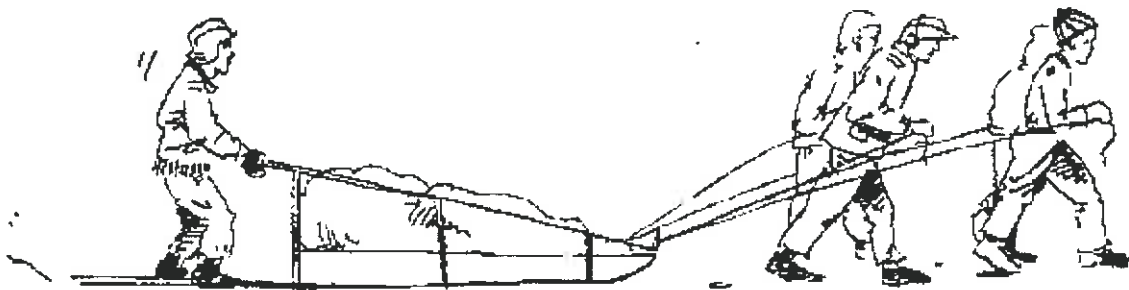


February 10-12, 2012

Evangeline Area Council

Presents...



Klondike Derby

Open to all Troops and will be held February 10-12, 2012. Plan to attend the ultimate skills competition set in 19th Century Alaska. Compete in 16 towns from Anchorage to Valdez and finish with a full out sled race! Your patrol does not want to miss this event!

The cost is \$10 per scout and includes the inaugural patch.

This is a must schedule event when you do your program planning!
See you on the Trail!

Welcome to the Klondike Derby!

What is a Klondike Derby?

In a Klondike Derby, Scouts act as the dog team pulling homemade sleds around a field course marked by stations named for towns or cities in 19th century Alaska. At each town the Scouts compete in exercises in problem solving or activity based events. The patrols will earn spendable “gold nuggets” while being scored on Scout skill and spirit.

General Objectives:

Each “dog team” of 6 to 8 Scouts (Patrol Sized) follows a course as outlined on a map given to the unit leader at registration. The map guides the teams around the sixteen simulated towns.

As they arrive at each town, the patrols should demonstrate their Scout spirit by giving their patrol yell or singing their song. They then encounter a practical problem involving basic Scouting skills. Scores and nuggets are awarded depending on how well the team works out the problem or demonstrates the skill. The derby will end with a sled race through a short course for time.

Following completion of the map and all events, the sled will report to the North Pole to submit their score sheet and map. While the mayors are compiling scores for placement, the teams can spend their nuggets at a Frontier Auction.

Teams, following dinner, will then proceed to the Council Ring for the awards and recognitions portion of the event.

How do we get involved?

Registration will be through the Double Knot System online. Upon successful registration, each patrol will receive a set of guidelines and rules of the race, a list of competition skills, and a suggested equipment list. All items needed for the day must be on the sled prior to departure from the North Pole. Be Prepared.

Klondike Derby 2012

<u>Site</u>	<u>City</u>	<u>Scout Skill</u>
A	Deadhorse	First Aid
B	Ketchikan	Compass
C	Juneau	Hatchet Throw (please do not practice this one) (focus on toten chit principals)
D	Kodiak	Orienteering
E	Icy Cape	Thin Ice
F	Coldfoot	Fire Building
G	Kayak Island	White Out
H	Fairbanks	Backpacking
I	Skagway	Pioneering
J	Valdez	Oil Spill
K	Fox	Map Reading
L**	Moose Pass	**Wilderness Survival
M**	Frostproof	**Sawz All (focused on wood tools)
N	Prudo Bay	Canoe Swamp
O	Nome	Height & Distance
P	Anchorage	Knots

****Wilderness Survival** and **Sawz All** will be combined for one 40-minute time slot. When patrol is finished with one station, they can immediately move on to the other.

All basic "scout skills" are straight from the **Boy Scout Handbook**.

Thin Ice and **White Out** focus on how well the patrol works together as a team.

2012 Klondike Derby Schedule

Friday

- 6-9 pm Troop check in at the North Pole (*bring your roster*)
- 6-9 pm Trading Post will be open at the North Pole
- 9:00 pm SPL & Scoutmaster meeting at North Pole
- 9:30 pm Mayor's Council meeting at North Pole (*for all mayors*)
- 10:00 pm OA Cracker Barrel and Chapter meeting at the North Pole
- 11:00 pm TAPS – all quiet in campsites. Get a good night's sleep!

Saturday

- 6:45 am Reveille
- 8:00 am Opening Ceremony – All sleds ready at the North Pole.
Don't forget your patrol flag!
- 8:20 am Derby begins – shot gun start (*all sleds in position and start at the sound of the horn*).....they will stay at each town until each sound of the horn
- 11:45 am LUNCH begins – All sled teams cook & eat lunch at their current town location. Give that town mayor a small sample of your lunch for judging.
- 12:40 pm Lunch ends and Derby resumes (*start at sound of horn*)
- 4:00 pm Derby ends. Return to campsite & prepare for sled race.
- 4:20 pm Sled races begin at North Pole
- 5:00 pm Dinner at campsites
- 6:30 pm Derby Auction begins at the Dining Hall
- 7:30 pm Klondike Derby Awards and Campfire at Amphitheatre (**wear Official Field**)
- 9:00 pm Scoutmaster, Mayor & Patrol Leader meeting at North Pole, to review the “roses and thorns” of the event.
- 11:00 pm TAPS – all quiet in campsites

Sunday

- 7:00 am Reveille & breakfast at campsites
- 8:15 am Chaplain Aides report to the Chapel
- 8:30 am Spiritual Reflection at the Chapel (wear Official Field Uniform)
- 9:30 am Camp clean-up and check-out

Morning Schedule

Minutes

8:20 – 8:30am	Travel	10
8:30 – 8:50am	Event #1	20
8:50 – 8:55am	Travel	5
8:55 – 9:15am	Event #2	20
9:15 – 9:20am	Travel	5
9:20 – 9:40am	Event #3	20
9:40 – 9:45am	Travel	5
9:45 – 10:05am	Event #4	20
10:05 – 10:10am	Travel	5
10:10 – 10:30am	Event #5	20
10:30 – 10:35am	Travel	5
10:35 – 10:55am	Event #6	20
10:55 – 11:00am	Travel	5
11:00 – 11:20am	Event #7	20
11:20 – 11:25am	Travel	5
11:25 – 11:45am	Event #8	20

Signifies when Horn is blown

Afternoon Schedule **Minutes**

12:40 – 12:45pm	Travel	5
12:45 – 1:05pm	Event #9	20
1:05 – 1:10pm	Travel	5
1:10 – 1:30pm	Event #10	20
1:30 – 1:35pm	Travel	5
1:35 – 1:55pm	Event #11	20
1:55 – 2:00pm	Travel	5
2:00 – 2:20pm	Event #12	20
2:20 – 2:25pm	Travel	5
2:25 – 2:45pm	Event #13	20
2:45 – 2:50pm	Travel	5
2:50 – 3:10pm	Event #14	20
3:10 – 3:15pm	Travel	5
3:15 – 3:35pm	Event #15	20
3:35 – 3:40pm	Travel	5
3:40 – 4:00pm	Event #16	20

Klondike Sled Project

By Steven Maxwell • Illustrations by Len Churchill

Cross-country sled races deliver adventure, endurance and a wilderness challenge. And these plans are your ticket to that world. This sled is specially designed for Klondike Derby races in which boys—not dogs—provide the pulling power. Even though this sled is fast and strong, you don't have to be a master carpenter to build it. Cost of materials is about \$100.

How to Use These Directions

The instructions are divided into four parts: Building the Runners, Installing the Floor, Adding the Rails, and Finishing Up. Read everything at least once before you begin so you know how it all fits together. Then focus on each section as you work. Also, be sure to read "Prepared for Safety," which follows. What's the point in building a Klondike sled if you get hurt in the process?

Building the Runners

The runners take more punishment than any other part of the sled. That's why they need to be made of tough wood. Ash is the material of choice here—the same wood used for snowshoes and old-time cross-country skis. It's tough and flexible, and the open grain holds wax well—an important detail that'll help win races.

If you can't find ash lumber where you live, oak, maple or hickory are good, too. Just don't use pine, cedar or any wood soft enough to be dented easily by your thumbnail. These are fine for other parts of the sled, but softwood won't last long as runners or runner blocks.

When professionals build dogsleds they cook the ends of the runners for about an hour in special steam cabinets, then clamp the softened wood to

form curves when it cools. Sound complicated? It's really not. Since you need to curve only the ends of your runners, you can easily make your own steam cabinet using short lengths of galvanized duct pipe and an electric kitchen kettle. The plans show how. Make sure an adult is on hand to help you.

There's another option for runners. The plans show how to slice partway through the ends of the runners to make the wood flexible without steaming. This is called kerf bending, and it works O.K., though it does weaken the runners. They don't look as cool, either. Use this method only if nothing else is possible.

The fastest, easiest way to get your sled on the snow is to use a pair of old downhill skis as runners. Even though they're usually made of fiberglass, skis can still be drilled and fastened easily to the rest of the sled. They're tough, too.

With runners ready, it's time to drill them for the No. 12 x 2-inch screws that fasten them to the runner blocks. The plans show where each block goes and how the screws are positioned. Because they're hardwood, you'll need to create pilot holes using a $\frac{5}{32}$ -inch-diameter drill bit, to ease the entry of the screw. The plans show how to use screws as they extend through the runners to mark the runner blocks for accurate drilling. Also see "Drilling and Gluing" for more help.

Installing the Floor

At this stage, you have two separate runners with four blocks attached to the top of each one. Now it's time to join these into a single unit using the four main floor supports. Cut these to length, then drill screw holes and fasten them to the runner blocks using glue and just one No. 10 x $1\frac{3}{4}$ -inch screw per joint. Even though the front floor support is the same size as the other floor supports, leave it off for now. The plans show how the edge of the front floor support needs to be angled a bit, but that's a job for later.

Pretty easy so far, right? Don't get too confident because there's trouble lurking ahead, something that could make your sled crooked if you don't avoid it. Luckily, there's a slick trick to do just that:

With the two runners joined by the four floor supports, measure the length of diagonal distances taken from the outer corner of one floor support to the diagonally opposite corner of another. The plans show how. If your growing sled is square, then these measurements will be equal. Trouble is,

DID YOU PAY?

These plans are available on the *Boys' Life* Web site (www.boyslife.org) as an Adobe Acrobat PDF file, for downloading. Cost: \$10 per copy. Payment is on the honor system. Failure to pay - whether for a PDF file, photocopy or any other duplication of the plans - limits the magazine's ability to create other exciting, professionally-designed projects (not to mention a lifetime of guilt, and a sled doomed to last-place finishes and certain structural failure). Please remit to: Boys' Life Snow Sled Plans, P.O. Box 152079, Irving, TX 75015-2079.

they're probably not going to be, though that's no reason to panic. Remember how you put only one screw in each joint? That lets you push and pull the runners until diagonals are equal, plus or minus $\frac{1}{8}$ inch. Once they are, the base of your sled is square. You can count on it! Now add the second

screw to each joint to lock everything in place. Then fasten the floor boards with glue and screws.

The plans include a close-up view of how the front floor support, floor boards and runners come together. Take a close look at this now. You'll need to use a hand plane to angle the leading edge of the front floor support so the floor support and runners are in full contact where they meet. This is the hardest part of the project, but even this isn't a big deal. The plans show the angle to be about 35 degrees, but it will vary depending on the curvature on the ends of your runners. When all looks good, clamp the front floor support in place and drive screws through the runners into it. More screws will be added later through the sloped top rail to secure the floor boards.

Adding the Rails

The sled's rail assembly is made of 8 uprights, 2 angled tops, and a hand rail. Like everything else on the sled, these parts fit together in strong, simple ways with screws and glue. Cut the four kinds of rail uprights you'll need now—two of each type—then fasten them to the runner blocks, straight up and down, with glue and two screws per joint. The rail uprights are listed longer than necessary so you can trim along the sloped top rails with a handsaw to remove a triangular block of waste after installation. Follow the plans for the location of these parts and fasten them now. You may be tempted to trim all the rail uprights now, but don't do it. Trim only the back rail uprights so you can install the rail handle, also using

screws and glue. Leave the other rail uprights until the glue dries.

Finishing Up

Your sled's looking pretty good by now, right? But there are still a few things to take care of. The plans show the two 5/8-inch-diameter holes you'll need to drill through the floor boards, behind the front floor support, for the tow rope. You should also sand the sharp corners off the rail handle and sloped top rails, so no one gets slivers. Painting or varnishing your sled is optional. It'll look better if you do, but it is a lot of work, and it won't make the sled last any longer. Whatever you do, don't coat the underside of the runners. See "Wax Works" below for a speed-demon trail-tip.

PREPARED FOR SAFETY

Woodworking is fun—it may even become your career one day—but there's one thing you must remember. Always be careful. You must wear safety glasses when using any wood-working machinery, even if an adult is helping you. And don't forget ear protection. Earmuffs or foam earplugs work fine. And if you're ever uncertain about how to use any tool, ask for help.

WAX WORKS!

You can build the best sled in the world, but it'll never win races unless you've treated the runners right. It's a make-or-break detail, and wax is the key. The best kind is cross-country ski wax—the hardest type you can find, rated for 30 degrees below zero temperatures. Rub the wax onto bare-wood runners (not varnished) when the sled's indoors, smoothing the surface with a piece of cork to get rid of the lumps. Your runners won't feel slippery after this, but that's O.K. Once they get outside, on the cold snow, they'll slide along the trail like a lightning bolt. And the guys pulling will certainly appreciate that. Just remember to let your sled cool down before setting it in the snow. Warm runners can melt snow, forming water droplets that freeze, making the runners rough and slow.

DRILLING AND GLUING

Glue and screws hold this project together, and both are easy to use if you understand a few key points. First of all, don't use ordinary white, yellow or brown carpenter's glue on this project. They're great for indoor projects but are guaranteed to turn to mush when they get wet outside. Even some brands rated as water-resistant on the label won't last long if the snow turns to slush. What you need is something called type II wood glue. It's weatherproof and available under brand names like Titebond II and Weatherite. Polyurethane glue works well outdoors, but it's more expensive. Drilling screw holes is always more accurate if you hammer a nail lightly into the wood before you bore each hole. This makes a little crater so the drill bit won't wander off the mark as the bit starts spinning. After drilling holes in the runners you'll need to flare out the bottom end with something called a countersink bit chucked into your drill. This creates a cone-shaped pocket for the screw head, so it doesn't extend below the underside of the runner and drag on the snow. Holes drilled in soft wood parts don't need to be countersunk because the screws draw themselves level with the surrounding wood.

Materials List

FOR THE RUNNER ASSEMBLIES

RUNNERS	hardwood 1/2"-thick x 3 1/2"-wide x 89"-long	2
RUNNER BLOCKS	hardwood 1 1/2" x 3 1/2" x 3 1/2"	8

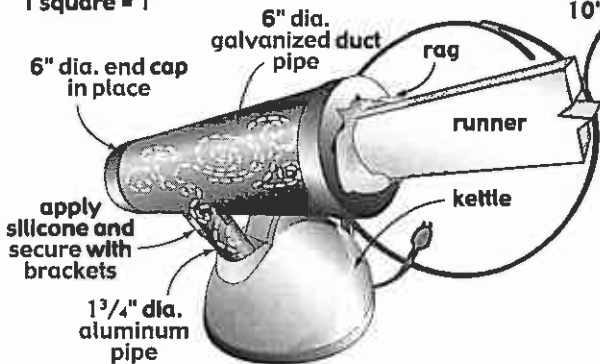
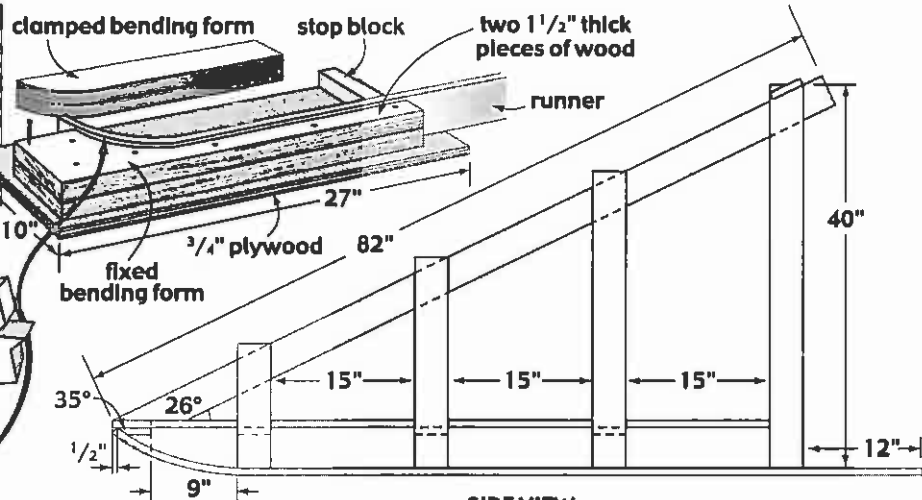
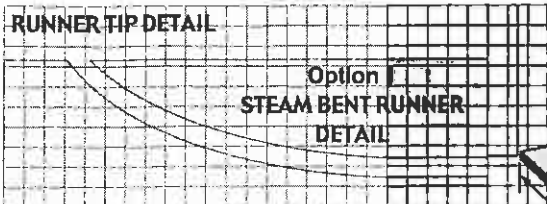
FOR THE FLOOR

FLOOR BOARDS	softwood 3/4" x 3 1/4" x 73"	5
MAIN FLOOR SUPPORTS	softwood 3/4" x 3 1/2" x 18"	4
FRONT FLOOR SUPPORT	softwood 3/4" x 3 1/2" x 19 1/2"*	1

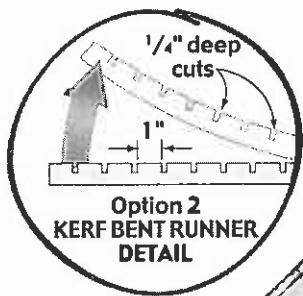
FOR THE RAIL ASSEMBLY

SLOPED TOP RAILS	softwood 3/4" x 3 1/2" x 82"	2
RAIL HANDLE	softwood 3/4" x 3 1/2" x 19 1/2"	1
FRONT RAIL UPRIGHT	softwood 3/4" x 3 1/2" x 14"	2
SHORT MIDDLE UPRIGHT	softwood 3/4" x 3 1/2" x 22"	2
LONG MIDDLE UPRIGHT	softwood 3/4" x 3 1/2" x 31"	2
BACK RAIL UPRIGHT	softwood 3/4" x 3 1/2" x 40"	2

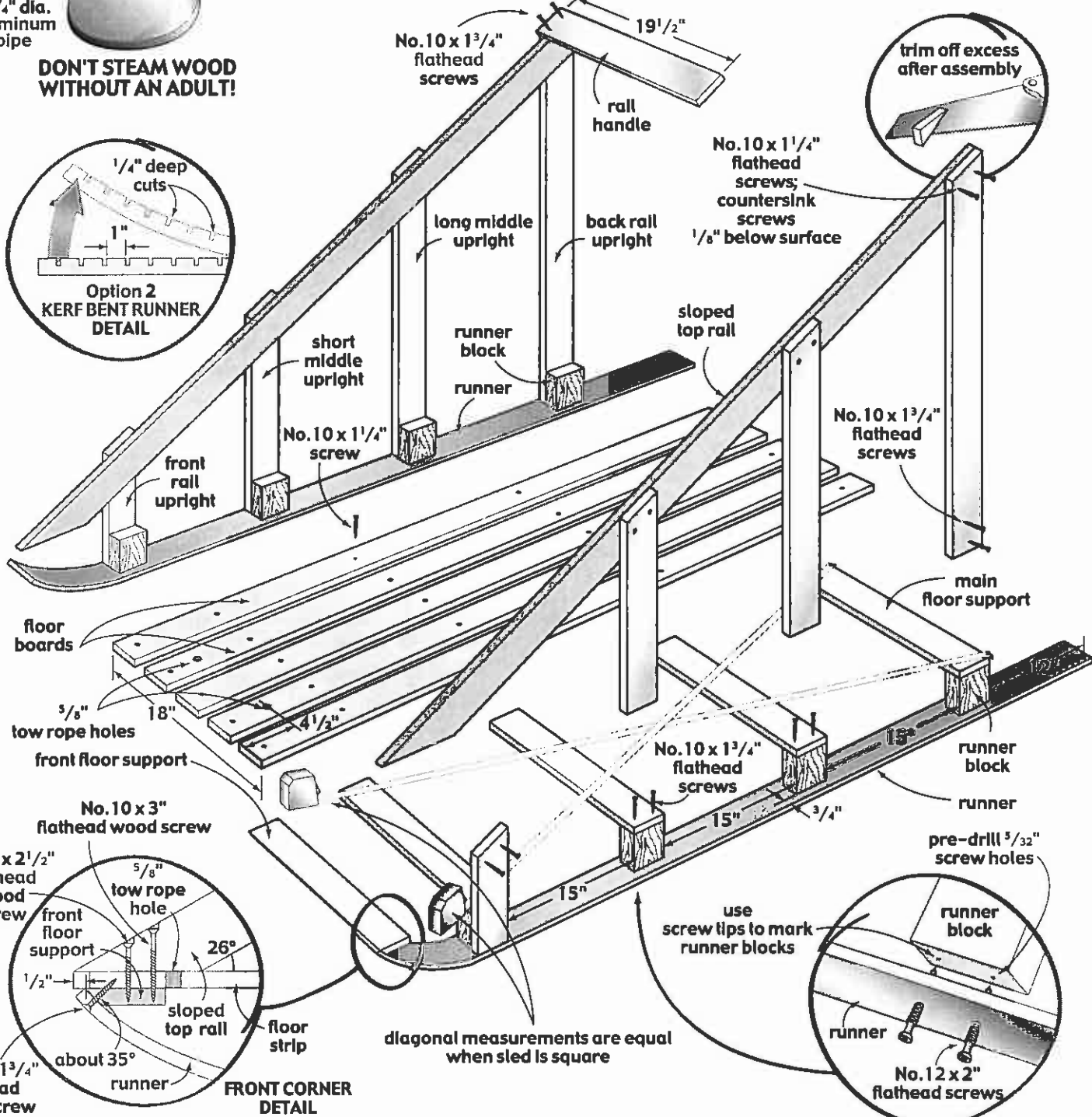
*Trim front edge to fit curve of your runners, about 35 degrees.



DON'T STEAM WOOD WITHOUT AN ADULT!



SIDE VIEW



FRONT CORNER DETAIL