The New England D-Ring Harness

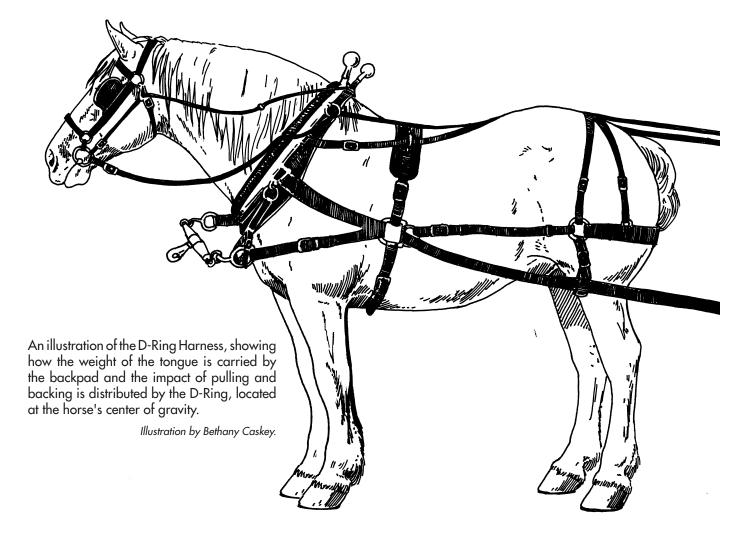
Converting A Western Style Harness

by Donn Hewes

As I have traveled to the North East Animal Powered Field Days in Tunbridge, Vermont, for the last three years, I have been checking out the New England D ring harness. The D-ring harness has many attributes, but the most prominent one is that it places all the tongue weight and tongue vibration on the horse's back saddle and away from the collar and neck. All the force of pulling, backing, and tongue weight go through the D-ring; which is located at the center

of gravity for the horse. The D-ring is held securely in place regardless of a high hitch or a low hitch; ensuring that the angle of draft from the front tug and hames is consistently 90 degrees. The D-ring is supported by the back saddle.

This harness has been in use for many years, and Les Barden, a lifelong New Hampshire horse farmer and logger, has done much to introduce the harness and its benefits to a wider audience. Several years ago, Les produced a video that demonstrated all of the harnesses' properties. This video is available on line at: meadersupply.com.



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Donn's Suffolk mare, Connie, models her Western Style harness before Donn converted it to a D-Ring.

My first reaction to the D-ring harness was, "That looks like a nice harness, but I already have six horses and mules in harness. I could never afford to change."

In the last few years I have been putting dolly wheels on my mowers and using a three-wheeled PTO cart, so most of my tongue weight issues had already been resolved. This past fall, I finally watched Les' video and saw one thing that I had not paid much attention to before. Even though the tongue weight is the big thing everyone talks about, the D-ring harness also does the



Donn purchased these parts from a harness shop in Ronks, Penn., enough to convert five harnesses.

same thing with all the vibrations and swinging to and fro. All this energy is absorbed through the harness and back saddle, and none of it goes to the neck. I have never really sored a horse or a mule neck, but I have certainly left my share of wrinkles that I watched carefully to make sure they healed. I started to wonder how much of this was due to the vibrations and tongue pulling on the collar in turns and corners.

I decided to try remaking my own harnesses into D-ring harnesses. While there are many little steps, the main one is cutting the tug and adding repair clips to each end so they would fit on the D-ring. This is



Checking the proper angle of the tug before measuring for the D-ring.

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Measuring from the point where the trace connects to the hame, Donn determines where on the trace he will cut. The market strap hanging from the backpad should form a straight line with the girth.

obviously not work for the faint of heart. The first step is to evaluate the harness for overall soundness. All of my harness is hard working farm harness of unknown origins, and, on every harness, I found at least one or two important repairs that I would have to make as I was converting to the new style of harness. It is important to remember that in the western style harness there is very little strain or weight on the market straps or back saddle. I sent two of my back saddles and one of my britchens to an Amish neighbor to have stitching

replaced. I also added a few copper rivets, something I do most winters anyway, just to hold the rest of the harness together.

The next step was to order parts. I chose to buy from Peach Lane Harness Shop, in Ronks Penn., as I had other business in Lancaster County. Most harness shops can help with these parts, although some will not be familiar with the D-ring harness. I spent about \$450 to convert five harnesses. This included new front and rear nylon hold backs (four per horse), steel repair clips with rivets (four



The D-ring opens with a bolt and will eventually acommodate six straps. Donn has marked with white tape where he will cut the trace, though he will triple-check his measurements before actually making the cut.

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The rivets are cut off with a set of nippers and the holding strap is pried off the tug with a screwdriver.







The measurement is checked again before Donn cuts the first tug with a utility knife (and lots of friendly encouragement).





Donn then used a vice to fit the clips to the thickness of the tug. The bolt at the top ensured the sleeve and harness bolt would later fit easily. He then put in the sleeve as he prepared to hammer in the rivets to hold the clip in place.

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The mild steel rivets are driven through the clips and tug, clipped off and hammered down.

per horse), two D-rings, and two large round snaps for the yokes. This also included four steel jockey yokes. Not to be confused with a jockey stick used to drive an extra horse, the jockey yoke is also used with any side backer harness and is a short yoke that each horse wears to snap into a neck yoke. For my new side straps, I bought nylon straps. I probably saved about \$15 per horse over buying leather. I now think I would have preferred leather on these straps. The rest of my harness is all leather.

In putting my new harnesses together, the main task was to ensure that the tugs were cut in the right place. Often the front tug will be too long and push the D-ring further back on the horse than it should be. After checking that the hames and tug angles are right (90 degrees) you can measure for the D-ring while the back saddle rests right behind the withers, like a riding saddle. The market strap (from the back saddle) and the girth should make a straight line. After a lot of advice and encouragement from my friends online at www. draftanimalpower.com, I cut the first tug. Putting the repair clips on was easy with good solid rivets, and they appear very strong. While the rear tug repair clip will go directly on the D-ring, the front tug is flipped endfor-end so the repair clip is now at the hames and the all leather end is on the D-ring, where it will conform to the shape of the ring more easily.



The front half of the tug is flipped, with the new clips being attached to the hame and the all-leather end is at the D-Ring.

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Some padding and new stitching is added to the backpad.

Finally, it is a matter of putting the harness on the horse and adjusting it. The D ring is different from most other harnesses in that the properly fitted harness when hitched will have the horse held lightly between pulling and pushing. The video is a good way to set up a team for someone that has not seen it before. Tension between the rear tugs and the front side straps creates the geometry that holds up the tongue. Taking the slack

out of the britchen and belly band ensures that the D ring stays where it belongs — centered on the horse. Once the horses are hooked, the front side straps are adjusted to hold up the tongue and take all the weight off the collar. The tugs are typically hooked tighter than with most other harnesses. Some folks like to just use a knee on the single tree while hooking the last tug tight, others will leave one front side strap loose and tighten that after hooking all the tugs.

As soon as I had one done I rushed out to try it, but, of course, they are part of a system. Just one horse in D-ring didn't really work that well. Now I have three horses and mules in D-ring in harness, and it is working better. I knew from the beginning that I might want to change the neck yokes I was using, but it turns out that I definitely will. For the last few years I have used a neck yoke with a heavy snap. These have worked very well, but, with the D-ring harness, they let the tongue hang too low. In the following months I will try to do a follow up that includes some homemade neck yokes for the D-ring harness.

Donn and his wife, Maryrose Livingston, keep a small grass-fed sheep dairy in Marathon, NY where he produces milk and artisan cheeses.



Chris Olliges drives Lady and Connie, both in D-Ring harnesses made by modifying Western-style harnesses.

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