

# Yale®

## Installation Instructions

80-9350-2502-010 (05-12)

## Non Hold Open Models

**Sized**  
(Sizes 2,3,4,5,6)

**Adjustable**  
(Sizes 3 thru 6)

Weaker

**52BC**

**53BC**

**54BC**

**55BC**

**56BC**

**51**

(Sizes 1 thru 4)

**51BF**



**CAUTION** 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.

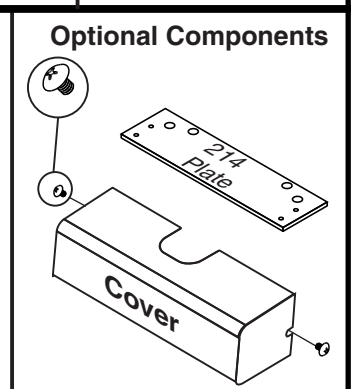
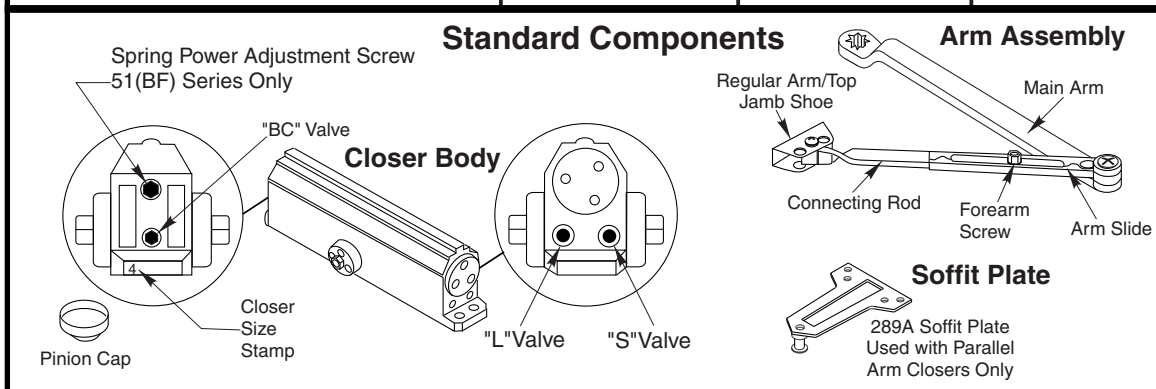
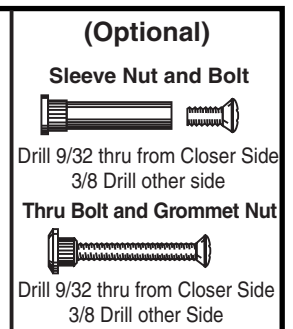
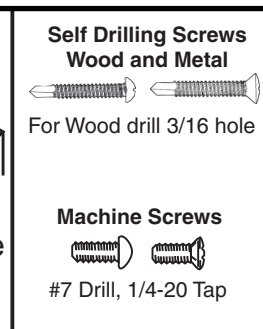
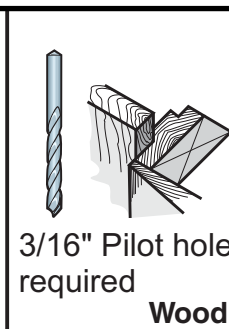
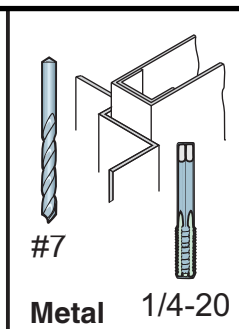
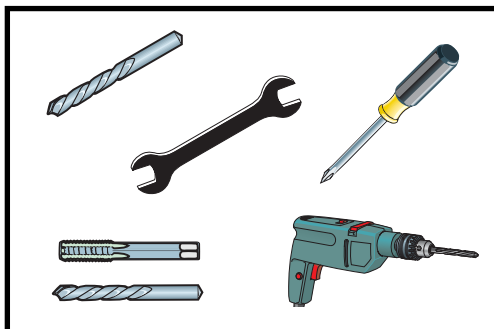
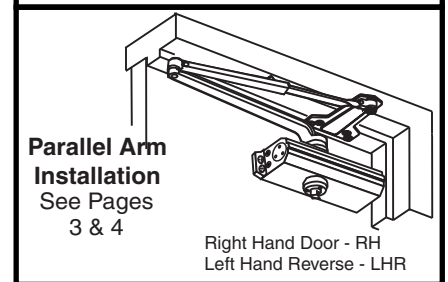
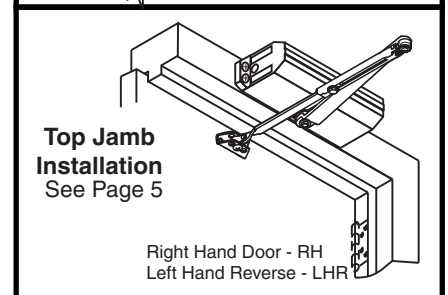
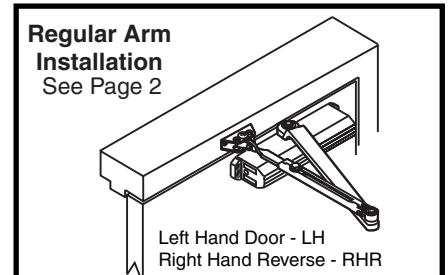
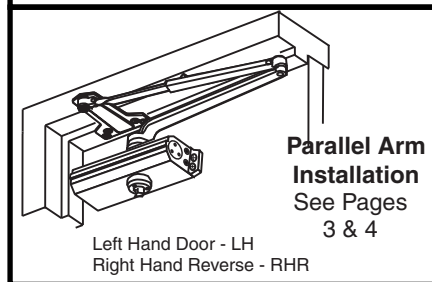
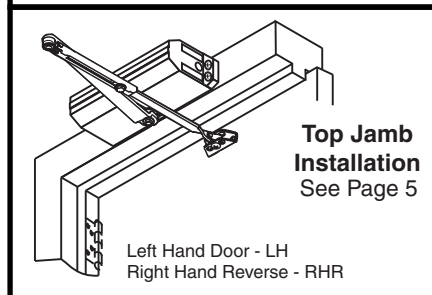
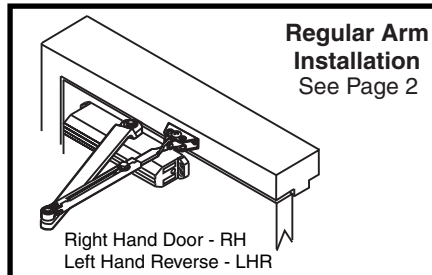
## Tri-Pack 50 Series

### Non Handed Door Closer

"DL" suffix (Delayed Action) is an optional feature. A separate sheet is supplied showing closer adjustments.

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

- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.
- Door and frame must be properly reinforced.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°.
- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.



# 50 Series

## Non Hold Open Door Closers — Regular Arm

80-9350-2502-010 (05-12)

### 1 Parts

Optional Cover

### 3

90° E

Stronger +  
Weaker -

51(BF) Only  
Spring Power Adjust  
(If Necessary)

### Backcheck

Stronger +  
Weaker -

**Caution:**  
Don't completely  
close valve

### 2

**Right Hand Shown**

| Opening        | Dimension "A"        | Inches (mm) |
|----------------|----------------------|-------------|
| To 100°        | $\frac{7}{(178)}$    |             |
| 101° to 120°   | $\frac{6}{(152)}$    |             |
| * 121° to 180° | $\frac{3-1/2}{(89)}$ |             |

\* Door/Wall/Hardware/Jamb conditions permitting

### 4 Sweep

Slower -  
Faster +

### 5 Latch

Faster +  
Slower -

### 6

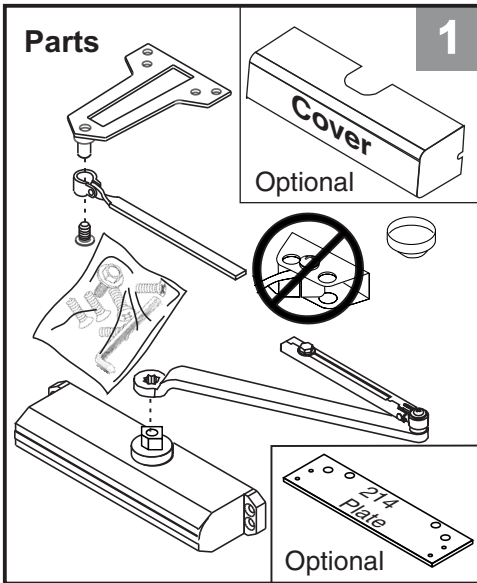
### 7 Pinion Cap or Optional Cover

(2)

# 50 Series

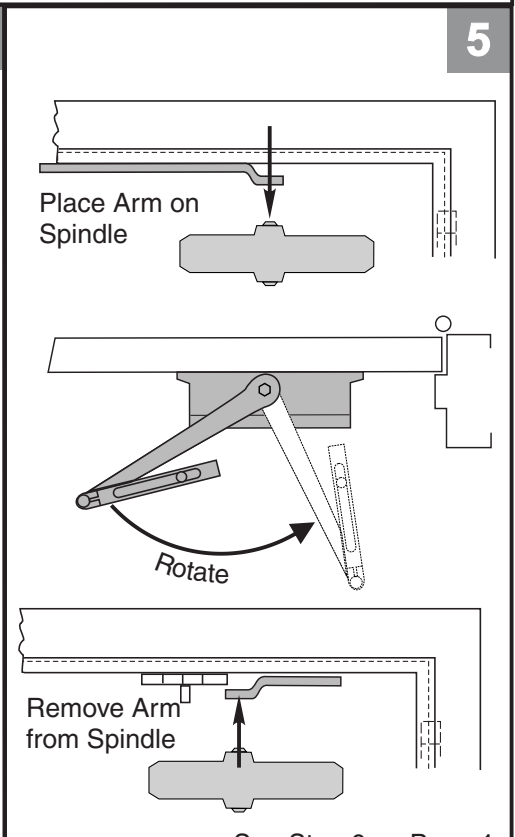
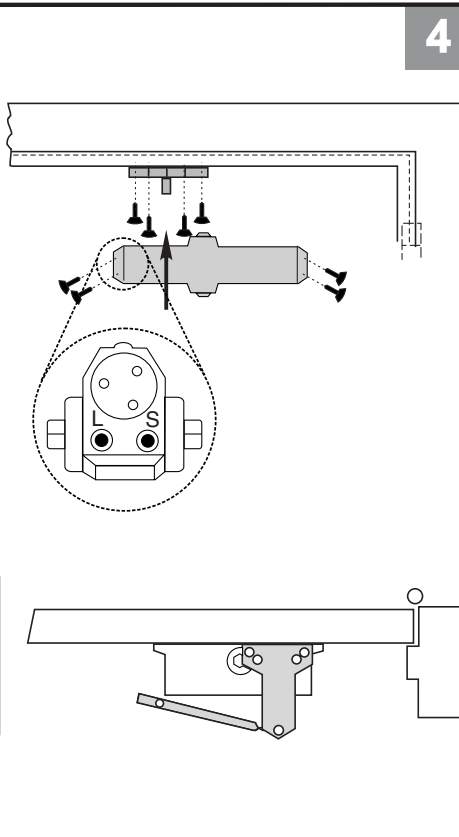
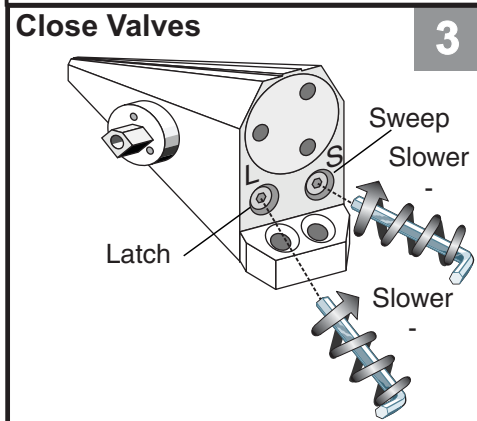
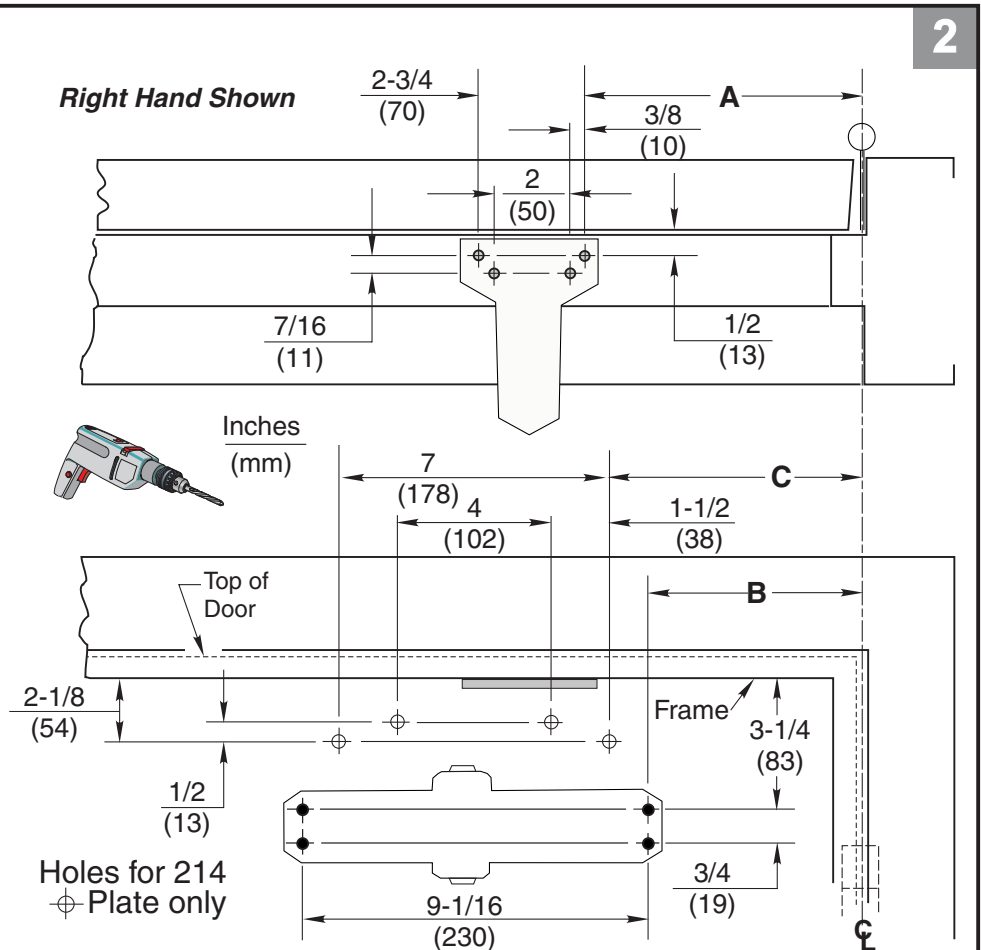
## Non Hold Open Door Closers — Parallel Arm

80-9350-2502-010 (05-12)



| Door Opening  | A              | B              | C              |
|---------------|----------------|----------------|----------------|
| To 100°       | 9-1/4<br>(235) | 7-5/8<br>(194) | 8-5/8<br>(219) |
| 101° to 130°  | 7-3/4<br>(197) | 6-1/8<br>(156) | 7-1/8<br>(181) |
| *131° to 180° | 5-3/4<br>(146) | 4-1/8<br>(105) | 5-1/8<br>(130) |

\* Door/Wall/Hardware/Jamb conditions permitting

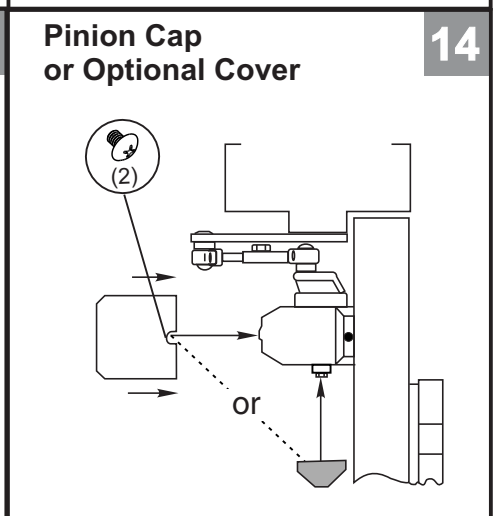
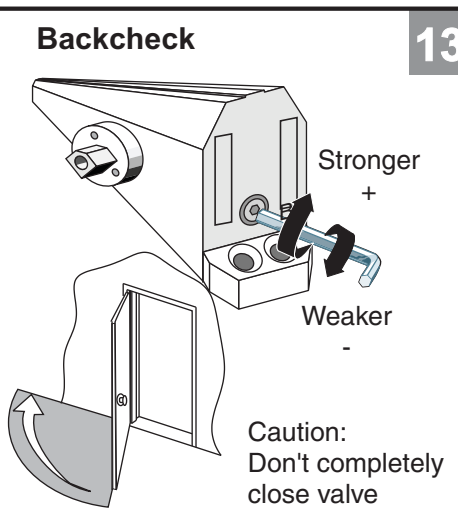
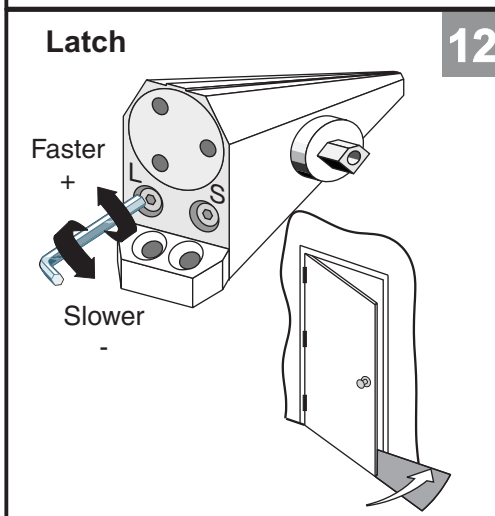
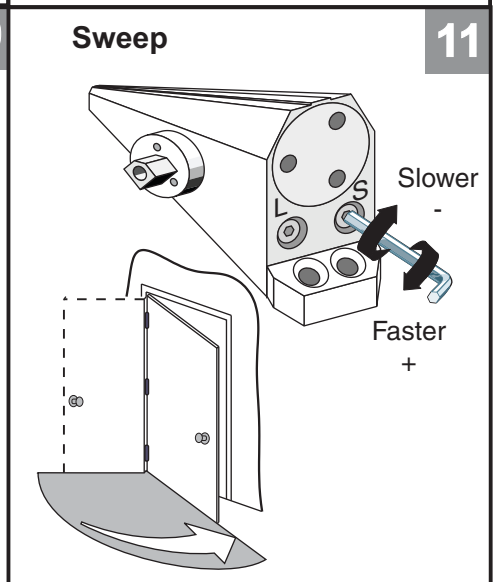
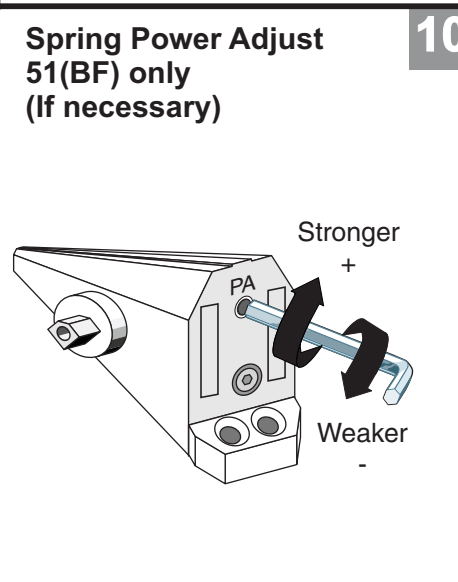
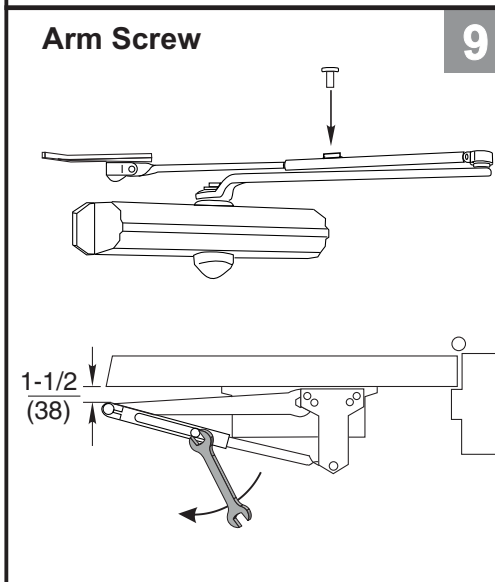
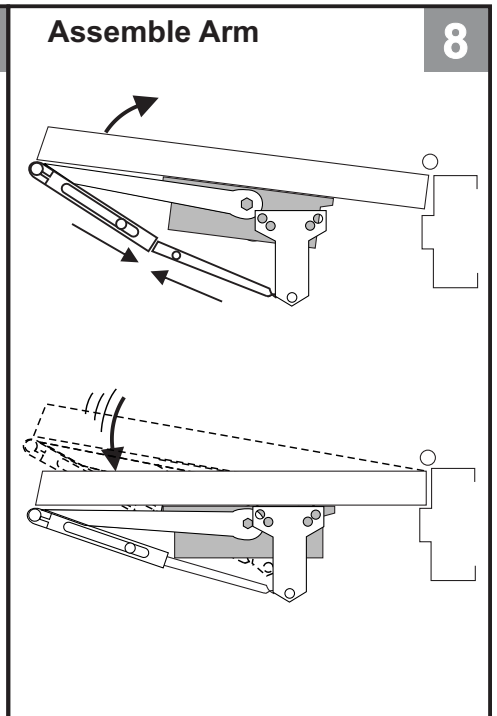
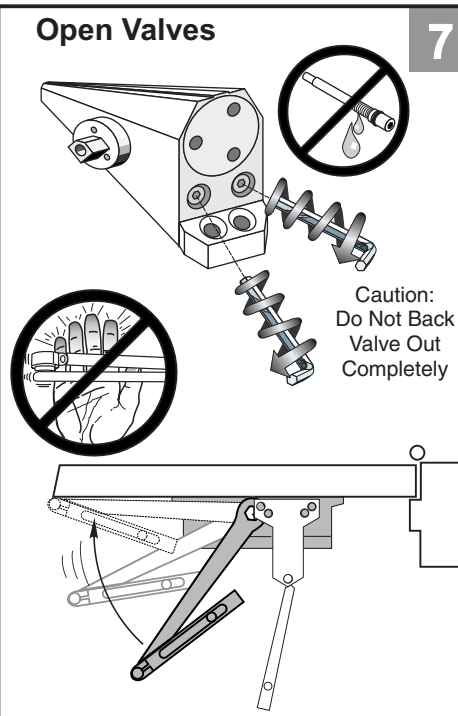
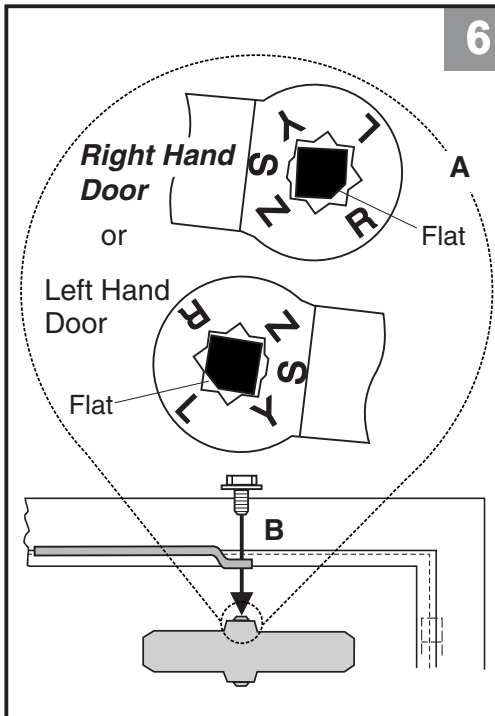


See Step 6 on Page 4

# 50 Series

## Non Hold Open Door Closers — Parallel Arm

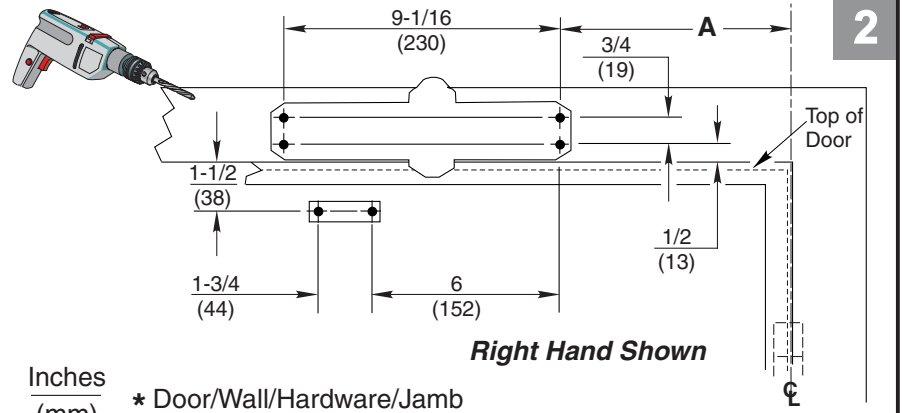
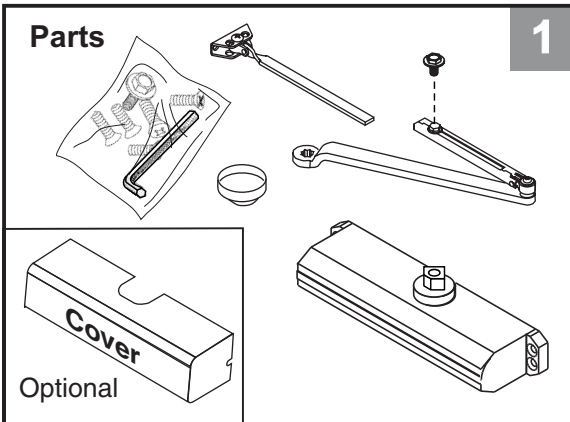
80-9350-2502-010 (05-12)



# 50 Series

## Non Hold Open Door Closers — Top Jamb Arm

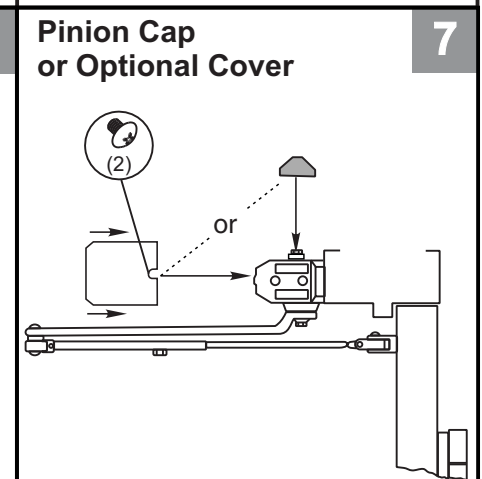
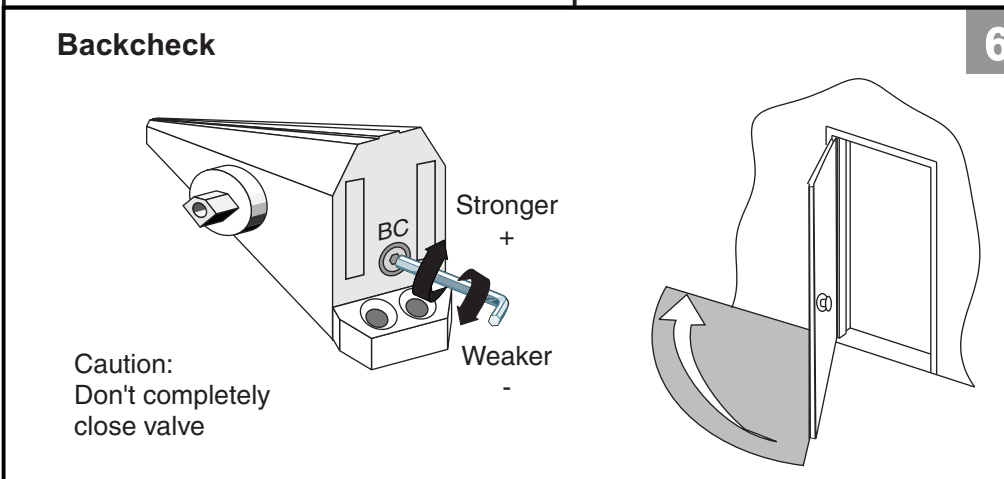
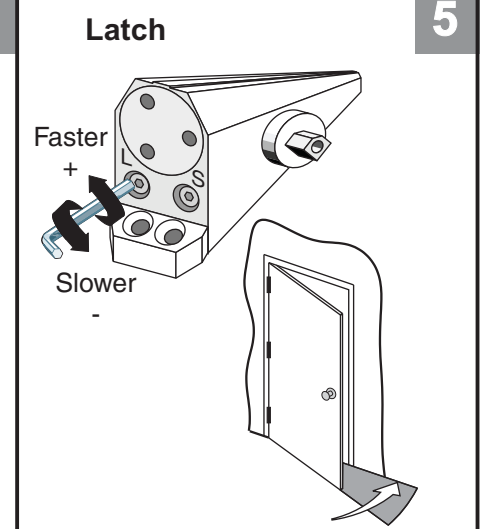
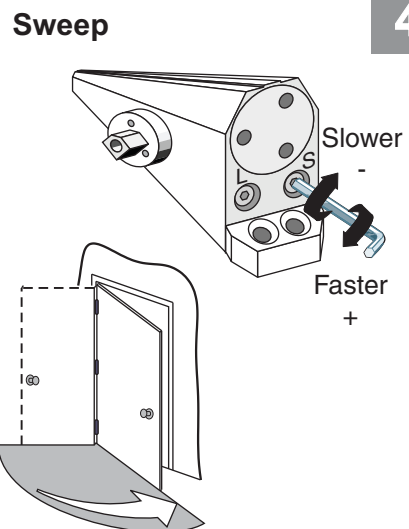
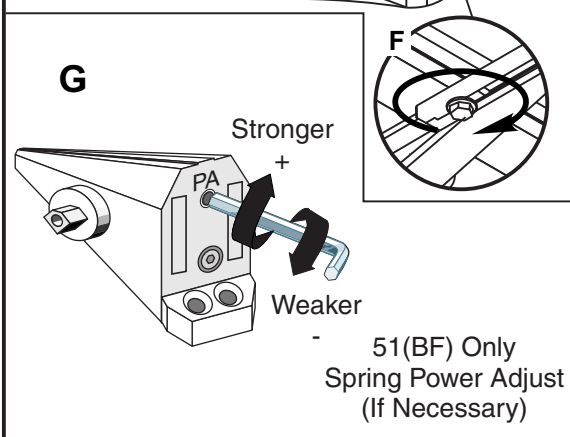
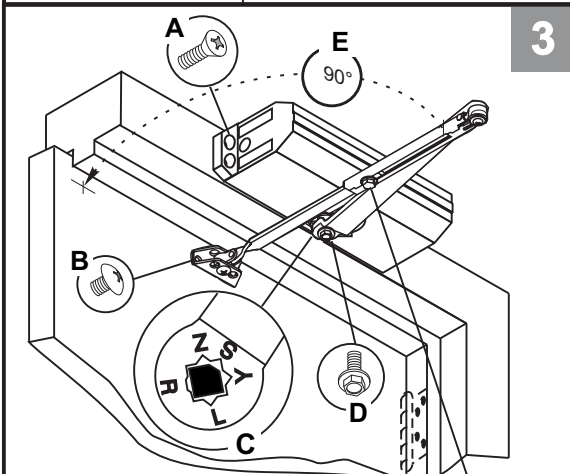
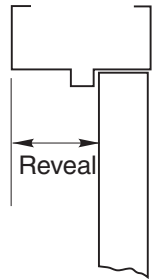
80-9350-2502-010 (05-12)



Inches (mm) \* Door/Wall/Hardware/Jamb conditions permitting

| Opening       | Dimension "A" |
|---------------|---------------|
| To 100°       | 7-1/2 (191)   |
| 101° to 120°  | 6 (152)       |
| *121° to 180° | 3-1/2 (89)    |

A longer connecting rod is required for reveals greater than 3" (76)



# 50 Series Adjustments

80-9350-2502-010 (05-12)

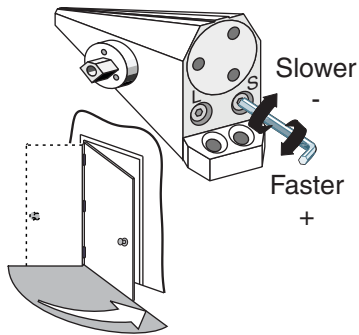
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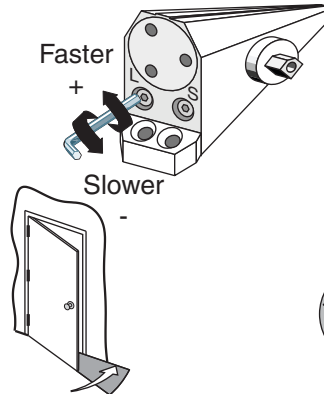
3000 Highway 74 East • Monroe, NC 28112  
Tel: (800)-438-1951 • Fax: (800)-338-0965  
www.yalecommercial.com

## Sweep

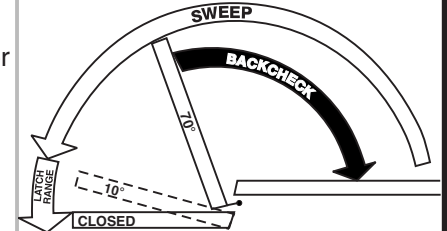
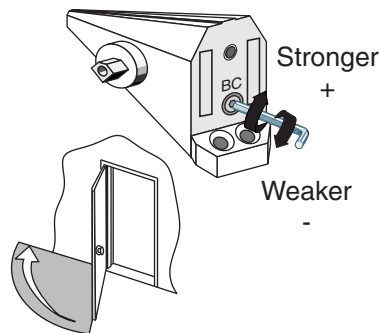


## Latch

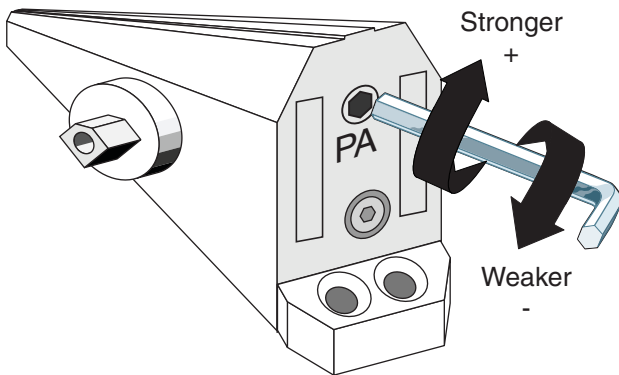
(Use 1/8" Hex Wrench for these Adjustments)



## Backcheck



## Spring Power Adjust 51 (BF) only



(Use 3/16" Hex Wrench for this Adjustment)

## Adjustment Chart

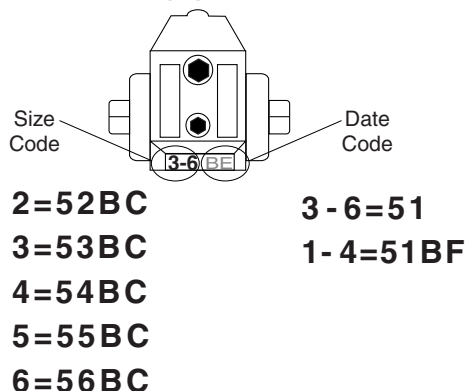
Number of Turns Required

|      | DOOR     | TYPE OF INST.        | *                                               | MAXIMUM DOOR SIZE |             |             |                        |             |
|------|----------|----------------------|-------------------------------------------------|-------------------|-------------|-------------|------------------------|-------------|
|      |          |                      |                                                 | 34" (0.85M)       | 36" (0.90M) | 40" (1.00M) | 44" (1.10M)            | 48" (1.20M) |
| 51BF | INTERIOR | Regular Arm Top Jamb | FULL 360° TURNS OF 3/16 POWER ADJUSTMENT WRENCH | 1                 | 1           | 2           | 3                      | 3           |
|      |          | Parallel Arm         |                                                 | 2                 | 2           | 3           | 4                      | 5           |
|      | EXTERIOR | Regular Arm Top Jamb |                                                 | 5                 | 6           | **8         | NOT RECOMMENDED USE 51 |             |
|      |          | Parallel Arm         |                                                 | **8               | 9           | 12          |                        |             |
| 51   | INTERIOR | Regular Arm Top Jamb | FULL 360° TURNS OF 3/16 POWER ADJUSTMENT WRENCH | 2                 | 4           | 6           | 9                      | 11          |
|      |          | Parallel Arm         |                                                 | 3                 | 5           | 7           | 10                     | 13          |
|      | EXTERIOR | Regular Arm Top Jamb |                                                 | 3                 | 5           | 7           | 10                     | 13          |
|      |          | Parallel Arm         |                                                 | 5                 | 7           | 10          | 14                     | 16          |

\*18 FULL (360°) TURNS MAXIMUM AVAILABLE

\*\* AS SHIPPED FROM FACTORY

## To identify your model:



## Arm Placement in Shoe

