

WD-7000 12-WD7000 Series

Wood Door Concealed Vertical Rod Multi-Point Lock Installation Instructions

Table of Contents

1 Warnings 2

2 General Description 3

3 WD-7000 & 12-WD7000 Series Concealed Vertical Rod Latch Device-Installation Instructions4-6

4 NB-WD7000 & 12-NB-WD7000 Series Concealed Vertical Rod Latch Device-Installation Instructions7-9

5 Classroom Function Series10-11

1 Warnings



Changes or modifications to this unit could void the user’s authority to operate the equipment.



Important: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (authority having jurisdiction) to ensure compliance with all applicable codes and ratings

2 General Description

The 7000 Series Multi-Point Lock is ideal for security applications and joins the SARGENT line of multi-point door security devices. Eliminating the need for automatic flushbolts and coordinators, the 7000 Series provides flexibility, simplicity, strength, durability, aesthetics and innovation and is perfect for a wide variety of applications including conference rooms, commercial office buildings, convention centers, upscale condominiums and residential applications, medical and educational institutions where exit devices are not required.

7000 Series Vertical Rod locks are available for aluminum, wood and metal doors. Single point top latching can also be specified, eliminating the bottom strike and the additional installation work required with a bottom bolt. The single point device is specified with the NB- option. Rods are retracted by dual mounted controls with a variety of functions available.

The 7000 Series is available for fire rated openings as a 12- for wood or metal doors. Thermal pin requirements for fire rated doors:

- Double doors with two point latching on each do not require thermal pins
- Double doors with single point latching (NB-) on each require a total of 2 thermal pins, one thermal pin (supplied) for each device
- Single door applications: contact factory

See the Sargent 7000 Series Catalog for more information, call 1-800-727-5477, or visit www.sargentlock.com

Tools Required - (Same for all Series Products)

- Phillips screw driver
- Slotted screw driver
- Drill with bits

3 WD-7000 & 12-WD7000 Series-Installation Instructions



Note: For 100 Series auxiliary controls and ELR (Electric Latch Retraction) Option:
Ensure all required door preparation has been completed prior to hardware installation.

A) Door Preparation

1. Verify Hand and Bevel of Door -(Figure 1)

- Check hand of door. (the lock may be handed).
- Door should be fitted and hung.
- Verify box label for size of the lock, function and hand.
- Change handing if necessary.

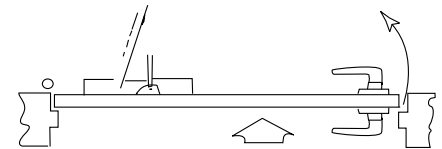
2. Door Preparation

If door is not pre-drilled, prepare door according to the appropriate template # 4624. Refer to templates at www.sargentlock.com.

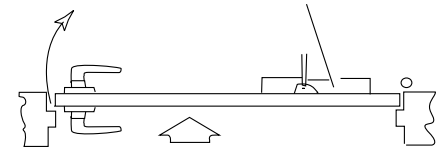
3. Hardware Supplied:

	AA Top Chassis Mounting Screw- (4) #12-2" Phillips Flat Head Wood Screws
	BB Lever Trim Mounting Screw- (2) 1/4" -20 x 3" Phillips Oval Head Machine Screws
	CC Inner Chassis Mounting Screw- (2) #10 x 1-1/4" Phillips Flat Head Wood Screws
	DD Bottom Case Mounting Screw- (2) 1/4" -20 x 1/2" Phillips Flat Head Machine Screws (not used with NB- prefix)
	Bottom Strike Mounting Screw- (2) 1/4" -20 x 2" Phillips Head Machine Screws and (2) Anchor Nuts

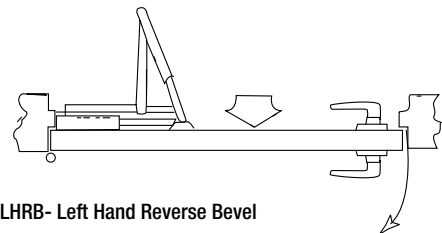
Figure 1: Handing



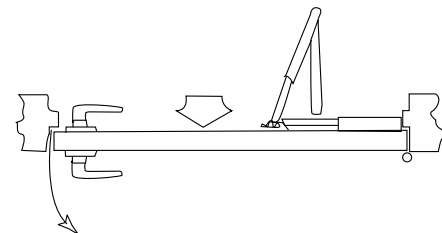
LH- Left Hand Door



RH- Right Hand Door



LHRB- Left Hand Reverse Bevel



RHRB- Right Hand Reverse Bevel

3 WD-7000 & 12-WD7000 Series-Installation Instructions-Continued
B) Installation

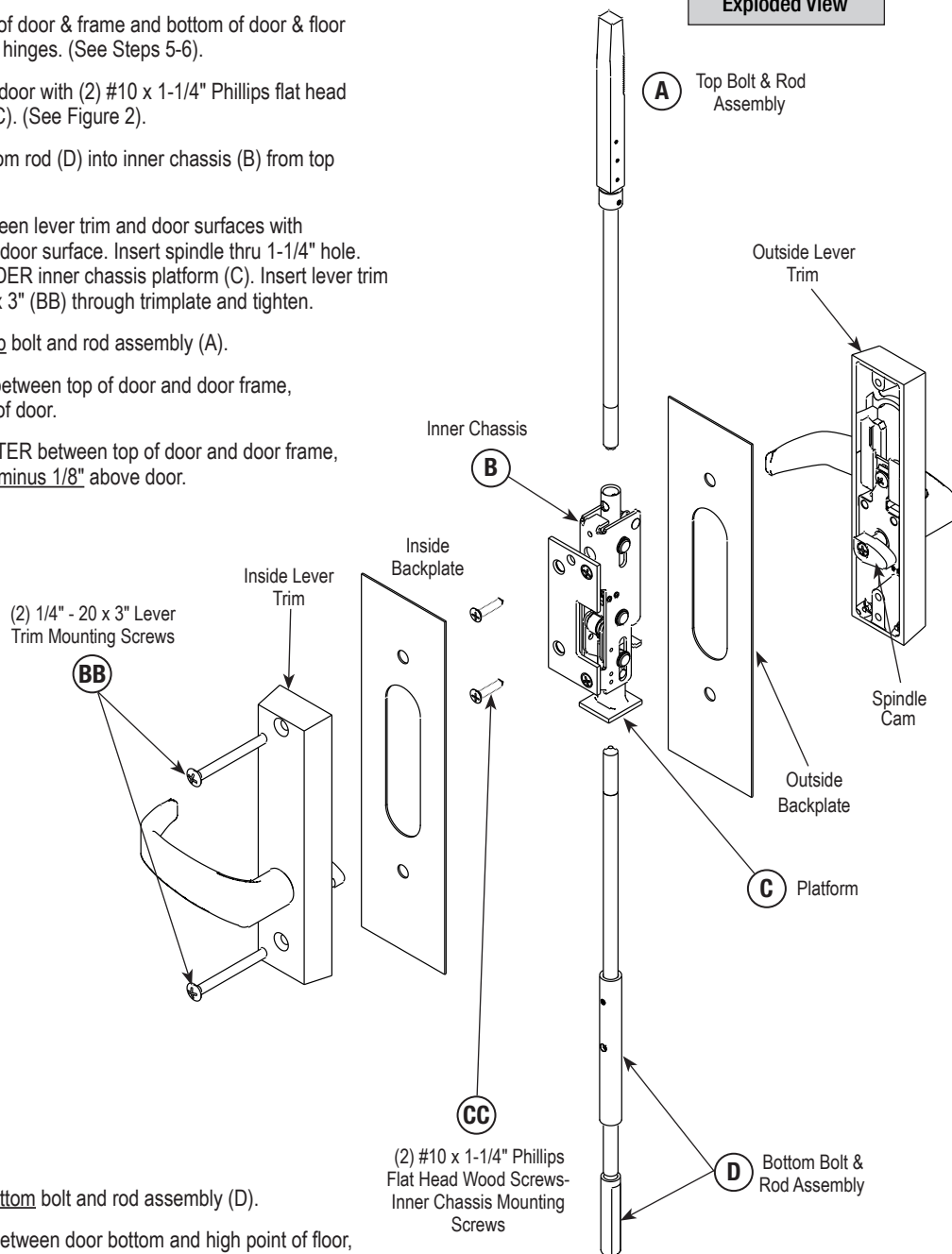
1. Measure gap between top of door & frame and bottom of door & floor before removing door from hinges. (See Steps 5-6).
2. Attach inner chassis (B) to door with (2) #10 x 1-1/4" Phillips flat head wood mounting screws (CC). (See Figure 2).
3. Screw top rod (A) and bottom rod (D) into inner chassis (B) from top and bottom of door.
4. Place trim backplates between lever trim and door surfaces with unfinished side toward the door surface. Insert spindle thru 1-1/4" hole. Spindle cams must be **UNDER** inner chassis platform (C). Insert lever trim mounting screws, 1/4"-20 x 3" (BB) through trimplate and tighten.
5. Use inside trim to adjust top bolt and rod assembly (A).

- For 1/8" GAP OR LESS between top of door and door frame, rotate bolt even with top of door.

- For 1/8" GAP OR GREATER between top of door and door frame, rotate bolt to gap space minus 1/8" above door.

6. Use inside trim to adjust bottom bolt and rod assembly (D).
- For 1/8" GAP OR LESS between door bottom and high point of floor, rotate bolt to make even with bottom of door.
- For 1/8" GAP OR GREATER between door bottom and high point of floor, rotate bolt to gap space minus 1/8" below door.

Figure 2:
WD-7000 Assembly
Exploded View



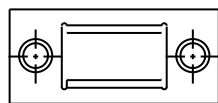
3 WD-7000 & 12-WD7000 Series-Instructions- Continued

B) Installation- Continued

7. Slide top chassis (E) over top bolt (A) on top of door. Secure with (4) #12-2" flat head wood screws (AA). (See Figure 3).
8. Install bottom plate (H) over bottom bolt (D) on bottom of door. Secure with (2) 1/4"-20 x 1/2" Phillips flat head machine screws (DD).
9. Install door into the frame using hinges.
10. Attach 650 Top Strike to door frame, (2) #10-24 x 1/2" Phillips flat head machine screws (Reference template # 4449). (See below).
11. Attach bottom strike to floor under bottom bolt (Reference template # 4449). 650 Bottom Strike, WD7000 or 606 Bottom Strike, 12-WD7000.
12. BEFORE CLOSING DOOR, ensure the following:
(Adjust bolts per Step 5 as needed):
 - a) Either lever retracts both bolts.
 - b) Bolts stay retracted (in hold back).
 - c) Bolts release when door closes; button inside top of door hits frame.
 - d) Bolts engage strikes by 1/4" - 5/16".

C) Strikeplates

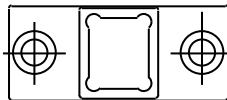
650 Top Strikeplate



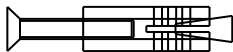
650 Top Strike, WD7000 or 12-WD7000

(2) #10-24 x 1/2" Phillips Flat Head Machine Screws

606 Bottom Strikeplate



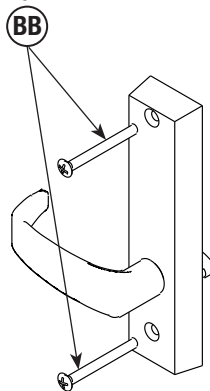
606 Bottom Strike



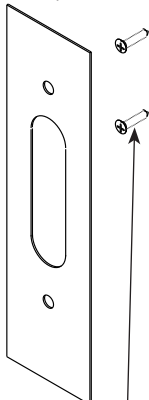
STRIKE PACK, WD7000: 650 Strike (2), Top and Bottom strikes.
Top: #10-24 x 1/2" PH FL HD MS (2);
Bottom: 1/4-20 x 2" PH FL HD MS (2) and anchor nuts (2)

STRIKE PACK, 12-WD7000: 650 Top Strike (1), #10-24 x 1/2" PH FL HD MS (2);
606 Bottom Strike (1), 1/4-20 x 2" PH FL HD MS (2) and anchor nuts (2)

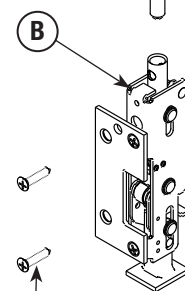
Lever Trim
Mounting Screws



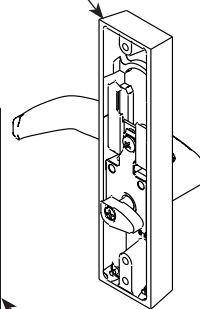
Inside
Backplate



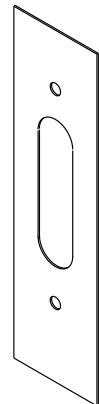
Inner Chassis



Outside Lever
Trim



Outside
Backplate



Inner Chassis
Mounting Screws

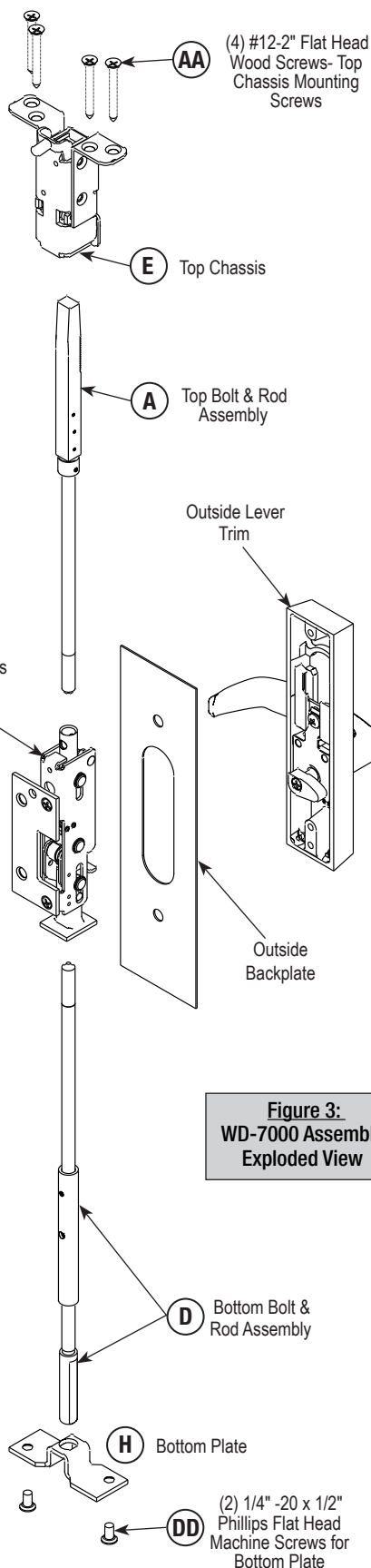
CC

**Figure 3:
WD-7000 Assembly
Exploded View**

Bottom Bolt &
Rod Assembly

Bottom Plate

(2) 1/4" -20 x 1/2"
Phillips Flat Head
Machine Screws for
Bottom Plate



4 NB-WD7000 & 12-NB-WD7000 Series-Installation Instructions (Less Bottom Rod)



Note: For 100 Series auxiliary controls and ELR (Electric Latch Retraction) Option: Ensure all required door preparation has been completed prior to hardware installation.

12-NB-WD70000 Fire-rated devices require installation of thermal pins for fire rating. Pairs of doors ONLY. NOT AVAILABLE for single door application.

A) Door Preparation

1. Verify Hand and Bevel of Door -(Figure 4)

- Check hand of door. (The lock may be handed).
- Door should be fitted and hung.
- Verify box label for size of the lock, function and hand.
- Change handing if necessary.

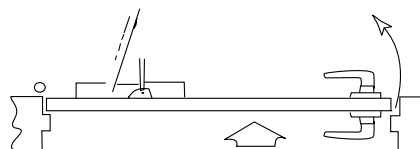
2. Door Preparation

If door is not pre-drilled, prepare door according to the appropriate template. Refer to templates at www.sargentlock.com.

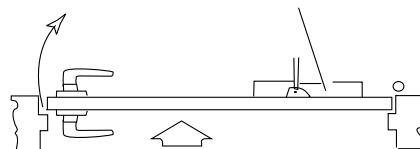
3. Hardware Supplied:

	AA Top Chassis Mounting Screw- (4) #12-2" Phillips Flat Head Wood Screws
	BB Lever Trim Mounting Screw- (2) 1/4" -20 x 3" Phillips Oval Head Machine Screws
	CC Inner Chassis Mounting Screw- (2) #10 x 1-1/4" Phillips Flat Head Wood Screws

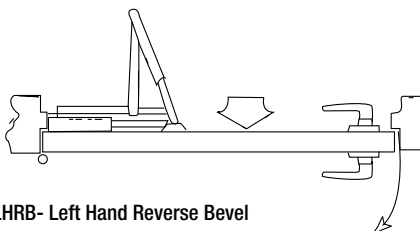
Figure 4: Handing



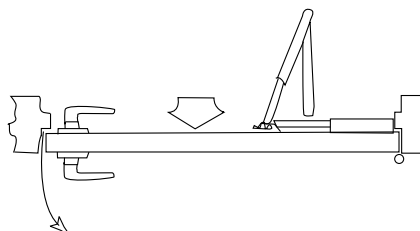
LH- Left Hand Door



RH- Right Hand Door



LHRB- Left Hand Reverse Bevel



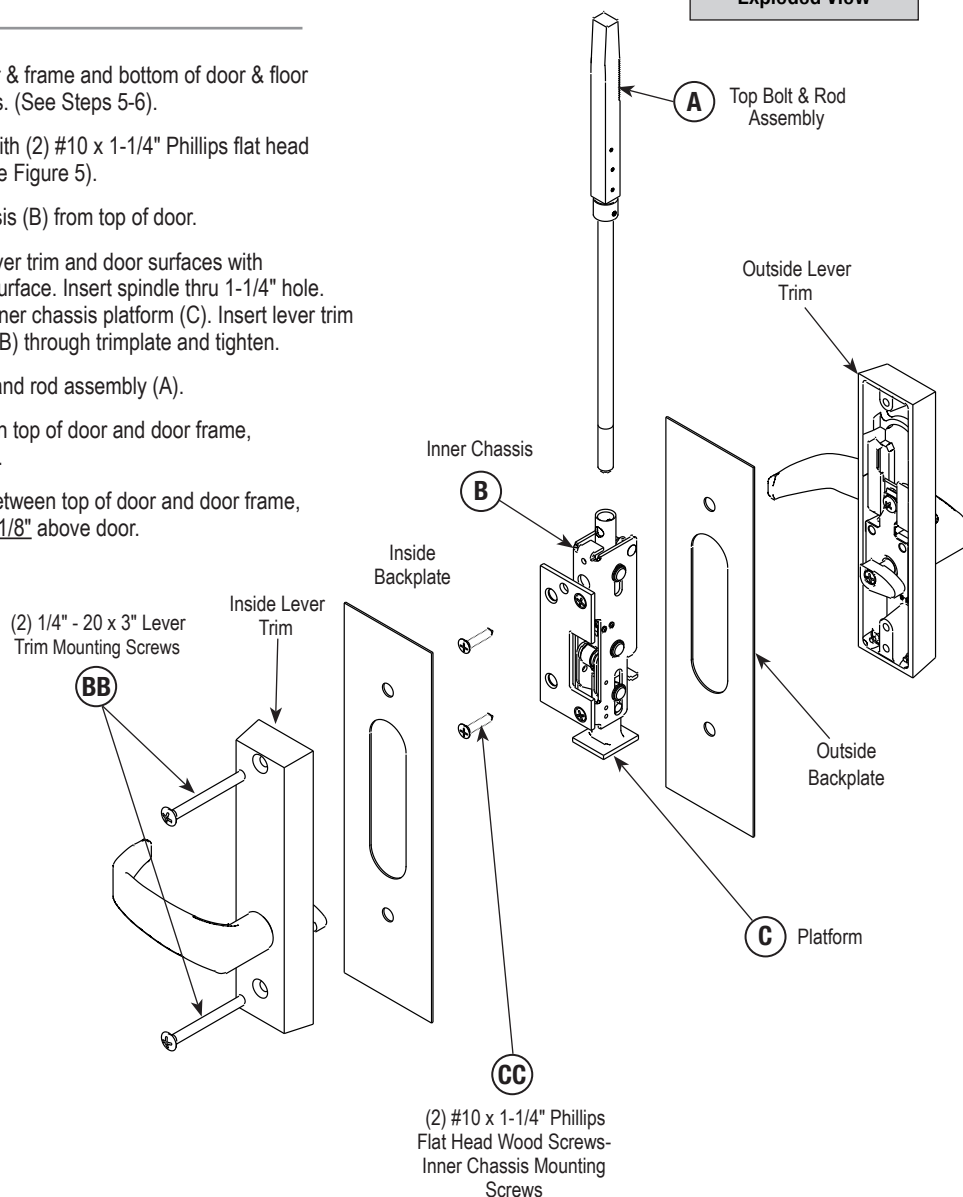
RHRB- Right Hand Reverse Bevel

4 NB-WD7000 & 12-NB-WD7000 Series-Installation Instructions (Less Bottom Rod)- Continued

B) Installation

1. Measure gap between top of door & frame and bottom of door & floor before removing door from hinges. (See Steps 5-6).
2. Attach inner chassis (B) to door with (2) #10 x 1-1/4" Phillips flat head wood mounting screws (CC). (See Figure 5).
3. Screw top rod (A) into inner chassis (B) from top of door.
4. Place trim backplates between lever trim and door surfaces with unfinished side toward the door surface. Insert spindle thru 1-1/4" hole. Spindle cams must be UNDER inner chassis platform (C). Insert lever trim mounting screws, 1/4"-20 x 3", (BB) through trimplate and tighten.
5. Use inside trim to adjust top bolt and rod assembly (A).
 - For 1/8" GAP OR LESS between top of door and door frame, rotate bolt even with top of door.
 - For 1/8" GAP OR GREATER between top of door and door frame, rotate bolt to gap space minus 1/8" above door.

Figure 5:
NB-WD7000 Assembly
Exploded View

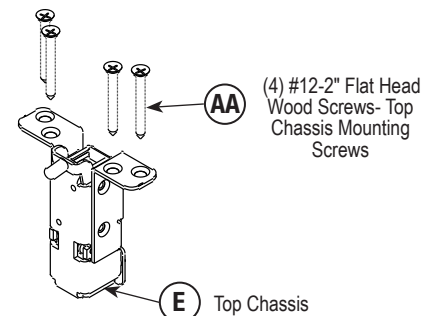


4 NB-WD7000 & 12-NB-WD7000 Series-Installation Instructions (Less Bottom Rod)- Continued

B) Installation- Continued

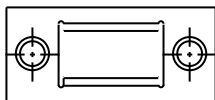
6. Slide top chassis (E) over top bolt (A). Secure with (4) #12-2" flat head wood screws (AA). (See Figure 6).
7. Install door into the frame using hinges.
8. Attach 650 Top Strike to door frame, (2) #10-24 x 1/2" Phillips flat head machine screws (Reference template # 4449). (See below).
9. BEFORE CLOSING DOOR, ensure the following:
(Adjust top bolt per Steps 5 as needed):
 - a) Either lever retracts bolt.
 - b) Bolt stays retracted (in hold back).
 - c) Bolt releases when door closes; button inside top of door hits frame.
 - d) Bolt engages strike, 1/4" - 5/16".

Figure 6:
NB-WD7000 Assembly
Exploded View



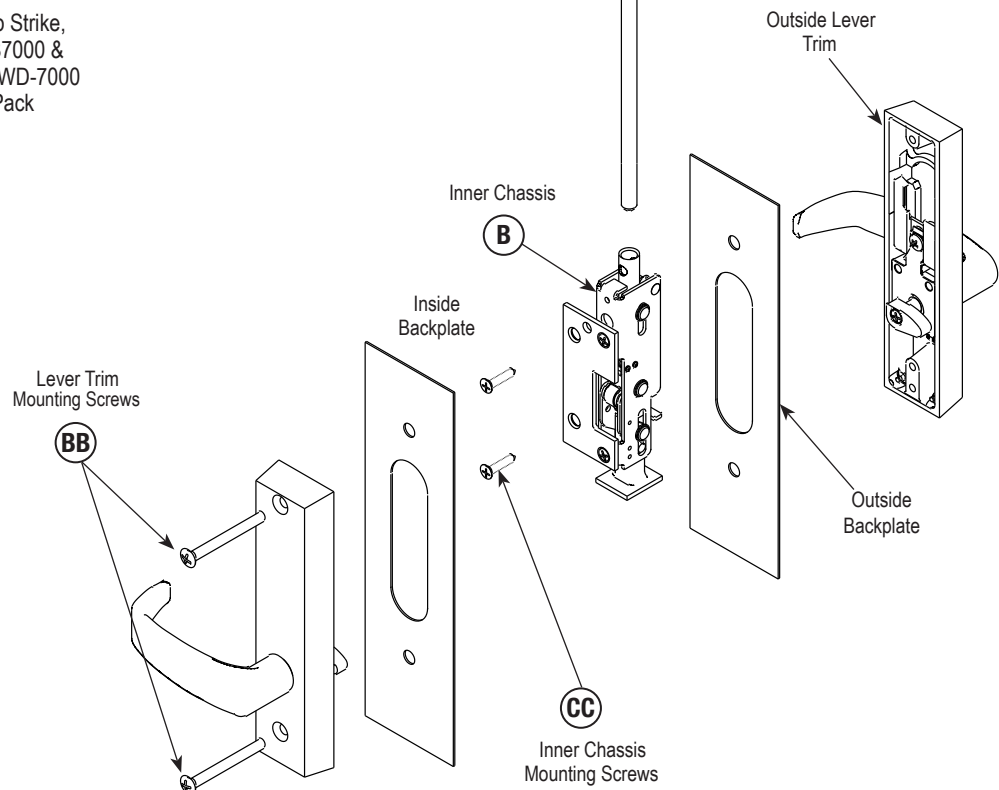
C) Strikeplate

650 Top Strikeplate



650 Top Strike,
WD-NB7000 &
12-NB-WD-7000
Strike Pack

(2) #10-24 x 1/2" Phillips
Flat Head Machine Screws



5 WD7000, 12-WD7000, NB-WD7000, & 12-NB-WD7000 Series CLASSROOM FUNCTION-Installation Instructions

A) Installation

1. Through bolt the trim as described in Step 4 on Page 8. Ensure that the inside cylinder tailpiece engages the auxiliary cam on the outside trim.
2. Check for smooth locking and unlocking via cylinder on both sides of the door.
3. Remove components shown below in order to replace outside cylinder.
4. Reinstall removed components after cylinder is installed.

Figure 7:
WD7000 Trim Assembly
Exploded View

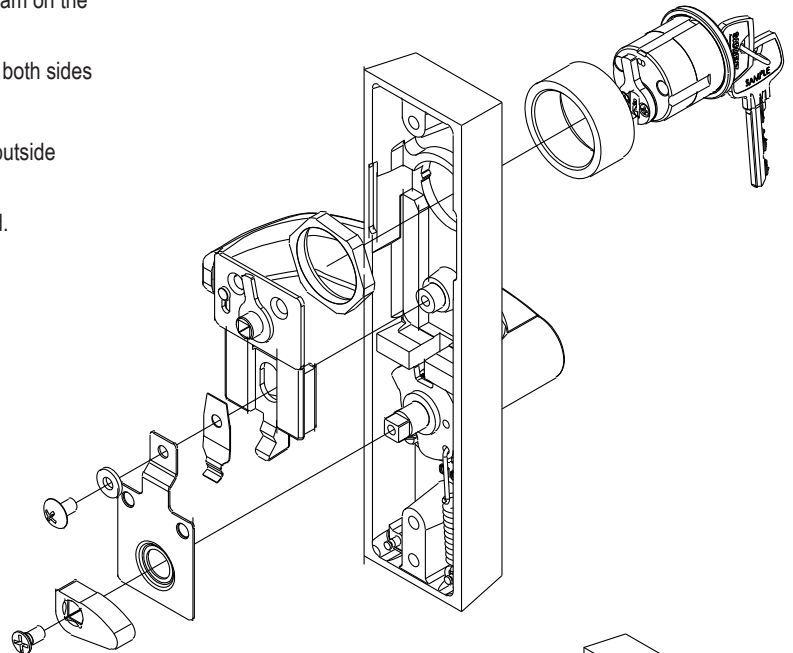
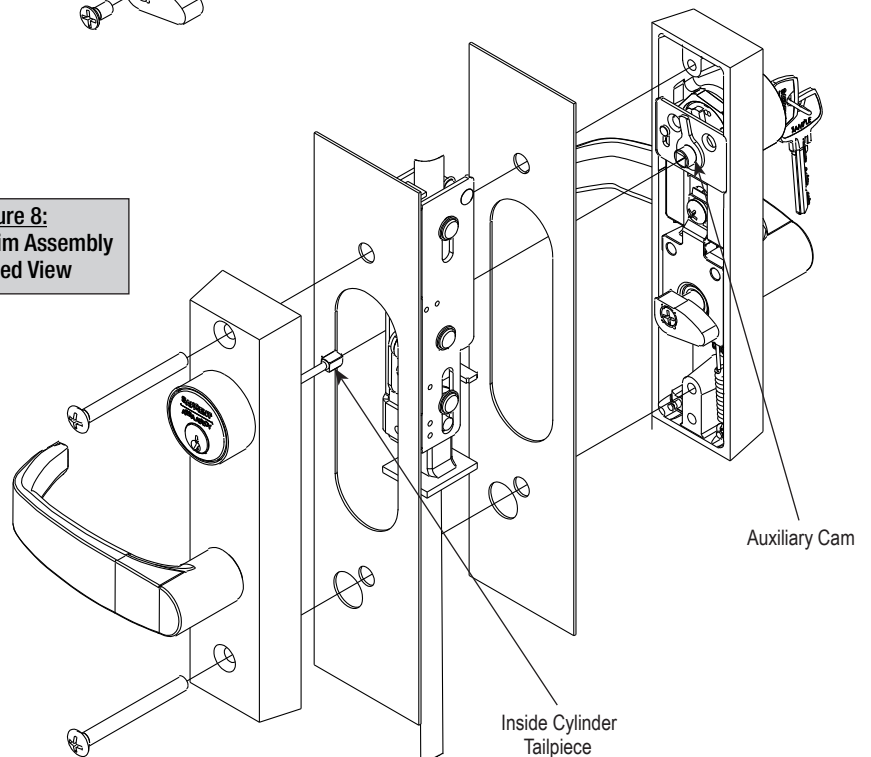
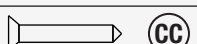


Figure 8:
WD7000 Trim Assembly
Exploded View



Hardware Supplied:

	(AA)
Top Chassis Mounting Screw- (4) #12-2" Phillips Flat Head Wood Screws	
	(BB)
Lever Trim Mounting Screw- (2) 1/4" -20 x 3" Phillips Oval Head Machine Screws	
	(CC)
Inner Chassis Mounting Screw- (2) #10 x 1-1/4" Phillips Flat Head Wood Screws	
	(DD)
Aux Control Mounting Screw- (2) 10-24 x 2-1/8" Phillips Oval Head Machine Screws	

5 WD7000, 12-WD7000, NB-WD7000, & 12-NB-WD7000 Series CLASSROOM FUNCTION-Installation Instructions- Continued

B) WD100 Series Auxiliary Control Product Installation

1. Slide the extension, with reduced diameter facing down, through the cut out for the inner chassis on the door.
2. Insert inner chassis into the door cutout and insert reduced end of extension in top threaded bushing on inner chassis. Secure with (1) #8-32 x 7/16" Phillips oval head machine screw. (Only on aux control devices), (See Figure 9).

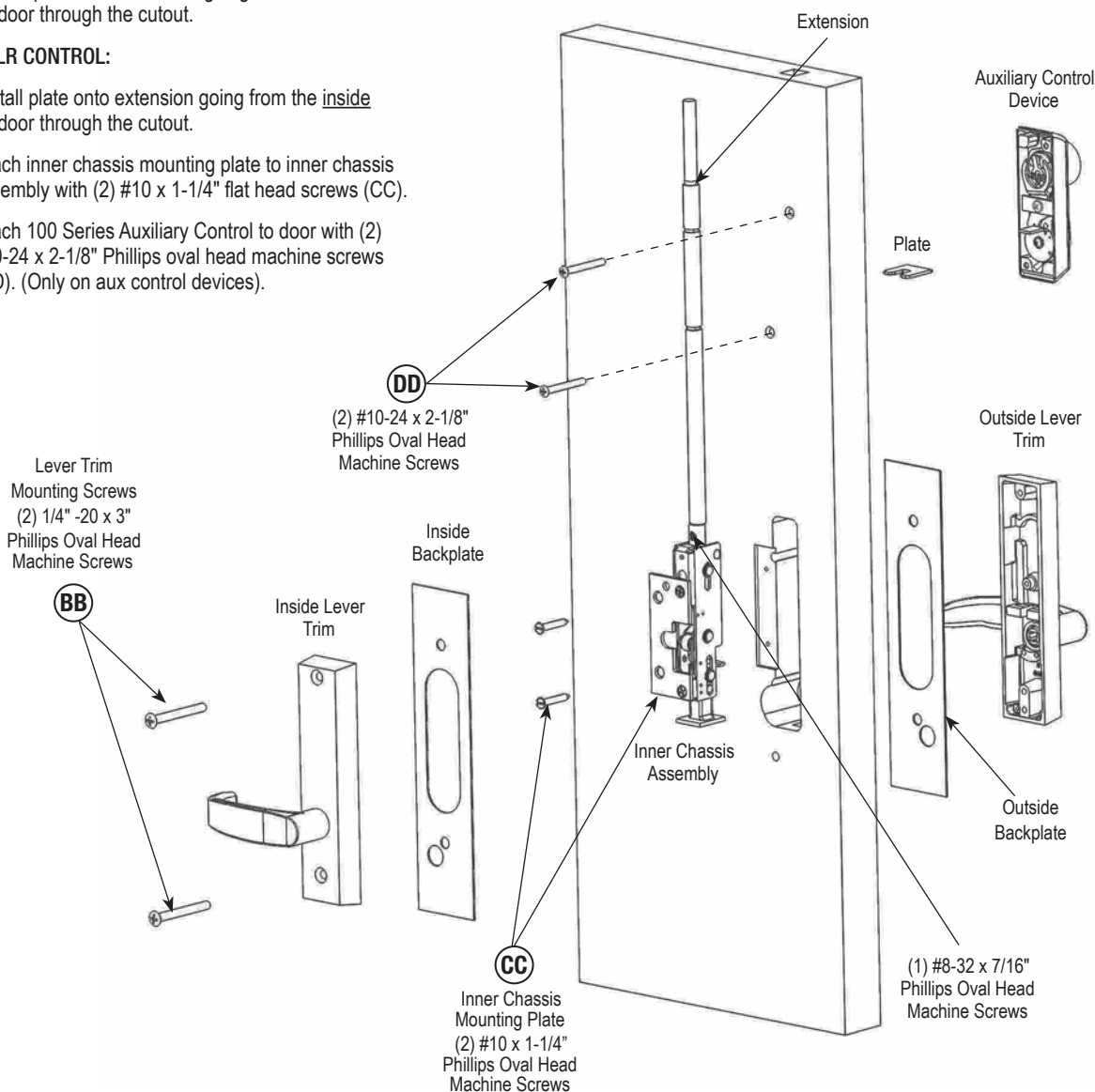
FOR AUXILIARY CONTROL:

- 3a. Install plate onto extension going from the outside of door through the cutout.

FOR ELR CONTROL:

- 3b. Install plate onto extension going from the inside of door through the cutout.
4. Attach inner chassis mounting plate to inner chassis assembly with (2) #10 x 1-1/4" flat head screws (CC).
5. Attach 100 Series Auxiliary Control to door with (2) #10-24 x 2-1/8" Phillips oval head machine screws (DD). (Only on aux control devices).

Figure 9:
WD7000 Trim Assembly
Exploded View



SARGENT®

ASSA ABLOY

7000 Concealed Vertical Rod Device

SARGENT Manufacturing
100 Sargent Drive
New Haven, CT 06511 USA
800-727-5477 • www.sargentlock.com

Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

Copyright © 2015, Sargent Manufacturing Company, an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Sargent Manufacturing Company is prohibited.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.