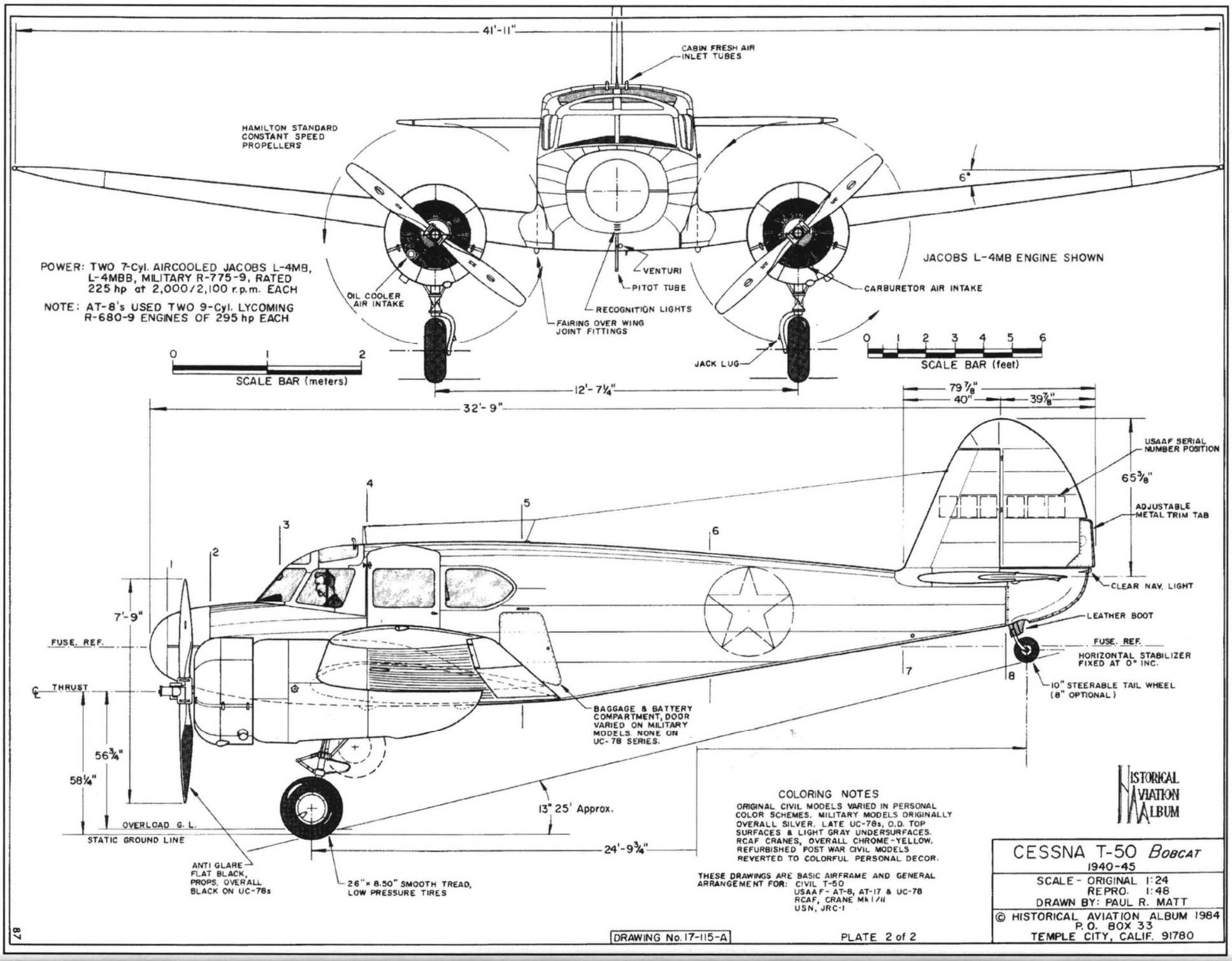
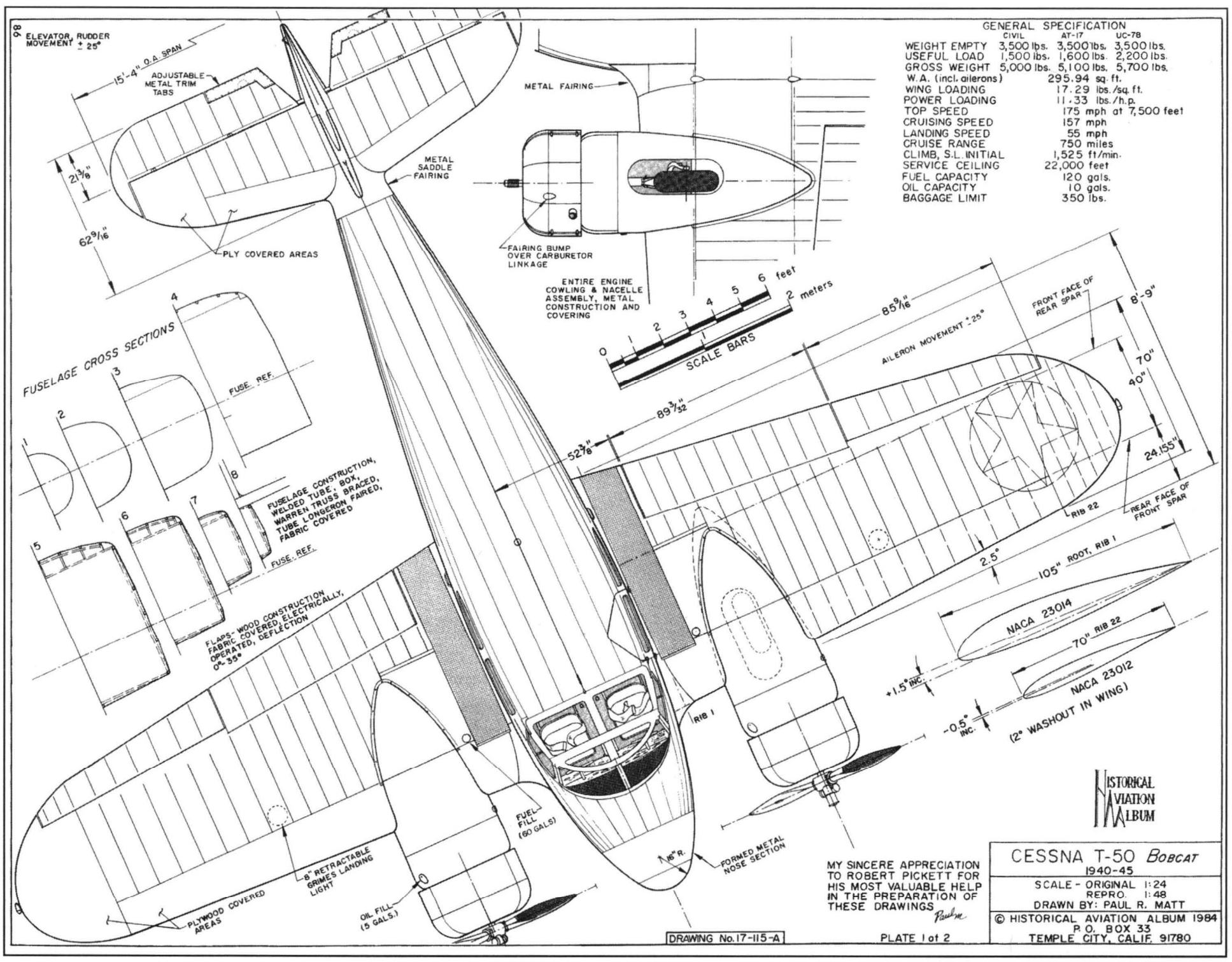

41'-11"
CABIN FRESH AIR INLET TUBES
HAMILTON STANDARD CONSTANT SPEED PROPELLERS
6°
POWER: TWO 7-Cyl. AIRCOOLED JACOBS L-4MB, L-4MBB, MILITARY R-775-9, RATED 225 hp at 2,000/2,100 r.p.m. EACH
NOTE: AT-8's USED TWO 9-Cyl. LYCOMING R-680-9 ENGINES OF 295 hp EACH
JACOBS L-4MB ENGINE SHOWN
OIL COOLER AIR INTAKE
VENTURI
PITOT TUBE
RECOGNITION LIGHTS
FAIRING OVER WING JOINT FITTINGS
CARBURETOR AIR INTAKE
JACK LUG
SCALE BAR (meters)
SCALE BAR (feet)
12'-7¼"
79⅞"
40"
39⅞"
32'-9"
USAAF SERIAL NUMBER POSITION
65⅜"
ADJUSTABLE METAL TRIM TAB
CLEAR NAV. LIGHT
LEATHER BOOT
FUSE. REF.
HORIZONTAL STABILIZER FIXED AT 0° INC.
10" STEERABLE TAIL WHEEL (8" OPTIONAL)
7'-9"
THRUST
56¾"
58¼"
OVERLOAD G. L.
STATIC GROUND LINE
13° 25' Approx.
24'-9¾"
BAGGAGE & BATTERY COMPARTMENT, DOOR VARIED ON MILITARY MODELS. NONE ON UC-78 SERIES.
ANTI GLARE FLAT BLACK, PROPS, OVERALL BLACK ON UC-78s
26"×8.50" SMOOTH TREAD, LOW PRESSURE TIRES
COLORING NOTES
ORIGINAL CIVIL MODELS VARIED IN PERSONAL COLOR SCHEMES. MILITARY MODELS ORIGINALLY OVERALL SILVER. LATE UC-78s, O.D. TOP SURFACES & LIGHT GRAY UNDERSURFACES. RCAF CRANES, OVERALL CHROME-YELLOW. REFURBISHED POST WAR CIVIL MODELS REVERTED TO COLORFUL PERSONAL DECOR.
THESE DRAWINGS ARE BASIC AIRFRAME AND GENERAL ARRANGEMENT FOR: CIVIL T-50
USAAF - AT-8, AT-17 & UC-78
RCAF, CRANE Mk I/II
USN, JRC-1
HISTORICAL AVIATION ALBUM
CESSNA T-50 BOBCAT
1940-45
SCALE - ORIGINAL 1:24
REPRO. 1:48
DRAWN BY: PAUL R. MATT
© HISTORICAL AVIATION ALBUM 1984
P.O. BOX 33
TEMPLE CITY, CALIF. 91780
87
DRAWING No. 17-115-A
PLATE 2 of 2


86
ELEVATOR, RUDDER MOVEMENT ± 25°
15'-4" O.A. SPAN
ADJUSTABLE METAL TRIM TABS
21⅜"
62⁹/₁₆"
PLY COVERED AREAS
METAL SADDLE FAIRING
METAL FAIRING
FAIRING BUMP OVER CARBURETOR LINKAGE
ENTIRE ENGINE COWLING & NACELLE ASSEMBLY, METAL CONSTRUCTION AND COVERING
SCALE BARS
FUSELAGE CROSS SECTIONS
FUSE. REF.
FUSELAGE CONSTRUCTION, WELDED TUBE, BOX, WARREN TRUSS BRACED, TUBE LONGERON FAIRED, FABRIC COVERED
FLAPS - WOOD CONSTRUCTION FABRIC COVERED, ELECTRICALLY, OPERATED, DEFLECTION 0°-35°
GENERAL SPECIFICATION
CIVIL AT-17 UC-78
WEIGHT EMPTY 3,500 lbs. 3,500 lbs. 3,500 lbs.
USEFUL LOAD 1,500 lbs. 1,600 lbs. 2,200 lbs.
GROSS WEIGHT 5,000 lbs. 5,100 lbs. 5,700 lbs.
W.A. (incl. ailerons) 295.94 sq. ft.
WING LOADING 17.29 lbs./sq. ft.
POWER LOADING 11.33 lbs./h.p.
TOP SPEED 175 mph at 7,500 feet
CRUISING SPEED 157 mph
LANDING SPEED 55 mph
CRUISE RANGE 750 miles
CLIMB, S.L. INITIAL 1,525 ft/min.
SERVICE CEILING 22,000 feet
FUEL CAPACITY 120 gals.
OIL CAPACITY 10 gals.
BAGGAGE LIMIT 350 lbs.
85⁹/₁₆"
AILERON MOVEMENT ± 25°
FRONT FACE OF REAR SPAR
8'-9"
70"
40"
24.155"
89³/₃₂"
52⅜"
RIB 22
REAR FACE OF FRONT SPAR
2.5°
105" ROOT, RIB 1
NACA 23014
70" RIB 22
NACA 23012
(2° WASHOUT IN WING)
+1.5° INC.
-0.5° INC.
RIB 1
FUEL FILL (60 GALS)
OIL FILL (5 GALS.)
8" RETRACTABLE GRIMES LANDING LIGHT
PLYWOOD COVERED AREAS
16" R.
FORMED METAL NOSE SECTION
MY SINCERE APPRECIATION TO ROBERT PICKETT FOR HIS MOST VALUABLE HELP IN THE PREPARATION OF THESE DRAWINGS
Paul R. Matt
HISTORICAL AVIATION ALBUM
CESSNA T-50 BOBCAT
1940-45
SCALE - ORIGINAL 1:24
REPRO. 1:48
DRAWN BY: PAUL R. MATT
© HISTORICAL AVIATION ALBUM 1984
P.O. BOX 33
TEMPLE CITY, CALIF. 91780
DRAWING No. 17-115-A
PLATE 1 of 2