

Installation Instructions

Parallel Rigid Arm Door Closers (PR) **CloserPlus Door Closers (CLP)**

Model Numbers Included:

Multi Size Closer An incorrectly installed or improperly ⋗ adjusted door closer can cause **UTION** PR1601 property damage or personal injury. These instructions should be followed CLP1601 to avoid the possibility of misapplication or misadjustment. Note: "X" is Sized Closer number

Sized Closer **PR160XBC** CLP160XBC

Additional Closer Options:

- "H" indicates Hold-Open function for "PR" arms. Arms are handed

ō

E

∡

- "T" indicates Thumbturn actuated Hold-Open control for "CLP" arms.

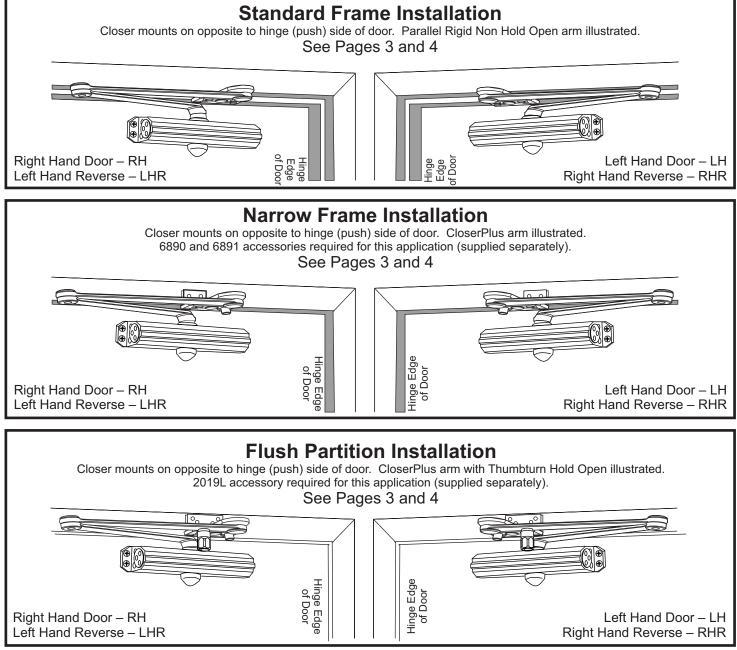
Optional Accessories:

- 1688 Drop plate

- 2019L, 6890, 6891 Soffit Plate Accessories.

designates power size of closer 3 or 4.

NOTE: For special applications a separate door and frame preparation template is packed with these instructions. In those cases, use this instruction sheet for installation sequence and closer adjustments only.



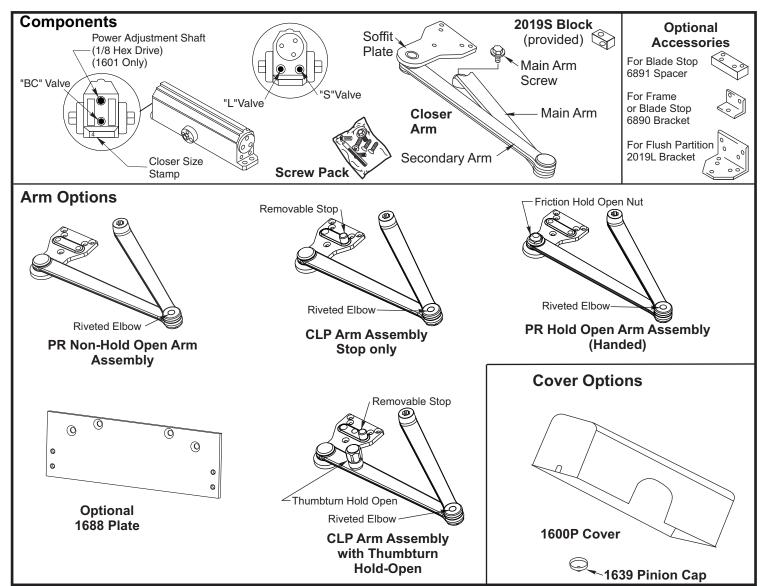
Copyright © 2016 Yale Security Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.

ASSA ABLOY, the global leader in door opening solutions 80-9316-2537-020 Rev 1









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

Copyright © 2016 Yale Security Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited. 2 ASSA ABLOY, the global leader in door opening solutions

Installation Instructions



ASSA ABLOY

- Select angle of opening and use dimensions shown on Page 4 and Dimension Chart below to locate 4 holes on stop side of door for closer body (*or 4 holes on stop side of door for 1688 drop plate, only if required, see Page 5*), and 5 holes on stop and/or rabbet for Soffit Plate (or 4 holes on face of transom for 2019L bracket). For applications not covered in these instructions, a separate template will be required.
- Prepare door and frame for fasteners. See "Preparation for Fasteners", Page 2.
- 1601 closers only: Set closer power for door size using Power Adjustment Chart below. Use 1/8" hex wrench supplied to adjust Power Adjustment Shaft ... 18 turns maximum. Turn nut CLOCKWISE to Increase, COUNTER-CLOCKWISE to Decrease power. See Page 6 for the illustration of this step.
- Mount 1688 Drop plate ... only if required (see Page 5).
- Install closer with "S" and "L" valves away from hinge edge of door. Note: If using cover, thread in screws before mounting closer. Leave enough gap between the head of the screw and the closer to slide the cover on.

Power Adjustment Chart									
	PARALLEL ARM INSTALLATION	*	MAXIMUM DOOR SIZE						
DOOR			34" (0.85 m)	36" (0.9 m)	40" (1 m)	44" (1.1 m)	48" (1.2 m)		
INT	PR1601/	0°TURNS DWER TMENT AFT	3	5	8	11	14		
EXT	CLP1601	FULL 360 OF PO ADJUST SHA	5	8	11	16	19		
*30 -360° TURNS MAXIMUM AVAILABLE (Shipped at approximately 8 turns)									

Installation Dimensions Chart											
	D	im	Up to 85°	85°- 90°	90°- 95°	95°- 100°	100°- 105°	105°- 110°	110°- 130°	130°- 180°	
	Standard and Narrow Frame	A	in.	9-5/8				8-1/8			6-1/8
			(mm)	(244)				(206)			(156)
		В	in.	7-5/8				6-1/8			4-1/8
			(mm)	(194)				(156)			(105)
		С	in.	8-5/8				7-1/8			5-1/8
PR1601/			(mm)	(219)				(181)			(130)
PR160XB	С	Α	in.		9-3				8-1/4		6-1/4
	Flush Partition		(mm)	(248)				(210)			(159)
		В	in.	7-5/8				6-1/8			4-1/8
			(mm)	(194)				(156)			(105)
		C	in.	8-5/8				7-1/8			5-1/8
		(mm)	(219)				(181)			(130)	
	Standard and Narrow Frame	A	in.	11-1/8	10-3/8	9-5/8	9	8-3/8	7-3/4		
		dard Id D	(mm)	(283)	(264)	(244)	(229)	(213)	(197)		
			in.	9-1/8 (232)	8-3/8	7-5/8	(170)	6-3/8 (162)	5-3/4		
		<u> </u>	(mm)	10-1/8	(213)	(194) 8-5/8	(178) 8	7-3/8	(146)		
		C	in. (mm)	(257)	9-3/8 (238)		(203)	(187)	6-3/4 (171)		
CLP1601/		_	(mm) in.	(257) 11-1/4	(230)	(219) 9-3/4	9-1/8	8-1/2	(171) 7-7/8		
CLP160XI	SC Flush Partition	A	(mm)	(286)	(267)	(248)	(232)	(216)	(200)		
			(IIIII) in.	9-1/8	8-3/8	7-5/8	7	6-3/8	5-3/4		
		B	(mm)	(232)	(213)	(194)	(178)	(162)	(146)		
			in.	10-1/8	9-3/8	8-5/8	8	7-3/8	6-3/4		
		C	(mm)	(257)	(238)	(219)	(203)	(187)	(171)		
			. /	(201)	(200)	(210)	(200)	(101)	((()))		

Copyright © 2016 Yale Security Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.

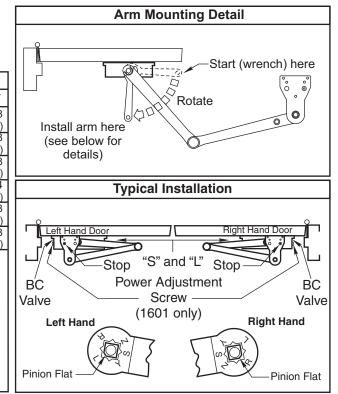
 Install Main Arm: Close valves - 'S' and 'L', then turn pinion shaft more than 50° to permit proper alignment of arm mark with pinion flat -

'L' for Left hand door.'R' for Right hand door.See "Main Arm Installation Instructions" below.

• Make closer adjustments (see page 6) before installing cover ... CAUTION: Do not back valves out of closer completely or a leak will result.

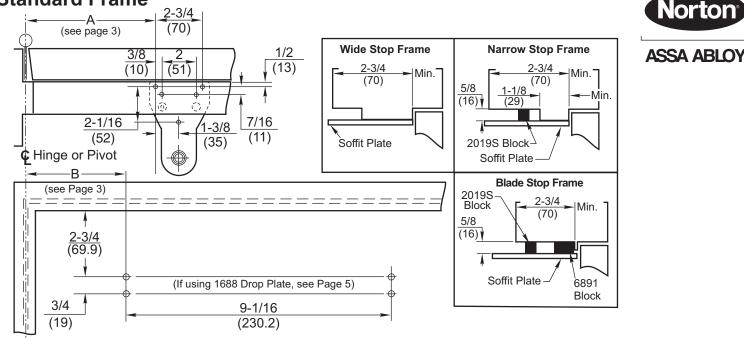
Caution: Closer arm is under spring tension and may be difficult to rotate.

- Reopen valves by turning counter clockwise.
- With door closed, align soffit plate with mounting holes in frame. Fasten soffit plate to frame with oval head screws provided.... use spacer blocks 2019S or 6891, if required.
- If being used, slide the cover over the closer and secure the mounting screws after the closer has been mounted and adjusted.

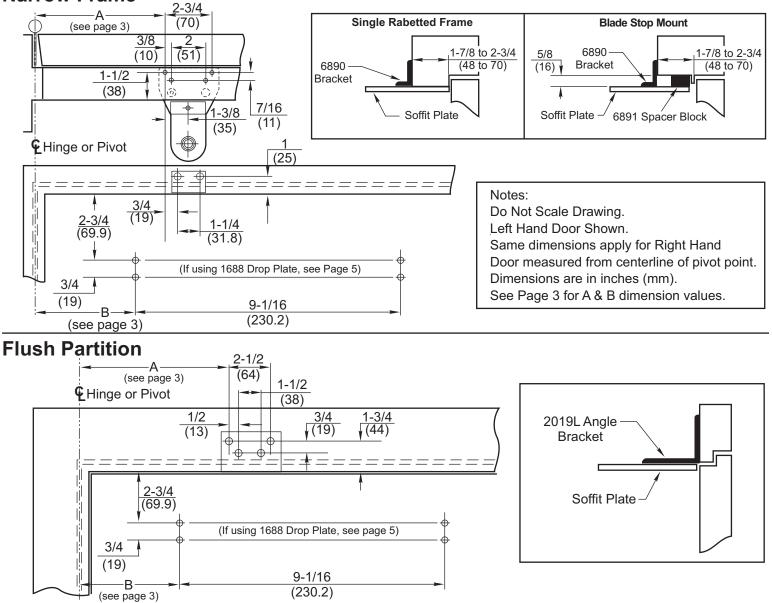


ASSA ABLOY, the global leader in door opening solutions

Standard Frame



Narrow Frame



Copyright © 2016 Yale Security Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.

1688 Drop Plate Mounting Holes



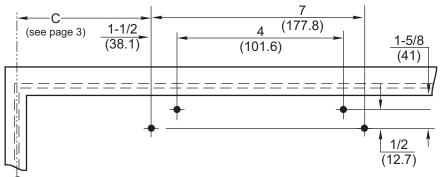
 \square

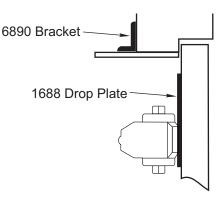
Standard Frame C (177.8)(see page 3) 1 - 1/24 1-5/8 (38.1) (101.6)(41)1688 Drop Plate 1/2(12.7)Hinge or Pivot Notes: Left Hand Door Shown. Same dimensions apply for Right Hand

Dimensions are in inches (mm). See Page 3 for C dimension values.

Door measured from centerline of pivot point.

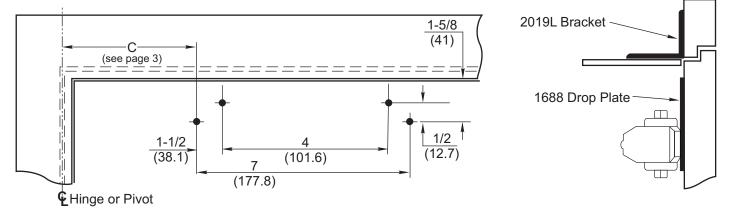
Narrow Frame





Hinge or Pivot

Flush Partition



Thumbturn Hold-Open Feature

The Thumbturn Hold-Open feature is controlled by the knob located on the arm of the unit. Turning this knob clockwise will engage the Hold-Open mechanism and increase the Hold-Open force. Turning this knob counterclockwise will reduce the Hold-Open force and disengage the Hold-Open mechanism. DECREASE - - INCREASE

> Thumbturn Action (Units suffixed "T")

Copyright © 2016 Yale Security Inc., an ASSA ABLOY Group company. All rights reserved. 5 Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.

Friction Hold-Open Feature

Hold door open to opening angle desired and tighten holderadjustment-nut (wrench supplied) or use 1" Box or Open End wrench.



ASSA ABLOY, the global leader in door opening solutions 80-9316-2537-020 Rev 1

Unit Adjustment

Closing Power Adjustment-

Using "Power Adjustment Chart" from Page 3, select the correct number of turns for power adjustment shaft that corresponds with the installation. With 1/8" hex-key provided, rotate adjustment shaft full 360° clockwise turns to desired setting. After closer has been installed and proper adjustments made to the sweep and latch, it may be necessary to readjust spring power for good closing action.

Control Valve Adjustments

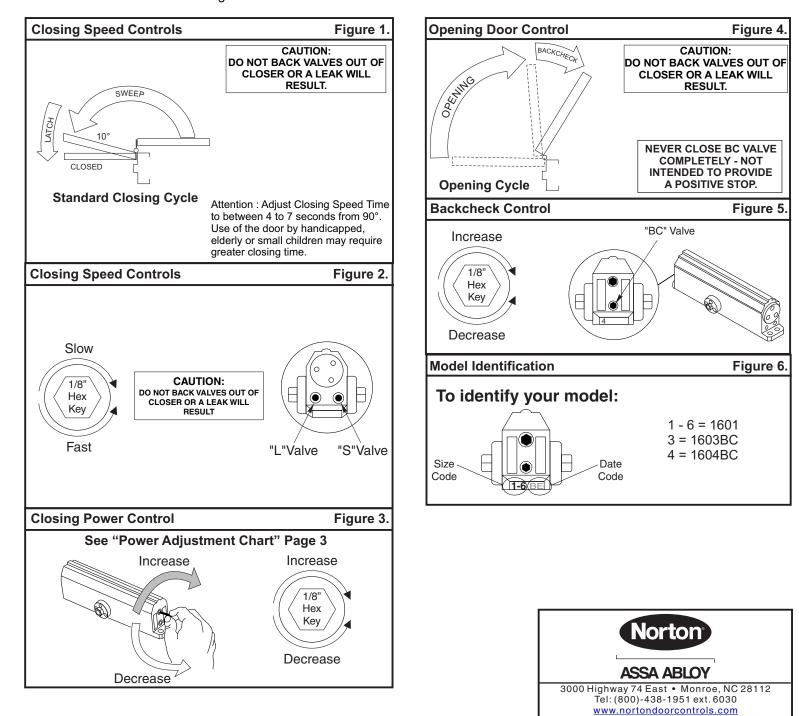
(See Figure 2.)

Closing Speed Controls (Figure 1and 2.)

Valve "S" Controls Sweep Range. Valve "L" Controls Latch Range.

Opening Cycle

"Backcheck" valve controls the strength of cushioning in Backcheck Range (approximately 70° to maximum swing). NEVER close this valve completely – it is not to provide a positive stop. (see Figure 4 and Figure 5).



support.aadcg@assaabloy.com