

Application Note #8

Instructions for changing from Ray Allen Relay Decks (RARD) to a Safety-Trim Controller

This information is an addendum to the product installation instructions. It is not a substitute for those instructions. Please read and understand the setup and operation instructions for the Safety-Trim Controller.

- 1) Mount the power switch on the panel and placard for ON-OFF-Reverse

- 2) Connect the RED Power Wire from the center of the switch to the wire previously feeding the RED and BLUE wires on the Ray Allen Relay Decks (RARD).

- 3) **Elevator Trim:**
 - a) Remove the GREEN and ORANGE from the RARD, connect these to the two GREEN wires of the Safety-Trim wiring harness.

 - b) Remove the WHITE wires from the RARD, connect these to the two YELLOW wires of the Safety-Trim wiring harness.

- 4) **Aileron Trim:**
 - a) Remove the GREEN and ORANGE from the RARD, connect these to the two BLUE wires of the Safety-Trim wiring harness.

 - b) Remove the WHITE wires from the RARD, connect these to the two ORANGE wires of the Safety-Trim wiring harness.

- 5) **GROUND:**
 - a) Connect the Black wire labeled aircraft ground, pin 15 of the Safety Trim wiring harness to ground. You may connect this to the black wire that used to feed the Ray Allen Relay Deck.

 - b) The coolie hat switch has a ground connection, this may be made to the aircraft ground or it may be connected separately to the BLACK wire label: all switch grounds, pin 7 of the Safety-Trim Wiring Harness.

6) **2-Speed Switch:**

a) Connect the Air Speed Switch ASW-1 to the Pitot and Static lines, the letter P and S are marked on the switch.

b) There are two small electrical push-on connectors that are used to connect the ASW-1 to the Safety Trim. Connect the White/Black wire of the Safety-Trim to one of the electrical connections on the ASW-1. Connect the other electrical connection of the ASW-1 to Ground. You may use the Black wire, pin 7 marked “all switch grounds” for this connection.

VERY IMPORTANT:

Check the direction of operation of the pitch and roll servos, if they go in the wrong direction you must swap the two white wires of the respective servo to change its direction of travel !