PROBOOST INSTALL GUIDE

BMPRO's ProBoost is a multi-stage DC-to-DC battery charger that enables the charging of a secondary battery using solar panels and/or a towing vehicle's 12V electrical system.

The ProBoost blends both solar and auxiliary inputs to ensure there is always a consistent charge to your battery. The ProBoost is available in two models, the ProBoost25 and the ProBoost40 to suit your charging needs.





Ensure the vehicle engine is turned off to prevent any short circuiting during installation.

Use heat shrinkable tubing on all cables for insulation to prevent short circuits.



Install the ProBoost in any orientation. Ensure the location is well-ventilated with airflow to prevent overheating.

4. VOLTAGE DROP CALCULATION

Scan the below QR code to determine

https://www.calculator.net/v oltage-drop-calculator.html

the voltage drop of your wires.

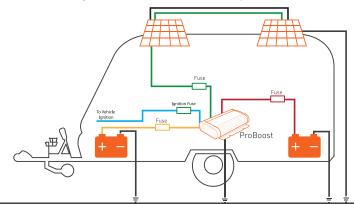
3. CABLE SIZE

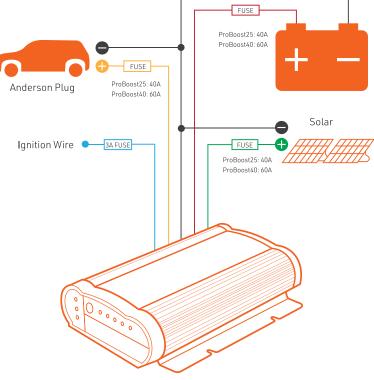
Cable	Cable Colour	<5m	<10m	
Solar	Green			
Alternator	Yellow	ProBoost25: 10 AWG	ProBoost25: 8 AWG	
Output	Red	ProBoost40: 8 AWG	ProBoost40: 6 AWG	
Ground	Black			
Ignition	Blue	20 AWG		

With cables between 10-8 AWG, BN8 Butt Splice Connectors are recommended.

5. WIRING

- 1. Disconnect the negative pole of the starter battery.
- 2. Connect the red cable to the positive pole of the AUX battery.
- Either connect the black cable to the negative pole of the AUX battery or connect both AUX battery negative terminals and the ProBoost black cable to the vehicle chassis ground.
- 4. Connect the yellow cable to the positive pole of starter battery.
- 5. Smart alternators: connect the blue cable to the ignition terminal of the vehicle (usually in the fuse box). If you do not have a smart alternator, leave the blue cable disconnected.
- 6. Solar panels: connect the green cable to the positive pole of the solar panel. Connect the negative terminal of the solar panel to the ProBoost black cable cable or vehicle chassis ground. If you do not have solar panels, leave the green cable disconnected.
- 7. Restore the negative connection of the battery

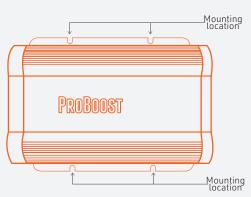












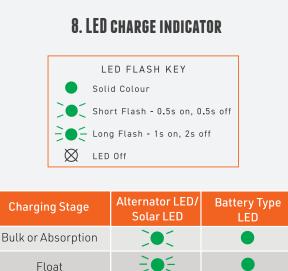
2. MOUNTING

Securely mount the ProBoost to any strong flat surface, preferably close to the auxiliary battery.

6. FUSING

Cable	Cable Colour	Fuse Recommendation			
Cable		ProBoost25	ProBoost40		
Solar	Green		60A		
Alternator	Yellow	40A			
Output	Red				
Ignition	Blue	3,	4		

Fuses should be connected in series in circuit. Bolt down fuses are preferred. Blade type fuses and self-resetting circuit breakers are not recommended.



The LEDs on the ProBoost will illuminate to indicate the current charging stage. The flashing LED indicates the charging source (either alternator or solar). If both the alternator and solar LEDs are flashing, the charging source is from both the alternator and solar.

7. BATTERY TYPE SELECTION



Once installed, the battery type must be selected for the ProBoost to charge correctly. Press the Mode button until the LED is lit for the correct battery type.

9. LED FAULT INDICATOR



Fault	Alernator LED	Solar LED	Battery Type LED	Fault LED	Solution
Low voltage detected at alternator input*	€•€	Ø	305	Ø	-Check battery voltage -Check if the battery is connected, or if there are broken cable connections at the battery
Low voltage detected at solar input	Ø	305	305	Ø	Check solar voltage
Low voltage detected at alternator or solar input	305	305	305	Ø	Check voltage at both alternator and solar panel
Overvoltage detected at output	\boxtimes	Ø	305	305	Check auxiliary battery voltage and cable connections
High voltage detected at alternator output	305	Ø	Ø	305	Check battery voltage
High voltage detected at solar output	Ø	30€	Ø	305	Check solar voltage
Overtemperature	Ø	\boxtimes	Ø	305	Let theunit cool down or find a more ventilated area





PROBOOST MANUA





