

MIDNITE SOLAR BATTERY CONDITION MONITOR MODIFICATIONS FOR SWITCHED OPERATION

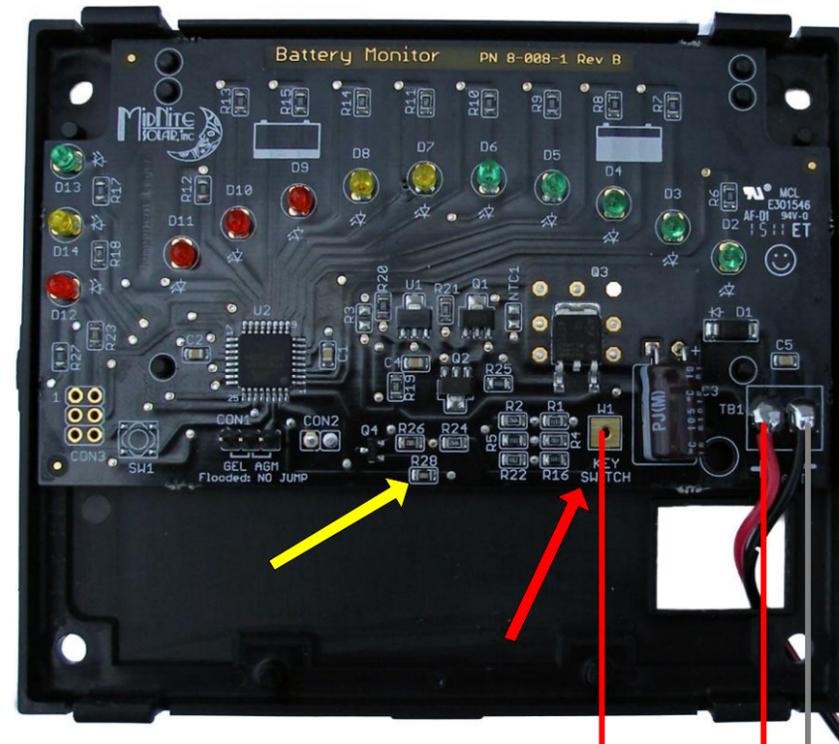
This field modification can be performed on REV B MNBCMs and will allow for the LED indicators for battery state of charge as well as the Battery Maintenance LEDs to be switched off as desired.

The Battery Maintenance settings will be retained.
With the LEDs off, power draw is reduced to 6 ma @ 12 volts

IMPORTANT NOTE

For “Key Switch” operation, your board must look like this one.

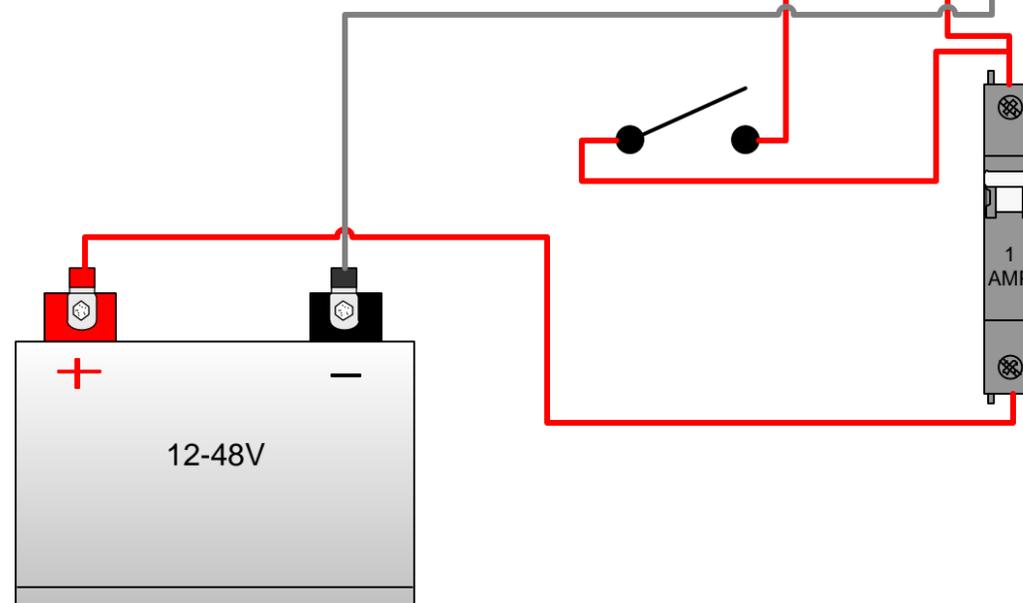
If there is no key switch solder pad as shown (Red Arrow), your BCM cannot be modified. Please contact info@midnitesolar.com and we will arrange a swap for you.



To modify an MNBCM for Key Switch operation, simply remove the “zero ohm” resistor #28 as indicated by the yellow arrow and solder a small gauge wire (#16-22) to the pad indicated by the Red Arrow and labeled “KEY SWITCH”.

This wire is, as shown below, the switched positive supply to the MNBCM and will illuminate all of the appropriate LEDs when power is applied.

Your MNBCM will already have the Red and Black battery leads connected, there is no need to remove these, just add the Key Switch lead.



THE USE OF AN 1-2 AMP FUSE OR BREAKER IN THE BATTERY POSITIVE LEAD IS HIGHLY RECOMMENDED FOR SAFETY