

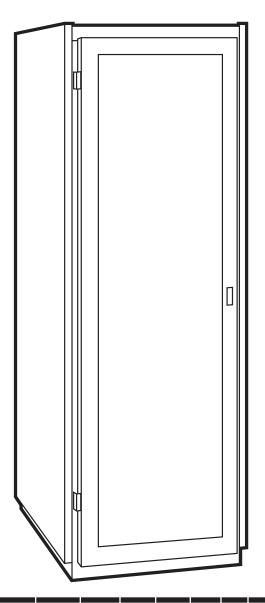
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x			JANUA	RY 2001
RM3010A	RM317	RM327	RM451	RM459
RM3020A	RM320	RM328	RM452	RM460
RM3030A	RM321	RM329	RM453	RM461
RM3040A	RM322	RM339	RM454	RM462
RM313	RM323	RM340	RM455	RM463
RM314	RM324	RM341	RM456	RM464
RM315	RM325	RM342	RM457	RM465
RM316	RM326	RM450	RM458	RM466
				RM467

Comm Cabinets and Accessories



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TRADEMARKS USED IN THIS MANUAL

Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

1. Specifications

Table 1-1. Product Codes and Sizes

Product Code	Size
RM3010A	77"H x 19"W x 30"D (195.6 x 48.3 x 76.2 cm)
RM3020A	77"H x 19"W x 25"D (195.6 x 48.3 x 63.5 cm)
RM3030A	42"H x 19"W x 30"D (106.7 x 48.3 x 76.2 cm)
RM3040A	42"H x 19"W x 25"D (106.7 x 48.3 x 63.5 cm)
RM460	78.63"H x 20.12"W (199.7 x 51.1 cm)
RM461	78.63"H x 20.12"W (199.7 x 51.1 cm)
RM462	43.63"H x 20.12"W (110.8 x 51.1 cm)
RM463	43.63"H x 20.12"W (110.8 x 51.1 cm)
RM453	69.88"H x 20.12"W (177.5 x 51.1 cm)
RM458	34.88"H x 20.12"W (88.6 x 51.1 cm)
RM464	78.63"H x 20.12"W (199.7 x 51.1 cm)
RM465	43.63"H x 20.12"W (110.8 x 51.1 cm)
RM313	2"H x 1"W x 1"D (5.1 x 2.5 x 2.5 cm)
RM314	17.72"W x 24.5"D (45 x 62.2 cm)
RM315	17.72"W x 24.5"D (45 x 62.2 cm)
RM316	17.72"W x 30.5"D (45 x 77.5 cm)
RM317	17.72"W x 30.5"D (45 x 77.5 cm)
RM466	19"W x 1.75"D (48.3 x 4.4 cm)
RM467	19"W x 7"D (48.3 x 17.8 cm)
RM320	5"H x 19"W x 20"D (12.7 x 48.3 x 50.8 cm)
RM321	5"H x 19"W x 20"D (12.7 x 48.3 x 50.8 cm)
RM322	3"H x 2"W x 2"D (7.6 x 5.1 x 5.1 cm)
RM323	3.5" diameter (8.9 cm)
RM324	3.43"H x 15.6"W x 16"D (8.7 x 39.6 x 40.6 cm)
RM325	10.4"H x 15.6"W x 16"D (26.4 x 39.6 x 40.6 cm)
RM326	16.7"W x 18"D (42.4 x 45.7 cm)
RM327	0.5"H x 0.5"W x 0.5"D (1.3 x 1.3 x 1.3 cm)
RM328	1.1"H (2.8 cm)
RM329	1.1"H (2.8 cm)

2. Introduction

The Comm Cabinets (RM3010A, RM3020A, RM3030A, and RM3040A) provide a convenient way to organize your equipment. They feature an enclosed rack on which you can mount your equipment. Plexi and Steel Doors and Solid or Vented Shelves (RM460, RM461, RM462, and RM463, RM453, RM458, RM464, and RM465; RM314, RM315, RM316, and RM317) are available for each cabinet model. Flat filler panels (RM466 and RM467) fill empty space in enclosed racks. Leg Levelers or Casters (RM322 or RM323) either balance your cabinet or make it mobile. A Shelf (RM326) and Drawers (RM324 and RM325) provide easy access to equipment in the Cabinet.

2.1 Available Models

Table 2-1 lists the Comm Cabinets and accessories by product code and name.

Product Code	Product Name
RM3010A	Comm Cabinet 7730 (83" x 33")
RM3020A	Comm Cabinet 7725 (83" x 27")
RM3030A	Comm Cabinet 4230 (48" x 33")
RM3040A	Comm Cabinet 4225 (48" x 27")
RM460	Plexi Door 77" Locking
RM461	Plexi Door 77" Non-Locking
RM462	Plexi Door 42" Locking
RM463	Plexi Door 42" Non-Locking
RM453	Short Steel Door-77"
RM458	Short Steel Door—42"
RM464	Standard Steel Door-77"
RM465	Standard Steel Door-42"
RM313	Lock—Steel Door Only
RM314	Shelf—25" Solid
RM315	Shelf—25" Vented
RM316	Shelf—30" Solid
RM317	Shelf—30" Vented
RM466	Flat Filler Panel 1.75"
RM467	Flat Filler Panel 7"
RM320	630-CFM Fan/Panel Assembly 25"
RM321	630-CFM Fan/Panel Assembly 30"
RM322	Leg Levelers—Qty. 4
RM323	Casters—Qty. 4
RM324	Drawer—3.5" with Lid
RM325	Drawer—10" Open
RM326	Shelf—18" Sliding
RM327	Cage Nuts—Qty. 20
RM328	Cup-Head Screws—Qty. 20
RM329	Multi-Bay Joining Kit

Table 2-1. Available Models

Table 2-1 (continued). Available Models

Product Code	Product Name
RM450	Louvered Top/Open Bottom for RM3010A and RM3030A
RM454	Louvered Top/Open Bottom for RM3020A and RM3040A
RM339	Adjustment Rails for RM3010A and RM3020A
RM340	Adjustment Rails for RM3030A and RM3040A
RM341	Horizontal Mounting Rails for RM3010A and RM3030A
RM342	Horizontal Mounting Rails for RM3020A and RM3040A
RM451	77" Corner Post Pack for RM3010A and RM3020A
RM456	42" Corner Post Pack for RM3030A and RM3040A
RM452	Side Panel Pack for RM3010A
RM455	Side Panel Pack for RM3020A
RM457	Side Panel Pack for RM3030A
RM459	Side Panel Pack for RM3040A

2.2 Kits

When you order the RM3010A, RM3020A, RM3030A, or RM3040A, the following items are included:

2.2.1 WHAT'S INCLUDED WITH THE RM3010A

- RM339 (Adjustment Rails for RM3010A and RM3020A)
- RM341 (Horizontal Mounting Rail for RM3010A and RM3030A)
- RM450 (Louvered Top/Open Bottom for RM3010A and RM3030A)
- RM451 (77" Corner Post Pack for RM3010A and RM3020A)
- RM452 (Side Panel Pack for RM3010A)
- RM453 (Short Steel Door—77")
- RM323 (Casters)

2.2.2 WHAT'S INCLUDED WITH THE RM3020A

- RM339 (Adjustment Rails for RM3010A and RM3020A)
- RM342 (Horizontal Mounting Rail for RM3020A and RM3040A)
- RM451 (77" Corner Post Pack for RM3010A and RM3020A)
- RM454 (Louvered Top/Open Bottom for RM3020A and RM3040A)
- RM455 (Side Panel Pack for RM3020A)
- RM453 (Short Steel Door—77")
- RM323 (Casters)

2.2.3 WHAT'S INCLUDED WITH THE RM3030A

- RM340 (Adjustment Rails for RM3030A and RM3040A)
- RM341 (Horizontal Mounting Rail for RM3010A and RM3030A)
- RM456 (77" Corner Post Pack for RM3030A and RM3040A)
- RM450 (Louvered Top/Open Bottom for RM3010A and RM3030A)
- RM457 (Side Panel Pack for RM3030A)
- RM458 (Short Steel Door—77")
- RM323 (Casters)

2.2.4 WHAT'S INCLUDED WITH THE RM3040A

- RM340 (Adjustment Rails for RM3030A and RM3040A)
- RM342 (Horizontal Mounting Rail for RM3020A and RM3040A)
- RM456 (77" Corner Post Pack for RM3030A and RM3040A)
- RM454 (Louvered Top/Open Bottom for RM3020A and RM3040A)
- RM459 (Side Panel Pack for RM3040A)
- RM458 (Short Steel Door—77")
- RM323 (Casters)

2.3 Description

This section describes the products listed in Table 2-1.

- RM3010A: This Comm Cabinet has 77" of mounting room and is 30" deep for extra rear clearance. It is a modular knock-down cabinet that is easy to assemble and extremely sturdy. The Cabinet features a handsome black textured finish. Levelers and casters are included in the base package. Front-mounting rails are pre-drilled and tapped for easy mounting of equipment 10/32 per EIA/TIA standards.
- RM3020A: This Comm Cabinet provides 77" of mounting room and is 25" deep for extra rear clearance. It is a modular knock-down cabinet that is easy to assemble and extremely sturdy. The Cabinet features a handsome black textured finish. Levelers and casters are included in the base package. Front-mounting rails are pre-drilled and tapped for easy mounting of equipment 10/32 per EIA/TIA standards.
- RM3030A: This Comm Cabinet provides 42" of mounting room and is 30" deep for extra rear clearance. It is a modular knock-down cabinet that is easy to assemble and extremely sturdy. It features a handsome black textured finish. Levelers and casters are included in the base package. Front-mounting rails are pre-drilled and tapped for easy mounting of equipment 10/32 per EIA/TIA standards.
- RM3040A: This Comm Cabinet provides 42" of mounting room and is 25" deep for standard rear clearance. It is a modular knock-down cabinet that is easy to assemble and extremely sturdy. It features a handsome black textured finish. Levelers and casters are included in the base package. Front-mounting rails are pre-drilled and tapped for easy mounting of equipment 10/32 per EIA/TIA standards.
- RM460: This 77" smoked Plexiglas® door works with racks RM3010A and RM3020A. It includes a lock.
- RM461: This 77" smoked Plexiglas door works with racks RM3010A and RM3020A.
- RM462: This 42" smoked Plexiglas door works with racks RM3030A and RM3040A. It includes a lock.
- RM463: This 42" smoked Plexiglas door works with racks RM3030A and RM3040A.
- RM453: This back door works with tall cabinets. This is for replacement purposes, since this part is included will the base cabinet assembly. A lower panel allows access for cabling without blocking the door.
- RM458: This back door works with short cabinets. This is for replacement purposes, since this part is included with the base cabinet assembly. A lower panel allows access for cabling without blocking the door.
- RM464: This is a steel door for tall cabinets. You can use it as a front door.
- RM465: This is a steel door for short cabinets. You can use it as a front door.
- RM313: This lock assembly is for steel doors only. It works with all steel-door models.
- RM314: This solid shelf works with cabinets RM3020A and RM3040A. It is rated at 200 lb. and has a 1" x 6" cable opening in the rear.
- RM315: This vented steel shelf works with cabinets RM3020A and RM3040As. It is rated at 200 lb. and has a 1" x 6" cable opening in the rear.
- RM316: This solid steel shelf works with cabinets RM3010A and RM3030A. It is rated at 200 lb. and has a 1" x 6" cable opening in the rear.
- RM317: This vented steel shelf works with cabinets RM3010A and RM3030A. It is rated at 200 lb. and has a 1" x 6" cable opening in the rear.

- RM466: This steel panel (1 rack unit high) fills gaps in cabinets and racks that occur when devices are mounted on face rails.
- RM467: This steel panel (4 rack units high) fills gaps in cabinets and racks that occur when devices are mounted on face rails.
- RM320: Use this Fan Tray with cabinet numbers RM3020A and RM3040A. It saves valuable vertical mounting space by mounting to the top of the cabinet. The fan assembly exhausts air through the top of the cabinet and consists of a 630-CFM fan, finger guards, cord, and plug.
- RM321: Use this Fan Tray with cabinet numbers RM3010A and RM3030A. It saves valuable vertical mounting space by mounting on the top of the cabinet. The fan assembly exhausts air through the top of the cabinet and consists of a 630-CFM fan, finger guards, cord, and plug.
- RM322: These leg levelers are standard on all base cabinet models. They are offered as replacement units. The levelers are made of nickel-plated steel, are threaded, and stand 3" tall.
- RM323: These casters are included as standard equipment on all cabinets. They are offered as replacement units. The casters are hard rubber wheels. Each caster can support 200 lb.
- RM324: This 3.5" high, 15.6" wide sliding drawer has a hinged lid writing surface. It is rated for 200-lb. capacity.
- RM325: This 10" high, 15.6" wide sliding drawer has an open top. It is rated for 200-lb. capacity.
- RM326: This sliding equipment or writing shelf is rated for 85-lb. capacity. It is 16.75" wide by 18" deep. The slides have a lock-out feature for stability.
- RM327: Use these 10/32 thread clip nuts for heavy-duty applications, with 0.281" EIA holes on corner cabinet.
- RM328: These are 10/32 threaded cup-head screws with a black anodized finish. They are 1.125" long, and include a nylon washer.
- RM329: Use this Kit to join cabinets together to form 2, 3, 4, etc. bay units.

2.4 Products that Work Together

Table 2-2 on the next page summarizes the products that work together.

Accessories	Comm Cabinet RM3010A	RM3020A	RM3030A	RM3040A
Plexi Door—Locking	RM460	RM460	RM462	RM462
Plexi Door	RM461	RM461	RM463	RM463
Short Steel Door—Vented	RM453	RM453	RM458	RM458
Standard Steel Door—Vented	RM464	RM464	RM465	RM465
Lock—Steel Door Only	RM313	RM313	RM313	RM313
Flat Filler Panel 1.75"	RM466	RM466	RM466	RM466
Flat Filler Panel 7"	RM467	RM467	RM467	RM467
630-CFM Fan/Panel Assy.	RM321	RM320	RM321	RM320
Leg Levelers-Qty. 4	RM322	RM322	RM322	RM322
Casters—Qty. 4	RM323	RM323	RM323	RM323
Shelf—Solid	RM316	RM314	RM316	RM314
Shelf—Vented	RM317	RM315	RM317	RM315
Drawer—3.5" with Lid	RM324	RM324	RM324	RM324
Drawer—10" Open	RM325	RM325	RM325	RM325
Shelf—18" Sliding	RM326	RM326	RM326	RM326
Cage Nuts-Qty. 20	RM327	RM327	RM327	RM327
Cup-Head Screws—Qty. 20	RM328	RM328	RM328	RM328
Multi-Bay Joining Kit	RM329	RM329	RM329	RM329
19" Rack Power Strip	PS186A	PS186A	PS186A	PS186A
19" Rack Surge Power Strip	SP187A	SP187A	SP187A	SP187A
77" Rack Power Strip	PS187A	PS187A		

Table 2-2. Products that Work Together

3. Assembly Instructions

This chapter provides step-by-step instructions for assembling your Comm Cabinet and related components.

3.1 Comm Cabinets (RM3010A, RM3020A, RM3030A, RM3040A)

3.1.1 PARTS LIST

Before you begin, open the packages and make sure you have all of the following parts.

- 1. (1) Top
- 2. (1) Bottom
- 3. (4) Corner Posts
- 4. (2) Side Panels
- 5. (1) Rear Door
- 6. (1) Top Access Panel
- 7. (1) Rear Access Panel
- 8. (8) ³/₁₆-16 x 1¹/₄" Carriage Bolts
- 9. (8) 3/8" Lock Washers
- 10. (8) ³/₈" Flat Washers
- 11. (8) %"-16 Hex-Head Nuts
- 12. (2) Hinges
- 13. (6) 10-32 x ³/₈" Round-Head Screws
- 14. (4) #10 Lock Washers
- 15. (18) 10-32 x ⁵/₈" Cup-Head Screws
- 16. (8) 10-32 x 1^{$\frac{1}{8}$} Cup-Head Screws
- 17. (8) Clip Nuts
- 18. (1) Gasket Kit
- 19. (1) Door Latch
- 20. (2) 10-32 Hex Nut w/Washer
- 21. (4) 10-32 x ¼" Round-Head Screws
- 22. (4) Horizontal Mounting Rail
- 23. (2) Adjustable Vertical Mounting Rail
- 24. (4) Casters

3.1.2 TOOLS REQUIRED

You need the following tools to assemble your unit.

- ¾" Open-End Wrench or Socket
- [%]/₁₆" Open-End Wrench or Socket
- Phillips Screwdriver

3.1.3 Assembling the Comm Cabinet

Follow the steps listed below to assemble your Comm Cabinet. Figures 3-1 through 3-3 illustrate the procedure.

STEP 1: Attach the four corner posts to the cabinet top and bottom. Use the items listed below.

- 1. (1) Top
- 2. (1) Bottom
- 3. (4) Corner Posts
- 8. (8) ³/₁₆ x 1¹/₄" Carriage Bolts
- 9. (8) ³/₈" Lock Washers
- 10. (8) ³/₈" Flat Washers
- 11. (8) 3/4-16 Hex-Head Nuts
- A. Lay the cabinet top and bottom on the front edge and position two corner posts to align with the holes and slots in the front corners. Install the carriage bolts with flat washers, lock washers, and hex nuts. Tighten.
- B. Turn the assembly over and repeat STEP 1A for the two rear corner posts
- C. Install the optional leg levelers and casters.
- D. Lift the frame assembly to an upright position.

STEP 2: Assemble the rear door and attach it to the corner post. Use the items listed below.

- 5. (1) Rear Door
- 7. (1) Rear Access Panel
- 12. (2) Hinges
- 13. (6) 10-32 x ³/₆" Round-Head Screws
- 14. (4) #10 Lock Washers
- 16. (4) 10-32 x 1¹/₈" Cup-Head Screws
- 17. (4) Clip Nuts
- 18. (1) Gasket Kit

19. (1) Door Latch

- 20. (2) 10-32 Hex Nuts w/Washer
- 21. (4) 10-32 x $\frac{1}{4}$ Round-Head Screws
- A. Use the 2 round-head screws (item #21) and lock washers to attach the female portion of both hinges to the rear door. The hinge cavity should face the bottom of the door.
- B. Attach the adhesive-backed foam gasket to the inside edges of the door.

NOTE

Before removing the backing, measure the foam gasket on the door, then cut it to the desired length with scissors.

- C. Install the door latch to the door with 2 round-head screws (item #13) and hex nuts w/washers (item #20).
- D. Install the male portion of the hinges in the left rear corner post using 2 round-head screws (item #13) each. The hinge pin must face the cabinet top.
- E. Slide 4 clip nuts over the appropriate holes on the rear corner post mounting flanges to line up with the holes on the rear access panel. Position the rear access panel and attach it with 4 cup-head screws (10-32 x $1\frac{1}{8}$ ").
- F. You may install the door now, or after you install side panels, accessories, and electronic equipment. To install the door, simply align its hinges with the hinges on the rear corner post. Adjust the door tension by rotating an allen wrench (included) clockwise until the latch pawl engages the slot in the rear corner post.

STEP 3: Install the top access panel. Use the items listed below.

- 6. (1) Top Access Panel
- 16. (4) Cup-Head Screws 10-32 x 1¹/₈"
- 17. (4) Clip Nuts
- A. Slide the clip nuts over the 4 holes in the flange of the cabinet top.
- B. Place the top access panel in the top flange and secure it with 4 cup-head screws.

STEP 4: Install the side panels. Use the items listed below.

- 4. (2) Side Panels
- 15. (16) 10-32 x ⁵/₈" Cup-Head Screws
- A. Begin to thread the cup-head screws into 6 holes on the vertical edges of both side panels. Leave at least ¼" clearance between the screw heads and the side panel. Do not install the screws in 2 holes in the top edge of the side panels.
- B. Carefully align the screw heads with the 3 keyholes on the sides of each corner post. Hang the side panels without tightening the screws.
- C. If the side panels are to be secured, install the cup-head screws in the top 2 holes of both side panels. Tighten.

NOTE

If you want to remove the side panels, skip steps 4C and 4D.

D. Tighten all cup-head screws on both side panels.

STEP 5: Prepare the horizontal mounting rails for installation.

- A. Remove the hex bolts from the spring-loaded tapped nuts.
- B. Place the tapped nut in the channel of the mounting rail, compress the spring, and rotate it to engage it in the channel.
- C. Slide the tapped nut to the end of the mounting rail.
- D. Repeat steps 5B and C for the second tapped nut. Slide to the opposite end of the rail.

STEP 6: Install one mounting rail.

- A. Place the mounting rail behind the mounting flanges at the side of the cabinet corner posts.
- B. Adjust to the horizontal position at the desired height and insert the hex head bolt through the corner post flange and into the tapped nut.
- C. Repeat step 6B for the hole at the opposite end of the mounting rail.

STEP 7: Install the other mounting rails.

A. Repeat steps 6 and 7 for the other corner mounting rails.

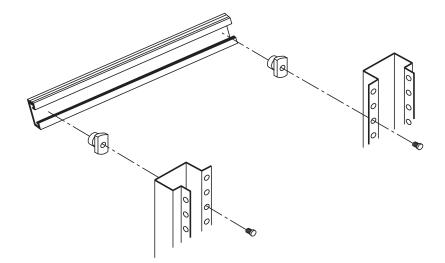


Figure 3-1. Assembling the Horizontal Mounting Rails.

STEP 8: Prepare the Vertical Tapped Mounting Rails for installation.

- A. Remove the hex-head bolts from the spring-loaded Unistrut nuts.
- B. Place the Unistrut nut in the channel of the Unistrut mounting rail, compress the spring, and rotate it to engage it in the channel.
- C. Slide the Unistrut nut to the desired location on the Unistrut mounting rail.
- D. Repeat steps 8B and C for other Unistrut mounting rails.

STEP 9: Install one adjustable tapped mounting rail.

- A. Position the adjustable tapped rail so that the obround holes align with the threaded holes in the springloaded Unistrut nuts positioned in the Unistrut mounting rails.
- B. Insert the hex-head bolt through the obround hole and into the Unistrut nut. Do not tighten.
- C. Repeat step 9B for the hole at the opposite end of the adjustable tapped mounting rail.

STEP 10: Install the other adjustable tapped mounting rail.

- A. Repeat steps 8 and 9 for the other adjustable tapped mounting rail.
- B. Properly position all 90-degree rails for equipment installation and tighten all hex-head bolts.

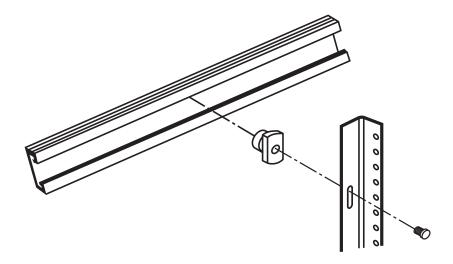


Figure 3-2. Assembling the Vertical Tapped Mounting Rails.

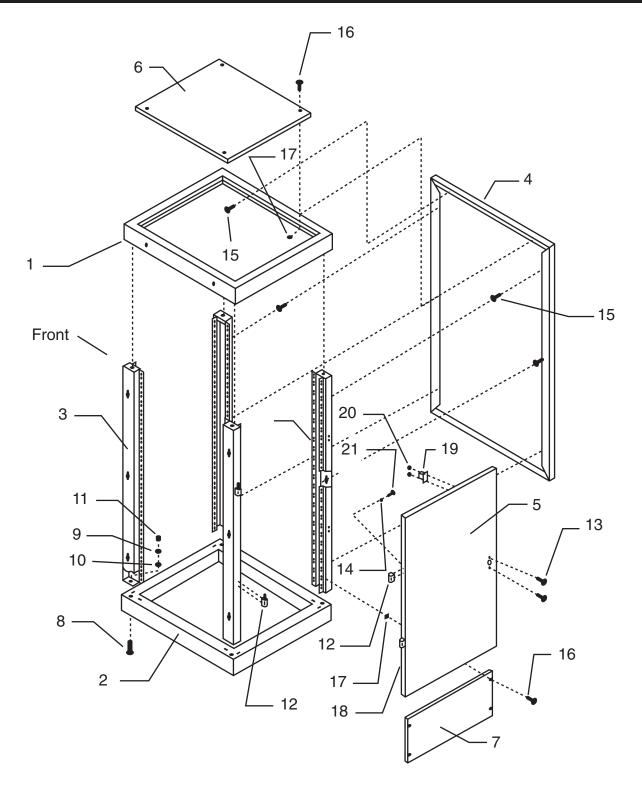


Figure 3-3. Assembling the Comm Cabinet.

3.2 Plexi Doors (RM460, RM461, RM462, RM463)

3.2.1 PARTS LIST

Before you begin, open the package and check to make sure you have all of the following parts.

- 1. (1) Plexi Door
- 2. (1) Lock
- 3. (2) Hinge-female
- 4. (1) Adhesive-backed foam gasket
- 5,. (2) Hinge-male
- 6. (6) 10-32 x 3/8" Round-Head Screws
- 7. (4) 10-32 x $\frac{1}{4}$ " Round-Head Screws

3.2.2 TOOLS REQUIRED

You need the following tools to assemble your unit.

- Phillips screwdriver
- Scissors

3.2.3 Assembling the Plexi Door

Follow these steps to assemble your Plexi Door.

STEP 1: Attach the hinges to the door. You will need to use the items listed below.

- 1. (1) Door
- 2. (2) Hinge—female

STEP 2: Attach the lock to the door. You will need the following items.

2. (1) Lock

STEP 3: Apply foam tape to the door. Use the following items.

- 1. (1) Door
- 4. A/R Foam Tape
- A. Cut the foam tape as required.
- B. Apply the foam tape.

STEP 4: Install the hinges to the corner post. Use the following items.

- 5. (2) Hinge-male
- 6. (4) 10-32 x ³/₆" Round-Head Screws

- A. Use the holes from the left front corner post.
- B. Attach the hinges to the corner post using item 6 as shown in Figure 3-4.

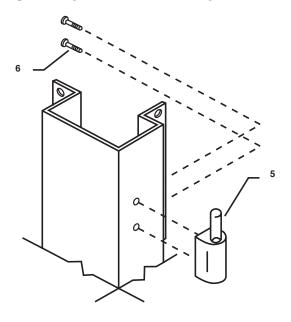


Figure 3-4. Installing Hinges on the Corner Post.

STEP 5: Attach the door to the cabinet.

- A. Hinge the door by aligning the hinges on the cabinet and the door.
- B. Remove the protective paper backing from the Plexiglas door.

3.3 Short Steel Doors (RM453, RM458)

3.3.1 PARTS LIST

Make sure you have the following items before assembling your short steel door.

- 1. (1) Door
- 2. (1) Rear Access Panel
- 3. (2) Hinge-male
- 4. (2) Hinge-female
- 5. (4) 10-32 x ¼" Round-Head Screws
- 6. (4) #10 Lock Washers
- 7. (4) 10-32 x 1¹/₈" Cup-Head Screws
- 8. (4) Clip Nuts
- 9. (1) Gasket Kit

- 10. (1) Door Latch
- 11. (2) 10-32 Hex Nuts w/Washer
- 12. (6) 10-32 x ³/₈" Machine Screws

3.3.2 TOOLS REQUIRED

You will need the tools listed below to assemble your steel door.

- Phillips screwdriver
- Scissors

3.3.3 Assembling the Steel Door

Follow these steps.

STEP 1: Prepare the door for attaching to the Comm Cabinet.

- A. Use two round-head screws and lock washers to attach the female portion of the hinges to the door. The hinge cavity should face the bottom of the door. Use 10-32 x ¹/₄" screws.
- B. Attach the adhesive-backed foam gasket to the inside edges of the door.

NOTE

Before removing the backing, measure the foam tape on the door and cut to the proper length with the scissors.

C. Install the door latch to the door with 2 machine screws and 2 hex nuts w/washers.

STEP 2: Prepare the cabinet for installing the door.

NOTE

The steel door mounts to the front or rear *left* corner post only.

- A. Install the male portion of the hinges in the left rear corner post using 2 round-head screws each. The hinge pin must face the cabinet top. Use 10-32 x %" round-head screws.
- B. Slide 4 clip nuts over the appropriate holes on the rear corner-post mounting flanges to align with the holes on the rear access panel. Position the rear access panel and attach it with 4 cup-head screws.

STEP 3: Install the door.

- A. To install the door, align the hinges on the rear door with the hinge pins on the corner post.
- B. Attach the door latch tension by rotating the allen wrench (included) clockwise until the latch pawl engages the slot in the rear corner post. Tighten to the desired tension.

Figure 3-5 illustrates the installation.

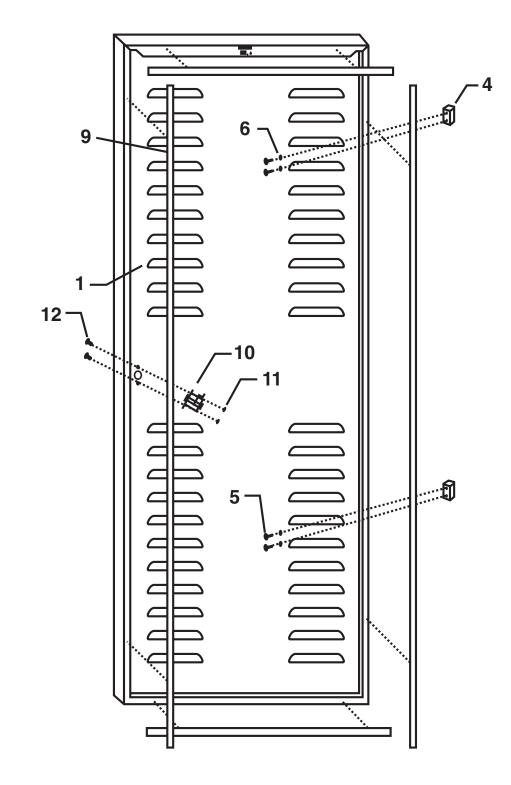


Figure 3-5. Installing the Short Steel Door.

3.4 Standard Steel Doors (RM464, RM465)

3.4.1 PARTS LIST

- 1. (1) Steel Door
- 2. (2) Hinge-male
- 3. (2) Hinge—female
- 4. (4) 10-32 x $\frac{1}{4}$ " Round-Head Screws
- 5. (4) #10 Lock Washers
- 6. (1) Gasket Kit
- 7. (1) Door Latch
- 8. (2) 10-32 Hex Nuts with Washer
- 9. (6) 10-32 x ³/₈" Machine Screws

3.4.2 TOOLS REQUIRED

You need the following tools to assemble the door.

- Phillips screwdriver
- Scissors

3.4.3 Assembling the Standard Steel Door

STEP 1: Prepare the door for attaching the Comm Cabinet.

- A. Use 2 round-head screws and lock washers to attach the female portion of the hinges to the steel door. The hinge cavity should face the bottom of the door. Use 10-32 x ¹/₄" screws.
- B. Attach the adhesive-backed foam gasket to the inside edges of the door.

NOTE

Before removing the backing, measure the foam tape on the door and cut to the desired length with scissors.

C. Install the door latch to the door with 2 machine screws and 2 hex nuts w/washers.

STEP 2: Prepare the cabinet for installing the door.

NOTE

The steel door mounts to the front or rear left corner post only.

A. Install the male portion of the hinges in the left front or rear corner post using 2 round-head screws each. The hinge pin must face the cabinet top. Use 10-32 x ³/₈" screws.

STEP 3: Install the steel door.

- A. To install the door, align the hinges on the steel door with the hinge pins on the corner post.
- B. Adjust the door latch tension by rotating the allen wrench (included) clockwise until the latch pawl engages the slot in the cabinet corner post. Tighten to the desired tension.

Figure 3-6 illustrates the installation.

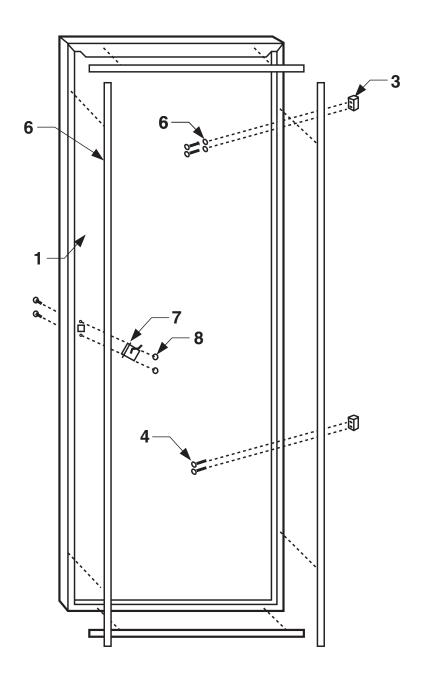


Figure 3-6. Installing the Standard Steel Door.

3.5 Lock—Steel Door Only (RM313)

3.5.1 PARTS LIST

Before you begin, open the package and check to make sure you have all of the following parts.

- 1. (1) Latch Mechanism
- 2. (1) Key Lock Head
- 3. (2) 10-24 Round Head Screws

3.5.2 TOOLS REQUIRED

You need the following tool to assemble the door.

• Phillips screwdriver

3.5.3 Assembling the Standard Steel Door

Follow these steps.

A. Position the latch mechanism and the lock head with the holes in the door.

NOTE

The latch pawl must rotate to engage the corner post slot.

- B. Insert 2 round-head screws through the latch mechanism and the door and into the key lock head. Tighten.
- C. Adjust the door latch tension by rotating the key (included) clockwise until the latch pawl engages the slow in the cabinet corner post. Tighten to the desired tension.

Figure 3-7 illustrates the installation.

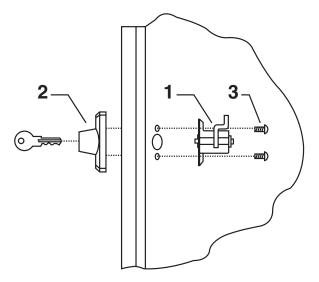


Figure 3-7. Installing the Lock—Steel Door Only.

3.6 Shelves, Solid and Vented (RM314, RM315, RM316, RM317)

3.6.1 PARTS LIST

Before you begin, make sure you have all of the following parts.

- 1. (1) Equipment Shelf
- 2. (4) #10-32 x ⁵/₈" Cup-Head Screws
- 3. (4) #10-32 Cage Nuts

3.6.2 TOOLS REQUIRED

You need the following tool to assemble the shelf.

• Phillips screwdriver

3.6.3 Assembling the Shelf

Follow these steps.

STEP 1: Install the cage nuts in the corner posts.

A. Select the desired mounting location for the equipment shelf. Mark the appropriate mounting holes in all four cabinet corner posts. Slide the cage nuts over the marked holes with a nut on the inside of each corner post.

STEP 2: Install the shelf in the cabinet.

- A. Carefully position the equipment shelf so that the round cable opening is toward the rear of the cabinet.
- B. Attach the shelf to the corner posts by inserting the cup-head screws through mounting flanges in the front and rear of the shelf and cage nuts installed in the cabinet corner posts.
- C. Tighten the screws to secure the shelf.

Figure 3-8 illustrates the installation.

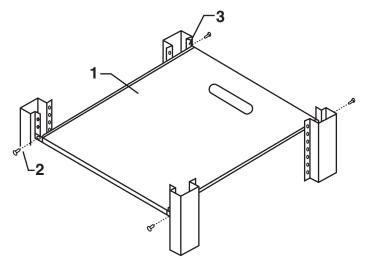


Figure 3-8. Installing the Solid or Vented Shelf.

3.7 Filler Panels (RM466, RM467)

3.7.1 PARTS LIST

Before you begin, make sure your package contains the following parts.

- 1. (4) Clip Nuts
- 2. (4) 10-32 x ⁵/₈" Cup-Head Screws (Use with Flat Panels)
- 3. (1) Filler Panel

3.7.2 TOOLS REQUIRED

You will need the following tool to assemble your filler panel.

• Phillips screwdriver

3.7.3 Assembling the Filler Panels

Follow these steps to assemble your panel.

STEP 1: Determine the position of the filler panel.

STEP 2: Install the clip nuts on the corner posts so they align with the corner-post holes.

STEP 3: Align the panel, start the screws in the clip nuts, and tighten the screws.

3.8 630-CFM Fans (RM320, RM321)

3.8.1 PARTS LIST

Make sure you have the following parts before you assemble the Fan.

1. (1) Top Filler Panel with Fan

- 2. (4) 10-32 x 1¹/₁₈" Cup-Head Screws
- 3. (4) 10-32 Clip Nuts

3.8.2 TOOLS REQUIRED

You need the following tool to assemble your Fan.

• Phillips screwdriver

3.8.3 Assembling the Fan

Follow these instructions to install the fan assembly.

- A. Slide the clip nuts over the 4 mounting holes in the flange of the cabinet top.
- B. Place the top access panel in the top flanges and secure it with 4 cup-head screws.

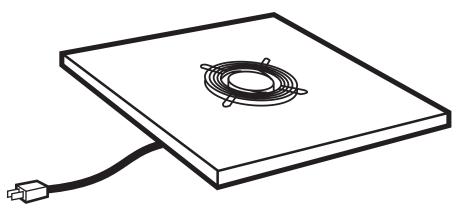


Figure 3-9. Top Filler Panel with Fan.

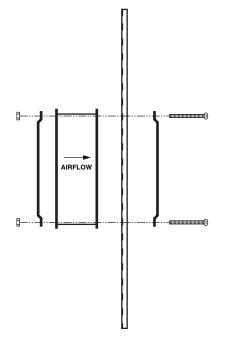


Figure 3-10. Airflow Through the Unit.

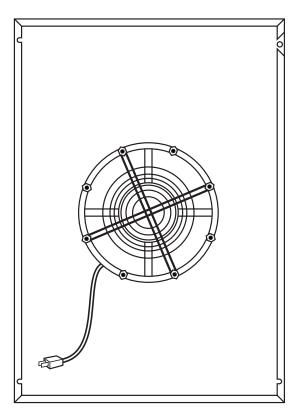


Figure 3-11. Fan Assembly.

3.9 Leg Levelers (RM322)

3.9.1 PARTS LIST

Before you begin, make sure you have the following parts.

1. (4) Leg Levelers

3.9.2 REQUIRED TOOLS

No tools are required to assemble the levelers.

3.9.3 Assembly Instructions

- A. Lay the cabinet on its side.
- B. Screw the leveler into the $\frac{1}{2}$ " diameter threaded weld nuts in the cabinet bottom.
- C. Adjust to the desired length.
- D. Repeat steps B and C for all 4 levelers.

Figure 3-12 shows how to install the levelers.

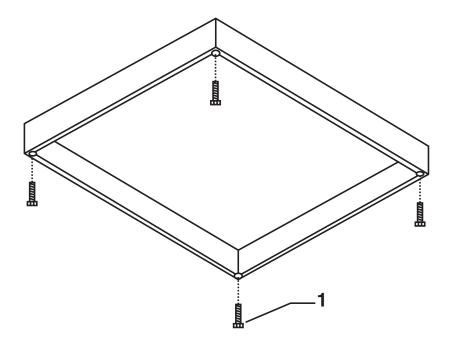


Figure 3-12. Installing the Leg Levelers.

3.10 Casters (RM323)

3.10.1 PARTS LIST

Make sure you have the following parts before assembling the casters.

- 1. (4) Casters
- 2. (16) ¹/₄-20 Kep Nuts
- 3. (16) ¹/₄" Flat Washers

3.10.2 REQUIRED TOOLS

You need the following tool to install the casters.

• 7/16 Open-End or Socket Wrench

3.10.3 Assembly Instructions

Follow these instructions to install the casters.

- A. Lay the cabinet on its side.
- B. Insert the caster over 4 threaded studs in the cabinet bottom.
- C. Secure the caster with a flat washer and a Kep nut on each stud.
- D. Repeat steps B and C for all 4 casters.

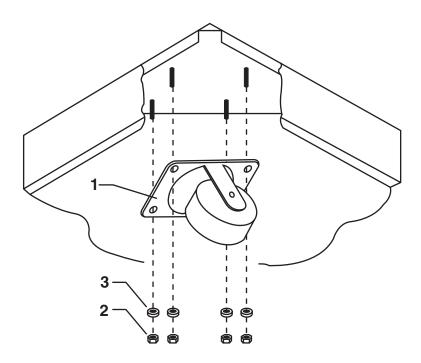


Figure 3-13. Installing the Casters.

3.11 Drawers (RM324, RM325)

3.11.1 PARTS LIST

Make sure you have the following parts before assembling the drawers.

- 1. (1) Drawer
- 2. (2) Slides
- 3. (2) Rear Brackets
- 4. (4) Nut Bars
- 5. (16) Binding-Head Machine Screws
- 6. (8) Hex Nuts w/Lock Washers

3.11.2 REQUIRED TOOLS

You need these tools to assemble the drawer.

- Straight-Blade screwdriver
- Adjustable wrench

3.11.3 Assembly Instructions

Follow these steps to assemble the drawer.

STEP 1: Install the rear brackets on the slides (see Figure 3-14).

- A. Attach the bracket to the rear of the slide using 2 binding-head machine screws and 2 hex nuts w/lock washers. Do not tighten at this time.
- B. Repeat step 1A for the other side.

STEP 2: Attach the slides to the cabinet corner post (see Figure 3-14).

- A. Select the desired location for mounting slides to the corner posts.
- B. Install the nut bars on the inside of the corner posts using binding-head machine screws.
- C. Insert the mounting flanges of the slide between the nut bar and the corner posts. Adjust the rear brackets. Tighten all binding-head machine screws.

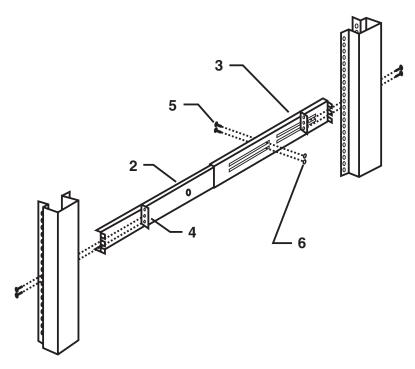


Figure 3-14. Installing the Rear Brackets on the Slides and Attaching the Slides to the Corner Posts.

STEP 3: Attach the inner slide member to the drawer assembly (see Figure 3-15).

- A. Remove the inner slide member from the slide by fully extending the slide forward until the latch mechanism engages. Press the forward button on the slide and completely pull the inner slide member from the slide assembly.
- B. Attach the inner slide member to the side of the drawer using 2 binding-head machine screws and 2 hex nuts w/lock washers.
- C. Repeat Steps 3A and 3B for the other side.

STEP 4: Attach the drawer to the cabinet (see Figure 3-15).

- A. Insert the drawer into the extended slides by pressing on the bottom inner member attached to the drawer.
- B. Push the drawer assembly inward until the lock position is engaged.
- C. Press the lock-out button to slide the drawer into the cabinet.

STEP 5: Adjust the drawer.

A. For smooth slide action, loosen the binding-head screws attached to the corner post, adjust the drawer assembly, then again tighten all the screws securely.

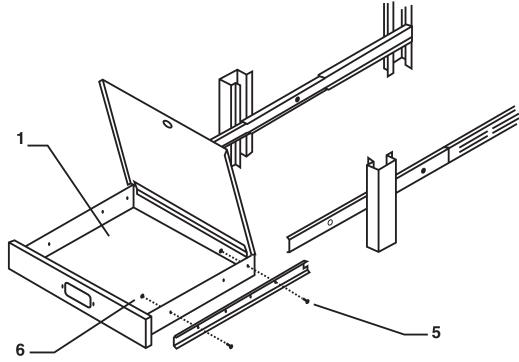


Figure 3-15. Assembling the Drawer.

3.12 Shelf—18" Sliding (RM326)

3.12.1 PARTS LIST

Before assembling the shelf, make sure you have the following parts.

- 1. (1) Sliding Shelf
- 2. (2) Slides
- 3. (2) Rear Mounting Brackets
- 4. (6) Nut Bars (including 2 extra)
- 5. (8) Hex Nut/Captive Washer (including 4 extra)

3.12.2 REQUIRED TOOLS

You need the following tool to assemble the shelf.

• Straight-Blade screwdriver

3.12.3 Assembling the Shelf

Follow these steps to assemble the shelf.

STEP 1: Install the Rear Brackets to the Slides (see Figure 3-16).

A. Attach the brackets to the rear of the slide using 2 pan head screws and 2 hex nut/captive washers. Do not tighten at this time.

B. Repeat step 1A for the other side.

STEP 2: Attach the sides to the cabinet corner posts.

- A. Select the desired location for mounting slides to the corner posts.
- B. Install the nut bars to the inside of the corner posts using pan-head screws.
- C. Insert the mounting flanges of the slide between the nut bar and the corner posts. You may need to adjust the rear brackets. Tighten all pan-head screws.

STEP 3: Attach the sliding shelf to the cabinet (see Figure 3-17).

- A. Pull out the intermediate slide from the cabinet.
- B. Insert the shelf into extended slides by pressing the button.
- C. Push the sliding shelf assembly inward until the lock position is engaged.
- D. Press the lock-out button to slide the shelf inside of the cabinet.

STEP 4: Adjust the sliding shelf.

A. For smooth slide action, loosen the pan-head screws attached to the corner post, adjust the shelf assembly, then retighten all the screws.

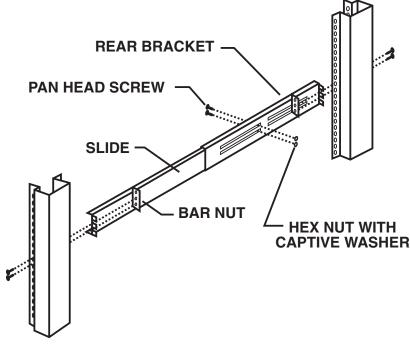


Figure 3-16. Attaching the Slide to the Rear Bracket.

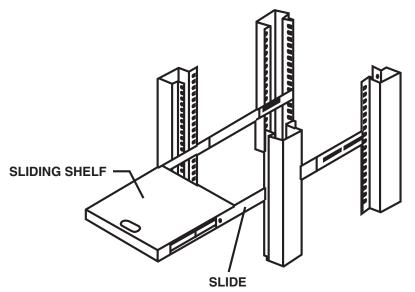


Figure 3-17. Attaching the Sliding Shelf.

3.13 Cage Nuts (RM327)

There are no special instructions for installing the cage nuts. Use them for heavy-duty applications, with 0.281: EIA holes on corner cabinets.

3.14 Cup-Head Screws (RM328)

There are no special instructions for installing the cup-head screws. They are 10/32 threaded cup head screws with a black anodized finish. The screws are 1.125'' long, and include a nylon washer.

3.15 Multi-Bay Joining Kit (RM329)

3.15.1 PARTS LIST

Make sure you have the following parts before assembling the kit.

- 1. (6) ¹/₄-20 Hex Nuts
- 2, (6) ¹/₄-20 x ³/₄" Hex-Head Bolts
- 3. (6) ¹/₄" Flat Washers
- 4. (6) $\frac{1}{4}$ " Lock Washers

3.15.2 REQUIRED TOOLS

You need the following tool to assemble the kit.

• 7/16" Wrench or Socket

3.15.3 Assembling the Kit

Follow these steps to assemble the kit.

STEP 1: Prepare the cabinets to be joined.

A. Position the assembled Comm Cabinets side-by-side with the side panels removed.

B. Align the 3 keyholes in vertical corner posts.

STEP 2: Join the cabinet bays.

A. Insert the hex-head bolt through the adjacent keyholes in the corner posts.

B. Install the flat washer, lock washer, and hex nut. Tighten them.

C. Repeat steps 2A and B for all 3 keyholes in both the front and rear corner post.

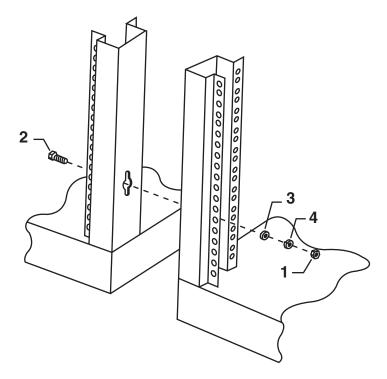


Figure 3-18. Assembling the Joining Kit.