

Re: Need help designing an automotive engine run detector.

Re: Need help designing an automotive engine run detector.

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2007-10/msg01587.html>

- *From:* Gerbermultit001@xxxxxxxxxx
 - *Date:* Tue, 09 Oct 2007 20:11:04 -0000
-

On Oct 8, 10:38 pm, Jeff Liebermann <je...@xxxxxxxxxx> wrote:

Bad idea. You're bypassing the entire fuse and breaker protection mechanisms in the vehicle. You would need to attach a fuse directly to the positive terminal of the battery, a non-trivial exercise. You're worried about the GUM (great unwashed masses) doing a proper install, yet you don't seem to be worried about the same person is going to get a wrench between the positive terminal and ground, with the resultant smoke, fire, burns, and litigation.

Bad idea? Hmmm, I wonder how the high powered car amplifier market gets by. They sell millions of those things a year. Perhaps because they do not actually supply the wiring? Similar case to the electric hedge cutters. Ever see one lately with a corded pigtail for power? No? That's because some fool probably cut through the supplied pigtail, sued them, and won. So, to counteract, the guys making the hedge cutters molded a plug into their handle. Now if the fool cuts through the cord, they need to sue the extension cord maker :).

I'll let our lawyers determine if we supply wiring, fuses harness to connect to VBAT, etc... Or if we play it on the safe side and make it the customers responsibility to supply these goods.

Yep. That's the worst case scenario for electronics. Roughly -40C to +105C. Don't forget about water proofing and high voltage spikes on the power lines.

I design underhood electronics to survive all know electrical system faults and SAE-J1113-11 transients at +125C

When activated this product will draw about 5 amp.

Re: Need help designing an automotive engine run detector.

Re: Need help designing an automotive engine run detector.

75 watts? Where are you going to empty out the heat?

Product design and packaging will take this into account.

Ignition switch. If that's offensive, try the cancer stick igniter, which only has power when the engine is running or the ACC switch is on.

I didn't want to run additional wiring. However, if I have to, IGN would be my 1st choice.

Thanks for your feedback Jeff.

Ge0

.