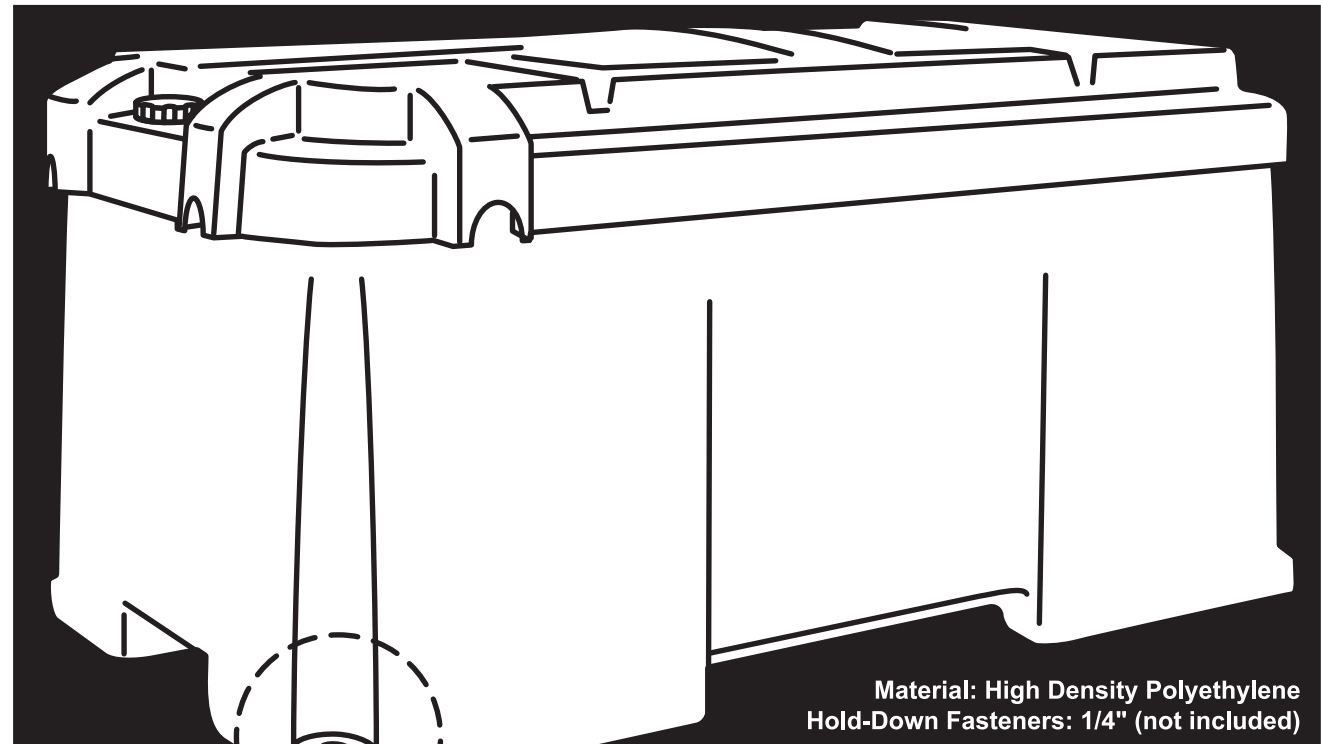


BLUE SEA SYSTEMS

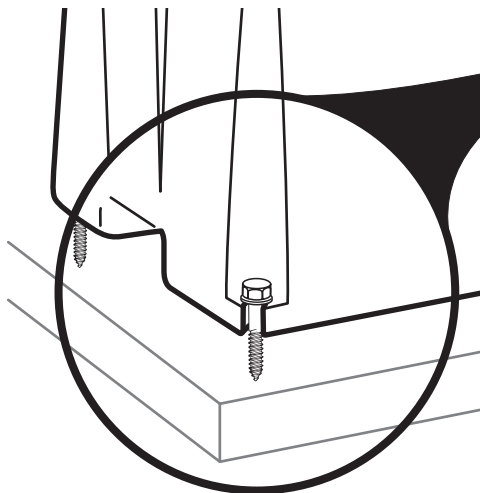
The Better Battery Box

The most advanced design available for Golf Cart, 4D, and 8D Batteries

Top fastening hold-down system reduces installation time from hours to minutes



Material: High Density Polyethylene
Hold-Down Fasteners: 1/4" (not included)



- **Direct Restraint System**
The easiest installation of any box
- **Straight Cable Entry Path**
No awkward bending of heavy cables
- **Electrolyte Reservoir**
The battery is held away from spilled electrolyte
- **Captive Hold-Down Fasteners**
No more lost nuts in the bilge

4021
for Dual Golf Cart Battery

	Outside	Inside
Width	14.25"	10.75"
Length	18.25"	14.75"
Height	13.50"	11.50"



4022
for Single 4D

	Outside	Inside
Width	12.50"	9.00"
Length	24.50"	21.00"
Height	13.00"	10.50"



4023
for Single 8D

	Outside	Inside
Width	15.00"	11.50"
Length	24.50"	21.00"
Height	13.00"	10.50"



Blue Sea Systems Battery Box Installation Guidelines

The Blue Sea Systems' battery box has been designed specifically to make installation as easy as possible. The mounting flanges on each corner of the box accept 1/4" fasteners. These may be stainless steel bolts where through bolting is possible or 1/4" stainless steel lag screws where through bolting is not possible.

The entire E-10.6. section of the American Boat and Yacht Council (ABYC) *Standards and Recommended Practices for Small Craft* is reproduced here to guide the installer in the proper installation of the battery box. Most of the requirements are met by the design of the battery box itself, but others must be complied with in the manner in which the box is installed.

ABYC Standard E-10.6. Storage Batteries - Installation

- a. Batteries shall be secured against shifting.
- b. Each installed battery shall not move more than one (1) inch in any direction when a pulling force of ninety (90) pounds or twice the battery weight, whichever is less, is applied through the center of gravity of the battery as follows:
 - (1) Vertically for a duration of one (1) minute
 - (2) Horizontally and parallel to the boat's center line for a duration of one (1) minute fore and one (1) minute aft.
 - (3) Horizontally and perpendicular to the boat's center line for a duration of one (1) minute to starboard and one (1) minute to port.
- c. To prevent accidental contact of the ungrounded battery terminal to ground, each battery shall be protected so that metallic objects cannot come into contact with the ungrounded battery terminal. This may be accomplished by means such as:
 - (1) Covering the ungrounded battery terminal with a boot or nonconductive shield,
 - (2) Installing the battery in a covered battery box, or
 - (3) Installing the battery in a compartment specially designed only for the battery(ies).
- d. Each metallic fuel line and fuel system component within twelve (12) inches and above the horizontal plane of the battery top surface as installed shall be shielded with dielectric material to protect against accidental short-circuiting.

NOTES:
 1. Terminal insulation or battery covers do not comply with this requirement since during installation or removal of a battery, these protective devices are usually removed in order to connect the cables.
 2. Any nonconductive material may be used for shielding as long as it is durable enough to withstand accidental contact by a tool or the battery terminals during servicing, installation or removal.
- e. Each battery shall not be installed directly above or below a fuel tank, fuel filter, or fitting in a fuel line.

NOTE: This does not prohibit a battery from being installed directly above or below an uninterrupted fuel line; however, if this fuel line is within the twelve (12) inch envelope of the top surface of the battery it shall be shielded dielectrically as required in ABYC E-10.6.d.
- f. A vent system or other means shall be provided to permit the discharge from the boat of hydrogen gas released by the battery. Battery boxes whose cover forms a pocket over the battery shall be vented.

NOTE: These provisions also apply to installations of sealed batteries.
- g. If the mounting surface or components of the boat in the immediate vicinity of the battery location are of a material attacked by electrolyte, a mounting means shall be provided that is made of a material that is not damaged by electrolyte.
- h. Fasteners for the attachment of battery boxes or trays shall be isolated from areas intended to collect spilled electrolyte.

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