

Installation

Euro Style Restroom Partitions Glass – LUCENT Series



Table of Contents

Safety Information	2
Supplies Required	2
Measuring & Marking Drill Holes	3
Marking Drill Holes for Floor Pivots	3
Installing the Floor Pivots	4
Attaching the Retaining Brackets	5
Installing & Securing the Dividing Panel	6
Installing the Dividing Panel	7
Mounting the Headrail	8
Assembling Panels to Pilasters Using L-Brackets	9
Installing the Doors	10
Hydraulic Hinge Guide	10
Aligning the System	11
Final Assembly	12
Mounting the Door Latch	13
Latch Selection Guide	13
Mounting Hooks & Bumpers	20
Assembling the Self-Closing, Hydraulic Hinge Assembly	20
Fraction-Decimal Conversion Chart	23



Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance, and troubleshooting information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under “Resources” on our website at bradleycorp.com.



Safety Information

Warning

Before beginning installation, make sure that the wall and floor backing are adequate to support the secure mounting of the toilet compartment units.

Partitions are extremely heavy and may require more than one person to position and install.

Failure to comply with these instructions may result in personal injury and/or property damage and will void the partition warranty.

Caution

Personal protective equipment (PPE) is required during the installation and maintenance of this product.

Notice

Make sure all floors and walls are clean and smooth. Remove loose impediments, such as protruding nails and other debris which could affect installation.

Carefully remove components from skid, do not drag.

Important

Review your partition layout drawings and verify the number of stalls and components before beginning installation.

Read this installation manual completely to ensure proper installation, then file it with the owner or maintenance department. This installation manual provides instruction for the assembly of normal partition configurations and standard components. Non-standard configurations or components including but not limited to curved or angled walls, notched walls, partial walls, oversized panels, or modified hardware may not be covered in this manual. Compliance and conformity to local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

Supplies Required

- Chalk line and pencil
- 4D laser level
- Power drill or screw gun with drill bit extension
- Cordless screwdriver
- Power rivet gun
- Metric tape measure (recommend a wood folding metric ruler)
- Standard hand tools
- Metric drill bits as needed
- Metric Allen wrench set
- Countersunk rosette key or small snap ring wrench
- HB45 construction adhesive or equivalent such as Sikaflex 552 or Wurth Bond and Seal
- Step ladder
- Anchoring Cement
- Clamps

1 Measuring & Marking Drill Holes

- ☒ When installing the partition components, consult the applicable Bradley Partition submittal drawing specific to this job for compartment layout dimensions.

A From the accompanying production drawing note the centerline dimensions and the dimension line of the front wall. Transfer these measurements to the floor. In some cases, a floor drill guide will be provided.

2 Marking Drill Holes for Floor Pivots

A Using the hinge floor pivot as a template, trace the drilling hole locations onto the center line of the front panel on the floor.

- ☒ Refer to the drawing for the measurements for exact drilling points for the holes in the floor.

B Trace the drilling holes for the floor pivot and the dividing panel support onto the dividing panel centerline on the floor.

- ☒ Refer to the drawing for the measurements for exact drilling points for the holes in the floor and dividing panel supports.

- ☒ Exact dimensions of floor drillings is crucial.

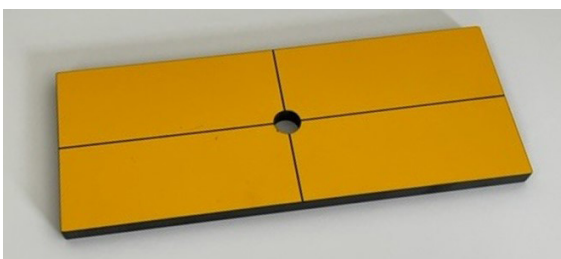
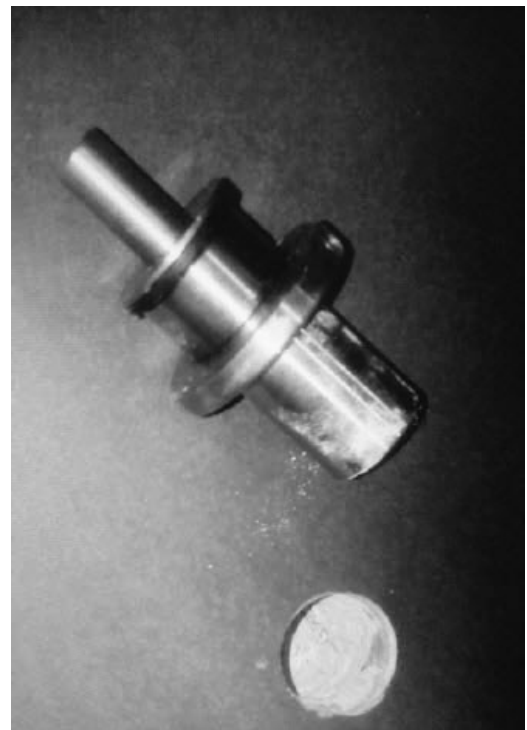
- ☒ Account for gaps, pilaster width, and door width.

- ☒ Centerline of lower hinge assembly hole in floor is 83mm from edge of door on the hinge side.

- ☒ Panel support floor anchor is 113mm center line recessed in from centerline front pilaster. Confirm before drilling hole.

C On the traced centerlines, use a wet drill with an 18 mm core bit to drill 30 mm into the floor.

- ☒ Optional - Use Bradley provided (on loan) drilling guide to aid in drilling holes in floor.



3 Installing the Floor Pivots

A Verify all dust and water has been removed from the drilled holes. Insert fast-drying, epoxy-based adhesive into the holes.

B Unthread upper collar from the floor support.

☒ *Optional-thread Bradley provided (on loan) target level to aid installing lower floor support perfectly level.*

C Place the floor pivot into the glue until the large collar plate is pressed firmly against the floor. Verify the floor pivot is vertically straight.

☒ *It is normal for some excess glue to seep out from under the plate.*

☒ *Verify the setscrew is accessible to allow for height adjustment.*

D Wear gloves and use Acetone to quickly and carefully remove any excess glue before the glue cures.

☒ *It is normal for some excess glue to seep out from under the plate.*

☒ *Depending on the room and floor temperature, the glue may cure quickly. If glue dries before the excess can be removed, you may carefully chip away the excess glue using a chisel.*

E After the lower portion of the floor pivot/support is set and the glue has hardened, you can assemble the upper components to the floor units. For lower door hinge units, thread the male threaded post into the lower unit, assemble the ball bearing washer next, metal washer next, and finally the thick brass bushing onto the floor unit, in that order. Thread the post out by one full turn so door hinge does not rub against base.

For the regular support units, thread the male threaded post into the lower unit, followed by the large silver bushing.



4 Attaching the Retaining Brackets

A

Mark the centerline hole locations on existing back and side walls for the retaining brackets that support the dividing panels. Use a 4D laser level and begin with the lowest bracket. These dimensions are appropriate for standard height panels.

- Lower bracket 67 mm from the floor.
- Middle bracket 1050mm from floor
- Upper bracket 1900mm from floor

**B**

Place the angled bracket into the lower retaining bracket as shown. The angled bracket will support the dividing panel and prevent it from slipping.



Be aware of your surroundings and avoid electrical wires and pipes.

C

Drill the marked hole locations on existing back and side walls using an 8 mm drill bit, and then secure the retaining brackets in place using 8 mm x 51 mm wall anchors and 5.5 mm x 60 mm countersunk screws. Use a level to make sure the brackets are vertical.



5 Installing & Securing the Dividing Panel

A

Assemble the lower part of the support bracket into the two holes found along the lower part of the front of the dividing panel. This lower support bracket has a large round opening that goes over the floor support, with four set screws for final adjustment. Loosen all four set screws on the lower hinge assembly so the inner points are completely out of the way of the floor pivot.

B

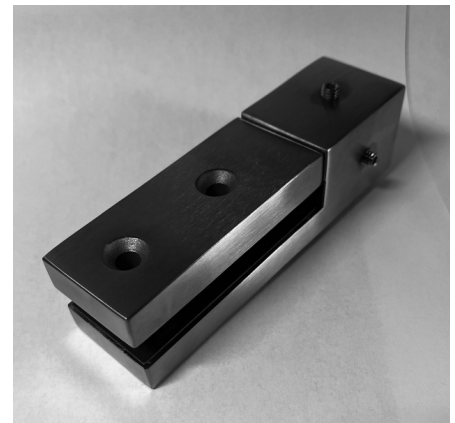
Assemble the base to the glass by inserting the larger female threaded posts covered with grey plastic brushing into the holes in the glass. Face the screw heads away from the front for aesthetic purposes. Thread the smaller portion of the bracket with the (2) M6 x 25mm screws through the plate into the female threads. Tighten to the glass.



Verify the gray nylon heads are fully inserted into the partition glass.

C

Repeat steps (ref above) for the upper supports. Upper supports are similar to the lower supports with the exception that the top has a small female threaded opening.



6 Installing the Dividing Panel

A Insert the rear of the dividing panel into the retaining brackets mounted on the wall, and then place a 50 mm wood block and shins under the front of the panel for support.

B Use a 4D laser level to align the panel perpendicular to the wall.

C Makes sure panel is flush and level.



D Tighten the retaining brackets down onto the panel to secure it in place.

NOTICE! This is a vise-type bracket. Do not overtighten!

E Carefully slide the wooden block away from the dividing panel until the support leg can be set onto the floor pivot.

F Set the dividing panel onto the support.



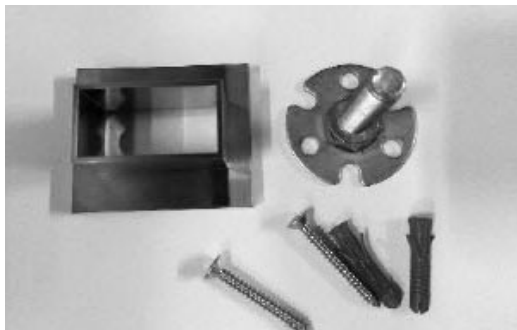
7 Mounting the Headrail

- ☒ No cutting of the headrail should be necessary. The headrail should already be cut to the correct length. Check for specific location labels. Use the dividing panels as a guide.

A Mark the centerline for the dividing panel onto the headrail. Drill a hole on top of the headrail and countersink this hole in the center of the headrail width using a 8.5 mm drill bit.

- ☒ Slide square finished cover over headrail, then assemble round threaded adjusting flange on end of headrail.

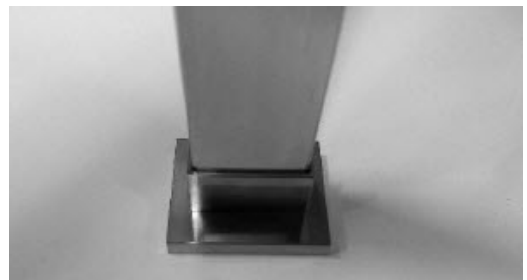
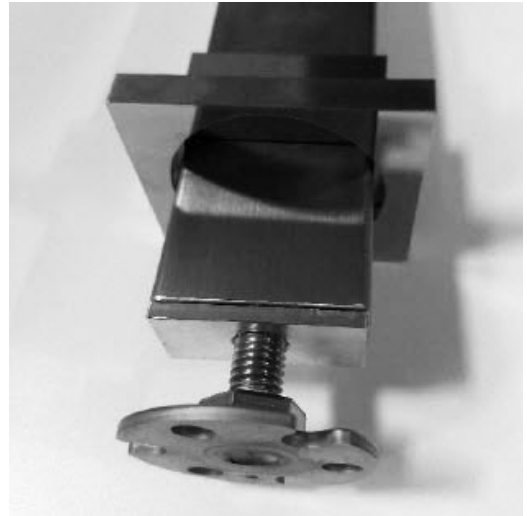
B Place the headrail onto the upper dividing wall holder and secure using M8 x 25 mm screws (screw threads have already been prepared).



C Adjust the headrail horizontally and secure the wall connector to the wall using 6 mm x 30 wall anchors and 5 mm x 38 mm countersunk screws.

- ☒ Center of the headrail equals the centerline of the front wall plus 113 mm.

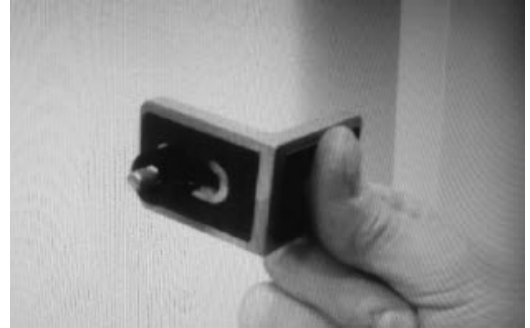
D Cover the round flange with square finish cover, secure with glue to keep in place.



8 Assembling Panels to Pilasters Using L-Brackets

A Place the black nylon sides of the L-brackets against the glass holes on the dividing panel. Do this on both sides of the glass.

☒ Place L-brackets at the top, middle, and bottom of the panel.



B Secure the L-brackets together using M6 x 16 mm flathead screws and flat nuts.



C Attach the pilasters to the end panels using the L-brackets, countersunk 4 pin rosettes (facing the outside of the stall), and M6 x 16 mm screws.

☒ Verify there is an approximate gap of 3 mm between the pilaster and panel.



D Verify the panels and pilasters are level and flush.

9 Installing the Doors

A

Assemble upper and lower hinge assembly to door similar to instructions on page 6. The upper hinge assembly will have a hinge post protruding through the top of the hinge bracket. Face screws inward for aesthetic purposes.



Select the proper upper hinge assembly from the guide shown on next page.

B

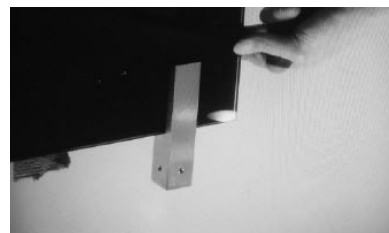
With the head rail in place, lower door in lower floor pivot. This floor pivot should be complete with the base, ball bearing disk, washer, and brass grommet. Secure upper hinge assembly by carefully lowering the upper reach over bracket over the head rail and capture the upper hinge pin in the hole of the reach over bracket. Make sure plastic grommet is in place around pin.

C

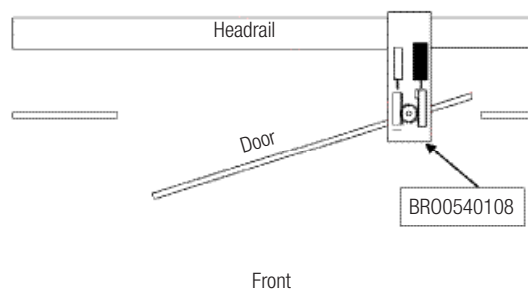
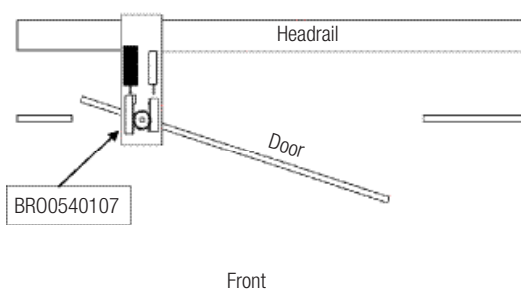
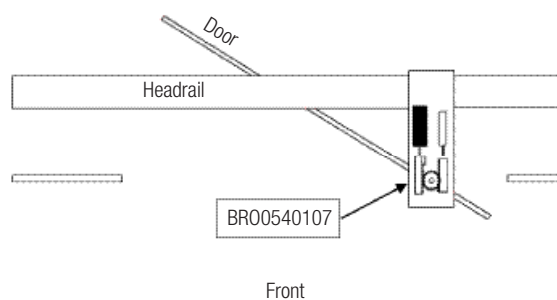
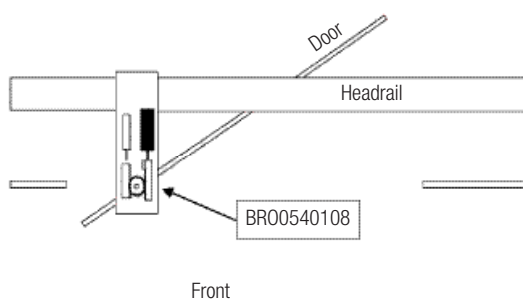
Adjust floor clearance and level the door. Tighten the set screw on back of the reach over bracket, into back of head rail to secure upper assembly, using a 3mm Allen wrench.



This will prevent the doors from falling out of adjustment.

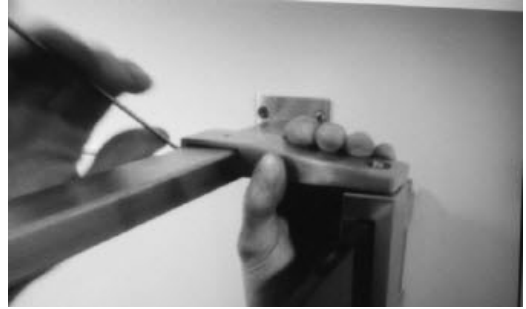


Hydraulic Hinge Guide for Self Closing Doors



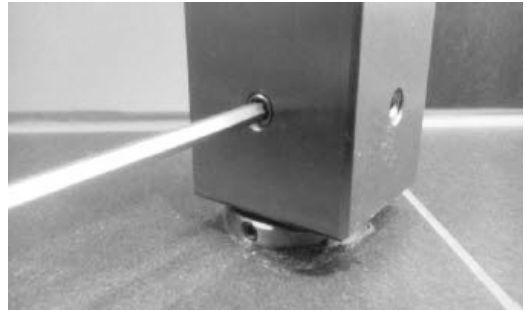
10 Aligning the System

A Adjust the door by unscrewing the setscrew and moving the reach-over bracket back and forth along the headrail.



B Adjust the vertical clearance of the door by adjusting the set screw using a 2mm Allan wrench that is in the collar against the floor. Thread the post up or down, then fully tighten the set screw. The post should be at least one full rotation above base to prevent door from scraping the base.

To adjust the placement of the lower hinge assembly (front/back/left/right) adjust the four set screws using a 3mm Allan wrench. Fully tighten against the large inner brass grommet.



C Adjust the clearance between the door and pilaster by moving the middle pilaster within the long holes of the dividing panel angles.

D Make any fine tune height adjustments using the lower hinge floor pivot. Loosen the setscrew, lift the door slightly, and then twist the upper part of the bearing up or down.

E When the desired door height is obtained, re-tighten the lower hinge floor pivot setscrew.



11 Final Assembly

A Verify that the final adjustments to the system have been made, and then fasten all screw connections. Torque fasteners to 120 NM.

B Use a 4 mm drill bit to drill through the existing hole in the reach-over bracket into the headrail. Secure the reach-over bracket and headrail using a 4 mm x 14 mm rivet.

C Use HB45 adhesive to glue the oval cover plates onto the dividing panel angle brackets and the locking device onto the middle pilaster.

D Use HB-45 adhesive to glue the full length no-site strips to the latch side and hinge side (if needed) of the door.

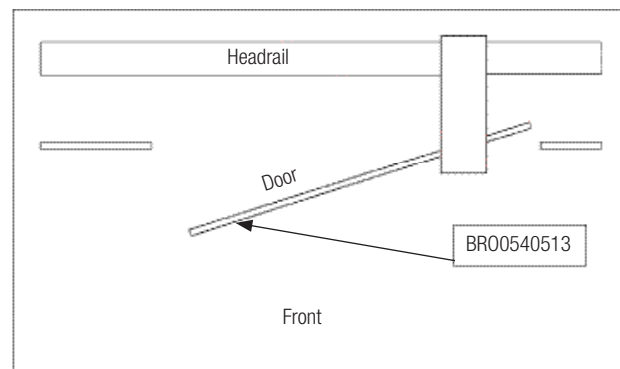
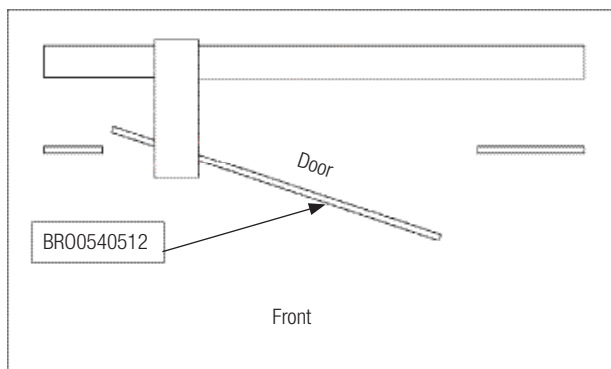
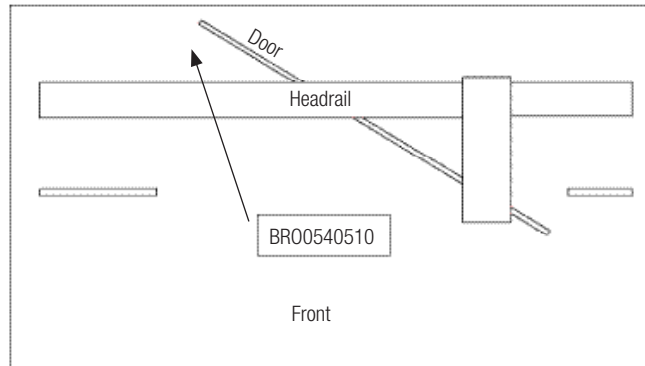
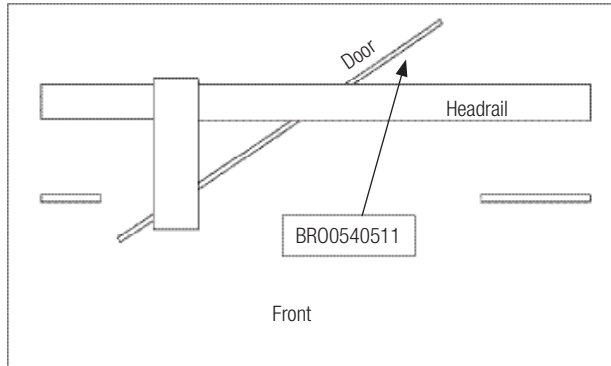
For outswing doors: Glue a full size no-site strip to the inside edge of the pilaster.

E **For inswing doors:** Glue the pre-cut shorter no-site strip on the lower portion of the inside edge of the door, and up against the bottom of the large latch mechanism. Glue the longer pre-cut no-site strip the same way on the upper portion of the inside edge of the door, against the top of the large latch mechanism.

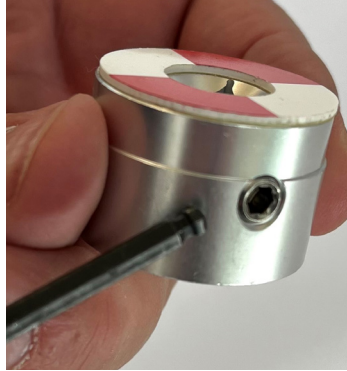
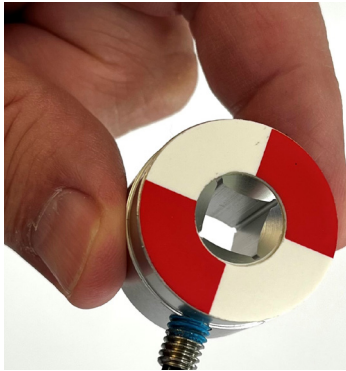


12 Mounting the Door Latch

Locate the proper Lucent Latch kit. Refer to the image below for the proper latch kit number.

Latch Selection Guide

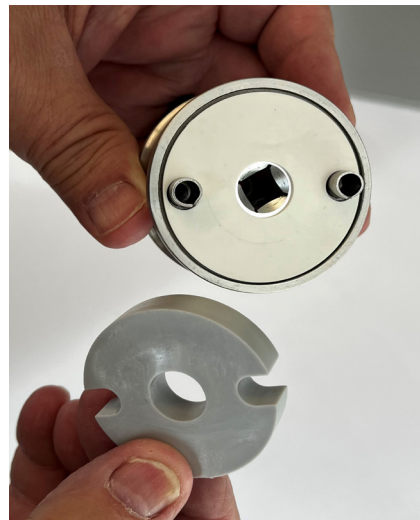
A Insert the small set screw into occupancy indicator. This set screw port should be straddling the line between a white and red field of the occupancy disk. Make sure the set screw is flush with the outside wall of the indicator disk, and that the tip does not protrude into the core of the disk. Use a 3mm Allen wrench.



B Insert the occupancy indicator into the back of the knob with the set screw positioned in line with one of the angled holes. Use the hole that allows the white portion of the occupancy disk to show through the holes in the front of the knob.



C Place the thin white disk and the thick grey spacer disk on the back of the knob assembly, and place on the outside of door, with the three holes in the knob facing down. White should be showing through the holes in the knob.



Attach the latch mechanism to the door.

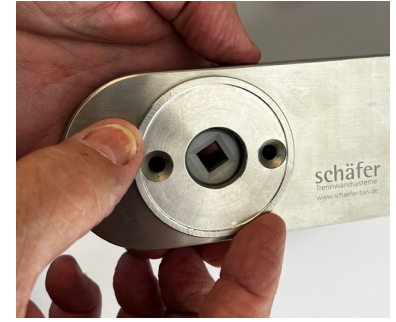
For Inswing Doors

1. Locate the large latch mechanism. Notice the black padded material to be placed against the glass.
2. Place the retaining flange on the front of the latch mechanism, and place this assembly on the other side of the door, on the glass, over the latch opening.
3. Level the large mechanism, and thread the large screws into the back of the flange, through the large latch mechanism, through the door, and into the back of the knob on the other side of the door.
4. Tighten the screws using a T-25 torx wrench.

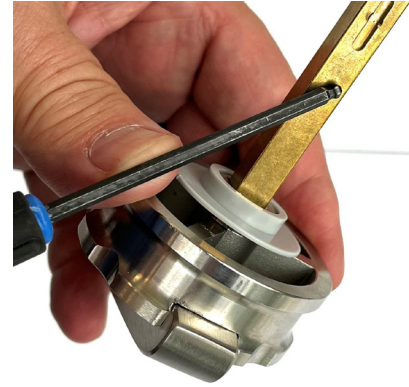
D

For Outswing Doors

1. Locate the large latch mechanism. Notice the blackpadded material to be placed against the glass.
2. Place the thin white disk on the retaining flange and place flange on the inside of door over opening.
3. Place the knob with the three holes facing down against the large mechanism. Place on the outside of door with thick plastic spacer in the door.
4. Level the large mechanism, and thread the large screws through the back of the flange, through the door, through the large mechanism, and into the back of the knob.
5. Tighten the screws using a T-25 torx wrench.



E Locate the groove in the paddle handle brass stem. Align that groove downward, and insert the paddle handle at a 45 deg. angle away from the latch side edge of the door. Make sure the grey plastic “top hat” bushing is in place at base of stem as shown. Assemble the paddle handle into the inside opening in the door. This should be inside the stall. Push all the way in.



F

While keeping pressure against the paddle handle tight against the mechanism, tighten the set screw in the indicator disk through the angled hole found at the bottom of the knob using a 3mm Allen wrench. This is to fix the paddle handle to the latch assembly. In the unlock position, white should show through the knob.

G

Test by rotating the paddle handle back and forth towards the edge of the door and back. This should move the locking latch in and out of the large mechanism, and white should appear in the knob while unlocked, and red while locked.



The strike is to be glued to the pilaster using the HB-45 glue or equivalent. Perform the following only after all adjustments are completed. This should be the last step of the door latch assembly.

H To align properly, open the door and move the handle to the locked position. Slide the strike over the latch, leaving a small even space between the mechanism and the strike. Make sure the strike is in line with the mechanism. Carefully apply glue to the back side of the strike and slowly close the door, making sure the glue on the strike makes good contact with the pilaster. Carefully hold in this position for a couple minutes, making sure the strike does not move. Unlock the door, swing the door away, and carefully clamp the strike in place for full curing of the glue. Make sure the strike does not move.



IMPORTANT: A 4mm L-wrench can be used as an emergency egress tool to unlock the latch from the outside of the stall.



13 Mounting Hooks & Bumpers

A Measure and then mark the location for the hook on the inside of the door

B Attach the hook to the door (inside) using HB45 construction adhesive.

C Attach the door bumper to the inside pilaster using HB45 construction adhesive.

D Use a strip of adhesive tape to hold the door bumper in place until the adhesive dries.



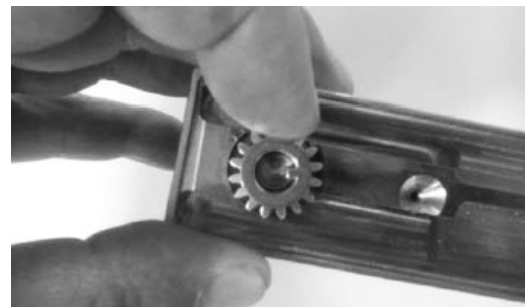
Refer to "Hydraulic Hinge Guide for Self Closing Doors" on page 10.

14 Assembling the Self-Closing, Hydraulic Hinge Assembly

The self-closing hinge assembly is available for left-hand and right-hand closing doors. Verify the correct unit is being used for the correct swing configuration.



A Place the gear into the self-closing mechanism by aligning it into the notch.



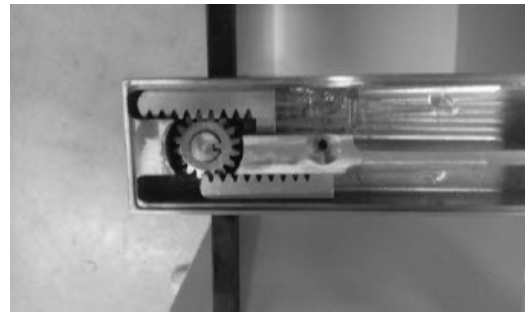
- B** Grease the lower area of the hydraulic assembly.



- C** Close the door and set the left straight gear assembly into the hinge assembly compartment. Push the straight gear assembly forward and open as wide as possible as shown.



- D** Set the right straight gear assembly into the hinge assembly compartment. Push the gear assembly backward and open as wide as possible as shown.



- E** Insert the black closing cylinder into the larger section of the hinge assembly compartment as shown.



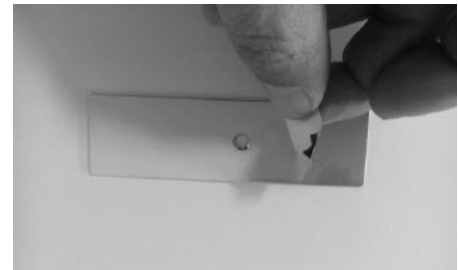
F Open the door, and then place the white break cylinder into the smaller section of the hinge assembly compartment, giving the door a slow-close feature.



G To adjust the door closing speed, place a solid piece of scrap behind the white brake cylinder to bring the cylinder forward in the hinge until the desired door closing speed is obtained.



































































H Remove the protective foil from the stainless steel cover plates.



I Attach the stainless steel cover plates to the hinge assembly using M6 x 25 mm screws.



FRACTION-DECIMAL CONVERSION CHART

INCHES		MILLIMETERS		INCHES		MILLIMETERS	
	 $\frac{1}{64}$	.015625	.3969		 $\frac{33}{64}$	.515625	13.096
		.03125	.7938			.53125	13.493
	 $\frac{3}{64}$	.046875	1.1906		 $\frac{35}{64}$	.546875	13.890
		.0625	1.5875			.5625	14.287
	 $\frac{5}{64}$	.078125	1.9844		 $\frac{37}{64}$	.578125	14.684
		.09375	2.3813			.59375	15.081
	 $\frac{7}{64}$	.109375	2.7781		 $\frac{39}{64}$	.609375	15.478
		.125	3.1750			.625	15.875
	 $\frac{9}{64}$	.140625	3.5719		 $\frac{41}{64}$	.640625	16.271
		.15625	3.9688			.65625	16.668
	 $\frac{11}{64}$	.171875	4.3656		 $\frac{43}{64}$	.671875	17.065
		.1875	4.7625			.6875	17.462
	 $\frac{13}{64}$	.203125	5.1594		 $\frac{45}{64}$	.703125	17.859
		.21875	5.5563			.71875	18.256
	 $\frac{15}{64}$	.234375	5.9531		 $\frac{47}{64}$	.734375	18.653
		.250	6.3500			.750	19.050
	 $\frac{17}{64}$	.265625	6.7469		 $\frac{49}{64}$	.765625	19.447
		.28125	7.1438			.78125	19.843
	 $\frac{19}{64}$	.296875	7.5406		 $\frac{51}{64}$	.796875	20.240
		.3125	7.9375			.8125	20.6375
	 $\frac{21}{64}$	.328125	8.3344		 $\frac{53}{64}$	.828125	21.0345
		.34375	8.7313			.84375	21.431
	 $\frac{23}{64}$	.359375	9.1282		 $\frac{55}{64}$	.859375	21.8282
		.375	9.5250			.875	22.2251
	 $\frac{25}{64}$	.390625	9.9219		 $\frac{57}{64}$	.890625	22.6220
		.40625	10.3188			.90625	23.0188
	 $\frac{27}{64}$	.421875	10.7157		 $\frac{59}{64}$	.921875	23.4157
		.4375	11.1125			.9375	23.8126
	 $\frac{29}{64}$	.453125	11.5094		 $\frac{61}{64}$	.953125	24.2095
		.46875	11.9063			.96875	24.6063
	 $\frac{31}{64}$	.484375	12.3032		 $\frac{63}{64}$	.984375	25.0032
		.500	12.7001			1.000	25.4001

Designed by NTICKER