

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety Washington, D.C. 20594

June 20, 2016

AIRWORTHINESS

Group Chairman's Factual Report

ANC15MA041

Attachment 1 – N270PA Maintenance Records (62 pages)

SECTION : 0.000 PAGE : 3 REVISION : 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

LIST OF EFFECTIVE PAGES

	Section	0.000	Rev	Rev. Date	3.700	1-2	ORIGINAL	10-21-05
	0.000	1-16	6	02-01-13	3.800	1-2	1	04-01-07
					3.900	1-4	3	04-01-09
	Section	1.000			3.1000	1-2	ORIGINAL	10-21-05
	1.000	1-10	5	02-01-12	3.1100	1-2	ORIGINAL	10-21-05
					3.1200	1-6	ORIGINAL	10-21-05
	Section	2.000			3.1300	1-2	ORIGINAL	10-21-05
	2.000	1-4	3	04-01-09	3.1400	1-2	5	02-01-12
	2.100	1-6	3	04-01-09	3.1500	1-2	3	04-01-09
	2.200	1-4	3	04-01-09	3.1600	1-6	5	02-01-12
	2.300	1-2	3	04-01-09	3.1700	1-4	3	04-01-09
	2.400	1-4	ORIGINAL	10-21-05	3.1800	1-2	3	04-01-09
	2.500	1-2	3	04-01-09				
	2.600	1-2	3	04-01-09	Section -	4.000		
	2.700	1-16	3	04-01-09	4.000	1-2	4	02-01-10
	2.800	1-2	3	04-01-09	4.100	1-2	4	02-01-10
	2.900	1-2	ORIGINAL	10-21-05	4.200	1-2	4	02-01-10
	2.1000	1-2	ORIGINAL	10-21-05	4.300	1-2	4	02-01-10
	2.1100	1-2	2	04-01-08	4.400	1-2	4	02-01-10
	Section	3.000			Section 5	5.000		
,	3.000	1-4	3	04-01-09	5.000	1-2	3	04-01-09
	3.100	1-6	3	04-01-09	5.100	1-2	3	04-01-09
	3.200	1-6	3 3 3	04-01-09	5.200	1-54	6	02-01-13
	3.300	1-4	3	04-01-09	5.300	1-2	3	04-01-09
	3.400	1-4	3	04-01-09	5.400	1-6	4	02-01-10
	3.500	1-2	1	04-01-07	5.500	1-24	5	02-01-12
	3.600	1-2	3	04-01-09				



MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-General

EFFECTIVE: 02/01/13

PAGE: 3

REVISION: 5

LIST OF EFFECTIVE PAGES

Section	Pages	Rev No.	Rev. Date
General	1-14	5	02/01/13
DHC-3T-O.	1-4	5	02/01/13
DHC-3T-MM.	1-4	5	02/01/13
DHC-3T-M125.	1-10	5	02/01/13
DHC-3T-A.	1-12	5	02/01/13
DHC-3T-B.	1-12	5	02/01/13
DHC-3T-C.	1-14	5	02/01/13
DHC-3T-Limitations	1-6	5	02/01/13

ACCEPTED 6/19/13

EMAAL FSDORE X NO

PM Air - NON-ROUTINE 270PA HOBBS: 6827.8 ETSO: 10361.8 PTSO: 793.6 DATE: 10-Jun-15 TTAF: 24395.8 ETT: 14532.2 PTT: 3656.7 PAGE: 1 OF General STARTS **FLIGHTS** MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM I certify that this Aircraft has been inspected IAW a PM Air IIc. AAIP-MM inspection, C/W AAIP-MM Inspection 1 was determined to be in airworthy condition. INIT and is approved for return to service. SIGN: DATE INSP RG RII Y N CERT TYPE: ITEM Cow 83-64-05 tentral C/W AD 83-04-05, Control column celumn 2 INIT SIGN DATE 6/10/15 INSP RG RII Y: N: CERT TYPE: ITEM 2011-18-11 3 C/W AD 2011-18-11. Elevator tabs INIT DATE 6/10/16 SIGN: INSP RG RII Y N: CERT TYPE Strace light ITEM Rellace 4 INIT DATE 6/10/15 INSP SIGN Cost RII Y N-CERT TYPE: ITEM INIT SIGN: DATE INSP RII Y N: CERT TYPE: # ITEM INIT SIGN DATE INSP RII Y: N: CERT TYPE

EFFECTIVE: 02/01/12

MAINTENANCE MANUAL

PAGE: 9

REVISION: 4

SECTION: ANNEX A, DHC-3T, AAIP-General

	N#: 270PA DATE: 6/19/15
7	TAT: 24395. 8° Total Engine Flights: 14532, 2
Тур	pe of inspection and/or scheduled maintenance (AAIP, PI, WS, AD, etc.):
AA	AIP-MM
AL	83-04-05, Control Column
AL	2011-18-11, Trim Tabs Free play Inspection
INS	PECTION COMPLETED:
	28 A
	tify that:
1.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was
1. 2. 3.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy.
1. 2. 3. 4.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation.
1. 2. 3. 4.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepance.
1. 2. 3. 4. 5.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepancy forms and cleared.
1. 2. 3. 4. 5.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepancy forms and cleared. All worksheets and parts tags are complete and have been accounted for
1. 2. 3. 4. 5.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepancy forms and cleared.
1. 2. 3. 4. 5.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepancy forms and cleared. All worksheets and parts tags are complete and have been accounted for. All equipment, panels, cowlings, covers, fairing, etc., removed to accomplish this inspection have been reinstalled.
1. 2. 3. 4. 5.	All work was performed in accordance with the requirements of PROMECH Air's manual. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed. No known condition exists that would make the aircraft un-airworthy. So far as the work performed is concerned, the aircraft is in condition for safe operation. All scheduled items of work have been transferred from the planning reports to the discrepancy forms and cleared. All worksheets and parts tags are complete and have been accounted for. All equipment, panels, cowlings, covers, fairing, etc., removed to accomplish this inspection have

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-MM.

PAGE: 1

EFFECTIVE: 02/01/13

REVISION: 5

INSPECTION DHC-3T-MM.

Page I of 4

Inspection Checklist for de Havilland DHC-3 Turbine Otter

N: 270 P/4 Date: 6 / 10 / 15

Engine Make/Model: P&WC PT6A-135A/34

Hobbs: 6827.8 ETSO: 10361.8 PTSO: 793.6

TTAF: 24395.8 ETT: 14532.2 PTT: 3666.7

IV	NERAL PRE-INSPECTION (GEN)	INITIALS
2)	Check Maintenance log for squawks.	out
2)	Clean all used documents from maintenance folder	1 2 11
_	a) Ensure there is a W&B form and an Equipment List in the folder.	all
-	b) Ensure there are sufficient MF 31 & MF 32 forms in the folder	A
23	c) causare the MF31 and MF32 forms have the proper N# on them V as	-1
3)	Test the Landing Gear Position Advisory System	000
	 After 30 seconds of continuous electrical power the enunciator light will flash once signifying that the unit has powered up. 	1/14
	 To test the system, push and hold the amber enunciator light for 4 – 5 seconds and release. 	N/A
	c) Check to see that the amber enunciator begins to flash and the aural announcements "GEAR IS UP FOR WATER LANDING" and "GEAR IS DOWN FOR RUNWAY LANDING" are each heard one time each.	2/ h
4)	Check CO detector:	WIL
	a. Replace if it is 90 days since "DATE OPENED" recorded on face. Ensure the new CO detector is not out of "USE BY/Shelf life date" on front of package and write the date the detector is opened in the space provided on the face of the CO detector.	c.A
()	b. If the CO detector has turned dark make a discrepancy to investigate agrees and	MIA
1)	Select Artiks Dattery switch on, verify green light illuminates	48
()	Check Instrument lights and Aircraft interior lighting for operation.	SA
()	Check all exterior lights; Navigation, Strobes and Beacon for operation.	Git.
1	Check Pulselite/landing light system for proper operation.	CAN
-	Select Pulselites on; confirm both landing lights are flashing.	SIA
_	 Select landing lights on; confirm both landing lights are on steady 	272
	Turn both switches off.	A

Reference: Lubricant types

(1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-MM.

PAGE: 2

EFFECTIVE: 02/01/13

REVISION: 5

INSPECTION DHC-3T-MM.

Page 2 of 4

N: 270PA

Date: 6/10/15

COCKPIT, CABIN & CARGO	INITIALS
Only the control column lower sock is removed for the Cockpit, Cabin & Cargo area inspection. Additional inspection panels may need to be removed to investigate & repair discrepancies.	on.
NOTE: THE FOLLOWING CHECKS ARE ON THE ENTIRE RANGE OF TRAVEL	
 Operate Aileron, Elevator, and Rudder control systems. Check for smoothness of operation V. 	Copt
 Operate Aileron, Elevator, and Rudder trim systems. Check for smoothness of operation. 	124
WARNING: ENSURE FLAPS WILL NOT HIT CABIN DOORS BEFORE OPERATING FL	APS.
 Operate flap system through full range of travel. Check for smoothness of operation and movement. 	CA
4) Operate water rudder retract; check for ease of operation, security of handle & lube (Pledge).	44
 Operate fuel selector; lube (2) selector while operating the handle through its full range of travel check for smoothness of operation, and proper indexing of handle. 	OA
Operate the heater controls; check for ease of operation.	60
 Operate rudder controls through full range of travel. Check for freedom of movement and condition. Inspect rudder pedals for condition security and lube (2). 	A
8) Check Control Column IAW Para (a) of AD 83-04-05 and complete recurring AD log.	4
 Inspect seats for general condition, full and smooth travel, ease of operation & Lube (2) 	18
 Inspect seat belts & shoulder harnesses for presence of TSO tags, proper operation and security of attachment. 	at
 Check all interior panels, window molding and door trim for loose or missing screws. Replace all missing screws. 	SA
12) Insure the control column lower sock is secured.	CA
	Con 1st

_	SELAGE	INITIALS
No Ad	inspection panels are removed for the Fuselage inspection. ditional inspection panels may need to be removed to investigate & repair discrepancies.	INTIALS
1)	Inspect fuselage for loose rivets, cracks, corrosion and overall condition.	64
2)	Inspect lower wing strut fuselage fitting for overall condition, corrosion and Lube (3).	ar
3)	Check door latch mechanisms by applying pressure on each latch and comparing it to the others, if one latch is weaker than the rest – a spring is broke and needs replaced. Check for lube (2) and proper and legible placards.	6H
4)	Inspect fuel caps for seal condition, proper latching, chains for condition, security, legibility of placard and lubrication on threads of all 3 caps. Lube (3).	CA

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent. (2)

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-MM.

PAGE: 3

EFFECTIVE: 02/01/13

REVISION: 5

INSPECTION DHC-3T-MM.

Page 3 of 4

N: 270 PA

Date: 6/10/15

FUSELAGE LOWER	INITIALS
No inspection panels are removed for the Fuselage Lower inspection unless the fuel sele- accessible. Additional inspection panels may need to be removed to investigate & repair discrepance.	
Inspect fuel system area for signs of leakage and general condition.	64
2) Inspect fuel drains for operation, security and leaks. Lube (2)	CA
 Inspect fuel selector for signs of leakage, excessive corrosion on diaphragm cover, exfoliation of fuel fittings and lubrication (2). 	CA

TA	IL.	INITIALS
	spection panels under horizontal is removed for the Tail inspection. litional inspection panels may need to be removed to investigate/repair discrepancies.	
1)	Inspect Nav light assembly Lube (2).	6
2)	Inspect horizontal stabilizer screw jack for condition, security and lube (plastilube) top Zerk, lube (2) exterior, check bearings for evidence of wear and attach points for security	CA
3)	From the ground check horizontal stabilizer for overall condition and corrosion.	1k
4)	Inspect flap interconnect tab and servo tabs for delamination, inspect pushrods, rod ends and hardware for condition, security and lube (2); inspect end caps, lever and hinge for condition, wear, lube and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log.	A

WINGS	INIT	TALS
WINGS	LEFT	RIGHT
No inspection panels are removed for the Wing inspection. Additional inspection panels may need to be removed to investigate & repair discrepa	incies.	
 From the ground check the wings, fairings, and flight controls for overall condition, cracks, dents, and missing fasteners. 	GA	at
2) From the ground check all flight controls for condition and corrosion	GA	at
 Lube all bearings and rod ends. lube (2). 	AA	44
4) From the ground check wing tip and Nav light assembly for general condition.	42	WA
From the ground check landing lamp and lens for overall condition.	64	64

Reference: Lubricant types

- (1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.
- (2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.
- (3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-MM. PAGE: 4
EFFECTIVE: 02/01/13 REVISION: 5

INSPECTION DHC-3T-MM.

N: 270 PA

Date: 6 /18 /15

FL	DATS		INT
	inspection panels are removed for the Float inspection. litional inspection panels may need to be removed to investigate & repair discreps	incies.	
1)	Check exterior for cracks, oil canning, loose rivets and damage.	KM	CA
2)	Check float attach struts for overall condition, security, corrosion and Lube (3).	hM	co.
3)	Check flying wires, tram wires, fork ends, and wire pulls for proper tautness, presence separation blocks, overall condition and Lube (3)	e of	CA
4)	Check access steps for overall condition, presence of anti-skid and Lube (3).	V.M	CA
5)	Check water rudder control and retract system for overall condition, and lube (3).	hA	24
6)	Check water rudder posts, blades, attach brackets and hardware for overall condition lube (3).	and M	OA

	inspection panels are removed for the Propeller inspection. ditional inspection panels may need to be removed to investigate & repair discrepancies.	
1)	Inspect spinner and bulkhead for overall condition and cleanliness.	CA
2)	Inspect propeller blades for nicks, cracks, corrosion and overall condition.	at
3)	Inspect propeller blades for proper alignment with slippage marks.	CA
4)	File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4.	GA

Note: NEVER EVER file the Aft. (black) surface of the blade to remove normal leading edge erosion. Only file the Aft. (black) surface of the blade to remove minor nicks and damage.

ENGINE

1) If the aircraft has flown since the last AAIP O; complete an AAIP O checklist..

KM OF

Page 4 of 4

1)	ST INSPECTION Enter next maintenance due hobbs time on the first MF31 and MF32 form. This will be:	
	An AD or a task if due before the next AAIP M125, A, B, or C OR The AAIP M125 if more than 125 hours remaining to the next AAIP A, B, or C. This entry is only made after the last phase of the inspection if the inspection is phased.	od
2)	Enter next maintenance due date on the first MF31 and MF32 form. This will be: An AD or a task if due before the next AAIP MM This entry is only made after the last phase of the inspection if the inspection is phased.	67
3)	Install HOBBS sticker with:	
	The next maintenance due time.	GA
	b) The next maintenance due date.	OA
4)	Make entry on MF32 for completing the inspection.	04

Reference: Lubricant types

- (1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.
- (2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.
- (3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27, Anti-Size, or equivalent.

	Date: 23-Jul-14	Hobbs 6562.9	ETSO: 10096.9	PTSO: 528.7	
	N959PA-270PA		ETT: 14267,3		-
		ted at Hobbs Time of :	N/A	PTT: 3391.8	
-	Total Starts:			Date: N/A	-
		nis Airframe has been i	neposted IAM - DM A	70333	
	Inspection as	nor Dromach Air CAMA	Assert A D. 5 MAIR	AAIP A	COMPLET
-	and	per Promech Air GMM,	Annex A, Rev.5, dated	2/1/2013	_
E	and	was determined to be	in airworthy condition.		
		Approved for retur	m to service.		
-	Signature:		0.0		
	Signature.	, Cert	ificate, Type: A No.:	the second	
_	Date: 25-Jul-14 Hob	bs: 6568.7 ETS	SO: 10102.7 PT:	SO: 534.5 -	
	N: 270PA TT	AF: 24136.7 E	TT: 14273:1 P	TT 3397.6	
	Total Starts:		Total Flights:		
	Installed STC SA4345Ni	M, Kenmore Air Harbor.		configuration.	
		dated July 25		-	
	- Signature		e Type: A&P No.:		
	O.g.nataro	, ooranoa,	0, 1/pc		
_	1 1 1	1 1			
Storted	Date: 6/11/15	Habba 171-17	ETCO 1/12/00	3 PTSO 732.	1 -
Started		Hobbs 6766.3	Notes to a contract of the con		
		TTAF: 24334.3	ETT: 14470.7		2
	Total Starts:	35969	- Total Fligh	its: 30829	_
	Last Phase Completed:	Hobbs 19	Date: 14		
	I certify that the	nis Airframe has been i	nspected IAW a PM Air	AAIP-	
		er Promech Air GMM,			100
		was determined to be in		El II/EU IU	-0
	Silv	Approved for return	The self-control of the se		
		010 HB 11711	Control of the Contro		
	Signature.	, Certif	icate, Type: 10 No.:		1
	F 7 F				7
-					
_					
-					
					-
		CARR	IED FORWARD		

	ate: 23-Jul-14	Hobbs 6562.9	ETSO: 10096.9	PTSO: 528,7	
		A TTAF: 24130.9	ETT: 14287.3	PTT: 3391.8	
	Inspection s	tarted at Hobbs Time of :	N/A	Date: N/A	
	Total Start	s: 35487	Total Flights:	30333	NUMBI
	I certify the	at this Engine has been in	spected IAW a PM Air	AAIP A	_
	Inspection, a	as per Promech Air GMM,	Annex A. Rev.5, dated	2/1/2013	
	8	and was determined to be	n airworthy condition	- 11-5-1-5	-
		Approved for retu			_
		22 2 2 2 3 2 3 2 3 1 3 2 1 1	W 16 -60-622		
	Signature:	, Cert	tificate, Type14 / No.		-
			7	1	-
Started	- Date: 5/11/15	Hobbs 6766.3	ETSO: 10300	3 PTSO: 73	
	N: 2700A	TTAF 24334.	5 ETT: 14470		
	Total Sta	arts: 54 35 91	69 Total F	lights: 4 308	29
	Last Phase Comple	ted Hobbs A	Date:		
		y that this Engine has bee		Air AAIP.	
		n, as per Promech Air GN			
	Inspectio	and was determined to			
			eturn to service.	hi-	
		1000 000 000 000 000 000 000 000 000 00	NEW YORK AND DESCRIPTION OF THE PERSON OF TH		
	Signature:	, c	ertificate, Type 4 No), <u>"</u>	
				1	-
				-	-
				+	+

O ENTRI	Started - Date: 5/11/15 Hobbs 2766-3 ETSO: 10300-3 PTSO: 732 N: 27000 TTAF: 243343 ETT: 14470.7 PTT: 3595 Total Starts: 36949 Total Flights: 30829	1
	Last Phase Completed: Hobbs Date: I certify that this Propeller has been inspected IAW a PM Air AAIP- Inspection, as per Promech Air GMM, Annex A, Rev.5, dated 2/1/2013 and was determined to be in airworthy condition. Approved for return to service.	
	Signature:, Certificate, Type: A - PNo.:	
0		
_		

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 DATE: 26-Feb-15 TTAF: 24334.3 ETT: 14470.7 PTT: 3595.2 PAGE: 1 OF AREA General STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM I certify that this Aircraft has been inspected IAW C/W AAIP-126 Inspection a PM Air IIc. AAIP-125 inspection. 1 was determined to be in airworthy condition. INIT and is approved for return to service. SIGN RG DATE: 5 AINS RII Y NIRG CERT TYPE 111 # ITEM C/W AD 83-02-01, inspected IAW AD an SB NO Wing Strut Lugs & Tie Bar Corresion at this time, Pountal CH 2 CW per AD Par a), SB3/37 par 5 Wing Strut Lending edge INIT CW per AD Par b), SB3/37 par 9 SIGN-RG DATE: 3-5-15 INSP N.RG CERT TYPE AP # RII Y ITEM C/W AD 83-04-05 Removed Control Sock on lower Control Column inspection purel no cracks or 3 by visual inspection IAW par. Dungge noted at this time INIT (a) of AD SIGN: RG NRG CERT TYPE AP RILLY ITEM C/W AD 2011-18-11 96 AD 2011-(1-11. by would Elevator Control Tabs 4 inspect by measuring IAW INIT Compliance (iii) and Viking MM TR # 18, 19 and 20 per AD SIGN: RG DATE: 9-5-15 INSP RILY N:RG CERT TYPE ITEM Compled with All PI inspections PI 05-20-01A, Symmetry 5 PI 05-20-01B, Rigging INIT Pl 05-20-01C, Cable Tension PI 05-20-03, CPCP Inspection SIGN RG DATE: 3-7-15 INSP RII Y NERG CERT TYPE: 42 ITEM Pl 25-60-04, First Aid Kit Complet- u Pl 25-60-01, Life Jackets Inspection INIT Pl 25-60-02, Life Jackets Re-Cert Complete the same month aircraft is returned to service PI 25-60-03, ELT inspect SIGN: RG DATE: 5/7/15 INSP RII Y N:RG CERT TYPE: A J

		PM Air	- N	ON-ROUT	NE	
	270PA DATE: 26-Feb-15 AREA: General	HOBBS: 6766.3 TTAF: 24334.3 STARTS	ETSC	D: 10300.3 PTSC	D: 732.1 T: 3595.2 PAGE:	2 OF
	MAINTENANCE		v. 0000	1	FLIGHTS: 30829	
ITEM		- PONE PRIO		-1.1	CORRECTIVE ACTION	
7	PI 25-60-07. Fire	Extinguisher - cock	nit	15/W Q	5 listed	
		e Extinguisher - cabi				
INIT		3000				
RG -		RII Y:	luna	SIGN:	DATE A	- 4 -15 INSI
TEM		[Ril]T:	INIRG	CERT TYPE: A	#	
8	27-05-01, Replace E	levator & Rudder Ca	ibles.	Kuble Broke	cold Cables/	ore Rueli
INIT				Tentioned	new Cubles,	ops cko
RG -				SIGN:		
AG -		RII Y:RG	N-	CERT TYPE AP	DATE 3-	
TEM		17.11(1.11(0)	114		#.	M
9	PI 57-20-01, Wing	Strut Fittings, Link &	etc	Links From	off struts, Re	perted
NIT				no Vamage	e @ this time	
RG -		RII Y:RG		SIGN:	DATE: 3-9	
EM		KIIITRG	IV.	CERT TYPE AP	# #	M
10	PI 61-05-01, Pro	p Balance/Vibration				
III						
G _				SIGN:	25.6	
10		RII Y:		CERT TYPE	DATE:	INSP
EM		1,30115	1.10		#.	
1				Test PI	73-13-01.	/
	PI 73-13-01 Fuel N	ozzles & Borescope				
IT						
G -		RII Y:RG N		SIGN:	DATE: 5	§-15 INSP
M		Trail Line In		ERT TYPE	AP#.	m
2	Replace Va	cuum Filter		Removed qu	nd replaced wi	thnew
T			-			
				IGN:		14 INSP

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 TTAF: 24334.3 ETT: 14470.7 PTT: 3595.2 PAGE: 3 OF DATE: 26-Feb-15 AREA: General STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Removel antennas Repaired or Replaced Doublers, Cleaned 13 Remove all antennas, clean all paint and Painted an Resealed with DC-4 INIT corrosion, re install with DC-4 un 5200 SIGN DATE: 3-5-15 INSP RG RII Y N.RG CERT TYPE AP #: ITEM Horizantal CW PI 27-40-01 rum is stere 14 INIT JO SIGN DATE 5/11/10 INSP RII Y. JOIN CERT TYPE: NO ITEM ADG SINT Cuff Completed 15 INIT bu SIGN DATE: 8/8/15 INSP RILLY: NEL CERT TYPE ITEM Replace Co Detector Installer New CO Detector 16 INIT In SIGN DATE 5/8/15 INSP RII Y CERT TYPE N. P. ITEM CV 40 2014-17-01 17 (W Par AD- SB acompless ment instruction. INIT 4 SIGN DATE: 4/8/4 INSP RILY N.h CERT TYPE A - / # ITEM INIT SIGN: DATE INSP RII Y N CERT TYPE

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO 732.1 DATE: 26-Feb-15 TTAF: 24334.3 ETT: 14470.7 PTT: 3595.2 PAGE: 1 OF AREA: Cockpit STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Remove windshields if they are scratched Now Arrworthy will Reschoole 1 fix the scratches or replace the windshield. INIT If windshieds are crazed replace them. re-seal & re-instal. RG SIGN DATE 4/18/15 INSP RILY NIRG CERT TYPE: A.P ITEM Install new starter switch NON ANWORTHY WILL Residule 2 INIT SIGN: RG DATE TAYING INSP RILY: NIRG CERT TYPE: A-P ITEM Remove nav flasher unit and change switch Note Airwests Will Arschielde 3 INIT SIGN RG DATE: 4/27/15 INSP RILY-NIRG CERT TYPE A. ITEM Removed pump Replaced Flap pump leaking O Rings/ using Kit # 1650-708-4 2170 Reinstaled ops CK ok INIT SIGN RG DATE: 3-5-15 INSP RII Y:RG N CERT TYPE 10 he ITEM Now Ar worthy will Reservate Paint glair shield 5 When Congrest INIT SIGN RG DATE: 4/28/19 INSP RILLY N.RG CERT TYPE: A.F ITEM NON Accorate will Resolde Install arm rest 6 INIT SIGN: RG DATE 408/13 INSP RII Y NIRG CERT TYPE: A.

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 DATE 26-Feb-15 TTAF: 24334 3 ETT: 14470.7 PTT: 3595.2 PAGE: 2 OF AREA: Cockpit STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Misc seat upholstery 7 Make all in cockpit fabric or vynal INIT not mix & match. RG SIGN DATE 5/7/15 INSP RILY N:RG CERT TYPE: A - P ITEM If WR retract catch catch is not original Removed old Replaced with New B replace with original INIT SIGN: RG DATE 5-5-12 INSP RII Y NIRG CERT TYPE AP # ITEM INIT SIGN DATE INSP RII Y N CERT TYPE # ITEM INIT SIGN DATE INSP RII Y N CERT TYPE #: ITEM INIT SIGN: DATE INSP RII Y N: CERT TYPE: # ITEM INIT SIGN DATE INSP RILY N CERT TYPE

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 DATE 26-Feb-15 TTAF: 24334.3 ETT: 14470.7 PTT 3595.2 PAGE: OF AREA: Cabin STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Roof leaks/Pax get wet 1 Need to spray water at all seems in roof INIT SIGN: DATE 5-5-15 RG INSP RILLY N RG CERTYPE ITEM Misc seat upholstery 2 Make all in cabin fabriv or vynal INIT not mix & match SIGN RG DATE 5/1/5 INSP RII Y N:RG CERT TYPE: ITEM Install good window bezles on all windows 3 in cabin and door INIT SIGN DATE 5 6/15 INSP RG RII Y: N.RG CERT TYPE: ITEM worth, will Reschalo Fix headset jack angles INIT SIGN RG DATE:5/7/15 INSP RILY N.RG CERT TYPE ANP ITEM INIT SIGN DATE: INSP RII Y: N: CERT TYPE: # ITEM INIT SIGN: DATE INSP RII Y N: CERT TYPE

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 DATE: 26-Feb-15 TTAF: 24334.3 ETT: 14470.7 PTT: 3595.2 PAGE: 1 OF AREA Paint STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Renevel Strut, Sundal, primed + Painted + Painstelled Paint RH wing strut 1 INIT SIGN: DATE 3-7-15 RG INSP RII Y N:RG CERT TYPE: 4P ITEM OK at this time Paint seat legs? INIT SIGN: RG DATE 5/7/15 INSP RII Y: NRG CERT TYPE AP # ITEM Paint floors & floor rails? 3 INIT SIGN RG DATE: 5/7/15 INSP RILY NIRG CERT TYPE: A.P # ITEM Paint baggage comp floor & walls? reprited OK at this 4 INIT SIGN RG DATE: 5/9/15 INSP RII Y: N.RG CERT TYPE: A+P Clock Renoved Form ITEM preeds Reinstalled tlockes reinstallad INIT SIGN DATE 5/6/5 INSP RII Y N:U CERT TYPE ITEM INIT SIGN DATE INSP RII Y N CERT TYPE

PM Air - NON-ROUTINE 270PA HOBBS: 6766.3 ETSO: 10300.3 PTSO: 732.1 DATE: 26-Feb-15 TTAF: 24334.3 ETT: 14470.7 PTT: 3595.2 PAGE: 1 OF AREA: Floats STARTS: 35969 FLIGHTS: 30829 MAINTENANCE DISCREPANCY CORRECTIVE ACTION ITEM Fix LH Bow 1 INIT SIGN: DATE: 5-5-15 RG INSP RILY N'RG CEBYLTYPE ITEM Install cletes 2 INIT SIGN DATE: 5-5-15 RG INSP RII Y: NIRG CERTIYPE ITEM Strip & pait decks silver 3 install Antiskid & Edge Sealer INIT SIGN: RG DATE 5/7 INSP RII Y N.RG CERT TYPE ITEM Repair any dammaged stringers, hatches, 4 gang-nut rails, Etc INIT SIGN RG DATE:5/7/15 INSP RII Y N:RG CERT TYPE: A.P ITEM INIT SIGN: DATE: INSP RII Y N: CERT TYPE # ITEM INIT SIGN: DATE INSP RILY N CERT TYPE

SECTION: 5.200 PAGE: 1 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

5.200 ADDITIONAL INSPECTIONS AND PROCEDURES

5200-05 SCHEDULED INSPECTION ITEMS

PI 05-20-01A DHC-3 YEARLY SYMMETRY INSPECTION	PI 05-20-01A	DHC-3	YEARLY	SYMME	TRY	INSPECTION
-----------------------------------------------	--------------	-------	--------	-------	-----	------------

N	# 2 10 PM DATE 2-3-15 TAT 24 334, 3	
In sa	spect the aircraft for symmetry; record the following measurements taken from the me points on both sides of the aircraft and record:	INITIALS
1)	Measure from OB wing control arm to the horizontal stabilizer forward attach points; Left 37 3". Right 28'2 125"	16
2)	Measure from OB wing control arm to the prop hub nut; Left 34'3", Right 34'3.25"	JO
3)	Measure from the horizontal stabilizer OB extremity (leading edge) to the Vertical Stabilizer top extremity (forward leading edge); Left 10 31, Right 10 3".	JIS
4)	Measure from the horizontal stabilizer OB extremity (leading edge) to the forward extremity of dorsal fin (forward leading edge); Left /3' / ". Right 13' .5".	JIS
5)	Measure the forward flying wires; Right 4'5.5", Left 4'5.5".	10
6)	Measure the aft flying wires; Right 4'8, 35, Left 4'8, 25	10
7)	Measure the tram wires; Top 10'6, 75". Bottom 10'6.75".	10
8)	Compare these measurements to the last recorded symmetry measurements recorded	US
Ref	F. PSM 1-3-2 Section 2 3	

SECTION: 5.200 PAGE: 2

REVISION: 6

MAINTENANCE MANUAL 02/01/13

PI 05-20-01B DHC-3 YEARLY RIGGING INSPECTION page 1 of 2	
N# 270 PADATE 2-26-11 TAT 24334,3	
Check and record the rigging of the:	INITIALS
1) When checking or adjusting rigging only use factory made control locks.	BH
 Aileron (with flaps up): Up 26.5° ± 1°, down 18.5° ± 1°, or up 5.2 – 5.6 inc down 3.54 – 3.95 inches. Reference point, trailing edge of IB flap. a) RH; Up 2.6 , Down 19 b) LH; Up 2.6 , Down 19 	ches,
 Elevators: Up 23° + 2° to -1°, down 15° + 2° to -1° or up 9.68 - 10.98 incl 6.18 - 7.5 inches. Reference point, top IB corner of elevator skin. Up 25 , Down U 	hes, down
 4) Rudder: Left & right 25° ± 1°, or 13.6 – 14.75 inches. Reference point, trainat top of tab. a) Left 25.5 , Right 2.5 . 	ling edge
 Stabilizer; nose up 4.5° ± 0.5°, nose down 3.5° ± 0.5°. a) Up 9.5 , Down . 	BH
6) Elevator trim: Up (flaps down) 5° ± 1°, down (flaps up) 5° ± 0.5°, or up (flaps up) 0.54 - 0.81 inches, down (flaps up) 0.61 - 0.74 inches. Reference point, tra of tab. a) Up	aps down) illing edge
7) Elevator servo: Up (elevators down) 10° ± 1°, down (elevators up) 23° ± 1° (elevators down) 0.63 – 0.77 inches, down (elevators up) 1.54 – 1.67 inches Reference point, trailing edge of tab. a) Up 10 , Down 27	or up s.
Rudder trim: Left & right 19° ± 1°, or 1.14 – 1.23 inches, Reference point, tedge, top of tab.	trailing

SECTION: 5.200 PAGE: 3 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-01B DHC-3 YEARLY RIGGING INSPECTION page 2 of 2

N# 270 PA DATE 2-26-15 TAT 24334.3	
9) IB nose flap, select 1:	INITIALS
 Factory de Havilland – down 35° ± 2°. For PT6 Otters without Harbour Air 9000 Lb STC – down 24° ± 2°. 	
For PT6 Otters with Harbour Air 9000 Lb STC – down 24° ± 2°, a) Down 23°.	B#
10) IB Trailing flap, select 1;	
 Factory de Havilland – down 60° ± 2° or 15.87 – 17.25 Reference point, intrailing edge. 	board
 For PT6 Otters without Harbour Air 9000 Lb STC – down 45° ± 2°. 	
 For P16 Otters with Harbour Air 9000 Lb STC – down 52° + 2° 	1000
a) Down 45	B#
11) OB nose flap, select 1:	
 Factory de Havilland – down 26° ± 2°. 	
 For PT6 Otters without Harbour Air 9000 Lb STC – down 189 + 29 	
 For P16 Otters with Harbour Air 9000 Lb STC - down 20 50 + 20 	
a) Down 19	T3.#
(2) Flap position measured on IB nose flap:	
a) Factory de Havilland & Harbour Air 9000 Lb STC - Cruise 0°	
Cruise	AH BHU
b) Factory de Havilland & Harbour Air 9000 Lb STC - Climb 15° Climb 15°	#4 Blu
c) Factory de Havilland & Harbour Air 9000 Lb STC - Take-off 30° Take-off 30°	NA BHA
d) Factory de Hayilland & Harbour Air 9000 Lb STC – Land 35° Land 35°	MA Stu
e) Factory de Havilland – Full (No flaps past Landing for9000 Lb STC) Full _0 K	NA 8Hac

Ref. PSM 1-3-2 Section 2-18, 2-19, & 2-20, VAZAR PT6A STC SA3777NM, and Harbour Air 9000 lb STC SA02735NY

SECTION: 5,200 PAGE: 4

REVISION: 6 EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-01C DHC-3 YEARLY CABLE TENSION INSPECTION

N# 270 YA DATE 2-26-15 TAT 24334.3	INITIALS
 Because cable tension varies due to temperate and the temperature the aircraft w be operated in. See PSM 1-3-2, part 2.18, 2.19, & 2.20 for correct tensions at the time the cables are checked. Enter tensions from PSM 1-3-2, part 2.20 in space marked target for each cable below. 	rill e _B#
2) Elevators; target 35 Lbs, actual tension 83 Lbs.	134
3) Rudder; target 85 Lbs, actual tension 83 Lbs.	TSH
Ailerons operating cable in wings; target 56 Lbs, actual tension 5 Lbs.	13#
Ailerons balance cable in wings; target 38 Lbs, actual tension 35 Lbs.	BH
Ailerons operating cable in fuselage; target 38 Lbs, actual tension 40 Lbs.	UH
Rudder trim; target 22 Lbs, actual tension 18 Lbs.	34
Stabilizer; target ZZ Lbs, actual tension 18 Lbs.	BH
Flap Interconnect tab (use 4, 1/16 DIA 7X7), target 22 Lbs, actual tension 20 Lbs,	BH
If there are any discrepancies, record on MF02 for correction.	NA BH

SECTION: 5.200 PAGE: 8

REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-03 DHC-3 12 MONTH CPCP AND STRUCTUR INSPECTION page 1 of 3

Pr	e inspection	INT.
L	Fold up side seats and remove the bulkhead seats; inspect for general condition, security paint condition and lube (2) and note any fasteners that need repaired.	13/
2	Remove the aft baggage compartment access panel and note any fasteners that need renaized	ISH
3.	Remove all tail access panels and note any fasteners that need repaired	3/4
4.	Remove the wing root-panels, wingtips, landing light cover(s) and all wing inspection and access panels and note any fasteners that need repaired.	BH
5.	Remove the belly and fuel bay panels and note any fasteners that need repaired.	134
_	spection	1 100
_	ckpit	
6.	Inspect all accessible wiring and electrical components. Check for wear, corrosion, general condition, and chafe protection.	BH
7,	Inspect all accessible plumbing. Check for wear, corrosion, general condition, and chafe protection.	BH
8.	Inspect all accessible engine and heater controls. Inspect all push/pull controls, rods, rodends, and bearings for wear, corrosion and general condition.	TSH
9.	Inspect all accessible structure. Check for corrosion, general condition, damage, loose rivets, and fasteners.	TSH
10.	Inspect fuel shutoff system for proper operation, wear, corrosion, general condition, and chafe protection.	BH
Ca	bin	1
11.	Inspect all accessible structure. Check for corrosion, general condition, damage, loose rivets, and fasteners.	BH
12.	Inspect all accessible wiring and electrical. Check for corrosion, general condition, damage, loose rivets, and fasteners.	TH
3	Remove the bulkhead seat posts and separate the steel end from the aluminum post; inspect for general condition, security paint condition and lube (3).	TSH
4.	Remove all 4 floor rails; inspect for corrosion, general condition, security paint condition, and lube (3).	BH
5.	Remove all 6 floor sections, inspect for general condition, security paint condition, dents, and soft spots.	BH
6.	Remove the mat in the baggage compartment; inspect for general condition, security paint condition.	13H
7.	Inspect all exposed areas for corrosion, general condition, paint condition and corrosion inhibitor.	B4
8.	Re-apply any missing paint and apply a good coat of Corrosion Block or equivalent corrosion inhibitor.	BH

Reference: Lubricant types

(1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

SECTION: 5.200 PAGE: 9 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-03 DHC-3 12 MONTH CPCP AND STRUCTUR INSPECTION page 2 of 3

	ockpit exterior	INT.
	 Inspect all wiring and electrical components, check for wear, corrosion, general condition, chafe protection and lube (2). 	TSA
20	. Inspect all plumbing, check for wear, corrosion, general condition, and chafe protection.	BH
21	 Inspect all engine and heater controls. Inspect all push/pull controls, rods rodends, and bearings for wear, corrosion and general condition. 	BH
	Inspect all structure, Check for corrosion, general condition, damage, loose rivets, and fasteners.	BH
23	Inspect fuel shutoff system for proper operation, wear, corrosion, general condition, and chafe protection.	754
Ca	abin exterior	-Vn
	. Inspect all wiring and electrical components, check for wear, corrosion, general condition, and chafe protection.	BH
25	. Inspect all plumbing, check for wear, corrosion, general condition, and chafe protection.	3#
26	 Inspect all structure, Check for corrosion, general condition, damage, loose rivets, and fasteners. 	BH
27	Inspect the fuel gallery area - fuel quantity X-mitters, cannon plugs, all wiring, fuel selector, check valve, quick drains, and all plumbing for wear, corrosion, general condition and leaks.	DH
	npennage & Tail	1
	Wing internal – inspect spars, ribs, stringers, and corrugations, all through every opening with light and mirror for loose rivets, fasteners, cracks, corrosion, general condition and lube (2).	BH
29.	Wing attach fittings – inspect internal and external front and rear spar IB end fitting area with light and mirror for loose rivets, fasteners, cracks, corrosion, general condition and attach points for security by vigorously shaking the wing and lube (2).	BH
30.	Wing spar attach – inspect internal and external fitting area with light and mirror for loose rivets, fasteners, cracks, corrosion, general condition, and attach points for security by vigorously shaking the wing and lube (2).	BH
31.	Wing struts – inspect struts, and attach fittings, for loose rivets, fasteners, cracks, corrosion, general condition and attach points for security by vigorously shaking the wing and lube (2).	134
32.	Inspect pitot/ststic system and lighting wiring throughout its entire length for general condition and wear.	13#
Wi	ngs & Struts	
33.	Wing internal – inspect spars, ribs, stringers, through every opening with light and mirror for loose rivets, fasteners, cracks, corrosion, general condition and lube (2).	BH
34.	Wing spar ends, and spar and strut attach fittings – inspect internal and external front spar, rear spar IB end fitting area and strut fitting area with light and mirror for loose rivets, fasteners, cracks, corrosion, general condition. Check attach points for security by vigorously shaking the wing with someone feeling the fittings for movement and lube (2).	BH
	Wing srtruts - inspect strut, attach fittings, and hardware for cracks, corrosion, general condition and lube (2).	BA
36.	Inspect pitot/ststic system and lighting wiring throughout its entire length for general condition and wear.	BH

SECTION : 5.200 PAGE : 10 REVISION : 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

P1 05-20-03 DHC-3 12 MONTH CPCP AND STRUCTUR INSPECTION page 3 of 3

Corrosion protection application	
Cockpit & Cabin	
37. Fog accessible cockpit surfaces.	10
38. Fog accessible cabin surfaces.	10
39. Fog entire area under cockpit,	-
40. Fog entire fuel bay area under cabin.	10
Empennage & Tail	10
4). Fog entire vertical stabilizer and tail from inside working your way out through the cabin.	10
42. Pog entire vertical stabilizer from any and all openings.	10
43. Fog entire Horizontal stabilizer from any and all openings.	10
44. Fog entire empennage and tail from any and all openings.	10
45. Fog entire rudder, elevators and trim tabs from any and all openings.	JA
Wings & Struts	100
 Fog entire RH & LH wing from any and all openings. 	15H
47. Fog entire RH & LH flap and IB nose flap from any and all openings.	13#
48. Fog entire RH & LH aileron and OB nose flap from any and all openings.	131
49. Fog entire RH & LH strut from any and all openings.	BH
Post inspection re-assembly	DI
Note: Put all hardware in a container of Corrosion Block and install wet.	
50. Replace every screw, bolt, washer and nut in the floor assemblies with SS equivalents	3
 Re-apply a good coat of Corrosion Block or equivalent corrosion inhibitor or lube (2) to all fasteners and entire nutplate. 	10
Note: Put all hardware in a container of Corrosion Block or equivalent and instal Apply a coat of Corrosion Block or equivalent to all surfaces of all under floor har and all nut plates.	l wet. dware
2. Re-install the belly and fuel bay panels.	19
 Re-install the wing root-panels, wingtips, landing light cover(s) and all wing inspection and access panels. 	51
Re-install dorsal fairing and all tail access panels.	SO
Re-install the aft baggage compartment access panel.	16
6. Re-install the floor rails, floor panels and bulkhead posts with plastilube on both ends of	OIL
the post where it slides into the ceiling and lower steel fitting. 7. Re-install (if installed) the mat in the baggage compartment.	10

Reference: Lubricant types

(1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-3purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

SECTION: 5.200 PAGE: 14 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-05 DHC-3 CONTROL SYSTEM AND CABLE INSPECTION 1 OF 4

Pre ins	Pection TAT 24 334.3	INIT
Remov	the following inspection panels or fairings to inspect cables, pulleys, fairings, & system cor	mnonente
lv.	RH of pilot seat for elevator system. & headliner to access to rudder systems, aff &	1341
2,	Cabin headliner - center and loosen side & aft panels to access wing root area to inspect aileron, flap, & trim systems.	134
3,	Aft baggage compartment panel.	3月
4.		BH
5,	Cabin outside on lower RH side of fuselage; behind strut & behind cabin door.	38
6,	RH & LH Wing - wing root inspection panel on top of aircraft, all 4 under wing, mid aileron, and in trailing edge cove mid aileron.	BH
7.	Tail - RH lower hinged rudder quadrant, RH upper elevator quadrant, LH horizontal stabilizer actuator, LH rudder trim actuator.	BH
	For every cable at every pulley and fairing WITH SOMEONE MOOVING THE CONTROLLS FULL TRAVEL	
a)	Inspect cable throughout the full area the cable can come in contact with the pulley or (or anything else that could cause wear) and especially where cable contacts the pulley fairlead when the control locks are in place or the aircraft is in straight an level flight:	or
b)	Inspect both sides (when possible) of every pulley and fairlead with a paper type towel frayed strands or jiggers.	for
	AND	
c)	Clean the cable with solvent or light oil and visually inspect them for blended, worn or areas.	shinny
	AND	
d)	If there is more than 40 to 50 % blending of any 1 or more individual strands of any ca any area the cable must be replaced prior to flight.	ble in
	AND	
e)	If there is blending of less than 40 to 50 % but more than 20 % of any strand of cable it area the cable must be put on the follow up items list for repeat inspection until it is re	n any

SECTION: 5.200 PAGE: 15 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-05 DHC-3 CONTROL SYSTEM AND CABLE INSPECTION 2 OF 4

N# 270PA DATE 2-24-15 TAT 24334.3

	276 PA DATE 2-24-15 TAT 24334. 3	
1.	Inspect all engine controls in cockpit through their entire range of travel. Check all push/pull rods, cables/housings, rodends, bearings/pivot bushings, and where the housings and levers are secured to the structure. Check for smooth operation, wear, chafing, all rivets for any signs of looseness or wear, fasteners for security and lube everything as applicable. Check: throttle/ power lever, propeller, fuel condition, and emergency fuel controls.	1341
5	 Check, emergency fuel shutoff, inertial separator, and cabin heater controls 	BH
	Yoke - check ailerons and elevators for full, free, and smooth operation throughout its full range of travel.	SH
3.	Ruder - check for full, free, and smooth operation throughout its full range of travel.	13 H
4.	Rudder, elevator and aileron trim – check for full, free, and smooth operation throughout its full range of travel.	134
5.	Yoke - inspect welds at bottom of upright and casting at top of upright especially the fasteners that hold the casting to the yoke	BH
6.	Ailerons – eables, chains, sprockets, pulleys, and fairleads: in the yoke, going up both side walls, into the cabin, and lube (2) chins, sprockets, pulleys and fairleads.	TH
7,	Rudder - pedals, levers, push/pull rods, rodends, linkages; adjusting mechanism, and attaching hardware for condition, corrosion, wear, security and lube (2).	SH
8.	Flap system - check the pump, selector, and all plumbing for leakage, security, properly smooth operation throughout its full range of travel, wear and lube (2).	134
9.	Rudder trim box - check cables, spools/drums, guides, pulleys, and fairleads for condition, security, evidence of wear, lube (2).	召升
10.	Elevator trim system - check cables, spools/drums, guides, pulleys, and fairleads in cockpit area for condition, security, evidence of wear, lube (2).	BH
11.	Alleron trim mechanism - check the bungee, gears, and levers for excessive wear, and lube (2)	134
12.	Fuel selector - from the forward drum in cockpit, down through the floor, lube (2) all pulleys, fairleads, drum, and mechanism.	3H
_	in Internal	
	Ailerons - check directional cables and pulleys from the forward (cabin) circuit bellcrank, to/through the cabin at the wing root, lube (2) all pulleys, fairleads, drum, and mechanism.	BH
_	Ailerons - check balance cables and pulleys from the cabin wall at the wing root to the other cabin wall at the wing root, lube (2) all pulleys, fairleads, drum, and mechanism.	BH.
	Flap system – check actuator, ratchet valve, thermal relief valve, bell cranks, push/pull rods, rodends, linkages, and all plumbing for leakage, condition, security, wear and lube (2).	131
16.	Rudder and elevator trim - check from cockpit sealing, through cabin and baggage compartment and lube (2).	13H
17.	Flap interconnect - cables from flap belcrank in cabin ceiling through cabin and baggage compartment and lube (2).	BH

Reference: Lubricant types

(1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

SECTION: 5.200 PAGE REVISION:

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-05 DHC-3 CONTROL SYSTEM AND CABLE INSPECTION 3 OF 4

N# 270 PA BATE 2-36-15 TAT 24334.3	
Cabin Exterior	
18. Flap system outside (both sides) – push/pull rods and rodends; inspect for condition, security evidence of wear. Pay extra attention to the rods and rollers; make sure the rollers roll freely, are not worn and are adjusted snug so the rod will not vibrate and lube (2).	1511
 Rudder and elevator control cables RH 2 inspection panels lube (2). 	召升
 Yoke – inspect welds at bottom of upright for cracks, any sign of bending or deformation and corrosion. 	T TH
 Yoke – inspect hardware and surrounding area where yoke is secured to the structure. 	BH
 Atleron – yoke cables, chains, sprockets, pulleys, and fairleads in the yoke, and going into the walls and lube (2) chins, sprockets, pulleys and fairleads. 	e BH
23. Aileron - cables to the side walls cables and all pulleys, lube (2) all pulleys and fairleads	BH
 Elevator – lower yoke lever assembly, Elevator Push/Pull rod, rodends, triangle bellcrank, bearings and pivot areas, and lube (2). 	BH
25. Elevator - cables to the side walls cables and all pulleys, lube (2) all pulleys and fairleads	134
 Ruder – torque tube/bar, belcranks, bearings system for corrosion, condition, security, evidence of wear and lube (2). 	TSH
 Rudder – cables to the side walls cables and all pulleys, lube (2) all pulleys and fairleads. 	TSH
 Water rudders – check control cables and all pulleys, lube (2) all pulleys and fairleads. 	BI
 Fuel selector cables and all pulleys, from the cockpit floor to the selector & drum, lube (2) all pulleys, fairleads, drum, and mechanism. 	BA
 Inspect the fuel shutoff, and cabin heater systems and plumbing for corrosion, condition, security, evidence of wear and lube (2). 	T3H
Wing	
31. Flap controls – inspect internal and external pushrods, rodends, both bellcranks, both pivot brackets, and roller guides at IB wing root, from wing root all the way to the middle of the aileron for security, general condition and lube (2).	134
 Aileron controls – inspect cables, pulleys, wheel pulley, bellcrank, pushrods, and rodends from wing root all the way to the aileron, for security, general condition and lube (2). 	DH
A CAN DESCRIPTION OF A CONTROL OF	

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(2) (3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

SECTION : 5.200 PAGE 17 REVISION:

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 05-20-05 DHC-3 CONTROL SYSTEM AND CABLE INSPECTION 4 OF 4

N# 270 PA DATE 2-26-15 TAT 24 334.3 Empennage Internal	
 Rudder – check control cables, bellcrank/quadrant, push/pull rods, rodends, and supports to the fuselage and area of fuselage that supports it, and lube (2) all pulleys and fairleads. 	13 H
54. Elevator - check control cables bellcrank/quadrant, push/pull rods, rodends, and supports to the fuselage and area of fuselage that supports it, and lube (2) all pulleys and fairleads.	134
 Elevator and rudder – check all pulleys in cluster just aft of baggage compartment BH for bearing or grove wear. 	BH
 Rudder trim - check cables from baggage compartment to end of tail, lube (2) all pulleys and fairleads. 	134
 Elevator trim – check cables from baggage compartment to end of tail, lube (2) all pulleys and fairleads. 	1314
 Elevator and rudder trim – check all pulleys and adjuster in cluster just aft of baggage compartment BH for bearing or grove wear. 	1514
 Flap inter connect cables from baggage compartment to end of tail, lube (2) all pulleys and fairleads. 	BH
Tail External	-
40. Rudder - check push/pull rod, rod end, hardware, and lube (2).	134
41. Elevator - check push/pull rod, rod end, hardware, and lube (2)	BH
 Rudder trim – check tab for delamination, push rods, rodends hardware, cables, screw jack and pulleys in tail, lube (2) all pulleys, fairleads, drum, and mechanism 	314
 Elevator trim m- check cables, screw jack, pulleys, push/pull rods, and rodends in tail, and lube (2). 	184
 Flap interconnect – check cables, levers and pulleys, push/pull rods, and rodends in tail, lube (2). 	BH

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent. (1)

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.

(2) (3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

SECTION : 5.200 PAGE : 26 REVISION : 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 25-60-04 FIRST	AID KIT INSPECTION	WORKSHEET
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N# 270 PA DATE 2-25-15 TAT 24334.3

After inspecting and if needed restocking a First Aid Kit, place a self-adhesive tamper seal across the edge of the lid so that if the kit is opened the seal will be broken. When the seal is broken, or the annual inspection is due, the First Aid Kit is inventoried, inspected, and resealed with a new label. Write the date the seal is installed on the First Aid Kit and clear the discrepancy.

	For First Aid Kit That Have A	Inventory	List Inside	The Box
--	-------------------------------	-----------	-------------	---------

INITIALS

1. Inspect First Aid Kit per checklist inside First Aid Kit.

2. Record expiration date (if applicable)

13 世

For first aid kit that do not have a inventory list inside the box Ensure The Following Are In The First Aid Kit.

300		Otters	Beavers
Des	cription of item (or equivalent)	Per Kit Initials	Per Kit Initials
1.	Adhesive Bandage compresses, 1-inch	1 34	2 After
2.	Antiseptic swabs Exp Date: 01/19	2 13/4	2
3.	Ammonia Inhalants Exp Date: 11/13	1 34	1 - /
4.	Bandage compresses, 4-inch	8 34	1 /
5,	Triangular bandage compresses, 40-inch	5 13#	1
6,	Arm splint, non-inflatable	48 1	0
7.	Leg splint, non-inflatable	H 35 1	0
8.	Roller bandage, 4-inch	4 13 4	0
9.	Adhesive tape, roll	1 13 #	1
10.	Bandage scissors	1 34	0 //
11.	Protective gloves	1 77.4	0
12,	Scissors & Forceps	0 m	1 7

All aircraft

- All contents in the kit are in good condition, dry and sealed.
- The tamper seal has been installed per above instructions.

3. Enter Date on Tamper seal 2-26-15.

TSH TSH

Ref. FAR 121,309, 135,177, and Appendix A to Part 121

SECTION: 5.200 PAGE: 28 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

5.200 27 FLIGHT CONTROLS

PI 27-05-01 REPLACE ELEVATOR AND RUDDER O	CABLES
-------------------------------------------	--------

N# 270 PA DATE 2-26-15 TAT 24334.3	
For the DHC-3 & -2 change both forward rudder control cables.	NITIALS NA B#
 For the DHC-3 only change both forward elevator control cables. 	134
Rig the control travel	
 Rig the rudder: For the Otter – left & right 25° ± 1°, or 13.6 – 14.75 inches. Measured from trailing edge at top of tab. For the Beaver – left & right 25° ± 2°, or 11.4 inches ± 0.9 inches. Measured from 	BH
bottom aft end or bottom of trim tab in neutral.	NX 814
4) For the Otter - up 23° + 2° to -1°, down 15° + 2° to -1° or up 9.68 - 10.98 inches, down 6.18 - 7.5 inches. Reference point, top IB corner of elevator skin.	BH
Adjust the cable tension:	
Because the cable tension varies due to temperate the aircraft will be operated in. For the PSM 1-2-2, part 2.40.2A and for the DHC-3 See PSM 1-3-2, part 2.20 correct tensions a cables are checked. Enter tensions from PSM in space marked target for each cable below	t the time the
5) Elevators; target \$5 Lbs, actual tension \$5 Lbs.	BH
6) Rudder; target \$5 Lbs, actual tension \$3 Lbs.	BH

SECTION: 5.200 PAGE: 45 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

5.200-57 WING STRUTS

PI 57-20-01 WING STRUT, END FITTINGS, LINKS, AND LUG INSPECTION

Aircraft: 270 Date: 3-7-15 TAT: 2433-13 Page 1 0f2

WING STRUT	1	NITIAI	S
	LH	RH	Insp
Support the wing under the main/front spar OB of the wing strut.	134	134	N/A
Remove the cotter pins and nuts from the upper and lower strut bolts.	BK	15#	N/A
 Adjust the wing up and down slightly by hand to remove the bottom bolt. 	134	34	N/A
 Lift/work the wing sufficiently to remove the upper strut from the fuselage fitting. 	13/4	184	N/A
Remove the lower strut bolt and strut.	BH	BH	N/A
 DHC-3 only – remove the cotter pins and nuts from the upper and lower strut link bolts. 	BH	BH	N/A
 DHC-3 only -remove the strut link bolts and links remember the orientation of the link in the strut for reassembly. 	BH	BH	N/A
8) Thoroughly clean the strut ends, links (DHC-3 only), fuselage and wing fittings.	134	BA	N/A
 Inspect the strut ends and links (DHC-3 only) for any signs of corrosion or damage. 	134	1314	N/A
10) Inspect the fuselage lugs and wing lugs for any signs of corrosion or damage.	3H	BH	N/A
 Inspect bolts for cracks, bending, corrosion, thread damage or any other signs of damage, if damaged replace with the proper part # bolt. 	734	T3H	N/A
12) Inspect all nuts and washers for cracks, corrosion, thread damage or any other signs of damage, if damaged replace with the proper part # nut or washer. Self locking nuts must be replaced if they can be threaded onto a bolt past the locking device without the use of tools.	134	1214	N/A
 If there is any surface corrosion, a little corrosion can be blended out with fine sand paper. 	BH	TH	N/A
14) DHC-3 – the minimum thickness of the fuselage lug after all corrosion is removed is 0.955 inches in any one location (Per AD 83-02-01, ref SB 3/37RA).	13 H	THE THE	pto
15) All other fittings and lugs are allowed to have very little thickness reduction.	BH	BH	H.
16) After all corrosion has been removed and the thickness reduction if any has been determined to be acceptable, etch and alodine all aluminum parts, prime and paint all strut ends and links (DHC-3 only) and fuselage lugs and wing lugs.	功井	BH	m
NOTE: During assembly ensure everything is adequately coated with	Cor-Ban	27.	
 17) DHC-3 only – orientate and install strut links into strut ends and insert bolts (with washer for Harbour Air struts only) from the top down through the strut. DHC-3 struts – bolt C3W114-3 Harbour Air DHC-3 struts – bolt NAS6212-58D & washer AN960D1216L. 	13-11	UH	an
 DHC-3 only – install washer and nut finger tight. DHC-3 struts – washer AN960-916 and nut AN320-9 Harbour Air DHC-3 struts – washer AN960D1216L & nut AN320-12. 	BH	3H	n

SECTION: 5.200 PAGE: 46 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 57-20-01 WING STRUT, END FITTINGS, LINKS, AND LUG INSPECTION

Aircraft: 270 PA Date: 2-15-15 TAT: 2 + 33 43 Page 2 0f 2

WING STRUT		INITIALS	
10\(\frac{1}{2}\) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LH	RH	Insp
 Slide the strut on the lower (fuselage) fitting, align the bolt holes and install the bolt with washer under head. ▶ DHC-3 struts – bolt C3W129-3 & washer AN960D1216 ▶ Harbour Air DHC-3 struts – bolt NAS6212-38D & washer AN960D1216. ▶ DHC-2 bolt AN180C26 (SB 2/4) & washer AN960-1016. 	BH	BH	N/A
 20) Lift/work the wing sufficiently to slide the upper strut end over the (wing) fitting and align the bolt holes and install the bolt with washer under head DHC-3 struts – bolt C3W128-3 & washer AN960D1216L Harbour Air DHC-3 strut – bolt or NAS6612-38D & washer AN960D1216. DHC-2 bolt C2W497 & washer AN960-1016. 	BH	13#	N/A
 Ensure that the strut is orientated properly and install the upper washer and nut finger tight DHC-3 struts – washer AN960D1216 & nut AN320-12. Harbour Air DHC-3 struts – washer AN960D1216 & nut AN320-12. DHC-2 washer AN960-816 & nut AN320-8. 	BH	BH	N/A
 Install the lower washer and nut finger tight. DHC-3 will require 2 washers due to the tie down ring being removed to prevent corrosion. ➤ DHC-3 strut - 2 Ea. washer AN960D1216 & nut AN320-12 ➤ Harbour Air DHC-3 strut - washer AN960D1216 & nut AN320-12. ➤ DHC-2 washer AN960-1016 & nut AN320-10. 	3H	1314	N/A
 Tighten each nuts so both washers are snug and do not rotate, tighten to align next cotter pin hole and install cotter pin. a) Upper cotter pin. DHC-3 strut - MS24665-376. Harbour Air DHC-3 strut - MS24665-376. DHC-2 struts - MS24665-372. 	BH	SH	ne
 b) Lower cotter pin: DHC-3 strut – MS24665-376. Harbour Air DHC-3 – strut MS24665-376. DHC-2 struts – MS24665-372. 	BH	T3H	h
 c) DHC-3 only - 2 strut link bolt cotter pins: DHC-3 struts - MS24665-374. Harbour Air DHC-3 strut - MS24665-376. 	BH	TH	u
 Apply corrosion protection, spread a thin even coat of Cor-Ban 27 to all bare areas, fasteners and pack in all castle nut castellations. 	BH	13升	N/A

Ref. PSM 1-2-3, PSM1-3-2, and Harbour Air - 9000 lb STC \$A02735NY

SECTION: 5.200 PAGE: 47 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 57-20-02 AOG GROSS WEIGHT KIT STRUT CUFF INSPECTION

N# 270 PA DATE 2/25/15 TAT 2433 4.3

 Familiarize yourself with AOG STC SA00438NY & MMS-191-95-001. 	
2) Remove RH & LH wing strut cuff Per AOG instructions.	INITIALS
Inspect RH & LH wing strut and wing strut cuffs Per AOG instructions.	MM
Protect RH & LH struts Per AOG instructions.	M
Re- install RH & LH strut cuffs Per AOG instructions.	MM
 Inspect Wing Strut and Cuff IAW STC instructions. 	pay ore
	m

Ref. AOG STC SA00438NY and AOG MMS-191-95-001

SECTION: 5.200 PAGE: 48 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

5.200-61 PROPELLER

PI 61-05-01 PROP BALANCE, VIBRATION ANALYSIS & POWER RUN WORKSHEET

N#: 270 PA DATE: 2/25/15 TAT: 2433 7.3 Page 1 of 3

SET-U		INT
1.	The one of the orease time.	10
2,	The proper ariginates	137
3,	The state of the condition.	10
	If non scheduled Prop balance i.e. Pilot discrepancy check Beta Ring for proper and uniform adjustment.	JO
5,	at top of Odd.	10
6.	If the reflective tape came off, replace reflective tape.	10
7.	Rout cables in lower cowl and out along cowl and fuselage, secure with duct tape and rout into co-pilot door window.	10
8.	Attach wiring to Channel No. 1A and turn power on for self test.	JA
PROP	BALANCE CHECK:	20
9.	Select PROPELLER BALANCE from Main Menu and Select New Job.	TIA
10.	Set N#; move curser after each entry and press START.	78
11.	Select IDC & Press START.	70
12.	Select Horsepower and press START.	JA
13.	Leave sensitivity at default setting and press START.	
14.	Adjust photocell so it aligns with reflector tape and the indicator light on the back of the photocell flashes at its fastest rate, tighten the velocimeter.	10
15.	Start the engine and cycle the prop 2 times to get all the air out of the hub.	20
16.	Using RPM on Vibrex 2000A, adjust PL to 1900 for -34 and 1800 for -135A and allow to stabilized and press START.	56
17.	When the Vibrex unit has finished collecting data press START.	11
18.	If prop balance is within limits; less than 20 IPS (.05 IPS preferred) record IPS: 447, Clock Angle: 111 and skip to #41.	الد
	PROP BALANCE RUN:	
19.	If the results are not acceptable shut down engine and remove all existing balance weights on the spinner bulkhead and re-do steps 9 to 17.	ng or
20.	Observe display note and press START.	
21.	Record the solution IPS: , Clock Angle: and power off the Vibrex unit.	
22.	Place clock angle card on spinner dome with the red writing facing forward and the arrow pointing in the wrong direction.	
23.	Place as close to the recommended weight to the spinner screw as close to the recommended clock angle as possible.	V

19@1:58

SECTION: 5.200 PAGE: 49 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 61-05-01 PROP BALANCE, VIBRATION ANALYSIS & POWER RUN WORKSHEET

SECOND PROP BALANCE RUN:	INT
24. Turn on the Vibrex unit.	No
25. Select PROPELLER BALANCE from the Main Menu screen.	1
26. Select CONTINUE CURRENT SESSION.	
 Edit the exact weight and the exact clock angle into the Vibrex 2000P and press START. 	
28. Verify changes and press YES.	
 Using RPM on Vibrex 2000A, adjust PL to 1900 for -34 and 1800 for -135A and allow to stabilized and press START. 	
30. When the Vibrex unit has finished collecting data press START	-
31. Observe display note and press START. Observe note on unit	-
32. Record the solution IPS:, Clock Angle: and power off the Vibrex unit.	
 Place clock angle card on spinner dome with the red writing facing forward and the arrow pointing in the wrong direction. 	ne
34. Place as close to the recommended weight to the spinner screw as close to the recommended clock angle as possible.	
HIRD AND SUBSEQUENT PROPELLER BALANCE RUNS	
3 rd solution IPS: Clock Angle: and power off the Vibrex unit. 4 th solution IPS: Clock Angle: and power off the Vibrex unit. 5 th solution IPS: Clock Angle: and power off the Vibrex unit. 36. Press the INSTALL PERMANENTLY key and Input the exact distance the weights will be moved for permanent installation into the Vibrex 2000P and press START.	
 The solution is the correct amount of weight to add to a single point for proper balance. If the weight cannot be placed at the exact location or needs to be divided between 2 fasteners; press the AT [XX:XX] key and if needed press the SPLIT WEIGHT KEY. Enter the angle or angles available for the weights and press START. 	
39. add the weight recommended to the new location(s).	1
40. Re-do step 25, 26, 27, 29, 30, 31 &32 as a confirmation run.	-
41. Record the solution IPS: and Clock Angle: and press DONE from the Prop Balance Quality screen.	10/1
not shut down save the prop balance and select spectrum analyses	
BRATION ANALYSIS	
42. Press the SPECTRUM ANALYSIS key from the Main Menu screen.	1
43. Confirm/select #1, A and 0-<600,000 RPM and push Start if OK.	20
44. Using RPM on Vibrex 2000A, adjust Prop to 1900 for -34 and 1800 for -135A and	n
orque to 45, allow to stabilize and press START.	en
45. It will take around 5 seconds to complete, record the Ng speed 96, press START to save.	in
46. Perform power run and record base line data on next page:	TA

SECTION: 5.200 PAGE: 50 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 61-05-01 PROP BALANCE, VIBRATION ANALYSIS & POWER RUN WORKSHEET

N#: 27084 DATE: 2/25/15 TAT: 2+33 4.3 Page 3 of 3

NOTE: Take All Readings With Starter Generator off and Bleeds off

PRES, ALTITUDE			
START TEMP:	700	OAT:	68
	IDLE	CRUISE PT6A-135(A): Torque 40, Np 1800 PT6A-34(A): Torque 40, Np 1900	TAKE-OFF PT6A-135(A): Torque 59, Np 1900 PT6A-34(A): Torque 58.7, Np 2200
TORQUE	3	25	30 50
PROP RPM(Np/N2)	860	1900	1900
ITT/T5	480	510	440 600
GG % RPM (Ng/N1)	52	90	92 100
FUEL FLOW GPH	15.6	43.1	46 625
OIL TEMP	50	50	50
OIL PRESSURE	95	95	95
After recording all reading	ngs turn Generator	back on, let the system charg	e at 65% and record:
VOLTS/AMPS	28/11	1	

Ref. Propeller Balance:

More Program Appendix C Rev. 2

Hartzell Installation and Operation Manual 139 Maintenance Practices 6.

Ref. Engine Vibrational Analysis:

Chadwick-Helmuth, User Guide No. 13841-6

More Program Appendix C Rev. 2

SECTION : 5.200 PAGE : 52

REVISION: 6

EFFECTIVE: 02/01/13

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MAINTENANCE MANUAL

5.200-73 ENGINE FUEL & CONTROLS

14. Inspect Combustion Chamber Liner for condition

PI 73-13-01 FUEL NOZZLE REPLACEMENT AND BORESCOPE INSPECTION
WORKSHEET
Page 1 of 2

DATE: 2/25/15 TAT: 24334.3 N#: 270 PA INITIALS 1. Perform Power Recovery Wash BH Remove Fuel Nozzles Remove cowling. TH Remove safety wire, bolts and lock-plates reinstall bolts finger tight. CAUTION: If bolts have not been removed for a long time, the ends may have a corrosion buildup on them. If the bolt is not easy to turn when taking out it must be worked in and out and removed slowly to prevent the bolt from braking of in the burner can. If this happens the bad bolts should be replaced with the shortest bolt in the IPC 4. Slide all fuel transfer tubes all the way onto a fuel nozzle. CAUTION: some inlet adapters only allow transfer tubes to go in part way on 1 side do not use excessive force the transfer tubes will bend. CAUTION: Never remove the fuel nozzles and the igniters at the same time. CAUTION: Never touch the tip of the new or removed fuel nozzles. Acid and oil from your skin can cause corrosion resulting in a poor spray pattern and requiring tip replacement. Remove fuel nozzle assembly, transfer tube and sheath as a unit. BH Remove the transfer tubes from the nozzle assembly and remove O-rings (soak o-rings in MEK and they will be easier to remove). 13# 7. Clean transfer tubes and inspect for corrosion, wear, and damage. Discard any BH bent or otherwise unserviceable transfer tubes. 8. Fuel Manifold Inlet Nozzle: NA For Engines with a Start Flow Control: Note the position of the fittings in the inlet adapter and remove the fittings. Replace the o-rings and install the BH fittings in the new adapter pointing in the proper direction. OR For Engines without a Start Flow Control: Remove the inlet adapter from the fuel nozzle assembly removed from the 6 o'clock position and attach the old BH inlet adapter with new o-rings to the new fuel nozzle for the 6 o'clock position. Install new o-rings on both ends of all fuel transfer tubes use engine oil to lube 3+ 10. Position the sheath over the fuel nozzle assembly, make sure the pin lines up and the sheath makes true and full contact with the fuel nozzle assembly mating TSH surface. 11. Insert 2 transfer tubes into 1 side of each fuel nozzle assembly. 10 Perform Borescope inspection: 12. Inspect Compressor Turbine blades for condition M 13. Inspect Compressor Turbine Vane Ring, Shroud Segments etc. for condition ne

SECTION: 5.200 PAGE: 53

REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 73-13-01 FUEL NOZZLE REPLACEMENT AND BORESCOPE INSPECTION WORKSHEET

Page 2 of 2

N#: 2708A DATE: 2/25/15

INITIALS Mach/Inco

P. AND SAN S	Mech/Insp
Installation	
15. Starting with the bottom fuel nozzle install all fuel nozzles, sheaths, gaskets and bolts in the burner can only tighten bolts finger tight. Viewed from the pilots seat the secondary fuel nozzles go in the 6, 7, 8 and 14 positions.	50,m
NOTE: The raised bead on the gasket coes to the burner can	-
CAUTION: To avoid possible failure of the stainless steel gasket it is best to line up the sheat insert the bolts into the holes before inserting the fuel nozzle assembly into the burner can, this gasket from being miss-aligned and getting damaged during installation.	h and gasket and will prevent the
16. With all bolts finger tight, slide fuel transfer tubes into position. If bolts are not to loose and nozzles are positioned perfectly the tubes should slide in with little force, to much force will damage the SS gasket and could damage the o-ring and bend the transfer tube.	IN M
17. After all transfer tubes are properly positioned and everyone is confident that no o-rings or gaskets are damaged, remove the bolts from 1 fuel nozzle at a time and insert locking plate, reinstall bolts finger tight.	10 10
 Pre-torque all bolts to 15 – 20 inch-pounds. 	(P 1 m
 Final torque all bolts to 32 – 36 inch-pounds. 	in I in
Connect fuel inlet lines to inlet adapter and tighten.	10 / WZ
 Safety wire all fuel nozzle bolts, inlet line coupling nuts and jam nuts. 	10/2
22. Run engine and check for fuel leaks.	36/102
23. Reinstall cowling.	JD

Ref. Fuel Nozzles

PWC MM 73-10-05

PWC IPC 73-10-04

PWC IPC 73-10-05

Ref. Borescope

Borescope Inspection Manual, PWC 34989

PWC MM 72-00-00 Engine Inspection 8.

SECTION : 5.200 PAGE : 22

REVISION: 6 EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

5.200-25 EQUIPMENT AND FURNISHINGS

PI 25-60-01 LIFE JACKET INSPECTION/REPLACEMENT WORKSHEET

N# 210/17 DATE 2/2	7/// TAT 2433	4.3
Install or confirm that there is of 2. Record inspection due dates of Life Jacket Model No.: Gr A-18 Life Jacket Model No.:	Life lackets installed	the Aircraft. Due date: May 2016 Due date: Due date: Due date: Due date: Due date:

SECTION: 5.20 PAGE: 24 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

P1 25-60-02B SINGLE CELL PERSONAL FLOTATION DEVICE INSPECTION WORKSHEET

MODEL No.: 64-12 SERIAL No(s).: B F6903	- 124612	Aucoin	1 -52 -2
A94435 . C55 B 48740 . (322)	311 A9887	A18062	C57253 A74521
			7.

Promech Air will do the following inspection on TSO C72* (GA-12 and AV-8or similar) Individual Floration Devices:

Yearly from the date of manufacture.

Any time a life preserver is removed from its pouch or bag.

For New life preservers only item 11 needs to be completed.

		INITIALS
1,	holes, punctures, broken parts, damaged parts, missing parts, or evidence of being inflated using the CO2 cartridge(s). If any of these are present see item 13 below.	M
2.	Visually inspect all straps. Check all stitching and the web material for wear and general condition.	w
3,	Inspect inflators for general condition, and presence of safety pin or wire.	u
4.	If cleaning is required; use mild laundry soap and water. Rub gently. Do not scrub or use abrasive cleaners. Rinse thoroughly with fresh water, let air dry, when thoroughly dry lightly coat with tale.	au
5.	Inflate the life preserver from a clean and dry air source. Let the life jacket set for 4 to 24 hours; ensure that the life jacket has not lost an excessive amount of air for the time it has been inflated. If the life jacket looses an excessive amount of air see item 13 below.	w
6.	Remove all air with a vacuum source (an air operated sprayer using the pick-up hose for vacuum works well) to suck air out of the oral tube. Smooth the fabric during deflation to remove creases and any trapped air. Insure the oral inflator valves close (did not get stuck open during deflation).	n
7.	Inspect oral inflator: ensure the check valve opens and closes properly, tube for splitting and general condition.	w
8.	Remove the CO2 cartridge and weigh it. The allowable minimum weight is the gross weight marked on the cartridge. Replace if under weight.	m
9.	Inspect the pin that punctures the CO2 cartridge for a condition and full and free movement when the inflator pulls are operated.	an
10.	Secure the inflator pulls with copper breakaway wire and install the CO2 cartridge.	m
11.	Use life Preserver Inspection Record tag MF16 to document the inspection date, date next inspection is due, and initials of mechanic completing this PI 25-60-02B.	m
12.	Re-fold life preserver and place it I n a Zip top bag.	m
13,	Any life preserver with rips, tears, holes, punctures, broken parts, damaged parts, missing parts, after being inflated using the CO: cartridge(s), requiring a leakage test, or that looses air in step 5; must be destroyed or sent to a manufacturer approved facility prior to return to service.	M
4 . 4	C	

Ref. Eastern Aero Marine SIL-25-104, and Operator Care and Maintenance Inspection Instructions.

SECTION: 5.200 PAGE: 25 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

N#: 270PA DATE:	2/25/15	TAT:	24334.3
ELT M/N: E-01 ELT Battery M/N:	MN1300	& Exp Date:	Mar 2017
ELT S/N: 022619 Remote Batt. M/N:	M	& Exp Date:	M
Horn Batt. M/N:	14	& Exp Date:	19
LT Batteries are life limited, the life limit is esta rack the battery by its due date and not worry about for one or more known period(s) of time, it will peration. If an ELT is on for an unknown amount schanged. Inspect ELT for proper installation. a. Remove all interconnections to the ELT use linspect and confirm proper seating of all a should be given to coaxial center conduction.	nut the "Calendar I I be tracked and ci t of time it will be nit and ELT anten connector pins. Sp	ife limit" of a ne nanged if it appro removed from se na. Visually ecial attention	w battery. If an El baches 1 hour of ervice until the bat MECHANIC INITIALS
 into the connector housing. Remove the ELT from the mount and insp 	ect the mounting	ardware for	BH
proper installation and security.			3H
 Reinstall the ELT into its mount and verify activation. Reconnect all cables. They sho should be properly secured to the airplane 	uld have some slad structure for supp	k at each end an ort and protection	d DH
Gain access to the ELT, horn, and remote batte Record the battery part #'s or model #'s &exp			NA BH
Peration of the Controls and Crash Sensor. Steps 4 through 6 may not apply to the 406 EL manufacturers' instructions and note: Manual/and section (s), page(s), or paragraph(s) Activate the ELT using an applied force.	T. For a 406 ELT document number	use the	NA BH
Consult the ELT manufacturer's instruction ELT's require pins to be jumperd for the test), force activation is indicated on the ELT. A TSO using a quick rap with the palm. A TSO-C91a activate by using a quick rap with the palm. activated by using a rapid forward (throwing) raction. Insure that the "G" switch has been rese Check for a Sufficient Signal Radiated From it ON or ELT TEST switch. A low-quality AM b used to determine if energy is being transmitted antenna of the AM broadcast radio receiver (tu about 6 inches from the activated ELT antenna. Verify that All Switches are Properly Labeled and F	The direction for a O-C91 ELT can be ELT will be dam A TSO-C91a ELT motion coupled by at if applicable. A Activation and a Activation for the antennating dial on any set, the ELT aural tor	nounting and activated by aged if you can be a rapid reversing the the ELT using eiver should be . When the etting) is held	15 H
of, FAR 91,207(d), and AC 43,13 1B, Chapter 12		2-22	
The state of the s	my never 14		

SECTION: 5.200 PAGE: 27 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 25-60-07 PORTABLE FIRE EXTINGUISHER INSPECTION WORKSHEET

N	# 2708A DATE 26-Feb-15 TAT 24334.3	FILLOG
po	OSITION COCKPIT PN B-385 SN X-39	7499
Da	ate Yearly Inspection Done ate and month new/of manufacture ate 6 Year Maintenance Done ate Hydrostatic Test Done Month/Year 4 / 15 9 / 20/2(if applicable, due every 6 years) 9 / 20/3(if applicable, due every 12 years)	MECHANIC
1. 2. 3. 4.	Inspect the pressure gauge is in the green range. Inspect the pin and retaining tie condition. Inspect the nozzle for obstructions. Shake the Extinguisher, confirm the contents move in the bottle and have not solidified.	R.W R.W
5.	Check the bottle and mounting bracket for damage, corrosion and security.	R.W

Ref. NFPA 10, Placarded instructions, and manufacturers instructions.

SECTION: 5.200 PAGE: 27 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 25-60-07 PORTABLE FIRE EXTINGUISHER INSPECTION WORKSHEET

N	# 270P4 DATE 26	Feb - 15 TAT 2	4334.3	
PC	OSITION Cabin	PN B-385	SN X-27	2907
Da Da	ate Yearly Inspection Done ate and month new/of manufacture ate 6 Year Maintenance Done ate Hydrostatic Test Done	401	table, due every 6 years) table, due every 12 years)	MECHANIC
10	Inspect the pressure gauge is in the	he green range.		INITIALS
2,	Inspect the pin and retaining tie c			0.1
3.	Inspect the nozzle for obstruction	is.		P.W.
4.	Shake the Extinguisher, confirm and have not solidified.		bottle	DW.
5,	Check the bottle and mounting br	racket for damage, corros	ion and security.	DW.

Ref. NFPA 10, Placarded instructions, and manufacturers instructions.

SECTION: 5.200 PAGE: 29 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 27-40-01 ELEVATOR SCREW JACK REBUILD page 1 of 4

N# 27084 DATE 2/25/15 TAT 243543

REMOVAL	INITIAL
 Remove fairings and inspection covers to gain access to horizontal stabilizer screw jack. 	MA M
2) Fully extend the screw jack, full nose up trim and back off 1/4 turn.	1
3) Aft of baggage compartment, overhead, remove safety wire and relieve cable tension.	
 Place a cable lock on the actuator cables where they come out of the empennage just forward of the screw jack. 	/
5) Remove the top bolts from screw jack.	-
Raise the horizontal stabilizer and place a support under it.	
7) Remove the bottom bolts from screw jack,	
Remove the screw jack from the attach fittings.	
 If the attach lug bushings in the top and bottom of the screw jack are loose, remove them so they do not fall out. 	
NOTE: When the trim cables are out of the aircraft, take care to keep out of any dirt or	debris.
10) Remove cables from the screw jack.	NAT
DISASSEMBLY	
11) Place on a level, clean and dry work surface.	de l
12) If not done mark/index the upper & lower housings for alignment du ng assembly.	1
13) Remove the safety wire and 5 bolts securing the lower housing to the upper housing.	
(4) Remove the cotter pin, nut, washers and bolt that secure the screw block in the upper housing.	
15) Separate the upper and lower housings.	
16) From the shaft in the lower housing, remove; the lock ring, adjuster nut and screw.	
17) From lower housing, remove; the C-ring, spacer and the shaft.	
18) From lower housing, remove; the top and bottom C-rings.	
19) From lower housing, remove, the bottom bearing by tapping the stop ring downward.	
20) From lower housing, remove, the stop ring, upper bearing and spacer tube by tapping the spacer tube upward.	
21) From upper housing, remove; lock ring, grease zerk and clamp nut.	
 From upper housing, remove; Bye-end assembly (with bearings washer nut and conterpin). 	
 From the top eye end assembly, remove the cotter pin, nut, spacer and bearings. 	
(4) From upper housing, remove; C-ring.	
25) Clean everything very well with solvent.	
NSPECTION	
(6) Inspect bolts for cracks, bending, corrosion, thread damage or any other signs of damage, if damaged replace with the proper part # bolt.	1
27) Inspect all nuts for cracks, corrosion, thread damage or any other signs of damage, if damaged replace with the proper part = not. Self locking outs most 1-5 replaced if they can be threaded onto a bolt plate past the locking device without the use of tools.	
(28) Inspect all small parts for cracks, corrosion, thread damage or any other signs of damage, if damaged replace with the proper part # part.	20

SECTION: 5,200 PAGE: 30 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 27-40-01 ELEVATOR SCREW JACK REBUILD page 2 of 4

N# 27084 DATE 2/25/15 TAT 24334.3

INSPECTION (continued)	INITIALS
29) Inspect for wear, scoring, general condition, cracks, nicks and corrosion.	70
30) Inspect the screw for general condition, cracks, nicks and corresion.	
31) Inspect the shaft for general condition, cracks, nicks and corrosion.	
32) Visually inspect the internal threads of the shaft for wear and scoring.	1
33) Re-assemble the screw and the shaft without lubrication and without djusting nut.	
34) Measure the axial backlash buy measuring how far the screw moves in and out of the shaft. If backlash exceeds 0.010 inch, diseard shaft.	
RE-ASSEMBLY	1
NOTE: Lube everything before assembling it and if needed during and after with Plastill	be #3. \
NOTE: Part names in IPC PSM 1-3-4 and MM PSM1-3-2 are not the exact the same, all	part
names used in these procedures are from the IPC.	4.000
UPPER HOUSING	
35) Install ring retaining (NASS0-137) in upper housing.	
36) Pack 2 bearings (7202W-DB) with Plastilube #3.	
37) On the top eye-end, install bearings (7202W-DB) so thrust faces (face with "THRUST" stamped or etched in it) of bearings are together (facing each other), washer (C3CF279-3) and nut (AN320-9).	
 Tighten the nut so the spacer is snug, tighten until the next cotter pin hole lines up, install cotter pin (MS24665-304). 	
39) Install the eye-end assembly in the upper housing, tapping it in until it touches the C-ring.	
40) Install the not-clamp (C3CF277-3) until snug; tighten until a hole in the upper housing lines up with a hole in the nut-clamp. If the holes do not line up without using excessive force, find a nut-clamp that will line up or drill a new hole in a nut-clamp that is not to close to another hole.	
 Install ring-lock (AN996-28) through the housing and into the nut-clamp and install 90° fitting-lubricating (zerk AN944-301). 	
LOWER HOUSING	
42) Pack 2 bearings (B541) unless they are sealed bearing with Plastilube #3.	
43) From the top of the housing install the spacer tube (C3CF297-3) bearing (B541) ring-stop (C3CF296-3) and ring-retaining (NAS50-150).	
44) From the bottom of the housing install the bearing (B541) and ring-retaining (NAS50- 150).	
45) A new shaft needs to have a clevis fork and a ring-stop (spacer C3CF590-3) secured against the clevis fork.	
46) Slide the shaft through the lower housing from the bottom and, slide ring-stop (C3CF346-5) on the shaft and install ring-retaining (NASS1-106) in grove in shaft.	
47) On lower housing and shaft assembly; thread the nut-adjuster (C3CF295-3) on the shaft, do not apply any tension at this time.	
48) Screw the screw into the shaft and tighten the nut-adjuster just sufficiently to remove end play between the screw and the shaft.	
49) Run the screw all the way in and out of the shaft, check for any binding or resistance, and ensure smooth operation over entire travel.	JO

SECTION: 5.200 PAGE: 31 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PL27-40-01 ELEVATOR SCREW JACK REBUILD page 3 of 4

N# LEUF DAIL FIET TAI	N# 22084	DATE 2/25/15	TAT
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LOWER HOUSING continued	INITIALS
50) Install ring-locking through a hole in the nut adjuster and into a split in the top of the shaft. If the holes do not line up without tightening the nut-adjuster so it prevents the screw and shaft from operating smoothly, find a nut-clamp that will line up or drill a new hole in a nut-clamp that is not to close to another hole that will allow smooth operation with no end play between the screw and the shaft.	۵۱
 Again run the screw all the way in and out of the shaft, check for any binding or resistance, and ensure smooth operation over entire travel. 	
ASSEMBLE UPPER AND LOWER HOUSING	
52) Insert the screw block from the lower housing into the upper housing and align the screw block hole with the holes near the top of the upper housing.	
53) Insert bolt (AN175-22) through upper housing and screw block, insert washer (AN960-516) and nut (AN320-5) finger tight.	
54) Install lower housing into upper housing and align 5 bolt holes in lower housing with threaded holes in upper housing.	
55) Thread 5 bolts (AN3H5A) with washers (AN960-10) through lower housing into upper housing.	
56) Torque 5 bolts connecting upper and lower housings to 20 in-lbs, torque bolt through upper housing and screw block to 60 in-lbs and righten slightly to aligned the cotter pin.	
57) Check that the screw jack assembly; operate the actuator through its full range of travel, ensure that there is no binding, roughness and the actuator works smoothly through its full range of travel. Fully extended 14.5 inches, fully retracted 12.4 inches.	
58) If the screw jack dose not run smoothly through its full travel, remove the nut, washer and bolt through the upper housing and the screw block and rotate the screw block 180°. You will probably have to remove the 5 bolts holding the upper and lower housing together and repeat steps 50 through 55:	
59) Once the assembly operates nice and smoothly; cotter pin (MS24665-153) the upper nut and safety wire the bottom 5 bolts.	30
INSTALLATION	
60) Stretch the cables out to full length and insure that there are no kinks or twists in the cables.	ans
61) Ensure that the lugs at the ends of the cables fit in the slots on the drum easily, and the cable lays down nice on the ramps coming out of the slots on the drum, if necessary remove any excess solder material from the lugs and cables with a very fine file.	and and
62) Run a clean rag over the entire length of the cables, repeat until n more grit or debris comes off the cables or can be felt on the cables.	GRA

SECTION: 5.200 PAGE: 32 REVISION: 6

EFFECTIVE: 02/01/13

MAINTENANCE MANUAL

PI 27-40-01 ELEVATOR SCREW JACK REBUILD page 4 of 4

N# 270PA DATE 2/25/5 TAT	
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INSTALLATION continued	INITIALS
NOTE: DO NOT hold the drum stationary and wind or coil the cable on the dru	m,
63) Insert the upper (long) cable lug into the top slot in the drum ar i keeping the cable between the drum and the aircraft tight roll the drum so the cable spools tightly down the groove in the drum with no kinks or twists until the screw jack is against the access panel.	ann
64) Take the lower (short) cable and twist it so the cable winds up on itself. Do not kink,	GIVE
65) Insert the short cable lug into the bottom slot in the drum and coil the cable onto the drum. If the cable twists worse undo the short cable, un—twist the twists from step 64 and twist the other way and repeat step 65.	an
66) Making sure the cables do not uncoil, put the screw jack assembly into the tail of the aircraft.	OANA OAA
67) Making sure the cables do not uncoil, guide the top of the screw jack up and out the opening under the horizontal stabilizer.	ap
68) If needed wind the lower cable on the last groove(s) in the drum.	GMA
NOTE: The only part of A groove without cable should be between the cables that go for	
the empennage.	ALL CONTRACTOR CONTRAC
69) Secure the lower end of the screw jack first (if possible) with bushing (C3T10-3) if removed, bolt (AN175-14A), washer (AN960-516) and nut (AN365-524).	an
 Secure the upper end of the screw jack with bushing (C3T12-3) if removed, bolt (AN175- 16A), washer (AN960-516) and nut (AN365-524). 	appa
NOTE: If a new cable or even better, both cables are new, they have not relaxed or stretched a be very difficult to get the screw jack in. If you have to install the top sc aw jack boit first make any time the screw jack is turned the bottom is secured or held back, be acry careful when the s turns that the cables do not come out of the grooves in the drum.	sure that
NOTE: If the screw jack will not reach it's attach points:	
 Make sure the cable tension adjustment is as short as possible (maybe even removed). 	CA
 Make sure the screw jack top and bottom attaches are securely held aft. 	ORA
III. With someone watching to make sure the screw jack stays in position, tension is maintaine cables and the cables do not come out of the grooves, have someone turn the trim wheel in cockpit from stop to stop several times to get the cables to stretch or relax and seat them be the drum grooves. IV. Repeat this procedure until 67 and 68 can be accomplished.	ed on the
 Remove the cable locks just forward of the screw jack where the cables go into the empennage, and insure that the cables are in the pulleys. 	CAN
(2) Reset trim indicator if needed and run the trim wheel several times full travel, ensure that the trim/stabilizer actuator system works smoothly.	app
Adjust the cable tension per PSM 1-3-2, 2.20 and safety the adjuster.	6 PM
Re-check the trim indicator and if needed re-adjust.	(A)
5) Re install all fairings and inspection covers removed to gain access to horizontal	

MAINTENANCE MANUAL

SECTION: ANNEX C, DHC-2, AAIP-General PAGE: 9 EFFECTIVE: 02/01/12 REVISION: 2

INSPECTION COVE	R	SHEET	(Form	ME04)
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N# 270 PA

DATE: 2/25/18

TAT: 243343 Total Engine Flights: 30829

Type of inspection and/or scheduled maintenance (AAIP, PI, WS, AD, etc.):

AAIP-B; AD 83-02-01, Tie Bar; PI 57-20-01, Strut Fittings; PI 57-20-02, AOG Cuff Insp;

AD 83-04-05, Control Column; AD 2011-18-11, Elevator Tabs; Replace CO Detector;

PI 05-20-01A, Symmetry; B, Rigging; & C, Cable Tension;

PI 05-20-03, CPCP & Structures; PI 05-20-05 Control System & Cables;

PI 25-60-01/25-60-02, Life Jackets; PI 25-60-03, First Aid Kit; PI 25-60-03, ELT Insp & Test;

Pl 25-60-07, Fwd & Aft Fire Extinguisher:

Pl 27-05-001 Fwd Cables; Pl 27-40-01, Elevator Screw Jack;

PI 61-05-01, Prop Balance/Vibration Analysis;

Pl 73-13-01, Fuel Nozzles & Borescope;

INSPECTION COMPLETED:

I certify that:

- All work was performed in accordance with the requirements of PROMECH Air's manual. 1.
- 2. All RII items were inspected by a designated inspector who determined that the work was satisfactorily completed.
- 3. No known condition exists that would make the aircraft un-airworthy.
- 4. So far as the work performed is concerned, the aircraft is in condition for safe operation.
- All scheduled items of work have been transferred from the planning reports to the discrepancy 5 forms and cleared.
- All worksheets and parts tags are complete and have been accounted for. 6.
- All equipment, panels, cowlings, covers, fairing, etc., removed to accomplish this inspection have 7. been reinstalled.
- All AD's that are due have been inspected and the applicable AD01 forms have been completed. 8.

	90	1
Mechanic's Signature	. Rating & No.:	Date: 5/11/15

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 1 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 1 of 12

Inspection Checklist for de Havilland DHC-3 Turbine Otter

N: 2701A Date: 2/25/15

Engine Make/Model: P&WC PT6A-

Hobbs: 67663

ETSO: 10 300-3

PTSO: 732-1

TTAF: 24 3343

ETT: 14470.7

PTT: 35 95-2

GENERAL PRE-INSPECTION 1 OF 1	INT
Check Maintenance log for squawks.	m
Check for Registration, Airworthiness Certificate, Aircraft Flight Manual and GOM.	IA
Clean all used documents from maintenance folder:	
a) Ensure there is a W&B form and an Equipment List in the folder.	113
 b) Ensure there are sufficient MF 31 & MF 32 forms in the folder. 	10
c) Ensure the MF31 and MF32 forms have the proper N# on them.	00
5) Check CO detector:	U.S.
a. Replace if it is 90 days since "DATE OPENED" recorded on face. Ensure the new CO detector is not out of "USE BY/Shelf life date" on front of package and write the date the detector is opened in the space provided on the face of the CO detector.	n
 If the CO detector has turned dark make a discrepancy to investigate cause and renair. 	or
Test the Landing Gear Position Advisory System:	190
 a) After 30 seconds of continuous electrical power the annunciator light will flash once signifying that the unit has powered up. 	17
To test the system, push and hold the amber annunciator light for 4 – 5 seconds and release.	15
c) Check to see that the amber annunciator begins to flash and the aural announcements "GEAR IS UP FOR WATER LANDING" and "GEAR IS DOWN FOR RUNWAY LANDING" are each heard one time each.	20
 Check entire panel for loose or damaged equipment. Including Radios, Instruments, Knobs, Switches, Circuit Breakers, Lights, Placards, and Interior Trim parts. 	in
Inspect instrument panel for presence of proper placards and legibility, (normal category, Wheelen strobe, switches, circuit breakers, lights, etcetera) and instruments for proper range markings.	m
Select AHRS Battery switch on, verify green light illuminates.	in
Inspect instrument panel for presence of proper placards and legibility, (normal category, Wheelen strobe,, switches, circuit breakers, lights, etcetera) and instruments for proper range markings.	in
Check Instrument lights and Aircraft interior lighting for operation.	un
Check all exterior lights; Landing, Pulse, Navigation, Strobes and Beacon for operation	un
Check Pulselite/landing light system for proper operation.	
 a) Select Pulselites on; confirm both landing lights are flashing. 	in
 Select landing lights on; confirm both landing lights are on steady. 	W
c) Turn both switches off.	n

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 2 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 2 of 12

N: 270 PA

Date: 2/25/15

AREA 1) COCKPIT AREA INSPECTION 1 OF 2 INTERIOR	INT.
Only the control column lower sock is removed for the Cockpit Interior inspection.	
Additional inspection panels may need to be removed to investigate & repair discrenancies	
Check Compass Card installation and legibility.	Ret
 Inspect Windshield, and Door windows for cracks, hazing, leaks, operation and security. 	a
 Check Control Column and lock plunger for condition, operation, and security and lube (2) 	Man
4) Check Control Column IAW Para (a) of AD 83-04-05 and complete recurring AD log	in
NOTE: THE FOLLOWING CHECKS ARE ON THE ENTIRE RANGE OF TRAVEL	-
 Check Engine Controls, Levers, Brackets, Rod ends and hardware for condition, operation, and security. 	u
 Operate Aileron, Elevator, and Rudder control systems. Check for smoothness of operation. 	NE
7) Operate Aileron, Elevator, and Rudder trim systems. Check for smoothness of operation.	an
WARNING: CLOSE CABIN BOORS BEFORE OPERATING FLAPS	- PUL
 Operate Flap system and check for smoothness of operation. Check Flap position indicator for indicating correct flap angle, check flap Hydraulic Reservoir for quantity and cap for seal condition and security. Only service with 5606 if needed. 	w
 Operate fuel selector, lube (2) selector while operating the handle through its full range of travel check for smoothness of operation, and proper indexing of handle. 	m
(0) Check Water Rudder Retract system, check for smoothness of operation and lube (Pledge).	m
Operate the heater controls; check for ease of operation.	un
2) Check both Boost Pumps individually for warning light when off and for indication in the Green range, on the gauge and the warning light goes out when on.	m
13) Depress the brakes check for soft or spongy breaks, and evidence of problems, check the E-brake "T" handle for proper operation.	no
4) Check Rudder Pedals (upper) for condition, operation, security and lube (2).	14
 Check the brake pedals linkage for proper adjustment, wear, general condition and lube (2). 	MA
Check the float gear hydraulic reservoir for fluid level and security.	14 ~
 Inspect the hydraulic components and lines for corrosion, leaks, condition and lube (3). 	Mu
 Inspect accessible Electrical components panel area for condition, security and general condition. 	in
 Check Fire Extinguishers per placarded instructions and NAFPA 10, for condition, security, charge, and current inspection tags. 	ne
0) Inspect seats for general condition, full and smooth travel, ease of operation & Lube (2).	he
 Inspect Safety Belts and Shoulder Harnesses for security of attachment, corrosion, cuts, fraying, legible TSO tags, freedom of operation, cleanliness, and overall condition 	in
 Inspect UAT and tray behind Pilot seat, Check for security, evidence of overheating and wiring chafing, proper routing and general condition. 	m
3) Inspect doors for condition, hinges for excessive wear and cracks, and proper lubrication	n
4) Check door latch mechanisms by applying pressure on each latch and comparing it to the others, if one latch is weaker than the rest - a spring is broke and needs replaced. Check hinges for lube (2) and proper and legible placards.	m
Heating and ventilation ducts for condition and security.	in
Insure the control column lower sock is secured.	laa-

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 3 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 3 of 12

N: 270 PA Date: 2/15/15

AREA 1) COCKPIT AREA INSPECTION 2 OF 2 EXTERIOR	INT
I inspection panels under cockpit is removed for the Cockpit Exterior inspection. Additional inspection panels may need to be removed to investigate/repair discrepancies.	
21) Check Rudder control system (lower) for condition, operation, security, and lube (2)	M
28) Check elevator control system (lower) for condition, operation, security, and lube (2)	ne
29) Check Afteron control systems (lower) for condition, operation, security, and lube (2)	we
 Check Water Rudder control system including Disconnect for condition, operation, security and lube (2). 	m
 Check the hydraulic motor and pump assembly for leaks, security. 	1.4 14
32) Inspect the hydraulic components and lines for corrosion, leaks, condition and lube (3).	Mit
 Check Boost Pumps for leaks, and security. 	ma
34) Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition.	- ch
35) Check drain holes for obstructions.	-
36) Check all fairings and panels for general condition & security.	w
37) Secure inspection panel under cockpit.	m
Parties pinter ander vostipin	in

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent. (1)

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent. (2)

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent. (3)

MAINTENANCE MANUAL

Date: 2/25/75

SECTION: ANNEX A, DHC-3T, AAIP-B.

PAGE: 4

EFFECTIVE: 02/01/13

REVISION: 5

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NSPECTION DHC-3T-B.	(Annex	A Form AAIP-B)
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N: 270/A

Page 4 of 12

AEREA 2) CABIN / CARGO AREA INSPECTION	INT.
INTERIOR	
The center cabin headliner needs to be removed for the Cabin Interior inspection. Additional inspection panels may need to be removed to investigate &repair discrepance.	ancies.
Check Life Jackets for condition, placement and earliest due date.	in
Inspect Cabin and Door Windows for cracks, crazing, hazing, leaks, and security.	m
 Check sent pouches for adequate Number of Briefing cards. 	w
 Inspect Safety Belts for security of attachment, corrosion, cuts, fraying, legible TSO tags, freedom of operation, cleanliness, and overall condition. 	in
 Check Seats, Rails and Locking mechanisms for ease of operation, overall condition, security and lube (2). 	u
Inspect the Cabin Floors for condition and buckling.	w
 Check Baggage compartment and Survival kit for general condition and security. 	in
Check Fire Extinguishers for condition, security, charge, and inspection tag date.	in
 Check First Aid kit for condition, security, and tamper seal date. 	in
 Check all interior panels, window molding and door trim for loose or missing screws. Replace all missing screws. 	m
EXTERIOR.	
No inspection panels are removed for the Cabin Exterior inspection. Additional inspection panels may need to be removed to investigate & repair discrepa	incies.
1) Inspect doors for overall condition, hinges for excessive wear, cracks, and lubrication	in
12) Check door latch mechanisms by applying pressure on each latch and comparing it to the others, if one latch is weaker than the rest - a spring is broke and needs replaced. Check hinges for lube (2) and proper and legible placards. Confirm LH Aft Door upper and lower pins properly draw door tight and safety strap functions properly.	m
3) Check Radio Antennas for condition and security. If corroded clean corrosion and paint	m
4) Inspect fuel caps for seal condition, proper latching, chains for condition, security, legibility of placard and lubrication on threads of all 3 caps. Lube (3).	u
 Check Fuel Bay area; check Drains (belly) for operation, security, corrosion, leaking, water contamination and Lube (3). 	4
6) Inspect fuel selector for signs of leakage, excessive corrosion on diaphragm cover,	ua

Reference: Lubricant types

20) Check drain holes for obstructions.

exfoliation of fuel fittings and lubrication (2),

21) Inspect fairings and panels for general condition.

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent. (1)

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent. (2)

18) Inspect external placards, Cert. No., logo, and non-flammable ID tag.

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27, Anti-Size, or equivalent

17) Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition.

19) Inspect lower wing strut fuselage fitting for overall condition, corrosion and Lube (3).

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 5 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 5 of 12

N: 270 PA Date: 2/25/15

AREA 3) EMPENAGE INSPECTION 1 of 2	IN
Remove aft baggage panel &1 inspection panels under each side of the horizontal for this are Additional inspection panels may need to be removed to investigate/repair discrepancies.	ea.
Check ELT for security and general condition.	u
2) Check navigation equipment in tail: inspect wiring, plumbing, connectors, diodes and batteries; Inspect for security, corrosion, cracking, deformation, evidence of leakage, water damage, and overheating. Check mounting trays for condition & security check wiring for condition, chafing & security. Drain lines if needed. Note: Clean batteries with damp cloth to release static electricity never use any chemicals	m
 Check Horizontal Stabilizer for condition and security, inspect forward attach brackets and hardware for condition, security and lube (2). 	ier
 Inspect Right Elevator, bearings and attach fittings for condition, security, wear and lube Visually check for full and free travel. 	en
5) Inspect Servo Tab for delamination, inspect pushrods, rod ends and hardware for condition, security and lube (2); inspect end caps, lever and hinge for condition, wear, lube and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log.	m
 Inspect Rudder, bearings and attach fittings for condition, security, wear and lube (2). Visually & physically check for full and free travel. 	w
7) Inspect Rudder trim tab for delamination for condition, security and lube (2); Inspect End caps, Lever and Hinge for condition, wear, lube and fasteners for security. Visually check for full and free travel.	in
Tail Nav. Light for security and condition.	ber
 Check bottom rudder bracket for cracks, corrosion, condition and lube (3), particularly the area adjacent to the limit stops and pivot bolts. 	u
 Check fuselage skin adjacent to rudder stops and rudder stops for cracks, condition security, corrosion and lube (2). 	m
Peteranga:	

Lubricant types

Lightweight/Penetrating lube/oil; LPS I, Kroil, Marvel Mystery oil, or equivalent.

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent. (2)

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent. (3)

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 6 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 6 of 12

N: 270PA

Date: 2/25/18

Its pect horizontal stabilizer screw jack for condition, security and lube (plastilube) top Zerk, lube (2) exterior, check bearings for evidence of wear and attach points for security. It provides the formula of the points for security and lube (2). Inspect left Elevator, bearings and attach fittings for condition, security, wear and lube (2). Visually check for full and free travel. It provides the provides of the provid	EA 3) EMPENAGE INSPECTION 2 of 2	INT
12) Inspect elevator torque tube for overall condition, security and lube (2). 13) Inspect left Elevator, bearings and attach fittings for condition, security, wear and lube (2). 14) Inspect flap interconnect tab for delamination, inspect pushrods, rod ends and hardware for condition, security and lube (2); inspect end caps, lever and hinge for condition, wear, lube and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log. 15) Check sea fin and attach fittings for condition, security and lube (3). 16) Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition.	Zerk, lube (2) exterior, check bearings for evidence of wear and attach points for security	m
 13) Inspect left Elevator, bearings and attach fittings for condition, security, wear and lube (2). Visually check for full and free travel. 14) Inspect flap interconnect tab for delamination, inspect pushrods, rod ends and hardware for condition, security and lube (2); inspect end caps, lever and hinge for condition, wear, lube and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log. 15) Check sea fin and attach fittings for condition, security and lube (3). 16) Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition. 	Inspect elevator torque tube for overall condition, security and lube (2)	me.
14) Inspect flap interconnect tab for delamination, inspect pushrods, rod ends and hardware for condition, security and lube (2); inspect end caps, lever and hinge for condition, wear, lube and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log. (5) Check sea fin and attach fittings for condition, security and lube (3). (6) Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition.	Inspect left Elevator, bearings and attach fittings for condition, security, wear and lube (2). Visually check for full and free travel.	M
Check sea fin and attach fittings for condition, security and lube (3). Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition.	and fasteners for security. Check free play of tab; Max allowable 1 degree/0.070 inches at elevator TE, IAW AD par (f) (1), PSM 1-3-2 Part 2 & Appendix 4, TR 18, 19 & 20, and complete recurring AD log.	w
Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition. Check drain holes for obstructions.	Check sea fin and attach fittings for condition, security and lube (3).	u-
111 Beck drain holes for obstructions	Inspect Exterior for loose or missing Rivets and fasteners and skins for general condition	in
	Check drain holes for obstructions.	m
8) Inspert fairings and panels for ganges a undition		
9) Secure all inspection panels	Secure all inspection panels.	in

Reference: Lubricant types

(1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-purpose lightweight protectant/hube; LPS 2, ACF 50, or equivalent.

(3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 7 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 7 of 12

N: 27019 Date: 2/35/15

AREA 4) WING INSPECTION 1 OF 1	INIT	TALS
No feed and the second	LH	RI
No inspection panels are removed for the Wing inspection. Additional inspection panels may need to be removed to investigate &repair disc	renanci	es.
Inspect wing for overall condition, cracks, dents, missing fasteners	10.00	14
 Inspect inboard nose flap and attach fittings, bearings and hardware for cracks, wrinkles, corrosion, general condition, security and lube (2). 	Ne	u
 Inspect inboard trailing flap and attach fittings, bearings and hardware for cracks, wrinkles, corrosion, general condition, security and lube (2). 	ac	w
 Inspect Outboard nose flap and attach fittings, bearings and hardware for cracks, wrinkles, corrosion, general condition, security and lube (2). 	M	N
 Inspect Aileron and attach fittings, bearings and hardware for cracks, wrinkles, corrosion, general condition, security and lube (2). 	m	m
 Inspect aileron mass balance attach fitting, for cracks, corrosion, general condition, security and lube (2). 	u	u
 Inspect wing struts for cracks and hardware for corrosion, general condition and attach points for security by vigorously shaking the wing and lube (3). 	n	u
 Inspect Flap external pushrods, rodends and Bellcrank for security, general condition and lube (2). 	m	u
9) Check Fuel vents for blockage.	m	in
10) Landing light for security.	in	w
 Check stall warning for operation, Lift Detector Vane for condition free movement security and lube (LPS 1). Check Heater for operation. 	in	N7.
 Inspect externally visible wing attach corrosion, general condition and attach points for security by vigorously shaking the wing and lube (3). 	ne	
 Check pitot/static mast assembly for general condition and security. Check Heater for operation. 	m	N/A
 Inspect 2 wing mirror attachment and hardware for cracks, corrosion, general condition, security and lube (3). 	m	N/A
5) Inspect exterior for loose or missing rivets/fasteners and skins for general condition.	w	w
 Inspect stall fences and bars for security and condition. 	w	Me
Inspect wing tips for condition and security.	102	M
8) Inspect NAV lights for security.	my	no
 Inspect Wing ropes for condition and attachment ensure the tip rope is 3/8 and has no knot. 	ne	de
Check drain holes for obstructions.	ne	M
Inspect fairings and panels for general condition.	m	1
Secure all inspection panels.	m	10

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent. (2)

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 8 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 8 of 11

N: 270/4 Date: 2/25/15

AREA 5) FLOAT INSPECTION GEN 1 of 1	INT
No inspection panels are removed for the Float inspection. Additional inspection panels may need to be removed to investigate & repair discre	
 Check support struts, fittings and bolts for cracks, corrosion, security and Lube (3). 	M
Check steps for cracks, corrosion and security.	ne
 Check water rudder retract system for full travel, sticking, rough or uneven action, lost motion and check cables for adequate tension. 	lu
 Check water rudder Steering system for full travel, sticking, rough or uneven action, lost motion and check cables for adequate tension. 	in
 Check all cable, pulleys and fairleads for operation, fraying, and security. Lube (3) all moving parts. 	100
Check water rudders and posts for cracks, corrosion, security and lube (3).	in
 Check bracing wires for tightness, security of lock nuts, fiber separators and fork ends for general condition, wear, security and Lube (3). 	Lu
Check spreader bars and fittings for eracks, corrosion, security and Lube (3)	in
Check exterior for cracks, dents, oil canning, loose rivets and corrosion.	-
Check zinc blocks on both water rudders and float skeg areas for condition and security.	in
Check float ropes for condition, attachment and fraying,	w
2) Check float pump out tubes and balls for security broken lanvards and deterioration	
Check oar for attachment security and condition.	in
Check nose bumpers for cuts, damage and security.	h

Reference: Lubricant types

Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.

(2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent,

Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent. (3)

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 9 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 9 of 12

N: 270 PA

Date: 2/15/15

Additional inspection panels may need to be removed to investigate & repair discrepancies. Remove spinner and inspect propeller hub, piston and cylinder for cleanliness, condition and leakage. Inspect counterweights and cuffs for slight free rotary movement, cleanliness, condition, leakage, safety and security. Grease prop, use grease specified on placard, replace grease Zerks and caps. Warning: Remove one grease zerk from each cuff prior to inserting grease! Inspect propeller blades for nicks, cracks, corrosion and overall condition. File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion. Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect low pitch stop rods and guides for condition and lube (1). Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Check carbon block for wear, "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3.	AREA 6) PROPELLER INSPECTION 1 OF 1	INT
and leakage. Inspect counterweights and cuffs for slight free rotary movement, cleanliness, condition, leakage, safety and security. Grease prop, use grease specified on placard, replace grease Zerks and caps. Warning: Remove one grease zerk from each cuff prior to inserting grease! Inspect propeller blades for nicks, cracks, corrosion and overall condition. File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion Ouly file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop prins for freedom of movement and lube (1). Inspect propeller blades for proper alignment with slippage marks. Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Ocheck carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. Inspect spinner and bulkhead for condition and cracks.	Only the spinner is removed for the Propeller inspection. Additional inspection panels may need to be removed to investigate & repair discrepancies.	
Inspect counterweights and cuffs for slight free rotary movement, cleanliness, condition, leakage, safety and security. 3) Grease prop, use grease specified on placard, replace grease Zerks and caps. Warning: Remove one grease zerk from each cuff prior to inserting grease! 4) Inspect propeller blades for nicks, cracks, corrosion and overall condition. 5) File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion. Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pit housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Ol Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. Inspect spinner and bulkhead for condition and cracks.	and leakage.	in
Grease prop, use grease specified on placard, replace grease Zerks and caps. Warning: Remove one grease zerk from each cuff prior to inserting grease! Inspect propeller blades for nicks, cracks, corrosion and overall condition. File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3.	leakage, safety and security.	-
Inspect propeller blades for nicks, cracks, corrosion and overall condition. File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion. Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect propeller blades for proper alignment with slippage marks. Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. Inspect spinner and bulkhead for condition and cracks.	Warning: Remove one grease zerk from each cuff prior to inserting grease!	1
File out leading edge erosion so the original blade profile is maintained. Blended minor nicks and damage in the leading or trailing edges to a diameter 10 X the depth of damage. Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6 4. Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect propeller blades for proper alignment with slippage marks. Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 Inspect spinner and bulkhead for condition and cracks.	Inspect propeller blades for nicks, cracks, corrosion and overall condition	in
Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge erosion Only file the Aft. (back) surface of the blade to remove minor nicks and damage. Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect propeller blades for proper alignment with slippage marks. Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. Inspect spinner and bulkhead for condition and cracks.	Blended minor nicks and damage in the face, back and cuff of the blade to a diameter 20 X the depth of damage. Ref Hartzell Manual 139 61-00-39 sec 6.4	Ma
Inspect Zero pitch stops plates and pin housings for condition and security, inspect stop pins for freedom of movement and lube (1). Inspect propeller blades for proper alignment with slippage marks. Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 2. Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. Inspect spinner and bulkhead for condition and cracks.	Note: NEVER EVER file the Aft. (back) surface of the blade to remove normal leading edge Only file the Aft. (back) surface of the blade to remove minor nicks and domains	erosion
Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 Inspect spinner and bulkhead for condition and cracks.	pins for freedom of movement and lube (1).	w
Inspect low pitch stop rods and guides for condition and lube (1). Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 I) Inspect spinner and bulkhead for condition and cracks.) Inspect propeller blades for proper alignment with slippage marks.	100
Check Beta Ring for wear, warping and track. "DO NOT LUBE" Ref PT6A MM 61-10-00 Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 June 10 Inspect spinner and bulkhead for condition and cracks. Reinstall spinner) Inspect low pitch stop rods and guides for condition and lube (1)	-
Inspect spinner and bulkhead for condition and cracks. Reinstall spinner	 Check Beta Ring for wear, warping and track. "BO NOT LUBE" Ref PT6A MM 61-10-00 2. 	in
Inspect spinner and bulkhead for condition and cracks. Reinstall spinner	 Check carbon block for wear. "DO NOT LUBE" Ref Hartzell Manual 139 61-00-39 sec 6 3. 	16-
2) Reinstall spinner	Inspect spinner and bulkhead for condition and cracks.	
	2) Reinstall spinner	

Reference: Lubricant types

- (1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.
- (2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.
- (3) Heavyweight protectant/lube; LPS 3. Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 10 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 10 of 12

N: 27019

Date: 2/25/15

AREA 7) ENGINE INSPECTION 1 OF 2	INT
GENERAL	
Remove all 10 cowlings and 1 intake area cover for the Engine inspection. Additional inspection panels may need to be removed to investigate & repair discrepancies.	
Inspect cowling intake for cleanliness and damage	1 14
2) Inspect turbine wash access door and hinge for condition security and lube (2)	100
Remove inner air Box around Intake area and inspect for cracks, damage or missing fasteners.	-
4) Inspect all Tubing, Hoses and attach brackets for leakage, chafing, security and condition.	13
 inspect all electrical wiring, connections and brackets for, security, chafing and proper routing. 	J0 JB
 Clean entire engine especially the aluminum case sections and fittings with water and Salt-X, Salt-Away or similar. 	JS
 Coat all aluminum case sections and cast aluminum parts and fittings with corrosion inhibiter: Corrosion X, Corrosion Block, AV-8 or similar. 	10
FILTERS	N. FF
8) Inspect fuel outlet filter, install new filter & new "O-Rings". Ref P&W C MM 73-40-02 8. B.	
9) Inspect fuel pump inlet filter for damage and foreign matter. Clean and reinstall with new "O-Rings", Ref P&W C MM 73-40-02 8. B. Rings", Par R&W C MM 73-40-02 8. B.	113
Kings - Net Forw C MM 73-40-02 8, B.	10
10) Inspect oil filter for foreign matter, drain and package for analysis, install fresh filter with new "O-Rings". Ref GMM 2.400 S/N Off: PA-195 . S/N On: PA 155	10
11) Inspect P3 Air Filter and clean, inspect Drain Valve and reinstall with new "O Rings". Ref P&W C MM 73-10-07 7, A.	10
12) Inspect magnetic chip detector for contamination and cleanliness. Confirm operation of complete assembled system by attaching removed chip detector and with aircraft power on, short detector polls and confirm cockpit light illuminates. Reinstall with new "O-Rings".	JP
(3) Inspect KGB Screen for Contamination, clean, reinstall with new "O.Rings"	10.000
14) Remove fuel screen by Oil Cooler; inspect and install new filter, check overboard drains for condition and security.	10
15) Drain EPA Reservoir if installed.	100
16) Remove fuel screen by Fuel Boost pumps; inspect and install new filter, check overboard drains for condition and security.	10
AGB	
 Inspect Oil-To-Fuel heater for security and leakage. 	1
16) Inspect accessory section and all accessories for security and oil leakage.	13
17) Check Starter Generator starter generator and wiring for security and leakage.	30
LINKAGES	10
18) Check controls and linkages of FCU, Cam Box and Manual/Emergency FCU Override for condition, and security; rodends, attach points and hardware for security, safety, chafing, and general condition.	JB
19) Check Cam box for excessive wear, evidence of binding and lubricate with plastilube.	UD
20) Check FCU, fuel pump and lines for security and linkages for proper lubrication (2)	
21) Check heater and Ice Deflector Door controls.	03
The state of the s	UB

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 11 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 11 of 12

N: 270 PA

Date: 2/25/15

AREA 7) ENGINE INSPECTION 2 OF 2 GG & INLET AREA	INT.
Inspect engine mount, vibration isolators and mount structure for condition, cracks and security.	
28) Check inlet stage compressor blades for F.O.D. damage. Ref P&W C MM 72-30-05	13
 Check inlet air screen for condition, cleanliness and security. Check gas generator for cracks, distortion, and security. 	10
31) Inspect fire seals for cracks, and security of brackets and seals	_0
32) Inspect Intake Duct, Snow/Ice Deflector, Screen & Linkage for condition, security and lube (2).	10

CT AREA	
33) Inspect flow divider and fuel nozzle assemblies for leakage and security.	1 10
34) Inspect spark igniters for cleanliness, erosion, and operation (Ref. 74-20-00)	20
35) Inspect ignition cable igniter connector for condition and arcing. Inspect cables through their entire length for general condition, abrasions, kinks, and fire seal pass-through for chafing into cables.	20

POWER SECTION	
36) Inspect propeller shaft for oil leaks.	TA
 Inspect CSU, OSG linkage and propeller reversing lever for proper attachment, security, oil leakage and lube (2). 	10
38) Inspect torque transmitter and Tach. Gen., for condition, safety, leakage and security.	10
 Inspect exhaust duct and stacks for cracks and security. 	13

AFT OF ENGINE	
40) Inspect firewall and seals for condition and security.	114
41) Inspect the hydraulic components and lines for corrosion, leaks, condition and lube (3).	13
42) Inspect oil cooler for leaks and security.	JA
43) Inspect cabin heater can and ventilation blower for security, condition of wiring and ducting.	217
44) Inspect condition of batteries, mounting tray and Vent tubes; for proper fluid level, service as needed with clean fresh water, and check Battery Quick Disconnect and plug for evidence of arcing and security.	ع در
45) Perform compressor wash with RMC cleaner or equivalent. Check solution draining from the case drains for amount of discoloration and if necessary let soak 20 minutes and wash again.	10

Reference: Lubricant types

- (1) Lightweight/Penetrating lube/oil; LPS 1, Kroil, Marvel Mystery oil, or equivalent.
- (2) General-purpose lightweight protectant/lube; LPS 2, ACF 50, or equivalent.
- (3) Heavyweight protectant/lube; LPS 3, Paralketone, Cor-Ban 27L, Anti-Size, or equivalent.

MAINTENANCE MANUAL

SECTION: ANNEX A, DHC-3T, AAIP-B.

EFFECTIVE: 02/01/13

PAGE: 12 REVISION: 5

INSPECTION DHC-3T-B. (Annex A Form AAIP-B)

Page 12 of 12

N: 270PA Date: 2/25/15

POST INSPECTION RUN 1 OF 1	INT
1) Inspect engine and engine area for FOD, tools, rags etc Install inner air box around intake.	
 Check oil level, ensure prop is clear and start engine in accordance with the start checklist and warm up at idle until oil temp has stabilized. 	10
 Allow engine to idle until the corrosion inhibiter applied on page 10 has dried and will not smell or smoke with passengers on board. 	10
 Check Generator output, confirm Generator Warning light goes out and check low idle speed 51% + 2% or - 0%. 	10
Note - Watch all the engine parameters especially Ng and ITT during the next check.	14
5) Carefully and for a short time advance throttle to TAKE-OFF power do not exceed 101.5 Ng	
Or 11 t timits; Record Torque; Ng: WF: and ITT.	10
Check Manual/Emergency FCU Override Control for proper operation.	10
AFTER RUN UP	
 Check oil level within 10 minutes of shut down, Only service with Mobil Jet II if needed. INSURE OIL CAP IS PROPERLY LOCKED 	n
 Check fuel filters and screen for leaks and proper safety; one under cockpit floor, one on engine mount fwd of oil cooler, and two in fuel pump 	מנ
Check Main Oil Filter, RGB screen And Chip Detector, for leaks and proper safety.	11
Check fuel oil Heater for proper operation. P&W C MM Ref. 71-00-00	10
1) Check area for FOD, tools race etc. Install Court and occurs D. J. D. William	10

7) Check oil level within 18 - 1 - 5 - 5	
 Check oil level within 10 minutes of shut down, Only service with Mobil Jet II if needed. INSURE OIL CAP IS PROPERLY LOCKED 	n
 Check fuel filters and screen for leaks and proper safety; one under cockpit floor, one on engine mount fwd of oil cooler, and two in fuel pump 	מנ
9) Check Main Oil Filter, RGB screen And Chip Detector, for leaks and proper sufety	1/1
(0) Check filed oil Heater for proper operation, P&W C MM Ref. 71-00-00	40
11) Check area for FOD, tools, rags etc Install Cowl and connect De-Ice Boyr Wiring	10
(2) Re-Safety Manual/Emergency FCU Override Control	19
13) Enter next maintenance due hobbs time on the first MF31 and MF32 form. This will be: An AD or a task if due before the next AAIP M125, A, B, or C OR The AAIP M125 if more than 125 hours remaining to the next AAIP A, B, or C. This entry is only made after the last phase of the inspection if the inspection is phased.	en
Enter next maintenance due date on the first MF31 and MF32 form. This will be: An AD or a task if due before the next AAIP MM This entry is only made after the last phase of the inspection if the inspection is phased.	ch
15) Install HOBBS sticker after last phase with:	
a) The next maintenance due time.	
b) The next maintenance due date.	cr_
6) Make entry on MF32 for completing the inspection.	n
- The state of completing the inspection.	1h