

# Voswitch JK100 8-Switch Programmable Switch Panel Power System

## 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 JK100 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.

## Overview

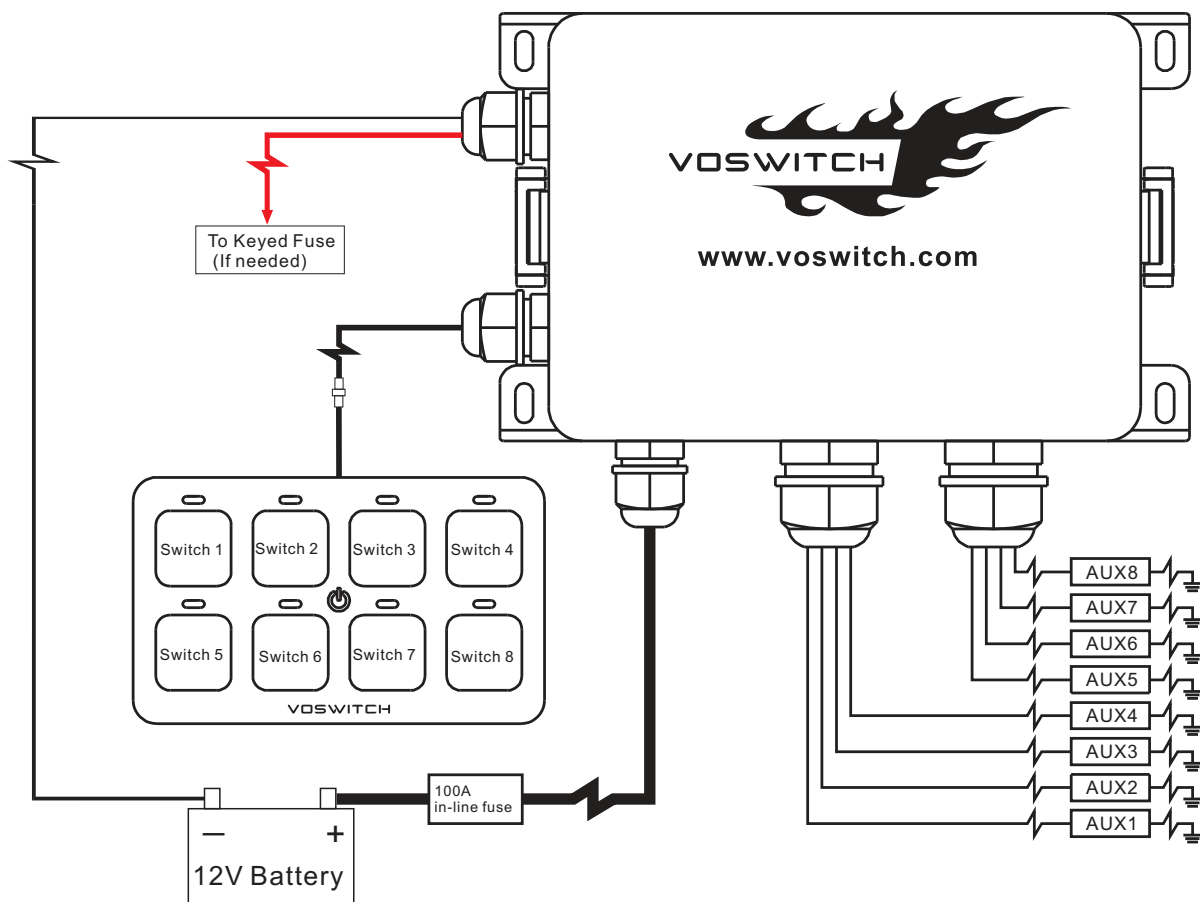
The JK100 Switch Panel Power system is fully programmable and features RGBW backlighting.

The switch panel has 8 switches and one programming/on-off switch. Amber LEDs indicate when the switch is turned on.

The power module has 8 outputs, switches 1 – 8 are rated at 30A.

The power module also has 1 input as trigger, you can hook the small red wire to ignition or ACC or headlight through the add-a-circuit fuse tap supplied.

## Wiring Diagram



## Installation

Disconnect the negative battery lead from the vehicle's battery before proceeding with installation, and to avoid damage to the electrical system!

**Tools needed:** Philips screw driver, 7mm Wrench, 10mm Wrench/socket, 27mm Wrench

### 1. Installing the Switch Panel to the Overhead Footman's Loop

1.1 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.

1.2 Remove the hardtop to start the installation. loosen the 2 screws on the bar to leave about 1 inch gap for the footman loop, insert the loop into the gap between the bar and the tabs. Using a 7mm wrench, tighten the 2 screws on top of the footman loop. Don't over tighten it. Using a phillips screwdriver insert the two self-tapping screws into the plastic trim piece to hold the panel in place. (See Figure 1)

1.3 If needed, the switch panel can be mounted to a flat surface by drilling 5.5mm holes for the M5 mounting studs, and 16mm hole for the control wire.



## 2. Installing the Power Module

The power module should be mounted on the top of the left fender using the supplied 6.5 Feet long battery cable. The power module is manufactured with automotive rated electronic parts, with a temp rating of -40 C to 125 C. Remove the factory bolt from the top of fender, sit the bracket on the fender top, put the factory bolt and a M6 bolt supplied back into the holes and tighten the 2 bolts. (See Figure 2)



Figure 2

## 3. Installing the Control Wire

The hole is on the lower right side of brake booster. feed the control wire through the hole to cab. run the wire to the overhead along the A-pillar. hide the wire below the plastic trim.

Connect the control wire with switch panel and power module, securing all wire with zip ties. (See Figure 3)



Figure 3

## 4. Installing the Battery Cable

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

## 5. 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 change the 30 A fuse to 10 A or 15 A 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 . Loosen the lock nut of the cable glands to take down the waterproof plug , to run positive wire of accessory to the inside through the hole , crimp the Y-shape terminal ( supplied) on the end of the wire, loosen the Philips screw on the socket to allow the terminal to slide in, tighten the screw untill the terminal is sung , screw the lock nut to lock the wire to prevent water in. Do not over tighten it. (See Figure 4)  
The JK100 switches 12V to the accessory . Connect the power module output wire to the positive wire of the accessory. Connect the ground wire of the accessory directly to ground, either a ground stud on the vehicle's frame or to the negative terminal of the battery.

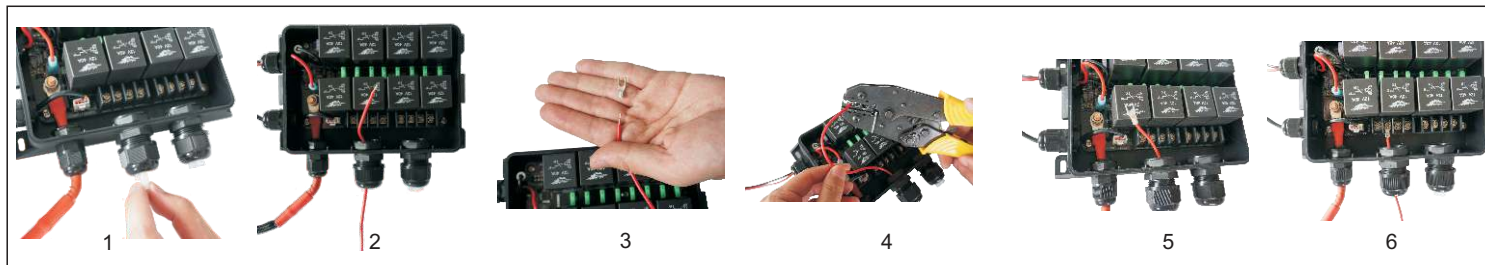


Figure 4

## 6.Installing the trigger wire( If needed)

Installing the trigger wire to a keyed fuse or wire .The control system will be controlled by ignition. The switch panel will turn off when ignition is off.

Default and factory setting is trigger control disabled and LVCO enabled , Dip switch 1 is for Low Voltage Cut Off and the dip switch 2 is for trigger control .at default setting the 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 off.

### Install the trigger wire to enable the ignition control

Toggle the dip switch 2 to ON position,( See Figure 5) .Connect the trigger wire to ACC power or a Keyed wire/fuse to allow the control system only works when the vehicle is on. In general, ACC or CIGAR LTR fuse is better for use. locate the fuse M6 that is for CIGAR LTR in factory fuse box . using the supplied piggyback fuse holder to connect to your factory fuse panel. Remove the fuse M6 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 for headlights to tap. Tip: some year Jeep JKs will use fuse M7.**Note: Don't Forget to place the factory fuse you select for tapping in the lower slot of the piggyback fuse holder.**(See Figure 6)

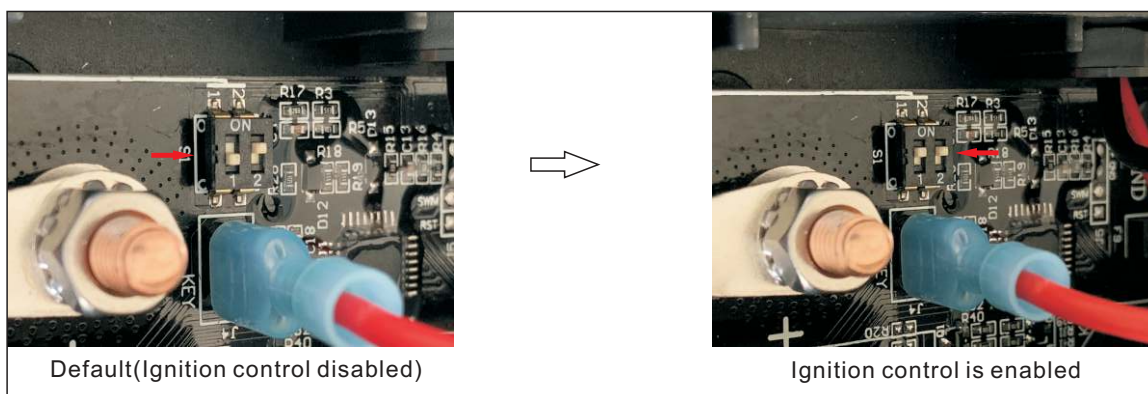


Figure 5



Figure 6

## 7. Programming Your JK100

Programming the JK100 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 center 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.

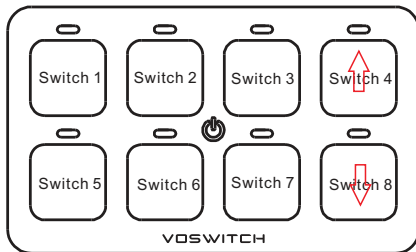


Figure 7

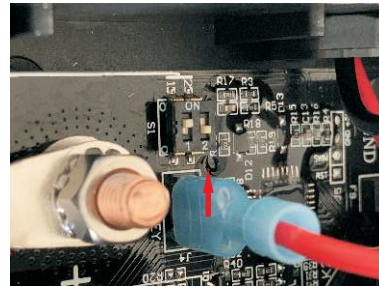


Figure 8

## 8. 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 8)

**Note :** Accidentally an accessory that is left on will drain the battery overnight if the Low Voltage Cut Off is disabled .

## 9. How to reset the system

Plug off the negative terminal then plug it in. the system will be reset .(See Figure 9)

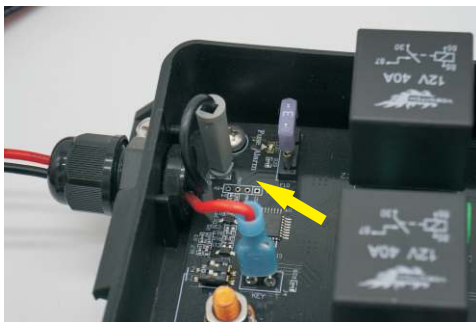


Figure 9

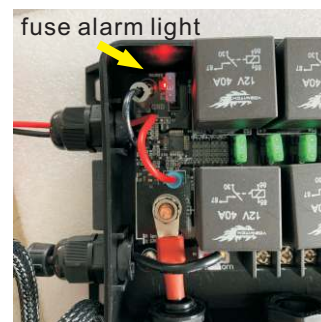


Figure 10

## 10. 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.

## 11. 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 if the alarm light lights up.

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