savaria™ *Technical Bulletin*
WR-500 Lock Installation

Unless otherwise specified, Savaria Corporation accepts no responsibility for changes, labour, or replacements incurred from this technical bulletin.

Part number	000775
Type	Installation procedure
Revision (date)	27-m10-2010
Affects	V1504, PAL, Multilift, Telecab, Infinity, Eclipse
Suggested action	Use this bulletin to install the WR-500 lock in doors by others.

Standard notations
The following notations may be used throughout this technical bulletin to emphasize important safety information, mechanical concerns, and other important information. Savaria recommends that you review and follow all of these messages.

⚠ DANGER	Danger messages indicate an imminently hazardous situation, which, if not avoided, results in death or serious injury. All danger messages feature a standard ISO safety alert symbol followed by the signal word *Danger* in capitalized black lettering on a red background.
⚠ WARNING	Warning messages indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. All warning messages feature a standard ISO safety alert symbol followed by the signal word Warning in capitalized black lettering on a dark yellow background.
⚠ CAUTION	Caution messages indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. All caution messages feature a standard ISO safety alert symbol followed by the signal word Caution in capitalized black lettering on a yellow background.
CAUTION	Caution messages that do not include the ISO safety alert symbol indicate a potentially hazardous situation for the machine only, which, if not avoided, could result in damage to the machine. These caution messages include the signal word Caution in capitalized black lettering on a yellow background.
NOTE	Note messages provide information, such as reminders, general information about a previous statement, or additional guidelines that do not fit into the flow of the preceding text. All note messages include the signal word Note in capitalized white lettering on a blue background.

General
This technical bulletin is available through Savaria and provides instructions to install the WR-500 lock in doors by others.

Please contact Savaria for details regarding ordering information.

For technical support, please call (800) 791-7999.

Visit our website at: www.savaria.com.

Disclaimer
Failure to follow instructions renders the Limited Warranty null and void. In addition, any party installing the product who deviates from the installation instructions agrees to indemnify, save, and hold harmless the manufacturer from any and all loss, liability, or damage that may occur as a result of the deviation.

Warnings and hazards

⚠ WARNING
To avoid injury, please ensure that you read and understand this entire bulletin before performing the installation procedures.

⚡ ELECTRICAL SHOCK HAZARD
Do not connect or disconnect wiring while the power is on. Failure to comply could result in death or serious injury.

Job site tools
Refer to the Installation Guide for the lift you are installing for a list of job site tools and materials required.
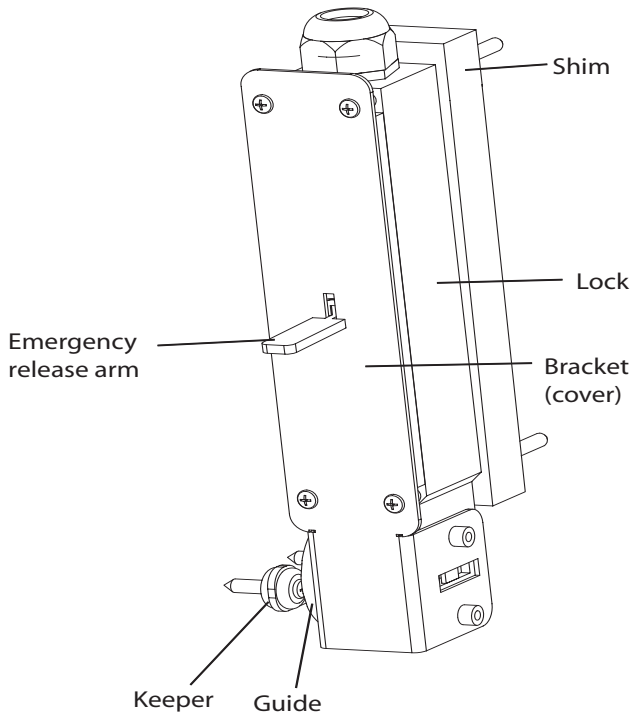
Install WR-500 lock (doors by others)

Procedure

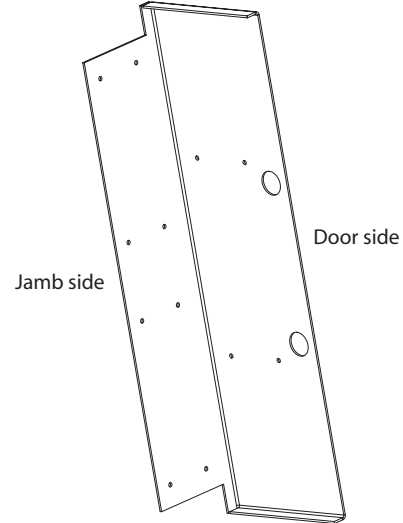| NOTE |
|------|
| Mount the WR-500 lock in a vertical position. Use only for residential applications with swing-type doors. |

1 The WR-500 lock is shipped partially assembled. Figure 1 below shows a line drawing and photo of the lock.

Figure 1
WR-500 lock assembly

2 From inside the hoistway, close the door and hold the installation template (P/N 320638) against the underside of the door jamb and flush against the back of the door. See Figures 2 and 3. For template dimensions, see the template drawing at the end of this document.

Figure 2
WR-500 lock installation template

3 Prepare the lock mounting location.
   • Note that the lock requires a flat mounting surface. You need to either cut out the section of door stop trim so the template is flush against the door jamb, or shim the lock mounting surface (jamb side) to be level with the door stop trim.
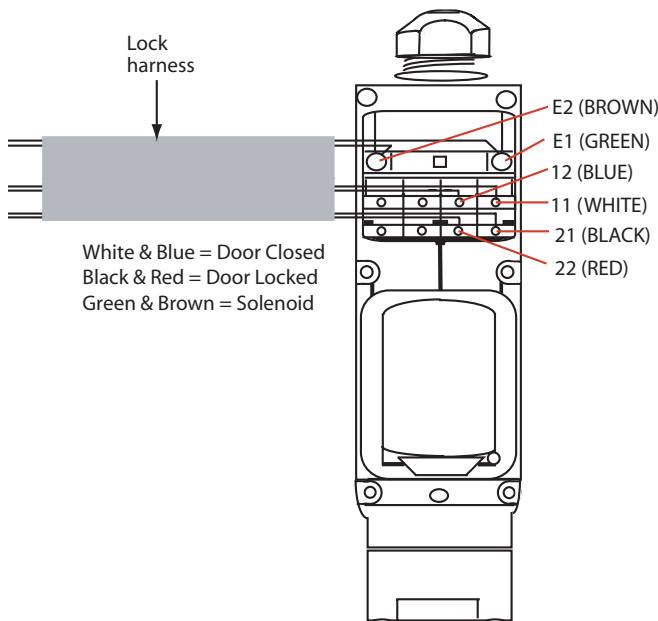
Figure 3
WR-500 lock installation template in position

4 Once the door stop trim is either removed or shimmed, use the template to:
   a. Mark and then drill four pilot holes in the side door jamb to mount the lock.
   b. Mark and then drill two holes in the door to mount the keeper.
   c. Mark the hole location on the door for the emergency release key.

5 Remove the template and install the lock per the steps below. Figure 1 on the previous page shows the lock assembly components.

   a. Place the lock shim against the door jamb, followed by the lock, and then the bracket (cover).

   b. Secure the lock assembly to the door jamb using the four #10 x 3.5" screws provided.

   c. Mount the keeper to the door, securing it in place using the two #8 x 1-1/4" screws provided.

   d. Verify that the keeper screws are firmly attached to the door. If not, you must provide additional support to ensure the keeper is permanently mounted to the door.

   e. From the hoistway side, close the door and verify that you can release the latch manually.

   f. Adjust the lock and/or keeper as required.

6 Wire the door lock. The wiring comes in from the top of the lock.

   a. Connect the wiring to the door lock per the lock documentation.

   b. Route the wiring from the door lock into the tower and connect to the controller per the wiring diagrams shipped with the lift.

Figure 4
WR-500 lock wiring

Lock harness

E2 (BROWN)
E1 (GREEN)
12 (BLUE)
11 (WHITE)
21 (BLACK)
22 (RED)

White & Blue = Door Closed
Black & Red = Door Locked
Green & Brown = Solenoid

7 Locate and drill the hole for the emergency key in the hoistway doors as described in the next section "WR-500 lock emergency key". Use care when drilling to avoid splintering the door faces.
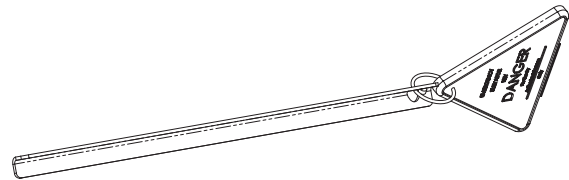
8 Repeat the previous steps for each door.

WR-500 lock emergency key (doors by others only)

Procedure
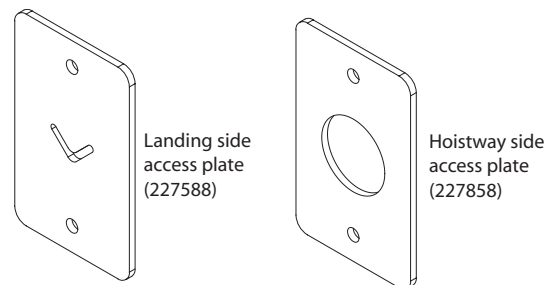
<table><tr><td>**NOTE**</td></tr><tr><td>In case of emergency, you can manually unlock the door from outside the hoistway using the emergency key PN 300878. When not in use, store the emergency key in a safe place for easy access.</td></tr></table>
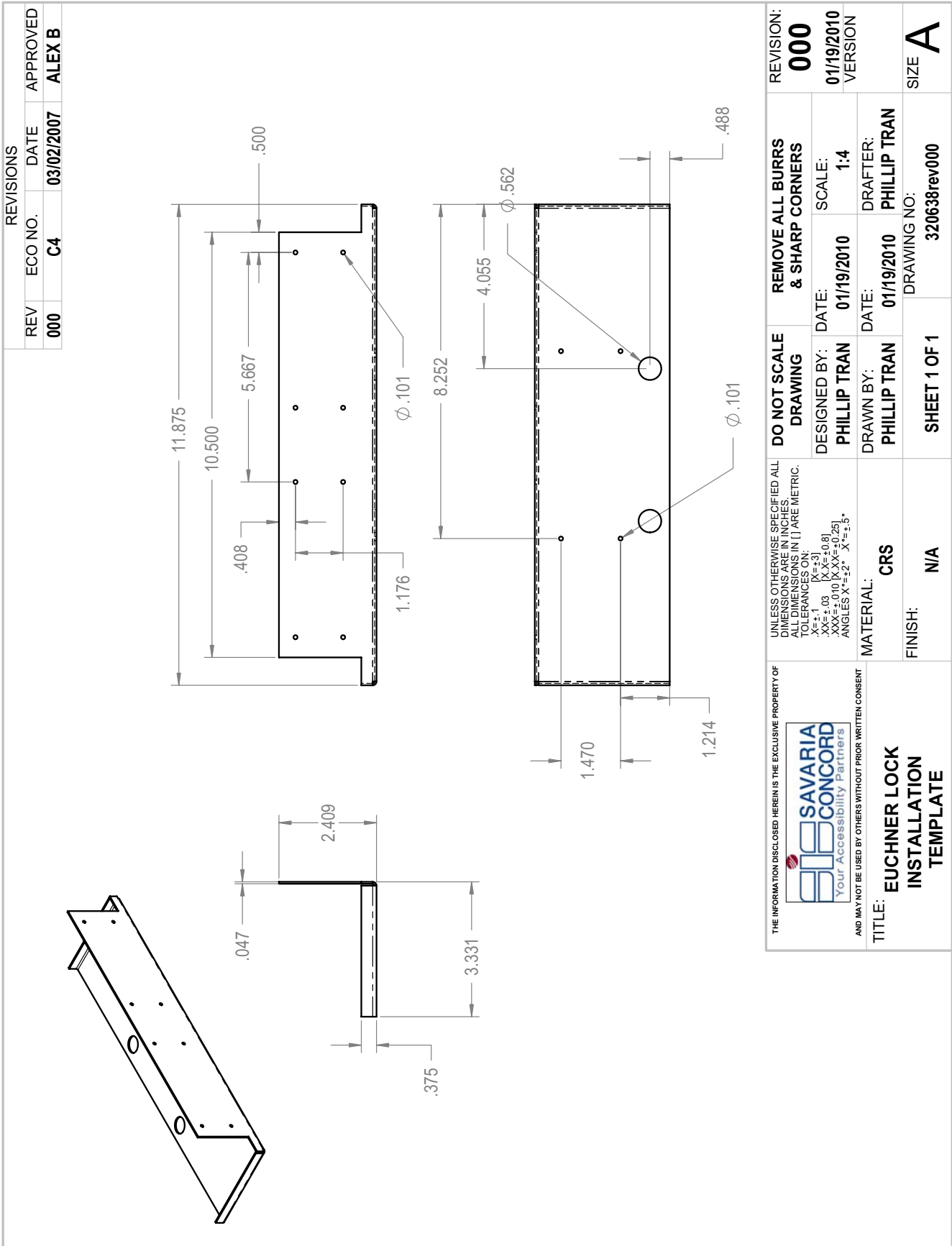
Figure 5
Emergency key 300878

1 Using the WR-500 lock template (P/N 320638), mark the key hole location on the door.

2 Drill the key hole in the door at the location shown being careful not to chip the door.

   a. Drill a small pilot hole through the door and then open this hole up with progressively larger bits.

   b. Always drill only 3/4 of the way through the door on one side to prevent splintering and then finish drilling from the other side.

3 Attach the two access plates (one to the hoistway side of the door and one to the landing side of the door) in line with the key hole.

Figure 6
Access plates for emergency key opening

Landing side access plate (227588)

Hoistway side access plate (227858)

   a. Center the landing side access plate (227588) over the hole on the outside of the door and secure it using the two #4 x 1/2" screws provided.

   b. Center the hoistway side access plate (227858) over the hole on the inside of the door and secure it using the two #4 x 1/2" screws provided.

4 To unlock the door in an emergency:

   a. Insert the emergency release key through the hole in the hoistway door and apply a downward or prying motion to the outer end of the key, thus lifting the manual unlock pin.

   b. Open the door while holding down on the key.

   c. Remove the key and store it in a safe place for easy access.

Figure 7
WR-500 lock template

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