Packing

	LIST OF MATERIALS
1	Assembly Kit (glue & sandpaper)
2	Cab (1)
3	Grill (1) Bag
4	Engine (1)
5	Truck Chassis (1)
6	Headlights (2) Bag
7	Radiator Cap (1) Bag
8	Running Lights (3) Bag
9	Upper Smokestack (1) 1/8" dia. x 1-1/4" long Bag
10	Lower Smokestack (1) 1/4"dia. x 1-5/8" long Bag
11	Hitch (1) 1/4" dia. x 7/8" long Bag
12	Fenders (2) Bag
13	Bumper (1) Bag
14	Diesel Fuel Tanks (2) Bag
15	Trailer Rails (2)
16	Trailer Bed (1)
17	Trailer Base (1)
18	Trailer Supports (2) 1/4" dia. x 1-1/4" long Bag
19	Staves (12)
20	Logs (6) 3/8" dia. x 11 3/4"
21	Wheels (18)
22	Axles (10) Bag

Glue upper & lower cabs together before packing.

MATERIAL LIST

	T x W x L		T x W x L
1 Upper Cab (1)	1" x 2" x 1¾"	12 Fenders (2)	1/2" x 1" x 1½"
2 Lower Cab (1)	1" x 2" x 1¾"	13 Bumper (1)	1/4" x 3/4" x 3"
3 Grill (1)	1/4" x 2" x 1"	14 Gas Tanks (2)	5/8" x 1¼" x 1¾"
4 Engine (1)	1" x 2" x 1½"	15 Rails (2)	1/2" x 1/2" x 12"
5 Truck Base (1)	3/4" x 2" x 5½"	16 Trailer Bed (1)	1/2" x 2" x 13¾"
6 Headlights (2)	7/32" x 1¼"	17 Trailer Base (1)	3/4" x 1¾" x 2½"
7 Radiator Cap (1)	7/32" x 1¾"	18 Trailer Supports (2)	1/4" x 1¼"
8 Running Lights (3)	7/32" x 1¼"	19 Staves (12)	3/8" x 3/8" x 2"
9 Upper Smokestack (1)	1/8" x 1½"	20 Logs (6)	3/4" x 11½"
10 Lower Smokestack (1)	1/4" x 1⅝"	21 Wheels (18)	1" diameter
11 Hitch (1)	[illegible]	22 Axles (10)	7/32" x 1"

TASKS FOR PUTTING LOGGING TRUCK KIT TOGETHER

TRACTOR

Cut grill to fit engine.
Drill holes in grill for headlights.
Drill hole in engine for radiator cap.
Mark FRONT on engine.
Glue upper and lower cabs together.
Sand assembled cab smooth and round corners.
Sand and round fenders.
Sand and round bumper.
Drill holes in chassis for axles (~~7~~). ~~17~~ 17/64"
Drill hole in chassis for smokestack.
Drill hole in chassis for hitch. —— Move hole farther aft to prevent interference
Mark TOP of chassis.

TRAILER

Drill holes in trailer bed for supports.
Drill hole in trailer bed for hitch. 9/32"
Mark on trailer bed where trailer base is attached. (Mark GLUE TRAILER BASE HERE)
Drill trailer base for axles (~~7~~). 17/64"
Mark top of trailer base GLUE THIS SIDE TO TRAILER BED.
Chamfer top outer edge and front end of rails.
Mark FRONT on rails (Matched set).
Notch staves and round the tops.
Check that trailer turning on hitch doesn't interfere with smokestack

MISCELLANEOUS

Cut headlight length to grill thickness.
Cut radiator cap to length.
Cut running lights in half.
Cut logs to length and chamfer ends.
Cut axles to length and glue on caps.
Drill 9/32" dia axle hole in wheels and paint black.
Drill ~~1/8~~ 9/64" hole in lower smokestack for upper smokestack.
Put glue and sandpaper in kit.
Cut trailer supports to length

SAND ALL PARTS BE3FORE PUTTING IN KIT.

Mark: "Kit Made by Grampa Bob

On truck chassis:

Move hitch pin farther aft to prevent interference of trailer bed with smokestack.

Big Timber Logging Truck

One of our favorite Tricks of the Trade veterans has created his own addition to our convoy of over-the-rug haulers. Who's next?

By Dick Dorn

Box for truck: 3⅝" x 3⅝" x 17¼"
Inside Dimensions

After building David Larson's two toy trucks presented in issues 32 and 35 of Today's Woodworker, I decided to branch out on my own and made a third eighteen wheeler to add to the series. My log hauler is built to the same scale and with the same types of details as the first two trucks, making it interchangeable with any of Dave's cabs and trailers.

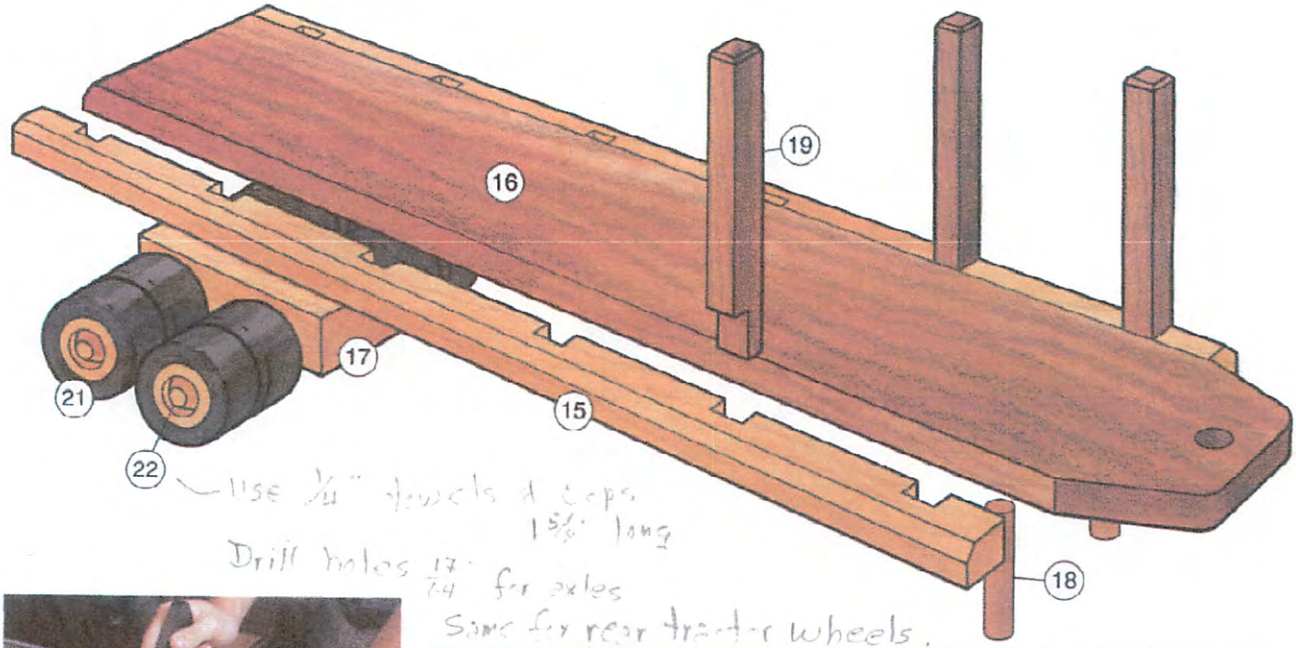
The log hauler takes about ten hours to build, and I used five minute epoxy for all the joinery, as Dave suggested in his articles. Other than the wheels, barrels and dowels (available in the hardware kit below), I used scrapwood for the project. Maple and walnut make a nice contrast, but any wood will do. I didn't glue the staves to the trailer because I thought they'd be more fun to play with if they were loose. If really young kids will be using your truck, however, I recommend gluing in the staves to prevent any chance that they end up in someone's mouth.

Cutting Timber

As with the previous two trucks, I too found it best to start with the upper cab (piece 1) since it determines the size and arrangement of so many other pieces. Cut a 1" thick x 6" wide x 1⅝" long piece of walnut, then follow **Figures 1, 2** and **3** and the full size pattern on the **Pinup Shop drawings and Patterns** insert (between pages 12 and 13) to cut the cab to shape.

Once the upper cab machining is completed, cut the lower cab (piece 2) to size and epoxy the two cab parts together. Next, cut oversized stock for the grill (piece 3) and rout grooves in it with a V-groove bit, as shown on the full size pattern. Set the oversized grill aside and cut an extra long piece of walnut for the engine (piece 4). Now cut the engine and grill to shape (following the full size patterns), and epoxy the grill to the engine. Epoxy this assembly to the lower cab.

Trace the pattern of the truck base (piece 5) onto some maple and cut it to shape with your table saw and a 1/2" dado blade **(See Figure 4)**. Bore the holes in the base with a drill press, then epoxy the cab and engine



Use ¼" dowels 4 caps
1 5/8" long
Drill holes 17 7/64 for axles
Same for rear tractor wheels.

Figure 1: After cutting stock to size for the upper cab, adjust your blade height and fence and make two cuts to define the inside edges of the posts.

Figure 2: Continue adjusting the fence about 1/16" at a time to make a series of passes for nibbling away the waste in the cab.

Figure 3: Lay out the posts and overall length of the cab, then support the stock with your miter gauge while clearing the remaining waste.

MATERIAL LIST

		T x W x L			T x W x L
1	Upper Cab (1)	1" x 2" x 1⅝"	12	Fenders (2)	1/2" x 1" x 1½"
2	Lower Cab (1)	1" x 2" x 1⅝"	13	Bumper (1)	1/4" x 3/4" x 3"
3	Grill (1)	1/4" x 2" x 1"	14	Gas Tanks (2)	5/8" x 1⅛" x 1⅝"
4	Engine (1)	1" x 2" x 1¼"	15	Rails (2)	1/2" x 1/2" x 12½"
5	Truck Base (1)	3/4" x 2" x 5½"	16	Trailer Bed (1)	1/2" x 2" x 13⅜"
6	Headlights (2)	7/32" x 1⅛"	17	Trailer Base (1)	3/4" x 1¼" x 2¼"
7	Radiator Cap (1)	7/32" x 1⅛"	18	Trailer Supports (2)	1/4" x 1¼"
8	Running Lights (3)	7/32" x 1⅛"	19	Staves (12)	3/8" x 3/8" x 2½"
9	Upper Smokestack (1)	1/8" x 1¼"	20	Logs (6)	3/4" x 11¾"
10	Lower Smokestack (1)	1/4" x 1⅝"	21	Wheels (18)	1" diameter
11	Hitch (1)	1" x 2" x 1⅝"	22	Axles (10)	7/32" x 1⅛"

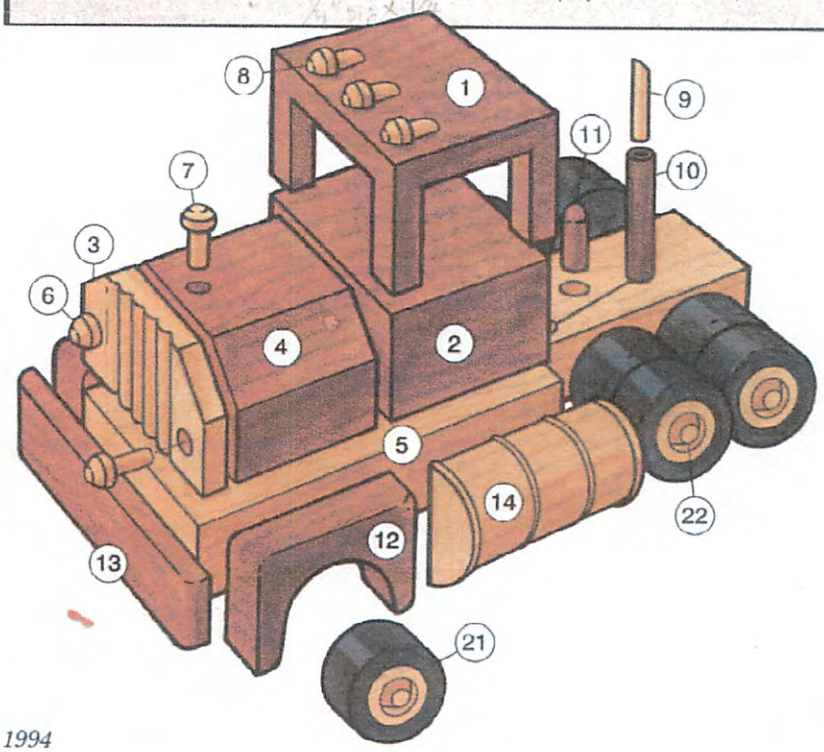


Figure 4: Use a 1/2" dado blade to cut notches for the rear wheels in the truck base. Make several passes, and use a set-up block to limit the cuts.

into position. Now drill 7/32" holes into the grill and engine for the headlights and radiator cap (pieces 6 and 7), which you can make from the extra axles that come with the hardware kit. Epoxy the pieces into the holes and cut three more axles to length for the running lights (pieces 8). To flatten one side of each running light, hold them with a pliers against your belt sander. Roundover the tail end of the lights by hand, and epoxy them to the cab roof.

Cut dowels to length for the smokestack and hitch (pieces 9, 10 and 11) and drill a 1/8" hole in the lower stack, as shown in **Figure 5**. Epoxy the upper stack into the lower stack and glue this assembly and the hitch into the holes in the truck base. Cut the top of the stack at a 45° angle, flush with the roof of the cab.

Figure 5: An easy way to center a dowel below a small drill bit is to first clamp scrapwood to your drill press table and drill a hole to fit the dowel.

Trace the pattern of the fenders (pieces 12) onto some oversized 1/2" thick walnut and drill out the wheel wells with a 1⅛" bit. Next, bandsaw the outside shapes and epoxy the fenders to the truck, making sure the wheel wells are centered on the axle holes. Cut walnut for the bumper (piece 13), sand its ends to the shape shown on the pattern, and epoxy it to the base and fenders.

Bandsawing the barrels in half for the gas tanks (pieces 14) requires a V-block jig made from a piece of scrapwood, as shown in **Figure 6**. Set your fence to cut the barrels about 1/8" off center, then clean the saw marks off the larger halves and epoxy them to the truck. Be sure to butt the flat end of the tanks tightly against the fenders.

Making the Log Trailer

The key to making the trailer is to get the stave holes spaced evenly. Rip maple for the rails (pieces 15) and layout the holes, as shown on the full size pattern, then install a 3/8" dado blade in your table saw. Raise the blade 1/4" and cut the dadoes in both rails at the same time while supporting the stock with your miter gauge.

Figure 6: Cut a V-groove in scrapwood and hot glue the barrel into the groove. The hot glue will hold the barrel steady while you bandsaw it in half.

Now cut walnut stock for the bed (piece 16) and bandsaw the angled front end, as shown on the full size pattern. Epoxy the rails to the bed, being careful to apply the epoxy sparingly so it doesn't drip into the stave holes. After the epoxy dries, plane the bed assembly smooth and rout chamfers on the back end and side edges.

Cut a maple block for the trailer base (piece 17) and drill the axle holes, as shown on the full size pattern. Epoxy the base to the underside of the bed, then drill 1/4" holes for the trailer supports (pieces 18). Cut two walnut dowels for the supports and roundover one end of each piece by hand sanding. Glue the supports into the holes.

To make the staves (pieces 19), cut several pieces of 3/8" thick stock to length, then cut a rabbet at one end of each piece with a 1/2" dado blade raised a hair over 1/8". Now rip the stock into 3/8" wide strips and check their fit in the trailer bed holes. Sanding the staves resulted in a perfect slip fit on my log hauler. Complete the staves by chamfering their top edges with a stationary disc sander or belt sander.

Cut dowels to length for the logs (pieces 20) and apply a couple of coats of an oil finish to the truck, logs, wheel hubs and axles (pieces 21 and 22). Don't coat the portion of each axle post that fits into the base holes as the finish will interfere with the gluing process. After the finish dries, mount the wheels on the axles and epoxy the axles to the truck and trailer bases. Be sure the wheels spin freely as the epoxy sets.

This third truck gave me a unique design for each grandkid —a real convoy. Since all the parts are interchangeable they can make up different combinations, and when they all get their engines running together it's easy to imagine that I've just pulled into a major interstate truck stop. ■

Mix around the truck cabs and trailers to create your favorite eighteen wheeler design.

er

Top View

Roundover ends

Front View

Front View

Upper Cab 1

Follow the sequence described on page 11 for shaping the cab.

Side View

Upper Cab 1

Running Light 8

Cut axles here.

Sand flat for gluing to upper cab (piece 1).

Upper Smokestack 9

Drill 1/8" hole for upper smokestack.

Lower Smokestack 10

Gas Tank 14

End View

Cut here, then sand to center line.

Logging Truck

Truck Base 5

Top View

Drill 1/4" diameter x 3/8" deep hole for hitch (piece 11).

Drill 1/4" diameter x 3/8" deep hole for lower smokestack (piece 10).

Drill a ~~1/4~~ 9/32" hole for the hitch (piece 8), then enlarge the hole a little with a rat-tail file.

Rail 15

Fender 12

Side View

1"

3/4"

1 1/2"

5 Truck Base

Side View

Drill ~~7/32~~ 15/64" diameter holes for axles (pieces 5).

3/16"

Be sure to center the fenders on the axle holes.

1 1/4" drill for fender well

Drill 1/4" diameter x 1/4" deep holes for the supports (pieces 18).

Trailer Bed 16

Engine 4

Drill ~~7/32~~ 15/64" diameter holes for the radiator cap (piece 7).

Grill 3

Top View

Front View

Drill ~~7/32~~ 15/64" diameter holes for headlights (pieces 6).

Front View

Side View

Stave 19

Side View

17 Trailer Base

Side View

Drill ~~7/32~~ 9/32" holes for the axles.

3/16"

Position trailer base (piece 17) here.

Chamfer

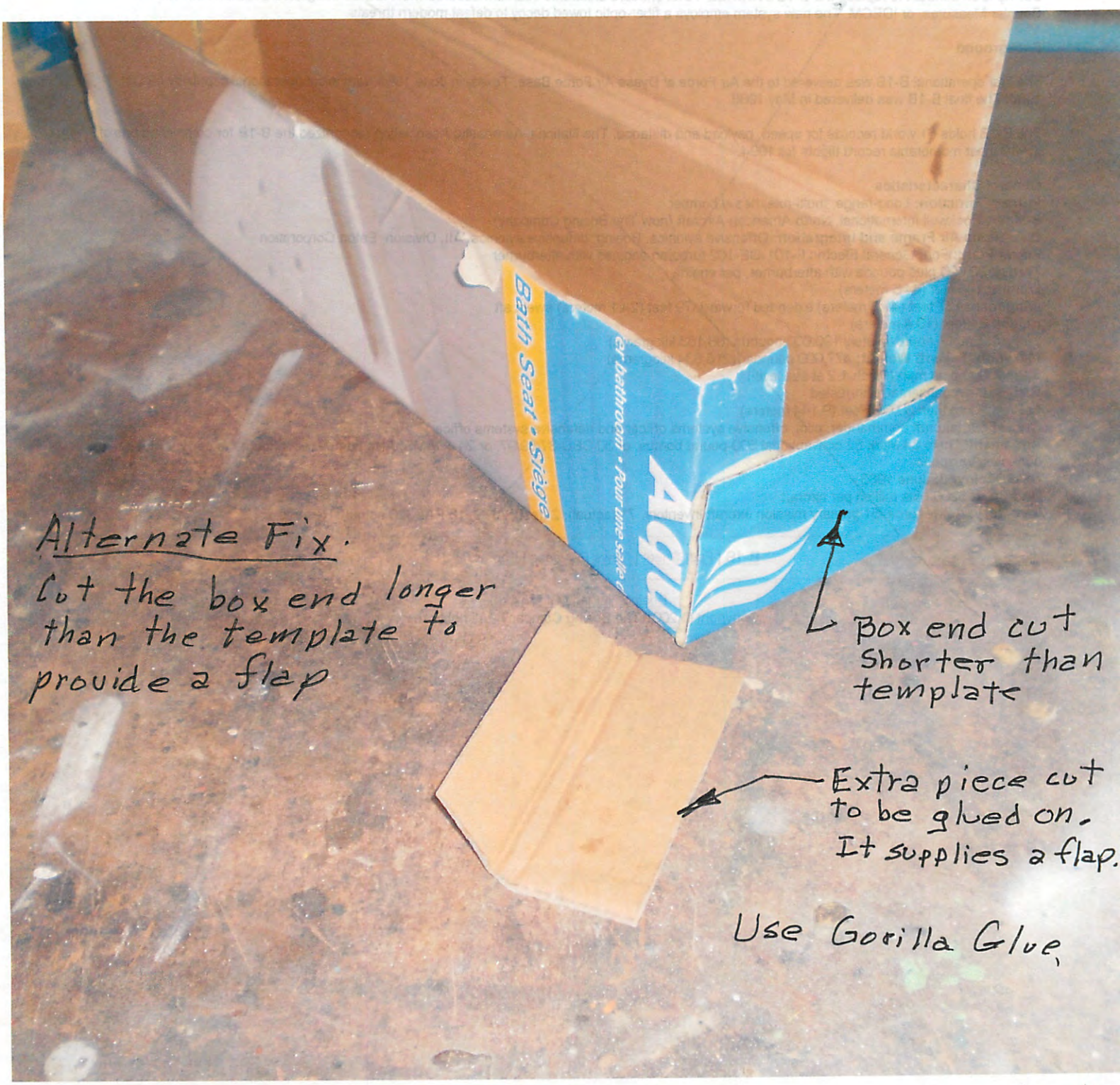
Chamfer

Logging Truck Box

Inside dimensions:

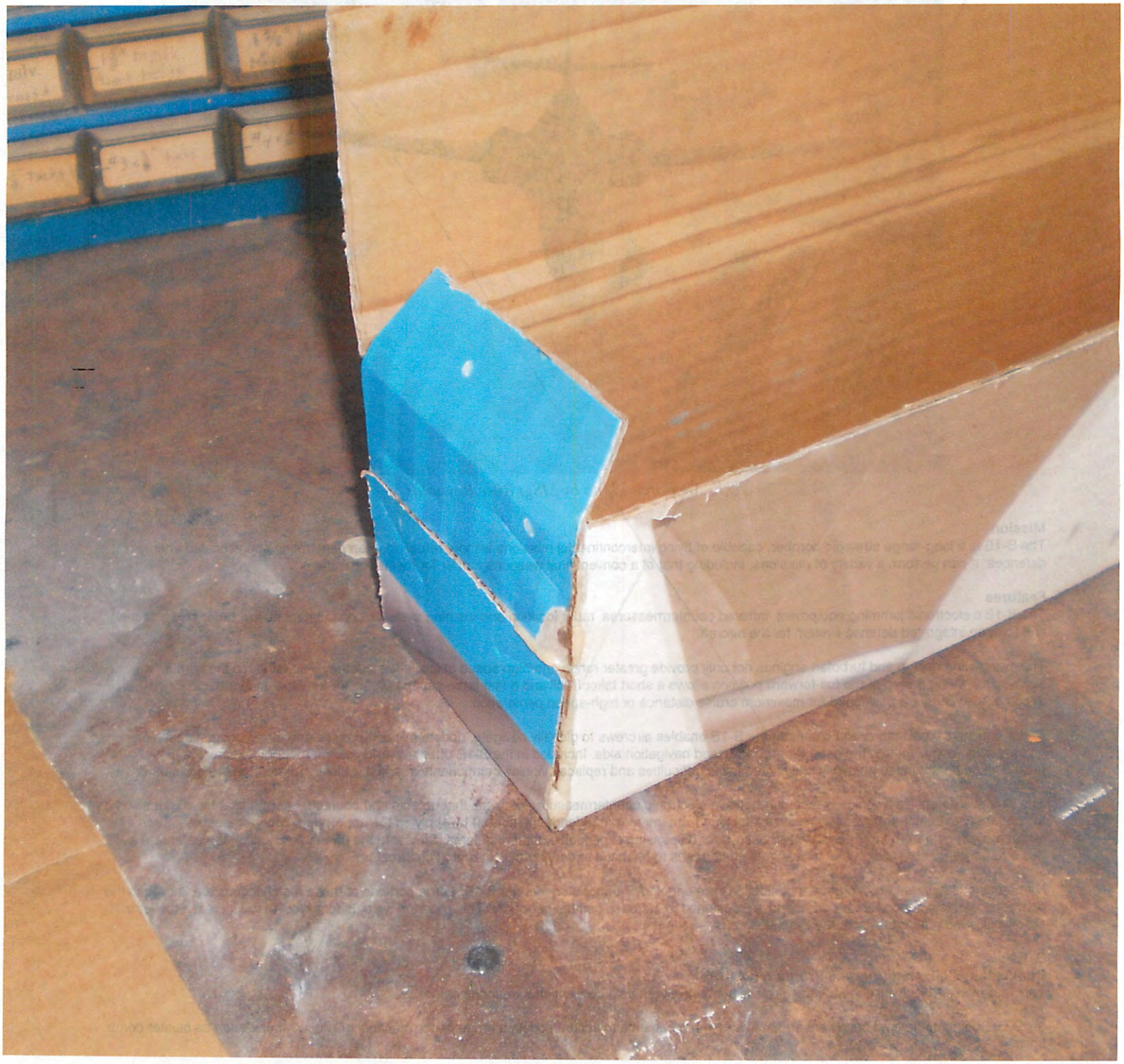
$17\frac{3}{8}" \times 3\frac{1}{2}" \times 3\frac{1}{2}"$

Instruction sheets for assembly are in the drafting paper portfolio next to the file cabinet.



The Logging Truck Box template does not provide for the box ends to have a flap to cover over the inside and seal the opening between box end and top when closed.

Extra piece glued in place with Gorilla Glue



Finished box with extra piece glued in place to provide a flap.

TEMPLATE

FOR

LOGGING TRUCK

BOX

Make as long as the bottom

Make this as long as the bottom

Bo Hom

Make as long as the bottom

Make this as long as the bottom

Bottom

Can get 1" thick Walnut

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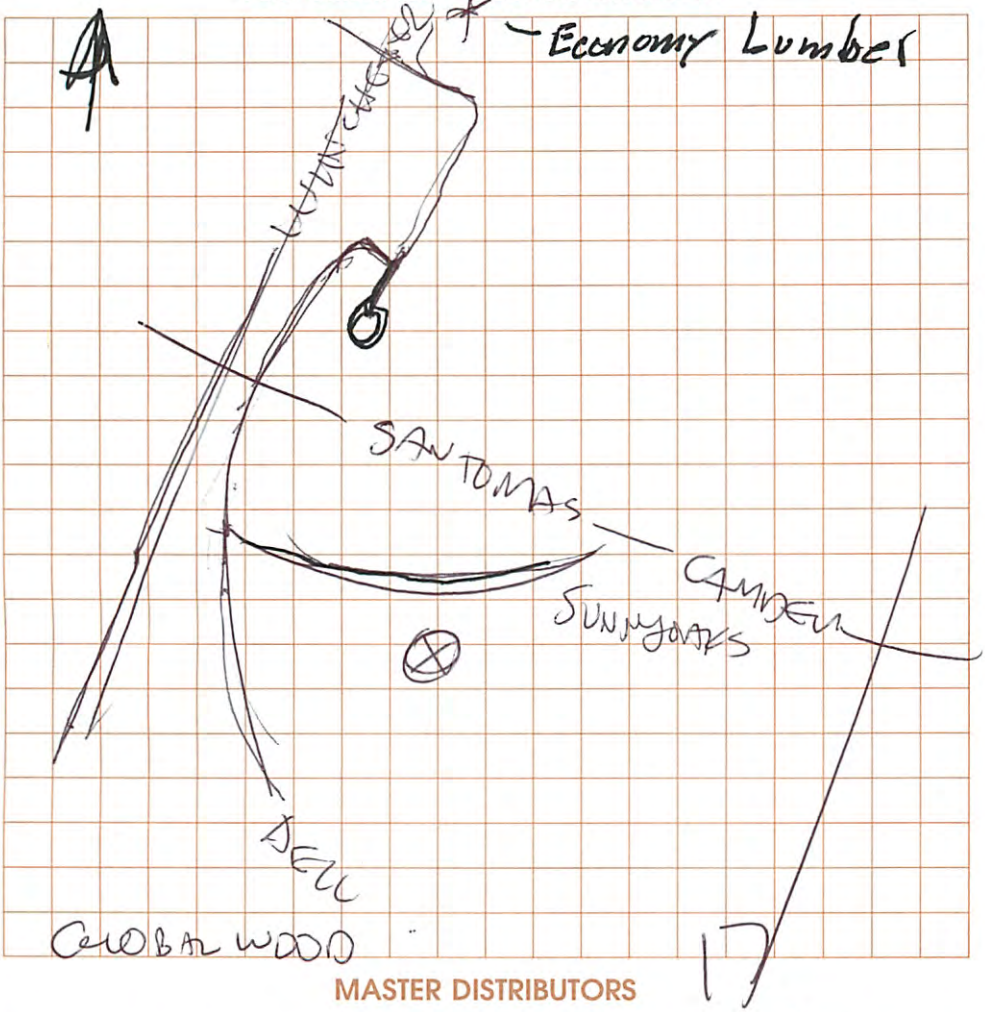

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