US Department
of Transportation
Federal Aviation
Administration

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

	For FAA Use Only
OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number

(Airframe, Powerplant, Propeller, or Appliance) INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 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. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark NAV-4-1472 USA N4472K 1. Aircraft Make Model Series Ryan Name (As shown on registration certificate) Address (As shown on registration certificate) Address 692 Old Winchester Rd. Alain F Borel 2. Owner City State VA Boyce 22620-1902 Zip Country USA 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Make Model Serial No. NAV-4-1472 (As described in Item 1 above) **AIRFRAME** X Continental **POWERPLANT** 10-550 \mathbf{x} **PROPELLER** Tyce **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Aero Services LLC U. S. Certificated Mechanic Manufacturer Address 615 Airport Road STE 107 Foreign Certificated Mechanic C. Certificate No. State VA Winchester City Certificated Repair Station A&P3359966IA USA 22602 Zip Certificated Maintenance Organization D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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 Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected FAA Fit. Standards Persons Approved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) **FAA Designee** Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. 3359966

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.

9 Description of Mark Assemblished		
8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nation	ality and registration mark and JSA N4472K	date work completed.)9/11/2020
-		
	Nationality and Registration Mar	k Date
1. R&R Right Magneto with SureFly SIM46C, S/N x6C- Manufacturer's Instructions (Document No. SF1003, R		
2. Connected SureFly SIM in Right Magneto position to batterywith supplied Power Wire & Fuse (Surefly P/N 4 Manufacturer's Instructions (Document No. SF2001). A instrument panel in view of pilot. Performed post-insta Instructions. Engine started and executed magneto run	&6C601) per STC SA Affixed supplied placa Bation checks per Ma	A04378CH and ord to the aircraft's onufacturer's
3. No W&B change.		
4. Inserted SureFly ICA's (Document No. SF1005 for Ein aircraft's records.	ingine & Document N	lo. SF2005 for Airframe)
5. Inserted SureFly AFMS (Document No. SF2006, Re	vision #nn) in POH/A	FM.
·		
Additional Sheets	Are Attached	

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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.

		N4472K	8/17/17	
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A pre-closure inspection v		•	atisfactory.	
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Memorandum

Date:

MAR - 2 2016

To:

See Distribution List

From:

Margaret Gilligan, Associate Administrator for Aviation Alety, AVS-1

THRU: John S. Duncan, Director, Flight Standards Service, AFS-1

THRU: Dorenda Baker, Director, Aircraft Certification, AIR-1 SKING

Prepared by:

James Marks, ADS-B Focus Team Lead, AFS-360, (202) 267-1707

Subject:

Installation Approval for ADS-B OUT Systems

The purpose of this memorandum is to explain the Federal Aviation Administration's (FAA's) policy regarding installation of Automatic Dependent Surveillance-Broadcast (ADS-B) OUT systems into civil aircraft certificated under Title 14, Code of Federal Regulations (14 CFR) Parts 23, 25, 27, 29, and their predecessor regulations, for compliance of section 91.225 and section 91.227. This memorandum replaces the memo dated October 10, 2012 on the same subject.

Note: Compliance to section 91.225 and section 91.227 requires installation of equipment meeting the performance requirements of TSO-C166b or TSO-C154c equipment after January 1, 2020.

How can the ADS-B OUT system obtain initial approval?

Initial ADS-B OUT system pairings (transmitter/GPS) must be approved for installation using the Type Certificate (TC), Amended TC (ATC), or Supplemental Type Certificate (STC) process. Consult your Aircraft Certification Office to determine the appropriate approval process for these initial installations. Once the performance of the initial pairing has been established, the FAA considers follow-on installations of the same pairing to be approved.

Organization Designation Authorization (ODA) holders can issue ATC and STC when authorized by their FAA Organization Management Team (OMT).

After initial approval, can applicable ADS-B OUT systems be installed on aircraft not covered by that approval?

Yes, ADS-B OUT systems that have previously received FAA approval and meet all of the following conditions may be installed and returned to service on other aircraft without further data approval:

.

Note: If an Approved Model List (AML) STC is available that provides for the installation of specific ADS-B transmitter and GPS pairings on listed aircraft, consider using the data from that AML STC for the ADS-B OUT system installation.

Note: Some elements of an ADS-B OUT installation may not meet the definition of a minor alteration, such as the installation of antenna(s) that penetrate a pressure vessel. Such installation elements may require additional data from the aircraft manufacturer or other FAA approved data. Reference Attachment 1 of this memorandum, ADS-B OUT Alteration Flowchart for guidance on determining the eligibility of ADS-B OUT installations covered by this policy.

- a. The ADS-B OUT equipment is manufactured under TSO-C166b or TSO-C154c;
- The Global Navigation Satellite System (GNSS) position sensor is manufactured under TSO-C129 or later, TSO-C145a/C146a or later, or TSO-C196 or later;
- c. The installer has a statement of compliance from the applicable manufacturer(s) or STC holder that the equipment (self-contained) or specific equipment pairing (ADS-B OUT transmitter and GNSS position sensor) have been shown, via TC, Amended TC, or STC, to comply with all section 91.227 requirements. This statement of compliance may be included in the applicable installation instructions. The installation instructions must address how the equipment is to be installed and maintained to comply with not only the applicable TSOs but also section 91.227 requirements;
- d. The installer has documentation from the STC holder(s) (per section 91.403(d)) that indicates the owner/operator of the aircraft has permission to use the STC data for the alteration;
- The ADS-B OUT equipment, GNSS position sensor, and interconnect wiring are connected in accordance with the applicable manufacturer's or STC installation instructions;
- f. The installation is performed in accordance with documentation from the manufacturer(s) or STC holder indicating what configuration settings, if applicable, are to be used for the ADS-B OUT system to meet section 91.227 requirements which include, but may not be limited to:
 - FAA assigned Mode S/International Civil Aviation Organization (ICAO) code address (hexadecimal/octal format) associated with current aircraft registration;
 - (2) Emitter Category (ref. AC 20-165, Chapter 3):
 - (3) System Integrity Level (SIL);
 - (4) System Design Assurance (SDA);
 - (5) Flight Identification (e.g., N-number); and
 - (6) GNSS sensor settings required to correctly communicate with the ADS-B OUT equipment
- g. The installation is performed in accordance with 14 CFR Part 43. Acceptable methods, techniques, and practices may be found in AC 43.13-2B;

. . .

- h. The installed ADS-B OUT system has been verified to comply with both the system configuration and equipment performance requirements of section 91.227. The system configuration aspects of section 91.227 requirements include the ICAO code address, emitter category, SIL, SDA, flight identification, etc. Performance aspects of section 91.227 requirements include Navigation Integrity Category (NIC), Navigation Accuracy Category for Position and Velocity (NACp and NACv), etc. Acceptable compliance verification methods include:
 - (1) Operational Flight Evaluation. Conduct an operational flight evaluation (OFE) per section 91.407(b) and request an FAA ADS-B compliance report at the following email address 9-AWA-AFS-300-ADSB-AvionicsCheck@faa.gov. Include the aircraft's registration number (N-number) and the ADS-B transmitter and GPS equipment make/model information when submitting requests to the FAA for ADS-B OUT system OFE performance checks. Following receipt of the applicable OFE compliance report the installer must verify the installed ADS-B OUT system complies with all section 91.227 performance requirements and the system configuration is correct for the aircraft; or
 - (2) Ramp Test Equipment (ref. section 91.407(c)). Use ramp test equipment to verify proper system configuration and compliance with section 91.227 equipment performance requirements.
- i. The ADS-B OUT alteration must be documented in the aircraft maintenance record per section 43.9(a) and include the statement, "The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227."

Submit a FAA Form 337 to document ADS-B OUT alterations. On Form 337, Block 8, include the following compliance statement, "The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227" along with the applicable ADS-B OUT transmitter and GPS make/model information. Submit the completed Form 337 to the Aircraft Registration Branch, AFS-750, P.O. Box 25504, Oklahoma City, Oklahoma 73125. The Form 337 can be submitted directly without FAA approval in Block 3.

Note: ADS-B OUT alterations performed on aircraft operated by certificated operators may be documented in a manner acceptable to the Administrator.

Can ADS-B OUT systems that do not meet the requirements for installation without further data approval be installed?

Yes, an ADS-B OUT system that fails to meet the requirements for installation without further data approval (as discussed above) must be performed using approved data through appropriate means (See FAA Order 8300.16, Major Repair and Alteration Data Approval for data approval means). Document applicable ADS-B OUT major alterations, per section 43.9, and include the required statements and equipage information specified in the above section in the aircraft maintenance record and on Form 337, Block 8.

Does installation of an ADS-B Out system require revision of the Aircraft Flight Manual (AFM)?

A Company of the Company

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Yes, following installation of a compliant ADS-B OUT system the General section of the AFM must be revised to include the following statement, "The installed ADS-B OUT system has been shown to meet the equipment performance requirements of 14 CFR 91.227." Applicable AFM revisions do not require FAA approval.

Can a TC holder modify their aircraft design for ADS-B OUT under a minor change in type design?

Yes, on those aircraft with existing equipment which can be modified to comply with ADS-B OUT performance requirements and which meet the criteria for a minor alteration as specified in this memorandum. Some installations may not constitute a major change in type design, so the use of a TC amendment or STC is an acceptable method for approval. Once a specific ADS-B OUT system pairing receives a design approval, use of this same pairing on a different aircraft type is a minor aspect of the design change. If other aspects of the design change are evaluated and determined to be minor, the overall design change may be made as a minor change to type design. Pursuant to 14 CFR section 21.95, minor changes in type design may be approved under a method acceptable to the FAA before submitting to the FAA any substantiating or descriptive data.

For aircraft requiring initial installation of ADS-B OUT equipment, consult your Aircraft Certification Office regarding applicability for a major change in type design.

Under FAA Order 8100.15B, Organization Designation Authorization Procedures qualified ODA holders can issue ADS-B OUT approvals without first getting FAA approval. (For additional information, see FAA Policy Memo No. AIR100-15-140-DM30 and AIR100-15-140-DM37 under http://rgl.faa.gov.)

Who should I contact for questions about this policy memorandum?

Mr. James Marks (AFS-360), Phone: (202) 267-1707, email: james.marks@faa.gov

Mr. Alejandro Rodriguez (AIR-130), Phone: (202) 267-8692, email: Alex J.Rodriguez@faa.gov.

Distribution List:

Managers, All Aircraft Certification Offices Managers.

Managers, All Flight Standards District Offices

Managers, All Aircraft Evaluation Groups

Managers, All Manufacturing Inspection District Offices

Manager, Transport Standards Staff, ANM-110

Manager, Small Airplane Directorate Standards Office, ACE-110

Manager, Rotorcraft Directorate Standards Staff, ASW-110

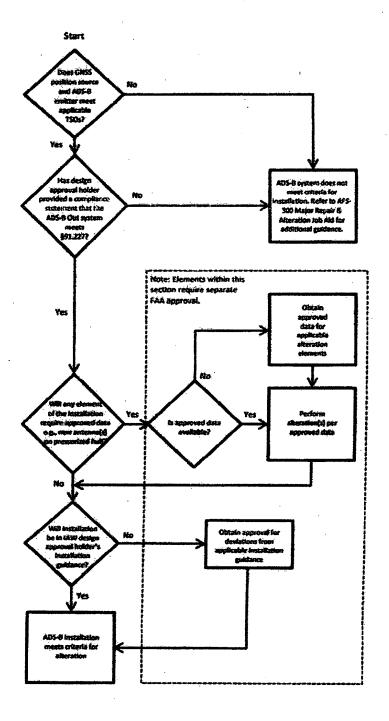
Manager, Engine and Propeller Directorate Standards Staff, ANE-110

Manager, Air Transportation Division, AFS-200

Manager, Flight Technologies and Procedures Division, AFS-400

Manager, General Aviation and Commercial Division, AFS-800

Attachment 1 ADS-B Alteration Flow Chart



U.S Department of Transportation

Federal Aviation

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

Form	Appr	oved	
OME	3 No.	2120-	-0020

For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 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 1958)

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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.

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alted Osborne Tank Co. fuel valve p/n 4090. Installation completed i/a/w Osborne installation instruction p/n 4020-AMOC approved by the FAA dated Osborne Tank Co. fuel valve p/n 4020-AMOC approved by the FAA dated Co. fuel mad Balance negligable and drawing numbers 2050 sheet 1 and 2. C/w AD 2008-05-14 as required in the FAA's letter dated 7/30/2008. Weight and Balance negligable and drawing numbers 2050 sheet 1 and 2. C/w AD 2008-05-14 as required in the FAA's letter dated 7/30/2008. Weight and Balance negligable
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
Description of Work Accomplished

171-689-0-6891:O9D.2.U



Federal Aviation Administration Small Airplane Directorate Chicago Aircraft Certification Office 2300 E. Devon Avenue Des Plaines, IL 60018

July 30, 2008

Mr. John L. Osborne J.L. Osborne Incorporated 18173 Osborne Rd. Victorville, CA 92394

Dear Mr. Osborne,

We have received your letter dated July 15, 2008, requesting approval of an Alternative Method of Compliance (AMOC) to Airworthiness Directive (AD) 2008-05-14. AD 2008-05-14 requires certain fuel system inspections and a fuel selector test for Navion model airplanes. This AMOC applies to Navion model airplanes that have been modified by your Supplemental Type Certificate SA4-915 and SA4-1028, including previously approved fuselage auxiliary fuel tank installations.

Your proposal is to replace the original model 4090 fuel selector valves with a new model 4090 fuel selector in accordance with Osborne Installation Instruction P/N 4020-AMOC dated July 28, 2007. The fuel valve can be installed using a similar mounting location and hardware. All fuel system attachments have been produced and installed using aerospace standard materials and processes using accepted industry practices.

A fuel system and engine operation functional test must be performed, found acceptable, and noted in the airplanes maintenance logbook. Please ensure that the pilot/operator understands and is briefed on the proper fuel selector use and operation.

In accordance with AD 2008-05-14 fuel system inspection requirements, please confirm the fuel system inspection has been performed and note it in the airplane maintenance logbook.

Your request for an AMOC is granted. Please note that this AMOC is for the above described Navion model airplanes that incorporate your STC SA4-915 and SA4-1028 and previously approved fuselage auxiliary fuel tank installations only. This AMOC is acceptable subject to a conformity inspection performed in accordance with 14 Code of Federal Regulations (CFR) Part 43.7. This letter must become part of the permanent airplane maintenance records.

Please provide a copy of this AMOC letter to your local Flight Standards District Office (FSDO) to notify them of the AMOC.

If you have any questions, please contact me, at (847) 294-7132 or by electronic mail at timothy.smyth@faa.gov.

Sincerely,

Timothy Smyth Senior Engineer, Propulsion

Chicago Aircraft Certification Office

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OSBORNE INSTALLATION INSTRUCTION P/N 4020 – AMOC



CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

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1.1	Introduction	1
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1.3	Specifications	1
2.1	Preliminary Procedure	1
2.2	Fuel Selector Valve Installation	. 1
2.3	Fuel Line Installation	1
2.4	Final Installation	. 1
	Drawings:	
	2050 Sheet 1 of 2 2050 Sheet 2 of 2	

- END -

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1.1 INTRODUCTION

The following installation instructions cover the removal of the affected four way selector valve and installation of the Osborne replacement valve P/N 4020/4090.

All phases of this installation may be accomplished by a qualified A & P mechanic. Installation manual 4020 – AMOC contains all specific data and drawings to complete the installation. Read this manual thoroughly before beginning installation.

1.2 GENERAL NOTES

Carefully examine all fittings under pressure for possible leaks after installation.

1.3 SPECIFICATIONS

Type

Four-way fuel selector valve

Weight & Balance

No Change

Approval Basis

FAA AMOC

2.1 PRELIMINARY PROCEDURE

The following steps must be made before installation of the selector valve and associated plumbing is begun.

- A. Drain necessary fuel from the aircraft tanks.
- B. Remove existing seats and floor panels to gain access to those areas shown on the included drawings.

2.2 FUEL SELECTOR VALVE INSTALLATION

Remove the existing aircraft fuel selector valve assembly. Install the fuel selector valve provided as shown on drawing 2050 sheet 1. Re-connect the existing main tank line and engine supply line and other aux lines (if applicable) to the fuel selector valve and secure as shown on drawing 2050 sheet 1.

2.3 FUEL LINE INSTALLATION

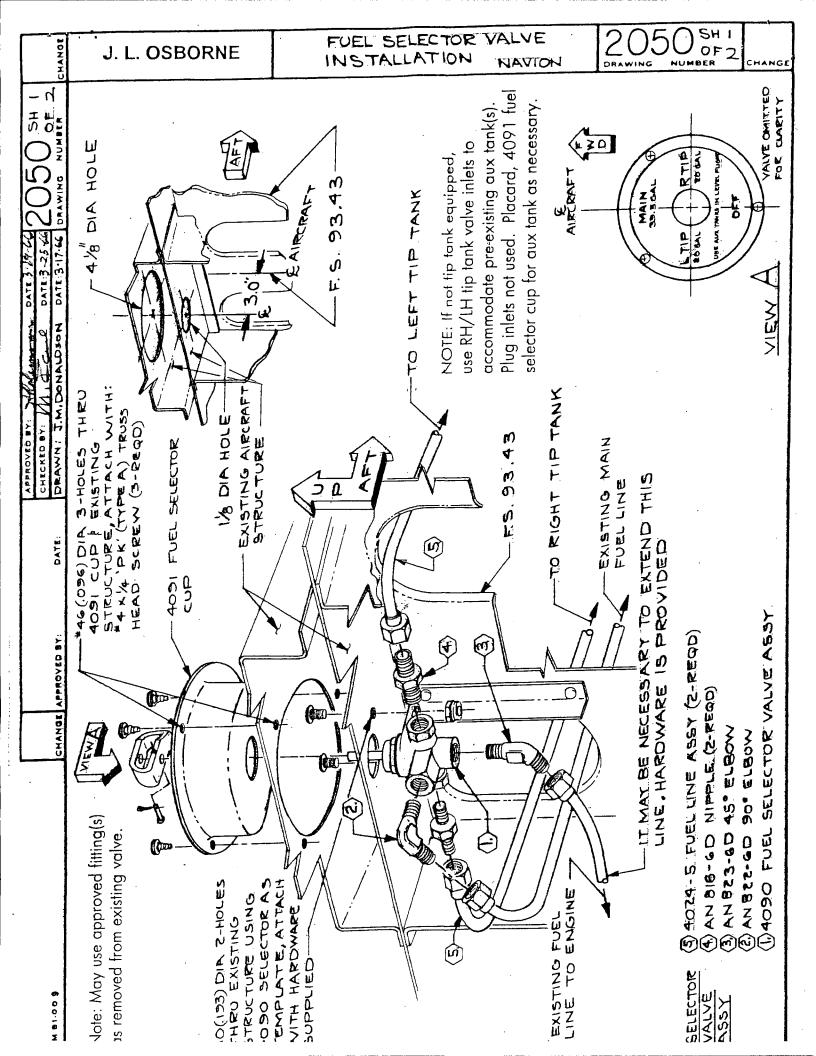
Reconnect valve fitting's and fuel lines as before.

2.4 FINAL INSTALLATION

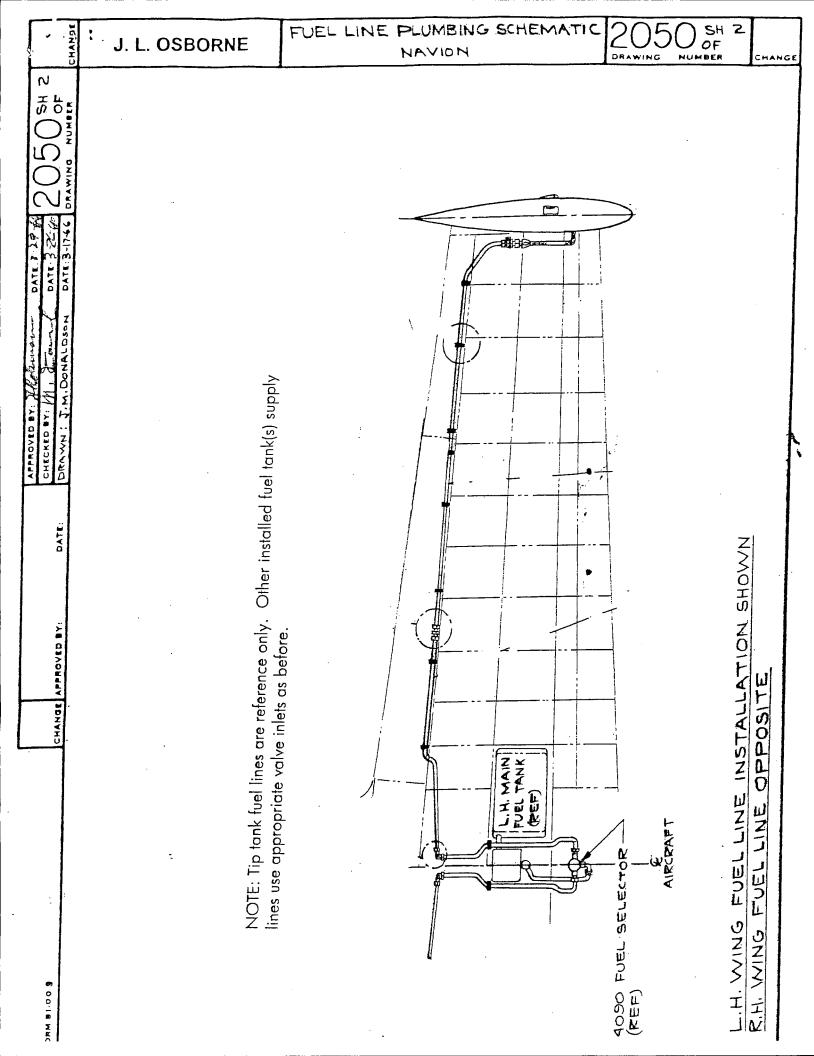
Provide fuel in the tanks and run a complete leak check of the entire fuel system.

Re-install upholstery and floor panels removed for this installation. Upon completion of the selector valve installation, install and record/provide all appropriate documents as FAA required to return aircraft to service.

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PART CONFORMANCE

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STAR ROUTE BOX 11

OROGRANDE, CA 92368

PHONE (619) 245-8477

MODEL A 11/4/L

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U.S. Department of Transportation Federal Aviation

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

Form Approved OMB No. 2120-0020

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NOTICEWeight 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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Sep-22-2005 USA N4472K Ryan NAVION NAV-4-1472

Installed a new PS Engineering PMA-6000M audio panel marker beacon/intercom system.

Installed the PMA-6000M audio panel at the top of the left radio stack. The PMA-6000M is wired as a four place intercom system. The pilot has a yoke mounted PTT switch. Both the pilot and co-pilot have instrument panel mounted mic and phone jacks. The rear seats have mic and phone jacks mounted in AG-JH1 Black Aluminum jack housings. #1 and #2 music jack inputs are installed. The #1 jack is installed next to the co-pilot

mic and phone jacks. The #2 is mounted in the left rear mic and phone jack housing. The Marker Beacon receiver is connected to the newly installed CI-102 marker antenna. The PMA-6000M intercom was connected per the PS Engineering installation manual p/n: 200-066-0100, Rev 1, March 2005. All equipment was installed per PS Engineering factory installation manual and AC43.13-2A, Chapter #2, Paragraphs 21,22,23,25 and 27 Chapter #3, Paragraphs 36 and 42. New weight and balance and equipment list was prepared and entered into the aircraft flight manual.

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Sep-22-2005 USA N4472K Ryan NAVION NAV-4-1472

Instructions for continued Airworthiness for installation of the PS Engineering PMA-6000M Audio Panel system in Ryan Navion S/N NAV-4-1472, N4472K, attached to FAA Form 337 dated September 22, 2005.

- 1. INTRODUCTION: This alteration consists of the installation of a PS Engineering PMA-6000M Audio Panel/3LMB/Intercom System.
- 2. DESCRIPTION: This installation uses a PS Engineering PMA-6000M Audio Panel/3LMB/Intercom system.
- 3. CONTROL, OPERATION INFORMATION: This information is located in PS Engineering PMA-6000M audio panel PMA6000M-Mono Pilot Guide
 - 4. SERVICE INFORMATION: There is no regular servicing required.
- 5. MAINTENANCE INSTRUCTIONS: Repair of the PMA-6000M system is currently performed at the factory. For installation problems consult PS Engineering PMA-6000M Audio Panel Installation Manual Document p/n: 200-066-0100, Rev 1, March 2005.
 - 6. TROUBLE SHOOTING INFORMATION: This information is available by contacting the manufacturer.
- 7. REMOVAL AND REPLACEMENT INFORMATION: Refer to PS Engineering PMA-6000M Audio Panel Installation Manual Document p/n: 200-066-0100, Rev 1, March 2005.
- 8. DIAGRAMS: Mechanical installation and wiring information is available in PS Engineering PMA-6000M Audio Panel Installation Manual Document p/n: 200-066-0100, Rev 1, March 2005.
 - 9. SPECIAL INSPECTION REQUIREMENTS: None required.
 - 10. APPLICATION OF PROTECTIVE TREATMENTS: Not applicable.
 - 11. DATA: No special data required.
 - 12. SPECIAL TOOLS: No special tools required.
 - 13. FOR COMMUTER CATEGORY AIRCRAFT: Not applicable.
 - 14. RECOMMENDED OVERHAUL PERIODS: No additional overhaul time limitations.
 - 15. AIRWORTHINESS LIMITATION SECTION: None.
- 16. REVISION: To revise these instructions for Continued Airworthiness, a letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA for FAA approval.

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FAA Form 337 (7-67) \$\times 118 Government Printing Office 1977—772-661/41 (8320)	FAA E	<u> </u>		VIJUNIA	4 41	SULUC!			2200

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

REMOVED THE FOLLOWING EQUIPMENT:

BRITIAIN NAVION WING ROOT FRG KIT

9.5 1bs

REAR MOUNTING STEP

18.5 lbs

BENDIX A.D.F RADIO ANT & CABLES 20.0 1bs

INSTALLED NARCO AT 50 TRANSP AND ANTENA

INSTALLED D&M E.L.T. AFT OF REAR CARGO COPT BLKD.AF FLOOR LEVEL . INSTALLED E.L.T. ANTENA IN REAR FUSE CONE AFT OF CANOPY.

RELOCATED OMNNI ANT FROM TOP OF CANOPY TO TOP OF VERT. FIN REMOVED ELECT TEB AND INST. VAC. TEB .USED THIS ELECT CIRCUIT TO POWER TRANSP . FUSE PROTECTED.

WORK COMPLIES WITH EA-43.13-1A & 2A CHAPTER RADIO INSTALLATIONS

AND CHAPTER 3 ANTENA INSTALLATIONS.

WIGHT COMPUTED AND FOUND WITHIN C.O LIMITS . NEW E.W. AND USEFUL LOAD EFFERED IN LOG BOOK.

ADDITIONAL SHEETS ARE ATTACHED

W 3 4 *Q* BoJget Burean No. 41-R041.5.

U. S. DEPARTMENT OF COMMI	PCF	Form Approved. B	n.lget Bureau No. 41-R041.5.
CIVIL AERONAUTICS ADMINISTRA		INST	RUCTIONS
APPLICATION FOR AIRWORTHINES AND/OR ANNUAL INSPECTION OF			Submit this form to the ninistration Aviation Safety
	AN AIRCBAFI	Field Representative.	
1. TYPE OF APPLICATION (Check which)			
AL ORIGINAL ISSUANCE OF CERTIFICATE		TIFICATION UNDER THE PRO	
b. ANNUAL INSPECTION FOR RENEWAL OF CERTIFICA	ITE e 🗌 MULTI	PLE CERTIFICATE UNDER TH	E PROVISIONS OF CAR 8
E. AMENDMENT OR MODIFICATION OF CURRENT CER	TIFICATE (
2. AIRWORTHINESS CLASSIFICATION (Cheet op. It is requested that the Certificate of Airworth worthiness classification(s):		nit operation of the airc	raft in the following air-
a. ▲ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANS b. ☐ LIMITED (SEE CAR 9)	PORT CATEGORIES)		
E. ☐ RESTRICTED (SEE CAR 8)			지독 시민들은 물론 경기 함께
(Check the restricted special purpose operation(s) to be con	and the second of the second o	그는 말이 하지 않는 그를 늦을	그렇다 함께 발표를 하시다.
AGRICULTURAL AND PEST CONTROL	☐ PATRO		
AERIAL ADVERTISING		T AND WILDLIFE CONSERVAT	FION
AERIAL SURVEYING	☐ WEATH	ER CONTROL	
GLIDER TOWING	☐ OTHER	바일하는 걸어 그런 일하는 생생	hg 시설수는 고면원 첫 10 전원 - 10
d. 🗌 EXPERIMENTAL			- 기회에게 교육 교육 유리를 하
(Check the type of experimental operation(s) to be conducte			
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AMATEUR-BUILT	☐ EXHIB		충성 현기를 받았는 모든 .
☐ DEMONSTRATION	□ отнёв		
3. AIRCRAFT IDENTIFICATION (Complete all items)			Mar Sagar Lawring St
a. AIRCRAFT MAKE b. AIRCE	AFT MODEL	c. AIRCRAFT	SERIAL NO.
병원 장면의 열차를 하면 생각하는 생각을 내고 하다.			
	Nevion	NAV-4	-1472
d. ENGINE MAKE	€ ENGINE M		
Continental	E185	-3	
4. AIRCRAFT REGISTRATION INFORMATION	(Complete all items)		
a. REGISTERED OWNER'S FULL NAME	b. PERMANE	NT MAILING ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
<u> - 영화왕이는 역 설명은 함</u> 면 되었다. 이 이 이 아이 아니다.			AND REGISTRATION MARK
Cassens Transport	Hemel.	Illinois	4472K
			N
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[요리] 네는 네란 아이들을 됐어? 얼마 그리다.			
5. AIRCRAFT OWNER'S CERTIFICATION (Check			
I hereby certify that I am the registered registered* with the Civil Aeronautics Adminis	owner (or his agent) of tration as required by	the aircraft identified i the Regulations of the	n Item 3 above which is Administrator, Part 501
or 502 and when operated displays the following		July 20, 1954	
. E CERTIFICATE OF REGISTRATION, FORM ACA-S00 (P			
b. APPLICATION FOR REGISTRATION FORM ACA-500	(PART B). FORM ACA-500, P	ART A, FORWARDED TO CAA	AIRCRAFT RECORDS BRANCH,
W-300 ON(DATE) DEALER'S REGISTRATION CERTIFICATE, FORM ACA			마리 맛 많은 이 글로 하다.
E LI DEALERS REGISTRATION CERTIFICATE FORM ACA	-::w, UAIED		[일 기타이라 [[] 14 기 기탁기
"In order to be eligible for registration an aircraft must be owned by a cilizen of the United States, as defined by Section 1 (18) of the Civil Aeronautics Act of 1938, as amended.			
	1 0+	- n. 00.	그리는 이 그리 역환 원생님이 되고 보자
ATTACHMENTS (Check which)	Cleta	Mulle	
ACA-319 WEIGHT AND BALANCE REPORT	Cletus		<u> </u>
l B C	(CH2MATT	IRE OF REGISTERED OWNER OR A	ITHORIZED AGENT)
ACA-337 DATA, DRAWINGS, ETC.			바이 작사 하나 가는 가장
☐ ACA-337 ☐ DATA, DRAWINGS, ETC. ☐ ACA-317 ☐ UNAPPROVED DEVIATION DATA	March 23, 195		Agent (TITLE)

- 42884.

u.s.	DEPARTMENT	OF COM	MEDOE
	AERONAUTICS A		

AIRCRAFT INSPECTION REPORT

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and an electrical in item 3 on the reverse of	this form has been inco	ected and found to conform to the followi
		cered man to and to comparin to the londal
AIRCRAFT AND ENGINE CERTIFICATION B. AIRCRAFT SPECIFICATION NO 782		
	THROUGH SHEET REVISION	i No. <u>30</u>
b. AIRCRAFT LISTING PAGE NO.		
E AIRWORTHINESS DIRECTIVE SUMMARY 1956	THROUGH CARD N	o. <u>6</u>
L CIVIL AIR REGULATION PART 8 (MODIFIED TYPE C	ERTIFICATE)	[요즘 [편집] 본경 크리 [하고 원고 전 시간].
		<u> </u>
AIRCRAFT AND ENGINE OPERATING RECO	RDS	
. AIRCRAFT NEW-NO PREVIOUS OPERATION OR MAI	NTENANCE HISTORY	그 경우는 시민이 살아 다른 사람들이 살아들다면?
b. S COMPLIANCE WITH APPLICABLE AIRWORTHINESS DI		
c. AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS	BEEN OPERATED A TOTAL OF	1007:45 HOURS
d. ENGINE RECORDS INDICATE THE FOLLOWING OPER	ATION:	The state of the s
SERIAL NO. 5064-D-M		8:25
SERIAL NO.	5 174-747 F 147 T	
SERIAL NO.	TOTAL HOURS	
	TOTAL HOURS	
SERIAL NO.	TOTAL HOURS	
PREVIOUS INSPECTION DECORD (IN	AN	
PREVIOUS INSPECTION RECORD (INSPECTI	化基氯化 医乳腺性 医高层 医二氏性 化二氯化 医二种毒物 医二种	RM ACA-319)
LAST AIRWORTHINESS INSPECTION CONDUCTED MAI	ren 23, 1956	
BY AIRCRAFT MANUFACTURER	(DATE)	LY 3 DIX
BY APPROVED REPAIR STATION, CERTIFICATE	E NO. 3735	
그 나는 사람들은 그렇게 하는 사람들이 나를 하는 것 같아 가장 하는 것이다. 그는 사람들은 사람들이		LI PER SON FOR
b. PERIODIC AIRCRAFT INSPECTION REPORT, FORM AC	A-110 WAS PETTIENED TO O	H 22 00 TO
하면하는 내가 크리고 그리고 있어 한번째 기본 없다.		7 3 3 6 7
AIRWORTHINESS DOCUMENTS ISSUED OR F	REVIEWED	1 1 1 1 1 1 1 1 1 1
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a. OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUE	ED (COPY ATTACHED)	
b. CURRENT OPERATION LIMITATIONS, FORM ACA-309.	IS AVAILABLE IN AIRCRAFT	
C. CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS	AVAILABLE IN AIRCRAFT	어느 그 사람들이 그렇게 하를 하시고 하다.
A. LX CURRENT WEIGHT AND BALANCE INFORMATION IS A	WAILABLE IN AIRCRAFT	그 그 또 한 별살리를 목숨하게 다리가 다
EX THIS INSPECTION HAS BEEN RECORDED IN THE AIRC	CRAFT RECORDS	지수는 그림만 나는 경하는 화를 모음을 하는다.
1. X CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, I		1 23, 1957
EXPREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE	March 24, 1956	(DATE)
BY George Skistimas		3348
(NAME OF ISSUING REPRESENTATIVE)		KATTON RO.)
CAA APPROVED REPAIR STATION CERTIFIC	ATION	
The sizeraft described on the second beat to		그. 그림 모아를 하셨습니까 싫어를 다르는
The aircraft described on the reverse has been No. 3735 by CAR 52 and was form	n inspected under the	uthority accorded certificated repair stat
No by CAR 52 and was found	"The Mille	
	Cletus Miller	Wassh 97 1050
□ UNAIRWORTHY _	(REPAIR STATION AUTHORIZED :	March 23, 1956
AA REPRESENTATIVE CERTIFICATION		(DATE)
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		FEDERA	L AVIATION AG	ENCY	Budget Bu	resu No. 04-E050.
MAJO	R REPAIR AND ALTERA	TION FORM (AIRFRAME, POV	VERPLANT, PROPELL	ER OR APP	LIANCE)
I. AIRCRAFT	Ryan		Navion A	NAV-4-1472	N447	REGISTRATION MAI
2. OWNER	NAME (First, middle, last) General Refrige	ration Se	rvice Co. 4	ess (Street and number, city, zon 025 Forest Per t. Louis, 8 Mi	k Blvd.	Cardiol II
. COMPLET	TE ONLY FOR UNIT REPA	TICS MANUAL I	ALTERED. DESCR	BE WORK ACCOMPLIS	HED ON RE	VERSE IN AC
UNIT	MAKE		MODEL	SERIAL NO.	NATURE OF	WORK (Check)
AIRFRAME		*** (Applementyed	iging also Bree			x
. POWERPLANT						
. PROPELLER	i in her had	JUL	6- 1500		ر موجود می استوری	
L APPLIANCE	TYPE AND MANUFACTURER		GADO 19			-,
AIRCRAF	T WEIGHT AND BALANCE ER the repairs and/or alterations described below were made.	case of a	a spare component, n an aircraft. At tl	ed by repair or alteration it will not be completed his time, it will be completed	until such co	lowever, in the imponent is in stalling agency
CATEGORY	EMPTY WEIGHT	(Pounds)*	EMPTY CENTER O	F GRAVITY (Inches from datum)*	USEF	UL LOAD (Pounds)*
Mornal	1632.6	5	95	•51	II-	917.35
	MITY STATEMENT (Complete	and check)				
	W. Allott		6. KIND OF AGENCY	44.4	A 2 D	069 534
Box 72	· · · · · · · · · · · · · · · · · · ·			ated Mechanic.		409904
Mossvi	lle, Illinois		Certificated			
			☐ Manufacture			
			Was I	ck if repair or alteration nade under delegation op- procedures.)	1	•
attachmer	that the repair and/or alter its hereto have been made i nation furnished herein is tro	n accordance with	e unit(s) identified the requirements of	under item 3 above and f Part 18 of the U. S. Ci	described on vil Air Regula	the reverse or tions and that
	/ /1/1.				- Ca	2
5-12				Maria Land		
(Date rep	sir and/or alteration completed)			(Signature of authorized inc	jividual) =	<u> </u>
(Date rep		low the unit iden				y the Adminis
(Date rep i. APPROVA Pursuant i trator of t	sir and/or alteration completed) LL FOR RETURN TO SERV to the authority specified be he Federal Aviation Agency PROVED BY TAA FI Standar	low the unit iden and is esignee	tified in item 3 was	inspected in the manner anadian Department of This her (Specify)	r prescribed b	etor of Aircraft
(Date rep	L FOR RETURN TO SERV to the authority specified be he Federal Aviation Agency PROVED BY FAA PI Standar Inspect	low the unit iden and is esignee	ufacturer. Circ Station	inspected in the manner	r prescribed by	ctor of Aircraft
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(Date rep. APPROVA Pursuant trator of t	sir and/or alteration completed) LL FOR RETURN TO SERV to the authority specified be he Federal Aviation Agency PROVED BY TAA FI Standar Inspects 2-54. of approval or rejection) DMPLETED ONLY BY FAA	Iow the unit iden and is esignee Man ight Repa	ufacturer. Cir Station Ot	inspected in the manner anadian Department of Ti her (Specify) W. Allott I.A of authorized individual: title or	r prescribed by	ctor of Aircraft
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INSTRUCTIONS

each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Instelled Navion Mark II wing tip tanks, Part #2009, in laccordance with Instelled Navion Mark II wing tip tanks, Part #2009, in laccordance with Instelled Navion alleron Balancing Kit Part #3010, in accordance with Installed Navion alleron Balancing Kit Part #3010, in accordance with Installation Hannal Al-1, dated Dec. 29, 1959 and Supplemental Type Certificate No. SA4-1007. 6.25# at #100.5.

Removed flare kit, 16 lbs. at #188. Removed AS-1B Trans.-Rec., 9 lbs. at #72., Power Unit 4 lbs. at #60., Antenna & Cables at 3 lbs. At #132.

Height & Balence	المنافق والمنافع والم
Item Weight Arm	Homent
Aircraft 1838.4 96.11	
IN accordance to the second se	17 6690.6
ACLID ************************************	~ 3008.
TO THE VEHICLE OF THE PARTY OF	- б48.
Power unit removed 4. 60.	- 240.
Anterna & Cables rem 3	
THE CONTRACTOR OF THE CONTRACT	- 395.
- Mich. 18 - 11 - 12 - 12 - 12 - 12 - 12 - 12 -	628 .18
Tip Tank Inst. 20. 100.5	2010.
1832.65	
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175036.78 = / 95.53 New Empty Wt. C.G.

	Forward Load Condition	The second second
Item	Weight	lioment
Aircraft Pilot	1B32.65	175036.73
Pass front	170.	16320.
Oil (10 qts.)		16320.
Fuel 15.3 ga	1 /	741.
		9476
	요즘 하는 사람들 보고 가득하다는 사 람들이 가득하다. 그렇게 되는 것을 것을 걸리는 점수 있다는 모두 가득하다. 그리	217893 .7 3

217893.73 = / 95.41. Most Fud C.G. condition

C.G. Limits - Utility -(94.8) to (104.9) (98.1) to (104.9) at 2750 lbs. (94.8) to (104.9) at 2350 lbs or less. Normal ***********

"If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work compl Check block if additional sheets are attached.

U. S. GOYERNMENT PRINTING OFFICE: 1961-0-567360

Form FAA-887 (4-52)

			· · · · · ·	466	i eri. <u>Tanana</u>	536			·
	_	Operator #56		L AVIATION A					rest No. 04-Ress.
1. AIRCRAFT	MAKE	Navion		Navion A		SERIAL NO. Nav 4-1472	MATIC		D REGISTRATION MARK
2. OWNER	2. OWNER General Refrigeration Service Co., Inc. St. Louis, 8 Mil.							ats)	
3. COMPLE	e Wi	Y FOR UNIT REPAIRE	ED AND/OR	ALTERED. DES					VERSE IN AC-
LINIT		HAR		MODEL		SERIAL NO.		ATURE OF	WORK (Check) MAJOR ALTERATION
_ JRFRAME		***************************************	(As described	in item I sbere) 🎮		**********			х
F. POWERPLAN	т		The dat with ap	a-altan Ven Identific piloable einvorthiness	d herein ra: vire:	complied	•		
a. PROPELLER			aircraft	roved only for the subject to conform	ity inspi	ection by			
d. APPLIANCE	-	T.PE AND MANUFACTURER	2	ING INSPECTOR	~~	my of Com	22-697	4	
AF.	ER the re	SHT AND BALANCE DA pairs and/or alterations i below were manu.	case of a	a spare componer n ar aircraft. A	at. it v	by repair or alterational to the complete time, it will be complete time, it will be complete.	i until :	such co:	owever, in the mponent is in- talling agency,
CATEGOA	•	FMPTY WEIGHT (Por	indr)"	EMPTY CENT	R OF G	tAVITY (Inches from datum)		USEFU	L LOAD (Pounds)*
Standard		1838.4		+9	6.11				911.6 511.6
		TATEMENT (Compile and	check)	T					
AGENCY'S (A				5. KIND OF AGENC				ERTACATI	
12050	ilgie:	Campbell rs Drive 46 Chic		Certificat	ertifica ed Rep urer. Theck	sted Mechania	n	S.2 66	9 97 9
Autachmen	ets bere	e repair and/or afteration to have been made in ac unushed herein is true as	cordance with	the requirement	of P	art 18 of the U.S. C	l descri ivil Air	bed on Regula	the reverse or tions and that
	25/F	: alteration completed)		Mil	lia	(Signature of authorized in) dividual)	ble	<u> </u>
Pursuant	to the a	RETURN TO SERVICE uthority specified below eral Aviation Agency and	the unit idea		ras ins	pected in the manne	r presc	ribed by	y the Adminis-
	PROVEI JECT/1	3 RV / -	,	ufacturer []	Canad Other	fian Department of T (Specify) Inspec	ranspor	n Inspec intho:	etor of Aircraft rization
	/26/1	sl or rejection)	1, 3,25°E	(Signat	Zas ture of sa	stac	100000	ation nun	aber)
7. TO BE CO	MPLET	TED ONLY BY FAA PER	SONNEL				Y		· · · · · · · · · · · · · · · · · · ·
E M Accepte	a <u>f</u>	engineering comment 2-2-109 DTIONED EGION GADO	☐ See at Reinspecte 1.	tached memorano (Data)	lum	∑ Spot Check	ked_//	- 26 - 0	Date)
(4)		GMD()	s et g et	Ter	7	Signature Flight Etandards	Inspecto	r)	

18 DEC 5 1964

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

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B. DESCRIPTION OF WORK ACCOMPLISHED.

Installed Rotating Beacon on fin of subject aircraft. Fiberglass fin tip adapted for beacon installation was removed from Navion N182N and installed on subject aircraft. Attrickment was in same manner using machine screws. Grimes beacon was removed from cabin roof to fin and same switch and circuit breaker was used.

Weight & Balance

Aircraft Beacon

1836.4

1838.4

176150 176600.6

176650.6 = 96.11 new empty C.G.

\$5.54

250.3

OKLAHOMA CITY, OKLA:

89. HV 60 8. 5 030

REGISTRATION ERATION

Nayo

. AIRCRAFT	1. AIRCRAFT MAKE MOD		OUE.	SERIAL NO.		UND REGISTRATION MAR
	Ryan		Navion	Eav4-1472	N4472	2K
. OWNER	Casaens Transpo	rt Co.		Hame 1, III.	e and State)	
CORDANCE	ONLY FOR UNIT REPAIRE	ED AND OR	ALTERED. DESCR	IBE WORK ACCOMPLIS	HED ON RI	EVERSE IN AC-
UNIT	MAKE		MODEL	SERIAL NO.	NATURE C	F WORK (Clinck) MAJOR ALTERATIO
AIRFRAME	***************************************	♦ (As described	in item I above) ####		*	
POWERPLANT						
. PROPELLER	•					
. APPLIANCE	TYPE AND MANUFACTURER	ALL S			,	
. AIRCRAFT \ *AFTER desc	WEIGHT AND BALANCE DA the repairs and/or alterations cribed below were made.	TACO	m into pe comple spre compunent, an airceast At t	ted by repair or alteratio it will not be completed his time, it will be comple	n agency. until such ceted by the in	However, in the component is in- netalling agency,
CATEGORY	EMFTY WEIGHT (Per	unds)	EN CENTER	OF GRAVITY (Inches from datum)*	USE	FUL LOAD (Pounds)*
Standard	\	7	≠ 95.	.94		13.6 N 513.6 U.
. AGENCY'S NAME A	TY STATEMENT (Complete and ADDRESS	check)	6. KIND OF AGENCY		e. CERTIFICA	TE NO.
Tur Lun	rles P.Easton bleson Aviation icipal Airport Vernon, Ill		Foreign Cer Certificated Manufactur (Che was	cated Mechanic. tificated Mechanic. Repair Station. er. © sek if repair or alteration made under delegation op procedures.)	1	1001949
attachments the informat	t the repair and/or alteration hereto have been made in action furnished herein is true a	cordance with	h the requirements (of Part 18 of the U.S. Ci	vil Air Regu	n the reverse or lations and that
. APPROVAL	FOR RETURN TO SERVICE the authority specified below					by the Adminis-
APPE DE CONTROL DE CON	Safety Age	ition 🔲 Re	pair Station 😨 O	anadism Department of Tither (Specify) Inspection # 100	ction And 1949	uthorizat
(produce rection) PLETED ONLY BY CAA PER	SCUNET	;. (aiguita	e or managemen manyments, trile or	IGENERATED D	uniter)

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Form ACA-337 (4-53

INSTRUCTIONS

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This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propaller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes:

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Replaced nose cowl, both lower cowl-skins, nose gear retracting link, windshield withsmooth contour type *kxhaust system replaced with Simonz exhaust kit. Propellor returned to Hartzell-Corp for overhaul and reinstaledd. No weight change

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

THE PERSON NAMED IN

MAJOR	REPAIR AND ALTERAT	CIVIL AERO	RTMENT OF COMINAUTICS ADMINISTR	MOTATION	*	read No. 41-R052.4.
1. AIRCRAFT N	Ryan	(4) 35 55 5 MC	Navion A	Nav -4-1472	MATIONALITY AN	D REGISTRATION MARK K
2. OWNER	Caseens Trans	100		ESS (Street and number, city, 1984) Hamel, Illinoi		1740 H.F. Si militari 1484 F. Living
3. COMPLETE CORDANCE	ONLY FOR UNIT REPAIR	ED AND OR	ALTERED. DESCRI	BE WORK ACCOMPLIS		
UNIT	MAKE "		MODEL	SERIAL NO.	NATURE OF MAJOR REPAIR	WORK (Check) MAJOR ALTERATION
s. AIRFRAME	***************************************	00 (As described	in item I above) #####	••••••		х
. POWERPLANT						1.0
PROPELLER						
L APPLIANCE	TYPE AND MANUFACTURER				**1	
AIRCRAFT *AFTER des	WEIGHT AND BALANCE D the repairs and/or alterations scribed helow were made.	seen of	s spare component, n an aircraft. At th	ed by repair or alteration it will not be completed his time, it will be completed	until such co	However, in the imponent is installing agency,
CATEGORY	EMPTY WEIGHT (J			F GRAVITY (Inches from dalum)*	USEF	UL LOAD (Pounds)*
Standan	1836. 4		≠ 95•9	4		13.6 513.6
. CONFORMI	ITY STATEMENT (Complete an	nd check)	5. KIND OF AGENCY		G. CERTIFICAT	
Peori	N. Dechman Ave. a, Illinois		☐ Foreign Cert ☐ Certificated ☐ Manufacture ☐ (Che Was) tion	r. ck if repair or alteration nade under delegation op procedures.)	1	122700
I certify the attachments the informa	at the repair and/or alterat s hereto have been made in tion furnished herein is true	ion made to the accordance with and correct to	the the requirements of the best of my key	under item 3 shows and i Part 19 of the U.S. Ci	described on	ations and that
5=31 (Date repair	=57 ir and/or alteration completed)			(Signature of authorized in	dividual)	
Fursuant to	FOR RETURN TO SERVICE the authority specified belows	w the unit iden	lete appropriate ttems) attified in item 3 was	inspected in the manne	r prescribed b	by the Adminis-
		signee 🗌 Ma	nufacturer 🔲 C	anadian Department of T ther (Specify) I . A	ransport Insp	ector of Aircraft
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⊠ APP □ REJ		ristion	· · · · · · · · · · · · · · · · · · ·	7. //. //a	700 r Identification no	imber)
MAPP ☐ REJ 5-31- (Date of	57 (approval or rejection) MPLETED ONLY BY CAA P	ERSONNEL	(Signature	of authorized individual: 100s o	700 ridentification no	ımber)
5-31- (Date of 7. TO BE COM	Spectral or rejection) MPLETED ONLY BY CAA P ed for engineering comment	ERSONNEL	(Signature itached memorandu	of authorized individual: 100s o	· .	imber)
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8. DESCRIPTION OF WORK ACCOMPLISHED.

Install Symons Cowl Flaps as per Symons Drawing #103 as called for in Item 122 of Spec. #782. No change in weight.

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

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Check block if additional sheets are attached.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CIVIL AER	ARTMENT OF COMMONAUTICS ADMINISTR	ATION	N.J.		resu No. 41-R052.4
MAJOR	REPAIR AND ALTERATI	ON FORM	(AIRFRAME, POW	ERPLANT, PI	ROPELLE	R OR API	PLIANCE)
1' AIRCRAFT	Ryan	de e se et el di Proglès	Navion	SERIAL NO.	72		id registration ma K Stendar
2. OWNER	NAME (First, middle, last) Cassens Transpor	t Co.	ADORE	SS (Sirvel and numb		ne Male)	
3. COMPLET	E ONLY FOR UNIT REPAIR E WITH CIVIL AERONAUTIC	ED AND OR	ALTERED. DESCRI	BE WORK ACC	OMPLISH	ED ON RE	VERSE IN AC
UNIT	MAKE	,	MODEL.	SERIAL NO.	. -	NATURE OF	WORK (Check)
a AIRFRAME	***************************************	M (As described	in item I above)	•••••••		ADOR REPAIR	X
6. POWERPLANT							
c PROPELLER	-				4.94 -		
Ł APPLIANCE	TYPE AND MANUFACTURER		/ 5	A T		- •	
CATEGORY	R the repairs and/or alterations escribed below were made. EMFTY WEIGHT (Pa	stalled i if applic	a spare component in an aircraft. A Minable.	SEVALLAR POST DE CO	e complete	d by the in	imponent is in stalling agency UL LOAD (Pounds)*
Standard	1836.4		≠ 95.94	ेगांक		1	3.6 N 3.6 U
	ITY STATEMENT (Complete and	check)		· 항문의	1 32 3		
Box 27	on A viation, Inc.		was m	icated Mechani epair Station.	lteration	e. CERTIFICAT	5 Grand
the informs June 14	nat the repair and/or alteratic ts hereto have been made in a atton furnished herein is true s a. 1956 ir and/or alteration completed)	ecordance with	n the requirements of	Part 19 of the edge.	J. S. Cigi	l Air Regula	the reverse or stions and that
	FOR RETURN TO SERVICE	(Check and come	lete appropriate #ems\	(Signature of aut	normed indiv		
Pursuant to trator and	the authority specified below	ignee Ma ation	nufacturer Car pair Station Oth	inspected in the	ent of Trai		

(CAA designation number)

Regres KQ ASDO 17

INSTRUCTIONS

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DESCRIPTION OF WORK ACCOMPLISHED.	وبالأبراعات وبالمراجسين والصفارية ويتباكيهم وأكبيل بالكويلار أأراب	
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stalled Brittain Aircraft Co. Navion wing root fa	airing kit according to	Brittain ins
ion manual # WF1-1.		
coraft empty weight	1826.9 + 95.6	
ng root fairing kit installed	9.5 /162	1539
	1836.4	176190.6
76190 _• 6	المعالمة المستعرف المستعرف المراجع المراجع المراجع المراجع المستعرف المراجع المراجع المراجع المراجع المراجع الم	2,02000
+ 95.94 New E.C.G.		eduak e
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그는 그 그는 나는 이 가는 전략했다. 전하는 살림하였다.	· 흥미(현생원) 제 기술을 되는 수 있습니다. - 현기(현생인 시설 교육을 되는 수 있습니다.	
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- Company of the second	State of the second	· · · · · · · · · · · · · · · · · · ·
"If additional space is needed attach additional sheets bearing aircraft nationality and registration	n mark and date work completed.	
Check block if additional sheets are attached.	المناز جالسان المناز المارات	
	54010-4	

	Form Approved. Budget Bureau No. 41-R041.5.
U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION	INSTRUCTIONS
APPLICATION FOR AIRWORTHINESS CERTIF AND/OR ANNUAL INSPECTION OF AN AIRC	FICATE Please print or type. Submit this form to the
1. TYPE OF APPLICATION (Check which)	
a. ORIGINAL ISSUANCE OF CERTIFICATE	d RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
b. Z ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE	. MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
C. AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE	- 보 고 생활하다. 생활하는 12차 시간 시간 시간 시간 12차 등록 11 - 12일 - 12 - 12 - 12 - 12 - 12 - 12 -
2. AIRWORTHINESS CLASSIFICATION (Check appropriate terms) It is requested that the Certificate of Airworthiness be issued worthiness classification(s):	(i)) sued to permit operation of the aircraft in the following air-
a. ☑ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGO b. ☐ LIMITED (SEE CAR 9)	ORIES)
e. RESTRICTED (SEE CAR 5) (Check the restricted special purpose operation(s) to be conducted)	
AGRICULTURAL AND PEST CONTROL	☐ PATROLLING
AERIAL ADVERTISING	FOREST AND WILDLIFE CONSERVATION
☐ AERIAL SURVEYING	☐ WEATHER CONTROL
GLIDER TOWING	OTHER
d. ☐ EXPERIMENTAL	[마른의] 그들은 사람들들들이 모르게 그렇게 되었다.
(Check the type of experimental operation(s) to be conducted)	그들은 나는 이렇게 하면 하다면 들어 돼요. 그리는 그
RESEARCH AND DEVELOPMENT	RACING
AMATEUR-BUILT	EXHIBITION
DEMONSTRATION	☐ OTHER
3. AIRCRAFT IDENTIFICATION (Complete all items)	<u>na antigori na Malanga kana ang Pandangang ang ang pangangan ang Andra Anggangan ang ang ang ang ang ang ang a</u> Tanggangganggangganggangganggangganggang
a. AIRCRAFT MAKE b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
Ryan	vion Nav-li-1li72
d, ENGINE MAKE	e. ENGINE MODEL
Continental	T 10F
4. AIRCRAFT REGISTRATION INFORMATION (Complete all ties	E-185-3
	b. FERMAMENT MAILING ADDRESS c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
그 그는 그 본부가 그렇게 그렇게 되었다. 하지만 나는 이기 없이 나	
Cassens Transport	Hamel, Illinois N-4472K
그 일당하면서 병장들이 뭐 보았는데 그 모르는데	
5. AIRCRAFT OWNER'S CERTIFICATION (Check and complete applies of the complete applies of the complete applies of the complete applies of the complete applies and complete applies applies and applies of 502 and when operated displays the following evidence of the complete applies applie	is agent) of the aircraft identified in Item 3 above which is equired by the Regulations of the Administrator, Part 501 of registration:
■ CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE □ APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FOR	
b. APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FORM W-300. ON C. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED	
b. ☐ APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FOR	
b. APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FOR W-300.00 C. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED Tin order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the United States, as defined by Section 1 (13) of the United States, as defined by Section 1 (13) of the United States, as defined by Section 1 (13) of the United States.	RM ACA-SOO, PART A FORWARDED TO CAA AIRCRAFT RECORDS BRANCH,
b. APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FORM W-300.00 c. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED "In order to be eligible for registration an alreast must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1933, as amended. ATTACHMENTS (Check state)	RM ACA-SOO, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH,
b. APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FOR W-300 ON c. Dealer's Registration Certificate. Form ACA-1707. DATED "In order to be eligible for registration an aircraft must be owned by a cliter of the United States, as defined by Section 1 (13) of the Civil Aconsanties Act of 1928, as amended. ATTACHMENTS (Check which)	RM ACA-SOO, PART A FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, PART A FORWARD TO CAA AIRCRAFT RECORDS BRANCH, PART A FORWARD TO CAA AIRCRAFT AIRCR
b. APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B). FOR W-300 ON c. Dealer's Registration Certificate. Form ACA-1707. DATED "In order to be eligible for registration an aircraft must be owned by a clitten of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1928, as amended. ATTACHMENTS (Check which) ACA-319 WEIGHT AND BALANCE REPORT ACA-337 DATA, DRAWINGS, ETC	RM ACA-SOO, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH,

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and the control of th	ARTMENT OF COMME		
AIRCRAFI (To be completed by a CA)	INSPECTION RE		
The aircraft described in Item 3 on the reverse of the (Check and complete applicable terms) 1. AIRCRAFT AND ENGINE CERTIFICATION BASE. A PARCHART SPECIFICATION NO. A 782 b. AIRCRAFT LISTING PAGE NO. c. AIRWORTHINESS DIRECTIVE SUMMARY 1978 d. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATION PART 8 (MODIFI	THROUGH SHEET REVISION N	io. 28	m to the following:
2. AIRCRAFT AND ENGINE OPERATING RECORD a. AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINT b. COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRE c. AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BE d. ENGINE RECORDS INDICATE THE FOLLOWING OPERAT SERIAL NO. SERIAL NO. SERIAL NO. SERIAL NO.	TENANCE HISTORY ELTIVES RECORDED EEN OPERATED A TOTAL OF		Re Ara: 7
3. PREVIOUS INSPECTION RECORD (INSPECTIO LAST AIRWORTHINESS INSPECTION CONDUCTED 3= BY AIRCRAFT MANUFACTURER BY APPROVED REPAIR STATION, CERTIFICATE BY MECHANIC, CERTIFICATE NO. 1. EV D. PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA	24=55 (mare) No. ritt A&P 1	159699	55. Nd 81 4
4: AIRWORTHINESS DOCUMENTS ISSUED OR RI a. ☐ OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED b. ☐ CURRENT OPERATION LIMITATIONS, FORM ACA-309, WAS c. ☑ CURRENT APPROVED AIRPLANCE INFORMATION IS A d. ☑ CURRENT WEIGHT AND BALANCE INFORMATION IS A c. ☑ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCI f. ☑ CERTIFICATE OF AIRWORTHINESS, FORM ACA-1382, IS g. ☑ PREVIOUS FORM ACA-1382 WAS ISSUED TO EXPIRE BY ☑ ISTON A VIATION INFORMATION (NAME OF ISSUED REPRESENTATIVE)	D (COPY ATTACHED) S AVAILABLE IN AIRCRAFT VAILABLE IN AIRCRAFT VAILABLE IN AIRCRAFT RAFT RECORDS SUIED TO EXPIRE 3-2 Feb. 16, 195 7.1ha (CARE) Address	h=56 5 GAIE vec repair st	ation #3735
5. CAA APPROVED REPAIR STATION CERTIFICATION The aircraft described on the reverse has been No by CAR 52 and was found AIRWORTHY UNAIRWORTHY	inspected under the au	all a said a secondario della secondario della secondario della secondario della secondario della secondario d Secondario della secondario della secondario della secondario della secondario della secondario della secondario	leated repair station
6. CAA REPRESENTATIVE CERTIFICATION I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REV DESIGNETS SIGNATURE LONG MULTIMOS	DESIGNATION NO.	IRWORTHY UNAIRWORE (Check appropriate flam) DATE 3 2 - J J	IIIV
AVIATION SAFETY AGENT'S SIGNATURE ATTACHMENT	CAA DESIGNATION NO.	DATE \$-31-55	☐-ACCEPTED ☐ REINSPECTED ☐ SPOT CHECKED
[18] 일반남자 [18] 전 시민은 아래는 발표를 하는 하는 하는 사람이 얼마나 그 하나요? 나는 얼마라 하는 것			agel and a second of the second of the contract of the second of the sec

U. S. SONERHHERMY PRINTING OFFICE 18 60837

Form ACA-365a (11-51)

		. [w 240
		CIVIL AERO	RTMENT OF COM	RATION	Form approved. Budget Bureau No. 41-R0834.
MAJOR	REPAIR AND ALTERATI		AIRFRAME, PUI	SERIAL NO.	NATIONALITY AND REGISTRATION MARK
	NAME_(First, middle, last)	a francisco mark sett		RESS (Street and number, city,	zone and State)
2. OWNER	Cassens Transport	Co.		Hamel, Ill	
3. COMPLETI	E ONLY FOR UNIT REPAIR E WITH CIVIL AERCNAUTIC	ED AND OR	ALTERED. DESCR	IBE WORK ACCOMP	LISHED ON REVERSE IN AC-
UNIT	MAKE		MODEL	eserial no.	NATURE OF WORK (Check)
UNII	MANE				MAIOR REPAIR NOLAM
a. AIRFRAME	•••••••••••	M. (As described	in item I above) \$000	**************	**************************************
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c. PROPELLER					
	TYPE AND MANUFACTURER				
A APPLIANCE		₩.		151116	4
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		J .1 b)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Con The Contract of the Contra	25 cm 15
a. AGENCY'S NAM	HTY STATEMENT (Complete and E AND ADDRESS	a checa)	6. KIND OF AGENCY		c. CERTIFICATE NO.
Box 271	Aviation ton, Ill.		☐ Foreign Cer E Certificated ☐ Manufactur ☐ (Ch	icated Mechanic. tificated Mechanic. Repair Station. er. eck if repair or altera made under delegation procedures.)	tion op-
attachmen	its hereto have been made in a lation furnished herein is true	eccordance wit	the best of my kno	CI Part 18 of the U.S.	and described on the reverse or Civil Air Regulations and that
(Date rep	air and/or alteration completed)			(Signature of authorize	d individual)
Pursuant trator and	is ·	w the unit identification II Re	anufacturer [(nner prescribed by the Adminis-
	of approval or rejection)			re of authorized individual; ti	
	MPLETED ONLY BY CAA PI	ERSONNEL		··········	
	led for engineering comment	4.5	ttached memorandi	ım ☐ Spot Cl	Reg. 3 Ko

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INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning

B. DESCRIPTION OF WORK ACCOMPLISHED.

Replaced rear fuselage bulkhead.

R. flap: replaced inbd. nose and main rib and upper and lower 18" inbd. segment skin.

L. flap: replaced inbd. rib , upper and lower 18" inbd. segment skin, inbd. hinge assy, center and outbd. hinge wing segment only.

Replace nose wheel and hub cap.

Replace 1. exhaust stack.

Propeller overhauled by Hattsell Propeller Co.

All repairs according to Ryen structural repair instructions.

RECEIVED JUN 30 10 12 AM 153 DMIN. & RECORDS BRANCI

"If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

-- B. H. GOVERNMENT PRINTING OFFICE -- 18-54010-

		•	CIVIL AERO	ARTMENT OF COM	MERCE RATION	Porm s Brage	pproved. Bureau No. 41-R052.4.
OLAM	R REPA	IR AND ALTERATI		AIRFRAME, PO	VERPLANT, PROPELI	2.202	PPLIANCE)
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CORDANG	CE WIT	I CIVIL AERONAUTIO	S MANUAL I	8.			
UNIT	'	MAKE		MODEL	SERIAL NO.	MAJOR REPA	E OF WORK (Check)
						MAJOR REPA	IN MAJOR ALTERATION
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POWERPLANT	r 1	-				: '	
. PROPELLER							
* .		TYPE AND MANUFACTURER					
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*AFTI	ER the re	pairs and/or alterations below were made.	case of	a spare component.	it will not be completed	l until such	component is in-
•	-certivea	·/	stalled i	n an aircraft. At t	his time, it will be compl	erea by the	: instaning agency,
CATEGORY	7	. EMPTY WEIGHT (P			OF GRAVITY (Inches from datum)*	' '	USEFUL LOAD (Pounds)*
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		FATEMENT (Complete and	i check)				1
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				₩ U. S. Certifi	cated Mechanic.		
		. Evritt			thicated Mechanic.	A &c	P 1159699
Zelair	Cor	poration			Repair Station.	1 .	
Bryan-	Defi	ance, Memorial	. Airport			_	·
Befian	ce,	Jhio		Was	eck if repair or alteration made under delegation of	n "	and
				tion	procedures.)		<u> </u>
attachmen	ats here	repair and/or alterati to have been made in a urnished herein is true	ccordance with	h the requirements	under item 3 above and of Part 18 of the U.S.C wledge.	l described ivil Air Re	on the reverse or gulations and that
(Date rep	air and/or	alteration completed)			(Signature of authorized in	dividual)	
	to the a	RETURN TO SERVICE			s inspected in the manne	er prescribe	d by the Adminis-
		D BY CAA Des	signee	anufacturer [] C	anadian Department of T	ransport I	aspector of Aircraft
	LIECTE	D UAA Avi Safety Ag	uation ∐ Re gent	pair station 🔲 U	ther (Specify)		
☐ RE				4	11/2		# ·
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March (Date		 .	RSONNEL.	- January	e or authorized individual, store o	or identificatio	n number)
March (Date	omple ded for	al or rejection) ED ONLY BY CAA PEngineering comment	***	itached memorandu			į
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INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.—

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8, DESCRIPTION OF WORK ACCOMPLISHED.

Removed 8428 prop blades and installed 8433 blades, overhaul by Hartzell. Installed rear mounting step as per Grescent Gity Aviation instructions. Replaced following factory parts 1711, 1725, 1726, 1727, 1729, 1728, 1730, 1731, 1732, 1733, 1734, 2015, 2817, 2823, 2825, 2827, 2828, installed doubler rt. side nose wheel well.

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Fotal KGM	17468		or 6	Empty C.G.	
Total WGT	182	26.9	75 . C	empty C.G.	
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[&]quot;If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed

U. S. DEPARTMENT OF COMMERCE	Form Approved. Budget Bureau No. 41-ROMLS.
CIVIL AERONAUTICS ADMINISTRATION	INSTRUCTIONS
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APPLICATION FOR AIRWORTHINESS CERTIFICATI	Civil Aeronautics Administration Aviation Salet
AND/OR ANNUAL INSPECTION OF AN AIRCRAFT	Civil Meternative Mannagariation inflation party
AND/OR RICHERD INST BOLION OF THE HEAD	Field Representative.
. TYPE OF APPLICATION (Check which)	
	CERTIFICATION UNDER THE PROVISIONS OF CAR 8
ANNUAL INSPECTION FOR RENEW-2. OF CERTIFICATE	ULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
G. AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE L	
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2. AIRWORTHINESS CLASSIFICATION (Cuck eppropriate scale)) It is requested that the Certificate of Airworthiness be issued to partition worthiness classification(s):	permit operation of the aircraft in the following air-
* M STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES)	
LIMITED (SEE CAR 9)	병원 이 바로 보고 있는 하는 것이 하는 것이 없는 것이 없다.
€ RESTRICTED (SEE CAR B)	
(Check the restricted special purpose operation(s) to be conducted)	
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AERIAL SURVEYING	EATHER CONTROL
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d. T EXPERIMENTAL	18281
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U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION AIRCRAFT INSPECTION REPORT
(To be completed by a CAA representative or approved repair station)
The aircraft described in Item 3 on the reverse of this ferm has been inspected and found to conform to the following: (Chect and complete applicable form) 1. ALBCRAFT AND ENGINE CERTIFICATION BASIS 26 3. AIRCRAFT SPECIFICATION NO. THROUGH SHEET REVISION NO. 26 AIRWORTHINESS DIRECTIVE SUMMARY 3. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)
2. AIRCRAFT AND ENGINE OPERATING RECORDS L AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY b. COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED c. AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 687:15 HOURS d. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION: SERIAL NO. 5054—D—M TOTAL HOURS 509:45 SERIAL NO. TOTAL HOURS SERIAL NO. TOTAL HOURS
SERIAL NO. TOTAL HOURS 5
LAST AIRWORTHINESS INSPECTION CONDUCTED Feb. 16, 1964 BY AIRCRAFT MANUFACTURER BY APPROVED REPAIR STATION, CERTIFICATE NO. 3735 BY MECHANIC, CERTIFICATE NO. METERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER
4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED 2. ☐ OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED) 3. ☐ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT 4. ☑ CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT 4. ☑ CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT 5. ☑ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS Feb. 16, 1955 6. ☑ CERTIFICATE OF AIRWORTHINESS, FORM ACA-1582, ISSUED TO EXPIRE 6. ☑ PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 6. ☑ PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 6. ☑ ACK 21 kg 7. ☐ CANTED 6. ☐ ACK 21 kg 7. ☐ CANTED 7. ☐ CANTED
(NAME OF ISSUING REPRESENTATIVE) (DESIGNATION NO.) 3. CAA APPROVED REPAIR STATION CERTIFICATION
The aircraft described on the reverse has been inspected under the authority accorded certificated repair station No. 5735 by CAR 52 and was found to be? B AIRWORTHY Jack 21kg Feb. 16, 1954 (NETAIR STATION AUTHORIZED SECRATURE) (DATE)
6. CAA REPRESENTATIVE CERTIFICATION 1 HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND POUND IT AIRWORTHY (Cact appropriate lien)
DESIGNEE'S SIGNATURE DESIGNATION NO. DATE
AVIATION SAFETY AGENTS SIGNATURE CAA DESIGNATION NO. DATE ACCEPTED REINSPECTED SPOT CHECKED
소마스프랑 교통 교통 이번 등록하고 있는데 한 글로만 하지 않고 있었다. 이 글로만 바다 내고 그래요? 그리고 그 그리고 있는데 그리고 있다.

Form ACA-805a (11-51)

45				CIVIL AE	PARTMENT OF C	NISTRA	TION		orm approve adget Bures	
MAJOI	REP MAKE		LTERATI	ON FORM	MODEL.	POWE	RPLANT, PROPE	NATH	HALITY AND P	REGISTRATION
1. America	NAME (Ryan First, middle, last)	<u> </u>		Navion	ADDRESS	HAV-4-1478 (Street and number, city,		4728 Bt	en dard
2. OWNER	-	Cassen Tr	ensport	Co.		Re	mel, Ill.	1,000		
3. COMPLET	E WI	Y FOR UNIT	REPAIR	ES MANUAL	R ALTERED. DE	SCRIB	E WORK ACCOMP	ISHED	ON REVE	RSE IN
UNIT		MAKE			MODEL		SERIAL NO.		ATURE OF W	ORK (Clarck)
a. AIRFRAME	1	***********	••••••	• (As describ	ed in item I above) s	•••••				X C
& POWERPLANT	1	i i i i i i i i i i i i i i i i i i i		Tagina.						
c. PROPELLER	1									
a. APPLIANCE	+	TYPE AND MANUF	ACTURER			•			-,,-	
4. AIRCRAF	T WEI	GHT AND BAI repairs and or alt d below were ma	LANCE D	case c	of a spare compor	ent, it	by repair or alters will not be complet time, it will be com	ed until	such com	wever, in ponent is illing ager
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Standard-		1807.9			≠ 95	.2			942.1 542.1	
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a. AGENCY'S NAM	AE AND A	IDDRESS			5. KIND OF AGE		ed Mechanic.	- 6. 1	CERTIFICATE I	
Walston Box 271		etion					cated Mechanic.		3 7 35	
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Pursuant trator an	to the	authority spec	ified belo	w the unit ic		3 was ii	nspected in the man			
□ RE	PROV	ĒD } BY { [iation 🟝	Repair Station	Othe	er (Specify).		ne mapec	v Ant
		1954				Sika	. Chief Insp.	ia or (de=+1	Scietion norm	mr)
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	ded for	engineering	omment		attached memors		Spot Ch	ecked		sie)
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garta kalendari

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Removed Narco VHP radio and omni. equipment, installed according to form 337 dated Dec. 26, 1950.

Installed Narco VTR-1 omnigator.	
Aircraft empty weight 1810.5 \\ \frac{495.2}{}	172360
Transmitter, Rec., coarse selector and	
L-R meter removed 478	546
Omni converter removed 3.5 470	245
VHF power supply removed 7 460	420
Harco transmitter Rec. & case installed 7.4 472	532.8
* V129-2 Power Unit # 7.1 #56	397.6
Audo cable and jacks	28.8





172108.2

"If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed

Check-block if additional sheets are attached.

W 240

	Ryan	Sign Stamon 19 21 - Sign	Havion /	BAV-4-1478	NATIONALITY S	REGISTRATE
2. OWNER	Cassens Transpo	1349-916 (d.) 7861 86 -344-	ADD	RESS (Stired and number, city, 20	me and State)	
3. COMPLET	TE ONLY FOR UNIT REPA	LIRED AND OR	ALTERED. DESCR	IBE WORK ACCOMPL	SHED ON REV	ERSE IN
UNIT	MAKE		MODEL	SERIAL NO.	NATURE OF MAJOR REPAIR	WORK (Check
a. AIRFRAME	*************	PPPA (As described	i in item I above) ####	••••••	MAJOR REPAIR	MAJOR ALTE
6. POWERPLANT						
c. PROPELLER						
∡ APPLIANCE	TYPE AND MANUFACTURER					• .
CATEGORY	ER the repairs and/or alterations lescribed below were made. EMPTY WEIGHT	if appli	in an aircraft. At t	it will not be completed his time, it will be comp of GRAVITY (Inches from datum)	leted by the inst	alling age
Standard	1810.5		≠ 95.2			39.5 N 29.5 U
5. CONFORM 2. AGENCY'S NAM	AITY STATEMENT (Complete and Address	and check)	b. KIND OF AGENCY		c. CERTIFICATE	NO.
Box 271	Aviation ton, Ill.		Certificated Manufacture (Che	ificated Mechanic. Repair Station.	3735	~~
	hat the repair and/or alterats hereto have been made in ation furnished herein is true. 3. 1954	ation made to the accordance with a accordance with a and correct to	he unit(s) identified h the requirements o the best of my know	leage Lar / 1	described on t	he reversions and
I certify the attachmen the inform				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dividual)	
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america (1977)

1810.5

INSTRUCTIONS

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This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

5.	DESCRIPT	TON OF V	VORK ACCO	MPLISHED	>.•		

Installed flare kit item 404 AAB 16 lbs. at 4 188"

Airer	ert emp	ty wal	ght	91.755	2	 13	1794.5		f94.4	*	169401
Flare	instal	lation			, 1999 \$1495		16	+	188	and the	3008
		(- عالمسعد د- ارز			1810.5				172408

END -

172408 = # 95.2 New E.C.C.



"If additional space is needed attach additional sheets bearing sireralt nationality and registration mark and date work completed,

Check block if additional sheets are attached.

. 5. **:** ₹.

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COMPLETE	E ONLY FOR UN	IT REPAIRE	D AND	OR ALT	ERED. DES	CRIBE WORK A	CCOMPLI	HED ON I	OF WORK (Check)
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PROPELLER							•		2. 9 2.0 2.00
APPLIANCE	TYPE AND MA	NUFACTURER		ing ing ing National		31116			
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	MITY STATEMENT ME AND ADDRESS	NT (Complete an	d check)		6. KIND OF AGE			c. CERTI	FICATE NO.
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Falst	ME AND ADDRESS ton Aviation 271	<u> </u>	d check)		☐ U. S. Co ☐ Foreign E Certific ☐ Manufa	ertificated Mecha Certificated Me ated Repair Stat acturer. (Check if repair was made under	chanic. ion. or alterat	ion	
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INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/cr alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes:

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning ts preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Installed Palo Alto Airport stabiliser angle of incidence modification kit, approved by 6th Region CAA July 20, 1352, GAA approval T.I.A. \$1A741-6. See Flight Manual, revised Page 1 and 2 for operation limitations.

Installation accomplished according to Palo Alto Airport, Inc. "Instructions for Modifying ! Navion Tail Assemblies."

Weight change negligible.

S BRAHGH

disectivate Name (

JG (13 3 38

*II additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

APPLICATION FOR AIRWORTHINESS CERTIFICATE

Please print or type. Submit this form to the

AND/OR ANNUAL INSPECTION OF AN AIR	CKAFT	Field Representative.	ninistration Aviation Sa
TYPE OF APPLICATION (Check which)			
E CONIGINAL ISSUANCE OF CERTIFICATE	d. 🗌 RECER	TIFICATION UNDER THE PR	OVISIONS OF CAR B
b. T ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE	e. 🗌 MULTI	PLE CERTIFICATE UNDER T	HE PROVISIONS OF CAR &
c. AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE	£ □		이 생기를 하는 것으로
AIRWORTHINESS CLASSIFICATION (Check appropriate tem) It is requested that the Certificate of Airworthiness be is worthiness classification(s):		uit operation of the airc	raft in the following all
* STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATES	ORIES)		
L IMITED (SEE CAR 9)			
c. RESTRICTED (SEE CAR 8)			
(Check the restricted special purpose operation(s) to be conducted)			
AGRICULTURAL AND PEST CONTROL	☐ PATRO	LLING	
AERIAL ADVERTISING	☐ FORES	T AND WILDLIFE CONSERVA	TION
☐ AERIAL SURVEYING	☐ WEATH	ER CONTROL	일 마음 다른 프 <u>리프</u> 트
GLIDER TOWING	☐ OTHER		
d. TEXPERIMENTAL			
(Check the type of experimental operation(s) to be conducted)	4 74 14		보면 경험 경우 하나요
RESEARCH AND DEVELOPMENT	RACIN		
AMATEUR-BUILT	EXHIBI		
☐ DEMONSTRATION.	☐ OTHER		하면 네일 회사적의
AIRCRAFT IDENTIFICATION (Complete all items)			<u>in digeration de transpire de la company de</u>
a. AIRCRAFT MAKE . b. AIRCRAFT MODEL		c. AIRCRAFT	SERIAL NO.
Navion		Nev-4-1	A72
<u> </u>		1364-7-1	-14
d. Engine make	e. ENGINE M	ODEL	
Continental	ם רקו	5-3	뭐 아름 보다라야다.
AIRCRAFT REGISTRATION INFORMATION (Complete all			apik di dikupi di kabupi kestu.
a. REGISTERED OWNER'S FULL NAME	b. PERMANEN	IT MAILING ADDRESS	c. AIRCRAFT NATIONALIT
	300		
Robert B. Lynn	Elfgen	Bldg.	- 4472K
	209 Hen	ry Street	
电电子设置 化氯甲基酚 化二氯甲基酚 医电影 医电影 医电影	1 23+00	Illinois	
	1 44 0000		
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	eppropriate item)		n Item 3 above which in Administrator, Part 50
I hereby certify that I am the registered owner (or h registered* with the Civil Aeronautics Administration as r or 502 and when operated displays the following evidence	oppopiete item) is agent) of required by to of registratio		n Item 3 above which i Administrator, Part 50
I hereby certify that I am the registered owner (or hereistered* with the Civil Aeronautics Administration as 1 or 502 and when operated displays the following evidence of CERTIFICATE OF REGISTRATION. FORM ACA-500 (PART B). TO APPLICATION FOR REGISTRATION. FORM ACA-500 (PART B).	oppropriate tiem) is agent) of required by to of registration E OF ISSUE	the aircraft identified in the Regulations of the in:	
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U. S.	DEPARTMENT	OF COMMERCE
CIVIL	. AERONAUTICS	ADMINISTRATION

	representative or a		
ne aircraft described in Item 3 on the reverse of thi	is form has been inspe	cted and found to	conform to the following
AIRCRAFT AND ENGINE CERTIFICATION BAS	IS		
a. E AIRCRAFT SPECIFICATION NO. 782		NO. 18	
b. AIRCRAFT LISTING PAGE NO.			
a K AIRWORTHINESS DIRECTIVE SUMMARY 1952	THROUGH CARD NO	27	
d. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT		~ 	
d CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT	(IFICATE)		
AIRCRAFT AND ENGINE OPERATING RECORD	95		
AIRCRAFT NEW-NO PREVIOUS OPERATION OR MAINTE	ENANCE HISTORY		
b. Z COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRE	CTIVES RECORDED	488.35	
E AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BE		473:15	HOURS
	and the control of th		
d. E ENGINE RECORDS INDICATE THE FOLLOWING OPERATI		DE.4E	
SERIAL NO. 5064D	TOTAL HOURS3	<u> </u>	
SERIAL NO.	TOTAL HOURS		[하는 555년 호텔보기
SERIAL NO.	TOTAL HOURS		네 그는 하는 하는 하는데
SERIAL NO.	TOTAL HOURS	<u> </u>	
PREVIOUS INSPECTION RECORD (INSPECTION	N RECORDED ON FO	RM ACA-319)	
. LAST AIRWORTHINESS INSPECTION CONDUCTED Dec.	12, 1952		
BY AIRCRAFT MANUFACTURER	(DATE)		
- □ BY APPROVED REPAIR STATION, CERTIFICATE N	in		्ट्रम
E BY MECHANIC, CERTIFICATE NO5500	the second secon		_∃∺ ω
b. T PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-	319. WAS RETURNED TO OV	rner .	D 3 41 P RECEIVED
AIRWORTHINESS DOCUMENTS ISSUED OR RE	VIEWED		. ∃
. OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED			연구 기가 등록 하다. (1)
- 1947 第二 たと April 2014 - 1955			
b. CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS			그렇게 나가 아직 회로 맞지 않다.
c. X CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AV			나는 보다 한 번 화물을 하였다.
d. T CURRENT WEIGHT AND BALANCE INFORMATION IS AVA	AILABLE IN AIRCRAFT		
e. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCR	AFT RECORDS Dec	. 12. 1953	
f. W CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISS	200		<u> 18.</u> grafia a ga alaa a ah
& PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE		(DATE)	교통 등이 그렇게 함께
BY W. M. Gould		351	
(HAME OF ISSUING REPRESENTATIVE)		STATION NO.)	= 어린 아이 아니라 그림
CAA APPROVED REPAIR STATION CERTIFICA			
The aircraft described on the reverse has been		numority accordes	u ceruncated repair stati
No by CAR 52 and was found	to be:		
AIRWORTHY			
UNAIRWORTHY			
	(REPAIR STATION AUTHORIZED	SIGRATURE)	(DATE)
CAA REPRESENTATIVE CERTIFICATION			
			<u>. 11. julija</u> - Rekebaliji
I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVE	RSE AND FOUND IT	AIRWORTHY UN (Check appropriate	AIRWOKIHT dem)
	I percuamon no	DATE	
DESIGNEE'S SIGNATURE	DESIGNATION NO.	UAIL	医眼球透明 化自己 医角色的
Jack Zika	3409	Dec. 12.	1952
AVIATION SAFETY AGENT'S SIGNATURE	CAA DESIGNATION NO.	DATE	ACCEPTED
	 1 (4) (3) (4) (2) (4) (4) 		REINSPECTED
	17 ~ 4	12-19-	
11/2/20 7/20 1/91/	1 6-6 70 10-11		
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B. S. COVERNBERT PRINTING OFFICE 15-50537-5

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Form ACA-305a (11-61)

I. AIRCRAFT N	Byan.	MC	Navion		RIAL NO. NV-4-1478			o registration ma (Standard)
2. OWNER	Robert B. Lynn,			ADDRESS (S	red and number, cky, a Building, Alton.	209	Henry	
COMPLETE	ONLY FOR UNIT REPAIL	REP AND AR	ALTERED. DES	CRIBE W				VERSE IN AC
UNIT	MAKE		MODEL		SERIAL NO.		NATURE OF	WORK (Check)
AIRFRAME	***************************************	PPA (As described)	in item I abore) 🕫					x
. POWERPLANT						T		
. PROPELLER							• •	1.5
. APPLIANCE	TYPE AND MANUFACTURER							
			\$6.24°			2		
. AIRCRAFT *AFTER des	WEIGHT AND BALANCE D the repairs and/or alterations scribed below were made.	case of a	m must be compared spare componer an aircraft. A able.	nt, it will	not be complet	ted u	atil such co	lowever, in the mponent is in stalling agency
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		t t					0==	.5 Normal
tandard	1794.5		f94.4		ing part in a second			.5 Utility
	1794.5 TY STATEMENT (Complete as	nd check)	/94.4	· ·	****			
. CONFORMI	TY STATEMENT (Complete as	nd check)	#94.4	γ	Tangan			.5 Utility
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Walston A	TY STATEMENT (Complete as	nd check)	b. KIND OF AGENC	tificated lertificate ed Repair urer.	Mechanic. d Mechanic. r Station.		555	.5 Utilit;
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INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Installed Remote Indicating Compase as follows: Indicator 1 lb. at \$\frac{1}{71}^n\$, Inverter 2 lb. at \$\frac{1}{158}^n\$, and Transmitter 3 lbs. at \$\frac{1}{166}^n\$.

Installed Attitude Gyro, Suction Gauge, Suction Regulator, and 4° Venturri as follows:

Venturri 1 lb. at \$\frac{1}{67}^n\$, Suction Regulator .5 lb. at \$\frac{1}{69}^n\$. Suction Gauge .5 lbs. at \$\frac{1}{66}\$, \$\frac{1}{6}\$ tittude Gyro 3 lbs. at \$\frac{1}{71}^n\$.

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R.I.C. Inverter installed 2 /158 316	1111-
R.I.C. Transmitter installed 3 /166	
4" Venturri installed 1 67	47.00
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Attutude Gyro installed 3 /71 213	

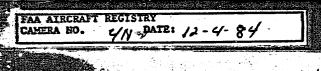
1794.5 169416.5 = #94.4 New E.C.G.

APR. Z. 2 16 PM "53 ADMIN. A. RECONDS DRANCH

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional spects are attached.

Form ACA-\$05	EPARTMENT OF COMMERCE	Porm Approved
	- AERONAUTICS ADMINISTRATION	10t Buresu No. 41-R041.4
APPLICATION FOR AIRWO AND/OR ANNUAL INSPEC		INSTRUCTIONS Please submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative
I. APPLICATION (CHECK WHETHER		
☐ ORIGINAL AIRWORTHINESS CERTIFIC ANNUAL INSPECTION		ESTRICTED MITED OTHER
AL MANUAL INSPECTION	AIRCRAFT	- CINER
3. MAKE	SAMPARIA	5. NATIONALITY AND REGISTRATION MARK
Ryan		下山172五
4. MODEL Navion A		6. MANUFACTURER'S SERIAL NO.
11212011 14 72	ENGINE	8-4-14(2
7. MAKE	8. MODEL	
Continental		E-155-3
9. OWNER'S NAME	10. (GIVE)	ADDRESS ONLY IF IT HAS BEEN CHANGED FROM THAT ON YOUR CERTIFICATE OF REGISTRATION, FORM
Rhodes & Rodier Com	pany ACA-50	a)
11. ATTACHMENTS (CHECK WHICH)	12. I CERTIFY that th	e above statements are true.
2 ACA-319 ☐ WEIGHT AND BALANCE	CE REPORT	A. In Saild
☐ ACA-337 ☐ DATA, DRAWINGS, ET		(OWNER OR AUTHORIZED AGENT)
☐ ACA-317 ☐ UNAPPROVED DEVIA		
MACA-317 MARAPROVED BEVIA	(DATE)	2 Agent /
Form ACA-605a		
(11-49)	AIRCRAFT INSPECTION	
1	(To be campleted by CAA repre	
13. It has been determined that the i	aircraft described in 305 above is in	conformity with the following:
a_MAIRCRAFT SPECIFICATION NO.	782 THROUGH SHEET REVISION	75
b. AIRCRAFT LISTING PAGE NO.	INCOUGH SHEET REVISION	NO
C. MAIRWORTHINESS DIRECTIVE SUMMAR	THROUGH CARD NO	<u>, 29 </u>
d. OPERATIONS LIMITATIONS FORM ACA		
■ OPERATIONS LIMITATIONS FORM ACA		
f. M CURRENT, APPROVED, AIRPLANE FLIG		
h. E CERTIFICATE OF AIRWORTHINESS FOI	T MARKINGS, AND PLACARDS HAVE BEEN CON	APLIED WITH,
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M AIRWORTHY	SIENATURE 16.	DESIGNATION NO. 17. DATE
	AFERS ASEN S SIGNATURE 19.	5351 Jan. 9,-1952
	No.	☐ REINSPECTED 20. DATE
21. REASON FOR DISAPPROVAL,	OR REMARKS (INDICATE IF YOU HAVE USED	
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AND 8 46 MM 52 SECTION RECEIVED

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Form ACA-837 (11-7-46)

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

INSTRUCTIONS.—This form must be filled ou	ıt in	duplicate	each	time a	major	repair	and/or	alteration :	is made o	fana	ircraft.
propeller, engine, or instrument, as follows:		- *									•

- (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval.

subm (C) For a	uit as described in (A) above. Spare Component.—Conved, retain both copies of il	an Aircraft.—Complete items 1, 2 oplete items 3 (b, c, or d), 5, and 6, his form with the component until i Ming agency which will then forwar	and submit to CAA representation on an aircraft.	esentative for an	mroval When
1. AIRCRAFT	Ryan	MODEL	SERIAL NO.		FICATION MARK K (Standare
2. OWNER	Rhodes & Rodier	Co. Springfield			
3. FILL IN II	NFORMATION IN THIS ITE	M ONLY FOR THE UNIT REPAIR	ED AND OR ALTERED		
TINU	MAKE	MODEL	SERIAL NO.	NATURE OF	WORK (Check)
. AIRCRAFT		♥♦♦ (As described in item 1 above) >>>>			/•
b. PROPELLER ELADE OR HUS	- 1				
c. ENGINE					
d. INSTRUMENT	TYPE AND MANUFACTURES		•	•	
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Tran	Signature of supervising mechanic)		unber and rating)	12/26	<u>5/50</u>
APPROVE	SIGNATURE OF D	BE COMPLETED BY CAA REP	NO.	DATE 12/26/	⁷ 50
FORWARDED ENGINEERIN APPROVAL	FOR SIGNATURE OF IN		ACCEPTED	DATE	

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APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT APPLICATION (Check which) ORDINAL AIRWORTHINESS CERTIFICATE APPLICATION (Check which) ORDINAL AIRWORTHINESS CERTIFICATE ARROPT AMAGE ANNUAL INSPECTION AIRCRAFT MAKE RYAEI AGT ORBUITCAIL OC. MANUFACTURER'S SENIAL, NO. NAV-4-1472 ENGISE ARROPT MAKE CONTINENTS CONTINENTS CONTINENTS CONTINENTS CONTINENTS CACASID DEC. 16, 1950 Agent Agent Agent Agent Agent Agent Agent Agent Agent TITLES TITLES TO be completed by a CAA inspector or a designated inspector or representative) It has been determined that the aircraft described in 36 serve is in conformity with the following: ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLETE WITH X VEST NOTES AND NO. AIRCRAFT SPECIFICATION—AIRWORTHINESS DIRECTIVE NOS), a 782, Rev 12: ADS thru 50-49 FORM AGA-152, CERTIFICATE OF AIRWORTHINESS, ISSUED AIRWORTHY DATE OF THE AGENT AND NO. AIRWORTHY DATE OF THE AGENT AND NO. ARROPTICAL MARKS (Refertive Markings) and date terms to confine the other into the confine of the into the confine of t	1.0		PARTMENT OF CIVIL AERONAUTICS AL	COMMERCE DMINISTRATION		ORM AFFROVED BUREAU No. 41-R041.2
OBJUNAL AIRWORTHINESS CERTIFICATE COPERINDRAL LIMITED OTHER	AND/OR	ANNUAL INSPEC	CTION OF AN AI	RCRAFT	Please submit this	form to the Civil Aeronautic
MAKE RYATI AETONAUTICAL CO. MANUFACTURER'S SERIAL NO. NAVION A RYATOR MANUFACTURER'S SERIAL NO. NAVION A RYATOR MANUFACTURER'S SERIAL NO. NAVION A REGISTRATION NO. NAVION A REGISTRATION NO. NAVION A REGISTRATION NO. NAVION A REPORT MANUFACTURER'S SERIAL NO. NAVION A RESISTANT NO. REGISTRATION NO. NAVION A REPORT CONTINENTS NAME Rhodes & Rodier Company FERMANDAT ADDRESS (Stret and aumber, city, cone, and Said) Springfield, Till-trois ATTACHMENTS (Caret take) ACA-319 WHIGH AND BALANCE REPORT ACA-319 WHIGH AND BALANCE REPORT ACA-319 WHAPPROVED DEVIATION DATA, ACA-317 "UNAPPROVED DEVIATION DATA, ACA-317 "UNAPPROVED DEVIATION DATA, (DATE) ABOUT TO be completed by a CAA inapector or a designated inspector or representative) It has been determined that the alternative described in 305 above is in conformity with the following: ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLIED WITH X YES NO AIRCRAFT SPECIFICATION—AIRWORTHINESS, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE B COMPLIED WITH X YES NO AIRCRAFT SPECIFICATION—AIRWORTHINESS, ISSUED ORIGINAL MANUAL, INSTRUMENT CARL SHAPPONDA AIRCRAFE FLIGHT MANUAL IS IN THE AIRCRAFT FINDINGS AIRMORTHY CARL SHAPPONDA AIRCRAFE SIGNATURE AND NO. AIRMORTHY CARL SHAPPONDA AIRCRAFE	APPLICATION (C	heck whether)		CLASSIFICATION	34 344 4.5	
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B. S. COVERNMENT PRINTING OFFICE . 16-54326-

FAA AIRCRAFT REGISTRY
CAMERA NO. 4/N DATE: /2-4-84

MAIL ROOM-2 WASHIHETON

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DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

Budget Buresu No. 41-R042.1. Approval expires December 41, 194

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

INSTRUCTIONS.—This form must be filled	out in	duplicate e	sch time	a major	renair o	nd/or alteration		
propeller, engine, or instrument, as follows:					· cpain a	major anteracti	л в шале о	t an aircrait,

submi (C) For a	it as described in (A) above. Spare Component.—Com ved, retain both copies of the	as 1, 2, 3a, 4, 5, 6, and 7, and sut an Aircraft.—Complete items 1, plete items 3 (b, c, or d), 5, and is form with be component until ling agency which will then forward	5, and submit to CAA 1	er is applicable), resentative for a	
1. AIRCRAFT	MAKE R yan	MODEL Na Vi on	SERIAL NO.	CAN IDENT	TEXATION MARK
2. OWNER	NAME (First, middle, fast) Rhodes & Rodier	Co. Springfiel	d, Illinois		
3. FILL IN IN	FORMATION IN THIS ITEM	ONLY FOR THE UNIT REPAI	RED AND OR ALTERED		
UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF	WORK (Check)
VIRCRAFT	***************************************	(As described in item 1 above)	*************************		
b. PROPELLER BLADE OR HUB				<u> </u>	X
c. ENGINE			1.00		
d. INSTRUMENT	1YPE AND MANUFACTURER				
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F		Champaign Airpo	nois /	1.0/27/	48
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T grant their	the characteristic		*		€ bW.
F.W.	Tuthus nature of supervising mechanic)	ue and correct to the best of my A&R 121155 (Certificate m	knowledge.	10/27/4	8
	то в	E COMPLETED BY CAA REP		(Da	,.,
APPROVED REJECTED	THANK W. STA	tellers	, No.	DATE /OR /	40
FORWARDED PA ENGINEERING APPROVAL	/ -	PECTOR BALL	3434 EACCEPTED REINSPECTE	10/27/	- 4 V
		D. S. GOVERNMENT PRINTING DIFFICE 16	-\$4010-1	01/0 - 28	

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Weight & Balance Data

ATM 94.48 Moment 165906.88 1750 Aircraft Empty Fairing Kit 166818.88 New empty Wt. 1764

106818.88 = 94.56 New empty C.G.

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	221		209495.88	2177

209495.88 = 94.58 Nost foward C.G. Within limits so is considered satisfactory.

Aircraft Specification A-782-3 C.G. Range /93.9 to /104.9

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APPROVED

FORWARDED FOR ENGINEERING APPROVAL

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Form ACA-3 (11-7-46)	37		RTMENT OF COM		Approval expire	No. 41-R052.1. a December 31, 1948.
			RONAUTICS ADMINI	the second secon	c Dicabil	EDNITIC)
·	AIR AND ALTERATION	 				
INSTRUCT	IONS.—This form must be fil	led out in du	plicate each time	a major repair and/or alt	eration is made	of an aircraft,
(I) For	ngine, or instrument, as follows an Aircraft.—Complete items	i 2 3s 4 5	6 and 7 and sub	mit to CAA representative	for approval.	
(B) For a	i Component Installed in a	n Aircraft.	Complete items 1,	2, 3 (b, c, or d, whichever	is applicable), 4	, 5, and 6, and
(C) For	it as described in (A) above. Spare Component.—Comp	lete items 3 (b, c. or d), 5, and 6	, and submit to CAA repre	sentative for ap	proval. When
· sppr	exed retain both copies of this	form with th	e component until	installation on an aircraft.	AT TEST THE	items 1, 2, and
4 mu	st be completed by the installi		· · · · · · · · · · · · · · · · · · ·			duite.
1. AIRCRAFT	MAKE		NODEL Navion	SERIAL NO. 1472		fication mark
	Ryan NAME (First, middle, last)	- (- 1)		number, city, zone, and State)		: .
2. OWNER						
	Ryan Aeronautical C	ombsuA		Drive, San Diego,	Californi	3.
3. FILL IN I	NFORMATION IN THIS ITEM	ONLY FOR	THE UNIT REPAI		NATURE OF	WORK (Check)
TINU	MAKE		MODEL	SERIAL NO.	MAJOR REPAIR	MAJOR ALTERATION
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14		1	2-8			X
b. PROPELLER BLADE OR HUB						Av. 5111
c. ENGINE					<u> </u>	3 (2)
	TYPE AND MANUFACTURER	570		•	1915.	· .
d. INSTRUMENT		注				
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	NAME .	ADDR	ESS (Street and an unber,	city, rone, end State)		K ACCOMPLISHED
6, AGENCY	Ryan Aeronautical Co	270	L Harbor Driv	e, San Diego, Cal	1f. 8-2	6-48
7 DESCRIP	TION OF WORK ACCOMPL	ISHED IN A	CORDANCE WIT	H PART 18 OF THE CI	VIL AIR REGU	LATIONS AND
ITS ASSO	CIATED CIVIL AERONAUTIC EARING AIRCRAFT IDENTIFICATI	CS MANUAL	IB. (IF MORE SPACE	IS NEEDED, CONTINUE ON	REVERSE OR AT	TACH SEPARATE
Renov				Item 2 Wt	• 53#	Arm 7"
					62#	Arm 7ª 🐔
Inst	lled: Hartzell Processing Control, Vo			Item la Wt	2#	Arm 56"
	Cabin Heat	er :		Item 407 Wt	. 12# √	Arm 47"
	(See reverse	s side for	balance com	putations)	€\ ₀ \	
I CERTIFY !	that the above statements are	true and corr	ect to the best of m	y knowledge.	<u>.</u>	
	A. Averett Benta		ASE 1	e, a company of	8-26	-48
Bert	A. Arabet Roll	77	(Continue)	accomples and rating?		Date)

TO BE COMPLETED BY CAA REPRESENTATIVES
SIGNATURE OF DESIGNEE

Bert A. Averett Buff Querely 6294
SIGNATURE OF INSPECTOR OF THE PROPERTY OF THE

SIGNATURE OF INSPECTOR

8-26-48

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ACCEPTED REINSPECTED

(Date)

. 1. 1948

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By Kilot & Ball

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