

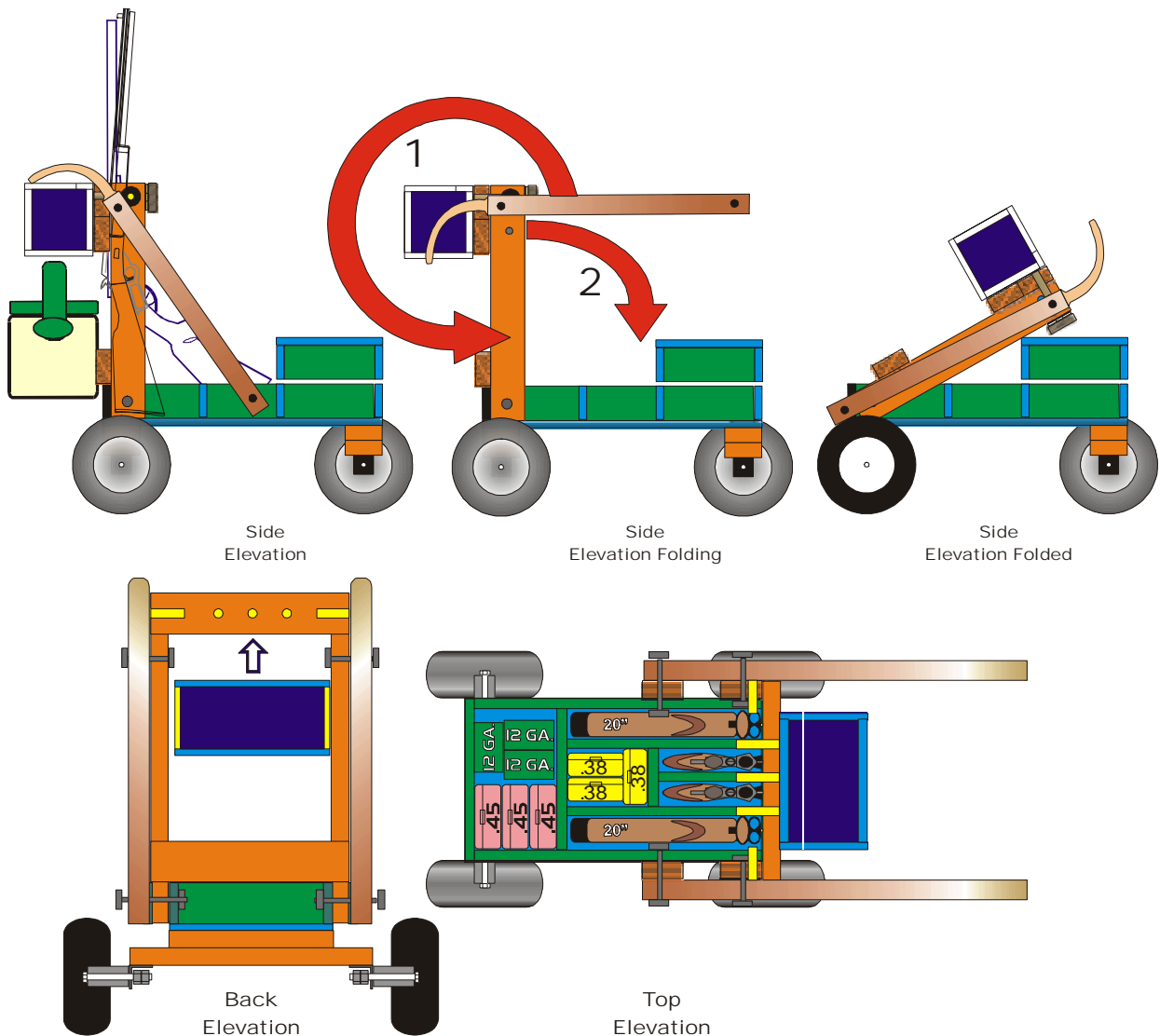
Rolan Krap's 4 wheel Folder

I evolved into this new cart design. I say "evolved" because I built and rebuilt it several times. This cart is useful when trunk space is limited or when rough conditions are expected. It offers easy access to ammo, seating, mounting for umbrella, room for 4 long guns (2 SxS, and two Rifles). One of the primary features of this cart are that SxS shotguns sit flush against the horizontal support so that they don't rub against the wood and mar the finish of both the shotgun or the cart.

These plans are free for all to use, but not for commercial builders. If you do use them I'd appreciate it if you'd seen a picture to steier@bellsouth.net.

Yours,

Rolan Krap's
SASS #24084

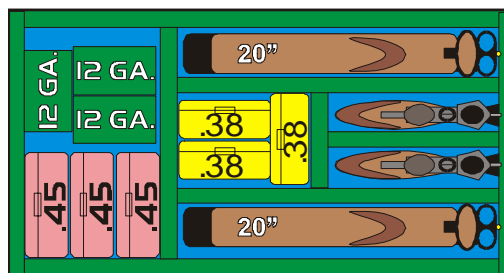


Materials Needed

- | | |
|---|--|
| 2 - 2"x4"x8' | 4" of 2" angle iron |
| 2 - 1"x4"x10' | 2 - Sash Locks |
| 1 - 1"x4"x6' | Other Misc. Screws |
| 1 - ½" sheet of Plywood | Optional Materials |
| 2 - ½"x4" Bolts, with washers and wing nuts | Extra wood to make box to mount across top, horizontal support for wallets, keys, smokes, and tools. |
| 4 - ½"x3½" bolts for wheels | 1 cabinet handle |
| 2 - 3/8"x 4" carriage bolts with washers and thumb screws | 2 - Hinges |
| 1 - 7/8" x 2' Dowel Rod | Paint or stain |
| 1 3/8" Dowel Rod | Screw Hooks 4x3 - 7/8 for hanging cooler |
| 2 - Plow Handles | Cork for padding |
| 4 - 10" Wheels | |
| 1 - ¾" hinge | |

Step 1 - Preparing the Lower Cart

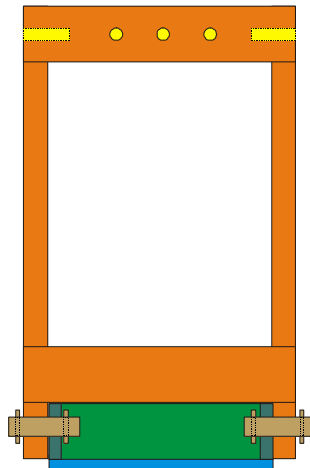
1. Cut a 3/8" piece of plywood 14"x28½"
2. Cut two pieces of 1x4 to fit the length of the plywood base 28½"
3. Drill and screw from the bottom of the cart.
4. Measure and cut the front and back to fit between sides. Drill, glue, and screw from bottom and from sides.
5. Measure inside diameter of base and cut a piece of 1x4 for inside partition. Set aside.
6. Cut two more partitions measuring 17 1/8" for shotguns.
7. Drill, glue, and screw the two shotgun partitions inside the gun cart. There should be 2½" inside the cart.
8. Mount the ammo partition at the end of the shotgun partitions. You should be able to get a screw in from both sides, the bottom and the front (into each partition).
9. Measure a partition of 1x4 to fit between the shotgun partitions. This area of the cart will be used to hold ammo. Drill, glue, and screw from the bottom.
10. Measure a partition to fit between the ammo partition that you just mounted. This will hold your rifle butts. Drill, glue, and screw from bottom and from the back of the cart. When you're finished, it should look like below.
11. Measure and cut two 2½" pieces of 1x4. Place shotgun in the rack, and place block at an angle behind butt of shotgun. Secure with glue and screws (from sides). This will keep the shotgun from closing.



Step 2 – Building the Gun Rack

The gun rack will hold the long guns upright and secure in the cart. It will also permit the SxS to remain open without marring the gun or the cart.

1. Measure and cut two 2x4 for vertical supports to 24".
2. Cut two 2x4 for horizontal supports. Mine measure 17 1/8".
3. The Top support should be flush to the top of the gun rack. The bottom support should fit 4" from the bottom as shown.
4. Drill, glue and screw vertical supports to horizontal supports.
5. Place gun rack against back of cart. Drill a 7/8" hole through the vertical support *and* the lower cart.
6. Cut a 7/8" dowel to 4" to act as a pivot.
7. Drill a 3/8" hole, 1/2" from one end of the dowel.
8. Cut four 3" pieces of 3/8" dowel to secure pivot.
9. Using a rubber or wood mallet, knock the pivot into each side. The retaining pin (3/8" dowel should be on the outside.
10. Drill another 3/8" hole inside the cart for the inside retaining pins. DO NOT INSTALL THESE YET! You will have to remove the gun rack for painting or staining.



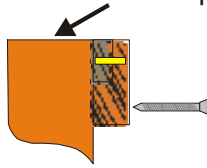
Step 3 – Gun Rack Retaining Pins

The 7/8" dowel will be used to secure the long guns inside the cart.

1. Two dowels will be mounted from the sides to secure the SxS. Drill two 7/8" holes, 2 1/2" down from the top as shown in the diagram above.
2. Place SxS in the gun cart so that the barrels are perpendicular to the horizontal support.
3. Insert a dowel rod into the hole until it rests against the shotgun. Mark, cut and insert the dowel back into the hole. Glue and screw from the front of the vertical support.
4. With the shotgun in place, mark the position for the dowel to secure the shotgun's other side.
5. Repeat steps 3 and 4 on other side for the second SxS.
6. Measure, cut and attach 1/4" cork to top of horizontal support. Any soft, material can be used such as leather or indoor/outdoor carpeting. Attach with upholstery tacks.
7. Place rifle in rack and mark for dowel rod to separate rifles. Drill, glue and screw from the bottom of the horizontal support.
8. Cut a piece of 1x2 (I used oak) too slightly longer than the width of the cart to hold a cross piece.

9. Take 2½" of the remaining oak from plow handles and cut a notch out for cross piece.
10. Drill 3/8" hole in each side of cross piece to mount dowel rods for retaining pins.

Vertical Support



Step 4 – Mounting the Handles

The plow handles are used to grip the cart and to provide support for the gun rack. Most Farm supply/Feed and Seed and some ACE hardware stores carry these handles.

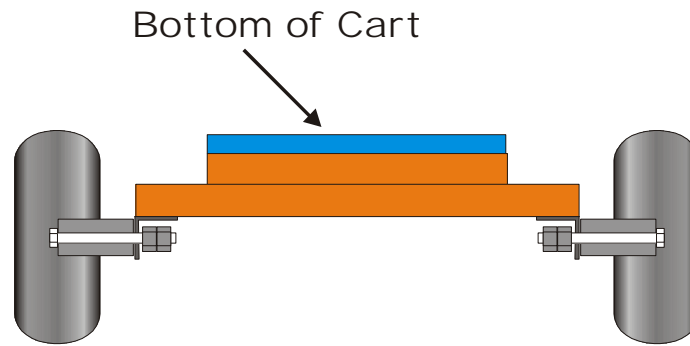
1. Measure and cut the handles so that a running a tape measurer from the outside, front side it measures 48" (see illustration below).
2. Cut two, 3" sections of the remaining plow handle. Mount to the bottom of each plow handle.
3. Drill a 3/8" hole in the center of the 3" block on each plow handle.
4. Drill a ½" hole in the center of the plow handle for mounting to the top of the gun rack. Measuring as illustrated below (from the top of the plow handle); the prototype is 20" on center.
5. With someone's help, hold the plow handles against the side of the cart. Mark the holes on the gun cart and the front of the cart.
6. Drill 3/8" hole in the front and a ½" hole in the gun rack.
7. Place washer on a 4½" lag bolt, and place through the inside of the gun rack. **Note:** It is important that the bolts are installed on the inside of the gun rack. Place 3 washers on the outside of the gun rack, followed by the plow handle a washer and a nut.



Step 5 – Mounting the Wheels

OK, this is the step that tests your shop. You really need a good drill press for this, or better a friend who has one.

1. Cut 2" of 2" angle iron. In one side of the angle iron, drill a centered ½" hole.
2. On the other side, drill four holes for #8 x ¾" wood screws. Repeat four times and set aside.
3. Cut two 2x4s to the width of the cart (the prototype is 14 1/8").
4. Cut two 2x4s to the width of the Gun Rack (the prototype measures 17 1/8").
5. Mount two of the 2x4s that are cut to width of the cart) to the front and back of the cart.
6. Center and mount the longer 2x4s to the cart.
7. Mount the 4 brackets onto the ends of the 2x4.
8. Mount the wheels to the cart using 3 ½" bolts. Use two nuts to keep the bolts on tight.



Step 6 – Building the “Possibles” Box

Optional – Building the box is not necessary; however, it is very useful to carry tools, keys and whatnots. This also is useful for covering the holes that you drilled in the horizontal support (of the gun rack). The box can be built to any length. These plans outline a simple box, but can be modified.

Note: Depending on how deep you make the box, it may be necessary to place another horizontal support for extra support. If this is required, make sure that it will not strike the sights on your rifles!

1. Cut two pieces of 1x4 14". These are the front and back of the box.
2. Cut two more pieces of 1x4 to 7".

Note: It is important to assemble the box so that the sides of the box are outside the front and back.

3. Attach the side pieces to the back piece.
4. Attach on top piece and both bottom pieces to the top and bottom of the sides.
5. Attach hinges to top of the cover and attach remaining 1x4 to create lid.
6. Mount box to horizontal support with screws.
7. Attach front cover of box.
8. Attach cover to top of lid.
9. Attach cabinet pull to top of lid.

Step 7 – Finishing Touches

Everything in this section is optional with the following exception...

When you're finished painting or staining the cart, take two of the 3/8" wood dowels and knock them into the holes in the gun rack pivot pins.

Here are some ideas:

1. Drill a hole in top and bottom of the Possibles box to hold an umbrella.
2. Mount a coat hook to the side of the plow handles to hold a canteen or vest.
3. Use remaining cork to line bottom of cart.
4. Another option is to build a cover over the front of the cart to both cover the ammo and provide seating.