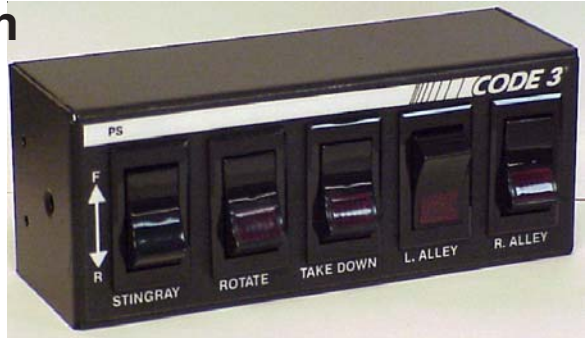


Wiring & Installation Guide

415 Series Rocker Switch Control Panels



Code 3,® Inc., a subsidiary of
Public Safety Equipment, Inc.

CODE 3[®]
PUBLIC SAFETY EQUIPMENT, INC.

RockerPak™

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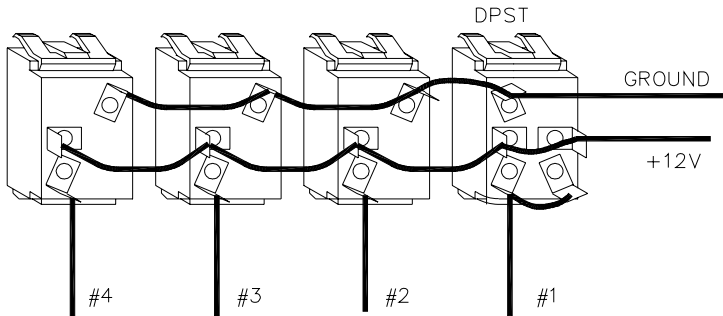
The Code 3[®] RockerPak Series Lighting Control is a reliable and versatile unit with options that allow customized switch packages. The variety of final products is too great to be shown here in its entirety, but factory wiring makes the installation similar to the following examples in most cases.

General Instructions

1. Determine whether your control unit should be wired from the vehicle's battery or ignition circuitry, depending on the need for security and/or total access.
2. See the hook-up details for your model(s) as shown below. If you have a non-standard model, use the hook-up for the model having the same switch in the position illustrated.
3. Use #10 A.W.G. wire feed +(POS)12-volt supply to circuit breaker or fuse, then to switch unit. Circuit protection should be rated at 125% of the total load. Units with factory installed circuit breakers or fuse stacks may be straight wired without additional protection.
4. Units with Legend Backlighting may be hooked up as provided if you choose to operate the system from the ignition circuit. If you plan to operate with the switches always live, carefully cut the single red feed line to the backlighting light bulbs and use a butt-splice connector to provide power from the ignition circuit to prevent battery discharge. Remove the cut off end to prevent short circuits.
5. **IMPORTANT:** You will save time and protect the switches from damage by carefully aligning the male and female spade connectors before inserting. **Use free hand on the rocker switch face to oppose insertion force.**
6. Connect from vehicle chassis to switch unit ground (black wire) using #18 A.W.G. wire.
7. Connect each switch to the appropriate device using recommended wire sizes from the table on page 5, with fuses rated at 125% of each individual wire load. Do not fuse higher than the switch rating.

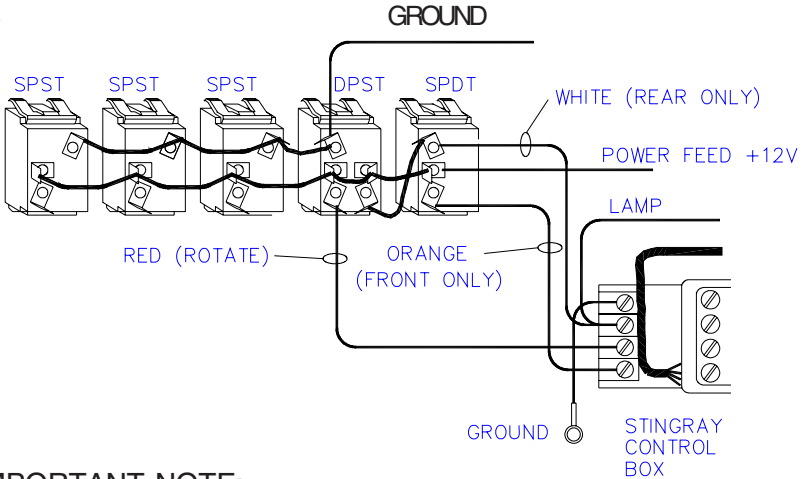
Models 415F, 415PR and 415PO

Use for any control with DPST switch (40 amps) in this position



Models 415PS

Use this hook-up for any control having StringRay™ switching circuits.

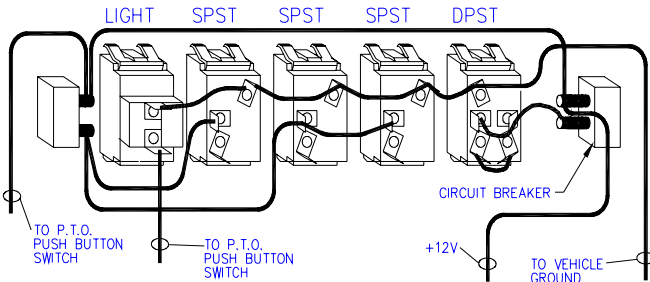


IMPORTANT NOTE:

The STINGRAY and ROTATE switches are wired together to provide the unique operational features of the StingRay oscillating signal. These switches may be activated at the same time; however ROTATE overrides STINGRAY R (Rear only). STINGRAY F (Front only) overrides ROTATE and does not operate unless ROTATE is also activated. The ROTATE switch will be lighted whenever the warning lights are lit.

Model 415T and all models with Circuit Breakers

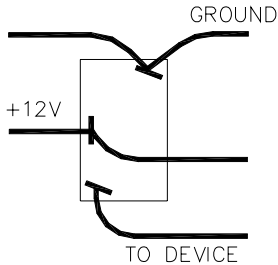
Use this hook-up (as shown on right) for any control furnished with circuit breakers. See page 6 for PTO bracket installation.



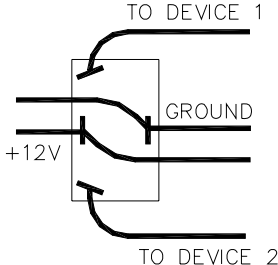
Individual Switches Wiring & Hook-up

Rear view of switches- -top is up.

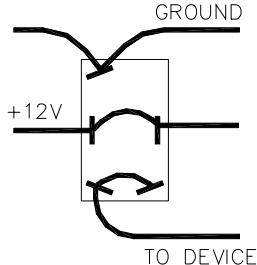
Lighted SPST
P/N T02811



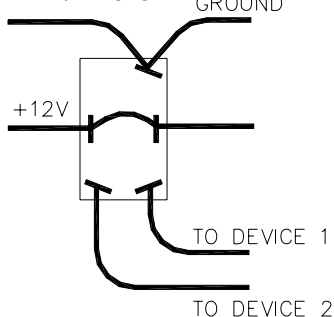
Lighted SPDT
P/N T02812



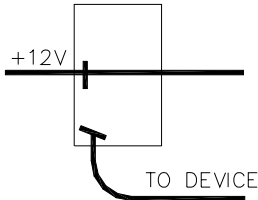
Lighted DPST
P/N T02821



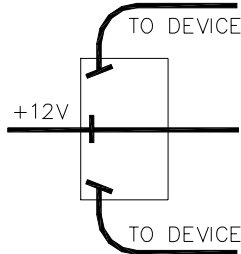
Lighted Progressive
P/N T02824



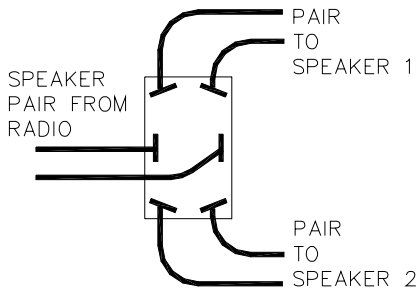
Non-Lighted SPST
Momentary
P/N T02813



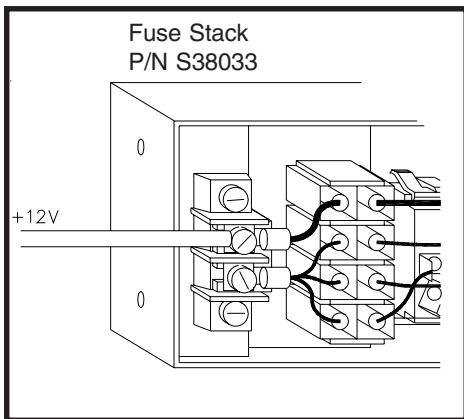
Non-Lighted SPDT
Momentary
P/N T02815



Non-Lighted DPDT
Radio Rebroadcast
P/N T02823



Fuse Stack
P/N S38033



RECOMMENDED MINIMUM WIRE SIZES

BASED ON 15-FOOT WIRE RUN

AMP DRAW	MIN. WIRE SIZE
Below 5	#18 AWG
5-8	#16 AWG
9-13	#14 AWG
14-21	#12 AWG
22-36	#10 AWG

NOTE: Larger wires and tight connections will provide longer service life for switches and improve lighting performance. High ambient temperatures (e.g. under hood) will significantly reduce the current carrying capacity of wires, fuses and circuit breakers.

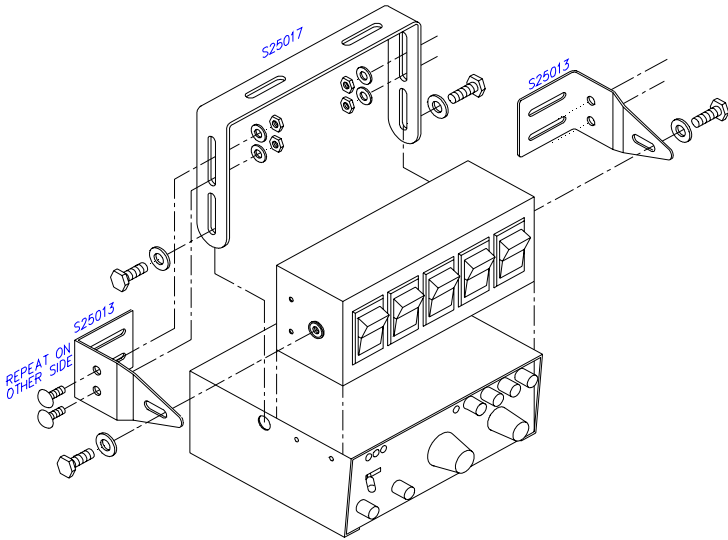
PARTS AND SWITCHES

- SPST** — Single Pole, Single Throw switch; controls a single circuit.
SPDT — Single Pole, Double Throw switch; controls either one or two circuits.
DPST — Double Pole, Single Throw switch; high amperage single circuit.
DPDT — Double Pole, Double Throw switch; for radio rebroadcast.
Radio Rebroadcast — Transfers radio messages to siren speaker.
Momentary — Remains active only while held, springs back to OFF.
Progressive — Turns two functions on or off in a set sequence.

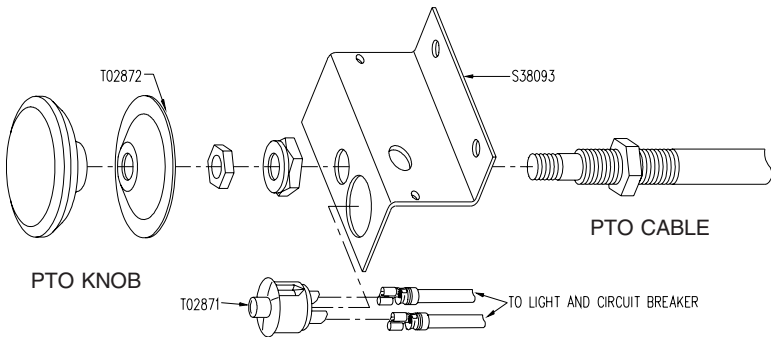
NUMBER	TYPE	APPLICATION	POSITIONS	LIGHTED	RATING
T02811	SPST	Single circuit	OFF-ON	YES	20 amp
T02812	SPDT	Alternate circ.	ON-OFF-ON	YES	20 amp
T02813	SPST	Momentary	OFF-MomON	NO	8 amp
T02814	Blank	Fills hole	—	NO	—
T02815	SPDT	Moment/Moment	ON-OFF-ON	NO	8 amp
T02820	—	Red Indicator Light	—	YES	-
T02821	DPST	High Amperage	OFF-ON	YES	40 amp
T02822	SPDT	StringRay switch	ON-OFF-ON	NO	20 amp
T02823	DPDT	Radio Rebroadcast	ON-ON	NO	8 amp
T02824	PROG	Progressive	OFF-ON-ON	YES	20 amp
T02838	Auto Reset	Circuit Breaker	—	-	40 amp
T02871	Push Button	Switch (415T only)	OFF-ON	NO	1 amp
T02872	Actuator	Disk (PTO unit only)			
S38033	Fuse Stack	(Factory Upgrade—cannot be field installed)			
S38046	Backlighting	Assembly (Bulbs with wires only)			
S38049	Backlighting	Assembly (Complete)			
S38093	Floor-mounting	Bracket, PTO Control			
S25013	RockerPak	Mounting Bracket (2 required)			

Parts not listed should be purchased locally

Suggested Mounting with V-Con[®] Siren



PTO Mounting Bracket Hook-up



NOTES

WARRANTY

Code 3, Inc.'s emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3, Inc. guarantees all parts and components except the lamps to a period of 1 year (unless otherwise expressed) from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty. Code 3, Inc. shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.

PRODUCT RETURNS

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3, Inc. reserves the right to repair or replace at its discretion. Code 3, Inc. assumes no responsibility or liability for expenses incurred for the removal and /or reinstallation of products requiring service and/or repair.; nor for the packaging, handling, and shipping; nor for the handling of products return to sender after the service has been rendered.

NEED HELP? Call our Technical Assistance Hotline - (314) 996-2800

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Public Safety Equipment, Inc.

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