



The Standard

AIRCRAFT LOG

A52-53-2

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Build History of Berkut 540 -- N567JS

The original kit was purchased by John R. Sapp in August of 1992 from Experimental Aviation, Inc. The kit was delivered to Mr. Sapp's residence in Cedar Rapids, IA in April of 1993. The building process was started by Mr. Sapp shortly after delivery and continued for several years. Mr. Sapp completed all the major parts of the airplane including building and installing the following:

- Fuselage and fuselage bulkheads
- Main landing gear installation/attachment
- Main wing spar
- Nose gear installation/attachment
- Main spar and wing strakes, including main fuel tanks and strake baggage areas
- Wings and attachment of wings to the main spar
- Manufacture and installation of canopies (2)
- Canard wing
- Construction of the control surfaces, including elevator and ailerons
- Wing tips and rudders were cut out and covered but not attached to the ends of the wings
- Fuel tanks
- Plumbed the fuel and hydraulic systems.
- Built and installed the seats, braking system, ailerons and elevator control system

When Mr. Sapp received help with finishing the airplane building process from Randy Hartman. Mr. Hartman mainly worked on the following:

- Winglet attachment to the wings
- Installation and rigging of the rudders
- Installation and rigging of the ailerons
- Making and installing the instrument panel
- Installing all avionics, systems, sensors, and all wiring
- Surface preparation and priming
- Modifications to the top and bottom of the winglets
- Modifications to the cowling to convert from up-draft to down-draft engine cooling
- Making and installing an engine plenum
- Modifying and installing the throttle quadrants

When the airplane was completed in March of 2023, Mr. Sapp hired Mr. William Kyle, a DAR, to conduct the FAA certification inspection. Following successful completion of the DAR inspection, Mr. Sapp hired Elliot Sequin (Wasabi Test Flight) to do the first flight and initial flight testing to prove the engine cooling and major systems functions.

A set of pictures is available on SD card(s) to review the building process.

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cate Number of
specific entries.)

YEAR
2023
DATE 1/16

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

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ALTITUDE SCALE CORRECTION CARD		
Altitude	Tolerance +/- feet	Correction
-1,000.00	20	0
0.00	20	5
500.00	20	5
1,000.00	20	5
1,500.00	25	5
2,000.00	30	5
3,000.00	30	0
4,000.00	35	0
6,000.00	40	5
8,000.00	60	0
10,000.00	80	5
12,000.00	90	-5
14,000.00	100	-5
16,000.00	110	-5
18,000.00	120	-5
20,000.00	130	-5
22,000.00	140	
25,000.00	155	
30,000.00	180	
35,000.00	205	
40,000.00	230	
45,000.00	255	
50,000.00	280	

Test Tolerances		
Test	Tolerance	Results
Case Leak Test	+/- 100h	0
Hysteresis Test:		
First Test Point (50% of maximum altitude)	75	0
Second test point (40% of maximum altitude)	75	0
After effect test	30	10

Friction		
Altitude	Tolerance feet	Results
1000	+/- 70	
2000	70	
3000	70	
5000	70	
10000	80	
15000	90	
20000	100	
25000	120	
30000	140	
35000	160	
40000	180	
50000	250	

Pressure-Altitude Difference		
Pressure (inches of Hg)	Altitude difference (feet)	Results
28.1	-1727	
28.5	-1340	
29	-863	
29.5	-392	
29.92	0	
30.5	531	
30.9	893	
30.99	974	

PILOT	N567JS	1/18/2023
Garmin GSU-73		S/N: 1D0000577

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations: Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries).
03/17/2023				TOTAL TIME 0 I CERTIFY I HAVE INSPECTED THIS AIRCRAFT IN ACCORDANCE WITH THE SCOPE & DETAIL OF PART 43 SUBPART D AND FOUND IT IN A CONDITION FOR SAFE OPERATION [REDACTED] DATE: <u>3/17/2023</u> TOTAL TIME: <u>0</u> I FIND THAT THE AIRCRAFT MEETS THE REQUIREMENTS FOR THE CERTIFICATION REQUESTED AND HAVE ISSUED A SPECIAL AIRWORTHINESS CERTIFICATE FOR THE PURPOSE OF <u>EXPERIMENTAL</u> DATED: <u>17 MAR 2023</u> <u>AMATEUR BUILT</u> THE NEXT INSPECTION IS DUE: <u>MARCH 2024</u> [REDACTED] WILLIAM R. KYLE, [REDACTED]