

# BATTERY MANAGEMENT

## Battery Distribution Cluster Single Outboard Motor

The Single Engine Battery Distribution Cluster includes dedicated battery switches for each bank and a voltage sensitive relay (VSR). The VSR allows for two or more batteries to be charged at the same time. When the engine is started and the start battery reaches 13.7V, the relay closes combining batteries allowing them to be charged simultaneously. A red LED indicator light on the VSR will turn on when in the closed charging mode. When the engine is stopped and the voltage drops to 12.8V, the relay will open separating the batteries. This eliminates the possibility of draining the wrong battery and also protects sensitive electrical equipment from harmful engine start-up spikes.

Measures 51 ½" x 5 ½" x 3 ¼".

Battery Distribution Cluster, Single Outboard Motor	33200-ZY3-010AH
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## Battery Distribution Cluster Dual Outboard Motor

Dual Engine Battery Distribution Cluster has the same features as the Single Cluster but designed for twin engine installations. The assembly includes Port Start, Starboard Start, Emergency Parallel and House battery switches, and two voltage sensitive relays.

Battery Distribution Cluster, Dual Outboard Motor	33300-ZY3-010AH
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## Battery Distribution Cluster Triple Outboard Motor

Triple Engine Battery Distribution Cluster has the same features as the Dual Cluster but is designed for triple engine installations. The assembly includes Port Start, Center Start, Starboard Start, Emergency Parallel and House battery switches, and three voltage sensitive relays.

Battery Distribution Cluster, Triple Outboard Motor	33400-ZY3-000AH
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## Battery Disconnect Switch

Used in battery distribution clusters. Tested to UL 1107 and rated at 275A continuous, 455A intermittent, and 1250A cranking. Each switch has four removable sides suitable for up to 1/0 wire size for easy cable attachment. Requires 3/8-inch (10mm) terminal connector.

Battery Disconnect Switch	33100-ZY3-000AH
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## Battery Distribution Studs

Kit includes 2 each — 3/8" (10mm) studs mounted in a plastic housing with removable access doors for unlimited battery cable routing options. Used to connect additional battery cables to extend the length of the standard engine battery cable.

Studs are tin-plated copper with tin-plated brass nuts with stainless steel lockwashers. Plastic housing is high temperature and impact rated polycarbonate. Kit includes stainless steel mounting hardware.

Housing measures 2 ¾" x 2 ¾" x 2"

Battery Distribution Studs	33000-ZY3-000AH
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# BATTERY MANAGEMENT

## Battery Tender—Outdoor

This compact 800 mA battery charger has all the charge characteristics of the indoor battery tender but designed for outdoor usage. Includes quick connect cable pictured.

Battery Tender— Outdoor	32670-HPE-800
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## Battery Tender—Indoor

Maintains fully charged battery without overcharging.

*Includes:* 2 alligator clips and quick disconnect plug. 6 foot power cord with 65 inch charging cord.

Battery Tender— Indoor (not for sale in California or Oregon; see P/N 31670-BMS-004)	31670-HPE-000
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## Optimate 3 Battery Charger

The OptiMate 3 battery charger will automatically recover, monitor, and maintain all types of batteries from 2.5 to 32 amp-hours with its advanced diagnostic program, so your Honda generator is always ready to start when you need it. The OptiMate 3 battery charger has a unique ability to desulfate and recover most batteries that have been neglected or deeply discharged.

Optimate 3 charger	31670-BMS-004
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## 25 ft. Extension Cord

Extends the length of the charger's reach from 12 feet to 37 feet. Works with both indoor and outdoor battery tenders. Package includes 4 cords.

25 ft. Extension Cord	51670-HPE-004
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## Multiple Battery Connector Lead

Allows one battery tender to service several batteries.

Multiple Battery Connector	41670-HPE-000
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## Battery Charger/Maintainer

Battery PAL Magnum charger is UL listed. It is perfect for battery storage or for boat and personal watercraft battery charging. Charges at a 3 amp rate and switches automatically to 25-60 mA when battery voltage reaches approximately 13.5 volts. The battery charger uses red and green LED lights to indicate charge or maintenance functions. Built-in overload protection. Completely waterproof body. Mounts to the wall near an AC outlet. AC cord is 19 inches long. DC output cords with alligator clips are 4 feet long.

Battery Charger/ Maintainer	GUEST-2603
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