

LATCHING SOLENOID SWITCHES

12 VDC & 24 VDC LITTLE BOY 100 AMP LATCHING SOLENOID SWITCHES

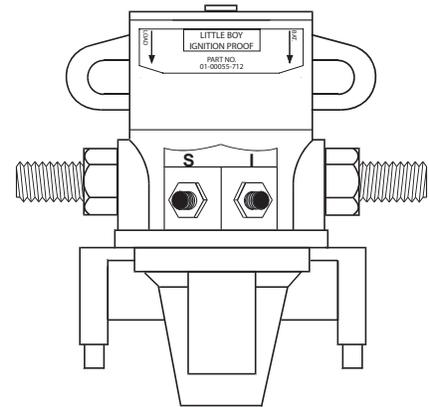
FEATURES & BENEFITS

- Provides Remote Control of the Battery
- Requires NO Continuous Battery Drain
- Reduces Length and Weight of Un-fused Battery Cables
- Eliminates the Need for Mechanical Battery Switches
- Can be Installed Near Batteries
- Ignition Protected (SAE J1171)
- Prevents Accidental Battery Discharge
- Three Year Factory Warranty

The Little Boy 100 Amp Latching Solenoid provides a simple, reliable, and cost effective means to connect or disconnect a vessel's battery system by remote control. Efficient placement of the Little Boy, in close proximity to the battery, reduces the potential fire hazard and voltage drop caused by long runs of heavy un-fused battery cable. The Little Boy eliminates the nuisance of repeated trips to the engine room, each time the vessel is placed in or out of service, to open or close an unsightly, bulky, mechanical, battery switch. Instead, a compact low current control switch with an integral green LED indicator and locking mechanism, placed conveniently at the helm or fly bridge, alerts the operator to the current battery status. The control switch locking mechanism prevents alternator damage caused by the accidental disconnection of the battery while the engine is in operation.

The Little Boy incorporates Intellitec patent No. 4,628,289 simple magnetic latching mechanism. This latching mechanism feature requires NO current draw to maintain the Little Boy Solenoid switch contacts in the open or closed position. This exclusive latching feature provides **continuous switch operation without discharging the battery.**

To close the Little Boy Latching Solenoid contacts, a momentary positive DC voltage is applied to the "I" Little Boy coil terminal, and a negative DC voltage is connected to the "S" coil terminal (see wiring diagram).



Little Boy 100 Amp Latching Solenoid Switch

When the power is removed, the contacts close and the control switch integral green LED indicator, located at the helm or fly bridge, is automatically illuminated.

The Little Boy switch contacts can safely carry up to 100 Amps of DC current continuously and up to 500 Amps for periods of up to 30 seconds.

To open the Little Boy Latching Solenoid contacts, a momentary negative DC voltage is applied to the "I" Little Boy coil terminal, and a positive DC voltage is connected to the "S" coil terminal. When the power is removed, the contacts open and the control switch LED is automatically turned off.

The Little Boy Latching Solenoid is ignition protected and tested to SAE J1171 in compliance with ABYC standards E-9.8.1 and E-9.4 NOTE 7.

Over current protection is required for the Little Boy's coil and integral LED, which is compliant with ABYC standards E-9.11.1 (7/40-inch rule), E-9.12.5.2.3 (5000 AIC fuse rating), and E-9.12.6.2 (ignition protection). Our 5 Amp fuse (P/N 010-001) is tested to UL 1500 and complies with these standards (see wiring diagram).

Specifications

Nominal Actuation Voltage	12 Volts	24 Volts
Part Number	570-012-B	139-008-B
Actuation Current	3.5 Amps	1.7 Amps
Minimum Activation Voltage	10.5Volts	21 Volts
Maximum Continuous Current	100 Amps	100 Amps
Max. Short Term Carry Current (30 Seconds)	500 Amps	500 Amps
Maximum Ambient Temperature	185 ° F	185 ° F
Minimum Ambient Temperature	-40 ° F	-40 ° F
Contact Life at Full Load	Min. of 10,000 Cycles	Min. of 10,000 Cycles
Maximum Actuation Time	0.2 Seconds	0.2 Seconds

3 YEAR WARRANTY

Made in the USA