



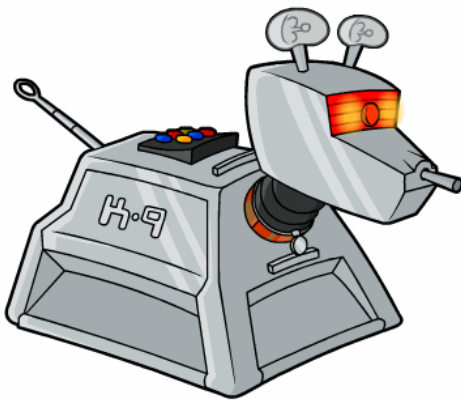
## K-9 Robot Dog



by mglaforge

Ever since i was a young boy in 1984 and i saw Doctor Who on the local PBS station in Tulsa Oklahoma, and his trusty robot dog K-9. I have wanted one, fast forward 34 years, technology has finally developed to a point that this is becoming possible.

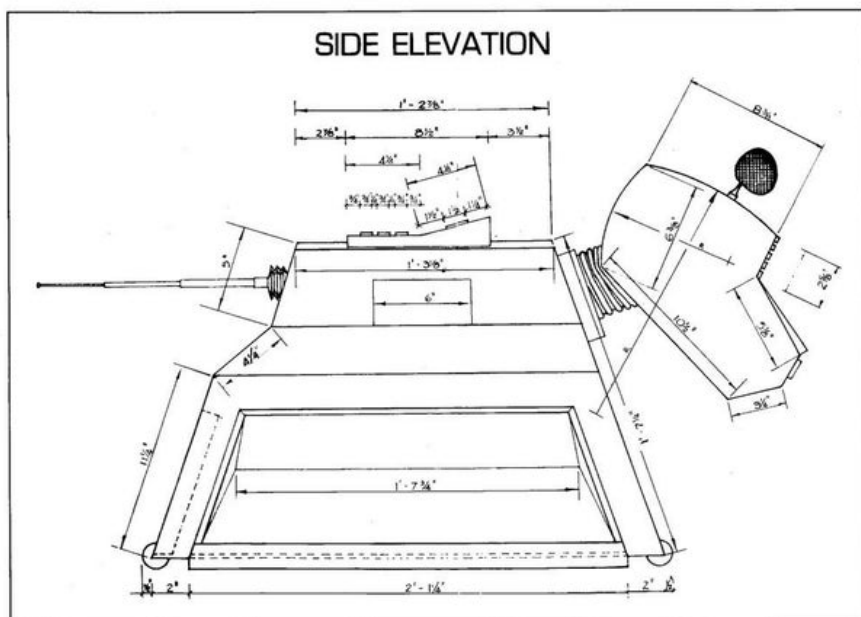
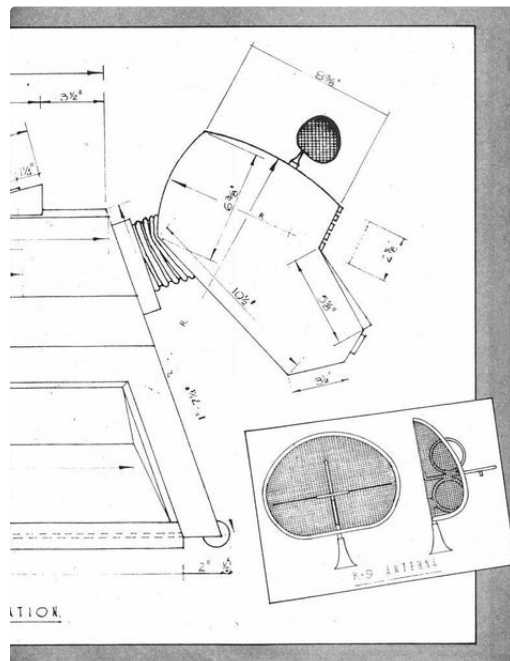
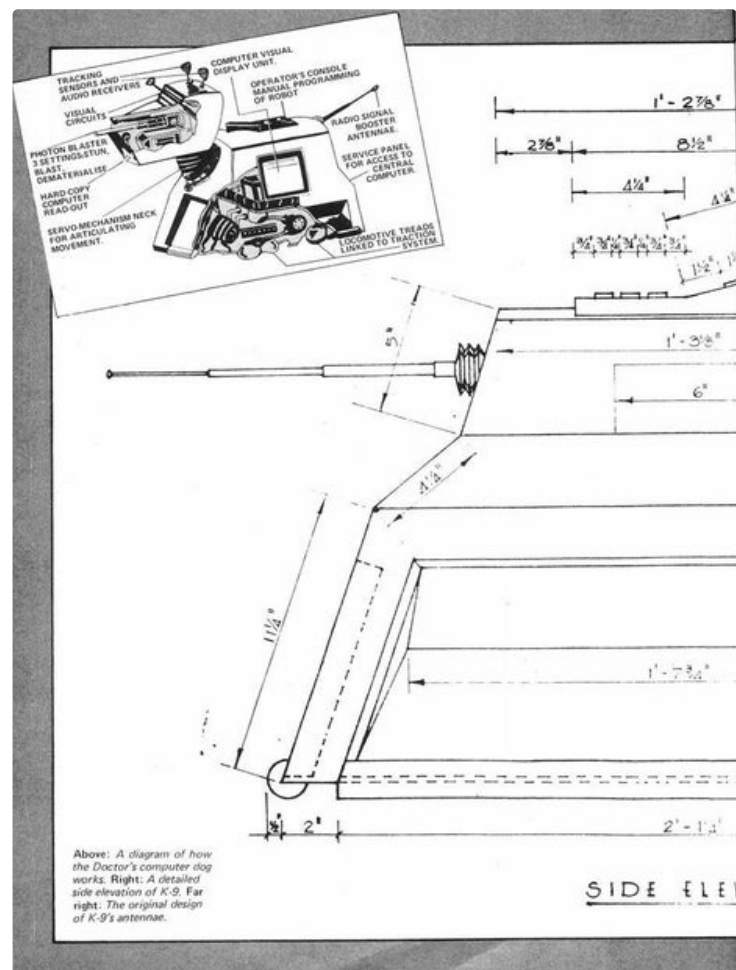
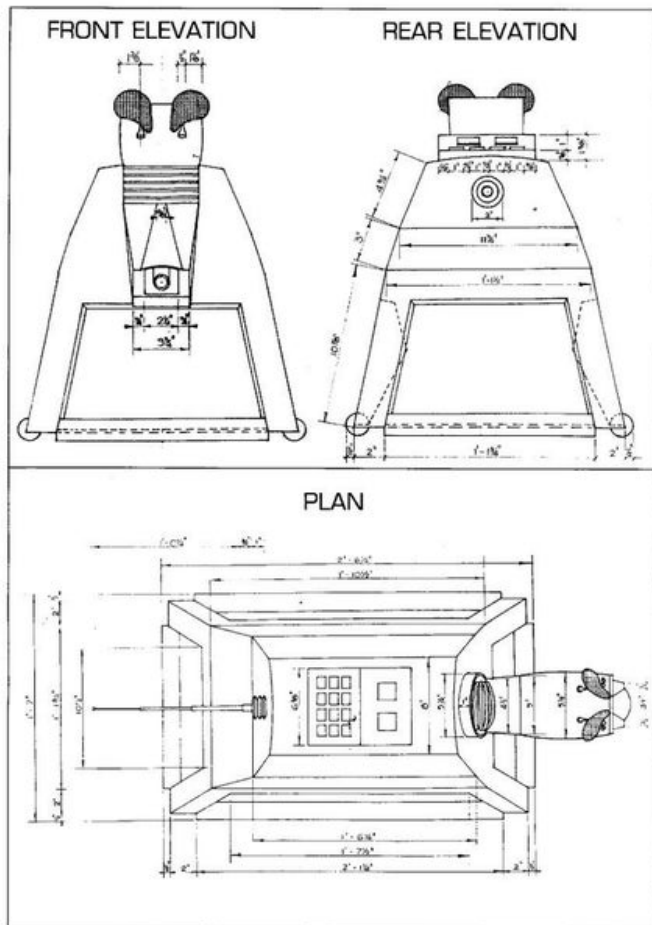
<https://youtu.be/uvDd0yT0LI0>



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### Step 1: Designing the K-9 Body

First I pulled some measured drawings off line, and I desired that a full scale one would be a little big for moving the project around with the vehicle i have, So I derided to scale him down to 80%. See picture of K-9 on front seat.

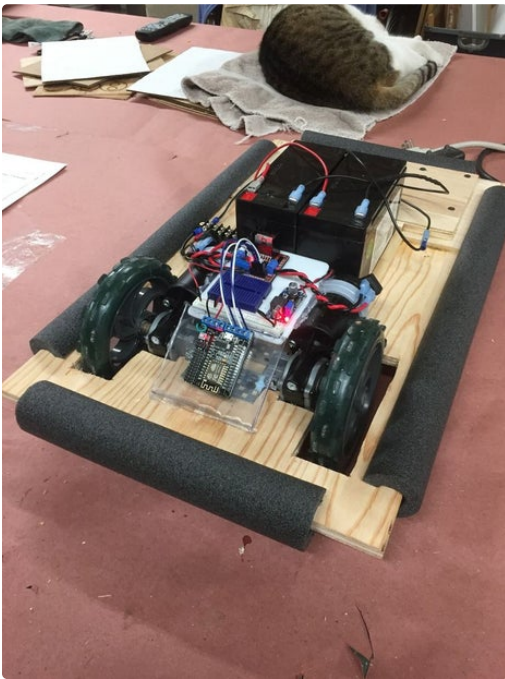




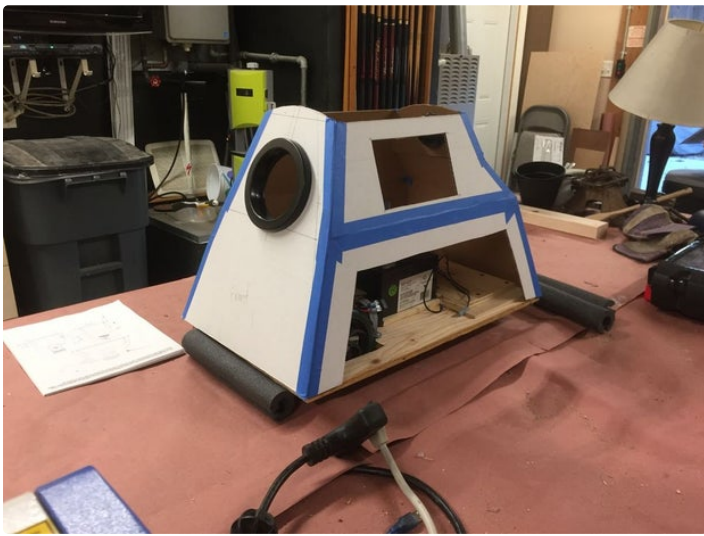
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## Step 2: Made Cardboard Templates to Verify 80% Scale

Using blue painters tape and cardboard to firm out the design,







<https://www.instructabl...>

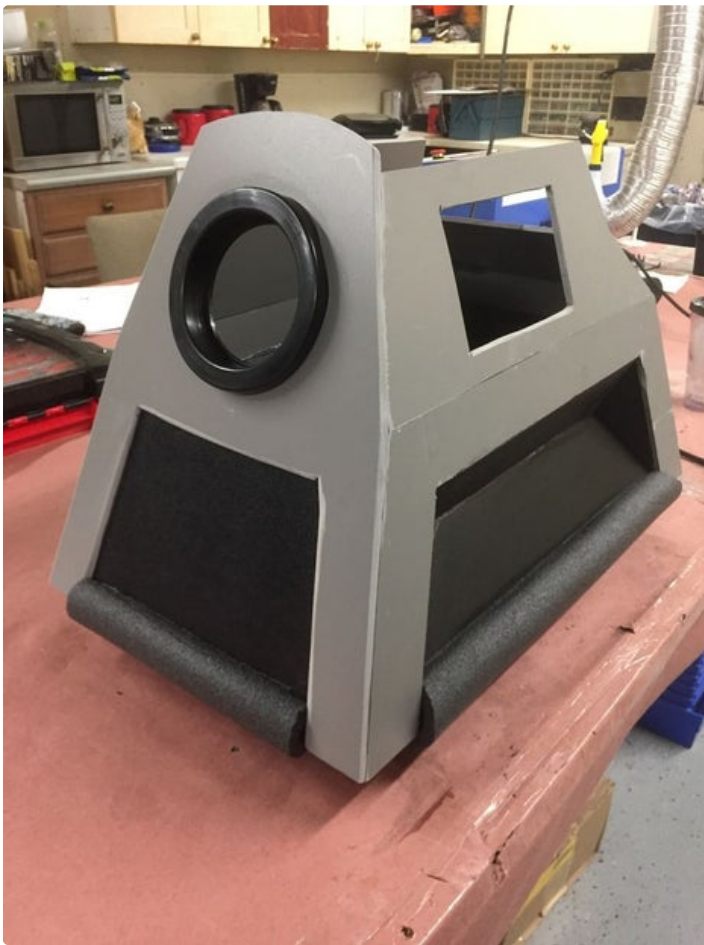
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### Step 3: Building the Body

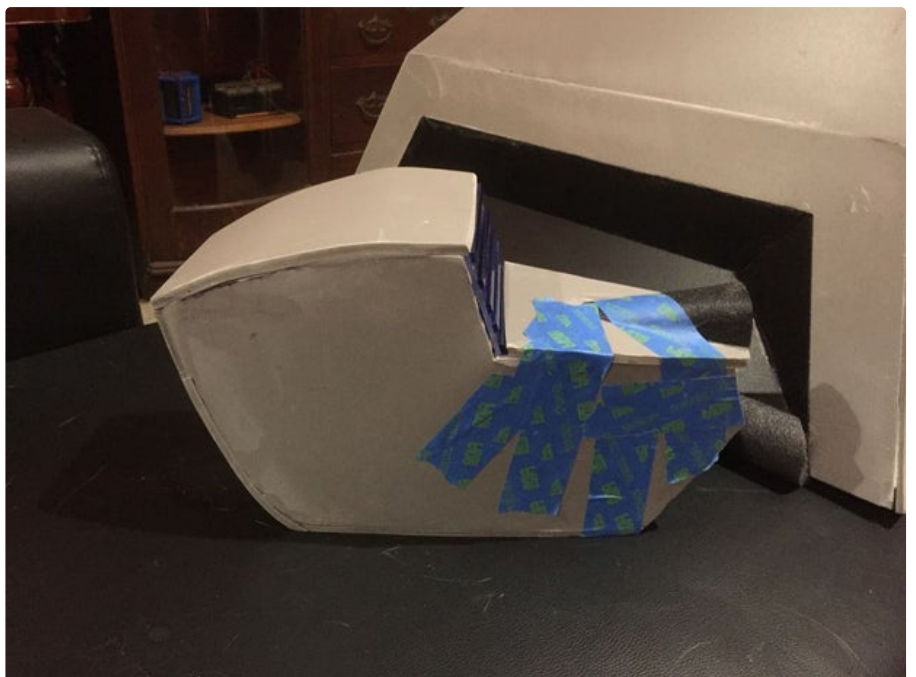
using 1/4" PVC foam board grey and black. Also found a soft vinyl flood light ring, I had in a parts bin. to clean up the neck hole.







#### Step 4: Building Out the Head

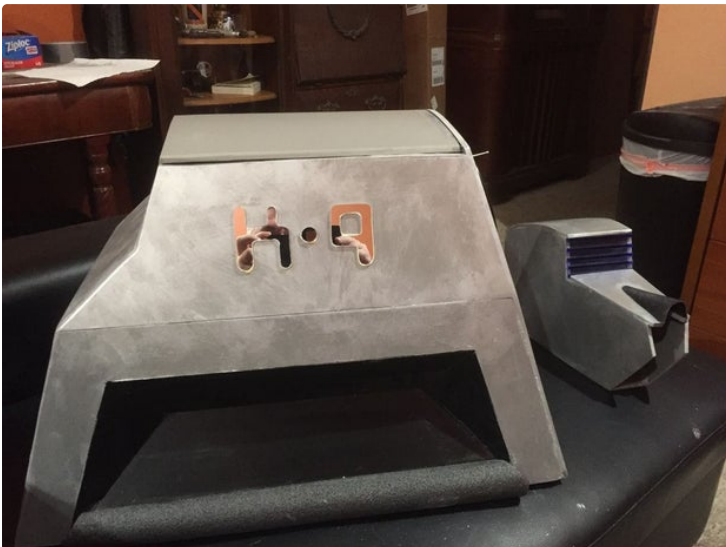




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### Step 5: Mirrored K.9

used laser cutter an this file to make side K-9





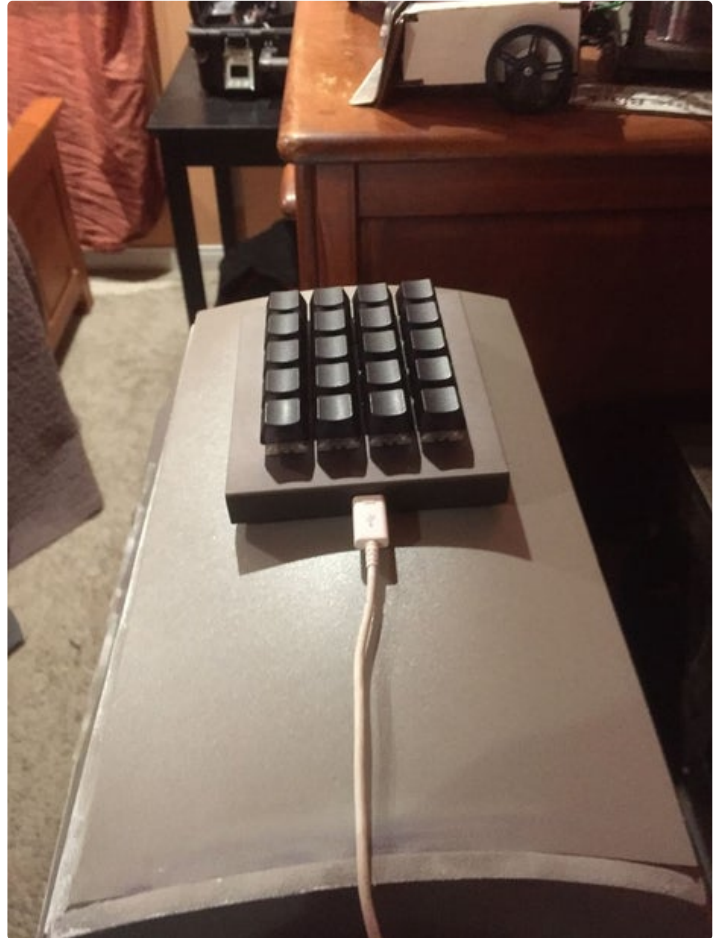
## Step 6: Back Keyboard and Voice Assistant,

Keyboard link:

<http://www.maxkeyboard.com/max-falcon-20-rgb-custo...>

Voice assistant link:

<https://mycroft.ai/>

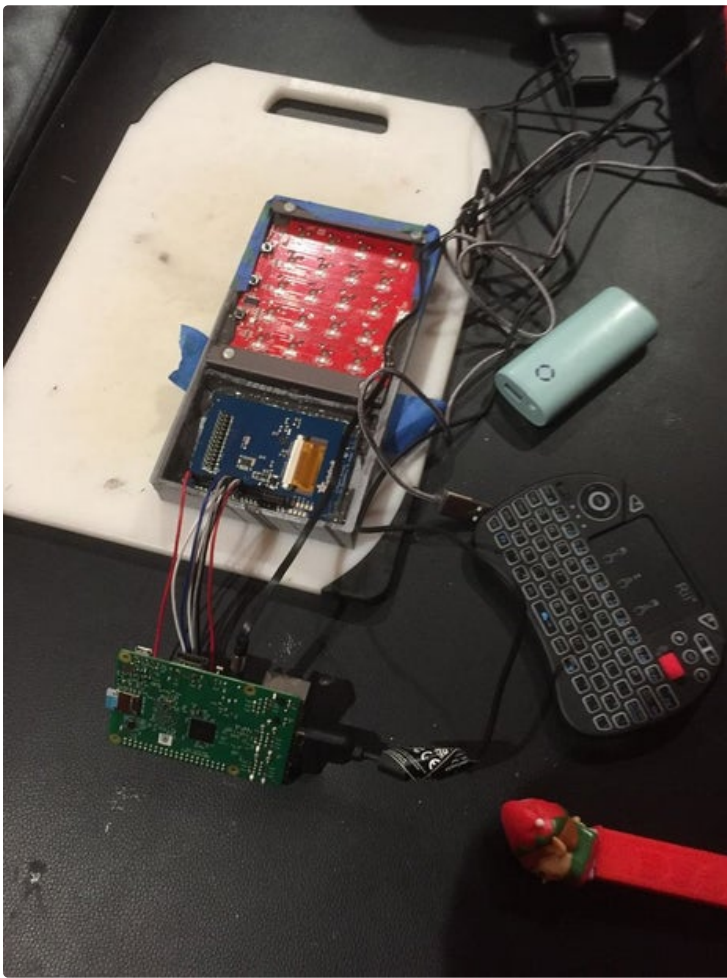


<https://youtu.be/FMu1t1XpoPw>

[https://youtu.be/wIAajD1\\_y1k](https://youtu.be/wIAajD1_y1k)

<https://youtu.be/T8IxfzaXUTQ>

<https://youtu.be/rtMt-Kk2WGg>



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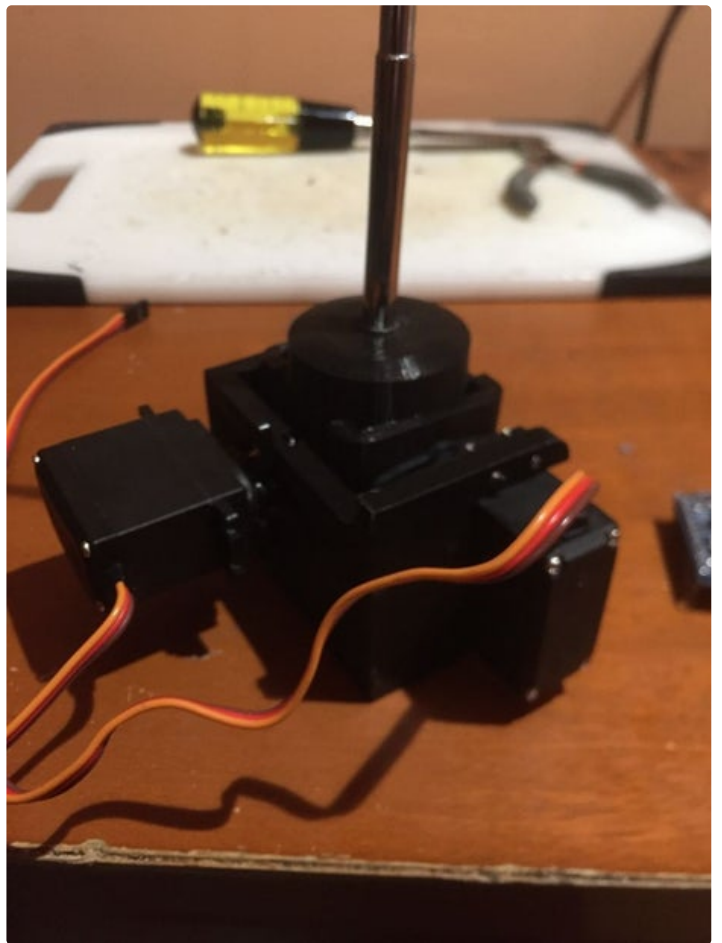
## Step 7: Tail Mechanism Development

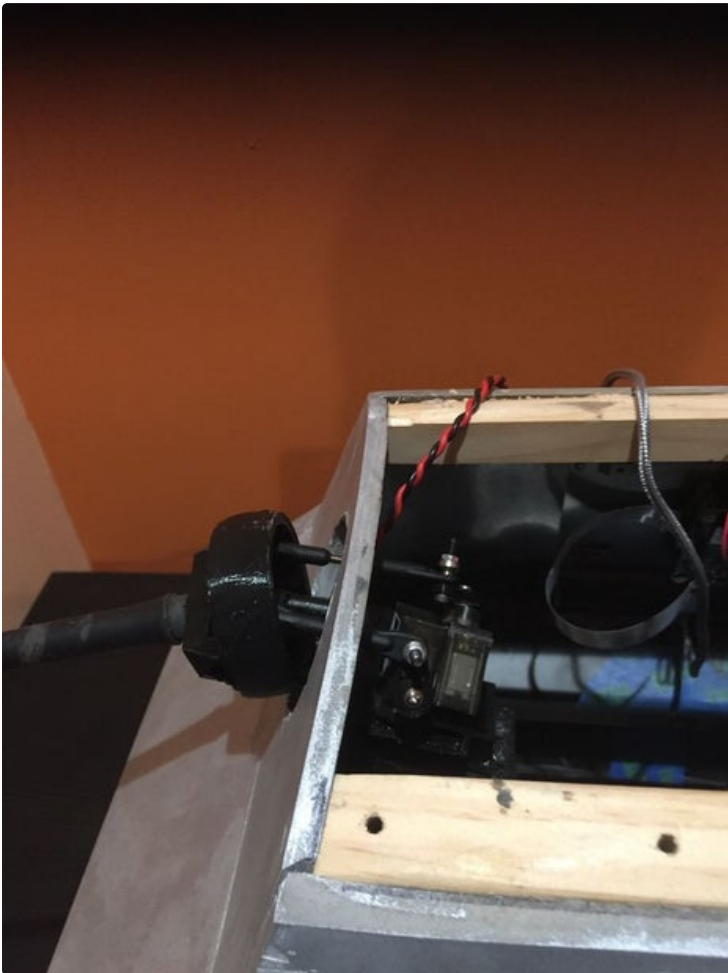
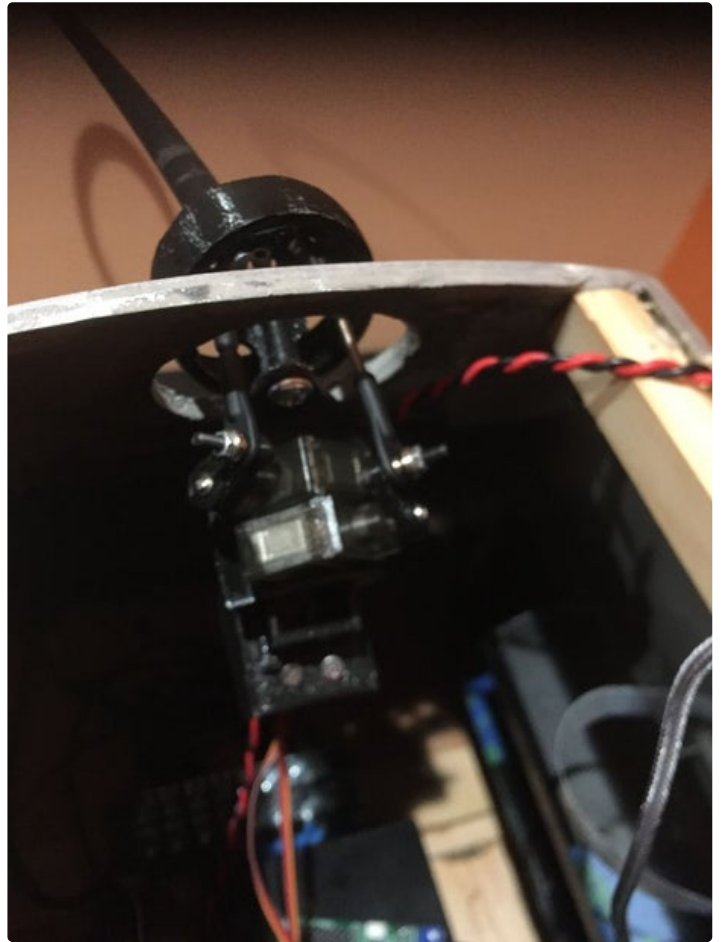
there have been 2 different generations of tail wagger,

<https://www.thingiverse.com/thing:3983252>

<https://youtu.be/w6KYjxOoQQI>









<https://youtu.be/uvDd0yTOLl0>



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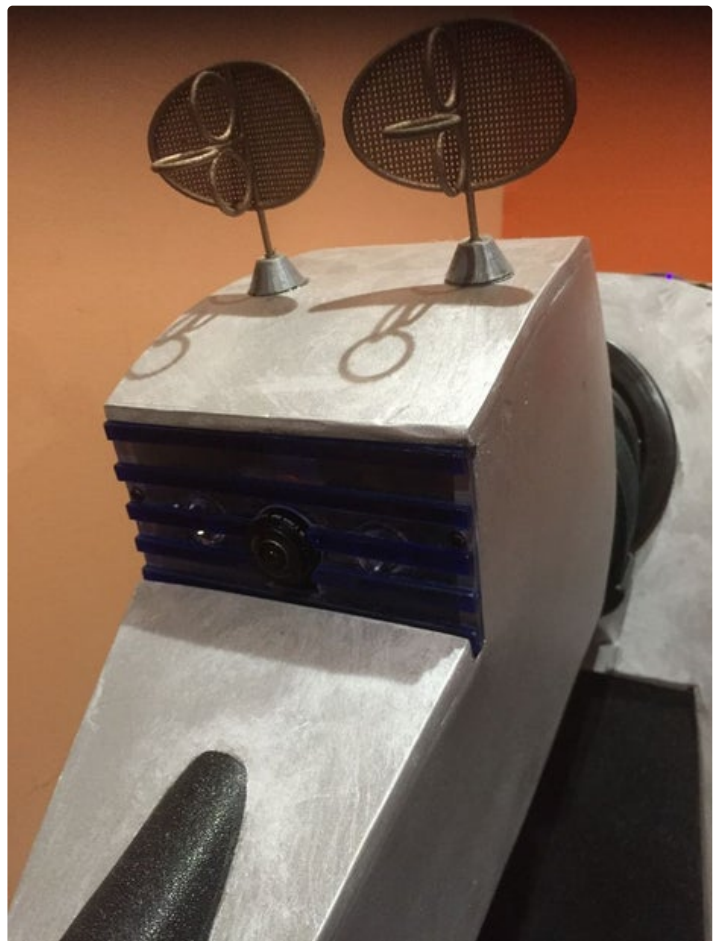
## Step 8: Addicore DIY Controller

<https://www.facebook.com/DIYAnimatronic/videos/962044074177259/>

## Step 9: K-9 Ears

Went with metal printed K-9 ears from shapeways. had to trim length and glue directly into 9g servos

<https://www.shapeways.com/product/PQ3VLRMQ5/k-9-mk...>





[https://youtu.be/bQp9Hv\\_WBdg](https://youtu.be/bQp9Hv_WBdg)

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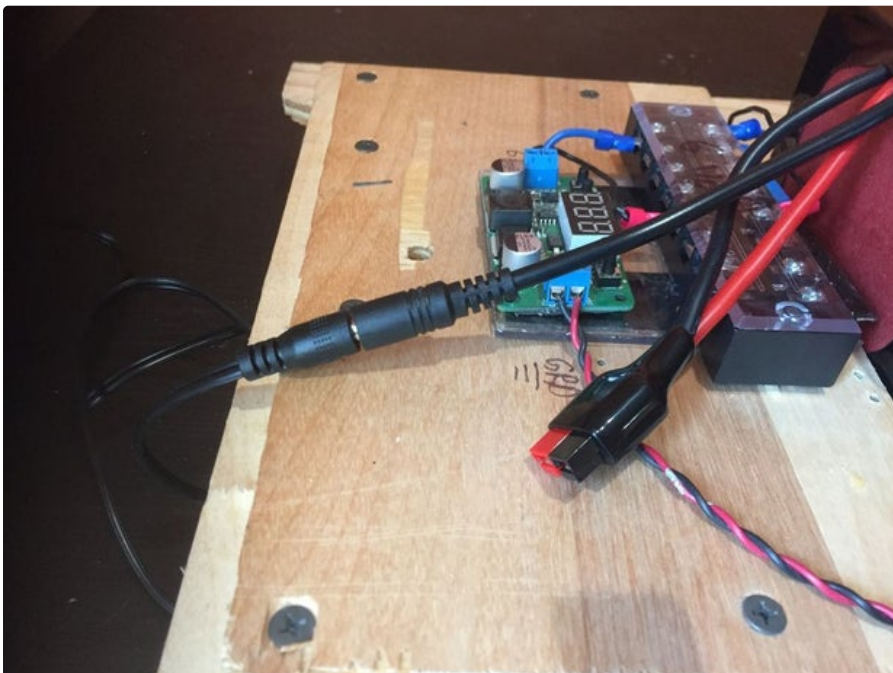
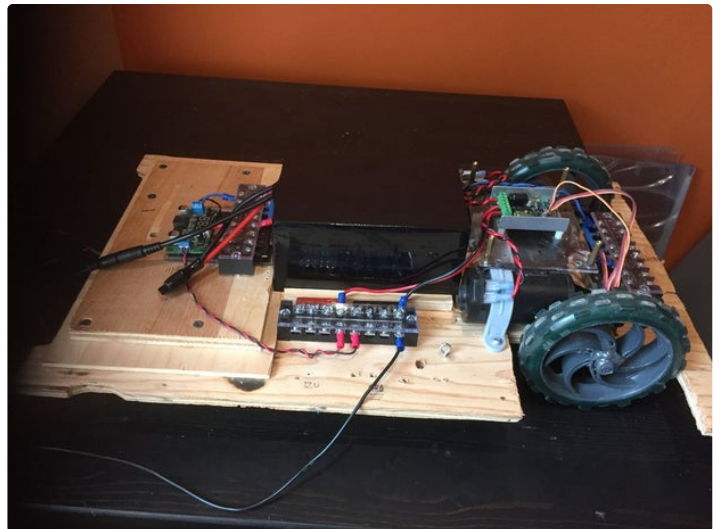
<https://www.instructabl...>

## Step 10: Battery Upgrade

Original 12 volt lead acid batteries each had a .7 amp hour capacity, the new battery has 20 amp hour NiMH and weighs half the weight.

<https://www.amazon.com/gp/product/B016LE7QJ6/ref=p...>

Also added a battery gas gauge.



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## Step 11: K9 Eyes

<https://youtu.be/gV09i0n4Q24>



Wonderful! I met the voice artist at a convention once, and he very kindly gave a snatch of that "supercilious and yet petulant" K-9 voice we love so much. Well done on your replica and thank you for sharing your work :-)