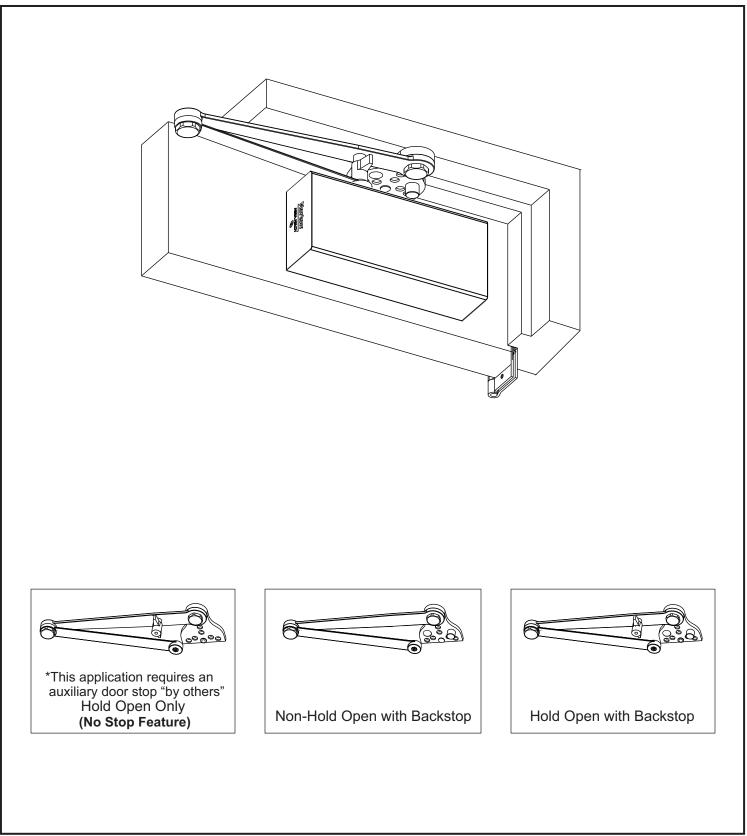


9500 Series Installation Instructions Multi-Sized 1 thru 6 with Heavy Duty Parallel Arms: H.O. without Backstop, N.H.O. with Backstop, H.O. with Backstop

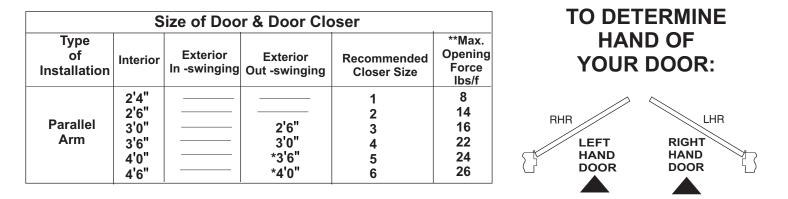


Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited Approved 2024-05-14



IMPORTANT:

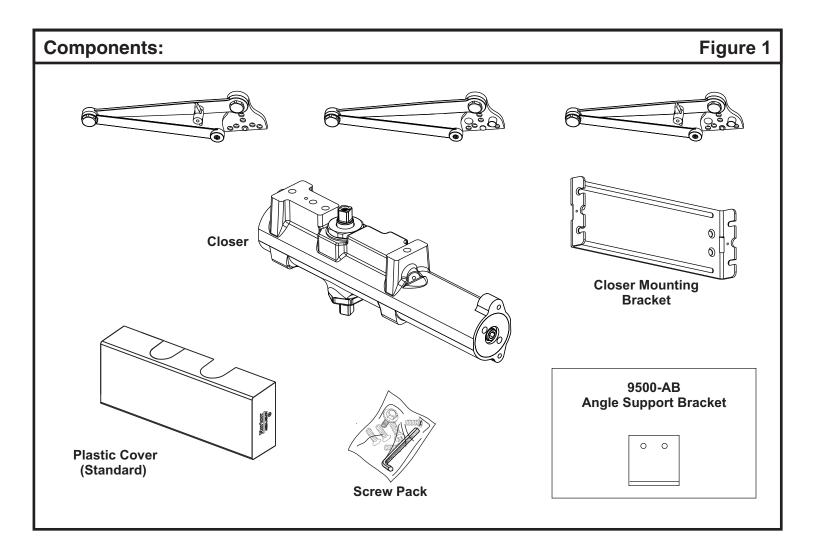
- An improperly installed or incorrectly adjusted door closer may cause property damage or personal injury; and will void product warranty.
- To avoid personal injury, DO NOT DISASSEMBLE THIS DOOR CLOSER BODY.
- Door closers must be securely fastened to a properly reinforced door and frame with fasteners provided.
- Door closers with a HOLD OPEN ARM are not permitted to be installed in fire door assemblies.
- Door and frame must be specifically templated for 85°, 90°, 100° or 110° door swing.
- Doors should be hung on ball bearing or anti-friction hinges/pivots.
- Door closer must not be installed on the exterior of a door in an exterior wall of a building.



**NOTE: These forces are for standard templating with bearing type hinges and do not account for pressure differentials and draft.

Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibite Approved 2024-05-14





Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited Approved 2024-05-14



	Preparation for Fasteners	Figure 2	
	Fasteners	Door or Frame	Drill-Sizes
	#12-14 Self-Drilling Screw	Aluminum or Metal	No drill required
Standard		Wood (see Note) Metal	3/16" (4.30 mm)
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
Optional	Sleeve nuts and bolts 1-9/32" (33) = 1-3/8" (35) Door Thk. 1-21/32 (42) = 1-3/4" (44) & Over Dr. Thk.	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5 mm) through
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

Note: Wood doors/frames: drill 1/8" (3.2) pilot hole when using Self-Drilling Screws.

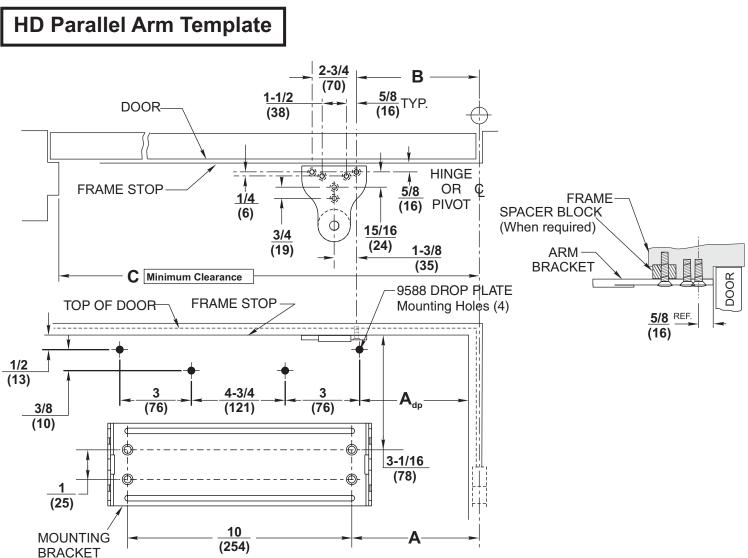
Always consult door/frame manufacturer for fastener compatibility with the material of their door/frame.

[•] It is recommended that the door, on which the door closer will be installed, be hung on ball bearing hinges. Door must swing freely.

[•] A separate door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm; or to the door, frame or adjacent walls.

<sup>Door and Frame must be properly reinforced, or use of special fasteners employed, to prevent the mounting screws from pulling out.
All dimensions are given in inches with corresponding metric dimensions (millimeters) in parentheses.</sup>

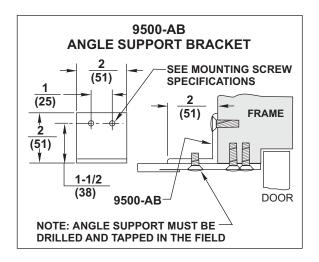




OPENING MAXIMUM	A Mounting Bracket	A _{dp} Drop Plate	B Soffit Bracket	C MINIMUM Clearance
85°	8-3/4 (222)	8-3/8 (213)	12-7/16(316)	28-7/8 (733)
90°	7-3/4 (197)	7-3/8 (187)	11-1/2 (292)	28 (711)
100°	6-1/4 (159)	5-7/8 (149)	10 (254)	26-3/8 (670)
110°	4-7/8 (124)	4-1/2 (114)	8-5/8 (219)	25-1/8 (638)

NOTES:

- Check hand of door, see page 2.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed mounted level to ensure proper closer performance.



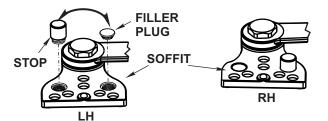
Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibite Approved 2024-05-14



HD Parallel Arm Installation Sequence

- Prepare door and frame for fasteners using "Preparation for Fasteners" chart, Figure 2, Page 4.
- Fasten Closer Mounting Bracket to door. Fasten optional drop plate to door, only if it is required for the door conditions.
- Install closer body with tube end TOWARDS hinge, with valves:
 DOWN for Left Hand door / UP for Right Hand door.
- NHO and HO Arms with Backstop Only (Arms shipped for Left Hand Door)

To change handing:



- Attach arm to door frame.
- Connect arm to closer. Using hex wrench provided, turn closing speed and latching speed valves clockwise until completely closed. DO NOT OVER TIGHTEN. Open door to approximately 60°. Using wrench on underside of spindle, rotate spindle approximately 135° toward hinge edge of door. Install arm on spindle at an approximate 90° angle to door. Reopen CLOSING SPEED VALVE. Install and tighten 5/16 Hex Head Arm Washer and Screw Assembly.

LEFT HAND DOOR SHOWN BELOW ALL ANGLES SHOWN ARE APPROXIMATE 90 0000 ARM 60° 90° 135° DOOR í e Rotate 135° Ø WRENCH SPINĎLE ARM ୭ SPINDLE AT REST CENTERLINE SPINDLE ROTATED 135°

 Make closer adjustments using information on page 7, then install closer cover.

Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited Approved 2024-05-14



Unit Adjustment



Spring Power Adjustment

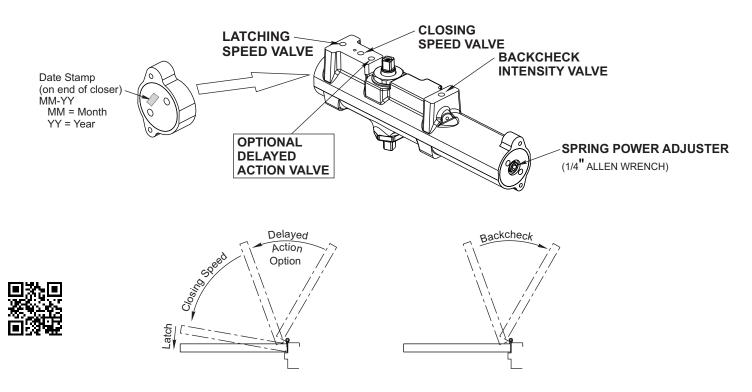
Locate spring power adjuster from Illustration below

Size 1 thru 6 Adjustment See Chart

SPRING POWER ADJUSTMENT CHART

- All 9500 closers are factory set at an approximate Size 3.
- Adjust closer as necessary for door size using this chart.
- Readjustment may be required to suit prevailing conditions.

	Size of D	Spring Power		
Interior	Exterior In Swing	Exterior Out Swing	Adjustment No. Full Turns Clockwise	Equivalent Closer Size (Approx.)
2'4" (712)	2'6" (764)		2-7	3
2'6" (764)	3'0" (915)		7-11	4
3'0" (915)	3'6" (1067)	2'6" (764)	11-15	5
3'6" (1067)	4 ' 0 '' (1219)	3'0" (915)	15-17	6



Closing Speed Valve (1/8 Allen Wrench Provided)

Factory preset for typical doors.

To adjust speed of door closing from fully open to a position 2" to 5" from closed, turn Closing Speed Valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing.

Latching Speed Valve (1/8 Allen Wrench Provided)

Factory preset for typical doors.

After closing speed has been obtained, turn latching speed valve CLOCKWISE to SLOW latching or COUNTER-CLOCKWISE to SPEED latching for last 2" to 5" of door travel.

NOTE: Set combination of CLOSING and LATCHING speeds to between 3 and 7 seconds Use of door by handicapped, elderly or small children may require even greater closing time.

Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited Approved 2024-05-14

Delayed Action Valve (1/8 Allen Wrench Provided)

Factory preset for typical doors.

Turn valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing. Delayed action may be adjusted from 20 seconds to 90 seconds, depending on degree of door swing. Delay occurs at the beginning of the door closing cycle from fully open down to 70°, where the closing speed valve then begins its control.

Backcheck Intensity Valve

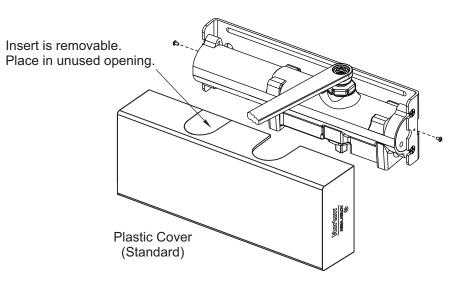
Factory preset for typical doors.

Turn valve COUNTER-CLOCKWISE to reduce backcheck or CLOCKWISE to increase backcheck. (Backcheck should be set to give a soft cushioning action, not a sudden stop.)

Installing Cover

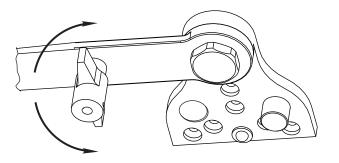


- Slip cover over closer.
- Hold tightly against Closer Mounting Bracket surface.
- Secure on each side with 6-32 x 1/4" screws.



Hold Open Operation

A quarter turn of the tee handle in either direction engages or disengages the hold open feature.





Copyright © 2013, 2018, 2024, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited proved 2024-05-14

ASSA ABLOY, the global leader in door opening solutions 80-9395-9512-020 Rev 3 (05-24)