SBC-1120 USER MANUAL

Description

The controller module is designed to use with solenoid switches which use less than 1.5A coil current. It allows users to choose the suitable solenoid switch for the right application.

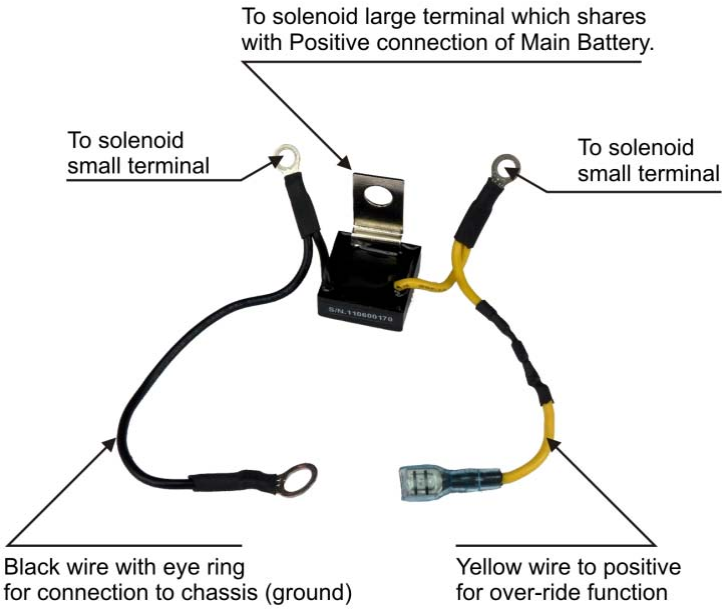
The module has a microprocessor control sealed with epoxy resin. It constantly scans the voltages of main battery and compare with it set values to make the solenoid switch for either connection or disconnection with appropriate time delays.

This merging of MCU electronic control and electro-mechanical solenoid switch for large current conductivity with little voltage drop loss is a cost effective and flexible way for DC power management.

Typical applications are: automatic separation of main (starter) and auxiliary batteries during charging and discharging according to the state of the charge level of the main battery. Dual battery or multi-banks battery system such as 4W vehicles, RD Trailer, solar charged batteries, Ham radio backup and etc.

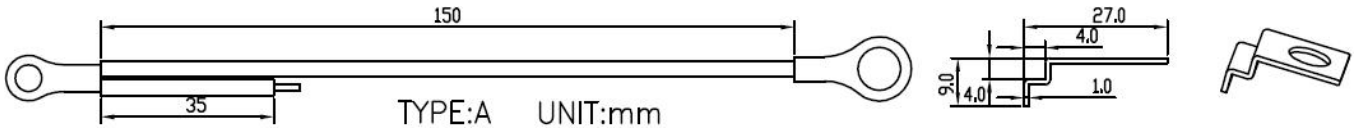
There is a manual over-ride function to force connect two batteries for emergency starting and other application.

The Controller



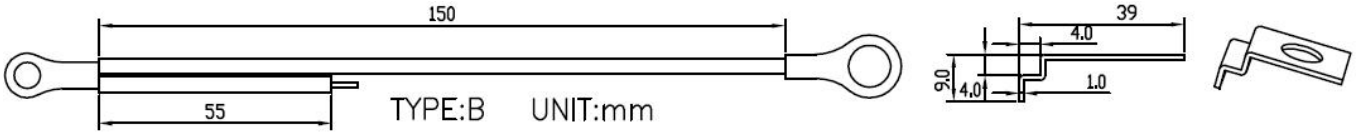
Mounting Bracket and Connected wire

Type A: 1.Mounting Bracket (to solenoid large terminal which shares with Positive connection of Main Battery) 27mm Length; 2.Black Wire Length 35+150mm



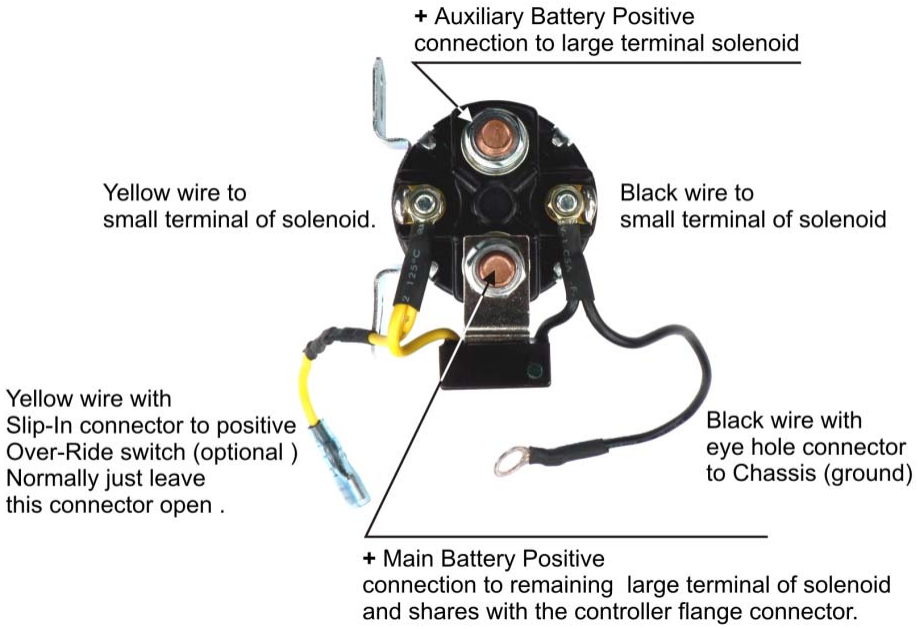
Type A Diagram

Type B: 1.Mounting Bracket (to solenoid large terminal which shares with Positive connection of Main Battery) 39mm Length; 2.Black Wire Length 55+150mm



Type B Diagram

Installation Diagram



Specification

Models	SBC-1120
Battery Voltage(Main and Auxiliary)	12VDC
Isolator Switch ON(Connect) Voltage	13.1VDC
Isolator Switch Off(Disconnect) Voltage	12.6VDC
Maximum Operating Voltage	15.5VDC
Over Voltage Protection Voltage	16VDC
Operating Current Consumption (solenoid on)	1.5A MAX.
Idle Current Consumption	6m A
Delay Time for Switch OFF	15 seconds
Indication	Green LED
Mounting Bracket and Connected wire	Optional type A or B
Dimension	10x16x16mm
Weight	32g

SPECIFICATIIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE