

EXPRESS SERIES SWITCH PANEL SP-70 BLANK VERSION

Thank you for purchasing the absolute finest of switch panels for your project. Please follow the instructions closely for a successful installation.

STEP 1: MOUNTING THE SWITCH PANEL

The SP-70 switch panel can be mounted in several ways. By itself the SP-70 is an 8 x 3 inch faceplate designed to be panel mounted on a dash or other flat surface. If you are using the SP-70 in conjunction with our SP-95 enclosure, please follow the instructions included with the SP-95 for mounting.

The SP-70 faceplate will require a hole in your dash approximately 6 7/8 inch wide x 2 1/4 inch high. After cutting the hole, use the unassembled faceplate as a template to locate the four mounting holes that mount the faceplate.

STEP 2: ASSEMBLING THE SWITCH PANEL

Install the green indicator lights by snapping them into the smaller holes in the faceplate. Next, install the supplied switches into the larger holes.



STEP 3: WIRING THE INDICATOR LIGHTS

For the On/Off/On switch indicator lights run one of the black wires (or negative lead) on each of the indicator lights to a good ground. For the power lead, the small Y shaped wire harnesses supplied will need to be installed. Using the supplied blue crimp on terminals, crimp to the free black wire (or positive lead) of the indicator lights. Next, attach the blue terminal on the indicator light lead to the blue terminal of the Y adapter. The other two legs of the Y adapter (red ring terminals) are attached to the two end terminals of the on/off/on toggle switches.

For the On/Off switch indicator light, run one of the black wires (or negative lead) to a good ground. The other black lead on the indicator light connects to the "switched" side of the momentary switch. If you are using one of these switches for a HORN, follow the diagram (Figure 2) below when wiring its indicator light. Due to the nature of how the horn circuit works, ground is switched, requiring power to run to the indicator light for proper operation.

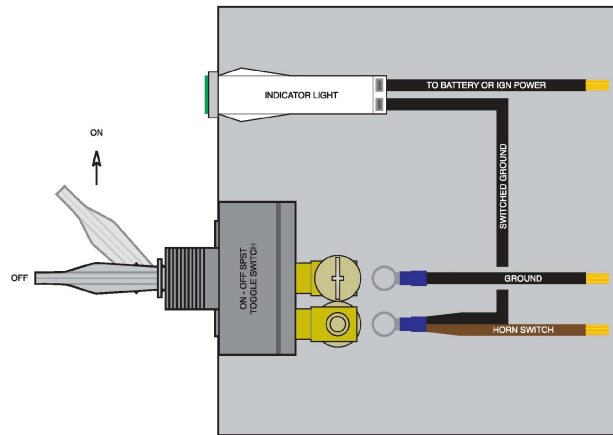
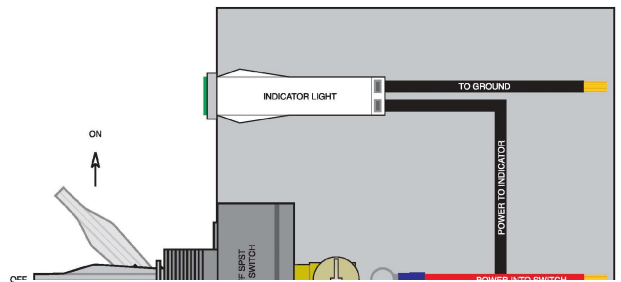


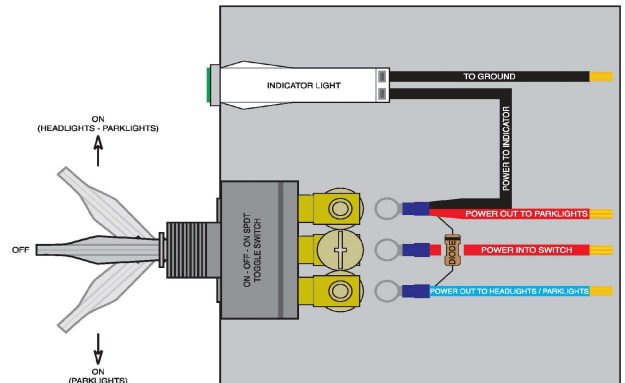
Figure 3

STEP 4: WIRING THE SWITCHES

TO USE AN ON/OFF/ON SWITCH AS AN IGNITION SWITCH: Attach a battery fed input to the center terminal of the switch. Connect a wire from the lower terminal of the switch to your ignition/coil/distributor system. (See Figure 3 below) Refer to Ron Francis Express or Bare Bonz wiring kit instructions for more details.



Fig



TO Figure 6

USE AN ON/OFF MOMENTARY SWITCH AS A START

SWITCH: For the START switch, locate the terminal that you have applied the indicator light wire to and run a second wire (14 gauge) from that terminal through any neutral safety or clutch switch and then down to your starter solenoid. The other terminal of the switch should be empty. Run a wire (14 gauge) from that empty terminal to either ignition hot or battery hot, depending on whether you want to be able to crank the starter with ignition on or any time battery is live. Refer to Ron Francis Express or Bare Bonz wiring kit instructions for more details.

For any of the remaining On/Off/On switches, if you are using a switch to control multiple items, we have supplied diodes to isolate the circuits. The center terminal on the switch is power in and the terminal on each end is for each opposite corresponding throw of the switch. See figures 4, 5 & 6 for more information.

Each switch will require proper fusing for its input. Switches are rated at 20 amp each. If the attached equipment exceeds 20 amps a relay for that circuit is recommended. Follow closely for proper installation:

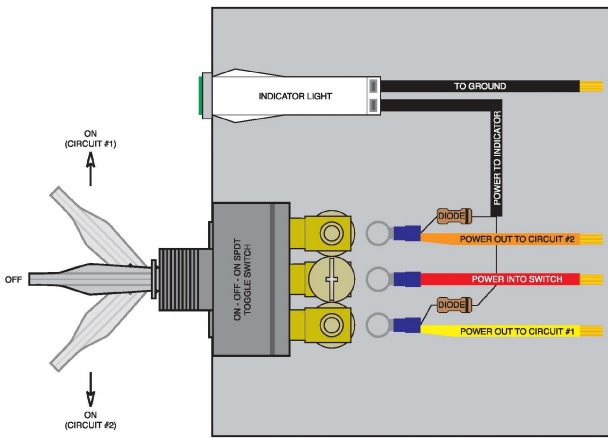


Figure 4
Figure 4 illustrates circuitry allowing use of indicator light for both switch positions. Both switch circuits are separate.

Figure 6 illustrates proper circuitry for a lighting circuit.

TO USE AN ON/OFF/ON SWITCH FOR FUEL PUMP - FAN / FUEL PUMP: Attach a fused input to the center terminal of the switch. Connect a wire from the lower terminal of the switch to your fuel pump. Connect a wire from the upper terminal of the switch to your electric fan. Finally, connect a supplied diode with Orange and Lt Blue wires to the switch. Connect the Orange wire to the upper terminal and the Lt Blue wire to the lower terminal.

TO USE AN ON/OFF/ON SWITCH FOR HEADLIGHTS - PARK LIGHTS: Attach a fused (or circuit breaker) input to the center terminal of the switch. Connect a wire from the lower terminal to the headlights. Connect a wire from the upper terminal to the parking lights. Finally, connect a supplied diode with Orange and Lt Blue wires to the switch. Connect the Orange wire to the upper terminal and the Lt Blue wire to the lower terminal.

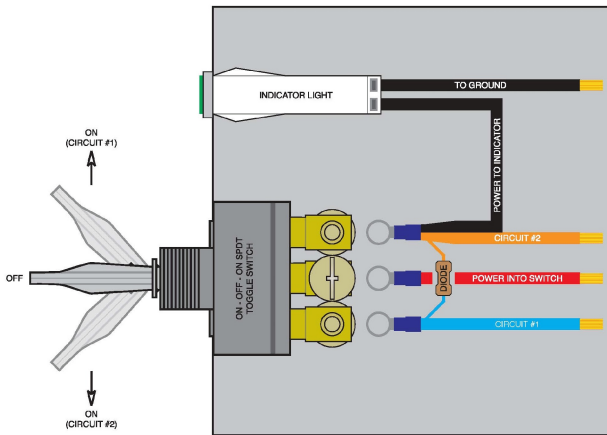


Figure 5
Figure 5 illustrates circuitry allowing power to flow to circuit 2 or circuit 1 & 2.