VOSWITCH UV100 Programmable Switch Panel Power System Instruction Manual

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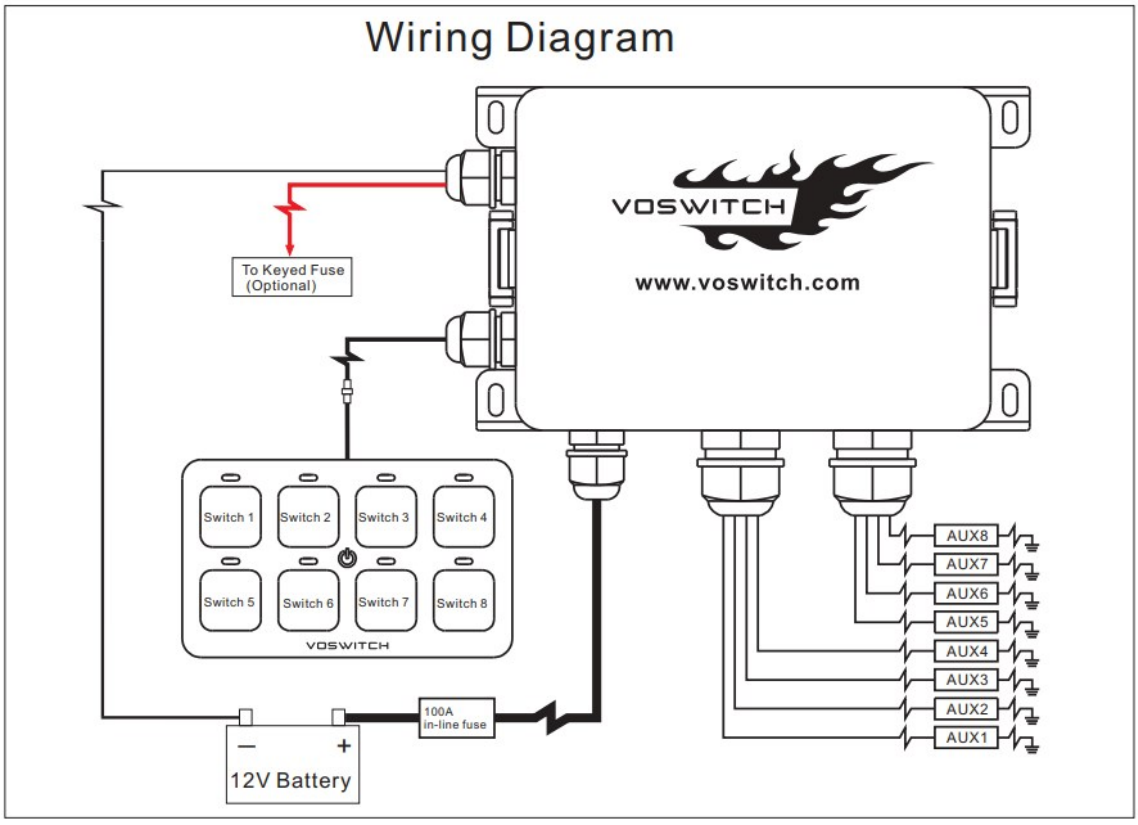
Read before installing!

1. Connect the black ground wire directly to the Negative terminal of the battery. DO NOT connect to frame ground studs or ground distribution studs.
2. Do not connect any other power feeds to the power module’s power stud.
3. Do not use the UV100 to control a winch. Use the winch manufacturer’s supplied device. Installation should be performed by a qualified technician, to avoid damage to the system or output accessories.

Contents

Voswitch UV100 Overview

The UV100 Programmable Switch Panel Power System is fully programmable and features RGB-W backlighting. The UV100 switch panel has 8 programmable switches and 1 combined programming/on-off switch with stored memory. Amber LEDs located above all 8\ switches, indicate when the switch is turned on and the selected programs.
The power module has 8 AUX outputs, switches 1 – 8 are all rated at 30A.
The power module also has 1 input as trigger, you have the options to hook up the small red wire to ignition or ACC or headlight, through the Add-A-Circuit fuse tap supplied.



Installation

Disconnect the negative battery lead from the vehicle's battery before proceeding with installation, and to avoid damage to the electrical system!
See the last page for vehicle specific installations.

Tools needed: #2 Philips screw driver , 8mm Wrench/socket , 10mm Wrench/socket, 27mm Wrench

Installing the UV100 Switch Panel

Identify which accessories you will be powering with your Switch Panel Power System. Remember that Switches 1-8 are limited to 30 amps. if your accessory current draw is very small, such as 10 A or 15 A, the original 30 A fuse is too big to protect your accessory, swap the 30 A fuse to fuse to match your accessory power rating. To figure out the current draw of a load rated in watts, simply divide power rating of the accessory by the operating voltage. For example a 300 Watt light bar running at 12V, that would be: 300W/12V = 25 A.Keep in mind that for a lower voltage the current draw will be higher. If the vehicle's voltage drops down to 10V, the current will increase to 30 A. Once your outputs are determined, select the appropriate legends from the Switch Legends sheet, and affix them to the panel. Center each legend inside the grey border of each switch. Should you need to remove a legend, we suggest you use a straight pin and lift at a corner until you can grasp it with your fingers. DO NOT dig at the graphic overlay, as the membrane could be damaged.

There Are 4 Optional Mounting Options to Mount the Switch Panel

DASH MOUNT: The switch panel can be mounted to a flat surface by drilling holes for the M5 mounting studs, and a hole for the harness feedthrough, then screwing the threaded studs into the switch panel and securing the switch panel with the supplied M5 nuts.

FLUSH MOUNT: Cut a rectangular opening measuring 2.598" x 4.413" with a corner radius of 0.209". See template supplied. Insert the supplied threaded studs into the threaded holes on the back of the Switch Panel. Place the switch panel into the opening and slide the two mounting brackets over the studs.
Then secure the mounting brackets with the M5 nuts. Do not over tighten the nuts. **(See Figure 1)**

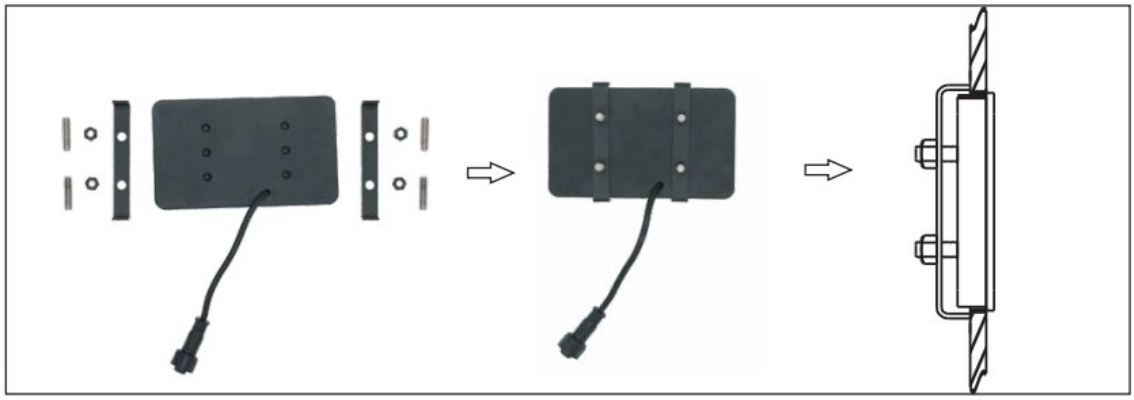


Figure 1

FLAT SURFACE MOUNT: You also can use the ball mount to mount the Switch Panel to a flat surface. Adjust the switch panel to the direction and position you desired then lock the arm. **(See Figure 2)**

Figure 2

TUBE CLAMP MOUNT: You can use the 1.750 to 2.0inch supplied Tube Clamp. Adjust the switch panel to the direction and position you desired then lock the arm.

Installing the Power Module

The Power Module is manufactured with automotive rated electronic parts, with a temp rating of -40 F to 257 F. Care must be taken though not to mount the Power Module in a location near the engine exhaust where temperatures will exceed the rating. Usually on the firewall near the fenders, or along the fenders is a good location.
Do Not mount the Power Module above the engine on the fire wall. Plug the waterproof control wire into the Switch Panel and waterproof power module box. then tighten the lock screws.

Installing the Battery Cable

Connect the battery cable to battery positive. Connect the ground wire to battery negative.

Connecting Accessories

Identify which accessories you will be powering with your Switch Panel Power System. Remember that Switches 1-8 are limited to 30 amps. if your accessory current draw is very small, such as 10 A or 15 A, the original 30 A fuse is too big to protect your accessory, so just swap the 30 A fuse to fuse to match your accessory fuse rating. Connect the accessory directly to the output sockets of the Power Module . The Power Module is waterproof and dustproof . L the waterproof plug. Run positive wire of accessory to the inside through the hole , , loosen the Philips screw on . Tighten the screw until the terminal is sung .**(See Figure 3)**

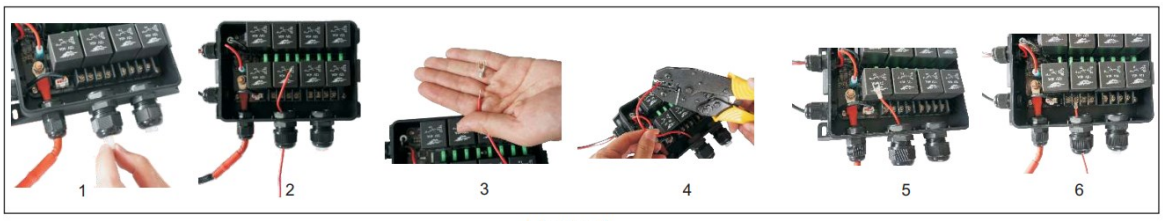


Figure 3

Installing the Trigger Wire(Optional)

Installing the trigger wire to a keyed fuse or wire .The power of UV100 will be controlled by ignition. The switch panel will turn off when ignition is off.
Default and factory setting – trigger control disabled and LVCO enabled , Dip switch 1 is for Low Voltage Cut Off and the dip switch 2 is for trigger controlled. Factory default setting -all accessories hooked can be turned on no

matter your vehicle is on or off .you need to press the on/off switch to turn the switch panel on/off.

Install the Trigger Wire to Enable the Trigger Control

Toggle the dip switch 2 to ON position,**(See Figure 4)** .Connect the trigger wire to ACC power or a Keyed wire/fuse in the fuse box, Connect the trigger wire (small red wire) to ACC or a keyed wire or keyed fuse . Locate the fuse that is for ACC or cigarette plug in factory fuse box, Using the supplied piggyback fuse holder , connect to your factory fuse panel. Remove the existing fuse from the panel and place it into the lower slot of the piggyback fuse holder then plug it into the slot you removed the factory fuse from. Of course , you can select other fuse to tap. for example, if you want the switch panel to work when the headlights light up, you can select the fuse of headlights to tap.
Note: Don't Forget to place the factory fuse you select for tapping, in the lower slot of the piggyback fuse holder.**(See Figure 5)**

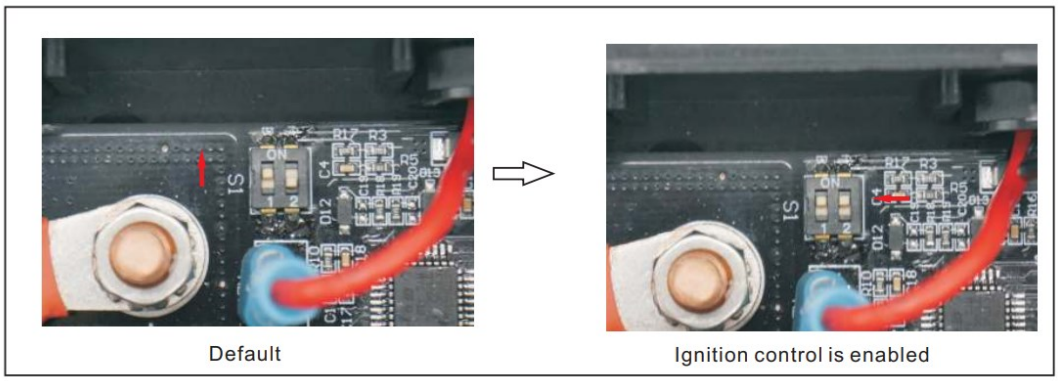


Figure 4

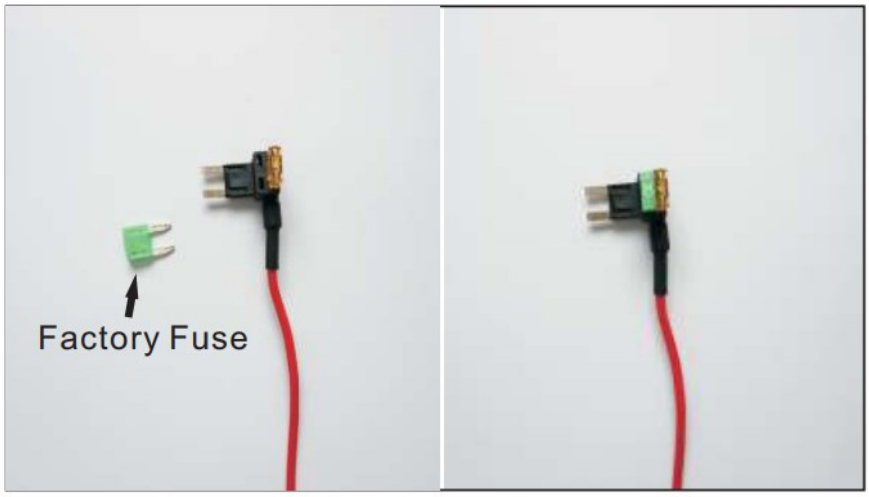


Figure 5

Programming Your UV100

Programming the UV100 through the switch panel. there is 4 different programmable features for each button.

1. ON/OFF,
2. Momentary,
3. Flash,
4. Strobe

Note: Function 3 and 4 have double function. Single Press turns On solid and double press will do various function listed 3 and 4
There is 4 selectable backlighting colors to choose (red, blue, green, white) .

Backlighting LED brightness can be set directly through the switch panel programming

How to Set the Switch Function

Ensure the switch panel is turned on. Press and hold the On/Off switch in the centra for a 3 seconds hold to activate Programming Mode. select the switch to set, Each click of switch will scroll through functions.(Default for
all switches is On/Off) the small amber indicator on the top of the switch will show the function you select. The Amber Indicator LED will flash to the appropriate function each time you click the Switch through the 4 Functions. Especially the indicator only flashes once to show the Momentary function. To save your selected functions when complete, press the On/Off Switch and hold on for 3 seconds to exit Programming Mode and your setting is saved. if one switch is set to flash or strobe, single Press turns on solid and double press will do flash or strobe.

How to Set the Switch Backlight and Brightness

Ensure the switch panel is turned off . Press the on/off switch and hold on for 3 seconds to activate programming mode. he switch panel will lights up, press the on/off switch once to set the color of backlight, It will switch between red, green, blue, white and repeat. To increase the backlight brightness press (switch 4),to decrease backlight brightness press (switch 8) **(See Figure 6)** When complete, press the On/Off Switch for 3 seconds to save.

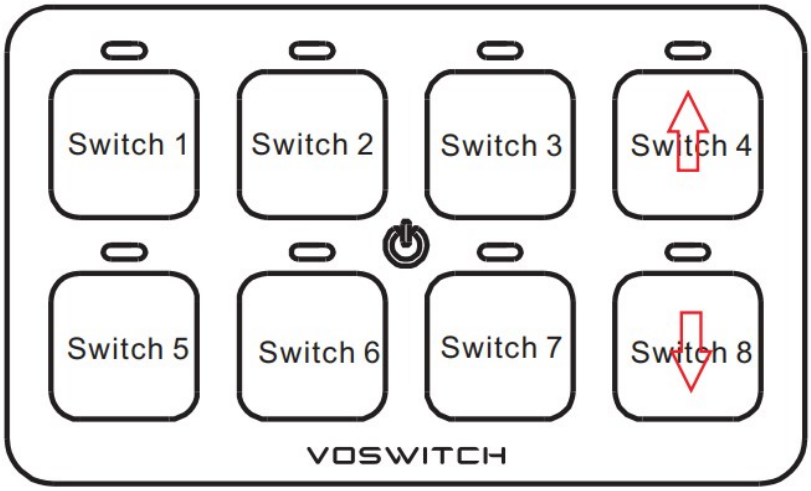


Figure 6

How to Disable the Low Voltage Cut Off Function (If Dual Batteries Installed)

Toggle the dip switch 1 to off position next to the label “1″(default is LVCO) . **(See Figure 7)**

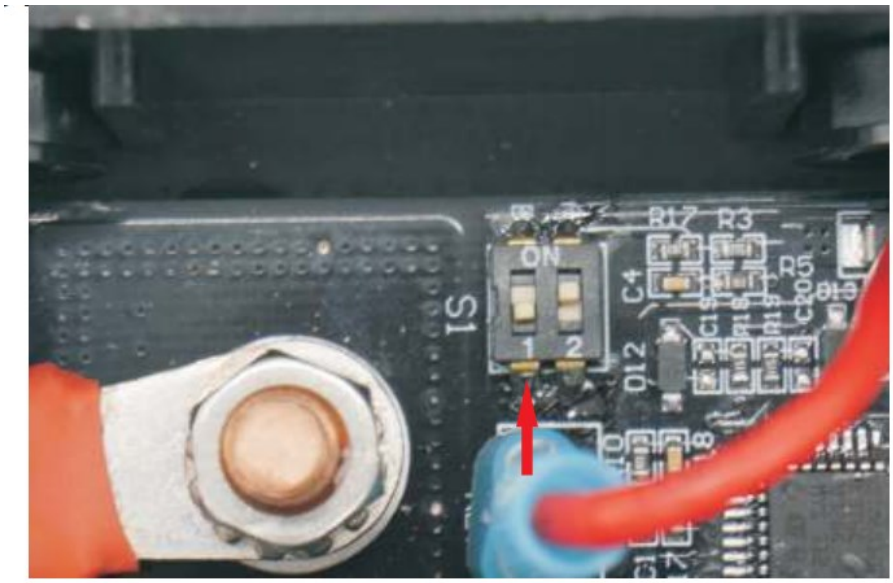


Figure 7

Notice : An accessory that is left on will drain the battery overnight if the Low Voltage Cut OFF is disabled .

Maintain the Power Module

It is always good practice to have backup relay and fuse if you need to replace them. fuse and relay are universal and standard. You can find in any auto parts store or online.

Vehicle Specific Installations

Polars RZR

1. Install the power module near the battery and connect the 8 AGW battery cable directly to the positive terminal of the battery. The battery connection can also be switched with a main cut-off switch. Connect the BLACK negative ground wire coming out of the 16-pin connector, directly to the negative terminal of the battery. The power module can also be mounted at the front of the vehicle, but both the power feed and the Black ground wire need to be connected directly to the battery. DO NOT rely on a frame ground for the Black ground wire. Connect the red trigger wire to the ACC terminal (Orange wire) on the terminal block located at the front of the vehicle under the hood.
   Note: On the Factory terminal block, only the Orange ACC wire is connected to the terminal block. The studs marked GND and Power are not connected. (The GND stud is not grounded).
2. Install the switch panel and route the control wire to the power module . A common place to mount the switch panel is the top cage tube or A-pillar tube, use the clamp or hoop to mount the switch panel onto the tube . Remember to adhere corresponding 3M rubber washer supplied to the clamp to adapt your tube diameter (1.7″-1.75″,1.875″)before mounting.**(See Figure 8 and 9)**

Figure 8

Figure 9

CanAm X3

1. Install the power module near the battery and connect the 8 AWG battery cable directly to the positive terminal of the battery. The battery connection can also be switched with a main cut-off switch. Connect the BLACK negative ground wire , directly to the negative terminal of the battery. The power module can also be mounted at the front of the vehicle, but both the power feed and the Black ground wire need to be connected directly to the battery. DO NOT rely on a frame ground for the Black ground wire. Connect the red trigger wire to the ACC terminal of the terminal block located under center console. Remove the passenger seat for 2-seater or rear passenger seat for 4-seater, and pull the center console and you will find the accessory power terminal. The ACC terminal is the bottom stud.
2. Install the switch panel and route the control wire to the power module. A common place to mount the switch panel is the top cage tube or A-pillar tube, use the clamp or hoop to mount the switch panel onto the tube . Remember to adhere corresponding 3M rubber washer supplied to the clamp to adapt your tube diameter (1.7″-1.75″,1.875″) before mounting.**(See Figure 8 and 9)**

Other UTV/Side by Side

1. Install the power module near the battery and connect the 8 AGW battery cable directly to the positive terminal of the battery. The battery connection can also be switched with a main cut-off switch. Connect the BLACK negative ground wire , directly to the negative terminal of the battery. The power module can also be mounted at the front of the vehicle, but both the power feed and the black ground wire need to be connected directly to

the battery.

DO NOT rely on a frame ground for the ground wire. Connect the red trigger wire to the ACC terminal of the terminal block.

2. Install the switch panel and route the control wire to the power module. A common place to mount the switch panel is the top rail tube or A-pillar tube, use the clamp or hoop to mount the switch panel onto the rail tube. Remember to adhere corresponding 3M rubber washer supplied to the clamp to adapt your tube diameter (1.7″-1.75″,or 1.875″)before mounting.**(See Figure 8 and 9)**

Trouble Shooting

If switch panel doesn't light up, please check the fuse alarm light **(See Figure 10).** you need to replace the 3amp fuse

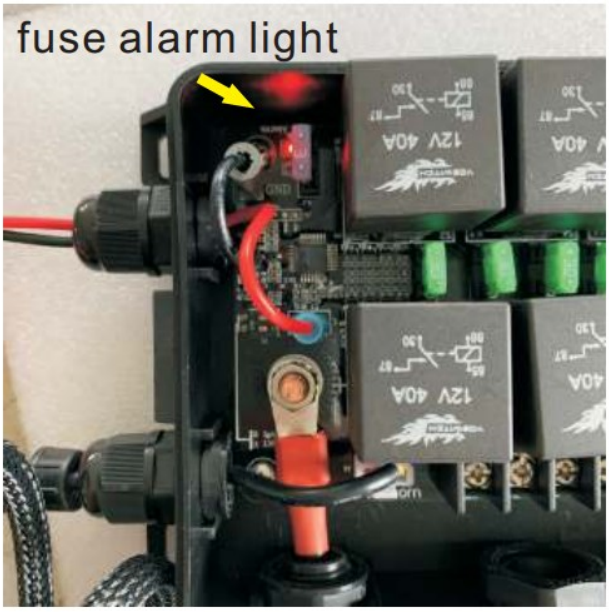
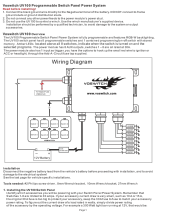


Figure 10

if the alarm light lights up.

www.voswitch.com

Documents / Resources

	VOSWITCH UV100 Programmable Switch Panel Power System [pdf] Instruction Manual UV100 Programmable Switch Panel Power System, UV100, Programmable Switch Panel Power System, Switch Panel Power System, Panel Power System, Power System

References

- A original switch control system manufacturer. we made switch panel for Jeep, truck, boat and UTV.