

78-B/F Series

Models 78-B/F-PRA & 78-B/F-PRHA

Non-Hold Open & Hold Open, w/2019S, 2019L, 6890, or 6891 Soffit Accessories
& Optional 88 Drop Plate

Installation Instructions

NORTON
RIXSON

ASSA ABLOY

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.

READ AND FOLLOW ALL INSTRUCTIONS.
SAVE THESE INSTRUCTIONS.

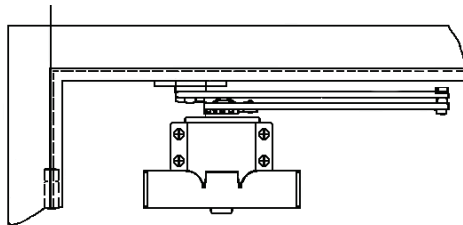
CAUTION

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.

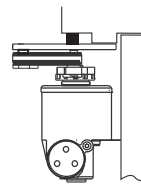
- Read these instructions before proceeding with the installation.
- Make sure that the door opens the full angle desired and latches without any binding action or interference.
- Select the type of installation from the following illustrations:

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.

Standard Frame Mount See page 3

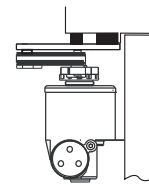


With 2019S Block

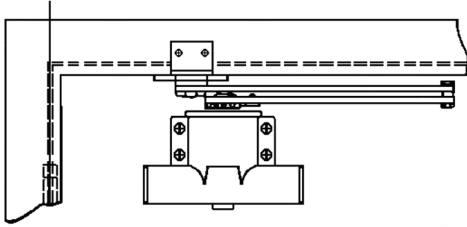


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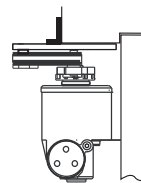
2019S & 6891 Blocks



Narrow Frame Mount See page 4

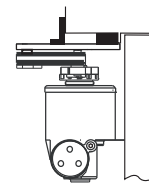


With 6890 Bracket

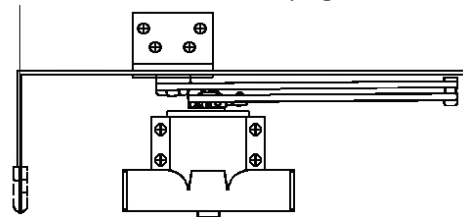


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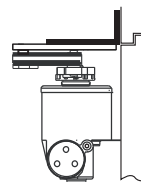
6890 Bracket & 6891 Block



Flush Frame Mount See page 5

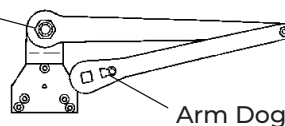


With 2019L Bracket



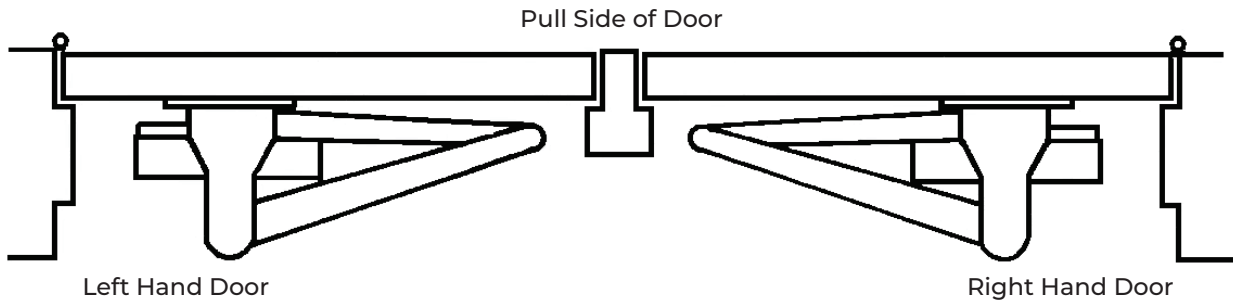
Hold Open Arm

Hold Open
Adjustment Nut



Arm Dog

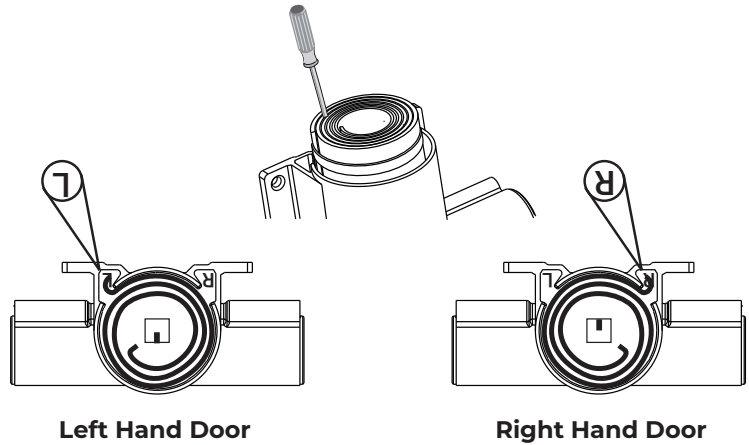
Determining Hand of Door



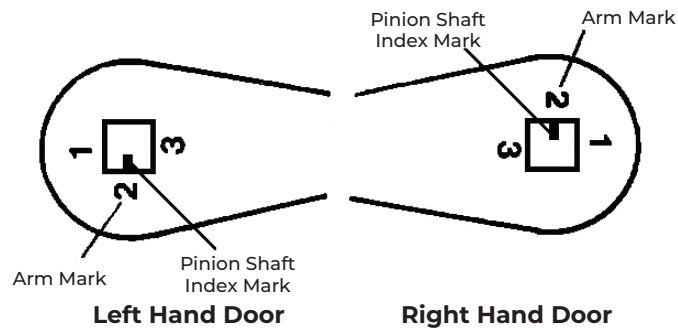
Reversing Closer Hand

To Reverse Closer Hand:

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



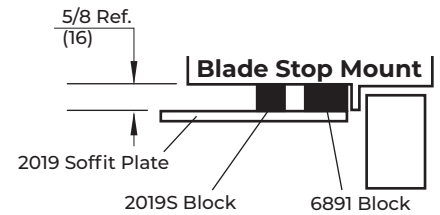
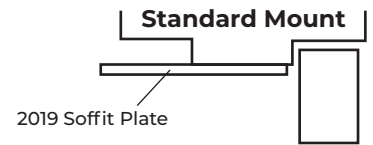
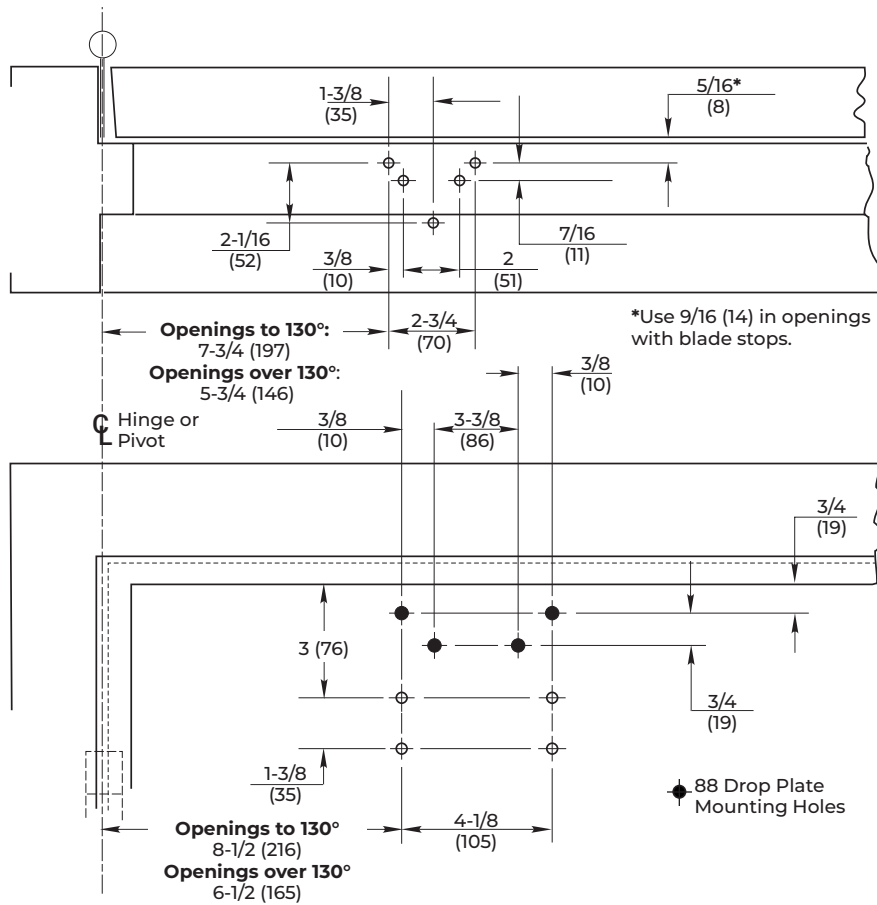
Indexing of Main Arm



78-B/F Series

Parallel Arm, Non-Hold Open

Standard Frame Installation



NOTES:

- Left Hand Door shown
- Same dimension apply for Right Hand Door, measured from centerline of pivot point.
- Do not scale drawing.
- Dimensions shown in inches (mm).

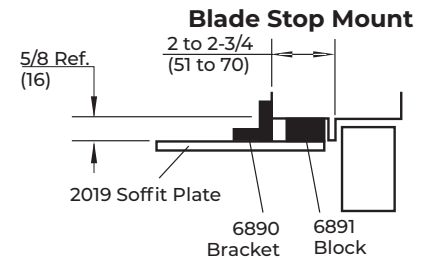
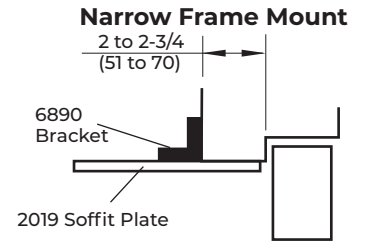
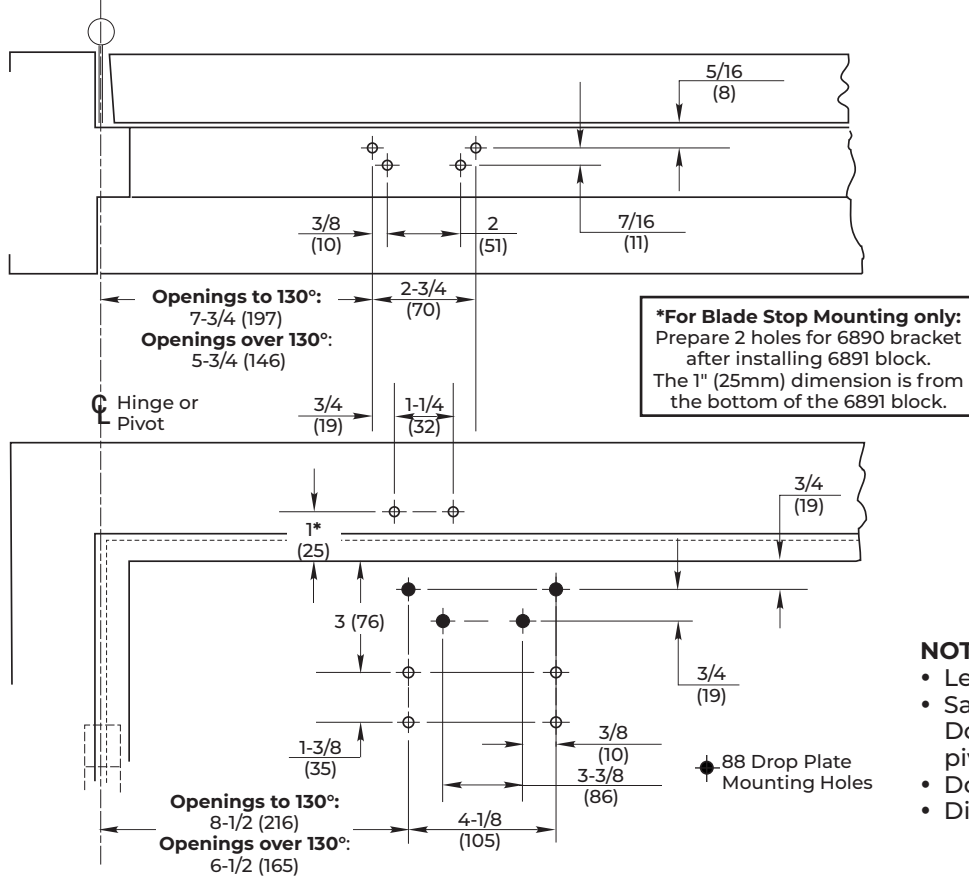
Preparation for Fasteners			
Fasteners	Application	Door or Frame	Drill-Sizes
Sex nuts and bolts	Closer, Drop Plate	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
		Aluminum or Wood	3/8" (9.5mm) through
#14 x 1-1/4" (32mm), type "A" Sheet Metal screws	Soffit Plate, 6190 Bracket	Wood	3/16" (4.3mm)
		Aluminum	7/32" (5.5mm)
1/4"-20 Machine Screw		Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20

Installation Sequence

1. From the template above, select the angle of opening desired. Locate and mark four (4) holes on the door for the closer body or 88 drop plate, if used. Locate and mark five (5) holes on frame header for mounting soffit plate.
2. Prepare the door and frame for fasteners (see "Preparation for Fasteners" above).
3. Mount the drop plate, if used. Install the closer body to the door or fasten the closer body to the drop plate.
4. Following the main arm indexing illustrations on page 2, place the main arm onto the closer pinion shaft. Install and tighten the main arm screw with a 1/2" wrench.
NOTE: Do not engage the arm dog into closer ratchet at this time.
5. Open the door and attach the soffit plate to the frame header.
NOTE: Depending on the type of application, use shim blocks if needed.

● Go to Closer Adjustment Information on page 6.

Narrow Frame Installation



NOTES:

- Left Hand Door shown
- Same dimension apply for Right Hand Door, measured from centerline of pivot point.
- Do not scale drawing.
- Dimensions shown in inches (mm).

Preparation for Fasteners			
Fasteners	Application	Door or Frame	Drill-Sizes
Sex nuts and bolts	Closer, Drop Plate	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
		Aluminum or Wood	3/8" (9.5mm) through
#14 x 1-1/4" (32mm), type "A" Sheet Metal screws	Soffit Plate, 6190 Bracket	Wood	3/16" (4.3mm)
		Aluminum	7/32" (5.5mm)
1/4"-20 Machine Screw		Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20

Installation Sequence

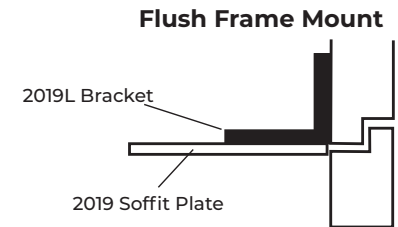
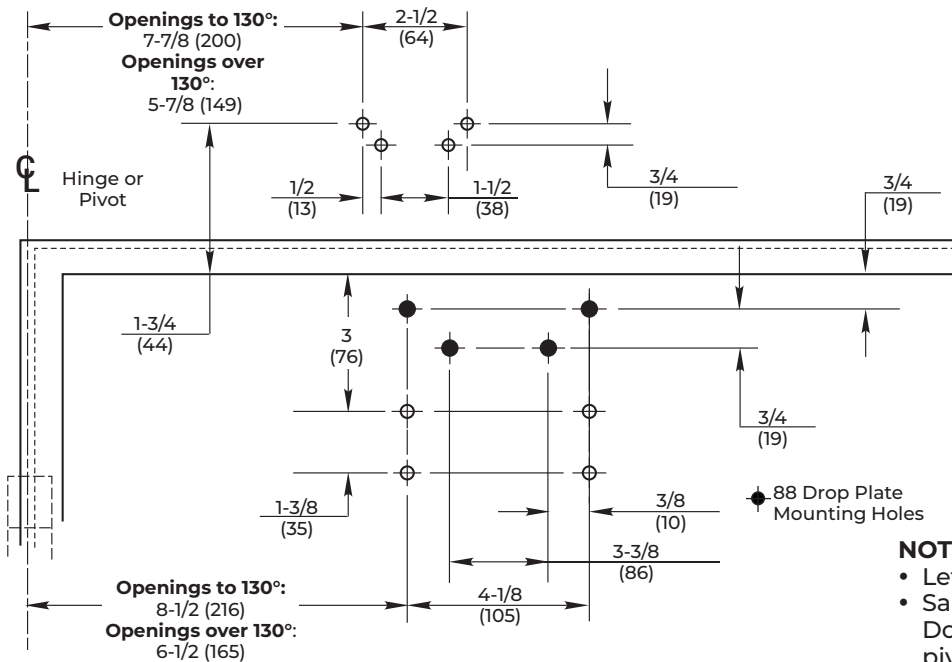
1. From the template above, select the angle of opening desired. Locate and mark four (4) holes on the door for the closer body or 88 drop plate, if used. Locate and mark six (6) holes on frame face and header for arm mounting. Measurements on header are taken from the frame face.
2. Prepare the door and frame for fasteners (see "Preparation for Fasteners" above).
3. Mount the drop plate, if used. Install the closer body to the door or fasten the closer body to the drop plate.
4. Following the main arm indexing illustrations in on page 2, place the main arm onto the closer pinion shaft. Install and tighten the main arm screw with a 1/2" wrench.
NOTE: Do not engage arm dog into closer ratchet at this time.
5. Open the door and attach the soffit plate and bracket to the frame header.
NOTE: Depending on type of application, use shim blocks if needed.

● Go to Closer Adjustment Information on page 6.

78-B/F Series

Parallel Arm, Non-Hold Open

Flush Frame Installation



NOTES:

- Left Hand Door shown
- Same dimension apply for Right Hand Door, measured from centerline of pivot point.
- Do not scale drawing.
- Dimensions shown in inches (mm).

Preparation for Fasteners			
Fasteners	Application	Door or Frame	Drill-Sizes
Sex nuts and bolts	Closer, Drop Plate	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
		Aluminum or Wood	3/8" (9.5mm) through
#14 x 1-1/4" (32mm), type "A" Sheet Metal screws	Soffit Plate, 6190 Bracket	Wood	3/16" (4.3mm)
		Aluminum	7/32" (5.5mm)
1/4"-20 Machine Screw		Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20

Installation Sequence

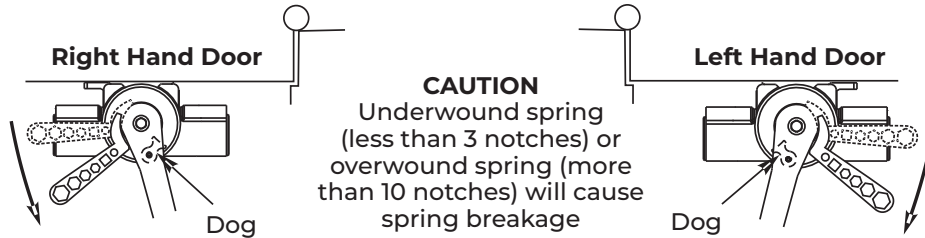
1. From the template above, select the angle of opening desired. Locate and mark four (4) holes on the door for the closer body or 88 drop plate, if used. Locate and mark four (4) holes on frame face for "L" bracket.
2. Prepare the door and frame for fasteners (see "Preparation for Fasteners" above).
3. Mount the drop plate, if used. Install the closer body to the door or fasten the closer body to the drop plate.
4. Following the main arm indexing illustrations on page 2, place the main arm onto the closer pinion shaft. Install and tighten the main arm screw with a 1/2" wrench.
NOTE: Do not engage the arm dog into closer ratchet at this time.
5. Open the door and attach "L" bracket to frame header. Fasten the soffit plate to "L" bracket.

● Go to Closer Adjustment Information on page 6.

Adjustments

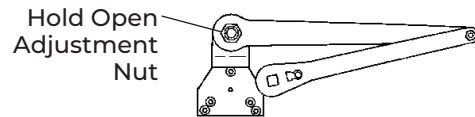
Closing Tension

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.



Hold Open Adjustment

Open the door to the angle of hold open desired and tighten the hold open adjustment nut with the wrench supplied.



Parallel Arm Closer Adjustment:

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

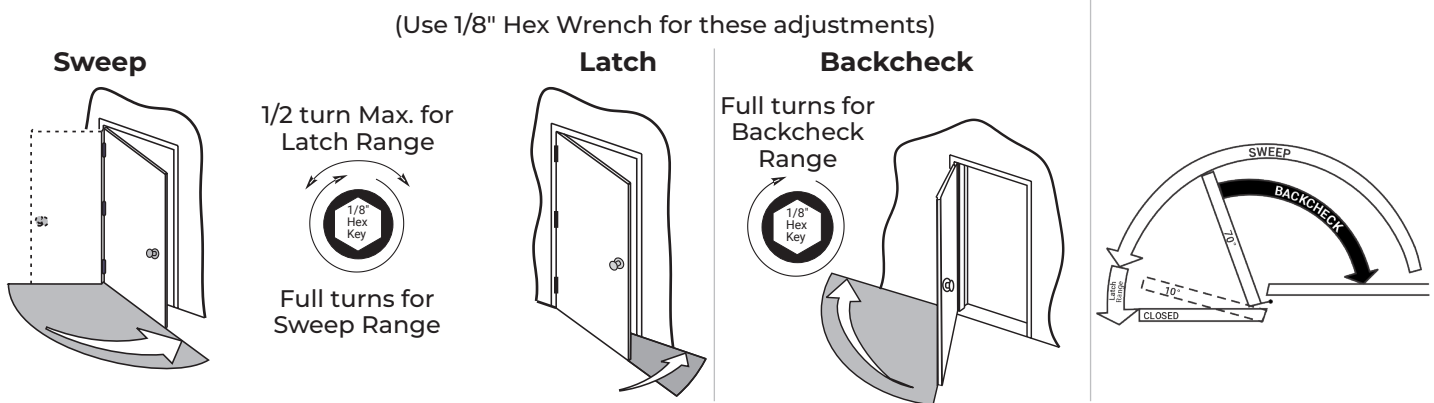
Sweep Speed: Controls the door's speed in the sweep speed range, shown above. Full 360° clockwise turns decreases the sweep speed. Full 360° counter-clockwise turns increases the sweep speed.

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 the closer, never fully close the backcheck regulating valve.



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NortonRixson.com

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