

# The Ray Allen Company Inc.

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## REL-2 Relay Deck



The REL-2 Relay Deck is designed to convert SPDT action switches into a DPDT action. The REL-2 will also drop both power white and gray power leads going to the actuator motor to ground. This motor braking function enables very precise actuator positioning. You will need one REL-2 per actuator.

### Installation Instructions

Secure the relay deck to the airframe. Do not install the REL-2 where it is exposed to excessive heat or vibration. The REL-2 is rated at 1 amp.

The REL-2 Relay Deck needs 12-14 VDC applied to the red wire to operate. There is a separate blue wire that sends power to the actuator. If you are not using our SPD-1 speed control, tie these red and blue power wires together.

You can connect multiple stick grips and/or switches to the REL-2 by wiring them in parallel to the orange and green wires. If you intend on using a RS2 Rocker Switch with the REL-2, note that you will need diodes in line. Refer to **DIAGRAM 2** if you are using a ROS-4 4-way switch. Refer to **DIAGRAM 3** if you are using relays with a RAC stick grip.

**CAUTION!!** Be careful that the white and gray wires running to the actuator **do not touch ground or short together.**

The REL-2 Relay Deck is wired as follows:

**Red wire** = 12-14 VDC +

**Blue wire** = Actuator power wire. Connect this blue wire to the red wire if no speed control is used.

**Black wire** = Ground -

**Orange wire** = Connects to a momentary contact switch(s) to Ground -

**Green wire** = Connects to a momentary contact switch(s) to Ground -

**White wire** = Connects to the white actuator power wire\*

**Gray wire** = Connects to the gray actuator power wire\*

\* **NOTE:** It is very important to test these wire connections to determine if the actuator(s) run in the direction that you desire. This direction can be changed by reversing the white and gray wires that connect the actuator to the relay deck.

