

40 AMP SINGLE SLIDE OUT CONTROLLER

(SSC102) *AUTOMATIC*

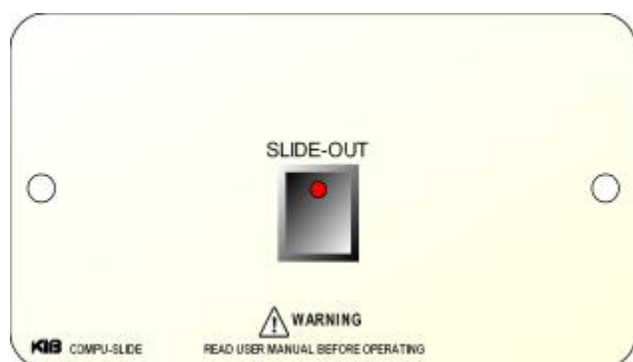
(SSC104) *PRESS AND HOLD*

FEATURES

- 40 AMP Operation
- Auto Calibration
- Power In—Motor Out
- Works With Standard or Flush Floor
- One Touch, One Switch Control
- Ignition Lockout Option
- Compensates For Low Battery Voltage
- Easy Installation
- Low Cost

ERROR DETECTION

- Under Voltage Monitoring
- Automatic Timeout
- Over Current



4.5 in. x 2.75 in. x 1.25 in.

IMPORTANT SAFTY FEATURE: THE BUTTON MUST BE PRESSED FOR ONE HALF SECOND BEFORE WALL WILL MOVE.

The KIB Single Slide Out Controller (SSC) was designed for easy operation while keeping low cost and quick installation in mind. By using micro controller technology the SSC can be capable of numerous features and functions while using a very low part count .

The unit is equipped with automatic calibration making it compatible with any motor that draws from 5 to 40 amps. Calibration is quick and easy. Simply let the Slide Controller extend the wall for five seconds. If the wall requires a higher or lower current to properly seal the user can adjust the current without the need for any tools or even removing the control unit from the wall!

The SSC is equipped with an error detection system that automatically recognizes a problem and lets the user know, in the form of a flashing light. The user can diagnose the problem by referencing the Error Detection

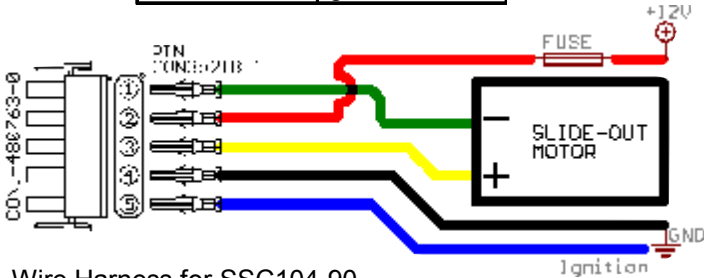
SPECIFICATIONS		At 20° C (68° F)
Contact Material	Silver Oxide Complex Alloy	
Contact Switching Voltage	16 Vdc	
Contact Switching Current	35 A. Max. (at 16 Vdc)	
Contact Carrying Current	35 A. Max. (1 Hour Max) 40 A. Max (2 Minutes Max) at 12 Vdc	
Operate Time (Excluding Bounce)	Approximately 5 ms (at Normal Voltage)	
Release Time (Excluding Bounce)	Approximately 2 ms (at Normal Voltage) without Diode	
Nominal Operate Power	0.64 W /0.8 W /1.15 W (at 12 Vdc)	
Insulation Resistance	100 M at 500 Vdc, initial	
Withstand Voltage, Breakdown Voltage	500Vac (for 1 Minute), Initial	
Shock Resistance	98 M/s ² (misoperating), 980 m/s ² (destructive failure)	
Vibration Resistance	10 to 300 HZ, 43 m/s ² (misoperating) 10 to 500 Hz, 43 m/s ² , 200 hours (destructive failure)	
Ambient Temperature	-40 to +85 C (-40 to +185 F)	
Life Expectancy	Mechanical	1 x 10 ⁶ operations
	Electrical	100 x 10 ³ (at 14 Vdc, Motor Load 30 A/7 A)

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Installation of the SSC is quick and easy. The proper installation steps must be followed to insure safe and effective operation of the SSC. First, it is imperative that the right wire gauge is used for the appropriate motor current. Failure to do so will result in loss of motor speed and possible malfunctions of the SSC from lack of voltage. The SSC wire harness comes with 10 AWG wire for maximum current operation. **THE INSTALLER ALSO MUST USE A SLO-BLOW FUSE FOR PROPER PROTECTION, FUSED TO MOTOR SPECIFICATIONS BUT NOT TO EXCEED 35 AMPS SLO-BLOW.**

The SSC102 is an automatic, one press of the button and the wall will side in or out. The SSC104 is a press and hold. The SSC104 requires the user to press and hold the button until the wall reaches its end of travel.

SSC102 WIRING GUIDE	
WIRE	CONNECTS TO
GREEN	Motor Negative
RED	12 Volt
YELLOW	Motor Positive
BLACK	GND
BLUE	Ignition Lockout



INSTALLATION

Wiring of the SSC is simple and straight forward. With butt-splice wire connectors, connect the RED wire to the 12 Volt power source. The BLACK wire is connected to the GROUND. The YELLOW wire is connected to MOTOR POSITIVE. The GREEN wire is connected to MOTOR NEGATIVE. The BLUE wire is an optional ignition lock out. When connected to the ignition (12 volts) the unit will only retract not extend.

USER SETTABLE FUNCTIONS	
Decrease current by 1.5 AMPS	One Blink Off
Increase current by 1.5 AMPS	Two Blinks Off
Place unit into calibration mode	Three Blinks Off
ACKNOWLEDGEMENT FLASH PATTERNS	
Wall currently moving	One flash per second
Wall has finished moving	Four flashes per second
Needs Calibration	Eight flashes per second
ERROR DETECTION FLASH PATTERNS	
Calibration (busy)	One Flash
Low Battery (below 9.5 V)	Two Flashes
Ignition ON	Four Flashes

CALIBRATION

Calibrating the unit is just as simple as the wiring. First, make sure the unit is at a midpoint, so the SSC can capture a nominal (free running) current sample for four seconds. Note: this current sample for calibration must be taken as the room is extending (moving out), not ascending or descending the ramp of a flush floor unit. First the light on the wall panel will be flashing rapidly, indicating the unit is ready for calibration*. Now, simply press and hold the button on the wall unit for the SSC104. For the SSC102 a simple press of the button is all that is required. The unit will start extending and the light will turn off for four seconds. After the four seconds the light will flash slowly, this indicates that calibration was successful. If desired, let the wall continue to extend until it reaches the end point. If at any-time during the calibration the button is released the unit will stop, and the next button press will retract the wall unit until the button is released again (applies to both the SSC102 and SSC104), at which time the unit will be automatically placed back into the calibration mode.

* If the light is not flashing rapidly the unit needs to be placed into calibration mode. To place the unit into calibration mode press the button three times and on the third press hold the button (i.e. press, press, press and hold). The light will begin to turn on then turn off as the switch is held. When the light turns off for a third time release the button.

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ADJUSTMENT

In the event the SSC does not calibrate to the desired current the installer can adjust the current manually. Manual adjustments change the seal current + or - 3% each time. To decrease the current press the button three times and on the third press hold the button . The light will turn on and off. When the light goes out release the button and press it the number of times needed to get the desired current (press, press, hold, 1 blink off, press the number of times needed). To increase the current release the button after the light goes out for a second time and repeat the steps above (press, press, hold, 2 blinks off, press the number of times needed).

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Troubleshooting Guide

The SSC104 is made so that any errors in operation can easily be diagnosed and fixed by the installer. Most problems arise from improperly connected wires. Make sure that the red wire is connected to 12VDC and the black wire is connected to ground. The yellow wire is connected to the positive of the motor and the green wire is connected to the negative of the motor. In some cases the wire harness wires may not match the wires in the wall. It is possible for the wire run in the coach to have been spliced. It is a good idea to verify where each wire goes before connecting the SSC.

*******LEGAL NOTICE*******
Make sure the path of travel is clear of people and objects. Only move Slide Out when coach is parked and in a level position. Keep all body parts clear of moving parts and way from the area where the Slide Out meets the coach wall. Death or serious injury may occur. Do not move Slide Out when people or animals are in the Slide Out.