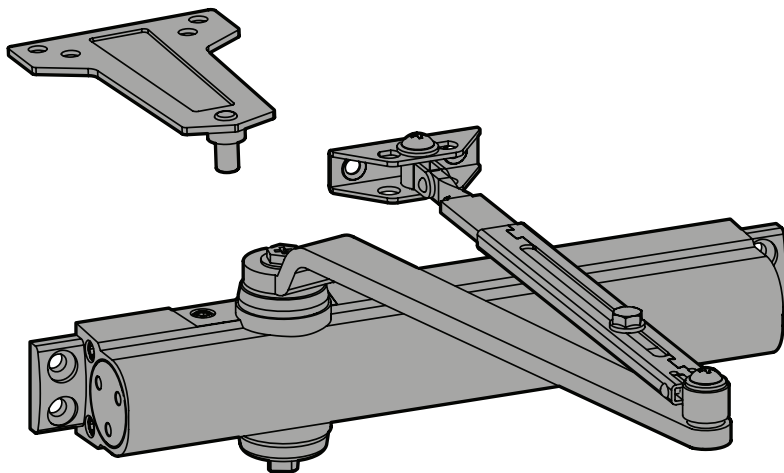
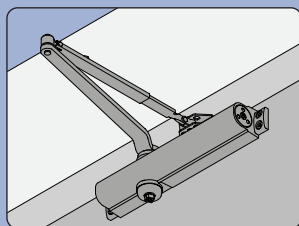




Choose the **Mounting Type** that's best for your door

MOUNTING TYPES

STANDARD (Pull Side)

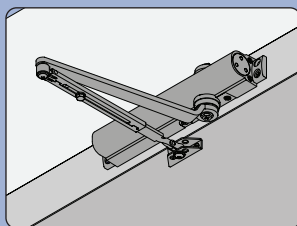


Pages 3-10 | 10 Steps

Use when the top rail is standard height.

Closer body mounted onto the door on the PULL side.

TOP JAMB (Push Side)

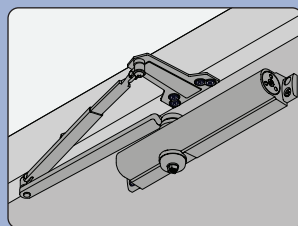


Pages 11-18 | 10 Steps

Use when the top rail is too narrow for a standard mount.

Closer body mounted onto the frame on the PUSH side.

PARALLEL ARM (Push Side)



Pages 19-26 | 11 Steps

Best when aesthetics matter

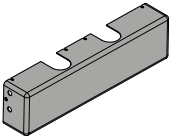
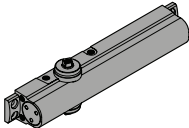
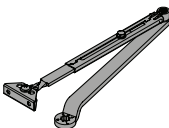
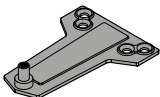
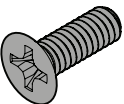
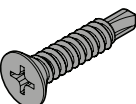
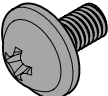
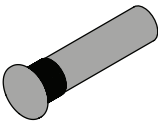
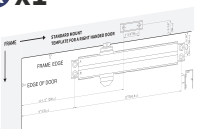
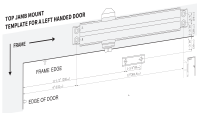
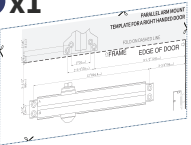
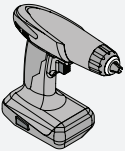
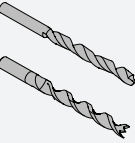
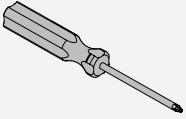
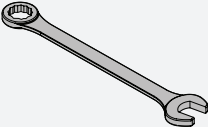
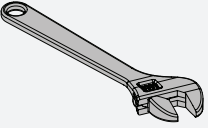
Closer body mounted on the PUSH side with a bracket added to the frame for the arm.



Note sure which Mounting Type is right for you?

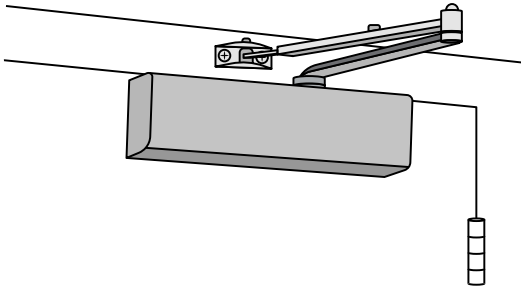
Take a short quiz. EmbassyHardware.com/installation

PART LIST and REQUIRED TOOLS

A x1  Cover	B x1  Closer Body	C x1  Closer Arm	D x1 (Parallel Arm Only)  Parallel Arm Bracket
E x1  Cover Insert	F x1  Arm to Closer Screw	G x2  Small Screw for Cover	K x4  1/4-20 x 5/8 inch Machine Screw
P x8  1-1/8 inch #14 Wood Screw	Q x4  1/4-20 x 1 inch Machine Screw	R x8  1-1/2 inch Self Tapping Screw	S x1  Elbow Screw and Washer
T x4  Barrel Bolt	X x1  Standard Installation Drilling Template	Y x1  Top Jamb Installation Drilling Template	Z x1  Parallel Arm Installation Drilling Template
 Drill	 3/16" Drill bit (wood doors) or #7 Drill bit (metal doors)	 Phillips Screwdriver	 1/8" Wrench
(Parallel Arm Only)  Adjustable wrench			



816 | STANDARD Installation



Closer body mounted onto the door on the PULL side.

Use when the top rail of door is standard height.

More Resources

- Download a PDF of this guide
- 3D walk-through videos
- Printable drilling templates

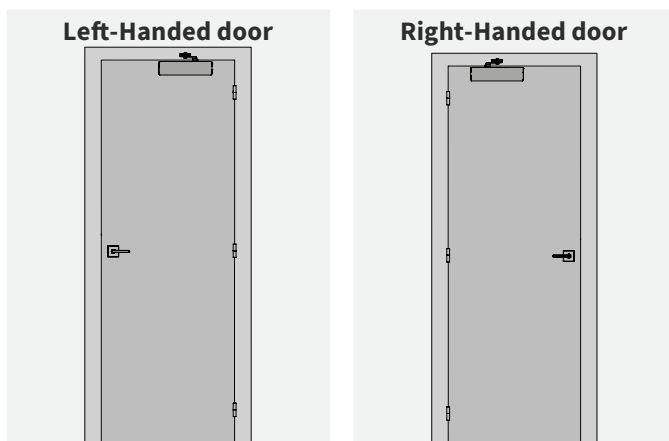
Your succesful installation is our pride and joy. *Let's get it done.*



View the 816 resources:
EmbassyHardware.com/installation

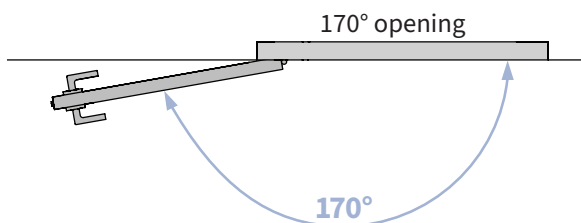
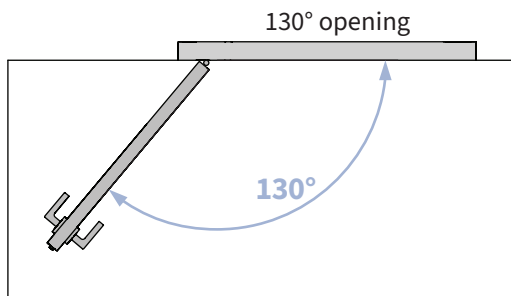
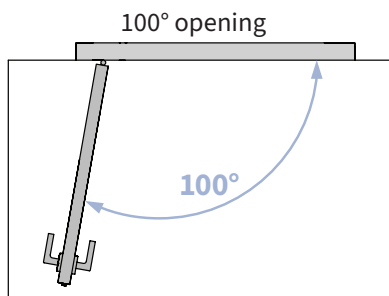
STEP 1. Determine Door Handing

Before getting started, you need to determine whether your door is Left- or Right-Handed. For **Standard** installation: stand on the PULL side of the door and use the illustration below to identify your door's handing.



STEP 2. Choose Maximum Opening Angle

Choose the **maximum degrees of opening** you want your door to open.



⚠ CAUTION

Set the maximum opening to an angle that prevents the door from striking nearby walls or obstacles.

STEP 3. Mark the Pilot Holes

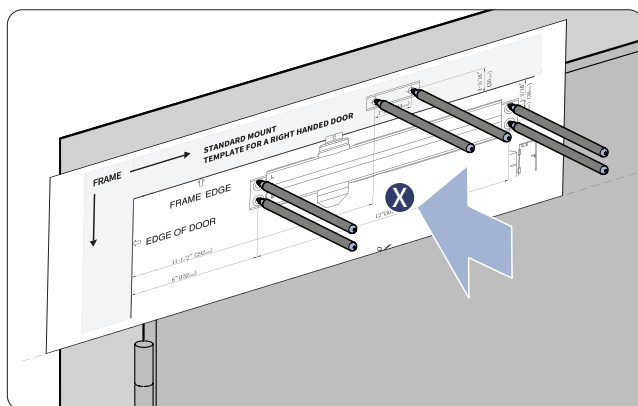
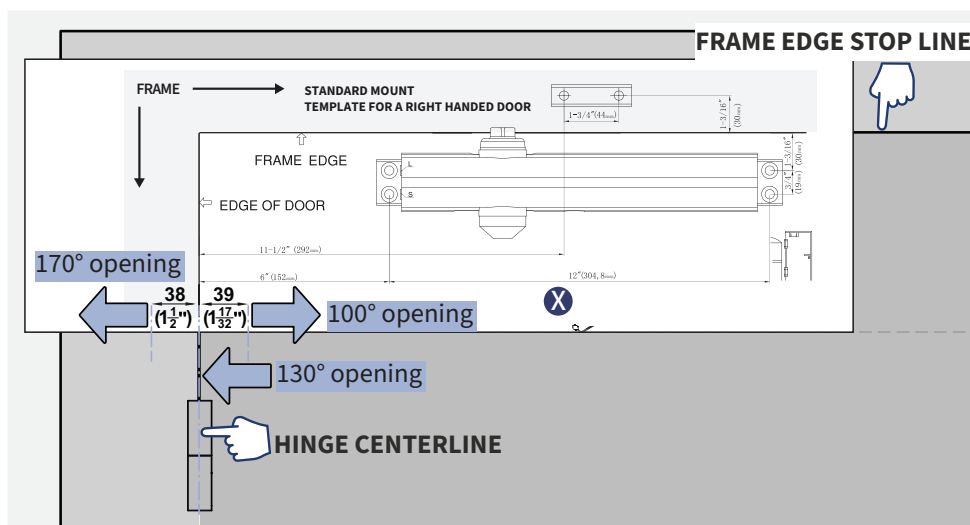
Use the paper template to mark pilot holes.

(1) The paper template is double sided, one side for Left-Handed doors, one side for Right-Handed doors. Use the side of the **Standard Installation** template that matches **your door's handing**.

(2) **Position your template** directly on the door and frame so "EDGE OF DOOR" aligns with the hinge centerline, and "FRAME EDGE" sits at the bottom edge of the frame. This is the default position for maximum opening of 130°.

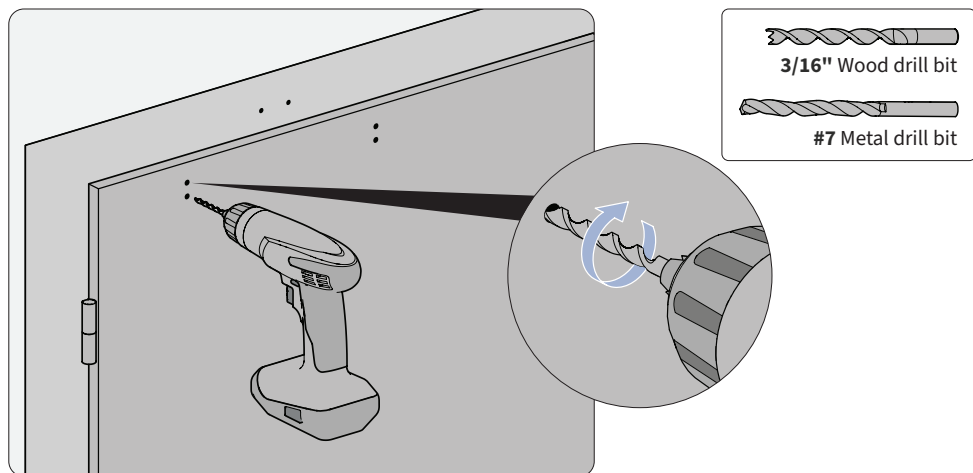
(3) **For maximum opening of 170° or 100°**, slide the template left or right using the millimeters or inches seen in the template.

Once positioned, mark the **four pilot holes** for the Closer Body and the **two pilot holes** for the Forearm.



STEP 4. Drill Pilot Holes

Drill 6 pilot holes using a **3/16"** drill bit for wood doors and frames, or a **#7 drill bit** for metal doors and frames.

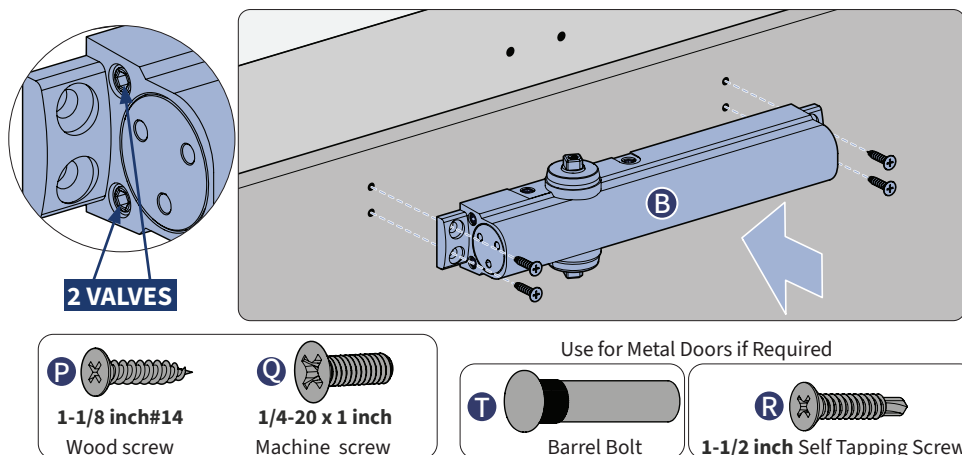


STEP 5. Mount Closer Body to Door

Attach the Closer Body so that the side with the two valves faces the door's hinges:

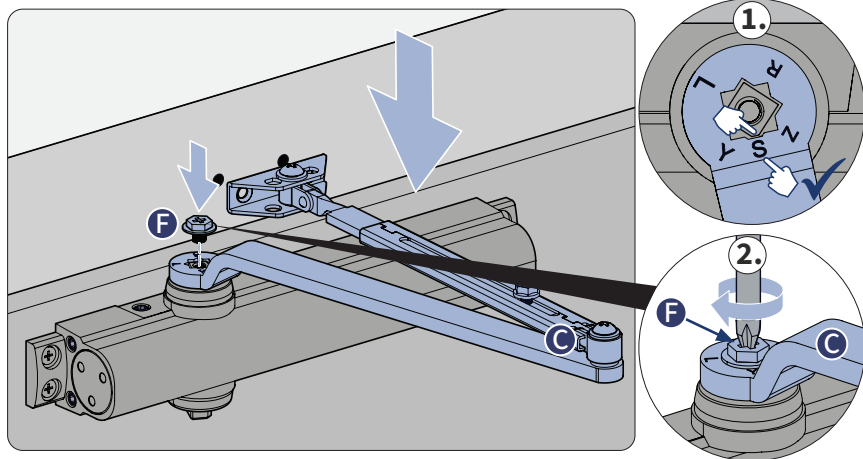
- For wood doors, use the four **1-1/8 inch #14 Wood Screws**.
- For metal doors, use the four **1/4-20 x 1 inch Machine Screws**. If needed, **Self-Tapping Screws** are also included.

Barrel bolts or thru-bolts may be required for some installations.



STEP 6. Attach Main Arm to Closer Body

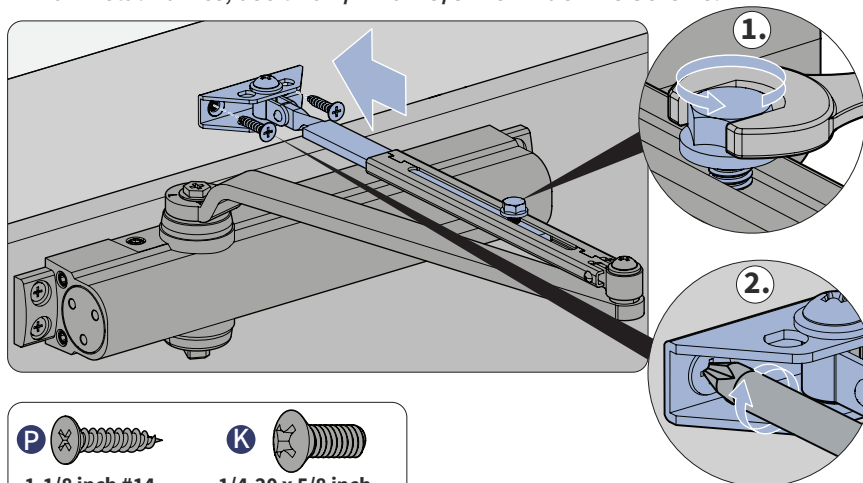
Place the Main Arm onto the top spindle so the flat part of the spindle faces the “S” mark. Then tighten the arm-to-closer screw **F**.



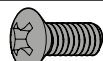
STEP 7. Mount Shoe to Frame

Loosen the forearm screw to adjust the rod length. Secure the Shoe to the frame with two screws:

- For wood frames, use two **1-1/8 inch #14 Wood Screws**.
- For metal frames, use two **1/4-20 x 5/8 inch Machine Screws**.

**P**

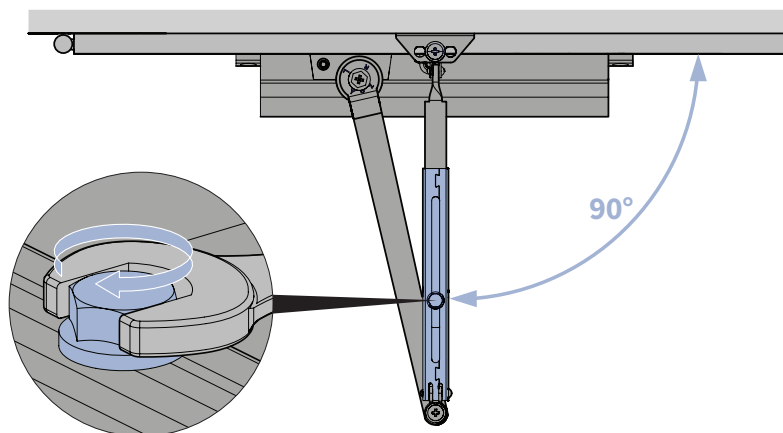
1-1/8 inch #14
Wood screw

K

1/4-20 x 5/8 inch
Machine screw

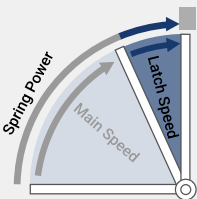
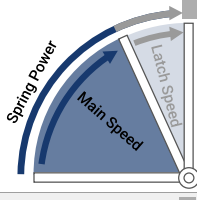
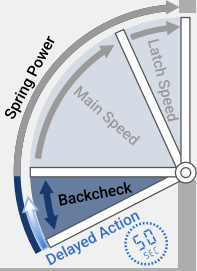
STEP 8. Connect Forearm to Main Arm

Close the door. Ensure the forearm is at a 90° angle to the door. Tighten the forearm screw.



STEP 9. Adjustments

⚠️ Test the door several times before adjusting any valves

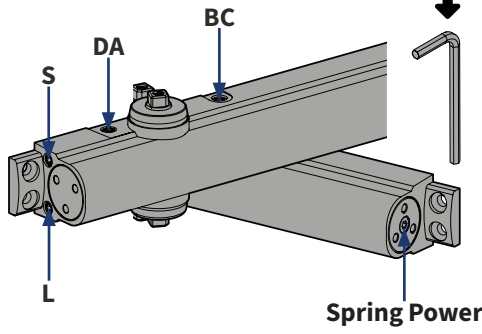
VALVE NAME	VALVE USAGE	STAGE OF SWING
Spring Power Controls the closing force	Increase for wind, stack pressure, or if closing against stiff weather-stripping; decrease if too hard to open.	Affects all stages of the door's swing
Latch Speed Controls the final 15° when closing to ensure proper latching	If the door won't click shut, increase Latch Speed first. Still won't latch? Increase the Spring Power a little. Never fully release the valve (fluid may leak and voids warranty).	
Main Speed Controls the closing sweep from fully open to the last 15°	Slow for ADA requirements, or high traffic; speed up if the door drags.  TIP: Main Speed is about <i>timing</i> , Spring Power is about <i>lbs. of force</i> .	
Delayed Action Pauses before closing	Use for wheelchair access, deliveries, or slow-moving traffic. Adjustable from 0–50 sec.	
Backcheck Cushions forceful opens	Strengthen it for wind exposure or forceful openings; weaken if resistance kicks in too early.	

⚠️ Never **fully** release / tighten BC valve. Risks injury or damage.

⚠️ **CAUTION**

- Do not turn valves more than 180° per test. A little turn goes a long way.
- Never remove valves (hydraulic fluid will leak and voids warranty).

Use the 1/8 in. Hex Wrench to turn valves.



Valve	ID	CW ⤴️	CCW ⤵️
Spring Power *	SP	More force	Less force
Main Speed	S	Slower	Faster
Latch Speed	L	Slower	Faster
Backcheck	BC	Stronger	Weaker
Delayed Action	DA	Longer	Shorter

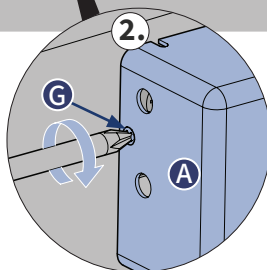
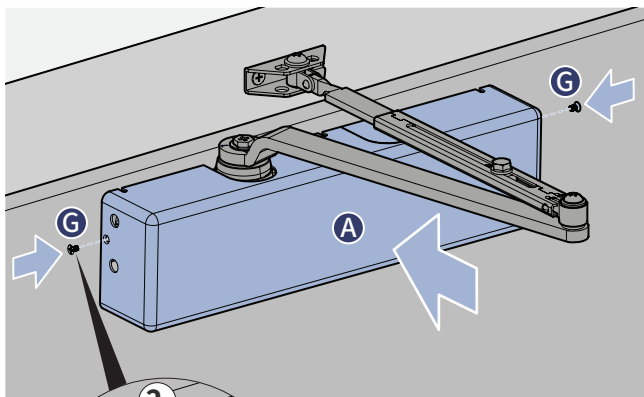
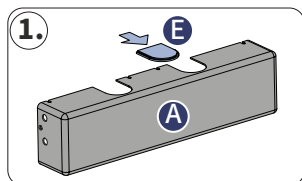
* **Spring Power:** comes factory set to Size 3

Power Size	1	2	3	4	5	6
lbs. of Force to open door	2 lbs.	3 lbs.	5 lbs.	8 lbs.	11 lbs.	14 lbs.

General Suggestions ➔	Standard INTERIOR doors, 5 lbs. minimum recommended.	Standard EXTERIOR doors, 8.5 lbs. minimum recommended.	 Seek advice on setting for Fire Codes and ADA regulations.

STEP 10. Install Cover

Slide the cover insert into the notch that will remain empty once placed over the closer body. Then secure the cover over the body with the two small screws.



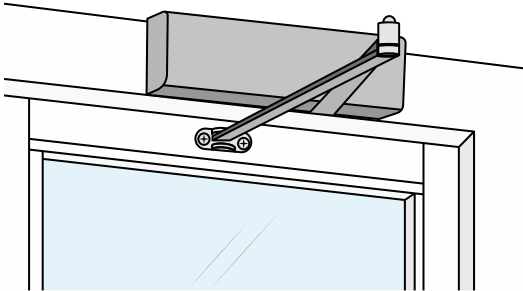
CONGRATULATIONS!

You have successfully installed your 816 door closer

Thank you for choosing **EMBASSY®**
by Homebuilders Hardware



816 | TOP JAMB Installation



Closer body mounted onto the frame on the PUSH side.

Use when top rail of door is too narrow for a standard mount.

More Resources

- Download a PDF of this guide
- 3D walk-through videos
- Printable drilling templates

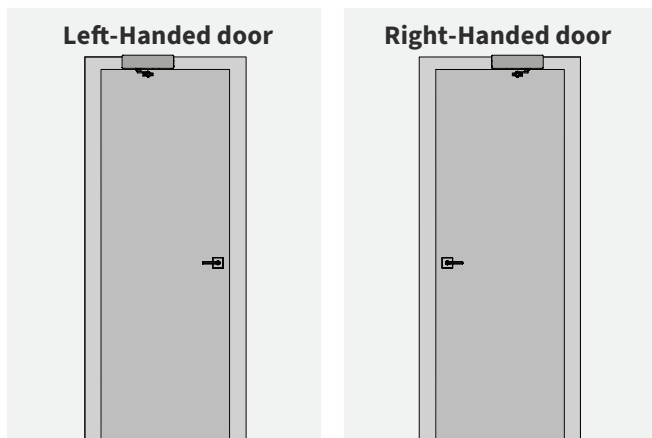
Your succesful installation is our pride and joy. *Let's get it done.*



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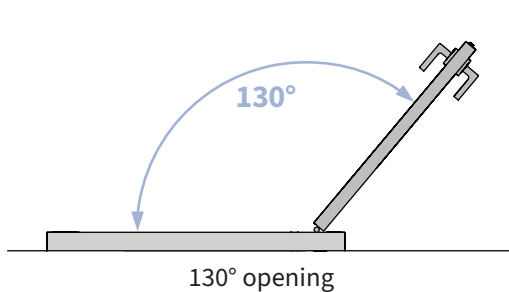
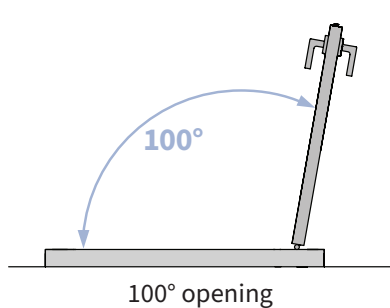
STEP 1. Determine Door Handing

Before getting started, you need to determine whether your door is Left- or Right-Handed. For **Top Jamb** Installation: stand on the PUSH side of the door and use the illustration below to identify your door's handing.



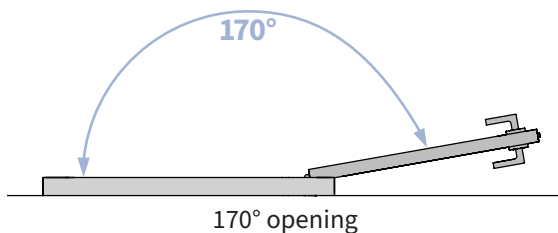
STEP 2. Choose Maximum Opening Angle

Choose the **maximum degrees of opening** you want your door to open.



⚠ CAUTION

Set the maximum opening to an angle that prevents the door from striking nearby walls or obstacles.



STEP 3. Mark the Pilot Holes

NOTE: For **Top Jamb** installation, mount the closer on the PUSH side of the door where the hinges are typically not visible.

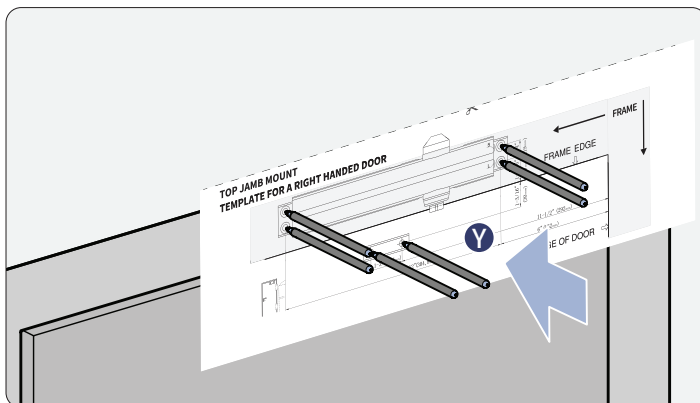
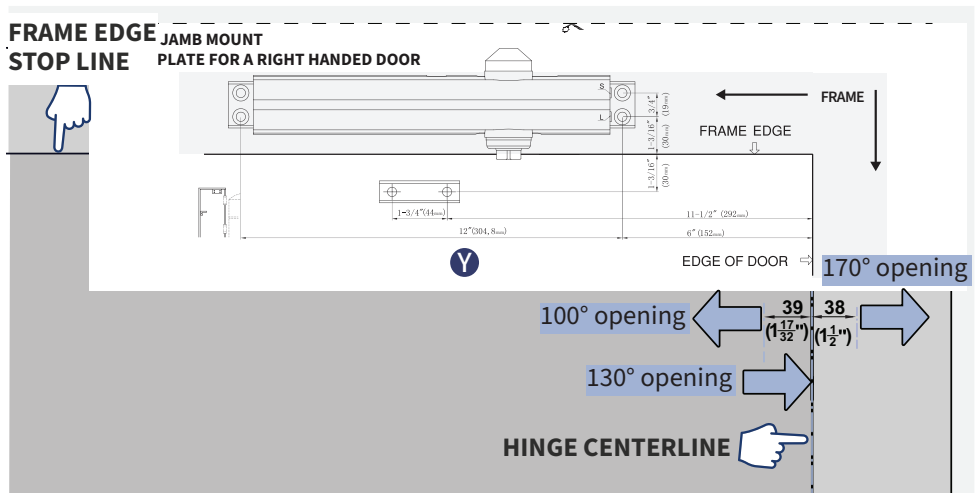
Use the paper template to mark pilot holes.

(1) The paper template is double sided, one side for Left-Handed doors, one side for Right-Handed doors. Use the side of the **Top Jamb Installation** template that matches **your door's handing**.

(2) **Position your template** directly on the door and frame so "EDGE OF DOOR" aligns with the edge of your door, and "FRAME EDGE" sits at the bottom edge of the frame. This is the default position for maximum opening of 130°.

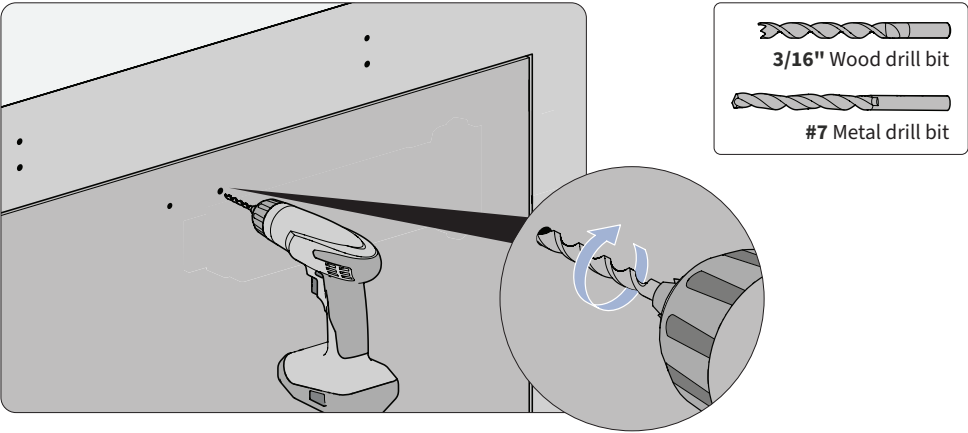
(3) **For a maximum opening of 170° or 100°**, slide the template right or left using the millimeters or inches seen in the template.

Once positioned, mark the **four pilot holes** for the Closer Body and the **two pilot holes** for the Forearm.



STEP 4. Drill Pilot Holes

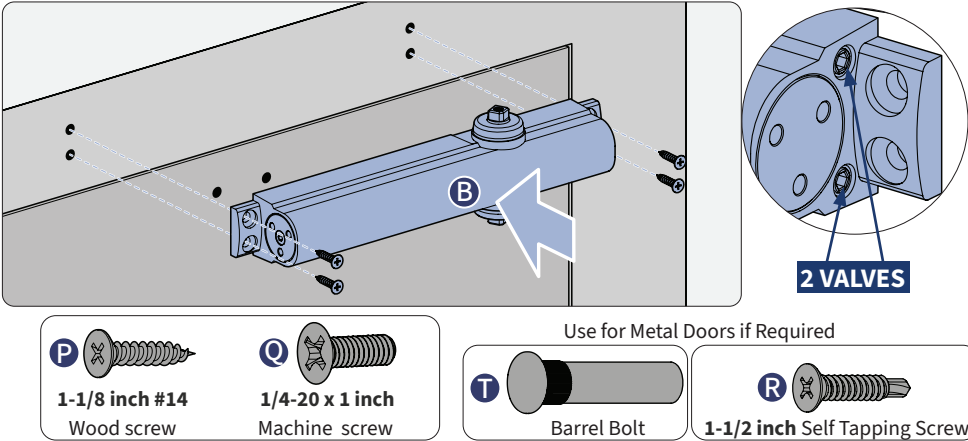
Drill 6 pilot holes using a **3/16" drill bit** for wood doors and frames, or a **#7 drill bit** for metal doors and frames.



STEP 5. Mount Closer Body to Door Frame

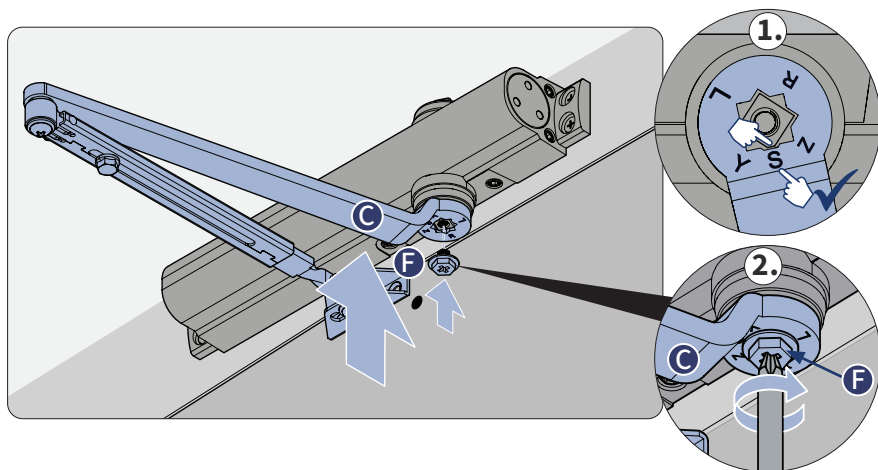
- Attach the Closer Body to the frame so that the side with the two valves faces away from the door's hinges.
- For wood frames, use the four **1-1/8 inch #14 Wood Screws**.
- For metal frames, use the four **1/4-20 x 1 inch Machine Screws**. If needed, **Self-Tapping Screws** are also included.

Barrel bolts or thru-bolts may be required for some installations.



STEP 6. Attach Main Arm to Closer Body

Place the Main Arm onto the bottom spindle so the flat part of the spindle faces the “S” mark. Then tighten the arm-to-closer screw **F**.

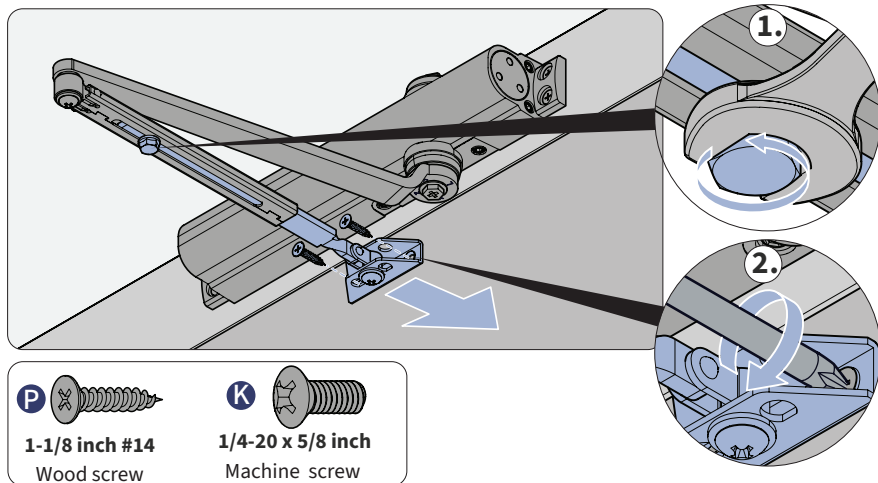


STEP 7. Mount Shoe to Door

Loosen the forearm screw to adjust the rod length. Secure the Shoe to the door with two screws:

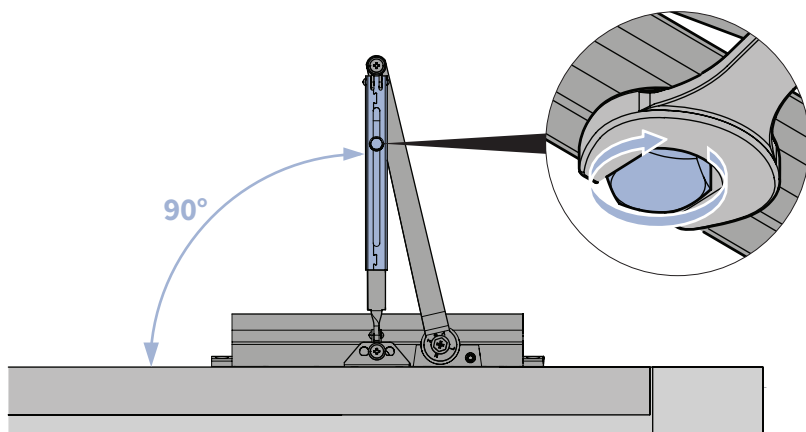
- For wood doors, use two **1-1/8 inch #14 Wood Screws**.
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Barrel bolts or thru-bolts may be required for some installations.



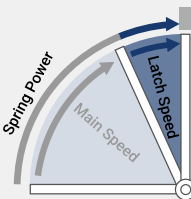
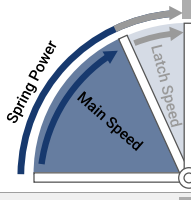
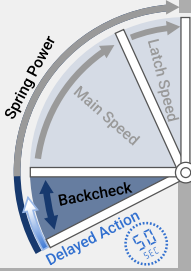
STEP 8. Connect Forearm to Main Arm

Close the door. Ensure the forearm is at a 90° angle to the door. Then, tighten the forearm screw.



STEP 9. Adjustments

⚠ Test the door several times before adjusting any valves

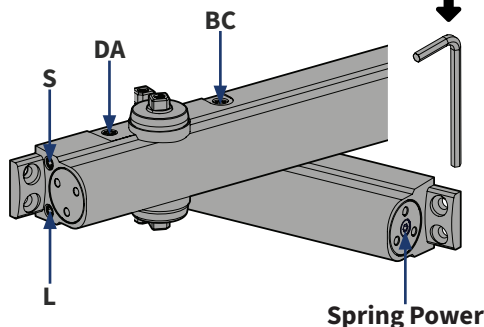
VALVE NAME	VALVE USAGE	STAGE OF SWING
Spring Power Controls the closing force	Increase for wind, stack pressure, or if closing against stiff weather-stripping; decrease if too hard to open.	Affects all stages of the door's swing
Latch Speed Controls the final 15° when closing to ensure proper latching	If the door won't click shut, increase Latch Speed first. Still won't latch? Increase the Spring Power a little. Never fully release the valve (fluid may leak and voids warranty).	
Main Speed Controls the closing sweep from fully open to the last 15°	Slow for ADA requirements, or high traffic; speed up if the door drags. 💡 TIP: Main Speed is about <i>timing</i> , Spring Power is about <i>lbs. of force</i> .	
Delayed Action Pauses before closing	Use for wheelchair access, deliveries, or slow-moving traffic. Adjustable from 0–50 sec.	
Backcheck Cushions forceful opens	Strengthen it for wind exposure or forceful openings; weaken if resistance kicks in too early.	

⚠ Never fully release / tighten BC valve. Risks injury or damage.

⚠ CAUTION

- Do not turn valves more than 180° per test. A little turn goes a long way.
- Never remove valves (hydraulic fluid will leak and voids warranty).

Use the 1/8 in. Hex Wrench to turn valves.



Valve	ID	CW ⤴	CCW ⤵
Spring Power *	SP	More force	Less force
Main Speed	S	Slower	Faster
Latch Speed	L	Slower	Faster
Backcheck	BC	Stronger	Weaker
Delayed Action	DA	Longer	Shorter

* Spring Power: comes factory set to Size 3

Power Size	1	2	3	4	5	6
lbs. of Force to open door	2 lbs.	3 lbs.	5 lbs.	8 lbs.	11 lbs.	14 lbs.

General →
Suggestions

Standard INTERIOR doors,
5 lbs. minimum recommended.

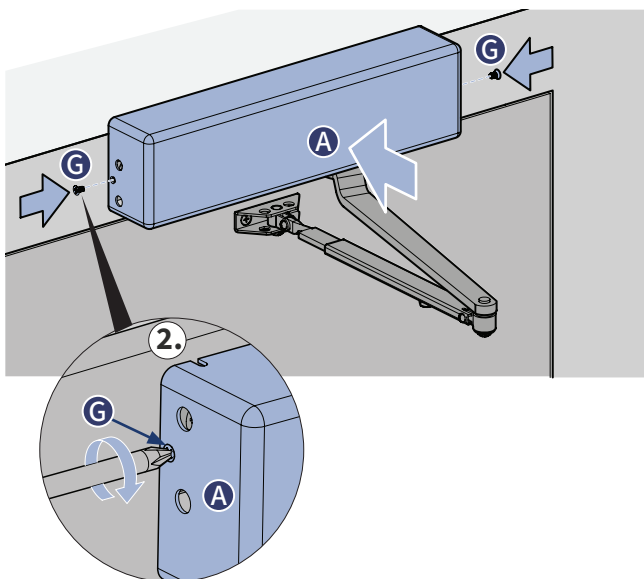
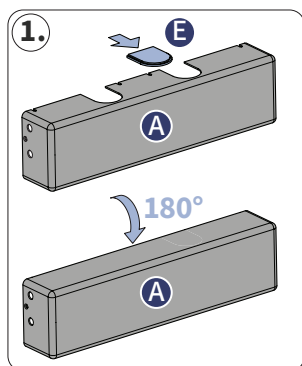
Standard EXTERIOR doors,
8.5 lbs. minimum recommended.



Seek advice on setting for Fire Codes and ADA regulations.

STEP 10. Install Cover

Slide the cover insert into the notch that will remain empty once placed over the closer body. For **Top Jamb** installation, the notches should be facing down. Then secure the cover over the body with the two small screws.



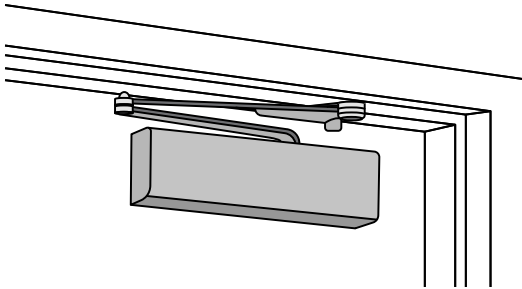
CONGRATULATIONS!

You have successfully installed your 816 door closer

Thank you for choosing **EMBASSY®**
by Homebuilders Hardware



816 | PARALLEL ARM Installation



Closer body mounted onto the door on the PUSH side.

Use when aesthetics matter.

More Resources

- Download a PDF of this guide
- 3D walk-through videos
- Printable drilling templates

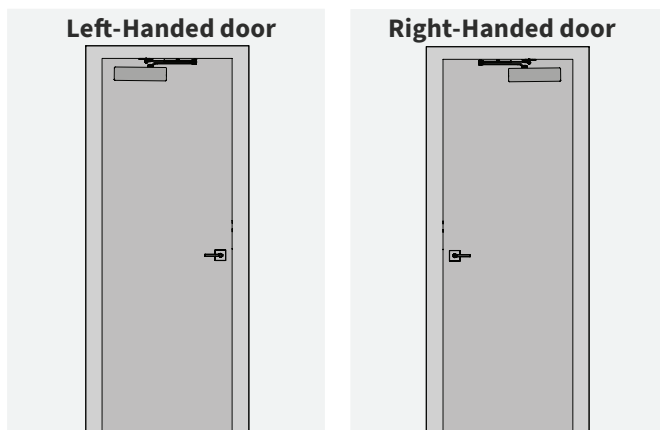
Your succesful installation is our pride and joy. *Let's get it done.*



View the 816 resources:
EmbassyHardware.com/installation

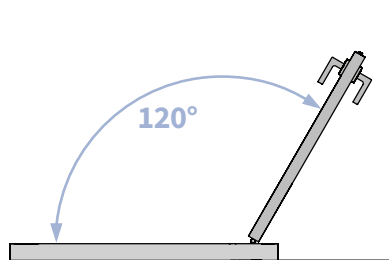
STEP 1. Determine Door Handing

Before getting started, you need to determine whether your door is Left- or Right-Handed. For **Parallel Arm** Installation, stand on the PUSH side of the door, then take note of which handing your door has, based on the illustration below.

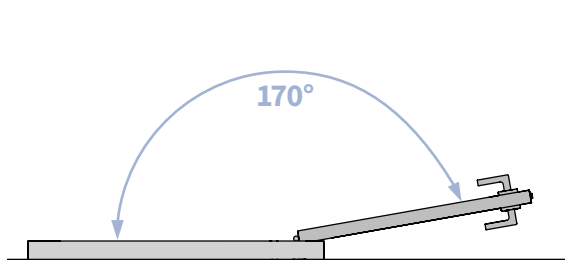


STEP 2. Choose Maximum Opening Angle

Choose the **maximum degrees of opening** you want your door to open.



120° opening



170° opening

⚠ CAUTION

Set the maximum opening to an angle that prevents the door from striking nearby walls or obstacles.

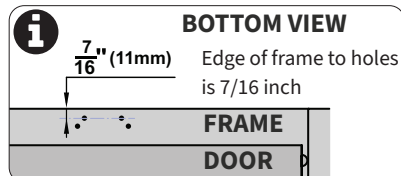
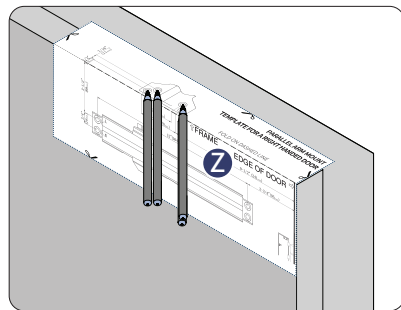
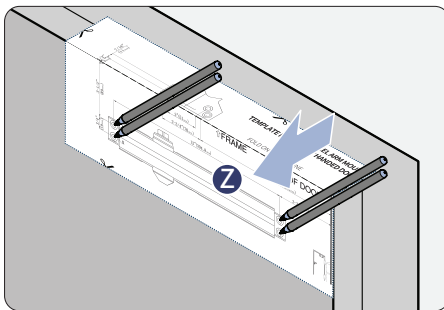
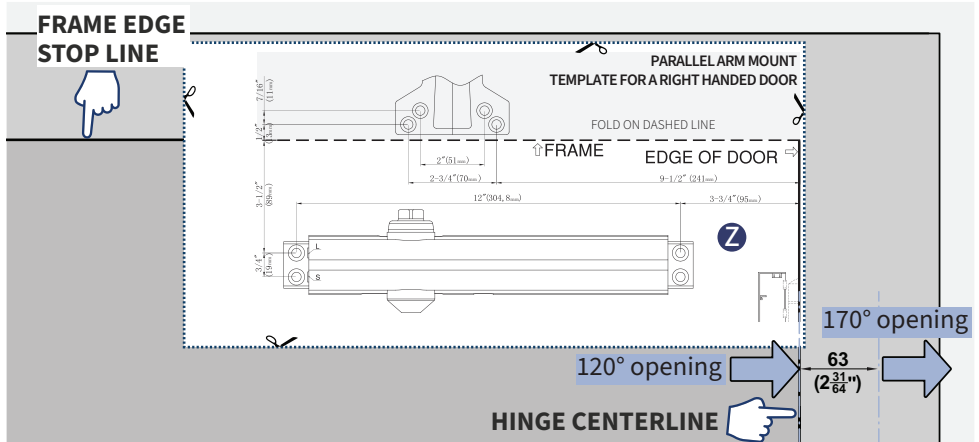
STEP 3. Mark the Pilot Holes

NOTE: For **Parallel Arm** installation, mount the closer on the **PUSH** side of the door where the hinges are typically not visible.

Use the paper template to mark pilot holes.

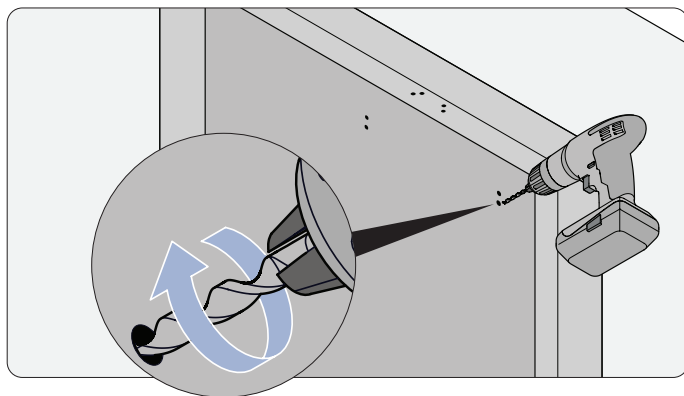
- (1) The paper template is double sided, one side for Left-Handed doors, one side for Right-Handed doors. Use the side of the **Parallel Arm Installation** template that matches **your door's handing**.
- (2) **Position your template** directly on the door and frame so "EDGE OF DOOR" aligns with the edge of your door and "FRAME" points up at the bottom edge of the frame. This is the default position for maximum opening of 120°.
- (3) **For a maximum opening of 170°**, slide the template horizontally according to the millimeters or inches seen in the template.

Once positioned, mark the **four pilot holes** for the Closer Body and the **four pilot holes** for the Parallel Arm Bracket.



STEP 4. Drill Pilot Holes

Drill 8 pilot holes using a **3/16"** drill bit for wood doors and frames, or a **#7 drill bit** for metal doors and frames.




3/16" Wood drill bit

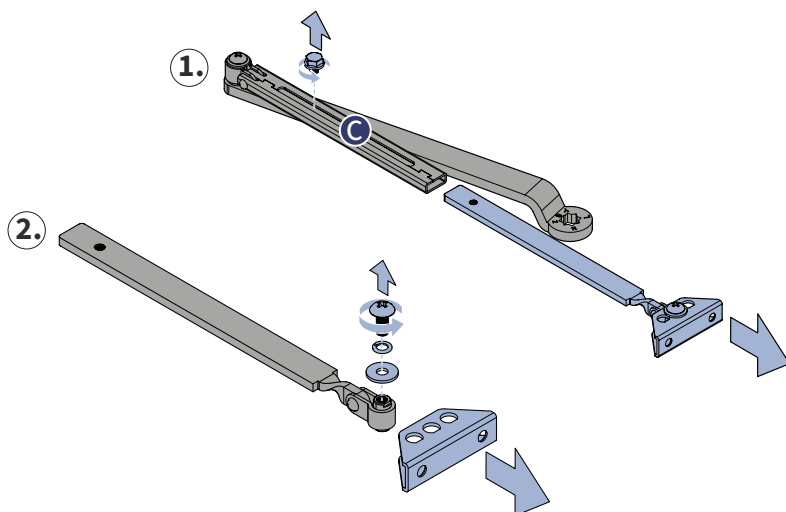

#7 Metal drill bit

STEP 5. Disassemble Arm

Remove the forearm screw (save for step #7 - do not discard!).

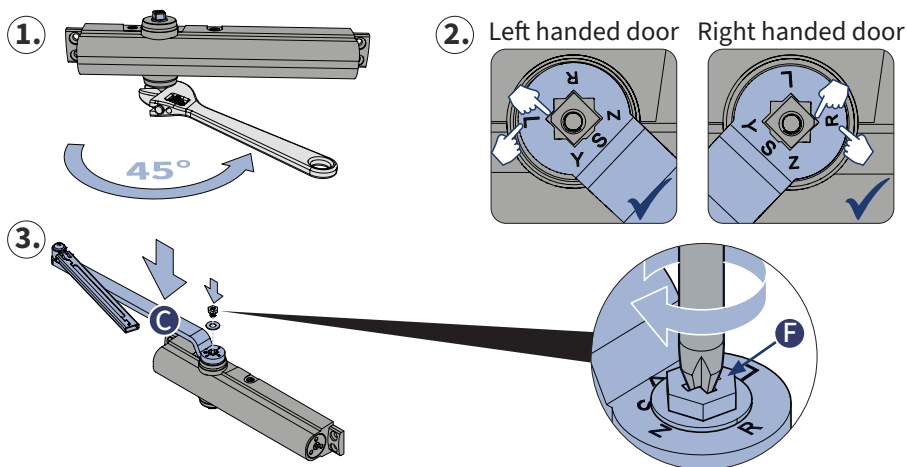
Slide out the rod and shoe.

Remove the shoe screw and washer from the rod (save for step #7 - do not discard!).



STEP 6. Attach Main Arm to Closer Body

1. Pre-turn the bottom shaft 45° toward the hinges. Keep it in this position until after step 9.
2. Install the Main Arm onto the top spindle so the flat part of the spindle faces the correct mark for your door's handing ("R" for Right Hand, "L" for Left Hand. Refer to step #1). Tighten the arm-to-closer screw **F**.

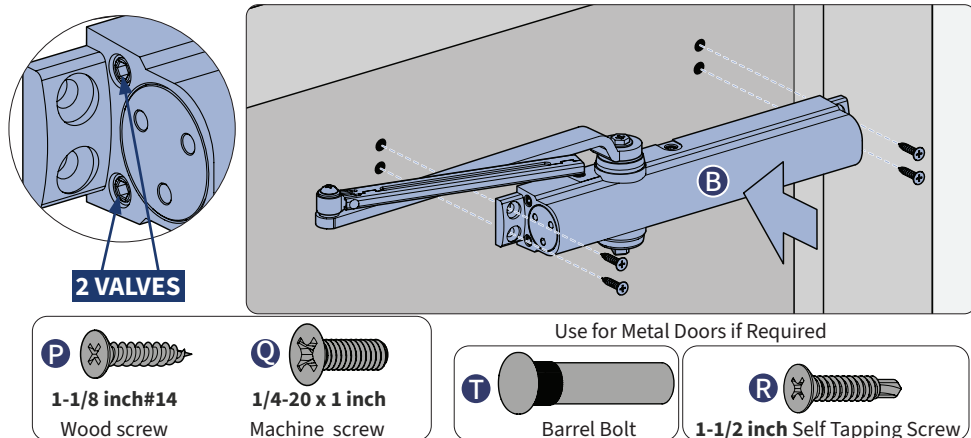


STEP 7. Mount Closer Body to Door

Attach the Closer Body to the frame so that the side with the two valves faces away from the door's hinges:

- For wood doors, use the four **1-1/8 inch #14 Wood Screws**.
- For metal doors, use the four **1/4-20 x 1 inch Machine Screws**. If needed, **Self-Tapping Screws** are also included.

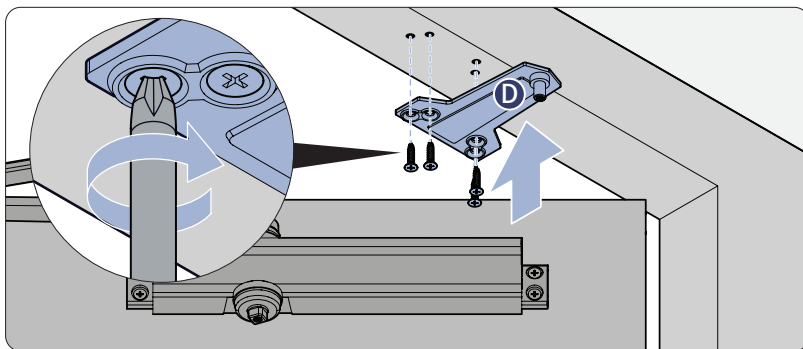
Barrel bolts or thru-bolts may be required for some installations.



STEP 8. Mount Parallel Arm Bracket to Frame

Secure the Parallel Arm Bracket to the frame with four screws:

- For wood frames, use four **1-1/8 inch #14 Wood Screws**.
- For metal frames, use four **1/4-20 x 5/8 inch Machine Screws**.



P #14 Wood screw



K 1/4-20 x 5/8 inch
Machine screw

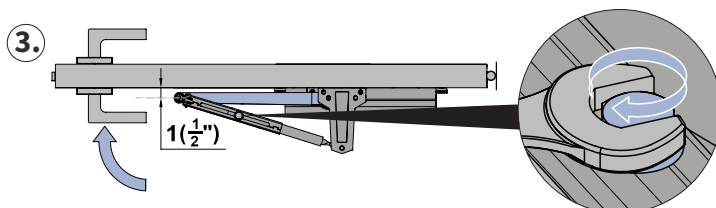
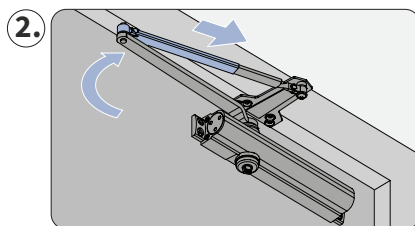
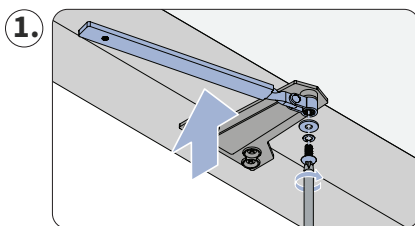
Use for Metal Doors if Required



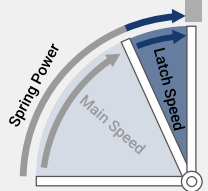
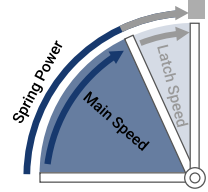
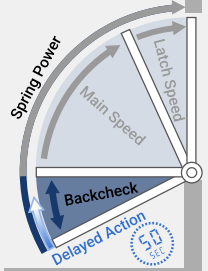
R 1-1/2 inch Self Tapping Screw

STEP 9. Connect Forearm to Main Arm & Bracket

1. Attach the rod to the bracket using the fastener parts you set aside earlier in step 5: (i) the washer and (ii) the shoe screw.
2. Open the door slightly so you can slide the forearm into the rod. Close the door.
3. Ensure the main arm is parallel to door and the elbow is 1-1/2" from door. Insert and tighten the forearm screw to complete this step.



STEP 10. Adjustments**⚠ Test the door several times before adjusting any valves**

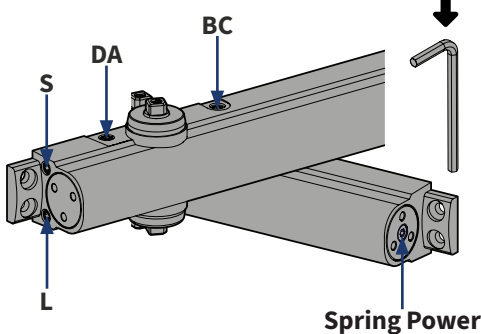
VALVE NAME	VALVE USAGE	STAGE OF SWING
Spring Power Controls the closing force	Increase for wind, stack pressure, or if closing against stiff weather-stripping; decrease if too hard to open.	Affects all stages of the door's swing
Latch Speed Controls the final 15° when closing to ensure proper latching	If the door won't click shut, increase Latch Speed first. Still won't latch? Increase the Spring Power a little. Never fully release the valve (fluid may leak and voids warranty).	
Main Speed Controls the closing sweep from fully open to the last 15°	Slow for ADA requirements, or high traffic; speed up if the door drags.  TIP: Main Speed is about <i>timing</i> , Spring Power is about <i>lbs. of force</i> .	
Delayed Action Pauses before closing	Use for wheelchair access, deliveries, or slow-moving traffic. Adjustable from 0–50 sec.	
Backcheck Cushions forceful opens	Strengthen it for wind exposure or forceful openings; weaken if resistance kicks in too early.	

⚠ Never fully release / tighten BC valve. Risks injury or damage.

⚠ CAUTION

- Do not turn valves more than 180° per test. A little turn goes a long way.
- Never remove valves (hydraulic fluid will leak and voids warranty).

Use the 1/8 in. Hex Wrench to turn valves.



Valve	ID	CW 	CCW 
Spring Power *	SP	More force	Less force
Main Speed	S	Slower	Faster
Latch Speed	L	Slower	Faster
Backcheck	BC	Stronger	Weaker
Delayed Action	DA	Longer	Shorter

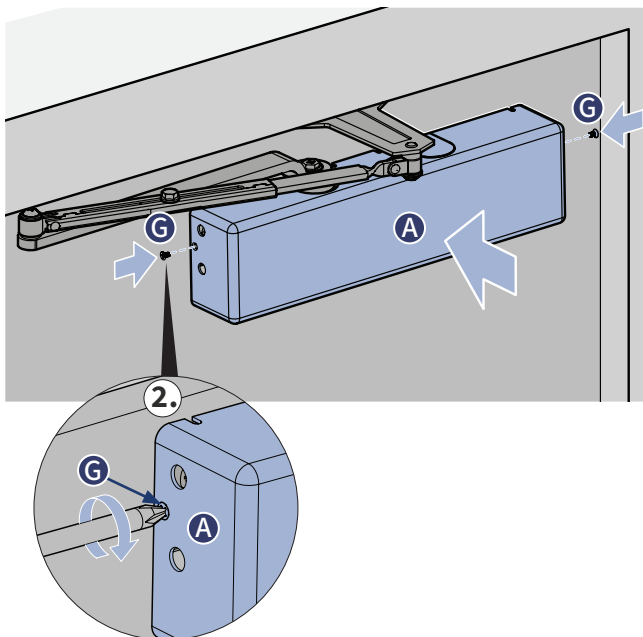
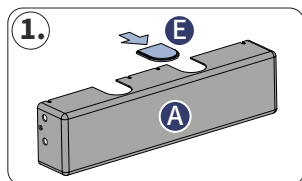
*** Spring Power:** comes factory set to Size 3

Power Size	1	2	3	4	5	6
lbs. of Force to open door	2 lbs.	3 lbs.	5 lbs.	8 lbs.	11 lbs.	14 lbs.

**General →
Suggestions**Standard INTERIOR doors,
5 lbs. minimum recommended.Standard EXTERIOR doors,
8.5 lbs. minimum recommended.Seek advice on setting for Fire
Codes and ADA regulations.

STEP 11. Install Cover

Slide the cover insert into the notch that will remain empty once placed over the closer body. Then secure the cover over the body with the two small screws.



CONGRATULATIONS!

You have successfully installed your 816 door closer

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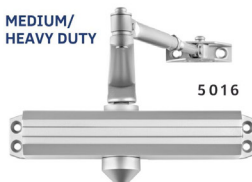
8016

HEAVY DUTY



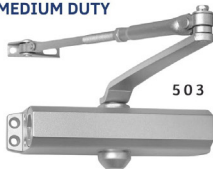
816

MEDIUM/
HEAVY DUTY



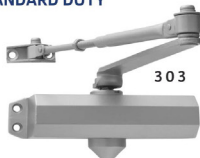
5016

MEDIUM DUTY



503

STANDARD DUTY



303

LIGHT DUTY



302

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