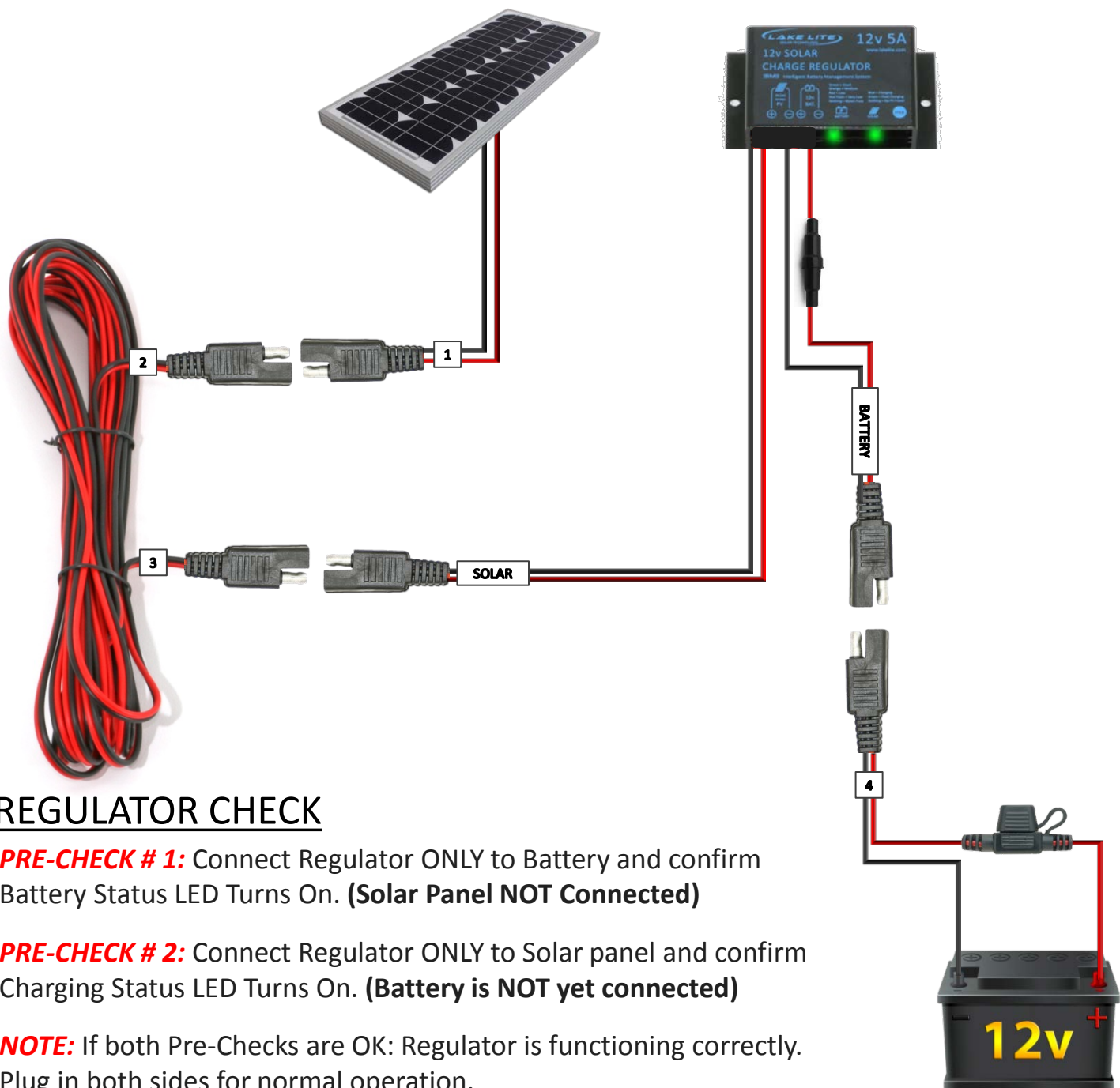


Solar Charge Regulator

MODELS: LL-REG-12v-5A-PB



REGULATOR CHECK

PRE-CHECK # 1: Connect Regulator ONLY to Battery and confirm Battery Status LED Turns On. **(Solar Panel NOT Connected)**

PRE-CHECK # 2: Connect Regulator ONLY to Solar panel and confirm Charging Status LED Turns On. **(Battery is NOT yet connected)**

NOTE: If both Pre-Checks are OK: Regulator is functioning correctly. Plug in both sides for normal operation.

FLASHING RED BATTERY LED: Likely result of a blown fuse, or missing spring within the fuse holder. Check/Replace

WARNING: Reverse connection will result in blown glass tube fuse:

NOTE: glass tube fuse may disconnect under metal caps of fuse and may be difficult to visibly see that its blown/broken. If in doubt,

replace.



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Solar Charge Regulator

MODELS: LL-REG-12v-5A-PB



12v Systems ONLY

BATTERY



CHARGING

TIME	LED COLOR	DESCRIPTION
Any	RED - FLASHING	Extremely Low Battery OR (BLOWN FUSE) <i>OR (Backwards / No Connection)</i>
Any	RED - CONSTANT	Very Low Battery Level – Limit Battery Use
Any	ORANGE - CONSTANT	Medium Battery Level – Charge Battery
Any	GREEN - CONSTANT	High Battery Level – Good!
ANY	GREEN - FLASHING	Over Voltage Detected: Regulator will correct back to Green-Constant to protect battery:
ANY	OFF	Blown Fuse and or No Battery Detected Replace Fuse or Connect Battery

TIME	LED COLOR	DESCRIPTION
DAY	BLUE - CONSTANT	(Charging) Fast Charging or Bulk Charging
DAY	GREEN-CONSTANT	Float Charging
DAY	OFF	Check Solar Panel (Shorted / Bad or No Connection / Bad Diode)
NIGHT	OFF	<i>Solar Panel is NOT Charging</i>

PRE-CHECK # 1: Connect Regulator ONLY to Battery and confirm Battery Status LED Turns On.

* **NOTE (Solar Panel NOT Connected)**

PRE-CHECK # 2: Connect Regulator ONLY to Solar panel and confirm Charging Status LED Turns On.

* **NOTE (Battery is NOT connected)**

NOTE: If both Pre-Checks are OK: Regulator is functioning correctly.

FLASHING RED BATTERY LED: Likely result of a blown fuse, or missing spring within the fuse holder. Check/Replace.

Reverse Battery	Reverse Solar Panel	System Result
YES	NO	Fuse will be Blown – (Correct & Replace Fuse)
NO	YES	NO CHARGING – (Correct Solar Connection)
YES	YES	Fuse will be Blown – (Correct & Replace Fuse)



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