

**AX-SXR**

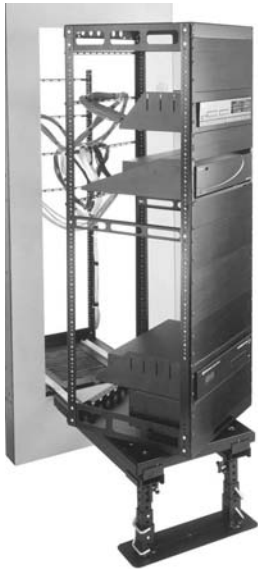
PATENT # 5,185,818

**ROTATING EQUIPMENT ACCESS SYSTEM  
ASSEMBLY INSTRUCTIONS**OVERVIEW

For millwork, custom cabinet & flush in-wall installation

Providing a unique method of service, the AX-SXR system allows an entire bay of equipment to pull out on removable service tracks and rotate for access to rear when servicing

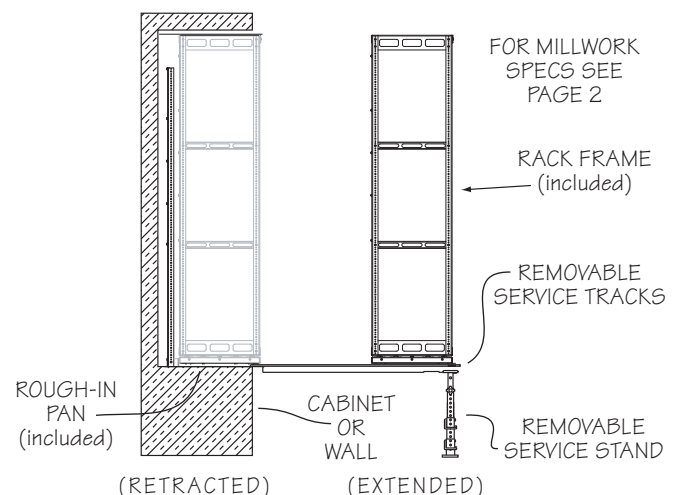
Upon installation or service completion the rolling rack frame retracts, service tracks are disconnected and the system is secured with locking trim panel

Features

- Shortens installation and service time
- Rack rotates 60° for access to rear when servicing
- Detachable rack frame allows off-site equipment integration
- The AX-SXR has a track extension of 31" for servicing
- Rack frame can be 3" to 40" off floor, providing installation flexibility
- Useable rack frame heights range from 15 spaces (26-1/4") to 43 spaces (75-1/4")
- Rack frame 20" deep
- 450 lb. capacity with proper weight distribution, 1/2 of total component weight must be mounted in lower 1/3 of the rack

## OUTLINE OF ASSEMBLY STEPS

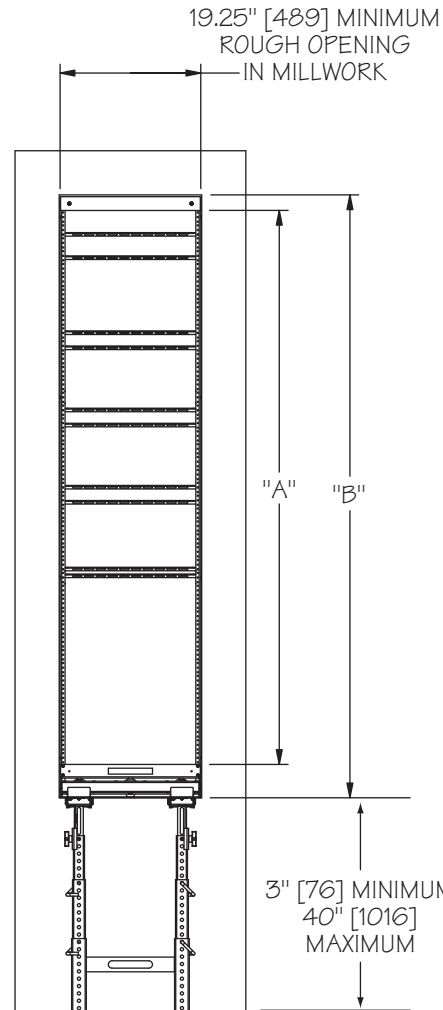
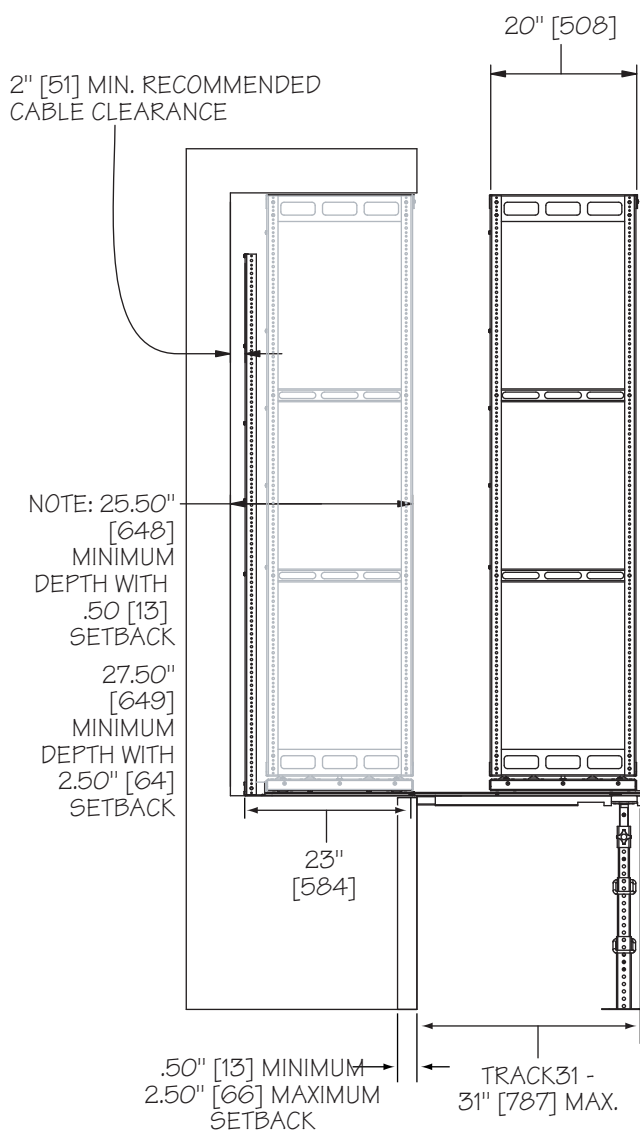
- 1) Construct rough opening
- 2) Assemble frame and attach base
- 3) Assemble rough-in pan and install in millwork opening
- 4) Install service tracks on stand
- 5) Install frame on tracks
- 6) Cable management
- 7) Secure rack to millwork

Outline Of Functioning Assembly

1) Construct rough opening and base

All dimensions in inches unless otherwise noted  
 [All dimensions in brackets are millimeters]

- 1a) Rough-in millwork **must be plumb, square** and completed before beginning assembly. Millwork mounting platform must be minimum 19.25" [489] wide by 25.50" [648] deep with a .50" [13] setback, 27.50" [699] deep with 2.50" [64] setback
- 1b) The millwork must be constructed in such a manner as to provide a weight capacity greater than the total assembled weight



MILLWORK SPECS

	NUMBER OF USEABLE RACKSPACES	"A" USEABLE RACK HEIGHT	"B" ROUGH OPENING HEIGHT
AX-SXR-15	15	26-1/4 [667]	33 [838]
AX-SXR-16	16	28 [711]	34-3/4 [883]
AX-SXR-17	17	29-3/4 [756]	36-1/2 [927]
AX-SXR-18	18	31-1/2 [800]	38-1/4 [972]
AX-SXR-19	19	33-1/4 [845]	40 [1016]
AX-SXR-20	20	35 [889]	41-3/4 [1060]
AX-SXR-21	21	36-3/4 [933]	43-1/2 [1105]
AX-SXR-22	22	38-1/2 [978]	45-1/4 [1149]
AX-SXR-23	23	40-1/4 [1022]	47 [1194]
AX-SXR-24	24	42 [1067]	48-3/4 [1238]
AX-SXR-25	25	43-3/4 [1111]	50-1/2 [1283]
AX-SXR-26	26	45-1/2 [1156]	52-1/4 [1327]
AX-SXR-27	27	47-1/4 [1200]	54 [1372]
AX-SXR-28	28	49 [1245]	55-3/4 [1416]
AX-SXR-29	29	50-3/4 [1289]	57-1/2 [1461]
AX-SXR-30	30	52-1/2 [1334]	59-1/4 [1505]
AX-SXR-31	31	54-1/4 [1378]	61 [1549]
AX-SXR-32	32	56 [1422]	62-3/4 [1594]
AX-SXR-33	33	57-3/4 [1467]	64-1/2 [1638]
AX-SXR-34	34	59-1/2 [1511]	66-1/4 [1683]
AX-SXR-35	35	61-1/4 [1556]	68 [1727]
AX-SXR-36	36	63 [1600]	69-3/4 [1772]
AX-SXR-37	37	64-3/4 [1645]	71-1/2 [1816]
AX-SXR-38	38	66-1/2 [1689]	73-1/4 [1861]
AX-SXR-39	39	68-1/4 [1734]	75 [1905]
AX-SXR-40	40	70 [1778]	76-3/4 [1949]
AX-SXR-41	41	71-3/4 [1822]	78-1/2 [1994]
AX-SXR-42	42	73-1/2 [1867]	80-1/4 [2038]
AX-SXR-43	43	75-1/4 [1911]	82 [2083]

NOTE: Total rack height including rough-in pan is the useable rack height ("A") plus 6-1/2"

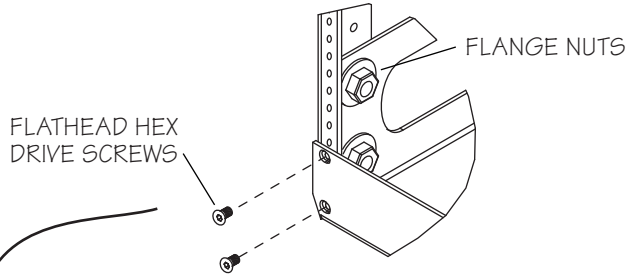
MILLWORK **MUST** REFER TO THESE INSTRUCTIONS!

FIGURE A

Assemble frame and attach base (not an instruction)

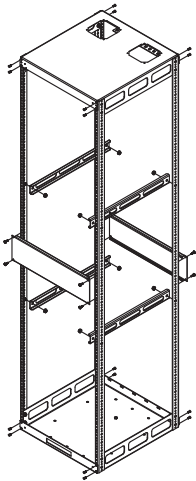
2a) Attach rackrail to top & bottom using flange nuts on pre-installed studs (do not tighten yet). Install and tighten flathead hex drive screws into rackrails (Front & Back) (see figure A)

**NOTE:** Top has fan opening in rear, base has a horizontal slot in front



2b) Install temporary squaring panels, centered vertically on front and rear & tighten using 10-32 Phillips screws. Install support brackets (when included) on preinstalled studs using flange nuts (do not tighten yet) (see figure B) Align edge of lacer bar with outside edge of rackrail and ensure flat side of lacer bar is on top. Install lacer bars using 10-32 Phillips head screws

FIGURE B



**NOTE:** Lacer bars should not be placed in the bottom 8 rackspaces. Use lacer bars as needed - All do not need to be used. For racks 21 spaces and below, 6 lacer bars are provided (3 for the rack and 3 for the rough-in pan). For racks 22 spaces and above 10 lacer bars are provided (5 for the rack and 5 for the rough-in pan)

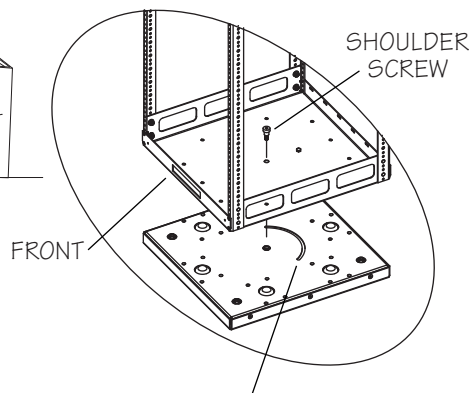
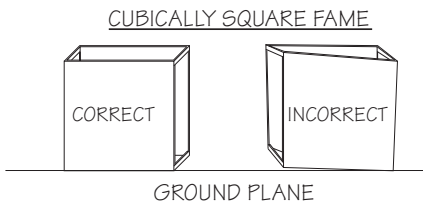
2c) Lay assembly on a flat surface (see figure C). Tighten all flange nuts. Install top trim panel only using 10-32 Phillips screws (top trim panel has only one hole per side) (see figure D). Bottom panel is for locking frame closed. Attach the bottom of the rack to the roller base using the 1/2" shoulder screw provided and tighten (see figure E)

**NOTE:** DO NOT DISCARD BOTTOM TRIM PANEL

FIGURE C

FIGURE E

COMPLETED FRAME



**Note:** Stud on bottom of rack needs to fall into slot on roller base before inserting shoulder screw

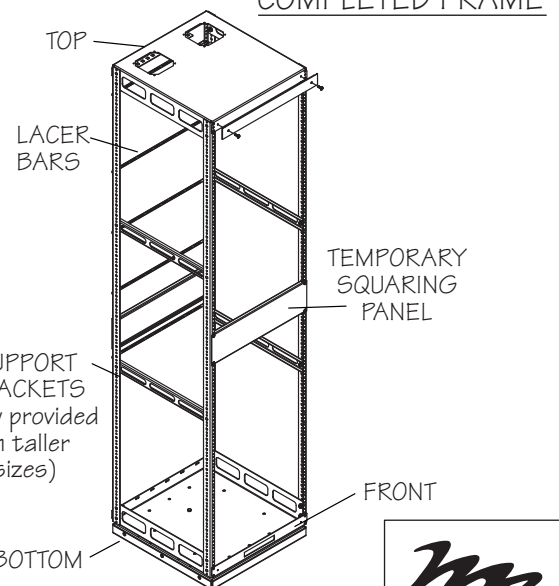
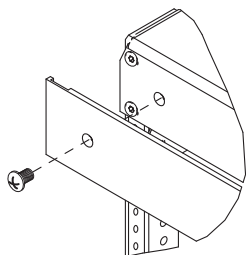


FIGURE D



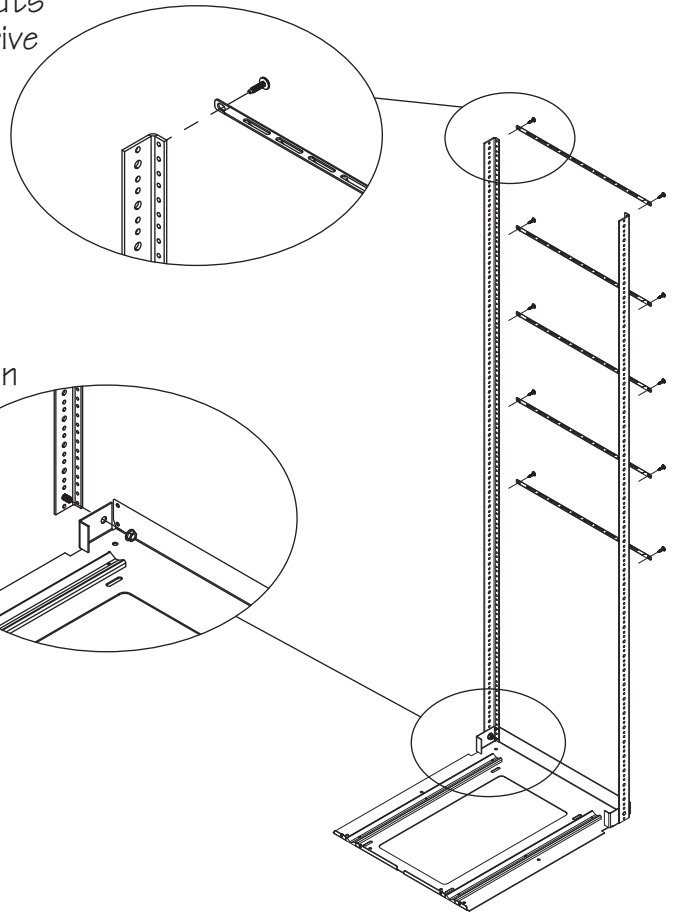
### 3) Assemble rough-in pan and install in millwork opening (not an instruction)

- 3a) Attach rackrail to rough-in pan using flange nuts and flathead hex drive screws (flathead hex drive screws should be installed before tightening flange nuts). Align edge of lacer bar with outside edge of rackrail and ensure flat side of lacer bar is on top. Install lacer bars as shown using 10-32 Phillips head screws

**NOTE:** Lacer bars should not be placed in the bottom 8 rackspaces. Lacer bars on rack should be 2 rackspace above or below corresponding lacer bars on the rough-in pan

**TIP:** When installing lacer bars on rough-in pan, place rack with roller base on rough-in pan and mount equipment in rack and position lacer bars as needed. This will simplify cable management once rough-in pan is mounted into the millwork

- 3b) Place rough-in pan assembly into millwork mounting platform, carefully center, and mount with appropriate customer supplied hardware (Refer to page 2 "MILLWORK SPECS" for specific front setback dimensions)

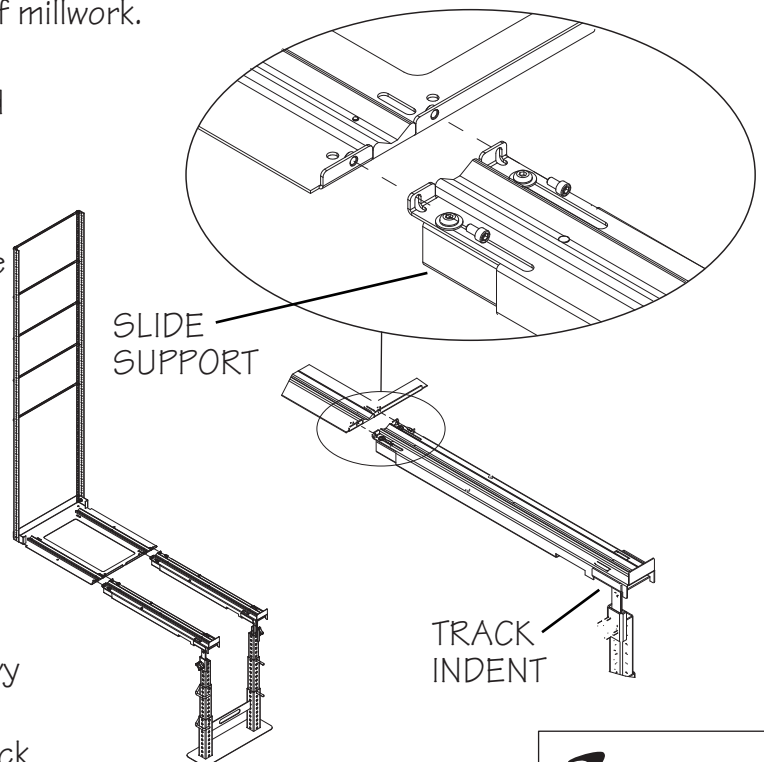


### 4) Install service stand and tracks (not an instruction)

**Note:** Ordered separately based on height of millwork.

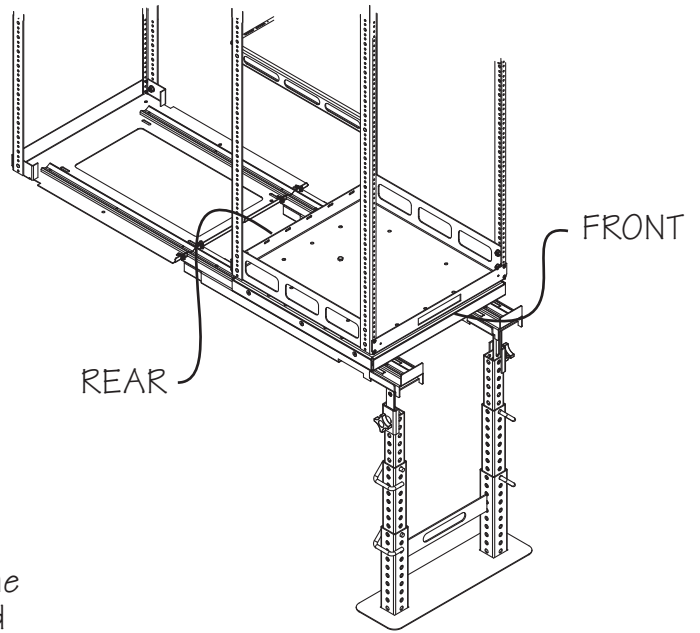
TRACK31 is the **ONLY** track available

- 4a) Select the appropriate height service stand and rough adjust for approximate height
- 4b) Place the front of the service track on the cabinet opening and the rear on the service stand saddle (track indent matches service stand & prevents kick-out)
- 4c) Bolt service track to rough-in pan using the 10-32 hex-drive screws with ball driver provided
- 4d) Fine adjust the service stand with the aid of the level installed in the service track
- 4e) Loosen slide support screws using ball driver provided. Adjust slide support to meet millwork and tighten support screws. This strengthens track when extending heavy equipment for servicing
- 4f) Repeat steps 4b through 4e for second track



5) Install frame on tracks (not an instruction)

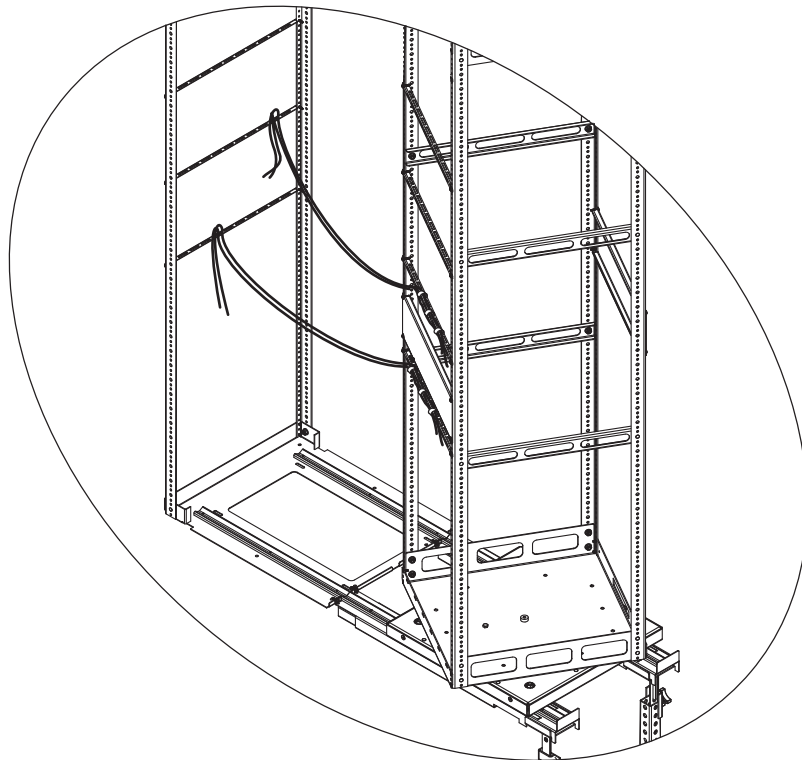
5a) Noting the front and rear, carefully lift the frame and place it on the tracks



6) Cable Management

**Note:** Determine which way rack will rotate before beginning cable management

Select one side of rack for signal cables, and the opposite side for power cables. Extend rack and rotate  $60^{\circ}$  as shown. Lace cables as shown, ensuring cables are taut. This ensures that the service loop will be the correct length and not be pinched when closing the rack



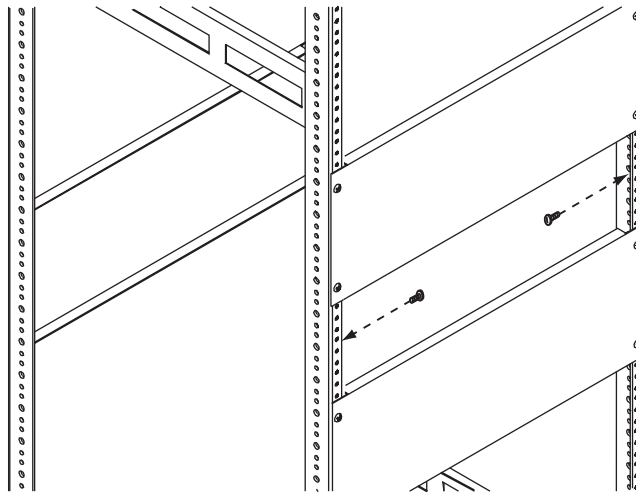
7) Secure rack to millwork position (not an instruction)

7a) After AX-SXR is loaded and wired, roll rack into millwork so that all four ball bearing casters are on rough-in pan and off of service tracks

7b) Remove tracks & service stand

7c) Secure rack to rough-in pan using bottom trim panel and four 10-32 Phillips head screws (supplied in hardware kit)

**HINT:** If during installation loaded rack frame has a tendency to spring outward, it can be secured through the rackrail into the millwork wherever a blank panel is located. Remove blank panel and with rack frame in closed position, install screw through side of front rail, into inside of millwork opening. Secure the frame directly to the millwork on both the right and left sides



EQUIPMENT LOADING AND SQUARING PANELS

Due to the nature of the rackrail in the frame assembly, Middle Atlantic Products suggests that the squaring panels be left in place until some of your components have been mounted to eliminate the possibility of a center bow in the frame and to maintain squareness