PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject : **Propeller Assy Installation**	No.	WO/007-SNO/XII/2022
	Date	2 December 2022
	A/C Reg.	PK-SNO C208B-2375
Reference : MP C208B Rev. 12 EI NO. 012/EO/TEK-TS/XII/2022	Prepared By	TS
	Checked By	CI
	Approved By	TM

To : Engineer In Charge

Description :

1. Perform Propeller Assy Installation
2. Make an entry in Maintenance Log.
3. Return the Completed Work Order and Form to PPC.

#If any finding, please close the routine card, and transferred to inspection card.

Additional Work :

- Accomplish Instructions Ref to Engineering Order 012/EO/TEK-TS/XII/2022

Compliance Statement	Sign & Date	Signature
NEXT PROPELLER OVER HAUL CARRIED OUT @ 4000 Hrs	Company Lic. No.: SCA 29 07/12-2022 (Engineer In Charge) ARIS KURNIAWAN	(Technical Manager)

AIRCRAFT CHECK WORK SUMMARY
(Form: SCA/MTC/051)

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
2 Dec 2022	WO/007-SNO/XII/2022	Propeller Assy Installation	10 Dec 2022

A/C Type	Mfg. Serial Number	A/C Registration
C208B	C208B-2375	PK-SNO

AIRCRAFT DATA

Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	PCE-PC1937	3884:05/7329 / 2043:23
	#2	-	
Propeller/Rotor	#1	111120	2043:23 / 8665
	#2	-	
Landing Gear	NLG		6135:41 / 8665
	LH MLG		6135:41 / 8665
	RH MLG		6135:41 / 8665

PACKAGE COVERED

No	Subject	Qty	Remark
1	Non-Routine Card	1	
2	Inspection Card		-
3	Work Order	1	
4	Summary Inspection List	1	
5	Material and Tool List	-	
6	Escalation form	-	
7	CRS (SMI / Unscheduled Maintenance)	1	

INSPECTION CARD (IC) LIST (Finding during maintenance)

No	Taskcard Ref	Subject	Status		Name/ Sign & Stamp
			Open	Close	
IC-001					
IC-002					
IC-003					
IC-004					
IC-005					
IC-006					

IC-007					
IC-008					
IC-009					
IC-010					
IC-011					
IC-012					
IC-013					
IC-014					
IC-015					

Prepared by :	Checked by :	Verified by :	Approved by :
Technical Support	Chief Maintenance	Chief Inspector	Technical Manager
Hani	Dodit	Yanuar	Istiono

SUMMARY INSPECTION ITEMS
(Form: SCA/MTC/050)

WO Ref: WO/007-SNO/XII/2022

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-001	INSTALLATION OF PROPELLER ASSY 3GFR34C703-B REF EO NO. 012/EO/TEK-TS/XII/2022	07/12-22	2HRS	Alvis	

NON ROUTINE CARD
(Form: SCA/MTC/047)

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO007-SNO30/2022	07 Dec 22	INSTALLATION	PK-SNO
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
#001	71	PROPELLER INSTALLATION	TANAH MERAH
9. ZONE	10. PANEL		
FRONT			

11. DESCRIPTION

PERFORM PROPELLER ASSY INSTALLATION MODEL 3GFR34C703-B REF EO NO. 012/EO/TEK-TS/XII/2022

S/N ON:111120

REFERENCE	[X] 012/EO/TEK-TS/XII/2022	[ ] EMM Ch	[ ] OTHER
RII (*)	[X] Y	[ ] N	MHR :

12. RESULT

PERFORMED PROPELLER ASSY INSTALLATION MODEL 3GFR34C703-B, I.A.W OVERHAUL M.M. CHAP 61-11-00. FOUND SATISFACTORY

Performed at A/C TT : 6695 : 41 A/C TC #LDG : 8665

	MECH	ENG	INSP (*)
	[signature]	[signature]	[signature]

FINDING	[ ] Y	[x] N	ACT MHR :	DATE/TIME (DD/MM/YY)		
INSPECTION CARD (IC) #				07	12	2022

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS

	INSPECTION CARD **(Form: SCA/MTC/ 048)**	TECHNICAL DEPARTMENT

1. CARD #	2. JO/WO #	3. ORIGINATOR	4. CARD REF	5. DATE
6. A/C REG/MSN	7. A/C TYPE	8. TRADE	12. VENDOR ORDER #	
9. ZONE	10. STA	11. MTC TYPE		

13. DESCRIPTION/DEFECT-IF FINDING OF CPCP INSPECTION, PLEASE COMPLETE SET. 20	14 PPC/ENG	15 DATE

16. CORRECTIVE ACTION	17 MECH	18 ENG. LIC	19 DATE
Performed at A/C TT : ..... A/C TC /LDG :			
20. CORROSION INFORMATION			

LOCATION	CAUSE OF DAMAGE
	☐ Environment
	☐ Internal Leakage
CORROSION ☐ Isolated ☐ Widespread	☐ Chemical Spill
CORROSION LVL ☐ 1 ☐ 2 ☐ 3	☐ LAV/Galley Spill
PROPOSED ACTION ☐ Doublers	☐ Blocked Drain
☐ Others	☐ Wet Insulation Blanket
.....	☐ Other

21. If the defect is RII, Please Sign this card finally by RII Inspector	INSP	DATE
NOTICE OF INSPECTOR		

22. PARTS REQUIRED

PART DESCRIPTION	PART NO	QTY	SERIAL NO		STATUS	
			ON	OFF	CLOSE	OPEN

23. TOOLS REQUIRED

DESCRIPTION	PART NO. / MODEL	NEXT CALIBRATION DATE	STATUS

ENGINEERING ORDER

012/EO/TEK-TS/XII/2022

INSTALLATION OF PROPELLER MCCAULEYMODEL 3GFR34C703 Series ON CESSNA C208/C208B

PT. SMART CAKRAWALA AVIATION

Prepared	Checked	Approved
Technical Support	**Chief Inspector**	**Technical Manager**
Signature:	Signature:	Signature:
Name: Dwi M.	Name: Yanuar A. F.	Name: Istiono
Date: 2 Dec 2022	Date: 2 Dec 2022	Date: 2 Dec 2022

SMART AVIATION
ENGINEERING ORDER

SMART AVIATION
ENGINEERING ORDER

	No. EI: **012/EO/TEK-TS/XII/2022**	Rev. No. : **Original**
	Date Issued : **2 December 2022**	
Task Description : **INSTALLATION OF PROPELLER MCCAULEY MODEL 3GFR34C703 Series ON CESSNA C208/C208B**	Data Reference : - **Model 208 Series Maintenance Manual Revision 37, Revision Date Mar 1, 2020 Chapter 61 - Propellers**	
Aircraft Type : **CESSNA C208/C208B EQUIPPED WITH PROPELLER MCCAULEY MODEL 3GFR34C703 Series**		

1. Description.

This EO is issued, to perform removal & installation checklist Propeller Assembly maintenance practices the 3GFR34C703 Series Propeller on Cessna C208/C208B.

SMART AVIATION
ENGINEERING ORDER

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNO	208B-2375

3. Compliance

The Propeller model 3GFR34C703 Series have 3 of Blades, after removal the propeller that is installed on Engine refer to accomplishment instruction task card, install the Serviceable/New Propeller on the aircraft refer to accomplishment instruction task card.

4. Distribution.

TECHNICAL MANAGER	[ ]	MATERIAL SUPPORT	[ ]
SAFETY & QUALITY MANAGER	[ ]	TECHNICAL SUPPORT	[ ]
CHIEF INSPECTOR	[ ]	FILE	[ ]

5. Manhours

18.0 man-hour to do the inspection.

6. Material.

A1633-72	Packing
A1639-32	Nut, Propeller

7. Special Tool Required.

Tracking, Propeller

Adapter, Torque Wrench

8. Publication Affected.

None.

SMART AVIATION
ENGINEERING ORDER

PROPELLER INSTALLATION

Date : 07/DES/2022
Work Number : WO/009-SNS/XII/2022

Date :
WO Number :

Part No. Propeller : 3GFR34C703-B
A/C Total Hours : 6145:41

Ser. No. Propeller : 111120
A/C Total Landings : 8665

Propeller Time TSN:2043:29 Hrs TSO:-

Removed from A/C Reg.: PK-SNS

Description	Eng.	RII	Remarks
B. INSTALL PROPELLER (Refer to Figure 01 to 04).			
1. Ensure airplane electrical power is OFF.			
2. If spinner bulkhead (13) was removed, position spinner bulkhead on propellerand install washers (12) and screws (11). **Torque screws (11) 20 to 25 inch-pounds.**			N/A
3. On propeller with anti-ice installation, install screws securing anti-ice leads (21) to slip ring (15) and secure leads to bulkhead using screws and clampsremoved.			N/A
4. Install Beta Ring Puller D-5945 tool.			
5. Apply a light coating of engine oil to O-ring (14) and install in the propeller hub.			
6. Inspect stud and nut threads for cleanliness and absence of nicks, burrs or other damage.			
7. Apply MIL-PRF-83483C (Locktite Moly-50 or equal) lubricant liberally to propeller studs, nut threads and both faces of spacers (8). **CAUTION:** It is important that propeller be seated against engine flange with a straight push. Rotation, cocking or wiggling will damage the o- ring groove and oil leakage may result.			
8. With propeller supported by a hoist and sling position propeller on engine flange (10) and install spacers (8) and nuts (9). Keeping the B-5588 torque wrench adapter or equivalent, at a 90 degree angle to the torque wrench **torque nuts 68 to 72 foot-pounds.**			TORQUE 72 ft lbs

SMART AVIATION
ENGINEERING ORDER

9. On propeller with anti-ice installation, install anti-ice brush block assembly(22). Clearance between anti-ice brush block and slip ring is 0.064 inch, +0.015 or -0.015 inch. Torque the nuts that attach the brush block bracketassembly to the engine from **145 to 165 inch-pounds (16.38 to 18.64 N-m).**			N/A
10. Remove Beta Ring Puller D-5945 tool. **NOTE:** The lower end of the propeller reversing lever is machined with astepped notch. **CAUTION:** Make sure the stepped notch at the end of the propeller reversing lever (26) is under the guide pin (37) in the reversinglever guide pin bracket (36).			
11. Install propeller reversing lever (26) and carbon block (24) in propeller feedback collar (23). Refer to Pratt & Whitney Engine Maintenance Manual for installing the propeller reversing lever.			
12. Connect propeller reversing lever (26) to control cable and beta valve clevis(25).			
13. To facilitate propeller dynamic balancing, remove all previously installedpropeller weights from spinner bulkhead.			
14. Slide spinner support (1) on feathering spring housing (2). **CAUTION:** Perform the following procedure exactly as written to preventdamage.			
15. Lightly press spinner (17) against spinner support (1) and check alignment ofspinner holes with spinner bulkhead holes. Spinner holes should be approximately 1/2 hole diameter forward from alignment with bulkhead holes. If not add or remove shims (16) to obtain this alignment.			
16. Once shimming is complete, push hard on front of spinner to align holes andInstall screws (19) and washers (18).			
17. Install propeller dynamic balancing test equipment.			
18. Perform RII inspection before first engine start.			
19. Install right nose cap half and close cowling.			
20. Start engine I.A.W Pilots Operating Handbook and FAA Approved Airplane Flight Manual.			

SMART AVIATION
ENGINEERING ORDER

21. Perform propeller dynamic balancing ref. C208B MM chapter 61-11-00 Dynamic balancing (McCauley) – Adjustment test. Refer also to related balancer tools manual.			
22. Make an appropriate entry in Work Order and Aircraft Flight & Maintenance Log (AFML).			

MAINTENANCE RELEASE

I hereby certify that the above stated maintenance and/or inspection was performed in accordance with the approved Aircraft Maintenance Program and meets requirements of Civil Aviation Safety Regulations.

	ENGINEER		RII
Name	: ARIS KURNIAWAN	Name	: HENDRO
Signature	:	Signature	:
Stamp	:	Stamp	:
Place/Date	: IANAH MERAH / 10/12-22	Place/Date	: IANAH MERAH / 10-12-22

1. DIRECTORATE GENERAL OF CIVIL AVIATION MINISTRY OF TRANSPORTATION REPUBLIC OF INDONESIA	2. **AUTHORIZED RELEASE CERTIFICATE** DGCA Form No. 21-18, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 13221

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AIRFLITE PTY LTD. 37 EAGLE DRIVE, JANDAKOT AIRPORT, WESTERN AUSTRALIA, 6164 (TEL: +61 8 9499 7022)	JPRP1921/WA3096-2

6. Item :	7. Description:	8. Part Number :	9. Quantity :	10.Serial Number :	11. Status/Work:
1	McCauley Propeller	3GFR34C703-B/106GA-0	1	111120	OVERHAULED

12. Remarks :

Propeller overhauled in accordance with McCauley manuals SPM100-6, BOM100-9 & SPM100-3.
Damaged parts replaced: 3 x new 106GA-0 Blades fitted S/N: AMG30093, AMG30090 & AMG30091.
1 x new C5152 Counterweight, 1 x new C5105 Beta yoke, 1 x new C3903 Split retainer & 3 x new B4407-1 Shims.

13.a. Certifies the items identified above were manufactured in conformity to : ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		14.a ☑ CASR Part 43.9 Return to Service. ☐ Other regulation specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in block 12 was accomplished in accordance with CASR part 43 and in respect to that work, the items are approved for return to service.	
13.b. Authorized Signature:	13.c. Approval/Authorization No.:	14.b. Authorized Signature :	14.c. Approval/Certificate No.: **145F-549**
13.d. Name (Typed or Printed):	13.e. Date (d/m/y) :	14.d. Name (Typed or Printed): Mark Davies AIRFLITE 1634	14.e. Date (d/m/y) : 01-May-2019

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Our Ref (SRN):	JPRP1921
Your Ref:	WA 3096-2

PROPELLER LOG BOOK ENTRY

Item:	McCauley 3GFR34C703-B/106GA-0 Propeller	Serial No:	111120

Applicable Service Documents:

Type:	Doc No:	Description of requirement:	Status:
AD's	2005-14-11	non complient propellers from California Propeller	N/A
--	2006-24-07	non complient propellers from Oxford Aviation	N/A
--	--	--	--
--	DGCA	Search did not show any current DGCA AD's for this application	N/A
--	--	--	--
SB's	260A	Revised Inspection limits for C700 & C750 hubs	complied
--	261	A1636-34 retaining ring installation & inspection	complied
--	262	Actuating pin installation proceedure for turbine engine propellers	complied
--	267	Propeller hub socket inspection & repair	complied
--	269	Turbine propeller piston rod assembly inspection	complied
--	--	--	--
SL's	1989-3	Re-use of ball bearings & races in turbine engine propellers	complied
--	1995-5A	Optional corrosion preventative for blades & blade sockets (LPS-3)	Noted
--	1996-5	Paint on turbine feathering springs	complied
--	1997-6B	Continued operation of turbine propellers with blade seal leakage	Noted
--	1998-23	Overspeeding of propellers	Noted
--	2007-8A	Turboprop piston to cylinder O-rings	complied
--	2014-1H	Publication of revised McCauley manuals	Noted
--	2014-2	Propeller hub stud plating change	Noted
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The Maintenance recorded above has been carried out in accordance with DGCA Part 145 and in respect to that work, the items are approved for Release to Service.

Certified By:	Mark Davies	Signature:	
Company approval stamp:	AIRFLITE 1634	Date:	01-May-2019

This certificate constitutes a log book entry and must be affixed to the appropriate log book.

Our Ref (SRN):	JPRP1921
Your Ref:	WA 3096-2

PROPELLER LOG BOOK ENTRY

Item:	McCauley 3GFR34C703-B/106GA-0 Propeller	Serial No:	111120

Applicable Service Documents:

Type:	Doc No:	Description of requirement:	Status:
AD's	2005-14-11	non complient propellers from California Propeller	N/A
--	2006-24-07	non complient propellers from Oxford Aviation	N/A
--	--	--	--
--	DGCA	Search did not show any current DGCA AD's for this application	N/A
--	--	--	--
SB's	260A	Revised Inspection limits for C700 & C750 hubs	complied
--	261	A1636-34 retaining ring installation & inspection	complied
--	262	Actuating pin installation proceedure for turbine engine propellers	complied
--	267	Propeller hub socket inspection & repair	complied
--	269	Turbine propeller piston rod assembly inspection	complied
--	--	--	--
SL's	1989-3	Re-use of ball bearings & races in turbine engine propellers	complied
--	1995-5A	Optional corrosion preventative for blades & blade sockets (LPS-3)	Noted
--	1996-5	Paint on turbine feathering springs	complied
--	1997-6B	Continued operation of turbine propellers with blade seal leakage	Noted
--	1998-23	Overspeeding of propellers	Noted
--	2007-8A	Turboprop piston to cylinder O-rings	complied
--	2014-1H	Publication of revised McCauley manuals	Noted
--	2014-2	Propeller hub stud plating change	Noted
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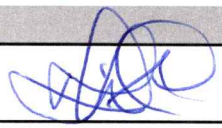
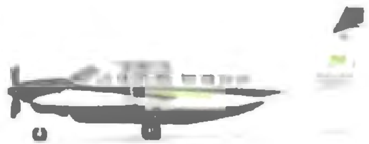
The Maintenance recorded above has been carried out in accordance with DGCA Part 145 and in respect to that work, the items are approved for Release to Service.

Certified By:	Mark Davies	Signature:	
Company approval stamp:	AIRFLITE 1634	Date:	01-May-2019

This certificate constitutes a log book entry and must be affixed to the appropriate log book.



Additional Work Sheet
Propeller Assy Installation

Aircraft Registration: PK-SNO

WO# Nr: WO/007-SNO/XII/2022

Parts Used Sheet

Part Used

Date	Part Nr.	Serial Nr.	Description	Quantity	Engineer
10 DEC 22	A 1633-72	NSN	PACKING	1 ea	[illegible]
	A 1639-32	NSN	NUT	8 ea	[illegible]

smartaviation

Additional Work Sheet
Propeller Assy Installation

Aircraft Registration: **PK-SNO**

WO# Nr: **WO/007-SNO/XII/2022**

Parts Used Sheet

Special Tool Used

No.	Description	Due Date	Engineer
1	VIBREX 2000	JAN 2023	[illegible]
2	TORQUE WRENCH (25 - 139 NM)	OCT 2023	ARIS
3	BETA RING PULLER (D-5949)	O/C	ARIS