



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make PIPER	Model PA-22
	Serial No. 22-1605	Nationality and Registration Mark USA N3330A
2. Owner	Name (As shown on registration certificate) JORDON, Don T.	Address (As shown on registration certificate) 7050 Shiloh Road Midlothian, Tx. 76065

3. For FAA Use Only

The alteration identified herein complied with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7

Date **27 1997**
Gene Brans
Gene Brans FAA Inspector, DAL-FSDO

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Gary Hammock 830 Truman Circle Lancaster, Tx. 75146	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	A&P 467584915
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 26 June 1997	Signature of Authorized Individual <i>Gary Hammock</i> Gary Hammock
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7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 27 June 1997		Certificate or Designation No. 467584915	Signature of Authorized Individual <i>Gary Hammock</i> Gary Hammock	

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.)

1. Removed previously installed shoulder harness belt assemblies from pilots and co-pilots front seats.
2. Replaced pilots and co-pilots shoulder harness assemblies with repaired units provided by C & M Marine, Inc., 4585-C Claire Chennault, Dallas, Tx., P/N 501580-401, Two (2) each, Repair Station # SX1R496K, Reel, Harness Assemblies per FAA Form 8130-3, dated 15 May 1996.
3. All hardware used was either the repaired assemblies by C & M Marine or the original hardware used on the previously approved installation.
5. No conflicts with any other modification or alteration was determined.
6. Aircraft weight and balance, new, was entered in the appropriate records. (Total weight added was .75 lbs.)

-----END-----

Additional Sheets Are Attached

FIELD APPROVAL

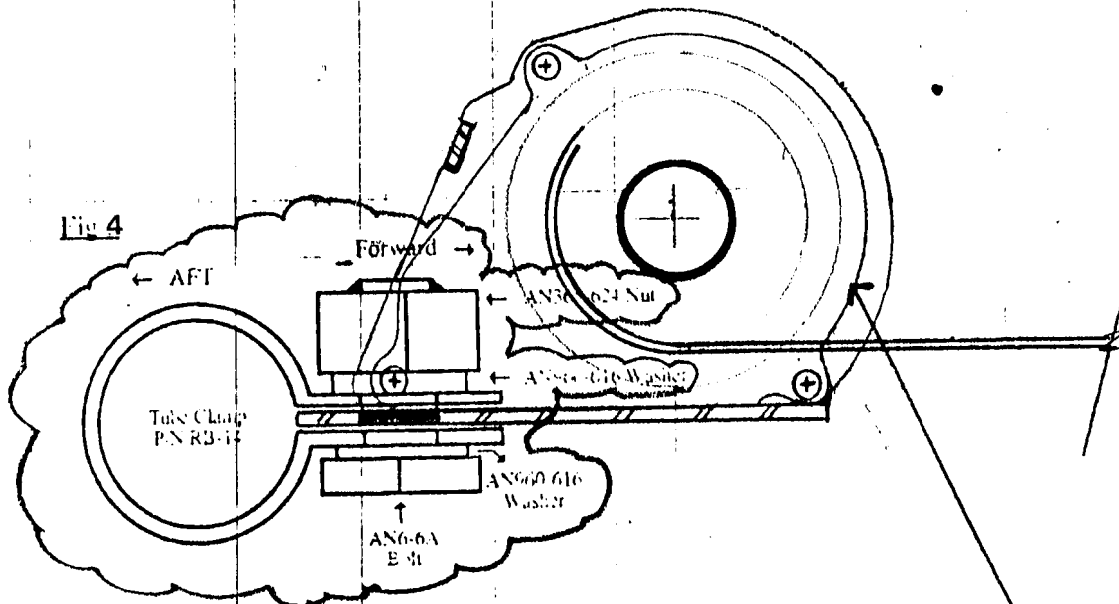
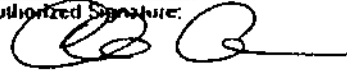


Fig 4

EXISTING CONNECTION POINTS, PREVIOUSLY APPROVED & INSTALLED UNDER STC# SA 1493GL, AERO FABRICATORS INC.

REMOVED AERO FABRICATORS INC. P/N RB-9 TRIANGULAR FITTING AND REPLACED WITH AM-SAFE P/N 501580-401 REEL

USA N3330A - 27 JUN 97

1. UNITED STATES		2. FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration				3. System Tracking Ref. No. 9221	
4. ORGANIZATION C & M MARINE, INC 4585-C CLAIRE CHENNAULT DALLAS, TX					5. Work Order, Contract, or Invoice Number. 9221		
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work	
	Reel Harness Assy	501580-401	N/A	2	N/A	repair	
13. Remarks Re-Work							
Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.							
14. New <input type="checkbox"/> Newly Overhauled <input type="checkbox"/> Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met.				19. Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.			
15. Signature		16. FAA Authorization No.:		20. Authorized Signature: 		21. Certificate Number: SX1R496K	
17. Name (typed or printed):		18. Date:		22. Name (typed or printed): CHARLOTTE ARCHER		23. Date: 5/15/96	

INSTRUCTIONS FOR INSTALLING SHOULDER HARNESS USING AERO FABRICATORS INC. KIT #H-700-114

Fig 1A

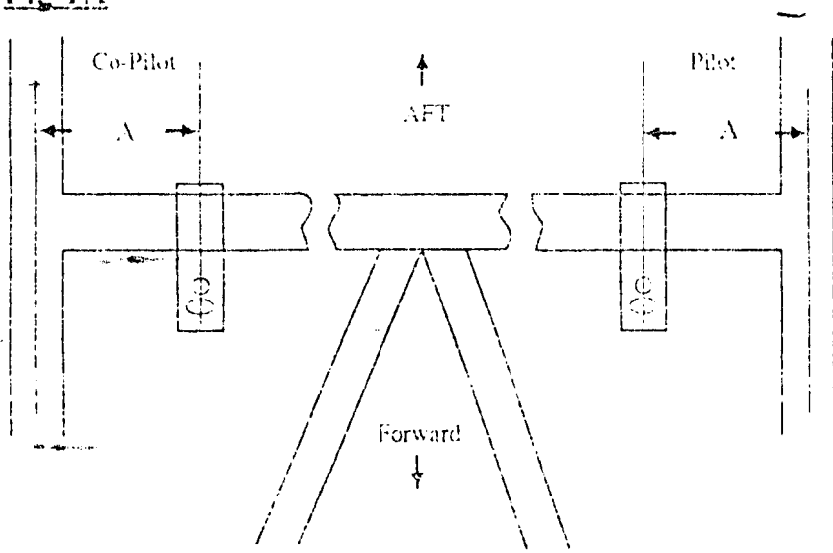


Fig 2

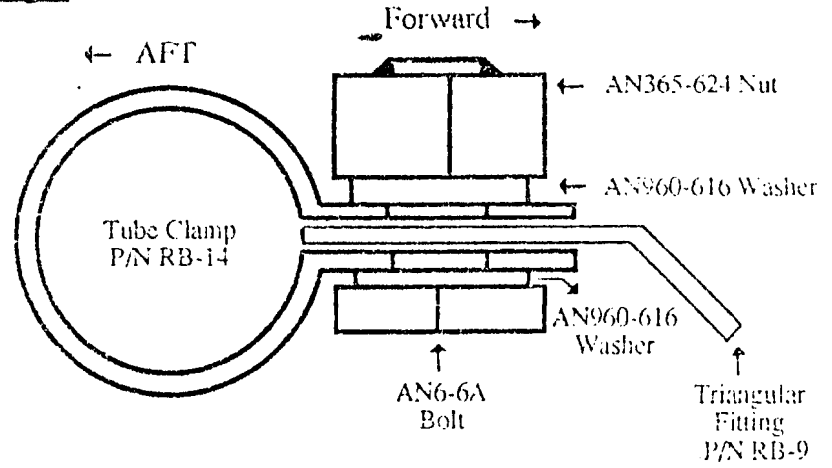


Fig 1

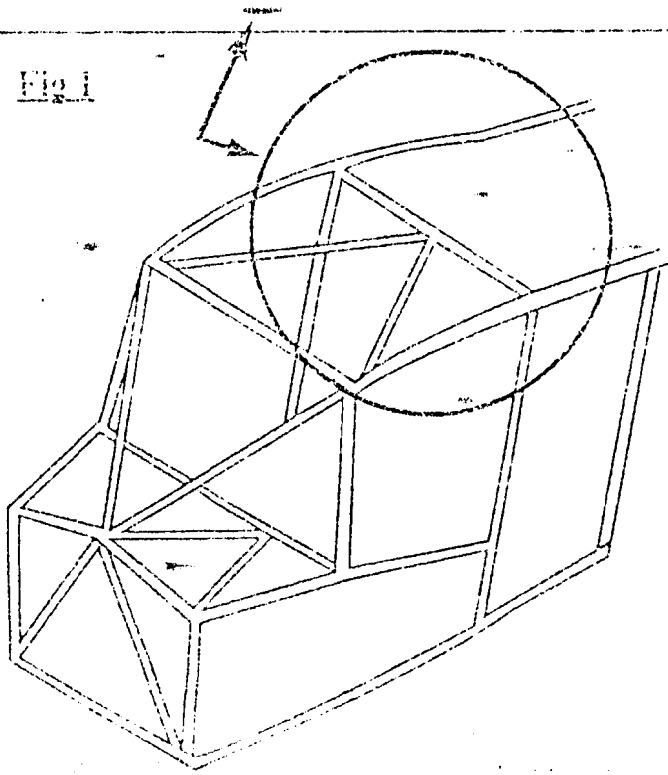
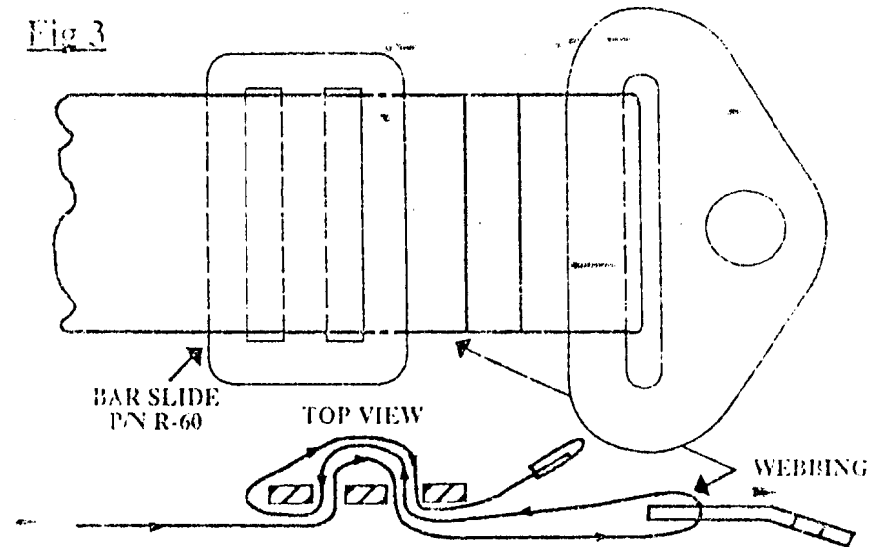


Fig 3



	DIM A	
PIPER PA-20	8-1/2"
PA-22	8-1/2"
PA-22-108	8-1/2"

	DIM A	
STINSON	9-1/2"

USA N33325A 27 JUN 97

Department of Transportation Federal Aviation Administration
Supplemental Type Certificate

Number SA1493GL

This certificate, issued to Aero Fabricators, Inc.
P. O. Box 181
1216 North Road
Lyons, WI 53148

certifies that the change in the type design for the following product with the limitations and conditions
thereof as specified herein meets the airworthiness requirements of Part 3 of the Civil Air

Regulations (See Aircraft Specification No. 1A6 for complete
certification basis).

Original Product --- Type Certificate Number 1A6

Make Piper Aircraft Corporation
Model PA-22, PA-22-108

Description of Type Design Change:

Install Aero Fabricators shoulder harness and seat belt assembly per
Aero Fabricators Installation Instructions AF-29, No Revision, dated
March 21, 1990, or later FAA Approved revisions.

Limitations and Conditions

This approval should be not be extended to other aircraft of this model
on which other previously approved modifications are incorporated, unless
it is determined by the installer that the interrelationship between this
change and any of those other previously approved modifications will
introduce no adverse effect upon the airworthiness of that aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until
revoked, suspended, reneved, or a termination date is otherwise established by the Administrator of the
Federal Aviation Administration.

Date of application March 21, 1990

Date received:

Date of issuance June 28, 1990

Date recorded:



By direction of the Administrator
Donald P. Michal

(Signature)
Donald P. Michal, Manager
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47

USA N333DA 27 JUN 97

AF 38
4-12-90
RW B

8/190

INSTRUCTIONS FOR INSTALLING SHOULDER HARNESS USING AERO FABRICATORS INC. KIT #H-700-114

1. Gain access to the upper cabin area through opening in headliner.
2. Locate cross tube as shown in Fig #1 and 1A.
3. Locate pilot installation point. Dimension A, from the centerline of upper left longeron tube as shown in Fig 1A. (If installing co-pilot use same procedure using upper right longeron as shown in Fig 1A.)
4. Install tube clamp, P/N RB-14, and triangular fitting, RB-9, using AN hardware supplied with kit as shown in Fig 2. (Triangular fitting will be pointing forward and down.)
5. Torque the bolt to 50-70 in-lbs. as specified in AC43.13-1A, Chapter 5, Section 1.
6. Cut slit in headliner to allow triangular fitting to protrude downward thru opening and into cabin area.
7. Install Aero Fabricator shoulder harness P/N H-702 using 3-bar slide as shown in Fig 3.
8. Install Aero Fabricator seatbelt assembly per instructions included with the safety belt.
9. Make appropriate FAA Form 337 and log book entry (each shoulder harness assembly weighs .75 lbs.)

USA N3330A 27 JUN 97

Pg 3 of 3

AP-23
1-12-93
- 27.5

AERO FABRICATORS INC.

FAA CERTIFIED REPAIR STATION QL2R113L
Aviation Manufacturing Specialists

Phone 414-763-3145
FAX 414-763-7595

Box 161
1216 North Road
Lyons, WI 53148

H-700-114

SHOULDER HARNESS INSTALLATION KIT PACKING LIST

- _____ 1 - Tube Clamp, P/N RB-14
- _____ 1 - Triangular Fitting, RB-9
- _____ 1 - AN6-6A Bolt, L-699-119
- _____ 1 - AN365-624 Nut, L-699-167
- _____ 2 - AN960-616 Washers, L-699-177
- _____ 1 - Aero Fabricator Shoulder Harness P/N H-702 with instruction sheet or H-702-200 Alternate Shoulder Harness Assembly.
- _____ 1 - Aero Fabricator Seat Belt Model #65-50 or 89-92 or 89-82 (one of the models will be included). (Alternate Model #90-91)
- _____ 1 - STC Paperwork and Installation Instructions