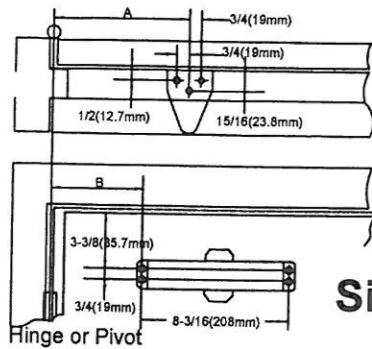
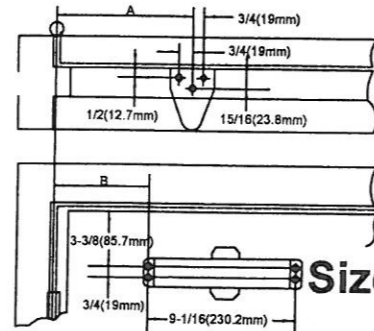


Surface Mounted  
 Model : TDC 50 Series  
 Size:2,3,4,5  
 Optional Backcheck

Installation Instructions for PARALLEL ARM (PUSH SIDE) Mounting  
 THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENING.  
 Parallel bracket accessory required



Size: 2&3



Size: 4&5

Left hand door shown  
 Right hand door shown  
 Dimensions are in inches  
 Do not scale drawing

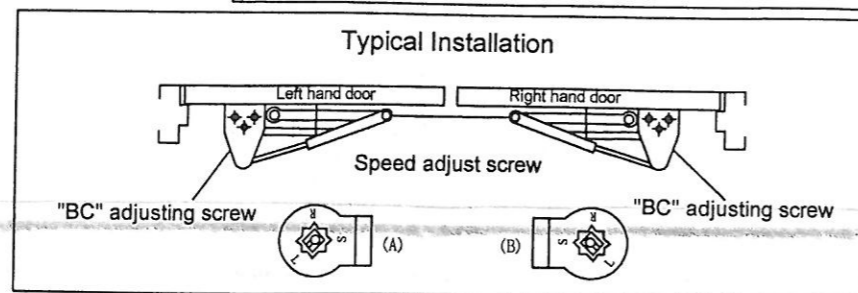
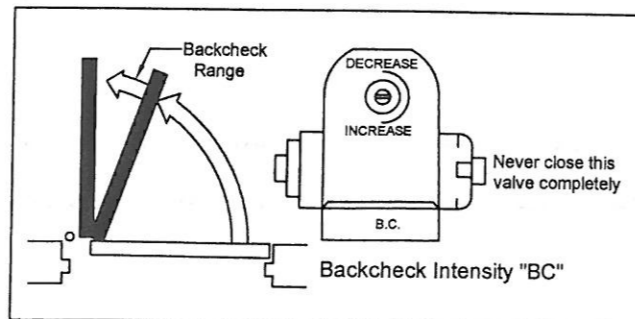
OPENING	DIM.A TDC52P,53P	DIM.B TDC52P,53P	DIM.A TDC54P,55P	DIM.B TDC54P,55P
To120°	10-3/4(273mm)	7-13/16(198.4mm)	10-3/4(273mm)	15-1/8(176.2mm)
120° -180°	8-3/4(222.2mm)	5-5/8(142.9mm)	8-3/4(222.2mm)	4-3/4(120.6mm)

**INSTALLATION INSTRUCTONS**

1. Select door opening and use dimensions shown above, mark four (4) holes on frame door and two (2) holes on door of arm shoe.
2. Drill pilot holes in door and frame for # 14 all-purpose screws or drill or tap for 1/4-20 machine screw.
3. Install forearm/arm shoe assembly to door using screws provided.
4. Mount closer on frame using screw provided. SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
5. Install main arm to top pinion shaft, perpendicular to frame when assembled to preload main arm (illustration below). Secure forearm to main arm with screw/washer assmebly provided.
6. Adjut length of forearm so that forearm is perpendicular to frame when assembled to preload main arm (illustration below). Secure forearm to main arm with screw /washer assembly provided.
7. Snap pinion cap over shaft at bottom of closer.
8. Adjust closing speed of door. following instructions as shown page 1.

**OPEN CYCLE**

NOTED:These instructions apply to closers equipped with backcheck.  
 To increase backcheck intensity, turn valve marked "BC"clockwise.  
 To decrease backcheck intensity, turn valve marked BC counter-clockwise



**INSTALLATION INSTRUCTIONS**

<p><b>Regular Arm installation</b>          Closer installs on PULL/HINGE side of door</p> <p>illustrate          Non Hold Open Arm          Left Hand Door-RH or          Right Hand Reverse -RHR          See Page 2</p>	<p><b>Top Jamb Installation</b>          Closer Installs on Frame on PUSH/STOP side of door.</p> <p>illustrate          Non Hold Open Arm          Left Hand Door-RH or          Right Hand Reverse -RHR          See Page 3</p>	<p><b>Parallel Arm Installation</b>          Closer installs on PUSH/STOP side of door.</p> <p>illustrate          Non Hold Open Arm          Left Hand Door-RH or          Right Hand Reverse -RHR          See Page 4</p>
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**CLOSER ADJUSTMENT**

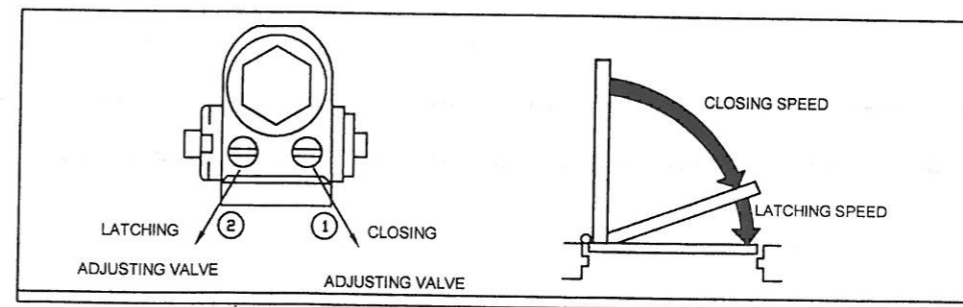
**CLOSING CYCLE**

NOTE:CLOSING arcs(CLOSE and LATCH) are controlled two (2)separate speed adjusting valves adjust the CLOSING speed first, then adjust the LATCHING speed.

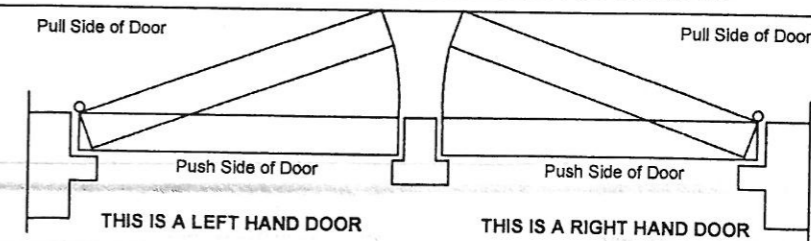
1. CLOSING speed adjustment is accomplished by full rotations of the speed adjusting valve.  
 -Turn the speed adjustment valve CLOCKWISE for a SLOWER CLOSE arc closing speed.  
 -Turn the speed adjustment valve COUNTER-CLOCKWISE for a FASTER CLOSER arc closing speed.
2. LATCH speed adjustments is accomplished by full rotations of the speed adjusting valve.  
 -Turn the speed adjustment screw CLOCKWISE for a SLOWER LATCHE arc closing speed.  
 -Turn the speed adjustment screw COUNTER-CLOCKWISE for a FASTER LATCH arc closing speed.

**CAUTIONS!**

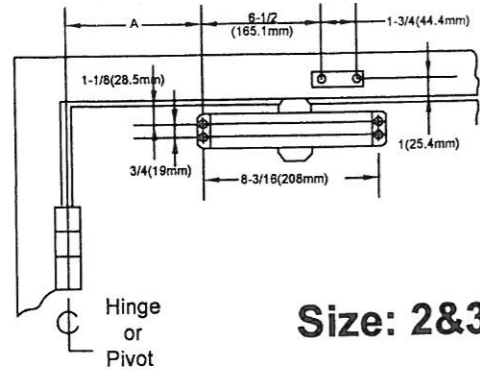
Do not turn speed adjusting valve more than two (2) full turns counter-clockwise from its factory set position,as two speed adjusting valves could become dislodged from the door closer body. resulting in the loss of internal fluid and failure of the device.



**CHART TO DETERMINE HAND OF DOOR**

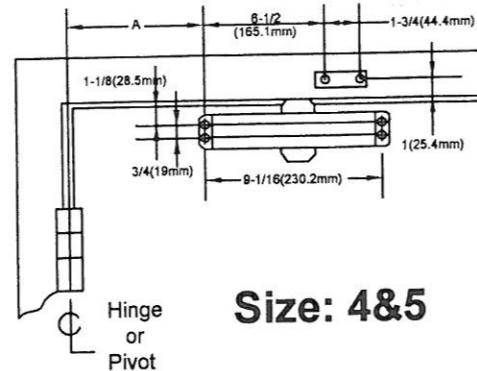


TDC 50 SERIES (With Back Check)  
 Installation Instructions for REGULAR ARM (PULL SIDE) Mounting  
 THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENING.



**Size: 2&3**

Right hand door shown  
 Left hand door shown  
 Dimensions are in inches  
 Do not scale drawing



**Size: 4&5**

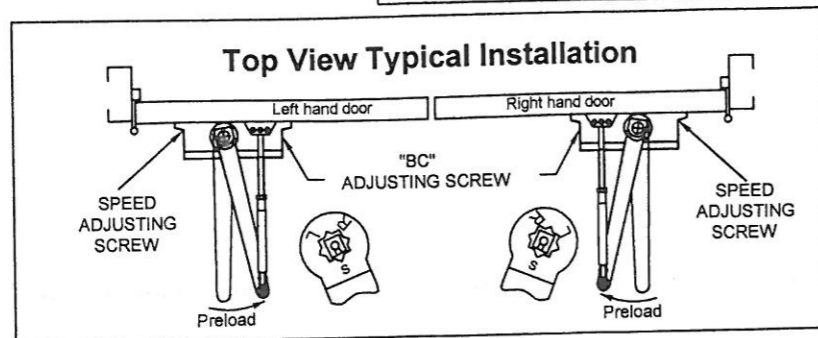
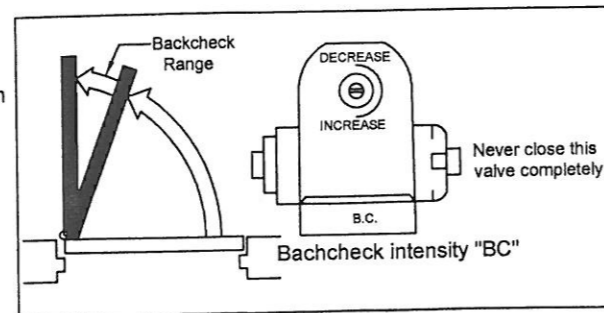
OPENING	DIM.A TDC52, 53, 53BC	DIM.A TDC54, 55, 54BC, 55BC
To 120°	6-1/2(165.1mm)	6-1/2(165.1mm)
120°-180°	4(101.6mm)	4(101.6mm)

**OPEN CYCLE**

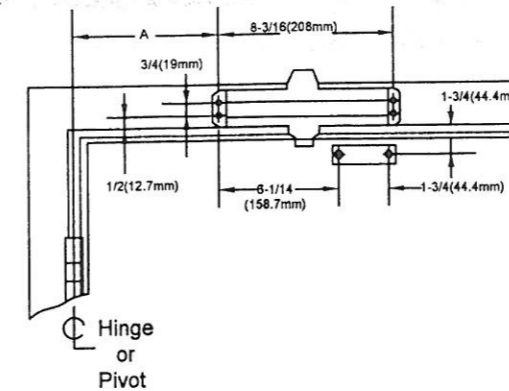
NOTED: These instructions apply to closers equipped with backcheck.  
 To increase backcheck intensity, turn valve marked "BC" clockwise.  
 To decrease backcheck intensity, turn valve marked BC counter-clockwise.

**INSTALLATION INSTRUCTONS**

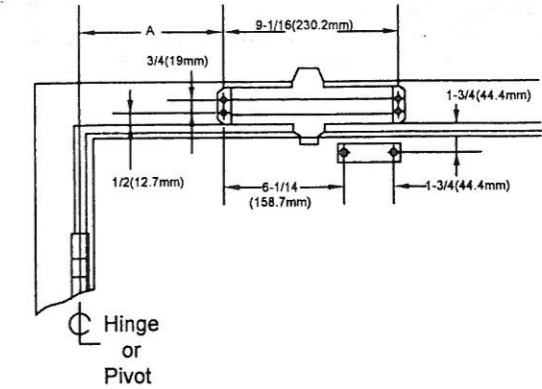
1. Select door opening and use dimensions shown above, mark four (4) holes on frame door and two (2) holes on door of arm shoe.
2. Drill pilot holes in door and frame for # 14 all-purpose screws or drill or tap for 1/4-20 machine screw.
3. Intall forearm/arm shoe assembly to door using screws provided.
4. Mount closer on frame using screw provided. SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
5. Install main arm to top pinion shaft, perpendicular to frame when assebled to preload main arm (illustration below). Secure forearm to main arm with screw/washer assmebly provided.
6. Adjut length of forearm so that forearm is perpendicular to frame when assebled to preload main arm (illustration below). Secure forearm to main arm with screw /washer assembly provided.
7. Snap pinion cap over shaft at bottom of closer.
8. Adjust closing speed of door. following instructions as shown page 1.



TDC 50 SERIES (With Back Check)  
 Installation Instructions for TOP JAMB (PUSH SIDE) Mounting  
 THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENING.



Left hand door shown  
 Right hand door shown  
 Dimensions are in inches  
 Do not scale drawing



OPENING	DIM.A TDC52, 53, 53BC	DIM.A TDC54, 55, 54BC, 55BC
To 120°	6-1/2(165.1mm)	6-1/2(165.1mm)
120°-180°	4(101.6mm)	4(101.6mm)

**OPEN CYCLE**

NOTED: These instructions apply to closers equipped with backcheck.  
 To increase backcheck intensity, turn valve marked "BC" clockwise.  
 To decrease backcheck intensity, turn valve marked BC counter-clockwise.

**INSTALLATION INSTRUCTONS**

1. Select door opening and use dimensions shown above, mark four (4) holes on frame door and two (2) holes on door of arm shoe.
2. Drill pilot holes in door and frame for # 14 all-purpose screws or drill or tap for 1/4-20 machine screw.
3. Intall forearm/arm shoe assembly to door using screws provided.
4. Mount closer on frame using screw provided. SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
5. Install main arm to top pinion shaft, perpendicular to frame when assebled to preload main arm (illustration below). Secure forearm to main arm with screw/washer assmebly provided.
6. Adjut length of forearm so that forearm is perpendicular to frame when assebled to preload main arm (illustration below). Secure forearm to main arm with screw /washer assembly provided.
7. Snap pinion cap over shaft at bottom of closer.
8. Adjust closing speed of door. following instructions as shown page 1.

