

DIYDTG PLANS RELEASE #1

This is the 1st Release of the plans to get you started building.

There is no guarantee that you have the skills or tools to make this project work!

But this setup worked for me and is the setup in the video released.

These plans are a guide to help you make the DIYDTG. They are no way set in stone and you are welcome to try other printers, materials etc. to see if you can get them to work as well. I recommend you read these first before buying materials so you will know what is involved. Now Lets get started!

Some of the Items needed:

- 1) Epson C88 Printer (or what ever printer you want but the plans here are c88)**
- 2) 4x4 Sheet of 1/2 plywood (or whatever material you choose) & optional 2x2**
- 3) 4" Wide no skid tape (Lowes or Home Depot)**
- 4) Hot Glue gun and Glue sticks**
- 5) Drill and 13/32" drill bit**
- 6) Some common tools (screwdrivers etc...)**
- 7) 26" Drawer Slides (Home Depot or Lowes they may come in a 2 pack)**
- 8) Braid Nail gun (you may can use screws instead, if you don't have one)**
- 9) 5 or 6 of 1" washers**

Building the DIYDTG

I recommend using a tablesaw to make the cuts. The straighter the cuts the better. This makes it easier to line everything up and also makes it look better.

The Shell:

You will need to cut 3 pieces: 1 @ 11 1/2" x 26" (bottom) - 2 @ 5" x 26"

The sides go on the outside of the bottom, I used a braid nail gun to assemble it which made things easy to line up and quick. You can round the edges if you want to make it look better.

Your assembly should look something like this:



The Drawer:

You will need to cut 3 pieces: 1 @ 10 1/2" x 26" - 2 @ 1 3/4" x 26"

The sides mount on top of the bottom and looks like this:



Building the DIYDTG

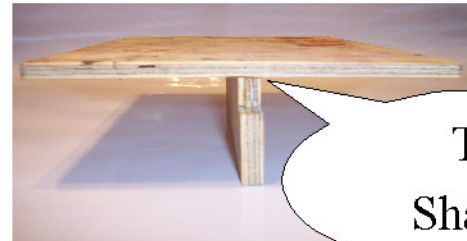
The Shirt Holder:

You can add your personal touch to this part. I made 2 different ones but you are welcome to modify it and make it better. I still haven't come up with a perfect design on this, but this will get you started. Each design mounts a little different.

1st one:

You will need to cut 2 pieces: 1 @ 13" x 9" and 1 @ 13" x 3 3/8"

Looks like this when attached together:



T
Shape

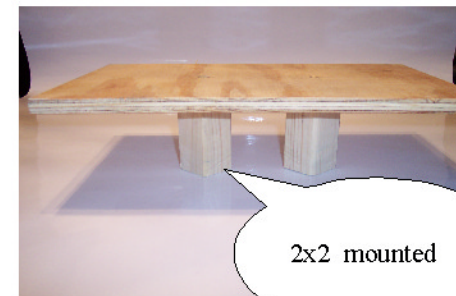
2nd one: this one requires a 2" x 2" stick:

You will need 3 pieces: 1 @ 13" x 9" and 2 @ 2" x 2" x 1 3/8"

Center the 2 x 2's - I mounted them about 3 1/2" from the end

Looks like this when put together:

I like the second design but either one will work.

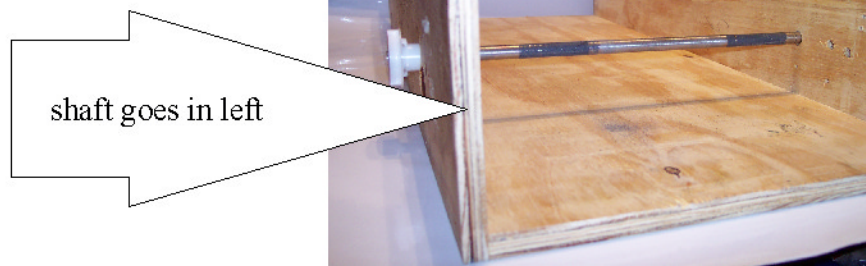
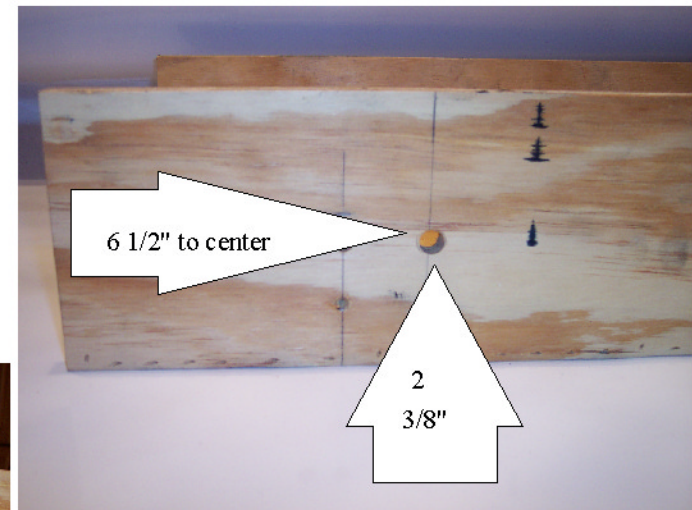


2x2 mounted

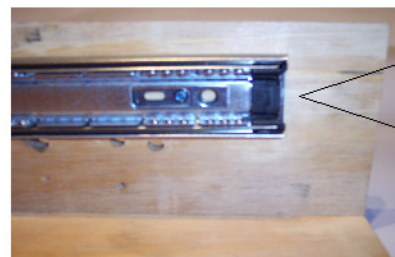
Assembly of the DIYDTG

Next step is to Drill a $\frac{13}{32}$ " Hole into the shell for the drive shaft which rolls the drawer. Pick one side to be the front. Now drill the hole on one side of the shell $6\frac{1}{2}$ " to center by $2\frac{3}{8}$ " as shown here:

Now repeat the same for the other side:
These need to be as straight as you can so the shaft rolls straight. Here is a picture with the shaft installed so you will get the idea:



Now mount the Drawer Slide onto the Right side at $1\frac{3}{4}$ " from the front and $\frac{5}{8}$ " from the top like this:

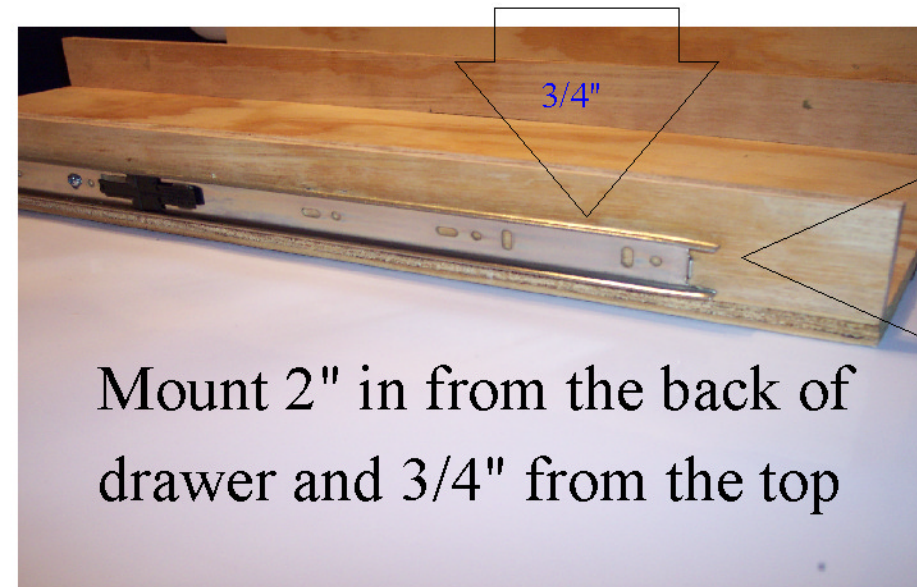


1 3/4" in



Assembly of the DIYDTG

Take the slide part out of the drawer slide for easier mount to the drawer like:



You can also mount the drawer after you mount the shaft in place if you want to skip this step for now.

These measurements may not be exact but they will be very close.

Mount 2" in from the back of drawer and 3/4" from the top

Now Apply the "No Skid" Tape to the bottom of the Drawer centering it from side to side and going down the whole length of the drawer like this:



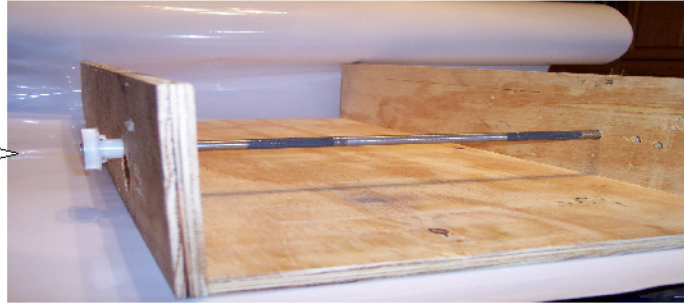
ASSEMBLY of the DIYDTG

Now if you already have the printer apart and the drive shaft out you can now assemble the drawer system. If not you need to take the printer apart first.

Please refer to the printer dissassembly guide.

Now put the shaft through the left side of the shell like this:

Shaft goes in left side...



Now putting the spacers on:

You will need 5 1" washers for the spacers and need to put the "c" clip back on the shaft. This keeps the shaft in place. You may need to add a small scrap piece of wood on the opposite side to hold the shaft up. When done it will look like:

5 1" washers & "c" clip



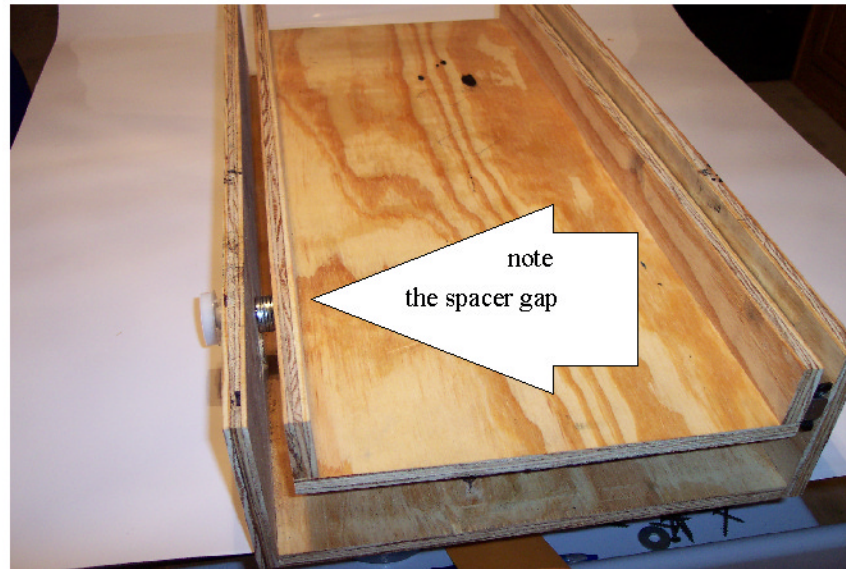
Scrap wood glued in place

Assembly of the DIYDTG

Now you can slide the drawer into place and make sure it moves smoothly.

It will look like this:

**Note the spacer gap on the right.
Make sure the drawer doesn't
ride on them, but sits beside them.**



Now for the test....You should be able to move the drawer freely by turning the gear on the shaft by hand. Make sure there is no binding for the full travel of the drawer slide. To slide the drawer back into place just lift up slightly on the left side and push the drawer back into place. Once you have accomplished a smooth travel then you can move on. If not, you may need to modify the shaft height or drawer slide height to make it work. The least amount of binding will make things run alot better later.

The next set of plans will cover taking the printer apart and mounting it on the drawer system. Please check back soon on www.diydtg.com for updates and I will be glad to answer any questions or take suggestions on improvement for this set up.

Now happy building and remember to wear you safety glasses!

Thanks,

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