



US Department
of Transportation
**Federal Aviation
Administration**

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Ryan	Model Navion A
	Serial No. NAV-4-2086	Nationality and Registration Mark USA N5186K
2. Owner	Name (As shown on registration certificate) Ripley Quinby III	Address (As shown on registration certificate) 3 Mulberry St. Ridgefield, CT 06877

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Brian Grant 21 Miry Brook Rd. Danbury, CT., 06810	<input checked="" type="checkbox"/> U.S. Certified Mechanic	A&P 25225521A
	<input type="checkbox"/> Foreign Certified Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.		
Date	Signature of Authorized Individual	

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No. A&P 25225521A	Signature of Authorized Individual	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. Description of Work Accomplished

(If more space is required, attach additional sheets, Identify with aircraft nationality and registration mark and date work accomplished.)

Installation of Century 1 autopilot in Ryan Navion N5186K, of United States registry, Ser. No. NAV-4-2086 at airframe total time 2724.04 hours per Century Flight installation manual Bulletin #676 dated 9/26/75, I/A/W STC SA3077SW-D dated 10/20/75, using Century Installation Kit AK553.

Installation includes:

Turn Coordinator: Century P/N 52D75-4, S/N 10225E

Roll Servo: Century P/N 1C363-1-553R, S/N 27046A

Circuit Breaker: Mechanical Products 4310-022-3

Switch: MS35058-22

Electrical requirement:

Autopilot: 1.0 amps

TOTAL: 1.0 amps; or 4.0% of electrical system capacity.

Load analysis for existing equipment is 9.472 amps steady state, or 37.9% of electrical system capacity, for a total system load of 10.472 amps, or 41.9% of electrical system capacity.

Weight and Balance:

Installation weight 4.5 lbs., arm 98 inches. Total moment 441 lb-in. New aircraft empty weight 1943.0 pounds, moment 181748.9, CG arm 93.54 inches aft of datum. Aircraft logs updated.

A copy of Century Flight Systems STC #SA3077SW-D, dated 10/20/75, is attached.

A copy of the Century 1 Flight Manual Supplement, P/N 68S288 dated 10/20/75 has been incorporated into the aircraft flight manual. There are no aircraft operating limitation changes associated with this installation.

All work performed in accordance with manufacturers' installation manuals and AC 43.13-1B.

Post installation checkout per Century installation manual satisfactory, and work completed.

END