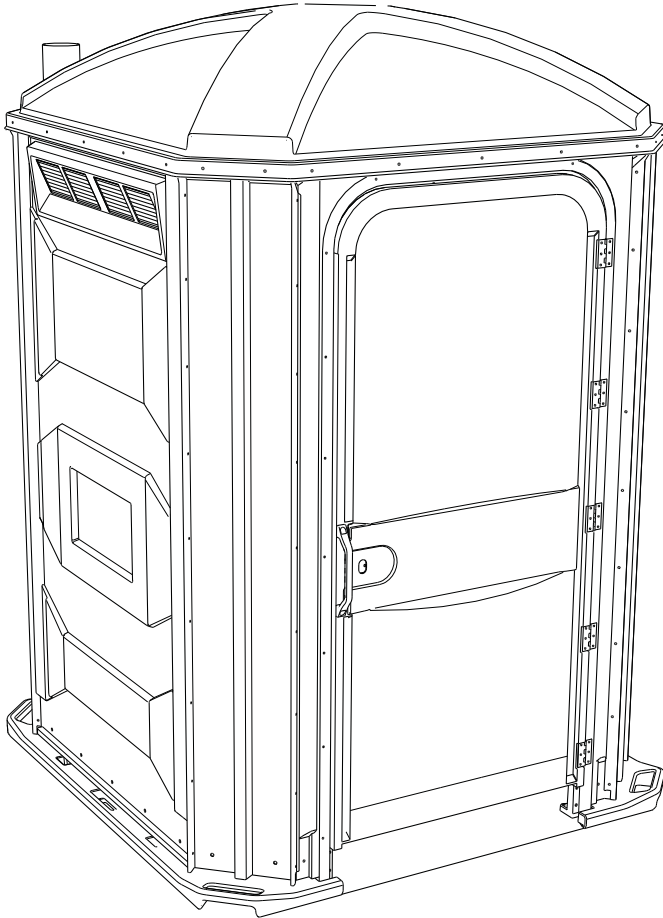


# PH03 Comfort XL™

## Assembly Instructions

USA PATENTS: 4,577,351, 4,637,299, 4,793,100, 4,831,671, 4,895,400, 4,918,765  
Des. 304,082 CANADIAN PATENT: 1311898



### **SPECIFICATIONS**

<b>DIMENSION</b>	<b>IMPERIAL</b>	<b>METRIC</b>
Exterior Height	91 in	231 cm
Exterior Width	62 in	157 cm
Exterior Length	62 in	157 cm
Door Frame Height(I.D.)	74 in	188 cm
Door Frame Width(I.D.)	32 in	81 cm
Tank Seat Height	19 in	48 cm
Weight	240 lb	108 kg
Static Tank Capacity	33 gal	125 L
Recirc Tank Capacity	22 gal	83.6 L
Side Panel Decal Area	12" x 23"	30cm x 58cm
Door Panel Decal Area	27" x 27"	68cm x 68cm

*We recommend reading through the entire Assembly Instructions prior to proceeding with installation, service or maintenance. All references to left and right throughout this guide are as viewed from the front.*

PC-000490 - T.P. Dispenser  
 PC-000760 - Rod  
 PC-000205M - Lock  
 (4) PC-000100 - Rivet  
 (4) PC-000106 - Washer

PH03-0008R - Roof  
 (28) PC-000100 - Rivet  
 (28) PC-000106 - Washer

PC-000531 - Vent Stack  
 (1) PC-000117 - Rivet

(3) PH03-0020 - Heavy Duty Grab Bar  
 (24) PC-000105 - Rivet  
 (24) PC-000106 - Washer

PC-000204  
 Toilet Seat

PH03-0001C - Floor Complete  
 PH03-0001R - Right Base Surround  
 PH03-0001L - Left Base Surround  
 PH03-0002 - Floor Plate  
 (21) PC-000117 - Rivet  
 (23) PC-000121 - Washer  
 (2) PC-000174 - Bolt  
 (2) PC-000123 - Washer  
 (2) PC-000140 - Nylon Lock Nut

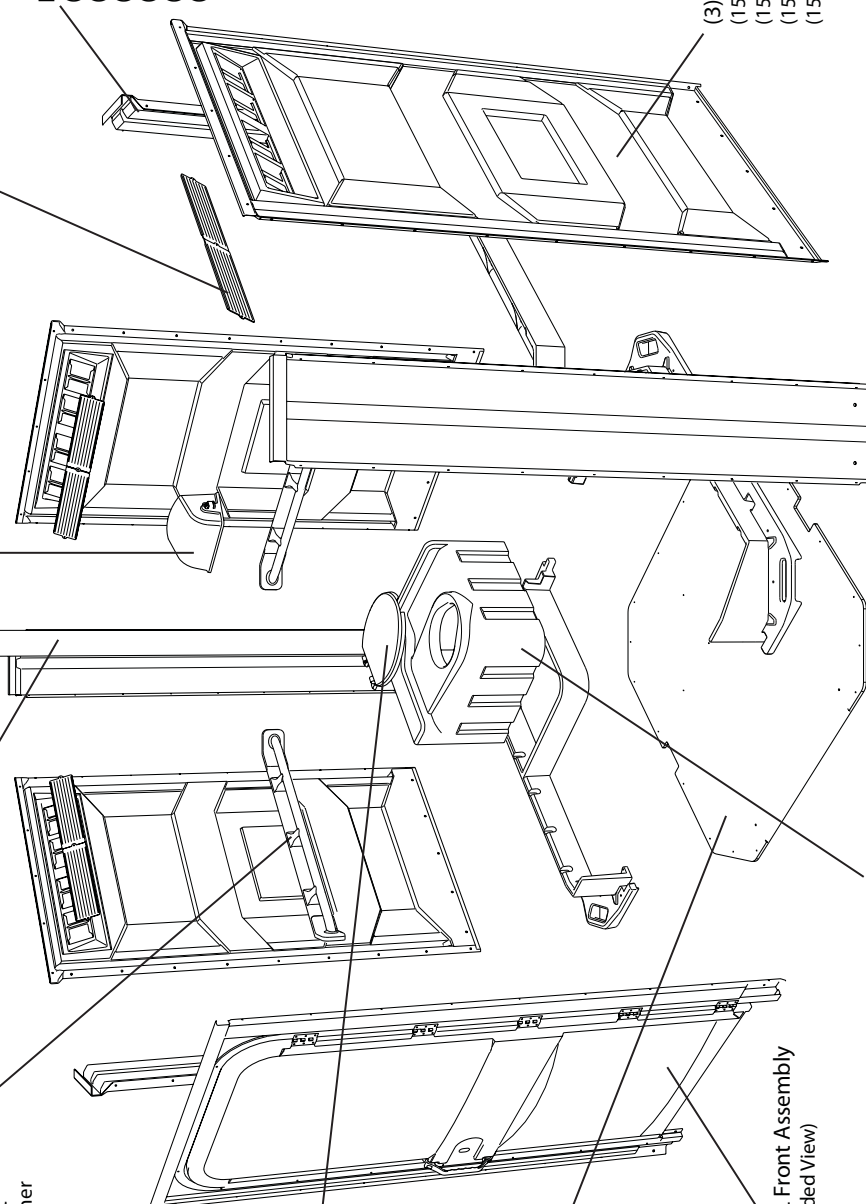
PH01-0003 - Comfort XL Front Assembly  
 (See Front Assembly Exploded View)

PH03-0009 - Waste Holding Tank  
 (4) PC-000103 - Rivet  
 (4) PC-000106 - Washer

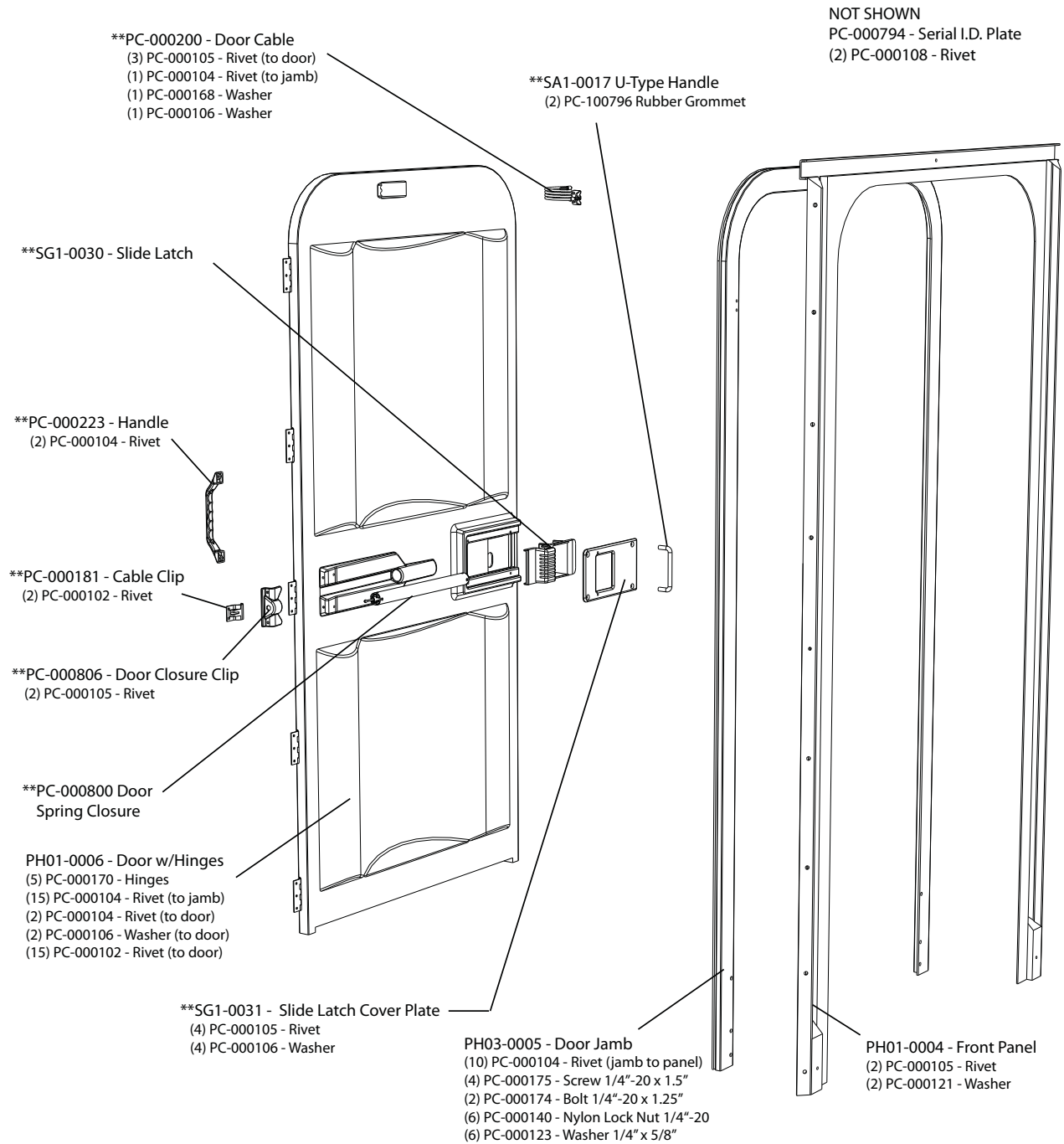
(6) PC-000570 - Fly Screen  
 (9) PC-000100 - Rivet  
 (9) PC-000106 - Washer

PH01-0010 - Corner Panel  
 (72) PC-000100 - Rivet  
 (72) PC-000106 - Washer  
 (8) PC-000121 - Washer  
 (8) PC-000123 - Washer  
 (8) PC-000139 - Bolt  
 (8) PC-000140 - Nut

(3) PJ03-0002 - Side Panel  
 (15) PC-000121 - Washer  
 (15) PC-000123 - Washer  
 (15) PC-000139 - Bolt  
 (15) PC-000140 - Nut

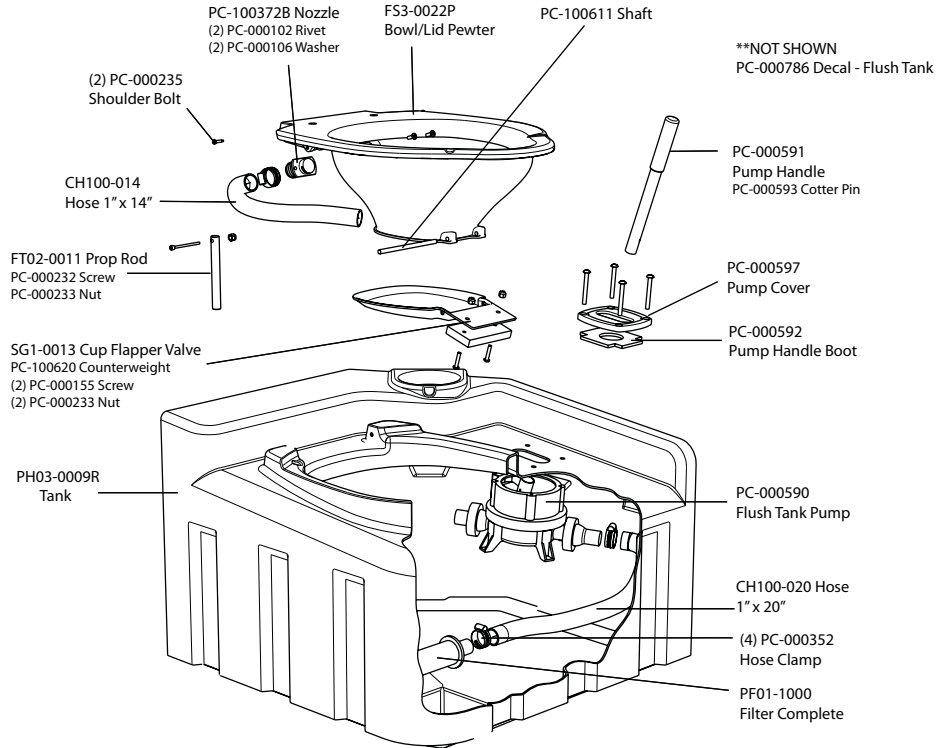


## PH01-0003 Front Assembly

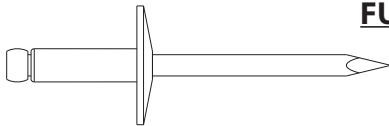


\*\* Items are not included with PH01-0003 Front Assembly.  
Parts bag PH03-0206 is available for replacement purposes.

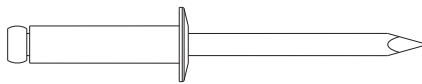
## Optional Recirculating Flush System - Exploded View



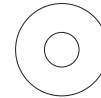
### FULL SIZE SCALE FASTENER DRAWINGS



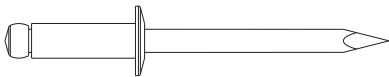
(113) PC-000100 Rivet  
Large Flange, Short



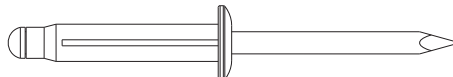
(5) PC-000104 Rivet  
Small Flange, Long



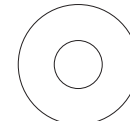
(144) PC-000106  
Washer  
3/16" Back-up



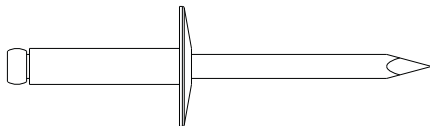
(4) PC-000102 Rivet  
Small Flange, Short



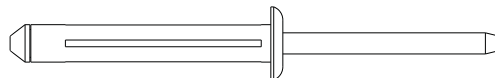
(35) PC-000105 Rivet  
Small Flange



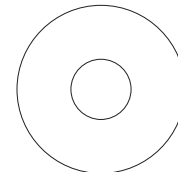
(29) PC-000123 Washer  
1/4" x 5/8" Flat



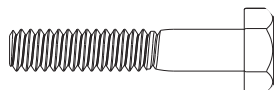
(4) PC-000103 Rivet  
Large Flange



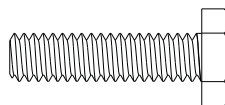
(1) PC-000117 Rivet  
Klamptite 3/4" Grip



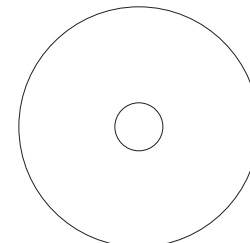
(1) PC-000168 Washer  
5/16" x 7/16" Flat



(2) PC-000174 Bolt  
1/4"-20 x 1-1/4" Hex Head



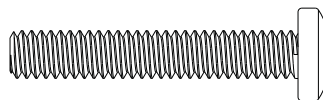
(23) PC-000139 Bolt  
1/4"-20 x 1" Hex Head



(25) PC-000121 Washer  
1/4" x 1-1/4" Fender



(29) PC-000140  
Nut 1/4"-20 Nylok



(4) PC-000175 Screw  
1/4"-20 x 1-1/2" Phillips

## GENERAL OVERVIEW

- Please follow directions in the sequence they are presented. It is suggested you read through the entire assembly instructions prior to proceeding.
- Proper handling is required, especially structures that have flat floors with minimal foundations. Dropping this unit during transport and site set-up may cause structural damage or misalignment of the front assembly and door.
- Position on clear level ground, shims may be used under the floor to aid in leveling, or the door may be out of alignment.
- The **PH03 Model** restroom assembly will require two people.
- All drilling with 13/64" and 1/4" drill bits. All rivet holes drilled 13/64" dia.
- All references to left, right, front and rear throughout the entire assembly instructions are as viewed from the front of the restroom.

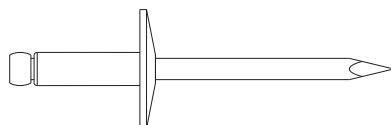
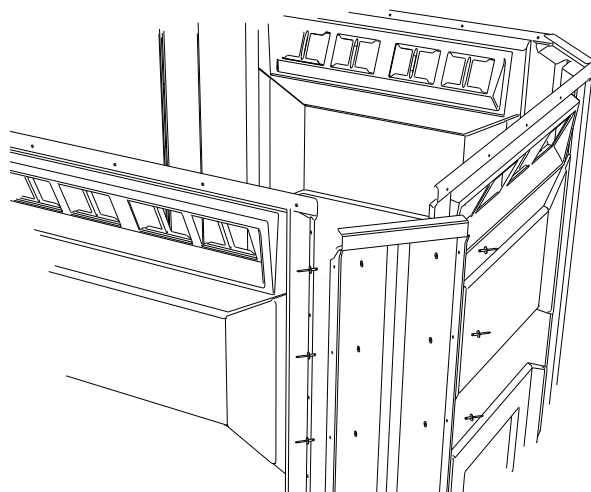
### ~~Tools Required for Assembly~~

- |                              |                        |                |
|------------------------------|------------------------|----------------|
| • 13/64" Drill Bit           | • 1/4" Drill Bit       | • Tapered Awls |
| • Rivet Gun 3/16" nose piece | • Phillips Screwdriver | • Hammer       |
| • Tape Measure               | • 7/16" Wrench         | • Vise-Grips   |

## ASSEMBLY INSTRUCTIONS

### Step 1. Three Wall Panels and Four Corner Molding Sub-Assembly

Locate three wall panels and four corner panels. Choose one of the wall panels to be the rear panel and add a corner molding to each side of the rear panel wall using (9) PC-000100 rivets and (9) PC-000106 back-up washers. Rivet in the center holes first, then to the top, and back down to the bottom. Follow this procedure for both of the side wall panels connecting them to both rear corners. Repeat, as well for both of the front corner moldings. **NOTE:** (Make sure to rivet corner moldings from the outside in, this gives a good visual appearance.) Lift the three wall panels and four corner moldings sub-assembly and wrap them around the base, resting the corners on the 1/4" raised areas molded into the top of the base.



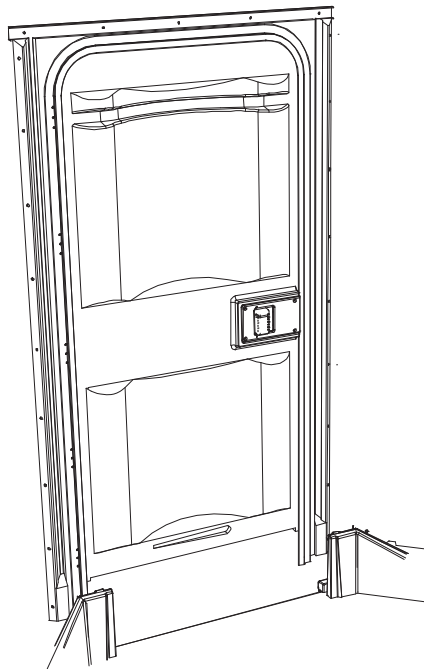
PC-000100 Rivet  
54 Used in this step



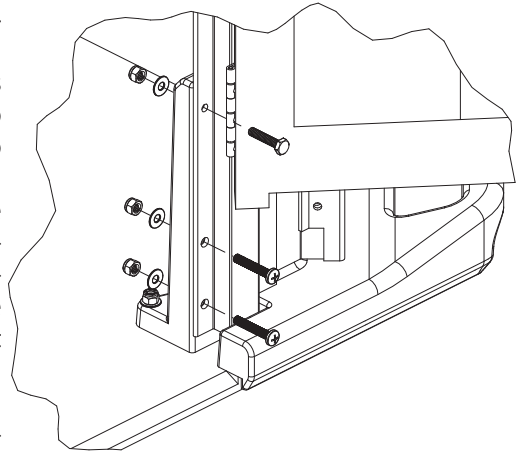
PC-000106 Washer  
54 Used in this step

## Step 2. Front Sub-Assembly to the Base Surrounds

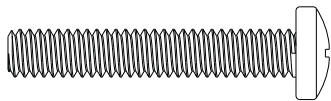
Lift the front sub-assembly and place the legs of the aluminum door jamb into the “pockets” of the base surround on each side of the door opening. Attach the front sub-assembly to the front corner moldings by riveting into the pre-



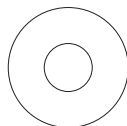
drilled holes using (9) PC-000100 rivets and (9) PC-000106 back-up washers as in Step 1. **NOTE:** (Make sure that you rivet from the outside of the front toward the corner.) For shipping purposes, there are two plastic clips that hold the door to the door jamb. Locate the two plastic clips, one is in the center of the door, and the other is at the bottom of the door. Drill out the rivets that fasten the clips to the door jamb, and replace with (2) PC-000104 rivets. Open the door and drill out the top plastic clip that is on the door. Replace the clip with (1) PC-000106 back-up washer behind the head of (1) PC-000104 rivet. Repeat for the plastic clip that is at the bottom of the door. On the outside center of the door there are two pre-drilled holes. Rivet the door handle PC-000223 with (2) PC-000104 rivets and then flip up the fastener covers, and snap into place. Grab one side of the front assembly and pull tightly into the “pocket” of the base surround and place a pair of vise-grips onto the base surround holding the front sub-assembly. Locate the three pre-drilled holes in the bottom of the door jamb, using a 1/4” drill bit, drill into those holes all the way through the base surround. Insert into the two bottom holes (2) PC-000175 screws with (2) PC-000123 washers with (2) PC-000140 lock-nuts. **DO NOT TIGHTEN TO THE END OF THE THREAD, TIGHTEN JUST SO THE LOCK-NUT IS JUST FLUSH AT THE END OF THE SCREW.** Insert into the top hole (1) PC-000174 bolt with (1) PC-000123 washer and (1) PC-000140 lock-nut. **DO NOT TIGHTEN TO THE END OF THE THREAD, TIGHTEN JUST SO THE LOCK-NUT IS JUST FLUSH AT THE END OF THE SCREW.** Repeat this for the other side of the front sub-assembly.



Repeat this for the other side of the front sub-assembly.



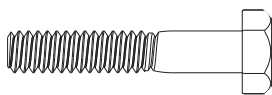
PC-000175 Screw  
4 Used in this step



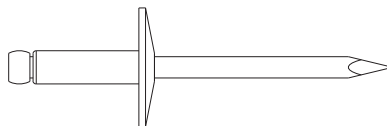
PC-000123 Washer  
6 Used in this step



PC-000140 Nut  
6 Used in this step



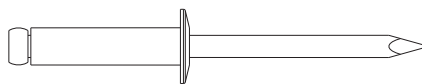
PC-000174 Bolt  
2 Used in this step



PC-000100 Rivet  
18 Used in this step

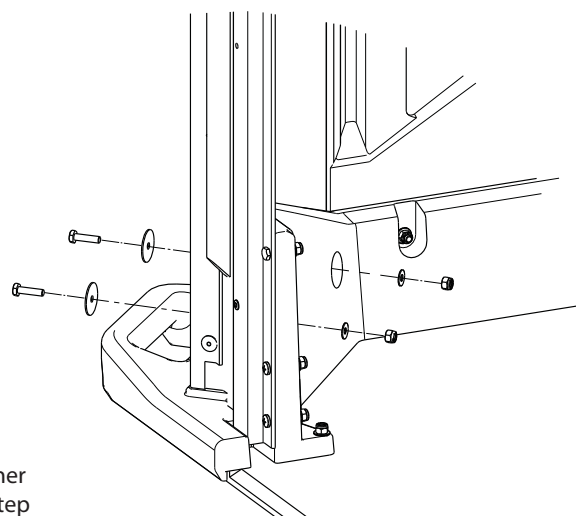
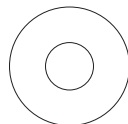
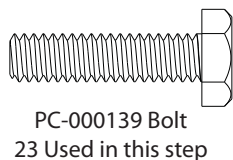
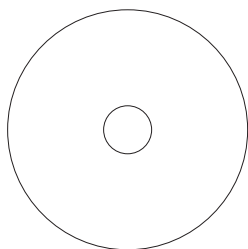
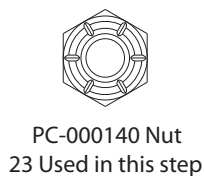


PC-000106 Washer  
20 Used in this step



PC-000104 Rivet  
6 Used in this step

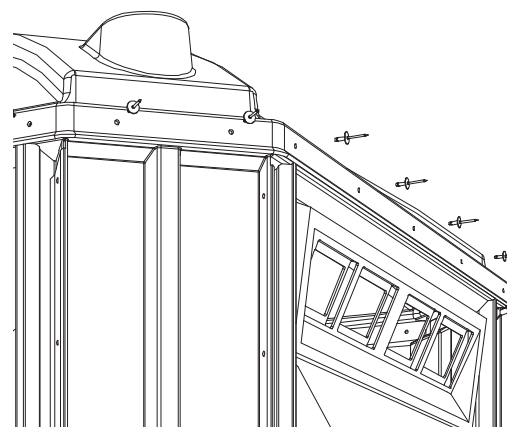
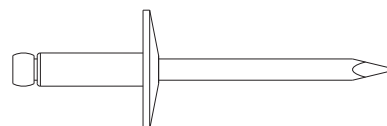
### Step 3. Attaching the Wall Panels and Corner Moldings to the Base Surround



**Start with the front panel first:** Use a 13/64" drill bit. Drill a hole into the front wall panel on each side of the door jamb into the first wall of the base surround. Rivet (2) PC-000105 rivets with (2) PC-000121 washers. **For the side panels:** Place a PC-000121 washer on a PC-000139 bolt and insert the bolt through the center hole in the left side panel and into the base surround. Place a PC-000123 washer on the inside along with a PC-000140 nut and tighten. Repeat this step for the other two side panels. Level the left side panel, and using the remaining holes in the side as a guide, drill 1/4" holes all the way through the base surround. Fasten the side to the base using the same method as for the center hole. Repeat this for the rest of the sides. **For the corner moldings:** **NOTE:** (*Be sure the corners are pushed tight against the base surround by pushing the corner at the rib in the center.*) Start with the front corners first. From the inside of the unit, locate the two recesses in the front inside corners of the base surround. Drill a 1/4" hole through the centers of these recesses and through the corner panel. Fasten in place using the PC-000121 washers and PC-000139 bolts on the outside with the PC-000123 washers and PC-000140 nuts on the inside. Tighten in place. Repeat these steps for the remaining corner panels.

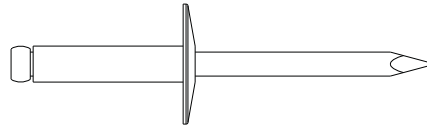
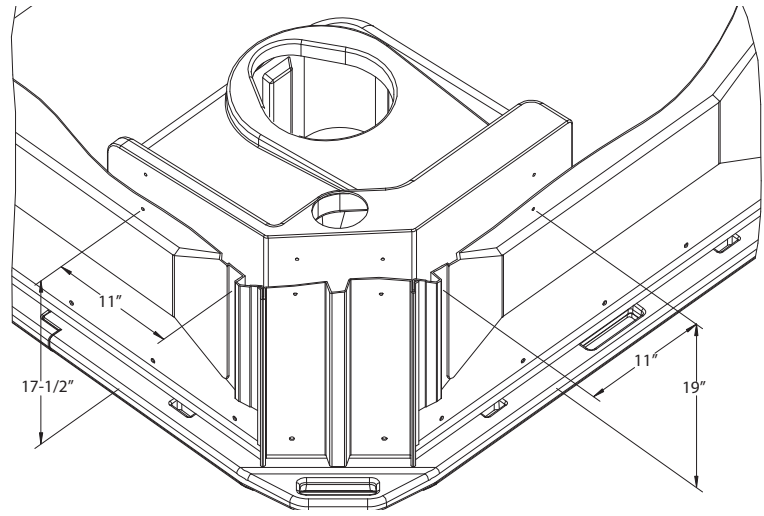
### Step 4. Roof Assembly

**NOTE:** (*The front and three wall panels are supplied with pre-drilled holes at the top center of each panel. The roof is supplied with dimple spots along each of the eight edges.*) Use a 13/64" drill bit. Drill holes in the center dimple spots of the roof. **IMPORTANT - BE SURE TO ALIGN THE HOLE FOR THE VENT STACK IN THE ROOF WITH THE HOLE IN THE TANK.** **Start with the front of the unit:** The roof needs to be aligned with the center hole in the jamb. When aligning the roof to the front assembly, apply pressure to the left corner molding, this will cause the door to move up and down within the aluminum door jamb. Before installing the rivets in this area square up the door to the jamb. Someone on the outside will rivet PC-000100 rivets through each of the four center holes of the roof to the wall panels, while another person places PC-000106 back-up washers on the rivet stems from inside the unit. **Proceed with the corner moldings:** Using a 13/64" drill bit, drill holes in the center on both sides of the rib and then rivet into place as above. **For the wall panels:** Hold the roof firmly against the wall panels. Using a 13/64" bit, drill through the remaining dimple spots of the roof into the wall panels. The person on the outside will again rivet the PC-000100 rivets through the drilled holes, while from inside, someone will place PC-000106 back-up washers on the rivet stems.

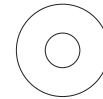


### Step 5. Waste Tank Installation

On the outside of the unit someone will measure and mark drill spots. For the rear wall panel measure from the inside edge of the rib in 11" and up from the top of the base surround 17-1/2" and mark with a marker. For the corner molding measure in the center of each side of the rib and up from the top of the base surround and mark at 19". On the left wall panel measure from the inside edge of the rib in 11" and up from the top of the base surround and mark at 19". Position the waste tank in the left rear corner on the tank supports of the base surround. While inside one person pushes the tank against the wall panels and corner, using a 13/64" bit, someone on the outside will drill through the four spots just marked. **CAUTION: WHEN DRILLING HOLES, ESPECIALLY THE REAR PANEL, BE SURE TO DRILL ONLY THROUGH THE FIRST WALL OF THE TANK.** Rivet into the holes using (4) PC-000103 rivets from the outside with (4) PC-000106 back-up washers on the inside of the tank.



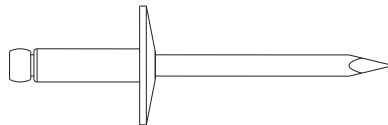
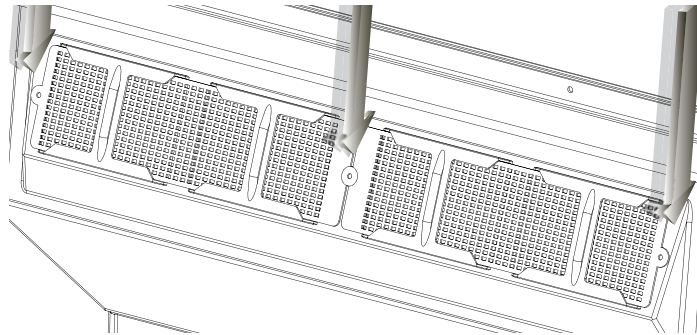
PC-000103 Rivet  
4 Used in this step



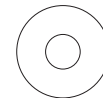
PC-000106 Washer  
4 Used in this step

### Step 6. Fly Screen Installation

Each of the three sidewall panels has two vent screens. On the surface of each screen there is a date stamp symbol. The symbol goes toward the center of the sidewall panel, facing the inside. For each of the sidewalls, insert into the vent slot one screen from each side and overlap the center holes of the screens (at the date stamp symbol). **IMPORTANT - MAKE SURE BOTH SCREENS ARE CENTERED IN THE VENT SLOT.** From inside the unit using a 13/64" drill bit, drill a hole through the center hole of the screen and into each of the side walls. From the outside rivet a PC-000100 rivet into the center hole with a PC-000106 back-up washer on the inside. From inside the unit using the holes at the ends of the screens as guides, drill holes through to the wall panels. From the outside rivet the screens in place with PC-000100 rivets and PC-000106 back-up washers on the inside.



PC-000100 Rivet  
9 Used in this step

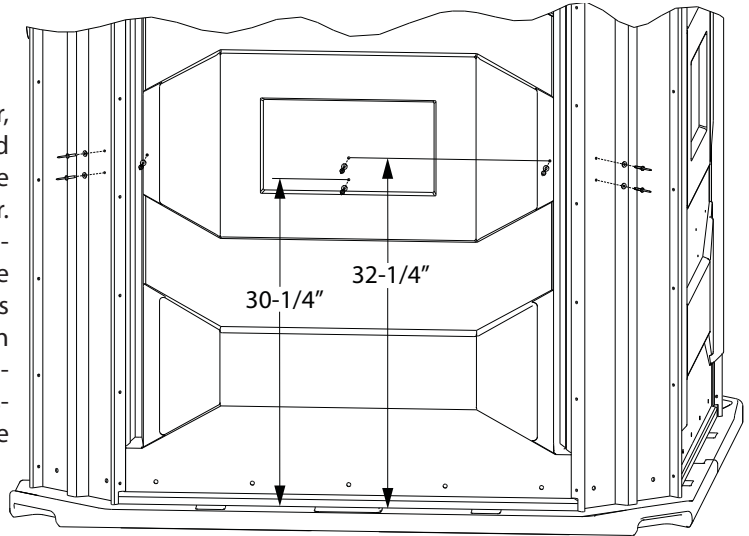


PC-000106 Washer  
9 Used in this step



### Step 7. Grab Bar Mounting Locations

To mark the holes to mount the right side grab bar, use the diagram to the right as a reference, and mark the mounting hole locations as shown. There are a total of 8 hole locations for each grab bar. Five (5) of the holes are located at a height of 32-1/4" from the top of the base surround, and three (3) holes at a height of 30-1/4". The hole locations on the corner panels are located halfway between the center rib and the corner/side connection. Repeat this for the rear and left panel grab bars. Using a drill with a 13/64" drill bit, drill holes in the locations just marked.

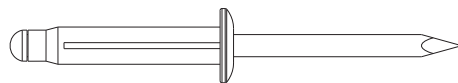
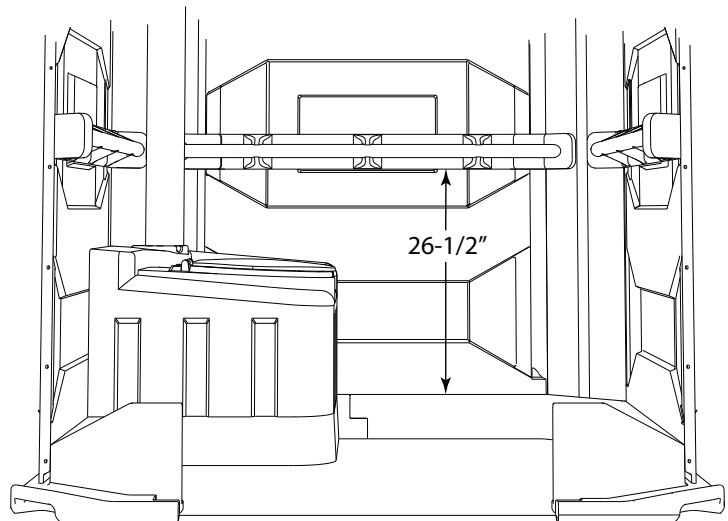


### Step 8. Grab Bar Installation

On the inside of the right side panel, measure and position the bottom of the grab bar at 26-1/2" up from the top of the base surround. The bottom of the grab bar should be even with the bottom edge of the rectangular boss in the middle of the side panel. With one person holding the grab bar in place on the inside of the unit, have another person drill the eight 13/64" diameter holes through the holes drilled in the previous step.

**Be sure to drill through only one wall of the grab bar.**

Place (8) PC-000106 Back-Up Washers on (8) PC-000105 rivets, and rivet the grab bar in place. Repeat this step for the rear and left panel grab bars.



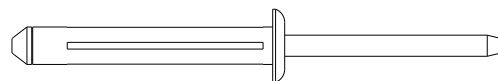
PC-000105 Rivet  
24 Used in this step



PC-000106 Washer  
24 Used in this step

### Step 9. Vent Stack Installation

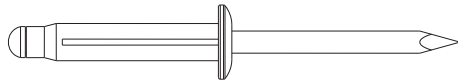
Slide the vent stack up through the 4" hole of the roof and down into the corresponding hole in the tank. Using a 13/64" drill bit, drill a hole through the boss on the tank and through the vent stack. Rivet into place with (1) PC-000117 rivet.



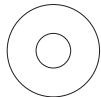
PC-000117 Rivet  
1 Used in this step

### Step 10. Slide Latch and Cover Plate

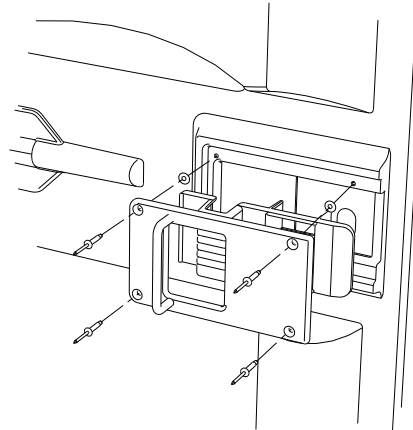
Place the slide latch in the cut-out recess of the door with the "OPEN/IN USE" decal facing the outside of the door. Place the slide latch cover plate over the slide latch. **IMPORTANT: RIVET THE SLIDE LATCH AND COVER PLATE INTO PLACE WITH (4) PC-000105 RIVETS WITH (4) PC-000106 BACK-UP WASHERS ON THE ENDS OF THE RIVET IN BETWEEN THE COVER PLATE AND DOOR.**



PC-000105 Rivet  
4 Used in this step

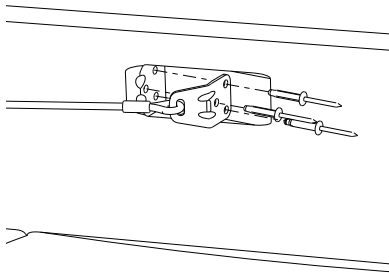


PC-000106 Washer  
4 Used in this step

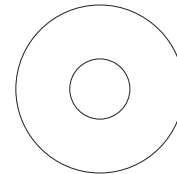


### Step 11. Door Check Cable

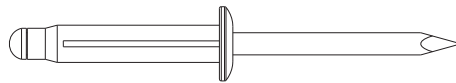
Align the three holes of the metal bracket on the door check cable to the holes in the top inside center of the door so that the bracket angles toward the unit and the three holes line up with the holes in the bracket (as shown). Rivet into place using (3) PC-000105 rivets. Locate the top middle pre-drilled hole of the door jamb and from the outside put the other end of the cable on (1) PC-000104 rivet, followed by (1) PC-000168 washer and (1) PC-000106 back-up washer. Rivet in place. **NOTE: (Rivet from outside in, to allow for the door to close properly.)**



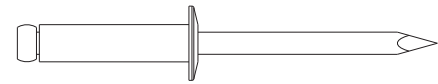
PC-000106 Washer  
1 Used in this step



PC-000168 Washer  
1 Used in this step



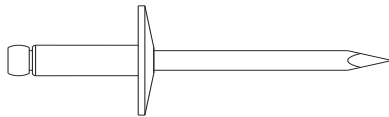
PC-000105 Rivet  
3 Used in this step



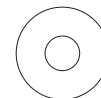
PC-000104 Rivet  
1 Used in this step

### Step 12. Toilet Paper Dispenser

The double roll dispenser is mounted up on the center of the rear wall panel. Position the dispenser on the bottom edge of the first raised rib directly below the fly screens. Level the dispenser on the wall and use the four holes in the back of the dispenser as a guide to mark the location for drill holes. Drill four 13/64" holes into the drill spots just marked. Use awls to hold the T.P. Dispenser in place. From outside of the unit rivet in place using (4) PC-000100 rivets and (4) PC-000106 back-up washers on the inside.



PC-000100 Rivet  
4 Used in this step



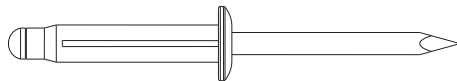
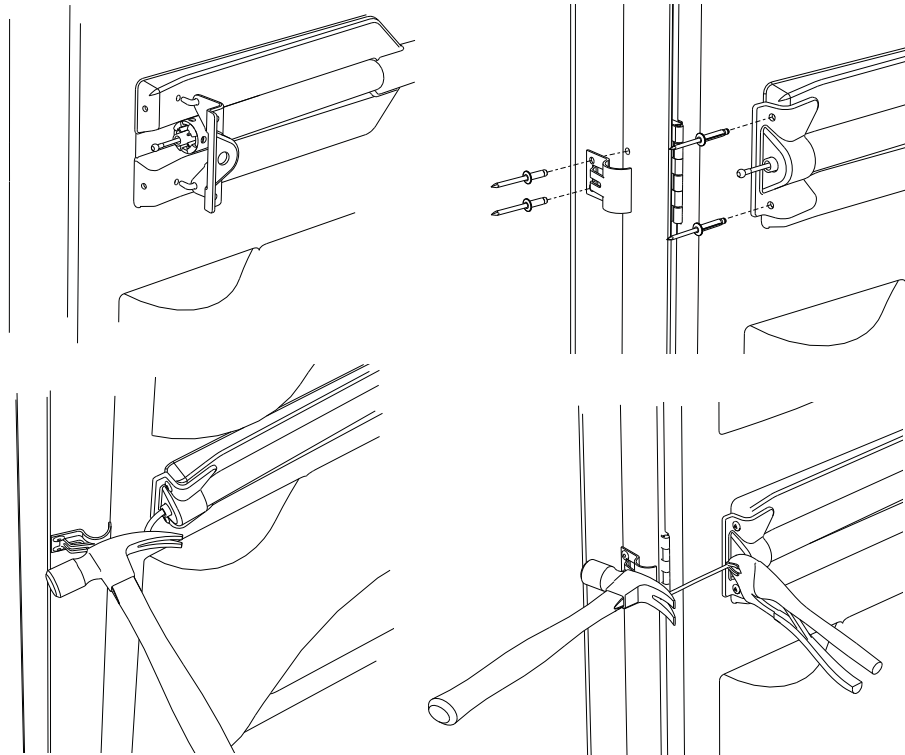
PC-000106 Washer  
4 Used in this step

### Step 13. Toilet Seat Installation

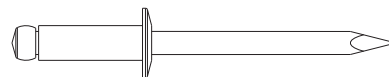
Place the toilet seat on the top of the tank. Line up the holes in the hinge of the seat with the holes in the top of the tank. Insert the seat bolts through the seat hinge and through the tank. Lift open the seat, thread the plastic seat nuts on the ends of the bolts and tighten.

### Step 14. Door Closure Installation

Push the spring tube assembly with the swaged ball into the molded pocket. Place the door closure retainer clip on the door over the end of the spring tube assembly and rivet into place with (2) PC-000105 rivets. Line up the cable clip in the center of the door jamb to the door closure retainer clip. From inside the unit using a 13/64" bit, drill two holes into one side of the door jamb only. Rivet the cable clip to the door jamb using (2) PC-000102 rivets. On the inside of the unit, place the top of a hammer against the cable clip. Place the ball end of the spring cable in the claw of the hammer. Open the door while holding the hammer in position. Hold the door open with your foot and clamp a vice-grip pliers on the cable where it comes out of the door. **BE SURE TO CLAMP DOWN TIGHT.** Remove the cable from the claw of the hammer, close the door and place the end of the cable into the slot of the cable clip. Open the door and remove the vice-grips.



PC-000105 Rivet  
2 Used in this step



PC-000102 Rivet  
2 Used in this step

## **CLEANING AND MAINTENANCE**

- Use a mild soap to clean all surfaces and component parts.
- Minor scratches and abrasions can be lightly sanded or scrubbed with a mild abrasive cleaner (*such as "Soft Scrub"*) that contains calcium carbonate, hypochlorate bleach, and detergents. Be sure to follow the cleaning product directions since these ingredients may cause hazardous gases when mixed with other chemicals. Rinse the cleaned areas and buff with a conventional wax.
- Some light scratches may also be hidden by using an industrial hot air gun.
- To keep the interior smelling fresh, spray with a deodorant spray.