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SECTION 1 - GENERAL INFORMATION

PURCHASE AGREEMENT AND RELEASE

DENNEY AEROCRAFT COMPANY, INC., of Nampa, Idaho ("Seller") manufactures and sells a sport aircraft as home construction kits (hereinafter collectively referred to as the "Kitfox"). The Kitfox requires inspection and certification by the Federal Aviation Administration, hereinafter referred to as the FAA, under the provisions of the Federal Aviation Regulations, hereinafter referred to as the FAR's. The undersigned ("Purchaser"), intends to purchase one (1) Kitfox from Seller and understands and agrees to the following conditions and requirements:

Limited Warranty

Seller's sole obligation to Purchaser after the sale is to replace, without charge, any part or component of the Kitfox discovered to be defective within a period of one (1) year from the date of sale, provided that the Purchaser notifies Seller within the (10) days after discovering such defect. Purchaser accepts sole responsibility for the proper assembly, operation and regular maintenance of any Kitfox.

The liability of Seller to Purchaser resulting from the sale of any Kitfox, including liability for any latent defects found within the one year period, shall not exceed the total purchase price paid for the Kitfox by Purchaser. In no event shall Seller be liable for special, incidental or consequential damages incurred by Purchaser or any other person.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Aircraft Certification

Purchaser has read, investigated and thoroughly understands the aviation regulations applicable to his use of the Kitfox, understands the certification requirements and the interpretation of the regulations by the various authorities. The purchaser recognizes and agrees that many factors beyond the control of Seller affect the certification of the Kitfox, including:

- a. The final as-constructed quality and resultant airworthiness, which is directly and exclusively the result of the actions of the purchaser.
- b. Varying interpretation by the FAA of the FAR's for certification of homebuilt aircraft.

The Purchaser understands that the Seller does not represent that any Kitfox will qualify for certification in any particular country or otherwise comply with any regulations and that Seller accepts no responsibility whatsoever for such certification. The Purchaser accepts the sole responsibility for certification of any Kitfox purchased.

Kitfox Design Integrity

Purchaser understands that the overall design and construction of the Kitfox is based upon integral characteristics of airframe structure, critical engine and propeller characteristics, and critical aerodynamic and center of gravity characteristics.

Purchaser understands and agrees that the engine and propeller and other critical components used on any Kitfox must satisfy all the requirements specified in Seller's product manual instructions and the Purchaser agrees that the above characteristics are critical and integral to the design of the Kitfox. Purchaser agrees not to make any modification of any Kitfox and agrees not to use any parts, components, or accessories that are not authorized and approved by Seller.

Purchaser understands and agrees that the proper assembly of the Kitfox is critical to the safe operation and maintenance of the aircraft. Purchaser agrees to take great care in following the assembly instructions provided Purchaser by Seller and agrees to use such care in the initial assembly of any kit and when adding or substituting any parts or components subsequent to the initial assembly.

Safety-Related Improvements

Seller may from time to time notify Purchaser of technological improvements developed by Seller. In some instances, Seller may deem such improvements to be very important to the continued safe operation of the aircraft and may designate such as mandatory improvements. Purchaser agrees to promptly purchase and install all mandatory improvements designated by the Seller, and hereby agrees to indemnify and hold Seller harmless for any and all claims arising out of events which may have been avoided or the effects of which may have been reduced by the prompt implementation of mandatory improvements.

Indemnity and Release

Purchaser understands and agrees that many factors beyond the control of Seller affect the operational safety of the Kitfox including, but not limited to:

- a. The assembly of the Kitfox according to the instructions provided with the Kit;
- b. Performance by Purchaser or others of inspections, maintenance procedures and repairs of the finished Kitfox aircraft;
- c. Safe operation of the Kitfox by the Purchaser or others while on the ground and in flight.

Purchaser also understands and agrees that maintenance and/or repair of any Kitfox may involve the use of tools, equipment and construction methods which may present safety hazards which are beyond the control of Seller.

Purchaser hereby indemnifies and holds harmless Seller from any liability arising from the assembly, use, maintenance and operation of any Kitfox.

Proprietary Materials & Information

Purchaser understands and agrees that information proprietary to Seller, including Kitfox part features, design features and written documentation, is supplied with the Kitfox for the sole use of Purchaser. Purchaser understands and agrees that such proprietary information is a confidential trade secret of Seller and is supplied to Purchaser solely to enable Purchaser to purchase, construct and operate a Kitfox.

Purchaser agrees to prevent any of Seller's proprietary information from being diverted from its intended use. Purchaser specifically agrees:

a. Not to copy or permit others to copy any Kitfox product manuals or other documentation supplied to Purchaser;

b. Not to duplicate or permit others to duplicate any parts or assemblies supplied to Purchaser;

c. Not to trace, photograph or otherwise record dimensional information, or to permit others to trace, photograph or otherwise record dimensional information from parts or assemblies supplied Purchaser.

Address or Ownership Change

To ensure receipt of notices from Seller, Purchaser agrees to notify Seller in writing, within ten (10) days, after Purchaser changes his address from the address below or after any change in ownership of the Kitfox. If ownership changes, Purchaser's notice to Seller shall contain the name and address of the new owner.

THE LAWS OF THE STATE OF IDAHO SHALL BE USED IN CONSTRUING THIS AGREEMENT.

IMPORTANT NOTICE

This manual is not designed, nor can it serve as a substitute for adequate and competent flight instruction. It is not intended to be a guide of basic flight instruction, nor a training manual.

This manual should be read thoroughly and carefully by the owner and operator in order to become familiar with the operation of the aircraft. It is intended to serve only as a guide under most circumstances, but cannot take the place of good sound judgement during flight operations. Multiple emergencies, adverse weather, terrain, etc., may require deviation from the recommended procedures.

The owner and operator should be familiar with the Federal Aviation Regulations applicable to the operation and maintenance of an airplane, and FAR Part 91 General Operating and Flight Rules. Further, the airplane must be operated and maintained in accordance with FAA Airworthiness Directives which may be issued. Revisions, Addendums, or Service Bulletins issued by Denney Aerocraft Co. that are mandatory in nature, must be complied with.

The Federal Aviation Regulations place the responsibility for maintenance of this airplane on the owner and operator. All limits, servicing, and maintenance requirements contained in this manual are considered mandatory for continued safe airworthiness and to maintain the airplane in a condition equal to that of its original construction.

The builder/pilot is entirely responsible for manufacture, inspection, maintenance, test flight, and normal operation of the aircraft. Thorough and careful procedures must be carried out in all of these phases.

How well the plane is built, maintained and operated will determine how safely it performs. Thorough, careful construction, continued maintenance, and diligent practice during the early phases of flight familiarization are mandatory. Maximum performance and safe operation can only be achieved by a skilled pilot and good mechanic.

The information contained in this manual refers to the Kitfox Model IV aircraft built according to the appropriate Instruction Manuals. Any homebuilder modifications to the aircraft that deviate from the Instruction Manuals may alter the applicability of this manual to your airplane.

AIRCRAFT DATA SHEET

Serial Number

Engine Model

Engine Serial Number

Registration Number

Date Delivered

Date Completed

Builders Name

Date Approved for Flight Test

Approved By

Date Flight Test Completed

Notification of First Test Flight to Denney Aircraft Co.

The KITFOX is a two-place, folding-wing, amateur-built kitplane that offers economical super-STOL performance and can be towed home to store in the garage. The KITFOX is built under the Federal Aviation Regulation (FAR) part 21.191.(g) as amended by Advisory Circular #20-27C, April 1, 1983. The operator of this KITFOX, in the United States, should become familiar with those regulations and operate this aircraft according to those guidelines.

KITFOX owners in countries other than the U.S. should build and operate their KITFOX in accordance with the local civil aviation authority.

Denney Aircraft Company, the supplier of the KITFOX aircraft kit, maintains a list of current owners of KITFOXES, but it is the responsibility of the seller and new owner to notify Denney Aircraft Co. in the event of a sale. Every KITFOX owner is entitled to know about any changes, improvements, or potential problems with his aircraft.

Specifications

KITFOX Model IV

Engine

Rotax 582LC

Horsepower	65 @ 6800
Torque	65 ft lbs @ 5700 rpm 88.1 N-M @ 5700 rpm
Gross weight (lb.)/(kgs.)	1050/477.3

Model IV

Power Loading	16.2 lb/hp
Empty weight (lb.)/(kgs.)	440/200
Useful load (lb.)/(kgs.)	610/277.3
Wing span	32 ft 0 in/9.75 m
Wing area	130.5 ft ² /12.12 m ²
Wing Loading	9.20 lb-ft ² /3.7 kg-m ²
Chord length	42 in./1.07 m
Chord length (including flaperons)	51.5 in.
Aspect ratio	7.83
Length	17 ft. 8 in./5.34 m
Wings folded	21 ft. 1 in. 6.40 m
Width (wings folded)	7 ft. 10.5 in./2.39 m
Height	68.5 in./1.72 m
Tread width (mains)	4 ft. 9 in./1.45 m
Wheel base	152.2 in 3.86 m
(Mains to tailwheel)	
Tire size (main)	20 x 7.00 x 8 in.
Tailwheel diameter	6.5 in./.165 m
Fuel capacity	
(std. fuel tank)	9.75 gal./36.9 l.
(small wing tank ea.)	6.0 gal. 22.7 l.
(header tank)	1.5 gal./5.7 l.
(large wing tank ea.)	13 gal./49.2 l.
Cabin max. width (shoulder area)	41 in./1.04 m
Reduction unit (standard)	3:1 gear
Propeller (standard)	68 in./172.m
3-blade wood	
ground adjustable	
Propeller (optional)	

NOTE: Empty weight is based on basic aircraft kit.

Rotax 582LC

Stall speed

Solo, Power on (Full Flaps)	22 mph (40.2 km/h)
Solo, Power off (Full Flaps)	31 mph (45.1 km/h)
Dual, Power on (Full Flaps)	23 mph (46.7 km/h)
Dual, Power off (Full Flaps)	34 mph (54.7 km/h)
Cruise speed maximum	105 mph (169.0 km/h) dual
	105 mph (169.0 km/h) solo

Max speed V_{nc} (with flaperon

Mass Balance units installed) 125 mph (201.2 km/h)

Take off run-ft (solo/dual)-Full Flaps

85 ft/200 ft
25.9 m/45.7 m

Landing roll-ft (solo/dual)-Full Flaps

150 ft./250 ft.
(30.5 m/61.0 m)

Rate of climb (Sea Level, 59°F)

(solo) 650 lb 1300 fpm (6.60 m/sec)

(dual) 1000 lb 1100 fpm (5.58 m/sec)

Best rate of climb speed(mph)

55-65 mph (88-104 km/hr)

Best angle of climb speed

45 mph (72.4 km/hr)

Best glide speed (Solo)

50 mph (80.5 km/hr)

Maneuvering speed

80 mph (128.7 km/hr)

Service ceiling (estimated)

15,000 ft (4590 m) Dual

20,000 ft (6095 m) Solo

Fuel consumption

90 mph cruise 3.8 gph (14.4 lph)

100 mph cruise 4.2 gph (15.9 lph)

110 mph cruise

Range

@ 90 mph/(144 Km/hr)

*Standard fuel, 1.5 gal reserve 195 mi (313 km)

14.5 gal fuel, 1.5 gal reserve 343 mi (551 km)

27.5 gal fuel, 1.5 gal reserve 651 mi (1047 km)

35.75 gal fuel, 1.5 gal reserve 811 m (1304 km)

Range

*Standard fuel, 1.5 gal reserve

14.5 gal fuel, 1.5 gal reserve

27.5 gal fuel, 1.5 gal reserve

35.75 gal fuel, 1.5 gal reserve

NOTE: Performance data has been compiled from flight tests of factory prototype aircraft. Aircraft built by others may vary slightly and exhibit slightly different flight characteristics. These figures can be used as a general guide, but each builder should conduct his own flight test program to determine the exact performance of his own aircraft. Performance data are maximum figures obtained through the use of a ground adjustable propeller.

*Standard Fuel, 1.5 gal reserve:

582LC, 8.25 gal

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