

"On the Run" Battery Charging of Electric Trolling Motor Batteries

BASS MAXX II

12/24/36 Volt



Thank you for purchasing the BassMaxx II. We are confident this product will help increase your trolling motor battery life, allowing you to spend more time fishing.

We are proud of this patented system. The BassMaxx II is designed and built in America.

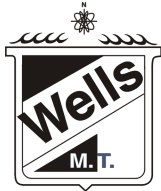
Thank You, Wells Marine Tech.

www.wellsmarinetech.com

Before installing unit, please carefully look over Installation Guide.

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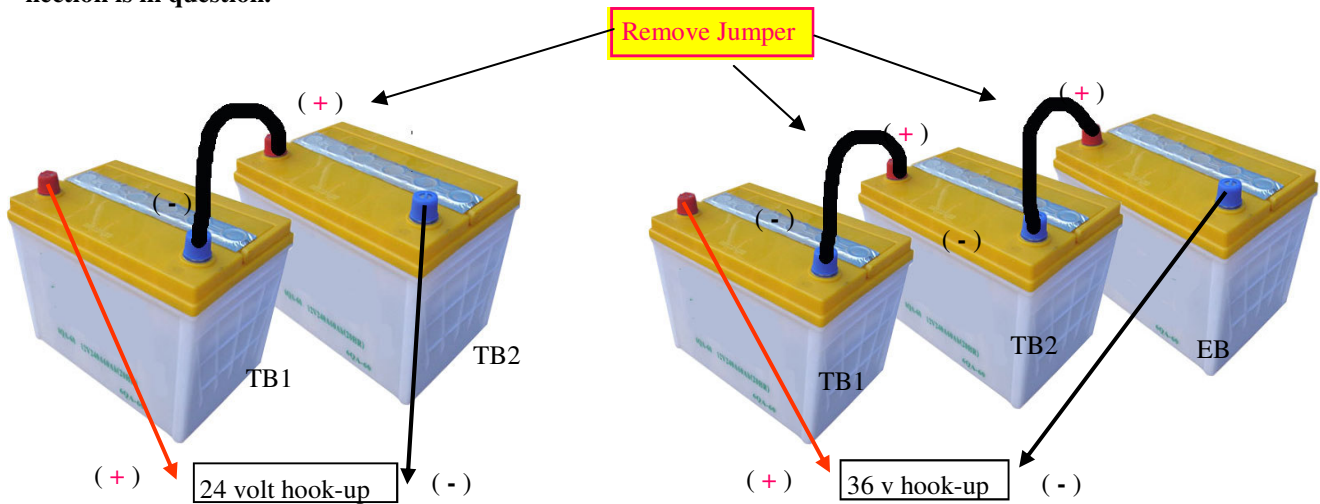
BassMaxx II

Installation Guide : BassMaxx II “On The Run” 12 / 24 / 36 Volt System

IMPORTANT:

Please remove the 24V or 36V series connection that the batteries may be wired in.

The BassMaxx II will not be able to operate until this series connection is removed. The location of this connection may vary depending on the boat manufacturer. Please contact the manufacturer, or your dealer if the series connection is in question.



Additional areas to check for battery jumpers / straps. Wiring maybe located in older trolling motors.

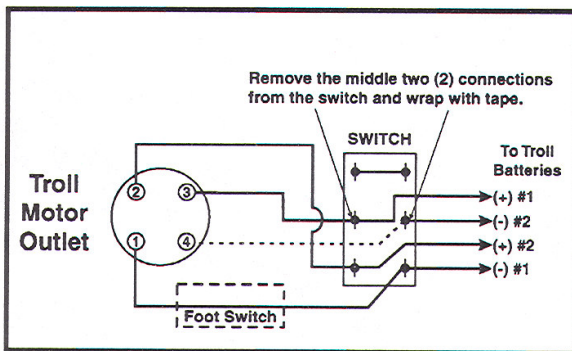


Diagram #1

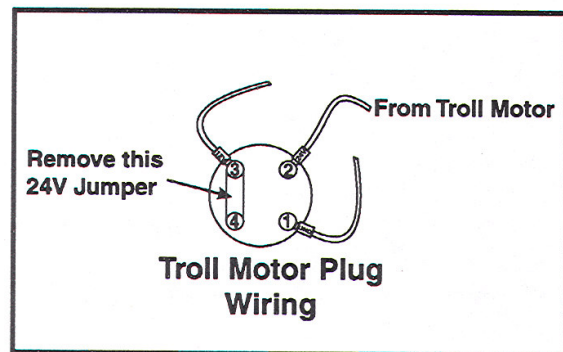


Diagram #2

IMPORTANT

The proper way to tighten nuts on the Automatic Battery System uses two wrenches as shown below— **DO NOT USE ONE WRENCH!**



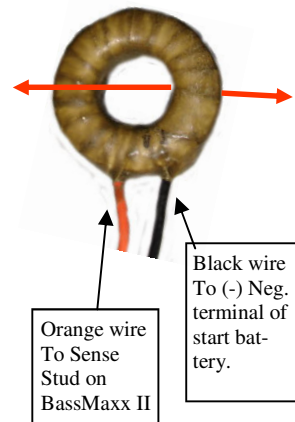
Improper use of a single wrench or over tightening of the terminal can cause the terminal to turn and break connections inside the unit. This could cause wiring to shorts and/or system failure.

INSTALLATION INSTRUCTIONS FOR INBOARD APPLICATION

SENSOR PLACEMENT

1. The (B+) alternator charge wire, on most inboard engines, is tied from the alternator to the battery (+) terminal on your starter. Remove one end of this wire and pass it through the hole in the center of the sensor donut. Don't put any other wires through this hole! If the positive alternator wire runs directly to the positive start battery you must place the sensor donut on that wire between the alternator and the battery.
2. Connect the black lead from the sensor donut to the negative (-) side of the start battery then connect the orange lead to the (Sense) stud on the BassMaxx II.

These leads may be extended if required.



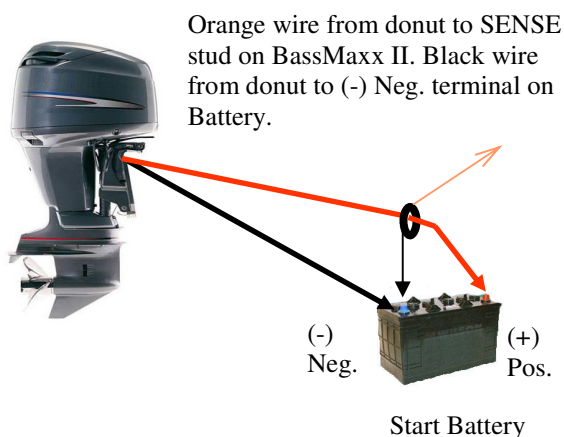
INSTALLATION INSTRUCTIONS FOR OUTBOARD APPLICATION

SENSOR PLACEMENT

1. Disconnect the positive (+) power lead from the engine to the start battery, slide the sensor donut over the lead, secure the sensor donut with the supplied cable tie and reconnect the lead to the start battery.
2. Connect the black lead from the sensor donut to the negative (-) side of the start battery then connect the orange lead to the (Sense) stud on the BassMaxx II. These leads may be extended if required.

Note: For TWIN ENGINE applications, repeat steps # 1 and # 2 for the second engine and Start Battery.

Pass the engine positive wire through the sensor donut and re-connect to the positive of the Engine Start Battery. The Negative engine wire will go directly to the negative side of the engine Start Battery.



Length of conductor from Source to Device and back to Source in feet.

TOTAL CURRENT ON CIRCUIT IN AMPS.	12 Volts - 3% Drop Wire Sizes (gauge)					
	10	15	20	25	30	40
5	18	16	14	12	12	10
10	14	12	10	10	10	8
15	12	10	10	8	8	6
20	10	10	8	6	6	6
25	10	8	6	6	6	4
30	10	8	6	6	4	4
40	8	6	6	4	4	2
50	6	6	4	4	2	2
60	6	4	4	2	2	1
70	6	4	2	2	1	0
80	6	4	2	2	1	0
90	4	2	2	1	0	2/0
100	4	2	2	1	0	2/0

Wells Marine Technology Suggest:

8 ga. 6 feet and under

6 ga. 6' to 12'

4 ga. 12' to 15'

NOTE: Remove ALL Jumpers / Straps from All Batteries before installing the BassMaxx II

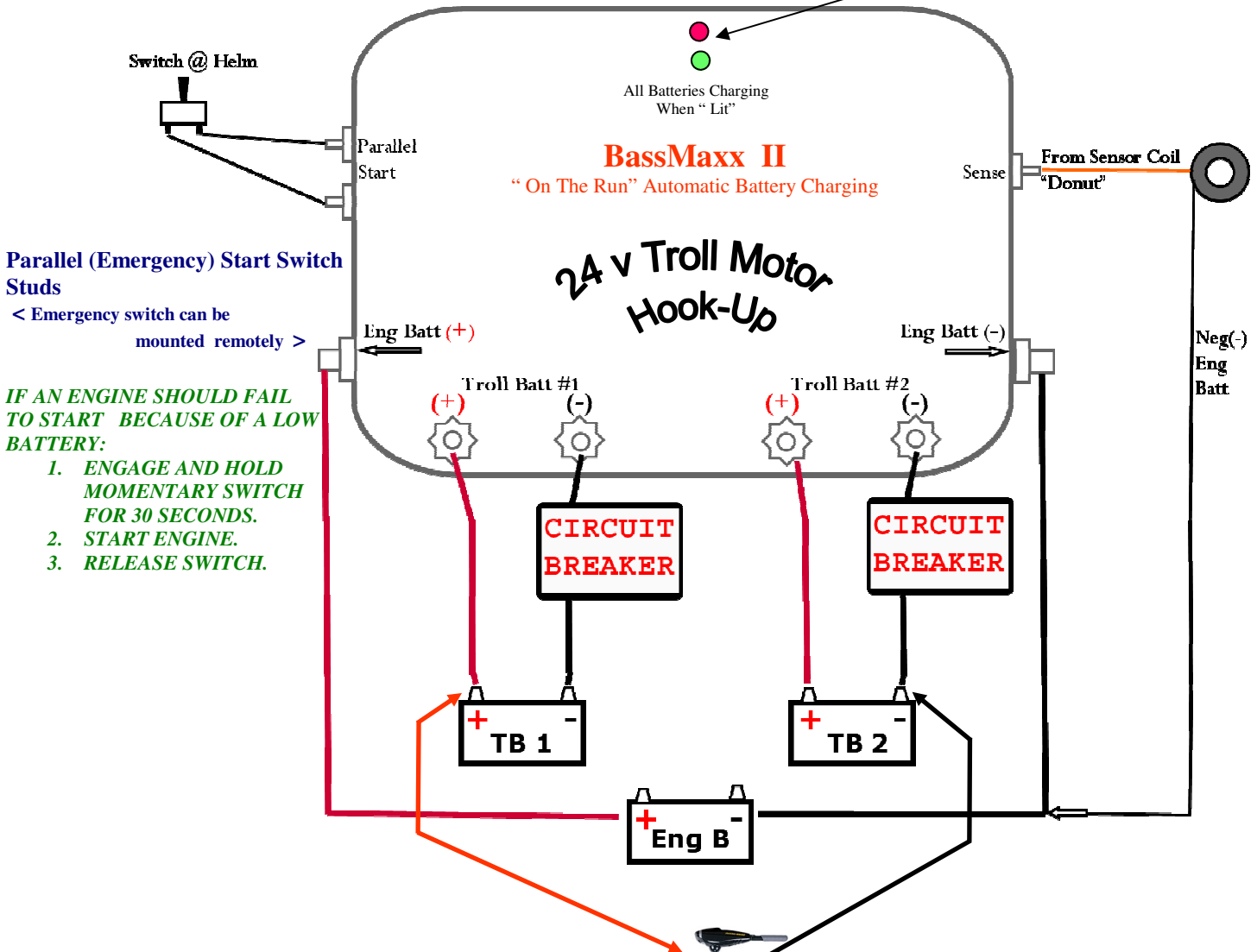
Please review the drawing below while installing your 24 volt trolling motor to the proper battery terminals, .

Please remember to insert the enclosed circuit breakers.

The circuit breakers will help protect the relays inside the BassMaxx II in case of improper installation. Never use "Spring Clips / Clamps" to install battery cables.

Installation Diagram

Red Light = Wiring Problem
Green Light= Batteries Charging.



Parallel (Emergency) Start Switch Studs
< Emergency switch can be mounted remotely >

IF AN ENGINE SHOULD FAIL TO START BECAUSE OF A LOW BATTERY:

1. ENGAGE AND HOLD MOMENTARY SWITCH FOR 30 SECONDS.
2. START ENGINE.
3. RELEASE SWITCH.

TESTING YOUR SYSTEM

After Installing the BassMaxx II Place a jumper or switch across the "Parallel Start" contacts and check to see that the "Green" charging LED is lit. If the "Red" led lights when closing the "Parallel Start" contacts. Check wiring, make sure all Battery Jumpers are removed. Then retest.

Please note where the Trolling Motor wires connect to the batteries.



NOTE: Remove ALL Jumpers / Straps from All Batteries before installing the BassMaxx II

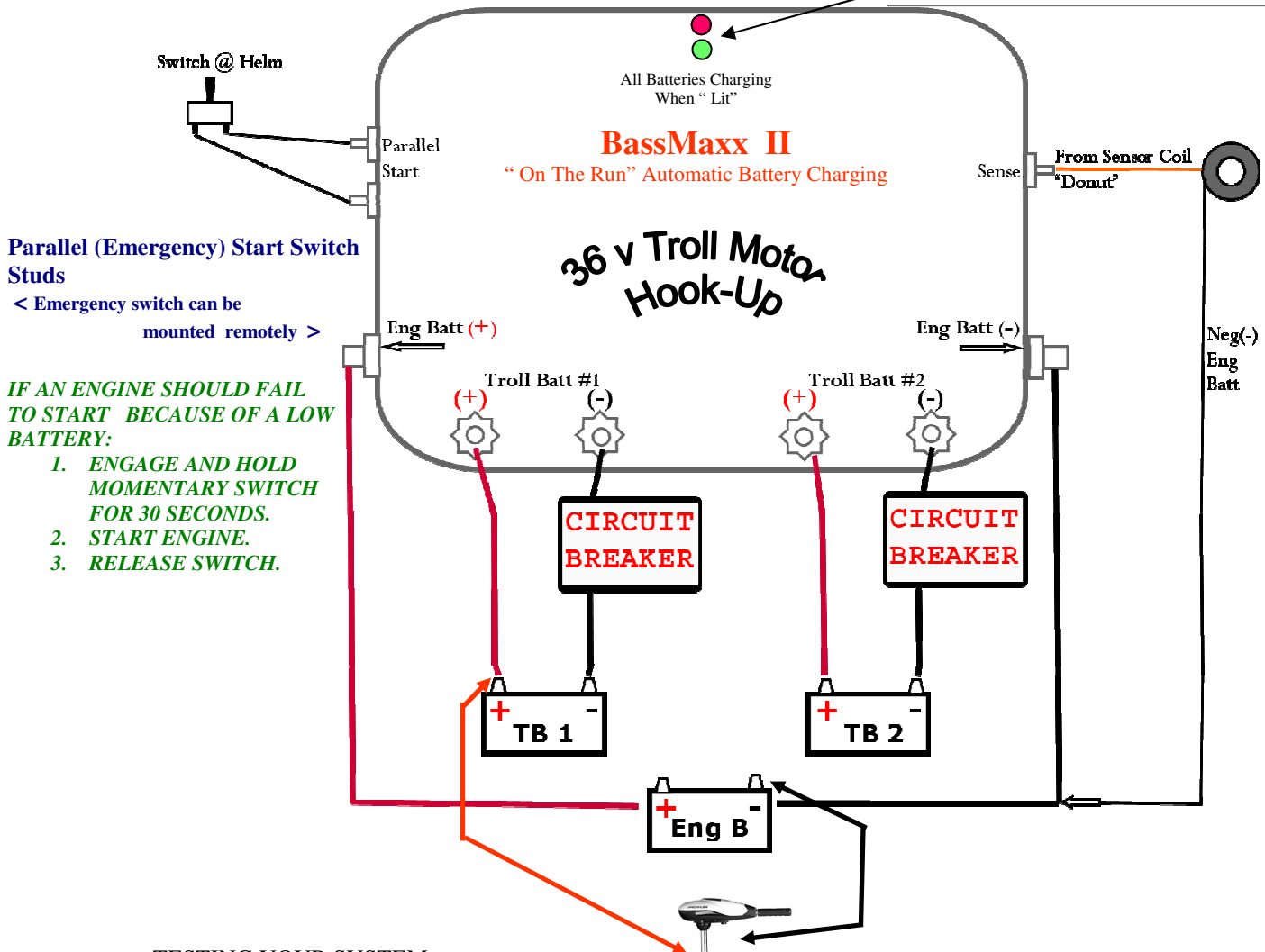
Please review the drawing below while installing your 36 volt trolling motor to the proper battery terminals, .



Please remember to insert the enclosed circuit breakers.
The circuit breakers will help protect the relays inside the BassMaxx II in case of improper installation. Never use "Spring Clips / Clamps" to install battery cables.

Red Light = Wiring Problem
Green Light = Batteries Charging.

Installation Diagram



Parallel (Emergency) Start Switch Studs
< Emergency switch can be mounted remotely >

- IF AN ENGINE SHOULD FAIL TO START BECAUSE OF A LOW BATTERY:**
1. ENGAGE AND HOLD MOMENTARY SWITCH FOR 30 SECONDS.
 2. START ENGINE.
 3. RELEASE SWITCH.

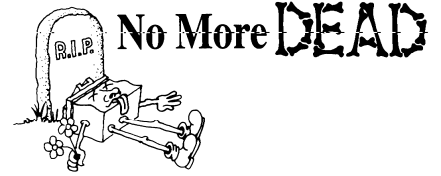
TESTING YOUR SYSTEM

After Installing the BassMaxx II Place a jumper or switch across the "Parallel Start" contacts and check to see that the "Green" charging LED is lit. If the "Red" led lights when closing the "Parallel Start" contacts. Check wiring, make sure all Battery Jumpers are removed. Then retest.

Please note where the Trolling Motor wires connect to the batteries.



36 v Troll Motor hook-up.



How the BassMaxx II Works:

The most efficient way to charge multiple battery banks from a single charge source is by paralleling the battery banks.

After the BassMaxx II is wired to the batteries and with NO charge source (Alternator, Battery charger) involved, the BassMaxx II will deliver the Trolling Motor Voltage (12, 24, or 36) to the Trolling Motor Batteries. **No indicator light will be on.**

When the gas outboard is started, the Trolling Motor batteries are disconnected automatically from their 24 / 36 Volt configurations and placed in **parallel** with the outboard crank battery. All three batteries are charged in parallel while the outboard is running; **the green indicator light will be on.** After the engine stops, the battery connections return to 24 / 36 volt configuration and the **green indicator light will be off.**

Frequently Asked Questions:

Q. *Why do I remove the 24 or 36-volt series connections (jumper)?*

A. The BassMaxx II must be able to connect the batteries in **parallel** for charging when a charge source is present (alternator, battery charger). The BassMaxx II does this automatically in its normal course of operation. If the series connection is left in, the BassMaxx II cannot parallel the batteries for charging.

Q. *Will my Trolling Motor still work if I remove the series connections?*

A. Yes. The BassMaxx II will automatically replace the series connection when the charge source is removed (turning off engine or battery charger.)

Q. *What is the sensor coil (donut) for?*

A. The sensor coil detects AC charge current as it comes from the engine alternator to the start battery. When charge current is detected a 'signal' is sent to the BassMaxx II circuit. When the circuit knows there is a charge source present it will use the relays inside the BassMaxx II to place the batteries in **parallel** to be charged. When the charge source is turned 'off' and no current passes through the sensor coil the BassMaxx II uses the relays inside the unit to place the batteries in 'series' for Trolling Motor use.

Q. *How much more Trolling Motor Battery life can I expect?*

A. This will depend mainly on two things:

1. How much you run the main engine during the course of the fishing day. The more the engine runs while changing fishing locations, the more charge is delivered to the batteries.
2. The main engine alternator output (amps). Most outboard engines 150hp and up have big alternator output (50-60 amps or more.) Of course, the engine RPM is also a determining factor.



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**WELLS MARINE
TECHNOLOGY**



THE POSITIVE POWER PEOPLE



Please visit our website:

www.wellsmarinetech.com

Fish Longer with Wells Products.



**** Optional Companion Product ****

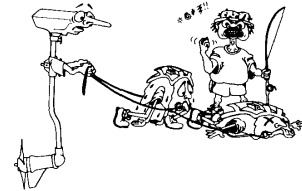
Before you tow your boat— Pick— up a Hitch'Hyker!

This revolutionary new product, when used with the BassMaxx System, will charge all your batteries in your boat while you are towing it.

This system, when wired from the tow vehicle alternator to the boat, activates the BassMaxx System onboard and automatically enable it to accept charge from the towing vehicle.



**NO MORE DEAD
BATTERIES !**



The Hitch-Hiker:

Charges your boats batteries from your tow vehicle while driving to your fishing location.

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