GREAT LAKES
DATA RACKS & CABINETS

19" EIA SR and SRD Swing Rack
Installation Instructions
(UL60950-1/UL2416 Equipment Rack)

SR

SRD

GreatCabinets.com
1.866.879.4522

PREFACE

This manual is provided to prevent service personnel from committing an act that results in the risk of fire, electric shock, or injury to persons. Only trained service personnel should receive, unpack, and assemble the Swing Racks. In addition, only trained service personnel should install equipment in enclosures.

SAFETY SYMBOLS USED IN THIS MANUAL

This manual provides general safety guidelines to be observed during installation, operation, and maintenance of the Swing Racks.

WARNING: Failure to follow directions in the warning could result in injury to persons or loss of life.

CAUTION: Failure to follow directions in the caution could result in damage to equipment or storage data.

SAFETY CONSIDERATIONS

WARNING: Improper handling and use of the Swing Racks could result in equipment damage, serious injury, or possible death.

Only UL® Listed ITE (Information Technology Equipment) units should be installed inside the Swing Rack.

Be sure to read and follow all individual manufacturer equipment manuals for safety and installation instructions.

Proper spacing is required when installing electrical equipment to avoid electrical shock. Maintain minimum spacing between the accessories and components and the computer enclosure assembly for safe operation of the equipment when installed in accordance with the National Electric Code ANSI/NFPA 70-1999.

The ambient temperature operating range for the Swing Racks and accessories is +50 to +95°F (+10 to +35°C).

The non-operating temperature is -4 to +140°F (-20 to +60°C)

SERVICE

The SR Swing Rack should be repaired by personnel trained by Great Lakes, or returned to Great Lakes for repair or replacement. Contact Great Lakes Technical Support at 814.734.7303 or at GreatCabinets.com

MOUNTING INSTRUCTIONS

Wood Studded Wall

Once the location on the wall has been determined, inspect the wall surface. The wall must be flat and square in the horizontal and vertical plane to ensure the Swing Rack closes correctly. If the wall is not flat and square, you might be required to use shims.

Wood studded wall mounting instructions apply to a 2" x 4" wood stud wall with 3/4" plywood.

SR recommended Mounting Hardware for Wood Studded Wall

ALL SIZES Qty (4) 3/8 x 2" long Lag Bolts and 1" O.D. Flat Washer

SRD recommended Mounting Hardware for Wood Studded Wall

GL24SRD Qty (4) 3/8 x 2" long Lag Bolts and 1" O.D. Flat Washer
GL36SRD Qty (8) 3/8 x 2" long Lag Bolts and 1" O.D. Flat Washer
GL48SRD Qty (8) 3/8 x 2" long Lag Bolts and 1" O.D. Flat Washer

Masonry Wall Surface

For masonry wall surface, the installer must provide all the appropriate hardware.

INSTALLATION

Loading Equipment

WARNING: Only install equipment after the Swing Rack has been properly secured. Do not move the Swing Rack assembly while loaded.

To maintain uniform distribution of the mechanical load in the Swing Rack, load the heaviest equipment first, at the bottom of the Swing Rack and load the lighter units at the top.

Maximum load capacity is as follows:

PART NO.	H	W	D	RMU	WEIGHT CAP.
GL24SR	24.512"	20.562"	18.00"	12	50
GL36SR	36.763"	20.562"	18.00"	19	50
GL48SR	48.763"	20.562"	18.00"	26	50
GL24SRD	24.12"	20.62"	24.00"	12	100
GL36SRD	36.37"	20.62"	24.00"	19	100
GL48SRD	49.62"	20.62"	24.00"	26	100

SPECIFICATIONS

SR

Certifications: UL Listed 2416 and UL 60950-1
Construction: The **24SR** and **36SR** frames are made of 14 Ga. steel. The **48SR** frame is made of 12 Ga. steel.
Finish: Black Textured Powder Coat
Grounding: Lug and hardware supplied for side brace and swing frame
Rail Type: Tapped #12-24 mounting holes, front and rear
Total Maximum Load Capacity: 50 lbs. for all sizes

PARTS LIST

COMPONENT	QTY.
TOP AND BOTTOM BRACE	2
SWING FRAME ASSEMBLY	1
SIDE BRACE ASSEMBLY	2
REAR BRACE PANEL	1
#10-32 ACORN NUT	4
#10-32 X 1/4 PHIL PAN HD SCREWS, TYPE 23, BLACK	8
1/4-20 X 3/4"L FLAT HEAD SCREW W/ NYLON LOCKING PELLET	2
BLACK NYLON SPACER (0.50 OD, 0.26 ID 0.187 TH)	2
EQUIPMENT MTG. HARDWARE: #12-24 X 1/2" PHIL PAN HD SCREWS, TYPE 23	50

GROUNDING KIT

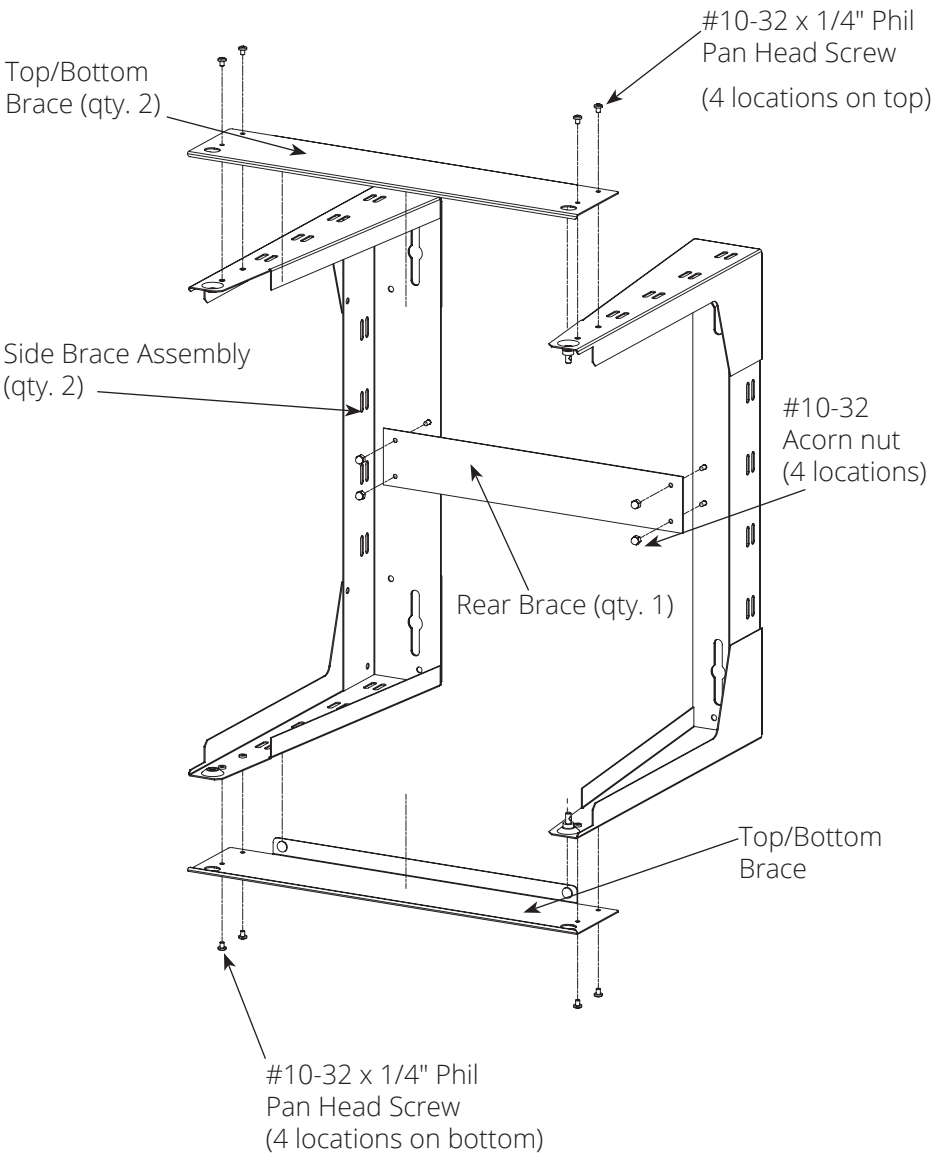
2 BARREL GROUND LUG	1
1/4-20 X 5/8" PHILLIPS HEAD SCREW WITH EXTERNAL TOOTH WASHER	2
1/4-20 KEPS NUT WITH EXTERNAL TOOTH LOCK WASHER	3
JUMPER WIRE	1

TOOLS REQUIRED: 3/8" NUT DRIVER, PHILLIPS HEAD SCREWDRIVER
Special Note: Item #7 used to mount equipment to swing rack.

STEP 1

Place the back brace onto the four threaded studs on the two side brace assemblies. Secure with four #10-32 acorn nuts. Tighten with 3/8" nut driver.

Install the top brace to the outside of the two side brace assemblies with four #10-32 x 1/4" Phillips Pan Head screws, but do not tighten screws; install the bottom brace in the same manner. The large formed edge of the top/bottom braces mount towards the rear and the inside of the swing rack.



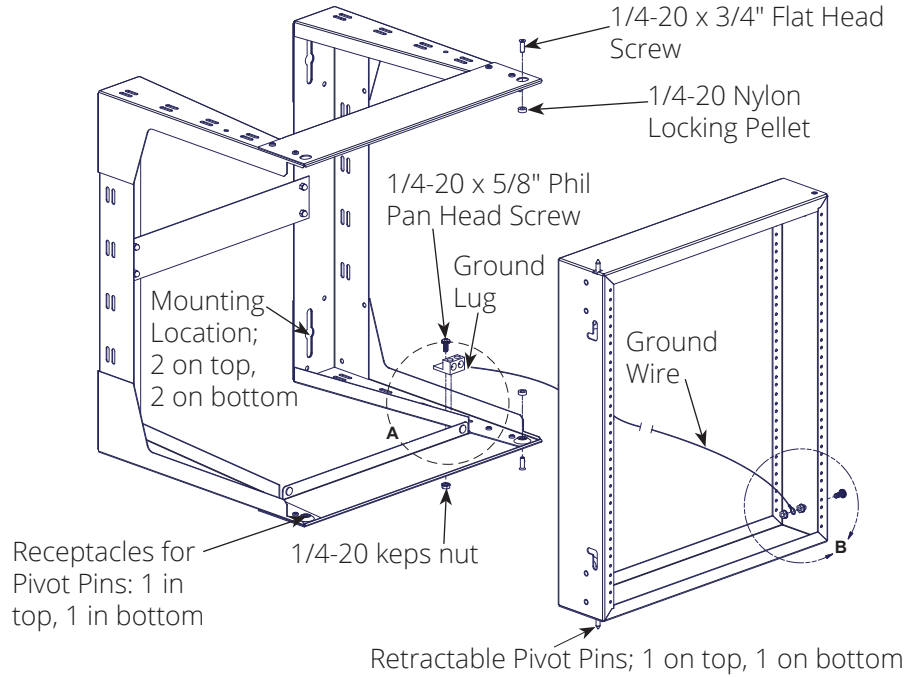
STEP 2

Mount the rear assembly to the wall with four lag screws (not provided). Mounting locations are as shown.

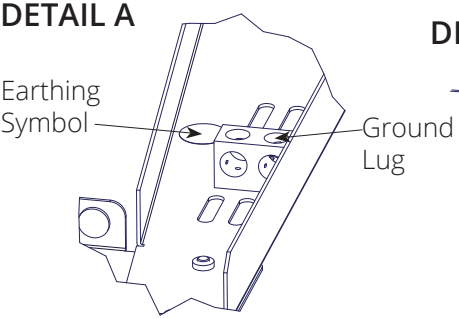
Install the 19" EIA Swing Frame by retracting both pins. The pins can be locked out for ease of assembly by retracting the outside pin into the slot provided. The retractable pins are to be near the front of the Swing Frame when installing.

Release the lower pin then, align the top pin to the top receptacle and release pin. Place 1/4-20 Screw through the hole in bottom (opposite pin hinge). Assemble spacer on exposed threads on inside of swing rack and close swing frame. Tighten screw by screwing into pem nut in Swing Frame. Repeat screw/ spacer assembly for top. Finally, tighten 8 screws on the top and bottom braces.

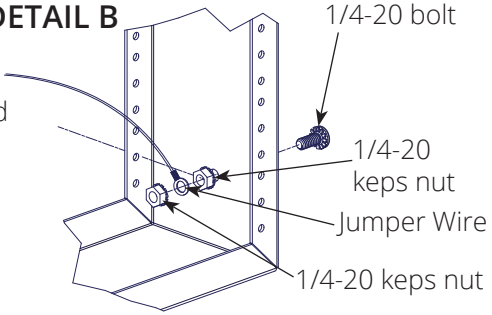
Install ground lug and jumper wire as shown in Detail **A** and **B**.



DETAIL A



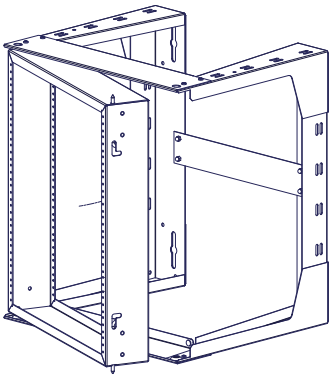
DETAIL B

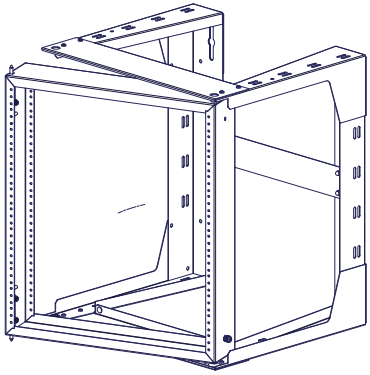


UNIVERSAL

The 19" EIA Swing Frame Rack can be hinged (retractable pin) on either side. Customer needs to determine which side is to open. To open, simply retract both pins (top and bottom) and then open the Swing Frame Rack similar to that of a door.

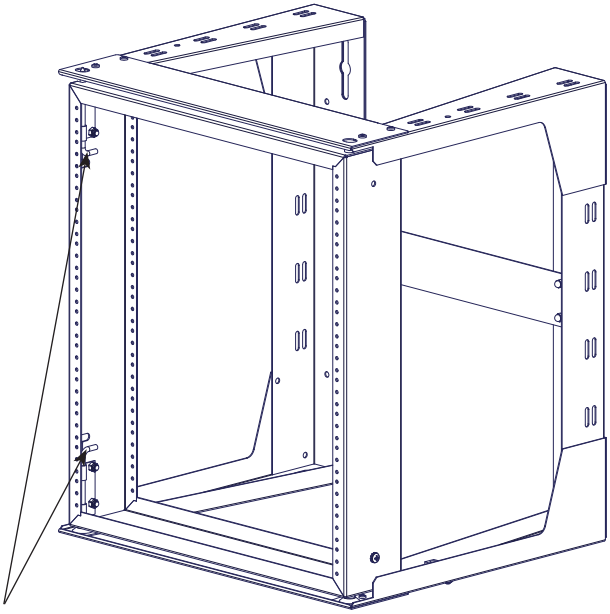
LEFT HAND SWING **OR** **RIGHT HAND SWING**





CAUTION:

When installing 19" EIA equipment, make sure both retractable pins (2) are secured into the rear section that has been mounted to the wall. Be sure all screws, nuts, and mounting hardware are tightened before loading with equipment.



Secure retractable pins into receptacle (2 locations)

SPECIFICATIONS

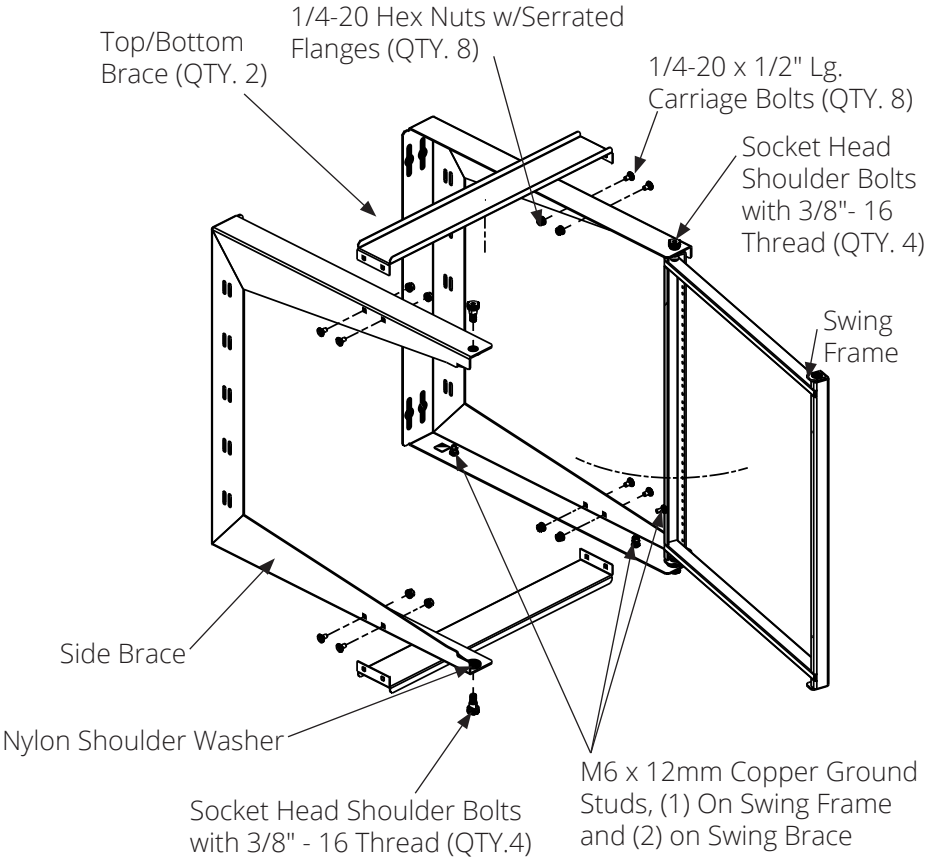
SRD

Certifications: UL Listed 2416 and UL 60950-1
Construction: Body: 12 gauage steel; Rails: 12 gauage steel
Finish: Black Powder Coat
Grounding: Studs located on mounting channel
Rail Type: #10-32 UNF Tapped
Total Maximum Load Capacity: 100 lbs. for all sizes

PARTS LIST

COMPONENT	QTY.
BRACES (TOP & BOTTOM)	2
SIDE BRACE WITH SWING FRAME ATTACHED	1
SIDE BRACE	1
1/4 - 20 X 1/2" CARRIAGE BOLTS	8
1/4 - 20 HEX NUTS WITH SERRATED FLANGE	8
3/8" - 16 SHOULDER BOLTS	2
#10-32 X 1/2" LONG, BLACK SCREWS	50

TOOLS REQUIRED: 7/16" NUT DRIVER, PHILLIPS HEAD SCREWDRIVER

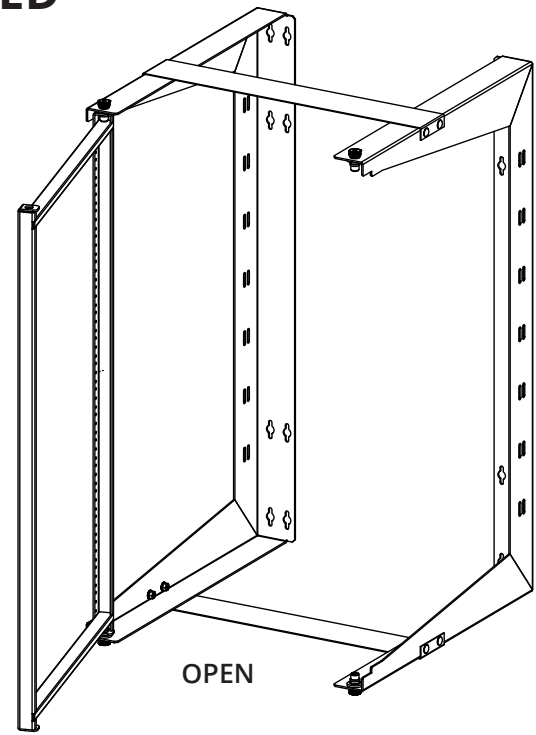


STEP 1
Attach the top and bottom brace to swing rack sides using the 1/4 - 20 x 1/2" carriage bolts and 1/4 - 20 hex nuts.

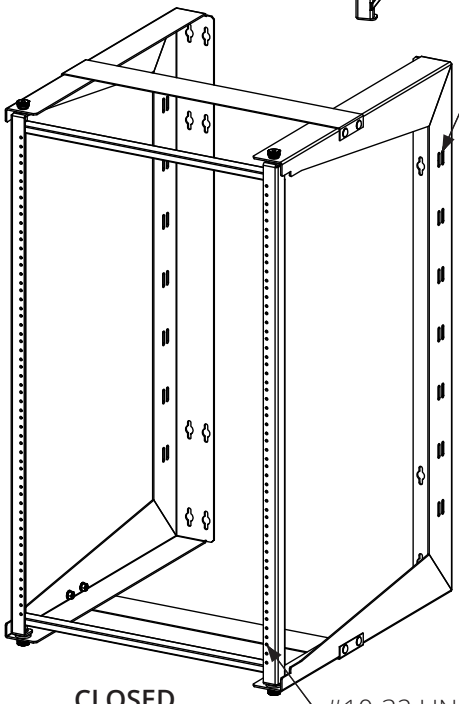
STEP 2
Close swing frame and attach using the shoulder bolts.

STEP 3
Mount the assembly to the wall with four lag screws (these are not provided; The installer is to determine correct hardware for the type of wall). Mounting holes are designed for 3/8" hardwares, 16" on center.

FULLY ASSEMBLED



OPEN



Provisions for optional
(CM-01) Cable Cinch Straps

CLOSED

#10-32 UNF Tapped Holes
for Equipment Mounting

POWER
When using PDUs, each PDU should be connected to a committedbranch circuit that is rated for the continuous load of all the equipment connected. When not using a PDU, each piece of equipment should be connected to a dedicated branch circuit.

PROTECTIVE EARTHING/GROUNDING
A main protective earthing stud is provided.

WARNING: To avoid injury to persons or loss of life, ground each Swing Rack individually to the dedicated branch circuit earthing ground

CONNECTING MAIN PROTECTIVE EARTHING STUD TO THE DEDICATE D BRANCH CIRCUIT EARTHING GROUND CONDUCTOR
Connect the dedicated branch circuit earthing ground conductor to the main protective earthing stud located on the support frame using a listed ring or closed-loop terminal.

When installing a Great Lakes Swing Rack or Wall Mount to materials such as wood, cinder block, concrete, etc., please consider the load capacity within the swing rack or wall mount structure, and be certain to check with local authorities to determine the appropriate hardware requirements for these conditions. Because wall compositions may vary at different installation sites, Great Lakes cannot warrant the fitness or suitability of any installation instructions or installation hardware it may provide for swing rack or wall mount enclosures. Great Lakes hereby **DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE SUFFICIENCY, FITNESS OR SUITABILITY OF ANY INSTALLATION INSTRUCTIONS OR INSTALLATION HARDWARE GREAT LAKES MAY PROVIDE FOR SWING RACKS AND WALL-MOUNTED ENCLOSURES.** Great Lakes recommends that an experienced maintenance and/or technical person be consulted regarding the proper wall-mounting hardware and procedures to be used for the anticipated load capacity of the swing rack or wall mounted enclosure.

Product specifications are subject to change without prior notice.

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