

How To Guide:

# SPLIT RAIL FENCE

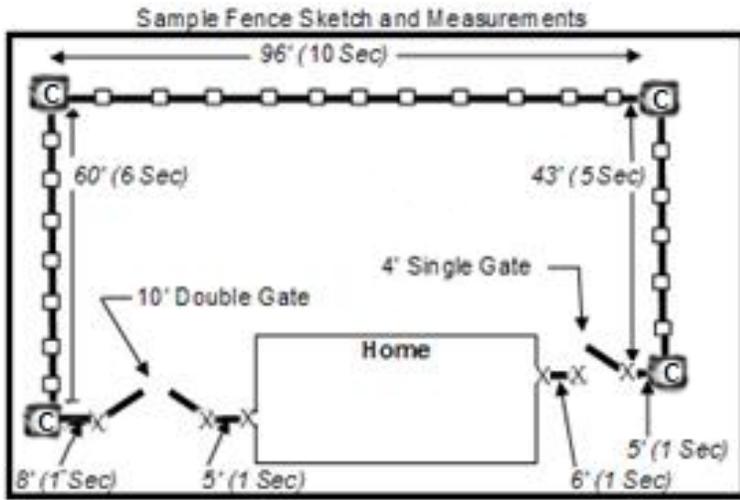


# Fence & Deck Supply

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- ☐ Corner Post
- ☐ Line Post
- X End Post

Figure the number of sections for each line by dividing the length of each line in inches by 120. Round any remainder up.



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*The material calculations on this form are intended for rough estimation based on 10' section. Actual numbers may vary.*

# of Sections (Divide each line by 120" and round up; add total # of sections):	3 Rail	2 Rail	<b><u>Split Rail</u></b>
<b>Items Needed</b>	<b>Total Materials</b>		
3 Rail End Post			
3 Rail Line Post			
3 Rail Corner Post			
2 Rail End Post			
2 Rail Line Post			
2 Rail Corner Post			
10' Rail			
80 lbs Bag Concrete (Optional)			
# of Single Gate(s)			
# of Double Gate(s)			

- For standard single gates (50" opening): (1) small gate panel, 2 adjustable hinges, 1 double ring gate latch
- For standard double gates (130" opening): (2) large gate panels, 4 adjustable hinges, 1 double gate slide latch

## Tools Needed

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Stakes           | <input type="checkbox"/> Circular Saw |
| <input type="checkbox"/> String Line      | <input type="checkbox"/> Drill        |
| <input type="checkbox"/> Marking Paint    | <input type="checkbox"/> Pencil       |
| <input type="checkbox"/> 4' Level         | <input type="checkbox"/> Wheelbarrow  |
| <input type="checkbox"/> Tape Measure     |                                       |
| <input type="checkbox"/> Shovel           |                                       |
| <input type="checkbox"/> Post Hole Digger |                                       |
| <input type="checkbox"/> Digging Bar      |                                       |

## Before you begin

Confirm location of underground utilities with local providers before you dig. ( Utah 1-800-662-4111)

Check local HOA and zoning laws which may regulate the height and placement of your fence.

Apply for local permits as directed by local code

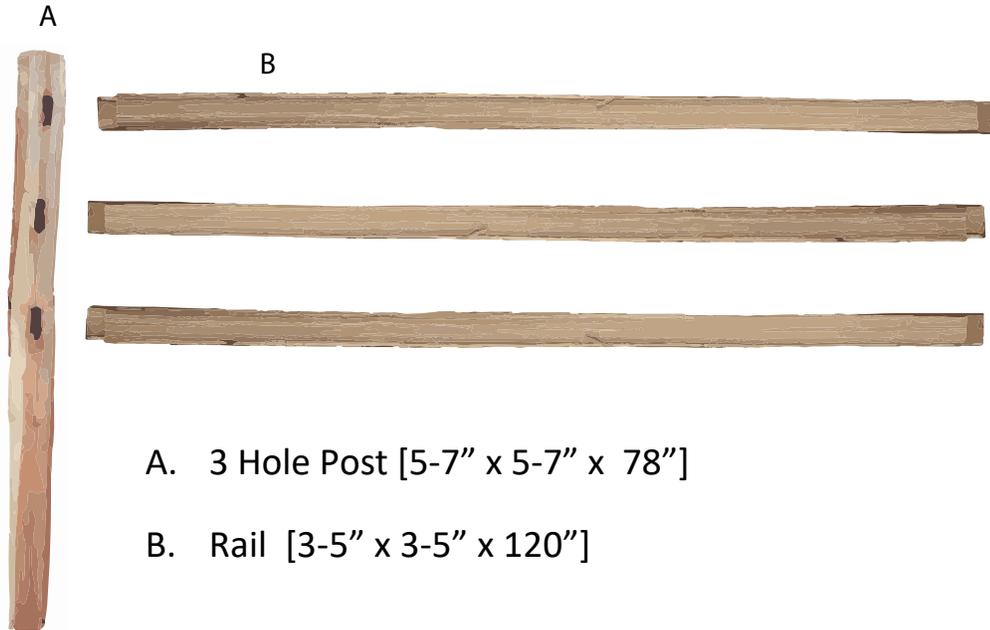
Wear proper safety protection for eyes and ears.

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## Exploded View

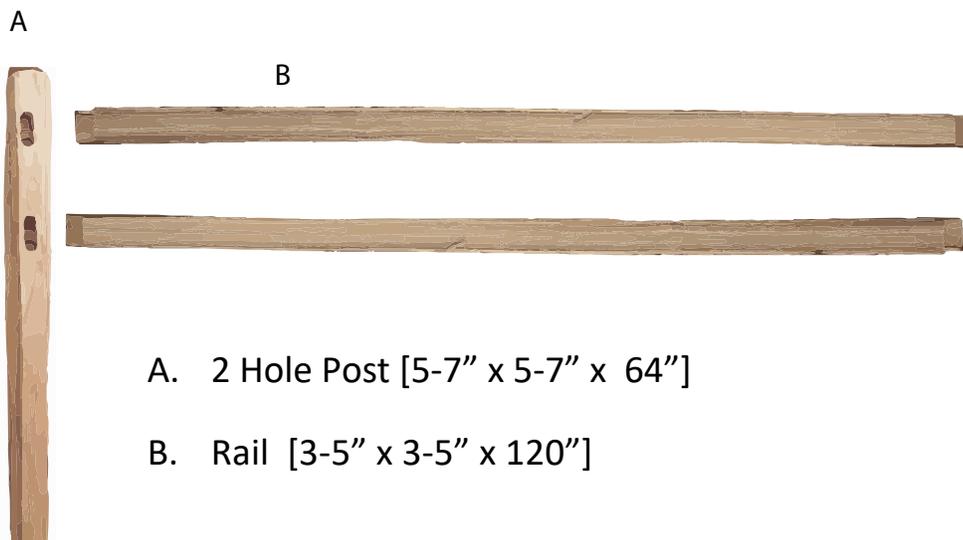
### 3 Rail Fence



A. 3 Hole Post [5-7" x 5-7" x 78"]

B. Rail [3-5" x 3-5" x 120"]

### 2 Rail Fence

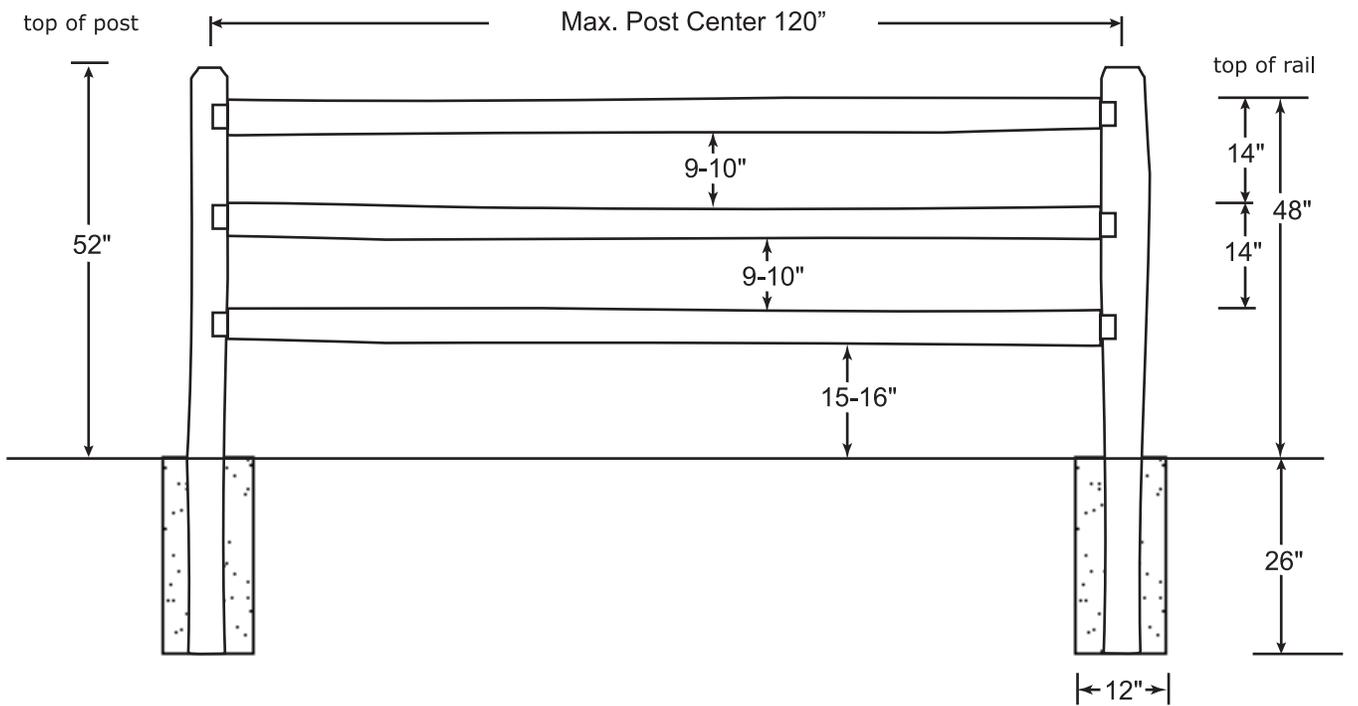
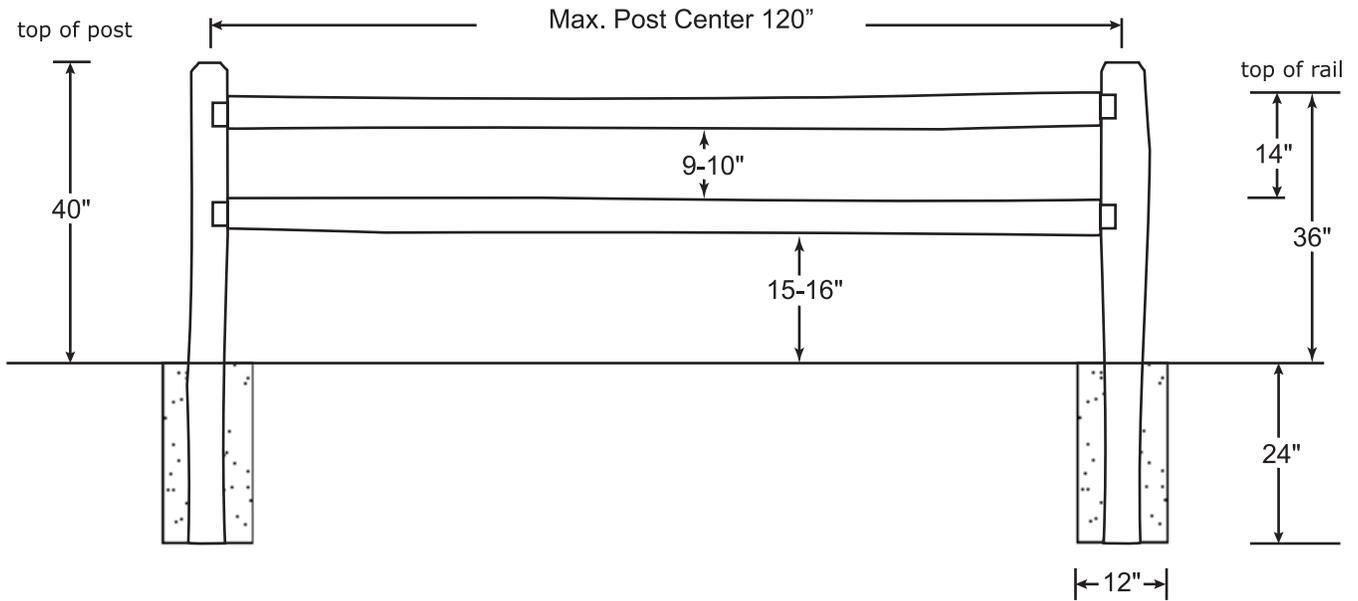


A. 2 Hole Post [5-7" x 5-7" x 64"]

B. Rail [3-5" x 3-5" x 120"]

# How To Guide:

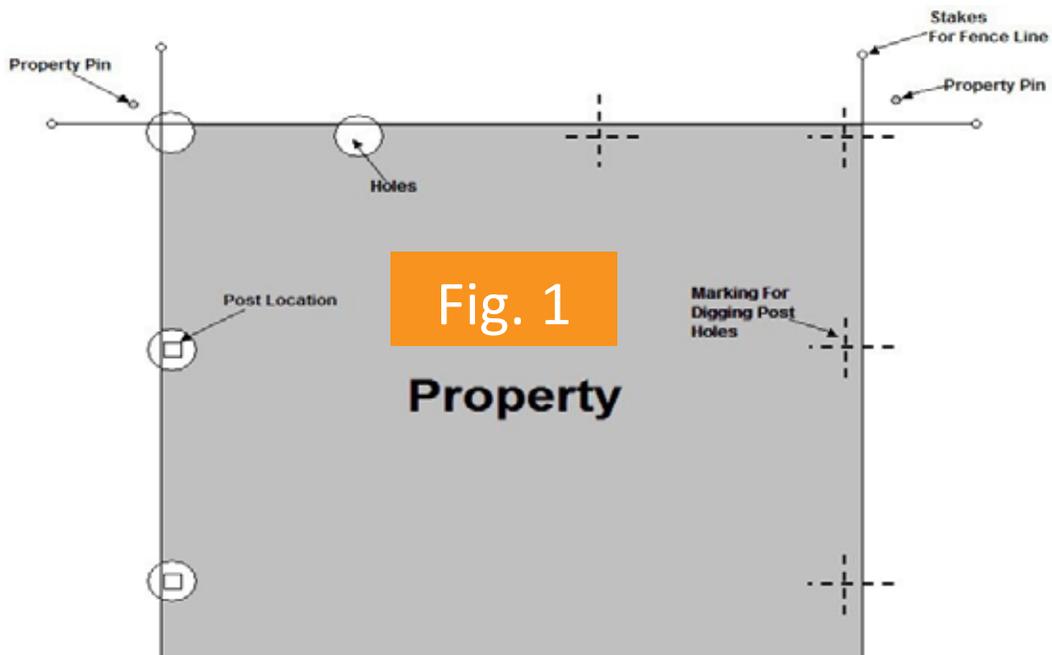
# SPLIT RAIL FENCE



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## Step 1: Stake and String

1. Stake & string fence lines. Drive stakes approx. 2 ft. beyond property pins so that stakes will not be disturbed when digging holes, and approx. 4-5 inches inside of property pins to insure no encroaching of neighbors property (See Fig.1).
2. Mark location of posts. Spray paint a line perpendicular to the string on center in relation ship to what type of post it will be\*. Spray addition line (making a cross) 2" in from the string to mark center of hole.



## Step 2: Dig Holes

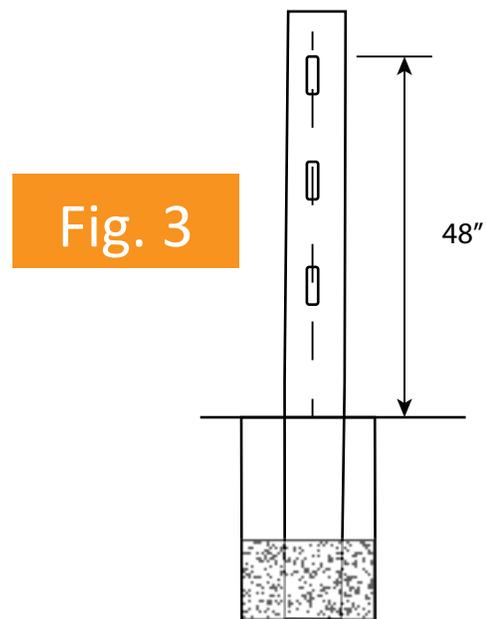
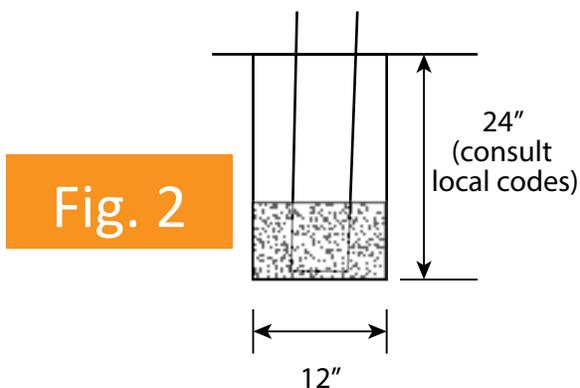
1. Dig the holes for the posts making sure not to disturb the stakes for the string. The string may be removed and replaced after holes are dug. The holes should be approximately 12" diameter and 24" deep (depending on local codes) (see Fig 2).

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## Step 3: Set End or Corner Post

1. Starting with an end post or corner post, set the post in the hole. Be sure the rail tenon holes are level and in line with the fence (see Fig. 3).
2. Fill the hole about a third of the way with dirt or gravel ( or dry bag of concrete, if using), enough to hold the post in place but still allow for later adjustment, if needed (see Fig. 2).
3. The top of the top tenon hole should be 48" out of the ground if a 3 rail fence, and 36" out of the ground if a 2 rail fence (see Fig. 3).

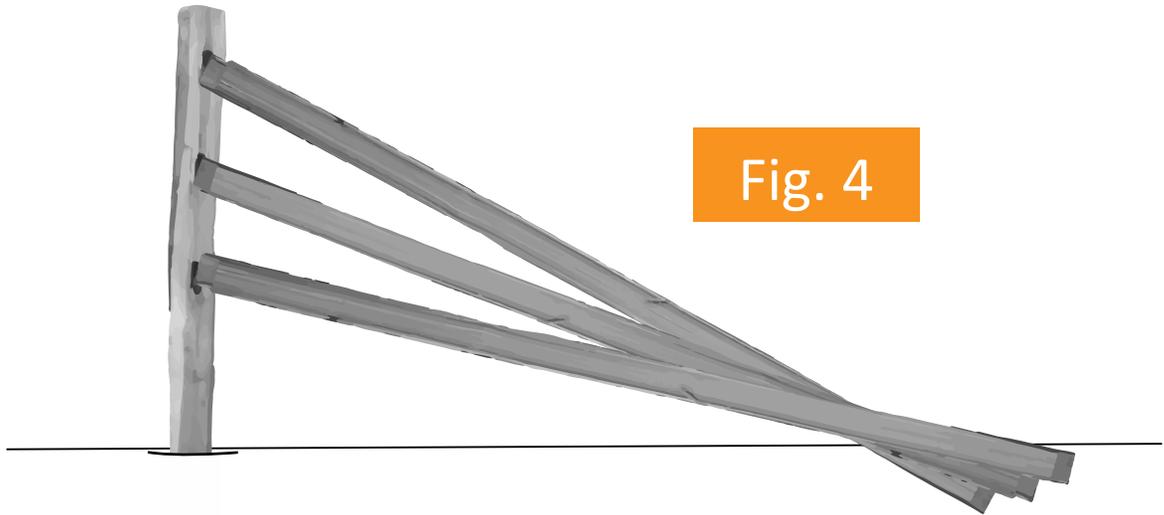


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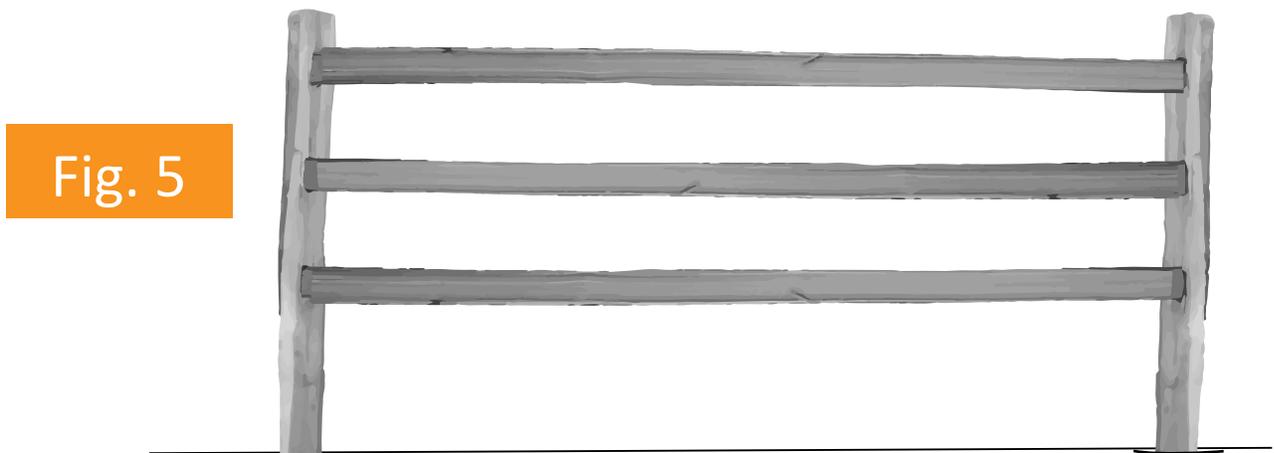
## Step 4: Add Rails

1. Add the rails by inserting the cut tenon ends into the holes (see Fig. 4).



## Step 5: Set Next Post

1. Put the next post (line, end, or corner) into its hole and carefully fit the rails into the tenon holes (see Fig. 5).
2. Set the post by once again partially filling the post hole and level out the post.
3. Repeat this process until line of fence is complete.



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## Step 6: Adjust Post Heights to Even Rails

1. By standing back from the fence line you will be able to see which posts need to be adjusted to even out the flow of the rails (see Fig. 6).
2. Carefully raise or lower individual posts, until rails appear even.



Fig. 6



## Step 7: Fill in Holes

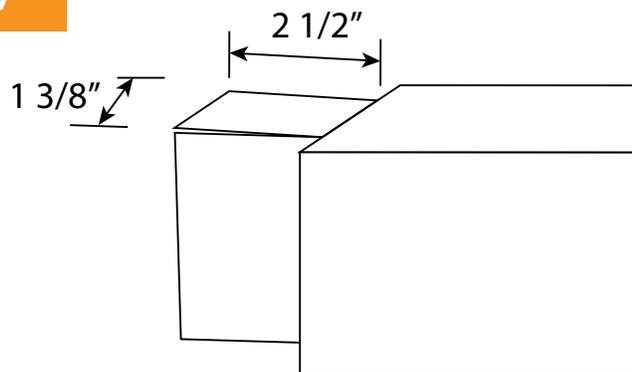
1. Fill in the holes the rest of the way with dirt, gravel or post mix to secure posts.

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## Step 8: Cutting Rails

1. Since few fencelines work out perfect, you will most likely need to cut some rails for length.
2. Measure the desired opening between posts and cut the rails 5 inches longer to allow for a two and a half inch tenon on each end.
3. With your saw, cut the tenon  $2\frac{1}{2}$ " long and  $1\frac{3}{8}$ " wide (see Fig. 7).

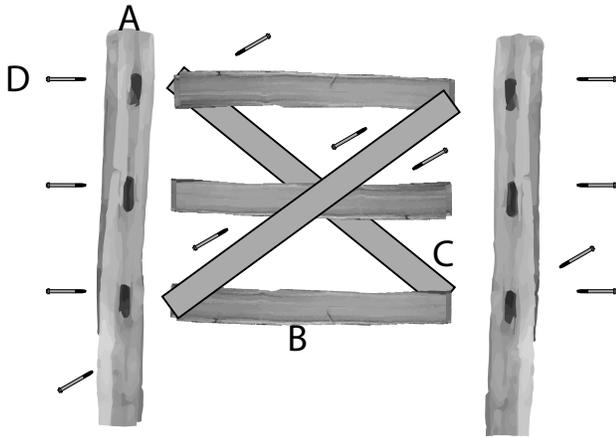
Fig. 7



# How To Guide:

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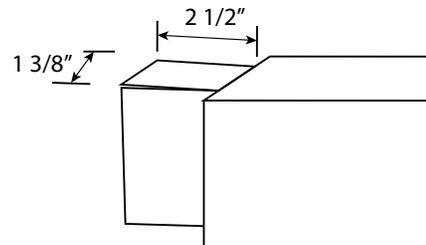
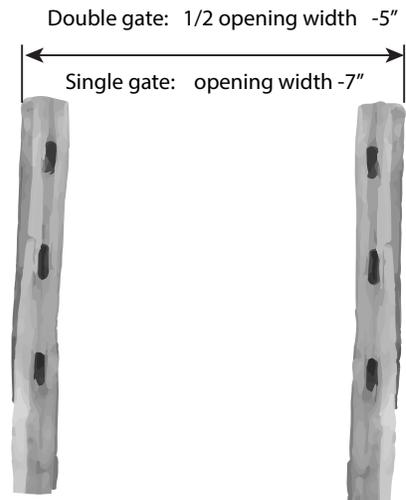
## Building a Gate



- A. End Post (2)
- B. Cut Rail (3)
- C. Cedar Slats (2)
- D. Timber Screws or Lags and Washers (12)

PROPER GATE OPENING POST TO POST			
PANEL SIZE	SINGLE GATE OPENING	DOUBLE GATE PAIRED w/ 42"	DOUBLE GATE PAIRED w/ 60"
42"	49"	94"	112"
60"	67"	112"	130"

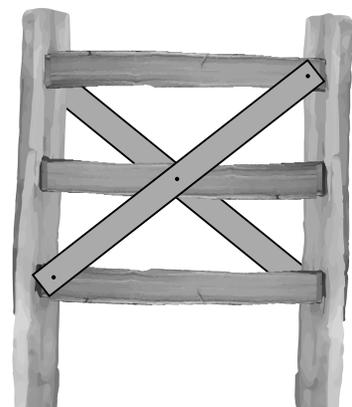
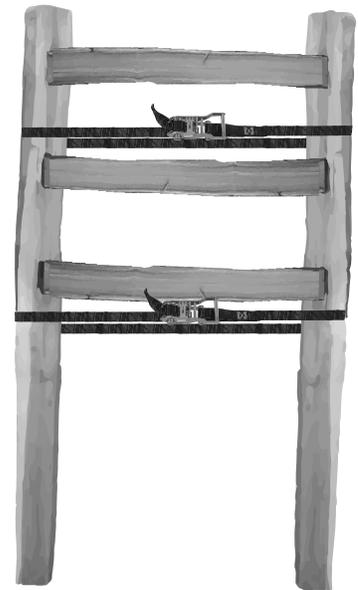
1. Measure the gate opening and then lay out two end posts so that the outside edges measure 7" less than the opening for a single gate panel, or 5" less than half the opening for a double gate panel.
2. Measure and cut each rail individually since posts are irregular shaped. Each rail should be 5 inches longer than the distance from tenon hole to tenon hole.
3. With your saw, cut the tenon 2 1/2" long and 1 3/8" wide.



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4. Assemble the posts and rails and then pull tight with bar clamps or ratchet strap tie downs.
5. Drive timber screws through the side of the posts into the tenons to secure the rails.
6. Cut the cedar slats to fit diagonally from top rail to bottom rail. One on each side of the gate. Secure each slat with timber screws through the slat where it crosses each rail.
7. Remove the straps or bar clamps.
8. Measure down from the top rail and cut off the posts 2" shorter than the fence rail height.



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## Hanging a Gate

A. Hinge Post

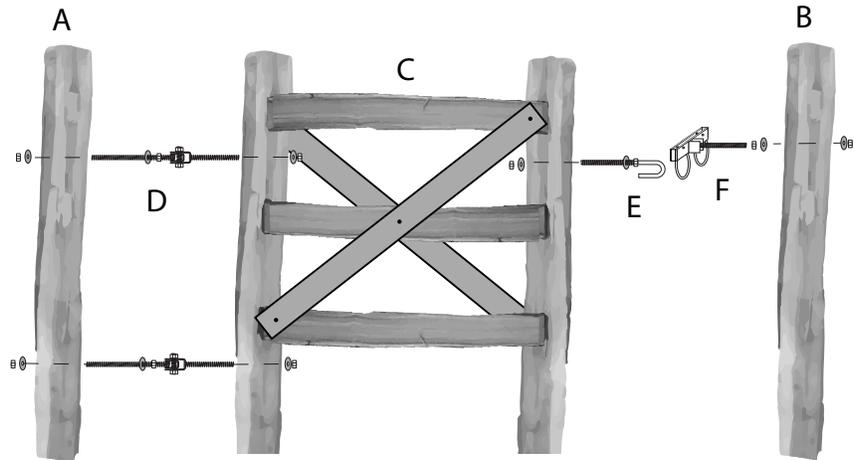
B. Latch Post

C. Gate Panel

D. Heavy Duty  
Adjustable Hinges

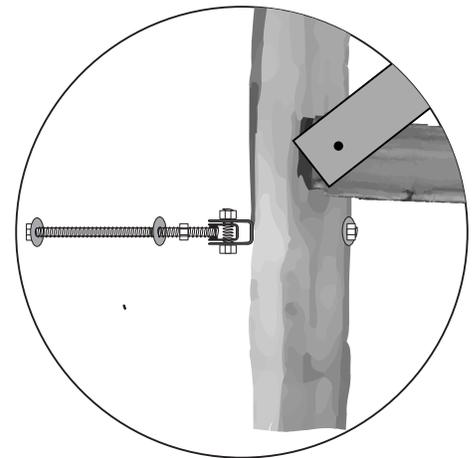
E. J Bolt

F. Two - Ring  
Gate Latch



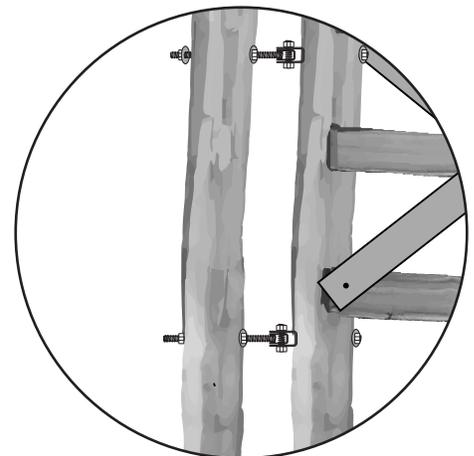
1. Install Hinges in Gate Panel

- Drill 11/16" holes thru gate panel upright
- Install shorter side of hinges on gate and tighten lightly.



2. Install and Level Gate Panel

- Drill 11/16" holes thru gate post
- Install hinges in gate post and level.
- Shorten top hinge gap to pull gate up.
- Lengthen bottom hinge gap to push gate up.
- Open gate 90 degrees and tighten hinges tightly.

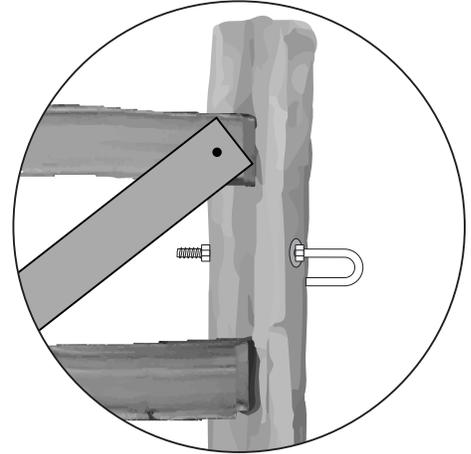


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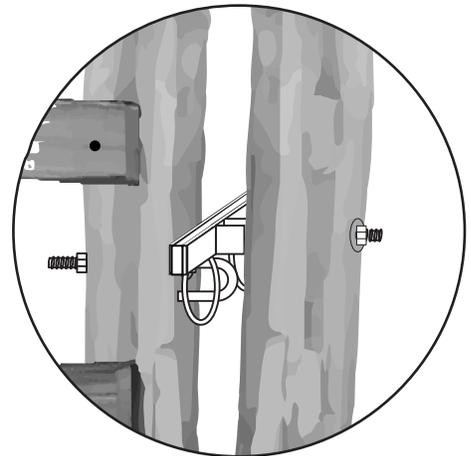
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## Install Two-Ring Gate Latch

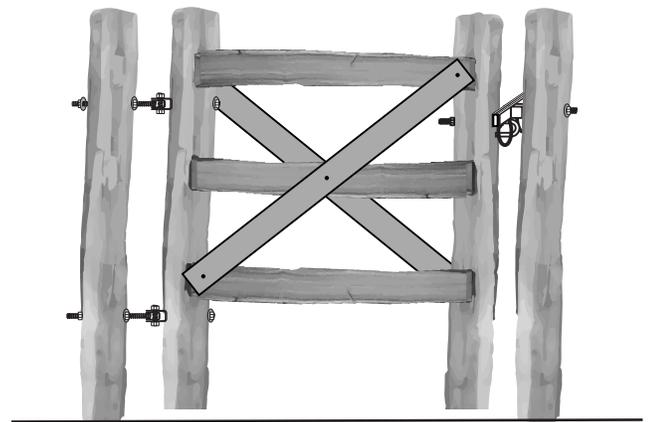
1. Install J Bolt in Gate Panel
  - a. Drill 11/16" hole thru gate panel upright about halfway between the top two rails.
  - b. Install j bolt thru the hole and tighten so that the loop is vertical.



2. Install Ring-latch in Latch Post
  - a. To find latch mounting bolt center line, measure up 1 1/4" from the TOP of J-bolt and mark post for drilling.
  - b. Drill 11/16" hole through post.
  - c. Install latch in drilled hole and tighten while making sure latch is level.
  - d. Adjust J-bolt length as needed and tighten everything completely.



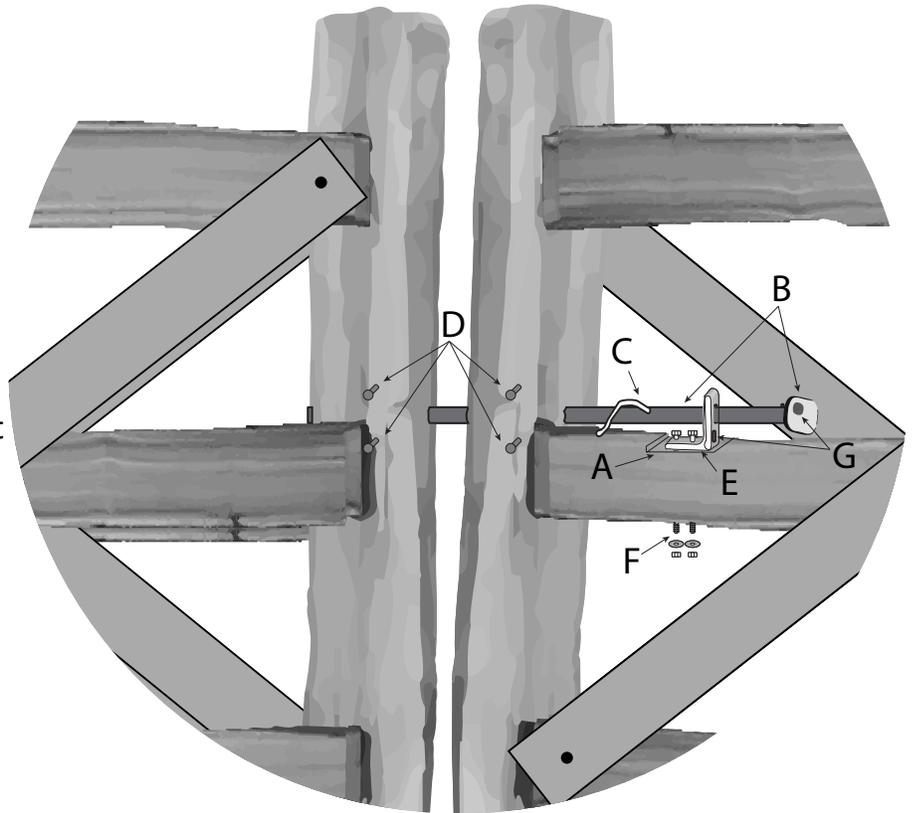
**NOTE:** FOR SAFETY - ALWAYS CUT OFF ALL EXCESS THREADS AND FILE OFF ALL SHARP EDGES.



# SPLIT RAIL FENCE

## Installing Slide Latch (For Single or Double Gates)

- A. Flat Spot on Rail
- B. Latch Pin Assembly
- C. Latch Handle
- D. (4) 3/8" x 8" Carriage Bolts
- E. Angle Iron Mounting Bracket
- F: (2) 3/8" x 6" Carriage Bolts
- G: Holes for Snap or Padlock



1. Gate panels must be installed and leveled before latch installation.
2. Make a flat spot on rail.
  - a. Close latch completely and hold up to the gate with the handle close to the inside of the gate front upright.
  - b. Mark gate rail and make a small flat spot for angle mounting bracket.
3. Drill gate front uprights.
  - a. Set angle iron bracket on flat spot and hold latch horizontal to determine height to drill hole through both gate uprights.
  - b. Drill holes using a long 7/8" drill bit.
  - c. **NOTE:** Don't drill holes too high. Flat spot can be lowered if needed.
  - d. **Care should be taken to drill holes horizontal and centered.**

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4. Install Latch.
  - a. Install latch in gate and slide latch to closed position. Handle should be next to gate upright.
  - b. Compare height of flat spot and holes in uprights so latch slides freely.
  - c. With the latch in the closed position, mark and drill 3/8" holes in flat spot and insert 3/8" x 6" bolts through angle iron bracket and rail.
  - d. Using washer and plain nuts, tighten both completely.
  - e. Saw off 3/8" bolts flush against nuts.
  
5. Strengthen gate front uprights.
  - a. Drill four 3/8" holes approximately 2" above and 2" below rod going through gate uprights.
  - b. Install 3/8" x 8" carriage bolts with washers and regular nuts.
  - c. Tighten completely and saw off excess flush against nuts.
  - d. Replace 3/8" nuts with acorn nuts.

## Contact us:



FENCE & DECK SUPPLY

### Fence and Deck Supply

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