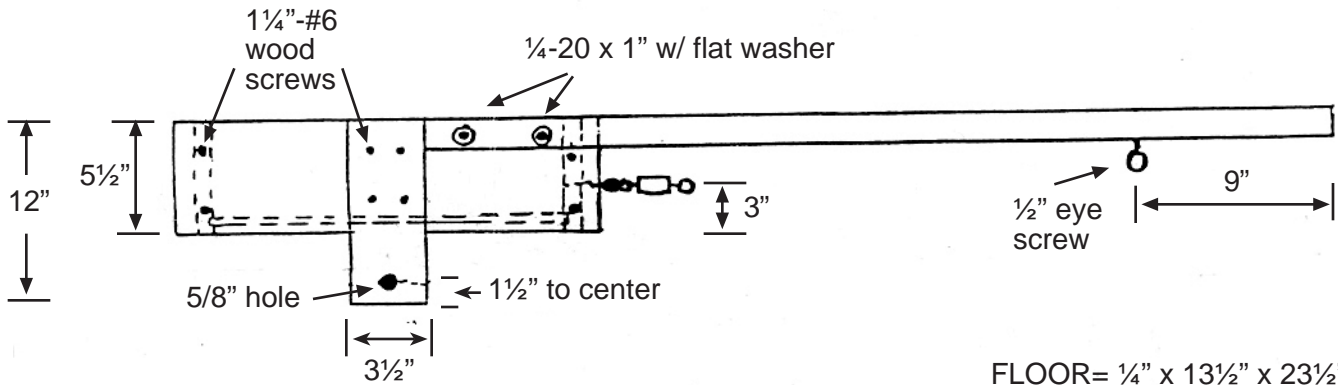
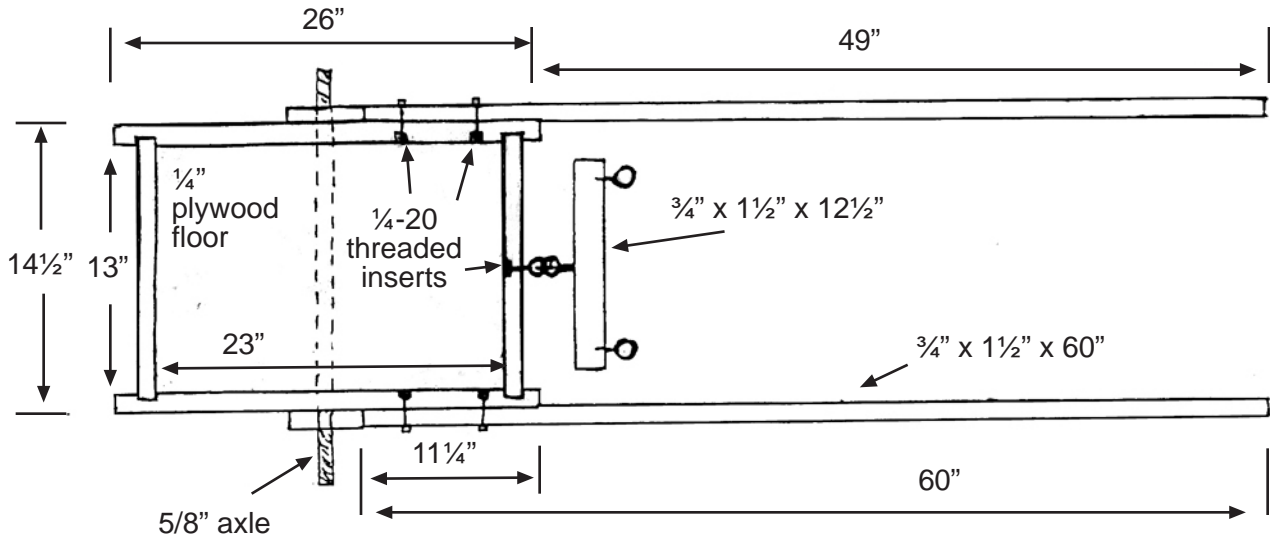
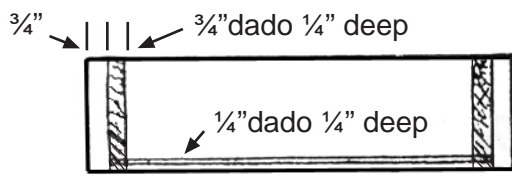


Low-Profile Draft Cart for Leonbergers

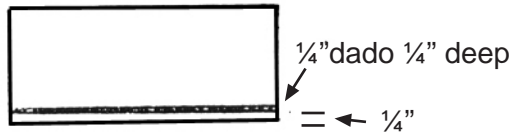
(sized for dogs ~30" at withers)



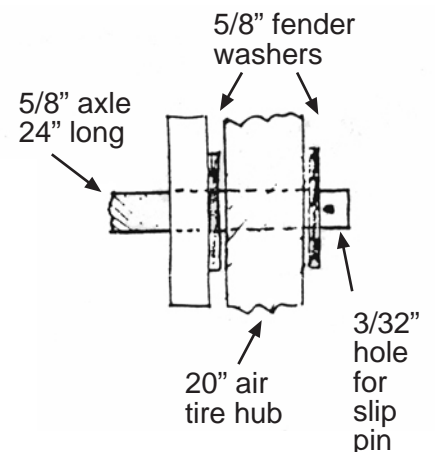
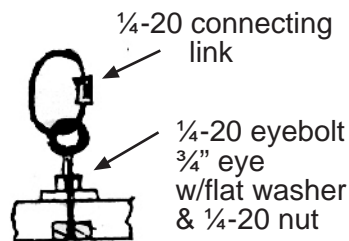
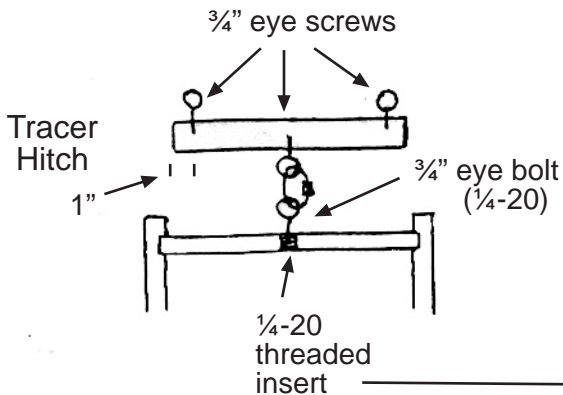
FLOOR = 1/4" x 13 1/2" x 23 1/2" plywood



2 @ 3/4" x 5 1/2" x 26"
(sides)



2 @ 3/4" x 5 1/2" x 13 1/2"
(front & back)



-- Parts List --

Low-Profile Draft Cart for Leonbergers

(sized for dogs ~30" at withers)

3/4" Oak

- 1 -- 1 x 6 x 78" (sides / front / back)
- 1 -- 1 x 4 x 24" (axle holders)
- 2 -- 1 x 2 x 60" (shafts)
- 1 -- 1 x 2 x 12" (tracer hitch)
- 1 -- 1 x 2 x 18" (support bar)

Hardware

- 1 -- 5/8" x 24" steel rod *
(drill 3/32" hole 1/4" from each end for slip pin)
- 2 -- 20" air tires for 5/8" axle (see notes below)*
- 18 -- #6 1 1/4" wood screws
- 2 -- 3/32" slip pins
- 4 -- 5/8" fender washers
- 5 -- 1/4" flat washers
- 4 -- 1/4-20 x 1 1/2" hex head bolts
- 1 -- 1/4-20 eyebolt -- 3/4" eye
- 3 -- eye screws -- 3/4" eye
- 2 -- eye screws -- 1/2" eye
- 1 -- 1/4" connecting link
- 5 -- 1/4-20 threaded inserts
- 1 -- 1/4-20 hexhead nut

*** A note on tires and axles:**

The height of the cart can be lowered by choosing smaller diameter tires, or by moving the location of the hole for the axle.

DogWorks has 16" and 20" diameter tires for 5/8" axle diameters, BUT the 5/8" opening is very precise, and typical steel bar stock at hardware stores is not. You can order a 5/8" axle from DogWorks that will fit their tires (and save a lot of frustration). This is the expensive route.

Another route is Northern Tool. They have 20" tires (item# 155121) as well as smaller tires (12" - item# 145126; 16" - item# 145124). These have 1/2" axle diameters, so they require small modifications to the cart plans (1/2" steel rod axle and 1/2" hole for axle). Northern Tool is MUCH cheaper than DogWorks!

DogWorks web site: <http://www.dogworks.com>
Northern Tool web site: <http://www.northerntool.com>

Extra Support Bar:

One optional modification is to add a bar underneath the cart as extra support for the 1/4" plywood. This piece should be 1 x 2 x 14 1/2" with 3/4" dado 1/4" deep on both ends, screwed into the bottom of sides of the cart (see web site for pictures).