

	Standard Modification Issue 1 August 2012	Mod No. SM14083
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		Compiled : Bob Ellis
		Approved : A Draper

TITLE : GoPro Camera External Mounting

APPLICABILITY : All Vans Aircraft with Removable Wing Tips

Mod Type : Retro-fit

1. Introduction

The purpose of this modification is to safely use a GoPro Hero 3 or 4 camera mounted to Vans aircraft that utilise the optional removable wing tip using #6 screws and/or tie down. **This mod does not cover wing tips mounted with #4 screws**

2. Parts List

2.1 Obtain "GPRO TIE DOWN/WINGTIP BUNDLE" item "GPBND" from PlaneAround LLC at www.planearound.com; this bundle contains all the items you will need to embody this mod except the M10 Nylon Washer. Replacement fittings are available from LAS Aerospace Ltd (unless stated) as follows:

Description	Part No	Number
Tie Down Mount to GoPro Case #10-32 Screw	AN526C-1032-R16	1
Tie Down Mount to GoPro Case 3/16" Thin Washer	AN960C-10L	2
Tie Down Mount to GoPro Case 3/16" Half Nyloc Stiffnut	(AN364) MS21083-C3	1
Tie Down Mount 3/8"-16 Lock Nut	(AN340) MS35649-2384	1
Wing Mount #6-32 5/8" Screws	(AN507) MS24693-C29	3
Wing Mount #6 Black Nylon Countersunk Washer	GP3	3
From eBay:		
Optional M10 Nylon washer for tie down mount	M10 Nylon Washer	1

2.2 List of related drawings/photos

Drawing/Photo No	Title/Description	Issue
SM14083-01	Photograph of Installation – Wing Tip Mount	1
SM14083-02	Photograph of Installation – Wing Tip Mount Close Up	1
SM14083-03	Photograph of Installation – Wing Tie Down	1

3. Action

Wing Tip Mount

- 3.1 Degrease underside of wing tip mount and apply supplied foam rubber cushion strip
- 3.2 Remove the following screws from the wing tip (see photos SM14083-01/02):
 - Third fwd from leading edge/outboard skin intersection
 - One each side of leading edge/outboard skin intersection
- 3.3 Fit wing tip mount using provided #6 screws – use countersunk washer for aft two screws
- 3.4 Fit tie down mount to the GoPro Hero 3 or 4 waterproof case but do not fully tighten nyloc stiffnut
- 3.5 Screw tie down mount into the wing tip mount but do not fully tighten the locknut.
- 3.6 Switch camera on to check view.
- 3.7 Tilt/turn mount to desired angle then secure nyloc stiffnut at step 3.4 and the locknut at step 3.5

Tie Down Mount

- 3a.1 Fit tie down mount to the GoPro Hero 3 or 4 waterproof case but do not fully tighten nyloc stiffnut
- 3a.2 Screw tie down mount into the wing tie down point (see photo SM14083-03) using optional M10 nylon washer to protect paint work but do not fully tighten the locknut.
- 3a.3 Switch camera on to check view.
- 3a.4 Tilt/turn mount to desired angle then secure nyloc stiffnut at step 3a.1 and the locknut at step 3a.2

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4. Flight Test and Special Inspections

4.1 Pre-flight - Check security of locknut and nyloc stiffnut

4.2 Flight Test - Carry out Item 7 (Stalls) of the annual flight test and record slip ball position at normal cruise speed. Land and check integrity of the mount- if satis carry out Item 8 (Maximum Speed Test). If integrity satis repeat Items 7/8 with GoPro mounted on the other wing tip and at the tie down locations. Record any differences from the previous annual flight test.

4.3 Annual maintenance check - Remove each wing tip and check the three platenuts used in step 3.2 above for integrity and cracking.

5. Weight and Balance

5.1 The addition of the camera and mount has no effect on CG - add 0.5 lb to aircraft weight

6. Certification

6.1 Appropriate logbook entry to be made by owner.

6.2 If aircraft has a Pilot Operating Handbook make a suitable entry.

6.3 Insert item into the annual maintenance schedule to cover item 4.3 above.

SM14083-01 Photograph of Installation – Wing Tip Mount

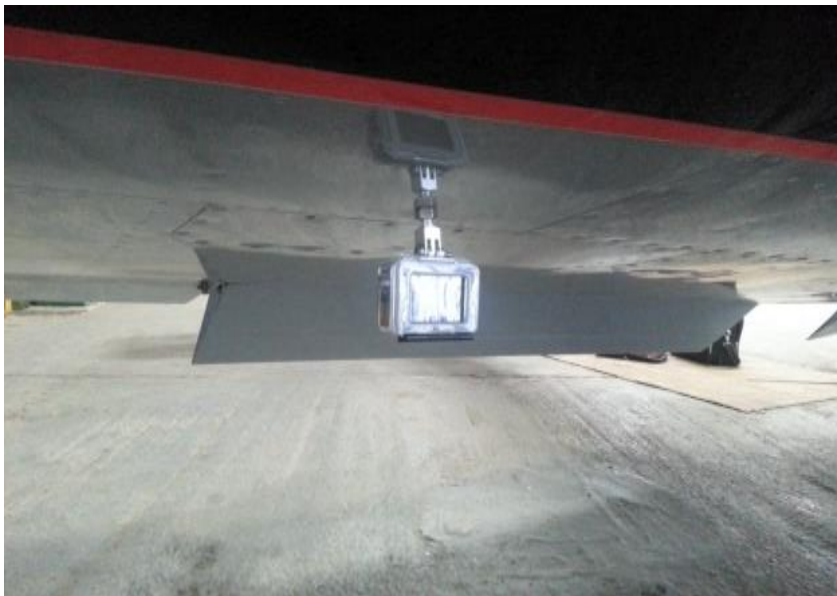


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SM14083-02 Photograph of Installation – Wing Tip Mount Close Up



SM14083-03 Photograph of Installation – Wing Tie Down



Having laid the ground work and paid the fee if you use this mod please make a donation of your choosing to my charity - <http://www.justgiving.com/G-JBTR> - Thanks - Bob Ellis