

Surface Mounted

**Adjustable Series 5000 & 5050**

Back-Check Models 5001 & 5051 . . . 8½ lb. opening thru size 5



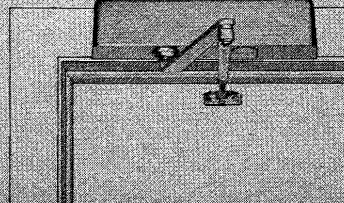
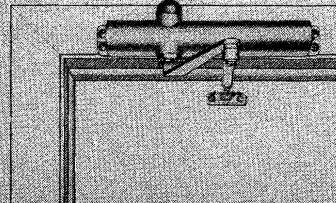
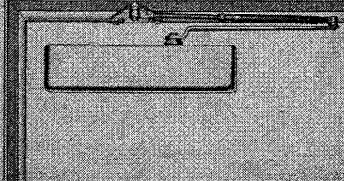
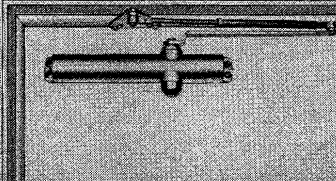
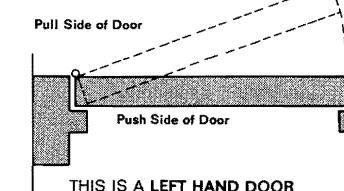
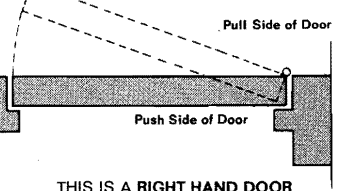
Delayed Action Models 5002 & 5052 . . . . 5 lb. opening thru size 4

Basic Models 5003 & 5053 . . . . 5 lb. opening thru size 4

**No Hold-Open**

Installation Instructions

**International®**

 <p>Series 5000 With Dress Cover</p>	<p><b>STANDARD INSTALLATION</b></p> <p>CLOSER MOUNTED ON DOOR ON PULL SIDE</p> <p>PAGE 2.</p>	 <p>Series 5050 No Dress Cover</p>
	<p><b>TOP JAMB INSTALLATION</b></p> <p>CLOSER MOUNTED ON TOP JAMB ON PUSH SIDE OF DOOR</p> <p>PAGE 3.</p>	
	<p><b>PARALLEL INSTALLATION</b></p> <p>CLOSER MOUNTED ON DOOR ON PUSH SIDE</p> <p>PAGE 4.</p>	
 <p>Pull Side of Door</p> <p>Push Side of Door</p> <p>THIS IS A LEFT HAND DOOR</p>	 <p>Pull Side of Door</p> <p>Push Side of Door</p> <p>THIS IS A RIGHT HAND DOOR</p>	<p>CHART TO DETERMINE HAND OF DOOR</p>

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**EAST:**

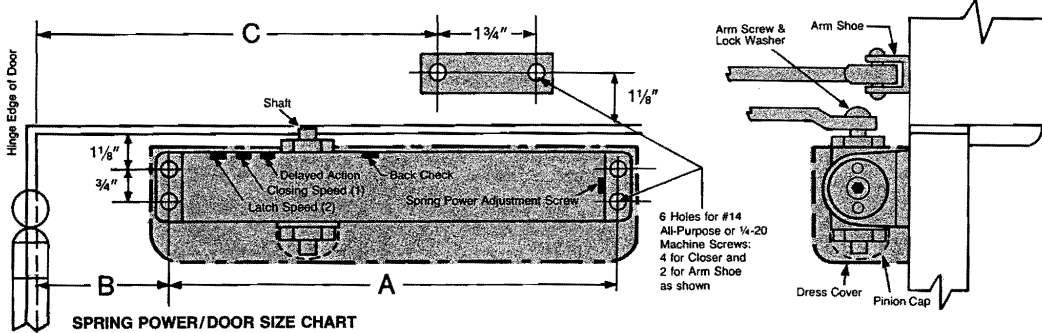
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# STANDARD INSTALLATION CLOSER MOUNTED ON DOOR ON PULL SIDE

THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENINGS.



SPRING POWER/DOOR SIZE CHART

5001 & 5051			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	8 1/2 Pound Opening Force		
2	36"	32"	28"
4	42"	36"	32"
7	48"	42"	36"
10 1/2	54"	48"	42"
5002/5052 & 5003/5053			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	5 Pound Opening Force		
3	36"	32"	28"
7	42"	36"	32"
10 1/2	48"	42"	36"

RIGHT HAND DOOR ILLUSTRATED. Same dimensions apply for Left Hand Door measured from hinge edge.

A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	6 3/16"	12 3/16"	3 3/4"	9 1/4"

### INSTALLATION INSTRUCTIONS

1. Select degree of opening and use dimensions shown in above chart to mark four holes on door for closer and two holes on frame for arm shoe.
2. Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
3. Mount closer on door with SPEED REGULATING VALVES TOWARD HINGE EDGE.
4. Place main arm on shaft on top of closer at proper index mark as illustrated. FOR RIGHT HAND DOOR No. 4 (Illustration "A"). FOR LEFT HAND DOOR No. 1 (Illustration "B"). Tighten arm screw with lockwasher securely.
5. Attach the arm shoe of the forearm to the frame.
6. Adjust length of forearm so when it is attached to main arm it will be at a right angle (90°) to door when door is closed and assemble at elbow then tighten locknut.

### ADJUSTMENT INSTRUCTIONS

**SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns. To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE "full" 360° turns as per the Spring Power/Door Size Chart above.



**SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.



**LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.



**BACK-CHECK** — (Models 5001 & 5051) are controlled by the Back-Check Adjustment Valve marked BC on the closer. Back-Check is now set for a soft action.

To INCREASE Back-Check action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.

**DELAYED CLOSING ACTION** — (Models 5002 & 5052) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer.

To INCREASE Delayed Closing Action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.

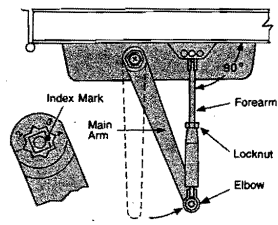


**POWER ARM SHOE** — is now set for average Power. If more Power is required, move Forearm from center hole in Arm Shoe to hole closest Main Arm. If less Power is required, move Forearm to hole farthest from Main Arm.

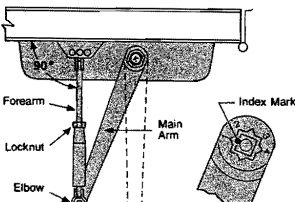
**DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with truss head machine screw provided.

**PINION CAP** — (If no Dress Cover) — Snap over shaft at bottom of closer.

### POSITION OF ARMS & INDEX SETTINGS



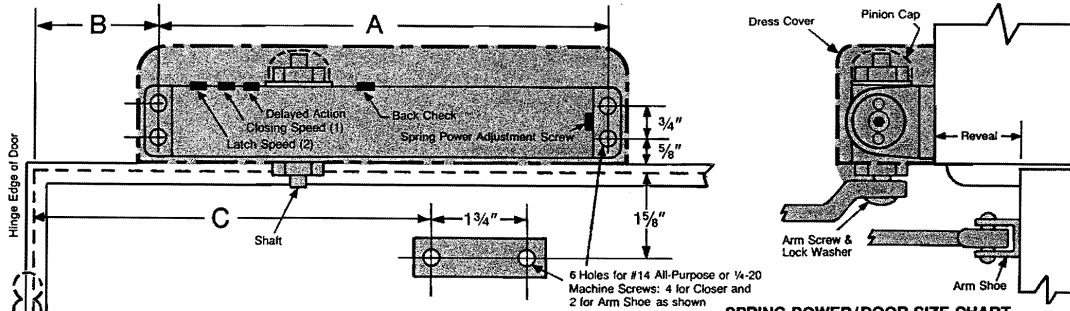
Right hand door, use index mark 4 ILLUSTRATION "A"



Left hand door, use index mark 1 ILLUSTRATION "B"

# TOP JAMB INSTALLATION CLOSER MOUNTED ON TOP JAMB ON PUSH SIDE OF DOOR

**THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENINGS.**  
Reveals of 2¾" to 5½" require "Top Jamb" Forearm Extender Accessory and must be ordered extra.



LEFT HAND DOOR ILLUSTRATED. Same dimensions apply for Right Hand Door measured from hinge edge.

A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	6 <sup>7</sup> / <sub>16</sub> "	12 <sup>3</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "	10 <sup>1</sup> / <sub>16</sub> "

### INSTALLATION INSTRUCTIONS

- Select degree of opening and use dimensions shown in above chart to mark four holes on frame for closer and two holes on door for arm shoe.
- Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for ¼-20 machine screws.
- Mount closer on frame with SPEED REGULATING VALVES TOWARD HINGE EDGE.
- Place main arm on shaft on bottom of closer at proper index mark as illustrated. FOR RIGHT HAND DOOR No. 4 (Illustration "B"). FOR LEFT HAND DOOR No. 1 (Illustration "A"). Tighten arm screw with lockwasher securely.
- Attach the arm shoe of the forearm to the door.
- Adjust length of forearm so when it is attached to main arm it will be at a right angle (90°) to door when door is closed and assemble at elbow then tighten locknut.

### ADJUSTMENT INSTRUCTIONS

**SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns.  
To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE "full" 360° turns as per the Spring Power/Door Size Chart above.



**SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.



**LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.

**BACK-CHECK** — (Models 5001 & 5051) are controlled by the Back-Check Adjustment Valve marked BC on the closer. Back-Check is now set for a soft action. To INCREASE Back-Check action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.



**DELAYED CLOSING ACTION** — (Models 5002 & 5052) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer. To INCREASE Delayed Closing Action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.



**POWER ARM SHOE** — is now set for average Power. If more Power is required, move Forearm from center hole in Arm Shoe to hole closest Main Arm. If less Power is required, move Forearm to hole farthest from Main Arm.

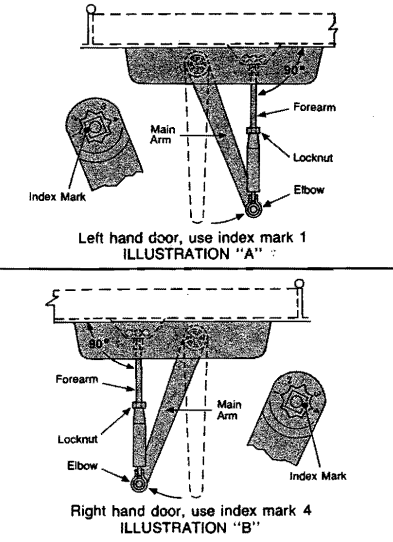
**DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with truss head machine screw provided.

**PINION CAP** — (If no Dress Cover) — Snap over shaft at top of closer.

### SPRING POWER/DOOR SIZE CHART

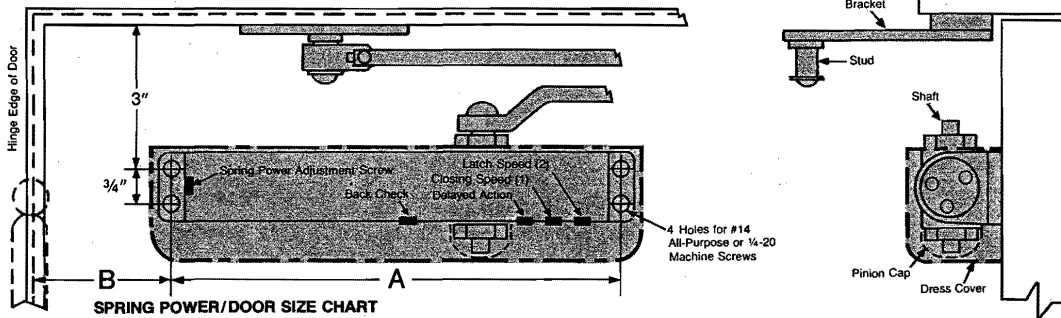
5001 & 5051			
FULL-TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	8½ Pound Opening Force		
2	36"	32"	28"
4	42"	36"	32"
7	48"	42"	36"
10 ½	54"	48"	42"
5002/5052 & 5003/5053			
FULL-TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	5 Pound Opening Force		
3	36"	32"	28"
7	42"	36"	32"
10 ½	48"	42"	36"

### POSITION OF ARMS & INDEX SETTINGS



# PARALLEL ARM INSTALLATION CLOSER MOUNTED ON DOOR ON PUSH SIDE

**THIS TEMPLATE COVERS REGULAR PARALLEL ARM INSTALLATIONS TO 180° OPENINGS.**  
Parallel bracket accessory required and must be ordered extra.



**SPRING POWER/DOOR SIZE CHART**

5001-P & 5051-P			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT	EXTERIOR DOOR SIZE SWING IN
1	8½ Pound Opening Force		
3	32"	28"	24"
5	36"	32"	28"
8	42"	36"	32"
10 ½	48"	42"	36"
5002-P/5052-P & 5003-P/5053-P			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT	EXTERIOR DOOR SIZE SWING IN
2	5 Pound Opening Force		
4	32"	28"	24"
6	36"	32"	28"
9	42"	36"	32"
10	MAXIMUM TURNS		

LEFT HAND DOOR ILLUSTRATED. Same dimensions apply for Right Hand Door measured from hinge edge.

A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	4 3/16"	9"	2 13/16"	7 3/8"

### INSTALLATION INSTRUCTIONS

- Select degree of opening and use dimensions shown in above chart to mark four holes on door for closer and four holes on frame for parallel bracket.
- Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for ¼-20 machine screws.
- Mount closer on door with SPEED REGULATING VALVES AWAY FROM HINGE EDGE.
- Attach parallel bracket to door stop as illustrated.
- Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door. Hold and place main arm on shaft on top of closer at proper index mark as illustrated. FOR LEFT HAND DOOR No. 3 (Illustration "A"). FOR RIGHT HAND DOOR No. 2 (Illustration "B"). Tighten arm screw with lockwasher securely.
- Remove the arm shoe from the forearm (arm shoe is not used in this application) and place forearm on parallel bracket stud and tighten screw with lockwasher securely.
- Adjust length of forearm so when it is attached to main arm, the main arm will be slightly away from parallel with closed door, and assemble at elbow then tighten locknut.

### ADJUSTMENT INSTRUCTIONS

**SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns. To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE "full" 360° turns as per the Spring Power/Door Size Chart above.



**SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.



**LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.



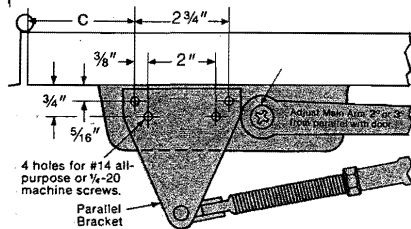
**BACK-CHECK** — (Models 5001 & 5051) are controlled by the Back-Check Adjustment Valve marked BC on the closer. Back-Check is now set for a soft action. To INCREASE Back-Check action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.



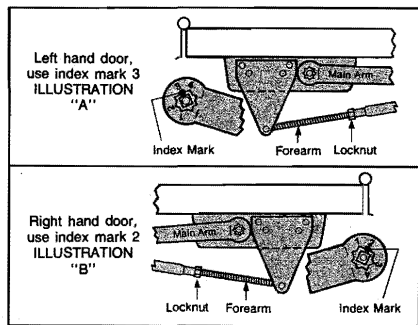
**DELAYED CLOSING ACTION** — (Models 5002 & 5052) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer. To INCREASE Delayed Closing Action turn valve CLOCKWISE. **NOTE: Never close valve completely.** To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.

**DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with truss head machine screw provided.

**PINION CAP** — (If no Dress Cover) — Snap over shaft at bottom of closer.



### POSITION OF ARMS & INDEX SETTINGS



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T-1290

Surface Mounted  
Adjustable **Series 5101 & 5151**

Back-Check Models 5101 & 5151 . . . 8½ lb. opening thru size 5

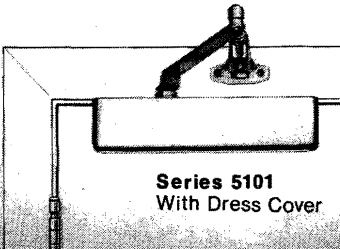

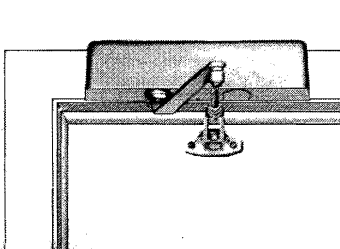
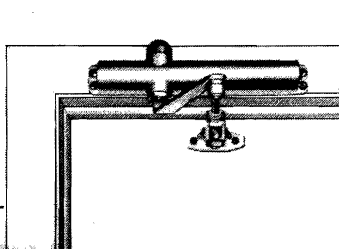
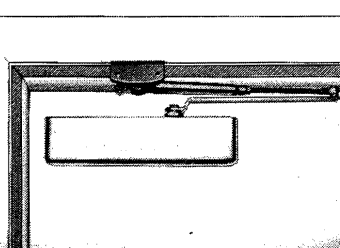
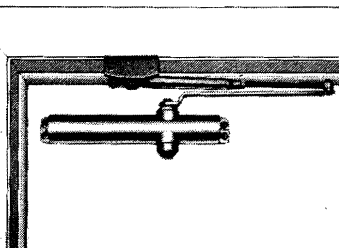
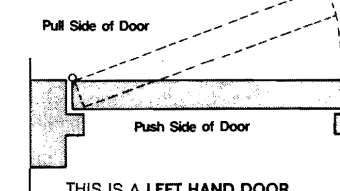
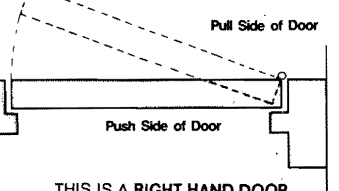
Delayed Action Models 5102 & 5152 . . . . 5 lb. opening thru size 4

Basic Models 5103 & 5153 . . . . 5 lb. opening thru size 4

**International®**

**Hold-Open & Fusible Link**

Installation Instructions

 <p><b>Series 5101</b> With Dress Cover</p>	<p><b>STANDARD INSTALLATION</b></p> <p>CLOSER MOUNTED ON DOOR ON PULL SIDE</p> <p>PAGE 2.</p>	 <p><b>Series 5151</b> No Dress Cover</p>
	<p><b>TOP JAMB INSTALLATION</b></p> <p>CLOSER MOUNTED ON TOP JAMB ON PUSH SIDE OF DOOR</p> <p>PAGE 3.</p>	
	<p><b>PARALLEL INSTALLATION</b></p> <p>CLOSER MOUNTED ON DOOR ON PUSH SIDE</p> <p>PAGE 4.</p>	
 <p>Pull Side of Door</p> <p>Push Side of Door</p> <p>THIS IS A LEFT HAND DOOR</p>	 <p>Pull Side of Door</p> <p>Push Side of Door</p> <p>THIS IS A RIGHT HAND DOOR</p>	<p>CHART TO DETERMINE HAND OF DOOR</p>

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**EAST:**

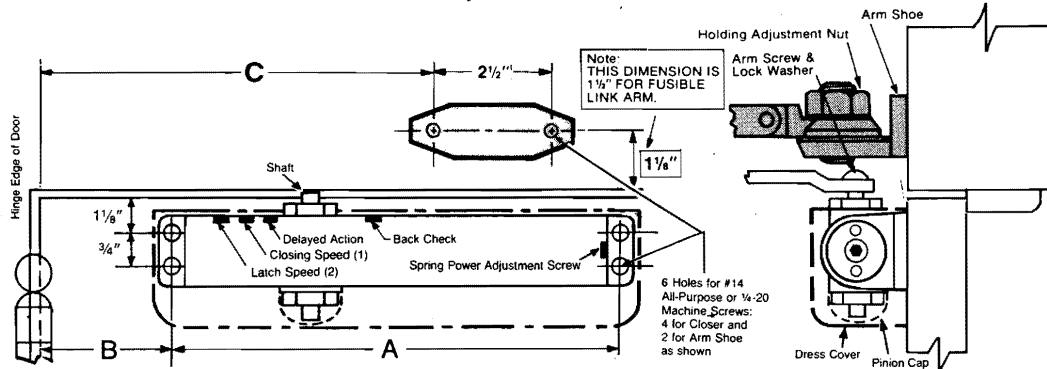
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**STANDARD INSTALLATION  
CLOSER MOUNTED ON DOOR ON PULL SIDE**

**THIS TEMPLATE COVERS HOLD-OPEN ARM INSTALLATIONS FROM 90° TO 180° OPENINGS.**



**SPRING POWER/DOOR SIZE CHART**

5101 & 5151			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	8-1/2 Pound Opening Force		
2	36"	32"	28"
4	42"	36"	32"
7	48"	42"	36"
10 1/2	54"	48"	42"
5102 / 5152 & 5103 / 5153			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
0	5 Pound Opening Force		
3	36"	32"	28"
6	42"	36"	32"
10	48"	42"	36"
11	MAXIMUM TURNS		

**RIGHT HAND DOOR ILLUSTRATED.** Same dimensions apply for Left Hand Door measured from hinge edge.

A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	6"	11 3/16"	3 3/16"	8 3/4"

**INSTALLATION INSTRUCTIONS**

- Select degree of opening and use dimensions shown in above chart to mark four holes on door for closer and two holes on frame for hold-open arm shoe.
  - Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
  - Mount closer on door WITH SPEED REGULATING VALVE TOWARD HINGE EDGE.
  - Place main arm on shaft on top of closer at proper index mark as illustrated. FOR RIGHT HAND DOOR No. 4 (Illustration "A"). FOR LEFT HAND DOOR No. 1 (Illustration "B"). Tighten arm screw with lockwasher securely.
  - Attach hold-open arm shoe of the forearm to the frame. RIGHT HAND DOOR, HOLDING ADJUSTMENT NUT MUST BE UP (Illustration "A"). LEFT HAND DOOR, HOLDING ADJUSTMENT NUT MUST BE DOWN (Illustration "B").
- NOTE: — FUSIBLE LINK ARMS ARE HANDED AND MUST ALWAYS BE INSTALLED WITH HOLDING ADJUSTMENT NUT DOWN.**
- Loosen holding adjustment nut then adjust length of forearm so when it is attached to main arm it will be at a right angle (90°) to door when door is closed and assemble at elbow then tighten locknut.

**ADJUSTMENT INSTRUCTIONS**

**SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns.  
To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE "full" 360° turns as per the Spring Power/Door Size Chart above.



**SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.



**LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.



**BACK-CHECK** — (Models 5101 & 5151) are controlled by the Back-Check Adjustment Valve marked BC on the closer. Back-Check is now set for a soft action.  
To INCREASE Back-Check action turn valve CLOCKWISE. **BC**  
**NOTE: Never close valve completely.**  
To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.



**DELAYED CLOSING ACTION** — (Models 5102 & 5152) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer.  
To INCREASE Delayed Closing Action turn valve CLOCKWISE. **DA**  
**NOTE: Never close valve completely.**  
To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.

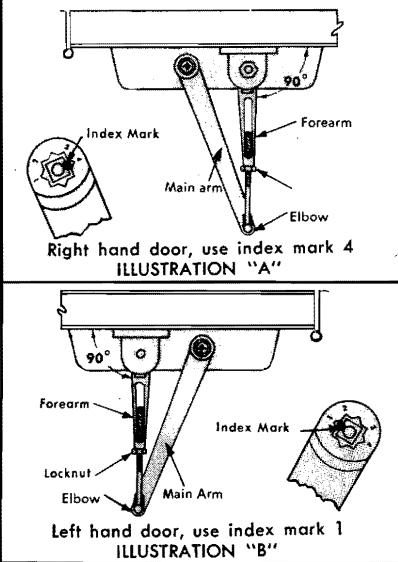


**HOLD OPEN ARM** — Open door to desired degree and tighten Holding Adjustment Nut until door holds open.

**DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with truss head machine screw provided.

**PINION CAP** — (If no Dress Cover) — Snap over shaft at bottom of closer.

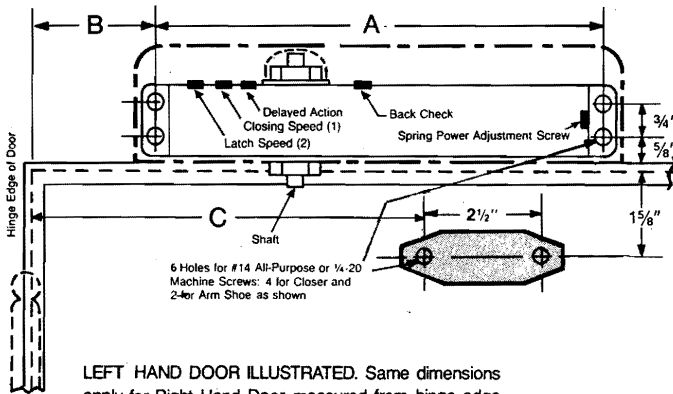
**POSITION OF ARMS AND INDEX SETTINGS**



## TOP JAMB INSTALLATION CLOSER MOUNTED ON TOP JAMB ON PUSH SIDE OF DOOR

**THIS TEMPLATE COVERS HOLD-OPEN ARM INSTALLATIONS TO 180° OPENINGS.**

Reveals of 2 3/4" to 6" require "Top Jamb" Forearm Extender Accessory and must be ordered extra.



LEFT HAND DOOR ILLUSTRATED. Same dimensions apply for Right Hand Door measured from hinge edge.

A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	5 13/16"	11 1/2"	4 1/8"	9 13/16"

### INSTALLATION INSTRUCTIONS

- Select degree of opening and use dimensions shown in above chart to mark four holes on frame for closer and two holes on door for hold-open arm shoe.
  - Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
  - Mount closer on frame WITH SPEED REGULATING VALVE TOWARD HINGE EDGE.
  - Place main arm on shaft at bottom of closer at proper index mark as illustrated. FOR LEFT HAND DOOR No. 1 (Illustration "A") FOR RIGHT HAND DOOR No. 4 (Illustration "B"). Tighten arm screw with lockwasher securely.
  - Attach hold-open arm shoe of the forearm to the door. LEFT HAND DOOR, HOLDING ADJUSTMENT NUT MUST BE UP (Illustration "A"). RIGHT HAND DOOR, HOLDING ADJUSTMENT NUT MUST BE DOWN (Illustration "B").
- NOTE: — FUSIBLE LINK ARMS ARE \*HANDED AND MUST ALWAYS BE INSTALLED WITH HOLDING ADJUSTMENT NUT DOWN.
- \*For Top Jamb Installations. Left hand doors require Right hand arms and Right hand doors require Left hand arms.
- Loosen holding adjustment nut then adjust length of forearm so when it is attached to main arm it will be at a right angle (90°) to door when door is closed and assemble at elbow then tighten locknut.

### ADJUSTMENT INSTRUCTIONS

**SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns.  
To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE  
"full" 360° turns as per the Spring Power/Door Size Chart above.



**SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.



**LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.

**BACK-CHECK** — (Models 5101 & 5151) are controlled by the Back-Check Adjustment Valve marked BC on the closer.

Back-Check is now set for a soft action.  
To INCREASE Back-Check action turn valve CLOCKWISE.

**BC**



NOTE: Never close valve completely.  
To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.

**DELAYED CLOSING ACTION** — (Models 5102 & 5152) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer.

To INCREASE Delayed Closing Action turn valve CLOCKWISE.

**DA**

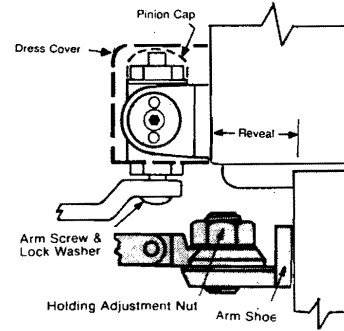


NOTE: Never close valve completely.  
To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.

**HOLD OPEN ARM** — Open door to desired degree and tighten Holding Adjustment Nut until door holds open.

**DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with truss head machine screw provided.

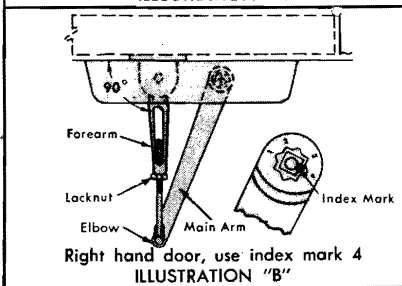
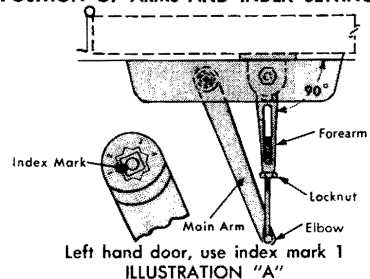
**PINION CAP** — (If no Dress Cover) — Snap over shaft at top of closer.



### SPRING POWER/DOOR SIZE CHART

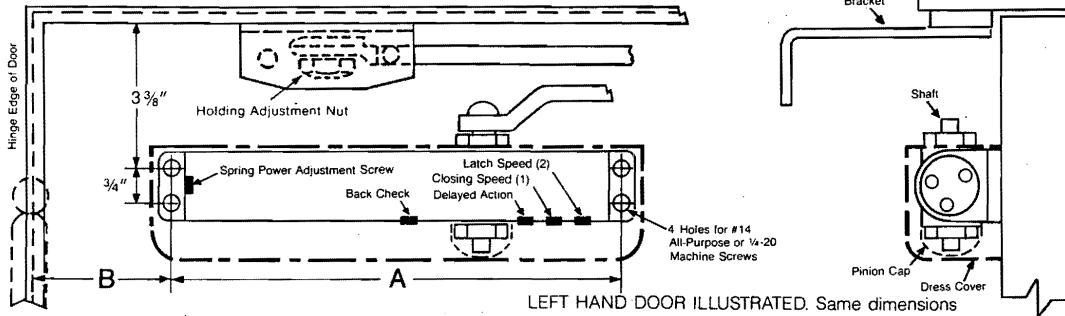
5101 & 5151			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE	
0	8-1/2 Pound Opening Force		
2	36"	32"	28"
4	42"	36"	32"
7	48"	42"	36"
10 1/2	54"	48"	42"
5102/5152 & 5103/5153			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE	
0	5 Pound Opening Force		
3	36"	32"	28"
6	42"	36"	32"
10	48"	42"	36"
11	MAXIMUM TURNS		

### POSITION OF ARMS AND INDEX SETTINGS



# PARALLEL ARM INSTALLATION CLOSER MOUNTED ON DOOR ON PUSH SIDE

**THIS TEMPLATE COVERS HOLD-OPEN, PARALLEL ARM INSTALLATIONS TO 180° OPENINGS.**  
Parallel bracket accessory required and must be ordered extra.



**SPRING POWER/DOOR SIZE CHART**

5101-P & 5151-P			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
1	8 1/2 Pound Opening Force		
3	32"	28"	24"
5	36"	32"	28"
8	42"	36"	32"
10 1/2	48"	42"	36"
5102-P/5152-P & 5103-P/5153-P			
FULL TURNS OF SPRING ADJUSTMENT SCREW	MAXIMUM DOOR WIDTH		
	INTERIOR DOOR SIZE	EXTERIOR DOOR SIZE SWING OUT SWING IN	
2	5 Pound Opening Force		
4	32"	28"	24"
6	36"	32"	28"
9	42"	36"	32"
10	MAXIMUM TURNS		

LEFT HAND DOOR ILLUSTRATED. Same dimensions apply for Right Hand Door measured from hinge edge.

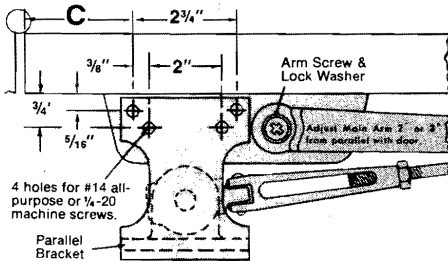
A	FOR OPENING TO 120°		FOR OPENING 120°-180°	
	B	C	B	C
12"	4 1/2"	9 1/2"	3"	8"

**INSTALLATION INSTRUCTIONS**

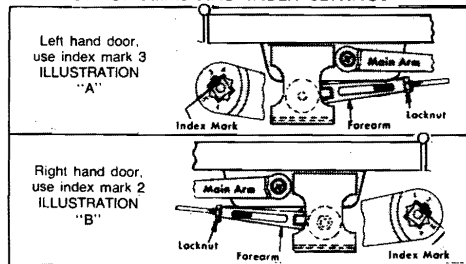
- Select degree of opening and use dimensions shown in above chart to mark four holes on door for closer and four holes on frame for hold-open parallel bracket.
  - Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
  - Mount closer on door WITH SPEED REGULATING VALVE AWAY FROM HINGE EDGE.
  - Attach parallel bracket to door stop as illustrated.
  - Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door. Hold and place main arm on shaft on top of closer at proper index mark as illustrated. FOR LEFT HAND DOOR No. 3 (Illustration "A"). FOR RIGHT HAND DOOR No. 2 (Illustration "B"). Tighten arm screw with lockwasher securely.
  - Attach hold-open arm shoe of the forearm to parallel bracket. LEFT HAND DOOR, HOLDING ADJUSTMENT NUT MUST BE DOWN (Illustration "A"). RIGHT HAND DOOR HOLDING ADJUSTMENT NUT MUST BE UP (Illustration "B").
- NOTE: — FUSIBLE LINK ARMS ARE HANDED AND MUST ALWAYS BE INSTALLED WITH HOLDING ADJUSTMENT NUT DOWN.**
- Loosen holding adjustment nut and adjust length of forearm so that when it is attached to main arm, the main arm will be slightly away from parallel with the closed door, and assemble at elbow then tighten locknut.

**ADJUSTMENT INSTRUCTIONS**

- SPRING POWER** — is controlled by the Hex Socket Spring Adjustment Screw. Power is now set at "0" turns.  
To INCREASE, use a 3/16" Allen Key and turn CLOCKWISE "full" 360° turns as per the Spring Power/Door Size Chart above.
- SPEED** — Door closing speed is controlled by Regulating Valve No. 1. CLOCKWISE turns slow closing speed. COUNTERCLOCKWISE turns increase closing speed.
- LATCHING** — Latching action is controlled by Regulating Valve No. 2. CLOCKWISE turns slow latch speed. COUNTERCLOCKWISE turns increase latch speed.
- BACK-CHECK** — (Models 5101 & 5151) are controlled by the Back-Check Adjustment Valve marked BC on the closer. Back-Check is now set for a soft action.  
To INCREASE Back-Check action turn valve CLOCKWISE. **BC**  
**NOTE: Never close valve completely.**  
To DECREASE, or to TURN OFF Back-Check action turn valve COUNTERCLOCKWISE.
- DELAYED CLOSING ACTION** — (Models 5102 & 5152) are controlled by the Delayed Closing Action Adjustment Valve marked DA on the closer. To INCREASE Delayed Closing Action turn valve CLOCKWISE. **DA**  
**NOTE: Never close valve completely.**  
To DECREASE Delayed Closing Action turn valve COUNTERCLOCKWISE.
- HOLD OPEN ARM** — Open door to desired degree and tighten Holding Adjustment Nut until door holds open.
- DRESS COVER** — (If required, Pinion Cap is not used) — Cut out correct Notch (Marked L or R) for shaft and place over closer. Attach with 2 truss head machine screws provided.
- PINION CAP** — (If no Dress Cover) — Snap over shaft at bottom of closer.



**POSITION OF ARMS AND INDEX SETTINGS**



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