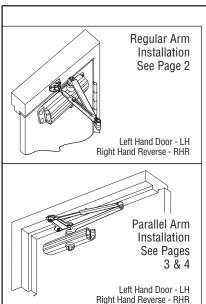


# 5300 Series Door Closer Installation Instructions

Grade 1 Meets ANSI A156.4





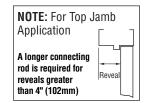
An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

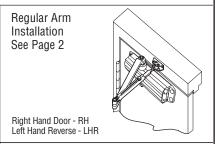
**NOTE:** For special applications, a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for

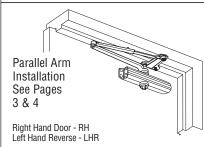
 Dimensions are based on standard doors and frames with 1/8" clearance, 5/8" stops, and square edge doors.

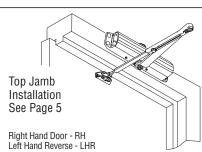
installation sequence and closer adjustments only.

- Door and frame must be properly reinforced.
- Non-Handed Door Closers.

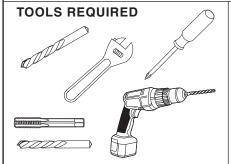








• These door closers should **NOT** be installed on the exposed side (weather side) of exterior doors.



Top Jamb

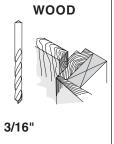
Installation

See Page 5

Left Hand Door - LH

Right Hand Reverse - RHR





Self Drilling Screws
Wood and Metal

For wood, drill 3/16" hole

Machine Screws

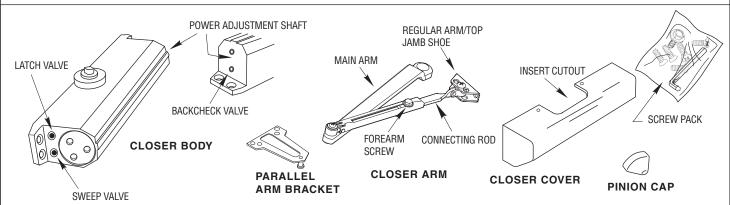
Sleeve Nut and Bolt

Drill 9/32\* thru from Closer Side

Orill 9/32" thru from Closer Side 3/8" Drill other Side

Check building and fire codes to see if your application requires the use of sleeve nuts and bolts.

### **COMPONENT PARTS**

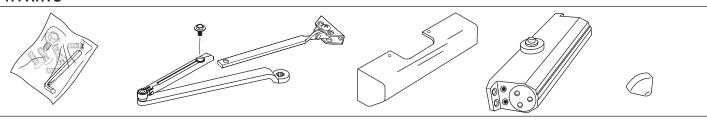




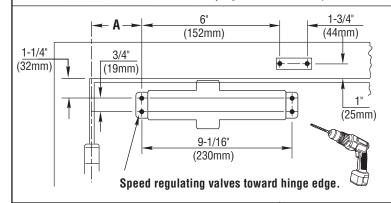
# 5300 Series Non-Hold Open Door Closer - Regular Arm Installation Instructions

Meets ANSI A156.4

# 1. PARTS



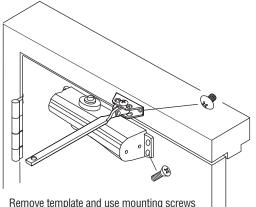
# 2. MARK AND DRILL HOLES (Right Hand Shown)



Door Opening	Dimension "A"		
To 100	7" (178mm)		
101 to 120	6" (152mm)		
121 to *180	3-1/2" (89mm)		

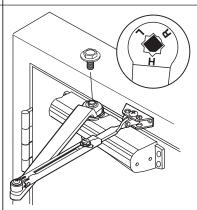
\*Door/Wall/Hardware/Jamb conditions permitting Select hand of door and degree of door opening. Fold template on the corresponding line for desired degree of door opening and hand. Match this line with the hinge edge of door and attach template to door. Be sure frame line on template lines up with the bottom edge of frame face. Mark, prep and drill/tap 1/4" - 20 holes for closer body and jamb shoe mounting screws.

#### 3. INSTALL CLOSER



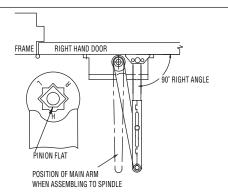
Remove template and use mounting screws to install the closer body to the door and the jamb shoe to the frame. Closer body should be oriented so that the speed regulating valves are toward the hinge stile of door.

# 4. INSTALL MAIN ARM



Orient main arm so that the "H", located on the main arm, lines up with the flat on the spindle. Press arm down on spindle and secure with spindle bolt.

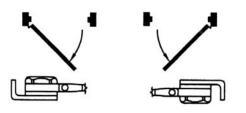
# 5. INSTALL MAIN ARM AND CONNECTING ROD



Slide connecting rod into forearm of main arm. Rotate main arm until connecting rod is at a 90° angle to frame. While holding arm in this position, tighten down forearm screw.

# 6. OPTIONAL HOLD-OPEN ARM

Identify direction of hold-open nut according to hand of door and mount arm.



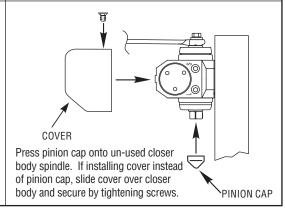
Adjust by loosening hold-open nut, then open door to desired position and tighten hold-open nut securely.

# 7. ADJUSTMENTS

See Adjustments on Page 6 for setting Spring Power, Sweep Speed, Latch Speed, and Backcheck.

**NOTE:** Do not fully unscrew valves or hydraulic fluid will leak and closer will no longer be functional.

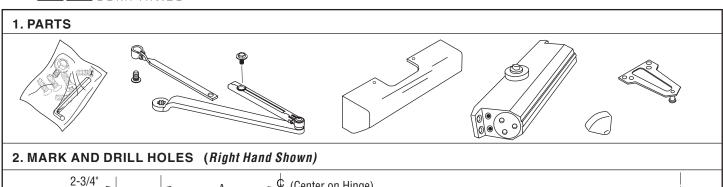
# 8. INSTALL COVER / PINION CAP

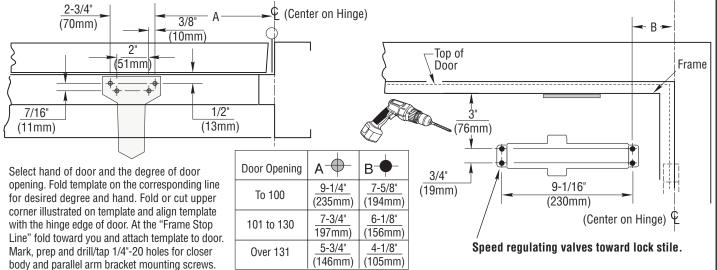


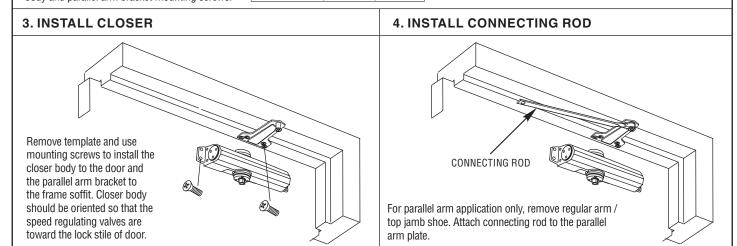


# 5300 Series Non-Hold Open Door Closer - Parallel Arm Installation Instructions

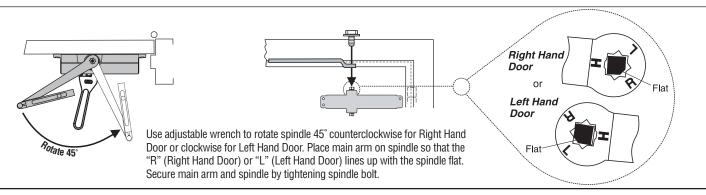
Meets ANSI A156.4







# **5. INSTALL MAIN ARM**

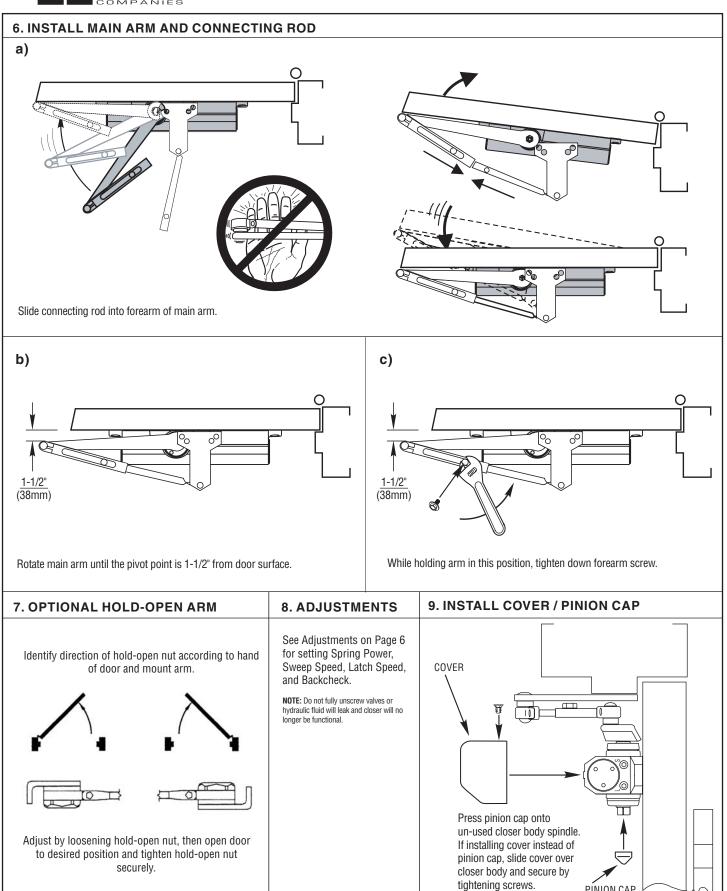




# 5300 Series Non-Hold Open Door Closer - Parallel Arm **Installation Instructions**

Meets ANSI A156.4

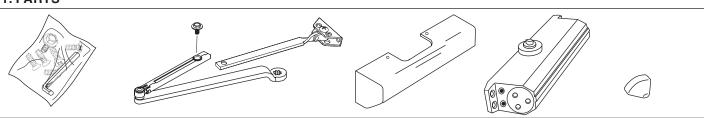
PINION CAP



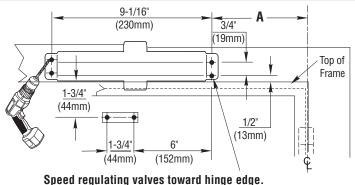
# 5300 Series Door Closer - Top Jamb Arm Installation Instructions

Meets ANSI A156.4

#### 1. PARTS



# 2. MARK AND DRILL HOLES (Right Hand Shown)



*Door/Wall/Hardware/Ja	mt
conditions permitting	Γ

Door Opening

To 100

101 to 120

121 to \*180

Dimension "A"

7-1/2"

(191mm)

(152mm)

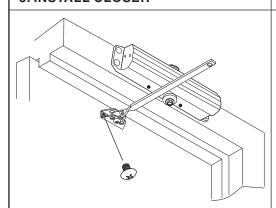
3-1/2"

(89mm)

A longer connecting rod is required for reveals greater than 4" (102mm)

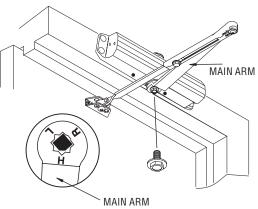
Select hand of door and the degree of door opening. Separate template sections "A" and "B". Fold template on the corresponding line for desired degree and hand. Match this line with the hinge edge of door and attach template to door. Be sure "Frame" line on template lines up with the top edge of door. Using a square, project "Closer Projection Line" on section "A" of template onto frame and use to align and attach section "B". Be sure to align bottom edge of section "B" with edge of frame. Mark, prep and drill/tap 1/4"- 20 holes for connecting rod shoe and closer body mounting screws.

# 3. INSTALL CLOSER



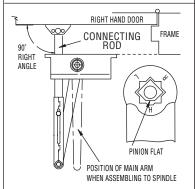
Remove template and use mounting screws to install the closer body to the top jamb and the connecting rod shoe to the door. Closer body should be oriented so that the speed regulating valves are toward the hinge stile of door.

# 4. INSTALL MAIN ARM



Orient main arm so that the "H", located on the main arm, lines up with the flat on the spindle. Press arm down on spindle and secure with spindle bolt.

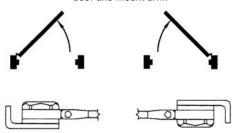
# 5. INSTALL MAIN ARM AND CONNECTING ROD



Slide connecting rod into forearm of main arm. Rotate main arm until connecting rod is at a 90° angle to frame. While holding arm in this position, tighten down forearm screw.

# 6. OPTIONAL HOLD-OPEN ARM

Identify direction of hold-open nut according to hand of door and mount arm.



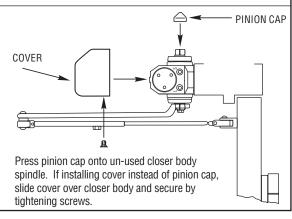
Adjust by loosening hold-open nut, then open door to desired position and tighten hold-open nut securely.

# 7. ADJUSTMENTS

See Adjustments on Page 6 for setting Spring Power, Sweep Speed, Latch Speed, and Backcheck.

**NOTE:** Do not fully unscrew valves or hydraulic fluid will leak and closer will no longer be functional.

# 8. INSTALL COVER / PINION CAP





# **5300 Series Door Closer - Adjustments**Installation Instructions

Meets ANSI A156.4

# ADJUSTMENTS (USE 5/32" HEX WRENCH FOR THESE ADJUSTMENTS)

**LATCH SPEED** 

# SWEEP SPEED

**Note:** Adjust closing time speed to between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.

Adjust latch speed so door completely closes and latches.

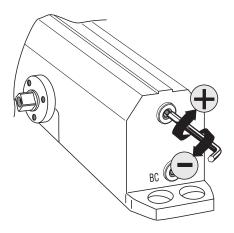
# BC BC THE STATE OF THE STATE OF

**BACKCHECK** 

Adjust backcheck accordingly to prevent excessive opening speed.

# Adjust delay action accordingly to obtain desired delay time.

# SPRING POWER ADJUST (Sizing in accordance to BHMA/ANSI 156.4)



(Use 5/32" Hex Wrench for this adjustment)

#### **TABLE OF SIZES**

Closer is shipped set to size 3. To change the closer size, use a hex wrench to rotate the spring power adjust. Follow the chart to make the correct numbers of 360° turns to set the closer size appropriately for the door application.

The number of turns is an approximation and does not account for environmental or door hardware affects.

Approx. 5 turns to increase / decrease one size.

cw = clockwise ccw = counterclockwise

# Exterior (and Vestibule) Door Width

_	Minimum Door Width (24")					
24" - 30" - 36" - 42" - 48" (610mm) (762mm) (914mm) (1067mm) (1219mm)						
Regular Arm & Top Jamb	Size 3 (0)	Size 4 (5cw)	Size 5 (10cw)	Size 6 (15cw)		
Parallel Arm	Size 3	Size 4 (10cw)	Size 5 (15cw)			

#### Interior Door Width

		IIII	D D D D D D D D D	wium		
		Minimu	m Door Wid	dth (24")		
24" -	30" -	34" -	38" -	- 48" <b>-</b>	54" ·	- 60"
(610mm)	(762mm)	(865mm)	(965mm)	(1219mm)	(1372mm)	(1524mm)

Regular Arm & Top Jamb

Size 1	Size 2	Size 3	Size 4	Size 5	Size 6
(10ccw)	(5ccw)	(0)	(5cw)	(10cw)	(15cw)
Size 1 (5ccw)	Size 2 (0)	Size 3 (5cw)	Size 4 (10cw)	Size 5 (15cw)	

# **ADJUSTMENT DIAGRAM**

# SWEEP BACKCPICOR CLOSED

# **ARM PLACEMENT IN SHOE**

