

# STARTNOW

## Automatic Starter Switch and Battery Combiner

**Never get caught stranded by a discharged battery**

***StartNow is the Power to Start, Everywhere, Everytime!***

93-STARTNOW-A                      StartNow Automatic Starter Switch & Battery Combiner  
93-STARTNWRMT-A                StartNow Remote Indicator (optional)

There is no worse end to an outdoor excursion than discovering a discharged battery when you are ready to call it a day. The StartNow microprocessor allows the main battery to drain without draining the reserve battery. When the StartNow detects the start of the engine engaging, it immediately parallels both batteries, guaranteeing an engine start. Recharging is automatic from an alternator or battery charger. The microprocessor ensures the battery will never overcharge and always be ready.

### Features:

- Required Reserve Battery & Cables not included
- Microprocessor controlled.
- Will not allow small loads (such as entertainment systems & trolling motors) to drain the Reserve Battery
- Built in Battery Combiner for automatic recharging
- 12 volt operation
- Draws negligible current in standby mode. Will not deplete your batteries
- Works with Flooded Lead Acid, AGM, and Gel Batteries
- Heavy Duty contacts rated at 280 Amps
- Works with all Gas engines up to 8 liters and diesel engines up to 5 liters.
- Optional Visual Remote Indicator (VRI) displays when StartNow is active

### Items you will need to complete the installation:

1. Additional 12 volt battery for the reserve battery.
2. The cables to connect the StartNow and reserve battery to your system.

Engine Size	Recommended Battery Size (minimum)	Wire Gauge (minimum)
Outboard [less than 250 HP]	Motorcycle, PWC, or ATV	10 AWG
Gas I/O or Inboard Engine [5.0 liters or less]	Motorcycle, PWC, or ATV	10 AWG
All others	Standard Car battery	6 AWG
Optional VRI	---	22 AWG

### Mounting:

Mount StartNow near the Main and Reserve Batteries using screws and washers provided.

**Connections:** [Refer to the connection diagram on the side of the StartNow]

1. Route wires from the batteries to ring lugs (not provided). Do not connect to batteries at this time.
2. Insert the insulating boot over the wire and ring lug. Place the ring lug with wire over the stud and secure with previously removed split locking washer and nut. Tighten. Cover the connection with the insulating boot. [red boots over MB+ and RB+ studs, black boot over GND stud.] Do not interchange the MB+ and RB+ connections.
3. Optional VRI: Connect red lead to StartNow's Remote Indicator stud. Connect black lead to a convenient ground location (usually under the dashboard) or either battery's negative terminal.
4. Connect to batteries

**Automatic Operation:**

1. StartNow will parallel both batteries for added starting energy when needed. (VRI: Solid On light)
2. StartNow will recharge the Reserve Battery once the Main Battery has received sufficient charge from the engine's alternator or an external battery charger. (VRI: Slow flashing light) [Built in battery combiner feature]
3. VRI only: If the Reserve Battery's voltage is low, StartNow will display a fast flashing light.

**Charging the both batteries with a battery charger (not supplied):**

To properly charge both batteries, place the battery charger across the Main Battery. StartNow will detect the charger's operation and recharge the Reserve Battery once the Main Battery has received sufficient charge.

**Warranty:**

The CHARLES Marine and Industrial Group warrants the StartNow will be free from defects in materials and workmanship which cause mechanical failure for one (1) year, as set forth in the Limited Warranty. You must provide notice of any alleged defect in material or workmanship within thirty (30) days of discovering the problem, and within the warranty period. Contact the Service Center to obtain warranty service.

**FCC Statement:**

FCC Class B: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1.) This device may not cause harmful interference, and 2.) this device must accept any interference received, including interference that may cause undesired operation.

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Made in the USA

**Wiring Diagram:**

