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SERVICE INSTRUCTIONS

FOR THE ATWOOD RV ENTRANCE DOOR

**A step by step guide for removal and replacement of serviceable
components on all styles and models of Atwood Entrydoors**

EXCEL™ WINDOW AND DOOR SYSTEMS

Document Part Number: C00004

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SERVICE INSTRUCTIONS FOR THE ATWOOD ENTRANCE DOOR

ENTRYDOOR SERVICE INSTRUCTIONS

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Created January 13, 2000

Updated 4/5/2011

Clamp Frame Service

Tools required: Phillips screwdriver, pry-bar, soft-faced mallet

Parts required: Clamp frame, color-matched screws

Removal and Installation

1. Open main door and latch screen door to the main door.
2. Loosen and remove the screws around the clamp frame on the interior of the door.
3. Remove the old clamp frame.
4. Start (1) screw through clamp frame into the outer frame at the top. **DO NOT TIGHTEN AT THIS TIME!**
5. Start screws through clamp frame into the outer frame on the hinge side. **DO NOT TIGHTEN AT THIS TIME!**
6. Start screws through clamp frame into the outer frame on the latch side. **DO NOT TIGHTEN AT THIS TIME!**
7. Start and secure screws through the clamp frame into the coach sidewall at the latch side, then the hinge side.
8. Secure clamp frame to mounting frame, **tighten** screws alternately on hinge side and latch side and then top, to pull door in evenly.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Slide Panel Service

Tools required: none

Parts required: New Slide Panel

Removal and Installation

1. The slide panel is replaced by flexing the panel to remove it from the rail grooves.
Note: It may be necessary to remove some of the slide panel material from the trailing edge to allow the new panel to flex into the grooves.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

End Panel Service

Tools required: Phillips screwdriver,

Parts required: (1) End Panel

Removal and Installation

1. Open main door and access the old end panel on the screendoor.
2. Remove (4) screws from old end panel. Set screws aside for re-use.
3. Remove and discard the old end panel.
4. Align new end panel with the existing screw holes and attach with the (4) screws.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Backer Panel Service

Tools required: T-20 Torx bit screwdriver,

Parts required: (1) Backer Panel

Removal and Installation

1. Open main door and latch screendoor to the coach.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Loosen the inner handle and remove the plastic backer panel by rotating the panel over the inside handle.
4. Install the plastic backer panel. Secure the inner handle to the outside handle with the (3) handle screws.
5. Check for proper operation of the outer handle.
6. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
7. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000
Updated 4/5/2011

Inner Panel Service

Tools required: Phillips screwdriver

Parts required: (1) Inner Panel, (46) Velcro pieces

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws and bumpers around the perimeter (screws on later models). Retain screws for re-use. Set panel aside. If panel was screwed on or is being replaced with a screwed on panel, skip to Step #6.
3. *For Velcro Attached Panels Only:* Only one-half of the Velcro should remain on the doorframe.
4. *For Velcro Attached Panels Only:* Install the new Velcro onto the existing Velcro on the doorframe. Remove the release liner from the new Velcro.
5. *For Velcro Attached Panels Only:* Clean the inside surface of the inner panel to remove dust and oils that may prevent the Velcro adhesive from sticking. Use a cleaner such as 3M Primer 94 or equivalent. Follow all instructions and precautions furnished by the product manufacturer.
6. Lay the old inner panel onto the new inner panel. Align the edges of the panels and transfer the location of the screen latch striker holes.
7. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Bumpers should be located at the top and bottom latch side panel screw recesses. Over tightening will cause the panel to buckle.
8. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Door Bottom Sweeper Service

Tools required: Phillips screwdriver, Marking pen

Parts required: Door Bottom Sweeper

Removal and Installation

1. Open the main door and screendoor.
2. Locate the Door Bottom Sweeper Mark the current location of the sweeper on the screendoor. Remove the attachment screws. Retain the screws for re-use.
3. Locate the new Door Bottom Sweeper on the location marks on the screendoor.
4. Attach the Door Bottom Sweeper to the screendoor with the screws from step 2.
5. Close the screendoor to the coach and check the alignment of the sweeper to the threshold. Loosen the screws and adjust as necessary to close the gap.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Screen Latch Assembly Service

Tools required: 6" long Phillips screwdriver, Screen spline tool, Utility Knife.

Parts required: (1) Screen Latch Assembly, 12-ft. screen spline, 42" x 24" fiberglass screen

Removal and Installation

1. Open main door and access the old screen latch assembly on the screendoor.
2. Remove the screen spline and screen from the lower half of the screendoor and discard.
3. Remove the (2) screws from the front of the latch assembly. Remove the (2) screws from the top and side of the latch assembly. Remove the latch assembly and discard. Retain screws for re-use.
4. Install the latch assembly and (4) screws.

Note:

Do not over tighten the screws, as this will cause the latch to bind.

5. Install new screen and spline. Trim and discard excess screen and spline.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Screendoor Service

Tools required: Phillips screwdriver

Parts required: 272-041968 #10 x 7/16 Pan head Taptite Screws.

Removal and Installation

1. Open main door and close and latch screen door.
2. Remove screws from the hinges to the screendoor. Discard screws.
3. Swing the hinge leaves away and remove the screendoor.
4. Install the new screendoor into the opening. Align the screendoor hinges.
5. Install the new screws through the hinges into the screendoor; **do not tighten.**
6. Center the new screendoor into the opening and tighten the hinge screws.
7. Release the screendoor from the coach and latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 14, 2000

Updated 4/5/2011

Window Service

Tools required: Phillips screwdriver.

Parts required: (1) Window assembly, 10 feet of 154-041549 Foam core butyl cord, window cleaner.

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove the screws fastening the window assembly to the doorframe. Retain screws for re-use.
4. Push the window out of the door. Cut the stringing butyl if necessary.
5. Clean the remaining butyl from the surface of the doorframe.
6. Lay the new window face down on a non-marking surface. Apply the new butyl cord to the window flange. Position the butyl cord in the middle to the outside edge of the flange. If the cord is too much inboard, the butyl will not seal the window properly.
7. Install the window into the door. Center the window in the opening. Fasten the window through the top holes first.
8. Install the remaining screws around the perimeter of the window opening. Clean any butyl that seeped out during tightening.
9. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Overtightening will cause the panel to buckle.
10. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.
11. Clean any butyl seal that seeped out during tightening.
12. Clean the glass with commonly available glass cleaner.

Flat Rate = 1.0 hour

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Created 7/24/2008
Updated 4/5/2011

Door Hinge Service (Page 1 of 2)

This covers specifically replacing old p/n 211-041740 with 490487 new style hinge

Note: To prevent damage to the remaining hinges, only (1) hinge at a time may be removed from the door.

Tools required: Phillips screwdriver, (2) scratch awls, door support

Parts required: (1) 490487 Hinge, (9) 272-041968 #10 x 7/16 Pan head Taptite Screw.

Removal and Installation

1. Open main door and close and latch screen door. Support the main door to prevent it from sagging once a hinge is removed.
2. Remove screws from the intended hinge to the screendoor. Discard screws.
3. Open and latch screendoor to main door.
4. Remove the top (2) screws on the door side of the intended hinge. Swing the leaf away from the door. Reinstall (1) screw into the hinge hole on the door.

Note:

This will prevent the tapping plate inside the door from dropping after all of the screws are removed.

CAUTION:

If the tapping plate on the door side is dropped, removal of the inside panel and/or removal of the window assembly will be necessary to retrieve the tapping plate and properly install the hinge.

5. Remove the remaining (2) screws on the door side of the intended hinge. Discard the screws.
6. Remove the top screw from the intended hinge on the mounting frame side. Discard the screw.

Note:

Insert the scratch awl into the hole to prevent the tapping plate from dropping after all of the screws are removed.

CAUTION:

If the tapping plate on the mounting frame side is dropped, Removal of the door from the coach will be necessary to retrieve the tapping plate and properly install the hinge.

7. Remove the remaining (3) screws from the intended hinge. Discard the (2) short screws.

Note:

The bottom screw on the hinge is fastened into the sidewall. Retain this longer screw for re-installation.

8. Carefully pry the hinge away from the mounting frame while retaining the scratch awl in the upper hole. Insert the second scratch awl into a middle hinge hole underneath the hinge leaf, then the first scratch awl may be removed.

Note:

Inserting the second scratch awl into the middle hole, underneath the hinge leaf, is to prevent the tapping plate from dropping after all of the screws are removed.

9. Release the screendoor from the main door and close and latch the screendoor to the coach and remove the hinge.
10. Modify hinge notch in outer mount frame as follows: (SEE SKETCH BELOW)
 - 10.1. Increase length of notch from 7.62" to 8.75" by removing 0.56" for each end of the notch
 - 10.2. Bevel the base of the notch per sketch BELOW
 - 10.2.1. Bevel begins 0.26" back from the surface and is 0.13" down from the top edge of the notch

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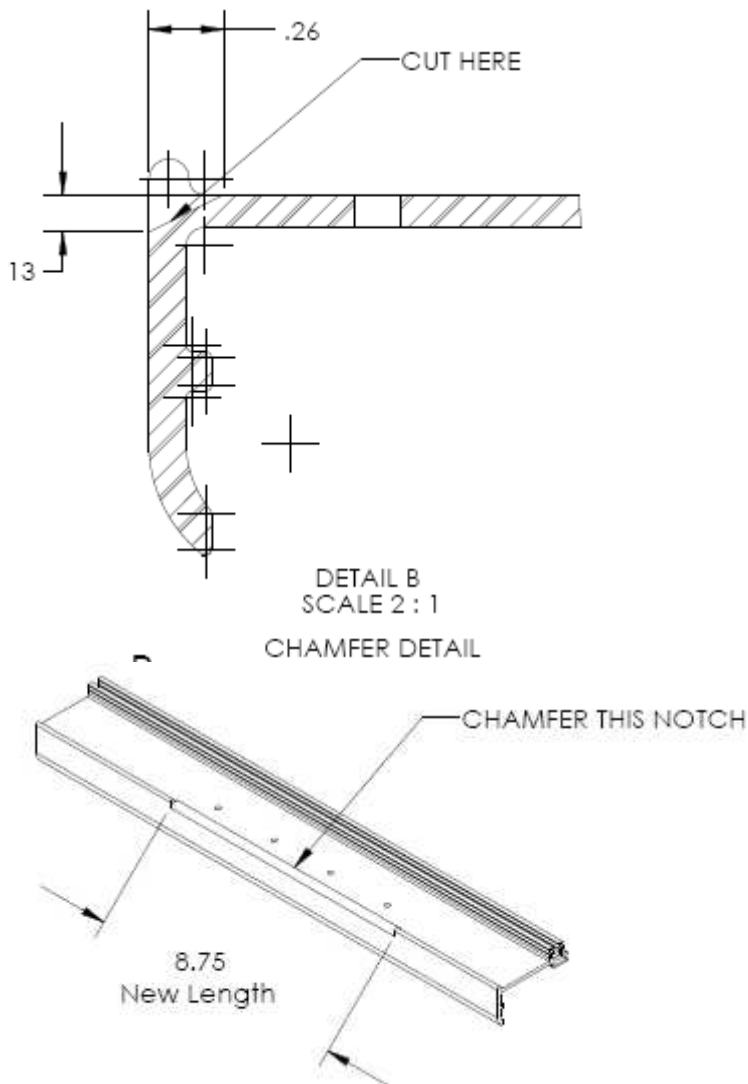
Created 7/24/2008
Updated 4/5/2011

Door Hinge Service (Page 2 of 2)

11. Replace hinge with screws-Torque to 40 in/lb maximum to avoid stripping out the aluminum tapping plate
12. Repeat for all hinges on the door
 - 12.1. Old style and new style hinges cannot be intermixed on a door
13. Once all hinges have been reinstalled. Test door and verify all hinge screws are tight
14. **Check tightness of hinge screws after test driving**

Note:

Use the new hinge screws provided in the service kit.



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Created January 13, 2000

Updated 4/5/2011

Door Striker Bolt Service

Tools required: Ft/Lb Torque wrench, 5/8" socket, marking pen.

Parts required: 248-041274 or 490780 Striker Bolt-Long

Removal and Installation

1. Open main door and latch screen door to the main door.
2. Using the marking pen, mark the position of the current striker bolt by tracing a line around the striker washer onto the mounting frame
3. Remove and discard the old striker bolt.
4. Install the new striker bolt. Line-up the striker washer to the traced line on the mounting frame. Hand-tighten the striker bolt.
5. Torque the striker bolt to 35 ft/lb.
6. Close the door and check for proper operation. If adjustment is needed, the striker bolt can be loosened and moved up/down or inboard/outboard as necessary to achieve desired latch effort and sealing. RE-torque the striker bolt to 35 ft/lbs.
7. The striker bolt should be adjusted to latch within +/- 1/32" vertically and adjusted horizontally such that the door outer panel is flush to +1/8" under flush of the outer mounting frame.

Adjustment

1. The striker bolt should be adjusted to latch within +/- 1/32" vertically of the center of the latch. It should be adjusted horizontally such that the door outer panel is flush to +1/8" under flush of the outer mounting frame.
2. Loosen the striker bolt and partially close the door. Align the latch center with the bolt. Snug the bolt and close the door to check for desired alignment.
3. Correct alignment will prevent the door from ramping up or down when closing.
4. When desired alignment is achieved, torque the striker bolt to 35 ft/lb.

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Created January 18, 2000

Updated 4/5/2011

Door Check Service

Tools required: Phillips screwdriver, 7/16" Box end wrench, Loctite 242, 3/8" Box end wrench, 5/32 Hex wrench, Soft Faced Mallet

Parts required: (1) Door Check Assy

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove the pivot pin and clip from pivot bracket in door jam and set aside for re-use.
4. Remove Shoulder Bolt-Short and Nylok Hex Nut from slide bar guide bracket located inside the door.
5. Support the slide bar and press-out the stop pin from slide bar.

Note:

Be careful not to bend slide bar

6. Remove the rubber bumper and bumper stop.
7. Move door to fully open. Use a soft-faced hammer to tap the end of the slide bar through the door check. Remove the slide bar.
8. Remove (2) screws and hex nuts from the door check body. Retain the screws and nuts for re-use.
9. Note the position of the door check body, then remove it from the door.
10. Install the new door check body into the door so the screw grooves in the door check body line up with the holes on the mounting bracket.
11. Fasten the door check body to the door using the (2) screws and (2) nuts from step 8. Tighten securely.

Note:

Apply Loctite 242 to the threads of the screws before installing the nuts.

12. Open the door fully. Insert the small end of the slide bar through the hole in the edge of the door and into the door check body. Care should be taken to make sure slide bar slides between the rollers in the door check body. Use a soft-faced hammer to lightly tap the slide bar through the door check body until the groove in the slide bar lines up with the hole in the guide bracket on the door.
13. Install the rubber bumper and the bumper stop onto the slide bar. Position the bumper and stop between the door check mounting bracket and the hole in the slide bar.
14. Support the slide bar and install the stop pin through the hole in the slide bar.

Note:

Be careful not to bend slide bar

15. Install the shoulder bolt-short through the slot in the slide bar and fasten to the hole in the guide bracket on the door with the Nylok hex nut.
16. Line up the link end of the slide bar with its corresponding hole in the pivot bracket on the mounting frame. Install the pivot pin hardware through the hole and fasten with e-clip.

Note:

When installing the pivot pin hardware into the pivot bracket and door check link, resistance will be encountered, gently tap the pin through the link and secure. Do not over tighten as this will result in binding of the door check.

17. Adjust the door check resistance by equally tightening the bolts on the top and bottom of the door check body. A properly adjusted door check will have approximately 15 lbs. of resistance measured at the edge of the door. The check may be set slightly higher or lower to suit the individual need.
18. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
19. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

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Created January 17, 2000

Updated 4/5/2011

Threshold Seal Service

Tools required: Isopropyl alcohol

Parts required: (1) Threshold seal

Removal and Installation

- 1) Open main door and latch screen door to the coach.
- 2) Locate and remove the old threshold seal at the bottom of the door.
- 3) Clean the bottom edge of the door with isopropyl alcohol.
- 4) Peel away approximately 2" of the release liner from the tape on the seal, align the end of the new seal with the edge of the door, align the inside lip of the new seal with the bottom of the door, press the seal to the door.
- 5) At the opposite end of the seal, align the end of the seal with the edge of the door. Cut the seal to length, as necessary, and remove the rest of the liner and press the seal into place.
- 6) Close the door and check for proper operation of the seal. Open the door and raise or lower the seal as necessary.

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Created January 13, 2000

Updated 4/5/2011

Main Door Seal Service

Tools required: Phillips screwdriver, pry-bar, soft-faced mallet, water, dish-soap

Parts required: Door seal, black sealant

Removal and Installation

1. Open main door and latch screen door to the main door.
2. Loosen, do not remove, screws around the clamp frame on the interior of the door.
3. Remove the (2) screws retaining the screen latch striker to the mounting frame. Save these screws and striker for re-installation.
4. Remove the old seal from the door. Discard the seal.
5. Using the pry-bar, gently pry the clamp frame away from the mounting frame around the perimeter of the door. This will open the channel for the seal to be installed.
6. Mix dish-soap and water to form a "sudsy" mixture. Apply this to the mounting frame and the inside of the new seal to aid in installation.
7. Install the new seal by starting at the bottom of the door. Push the seal onto the aluminum retention legs and between the clamp frame and mounting frame.
8. Work the seal in around the perimeter of the door.

Note:

Do not stretch the seal as it is being installed. Stretching could cause seal failure.

9. Use a soft-faced mallet to tap the seal into position. Once properly installed the seal should resist pulling away from the mounting frame. Cut seal to proper length once all, but the last few inches, of the seal is in place. After cutting, tap the remaining seal into place.
10. Tighten the screws around the clamp frame on the interior of the door.
11. Clean the excessive soapy water from the mounting frame and seal.
12. Release the screendoor from the main door and close the screendoor to the coach. Mark the position of the latch bolt on the new seal.
13. Open the screendoor and center the latch striker on the marked position. Fasten the striker using (2) saved screws from step 3.
14. Close the screendoor and check for proper latch operation. If needed remove and re-install latch striker.

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Created January 13, 2000

Updated 4/5/2011

Outer Door Panel Service (split lock style doors)

Tools required: Power drill, 3/8" drill bit, 3/16" drill bit scratch awl, Phillips screwdriver, Pop rivet gun.

Parts required: (1) Outer Panel, (21) 356-062424 Pop rivet.

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle bracket to the outside handle. Retain screws for re-use.
4. Remove the lock rod fastened to the outer handle. Retain the rod clip for re-use.
5. Remove the outer handle.
6. Remove the pivot pin hardware retaining the door check to the mounting frame. Save the pivot pin hardware for re-use.
7. Locate the pop rivets that retain the outer panel around the perimeter of the door. Use a 3/8" drill bit to drill through the heads of all the pop rivets.

Note:

Use caution when drilling. Do not drill through the doorframe at this step.

8. Pry the outer panel away from the door, starting at the bottom. Remove the outer panel.
9. Use a 3/16" drill bit to drill through the doorframe and remove the remainder of each pop rivet.
10. Install the new outer panel. Slide the top of the panel underneath the window flange.
11. Align the new panel into position using the scratch awl.
12. Install the (1) pop rivet on the bottom of the door first, then install the remaining pop rivets.
13. Align the door check to the mounting frame and re-install the pivot pin hardware.

Note for older style pivot pins (shoulder bolt):

Do not over-tighten the nut. Over-tightening can cause the check to bind.

14. Install the outer handle. Align the lock rod with the hole on the outer handle and install the rod clip.
15. Install the inner handle bracket to the outside handle. Fasten with the (3) screws.

Note:

Align the outer handle with the bracket before tightening.

Do not over-tighten the screws. Over-tightening can cause the outer handle to bind.

16. Check for proper operation of the outer handle. Adjust the latch rod as necessary.
17. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
18. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

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Created January 13, 2005

Updated 4/5/2011

Outer Door Panel Service (sandwich style doors)

*Tools required: Power drill, 3/8" drill bit, 3/16" drill bit, scratch awl, Phillips screwdriver, Pop rivet gun, **Caulking gun***

Parts required: (1) Outer Panel, (21) 356-062424 Pop rivets, (1) Access Hole Cover Sticker

Materials: Elastic Bonding Material (example; RTV Silicone or equivalent)

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. **Loosen the screws that attach the horizontal brace to the bottom of the window frame but do not completely remove. Note: Not all doors were constructed with this method prior to 2004-05 model year.**
4. Remove (3) screws fastening the inner handle to the outside handle. Retain screws for re-use.
5. Remove the outer handle.
6. Remove the pivot pin retaining the door check to the mounting frame. Save the pin hardware for re-use.
7. Locate the pop rivets that retain the outer panel around the perimeter of the door. Use a 3/8" drill bit to drill through the heads of all the pop rivets.

Note:

Use caution when drilling. Do not drill through the doorframe at this step.

8. **Carefully remove** the outer panel from the door, starting at the bottom, and sliding the panel downward to pass the edge of the window frame. *Note: If the panel is difficult to slide below the window without damage, further loosen the screws holding the window in place.*
9. Use a 3/16" drill bit to drill through the doorframe and remove the remainder of each pop rivet.
10. **Beginning 8" below the top edge of the outer panel working down directly in the center of the panel apply your chosen sealant in three to five places. Applying the sealant in proportions that will create a 3-4" diameter when the panel is reinstalled will create adequate coverage.**
11. Reinstall the outer panel. Slide the top of the panel underneath the window flange.
12. Align the new panel into position using the scratch awl.
13. Install the (1) pop rivet on the bottom of the door first, then install the remaining pop rivets.
14. **Pop rivets need to be color matched with the Door exterior. Atwood does not supply pre-painted rivets.**
15. Align the door check to the mounting frame and re-install the pivot pin hardware.

Note for older style pivot pins (shoulder bolt):

Do not over-tighten the nut. Over-tightening can cause the check to bind.

16. Install the outer handle. Install the deadbolt portion first, then press handle into place.
17. Install the inner handle bracket to the outside handle. Fasten with the (3) handle screws.

Note:

Align the outer handle with the inside deadbolt lever before tightening. The outside handle lever should be its closed position.

18. Check for proper operation of the outer handle. Adjust the linkage through the access hole on the side of the door by following these steps:
 - 18.1. Close the rotary lock.
 - 18.2. Move the inside handle lock lever into the "LOCKED" position.
 - 18.3. Pull open the outside handle and hold, tighten the Nyloc hex nut until the rotary lock opens.
 - 18.4. Turn the Nyloc hex nut (1 to 1-1/2) complete turn counter-clockwise to complete the adjustment.
 - 18.5. **Unlock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will unlatch when the outside or inside handles are actuated.
 - 18.6. **Lock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will not unlatch when the outside or inside handles are actuated.
19. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
20. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.
21. Install a new Access Hole Cover Sticker to the edge of the do

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Page 1 of 2

Rotary Lock Service (sandwich style doors)

Tools required: 5/32" Hex wrench impact socket, Impact wrench, Phillips screwdriver, 7/16" nut driver, T-20 Torx bit, Ft/Lb Torque wrench.

Parts required: (1) Rotary Lock, (3) 268-042096 Flat Head Rotary Lock screw, Access Hole Cover Sticker

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle to the outside handle. Retain screws for re-use.
4. Remove the outer handle.
5. Remove the 1/4-20 nut from the latch linkage. Access the nut by removing the cover from the access hole on the edge of the door. Retain the nut for re-use. Remove the inner handle and plastic backer panel.
6. Using the impact wrench and the 5/32" Hex wrench impact socket, remove the (3) screws fastening the rotary lock to the door. Discard the screws.
7. To remove the rotary lock from the door follow these steps:

(See page 2 Illustration)

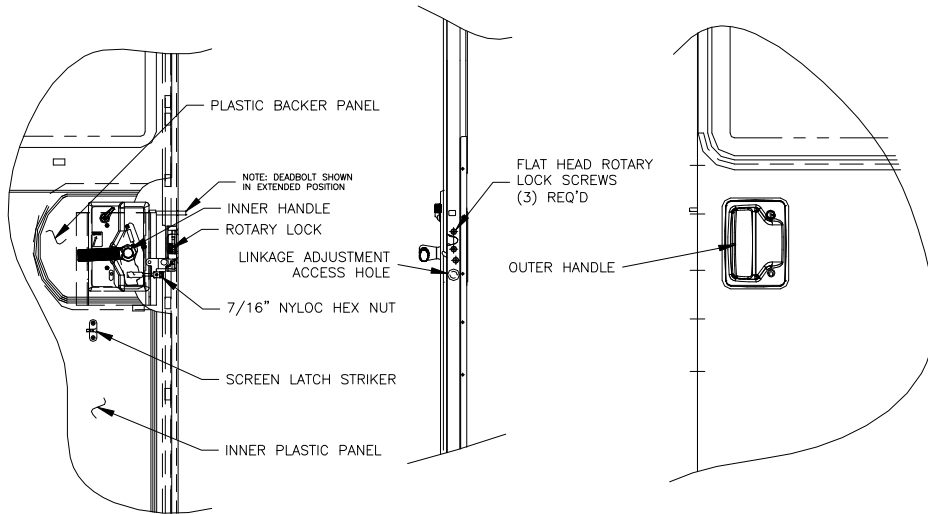
- 7.1. Slide the rotary lock out of the channel of the door.
- 7.2. Rotate the top of the rotary lock away from the door.
- 7.3. With the linkage protruding into the handle opening, rotate the side for the rotary lock up and out of the door.
8. Reverse the above steps to install the new rotary lock.
9. Fasten the new rotary lock using (3) the new flat head screws. Torque to 14 ft/lbs.
10. Install the outer handle. Install the deadbolt portion first, then press handle into place.
11. Install the plastic backer panel and install the inner handle linkage through the rotary lock. Fasten with the 1/4-20 Nylok hex nut. Secure the inner handle to the outside handle with the (3) handle screws.

Note:

Align the outer handle with the inside deadbolt lever before tightening. The outside handle lever should be its closed position.

12. Check for proper operation of the outer handle. Adjust the linkage through the access hole on the side of the door by following these steps:
 - 12.1. Close the rotary lock.
 - 12.2. Move the inside handle lock lever into the "LOCKED" position.
 - 12.3. Pull open the inside handle and hold, tighten the Nylok hex nut until the rotary lock opens.
 - 12.4. Turn the Nylok hex nut 1 1/4 - 1 1/2 turns counter-clockwise to complete the adjustment.
 - 12.5. **Unlock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will unlatch when the outside or inside handles are actuated.
 - 12.6. **Lock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will not unlatch when the outside or inside handles are actuated.
13. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
14. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.
15. Install a new Access Hole Cover Sticker to the edge of the door.

Rotary Lock Service (sandwich style doors)



SERVICE INSTRUCTIONS

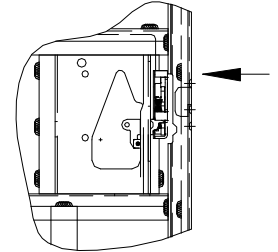
ROTARY LOCK REPLACEMENT

REVISED August 3, 2000

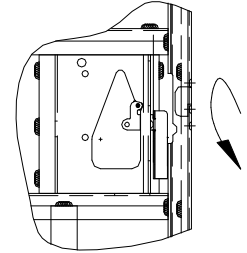
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Page 2 of 2

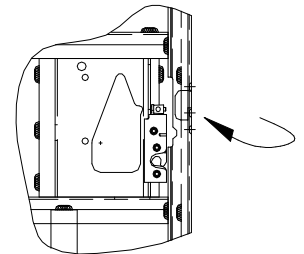
ROTARY LOCK REMOVAL STEPS



STEP 1



STEP 2



STEP 3

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Rotary Lock Service (split-lock style doors)

Tools required: 5/32" Hex wrench impact socket, Impact wrench, Phillips screwdriver, T-20 Torx bit, Ft/Lb Torque wrench.

Parts required: (1) Rotary Lock, (3) 268-042096 Flat Head Rotary Lock screw.

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle to the door. Retain screws for re-use.
4. Remove the plastic backer panel.
5. Using the impact wrench and the 5/32" Hex wrench impact socket, remove the (3) screws fastening the rotary lock to the door. Discard the screws.
6. To remove the rotary lock from the door follow these steps:
 - 6.1. Slide the linkage away from the edge of the door.
 - 6.2. Slide the rotary lock out of the channel of the door.
 - 6.3. Rotate the rotary lock up and away from the door.
7. Reverse the above steps to install the new rotary lock.
8. Fasten the new rotary lock using (3) the new flat head screws. Torque to 14 ft/lbs.

Note:

The (2) spacers between the rotary lock and the linkage plate must be in place before securing the screws.

9. Install the plastic backer panel behind the inner handle. Secure the inner handle to the door with the (3) handle screws.
10. Check for proper operation of the inner handle.
11. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
12. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Inside Handle Service (split lock style doors)

Tools required: Phillips screwdriver, 7/16" nut driver, T-20 Torx bit

Parts required: (1) Inside Handle, 1/4-20 Nylok Hex Nut

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle to the door. Retain screws for re-use.
4. Remove the 1/4-20 Nylok nut from the latch linkage. Access the nut through the access hole on the left edge of the inside handle-mounting bracket. Discard the nut.
5. Remove the lock rod and clip from the inner handle. Retain the rod clip for re-use.
6. Remove the inner handle and plastic backer panel.
7. Install the plastic backer panel and install the inner handle linkage through the rotary lock. Align the lock rod with the hole on the inside handle and install the rod clip.
8. Insert the threaded latch rod through the collar on the inside handle. Fasten with a new 1/4-20 Nylok hex nut.
9. Check for proper operation of the inside handle. Adjust the latch rod as necessary.
10. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
11. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Inside Handle Service (sandwich style doors)

Tools required: Phillips screwdriver, 7/16" nut driver, T-20 Torx bit

Parts required: (1) Inside Handle, (1) Access Hole Cover Sticker

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle to the outside handle. Retain screws for re-use.
4. Remove the ¼-20 nut from the latch linkage. Access the nut by removing the cover from the access hole on the edge of the door. Discard the nut. Remove the inner handle and plastic backer panel.
5. Install the plastic backer panel and install the inner handle linkage through the rotary lock. Fasten with the ¼-20 Nyloc hex nut. Secure the inner handle to the outside handle with the (3) handle screws.

Note:

Align the outer handle with the inside deadbolt lever before tightening. The outside handle lever should be its closed position.

6. Check for proper operation of the outer handle. Adjust the linkage through the access hole on the side of the door by following these steps:
 - 6.1. Close the rotary lock.
 - 6.2. Move the inside handle lock lever into the "**LOCKED**" position.
 - 6.3. Pull open the inside handle and hold, tighten the Nyloc hex nut until the rotary lock opens.
 - 6.4. Turn the Nyloc hex nut 1 ¼ - 1 ½ turns counter-clockwise to complete the adjustment.
 - 6.5. **Unlock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will unlatch when the outside or inside handles are actuated.
 - 6.6. **Lock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will not unlatch when the outside or inside handles are actuated.
7. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
8. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.
9. Install a new Access Hole Cover Sticker to the edge of the door.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Outside Handle Service (sandwich style doors)

Tools required: Phillips screwdriver, 7/16" nut driver, T-20 Torx bit

Parts required: (1) Outer Handle, (1) Access hole Cover Sticker

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the inner handle to the outside handle. Retain screws for re-use.
4. Remove the outer handle.
5. Install the new outer handle. Install the deadbolt portion first, then press handle into place.
6. Secure the inner handle to the outside handle with the (3) handle screws.

Note:

Align the outer handle with the inside deadbolt lever before tightening. The outside handle lever should be its closed position.

7. Check for proper operation of the outer handle. Adjust the linkage through the access hole on the side of the door by following these steps:
 - 7.1. Close the rotary lock.
 - 7.2. Move the inside handle lock lever into the "**LOCKED**" position.
 - 7.3. Pull open the inside handle and hold, tighten the Nyloc hex nut until the rotary lock opens.
 - 7.4. Turn the Nyloc hex nut 1 ¼ - 1 ½ turns counter-clockwise to complete the adjustment.
 - 7.5. **Unlock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will unlatch when the outside or inside handles are actuated.
 - 7.6. **Lock** the inside handle lock lever, close the rotary lock and actuate the outside handle to test for proper operation. If adjusted correctly, the rotary lock will not unlatch when the outside or inside handles are actuated.
8. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
9. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.
10. Install a new Access Hole Cover Sticker to the edge of the door.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Outside Handle Service (split lock style doors)

Tools required: Phillips screwdriver, 7/16" nut driver, T-20 Torx bit

Parts required: (1) Outer Handle

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove (3) screws fastening the bracket to the outside handle. Retain screws for re-use.
4. Remove the lock rod fastened to the outer handle. Retain the rod clip for re-use.
5. Remove the outer handle.
6. Install the new outer handle. Align the lock rod with the hole on the outer handle and install the rod clip.
7. Secure the handle bracket to the outside handle with the (3) handle screws.

Note:

Align the outer handle with the bracket before tightening.

Do not over-tighten the screws. Over-tightening can cause the outer handle to bind.

8. Check for proper operation of the outer handle. Adjust the latch rod as necessary.

Note:

Do not over-tighten the rod nut as this may cause the latch to disengage.

9. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
10. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 18, 2000

Updated 4/5/2011

Door Check Slide Bar and Pivot Bracket Service

Tools required: Phillips screwdriver, 7/16" Box end wrench, Loctite 242, 3/8" Box end wrench, 5/32 Hex wrench, Soft Faced Mallet

Parts required: (1) Door Check Assy, Slide Bar Assembly, Pivot Bracket

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove the pivot pin from pivot bracket in door jam.
4. Remove Shoulder Bolt-Short and Nylok Hex Nut from slide bar guide bracket located inside the door.
5. Support the slide bar and press-out the stop pin from slide bar.

Note:

Be careful not to bend slide bar

6. Remove the rubber bumper and bumper stop.
7. To aid in removing the slide bar, loosen the two hex bolts, one on either side of the door check housing.
8. Move door to fully open. Use a soft-faced hammer to tap the end of the slide bar through the door check. Remove the slide bar.
9. Remove all but the upper right screw on the pivot bracket, which is located in the hinge side door jam. Loosen, but do not remove the upper right-hand screw and swing the pivot bracket out of the way. Reinstall (1) screw into the lower right-hand screw hole.

Note:

This will prevent the tapping plate inside the door from dropping.

CAUTION:

If the tapping plate is dropped, removal of the door and mounting frame may be necessary to retrieve and re-install the tapping plate.

10. Install the new pivot bracket onto the door jam by inserting the upper right-hand screw first, then removing the lower screw that was holding the tapping plate. Complete the installation by installing and tightening all (6) screws.
11. Open the door fully. Insert the small end of the slide bar through the hole in the edge of the door and into the door check body. Use a soft-faced hammer to lightly tap the slide bar through the door check body until the groove in the slide bar lines up with the hole in the guide bracket on the door.
12. Install the rubber bumper and the bumper stop onto the slide bar. Position the bumper and stop between the door check mounting bracket and the hole in the slide bar.
13. Support the slide bar and install the stop pin through the hole in the slide bar.

Note:

Be careful not to bend slide bar

14. Install the shoulder bolt-short through the slot in the slide bar and fasten to the hole in the guide bracket on the door with the Nylok hex nut.
15. Line up the link end of the slide bar with its corresponding hole in the pivot bracket on the mounting frame. Install the shoulder bolt-long through the hole and fasten with a Nylok hex nut.

Note:

When installing the pivot pin into the pivot bracket and door check link, resistance will be encountered, gently tap the pin through the link and secure. Do not over tighten as this will result in binding of the door check.

16. Adjust the door check resistance by equally tightening the bolts on the top and bottom of the door check body. A properly adjusted door check will have approximately 15 lbs. of resistance measured at the edge of the door. The check may be set slightly higher or lower to suit the individual need.
17. Install the inner plastic panel by aligning the screw holes for the screendoor latch striker. Adhere the panel to the door by pushing on the Velcro and/or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. Over tightening will cause the panel to buckle.
18. Install the screendoor latch striker with its (2) screws. Latch the screendoor to the main door and check for the proper alignment of the screendoor latch striker. Adjust the striker as necessary to latch the doors together.

ENTRYDOOR SERVICE INSTRUCTIONS

Created September 20, 2000

Updated 4/5/2011

Door Adjustment on Hinges

Tools required: Phillips screwdriver

Parts required: None

Adjustment Procedure

1. Open the main door and locate the screws that attach the door to the hinges.
2. Mark the current location of the hinges on the door.
3. While supporting the door, carefully loosen the screws that attach the hinges to the door.

Note: Only loosen the screws on the door side. The hinge is slotted on the door side only.

*Note: **Do Not remove the screws!** Removal of the screws can cause the door to fall potentially causing injury.*

4. Move the door up or down vertically, as needed.
5. Tighten the screws. Torque to 40 in/lbs.

*Note: **Do Not over tighten** and strip screws. Any stripped screws must be replaced with the next size larger of the same type.*

6. Check for proper striker bolt alignment, adjust as necessary. See Striker Bolt Procedure.

ENTRYDOOR SERVICE INSTRUCTIONS

Created September 20, 2000

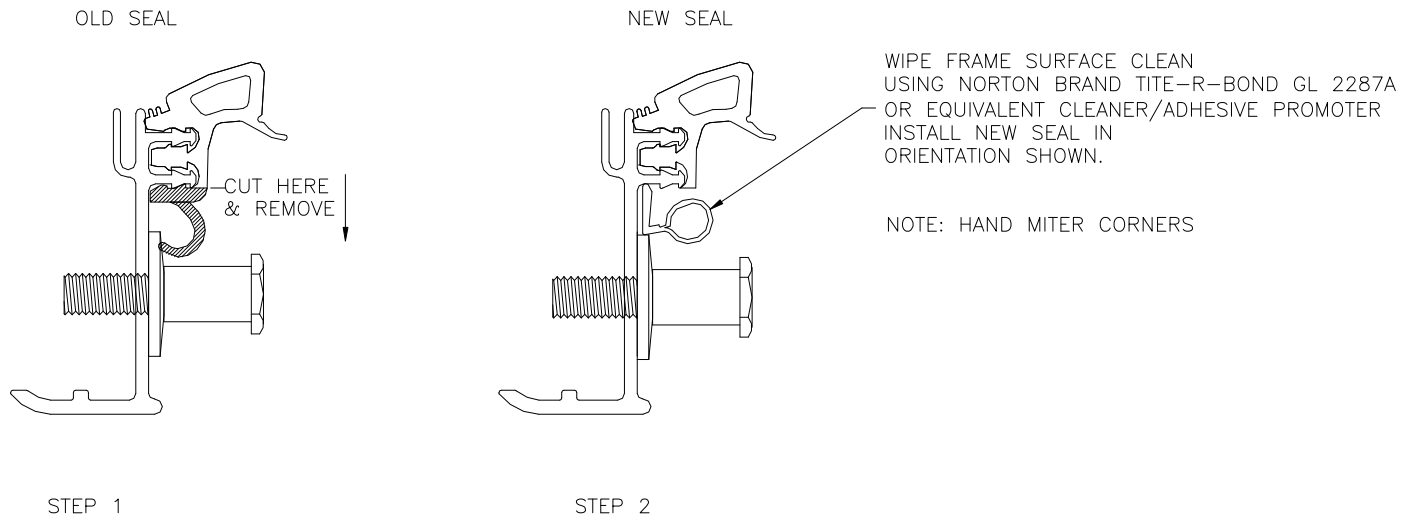
Updated 4/5/2011

Door Bulb Seal Update

Tools required: Scraper, Sharp Utility Knife, Towels, Norton Brand Tite-R-Bond GL 2287A or equivalent cleaner/adhesive promoter.

Parts required: 15ft of new style bulb seal (See Service Drawing for correct part number)

Procedure:



ENTRYDOOR SERVICE INSTRUCTIONS

Created September 20, 2000

Updated 4/5/2011

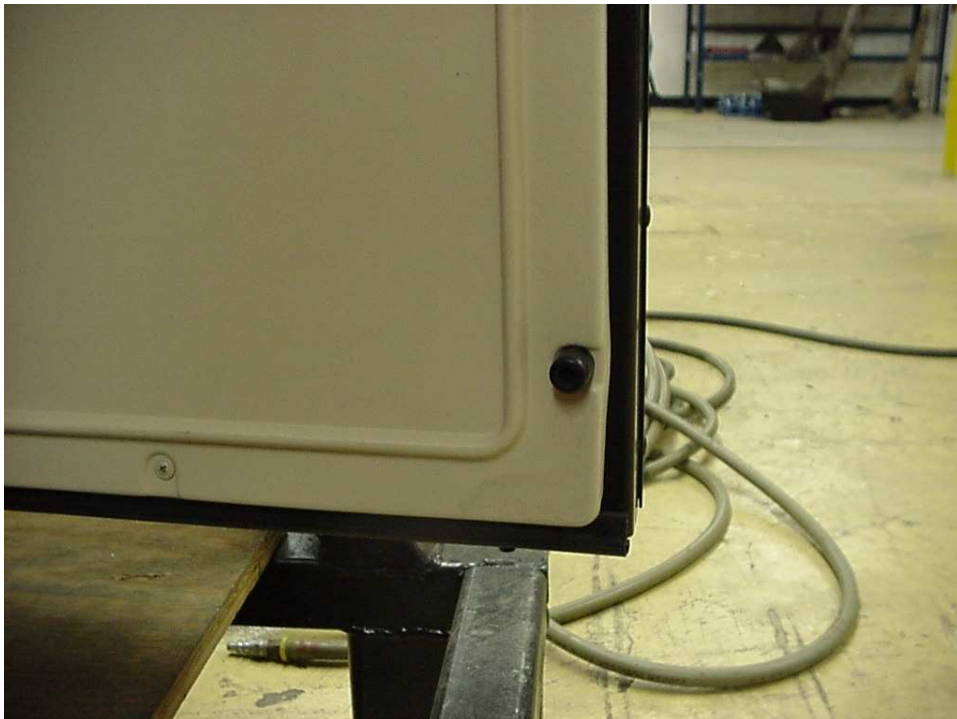
490792 DOOR BUMPER LOCATION

Tools required: Phillips screwdriver

Parts required: (2) Bumpers, (2) Screws #18 x 1" self drill



UPPER BUMPER



LOWER BUMPER

ENTRYDOOR SERVICE INSTRUCTIONS

Created January 17, 2000

Updated 4/5/2011

Power Lock Actuator Upgrade

Tools required: Phillips screwdriver, Needle Nose Pliers, Drill, 3/16" Drill Bit

Parts required: (1) 490932 Power Lock Actuator,

(1) 231-041095 Lock Rod Retainer Clip

Removal and Installation

1. Open main door and remove the (2) screws fastening the screen latch striker. Retain the screws and striker for re-use.
2. Remove the inner plastic panel by pulling the panel free from its Velcro attachment and/or remove the panel attachment screws and bumpers around the perimeter (screws on later models). Retain screws for re-use. Set panel aside.
3. Remove Lock Rod Retainer Clip from Lock Rod with needle nose pliers.
4. Disconnect Lock Rod from Actuator plunger. **DO NOT REMOVE LOCK ROD FROM HANDLE ASSEMBLY.**
5. Remove the Power Lock Actuator mounting screws (2). Retain the screws for re-use.
6. Partially remove Power Lock Actuator through the access hole until the wire harness plug is accessible and unplug the actuator from the wire harness.
7. Disconnect wire harness from contact block at door jamb and discard. (Removal of contact block may be necessary.)
8. Locate and drill a new 3/16" mounting hole using the Mounting Template.
9. Install new actuator into the door, route wires down to the contact block and plug into the contact block (blue wire goes to top contact button). Re-install contact block if removal was necessary.
10. Re-attach the actuator using the (2) screws retained from step 5 (Top mounting hole on actuator is not used.) See Figure 1.
11. Reconnect the Lock Rod to Actuator plunger and secure the rod with the Lock Rod Retainer Clip. Operate Inside handle lock knob several times to make sure the lock rod is not binding.
12. Install the inner plastic panel by aligning the screw holes for the screen door latch striker. Adhere the panel to the door by pushing on the Velcro and /or installing the screws around the perimeter. Note: Do not over tighten the panel attachment screws. If bumpers exist, bumpers should be located at the top and bottom latch side panel screw recesses. Over tightening will cause the panel to buckle.
13. Install the screen door latch striker with its (2) screws. Latch the screen door to the main door and check for proper alignment of the screen door latch striker. Adjust the striker as necessary to latch the doors together.

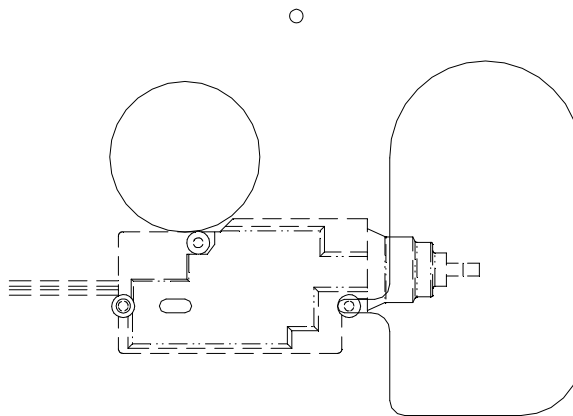


Figure 1.

ENTRYDOOR SERVICE INSTRUCTIONS

Created November 1, 2005

Updated 4/5/2011

Door Bulb Seal Service

Tools required: Scraper, Scissors, Utility Knife, Cleaner (Isopropyl Alcohol)

*Parts required: (22) ft. 132-042483 Bulb Seal, (10) ft. 122-041986 Flip Seal,
(1) 132-042483 Threshold Seal*

Removal and Installation

1. Open Door and remove bulb seal and flip seal from perimeter of the mounting frame. It may require use of a scraper to fully remove the tape from the frame.
2. Clean the frame with Isopropyl Alcohol or appropriate substitute. All of the old tape needs to be removed.
3. Install the top bulb seal (132-042483) first. See drawing below for correct orientation. Cut the bulb seal to fit the full width of the mounting frame.
4. Install the latch side and hinge side bulb seal (132-042483) pieces. At the top of the frame, butt the end of the seal into the already installed bulb seal. Be careful not to stretch the seal while installing it. Make sure the bulb seal is pushed behind the screen latch striker to prevent the screen latch from tearing it.
5. Install the Bulb Seal (132-042483) on the outboard hinge side of the door. (see drawing below).
6. Install the Flip Seal (122-041986) on the outboard edge of the hinge and top of the mounting frame (see drawing below).
7. Locate and remove the old threshold seal at the bottom of the door.
8. Clean the bottom edge of the door with isopropyl alcohol.
9. Peel away approximately 2" of the release liner from the tape on the seal, align the end of the new seal with the edge of the door, align the inside lip of the new seal with the bottom of the door, press the seal to the door.
10. At the opposite end of the seal, align the end of the seal with the edge of the door. Cut the seal to length, as necessary, and remove the rest of the liner and press the seal into place.
11. Close the door and check for proper operation of the seal. Open the door and raise or lower the seal as necessary.

