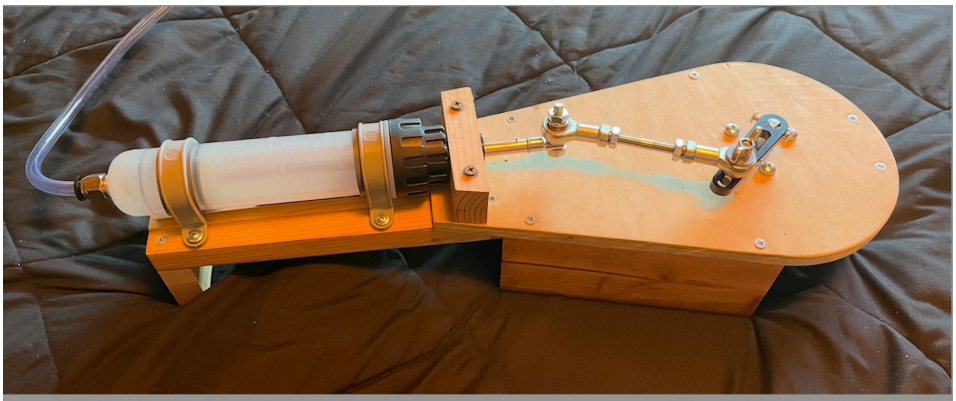
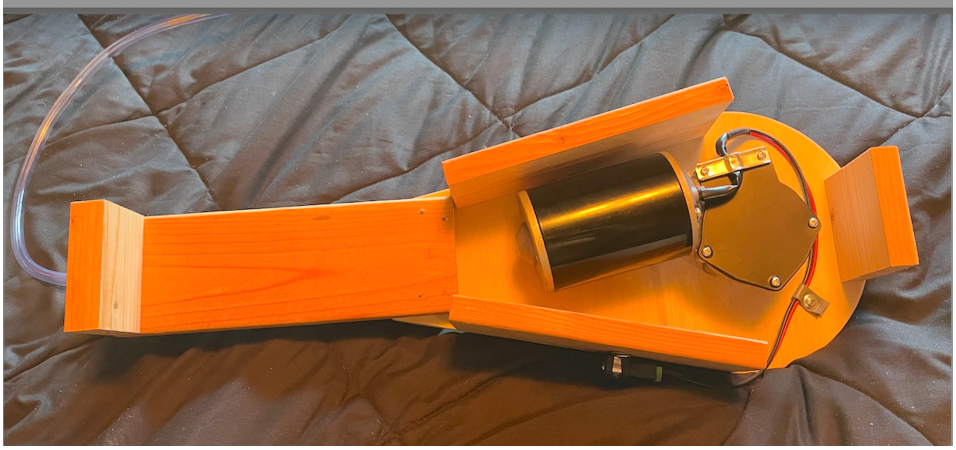
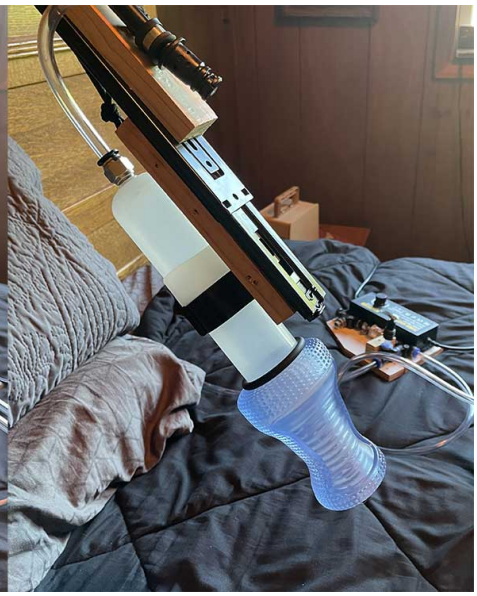
IRISH DREAM CREATIVE DIY SEX TOYS

# DIY Blowjob Machine
# By Irish Dream



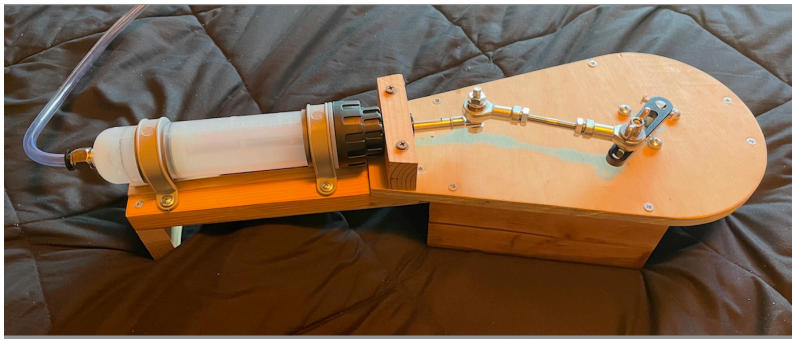




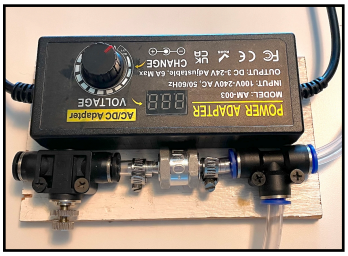
## Project Overview

A while back I decided to try to build my own Blowjob machine, I wanted to be able to lay back, close my eyes and just enjoy the sensation.I figured there had to be a way to make it from components that are readily available, just about everything I used I got from Amazon. The machine is made up of four main components, the pump, the receiver, the controller and the receiver carrier. I'm providing a complete parts list at the end of this document.

**The Pump:**
The pump consists of a motor, rocker arm actuator and a mechanic's extractor pump. I've mounted these elements onto a wood base. This might look easy enough, but getting everything aligned properly can be tricky.



**The Receiver:**
This device is where the sucking and blowing takes place. I attach masturbation sleeves to it which provides the the soft orifice for your cock to be sucked on. The receiver provides the space for your cock to move into as it passes beyond the sleeve. I have a variety of sleeves, each one provides a unique experience.




**The Controller:**
Provides the power and allows you to control the speed and the blow back of the unit. More on this later.

**The Receiver Carrier:**
This item is what makes this machine a hands free experience. You can use the machine without it, but it is much more pleasurable with. It is made from a flexible goose neck phone holder, a drawer slide, a piece of bungee cord and a steel spring clip that holds the receiver. The goose neck makes it easy to adjust the position of the receiver. You can hang it overhead, as I do, you can clamp it to a table or however you like.

**Here are some tips for the difficult parts of this build**

**Pump O-rings:**

Getting these to work well during extended use and to not cause too much resistance for the motor took a lot of trial and error. I ended up with O-rings that are smaller than what originally came with the pump and added some silicone bands beneath them to get them to seal enough to move air and yet loose enough as to not cause binding when the pump heats up.

For my pump I used these O-rings:
uxcell Nitrile Rubber O-Rings 38mm OD 30mm ID 4mm Width $5.89
https://www.amazon.com/uxcell-Rings-Nitrile-Rubber-Diameter/dp/B07GXC195V/ref=sr_1_1_sspa

And I used 2 of these bands in each seat to increase the diameter of the O-ring seats:
ONLYKXY 100 Pieces Silicone Cable Ties 1 inch/25mm Diameter Flat Rubber Bands $5.69
https://www.amazon.com/ONLYKXY-Silicone-Bands-Elastic-Elasticity/dp/B0DHRY95MK/ref=sr_1_2

I have been using the first set of these items for a while now and have yet to wear them out. But when they do, I have plenty of spares to replace them.

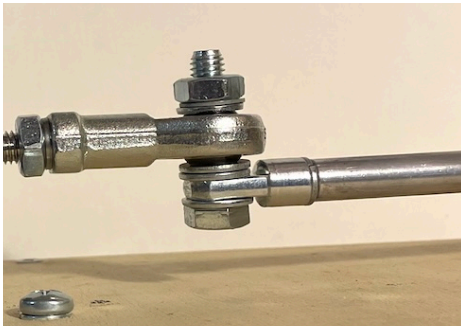
**Connecting the Rocker Arm to the Motor:**

The Rocker Arm connects the motor to the pump. The one I used comes with an 8mm hole for the shaft of the motor to go into. However, the motor I ended up with has a 10mm shaft, so I drilled out the hole with my drill press. I also ground the end of the motor shaft into a D shape to give the set screw a firm seat. You want this connection to be as snuggle as possible, any slop with create problems down the road. You can buy a Rocker Arm with a 10mm hole, but it is more expensive and I already had this one.

Note the Wing Nut, this is how you adjust the length of the stroke. The closer it is to the motor shaft, the shorter the stroke. In the photo, this is where I like it the best.

Part:
Rocker Arm Motor Arm Shaft Hole 8mm,Stroke 30-150mm $22.95
https://www.amazon.com/JQDML-Reciprocating-Actuator-Accessories-20-80mm/dp/B0D5V2BLL8/ref=pd_ci_mcx_di_int_sccai_cn_d_sccl_2_1/141-5064726-9102756?th=1

**Connecting the Pump to the Rocker Arm:**



A nice feature of this pump is the handle of the pump is held onto the piston shaft with a 6mm screw. Just pop the cap off the handle and you can unscrew it and remove the handle.

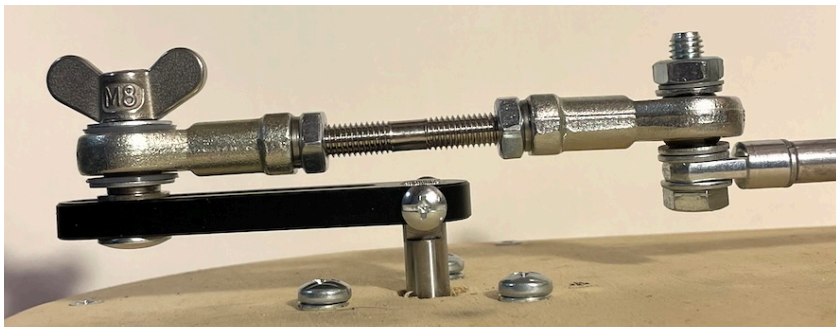
Next, I purchased a Gas Strut Connector that has a 6mm female threaded end and the other end has an 8mm hole to accept an 8mm bolt to connect it to the Rocker Arm.

I took a 6mm screw and cut the head off of it, threaded it into the Gas Strut Connector, added a lock washer and then threaded that onto the piston shaft tightening it down until the lock wash was set.

Here is the part I used for this:
uxcell Gas Spring Strut M6x8mm Joint Fitting Female Threaded Connectors $8.28
https://www.amazon.com/uxcell-Spring-Fitting-Threaded-Connectors/dp/B0D25PXRJ4/ref=sr_1_4

You could buy 6mm studs and skip having to cut the head off the screw, but that is what I had on hand and it was easy enough. I cleaned up the threads on the cut end a little and it works great. The resulting stud is about 1” or 25mm.

**Rocker Arm Alignment to Pump:**



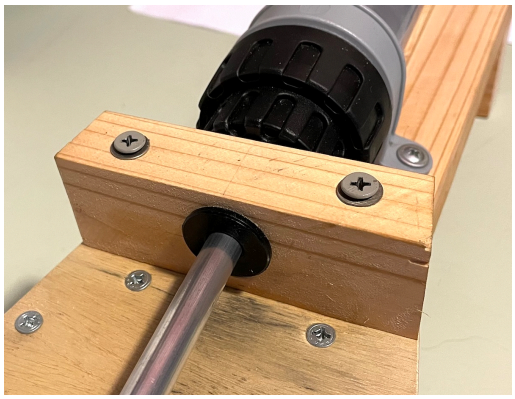

I would recommend that you first get your motor installed into the base and get the rocker arm attached to the motor. You want to keep that arm as level to the base as possible. This will determine the final height of the pump.

The measurements in my base assembly diagram (On last page) got my pump close to where it needs to be. But I had to shim the pump up a little. You want the pump to be level with the base.

Pull the piston shaft out of the pump over the base and measure its height from the base at the end and next to the pump to check it for level. Next, make sure the pump shaft is pointing directly at the motor shaft.

Once you have your pump height  and alignment set, you can now move on to setting up the Bearing Block.

**The Bearing Block:**



In front of the pump I have created what I call the Bearing Block. This is necessary to keep the piston shaft in alignment from the lateral forces of the rocker arm. I have a nylon bearing installed within the block that is the correct diameter to accept the piston shaft, 8mm.
I made the block out of a piece of wood 1x2 about 3.5" long. You must take great care to get this as perfectly aligned as possible. I held the block next to the piston shaft and marked the center point of the piston shaft on the block and then drilled a hole the same diameter as the outside of the bearing so it just squeezes into it. To mount this assembly to the pump base, I drilled two oversized holes into the block to accept the wood screws with flat washers on the top. I did this to, one, make it easier to disassemble when needed and two, to keep from splitting the wood block.

Here's the bearing I used:
Harfington flanged sleeve bearings 10.5mm $8.49
https://www.amazon.com/HARFINGTON-Flanged-Sleeve-Bearings-Bushings/dp/B0C3C1B8YM/ref=sr_1_2

**The Receiver:**

I made my Receiver from the same hand pump that I used for the pump. I cut off the threads that the cap screws onto leaving the outside rim, which helps to keep the sleeves on it. I then sanded the inside rim nice and smooth so if my cock happens to run into it, it won't hurt.


Note: If your cock has a diameter larger than 1 5/8" (40mm) at the head or mid shaft, you should consider a larger cylinder to use for a receiver. (And you are a blessed man!:)

On both the Receiver and the Pump, I replaced the original quick connectors with 3/8” quick connectors. These work great with the tubing I use to connect the pump to the controller and then on to the receiver.

In the photo above, you can see two bands on the cylinder. The lowest one is a cock ring that I use to hold thin walled sleeves in place. The upper one is to keep the receiver from slipping in the steel spring clip on receiver carrier.

Another use for these is on the pump, I put them on the pump cylinder under the pipe clamps that hold it to the base. That makes for a solid connection.

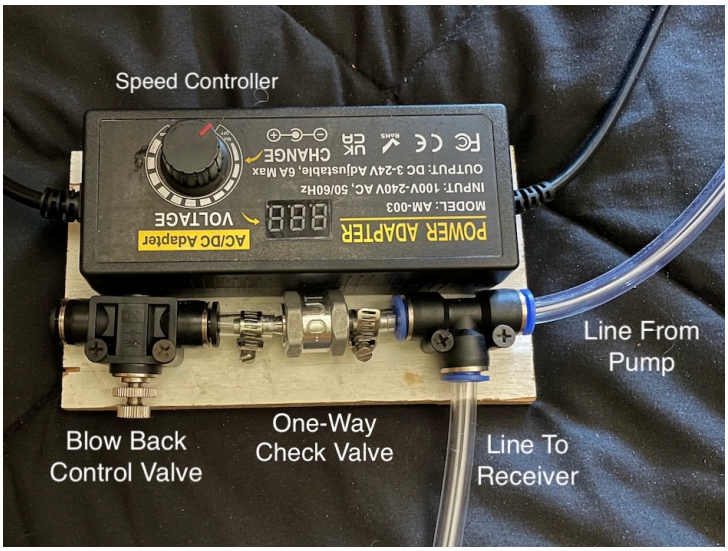
Here is the part I used for the Pump and the Receiver:
Thorstone Automotive Fluid Extractor Pump $11.97
https://www.amazon.com/Thorstone-Automotive-Extractor-Syringe-Evacuator/dp/B0B27SKZ4V/ref=sr_1_7

The Quick Connectors:
TAILONZ PNEUMATIC Male Straight 3/8 Inch Tube OD x 1/4 Inch NPT Thread Push to Connect Fittings $6.99
https://www.amazon.com/TAILONZ-PNEUMATIC-Straight-PC-3-8-N2/dp/B08867KZZ9/ref=sr_1_1_sspa

The Silicone Bands:
Grifiti Band Joes 4 Inch 5 Pack Assorted Colors $9.98
https://www.amazon.com/Assorted-Chemical-Resistant-Wrapping-Exercise/dp/B00IFMBL9Y/ref=sr_1_9

**The Blow Back Controller:**

I found that if I went straight from the pump to the receiver, there was too much air coming out of the pump on the blow cycle, causing problems with the functionality. So I came up with this. It starts with a T to which I connected a one-way check valve. It allows air to blow through it but will not let air suck back through it. To say it another way, on the blow cycle, air is escaping, reducing the blow back, but on the suck cycle, it closes.



After the check valve I added an Air Flow Control Valve. With this I can adjust how much air is escaping on the blow cycle. I start off with this valve wide open so the receiver is mostly sucking, once I'm fully erect, I can close it down until I'm getting the optimum stroke on the blow cycle.

Parts:
EVIL ENERGY 5/16" Fuel Check Valve $9.99
https://www.amazon.com/EVIL-ENERGY-Return-Petrol-Aluminium/dp/B07ZB42CGT/ref=sr_1_1_sspa

Pneumatic SCF Series 3/8 Inch Tube OD Air Flow Control Valve $14.99
https://www.amazon.com/VETLEY-Pneumatic-Control-Valve-Controller/dp/B09WMR7QV7/ref=sr_1_1_sspa

**Buying the Motor:**

It can be intimidating trying to decide what motor to buy, it is the biggest expense in this project. I started out with a smaller one than what I'm using now as I was trying to keep this low budget, and I regretted it. My second motor was a 24V 80W 160RPM Worm Gear motor and it works quite well. I then found on E-Bay another worm gear motor that was 24V 90W 180RPM. I'm really happy with this motor! I highly recommend getting one close to these ratings. They have the necessary power to run the pump and are much quieter than the cheaper lower rated motors.

Here's my recommendation:
uxcell DC24V 80W 160RPM 4N.M Reversible Worm Gear Motor $75.19
https://www.amazon.com/uxcell-Reversible-Reducing-Electric-Motor-JCF63R/dp/B0732FFSGS/ref=sr_1_1_sspa

So, you might be asking why go through all this effort to build something you can buy? Well, I had a hard time with spending $1,000 on a toy. All said and done, I have spent less than $300 on this setup. And even as enjoyable as the others look, I wasn't too keen on the receivers. Plus, I love a challenge that could possibly reap great rewards! This one did.

**Parts list:**

Here's a list of all items I purchased for this build. I'm not including the wood or screws as these are items I had laying around. The only items I think I missed are the hose clamps I used to connect the check valve. Many of these items come in a multi-pack, so you will end up with extras, which is useful if they are wear items.

**PUMP** $188.12

uxcell DC24V 80W 160RPM 4N.M Reversible Worm Gear Motor $75.19
https://www.amazon.com/uxcell-Reversible-Reducing-Electric-Motor-JCF63R/dp/B0732FFSGS/ref=sr_1_1_sspa

Rocker Arm Motor Arm Shaft Hole 8mm,Stroke 30-150mm $22.95
https://www.amazon.com/JQDML-Reciprocating-Actuator-Accessories-20-80mm/dp/B0D5V2BLL8/ref=pd_ci_mcx_di_int_sccai_cn_d_sccl_2_1/141-5064726-9102756?th=1

Thorstone Automotive Fluid Extractor Pump $11.97
https://www.amazon.com/Thorstone-Automotive-Extractor-Syringe-Evacuator/dp/B0B27SKZ4V/ref=sr_1_7

Harfington flanged sleeve bearings 10.5mm $8.49
https://www.amazon.com/HARFINGTON-Flanged-Sleeve-Bearings-Bushings/dp/B0C3C1B8YM/ref=sr_1_2

uxcell Gas Spring Strut M6x8mm Joint Fitting Female Threaded Connectors $8.28
https://www.amazon.com/uxcell-Spring-Fitting-Threaded-Connectors/dp/B0D25PXRJ4/ref=sr_1_4

uxcell Nitrile Rubber O-Rings 38mm OD 30mm ID 4mm Width $5.89
https://www.amazon.com/uxcell-Rings-Nitrile-Rubber-Diameter/dp/B07GXC195V/ref=sr_1_1_sspa

ONLYKXY 100 Pieces Silicone Cable Ties 1 inch/25mm Diameter Flat Rubber Bands $5.69
https://www.amazon.com/ONLYKXY-Silicone-Bands-Elastic-Elasticity/dp/B0DHRY95MK/ref=sr_1_2

12Pcs M8 Wing Nuts 304 Stainless Steel Butterfly Nut $9.99
https://www.amazon.com/Auvotuis-Stainless-Butterfly-Fasteners-Hardware/dp/B0BFHTPWVJ/ref=sr_1_3

1-1/2 Inch PVC Pipe Straps, 2 Holes Conduit Pipe Clamps $9.99
https://www.amazon.com/LOUZAGO-Straps-Conduit-Supports-Plastic/dp/B0CMNCC3XD/ref=sr_1_34

TAILONZ PNEUMATIC Male Straight 3/8 Inch Tube OD x 1/4 Inch NPT Thread Push to Connect Fittings $6.99
https://www.amazon.com/TAILONZ-PNEUMATIC-Straight-PC-3-8-N2/dp/B08867KZZ9/ref=sr_1_1_sspa

3/8" Push-to-Connect Air Hose Fittings Kit, Pneumatic Quick Connects $13.99
https://www.amazon.com/Sweezwon-Connect-Pneumatic-Splitters-Straights/dp/B0DYNHK7HM/ref=sr_1_9

Clear Vinyl PVC Tubing 1/4" ID X 3/8" OD $8.69
https://www.amazon.com/DERPIPE-Clear-Tubing-Plastic-Flexible/dp/B09TZR94JL/ref=sr_1_5

**CONTROLLER** $58.22

3v-24bv 6a 144w adjustable power supply $33.24
https://www.amazon.com/Adjustable-Universal-Switching-100V-240V-Converter/dp/B0CYT8DG44/ref=sr_1_3

EVIL ENERGY 5/16" Fuel Check Valve $9.99
https://www.amazon.com/EVIL-ENERGY-Return-Petrol-Aluminium/dp/B07ZB42CGT/ref=sr_1_1_sspa

Pneumatic SCF Series 3/8 Inch Tube OD Air Flow Control Valve $14.99
https://www.amazon.com/VETLEY-Pneumatic-Control-Valve-Controller/dp/B09WMR7QV7/ref=sr_1_1_sspa

**RECEIVER** $21.95

Thorstone Automotive Fluid Extractor Pump $11.97
https://www.amazon.com/Thorstone-Automotive-Extractor-Syringe-Evacuator/dp/B0B27SKZ4V/ref=sr_1_7

Grifiti Band Joes 4 Inch 5 Pack Assorted Colors $9.98
https://www.amazon.com/Assorted-Chemical-Resistant-Wrapping-Exercise/dp/B00IFMBL9Y/ref=sr_1_9

**RECEIVER HOLDER** $33.89

1 Pair Full Extension Ball Bearing Drawer Slides $13.90
https://www.amazon.com/BAIDI-Extension-Side-Mount-Bearing-Capacity/dp/B08L7L26Z5/ref=sr_1_1_sspa

Lamicall Gooseneck Phone Holder for Bed $19.99
https://www.amazon.com/Gooseneck-Bed-Phone-Holder-Mount/dp/B07S9JXQP2/ref=sr_1_3

## PUMP BASE DIAGRAM