

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
Center Punch and Hammer
3/16" Slotted Screw Driver

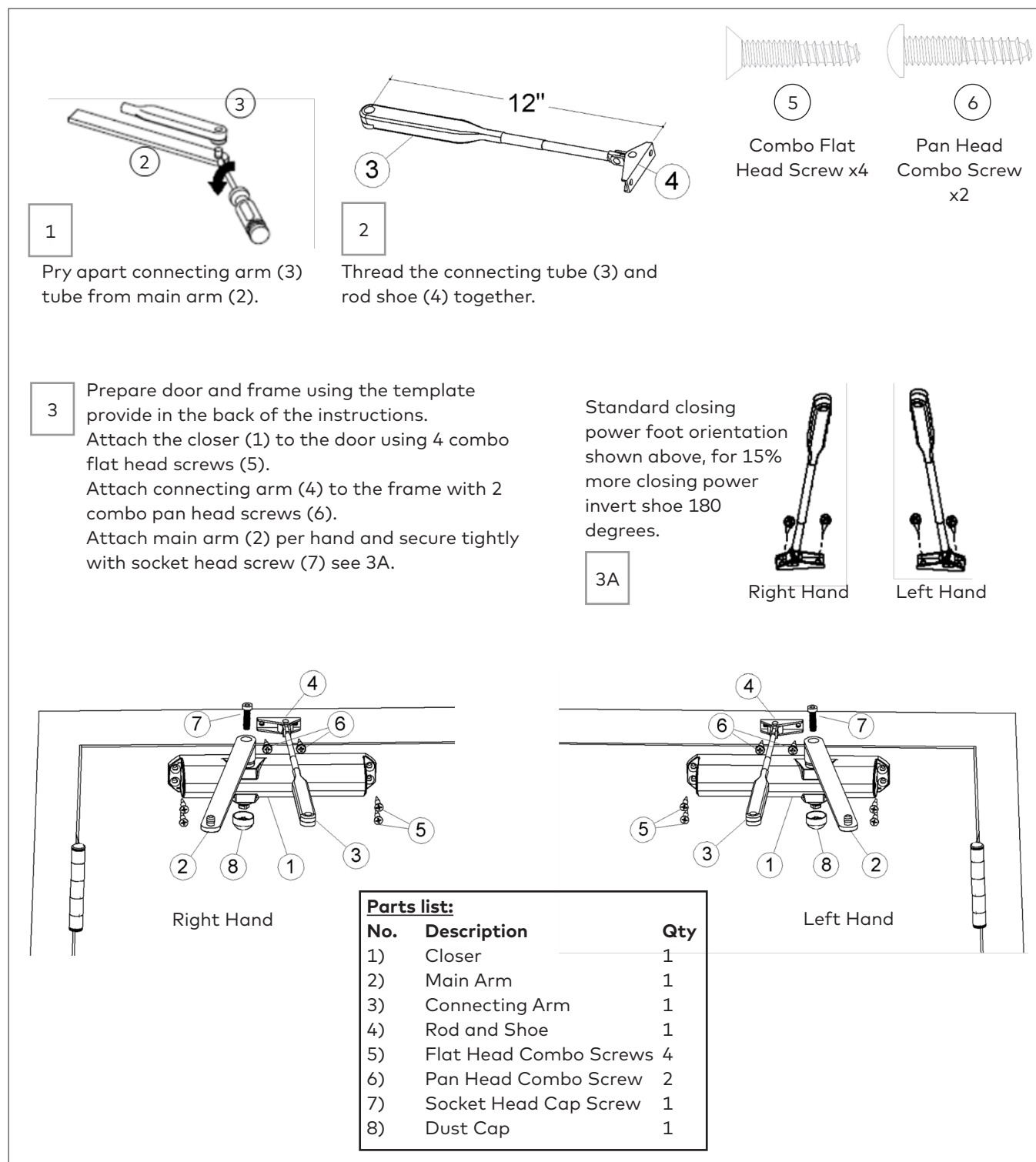
#3 Cross-Point Screw Driver
1/2" Box Wrench
10" Adjustable Wrench

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

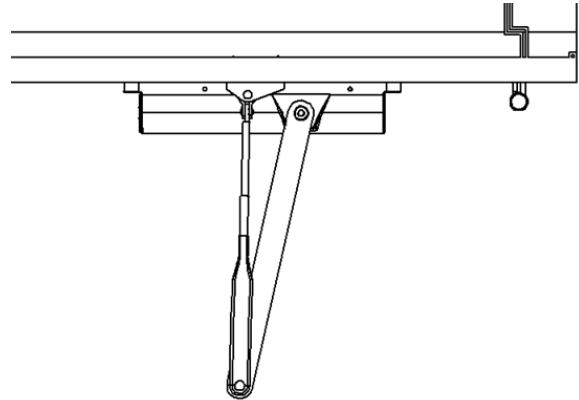
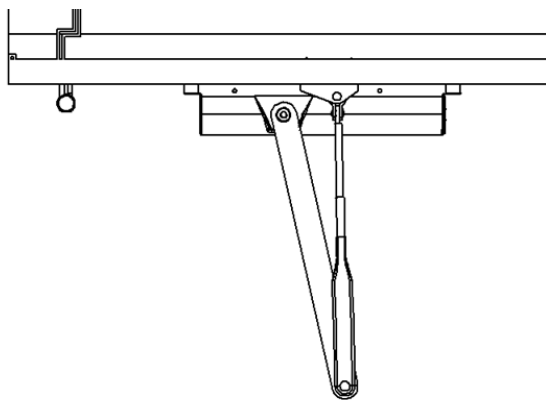
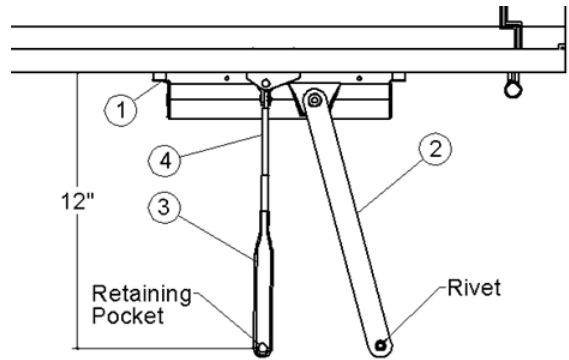
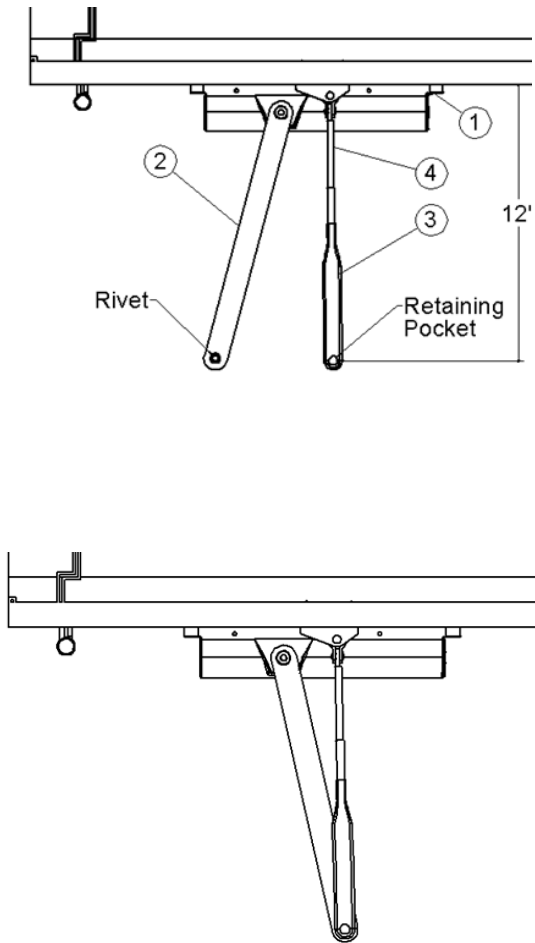


1.3 Installing arm STA 8616 AR (continued)

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

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.

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

3A

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

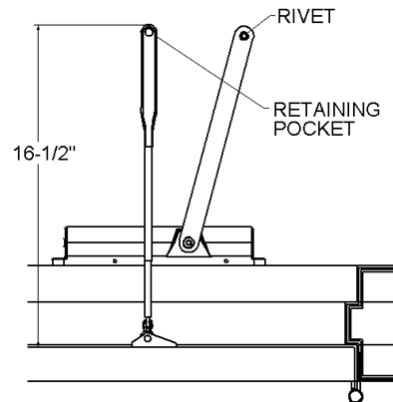
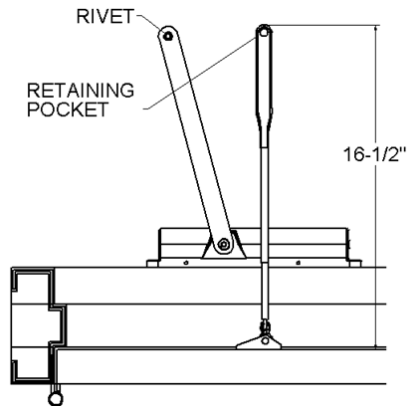
Left Hand Right Hand

1.5 Installing arm STA 8616 ARJ (continued)

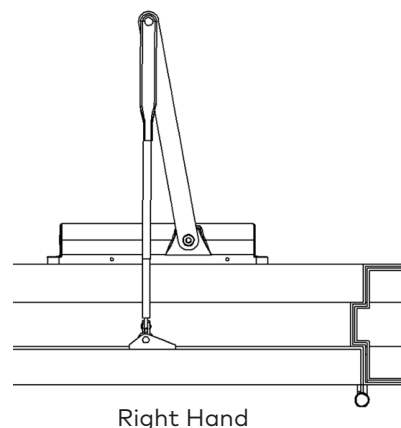
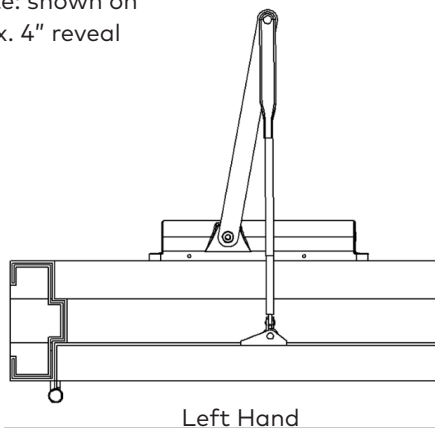
Fig.5

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) 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 screw x2 (10)

Left Hand

Right Hand

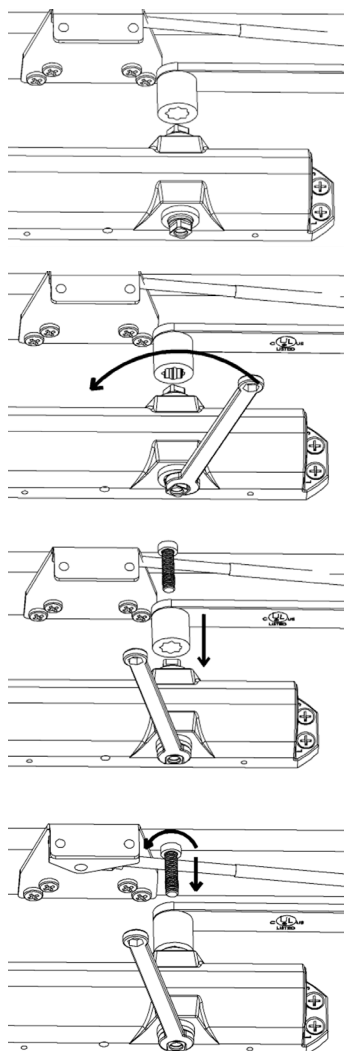
Left Hand

Right Hand

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

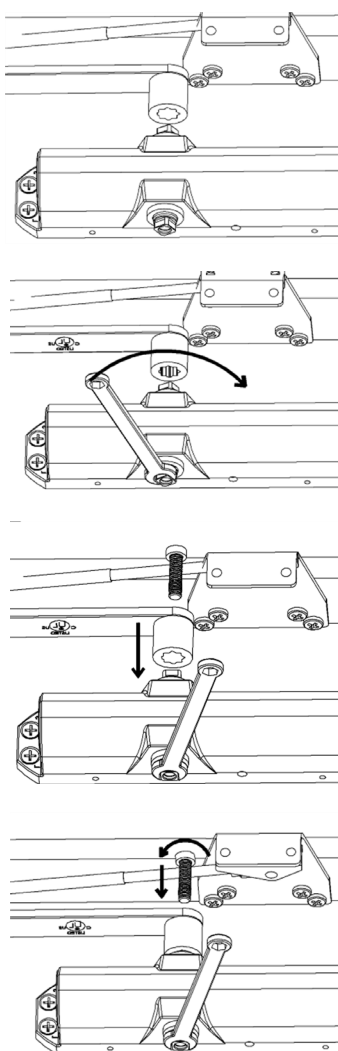
1.7 Installing 8616 ARP (continued)

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).



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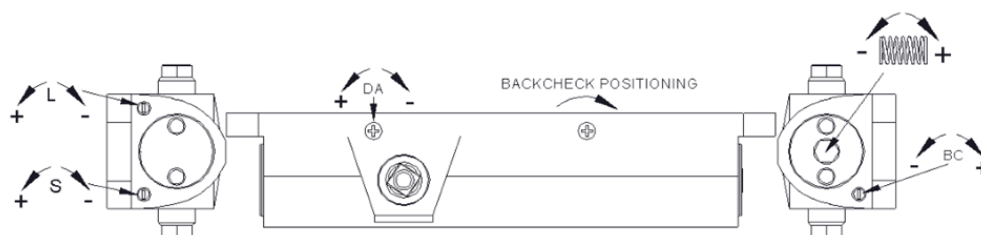
Back Plate Mounting

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

