

# On/Off Auxiliary Switch Unit Installation Guide

Rev. 1.1

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Thank you for purchasing the Accutach Co. On/Off Auxiliary Switch Unit.

Many automotive accessories require toggle switches for control of their functions. Sometimes it is convenient to control a function with two pushbuttons, one to turn the switch on and the other to turn the switch off. This is especially true if you want to control an accessory with a Ford Mustang's steering wheel cruise control buttons (Accutach Co. Cruise Button Box required).

The On/Off Auxiliary Switch Unit consists of two circuits in one small box. Each circuit is designed to work with any two momentary-on pushbuttons switches to control one toggle-switched power output. Each On/Off Auxiliary Switch Unit output can supply battery voltage up to one amp. If greater than one amp is needed, the output must be connected to an external relay (not supplied).

## Before you begin:

You will need to identify a switched battery voltage power supply wire to splice into for power for the Cruise Button Box, and you will need a good chassis ground to ground the unit.

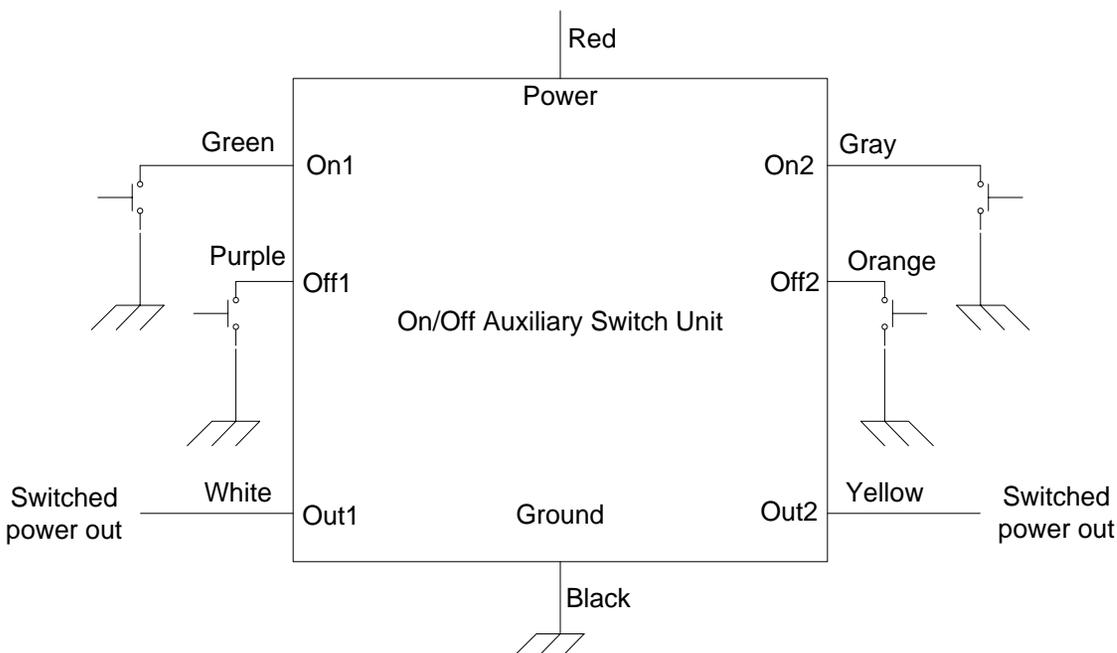
You will also need to locate a suitable place to install the unit inside of the vehicle's cabin, most likely under the dash or in the console near the shifter. It is not intended for use in the engine compartment or anywhere outside of the vehicle. If you wish to create a custom mounting bracket out of ABS plastic you can glue it to the ABS box with standard ABS cement.

## Wiring the On/Off Auxiliary Switch Unit

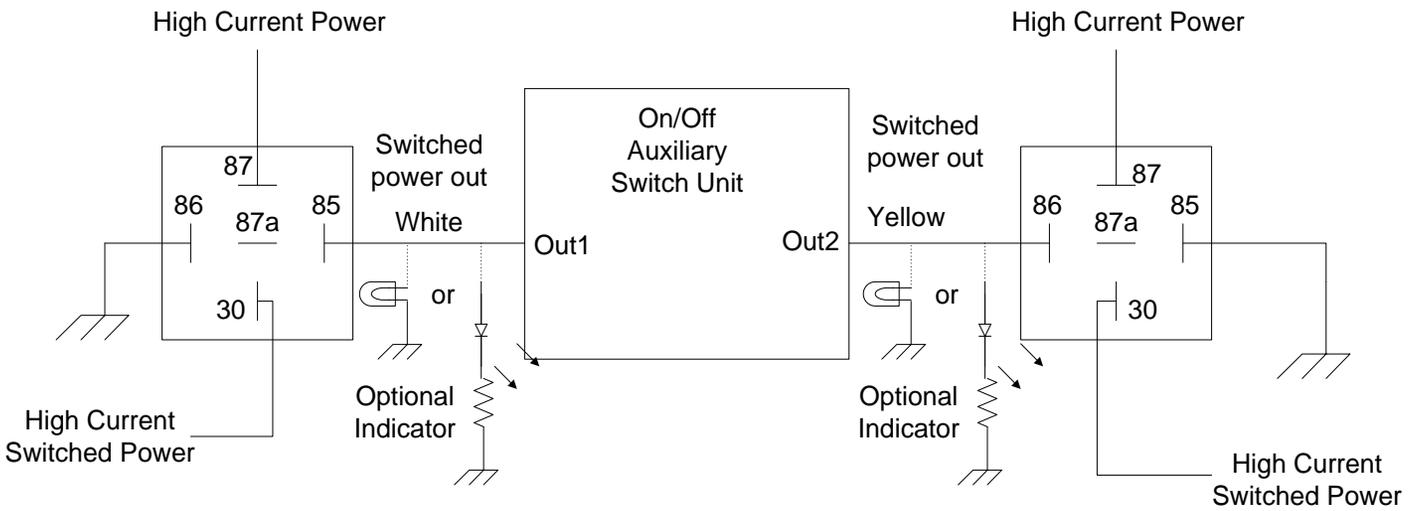
Connect the Red power lead to switched power wire you identified in the section above. Connect the Black ground lead to your good chassis ground.

Connect the Green Input wire to the On1 pushbutton, and ground the other side of the pushbutton. Connect the Purple Input wire to the Off1 pushbutton, and ground the other side of that pushbutton. Connect the White Output1 wire to power the accessory you want to control.

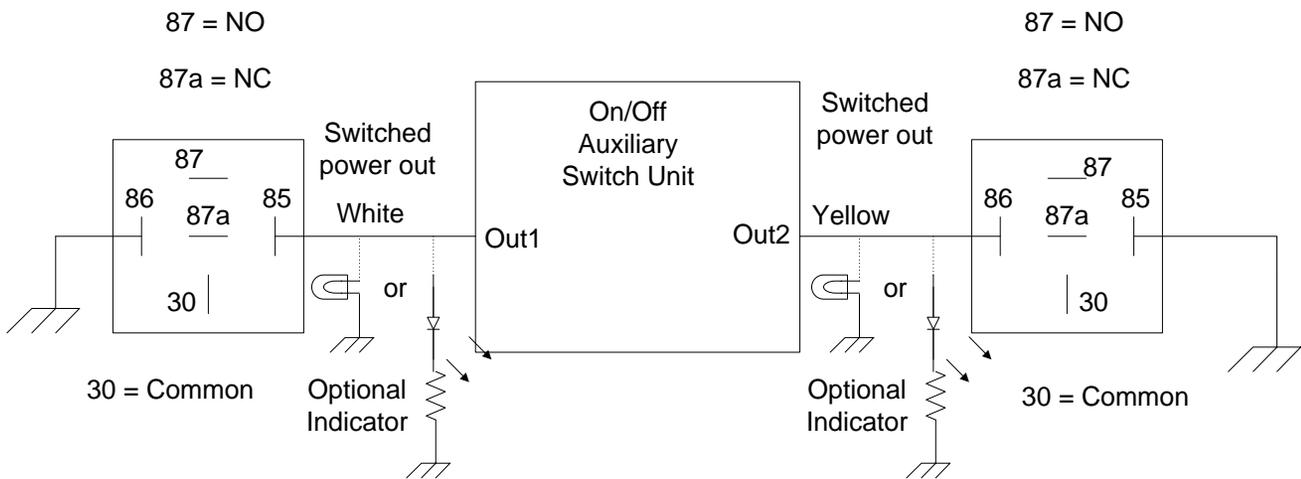
Connect the Gray Input wire to the On2 pushbutton, and ground the other side of the pushbutton. Connect the Orange Input wire to the Off2 pushbutton, and ground the other side of that pushbutton. Connect the Yellow Output2 wire to power the accessory you want to control.



If you need to switch current of more than one amp, you will need to add an external automotive relay:



If a normally open or normally closed switch function is required, simply wire the relays to provide the required switching function.



If you will be unsure of the on/off state of the toggled accessory, you should seriously consider adding a status indicator for the accessory. It can be an automotive indicator lamp, 12V LED, or a regular LED with a current limiting resistor as shown in the drawings above. A 680 ohm, 1/4W resistor is a good value for a 20mA LED

### Operation

Once the unit is wired in and powered, simply press the On pushbutton to turn the output on. Press the Off pushbutton to turn the output off.

### Typical Application Examples

When used in conjunction with the Accutach Co. Cruise Button Box, you could use the Mustang cruise control On button to arm the nitrous system, and the Off button to disarm the nitrous system. You could also use the Set/Accel button to turn on the bottle warmer and the Coast button to turn it off. This would result in a very stealthy nitrous installation.

Either pair of buttons could also be used to control a brake line lock system.

The possibilities are endless.