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Installation Instructions

Lockey® TB200|TB400|TB600 Hydraulic Pedestrian Gate Closer

TB200/400/600

Lockey Pedestrian Gate Closers are an economic and reliable automatic gate closer for use with both residential and commercial gates. Unlike normal closing springs, Lockey Pedestrian Gate Closers firmly push gates closed, making them ideal for use with magnetic locks and other latching devices. The closing speed is pre-set to provide a controlled close of approximately 5-8 seconds, depending on the weight of gate, hinge arrangements, quality of hinges, etc. With this closer there is no risk of maladjustment or tampering with the speed adjustment after the closer is fitted. Lockey Pedestrian Gate Closers are extremely simple to install. Each gate closer kit includes mounting brackets, fitting bar and instructions.

Lockey USA recommends the installation of a mechanical stop to avoid potential damage resulting from the gate opening angle exceeding 90 degrees. Failure to do so could result in a void of warranty.

FEATURES

- Closes both large and small gates ranging from 25 - 250 lbs. (models vary) easily, gently and smoothly.
- Hydraulic / Nitrogen Gas controlled closing speed
- Installs easily on side, top, middle or bottom of gate
- Compatible with both left and right hand gates
- Mounts on opening side of gate, to push gate closed
- Maximum opening angle of 110°
- Mounting brackets and fitting bar included



QUICK REFERENCE

Model	Up to Gate Width	Up to Gate Weight
TB200	52 inches	125 lbs.
TB400	64 inches	175 lbs.
TB600	72 inches	250 lbs.

TECHNICAL OVERVIEW

	TB200	TB400	TB600
Maximum Gate Weight:	125 lbs.	175 lbs.	250 lbs.
Maximum Gate Width:	52 inches	64 inches	72 inches
Maximum Opening Angle	110°	110°	110°
Type of Gate Material:	Vinyl, Wood, Steel	Vinyl, Wood, Steel	Vinyl, Wood, Steel
Closing / Latch Speed:	Hydraulic / Nitrogen Gas Controlled	Hydraulic / Nitrogen Gas Controlled	Hydraulic / Nitrogen Gas Controlled
Material:	Steel / Stainless	Steel / Stainless	Steel / Stainless
Color:	Black or Stainless Steel	Black or Stainless Steel	Black or Stainless Steel
Hinge Arrangements:	In-line and Offset	In-line and Offset	In-line and Offset
Opening Pressure:	5 - 10# approximately	7-12# approximately	12-16# approximately



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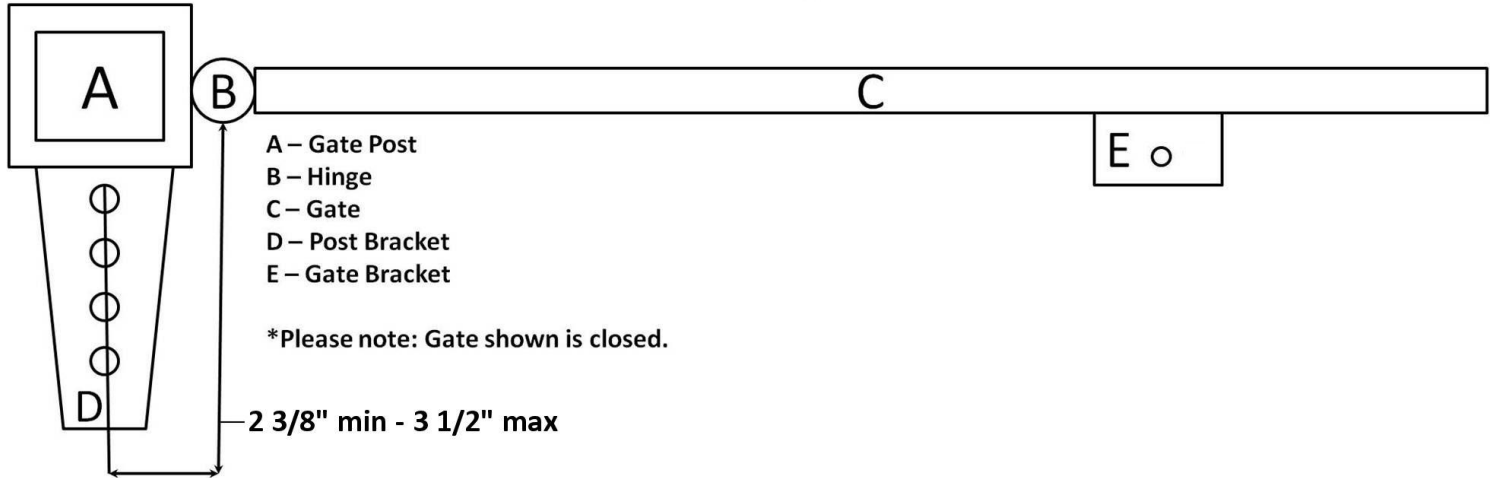
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Post Bracket to Hinge Diagrams

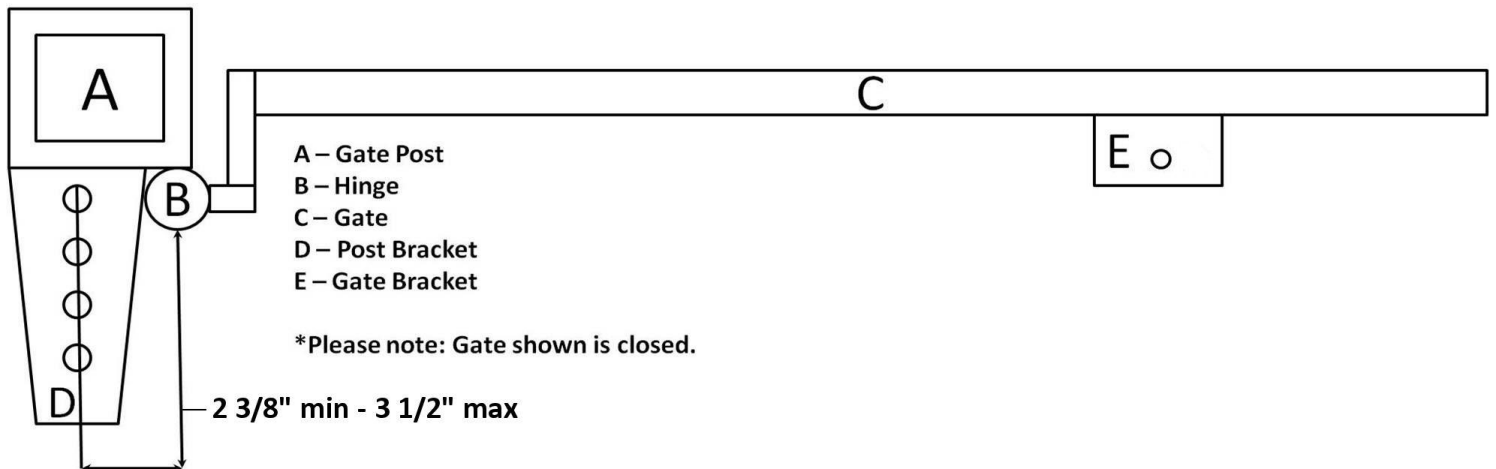
In-line Hinge Arrangement

Post Bracket – Hinge Dimensions



Offset Hinge Arrangement

Post Bracket – Hinge Dimensions





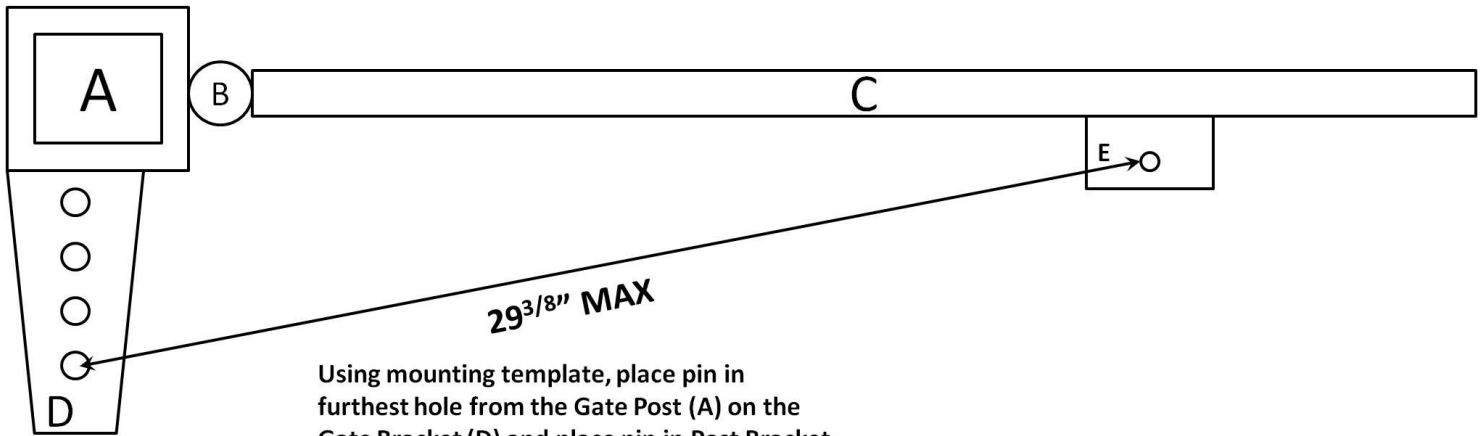
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Post Bracket to Gate Bracket Dimensions

- A – Gate Post
- B – Hinge
- C – Gate
- D – Post Bracket
- E – Gate Bracket

In-Line Hinge Arrangement *Post Bracket – Gate Bracket Dimensions*

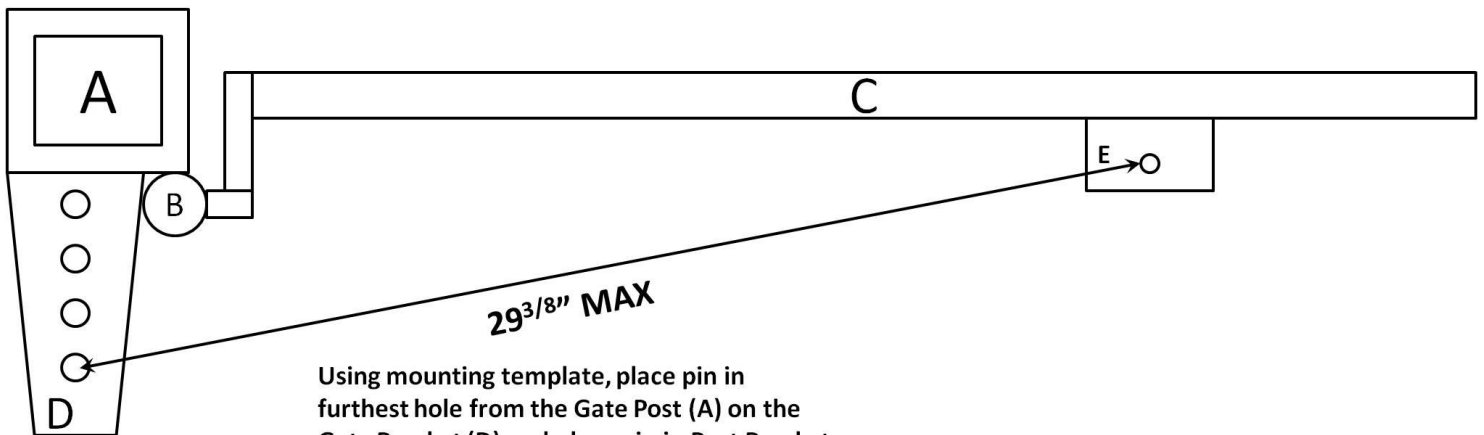


Using mounting template, place pin in furthest hole from the Gate Post (A) on the Gate Bracket (D) and place pin in Post Bracket (E). Adjust hole placement on (D) as needed to obtain desired dimensions.

*Please note: Gate shown is closed.

- A – Gate Post
- B – Hinge
- C – Gate
- D – Post Bracket
- E – Gate Bracket

Offset Hinge Arrangement *Post Bracket – Gate Bracket Dimensions*



Using mounting template, place pin in furthest hole from the Gate Post (A) on the Gate Bracket (D) and place pin in Post Bracket (E). Adjust hole placement on (D) as needed to obtain desired dimensions.

*Please note: Gate shown is closed.



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Other Dimensions & Configurations

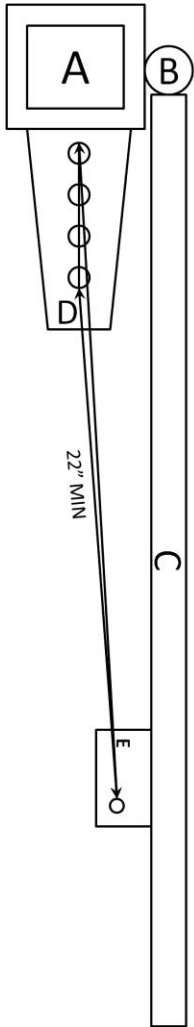


Figure #1
Post Bracket – Gate Bracket Dimensions
Open Position (Hinge configurations vary)

- A – Gate Post
- B – Hinge
- C – Gate
- D – Post Bracket
- E – Gate Bracket

IMPORTANT

- Distance between Post Bracket (D) and Gate Bracket (E) must be a minimum of 22 inches.
- Consider using an Extension Piece (included) if you have an Offset or Piano Hinge.
- If you are using an Extension Piece, flip Gate Bracket “E” to compensate for extension to attain desired dimensions.
- Open angle should not exceed 90°. Lockey USA recommends the installation of a mechanical stop to restrict the opening angle and avoid potential damage to the closer.

*Please note: Gate shown is open at 90° angle.

Figure #2
Post Bracket with Spacers and
Gate Closer attached.



**Gate Bracket with Spacers and
Gate Closer attached.**



Figure #3
Post Bracket Dimensions

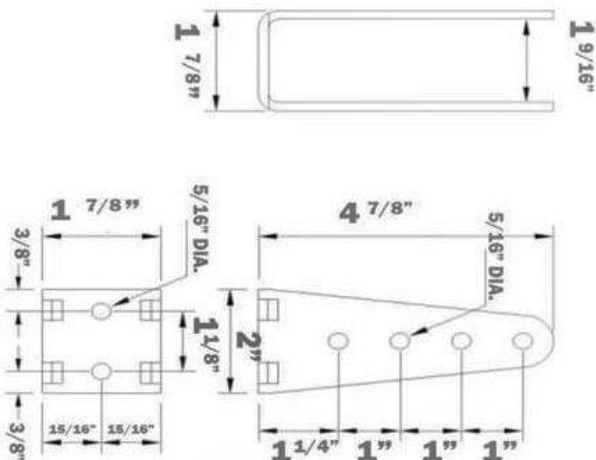
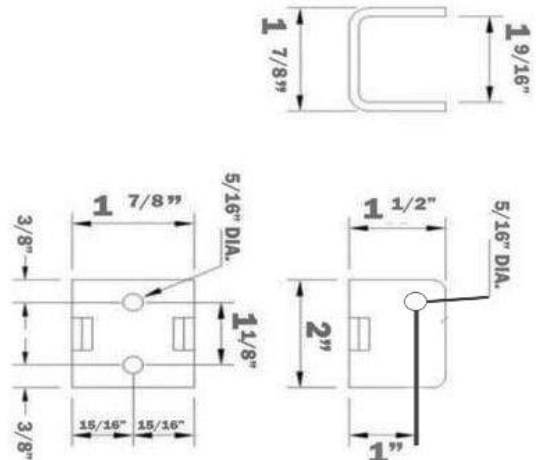


Figure #4
Gate Bracket Dimensions





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Components in Kit

*****NOTE: If tension hinge is used, the tension MUST be released to "0" or the minimum*****



Figure #1: Gate Closer Cylinder assembled with retaining bar
NOTE: DO NOT REMOVE ZIP TIES UNTIL INSTALLED



Figure #2: Gate Post Bracket

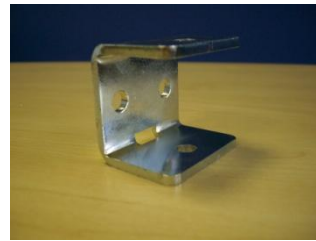


Figure #3 Gate Bracket



Figure #4: Hexagon Headed Securing Pins



Figure #5: Stainless Steel Spacers



**Figure #6: Button Head Socket Cap Screws
with Plain Washers**



Figure #7: Black Fitting Bar



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NOTE: DO NOT CUT ZIP TIES OR REMOVE THE RETAINING BAR FROM THE CLOSER

Step 1 – Secure *Gate Post Bracket (Fig. #2)* to the Gate Post

- Attach the *gate post bracket* to the gate post with a temporary clamp.
 - Follow the dimensions from the appropriate layout on Page 2.
 - Recommend 3” measurement from center of hinge to placement hole.

Step 2 – Secure *Gate Post Bracket (Fig. #2)* to the Gate

- Using one of the *hexagon headed securing pins (Fig. #4)* attach one end of the *fitting bar (Fig. #7)* to the *gate post bracket (Fig. #2)* using the hole that is farthest away from the post.
- Attach the *gate bracket (Fig. #3)* to the *black fitting bar (Fig. #7)* using the other *hexagon headed securing pin (Fig. #4)*.
- Swing the bar and the bracket to the closed gate ensuring that brackets are horizontally in-line with one another other.
- Secure the gate mounting bracket to the gate using a temporary clamp. Remove the black fitting bar and secure pins in the brackets.
 - The measurement from the mounting hole on the *gate post bracket* and the mounting hole on the *gate bracket* should not exceed 29^{3/8}”

Step 3 – Check to ensure **Bracket Mounting Positions are Correct**

- With the gate closed, check the distance between the hole farthest away on the *gate post bracket (Fig. #2)* and the hole in the *gate bracket (Fig. #3)*
 - The distance should be 29^{3/8}” **or less** (measure from the center of each hole)
- Open the gate to an angle of 90° and check the distance between the same two holes.
 - The distance should be 22” **or more**.
- If the dimensions are correct, screw or weld the *gate post* and *gate brackets* in place.

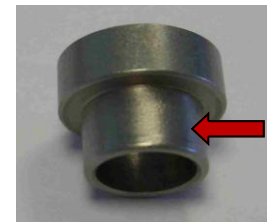
Step 4 – Grease the Components



Grease Securing Shaft (Fig. 4)



Grease Inside of Spacer (Fig 5)



Grease Spacer Shoulder (Fig 5)

Installation Instructions continued...

NOTE: DO NOT CUT ZIP TIES OR REMOVE THE RETAINING BAR FROM THE CLOSER

Step 5 – Fit the Gate Closer to the Mounting Brackets

- Place the *stainless steel spacers* (Fig. #5) into the gate closer cylinder end fittings.
- Following the dimensions from the appropriate installation drawings, place the smaller diameter end of the gate closer into the appropriate hole in the *gate post bracket* (Fig. #2) using one of the *hexagon headed securing pins* (Fig. #4).
- Place the larger diameter end of the gate closer into the *gate bracket* (Fig. #3) using the other *hexagon headed securing pin* (Fig. #4).
 - NOTE: The gate will need to be partially open to do this.
- Cut the zip ties from the gate closer.
- Open the gate further and remove the steel retaining bar from the gate closer cylinder.
- Release the gate and it will close automatically.

Step 6 – Final Set-Up and Testing Function

- Ensure that you have installed a mechanical stop in the correct position to prevent the gate's opening angle from exceeding 90°.
 - To do this, open the gate to a position where the distance between the center of the *hexagon headed securing pins* is 22 inches or more apart.
- Set the gate's mechanical stop to restrict the opening at this point.
- Open the gate and allow the closer to automatically close the gate several times to test the function.

NOTE: The closer should never compress to be less than 22" from the gate post bracket to the gate bracket (See Page 4; Figure #1). Further compression could damage the gate closer and result in a void of the warranty.

Step 7 – Check mounting bolts

- Check that all mounting bolts and screws are secure.
 - Secure and tighten *hexagon headed securing pins* on the underside of the brackets by tightening the hexagon headed (Allen) stainless steel securing screw and plain washer (use suitable thread locking liquid if required).
- Remove plastic cover from the gate closer cylinder.
- The gate closer is now ready for use.

Step 8 – Grease end fittings

- Coat the end fittings with a layer of grease.

Maintenance

Carry out regular inspections of the gate closer and fittings, checking that fixings are secure and the closer is functioning correctly. Lubricate closer parts when necessary, as indicated in fitting instructions (See Page 4; Figure #2). Remove gate closer cylinder immediately if it malfunctions or there is any damage to the closer or end fittings.

Troubleshooting & Tips

If the gate closer is not strong enough, or closes too fast, you need to move the cylinder one-hole (notch) away from the post, on the *gate post bracket* (Fig. 2). Repeat if necessary. Do the opposite if it is too strong.

The cylinder pushes the gate closed at a speed of approximately equal to one-second per inch that cylinder compresses. The speed of the cylinder will not change significantly by moving the gate closer further away from the gate post. Cylinder compression of 5-6" is optimal at an opening angle of 90°.

When you have a corner hinge or offset hinge arrangement, the multi-hole *gate post bracket* allows for more options to achieve the ideal closing strength by moving the closer nearer or further away from the gate post. This can solve problems that arise, because the hinge off set from the post varies from gate to gate. With an in-line hinge setup it is often necessary to move the closer away from the post, because more strength is required from the gate closer, particularly when installing the closer on heavy gates.

For more information, visit www.LockeyUSA.com.