

Spray paint shaker

by [heathbar64](#) on July 30, 2009

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Intro: Spray paint shaker

My arm was tired of shaking my paint, especially since most cans call for one minute of shaking. So... I had to make this shaker. It's made from what was on hand, so mostly wood and a few bits of hardware.



step 1: Can holder

First, we'll make the can holder.

Draw around the bottom of your paint can, and cut out two identical saddles. I used 3/4" plywood for all the parts.

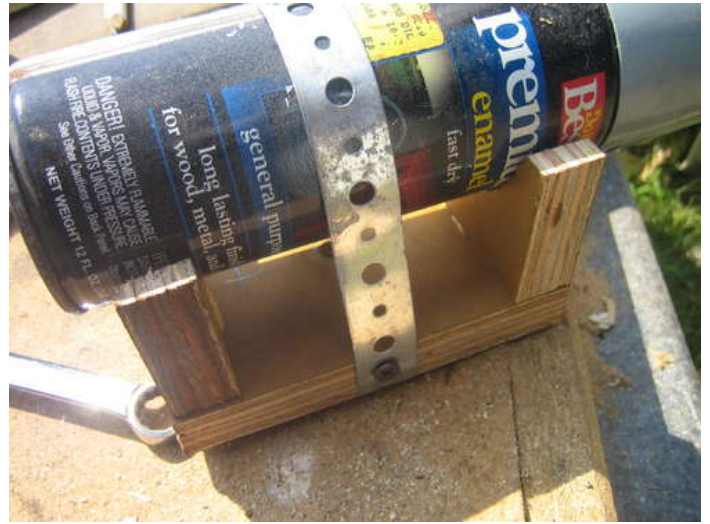
Then, cut out the base. Mine was five inches wide by three and a half inches, with a tab off the side for the connecting rod.

In the exact center, I drilled a hole to a close fit on my pivot bolt. I had a 5/16 bolt, so that's what I drilled. If you have a drill press, this would be a good time to use it. a nice square hole will insure that it doesn't wobble.

Now, glue and screw the saddles onto the base. I recommend pre-drilling since I'm screwing into the edge of the plywood, and I don't want to split it.

Last, we need to attach a strap to hold the paint can in place. Get yourself a piece of plumbers strap. and screw one end to the flat side of the base. Lay your can in the saddle, wrap the strap around it then mark and drill a 1/4" hole for a bolt to draw it up. Now with a 1/4" carriage bolt, fender washer, and wingnut, you can snug the can down.





step 2: The crank

For the crank, I used a disc of plywood mounted on a long carriage bolt.

I cut a disk about 2 1/2" in diameter. this is a little bigger than you really need, but it allows some adjustment.

Drill a hole in the center to fit the bolt snugly. then countersink to fit the nut flush.

You'll need to use a longer bolt than you would need so that the smooth unthreaded part is long enough. I used a 3/8 by about 12" carriage bolt, since that's what I had.

Cut the head off the bolt. screw a nut all the way up to the end of the threads, then install the disc. screw the other nut on and into the countersink. Now cut off all the rest of the threaded part so nothing sticks out of that side of the disc.

After this I took the bolt out and glued it into the disc with J.B. Weld. tighten the nuts before the glue dries.



step 3: The base.

For the base, I used a piece of 2x6 about 16" long.

Round the top corners of the 2x6

Decide where you want the components and drill a hole for each shaft. I made mine about 1 1/2 inches from the top edge. Again use the drill press for a nice hole square to the face of the board. Make these a nice snug hole.

Now, from the top edge of the base, drill two small oil holes. I countersunk these about 1/4" for a funnel like effect.

Now glue and screw this whole thing onto a piece of 3/4" plywood about 8"x16" for the base of the base. I held it about 1 1/2" away from one edge.



step 4: Assemble

Now to put the component's on the base.

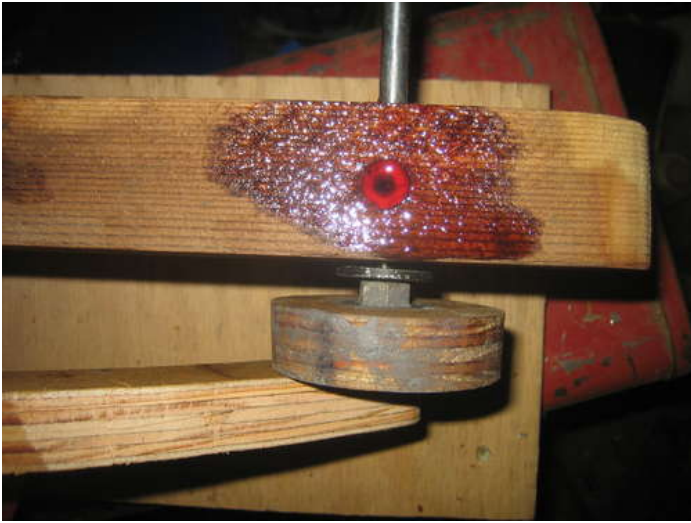
First find your bolt to mount the can holder. It needs to have an unthreaded part about 1 1/2" long. You may have to use a longer bolt to get this length and then cut off the extra.

Put a flat washer on this bolt, slide it into the appropriate hole in the base, then another flat washer and nut. Draw the nut up to snug, but let the bolt still turn easily in the hole.

Next put the can holder on the bolt, another nut and draw it up tight. You want it tight on the paint holder, and free in the base, so the whole thing will pivot smoothly.

Now put a flat washer on the shaft of the crank and slip it into the other hole in the base.

To finish, make a connecting rod. Cut a piece of wood to fit between the ear on the can holder and the crank. Mine is curved because, as it worked out, a straight one interfered slightly. I pre-drilled this and attached it with one screw on each end. Probably this will need to be improved later.



step 5: Try it

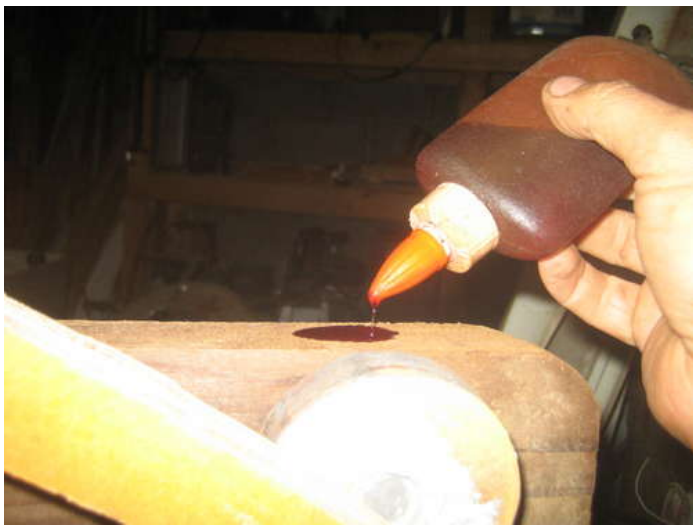
Now all that's needed is to put a squirt of oil in each oil hole,
Mount the paint can,
and chuck the crank shaft into your cordless drill.
Squeeze the trigger and shake it baby shake it!!!

Actually, you might want to turn it over by hand first to make sure nothing interferes, then and after spinning it, it might be necessary to adjust the position of the connecting rod in relation to the pivots to get the action you want.

check out the video @

<http://s61.photobucket.com/albums/h54/Heathbar64/?action=view¤t=paintshaker024.flv>

I'm not sure why but this is actually shaking much faster that it appears in the video.



Related Instructables



Zom-B Make-up
(slideshow) by eskimojo



Spray Paint T Shirt (T Shirt Hacks Contest)
by DaNerd11



Steampunk Pirate Gun Mod
by TribalDancer



DIY Tusken raider
(slideshow) by slimguy379



Cool paper G36
(slideshow) by mr. cool 384



CUSTOMIZE YOUR XBOX 360 FACEPLATE by dark cleric



Steampunk tank gun copper and brass with patina by solipsism



Paint Your Drum Kit With Rustoleum Brand Spray Paint by joepalumbo

Comments

[13 comments](#) [Add Comment](#)



heathbar64 says:

to my understanding, this site is about having fun with your brain So all of you who say how stupid or impractical this is just don't get it!! . No, Of course it's not practical, but it was fun to design and build. Of course I can shake paint cans the normal way with no problem, but this is way more fun. And as an added bonus, it firmly establishes my title of eccentric Mad Scientist in the minds of all my friends and acquaintances who see it.

Sep 13, 2009. 3:19 PM [REPLY](#)



I died with my head in a washing machine says:

this is point less stupid and its easy to sake acan but this is kinda cool :)

Sep 13, 2009. 5:53 AM [REPLY](#)



opc167 says:

I paint auto a lot as a hobby and just bought two cans of primer that had been on the shelf for months. I would usually take about 10 minutes if you mix them well. I'll have to manually mix this go-round, but my cusin and I will make one and update you on the mods.

Aug 21, 2009. 1:09 PM [REPLY](#)

Frist hit on this website. This is good stuff.



opc167 says:

Heck, I was trying to find such device to buy! This is cool.

Aug 21, 2009. 9:53 AM [REPLY](#)



heathbar64 says:

that's awesome. I'm glad somebody will actually make one of these. As I suspected, the screws serving as pivots in the connecting rod didn't hold up. What I would do instead is cut short pieces of small diameter tubing and bolt these to the crank and rocker. then let the connecting rod turn freely on the tubing.

Aug 21, 2009. 12:25 PM [REPLY](#)



king_zilla says:
a truly ridiculous idea

Aug 3, 2009. 11:51 AM [REPLY](#)

Great Job!

when i was a kid we used to use this thing called our hand...



heathbar64 says:
THANKS!!! (I think) Sometimes it's fun to build something silly, just to see if it will work.

Aug 3, 2009. 6:07 PM [REPLY](#)



rimar2000 says:
Is that you have not done much wrist exercise when you were a kid. ;)

Jul 31, 2009. 8:05 AM [REPLY](#)



Mr. BeanyMvBeanBean says:
Only your dominant hand...

Jul 31, 2009. 6:00 PM [REPLY](#)



lemonie says:
Truly great idea and build - there's a bad character in the URL, I can't watch the video.

Jul 30, 2009. 2:30 PM [REPLY](#)

L



heathbar64 says:
Thanks for the kind words. this is my first ible, so praise from a pro like you is high praise indeed!!! the link worked earlier, I'll have to check on it later.

Jul 30, 2009. 7:00 PM [REPLY](#)



crapflinger says:
not to knock lemonie (he is one of the funner folk to have around and makes some of the better comments)...but the fact that he has "pro" next to his name...means he payed for a membership...not that he's got a higher than average skill set

Jul 31, 2009. 5:55 AM [REPLY](#)



crapflinger says:
payed = paid

Jul 31, 2009. 5:56 AM [REPLY](#)
