JS Department

US Department of Transportation Federal Aviation

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

Federal Aviation										
instructions	and disposit								bsequent revision thereof) for esult in a civil penalty for each	
4. 4	N45	Nationality and Registration Mark N4593H				Serial No. 15-357				
1. Aircraft	IVIAKE	Make Piper				Model Series Vagabond				
2. Owner		ne <i>(As shown on i</i> id Grimm	ate)		Address (As shown on registration certification certification) Address 4710 Penridge Rd. City Toledo Zip 43615Country USA			State OH		
3. For FAA Use Only										
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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.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N4593H
Nationality and Registration Mark Date
This 337 is to separate and clarify the original 337 for this aircraft dated 8-9-82 when the dual 12 gallon wing tanks were installed.
This field approval is only for the fuel tank installation in the wings, see ICA airworthiness limitations.
Installation of these tanks as part of an auxiliary fuel system is approved in the Piper J-3/PA-11 wing by STC SA560GL. The Piper PA-15 wing is a shorter version of the J-3/PA-11 wing sharing the same ailerons, ribs, and spar dimensions. There is no difference in the structural integrity of this installation in PA-15 wings as compared to J-3/PA-11 wings.
Tank installation description Reference photos T1, T2, and Drawing T001. Installation in PA-15 wing is identical to the J-3/PA-11 wing installation with the exception of widening the first bay between the front and rear spars by relocating the center portion of the second rib outboard 3.5
inches. The second wing rib Univair P/N U1228-05 is modified into FWD, Center, and Rear sections. See Univair Service Letter No. 100. The Center section of the rib is fastened to its new location with its original flanges and rib screws. The FWD and Rear sections are installed in their original locations using their original flanges and additional rib screws.
Each tank is held in place by 4 stainless steel retainer brackets. These straps are 1.5 inches wide, formed to wrap around the front and rear spar. The ends of these straps are bent 90 degrees to the face (vertical) of the wing spar forming a tab 1 inch long. These straps have a 1/8 thick rubber strap positioned between the wing spar and the tank hold down strap to prevent dissimilar metals from touching. The wing tank strap is held in position by four rib screws in the wing spar, two in front and two in back of the strap in the same area that the wing ribs are attached. Two straps are attached to the front spar, two attached to the rear spar.
The wing tank is set in place and the mounting tabs / holes for the tanks are used to position the holes To be drilled in the wing tank straps. AN509 10R screws, AN365-1032 nuts and AN960 washers are used to attach the wing tanks to the wing tank brackets.
Wing tanks are inspected for clearance on all sides and also with diagonal wires. 1/8 rubber straps is fitted into the tubes in the fuel tanks to prevent diagonal brace wires from rubbing when vibrating.
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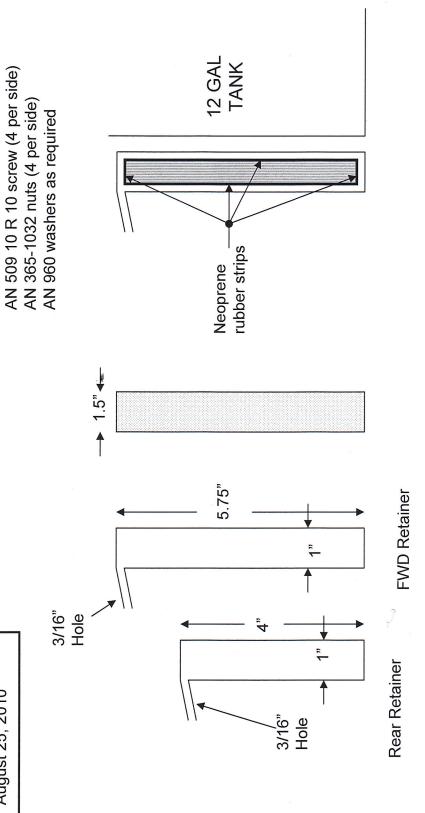
Additional Sheets Are Attached

Additional Attached Sheet		
	N4593H	
	Nationality and Registration Mark	Date

INSTRUCTIONS FOR CONTINUED AIRWORTHINES: Dual 12 Gallon Wing Tanks PA-15 sn 15-357

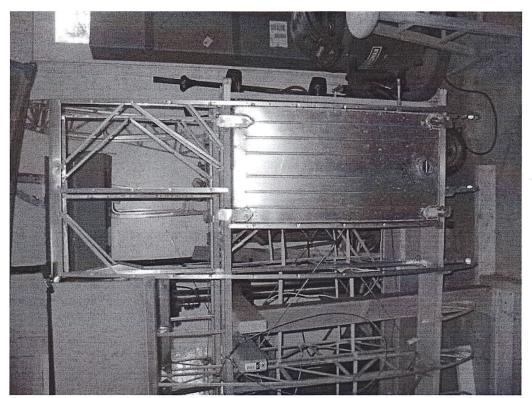
- 1. INTRODUCTION: Installation 12 Gallon Wing Tanks in PA-15 sn15-357
- 2. **DESCRIPTION:** As described in block 8 of this 337
- 3. CONTROL, operation information: No special procedures required.
- 4. **SERVICING INFORMATION:** no special information
- 5. MAINTENANCE INSTRUCTIONS: no special information
- 6. TROUBLE SHOOTING: no special information
- 7. REMOVAL / REPLACEMENT: As described in block 8 of the attached 337
- 8. DIAGRAMS: T1, T2, and Drawing T001
- 9. SPECIAL INSPECTIONS: none required
- 10. APPLICATION OF PROTECTIVE TREATMENTS: none required.
- 11. DATA: This 337, Univair Service Letter No. 100,
- 12. LIST OF SPECIAL TOOLS: none required
- 13. FOR COMMUTER CATEGORY AIRCRAFT: not applicable
- 14. RECOMMENDED OVERHAUL PERIODS: On Condition.
- 15. AIRWORTHINESS LIMITATIONS: These tanks must be integrated into a separately approved airplane fuel system in order to be used.
- 16. REVISIONS: A letter will be submitted to the local FAA Office with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing block 3 and including the following statement, "The attached revised/new Instructions for Continued Airworthiness for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness. After the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, and date on the FAA Form 337.

Drawing# T001 12 Gallon wing tanks PA-15 aircraft August 25, 2010



Retainer Material .036" 321 Stainless Steel 2 FWD, 2 Rear retainers required per tank. Install 1/16"-1/8" by 1 1/4 "Neoprene rubber strips between spar and retaining brackets to protect spar

NOTE: Match Drill Tank Tabs and Retainer Brackets



T1

