FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

Form Approved
O.M.B. No. 2120-0018

U.S. Department of Transportation
Federal Aviation Administration

APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

INSTRUCTIONS - Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use attachment. For special flight permits complete Sections II, VI and VII as applicable.

I. AIRCRAFT DESIGNATION

1. REGISTRATION MARK	2. AIRCRAFT BUILDER'S NAME (Make)	3. AIRCRAFT MODEL DESIGNATION	4. YR. MFR.	FAA CODING
N678TW	AEROTRIKE	SAFARI	2001	059101AA 7
5. AIRCRAFT SERIAL NO.	**6. ENGINE BUILDER'S NAME (Make)**	**7. ENGINE MODEL DESIGNATION**		55566
TWAEROTRIKE2000	ROTAX	503 DCDI		
8. NUMBER OF ENGINES	**9. PROPELLER BUILDER'S NAME (Make)**	**10. PROPELLER MODEL DESIGNATION**	**11. AIRCRAFT IS (Check if applicable)**	
ONE	WARP DRIVE	3 BLADE COMPOSITE	IMPORT	

II. CERTIFICATION REQUESTED

APPLICATION IS HEREBY MADE FOR: (Check applicable items)

A. 1 — STANDARD AIRWORTHINESS CERTIFICATE (Indicate Category): NORMAL | UTILITY | ACROBATIC | TRANSPORT | COMMUTER | BALLOON | OTHER

B. X — SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)

- 7 — PRIMARY
- 9 — LIGHT-SPORT (Indicate Class): AIRPLANE | POWER-PARACHUTE | WEIGHT-SHIFT-CONTROL | GLIDER | LIGHTER THAN AIR
- 2 — LIMITED
- 5 — PROVISIONAL (Indicate Class): 1 CLASS I; 2 CLASS II
- 3 — RESTRICTED (Indicate operation(s) to be conducted): 1 AGRICULTURE AND PEST CONTROL; 2 AERIAL SURVEY; 3 AERIAL ADVERTISING; 4 FOREST (Wildlife Conservation); 5 PATROLLING; 6 WEATHER CONTROL; 0 OTHER (Specify)
- 4 X — EXPERIMENTAL (Indicate operation(s) to be conducted): 1 RESEARCH AND DEVELOPMENT; 2 AMATEUR BUILT; 3 EXHIBITION; 4 AIR RACING; 5 CREW TRAINING; 6 MARKET SURVEY; 0 TO SHOW COMPLIANCE WITH THE CFR; 7 OPERATING (Primary Category) KIT BUILT AIRCRAFT
- 8 X — OPERATING LIGHT-SPORT: 8A Existing Aircraft without an airworthiness certificate & do not meet § 103.1; 8B Operating Light-Sport Kit-Built; 8C Operating light-sport previously issued special light-sport category airworthiness certificate under § 21.190
- 8 — SPECIAL FLIGHT PERMIT (Indicate operation(s) to be conducted, then complete Section VI or VII as applicable on reverse side): 1 FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE, OR STORAGE; 2 EVACUATION FROM AREA OF IMPENDING DANGER; 3 OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT; 4 DELIVERING OR EXPORTING; 5 PRODUCTION FLIGHT TESTING; 6 CUSTOMER DEMONSTRATION FLIGHTS

C. 6 — MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited" as applicable)

III. OWNER'S CERTIFICATION

A. REGISTERED OWNER (As shown on certificate of aircraft registration) — IF DEALER, CHECK HERE →

NAME: THOMAS H. WARD
ADDRESS: [redacted] DUNNELLON FL 34433

B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)

- X — AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.): NA
- AIRWORTHINESS DIRECTIVES (Check if all applicable AD's are complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application): NA
- X — AIRCRAFT LISTING (Give page number(s)): NA
- SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated): NA

C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS

- CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR Section 91.417
- TOTAL AIRFRAME HOURS: 104
- 3 — EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed): 0.0

D. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 et seq. and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.

DATE OF APPLICATION	NAME AND TITLE (Print or type)	SIGNATURE
8-23-07	OWNER, THOMAS H. WARD	[redacted]

IV. INSPECTION AGENCY VERIFICATION

A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if 14 CFR part 21.183(d) applies.

- 2 — 14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)
- 3 — CERTIFICATED MECHANIC (Give Certificate No.)
- 6 — CERTIFICATED REPAIR STATION (Give Certificate No.)
- 5 — AIRCRAFT MANUFACTURER (Give name or firm)

DATE	TITLE	SIGNATURE

V. FAA REPRESENTATIVE CERTIFICATION

(Check ALL applicable block items A and B)

A. I find that the aircraft described in Section I or IV meets requirements for
- ✓ — THE CERTIFICATE REQUESTED
- 4 — AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE

B. Inspection for a special permit under Section VII was conducted by:
- FAA INSPECTOR
- CERTIFICATE HOLDER UNDER
- ✓ — FAA DESIGNEE
- 14 CFR part 65
- 14 CFR part 121 OR 135
- 14 CFR part 145

DATE	DISTRICT OFFICE	4 DESIGNEE'S SIGNATURE AND NO.	FAA INSPECTOR'S SIGNATURE
8-29-07	SO 15	[redacted]	

VI. PRODUCTION FLIGHT TESTING

A. MANUFACTURER

NAME	ADDRESS

B. PRODUCTION BASIS *(Check applicable item)*

- ☐ PRODUCTION CERTIFICATE *(Give production certificate number)* ⟶
- ☐ TYPE CERTIFICATE ONLY
- ☐ APPROVED PRODUCTION INSPECTION SYSTEM

C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS

DATE OF APPLICATION	NAME AND TITLE *(Print or Type)*	SIGNATURE

VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST

A. DESCRIPTION OF AIRCRAFT

REGISTERED OWNER	ADDRESS
BUILDER *(Make)*	MODEL
SERIAL NUMBER	REGISTRATION MARK

B. DESCRIPTION OF FLIGHT — CUSTOMER DEMONSTRATION FLIGHTS ☐ *(Check if applicable)*

FROM	TO	
VIA	DEPARTURE DATE	DURATION

C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT

☐ PILOT ☐ CO-PILOT ☐ FLIGHT ENGINEER ☐ OTHER *(Specify)*

D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:

E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION: *(Use attachment if necessary)*

F. CERTIFICATION – I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 et seq. and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.

DATE	NAME AND TITLE *(Print or Type)*	SIGNATURE

VIII. AIRWORTHINESS DOCUMENTATION (FAA/DESIGNEE use only)

✓ A. Operating Limitations and Markings in Compliance with 14 CFR Section 91.9, as applicable.	☐ G. Statement of Conformity, FAA Form 8130-9 *(Attach when required)*
✓ B. Current Operating Limitations Attached	☐ H. Foreign Airworthiness Certification for Import Aircraft *(Attach when required)*
✓ C. Data, Drawings, Photographs, etc. *(Attach when required)*	☐ I. Previous Airworthiness Certificate Issued in Accordance with 14 CFR Section _____ CAR _____ *(Original Attached)*
✓ D. Current Weight and Balance information Available in Aircraft	✓ J. Current Airworthiness Certificate Issued in Accordance with 14 CFR Section 21.19(b)(1) *(Copy Attached)*
☐ E. Major Repair and Alteration, FAA Form 337 *(Attach when required)*	☐ K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 *(Attach when required)*
✓ F. This inspection Recorded in Aircraft Records	

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION	Experimental	
	PURPOSE	Light Sport (WSC)	
B	MANU-FACTURER	NAME n/a	
		ADDRESS n/a	
C	FLIGHT	FROM n/a	
		TO n/a	2000
D	N-678TW		SERIAL NO. TWAEROTRIKE
	BUILDER Aerotrike		MODEL Safari
E	DATE OF ISSUANCE Aug 29 2007		EXPIRY unlimited
	OPERATING LIMITATIONS DATED 8-29-2007 ARE PART OF THIS CERTIFICATE		
	SIGNATURE OF FAA REPRESENTATIVE [redacted] Jay B Kurtz DAR [redacted]		DESIGNATION OR OFFICE NO. SO-15

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding $1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

FAA Form 8130-7 (07/04) *SEE REVERSE SIDE* *NSN: 0052-00-693-4000*

A	This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).
B	The airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production fight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire: and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable CFR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable CFR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in 14 CFR, Part 21, Section 21.181 or 21.217.

U.S. Department of Transportation
Federal Aviation Administration

North FSDO-15

5950 Hazeltine National Dr
Suite 500, Citadel International
Orlando, Florida 32822
407-812-7730, Fax: 407-812-7710

OPERATING LIMITATIONS
EXPERIMENTAL
LIGHT SPORT AIRCRAFT
AIRPLANE

REG. NO.	MAKE:	MODEL:	SERIAL NO:
N678TW	Aerotrike	Safari	TWAEROTRIKE2000

These operating limitations form a part of the Special Airworthiness Certificate issued for the airplane described above and must be displayed in the aircraft in accordance with 14 CFR §91.203(b) and be available to the pilot in command of the aircraft..

(1) No person may operate this aircraft for other than the purpose of meeting the requirements of § 91.319(b) during phase I flight testing and, for the purpose of operating light-sport aircraft, after meeting these requirements as stated in the program letter (required by § 21.193) for this aircraft. In addition, this aircraft must be operated in accordance with applicable air traffic and general operating rules of part 91 and all additional limitations herein prescribed under the provisions of § 91.319(e). These operating limitations are a part of Form 8130-7, must be carried in the aircraft at all times, and must be available to the pilot in command of the aircraft.

(2) This aircraft must display the word "experimental" in accordance with § 45.23(b).

(3) This aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. The owner/operator of this aircraft must obtain written permission from another CAA before operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U.S. airworthiness certificate and, upon request, be made available to an ASI or the CAA in the country of operation.

(4) Application must be made to the geographically responsible FSDO or MIDO for any amendment to these operating limitations.During phase I flight testing to meet the requirements of § 91.319(b), or as a result of the incorporation of a major change, all flights must be conducted within the assigned geographic area. 25 nautical mile radius of Greystone airport Lat29-16.815N, Long82-07.489W

(5) Flight testing required for phase I operations or as a result of the incorporation of a major change will be conducted in the assigned test area. Flight test operations will only be conducted under VFR day conditions, with the pilot as the sole occupant of the aircraft. This aircraft must be operated for at least (5) hours in the assigned geographic area. Following the satisfactory completion of the required number of flight hours in the flight test area, the pilot must certify in the aircraft records that the aircraft has been shown to comply with § 91.319(b) with a statement that includes the following information: "I certify that the prescribed flight test hours have been completed and the aircraft is controllable throughout its normal range of speeds and throughout all maneuvers to be executed, has no hazardous operating characteristics or design features, and is safe for operation. The flight test was completed under the following conditions: maximum operating weight, style/set of wing or sail, maximum demonstrated airspeed, and minimum demonstrated stall speed." All major changes or modifications will be listed in the aircraft records and the compliance statement will be restated with the changes listed. The aircraft may not be operated in excess of the weights and speeds demonstrated.

(6) Any change to the flight test area location or size must be coordinated with the geographically responsible FSDO where the aircraft is based, with FAA concurrence received in writing.

(7) Except for takeoffs and landings, this aircraft may not be operated over densely populated areas or in congested airways.

(8) This aircraft is prohibited from operating in congested airways or over densely populated areas, unless directed by air traffic control, or unless sufficient altitude is maintained to effect a safe emergency landing in the event of a power unit failure, without hazard to persons or property on the ground.

(9) This aircraft is to be operated under VFR day only.

(10) After completion of phase I flight testing, unless appropriately equipped for night and/or instrument flight in accordance with § 91.205, this aircraft is to be operated under VFR day only.

(12) No person may operate this aircraft for carrying persons or property for compensation or hire.

(13) n/a

(14) n/a

(15) The pilot in command of this aircraft must advise the passenger of the experimental nature of this aircraft and that it does not meet the certification requirements of a standard certificated aircraft.

(16) This aircraft must contain the placards and markings as required by § 91.9. In addition, the placards and markings must be inspected for legibility and clarity, and the associated systems inspected for easy access and operation, to ensure they function in accordance with the manufacturer's specifications during each condition inspection.

(17) This aircraft is prohibited from aerobatic flight, that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight.

(18) n/a

(19) The pilot in command of this aircraft must hold at least—

(a) A student pilot certificate with a weight shift control category, single engine land class, and Aerotrike, Safari make/model privilege endorsement by an authorized instructor; or

(b) A sport pilot certificate, with a weight shift control category, single engine land class, and Aerotrike, Safari make/model privilege within that set of aircraft (reference § 61.1(b)(14)); or

(c) A recreational pilot certificate or higher with sport pilot privileges, with a weight shift control category, single engine land class, and Aerotrike, Safari make/model privilege within that set of aircraft (reference § 61.1(b)(14)); or

(d) A recreational pilot certificate or higher.

(20) This aircraft must not be used for banner towing operations or intentional parachute jumping.

(21) The pilot in command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with an operational control tower. When filing IFR, the experimental nature of this aircraft must be listed in the remarks section of the flight plan.

(22) Aircraft instruments and equipment installed and used under § 91.205 must be inspected and maintained in accordance with the requirements of part 91. Any maintenance or inspection of this equipment must be recorded in the aircraft maintenance records.

(23) No person may operate this aircraft unless within the preceding 12 calendar months it has had a condition inspection performed in accordance with the scope and detail to appendix D to part 43, or other FAA-approved programs, and was found to be in a condition for safe operation. As part of the condition inspection, cockpit instruments must be appropriately marked and needed placards installed in accordance with § 91.9. In addition, system-essential controls must be in good condition, securely mounted, clearly marked, and provide for ease of operation. This inspection will be recorded in the aircraft maintenance records.

(24) n/a

(25) Condition inspections must be recorded in the aircraft maintenance records showing the following, or a similarly worded, statement: "I certify that this aircraft has been inspected on [insert date] in accordance with the scope and detail of appendix D to part 43 or the manufacturer's inspection procedures, and was found to be in a condition for safe operation." The entry will include the aircraft's total time-in-service, and the name, signature, certificate number, and type of certificate held by the person performing the inspection.

(26) An experimental LSA owner/operator as a repairman for this aircraft under § 65.107 or an appropriately rated FAA-certificated mechanic may perform the condition inspection required by these operating limitations.

(27) These Operating Limitations and associated FAA Form 8130-7, Special Airworthiness Certificate expire on unlimited

[redacted]

Jay B. Kurtz
DAR [redacted]

Date issued: 8-29, 2007

(20) This aircraft must not be used for banner towing operations or intentional parachute jumping.

(21) The pilot in command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with an operational control tower. When filing IFR, the experimental nature of this aircraft must be listed in the remarks section of the flight plan.

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[redacted]

Jay B. Kurtz
DAR [redacted]

Date issued: 8-29, 2007

WEIGHT-SHIFT-CONTROL (TRIKE)
WEIGHT AND LOADING

Make: AEROTRIKE Date: 8-23-07
Model: SAFARI Registration #: N678TW
Empty Weight: 440 Serial #: TWAEROTRIKE2000
Gross Weight: 950 Wing Make: NORTH WING Model: 19 FT
19 FT

Hang Point Range
The tricycle carriage is suspended from the wing hang point at a range of 56 3/8 inches and 58 6/8 inches back from the datum at the front of the keel tube.

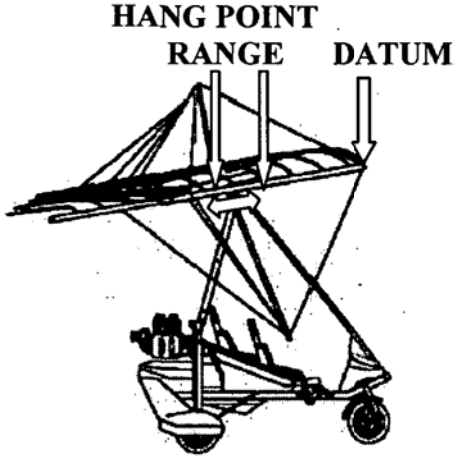
Trim Hang Point Position for Payload Carried (Check and complete 1 or 2)
The wing can be trimmed to adjust for heavy or light payloads and speed by adjusting the trike hang point forward or rearward within the hang point range.

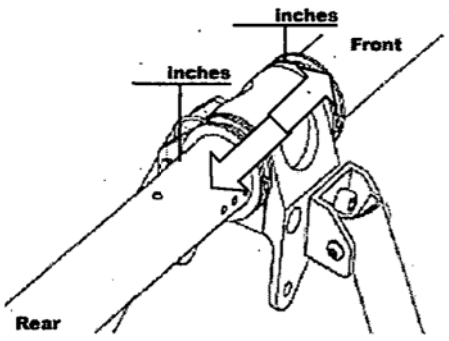
1. ☒ All positions within the hang point range are operational at any payload up to the aircraft gross weight.
2. ☐ For payloads up to _____ pounds use hang point position _____ inches to _____ inches from datum. For payloads from _____ pounds up to aircraft gross weight, use hang point position _____ inches to _____ inches from datum.

Load Distribution (Check and complete 1 or 2)

1. ☒ Any payload up to gross can be distributed between one or both seats.
2. ☐ Specify any payload distribution considerations between the front and back seat

_____





Effect of Changes to Hang Point

		Maneuverability	Speed	Wing Efficiency	Pitch Stability	Use for Payload
Hang point moved Forward	→	↗ Increase	↗ Increase	↔	↘ Decrease	Heavy
Hang point moved Rearward	←	↘ Decrease	↘ Decrease	↔	↗ Increase	Light

Notes:

- ***Empty Weight:*** The total weight of the complete airframe, engine, wing and all permanently installed accessories and equipment. Includes unusable fuel and oil.
- ***Payload:*** Gross weight – Empty weight = Payload. The weight of pilot, passenger, usable fuel, oil and baggage.
- ***Gross Weight:*** Empty weight plus the weight of passengers, fuel, oil, baggage, etc. all that is carried in the plane. Specified by the manufacturer.