

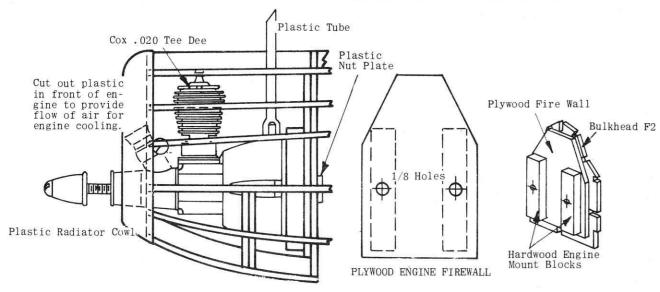
Assemble and trim all plastic parts, see detail note. Cement cowl to F1. Cement stabilizer horizontally to top rear of fuselage. Cement rudder to top of stabilizer and against rear of fuselage, in line with L2. Cement lower wing in place on bottom of fuselage. lining up double ribs with fuselage sides. Check that both tips are same height from flat surface. Lower wing must be dry before proceeding. Prepare all struts as shown & described in detail note. Pin emporary wing support WS to top of L1, 1" back from rear of F1. Pin top wing in place, center ribs W1 over WS. Insert outer struts into gusetts in top & bottom wings as shown, and cement in place; making sure wings are parallel with each other. Insert longer center struts into wing and L8 & L9 gussetts as shown. Complete by installing short center struts into wing & L10 & L11 gussetts. Use two coats of cement on all strut attachments, allowing drying time between coats. It is necessary to have access to rear hook to replace rubber motor. Fit a 1/16 balsa between F7 & F8 on side of fuselage from L6 to bottom stringer. Cut out stringer in between. Cement cloth tape to top end, half over door to act as hinge. Hold free end with Scotch Tape. Open when installing rubber motor. Complete propaganda leaflet mechanism as described in detail note. Make landing gear struts as described in strut detail. Cement front struts over wire landing gear as shown. Slip top of rear struts into notch in WT6 in lower wing. Top remains free to provide shock absorbing travel. Securely cement SB

> COCKPIT PATTERN

across bottom of struts. On engine powered models, make landing gear struts from hardwood. When dry add an additional coat of cement and wrap with tissue or silk for maximum strength. Model is now painted. If it is to be painted scale colors, see three view drawing or box top. For best flight performance, use a minimum of color dope. Apply decals by dipping in water and sliding off into position shown. Cut instrument panel from plan and cement to F5 in cockpit. Cement machine guns in place. Outlines of scale control surfaces can be drawn on with India Ink. Insert wooden wheel bearings in wheel. Place wheels on axles. Secure by bending up end of axle or with drop of cement or solder. Cement die cut windshield in place on front of cockpit as shown on side view. Hold with pins until dry. Insert straight end of propeller shaft thru rear of nose bearing. Slip two washers provided and insert shaft thru back of free wheeling propeller. Bend about 1/4 of shaft at right angle, as shown on side view Tie double square knot in length of rubber. Wet rubber first to prevent fraying. Double up to make two loops then insert rubber thru side trap door and engage in rear hook. Slip remainder of rubber into fuselage & shake down towards Make hook on end of a piece of wire. Slip thru hole in cowl and capture rubber on hook. Pull thru cowl and engage prop shaft. Nose bear ing fits into center hole in cowl. Your Ansaldo S.V.A.5 is now completed. See Flight Instructions before attempts to fly are made. GOOD LUCK AND



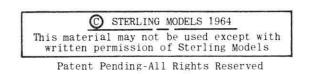
Factory new Ansaldo's awaiting delivery

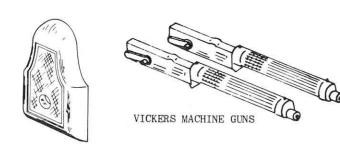


ENGINE INSTALLATION

Engine is used if model is being built for control line, free flight or radio. Engine & installation material not provided in kit. Drawing shows installation of Cox .020 Tee Dee Engine, however, any other similar engine may be used. Front of model should be covered with 1/32 or 1/16 sheet balsa back to F6. Top is cut out for engine clearance Obtain a piece of 1/16 plywood & cut engine fire wall, using full size drawing, drilling holes indicated. Cut two engine mount blocks 3/16 x 1/4 x 1%from hardwood. Cement them securely to plywood fire wall in position shown. When dry, drill 1/8 holes thru blocks & fire wall. Mount engine to fire wall with #2 nuts & bolts, tightening nuts securely. Cut plastic nut plates from molded sheet & securely cement to back of wire wall over nuts, drilling hole thru so that bolts can protrude. Use cement generously. Nut plate keeps nuts from turning

so that engine can be removed by just unscrewing bolts. When dry, remove engine. Securely cement fire wall to front of F2. Cut molded engine cowl from plastic sheet as described in detail note & fit Trim cowl to clear engine. Cowl is not installed until after model is painted and engine is installed. Cowl is then cemented or held in place with small wood screws. If it becomes necessary to remove engine for any reason, break cement joint of cowl. Engine is then re-installed & cowl re-cemented or screwed back in position. Add a 1-3/8" length of 1/16 I.D. plastic tubing to fuel tank fill & overflow tubes. Cut top of tubing at angle facing forward for easy admission of air stream. Make needle valve extension by forcing a length of 1/8 I.D. plastic tubing over head of needle valve. Force a length of 1/8 dowel into end of tubing. Dowel should protrude at least 1/2 past cowl.





RADIATOR COWL PLASTIC PARTS DETAIL

For best results, follow instructions carefully. PILOT: Cut halves from plastic sheet, leaving about 1/16 excess material. Carefully cut out slots on excess material (about 1/8" wide) on top, bottom and both sides, right to the edge of the pilot itself as shown. This will permit accurate assembly of halves. Cement halves together, lining up carefully at slots. Use plastic or model airplane cement when assembling and attaching plastic parts in place. USE SPARINGLY, since excessive use of cement may distort the plastic. After assembly is thoroughly dry, trim and sand off smooth. After painting (first read Paint Instructions at end of this note) pilot is cemented in cockpit as shown in side view. NUT PLATES: Cut from sheet and install behind firewall as described in Engine Installation. COWL: Cut from sheet, leaving about 1/16 excess material. Trim excess material care-

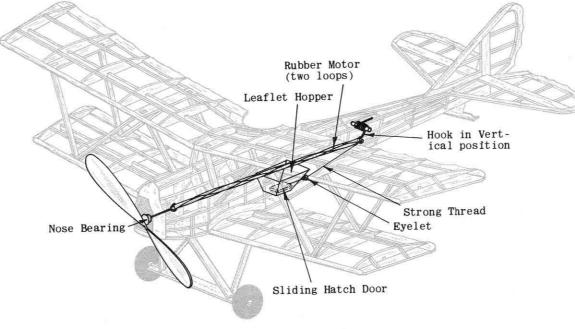
fully and sand smooth. Cowl may be placed on F1 for support while trimming and sanding. Install as described in Final Assembly or Engine Installa tion. MACHINE GUNS: Cut from plastic sheet and trim carefully. Paint Olive Drab and cement in place after model is painted. PAINTING: Use regular plastic model paint or enamel. Model airplane dope can be used ONLY IF APPLIED IN LIGHT SPRAY COATS, allowing paint to dry thoroughly between coats. Excessive use of dope may deform plastic. Parts may be used red. If painting a lighter color, apply a light coat of silver, folowed by a light coat of white; before painting final color. Darker colors may be applied directly to red plastic. When cementing parts in place on model, use light coats of cement applied SPAR-INGLY. If necessary, use more than one coat, but DO NOT APPLY A THICK COAT AT ANY TIME.

INSTRUMENT PANEL

Cut From Plan And Cement To F4

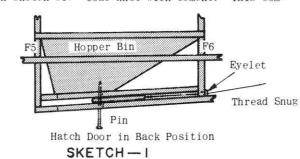
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NUT PLATES



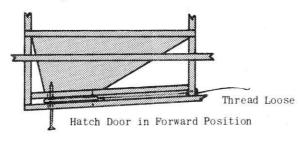
AUTOMATIC LEAFLET DROPPING

Automatic leaflet dropping in flight operates on rubber powered models only. Installation is simple and action is positive, if instructions are followed carefully. Make hole and cement eyelets in bottom of bulkhead F6, against left side center keel. Insert thread from rear of hatch door back until pin is against rear of opening. tie thread to rear hook while hook is in ve rtical position as shown above. Thread must be snug when hatch door is in this position as shown in sketch #1. Coat knot with cement. This com-

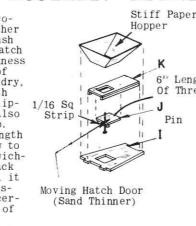


Cut Hopper from stiff paper, using pattern pro-Fold on dotted lines and cement to at glue flap. Cement a length of $1/16~{\rm sq}$ flush with both sides of K as shown. Sand moving hatch door J smooth and slightly thinner than thickness of 1/16 sq strips on K. Cement 1/4" length of 1/16 sq across door, 1/16" from front. When dr insert pin thru center of strip as shown, with head on bottom. Cement securely in place, clip-ping off top of pin so that 1/4" is above & also Strip below door. Pin acts as handle and door stop. Make pin hole 1/8" from rear then tie a 6" length of thread thru hole. Cement in place & allow to dry. Cement slide assembly together by sandwiching J between K and I. J must move up and back freely and easily; if not, sand thinner until it does. When dry, hopper and slide unit are installed as described in Fuselage Step 3. Be certain hopper slide is also cemented to bottom of

pletes mechanism. To operate Wind rubber motor. This will pull rear hook forward to a horizontal position, loosening thread. Turn model over and pour confetti or small squares of paper into hopper Loose thread now permits moving the hatch door forward, closing off hopper as shown in Sketch #2. Model is now released, and towards end of flight when motor unwinds, rear hook pulls back into vertical position. This tightens the line, pulling hatch door open, permitting leaf-

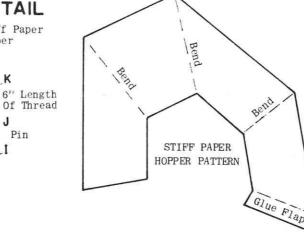


SKETCH-2 HOPPER ASSEMBLY DETAIL



BB

DD



ANSALDO S.V.A.5 SPECIFICATIONS AND COLOR SCHEME

TOP VIEW Section A SIDE VIEW

RUDDER YOKE Bend from 1/32 Wire

PLYWOOD RADIO DOOR

Test models used, and drawing shows, Citizen-Ship

MDL Receiver, SE2 Escapement, used with SPX Transmitter. This equipment and other material necessary is not provided in kit. Radio is installed

after lower wing is cemented in place as described in Final Assembly. Access to R/C equipment is thru 1/16 plywood (not provided) door made using

full size drawing above. Door fits between outer ribs W. Cut out center rib WA back to WT6, and fuselage keel above it, as well as 1/16 sq spars.

Cement 1/8 x 3/16 x 1-1/4 hardwood strip, across

front of WT6, recessed 1/16, to act as door stop.

Cement cloth tape to front end, half over door, for

hinge. Rear of door is held with small wood screw into hardwood strip. Cut rudder apart at location

shown by dotted lines. Cement back in place with

cloth hinges. Bend wire yoke from 1/32 wire, install on rudder with 2/56 nut & bolt. Trim bulk-

head F4 so that escapement fits. Cut escapement

cement to front of bulkhead F5 as shown. Cut a

base from 1/16 plywood and mount escapement, then

R.C. WINDING HOOK DOOR Cut out stringer above side keel between F7 and F8 and inset 1/16 balsa flush. Cut out section to shape of part A (see sketch) and cement it to a piece of 1/16 balsa cut to shape of section B, grain running crosswise, to form door. Bend half of hook shown from 1/32 wire and push straight end thru door. Bend hook in other end and cement securely to door in position shown. Place loop of rubber between escapement and inner door

Wing Span - 31 Ft. 0 In. - 26 Ft. 8 In - 9 Ft. 8 In Height Maximum Speed - 134 M.P.F (at 6,500 Feet) Ceiling - 22,000 Ft.

Fuel Capacity - 75 Gallons Engine - S.P.A. 220 HP Armament - Two Vickers Machine Guns on Fuselage COLOR SCHEME: See box lid for authentic color scheme, decals for

which are provided in kit Color schemes varied with individual squadron and pilot, also with the use of this versatile and best aircraft designed and built in Italy.

RADIO CONTROL INSTALLATION

Citizenship SE2 Escapement MDL Receiver

3/32 slot in rear of fuselage for torque rod. Using a length of 1/16 wire at least 16" long, insert thru hole, then bend "U" in front of wire according to R/C manufacturer's instructions and as shown above. Pull back and engage U in escape ment. Bend rear at right angle as shown, to engage in yoke. Cut off wire 3/4" above yoke. Raising and lowering yoke will increase or decrease the amount of rudder movement. Wire all radio equipment together in accordance with R/C manufacturer's instructions. Batteries are stored between F2 and F3. After they have been soldered, line compartment with foam rubber, then insert batteries. Wrap receiver with foam rubber and place in fuselage in same compartment behind bat teries. Close radio mount door and secure with screw. Bend small wire hook for antenna attachment and cement to front of rudder. Bring antenna out of cockpit and fasten to hook with rub-ber band as shown. When model has been completely finished, it must balance as shown on side

view. If necessary, add weight but DO NOT ATTEMPT TO FLY UNTIL BALANCE HAS BEEN ACHIEVED. Check wings and tail for warps; if any have deeloped, remove with steam method as described in Covering Instructions. Wait for calm weather for test flights. Field test R/C equipment before flying, as described in manufacturer's instructions. Start engine and THROTTLE DOWN TO LOW SPEED, then launch model with nose pointed slightly down at a point 50 or 60 feet in front of you and release at approximate flying speed. Model should fly in a straight line and either maintain or slightly lose altitude. If model turns to either side, rudder or engine may be off set to opposite side to achieve a straight flight, which is how it should glide and fly. If model glides well but stalls under power, point front of engine down (down thrust) by placing shim under top of fuel tank. Increase engine RPM as adjustments are made, checking R/C controls before each flight. GOOD LUCK AND GOOD FLYING!!

Rudder Yoke

Top

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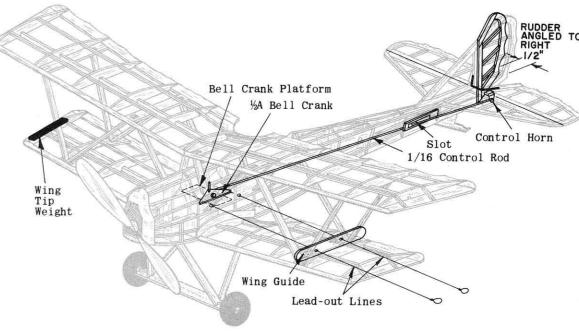
1/8 Holes Φ

PLYWOOD

ESCAPEMENT MOUNT

1/16 Wire

Torque Rod



Rubber Band

R/C Winding Hook Door

Antenna Wire

Escapement Mount

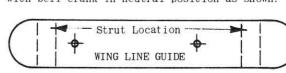
Batteries

Escapement Rubber

CONTROL LINE INSTALLATION

Materials required are not provided in kit. Make bell crank platform from 1/16 plywood using full size plan above. Securely cement across L6's against front of F3. Fill in area from F9 to F10 between L6 and stringer below it in same manner. Cut 1/8 slot in rear for control rod as shown. Cut two 14" lengths of lead-out lines and fasten them to bell crank. Push rod is 1/16 wire at least 13" long. a right angle bend at one end. Place in fus-elage, insert in bell crank, and mount assembly to plywood platform as described in instructions that come with bell crank. Cut stabilizer in half thru wide main spar as indicated by dotted lines. Round edges & install control horn at shape eleva-Tape elevators in neutral position (in line with stabilizer, neither up or down). Make with bell crank in neutral position as shown.

location shown on drawing, then join together with cloth hinges shown. Bend "U" shape ele tor joiner from wire. Make hole for joiner in rudder - then cement spurs to both elevators in position shown. Elevators now move as one uni Cement stabilizer horizontally in place against right angle bend at rear end of control rod at precisely the location of hole in elevator horn,



Trim off excess and insert into horn. Solder washer on end to prevent rod from coming off. Controls are now in neutral position and must work freely and easily. Cut rudder from fin on dotted lines shown on full size drawing. Cement rudder back on fin with rear of rudder turned at angle 1/2" towards outside of circle flown as shown. Cement vertically to top of stabili zer and L2 and against rear of fuselage. Assemble wings to fuselage as described in Final Assembly Detail. Make wing guide from 3/32 balsa, drilling holes indicated. Cement securely to bottom wing against struts as shown. Reinforce holes for lines in fuselage and wing guide with washers or eyelets. Thread lines through holes in wing guide and tie loops in end of lines at least 2" past wing tip. Lines must be of equal length when elevator is in neutral position. Control system must operate freely and easily. CAUTION: Model must balance (or slightly nose down) at point shown on side view. If necessary, add weight. Use regular %A Control Lines and handle when flying your Royal Italian Air Force Long Range Reconaissance and Propaganda Leaflet Dropper. GOOD LUCK!!!



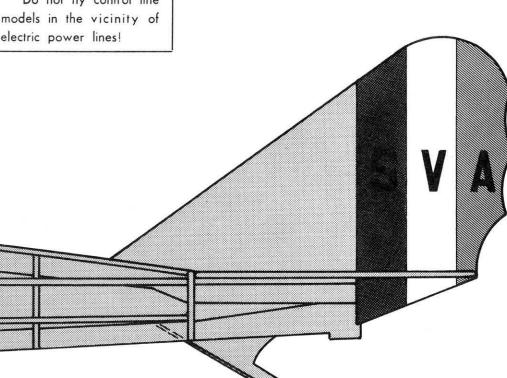
Use cloth tape for hinges. Cement only on top and bot tom, alternating hinges as shown above. Keep cement out of hinged area between



PLYWOOD

BELL CRANK





ANSALDO S.V. A.5



FLIGHT INSTRUCTIONS

The mainstay of the Italian Air Force until the end of the first World War

was this long range scout-fighter. The Ansaldo S.V.A.5 was also used for propaganda purposes. Our model DROPS LEAFLETS just like its real-life counterpart did, automatically in flight.

When model has been completed, it must balance at point shown on side view. DO NOT ATTEMPT TO FLY MODEL UNTIL BALANCE HAS BEEN ACHIEVED, add weight f necessary. Check wing and tail. If warps have developed, remove using steam method described in Silkspan Step. Model is now ready. Pick a calm day for test flying. On rubber powered models, wind propeller clockwise approximately 100 turns and launch into any prevailing wind slightly nose down at a point on the ground approximately 50 feet ahead of you. If model noses up and then falls off and stalls, (AFTER MODEL WAS BALANCED) then bend If model veers too much to one side, bend rud-

Apply sparingly AND KEEP OFF KNOT OR IT WILL COME UN-DONE! Use winder which you can make by tightening hook into hand drill. To store winds in motor, stretch rubber out three to five times original Feeling rubber from time to time to be certain it does not get so taut that it breaks. T56 brown rubber at your favorite hobby shop. gine powered free flight models are tested and

flights and competition, it is recommended that the loops of rubber be lubricated with model lubricant (Available at most Hobby Shops) or Castor Oil. length, then proceed to wind, moving slowly back to reaching the nose, motor should be completely wound. When replacing rubber motor, purchase contest grade

and therefore more turns in rubber motor. For lon-

elevators down slightly using hot breath in same manner as steam. If model dives, bend elevators o opposite side. Take-offs require more power

WING SPAN 19" PHILA. PA. USA

flown in same basic manner as above and is described in Flight Instructions at end of Radio Control Installation Note. GOOD LUCK AND GOOD FLYING!!!

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