

# INSTALLATION INSTRUCTIONS

## Batt Maxx & Power Plant



### IMPORTANT BEFORE INSTALLATION!

#### PLEASE READ



We are proud to have our Automatic Battery System on your boat or vehicle. To help insure long lasting, trouble free battery power, it is very important to follow this simple set of instructions.

**Please remove all DC loads from your start batteries. Designate these batteries as dedicated engine starting batteries. Put all other loads on the accessory (house) batteries. This will insure your Automatic Battery System's most important function — to protect the start battery and get your engine running.**

**Never use spring clips on Batt Maxx or Power Plant terminals.**



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 shorts and/or system failure!

### **IMPORTANT**

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

WRONG!



RIGHT!



## Battery Maintenance Tips

1. Loose battery terminals and battery connections cause heat, loss of battery power, and “shorts”, which can damage your electronics, wiring, etc. It is very important that all electrical connections be tight and secure. They must be checked frequently, because motion, vibration, etc. may cause loosening of connections.
2. Wire Size — Be sure you use large enough (gauge) wire for all battery connections and “runs” to equipment.
3. Exposed or “bare” wire, loose tools or “debris” near batteries can get caught in the wiring and cause “shorts”.
4. Keep batteries and adjoining areas clear and free of moisture.



# Wells Marine Technology

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**PRODUCTS DESIGNED AND BUILT WITH PRIDE IN AMERICA.**  
BATMAXX II VOLTSEEKER & POWER PLANT VS  
BATRAXX~ LOW BATTERY EARLY ALERT.  
BASSMAXX~ FOR BASS & FLATS WITH 24 VOLT TROLLING MOTORS.  
T.A.B.S TOTAL AUTOMATIC BATTERY SYSTEM (CUSTOM)  
WELLS MARINE DESIGNS & BUILDS SYSTEMS TO CUSTOMER SPECS.

## IMPORTANT GUIDE FOR CUSTOMERS

**Circuit breakers are not included. We urge you to protect all electrical wiring devices, equipment, etc. with the appropriate circuit breakers.**

ALL WELLS AUTOMATIC BATTERY SYSTEMS MEET U.S.C.G. TITLE 33C FR 183.410 FOR IGNITION PROTECTION

### HOW VOLTSEEKER WORKS:

WHEN THE ENGINE(S) ALTERNATOR, OR BATTERY CHARGER BEGINS TO CHARGE ANY BATTERY (BANK) CONNECTED TO THE VOLTSEEKER, THE AUTOMATIC SYSTEM WILL COMBINE ALL BATTERIES (BANKS) WHEN THE INITIAL BATTERY BEING CHARGED REACHES 13.5 VOLTS. WHEN THE VOLTSEEKER COMBINES, ALL BATTERIES WIRED TO IT WILL BE CHARGED. HOW MUCH CHARGE THE BATTERIES (BANKS) RECEIVE IS CONTROLLED BY THE CHARGE SOURCE VOLTAGE REGULATOR.

WHEN THE VOLTAGE IN ANY BATTERY (BANK) FALLS BELOW 12.6 VOLTS (90%) THE VOLTSEEKER WILL AUTOMATICALLY DISENGAGE THE BATTERIES (BANKS). EACH BATTERY (BANK) WILL NOW BE ISOLATED SO NO DISCHARGE FROM ONE CAN EFFECT ANOTHER.

IN TWIN ENG. APPLICATIONS, ALL BATTERIES WILL BE CHARGED, EVEN IF ONLY ONE ENGINE IS RUNNING

**Note:** It is the responsibility of the installer to maintain the integrity of the wire to be attached to the unit. This means that the wire size of any extensions, additional wire, etc., should be at least as big as the existing vessels or vehicle's wire. This wire should be big enough to pass the current that the engine starter and alternator requires, including "in-rush". If not sure, please contact the vehicle or vessel engine manufacturer.

**NOTE:** On the 175 Amp models the primary terminals are BRONZE. This metal is an excellent conductor and can pass higher current than stainless steel. We use Stainless Steel on the 110 Amp model because it can tolerate harsh environments.

If you are installing the 175 Amp model, we urge you to protect the Bronze terminals with silicone grease or other type of protective spray.

The protectant should be applied after the battery cables are attached, and the terminal is tightened. Place red terminal covers on last. We like to secure the cover with a plastic tie wrap.

## BATTERY CHARGER - INVERTER/CHARGERS

The BM II Voltseeker will work with any battery charger or charger/inverter combination system. A battery charger may be connected directly to the voltseeker, or to the battery bank directly. An inverter/charger unit must be connected directly to the battery bank.

Please note that when any one of the battery(s) is receiving a charge the voltseeker will be "on" as long as the battery(s) are above 12.6 Volts.

The voltseeker will combine the batteries when a charge source raises the voltage above 13.5 volts.

The VS will isolate the batteries when the voltage drops to 12.6 volts.

The voltseeker may cycle "on" & "off" one time when first installed. If the battery(s) are charged above 13.5 volts, the VS will come on and remain on until the battery(s) voltage comes down to under 12.6 volts.

**THE VOLTSEEKER AND ALL WELLS MARINE PRODUCTS ARE NOT GADGETS OR GIMMICKS. THESE ARE PROFESSIONAL GRADE SYSTEMS DESIGNED TO SIMPLIFY BATTERY MANAGING.**

### Voltage Guide: 12V Battery

12.7V ----- 100%

12.4 to 12.6-- 75 to 90%

12.2 to 12.4-- 50 to 75%

12.0 to 12.2-- 25 to 50%

11.8 to 12.0-- 0 to 25%

Below 11.8-- DEAD.

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## FOR BMII VOLTSEEKER & POWER PLANT VOLTSEEKER MODELS

1> **Parallel & Ground** Connect wire (14 gauge or greater) from the GROUND terminal on the unit to the NEG. side of a battery or common GROUND as illustrated. Install the PARALLEL Switch at the helm and wire it to the two terminals as illustrated. 18 Gauge two conductor wire works well. \*

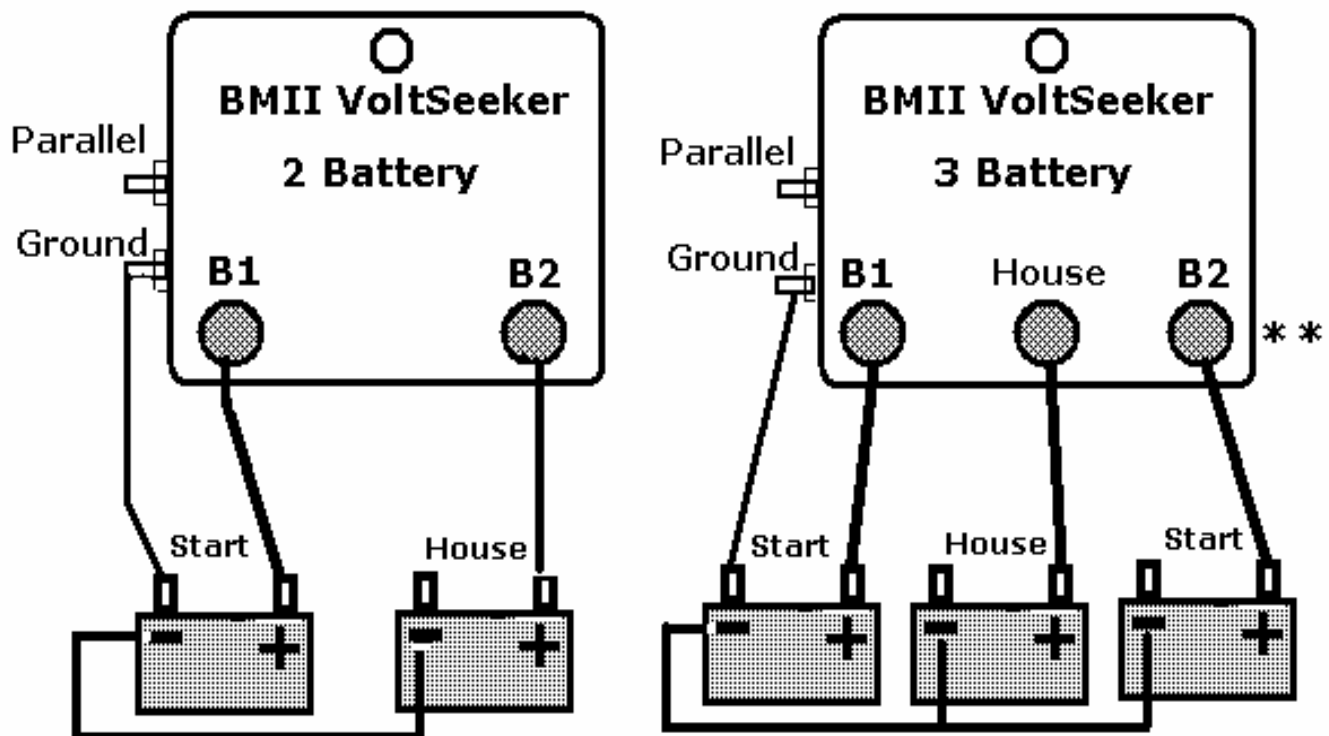
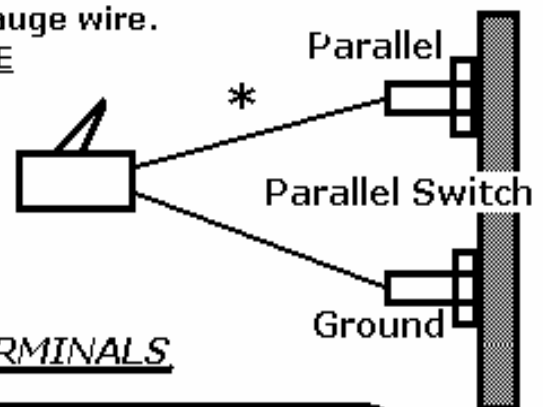
**TO USE PARALLEL SWITCH:** THE SWITCH IS "MOMENTARY" : IF AN ENGINE FAILS TO START BECAUSE OF A DEAD BATTERY- ENGAGE AND HOLD THE SWITCH FOR 15-20SECONDS, START THE ENGINE, THEN RELEASE THE SWITCH. For TWIN ENGINE boats. Start the other engine first, then follow the above instructions.

2> **Connect Battery Cables:** Connect ALL NEG (⊖) terminals of the batteries together as shown. ALL GROUNDS MUST BE COMMON. Connect POS.(+) Cable from the batteries to the unit as shown. The supplied ring terminals will accept 1 or 2 gauge wire.

USE HEAVY GAUGE WIRE. CHECK AMPERAGE REQUIREMENTS.

**INDICATOR LIGHT:** Will be "ON" whenever a charge source is applied and all batteries are charging. The light will be "OFF" when the charge source is removed and the battery(s) Voltage drops below 12.6V. (90%)

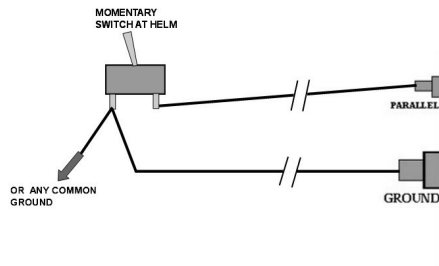
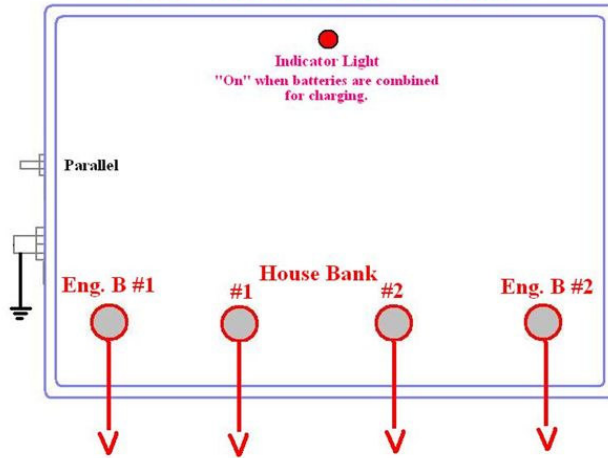
NEVER USE SPRING CLIPS ON BMII VS TERMINALS



All Batteries Must have Common Grounds

\*\*The B2 terminal may be used as an additional House Battery as well as a second Start Battery.

### BMII VOLTSEEKER 4 BATTERY



PARALLEL SWITCH WIRE DIAGRAM