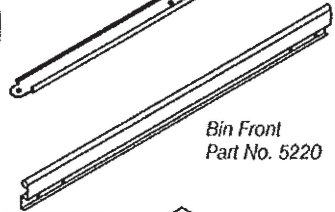


Class III Shell Support  
Part No. 5136

Base Strip  
Part No. 5233



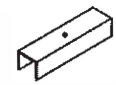
Bin Front  
Part No. 5220



Class III Center Support Hat Section  
Part No. 5137



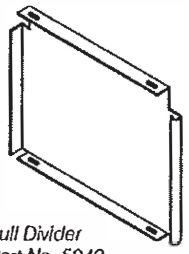
Class III Bottom  
Part No. 5131



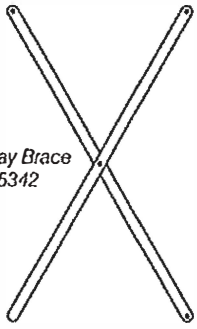
Splice Channel  
Part No. 5009



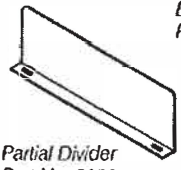
Spring Clip  
Part No. 5260



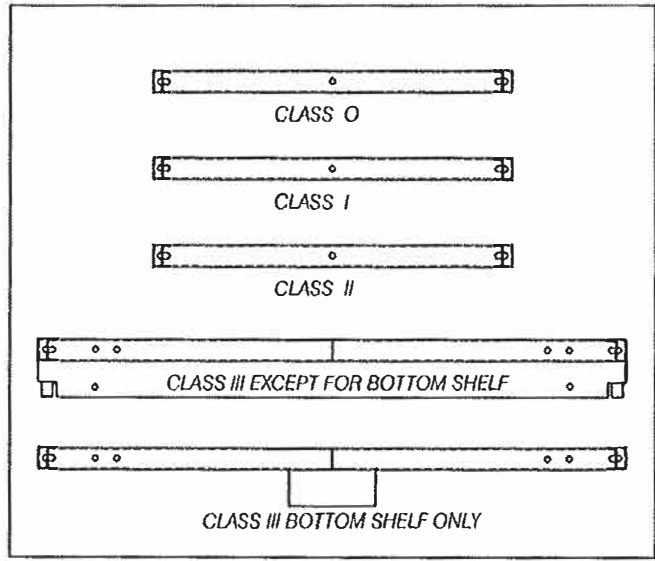
Full Divider  
Part No. 5240



Back Sway Brace  
Part No. 5342

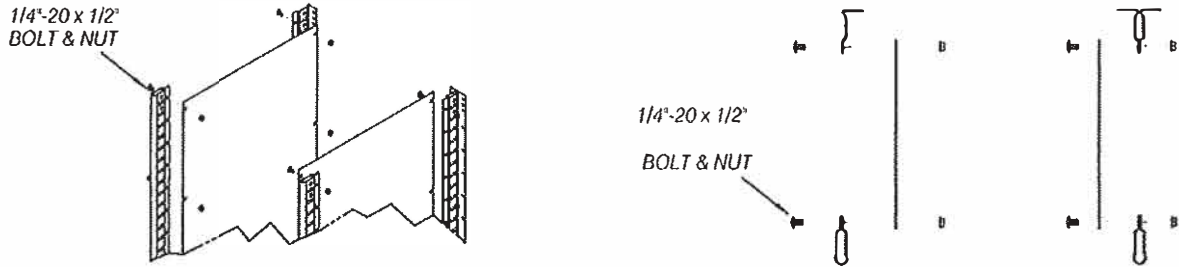


Partial Divider  
Part No. 5250



# CLOSED TYPE SHELVING

## END PANEL AND "T" PANEL ASSEMBLY



## INDIVIDUAL UNITS - 3' 3" TO 10' 3" HEIGHTS

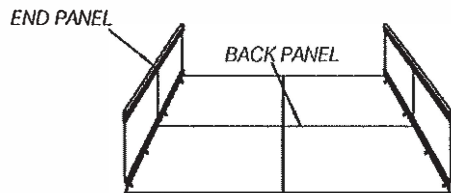


FIGURE 1

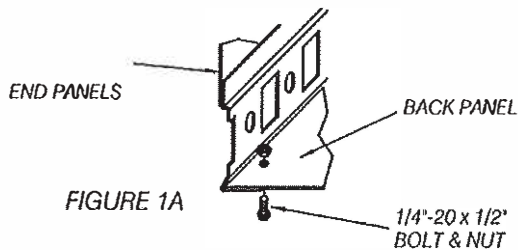


FIGURE 1A

### 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 flat on floor, bench or trestles. Slide inside of back post on end panel under back panel and bolt. (Figure 1 & 1A)

NOTE: Units 3' 3" or greater in height require multiple back panels which overlap.

### BACK TO BACK UNITS

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

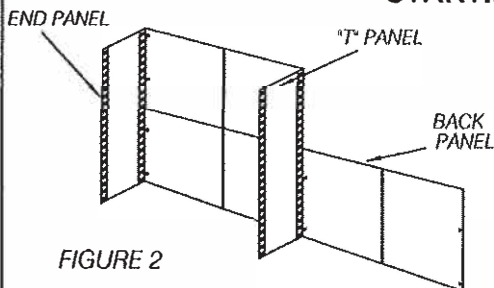


FIGURE 2

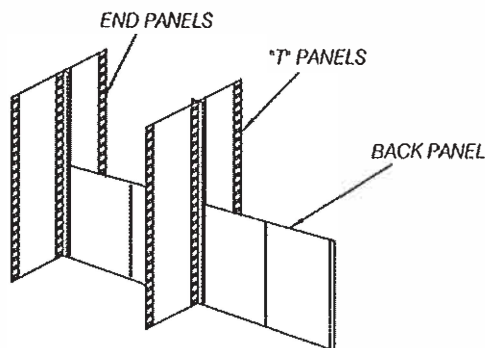


FIGURE 3

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

Use two end panels in an upright position, back to back. Slide lower back panel between rear flanges of end panels and bolt (Figure 3).

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

- Add bottom shelves (as in Step 4) and shelf near center of units (as in Step 5).
- 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.



# CLOSED TYPE SHELVING

## STEP 2.

TOP SHELF (See Step 2 for Individual Units)

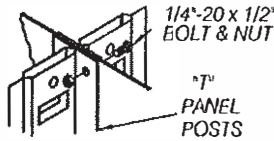


FIGURE 3A

## STEP 3. ACCESSORIES

Insert Class III shelf support (if required) in shelves. Add bin are not necessary for the top shelf. Spring clips are normally

## STEP 4. BOTTOM SHELF (All Units)

Bolt base strip to bottom shelf. (Figure 4). Hook shelf clips into second rectangular slots from bottom of post. Hook back panel to back units.

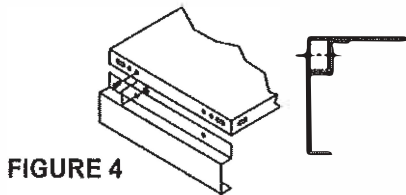


FIGURE 4

Position bottom shelf over back panel clip with end flanges hooked on shelf clips and wedge down.

## 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 6). Back panel clips should be used to secure back panel to shelves, except on back to back shelving. (Figure 7)

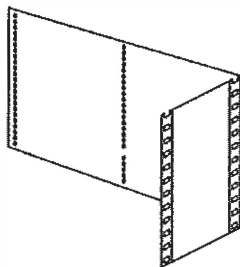


FIGURE 5

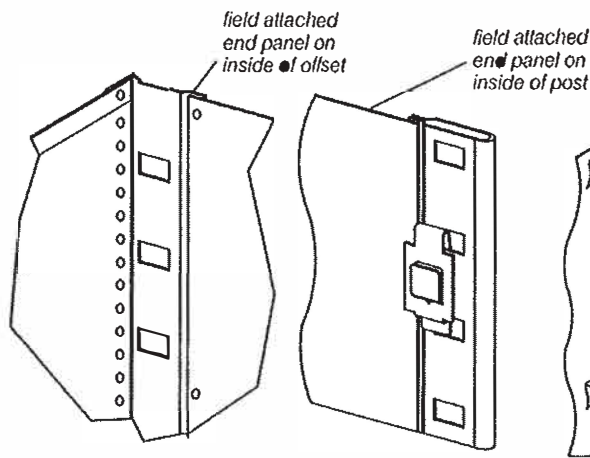


FIGURE 6B

FIGURE 6A

FIGURE 6

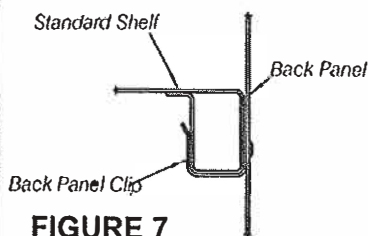


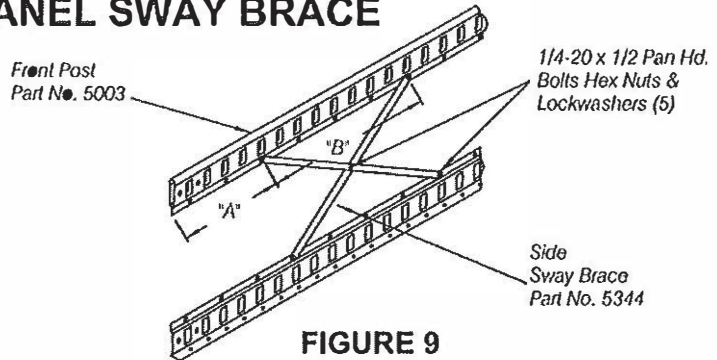
FIGURE 7



# OPEN TYPE SHELVING

## SIDE PANEL SWAY BRACE

POST HEIGHT	SHELF DEPTH	"A"	"B"
3' - 3'	12	9"	21"
	15	7 1/2"	24"
	18	6"	27"
	24	6"	27"
	30	6"	27"
	36	6"	27"
6' - 3'	12	27"	21"
	15	25 1/2"	24"
	18	24"	27"
	24	24"	27"
	30	24"	27"
	36	24"	27"
7' - 3'	12	33"	21"
	15	31 1/2"	24"
	18	30"	27"
	24	30"	27"
	30	30"	27"
	36	30"	27"
8' - 3' <sup>*</sup>	12	24"	21"
	15	21"	24"
	18	18"	27"
	24	18"	27"
	30	18"	27"
	36	18"	27"
10' - 3' <sup>*</sup>	12	31 1/2"	21"
	15	28 1/2"	24"
	18	25 1/2"	27"
	24	25 1/2"	27"
	30	25 1/2"	27"
	36	25 1/2"	27"



**FIGURE 9**

Fasten side sway braces to front and back posts of the open section, maintaining dimension "A" according to the length of the post.

**NOTE:** If finished end panels are to be used, be sure to place 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

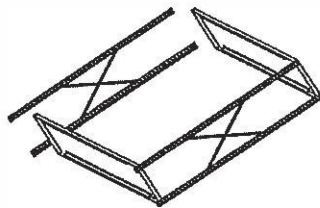
Use two beaded posts for front, one back post, and one rear "T" post.

### BACK TO BACK

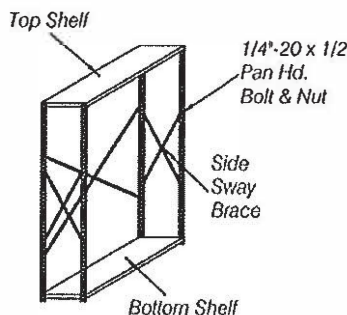
For individual back to back units use four post assemblies with back posts. For starting back to back units use two post assemblies with back post and two with rear "T" posts.

<sup>\*</sup> These heights require two pair of sway braces. Hold "A" from each end of post.

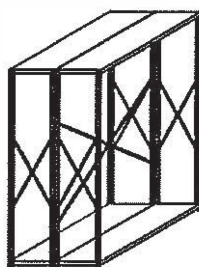
## TOP AND BOTTOM SHELF



**FIGURE 10**



**FIGURE 11**



**FIGURE 12**

### A. HI-TECH 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. (Figure 10)

### 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 five 1/4"-20 x 1/2" pan hd. bolts and nuts per pair of braces.

### 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 11.

### 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 13 and bolt through posts, connecting units together as shown in Figure 12.

**NOTE:** For 8'-3" & 10'-3" high units, use 2 sets of sway braces.

