

CHANCE VOUGHT VE-7, VE-9, UO-1-ARMY, NAVY TYPES.

VOUGHT VE-7

ENGINE INSTALLATION: WRIGHT-MARTIN HISPANO-SUIZA MODEL 3, 150 H.P. WATER-COOLED ENGINE. PROPELLER: LIBERTY, 2-BLADE, 6-1/2" DIAMETER OF LAMINATED WALNUT PITCH 5-5/8".

ENGINE EXHAUST MANIFOLD: TUBULAR WELDED SHEET SUPPORTED ON FORGED BRACKETS.

ENGINE STARTING: PILOT'S COCKPIT PROVIDED WITH BOOSTER MAGNETO AND LAMPHEIMER FUEL PUMP. ENGINE WAS HAND CRANKED.

ENGINE CONTROLS: EACH COCKPIT PROVIDED WITH THROTTLE, SWAN, AND FUEL MIXTURE LEVERS ON LEFT SIDE.

ENGINE RADIATOR: HONEYCOMB TYPE, 5 1/2 GALLONS WATER SYSTEM CAPACITY. DISTRIBUTOR TEMPERATURE INDICATOR. SHUTTERS MANUALLY CONTROLLABLE.

FUEL SYSTEM: TWO FUEL TANKS, MAIN UNDER REAR SEAT, AUXILIARY UNDER CONTROL BETWEEN ENGINE AND INSTRUMENT PANEL. FUEL CAPACITY 32 GALLONS. FUEL PUMPED TO CARBURETOR BY AN ENGINE-DRIVEN FUEL PUMP AND AIR PUMP FOR STARTING. PILOT'S COCKPIT FUEL SHUT-OFF VALVES IN EACH COCKPIT.

FLIGHT CONTROLS: DUAL JOYSTICKS AND RUDDER BARS IN EACH COCKPIT. CONTROLS ASSEMBLED AS A UNIT AND MANUALLY REMOVABLE.

INSTRUMENTS: CONSIST OF ALTITUDE, AIRSPEED INDICATOR, CLOCK, TACHOMETER, FUEL PRESSURE GAUGE, OIL PRESSURE GAUGE, INTERTEMPERATURE GAUGE, ETC.

DESIGN NOTES VE-7

- VARIOUS MARKS AND TYPES OF LAMINATED PROPELLERS WERE USED WITH VARIATIONS IN PITCH.
- INTERPLANE STRUTS OF CONSTANT OR INCREASING STRENGTH CROSS SECTION WERE USED.
- ENGINE FLYWHEEL CONTROLS ARE CABLE ACTUATED. ALL CABLES ARE DOUBLE FLEXIBLE TYPE.

THE AMERICAN VERSION OF THE HISPANO-SUIZA ENGINE WAS MANUFACTURED UNDER PORTUGAL LICENSE BY THE SIMPLEX AUTOMOBILE COMPANY. THIS COMPANY HAS LATER ASSUMED BY THE BRUNSWICK, S.A., THE PARENT COMPANY OF THE PRESENT CURTISS-WRIGHT CORPORATION.

VOUGHT VE-7

FUSELAGE: ENGINE COULDS ARE PRESSED SHEET ALUMINUM. INSTRUMENT CONTROLS AND TAIL SKID FRAME HAS SPRUCE LOWER. RECTANGULAR CROSS SECTION. ENGINE SECTION IS DEMOUNTABLE AS A UNIT. ENGINE COULDS LIGHT BLUE ENAMEL, PAINTED GRAY ENAMEL. FUSELAGE TRUSS RAISED TOP AND BOTTOM.

SEATING: EACH COCKPIT UPOLSTERED WITH IMITATION LEATHER. PLYWOOD SEATS. LEATHER COCKPIT COUINING.

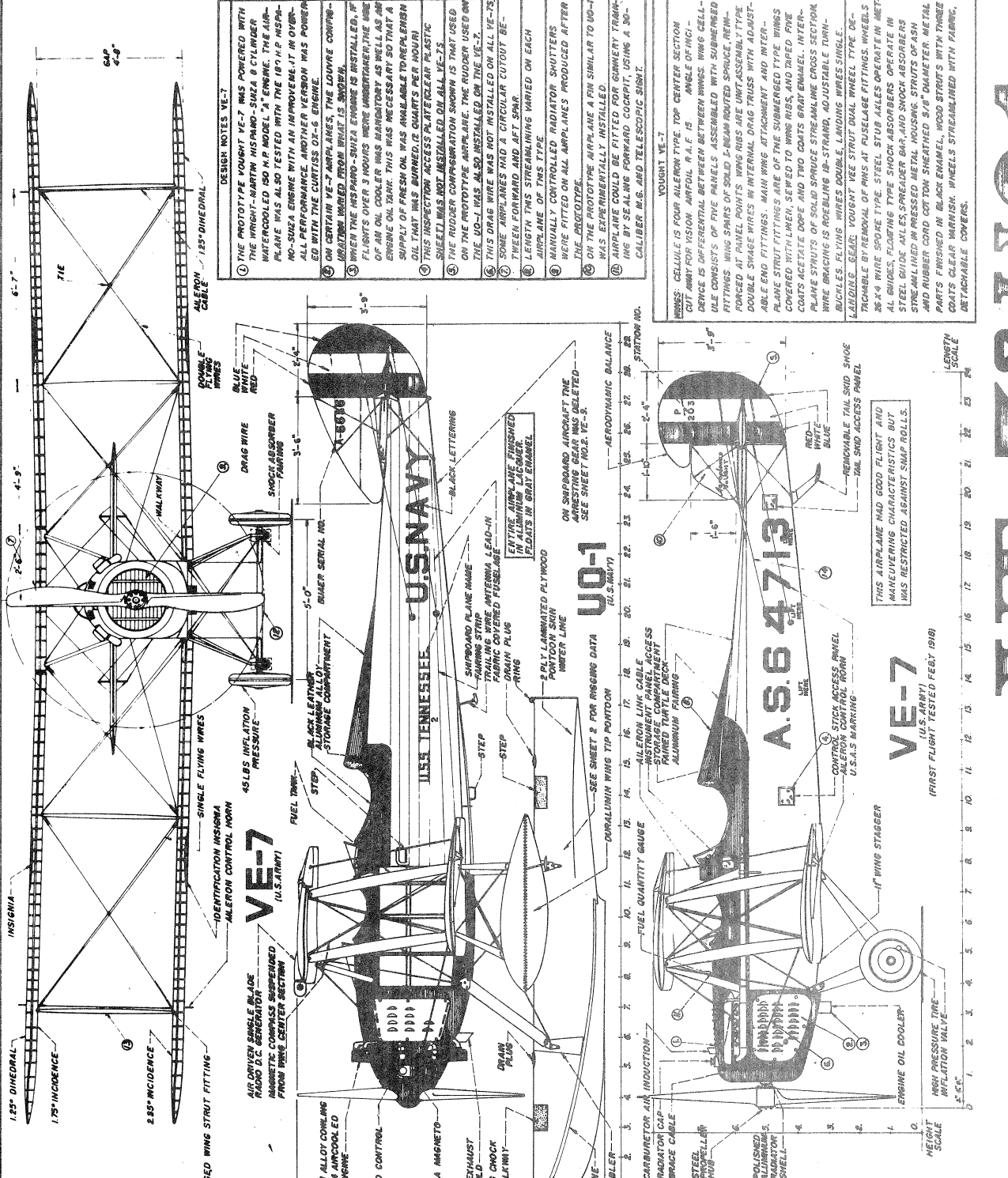
WINDSHIELD: CLEAR REINFORCED PLASTIC SHEET.

EMERGENCY: FIXED DOUBLE CAMBERED HORIZONTAL STABILIZER. ELEVATORS DUAL CONNECTED. FIXED VERTICAL STABILIZER. AERODYNAMICALLY BALANCED INBOARD. ALL FRAMES FILLED OVER TUBULAR STEEL AND ROOTED SPRUCE SPARS. STRUCTURE INTERNALLY BRACED WITH SHAGED CABLES AND ADJUSTABLE STEEL FITTINGS. ENTIRE EMPERPAGE COVERED WITH APPROVED COTTON FABRIC, FINISHED TO MATCH FUSELAGE COVERING.

TAIL SKID: PATENTED VOUGHT DESIGN, FLOATING TYPE, SEMI-UNIVERSAL AND SELF-ALIGNING IN ACTION. FITTED WITH RUBBER SHOCK ABSORBERS AND RENEWABLE METAL SHOE.

FACTOR OF SAFETY: UNIFORM FACTOR OF SAFETY OF 9 PLUS AT HIGH INCIDENCE CONDITION IN STATIC TESTS.

WEIGHT (GROSS): 3,000 POUNDS INCLUDING 500 POUNDS USEFUL LOAD AND 70 POUNDS ENGINE COOLING WATER.



CHANCE VOUGHT VE-7 & UO-1

(DRAWN FOR MODEL AIRPLANE NEWS BY WILLIS L. NEE) (SHEET NO. 1)