

STA 8616 AR/ARJ/ARP

Round arm for regular, top jamb, parallel mount
Stainless steel, corrosion resistant

Installation instructions

08280720 – 03-2021

| EN |

dormakaba 

! Caution: sex nuts are required for attachment of components to unreinforced doors and to wood or plastic faced composite type fire doors, unless an alternative method is identified in the individual door manufacturer's listings.

! When installing main arm attachment observe directions closely.

! Confirm dead stop degree prior to door and frame preparations.

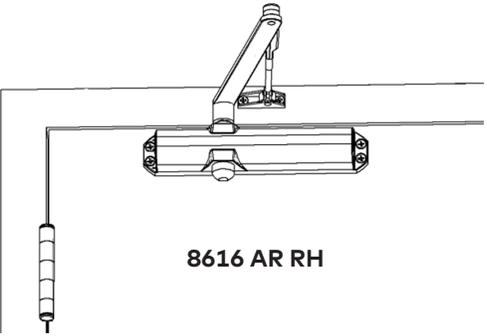
! Make sure door efficiently operates prior to installing closer.

1 Instructions

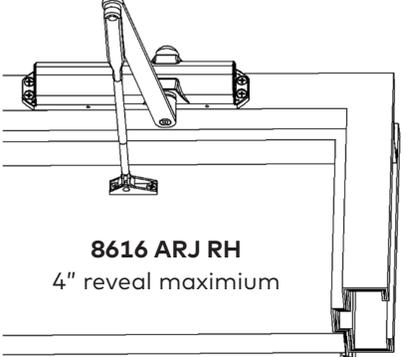
1.1 Overall - installation types

Fig.1

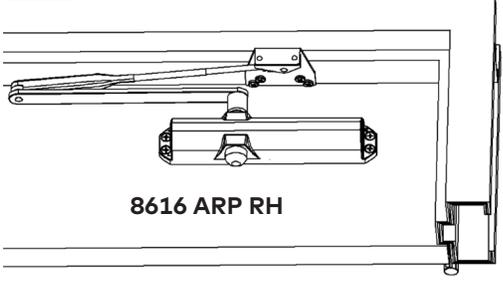
Right hand installation



8616 AR RH



8616 ARJ RH
4" reveal maximum

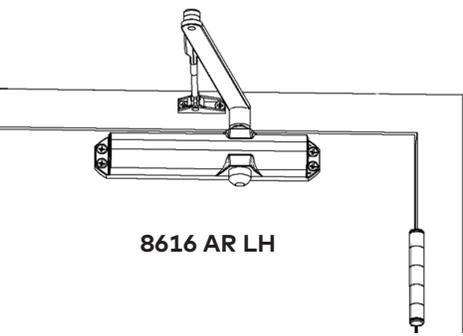


8616 ARP RH

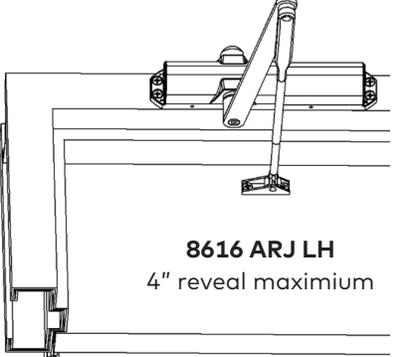
ATTENTION!
Before you begin, determine installation type AT, ARJ, or ARP and hand of door (RH or LH).

Also, make sure you have the tools listed below.

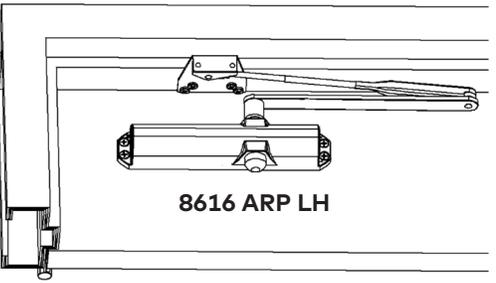
Left hand installation



8616 AR LH



8616 ARJ LH
4" reveal maximum



8616 ARP LH

Tools

Tape, Tape Measure	#3 Cross-Point Screw Driver	
Center Punch and Hammer	1/2" Box Wrench	
3/16" Slotted Screw Driver	10" Adjustable Wrench	

List:

7/32, 5/32, 1/8 Drill Bits and Drill
1/4-20 Tap & Holder
5mm hex wrench

1.2 Installing arm STA 8616 AR - Arm round (Regular)/mount pull side door

Fig.2

1
Pry apart connecting arm (3) tube from main arm (2).

2
Thread the connecting tube (3) and rod shoe (4) together.

5
Combo Flat Head Screw x4

6
Pan Head Combo Screw x2

3 Prepare door and frame using the template provide in the back of the instructions. Attach the closer (1) to the door using 4 combo flat head screws (5). Attach connecting arm (4) to the frame with 2 combo pan head screws (6). Attach main arm (2) per hand and secure tightly with socket head screw (7) see 3A.

3A

Standard closing power foot orientation shown above, for 15% more closing power invert shoe 180 degrees.

Right Hand

Left Hand

Right Hand

Parts list:

No.	Description	Qty
1)	Closer	1
2)	Main Arm	1
3)	Connecting Arm	1
4)	Rod and Shoe	1
5)	Flat Head Combo Screws	4
6)	Pan Head Combo Screw	2
7)	Socket Head Cap Screw	1
8)	Dust Cap	1

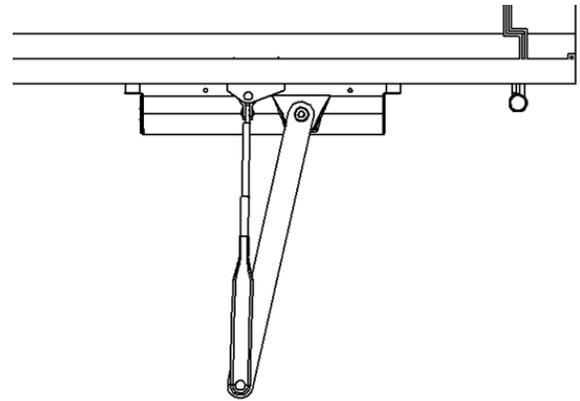
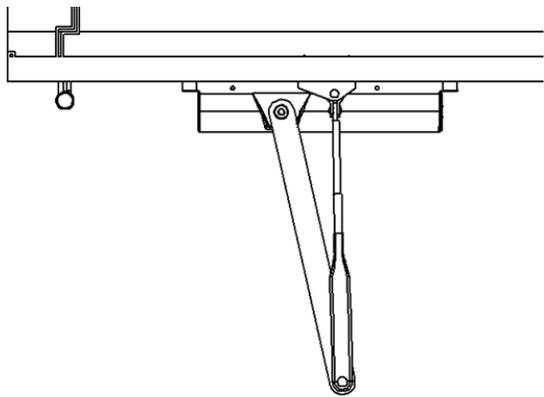
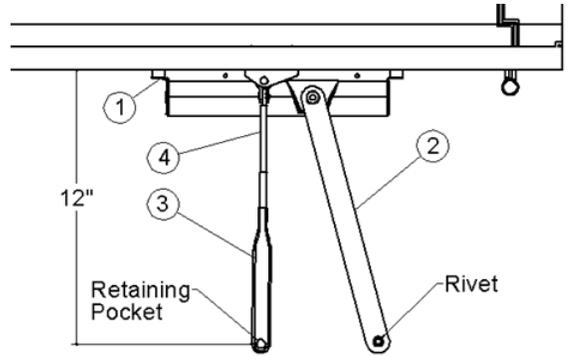
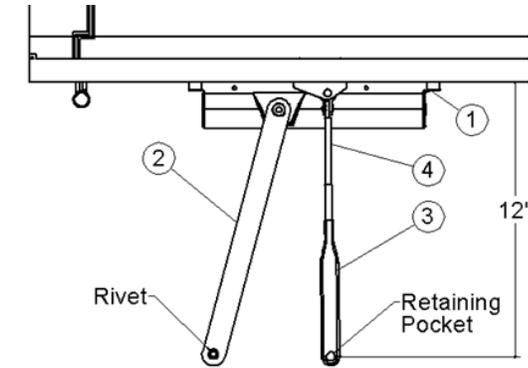
Left Hand

1.3 Installing arm STA 8616 AR (continued)

Fig.3

3B

Preload main arm (2) by rotating approximately 10 degrees and press rivet head into the retaining pocket on the connecting arm (4).



4

Back Plate Mounting

See template for mounting information

1.4 Installing arm STA 8616 ARJ - Arm Round (top) Jamb/Mount Push Side of Door

Fig.4

1

Pry apart connecting arm (3) tube from main arm (2).

2

Thread the connecting tube (3) and rod shoe (4) together.
Length = 12" plus the reveal depth

5

Combo Flat Head Screw x4

6

Pan Head Combo Screw x2

3 Prepare door and frame using the template provide in the back of the instructions. Attach the closer (1) to the door using 4 combo flat head screws (5). Attach connecting arm (4) to the frame with 2 combo pan head screws (6). Attach main arm (2) per hand and secure tightly with socket head screw (7) see 3A.

3A Standard closing power foot orientation shown above, for 15% more closing power invert shoe 180 degrees.

Left Hand

Right Hand

Left Hand

Right Hand

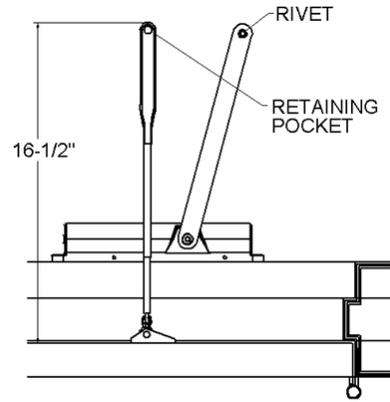
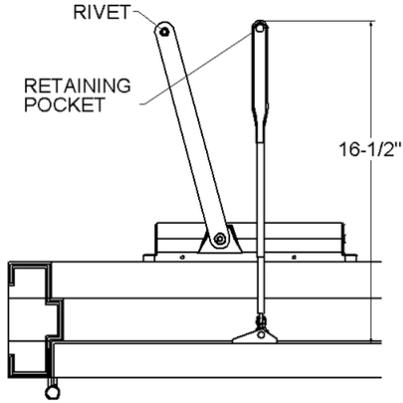
Parts list:		
No.	Description	Qty
1)	Closer	1
2)	Main Arm	1
3)	Connecting Arm	1
4)	Rod and Shoe	1
5)	Flat Head Combo Screws	4
6)	Pan Head Combo Screw	2
7)	Socket Head Cap Screw	1
8)	Dust Cap	1

1.5 Installing arm STA 8616 ARJ (continued)

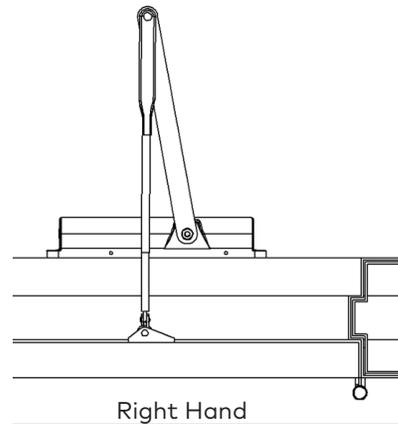
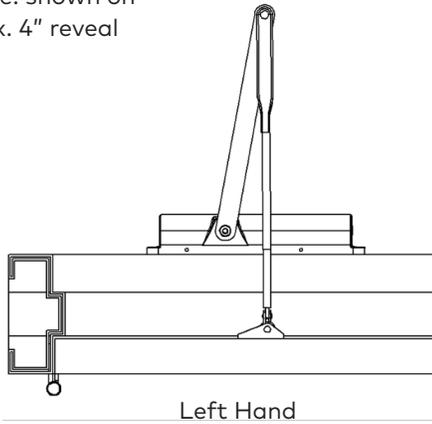
Fig.5

3B

Preload main arm (2) by rotating approximately 10 degrees and press rivet head into the retaining pocket on the connecting arm (3).



Note: shown on max. 4" reveal



4

Back Plate Mounting

See template for mounting information

1.6 Installing 8616 ARP - Arm Round Parallel/Mount Push Side of Door

Fig.6

1 Pry apart connecting arm (3) and tube from main arm (2).

2 Thread the connecting tube (3) and rod shoe (4) together. Length = 14" plus the reveal depth

3 Prepare door and frame using the template provide in the back of the instructions. Attach the closer (1) to the door using 4 combo screws (5). Attach arm bracket (9) to the frame with 4 combo screws (11).

3A Attach the rod and shoe (4) to the arm bracket (9) using 2 foot screws (10).

Combo Flat Head Screw x4 (5)
Pan Head Combo Screw x4 (11)

Foot scw x2 (10)

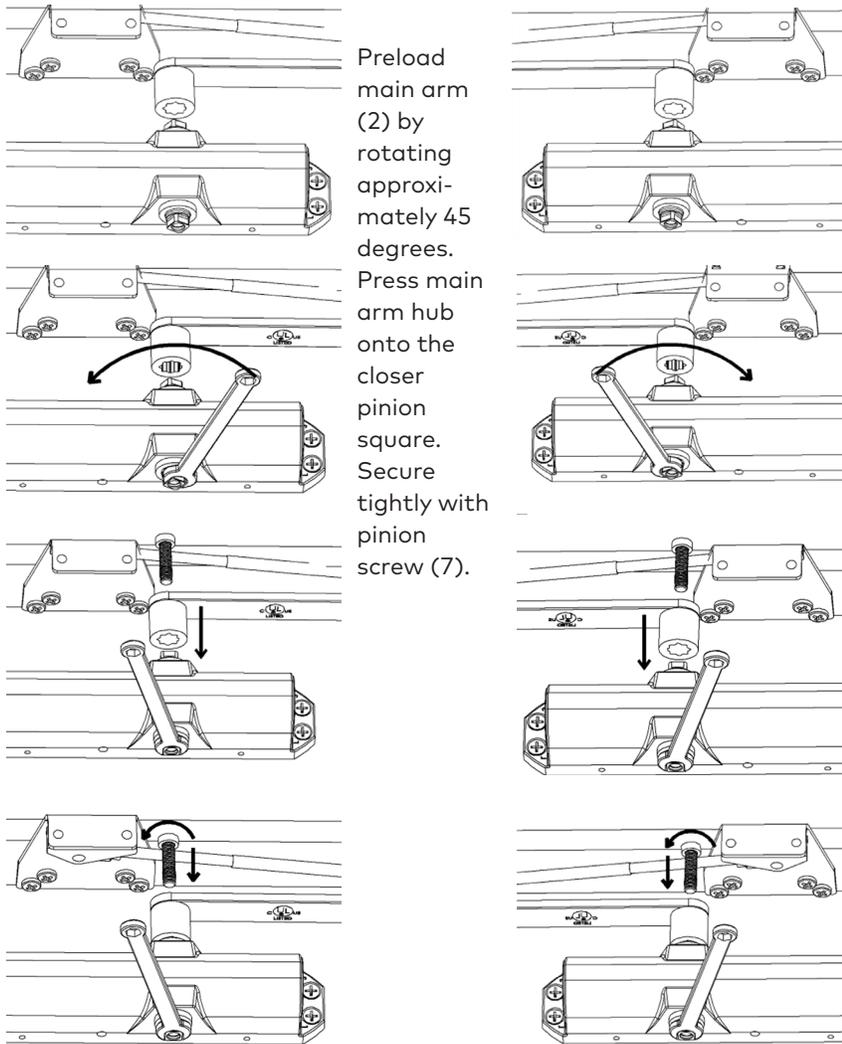
Left Hand Right Hand

Left Hand Right Hand

Parts list:		
No.	Description	Qty
1)	Closer	1
2)	Main Arm	1
3)	Connecting Arm	1
4)	Rod and Shoe	1
5)	Flat Head Combo Screws	4
6)	Pan Head Combo Screw	4
7)	Socket Head Cap Screw	1
8)	Dust Cap	1
9)	Parallel Arm Bracket	1
10)	Foot Machine Screws	2
11)	Bracket Screws	4

1.7 Installing 8616 ARP (continued)

Fig.7



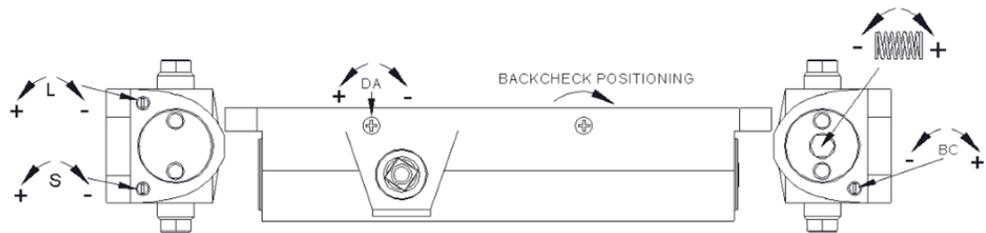
Preload main arm (2) by rotating approximately 45 degrees. Press main arm hub onto the closer pinion square. Secure tightly with pinion screw (7).

4 Back Plate Mounting

See template for mounting information.

5 Performance Adjustments

- Be sure closer has appropriate spring power prior to making any closer speed adjustments.
- Door should close in 3 to 6 seconds from 90 degrees.
- Do not back valves out beyond closer casting surface.
- Check closing sweep (S) and latch (L) speed; adjust as necessary.
- Backcheck position will advance approximately 15 degrees by placing backcheck "position" valve in the "on" position (fully clockwise).
- Check delay action (D) function if supplied.
- Bail bearing hinges or pivots should always be used.



REGULAR & TOP JAMB / AR & ARJ					
Door Width		Adjuster Full Turns	Spring Size	ULC LABELED UNITS ONLY	
Exterior	Interior			Max. Door Weight	
-	2'-6" (762)	-19	2		100
2'-6" (762)	3'-0" (914)	-11	3		125
3'-0" (914)	3'-6" (1067)	0	4		150
3'-6" (1067)	4'-0" (1219)	+5	5		200
4'-0" (1219)	-	+13	6		250
PARALLEL ARM					
-	2'-6" (762)	-11	3		100
2'-6" (762)	3'-0" (914)	0	4		125
3'-0" (914)	3'-6" (1067)	+5	5		150
3'-6" (1067)	4'-0" (1219)	+13	6		200

1.8 Cover options - COV, FCOV, FMC

Fig.8

