

zer in place and then add the control horn to the elevator and attach to stabilizer with cloth hinges. Glue the rudders in the tube slots.

Control System. Glue the 1/8" plywood bellcrank mount in the center wing section to the front of the dowel spar. Thread the lead-out wires through the ribs, attach to bell-crank and screw or bolt the bell-crank in place after fitting the push-rod to the control horn.

Landing Gear. Cut the round 3/32" nose plug from plywood and bind the 1/16 diameter piano-wire to the rear of this plug so that an engine can be mounted on the front surface. Glue this plug in place. Bind the other two landing gears with thin wire to the 1/8" plywood mounts and glue in place along with the triangular brace. Add the rubber speed wheels and hold in place with a soldered washer.

Finish. After gluing a 1/8 ounce weight to the outboard wingtip, cover the wing with wet (dry if you prefer) Silkspan and dope outer edges to hold in place. Cut the two fuselage motor mounts from the 3/32 inch plywood and glue in place. Cut out the center sections of these mounts to reduce weight. Cut the nose cones from stiff paper and attach with a contact cement. In this way, they can be removed easily without cutting or tearing. The entire model is ready for two coats of clear dope followed by two coats of colored dope. Little or no sanding is required. Your model should be completed and ready for flight after you have installed the engine(s) with wood screws. The center of gravity is anywhere from the wing struts to the leading edge.

Flying.

If you are using two engines, be sure to use wire lines of about 35 feet in length. My nylon lines snapped when both engines peaked out. It won't matter which engine stops first since there is plenty of outward pull even to do stunts with only one running engine. Due to the light weight of this model, the single engine version provides plenty of sport. Three engines ought to furnish quite a thrill—but as yet, no one has tried this combination. Actually, two or even three .020's would provide ample power. If this is your first multi, the hum of those two engines plus the increased power will add a new dimension to your flying fun!

VTO

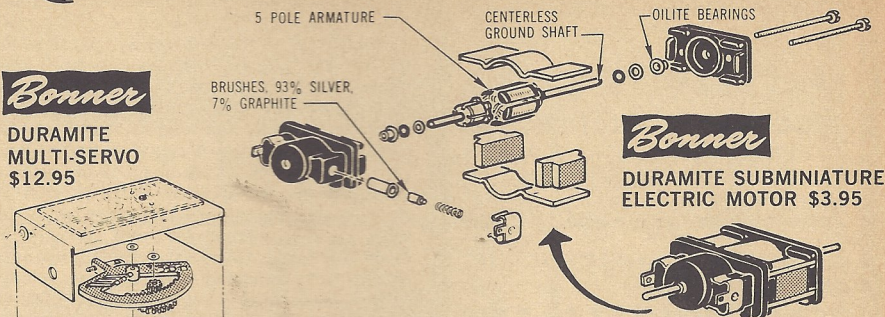
(Continued from page 9)

Wakefield which appeared in MAN (Dec. '59). Dan recommends the optional T.E. bracing and false ribs shown on half the wing in the above drawing. The long tail moment arm was influenced by Canada's McGillivray, whose long ships have a slow, majestic glide and good stability.

The George Reich influence can be seen in the functional fuselage. The simple movable wing mount is especially handy—Dan changed the wing position twice at the Semi-Finals. This fuselage provides plenty of room for the rubber, and the built-up construction gives natural turbulence, (he points out that a Russian model had thread spaced along a tube fuselage for this purpose.). The bottom of the fuselage is sheathed with 1/16 balsa from the nose to just aft of the rear motor peg. Placement of the dural motor peg wasn't chosen until the 16 strand Pirelli motors had been fully wound and the length checked—this kept any knots out of the unwound motor. Access to this rear peg is thru a hatch on the top of the fuselage.

The fin, which is built of 1/16 x 1/8 "ribs" bent over the 1/8 sq. spars, gives excellent stability in the position shown. The raked-back rudder tab set in the upper corner of the fin deflects the model

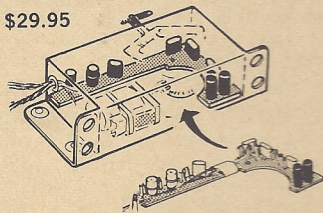
QUALITY YOU CAN DEPEND ON



Bonner
DURAMITE
MULTI-SERVO
\$12.95

Bonner
DURAMITE SUBMINIATURE
ELECTRIC MOTOR \$3.95

Bonner TRANSMITE
MULTI-SERVO
\$29.95



The design and production of R/C actuators must be of high quality in order to prevent malfunctions and loss of control.

Another, less obvious requirement is to prevent drop-off of performance from wear during long-life usage. Otherwise periodic adjustments will have to be made in the system.

The exceptionally high quality of Bonner R/C actuators provides insurance, both against malfunctions and performance changes during long-life usage.

Bonner R/C products are sold by leading hobby shops throughout the world.

BONNER Specialties, Inc. 9522 W. JEFFERSON BLVD.
CULVER CITY, CALIF.

WYLAM PLAN SETS!

NEW! EACH SET CONTAINS EIGHT 14" X 20" PLANS! BY THE ACKNOWLEDGED MASTER OF THE HISTORICAL PLAN! UNSURPASSED DETAIL OF CLASSIC WW I & WW II PLANES! ORDER NOW WHILE SELECTION IS STILL COMPLETE

<p>SET # W-1 SOPWITH CAMEL Famed WW-1 English pursuit</p> <p>WRIGHT MODEL A A true pioneer—a gem!</p> <p>WRIGHT MODEL B Another collector's item</p> <p>SE-5A WW-1 pursuit—a favorite</p>	<p>SET # W-2 SPAD S-XIII C 1 Renowned WW-1 French pursuit</p> <p>CURTISS MODEL A A competitor of the Wrights</p> <p>SPAD S-VII Great French WW-1 pursuit</p> <p>WRIGHT FLIER Man's first flyable plane</p>	<p>SET # W-3 CURTISS P-1 HAWKS Glamorous Army fighters</p> <p>F11C-2 GOSHAWK Navy carrier fighter</p> <p>P-6E HAWK Greatest of all the Hawks!</p>	<p>SET # W-4 REPUBLIC P-47D The wonderful Thunderbolt</p> <p>SPITFIRE 2 Battle of Britain hero</p> <p>MESSERSCHMITT Me-109J WW-2 German fighter</p> <p>CURTISS P-40D American WW-2 Warbird</p>
<p>SET # W-5 GRUMMAN F6F-3 Navy's shipboard fighter</p> <p>DOUGLAS C-54 Air Force transport</p> <p>DOUGLAS A-26 Invader—now B-26</p> <p>BOEING B-17 The Flying Fortress</p> <p>CONSOLIDATED B-24 Liberator—a heavy!</p> <p>CURTISS A-25 Navy divebomber</p>	<p>SET # W-6 CONSOLIDATED PBY That Catalina!</p> <p>NORTHROP P-61 Black Widow!</p> <p>BOEING B-29 Famed Superfortress</p> <p>BOEING C-97 Military transport</p> <p>MARTIN B-26 Medium bomber</p>	<p>SET # W-7 ALBATROS D-1 ALBATROS D-2 ALBATROS D-3 ALBATROS D-4 ALBATROS D-5 ALBATROS D-6</p> <p>World War 1 German Air Force made wide use of these fighters.</p>	<p>SET # W-8 WACO D-6, C-6 Favorites in 30's</p> <p>LOCKHEED HUDSON For England WW 2</p> <p>GRUMMAN F3F-1, 2 Carrier biplanes!</p> <p>BELL AIRACOMET First U.S. jet.</p>

EACH SET \$1.00— ALL EIGHT \$7.00 NO STAMPS PLEASE

Set # W-1 Set # W-5
 Set # W-2 Set # W-6
 Set # W-3 Set # W-7
 Set # W-4 Set # W-8
 Enclosed \$7.00 for all eight sets.

Name _____
Address _____
City _____ State _____

AIR AGE INC • 551 FIFTH AVENUE • NEW YORK 10017, N. Y.