

GLOSSARY

AILERON/RUDDER COUPLING SWITCH—Flipping this switch on electronically couples the rudder to the aileron; so when the aileron stick is moved, both the aileron and the rudder are controlled for smooth, coordinated turns. Rudder movement can be adjusted to suit any aircraft, and the coupling action can be overridden at any time by the rudder stick.

DIRECT SERVO COUPLING—By plugging a cable from the airborne system into the transmitter, all servos can be operated without sending a radio signal, so trims and controls can be checked and adjusted even while someone else is on your frequency.

DUAL RATE—This switch lets the modeler choose between full servo throw and reduced servo throw while the model is operating. In the off position, 100% servo throw offers maximum control response. In the on position, servo throw is reduced and control response is desensitized. Total servo movement can be adjusted 30% to 100% when the switch is on, letting the modeler tailor the system to his craft.

DUAL RATE EXPONENTIAL—This functions the same as a standard dual rate, but it also allows the modeler to adjust the degree of control response from none (linear) to very pronounced (exponential). So the modeler gets the best of both dual rate and exponential radios in one package.

END POINT ADJUSTMENT—E.P.A. allows up to a 70% reduction of servo movement in either direction from neutral without affecting movement in the opposite direction. E.P.A. can easily allow a plane to be set for 85% throw one way and 96% throw in the other. Setting both sides to the same point reduces the total throw amount without adjusting linkages.

EXPONENTIAL—Exponential control response means the servo movement is not directly proportional to the control stick movement. Over the first half of stick travel, the servo moves less than the stick, making control response milder and smoothing out level flight and normal maneuvers. Over the last half of stick travel, the servo catches up with the stick so that at full travel, 100% servo throw is available for aerobatics or trouble situations.

INVERT SWITCH—When a model helicopter transitions from upright to inverted flight, flipping this switch instantly reverses the pitch, cyclic, collective and tail rotor function to allow inverted flight without mentally flying upside down and having to reverse the control inputs.

LINEAR—Linear control response means that servo movement is directly proportional to control stick movement. 10% stick movement gets 10% servo movement, 50% gets 50%, etc.

PLUG IN R.F. BOARD—A plug in R.F. board permits the signal-generating portion of the transmitter to be easily changed to any of the 27, 53, 72, or 75 MHz bands or to AM or FM, just by changing the R.F. boards.

SERVO REVERSING—This feature allows the modeler to reverse a servo's rotation at the flip of a switch, so servos can be mounted in any way and proper rotation then selected.

SPAN CONTROL—This transmitter knob allows modelers to adjust the steering control throw on surface vehicles. The throw can be reduced up to 70% while the model is running to smooth out over-sensitive handling.

TAIL ROTOR COMPENSATION—Used in helicopter operation, this feature automatically increases tail rotor speed when the throttle is advanced to counter the increased torque.

THROTTLE HOLD—This switch freezes the throttle in a position while still allowing collective pitch to be operated by the left stick.

TRAINER SYSTEM—With this feature, a cable couples two Airtronics transmitters to control the same plane. While student pilots are training, the instructor can take over instantly at the first sign of trouble.

SPECIALIZED ACCESSORIES

Peak performance demands specialized equipment. That's why Airtronics has committed itself to the design and manufacture of a complete line of accessories, all carefully engineered to meet the modeler's most challenging applications.

92000 Receivers	96000 Special Accessories
93000 Crystals and Modules	97000 Wiring Harnesses and Cables
94000 Servos	98000 Servo Trays and Arms
95000 Batteries and Chargers	99000 Service Parts and Flags

HIGH QUALITY KITS

The Airtronics tradition of excellence is also continued in our line of premium quality kits. We hand select the finest grades of woods and then machine cut and shape each part by hand to assure the best possible quality. Kits include complete hardware packages, full sized rolled plans, and easy-to-follow, step-by-step instruction manuals.

900102 O-Tee	900213 Olympic 650	900306 New Era .40
900208 Olympic II	900302 New Era III	900307 Jetfire .20
900211 Sagitta 900	900305 Monarch .05	900308 Jetfire .40
900212 Sagitta 600		

 **AIRTRONICS[®] INC**
Quality R/C Systems and Kits

THE AIRTRONICS COMMITMENT

At Airtronics, we're committed to producing the highest quality R/C equipment at the most reasonable price. Our transmitters offer all of the sought-after features like dual rate, servo reversing, servo throw adjustments, and a host of mixing and coupling capabilities.

As an added advantage, all of our transmitters, receivers, servos, and accessories are fully compatible. This compatibility, along with our transmitters' plug-in R.F. design, allows you to easily and inexpensively upgrade your system a step at a time—instead of replacing the whole system.

And because our staff includes modelers who span the entire range of modeling from sport flyers to national champions, you get years of first-hand experience built into every component we make.

So whether you're a Sunday flyer or a seasoned competitor, compare the quality, features, and reliability of Airtronics to anything the competition has to offer. Dollar for dollar, we're confident you'll find our equipment to be the best buy available anywhere.

 **AIRTRONICS[®] INC**

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CS7P ■



XL6 ■



CS6H ■



XL4 ■



CS7PS ■ ■

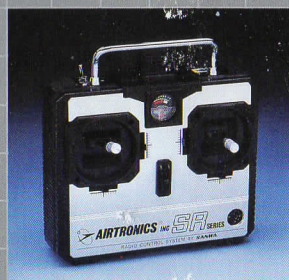


CS3W ■ ■



XL2W ■ ■

- Aircraft systems available
- Helicopter systems available
- Car systems available
- Boat systems available



SR4 ■ ■ ■ ■

CHAMPIONSHIP SERIES The CS Series has all the features serious modelers demand. Dual rates, adjustable exponential, coupled aileron/rudder, servo reversing, (E.P.A.), and (T.T.A.), trainer system, mixing capabilities, and available in AM or FM systems.

All radio systems feature full one-year limited warranty.

XL SERIES With top of the line quality and technology. The XL series is perfect for the sport flyer. Systems feature servo reversing, a choice of exponential or linear response, trainer system, and plug-in R.F. modules for either AM or FM operation.

CAR AND BOAT RADIOS Airtronics offers complete lines for car and boat enthusiasts, that are available in two and three channel systems in both wheel and stick configurations. Servo reversing, adjustable exponential, dual rate steering, (E.P.A.), (T.T.A.), and AM and FM plug-in R.F. modules.

SR SERIES An excellent choice for the value-conscious modeler. State of the art circuitry, servo reversing, dual rates in the SR6DR, trainer system (except SR2), plug-in R.F. modules and has full compatibility with our more expensive components make this an outstanding system for the first-time flyer.

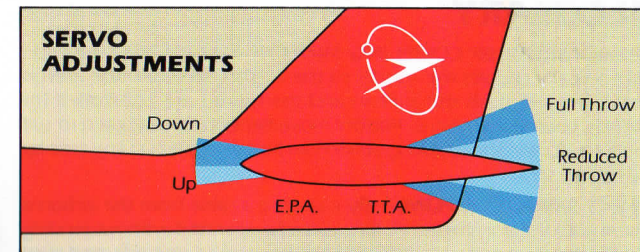
SERVO SENSATION

Airtronics servos have developed a remarkable reputation for out-classing virtually every servo in their size and weight categories. Their high torque, rugged reliability, and accurate resolution have made them the preferred brand by most serious R/C aircraft, car, and boating enthusiasts. Many Airtronics servos include state of the art design innovations like ball bearing supported output shafts and coreless motors for improved efficiency and longer life.

AIRTRONICS SERVO SPECIFICATIONS

94394 94401/403		94461/462 94501		94509/510 94581		94551/553/554/557	
PART NUMBER	SERVO DESCRIP.	DIM.	TORQUE	TRANSIT	W.T.	PART NUMBER	SERVO DESCRIP.
94394	Standard	1.54" x 0.79" x 1.59"	48 oz. in.	0.5 sec. (90°)	1.8 oz.	94551	Ball Bearing Standard
94401	B.B. Micro	1.22" x 0.59" x 1.22"	32.5 oz. in.	0.5 sec. (90°)	0.95 oz.	94553	B.B. Retract
94403	Hi-Speed B.B. Micro	1.22" x 0.59" x 1.22"	25 oz. in.	0.25 sec. (90°)	0.95 oz.	94554	Coreless B.B. H.D.
94394	Supplied as the standard servo in our radio systems, the 94394 has proven completely reliable in years of worldwide use. Suitable for all applications up to .60 aircraft, 3.5 boats, and any car model.					94557	Hi-Speed B.B. Coreless
94401	The industry leading micro servos. Ball bearing output shafts and coreless motors make the 94401 and 94403 the most powerful and reliable servos in their class. For any application where size is a primary concern along with performance.					94551	Our finest all-around servos. Features include compact size, exceptional resolution and accuracy, ball bearing output shafts, coreless motors (94554 and 94557), and carbon pots and wipers. The choice of champions in aircraft, helicopters, cars, and boats. The 550 series servos are the clear choice when only the best will do.
94461	B.B. Mini	1.45" x 0.70" x 1.15"	35 oz. in.	0.4 sec. (90°)	1.1 oz.		
94462	Hi-Speed B.B. Mini	1.45" x 0.70" x 1.15"	27 oz. in.	0.2 sec. (90°)	1.1 oz.		
94501	MicroLite	1.06" x 0.49" x 1.06"	18 oz. in.	0.4 sec. (90°)	0.8 oz.		
94461	With its I.C.'s and ball bearing output shafts, the 94461 and 94462 are a compact alternative to the 94394, suitable for sailplanes, 1/8A models, .40 size aircraft, and 1/2 scale electric cars.						
94501	This ultra-small servo is recommended for 1/8A models, and small sailplane or electric power models. The microLite servo compares favorably in size, weight and performance with any servo in this size class.						
94509	Heavy Duty Waterproof	1.87" x 0.90" x 1.54"	73.5 oz. in.	0.7 sec. (90°)	2.29 oz.		
94510	Coreless Heavy Duty Waterproof	1.87" x 0.90" x 1.54"	100 oz. in.	0.5 sec. (90°)	2.50 oz.		
94581	Sail Winch	3.54" x 1.57" x 1.77"	180 oz. in.	8.0 sec. (200°)	5 oz.		
94509	The durability and power of these servos is unsurpassed. Perfect for large aircraft or large inboard boats, the 94509 and 94510 feature a massive gear train, heavy duty amplifier and carbon pots and wipers.						
94581	This compact and lightweight sail winch provides high-torque and quick transit for all sailboats up to the 36/600 class. The finest unit of this type available.						

All servos feature an exclusive 23 position splined output shaft for easy servo centering and control surface adjustments.



END POINT ADJUSTMENT (E.P.A.) This feature lets the modeler adjust the servo for a different amount of throw in each direction from neutral.

TOTAL THROW ADJUSTMENT (T.T.A.) With this adjustment feature, modelers can cut down the servo throw equally on both sides of neutral for reduced response.

