

HarleyDroid cable

stelian42 edited this page on 8 Nov 2011 · 3 revisions

You can choose between:

- if you already have a Screamin' Eagle Pro Super Tuner cable (PN 32184-08) you can directly buy this connector which plugs between the cable and the ELM327 module :
<http://www.obd2cables.com/products/catalogsearch/result/?q=280101>
- a simple straight cable, easiest to build
- a slightly more complicated one where the power from the bike is backuped by a 9V battery, making HarleyDroid able to capture the bike startup/shutdown events.
- a variation of the above where the battery backup is only used for a specific delay before cutting off all power (so you don't have to worry to physically disconnect the ELM327) (to be done)

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<https://github.com/stelian42/HarleyDroid/wiki/HarleyDroid-cable>

Simple cable

A simple straight cable, powering the ELM327 directly from the ignition power.

Part list

- 1 x Deutsch terminal connector DT064S-CE06 (or HD 72114-94BK)
- 1 x Deutsch wedge lock W4S-P012 (or HD 72154-94)
- 3 x Deutsch pin socket 0462-201-16141 (or HD 72191-94)
- 18 AWG (0.75mm²) 3-Wire cable
- 1 x J1979 female connector (automotive shops)

Schematics

Harley data port	16 pin J1979 connector (ELM327)

(x) 1	
(brown) 2	----- ground ----- 4 and 5 (ground)
(green) 3	----- data ----- 2 (J1850+)
(white) 4	----- +12V ----- 16 (+12V)

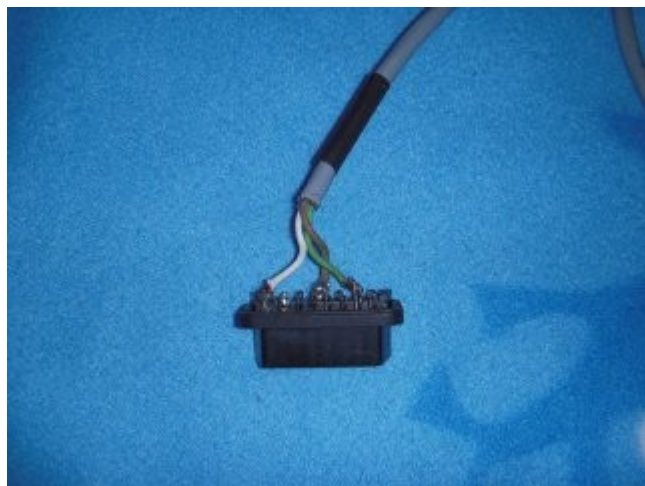
Pictures



[Simple Cable 1 - Larger image](#)



[Simple Cable 2 - Larger image](#)



[Simple Cable 3 - Larger image](#)



[Simple Cable 4 - Larger image](#)

9V Battery backedup cable

This version of the cable powers the ELM327 from either the ignition power on the bike or a 9V battery when the ignition power is missing (this enables capturing startup events).

Remember to physically disconnect the ELM327 when you're no longer using it, or it will drain all the power from the 9V battery.

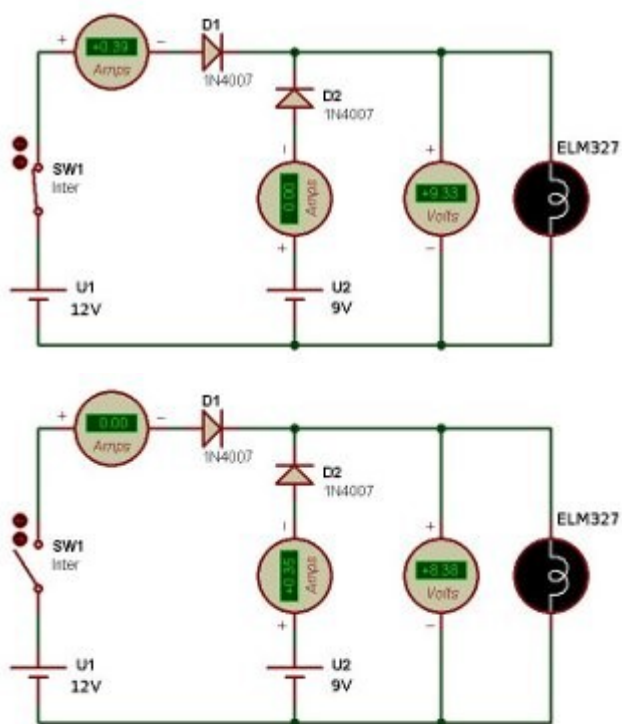
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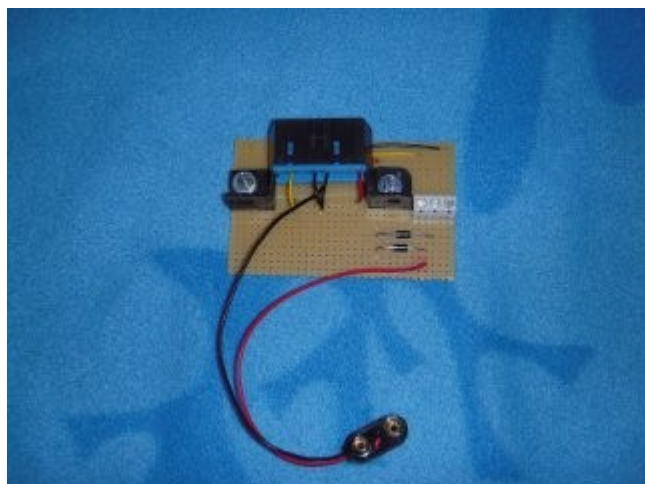
- 1 x J1979 female connector (automotive shops)
- 2 x 1N4007 diodes
- test PCB, plastic box, etc. as needed

Schematics

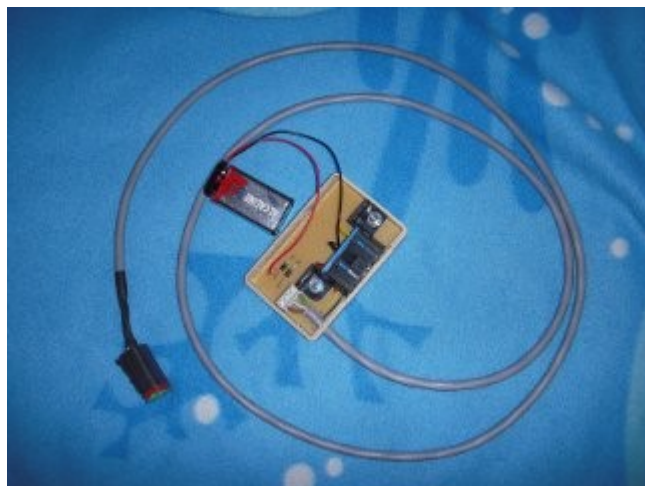
The cable is the same as above, only the power (+12V) and the ground are routed through the diodes:



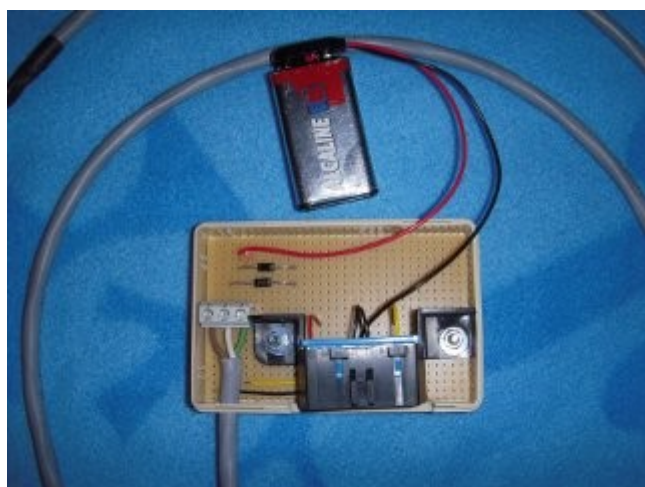
Pictures



[Backped Cable 1 - Larger image](#)



[Backuped Cable 2 - Larger image](#)



[Backuped Cable 3 - Larger image](#)



[Backuped Cable 4 - Larger image](#)



[Backuped Cable 5 - Larger image](#)



[Backuped Cable 6 - Larger image](#)



[Backuped Cable 7 - Larger image](#)