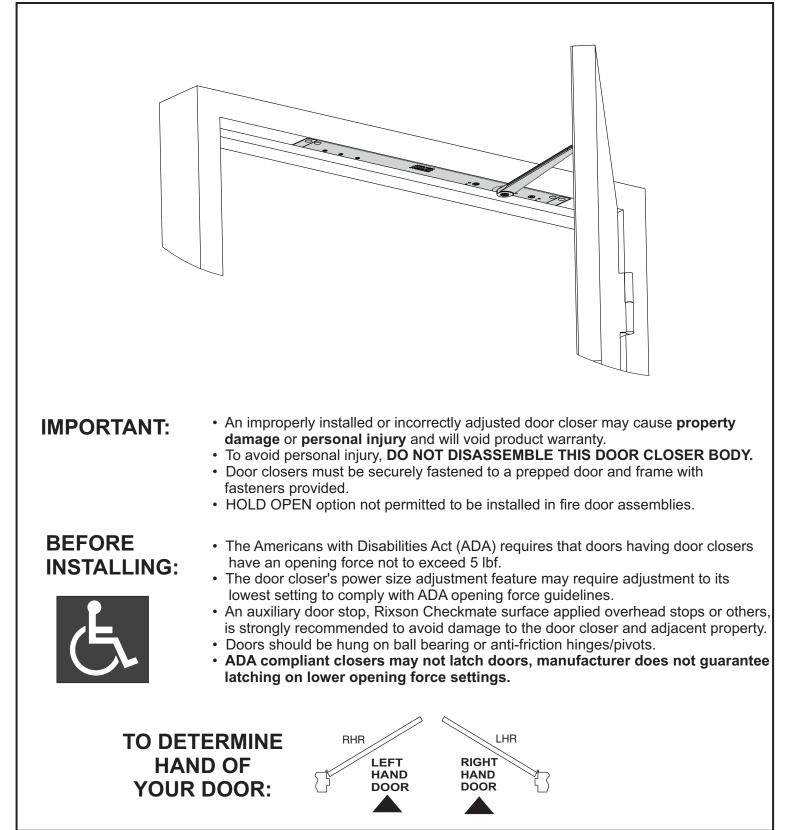


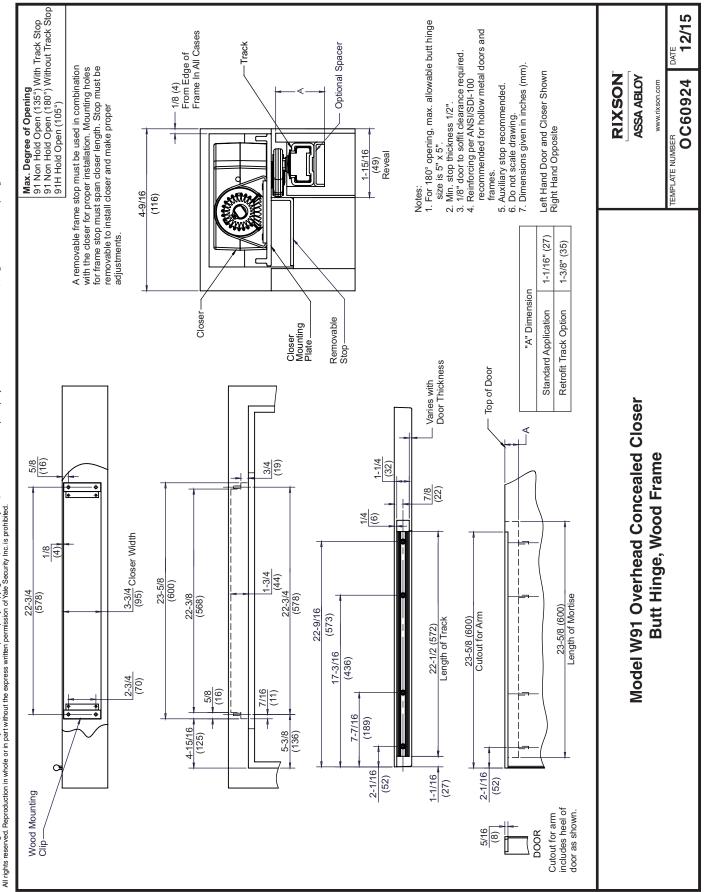
ASSA ABLOY

Model W91 Overhead Concealed Closers Wood Frame Installation Instructions *Butt or 3/4 Offset Pivot Hung, Multi Sized 1-3, 3-6 Non-Hold Open and Hold Open Models

*Other means except 4-1/2" x 4-1/2" or 3/4" offset pivot hung, consult factory.



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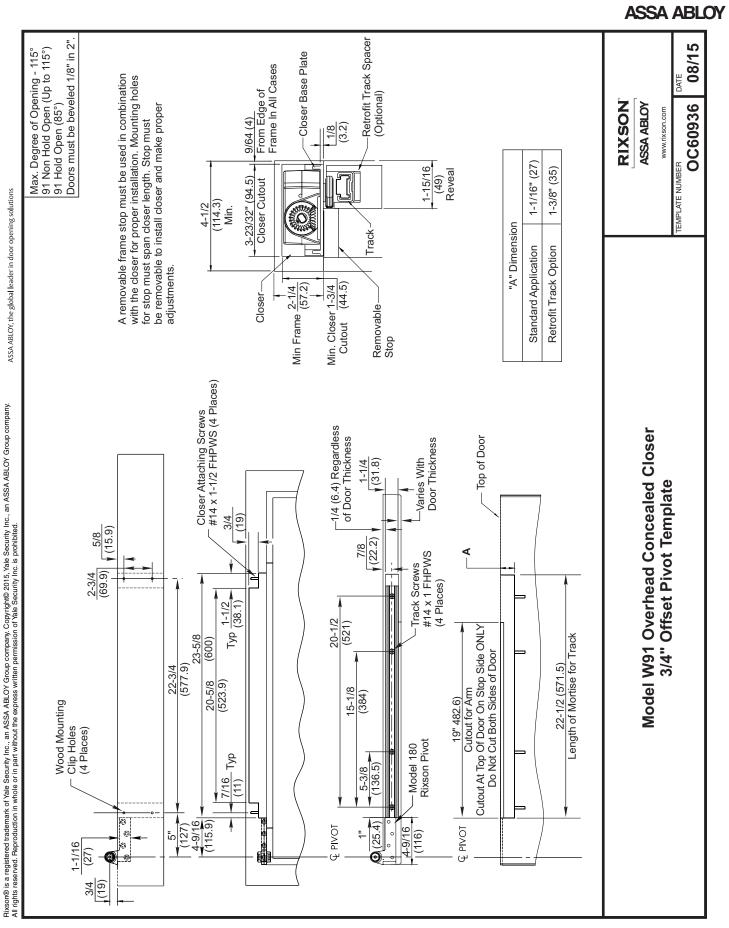
ASSA ABLOY, the global leader in door opening solutions

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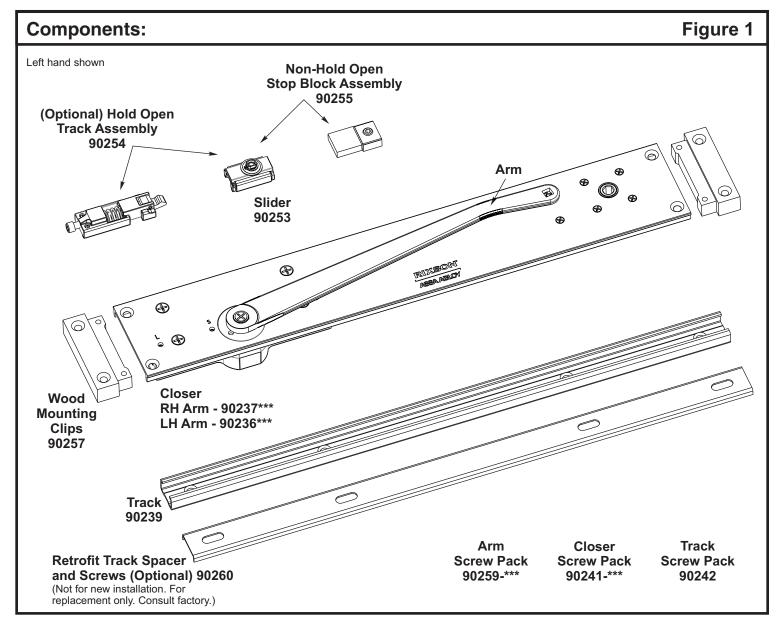
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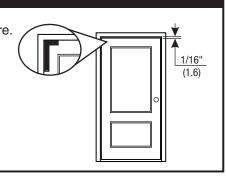
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- It is recommended that the door, in which the door closer will be installed, be hung on ball bearing hinges or pivots. Door must swing freely. For other hanging means a special layout may be required, consult factory.
- A separate Rixson Surface Checkmate[®] or other door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm; or to the door, frame or adjacent walls.
- Door and Frame must be reinforced for attaching screws.
- All dimensions are given in inches with corresponding metric dimensions (millimeters) in parentheses.

Verify Door Installation For Correctness

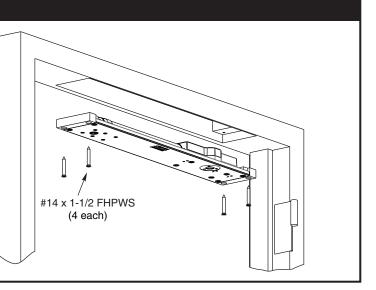
- Make sure the frame is plumb and square by using a carpenters' square.
- Note if the gaps between door and frame are consistent. Gap should be 1/16" at jamb and header.
- Using attached templates, check all dimensions of cut-outs.



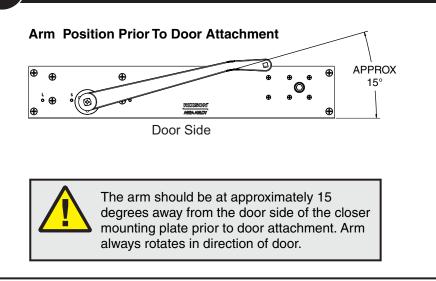
Closer Installation

1

- Left hand door illustrated.
- Attach wood clips to closer body with 1/4-20 x 5/8 FHPMS.
- Install closer with attached wood clips into frame with (4) #14 x 1-1/2 FHPWS mounting screws provided. Mounting plate should be flush with frame soffit.



Check Arm Position

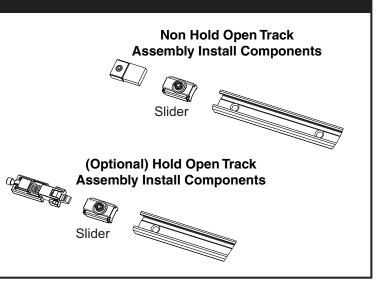


5

Assembly of Track Components

Δ

- Slide track assembly components in track.
- Stop block assembly or (optional) hold open assembly should be mounted towards the hinge side of the track as shown. The longer end of the slider should be pointed towards the hinge end of the track.



)Track Installation

- Be sure to check that the slider and any track assembly components are installed prior to track installation.
- Install track and/or (optional) spacer (replacement application only, consult factory) using provided hardware in prepped door.



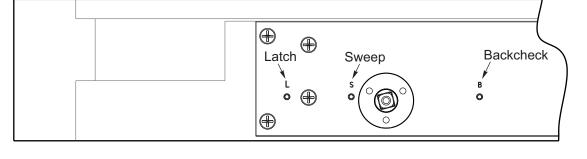


Long end of slider must be oriented toward the hinge/pivot end of door.

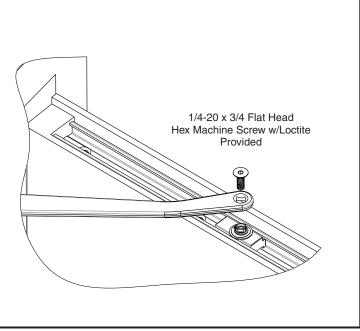
6)Closer/Door Attachment

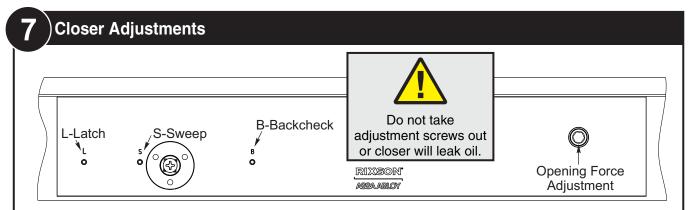
1. With a 1/8" hex wrench, completely tighten the latch and sweep adjustments by turning the screws clockwise. This will allow for an easier closer/door connection.





- 2. Open door to about 45 degrees then rotate arm over to door. The arm should maintain position since the latch and sweep adjustments have been closed.
- 3. Align slider square with arm square and connect the two using the provided screw. If you choose to open the door beyond 45 degrees, note that the backcheck adjustment screw may have to be adjusted counterclockwise to easily rotate arm to door position.





Opening Force Adjustment

Locate opening force adjustment hex. Using 3/8" hex key, adjust opening force prior to sweep and latch adjustments. Size 1-3, 3-6 adjustment, see chart at right.

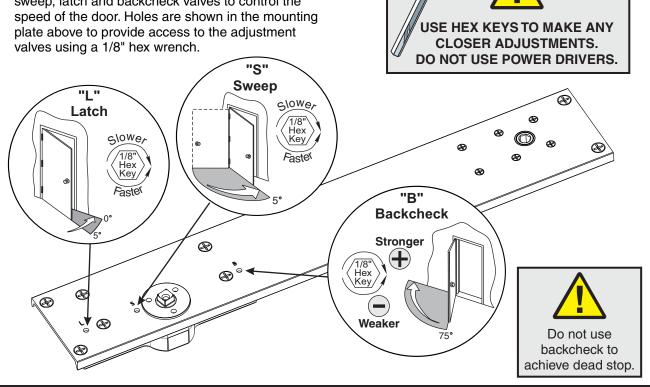
All 91 series closers are factory set to minimum

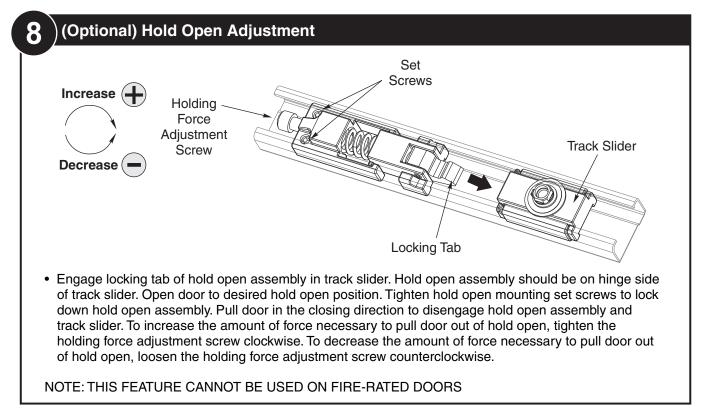
opening force. Adjust closer as necessary for more closing force taking into consideration door size, weight, positive room pressure, etc. A lower opening force means a lower closing force. To achieve stronger closing forces, turn 3/8" hex clockwise. Keep in mind that the opening force will be increased as well.

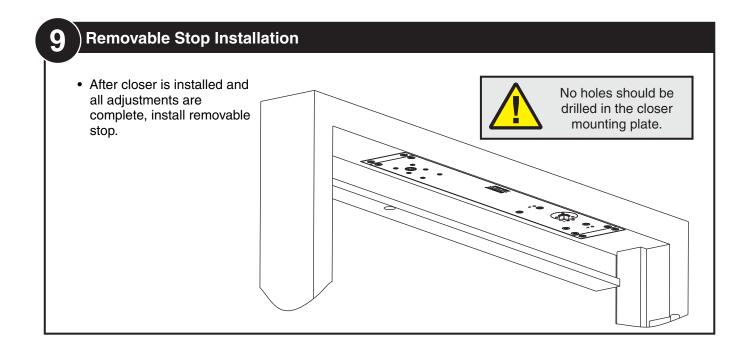
After the opening/closing force has been set to satisfactory forces to close the door, adjust the sweep, latch and backcheck valves to control the

Spring Adjustment				
Model PH91 Sizes 1-3		Model 91 Sizes 3-6		
Closer Size	Approx. # of Turns	Closer Size	Approx. # of Turns	
ADA	0	3	0	
1	15	4	17	
2	30	5	25	
3	55	6	32	

Closer shipped at lowest spring setting.







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Troubleshooting

Symptom	Cause	Remedy
	Spring tension not strong enough.	Use spring adjuster to increase tension. See Step 7.
Door won't latch.	Latch speed control not fast enough.	Adjust latch speed valve. See Step 7.
	Door hung on products other than 4-1/2 x 4-1/2 butts or 3/4 offset pivots.	Send template for the hanging means to the factory. A new installation sheet is required. Closer will need to be relocated.
	Arm is not preloaded.	See Step 6.
Door is too difficult to open.	Spring tension is set too strong.	Use spring adjuster to decrease tension. See Step 7.

