



The Standard

AIRCRAFT LOG

ASA-SA-1

Aircraft Record General Information

Manufacturer Quad City Aircraft Corp Model CHALLENGER II
Serial CH 2-0905-2669 Registration Number N 850 RW
Date of Manufacture 2012

Engine(s) currently installed:

Manufacturer ROTAX Model 503 UL DCPI Serial M 647 B579
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer WARD DRIVE Model 2 BLADE X 60" DIA.
HUB Model N/A Serial N/A Serial _____
Blade Model WARD DRIVE Serial C 15114 Serial _____
Blade Model _____ Serial _____ Serial _____
Serial _____ Serial _____

[illegible]

[illegible]

Repair

YEAR: 2012 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. Facility. (See back pages for other specific entries.)
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I certify that I have built this aircraft for my own education and recreation, and I have inspected it fully. I am the manufacturer, and I consider it eligible for issuance of an Experimental Airworthiness Certificate for the purpose of operating amateur built aircraft under provisions of FAR 21.191(g).

Richard C. Wenzlick Owner/Builder

9/18/2012

I have inspected this aircraft I/AW Part 43, Appendix D and was found to be in a condition for flight.

Richard C. Wenzlick Owner/Builder

9/18/2012

YEAR: <u>2012</u>	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
DATE			

Description of Inspections, Tests, Repairs and Alterations

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

AUGUST 18, 2012

I have inspected this aircraft N850RW, S/N CH2-0905-2669 model WENZLICK Challenger II and have found it meets the requirements for the certificate requested and have issued a special Airworthiness Certificate **FAA Form 8130-7** this date.

Category **EXPERIMENTAL, PURPOSE TO OPERATE AMATEUR BUILT AIRCRAFT**. Operating limitations dated 08-18-2012 attached

Dale L. Gauger DARF-501214-CE

YEAR: 10/3 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.)
9/28	9 Hrs		9 Hrs	I HAVE Inspected this AIRCRAFT N850RW S/N CH2-0905-2664 I/AN PART 43 Appendix D AND WAS found to be in safe Condition for operation Pitch on prop Changed from 10° to 12° Engine Compression Cyl 1 110# Cyl 2 107# [REDACTED] Owner Builder REPAIRMAN CERT Pending

YEAR: 2019	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.)
DATE				
8/24	13.1	Ø	13.1	ELT Removed - Ameri King, ELT AK-45Ø fail test - Battery replaced, see AD 17-16-Ø no service is available for thrs. Will complete 27 HR of test within 20 NM, ELT not required see 91.207 (A) → See page to right for full info on removed ELT - [REDACTED]
9/3	14.0	Ø	14.00	Spark plugs Replaced, old fuel removed and replaced, Break - flored replaced and system flushed, Breaks held 6000 RPM, Fan belt checked, over all Inspection completed with no abnormal findings using Qual cote check sheets - [REDACTED] [REDACTED]

ian or Repair

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YEAR:

2019

DATE

8/24

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.)

AMERI-KING CORP.

MADE IN U.S.A.

California, U.S.A.

EMERGENCY LOCATOR TRANSMITTER

Model AK-450, ELT(AF)(AP)

FAA TSO-91 a approved

FCC ID: L79AK-450

RTCA DO-160c Environmental Categories

C1AC/XXXX S XXXX BXB

FREQ: 121.5 / 243.0 MHz

PREP: 50 mw for 50 hrs

Serial No.: **500310**

Mods:

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YEAR: 2019 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.)
9/3	14.0	14.0	14.0	Completed Run up and brake checks, confirmed airspeed with GPS. All is complete via Run-up and taxi runs - [REDACTED]
9/5	14.0	14.0	14.0	I have inspected this aircraft N850RW IAW Part 43 Appendix D and found to be in a Condition for safe flight operations. [REDACTED] NP [REDACTED] John Nichols

ols

QUAD CITY
Airc

Weight & Balance - Challenger II - Two Place

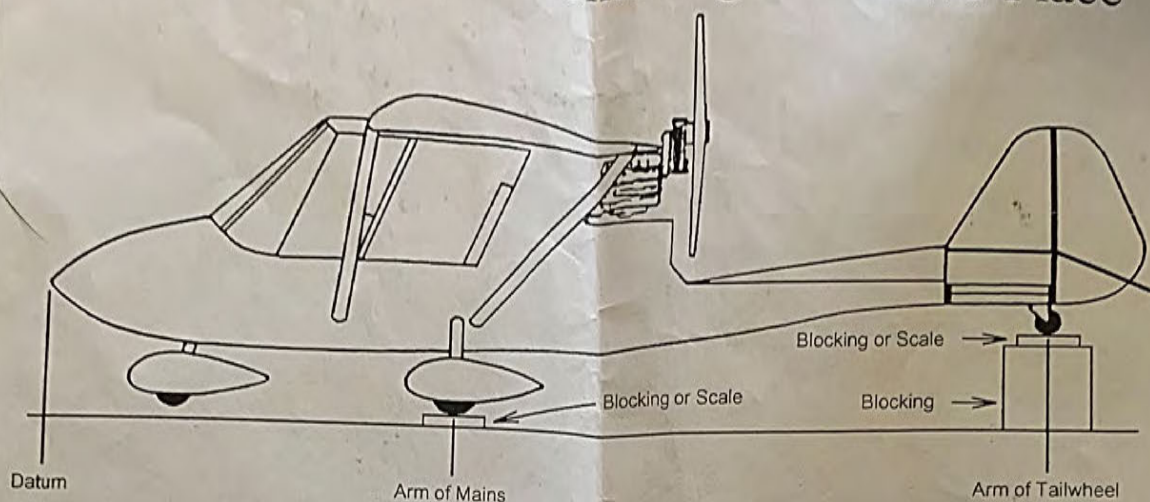


Chart A

Aircraft: N 850RW

	Weight		Arm		Moment
Left Wheel:	<u>226.2</u>	lbs.	x	<u>90</u>	" = <u>20394</u>
Right Wheel:	<u>215.4</u>	lbs.	x	<u>90</u>	" = <u>19386</u>
Tail Wheel:	<u>53.6</u>	lbs.	x	<u>216</u>	" = <u>11577</u>
Total Empty Weight:	<u>495.2</u>	lbs.		Total Moment (inch/lbs):	<u>51357</u>

$$\frac{\text{Total Moment (inch/lbs): } 51357}{\text{Total Empty Weight (lbs): } 495.2} = 103.7 \text{ Arm (Empty airplane)}$$

*Notes: Empty weight does not include useable fuel. Aircraft must be weighed in a level flying attitude. Scale should be placed above blocking for tail wheel, or the weight of the blocking deducted from tailwheel weight if blocking is above scale.

Chart B

	Weight		Arm		Moment
Empty Airplane:	<u>495.2</u>	lbs.	x	<u>103.7</u>	" = <u>51352</u>
Front Seat (Pilot):	<u>170</u>	lbs.	x	<u>50</u>	" = <u>8500</u>
Rear Seat:	<u>170</u>	lbs.	x	<u>77</u>	" = <u>13090</u>
Fuel in Gallons:	<u>10</u>	(x 6 = lbs.)			
or Fuel in Liters:		(x 1.585 = lbs.)			
Fuel in Weight:	<u>60</u>	lbs.	x	<u>103</u>	" = <u>6180</u>

Total Gross Weight: 895.2 lbs.

Total Moment 79122

$$\frac{\text{Total Moment } 79122}{\text{Total Weight } 895.2} = 88.39 \text{ C.G.}$$

Max. Allowable Gross Weight: 800 lbs.

Center of Balance Range, from: 80" to 90" from datum.