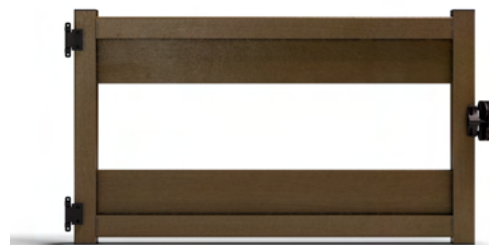




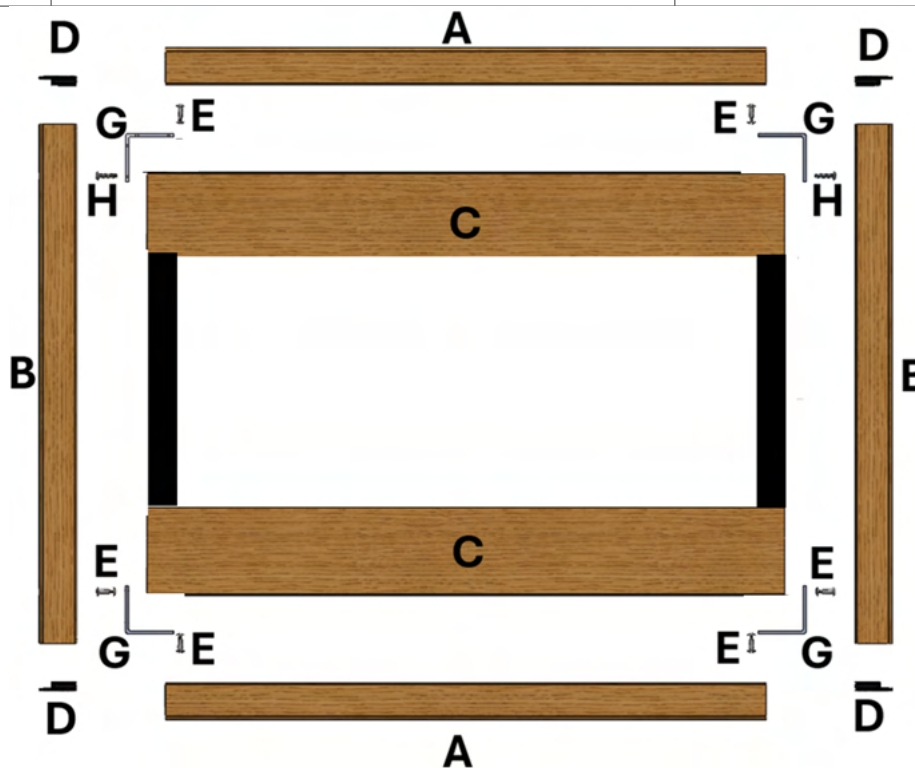
**TWO BOARD RANCH RAIL GATE**  
INSTALLATION GUIDE

## TWO BOARD RANCH RAIL GATE

### COMPONENTS



ITEM	QTY	DESCRIPTION	NC PART
<b>Complete Product</b>	<b>1</b>	<b>Two-Board Ranch Rail Gate</b>	<b>100324XX30400</b>
<b>A</b>	2	Horizontal U-shape posts (40 1/2 inches)	300722XX0405
<b>B</b>	2	Vertical U-shape posts (26 5/16 inches)	300722XX035
<b>C</b>	2	Square edge 1x6 boards (43 inches)	300341XX043
<b>D</b>	4	NC Top Caps	200721BK0000
<b>E</b>	6	Joint connector pairs (Chicago screws)	AC98002A304
<b>F</b>	2	NC Spacers (10 11/16 inches)	200723XX00000
<b>G</b>	4	NC Angle Brackets	AC L-BRACKET 3.25X3.25
<b>H</b>	2	Phillips flat head thread-cutting screws (5/16-inch diameter, 1 1/2 inches long)	AC90087A896



## BEFORE YOU BEGIN

### Before You Begin:

1. **Verify Underground Utilities**  
Use aids such as local building departments, utility companies, or utility location services to ensure the area is free from underground lines or hazards.
2. **Locate Property Lines**  
Ensure the fence is installed within your property boundaries to avoid encroachment and comply with legal requirements.
3. **Consult Local Building Codes**  
Review local codes to ensure the fence and gate installation meets all requirements. Obtain any necessary permits before starting the installation.
4. **Wear Appropriate Safety Equipment**  
Always wear gloves, safety goggles, and work boots to avoid injuries during installation.

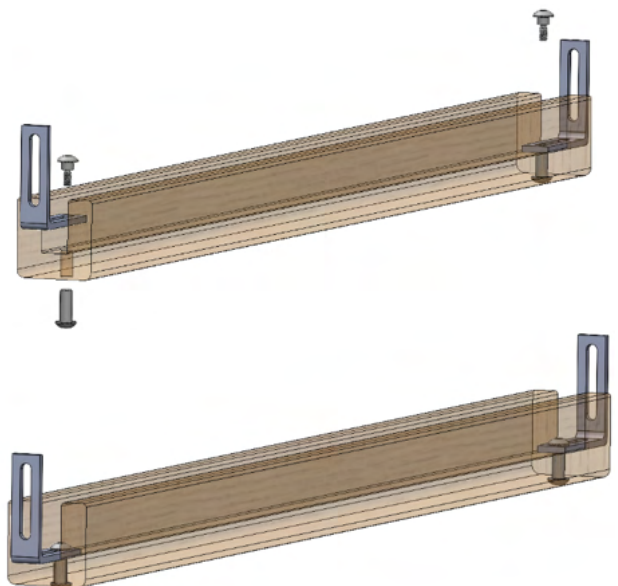
## TOOLS REQUIRED

### Tools for Installing the Fence

- **Rubber mallet** (not included, for securing angle brackets)
- **#4 Phillips screwdriver**
- **Power tool** compatible with a #4 Phillips screwdriver
- **Torx T20 Bit** (for fastening the top cap)

## STEP 1: Attach 2 Angle Brackets to the Bottom Horizontal U-Post

1. **Install Two Angle Brackets**  
Attach an angle bracket on each side of the U-post. The pre-drilled holes will automatically align with the brackets. Use a rubber mallet if needed to secure the brackets inside the U-channel.
2. **Secure the Angle Brackets with Joint Connectors (Chicago Screws)**  
Place the female joint connector on the outside of the post and the male part inside the U-channel. Use the **#4 Phillips screwdriver** to tighten them, but do not fully tighten until the next step. (Do not over-tighten).



## STEP 2: Install the Vertical U-Posts to the Bottom Horizontal U-Post

1. **Position the Vertical U-Posts:**

Attach the two 35-inch vertical U-posts to the bottom horizontal U-post to create the gate frame.



2. **Align and Slide the Angle Brackets:**

**Brackets:** Slide the angle brackets into the U-channels of the vertical posts, tapping gently with a rubber mallet if necessary.

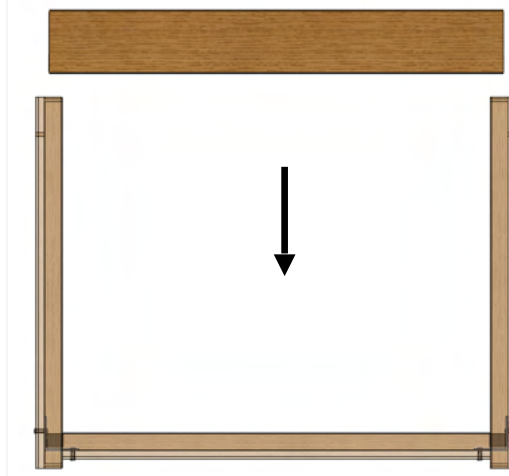


3. **Secure the Angle Brackets with Joint Connectors:**

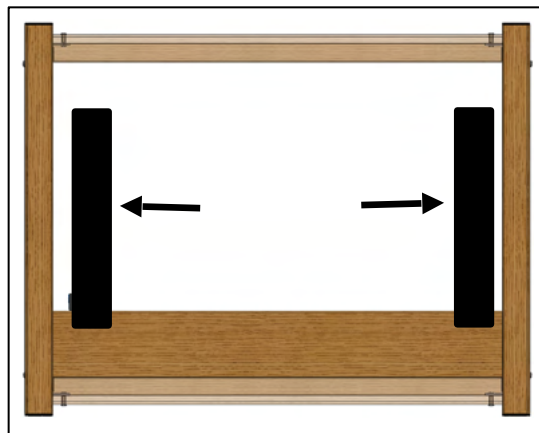
Repeat the process to tighten the joint connectors. Once aligned, fully tighten all connectors, ensuring the connectors do not interfere with the NC boards (do not over-tighten).

## STEP 3: Slide the NC Boards into the Frame

1. **Slide the First NC Board.** The gate comes with four square edge boards (43 inches). Slide one board into the frame from the top until it fits securely.



- 1.
2. **Position the NC Spacers**  
Place a 10 11/16-inch spacer inside each U-shaped post after sliding in the first board.



3. **Secure the Spacers with Velcro Dots**  
Attach four Velcro dots to each spacer, positioning them to ensure they touch the inside of the U-channel post. Repeat the process for the remaining boards and spacers.



4. **Complete the Gate Structure**  
After all boards and spacers are installed, the main structure of your gate will be complete.



#### STEP 4: Close the Gate by Installing the Top Horizontal U-Post

1. **Attach Angle Brackets to the Top U-Post**

Attach two angle brackets to the top U-post. Install the joint connectors (Chicago screws) but do not fully tighten them.

2. **Slide the Top U-Post into Place**

Carefully slide the top U-post into the frame, ensuring it fits above the last NC board. Use a rubber mallet if needed. Once aligned, fully tighten the joint connectors (do not over-tighten).



#### STEP 5: Secure the Top U-Post

1. **Insert the Screws into the Vertical U-Posts**

Use the provided flat head screws and insert them into the pre-drilled holes on both vertical U-posts.

2. **Tighten the Screws with a Power Tool**

Use a power tool with a #4 Phillips screwdriver to drive the self tapping screws into the angle brackets for a secure connection.



## STEP 6: Install the Post Caps on All 4 Post Ends

### 1. Slide the Top Caps into Place

The gate comes with four NC top caps. Slide a top cap onto each of the four post ends, aligning the groove of the cap with the post.

### 2. Secure the Top Caps

Use the provided screws and a Phillips screwdriver to secure the top caps in place, ensuring they are tight and properly aligned.



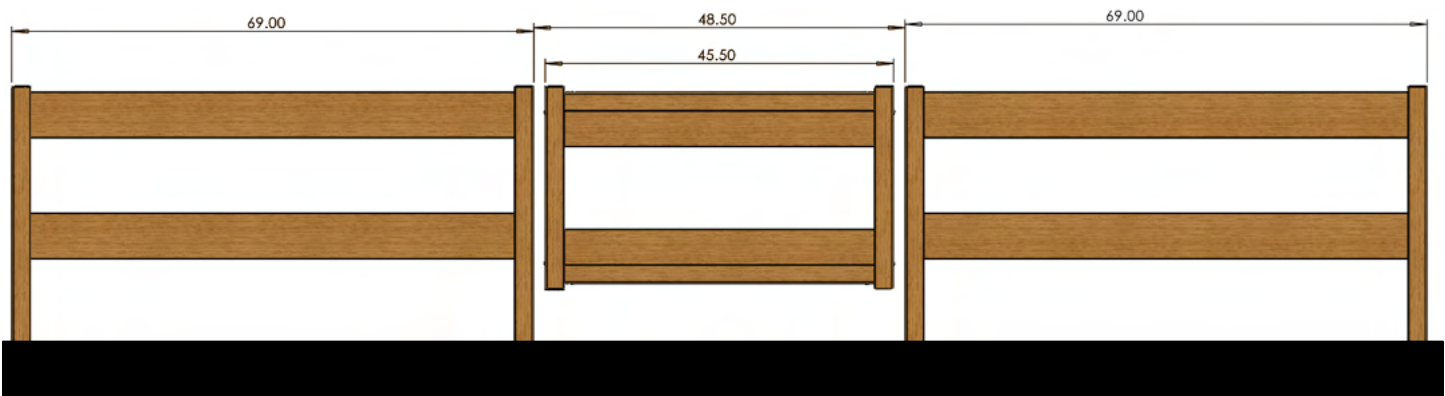
## Before Hanging Your Gate

Please see below for NC recommended mounting options.

**Option 1. Considers mounting the gate from a NC Composite Modern Perimeter Fence system (3.5 ft. H x 6 ft. W)**

### 1. For Residential Installations (Light to Moderate Use):

This post is part of the **Composite Modern Two Board Ranch Rail (3 ft. H x 5.75 ft. W)** system and is suitable for residential applications where the gate will not experience heavy usage. The **top cable fastener**, included as part of the fence installation, must be used when hanging the gate on this post. It is **critical** to install the top cable fastener to ensure that the gate's weight is distributed across the entire system, preventing sagging and ensuring long-term stability.

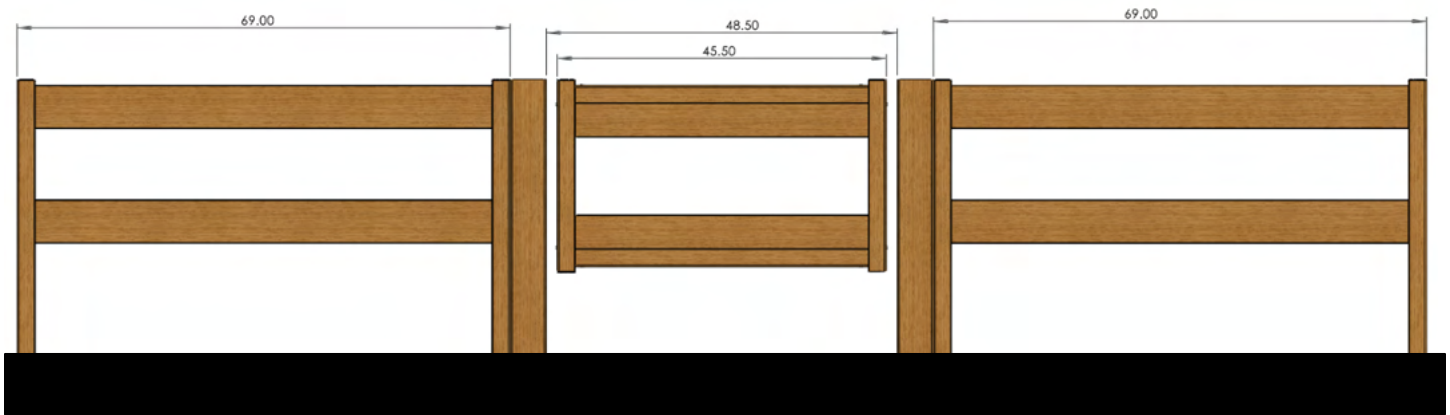




1. **For Commercial or Heavy Usage Applications:**

- **NC Part number 300755XX094 (includes post cap)**
- **NC 5x5 Composite Commercial Grade Post (94 in. H x 5 in. W)**

For commercial settings or residential applications with heavy use, NC recommends the **5x5 Composite Commercial Grade Post**. This post is specifically designed to handle the gate's weight and withstand the demands of high-traffic environments, providing a secure and stable installation.



**Before You Begin Installation**

1. **Measure and Prepare the Gate Opening**

The gate measures 40 inches high and 45.5 inches wide. Ensure the gate opening is 47.5 inches wide, leaving 1 inch of clearance on each side.

2. **Select the Post**

Depending on your installation type, choose the option is best fitted for the job.

3. **Adjust Post Height**

The 5x5 post should be cut to a height of 65-70 inches, with 1/3 of the post buried in the ground for stability.

4. **Check Ground Clearance**

Maintain a minimum 2-inch clearance between the gate and the ground to prevent dragging and ensure smooth operation.

**Best Practice for Hole Depth**

The best practice for determining post hole depth is to ensure that the hole is at least **one-third of the total post length** or more, depending on the type of fence or gate. However, if you are specifically burying the post **24 inches**, the **recommended post hole depth should be 26-30 inches** to account for the following:

1. **Stability:** The extra depth provides better stability, especially when supporting weight, such as a gate.
2. **Gravel Layer:** Adding **6 inches of gravel** for drainage at the bottom of the hole helps prevent water buildup and rot while maintaining stability.
3. **Concrete Footing:** The concrete should be poured above the gravel to secure the post and fill the remaining depth.



In summary, for a post buried **24 inches**, digging the hole **26-30 inches deep** provides a secure foundation and ensures long-term durability.



### Gate Alignment and Support

1. **Recheck Alignment**  
Ensure the posts are straight and level.
2. **Test Post Stability**  
Apply pressure to check that the posts are stable to prevent gate sagging.

### Prepare the Gate and Hardware.

**NC recommends to follow the gate hardware manufacturers instructions.**

1. **Check Hardware**  
Ensure you have all necessary hardware, including hinges and latches.
2. **Attach Hinges and Pre-Drill Holes**  
Pre-drill holes in the posts and attach the hinges to ensure level gate hanging.
3. **Reversible Installation**  
The gate is reversible for **left-hand** or **right-hand installation**.
- 4.

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### Building Codes and Permits

1. **Check Local Regulations**  
Ensure compliance with local building codes and zoning regulations.
2. **Obtain Permits (if necessary)**  
Obtain any required permits before starting the project.

*For any further information or questions please visit [www.naturescomposites.com](http://www.naturescomposites.com) or call us at (877) 810-4029*

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