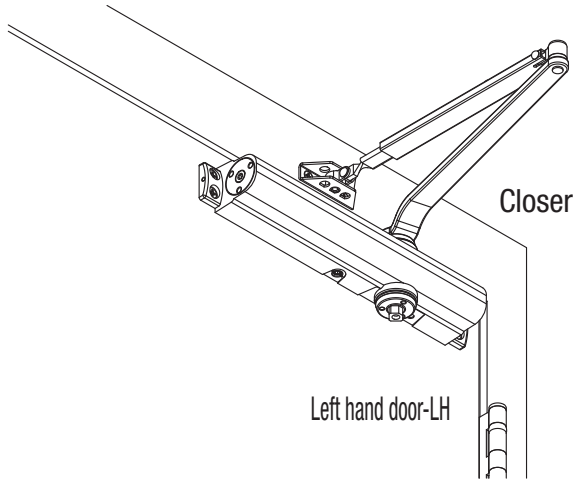


## MULTI SIZE 1 THRU 6 — NON HOLD OPEN DOOR CLOSER

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

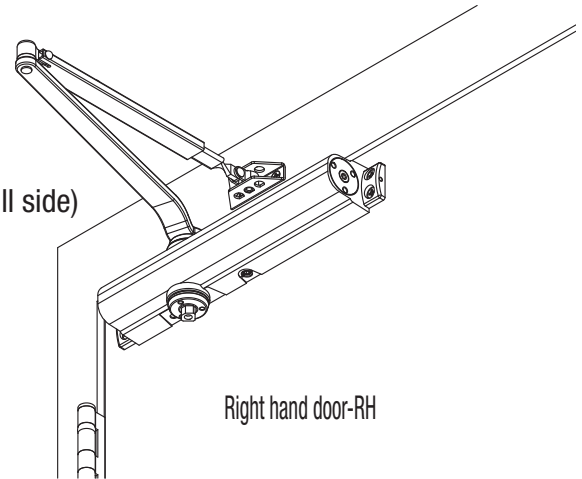
### Regular Arm Installation



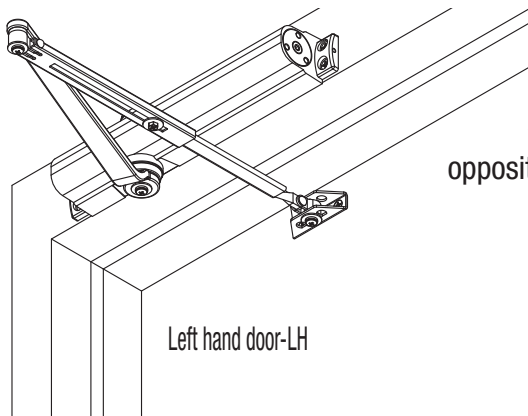
Closer mounts on hinge side of door (pull side)

See Page 3.

Closer cover not shown.



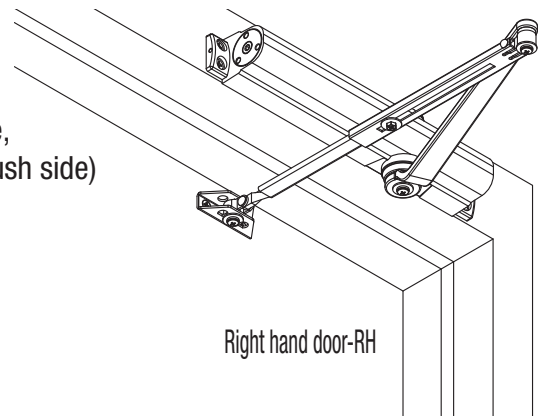
### Top Jamb Installation



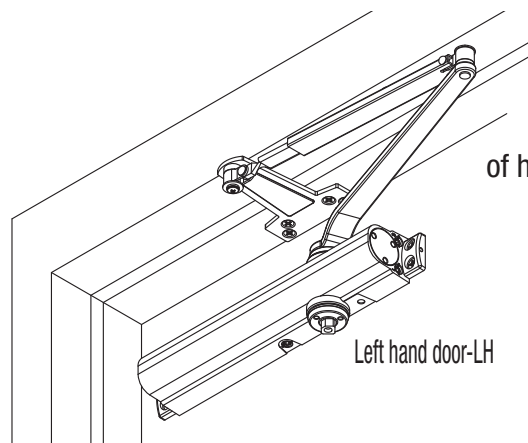
Closer mounts on frame,  
opposite hinge side of door (push side)

See Page 4.

Closer cover not shown.



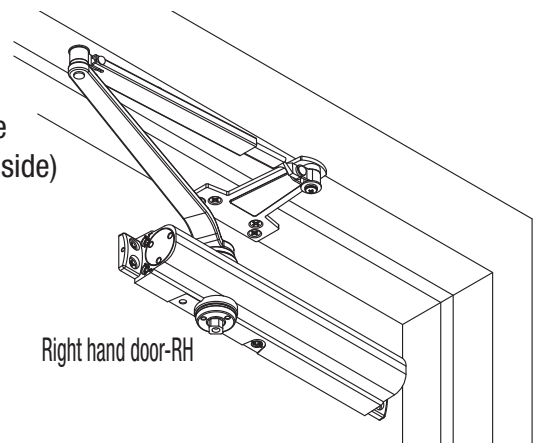
### Parallel Arm Installation



Closer mounts opposite  
of hinge side of door (push side)

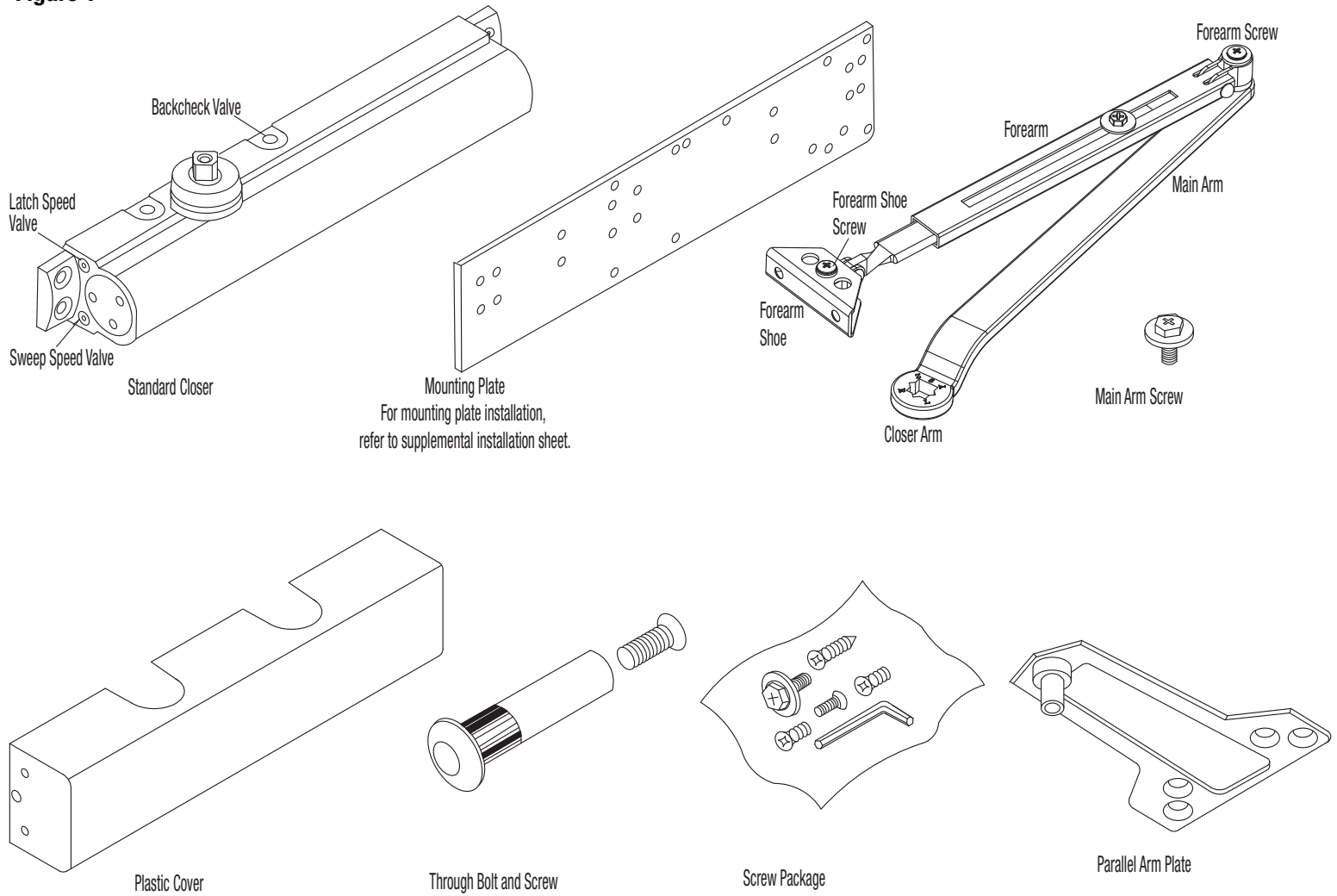
See Page 5.

Closer cover not shown.



## Components:

**Figure 1**



- It is recommended that the door be hung on ball bearing type hinges so door swings freely.
- A separate door stop (supplied by others) is recommended to prevent damage to the door closer, closer arm, the door, frame or adjacent walls.
- Door and frame must be properly reinforced or through bolts used to prevent the mounting screws from pulling out.

**Figure 2**

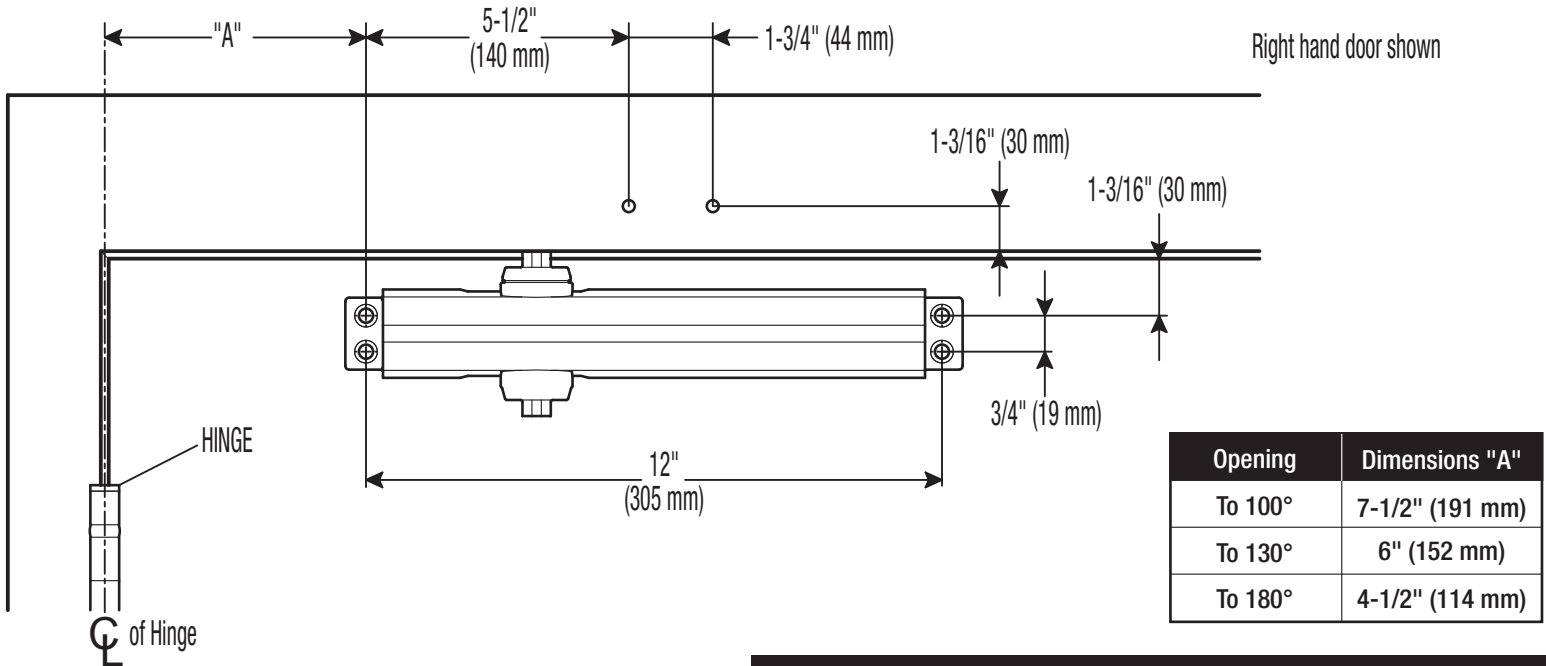
## Preparation for Fasteners

Fasteners	Door or Frame	Drill Sizes	Where Used	*Drill Depth
Self Drilling/Tapping Machine Screw	Hollow Metal or Aluminum	3/16"	Closer	Through one side
1/4"-20 Machine Screw	Hollow Metal or Aluminum	#7 (.201") Drill bit & 1/4"-20 Tap	Closer & Parallel Arm (PA) Plate / Foot	5/8" – Closer 1/2" – PA Plate/Foot
1/4"-20 Machine Screw used with Through Bolt	Hollow Metal or Aluminum	9/32" Drill Bit Closer Side & 3/8" Drill Bit Opposite Side	Closer	9/32" – Through Door 3/8" – 1/2"
	Wood			
Wood Screw	Wood	5/32" Drill Bit – Softwood 3/16" Drill Bit – Hardwood	Closer & PA Plate / Foot	1-1/4"

\* Measure door thickness before drilling pilot holes to prevent drilling through opposite side

# REGULAR ARM INSTALLATION

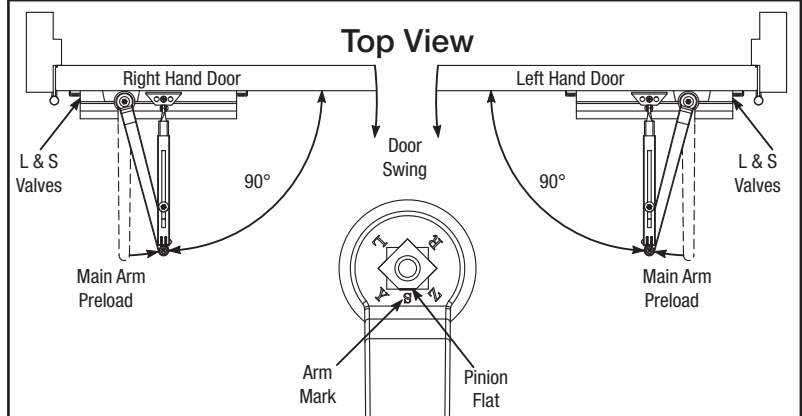
## WC61 INSTALLATION INSTRUCTIONS



### INSTALLATION SEQUENCE

1. Select degree of opening and use dimensions shown to locate 4 holes on door for closer body and 2 holes on frame face for forearm shoe.
2. Prepare door and frame for fasteners (See Preparation for Fasteners, Page 2, Figure 2).
3. Before installing closer body, set spring power for closer using Power Adjustment Chart below.
4. Install closer on door with speed regulating valves towards the hinge.
5. Disassemble forearm from main arm by removing forearm screw (See Figure 1). Fasten forearm shoe and forearm to frame face.
6. Mount main arm onto closer pinion shaft, aligning arm mark "S" with pinion flat. Secure with main arm screw.
7. Reassemble arm. Adjust forearm length so that it will be perpendicular (at a 90° angle) to the door face. Secure with forearm screw.
8. Adjust closer (See page 6) and install cover.

### Main Arm Installation Instructions



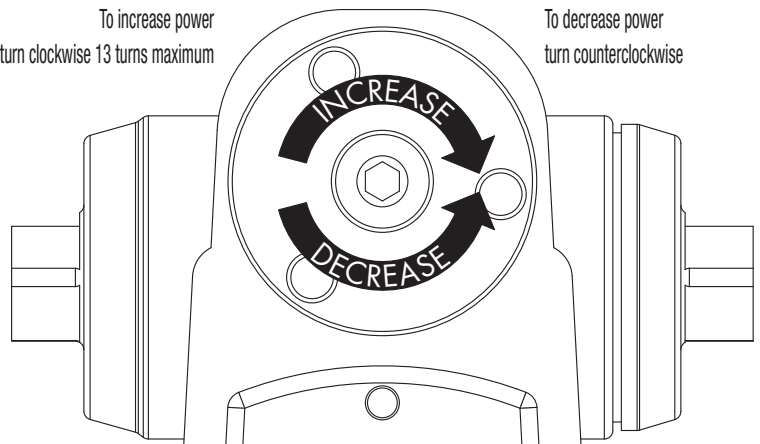
### Power Adjustment Chart

DOOR SIZE (INCHES)	Full clockwise turns of closer power adjustment nut (from "0" turns)	
	INTERIOR DOOR	EXTERIOR DOOR
24" - 30" (61 cm - 76 cm)	-7	-5
30" - 34" (76 cm - 86 cm)	-3	0
34" - 38" (86 cm - 97 cm)	0	4
38" - 48" (97 cm - 122 cm)	4	8
48" - 54" (122 cm - 137 cm)	8	13
54" - 60" (137 cm - 152 cm)	13	

NOTE: Maximum of 20 turns (360°) of power adjustment nut.  
Closer is shipped at 7 turns from the factory.

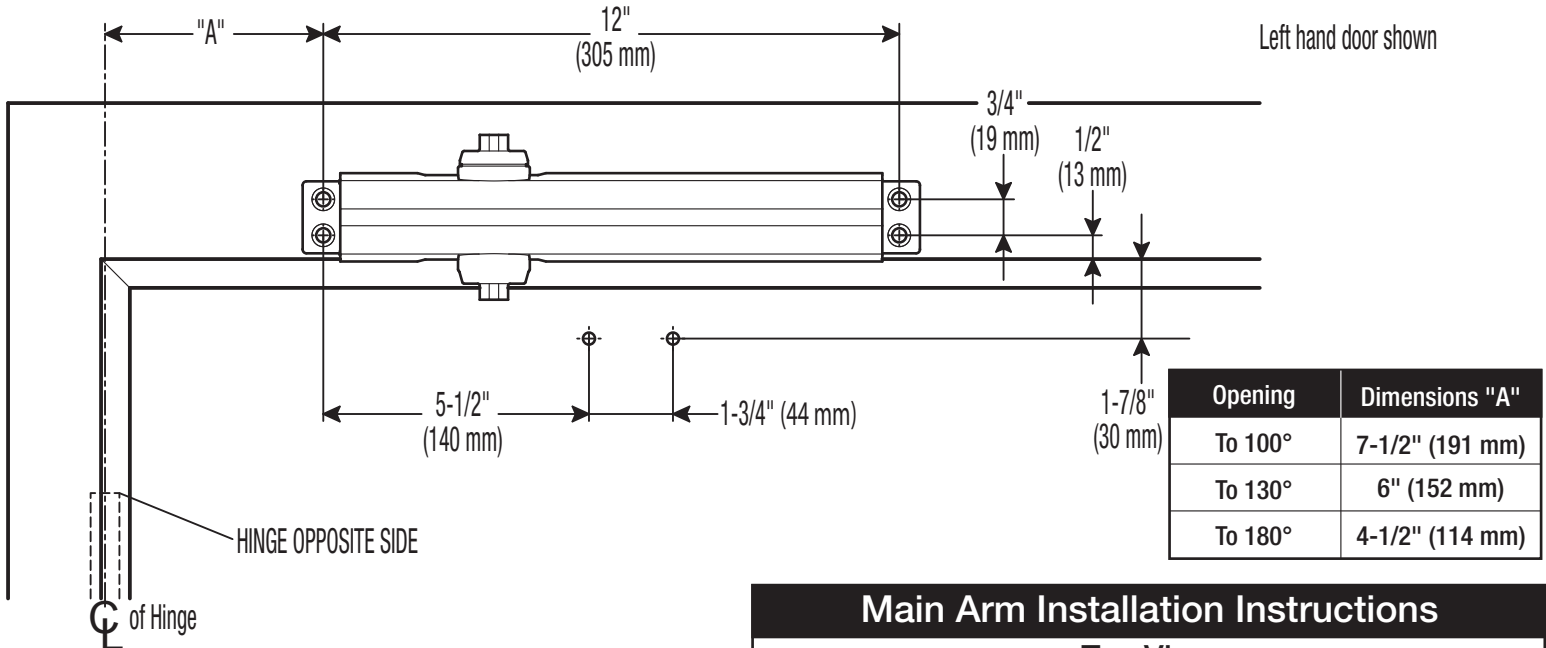
To increase power  
turn clockwise 13 turns maximum

To decrease power  
turn counterclockwise



# TOP JAMB INSTALLATION

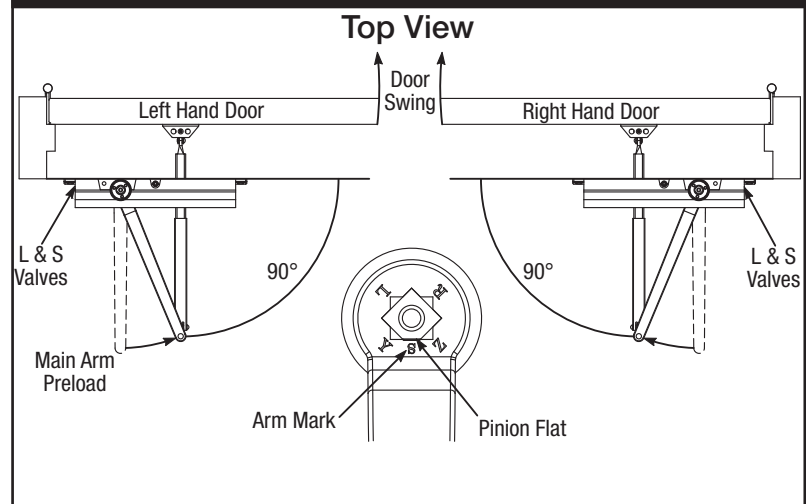
## WC61 INSTALLATION INSTRUCTIONS



### INSTALLATION SEQUENCE

1. Select degree of opening and use dimensions shown to locate 4 holes on frame face for closer body and 2 holes on door for forearm shoe.
2. Prepare door and frame for fasteners (See Preparation for Fasteners, Page 2, Figure 2).
3. Before installing closer body, set spring power for closer using Power Adjustment Chart below.
4. Install closer on door with speed regulating valves towards the hinge.
5. Disassemble forearm from main arm by removing forearm screw (See Figure 1). Fasten forearm shoe and forearm to door face.
6. Mount main arm onto closer pinion shaft, aligning arm mark "S" with pinion flat. Secure with main arm screw.
7. Reassemble arm. Adjust forearm length so that it will be perpendicular (at a 90° angle) to the door face. Secure with forearm screw.
8. Adjust closer (See page 6) and install cover.

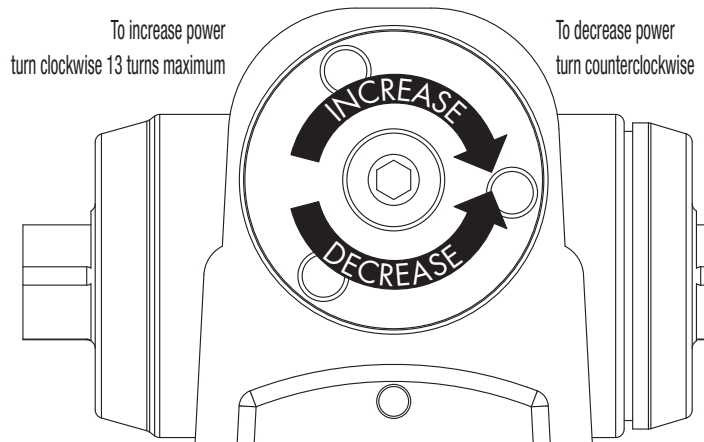
### Main Arm Installation Instructions



### Power Adjustment Chart

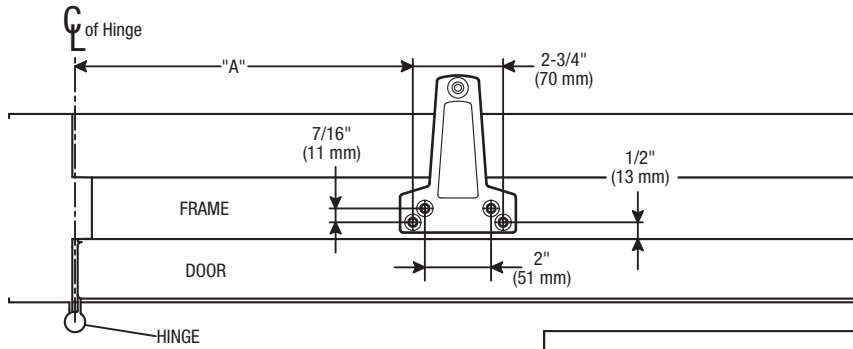
DOOR SIZE (INCHES)	Full clockwise turns of closer power adjustment nut (from "0" turns)	
	INTERIOR DOOR	EXTERIOR DOOR
24" - 30" (61 cm - 76 cm)	-7	-5
30" - 34" (76 cm - 86 cm)	-3	0
34" - 38" (86 cm - 97 cm)	0	4
38" - 48" (97 cm - 122 cm)	4	8
48" - 54" (122 cm - 137 cm)	8	13
54" - 60" (137 cm - 152 cm)	13	

NOTE: Maximum of 20 turns (360°) of power adjustment nut.  
Closer is shipped at 7 turns from the factory.



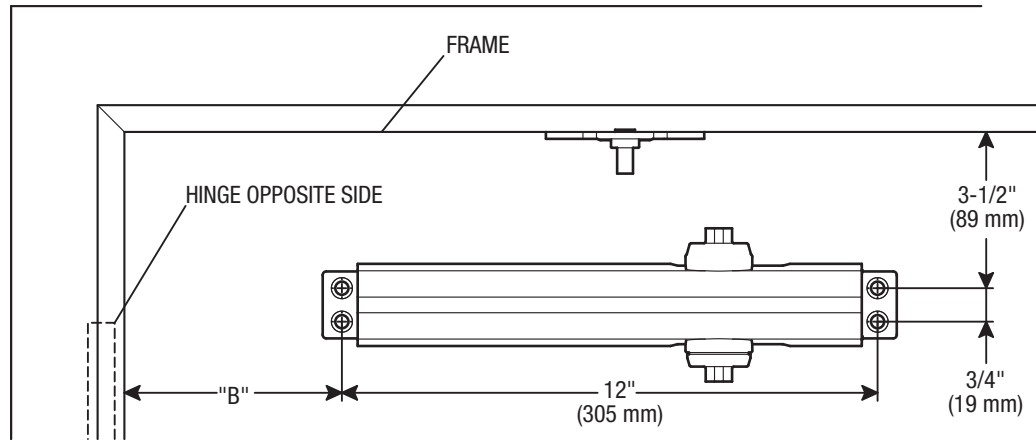
# PARALLEL ARM INSTALLATION

## WC61 INSTALLATION INSTRUCTIONS



Left hand door shown

Opening	Dimensions "A"	Dimensions "B"
To 120°	9-1/2"	3-3/4" (95 mm)
To 180°	7"	1-1/4" (32 mm)



### INSTALLATION SEQUENCE

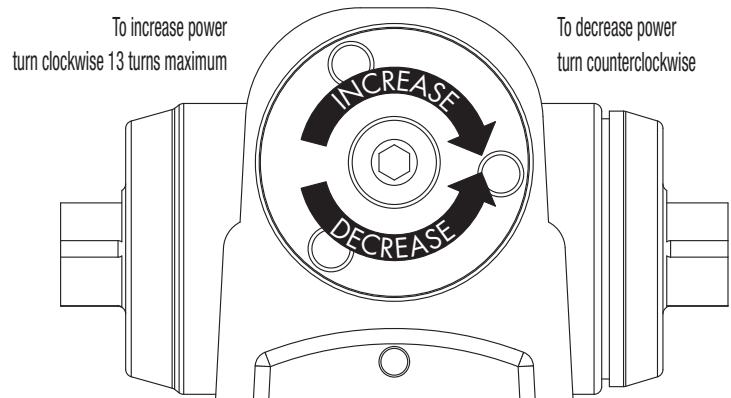
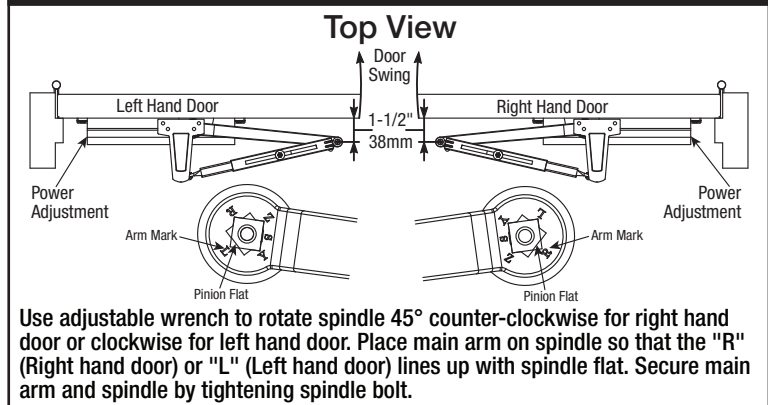
1. Select degree of opening and use dimensions shown to locate 4 holes on door for closer body and 4 holes underside of frame for PA plate.
2. Prepare door and frame for fasteners (See Preparation for Fasteners, Page 2, Figure 2).
3. Before installing closer body, set spring power for closer using Power Adjustment Chart below.
4. Install closer on door with power adjustment value towards the hinge.
5. Mount parallel arm plate to frame. Disassemble forearm from main arm by removing forearm screw. Remove forearm shoe from forearm and attach forearm to parallel plate with forearm shoe screw (See Figure 1).
6. Install main arm on pinion shaft (See Main Arm Installation Instructions, to right.).

7. Reassemble main arm to forearm. Preload is accomplished by adjusting forearm length so that it will set arm elbow about 1-1/2" (38mm) from the door face when connected to the main arm. Secure with forearm screw.
8. Adjust closer (See page 6) and install cover.

Power Adjustment Chart		
DOOR SIZE (INCHES)	Full clockwise turns of closer power adjustment nut (from "0" turns)	
	INTERIOR DOOR	EXTERIOR DOOR
24" - 30" (61 cm - 76 cm)	-4	0
30" - 34" (76 cm - 86 cm)	0	5
34" - 38" (86 cm - 97 cm)	6	10
38" - 48" (97 cm - 122 cm)	12	
48" - 54" (122 cm - 137 cm)		

NOTE: Maximum of 20 turns (360°) of power adjustment nut. Closer is shipped at 7 turns from the factory.

### Main Arm Installation Instructions



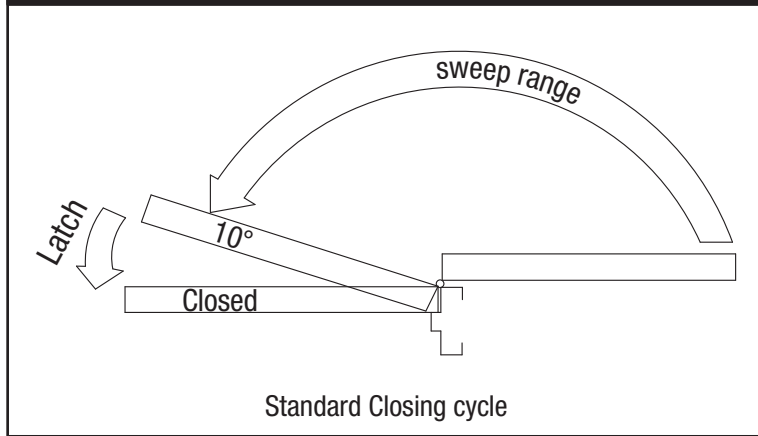
## Closer Adjustment

### Closing Speed Controls (Figures 1 and 2)

- Valve "S" controls sweep range
- Valve "L" controls latch range

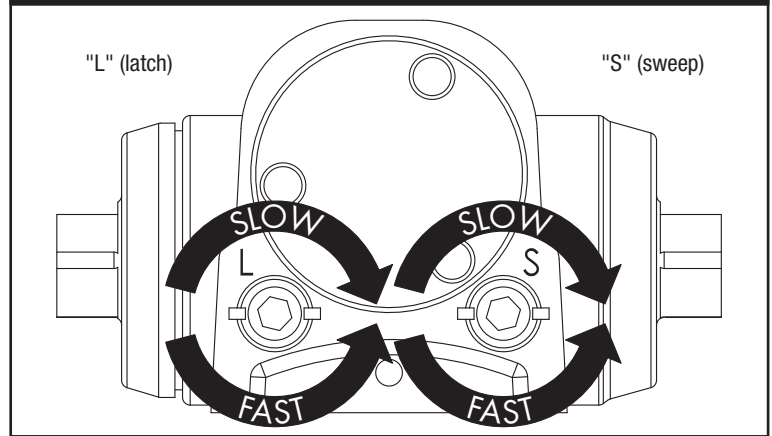
#### Closing Speed Controls

Figure 1



#### Closing Speed Controls

Figure 2

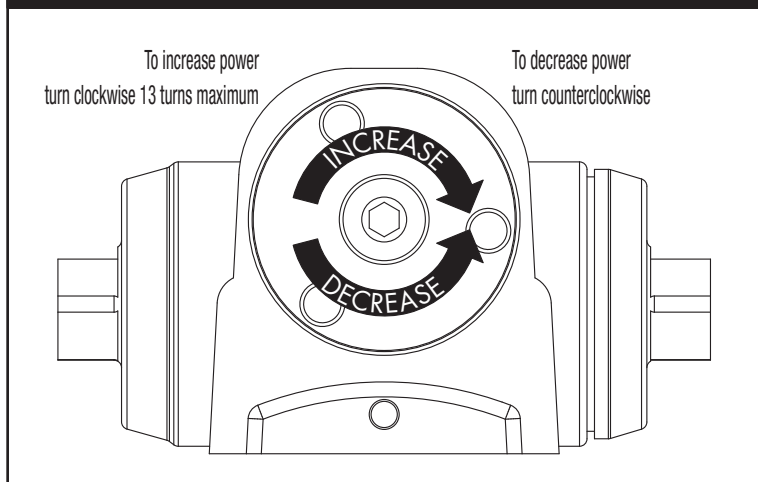


### Closing Power Control (Figure 3)

- Adjusted as required (see charts on pages 3, 4, & 5)

#### Closing Power Control

Figure 3

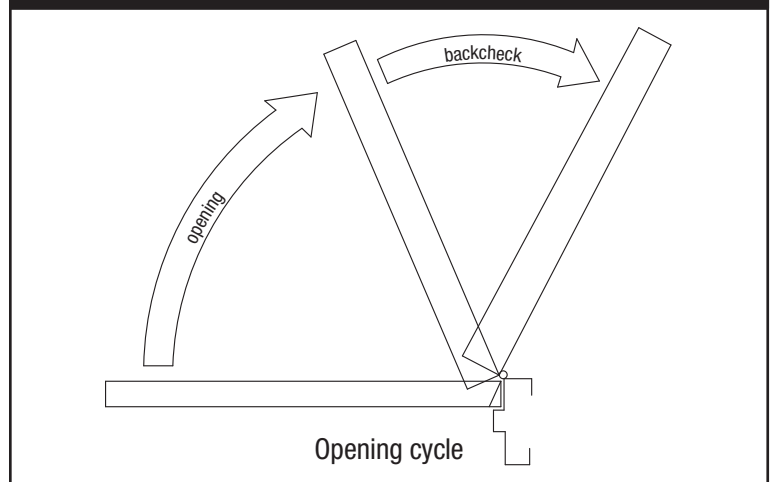


### Opening Door Control (Figures 4 and 5)

- Backcheck Valve controls the hydraulic resistance to door opening. Never close this valve completely — it is not to provide a position stop.

#### Opening Door Controls

Figure 4



#### Backcheck

Figure 5

