

## prius inverter gen 3 + toyota rear motor

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### prius inverter gen 3 + toyota rear motor

Jul 09 2018 7:30pm

hi ...

i am from NJ ... ((if someone is nearby??))

my new project I want to run prius inverter gen 3 + toyota highlander rear motor ... ((homemade hybrid))

I want to install all this set on to 96 vw passat B4 on rear wheels ... ((at an early date))

I do not have much experience and no education but I have a lot of interest ...

my first steps i got highlander rear motor 50KW

on the video, I just test it works or not ((12V cheap chinese driver))

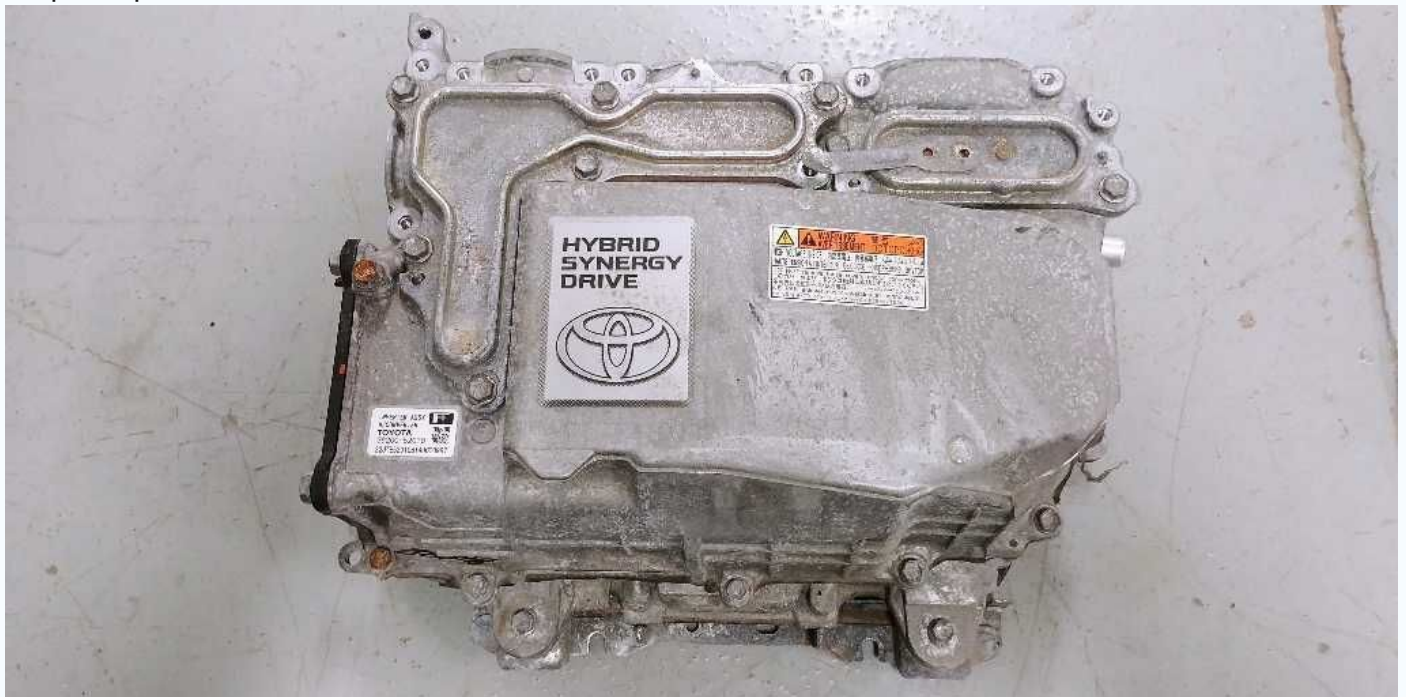
[youtube]<https://youtu.be/xrGgDHG6X7w>[/youtube]Last edited by **Abricosvw** on Jul 09 2018 7:32pm, edited 1 time in total.**Abricosvw** 10 mW

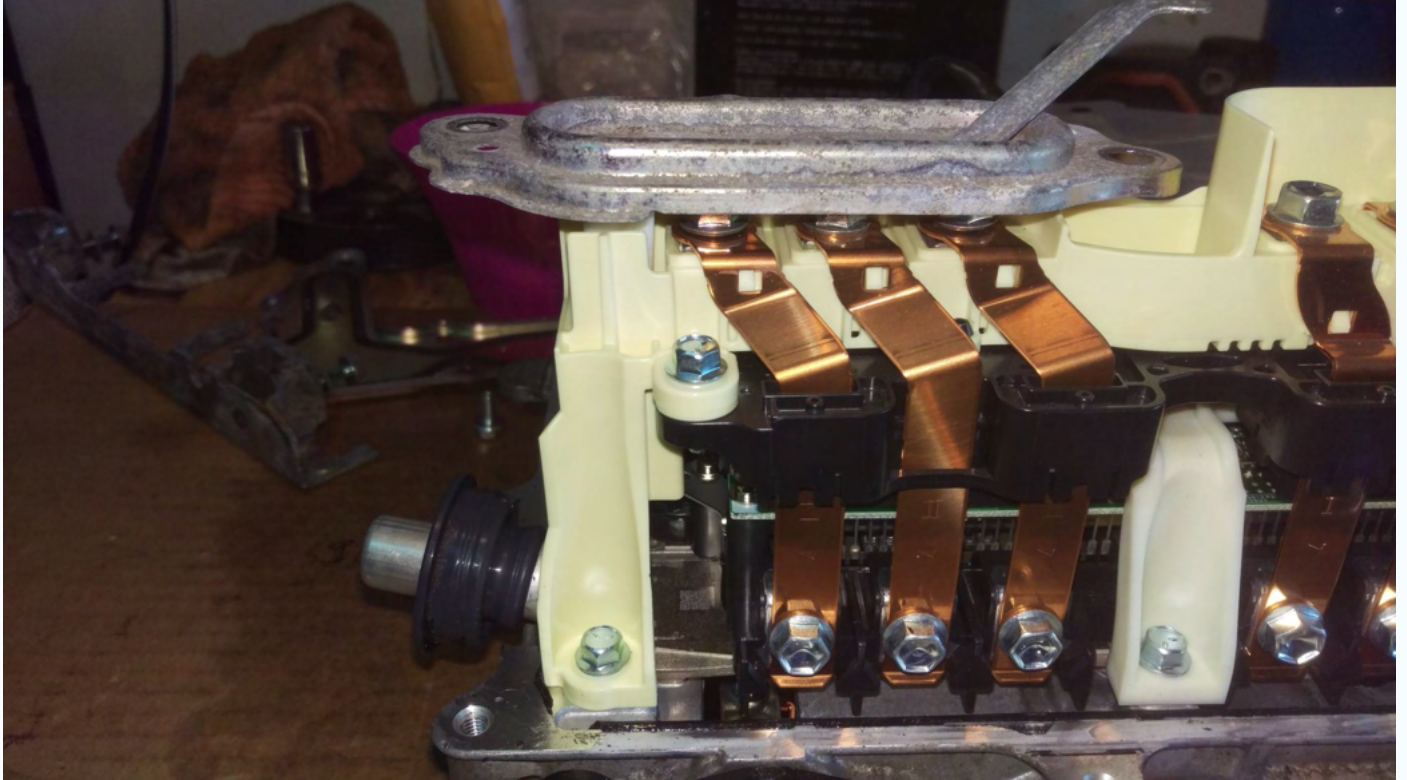
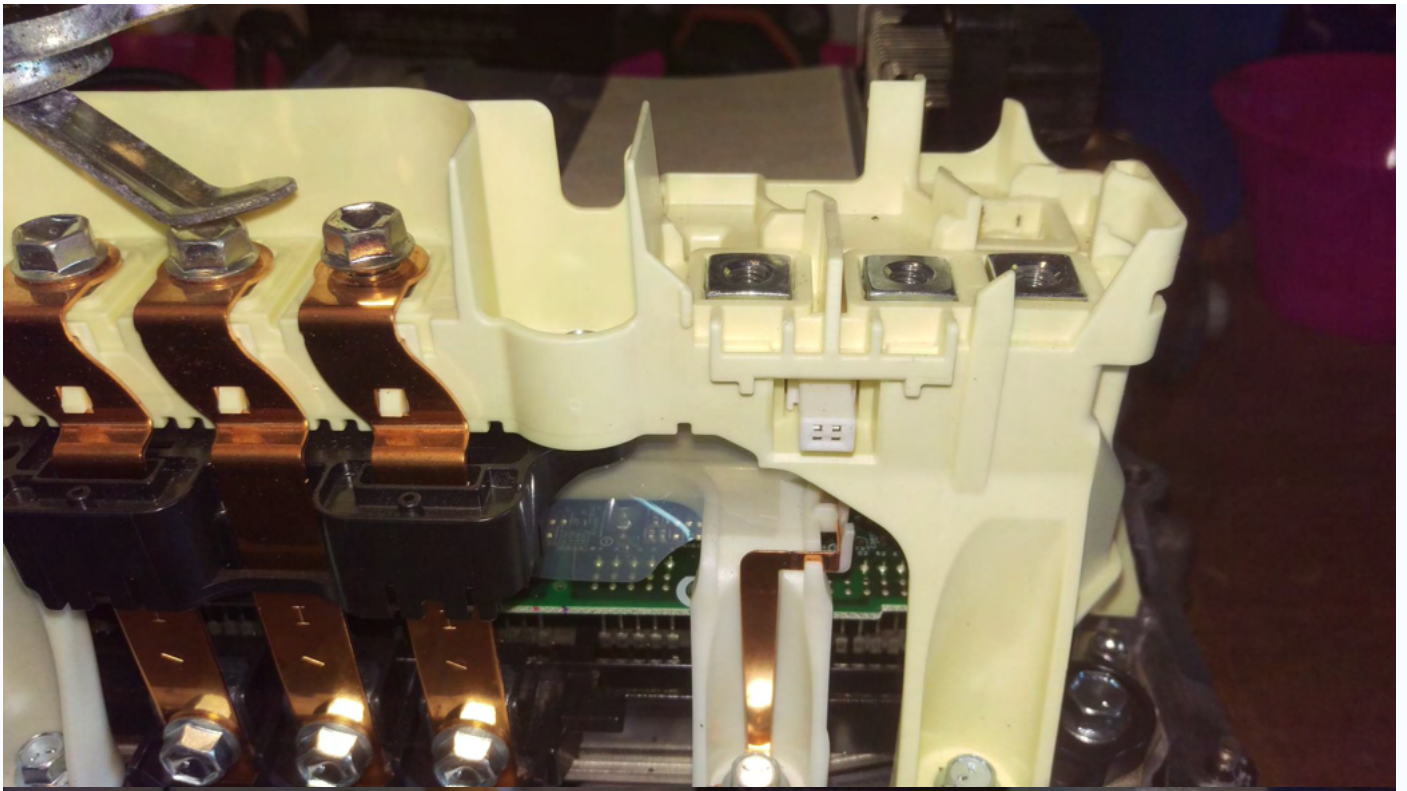
### Re: prius inverter gen 3 + toyota rear motor

Jul 09 2018 7:32pm

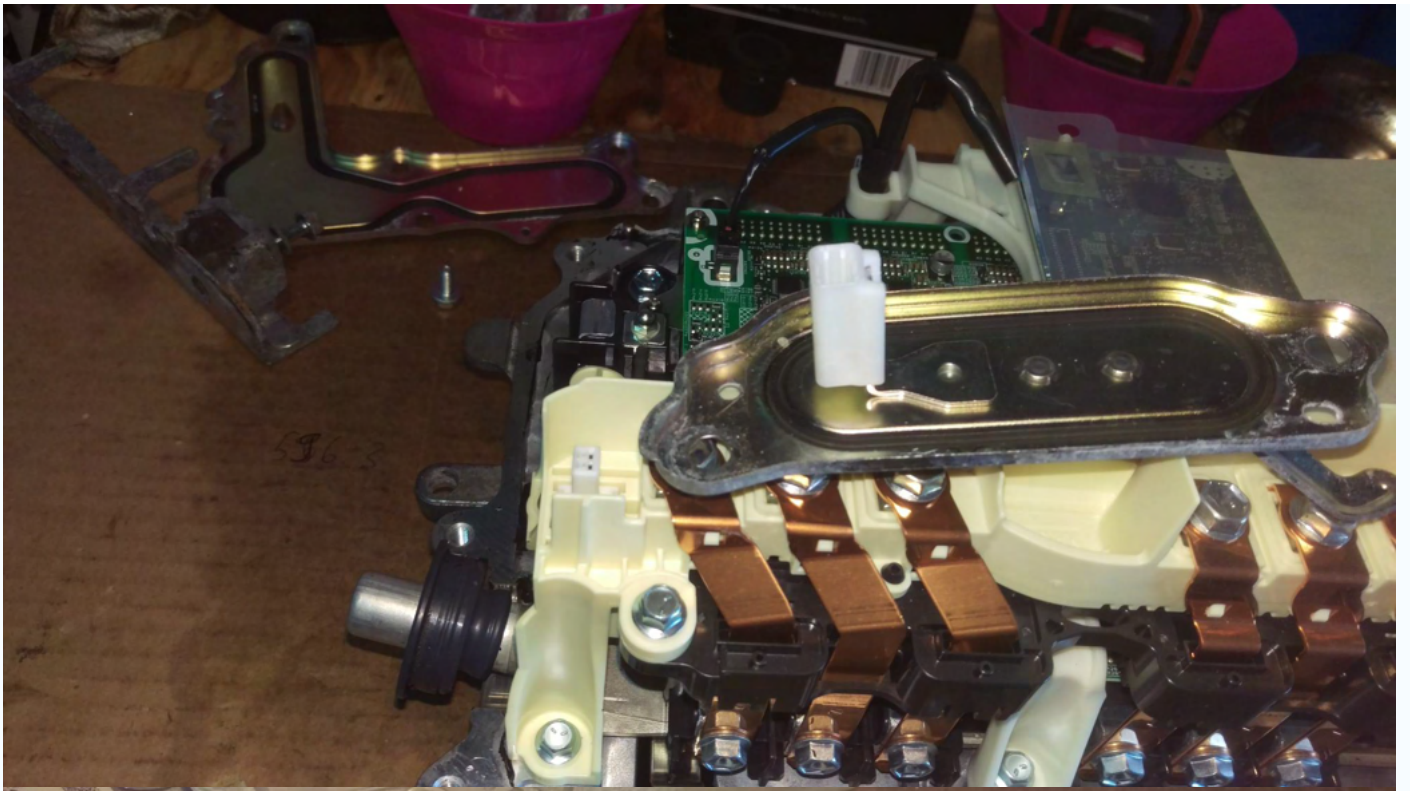
step two prius inverter gen 3 100KW

couple of photos





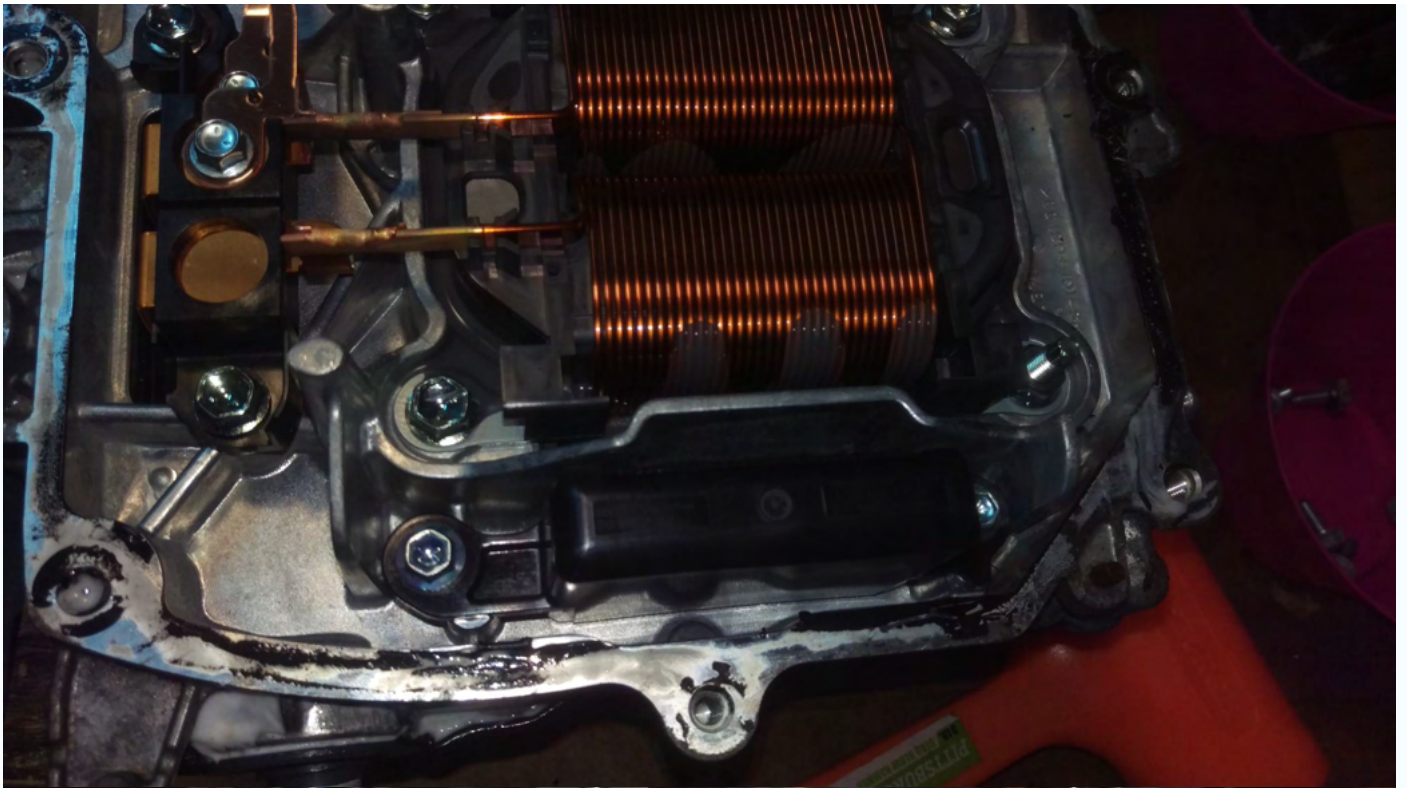




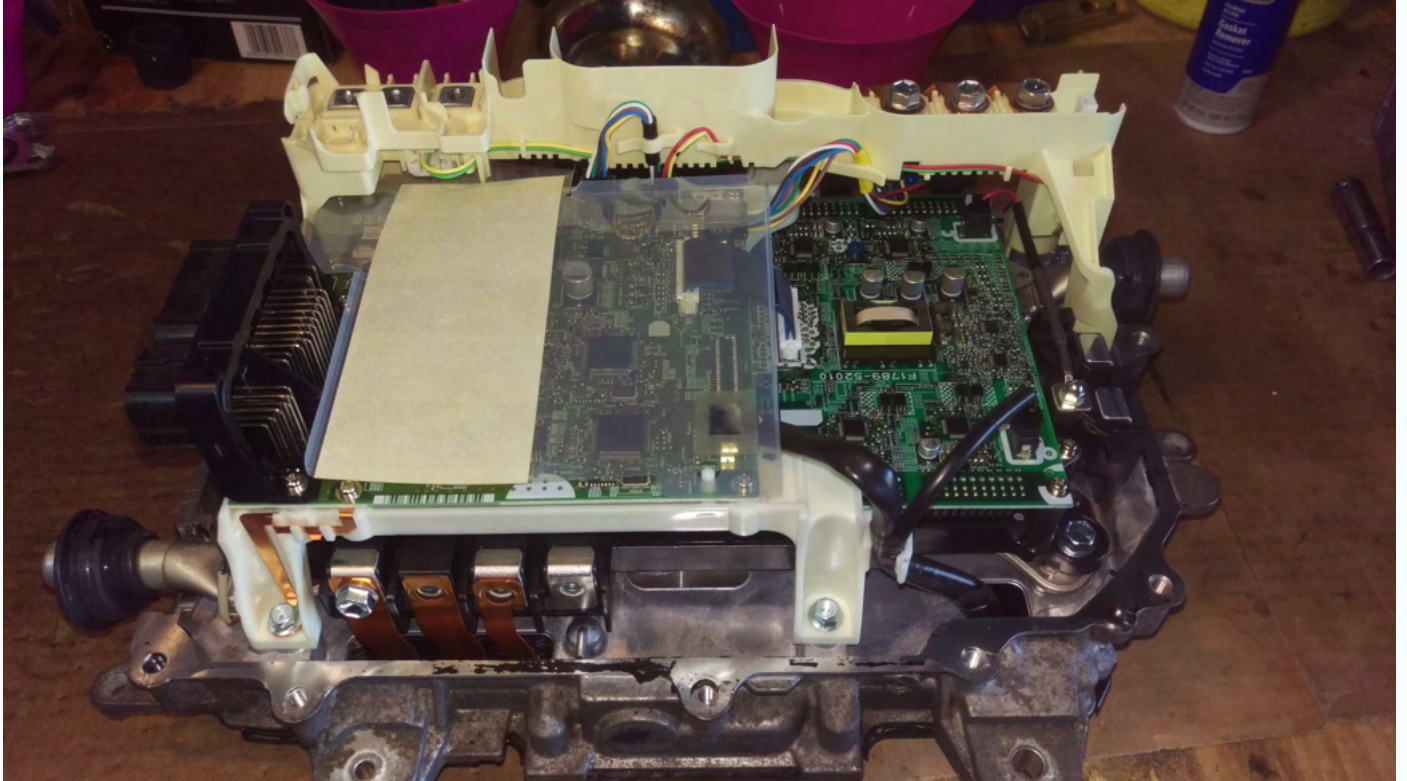
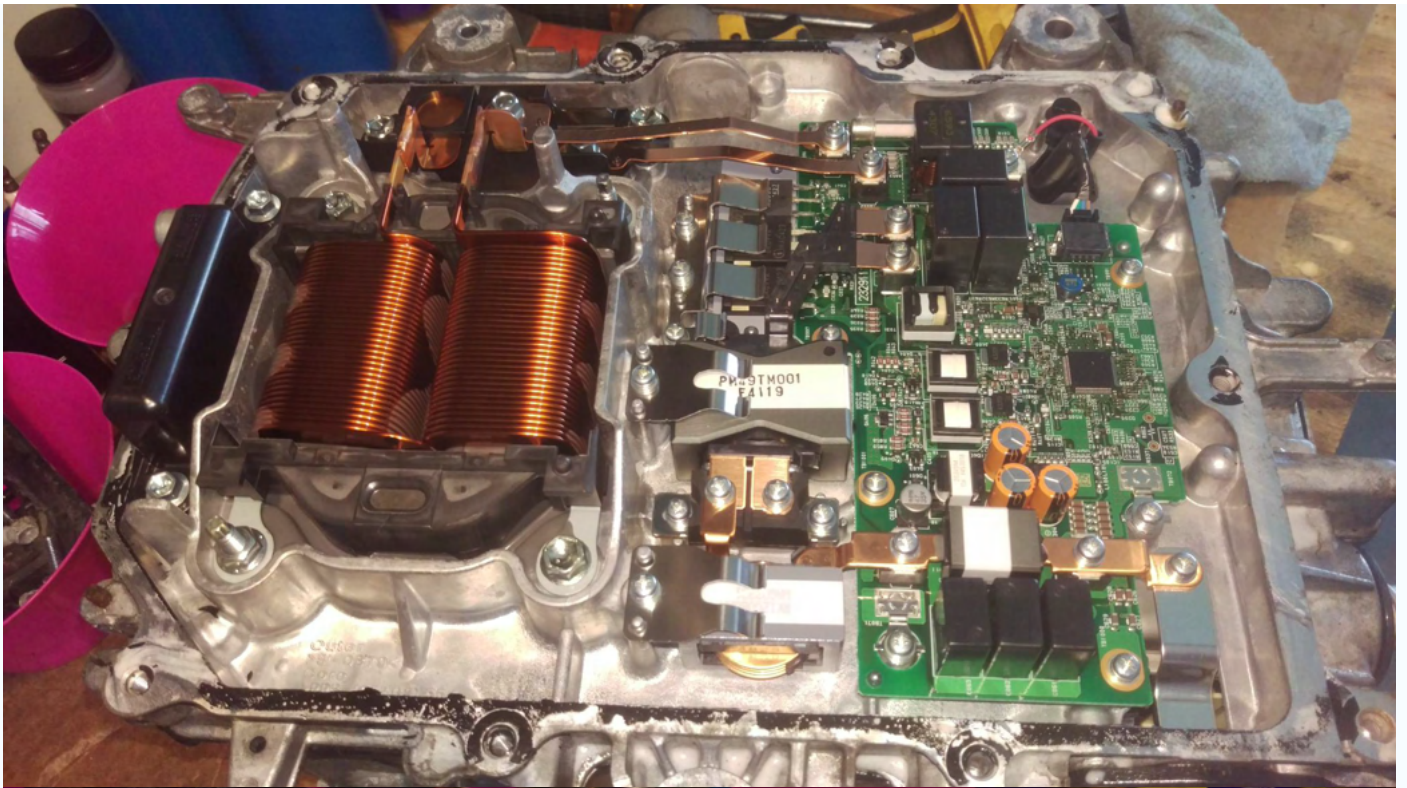
























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Jul 09 2018 8:29pm

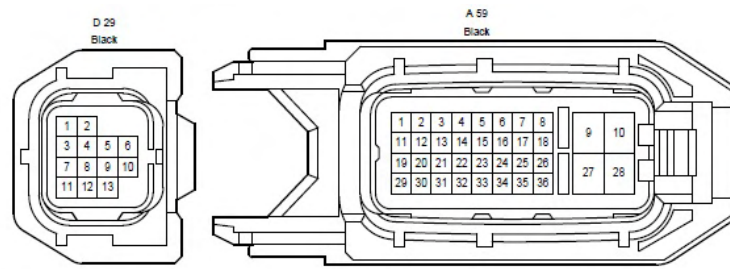
step three inverter connector + pigtail

pigtail from inverter connector is attached to fuse box

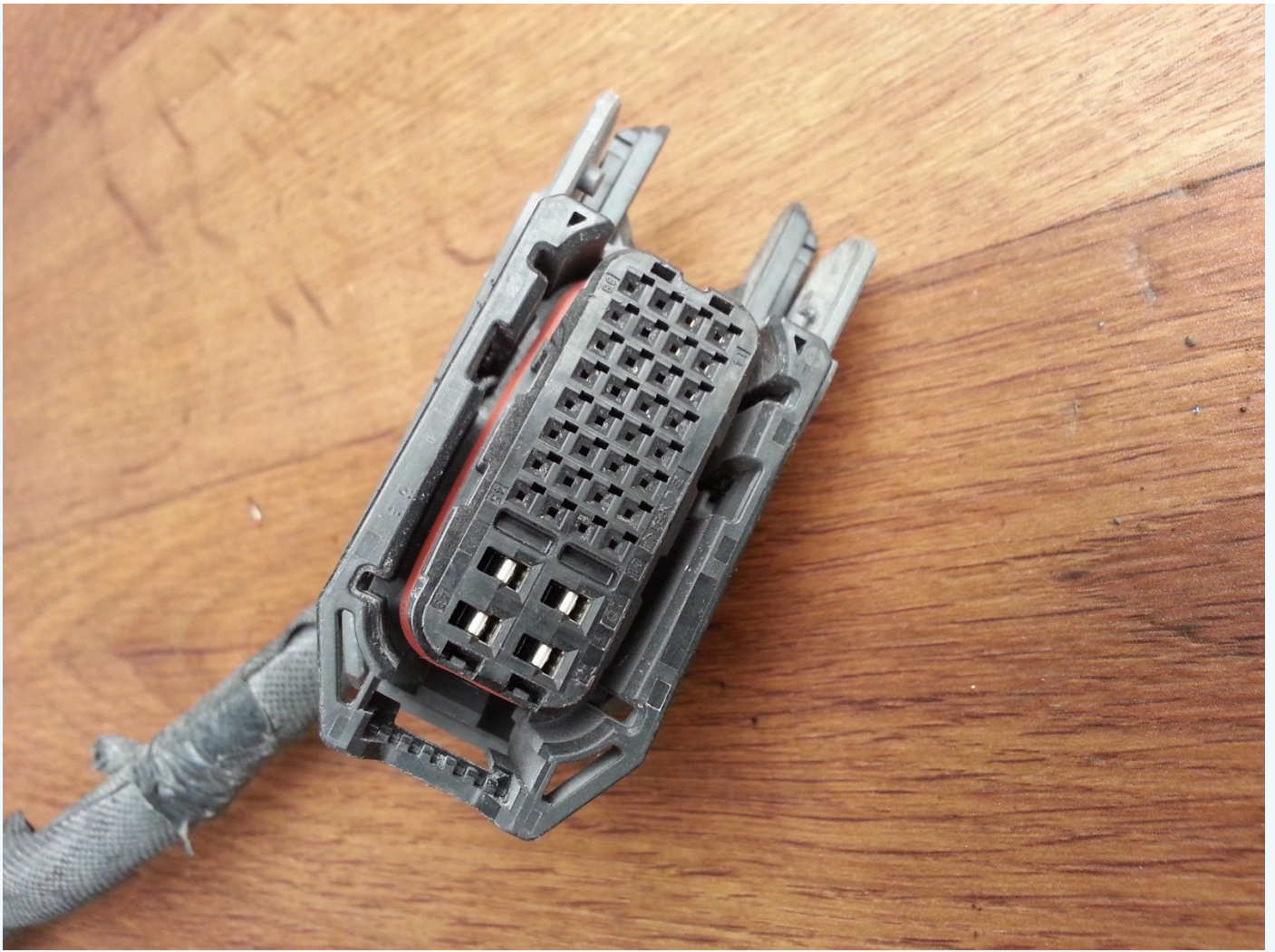






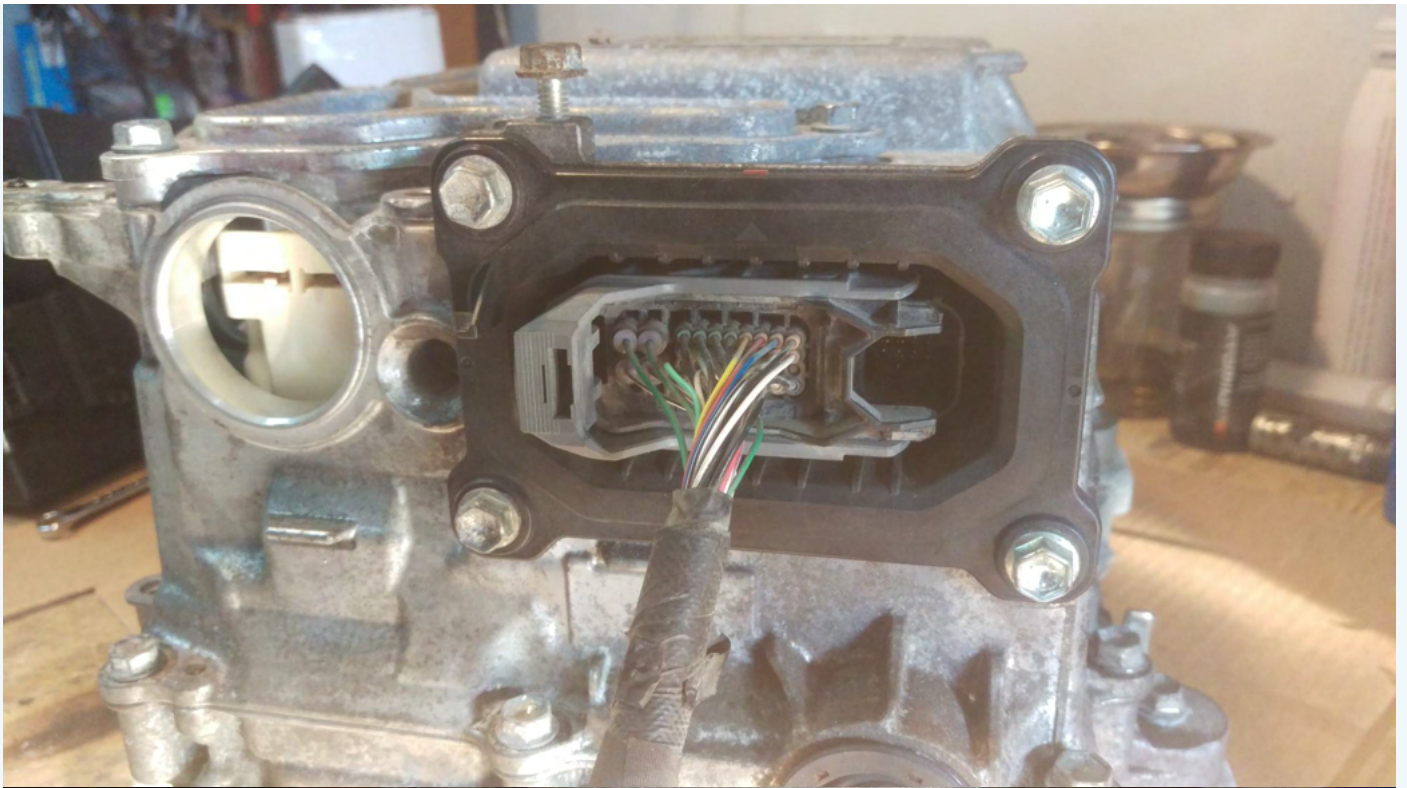






I do not have connector from resolver encoder ((sensor))





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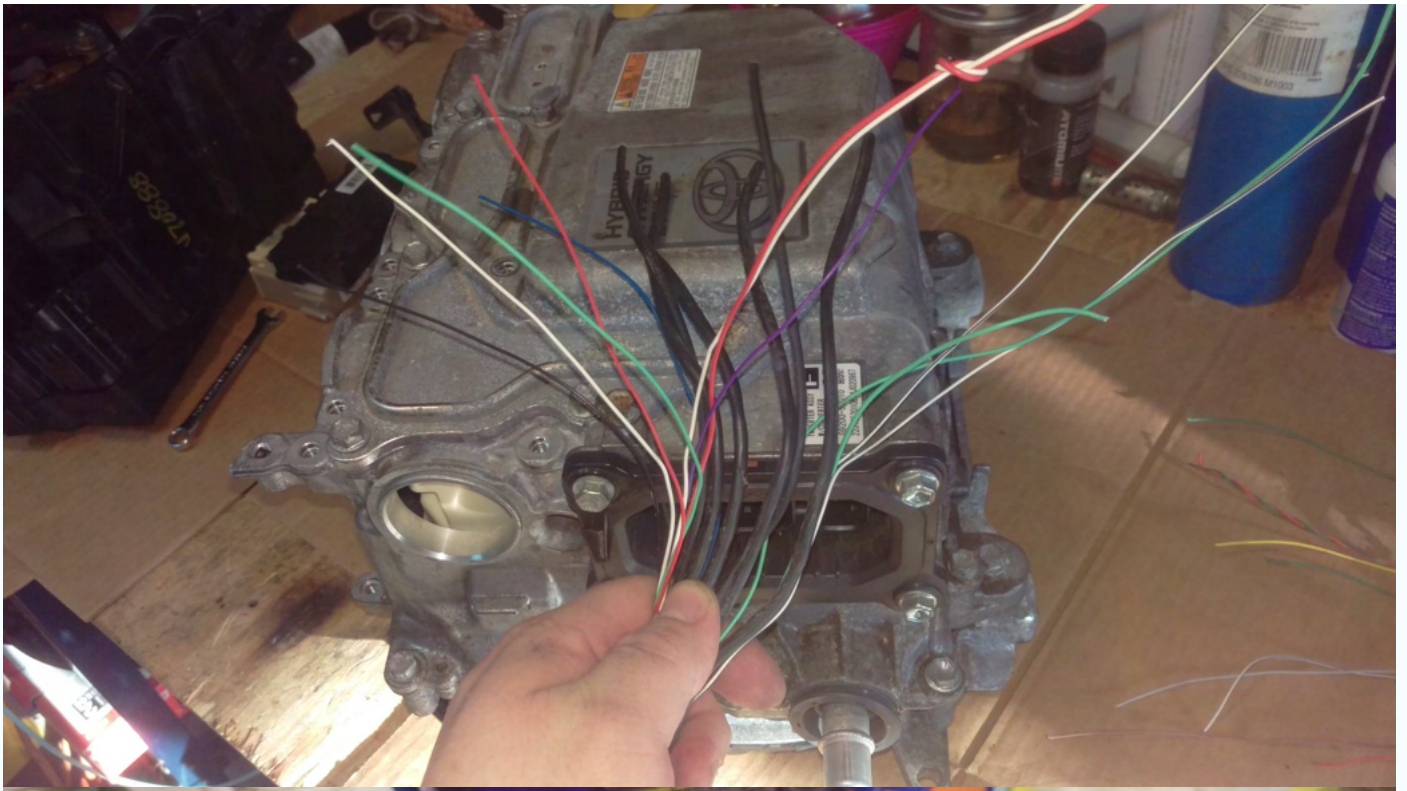
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Jul 09 2018 8:39pm

step four

we need to understand what kind of wires ((enter and exit to the inverter))









if you pay attention to the blue electrical tape ...  
there is a twist of wires and a change in the color coloration ...

 Image



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**Re: prius inverter gen 3 + toyota rear motor**


Jul 10 2018 8:22pm

Now we need to understand which connector ((who is who)) ...

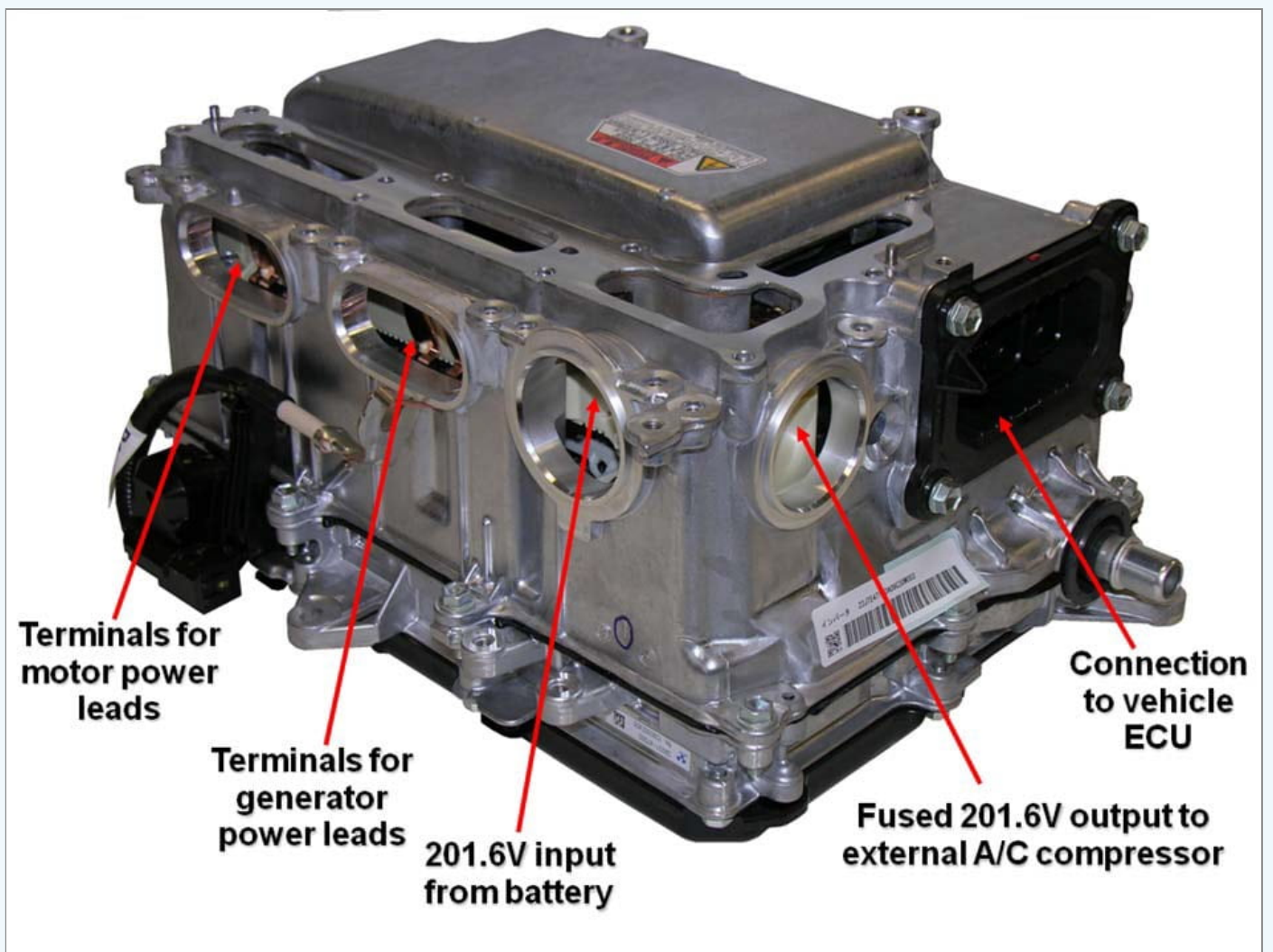






 **New Bitmap Image (2).jpg**

New Bitmap Image (2).jpg (145.12 KiB) Viewed 1963 times



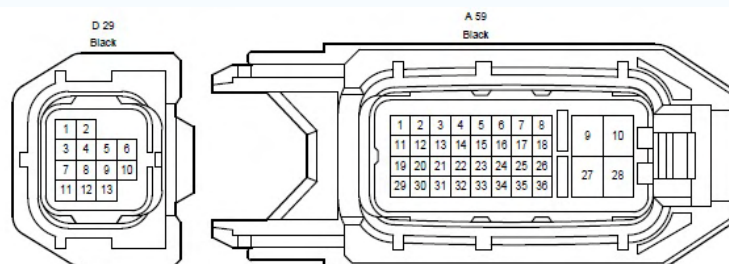
New Bitmap Image.jpg (88.08 KiB) Viewed 1963 times



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Jul 10 2018 8:43pm

now the most important thing we need to understand how to control the inverter ...  
 we need a diagram and pinout from connector which on the side ((enters)) in inverter ...  
 in attached pdf file we are interested connectors D29 A59


[inverter diogram gen3.pdf](#)

(1.04 MiB) Downloaded 217 times

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Jul 30 2018 5:03pm

now we need to somehow manage the inverter ( driver ) ...  
 so that you can manage and change settings and customize how your electric motor should rotate and work ...

we need Electronic control unit ...

I chose Lebowski's motor control [viewtopic.php?f=30&t=57877&hilit=Lebowski+Brain+board](http://viewtopic.php?f=30&t=57877&hilit=Lebowski+Brain+board)

in our option We only need Lebowski( chip brain ) ... and an expansion board ...

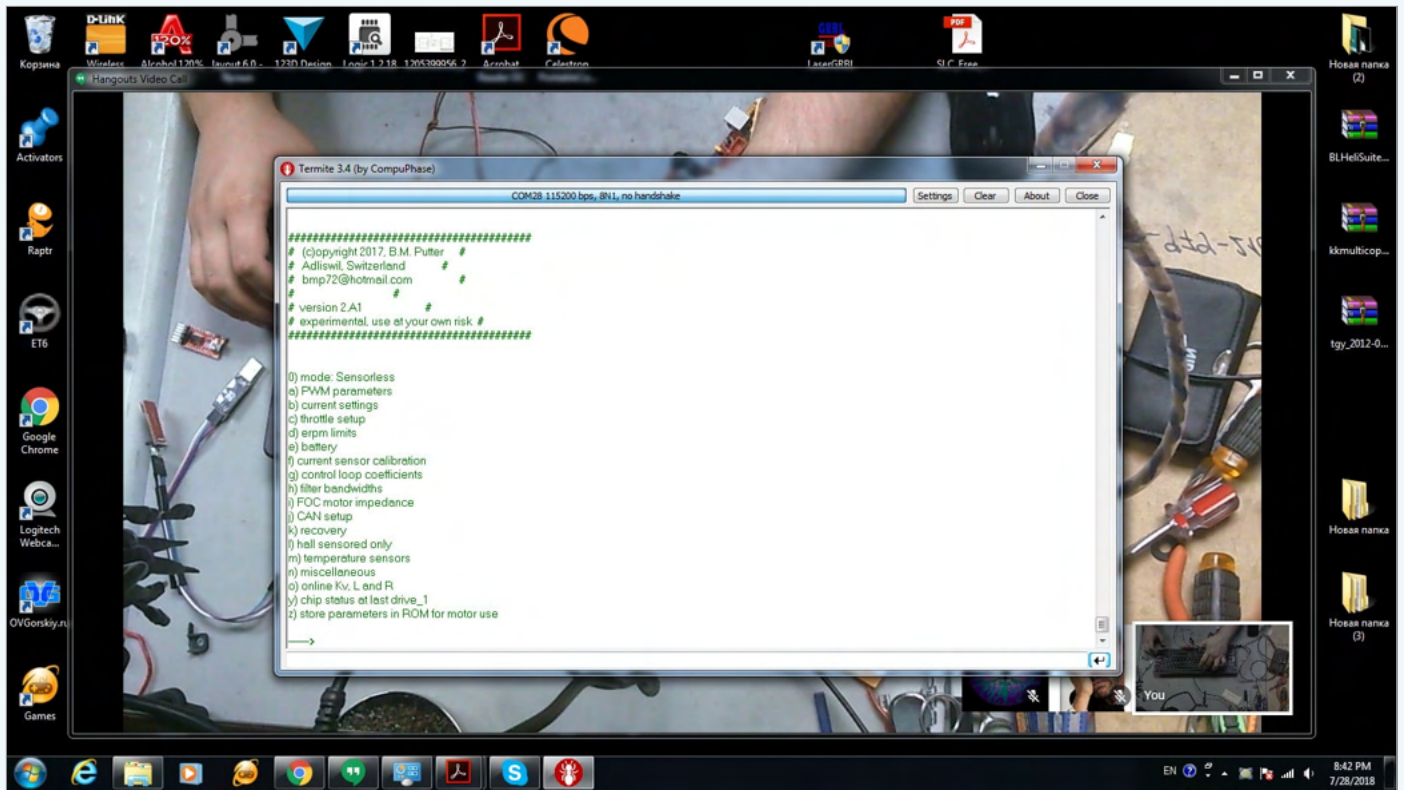
read the documentation how to manage the program [download/file.php?id=108834](http://download/file.php?id=108834)

for windows 10 download Termite version 3.4 - complete setup

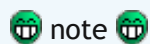
[https://www.compuphase.com/software\\_termite.htm](https://www.compuphase.com/software_termite.htm)

If you follow the instructions in the PDF file you will have same as in the photo below





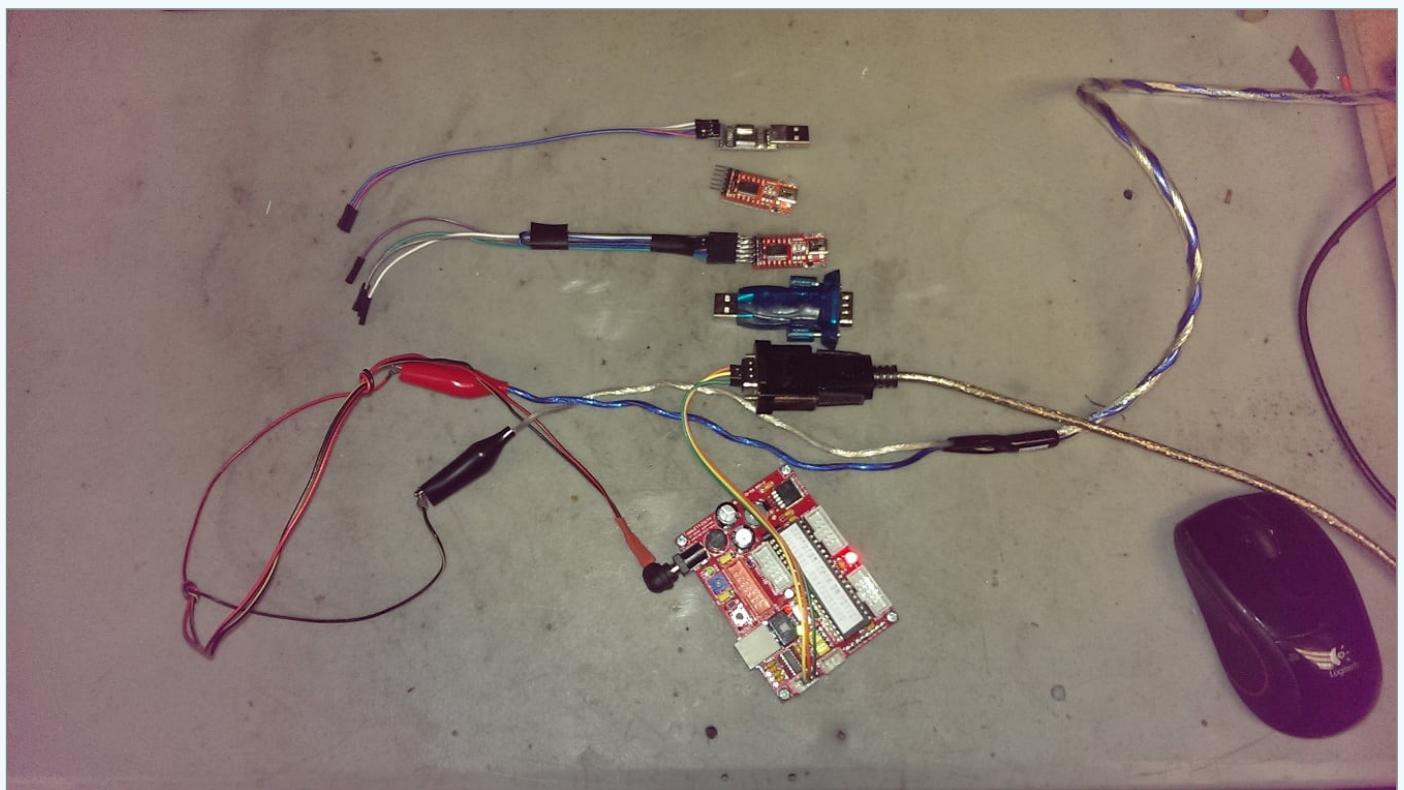
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I had a few problems

the first as I understood my laptop does not have ground wire ... I started using a desktop PC the noise was gone ...

there was also a problem with cheap RS232 Serial Port from 5 different worked only one



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