

PHEV Balancer/BMS User Guide

Congratulations on using Pacific EV's BMS for Enginer plug-in kits. During regular operation no user intervention is required, so you can drive it like a normal Prius except for plugging in at home. The system is fully automatic. There are some caveats if you end up not using the car for many days.

Do not leave your PHEV pack uncharged longer than necessary. Once or twice in a row will cause no damage, but if you make a regular habit of not charging, not only will you not be making use of your PHEV pack, but several days of use without charging will begin to damage the battery pack.

If the car is going to sit unused for 3-12 days, you must charge the battery to full first before letting it sit. For example, if you are driving to the airport and will be parked a week, turn off your PHEV switch before leaving home so the PHEV battery will be full when you park it.

If the car is going to sit unused for more than 12 days, then the BMS system must be disconnected from the batteries. The batteries should be fully charged first. To disconnect the BMS system you must unplug two 9-pin connectors from the balancer boards. The balancer boards are the green boards with the small computer screen on them. These are typically inside your PHEV box. Once you have access to the green boards, removing the plugs is as easy as grabbing it with your fingers and pulling out. The connections have eight black wires and one red wire and are labeled "From Batteries" in the below picture.



When you return from vacation, simply plug the two connectors back in and your PHEV is ready to use!