

SWITCH Works SW-E12 Alpha 12 Digital Smart Switcher



SWITCH Works SW-E12 Alpha 12 Digital Smart Switcher Instruction Manual

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SWITCH Works SW-E12 Alpha 12 Digital Smart Switcher



Product Information

Specifications:

- Model: SW-E12
- Output: 12 circuits
- Manufacturer: SWITCH Works Electronics

Product Description:

The SW-E12 is an electronic accessories smart switcher designed to control various devices in your vehicle. It includes a brain module, LCD touch button controller, mounting bracket, and necessary harnesses for installation.

Product Usage Instructions

Parts Contents:

The package includes the SWITCH Works 12 Circuit Brain Module, LCD Touch Button Controller, Controller Mounting Bracket, various output harnesses, mounting hardware, and accessories.

Installation:

1. Attach the RAM Mount ball adapter to the Controller Mounting Bracket using the provided screws.
2. Secure the Controller Mounting Bracket to the LCD Touch Button Controller with the flat head screws.
3. Cut and install the power and ground wires to reach the battery, ensuring to install the fuse holder on the power

wire.

4. Connect the power and ground wires to the brain module.
5. Plug in the provided harness to the SWITCH Works Brain.
6. Connect the LCD Touch Button Controller to the harness.
7. Tap ACC wire to a switched 12-volt power source and Illumination wire to headlight power for dimming function.
8. Splice your devices to the high and low current harnesses as per your requirements.

Important Notes:

- Controller **MUST** be connected before applying power to the switcher.
- Follow the device list mapping for easier programming of the module.

FAQ

Q: What is the warranty period for the SW-E12?

A: The SW-E12 is covered by a limited 1-year warranty against defects in material or workmanship.

Q: Can I update the software on the SW-E12?

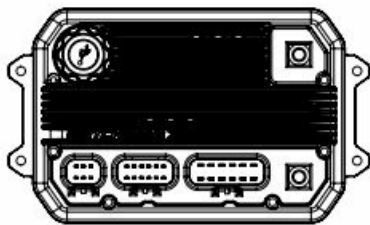
A: The SW-E12 features a USB port for software updates only.

WARRANTY INFORMATION:

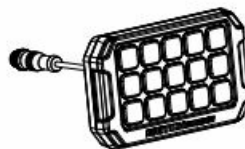
All SWITCH Works Electronics are covered by a limited 1 year warranty against defects in material or workmanship. Contact SSV Works for further warranty information

Please read and understand these instructions completely before installation to avoid possible injury, or damage to the accessory or vehicle.

PARTS CONTENTS



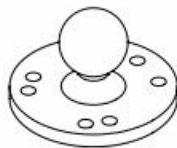
**SWITCH Works 12 Circuit
Brain Module**



**LCD Touch Button
Controller**



**Controller Mounting
Bracket**



**RAM Mount 1"
Ball Base**



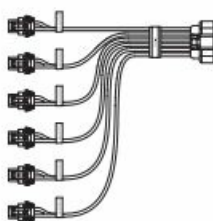
**RAM Mount
Ball Adapter**



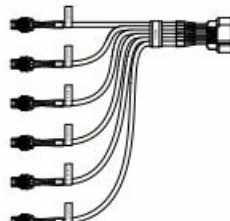
**RAM Mount Double
Socket Arm**



**Brain Module Power
Harness**



**High Current
Output Harness**



**Low Current
Output Harness**



**High Current Pigtail
& Ring Terminal (x6)**



**Low Current
Pigtail (x6)**



**1 3/8" Pan Head
Screw & Locknut**



**Flat Head, Thread
Cut Screw (x4)**



**M8 Flange Bolt &
SS Split Washer (x2)**



**Fuse holder with 100A
mini ANL fuse**



**#4 AWG Power/Ground Cable Set
3 ft or 10 ft**

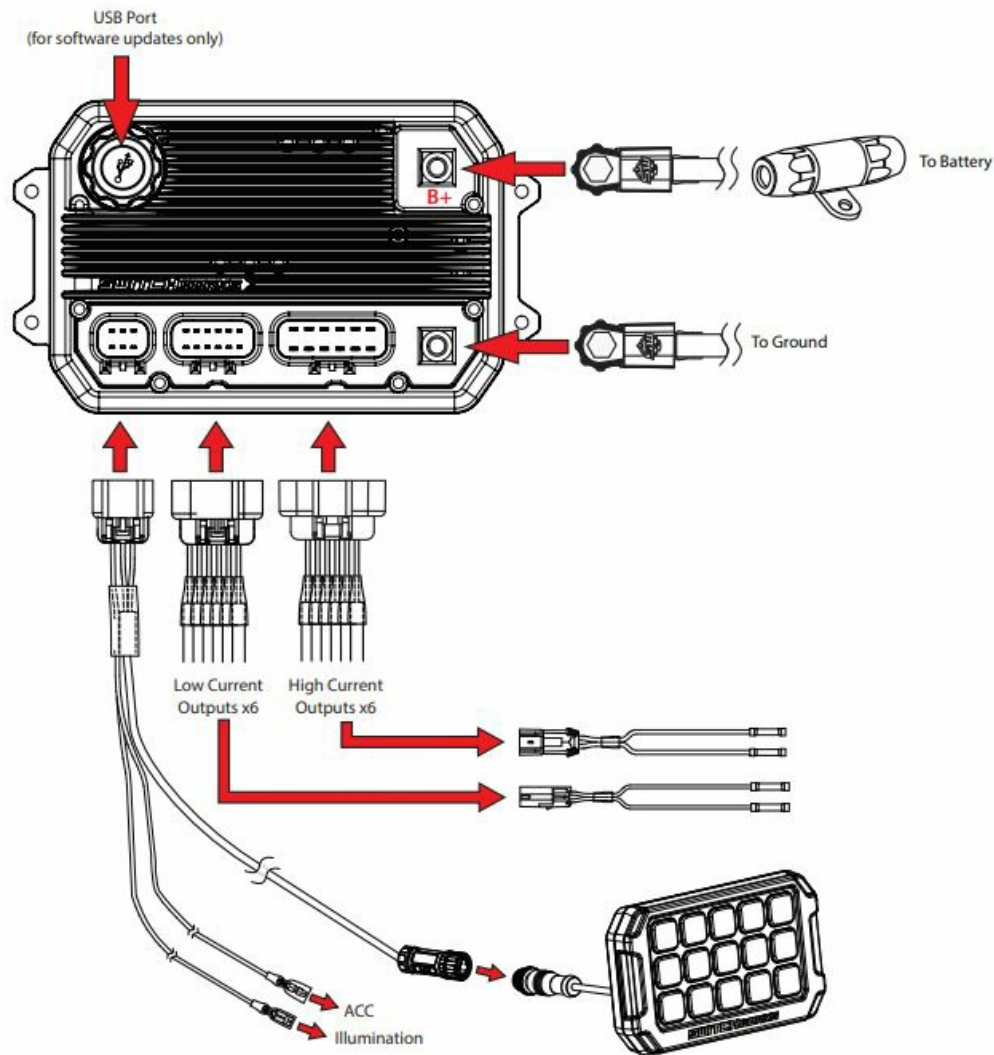


Faceplate & Gasket Pack



Dummy Plug

CONNECTION DIAGRAM



DEVICE LIST

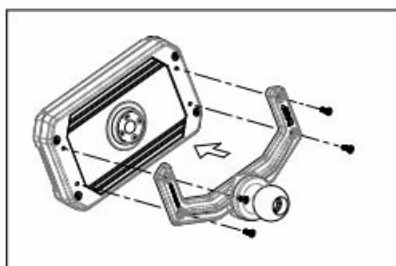
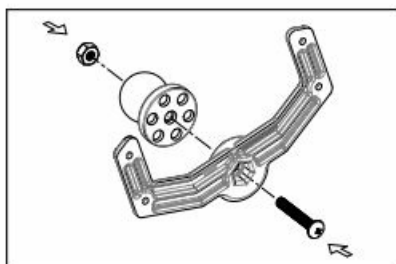
To make programming the SWITCH Works module easier, we recommend mapping your accessories with the cheat sheet below. Determine which accessory you're connecting to each individual output; which button you want to control the output (button used is not determined by output location); and, which function you want to achieve for the output (ON/OFF, Strobe, etc.).

HIGH CURRENT	DEVICE	BUTTON #	OUTPUT FUNCTION OUTPUT
H1			
H2			
H3			
H4			
H5			
H6			
LOW CURRENT	DEVICE	BUTTON	OUTPUT FUNCTION OUTPUTS
L1			
L2			
L3			
L4			
L5			
L6			

INSTALLATION

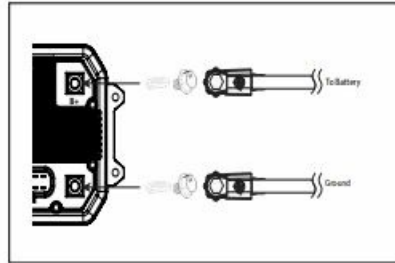
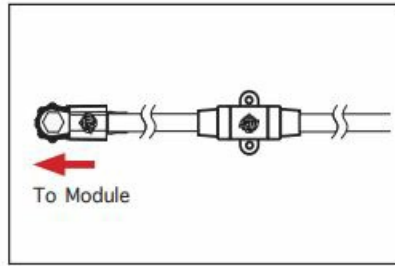
Skip steps 1 and 2 if using vehicle-specific kit

1. Attach the RAM Mount ball adapter to the Controller Mounting Bracket and secure with the 1 3/8" pan head screw and locknut.
2. Attach the Controller Mounting Bracket to the LCD Touch Button Controller using the 4 flat head, thread cut screws provided.

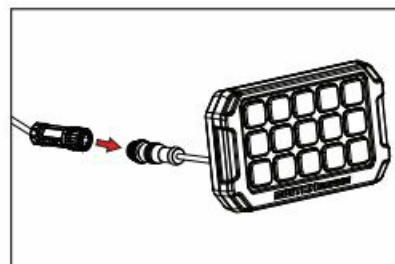
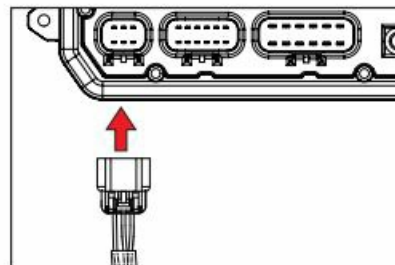


3. Cut the 4AWG power and ground wires to the required length to reach the battery. Install the fuse holder provided in the kit to the 4 AWG power wire. Wait to connect the power and ground wires to the battery until all other installations steps are completed

4. Connect the 4AWG power and ground wires to the brain module using the M8 flange bolt and split washer.



5. Plug the B-H2513 harness to the SWITCH Works Brain.
6. Plug the LCD Touch Button Controller to the B-H2513 harness.



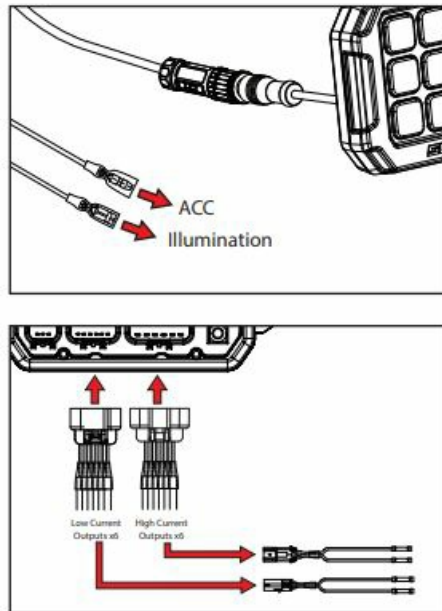
7. Tap ACC wire to a switched 12 volt power source. Tap Illumination wire to headlight power for dimming function.

NOTE: LCD Touch Button Controller MUST be connected before applying ACC power to the switcher

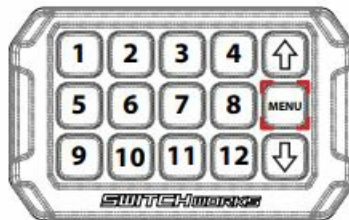
8. Splice your devices to the high current and low current harnesses accordingly. Then plug in the harnesses to the module. High Current: 25 amps each x6 Low Current: 5 amps each x6

NOTE: If outputs L1-L6 are not going to be used plug in the dummy connector included in the accessory box.

*When all other Installation steps are completed, connect power and ground wires to the Battery

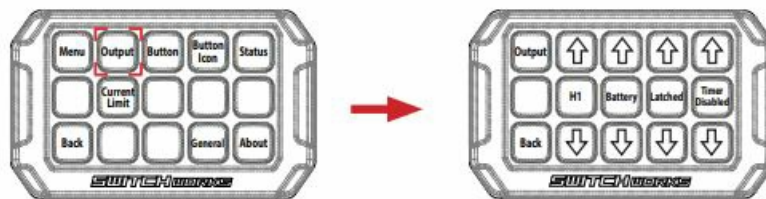


PROGRAMMING



SWITCH Works LCD Touch Controller Button Layout The SWITCH Works LCD Touch Controller features 60 user programmable buttons and 64 icons to choose from to control electrical devices. Unit is defaulted to 1 page of 12 buttons from the factory. Additional button pages can be turned on in GENERAL menu. See section on GENERAL SETTINGS. Press MENU button to enter settings

OUTPUT SETTINGS



Program the function of each added accessory/output by selecting OUTPUT. Select number (H1 to H6 and L1 to L6) and set the power source and function for each output

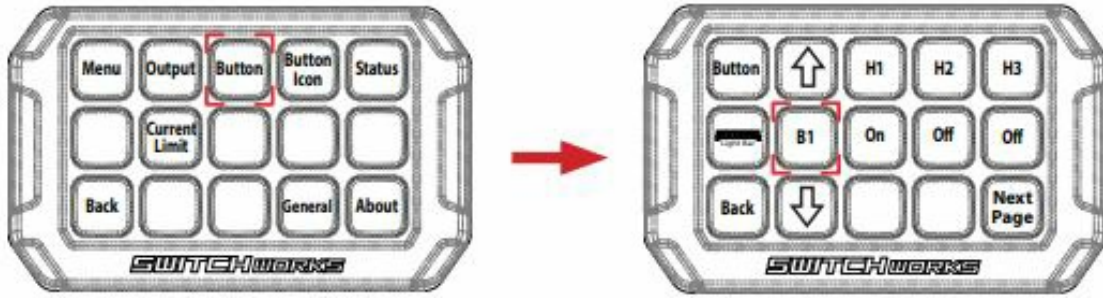
Output	Description	Devices
H1	High Current Output 1	Light Bars, Sound System, Horn, etc. (25 amps max each output)
H2	High Current Output 2	
H3	High Current Output 3	
H4	High Current Output 4	
H5	High Current Output 5	
H6	High Current Output 6	
L1	Low Current Output 1	Dome Light, Turn Signals, Rock Lights, Low Current LEDs, etc. (5 amps max each output)
L2	Low Current Output 2	
L3	Low Current Output 3	
L4	Low Current Output 4	
L5	Low Current Output 5	
L6	Low Current Output 6	

OUTPUT SETTINGS

Select the OUTPUT number (H1 to H6 and L1 to L6) and set the power source and function for each output

Output	Power Source	Description
High Current H1 to H6 (25 amps each)	Battery	Output stays on with ignition (ACC) off
	Ignition	Output turns on with ignition (ACC) on
	Ign. Memory	Saves last device status (defaults to OFF)
Low Current L1 to L6 (5 amps each)		
	Function	
	Latched	Press ON, Press OFF
	Latch Flash	Press to FLASH, Press OFF
	Latch Strobe	Press to STROBE, Press OFF
	Hold Strobe	Press ON, Press OFF, Press & Hold to Strobe
	Dimmer	Press ON, Press OFF, Press & Hold for Dimmer Function
	Moment	Press & Hold for ON, Release for OFF
	Moment Flash	Momentary FLASH
	Moment Strobe	Momentary STROBE
	Timer Disabled	Timed Output (On for 30s, 1m to 5m) (not available in Momentary functions)

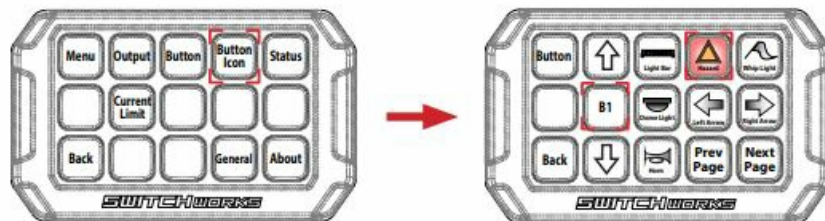
BUTTON SETTINGS



Function												
Button Number	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6
B1	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
B2	Off	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

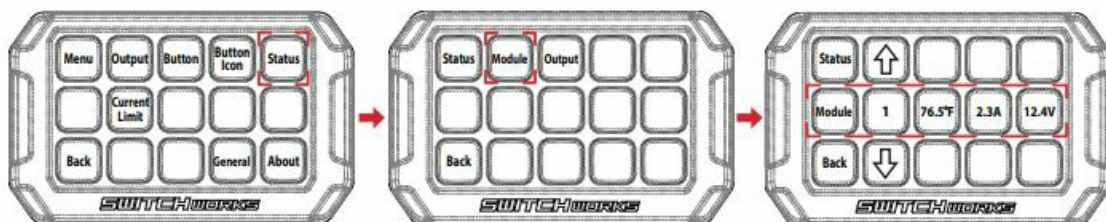
Select button number and set the output you want each button to turn ON or OFF. Note that a button can be set to control more than one output. An example is to turn all High Current outputs (H1 to H6) On or Off using one button

BUTTON ICONS



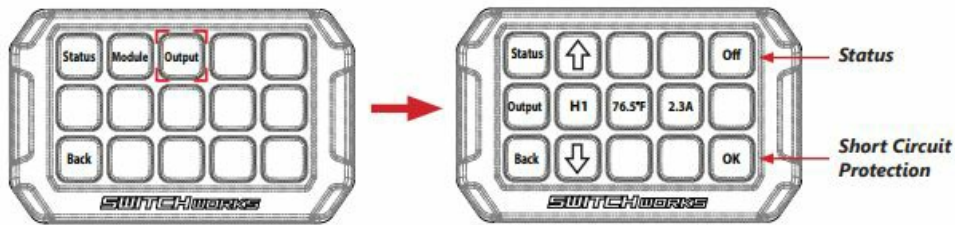
Select the icon for each button used. Icon turns colored when selected. Press the BACK button once all icons have been assigned to the buttons

STATUS – Module



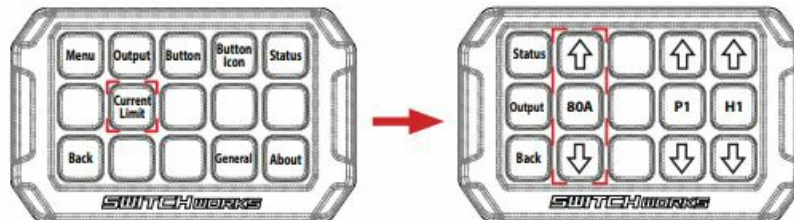
The SWITCH Works LCD Touchscreen controller is capable of controlling two brain modules. Select module 1 or 2 (If two brains are connected) to show TEMPERATURE, total CURRENT DRAW and VOLTAGE

STATUS – Output



The SWITCH Works LCD Touchscreen controller can show TEMPERATURE, CURRENT DRAW, STATUS (On/Off) and SHORT CIRCUIT Protection Status of each used output.

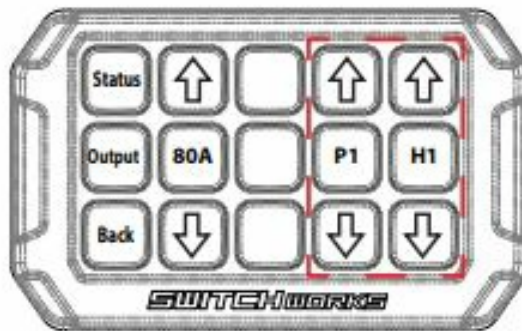
CURRENT LIMIT



Set the maximum current output of the SWITCH Works switcher module. The module is defaulted to 80 Amps. Adjust the module current output to match the total current draw of all devices connected.

NOTE: Adjust the current output based on the vehicle's electrical current capacity

PRIORITY SHUTDOWN



The SWITCH Works controller constantly monitors the current draw and temperature of the system. It offers a Priority Shutdown feature to prevent the system from over-current draw and over heating.

- P1 – Highest Priority – Last output to turn off
- P12 – Least Priority – First Output to turn off

Select which output (H1 to H6 and L1 to L6) has the Highest Priority and Least Priority.

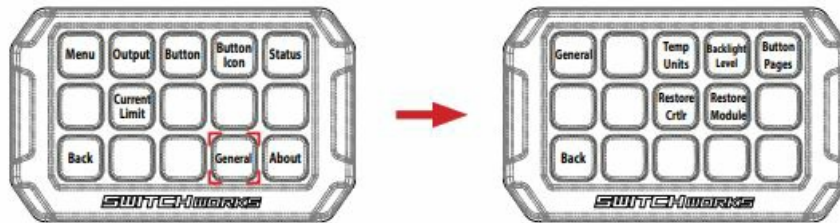


High Current Output 1
will be last to turn off



Low Current Output 1
will be first to turn off

GENERAL SETTINGS



<i>Output</i>	<i>Option</i>	<i>Description</i>
	°F	<i>Fahrenheit Celsius</i>
<i>Temp Units</i>	°C	
	<i>Day (10% to 100%)</i>	<i>Set daytime back light level</i>
	<i>Night (10% to 100%)</i>	<i>Set nighttime back light level (Illumination wire must be connected)</i>
<i>Button Pages</i>	<i>1 to 5</i>	<i>Number of button pages to display</i>
<i>Restore Ctrlr</i>	<i>Apply?</i>	<i>Restore LCD controller to factory default</i>
<i>Restore Module</i>	<i>Apply?</i>	<i>Restore Module to factory default</i>
<i>About</i>	<i>Btn Pad</i>	<i>Version number</i>
	<i>SSI</i>	<i>Version number</i>

BY SSUWORKS

SWITCH Works is a product by SSV Works. We are committed to your satisfaction and we know you will enjoy our products. If you have questions or need any assistance, please let us know.


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- SUPPORT@SSVWORKS.COM



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- www.SSVworks.com
- Phone: 818-991-1778
- Fax: 866-293-6751

Documents / Resources

	<p>SWITCH Works SW-E12 Alpha 12 Digital Smart Switcher [pdf] Instruction Manual SW-E12 Alpha 12 Digital Smart Switcher, SW-E12, Alpha 12 Digital Smart Switcher, 12 Digital Smart Switcher, Digital Smart Switcher, Smart Switcher, Switcher</p>
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References

- [SSV Works](#)
- [User Manual](#)

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