



## Acoustic Levitator



Torque 3D

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### Summary

In this project I have designed and made an Acoustic Levitator.

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[acoustic](#)

In this project I have designed and made an Acoustic Levitator.

For this project you need;

Lm8uu Linear Bearing ([shorturl.at/nANTV](http://shorturl.at/nANTV))

6000zz bearing ([shorturl.at/pvNOX](http://shorturl.at/pvNOX))

10mmX150mm long Bolt and Nut

Arduino Uno (Arduino Sketch is attached with the downloadable files)

OC40K5 Transducer OR The Ultrasonics Sensor hc sr 04

Transducer(TCT40-16T)

Note: I have also attached another stl for the regular transducer, If you have a hc sr 04 Sensor just desold the transducer and use them. If you are using the regular ones than keep the input voltage upto 20 volts)

L298D Motor Driver Module

Boost Module 3-32V 4A XL6009( I tuned mine to 30volts)

Lots of Jumper wire

150x50mmx19mm 2 pieces of Plywood(You can use a box if you want I was being lazy to design a box for it so I just kept it open)

I have also attached the schematic, I took the idea from this article(  
<https://www.instructables.com/id/Mini-Acoustic-Levitation/>  
) and I have added a boost converter for more power.  
Support me by subscribing and watch the video.

## Print instructions

Print Settings

Printer brand:

Creality

Printer:

Ender 3

Rafts:

No

Supports:

Yes

Resolution:

0.16

Infill:

50

Filament\_brand:

PLA

Filament\_color:

Purple

Filament\_material:

PLA

## Model files



**knob.stl**



**spacer.stl**



**top.stl**

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**v2-for-small-transducer-base.stl**

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**base.stl**

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**v2-for-small-transducer.stl**

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**spacer.sldprt**

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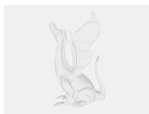
**knob.sldprt**

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**base.sldprt**

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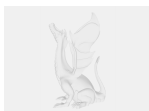
**top.sldprt**

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**v2-for-small-transducer.sldprt**

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**v2-for-small-transducer-base.sldprt**

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