 HybridZ > Technical > Engine Components > EMS > MegaSquirt
 LS1 MegaSquirt Install

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MegaSquirt Discussions of technical related subjects pertaining to the MegaSquirt FI system.

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August 15th, 2007, 10:50 AM   #**21**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

I am very close to having this running correctly. I have spent the last two weeks working out issues with the new 029y4 code and the LS1 sensors. The car has been running, but the trigger inputs are not decoded correctly so RPM is not steady and therefore it doesn't run very good.

I finally completed experiments last night that are very promising, so I am building a little extra circuitry and should be running 100%.
_____
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www.diyautotune.com

Quote

August 20th, 2007, 12:52 PM   #**22**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

Fixed 3 things and now I get steady rpm and the car is running pretty good. I am working on tuning now. I updated the settings in this thread to reflect what I found.

1. I had a bad opto transistor, it finally quit all together.
2. I had some settings wrong in megatune.
3. I had a bunch of higher frequency noise all over my MS setup. I added bypassing caps to the following wires on the relay board (.01uF and .22uF): battery 12volt, switched 12v, crank sensor input, cam sensor input, injector bank 1 control, injector bank 2 control.

Now I am going to install the knocksense module to monitor while tuning.

Also, I get a little bit of popping out the pipe at about 80kpa and 2000rpm. Could that happen if I'm too rich, it is definitely rich right now as I am just starting tuning.
_____
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August 21st, 2007, 10:35 AM   #**23**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

Found the problem with the popping, I had a bad plug after all the troubleshooting. Replaced that last night and now it runs great. I think I am now comfortable in saying that the writeup in this thread works.
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May 27th, 2008, 02:47 PM   #**24**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

An update to the LS1 megasquirt notes was that the .01uf cap needs to be installed directly on pin 11 of the processor (to gnd). The tach input pin (14) already has a .01uf cap on it from the original circuit.
_____
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March 2nd, 2009, 06:10 PM   #**25**

240_to_miata
Junior Member

Join Date: Feb 2009
Location: CT
Posts: 4

would you mind posting up your .msq

March 3rd, 2009, 11:36 AM   #**26**

mobythevan
Swabbing The Deck

OK, I'll try the attachement feature here. This zip files has two msq files, both work with HiRes10e code. That is what I run on all my cars right now. One msq is for gas, the other for e85. My car has 150lb injectors so

you will need to change virtually all of the settings to make this files work. Warmups, accell, ASE, cranking PW, required fuel, etc. But at least it will give people a starting point.

EDIT: I can't get the zip file to attach, the manager says upload failed every time.

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

_____
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March 3rd, 2009, 01:11 PM   #**27**

240_to_miata
Junior Member

Join Date: Feb 2009
Location: CT
Posts: 4

no problem. im familiar with Megasquirt, my miata is running MS1 right now.

Just tryin to grab these for a buddy.

My email is fendermaniac1988@gmail.com if you prefer to send it that way

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March 4th, 2009, 10:37 AM   #**28**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

Ha ha, it worked today. Let me know if you can download them and view them.

Also, I will be making some updates to the LS1 writeup soon. I am doing a second setup and I will refine the instructions and give some more details about the board mods I did and wiring harness color codes. This second setup is a v3.0 board so I will be able to provide instructions for both v2.2 and v3.0 mods.

┌─ Attached Files ──────────────────────────────────┐
│   📁 msqfiles.zip (11.1 KB, 10 views)   │
└──┘

_____
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www.diyautotune.com

March 4th, 2009, 10:46 AM   #**29**

240_to_miata
Junior Member

Join Date: Feb 2009
Location: CT
Posts: 4

files opened perfectly

are those really your AFR targets?????????????/ jeez
and how much boost are you running.. your maps are only scaled to 7psi?

Thanks for all your help. That writeup for the hardware assembly for v.30 board would save me A LOT of research and headaches.

March 4th, 2009, 02:28 PM   #**30**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

I'm not running any boost, my turbo is bad. That was the AFR targets I entered to begin tuning, but never got to tuning yet because the turbo took a dump. What you don't like 11.0 everywhere? 😈 ha ha. That is why I never posted msq files before because they are in such a state of no tuning that somebody that doesn't know better is going to have problems.
_____
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March 4th, 2009, 04:55 PM   #**31**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

I am in the process of updating this thread because I have received a bunch of emails lately about megasquirt on the LS1. I moved the installation write up to the top post and also put the msq files in the top post. I will be updating for v3.0 board mods shortly. I also stuck this thread because I had more than one copy and I am just linking everyone here now.
_____
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March 13th, 2009, 04:21 PM   #**32**

gearheadstik
Member

Join Date: Dec 2005
Location: Dothan Alabama
Posts: 309

Did your stock Ls1 purge valve end up working ok for the Fidle?
_____
1972 ls1 t56...under construction 🙂   http://album.hybridz.org/showgallery.php?cat=713
1978 l28 5spd...NA-Turbo HE-351 MS&S Extra, EDIS 😲
http://album.hybridz.org/showgallery.php?cat=714
1988 300zx turbo

March 13th, 2009, 04:27 PM   #**33**

mobythevan
Swabbing The Deck

No, it is too small and does not move enough air. I have had good luck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

with air valves from an rx7 that are as big as the brake booster line.

Also, I am verifying the correct spark setup and trigger return tomorrow morning to remove the last quirks from my write up. I will update after the tests.
_____
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March 16th, 2009, 10:21 AM   #**34**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

I was able to verify the new spark and coil wiring works. The trigger return also works. I have made the updates to the document in post #1 and attached the new msq files. Enjoy!
_____
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www.diyautotune.com

September 18th, 2009, 01:20 PM   #**35**

mobythevan
Swabbing The Deck

Join Date: Jan 2002
Location: Aboard the Pequod
Posts: 1,886

Made an update to crank sensor input mods on v2.2 boards. I did not include instructions for all the components that need to be removed.
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www.diyautotune.com

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Faster7

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All times are GMT -5. The time now is 07:56 AM.

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