

BOWEN

VOLUME 1

*The Standard*

N101DB



AIRCRAFT LOG

SKYBOLT LOG

*Cummul Pilot Cert # 1521854*

AIRCRAFT RECORD — GENERAL INFORMATION

MANUFACTURER D. H. BOWEN JR MODEL STEEN SKYBOLT SERIAL # 101 DB

REGISTRATION NUMBER N101 DB DATE MFG. July 7, 1994 (cert)

ENGINE(S) CURRENTLY INSTALLED.

MFG LYCOMING MODEL AE10540-D4A5 SERIAL L22572-48A

MFG \_\_\_\_\_ MODEL \_\_\_\_\_ SERIAL \_\_\_\_\_

PROPELLER(S) CURRENTLY INSTALLED.

MFG \_\_\_\_\_ MODEL \_\_\_\_\_

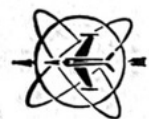
HUB MODEL \_\_\_\_\_ SERIAL \_\_\_\_\_ SERIAL \_\_\_\_\_

BLADE MODEL \_\_\_\_\_ SERIAL \_\_\_\_\_ SERIAL \_\_\_\_\_ SERIAL \_\_\_\_\_

BLADE MODEL \_\_\_\_\_ SERIAL \_\_\_\_\_ SERIAL \_\_\_\_\_ SERIAL \_\_\_\_\_

*P.O. BOX 2106  
Augusta, GA  
30903*

The Standard



AIRCRAFT LOG

DATE 19 <u>92</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
July	1			Receive Airframe Components - Clean & organize
				Set up shop - Repair damage to upper
				wing aileron recesses - remove & cut &
				prime plates for aft spar flying
				wire attach points - Prime I Struts
				sand and varnish upper wing with
				application of T-88 epoxy glue as
				necessary to repair and fill any
				voids. Prime all metal fittings
				on upper wing (after cleaning, fill &
				sand voids & varnish entire wing
July	30			Clean & prime drag & anti-drag wires upper wing

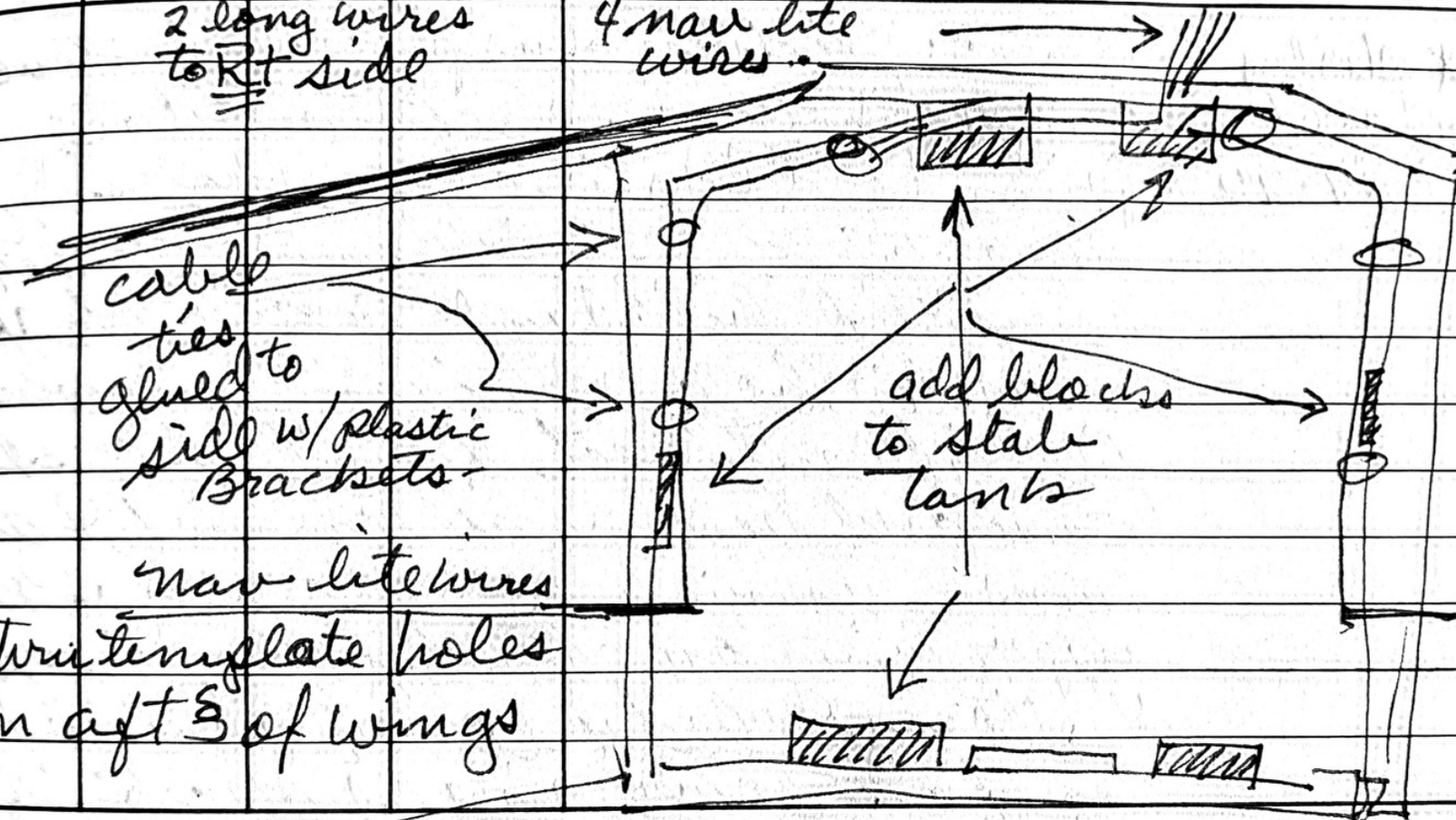
through



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Aug 1, 1992				Complete & sand repairs to upper wing
through				aileron recesses - clean & prime parts
Aug. 9, 1992				of fuselage - continued sand/varnish <sup>upper wing</sup>
Aug 10, 1992				prepare & clean center section for instal
				of wing tanks. Now lite wire holes <sup>Cleaned &amp; varnished</sup>
Aug 12				Prep & clean center section - align
				and drill & sand holes for filler necks
				& gas line & vent tube in top & bottom
				of Cent / Sect structural Box. Cut & glue
				add'l blocks front & rear & sides of
				C/Sect. to stabilize tanks - Now. light wire
Aug 13				Install wing tanks & compl. instal of Now. lite wire



# Upper wing C/sect.

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				<p>2 long wires to <u>Rt</u> side</p> <p>4 new lite wires</p> <p>cable ties glued to side w/ plastic Brackets</p> <p>new lite wires thru template holes in aft 3 of wings</p> <p>add blocks to stabil tanks</p> <p>Center Sect. diagram upper wing</p> <p>wing tanks affixed to top &amp; bottom of Box w/ Goop Silicane (marine)</p> 

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Aug	13	* photos nd good 8-27-92		Center Section Inspected by Steve Gay & Photographed this date Prior to Closure (See Photos)* All entries to date. <del>At</del> Bowen's <sup>comm. Pilot</sup> 1521854
Aug	15			Completed build up & Repair of aft wing tip bow section of upper wing fill in Cent / Sect. & handle recess sand and remove all varnish & glue runs - varnish as necessary. Place upper wing on fuselage for trip fit & storage. Clean lower wings / glue top of left lower wing as needed. Remove Pilot / Static lines / Repair #1 nose rib

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Aug 17				Remove fwd plate front spar wing attach point upper wing to achieve correct alignment Remove Top wing & try fit to perfection - wing tip to tail cone measurements OK
	* Sand @ Tanks Drain & vent holes in 1/8 ply.			
	* Slot cut just aft of wing attach point to be closed & sand			* need air vent hole 3/16" just aft of Nav lite entry thru rib into tank Box
				* check all drain holes under side of upper wing



DATE

1992

RECORDING

TACH  
TIME

Aug 19

Aug.  $23\frac{3}{4}$ , 1992 - Clean  
 4 ailerons; Sand & wire  
 Brush as nec. remove all  
 dirt & traces of surf corr.  
 Mask all metal surf's.  
 Repair all wood defects  
 w/ filler & T-88 glue  
 Check all joints & apply  
 T-88 glue to all recesses  
 & voids. Clean & check  
 trailing edges - glue trail

Aug 20

edges & reset nails w/ glue  
 etc - Spray all metal  
 surfaces (ferrous) w/  
 Randolph epoxy & alum.  
 with Zinc Chromate.

Aug 24, check all glue  
 joints sand & remove  
 all glue run & drop  
 clean w/ min. spirits &  
 varnish (polyurethane spar)

DATE	RECO.
19 <u>92</u>	TAC
	TIME

Aug 19

Lower wings

Turtle-decks - hole saw & jig saw  
cut away excess plywood -

Aug 20

Lower wings

Turtle decks

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19 92				
8-15	Inspect			4 Clean R & L Lower wings w/ high pressure air & min. Spirits & remove all dust etc. - remove & clean pitot tube bracket. Repair nose rib left lower wing.
8-19	Clean &			Sand L & R lower wings - Masked metal surfaces/apply zinc Chromate to trail edge - add T-88 glue trail edges to trail of ribs etc apply T-88 to voids & recesses
8-20	Twiddle Decks			works - add holes for lightening of T Decks Hob saw etc remove excess wood - re glue TD fill with fibre glass as needed glue all joints



DATE 1974	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Aug 26				apply Chem T-88 to turtle deck - fabricate & glue Aileron braces - sand fill from aileron - inspection & slamming for landing lights - Kit won't work.
Aug 27				Adjust & fit Turtle deck - remove Hdw & hinges from Rt lower wing masking etc for appl of epoxy primer to all metal spcs - Remove & adjust <del>flanging</del> wire ferrule attach plates - Blast clean & Paint Pitot & Landing wire attach plates & ferrule (alum plates) fit & adjust ailerons

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				to lower wings - sand and prepare
				lower wings for varnishing
				apply glass to Top wing handle
				recess & turtle deck joints -
aug 29				Mtg at Tom Hardin - Steve Bay inspect
				aileron recess & adjustments - Plan
				& order materials for Tanks Mt
				Bushings & for eng Mt. Bushing
				etc - Obtain mat. for Tail Brace
				Tabs & Plan fly wire Bracket
				for aft upper wing(2) -

DATE 1977	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Aug 30				work on aileron recesses & fitting ailerons - Mask Lower Right Wing Metal.
Aug 31				Paint Metal Spes & drag wires & Review form door recess turtle decks - clean sand & zinc chromate proper ribs of T Decks - Zinc Chr. inside skin re-cut door & fill voids in 13/16 plywood - Review plans -
Sept 2				Paint & varnish & sand turtle decks sand ext alum of T.D. - Sand & Varnish lower wings c/s safety of Clevis to root end drag wires lower wings OK



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TOTAL  
TIME IN  
SERVICE

TODAYS  
FLIGHT

RECORDING  
TACH  
TIME

DATE  
19—

General Aircraft finish (varnish) of  
all aluminum. Try lot OK 25-1948  
with adequate clearance for fuel  
bolts. Finishing slots & slots  
to form tanking for 2nd Mount  
flaying were finished for R. Spar  
of upper wing & Brulinger for 1st Mt.  
12 oz boiled linseed oil applied  
to each open chamber -  
1/8 oz each chamber -  
See note of Nov 28, 1942 - 2 oz  
linseed oil each chamber -

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Sept 16-17				Meeting w/ Tech Adv. EAA - Al Patton - Discuss project & welding - Mount Lower wings Cut & Sand headrest & Luggage compartment door try fit I Struts - re-align ldg wires through fittings to accept ldg wires - try fit 400 ldg wires - level airframe & dihedral & LoF incidence - photos etc - fit install lower left wing tip (fiberglass) with T-88 & filler - re-glue lower left trailing edge. review plans & builders guide Sept 18 Mtg w/ EAA Tech Adv Al Patton finish lower wing tip - Stab wings & I Struts at try fit FINAL LEVEL

Photos  
with DHB

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Sept 19		grind flying wire attach tabs on fuselage to accept		measure, fit & cut flying wire & access holes in lower wing leading edges trim lower left wing tip to accept ldg edge - try fit all above ✓✓✓ OK.
Sept 21		red ends both sides		Correct holes in ldg edges - !!! for flying wire / ldg wire access etc - installation of lower right wing ldg edge - using silicone GE Clear & nails Clean shop & check level of a/c / <del>spring</del>
Sept 22				trim & install lower right fiberglass wingtips - trim & install lower left leading edge w/ silicone and small nails
Sept 24				



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Sept	26/27/28			fabricating fitting & finishing formers and stringers for right side of
Sept	26-	28		fuselage - 9/28 conf w/ EAA Tech Adviser Al Patton approved stringers etc & plan for welding
Sept 29				Prepare formers & doublers for R Side
to Oct 11				fuselage fairings glued them together
fitting & finishing formers & rip stringers for				fuselage fairings - finish & drill
meeting w				tabs for Vert & Horiz Stab Braces
Gary Waugh				glue & varnish as needed -
Obtain weld				General Conf w/ EAA Tech Adviser Al Patton
equipment				order all material for push rods & slats

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Oct 12				nose ribs center sections fabricated & installed Left upper wing ldy edge installed with silicone & nail finish cent. Sect nose ribs & support braces sand & final glue - insta of shop drill press - Varnish nose ribs
Oct 13				
Oct 14				
Oct 15				
Oct 16				
Oct 18				Install silicone and nail upper right wing leading edge per silverbolt Builders Guide - practice welding - try installation of right fuselage side fairings / formers and stringers -

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19 <u>92</u>				
Oct 20	* bottom nos			Finish nail nose ribs TOP of upper R wing
Right up wing	ribs need			leading edge - Set up sander & drill
Nov 2	#7 nails (2 x per)			Press - Clean shop - drill vent holes left aileron
	* Suggest remove			Paint beam & install aft spar flying
	5/16 bolt thru			wire bracket - Install All flying &
	right side spar			ldg wires - Brackets Sanded & secured
	ream & varnish			* Fly/ldg wires all fit per #263 Skybolt
	inside hole -			Nov 3 / cut finish & assemble
	reinstall fly/wire			pushrods - 2 ea torque tube to
	brack + rod end			aileron idler & 1 ea aileron idler
	before covering			to bell cranks - install bearings
				in 3/4 tube & on rod ends



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<u>Nov 5</u>				Plot - Cut & fit holes in lower wing fuselage rib for conduct of torque tube to aileron push rods (both sides) varnish same after sanding & fitting etc -
<u>to Nov 24</u>				Al Patton welded aileron push rod tubes installed & checked fit OK - Holes in fuselage rib OK 1/16 shim nec in rt wing to provide 1/8 inch clearance for compression member plot holes & fit firewall plywood blanks - Set up drill press

[illegible]

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Nov 28	20x oil front of ea long- eron - No heater			al Patton cont. to fabricate & weld Slave Struts - Tommy Hardin came to weld engine mount studs to close longeron openings - Shape cut plywood firewall blanks - ream all holes 7/16 Clean Shop & complete fits of Fire- wall blanks to eng mount Bolts ream plywood to fit
Nov 29	(al Patton by serv times to fit Slave Struts)			
Dec 5	(try fit of elev control Horn assy to elev push rod etc OK -)			al Patton fit Slave Struts need add 1/2 in in 1/2" tubes (lower part) Slave Strut DH B - Dan Silliman fit horiz Slave & Elev. to Airframe - Cut & Grind tube etc - Meas-
Dec 3				Fuselage Tilted nose down to allow linseed to flow forward to welds



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19__																			
measurement for tail Brace wires included Try Fit of tail Brace Tabs 58° 34° 32° all OK for final instal				wire for stabilizer tail braces w/ results as follows: <table><tr><td></td><td>Left</td><td>Right</td></tr><tr><td>TOP: front</td><td>41 1/2</td><td>41 3/4</td></tr><tr><td>Rear</td><td>40 1/2</td><td>40 3/4</td></tr><tr><td>Bottom: front</td><td>36 3/4</td><td>36 -</td></tr><tr><td>Rear</td><td>37 3/4</td><td>37 1/4</td></tr></table>		Left	Right	TOP: front	41 1/2	41 3/4	Rear	40 1/2	40 3/4	Bottom: front	36 3/4	36 -	Rear	37 3/4	37 1/4
	Left	Right																	
TOP: front	41 1/2	41 3/4																	
Rear	40 1/2	40 3/4																	
Bottom: front	36 3/4	36 -																	
Rear	37 3/4	37 1/4																	
Dec 3 / make template for fly wire passage hole Gussets to be formed from .020 2024 per drawings etc rivet to ldg edge nail to spar				All measurements are pin to pin - hole to hole Level fuselage & level right side panel Stringers & adjust fit of stringers - D.H.B. fabricate & drill holes in flying wire passage hole gussets per template measurements. 4 ea completed w/ guide holes drilled in leading edge for rivets															

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Dec 6	This compar- ison of exist- ing Tail brack wire measurements to Skylark Bldrs guide specs. is recorded - all are pin to pin [ hole to hole ]. $\frac{3}{16}$ " holes etc -			<u>wire position</u>	(L)	<u>Exist</u>	(R)	<u>Spec.</u>	
				TOP front	$41\frac{1}{2}$	$\frac{1}{4}$	$41\frac{3}{4}$	$\frac{1}{2}$	$41\frac{1}{4}$ "
				TOP Rear	$40\frac{1}{2}$	$\frac{3}{4}$	$40\frac{3}{4}$	$\frac{1}{2}$	$41\frac{1}{4}$
				Bottom Front	$36\frac{3}{4}$	✓	36	$\frac{3}{4}$	$36\frac{3}{4}$
				Bottom Rear	$37\frac{3}{4}$	$\frac{1}{2}$	$37\frac{1}{4}$	7	$38\frac{1}{4}$
				* These are viewed to be within acceptable limits to be taken into account when ordering the wires.					

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To Dec 14				cont. work & welding on tabs for instal. of fuselage side Stringers & Slave Struts See visits by Al Patton - Final Drilling to lighten rudder & Brase Pedals -
To Dec 17				Al Patton Finished Slave Struts - welded final tab for fuselage side Stringers DAB cont'd work on fuselage side Stringers & formers -
To Dec 19				cont work on Stringers & formers rigging of Slave Struts etc Jahs delivered Shrinker & Lights
12-24				cut out Baggage Compartment Door etc



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12-22/23	Laura -			Cont'd work on fuselage Side Stringers glued in place on formers & varnish also fabrication & instal of Baggage
12-24	Dan, Laura, Al Pat. Jim Jatho Help			compartment door - work on door Struts grind oil. Hinge fittings etc
12-26				Sand Stringers / remove fly / leg wires remove grind & Brush Oil. Slave Strut Brackets to final fit / Remove ailerons etc. Remove all pushrods for ailerons
12-27				Sanded & Varnished Stringers
28				& Set Tank Bushings for welding

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Jan 1 1993 to Jan 23/1993				Fuselage Delivered to Max Bradley SSI Sand & Epoxy <sup>(2)</sup> Varnish upper wing all Areas to be touched by Stits process add filler as nec to Wingtips & other areas leading edge etc Add Inter rib bracing tape fabricate & install flying wire Pin access covers & add filler Install grounded studs for instal. of Nav lights - double grinded Dry fit 5/8 AD tube compression member between upper wing attachment

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Jan 30 31	1993			Continued prep & finish upper wing for cover - add 2 coats Poly brush to lead edge & C/S Bottom side -
Feb 1 5	Ready to Cover			Final Poly Brush Coat on upper wing Bob Rhodes & DHB glued R side upper wing & treated in acc w/ Stits process manual - + Shrink
2/6				Bob Rhodes & DHB glued left side upper wing & Mid Cent Section Seam
2/7				Final Shrink 250° / 350° all fabric on upper wing and one coat Poly Brush - Bob Rhodes Aaron Clements



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1993				
2/8				PolyBush on under side of upper wing by Bob Rhodes -
2/9				<del>DBB</del> Bob apply Rib reinforcement tape & punch holes in lower <del>side</del> surface of upper wing - apply one coat of epoxy varnish to both lower wings - DBB
2/10	Bob Rhodes begins Rib stitching upper wing -			Punch holes top of upper wing add coat epoxy varnish to lower side lower wings - add Bob to inside wingtip bows of lower wing to accept inter-rib bracing tape DBB - PM add filler to ldg. edge <sup>lower side</sup> of lower wings

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19 93				
DHB	4 Aaron	Clements		applied interrib bracing Tape & prep lower wings for cover - Mask- ing tape & fill as necessary so - rough areas will not show thru fabric.
2-14-93				
2-15-93	DHB	Bob Rhodes	Everett Parks	Cont'd rib stitching of upper wing - apply finish tapes on ribs of top side upper wing - Cont'd prep of lower wings - placement of inspect covers over ldg wire etc - Collect flying & ldg wire access covers fab & fit - also fab & fit Alum plates around aileron actuator rod openings of lower wings - 2 coats Poly Brush upper wing - prep lower wings