

# 1900 Series

Models 1902/4, 1905/6, PA1902/4, & PA1905/6

Regular and Parallel Arm, Non-Hold Open  
Installation Instructions

**ACCENTRA**

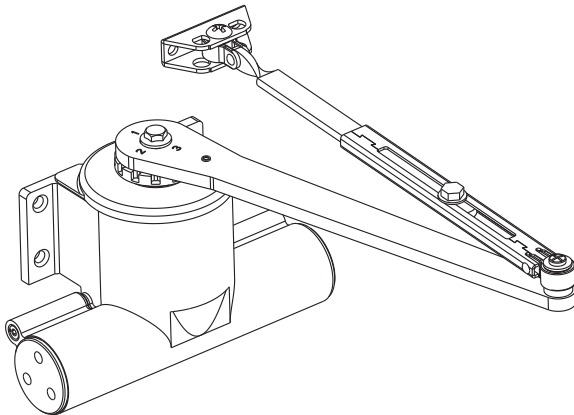
**ASSA ABLOY**

- Read these instructions before proceeding with the installation.
- Sex-bolts are required for mounting closer body or arm to non-reinforced hollow metal and wood or plastic-faced composite fire door.
- Make sure that the door opens the full angle desired and latches without binding action or interference.
- Select the type of installation from figure below.
- Check hand of door, see figure below. Hand of door closer must be the same as hand of door. Door closer is handed, but can be easily reversed. SEE PAGE 4 FOR INSTRUCTIONS FOR REVERSING HAND OF CLOSER.

**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.

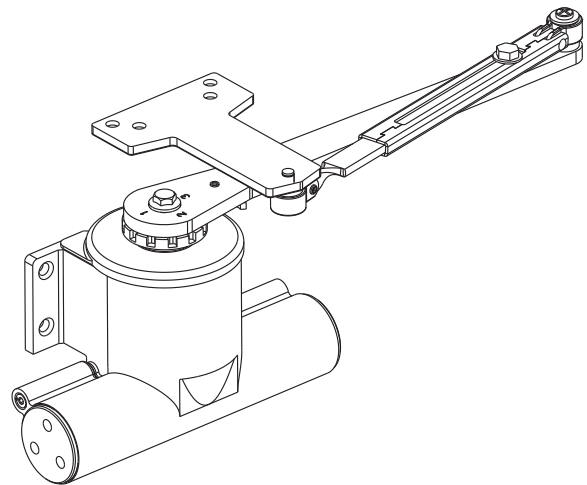
## Regular Arm Installation

For installation on PULL SIDE of door only.  
See page 2 for template and installation information.

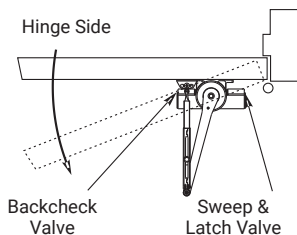


## Parallel Arm Installation

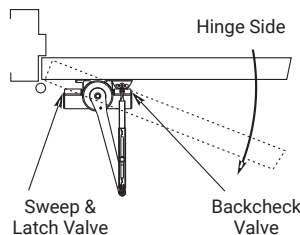
For installation on PUSH SIDE of door only.  
See page 3 for template and installation information.



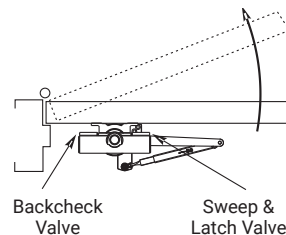
### Left Hand Door



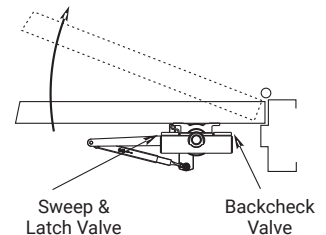
### Right Hand Door



### Left Hand Door



### Right Hand Door



## ⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

## ⚠ WARNING

Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

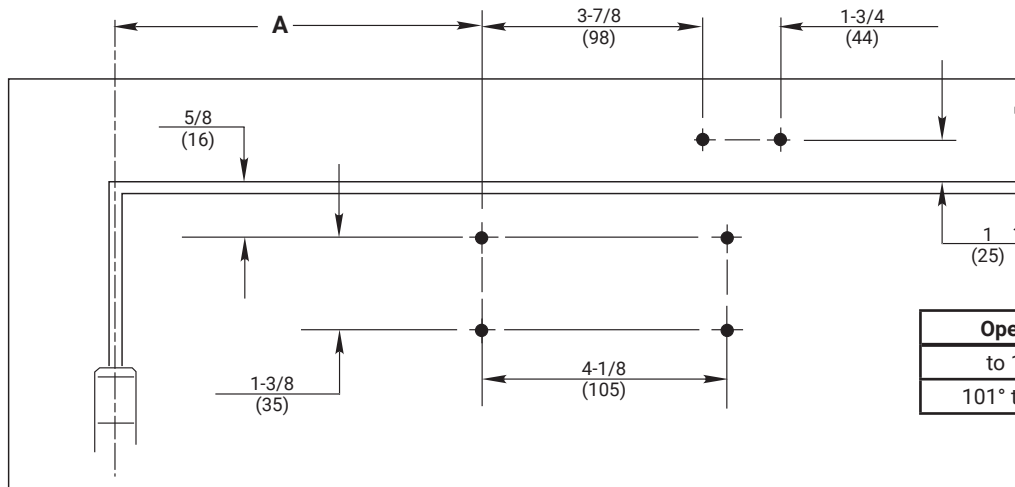
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**Regular Arm Installation (Right Hand Shown, Left Hand Opposite)**

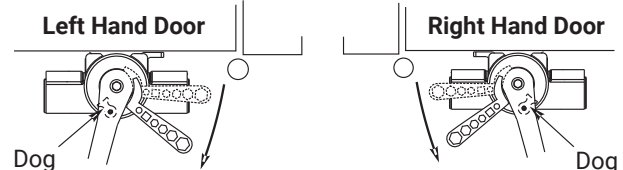
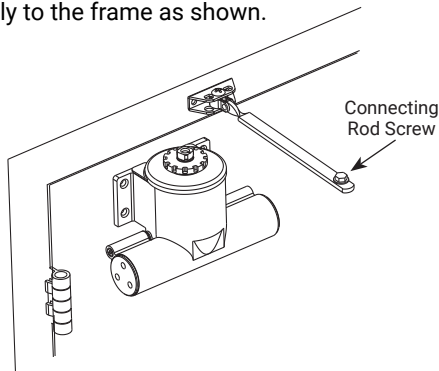


**NOTES:**

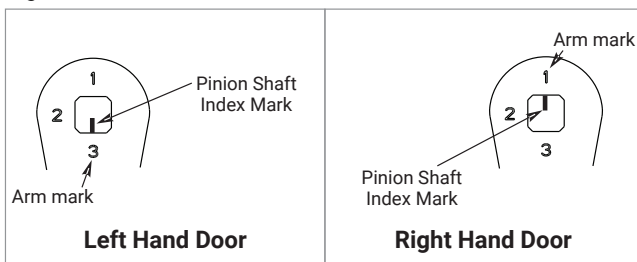
- Do not scale drawing.
- Dimensions shown in inches (mm).

Opening	Dimension "A"
to 100°	8-1/8 (206)
101° to 134°	6-1/8 (155)

1. Using the template above, select the angle of opening desired. Locate and mark the 4 holes on the door for the door closer body and the 2 holes on the frame for the arm shoe.
2. Prepare the door and frame for fasteners using the information from "Preparation for Fasteners" chart below.
3. Install closer body to door and the connecting rod / shoe assembly to the frame as shown.
5. Remove screw from connecting rod. Open door slightly and assemble connecting rod into tubular slide. Close door. Adjust secondary arm assembly so that the main arm is perpendicular (90°) to face of door. Tighten screw securely.
6. **Closing Tension** - Place wrench (packed with door closer) on ratchet as shown. Swing wrench away from hinge to wind spring between 3 to 10 notches, engage dog in ratchet. Increase or decrease spring power to suit conditions. **CAUTION** - Overwound spring (more than 10 notches) will cause spring breakage.



4. Following the main arm indexing illustrations as shown, place main arm assembly onto the closer pinion shaft. Install and tighten main arm screw with 1/2 in. wrench.



Preparation for Fasteners			
Fasteners		Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
		Wood*	3/16" (4.30mm)
	1/4"-20 Machine Screw	Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
		Aluminum or Wood*	3/8" (9.5mm) through
	Through-bolts and grommet-nuts	All	9/32" (7mm); 3/8" (9.5mm) dia. x 3.8" (9.5mm) deep on door face opposite of closer

\*A pilot hole must be drilled when using self-drilling screws on wood doors and frames.

● Go to Closer Adjustment Information on page 4.

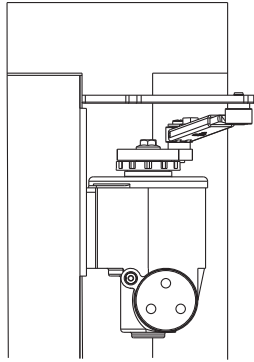
# Models 1902/4, 1905/6, PA1902/4, & PA1905/6

## Regular and Parallel Arm, Non-Hold Open

**ACCENTRA**  
**ASSA ABLOY**

### Parallel Arm Installation (Right Hand Shown, Left Hand Opposite)

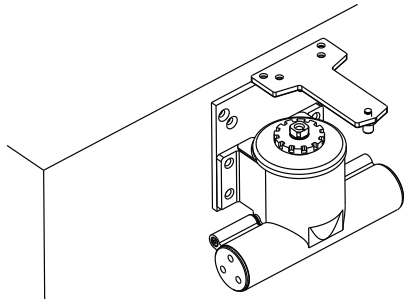
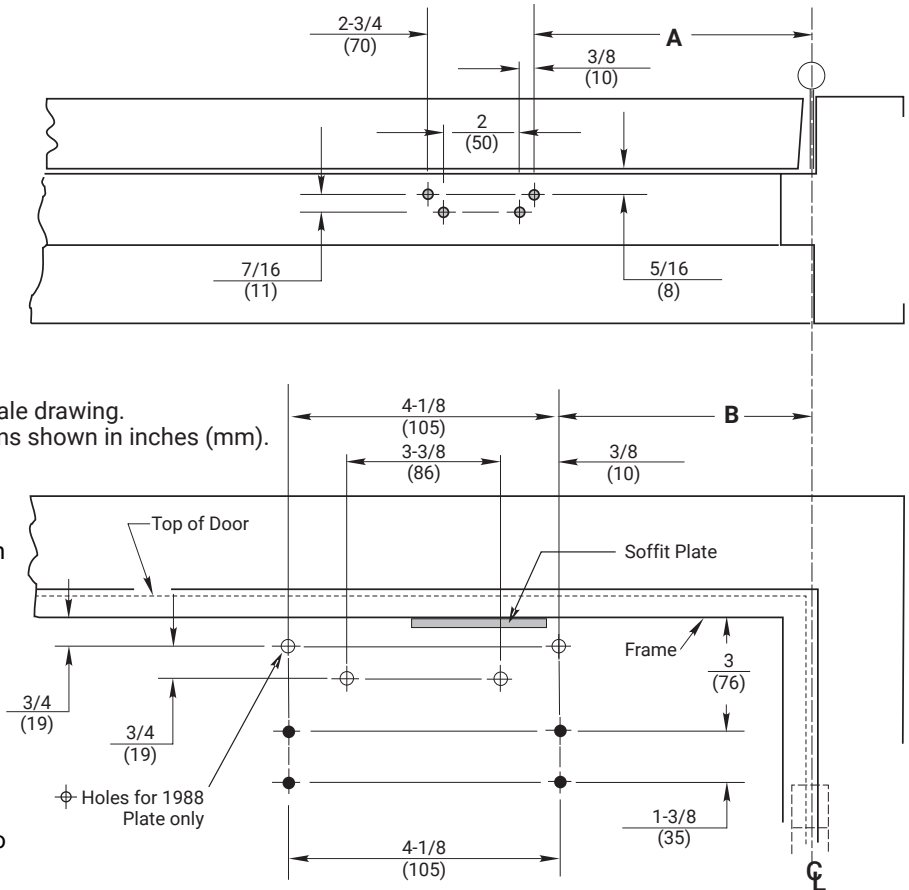
Opening	A	B
to 130°	7-3/4 (197)	8-1/2 (216)
131° to 180°	5-3/4 (149)	6-1/2 (165)



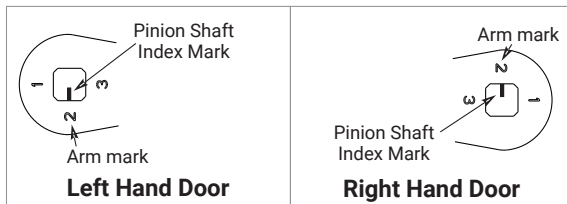
#### NOTES:

- Do not scale drawing.
- Dimensions shown in inches (mm).

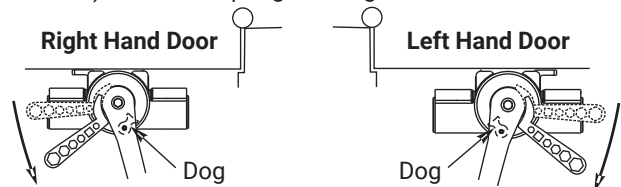
1. Using the template above, select the angle of opening desired. Locate and mark 4 holes on the door for either the closer body or 1988 drop plate and the 4 holes on the frame for 1618 soffit plate.
2. Prepare the door and frame for fasteners using the information from "Preparation for Fasteners" on page 2.
3. Install closer body to door. If 1988 drop plate is used, mount it first, then fasten the closer to the drop plate. Fasten soffit plate to frame soffit with 4 mounting screws.



4. Following the main arm indexing illustrations as shown below, place main arm assembly onto the closer pinion shaft. Install and tighten main arm screw with 1/2 in. wrench.



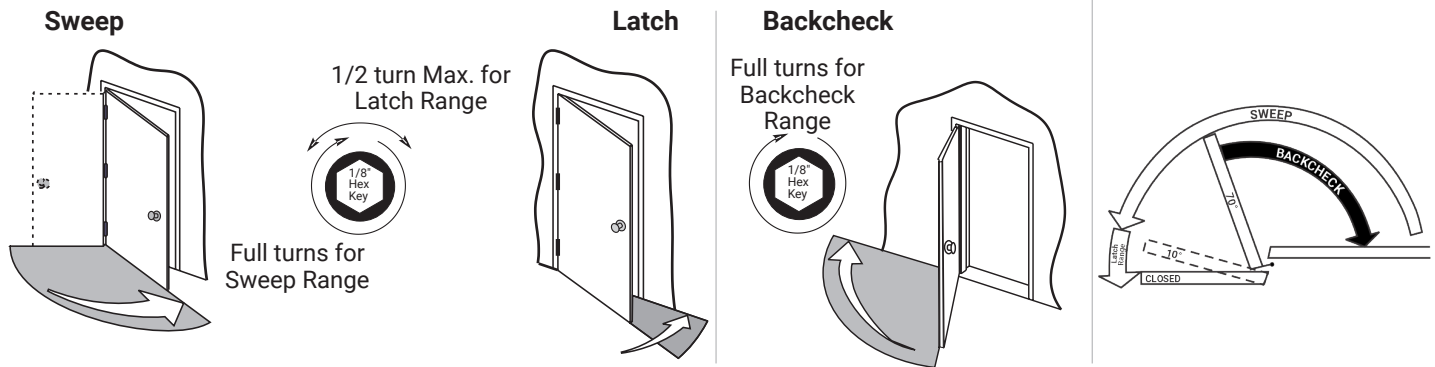
5. Remove screw from connecting rod. Open door slightly and assembly connecting rod into tubular slide. Close door. Adjust secondary arm assembly so that the main arm is approximately parallel with face of door. Tighten screw securely.
6. Closing Tension - Place wrench (packed with door closer) on ratchet as shown. Swing wrench toward hinge to wind spring between 3 to 10 notches, engage dog in ratchet. Increase or decrease spring power to suit conditions. CAUTION - Overwound spring (more than 10 notches) will cause spring breakage.



● Go to Closer Adjustment Information on page 4.

## Adjustments

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



### Regular Arm Closer Adjustment

**Closing Speed:** Controlled by the regulating valve on the end of the closer closest to the hinge.

**Sweep Speed:** Controls the door's speed in the sweep speed range, shown above. Full 360° clockwise turns decreases the sweep speed. Full 360° counter-clockwise turns increases the sweep speed.

**Latch Speed:** Controls the door's speed in the latch range, shown above. A partial turn, up to a maximum of 1/2 turn (180°) in either direction determines the latch speed.

**Backcheck:** Controlled by the regulating valve on the end of the closer farthest from the hinge. Backcheck cushions or slows the door opening speed near the end of the opening cycle. Full 360° clockwise turns increases resistance to opening. Full 360° counter-clockwise turns decreases resistance to opening.

**NOTE:** If backcheck is encountered extremely early in the opening cycle, rotate the valve 1/2 turn (180°) to eliminate early opening resistance.

**CAUTION:** To avoid damage to closer, never fully close the backcheck regulating valve.

### Parallel Arm Closer Adjustment:

**Closing Speed:** Controlled by the regulating valve on the end of the closer farthest from the hinge.

**Sweep Speed:** Controls the door's speed in the sweep speed range, shown above. Full 360° clockwise turns decreases the sweep speed. Full 360° counter-clockwise turns increases the sweep speed.

**Latch Speed:** Controls the door's speed in the latch range, shown above. A partial turn, up to a maximum of 1/2 turn (180°) in either direction determines the latch speed.

**Backcheck:** Controlled by the regulating valve on the end of the closer closest to the hinge. Backcheck cushions or slows the door opening speed near the end of the opening cycle. Full 360° clockwise turns increases resistance to opening. Full 360° counter-clockwise turns decreases resistance to opening.

**NOTE:** If backcheck is encountered extremely early in the opening cycle, rotate the valve 1/2 turn (180°) to eliminate early opening resistance.

**CAUTION:** To avoid damage to closer, never fully close the backcheck regulating valve.

### Reversing Closer Hand

To Reverse Closer Hand:

1. Remove main arm screw, arm assembly, ratchet, and top cover.
2. Lift out spring using screwdriver wedged between coils (see figure at right).
3. Reverse spring and re-assemble to required hand (see figure at right).
4. Rotate shaft to required hand (see figure at right).
5. Replace cover and insert ratchet, lining up slot with inner hook on spring.

