	MAJOR REPAIR AND ALTERATION			Form Approved OMB No. 2120-0020		
J.S Department of ransportation deviation deviation deministration	(Airframe, Pow			For FAA Use Only		
and dispositio	NS: Print or type all entries. See FAR 43.9, Fan of this form. This report is required by law (4 violation (Section 901 Federal Aviation Act 195	9 U.S.C. 1421). Failure to report	•			
1. Aircraft	Make Piper	Model PA-22-150				
	Serial No. 22-7494	Nationality and Registration Mark N3606Z				
2. Owner	Name (As shown on registration certificate Homer W. Landreth	Address (As shown on registration certificate) 8640 West Sierra Pinta Dr.				
	Michael W. Landreth	Peoria, AZ. 85382-8784				
· · · · · · · · · · · · · · · · · · ·	·	3. For FAA Use	Only	· · · · · · · · · · · · · · · · · · ·	·	
			The alternative data identified herein altworthiness requirements and is a described aircraft subject to conformathorized in FAR 43, section 43.7.	approved only for the ab mity inspection by a per	XOVE	
· · 		4. Unit Identific	FAAINSPECTOR	DATE	5. Type	
Unit	Make	Model		ial No.	Repair	Alteration
IRFRAME	(As described in item 1 above)					
POWERPLANT						
PROPELLER						
APPLIANCE	Туре					
	Manufacturer					
		6. Conformity S	tatement	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
A. Agency's Name	e and Address	B. Kind of Agency		C. Certificate No.		· -
Homer W. La 8640 West Si Peoria AZ, 85	ierra Pinta Dr.	Foreign Certifie	U.S. Certified Mechanic Foreign Certified Mechanic Certified Repair Station Manufacturer			
have been	the repair and/or alteration made to the unit(s) made in accordance with the requirements of ue and correct to the best of my knowledge.	Part 43 of the U.S. Federal Aviation	on Regulations and that the inform			
· · · · · · · · · · · · · · · · · · ·		Signature of Aut	porized Individual			: . ·
)ate	ANUANT 2005	- Alay	nu la Ras	EAM)	· .	

Person Approved by Transport

Signature of Authorized Individual

Canada Airworthiness Group

FAA Form 337 (12-88)

Date of Approval or Rejection

BY

Inspector

FAA Designee

Repair Station

Certificate or

Designation No.

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.)

Aircraft PA22-150 N3606Z Serial Number 22-7494

- 1. Removed Delco 14 Volt Generator from the engine.
- 2. Removed Delco 14 Volt Voltage Regulator from the engine.
- 3. Modified existing Generator mounting bracket in accordance with instructions in Figure 4A. Painted completed bracket with rust inhibiting primer grey paint.
- 4. Modified Oil Cooler mounting bracket in accordance with instructions in Figure 4B. Painted completed bracket with rust inhibiting primer grey paint. Verified fit with Generator Mounting Bracket as illustrated in Figure 4C.
- 5. Installed Alternator Mount and Oil Cooler Mount Bracket onto engine at previous location utilizing 3 crankcase bolts, one rear mount bolt and lockwasher, and Oil cooler line fitting nut, as illustrated in Figure 4D.
- 6. Installed Denso Corporation (Previously named Nippondenso Corporation) 12 Volt Alternator Part Number 100211-1690 onto Mount Bracket using one front mount bolt and lock washer and one bolt and Lock Nut in the tensioning arm that was fabricated in accordance with the instructions in Figure 4E and painted with rust inhibiting primer grey paint. Complete assembly is illustrated in Figure 4F.
- 7. Replaced origional equipment DPDT Master Switch and dual fuse block with 30 Amp Potter and Brumfield switch/circuit breaker P/N W31X2M1G30 and installed Potter and Brumfield W58XC4C12A3, 3 Amp Circuit Breaker adjacent to the Master Switch/Breaker. The switch, circuit breaker, and alternator were connected as shown in the attached electrical wiring diagram, Drawing 1.

The Alternator was fu	nctionally tested and did not interfere with any installed equipment and Avionics.								
The total continuous electrical load was evaluated and I/AW AC43.13-1B Section 3, Para 11-33 was found to be less than 80 percent of the ternator output, and found to be compatable with all previous aircraft modifications to date. Description of the ternator output, and found to be compatable with all previous aircraft modifications to date. Description of the ternator of the t									
								2. Instructions for Con	tinued Airworthiness were provided.
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	Additional Sheets Are Attached								

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Registration Number N3606Z

Make and Model: Piper PA-22-150

Original Issue

Date: 21 JAN 2005

INTRODUCTION:

This installation consists of the replacement of the Delco 20 Amp Generator with a 40 Amp Capable Denso Alternator.

DESCRIPTION:

Description of the installation is contained in the FAA Form 337 Dated 21 Jan 2005

CONTROL:

The Alternator requires no external control. It is internally regulated and over voltage protected. The Field winding is protected by a 3 Amp circuit breaker. The 3 Amp Breaker limits alternator output to less than 30 Amps. The remaining electric circuits in the aircraft are as specified in Piper Drawing 14706 for the PA-22 Aircraft and previous FAA Form 337's for N3606Z.

SERVICE INFORMATION:

There is no required servicing of this Alternator.

MAINTENANCE INSTRUCTIONS:

In the event of a suspected malfunction, the alternator should be removed by a qualified mechanic and tested and repaired by an alternator repair facility.

TROUBLESHOOTING:

Standard approved practices for electrical troubleshooting should be used.

REMOVAL AND REPLACEMENT INFORMATION:

The alternator can be removed and replaced after removal of the lower engine cowling.

DIAGRAMS:

Mechanical attachment drawings are attached to the FAA Form 337 for this modification. Electrical drawings are in Piper Drawings for the PA22 aircraft and previous 337's for N3606Z.

SPECIAL INSPECTION REQUIREMENTS:

The alternator should be inspected for security and belt tension on each preflight inspection, and the proper operation should be verified by monitoring the Ammeter during operation. During 100 hour and Annual inspections all mount bolts should be checked for security and the general condition of all wiring and mechanical attachment parts should be verified. Applicable component and mounting requirements specified in AC 43-13-1B and any inspection checklist for N3606Z should be verified during these inspections.

FIGURE 4C PA22 N3606Z

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