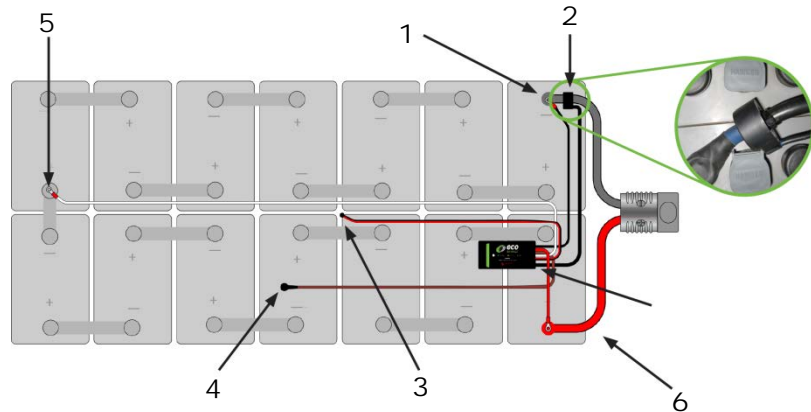


BEFORE PROCEEDING WITH DRILLING AND/OR MOUNTING, ENSURE ALL CABLES AND WIRES WILL REACH!

The numbered figure to the right is for your reference when installing the BMMBT module.

Step 4 (Electrolyte Sensor Probe)
Has more reference points which are below this figure.



#1 NEGATIVE DC SUPPLY (Black Wire of battery system)

Using a 3/16" drill bit, drill a 1/4" deep hole in the Negative Cable Post. Install brass insert, then fasten Black wire with the (6/32" x 1/4") screw.

#2 COMMUNICATION & CURRENT SENSING TOROID (Black Wire attached to toroid)

Carefully remove the negative cable from the connector (if applicable). Slide the toroid as close as you can to the Negative Cable Post, with its "cable support tab" facing away from the battery post. Secure toroid in place with provide cable tie.

#3 TEMPERATURE SENSOR (Dual Wire : Red Wire & Half-Red / Half-Black Wire)

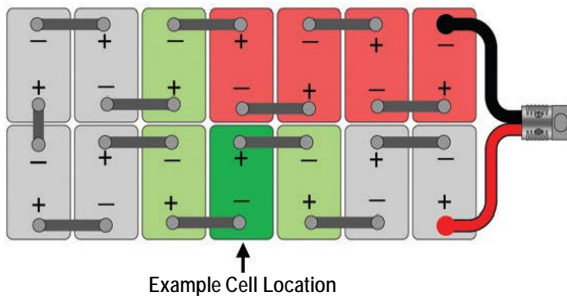
Locate the "most center" cell, jar cover. Ensure the top of the cell is clean by using the supplied cleaning towelette. Secure the Temperature Sensor to the jar cover with the supplied adhesive tape.

#4 ELECTROLYTE SENSOR PROBE (Brown Wire attached to Sensor Probe)

Using a 3/8" drill bit, drill a hole in the center of the jar cover.
Please reference the below figures and text for further detailed instructions.

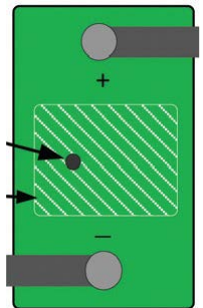
Step 4 – Reference 1

Probe should be installed in the cell nearest to the center of the battery, staying at least 5-cells away from the negative cable.



By using a 3/8" drill bit, drill a hole in the center of the jar cover staying in the recommended safe drilling area shown in guide.

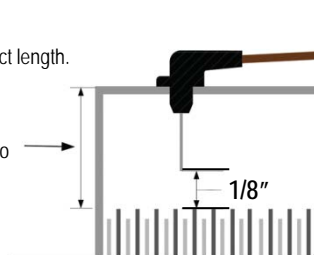
Recommended safe drilling area



Step 4 – Reference 2

Use wire cutters to trim the probe to the correct length.

Keep the probe 1/8" above the separator. It is recommended that you measure first, the distance from the top of the cell cover, down to the separator using a non-conductive measuring tool.



#5 MIDPOINT VOLTAGE SENSOR (White Wire)

Using a 3/16" drill bit, drill a 1/4" deep hole in the intercell connector on the cell's positive side. Install brass insert, then fasten white wire with the (6/32" x 1/4") screw.

#6 POSITIVE DC SUPPLY (Red Wire)

Using a 3/16" drill bit, drill a 1/4" deep hole in the intercell connector on the cell's positive side. Install brass insert, then fasten white wire with the (6/32" x 1/4") screw.

When your Installation is complete, ensure to coat all screws with "Battery Protector" that is supplied in the installation Kit.
Please refer to your OPERATORS MANUAL to finish programming and setting up your BMMBT module.

LED Function Indicator

The BMMBT Modules indicates various states of operation via a 4 color LED on top surface of module.



Green LED: Standby

- Flashes once every 2 seconds to indicate ready to Charge standby status.



Yellow LED: Comms

- Flashes once every 2 seconds when connected to a battery, with a double flash every 2 seconds when communicating with the charger connection.



Red LED: Comms

- Flashes once every second for water Level Alarm.
- Once every 3 seconds for Temperature Alarm.
- Once every 5 seconds for Voltage Imbalance Alarm.



Blue LED: Comm

- Blue indicates Blue tooth communication link is connected to a device near by (within 33ft. distance).

Troubleshooting guide

Problem	Possible Cause	Remedy
Water Level Alarm	Electrolyte Sensor indicating low cell electrolyte levels.	First ensure the battery has reached 100% SOC before watering. Check installation of the sensor probe is as described in the quick installation guide. If not, the electrolyte sensor may have been removed from the BMMBT module during installation.
Temperature Alarm	Temperature sensors indicating outside the range specified in the BMMBT module configuration	Check installation of remote temperature sensor is as described from the quick installation guide.
Voltage imbalance Alarm	Sensor at the voltage midpoint on the battery indicating 0.5V outside the half battery voltage.	The BMMBT module will automatically schedules an equalize charge on this alarm occurrence. Regular occurrence indicates poor battery condition or incorrect installation. Check quick installation guide.
Charger Indicates config error	Communications toroid may be installed incorrectly	Ensure installation is as described in the quick installation guide.
No Charger comms/ No LED activity	DC supply terminals loose corroded	Ensure terminal are routinely check for secure fit and clean, corrosion free condition. Always follow battery maintenance guidelines.