

PowerPac For Cordless Starter Power

Designed for years of dependable service, Sullivan's new power is molded from tough, glass reinforced nylon with steel mounting brackets and bronze internal connectors. Battery insertion is simple, requiring no soldering. The trickle charger is UL listed. The spade connectors can be accessed for other 12V accessories such as fuel pumps. The case has cooling slots and drain holes to protect the batteries. Slots in the brackets and case allow mounting to almost any starter.

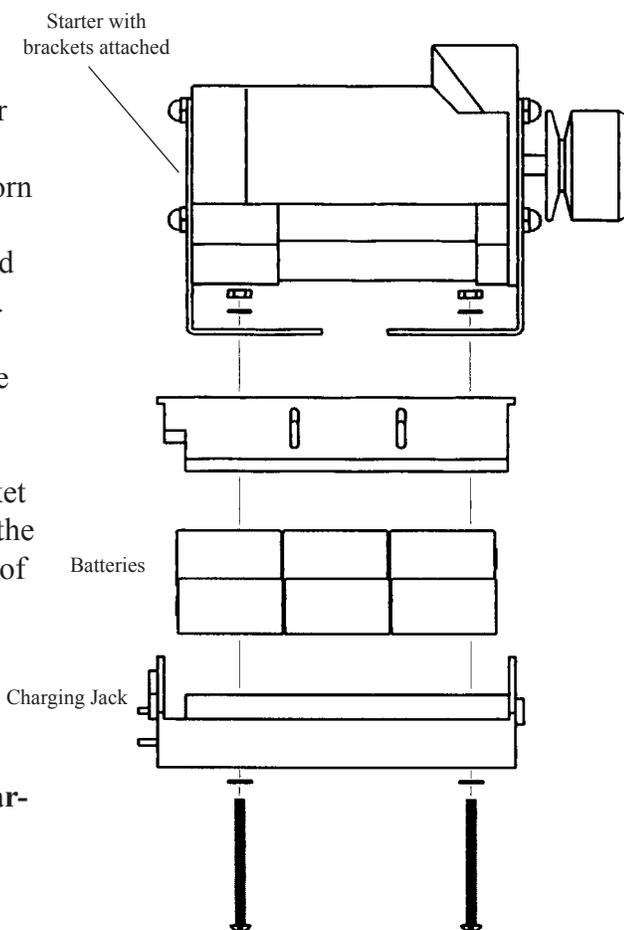
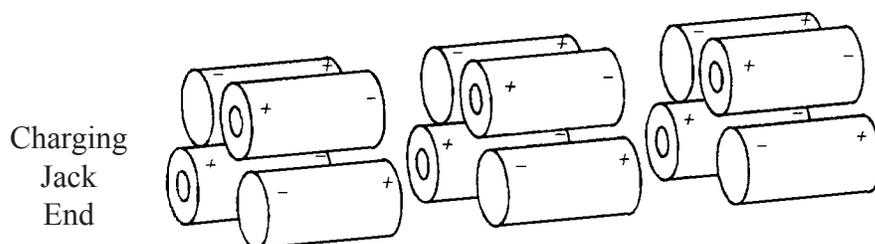
Installation Instructions

1. Attach the steel mounting brackets to your starter. For Sullivan starter models 600, 601 and 603 remove the acorn nuts on either end of the starter, slip the steel brackets over the exposed studs and replace the acorn nuts. The starter can be turned for right or left hand operation. For the Sullivan Hornet Starter (No. S598), cut the steel brackets along the word "Sullivan". Attach the brackets using #8 screws and nuts (not included). For the Sullivan S651 Double Handle Starter, strap a PowerPac to each side of the starter with nylon ties or hose clamps. The metal brackets are not used.

For other brands of starter, either drill holes for bolts to match the bracket holes or cut and bend the brackets and use nylon ties or clamps around the starter. The brackets have a fairly wide adjustment range with a variety of hole patterns and can easily be modified as needed. You can order additional brackets from Sullivan.

2. Insert 12 Sub-C NiCad Batteries into the case; the fit will be fairly tight. Be careful to orient the batteries according to the diagram on the case cover. **Do not reverse the batteries -- this could damage the charger, batteries or both.** We recommend using the batteries of the same capacity and age for the longest life and best performance.

The batteries should go into the case as shown:



3. Assemble the case and starter using the #8 bolts, nuts and lockwashers. The bronze connectors and charging jack should be at the back end (power cord end) of the starter. Position the starter case back and forth as desired.
4. Cut the power cord about 5 inches from the starter. Be sure the leads are long enough to reach the bronze connectors easily. Split the cord and strip each end about 1/4 inch. Crimp or solder the spade connectors to the stripped ends and slide onto the bronze connectors. For Sullivan starters, the ribbed side should go to positive for normal (CCW) starting. Reverse leads for opposite direction. Wrap a nylon tie or tape around the leads and bracket to keep the leads from getting snagged.
5. **Be sure to charge the batteries before operating the starter.** Most new batteries are shipped uncharged and may be permanently damaged if not charged before use. New batteries typically have a useful life of several years. The greater the battery capacity, the longer the pack will last between recharges. Sub-C NiCads batteries are available from your retailer in various capacities or directly from Sullivan in 1300 Mah capacity.

Charging

The trickle charger will fully charge the pack in 8 to 12 hours depending on battery capacity. The batteries can also be fast charged with a fast charger capable of charging a 12 cell pack. If left off the charger, NiCads batteries will self discharge at about 1% per day.

Operation

When starting engines always wear protection for your hands and eyes. Do not immerse the battery pack in water or let it overheat. Do not short the battery pack or put a metal object into the charging jack! Short circuited NiCad batteries (including the ones in your model) can deliver enough current to get very hot and may cause a fire hazard. When not charging, cover the center charging jack pin with the red plastic cover. In addition to powering your starter, the bronze spade connectors are accesible for powering your fuel pump or other 12V accessory.