



Figure 24: Dan and Hilo work on a truss in one of my hands-on courses. Note how the nail in hinge point helps position the flat surface that is used to trace the cut line onto the log. (This is sort of a portable C-jig, turned on its side.)

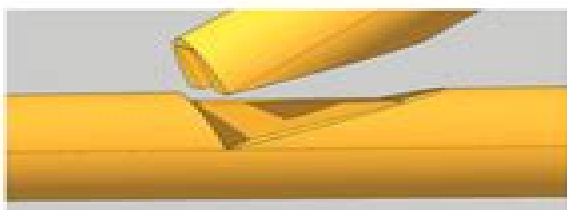


Figure 25: The hinge point is half way through the log. If we removed all that wood from the tie beam, it would be much too weak. So we leave a large block of wood — a tenon—in the beam.



Figure 26: Cleaning out half of a joint. Note the lines on the top that are for tenon layout.

for example). The tenons, and the mortises to match them, are laid out from the chalklines / centerlines that you snapped on every log in the truss.

Cutting the Parts

Whether you marked the cut lines with a C-jig, or a laser, or my metal hinging jig, now you score the cut lines on each part with a utility knife, to prevent splintering. Cut the truss joints with a chainsaw or electric chainsaw (for small logs), and plane the joints flat with a hand or electric planer, a grinder-sander, or a slick (large chisel) (Figure 26). Test often with a straightedge and framing square (Figure 29). All the surfaces at joints are flat planes, so cutting them and getting them trued up is quite easy—unlike cutting a coped / scribed truss notch with its concave hollows and fragile edges. You want substantial flat-on-flat bearing inside the mitered joints (not edge on flat bearing like log wall corner notches).

Half of the joints have mortises, and these are easier to cut and true-up: no tenon to block the testing. For these joints, cut the larger of the two bearing surfaces first, and completely finish it. Reconnect the chalklines across the end-grain surface you just completed. Only then should you start cutting the second of the two surfaces (Figure 27 right & Figure 28). If you cut both surfaces, but forgot to connect the chalklines after the first surface was done, then you'll discover that it's now very difficult to draw the centerlines and mortise boundaries.

Fitting & Bolting

Test fit the truss, with the truss lying down flat, but high enough off the ground that you can see how well the joints fit on both the top and bottom. Support the truss pieces a few feet away from the joints or you won't be able to see the fits (Figure 30). Use truck ratchet straps, or come-alongs and nylon slings, to tightly pull the truss parts together.

The joints usually fit nicely the first time. If not, there are several possible causes. If the lofting deck was not flat, level, or not stiff enough, the C-jig would not have lofted accurately. Could you feel a bounce when you walked on the deck? Another cause for a bad-fit is if a truss part moved after the first joint was lofted and marked. Unfortunately, that part will not fit, and might have to be done again with a new log.



Figure 27: Left: Jordan chainsaws a tie beam joint where the rafter tail will be placed.

Right: Travis planes a rafter tail joint. Once smooth, he will extend the log's centerlines over this surface, and then draw the mortise, centered on these lines, and cut the mortise.

Log Construction Manual

JE Gale



Log Construction Manual:

Log Construction Manual Robert Wood Chambers, 2011 Guide to building your own handcrafted log home including how to take naturally shaped tapered round logs and scribe fit them one to another so they look like they actually grew together in the forest This book has information on the Log Selection Rules and the author's method for choosing which log to use next There are also instructions for building hip and valley log rafters and roof trusses from full round logs how to cut state of the art compression fit saddle notches and how to use underscribing to keep fits tight over time along with step by step directions for laying out the sill logs for virtually any floor plans including hexagons prows etc and advice on scribing and cutting long grooves and corner notches [Log Building Construction Manual](#) Robert Wood Chambers, 2001 [Lincoln Logs Building Manual](#) Dylan Dawson, 2007-12 For generations children have loved playing with LINCOLN LOGS building sets and discovering just how inventive they can be The brainchild of John Lloyd Wright son of the famous architect these interlocking logs open up endless possibilities for kids anything a child can dream up he or she can build Plus every time kids place the logs in position they're enhancing their manual dexterity But there is one thing this wonderful plaything has never had a detailed manual that explains exactly how to create specific projects Finally it's here complete with an interactive easy to use CD ROM that lets children and probably more than a few grownups with fond memories go straight to the directions they need Blueprints lay out every step that goes into constructing a bank barn farmhouse firehouse frontier tower multiple cabins and much more **The Log Home Maintenance Guide: A Field Guide for Identifying, Preventing, and Solving Problems** Gary Schroeder, 2011-05-01 The definitive guide to the unique maintenance issues faced by log home owners America has hundreds of thousands of log homes from the Great Lakes region to the West from the Great North Woods to the Deep South Indeed several national magazines cater to the log home crowd for design and decorating ideas Now Gary Schroeder offers this world the first guide to the unique maintenance issues these homes present Many log home owners do further damage to their expensive homes by incorrectly treating their problems No more With detailed full color photos and clear instructions The Log Home Maintenance Guide will help you identify diagnose and resolve problems ranging from dry rot to carpenter ants The Log Home Maintenance Guide is an investment that will protect your investment No home repair section should be without it [The Log Home Maintenance Guide](#) Gary Schroeder, 2013-05-06 A guide to diagnosing and repairing the unique maintenance issues faced by log home owners *Complete Guide to Building Log Homes* Monte Burch, 1990 Discusses floor plans building lots log styles joinery log house building techniques insulation and alternative energy sources [Log Home Living](#), 2000-08 Log Home Living is the oldest largest and most widely distributed and read publication reaching log home enthusiasts For 21 years Log Home Living has presented the log home lifestyle through striking editorial photographic features and informative resources For more than two decades Log Home Living has offered so much more than a magazine through additional resources shows seminars mail order bookstore Web site and

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