

4/23/2006, Sunday

Check Nav lights and fix

Check Strobe lights, power supply makes the right noise, lights not flushing

Connecting left wing fuel

Right wing fuel line from the fuselage is $\frac{1}{4}$ " too short

Connect aileron push rods in the wings

Fit lower cowl, top cowl seems to fit too

Total time: 3 hours (1109 hrs)

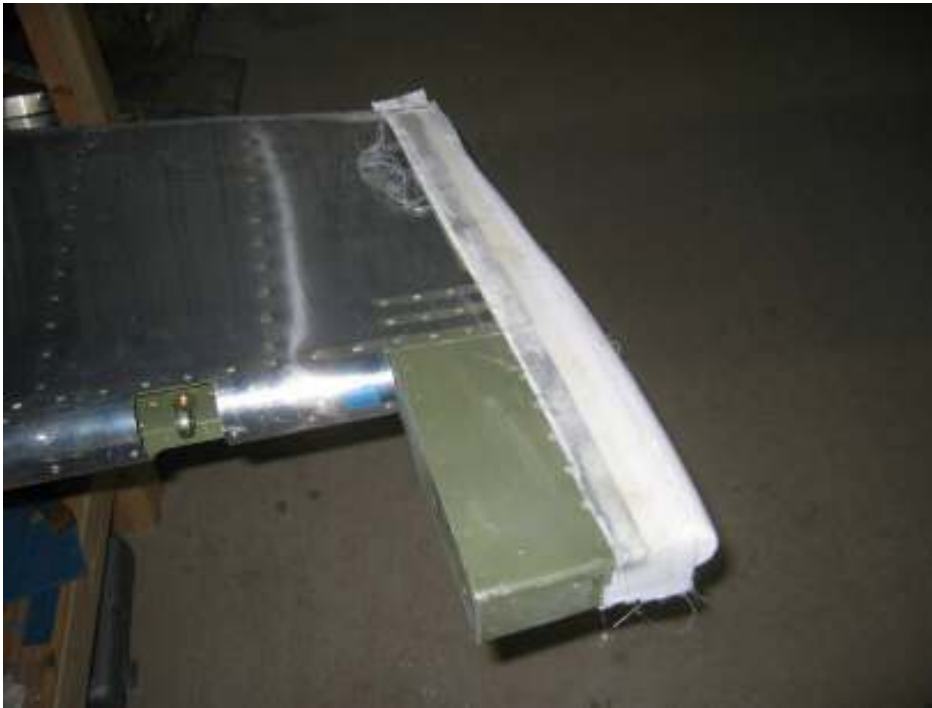
4/24/2006, Monday



Fly C172

Diagnose strobe lights, fixed (crimp)

All electric system working

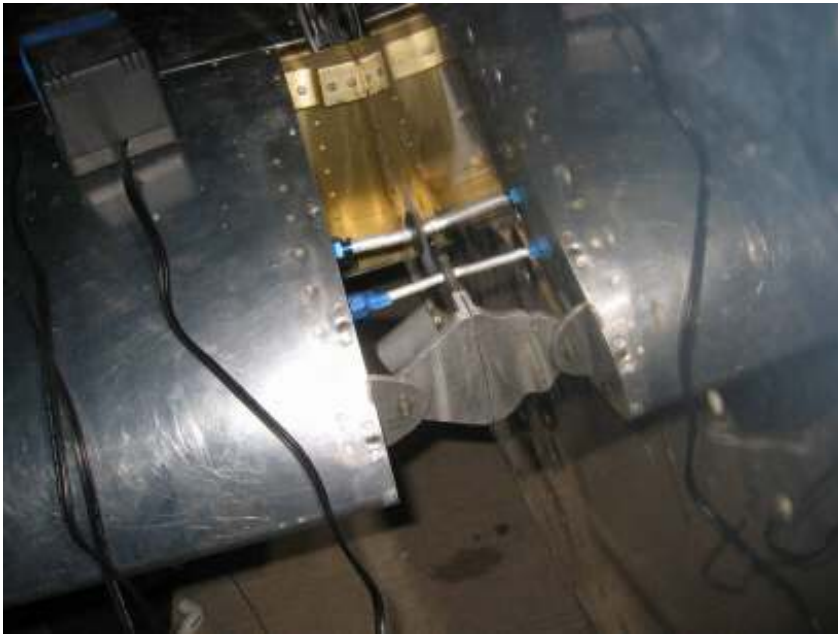


Glass gap on rudder
Connect ailerons to the stick
Total time: 3 hours (1112 hrs)

4/25/2006, Tuesday



Safety upper oil dip stick tube



Connects right fuel line



Fill micro balloon



Fit wing root gap strips
Rivet nutplates for front access holes
Install COM 2 antenna cable and connectors
Fix GPS antenna cable
Misc wiring adjustments
Total time: 7 hours (1119 hrs)

4/26/2006, Wednesday

Check wing tip positions and verify they are okay
Adjust flap push rod length



Install oil quick drain



Fabricate angle and back plate to mount prime valve to the fire wall
 Rivet prime valve mounting angle
 Plumb prime valve, safety valve to the angle



Fabricate angle to fasten left prime line under engine
 RTV around baffle air seal
 Re-drill rear canopy block
 Fit canopy, try to shrink metal
 Total time: 7 hours (1126 hrs)

4/29/2006, Friday
 Quick oil drain
 Misc
 Total time: 1 hour (1127 hrs)

5/5/2006, Friday
 Drill pitot and LRI hose passing holes on arm rests

Misc
Rearrange wires
Total time: 2 hours (1129 hrs)

5/9/2006, Tuesday
Firewall side ground tab installation
Pressure sensor ground wire
Paint diluted epoxy to fiber glass parts
Total time; 2 hours (1131 hrs)

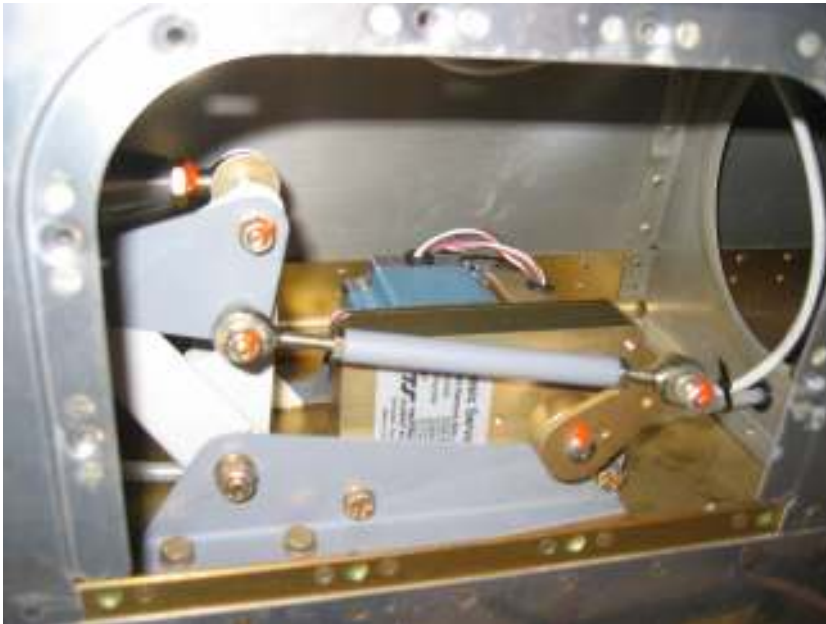
5/10/2006, Wednesday
Shrinking canopy skirt
Squeeze two missing rivets from left wing.
Remove right wing
Total time: 2 hours (1133 hrs)

5/11/2006, Thursday
Route LRI lines
Connect fuel gage lines
Route NAV antenna cable from right wing
Remove right fuel line and remake new one
Total time: 4 hours (1137 hrs)

5/12/2006, Friday to 5/25/2006, Thursday
Route pitot and LRI lines to instrument panel
Connect LRI
Connect airspeed pitot line
Connect NAV and marker beacon antennas
Permanently mount left wing
Rivet elevators and rudder tips
Glass elevators and rudder tips
Sand elevators and rudder tip gaps
Connect fuel lines and vent lines from wings to fuselage
Connect fuel sender wire
Build firewall side group tabs
Safety oil drain nut and quick oil drain
Adel clamp top magneto cables to engine mount
Torque magneto cable to baffle clamp
Shrink canopy skirt
Mount and take off wings several times
Torque aileron and flap bolts
Install left wing aileron pushrod boot
Total time: 44 hrs (1281 hrs)

5/26/2006, Friday
Install autopilot, Finish pitch servo, roll servo wire buddle done, need to pull through conduit.
Fix problem with panel instrument mounting holes.
Total time: 7 hours (1288 hrs)

5/27/2006, Saturday



Pull roll servo wire
Partially mounting right wing (four bolts)



Total time: 7 hours (1295 hrs)

5/28/2006, Sunday



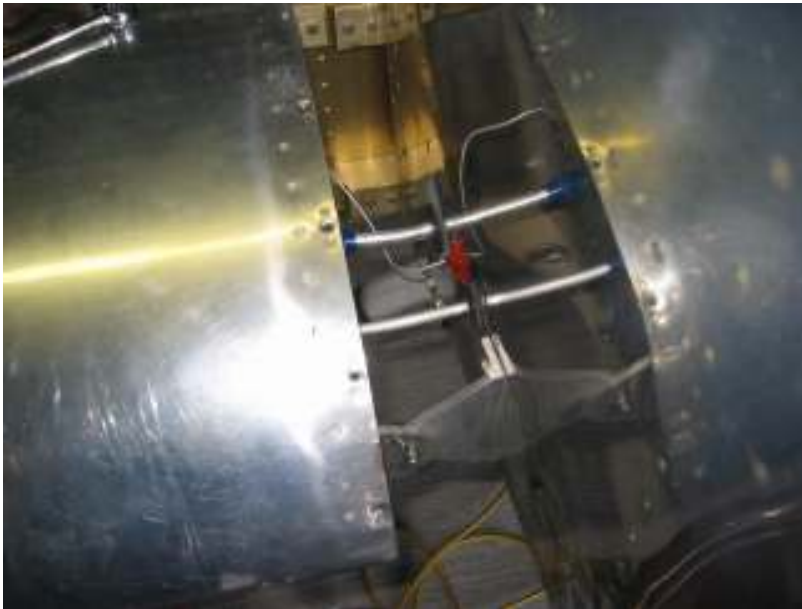
Pitch servo one wire broke, fixed
Cotter pin right flap center bolts
Cotter pin wing rear mount bolt
Pound in right lower wing bolts (almost done)
Add slight amount of filler to tip gap glasses



Drill subpanel holes and install snap bushings for P and S lines and LRI lines
Total time: 3 hours (1298 hrs)

5/29/2006, Monday

Pound in two right lower wing-bolts



Fill fuel attachment bracket slot and install bolt and safety it.

Sand tip gaps

Sand cowls

Total time: 4 hours (1302 hrs)

5/30/2006, Tuesday

Wing bolts try again

Built angle, rivet to column. Use Adel clamp to fix strobe wires next to the elevator ball-crank

Organize wires

Total time: 4 hours (1306 hrs)

5/31/2006, Wednesday

Try wing bolts again (bolt on two more), still have two to take care of.



Relocate lower mag wire mounts

Sand, prime and paint steps

Drill bolt holes for rear canopy block channels
Total time: 4 hours (1310 hrs)

6/1/2006, Thursday

Finish mounting all wing bolts
Adjust taxi and landing lights (taxi 50 yd, landing straight ahead)
Clean up glass surfaces
Total time: 3 hours (1313 hrs)

6/2/2006, Friday

Fabric parts and rivet upper cowl hinge pin docking slots
Solder and install PTT on pilot stick grip
Install instrument screws for AP (also enlarge instrument hole slightly)
Total time: 2 hours (1315 hrs)

6/14/2006, Wednesday



Connecting pitot and static lines for Alt, AS, and AP, waiting for ANRH computer to finish the connection.

Adjust ailerons and flaps angle (both side checked)
Sent airplane registration
Total time: 2 hours (1317 hrs)

6/15/2006, Thursday

Torque aileron and flap bolts
Torque VS and HS bolts
Total time: 3 hours (1320 hrs)

6/16/2006, Friday

Fly to Jeffersonville, IN deliver David's computer
Install and torque rudder and elevator (almost done)



Install wing tips (left wing tip missing one nutplate)
Total time: 4 hours (1324 hrs)

6/17/2006, Saturday



Install trim tab and reinstall left elevator
Total time: 3 hours (1327 hrs)

7/18/2006, Sunday

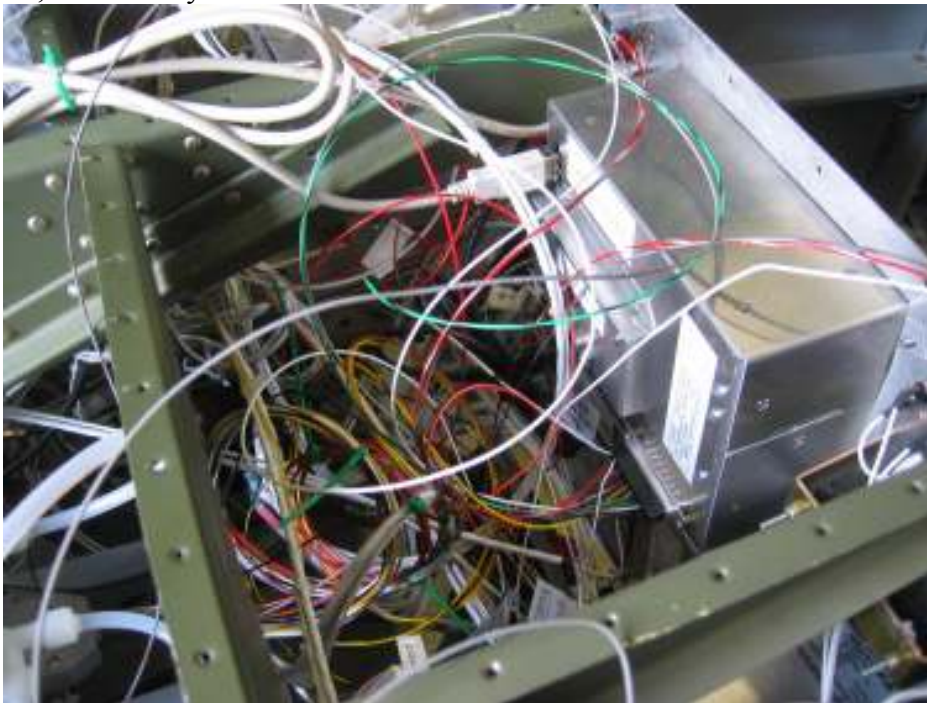


Install tail nav and strobe lights
Install bolts for elevator hone and pushrod.
Total time: 4 hours (1331 hrs)

6/20/2006, Tuesday

Pick up EIS and EFIS
Drill holes for AHRS computer, EIS and EFIS
Install Cab temp sensor
Install fuel pressure and oil pressure transducers
Install flash memory cards in EFISs
Total time: 6 hours (1337 hrs)

6/21/2006, Wednesday



Install EFIS



Install oil temp, CHT, EGT probes



Install flight computer
Total time: 7 hours (1344 hrs)

6/22/2006, Thursday
Pull wires to the back for magnetometer
Wiring EFIS
Total time: 5 hours (1349 hrs)

6/23/2006, Friday
Install nutplates for EIS and EFIS
Continue wiring
Total time: 7 hours (1356 hrs)

6/24/2006, Saturday
Wiring and debugging
Total time: 6 hours (1362 hrs)

6/25/2006, Sunday



Rearrange wires
Install connectors
Testing EFIS interface with GPS, Autopilot, SL30, and Transponder
Communication passed
Install current sensor
Total time: 4 hours (1366 hrs)

6/26/2006, Monday





Drill holes for EIS wires
Connect fuel probes to EIS
Build weather connector
Organize wires
Total time: 4 hours (1370 hrs)

6/27/2006, Tuesday



Connect all engine monitor sensors, except fuel flow and manifold
Test instruments
Total time: 7 hours (1377 hrs)

6/28/2006, Wednesday

Planning for fuel flow sensor

Install bolts for control column to aileron push rods



Double loop for amp sensor
Torque propeller to 43 ft-lb, safetying bolts



Install spinner
Set EIS and EFIS parameters
Paint front deck top
Total time: 5 hours (1351 hrs)

6/29/2006, Thursday



Fasten wires for magnetometer and drill holes for it.



Tidy up wires



Connect alternative air door



Partially install fuel flow sensor
Rivet panel support braces to the front deck top skin
Total time: 7 hours (1358 hrs)

6/30/2006, Friday



Fabricate bracket and install fuel flow sensor
Re-wire EIS audio output to audio panel
Bleed brake fluid again
Mount magnetometer with brass screw, fix cable to side cabin
Total time: 6 hours (1362 hrs)

7/2/2006, Sunday

Rivet most of the front top skin
Total time: 2 hours (1364 hrs)

7/3/2006, Monday

Install panels

Screw in instrument panel

Drill holes to fasten lines on the side of cabin



Prepare and paint front top skin and turtle deck

Total time: 4 hours (1368 hrs)

7/4/2006, Tuesday

Rivet bottom row of top skin (several rivets can not be buckled)





Install windshield and bar on roll bar
Install compass and windshield antenna



Total time: 6 hours (1376 hrs)

7/5/2006, Wednesday



Fabricate clips and rivet in to support windshield
Masking windshield and top skin prepare for laying fiberglass
Install right wing walk
Touch up painting propeller
Finish top skin using blind rivets
Seal firewall
Rivet firewall to top and side skins
Install right exhaust
Adjust canopy
Total time: 7 hours (1383 hrs)

7/6/2006, Thursday

Install left exhaust
Fix misc problems on firewall
Laying fiber glass at windshield
Misc others
Total time: 5 hours (1388 hrs)

7/7/2006, Friday



Laying fiber glass at the top
Sand some fiber glass at the base of the windshield
Add Adel clamps for mag cables



Test fit cowl
Total time: 4 hours (1392 hrs)



Fly with Larry Wiley on his RV4