RAC ELECTRIC TRIM SERVOS

Ray Allen trim systems were designed specifically for experimental aircraft. Ray Allen servos are small enough to fit in individual control surfaces or can be used with lightweight springs acting directly on the control system. Ray Allen trim systems also come with RS2 rocker switches and RP3 LED indicators. All Ray Allen indicators are powered off of feedback sensors located inside the servo. These feedback sensors are purposefully isolated from the power supply to the servo motor to guard against possible electronic failure. Ray Allen trim systems also come with a RC8-7 clevis/pushrod kit. Ray Allen has three different T2 and T3 servos available - T2-TA Trim System has 7.2” (18 cm) travel - T2-TA 10A Trim System has 1.0” (26 mm) travel - T3-A Trim System has 1.2” (31 mm) travel

In addition, we also have available the T4-5 Trim System which has .5 inch (13mm) travel. This servo does not have a compatible indicator.

T2/T3 SERVO SPECIFICATIONS
- Operating Voltage: 12-14 VDC
- No Load Current: 150 ma
- Weight: 4oz (113 g)
- Max Thrust: 40 lb (18 kg)
- Max Operating Thrust: 20 lbs (9 kg)
- Output Shaft Moment: 0.7” (17 mm)
- Output Shaft Moment (T2-TA): 0.1” (26 mm)
- Output Shaft Moment (T3-A): 0.1” (31 mm)
- Output Travel Time (T2-TA): 10 seconds
- Output Travel Time (T2-TA): 16 seconds
- Output Travel Time (T3-A): 19 seconds

RP3 LED POSITION SENSOR
- This meter is designed to be installed in the cockpit and give an indication of the servo output shaft position. The ten LEDs are the brightest available for superior visibility in sunlight, but can be dimmed for night flight. It can be installed horizontally or vertically. 3 wires as small as 28 gage connect the indicator directly to a Ray Allen servo (or a position sensor).
- The face plate measures 1.75” x 0.75” x 1.1” deep. The RP3 is the standard position indicator included in R.A. trim systems. Labels are not included with the servos below. They can be purchased below.

POS-10 POSITION SENSOR
- This sensor can be used to measure the position of wing flaps, cowl flaps, or many other mechanisms.
- Small enough to be installed anywhere, size: 2.71” x 0.88” x 0.57”.
- Note: T2 & T3 servos have their own built-in sensors. 1/2” travel.

TPS-1 POSITION SENSORS
- Same as POS-12 Sensor. Measuring only 2.7” x 0.69” x 0.35” (69 mm) x 5” (13 mm) x 0.8” (20 mm). It’s small enough to be installed almost anywhere. 5” (13 cm) travel.

REL-2 SERVO RELAY DECK
- This device converts the momentary contact action of the ROS-4 4-way switch, or any SPDT pushbutton switch, into a DPDT action that is necessary to operate Ray Allen servos.
- You will need one of these relay decks for each servo in your installation.
- Measures 1.6” (40 mm) x 1.8” (49 mm) x 1.1” (28 mm) travel.

RAY ALLEN BEZEL ONLY WITH HARDWARE
- They make an excellent addition to any instrument panel. The bezel was designed to be installed in the cockpit and give an indication of the servo output shaft position. The ten LEDs are the brightest available for superior visibility in sunlight, but can be dimmed for night flight. It can be installed horizontally or vertically. 3 wires as small as 28 gage connect the indicator directly to a Ray Allen servo (or a position sensor).

10/32 THREDS CLEVIS WITH HARDWARE
- Contains one 10/32 threaded clevis fork, stainless steel pushrod and clevis pin hardware.
- This clevis with hardware kit is not compatible with Ray Allen POS series position sensors.

WC2 5-WIRE TEFLEX® INSTALLATION CABLE
- This durable, flexible wire cable is highly recommended for Ray Allen installations. 5 separate color coded, 26-gage, 19-strand, silver-plated, FEP Teflex® insulated wires inside a tough, all Teflex® sheathing.

Prices Subject to Change Without Notice