



PLANNING & PREPARATION FOR INSPECTION

TECHNICAL DEPARTMENT
PT. SMART CAKRAWALA AVIATION

DATE : 2 Dec 2022

AIRCRAFT : RK SNO

REG.

MSN : C208B-2375

1.	TYPE OF INSPECTION :	ENGINE ASSY REPLACEMENT			DUE AT :	TBA
2.	LOCATION / HANGAR FACILITY	TMH-PAPUA				
3.	ESTIMATION GROUND TIME	5	DAYS	ESTIMATION STARTED DATE	Dec 2022	
4.	MAN POWER REQUIREMENT	ENGINEER MECHANIC RII ADDITIONAL MANPOWER	: 1 Person : 2 Person : 1 Person : -	REMARKS:	-	
5.	3RD PARTY	NIL				
6.	WORK ORDER NO.	WO-006-SNO-XII-2022_Engine Assy Installation				
7.	SUMMARY INSPECTION ITEM	- INSTALLATION ENGINE ASSY				
		PART NUMBER	DESCRIPTION	QTY	REMARKS	
8.	PARTS / MATERIALS	PT6A-114A (SN: PCE-1937) 3074153-01 A 1633-72 A 1639-32 B 5096 B 5121 MS 206685 206684G or 3039526 M83248/1-113 AN 4044-1 S 3346-1 S 3346-1 S 3346-1 S 3346-1 MS24665-302 VSF1015N12B 9910333-1 AN363-720 MS24665-302 MS24665-134 MS24665-86 3007342 S2808/AE3663 MIL PRF 83483C MIL W-G-632 2380	ENGINE ASSY PROPELLER GOVERNOR O RING HUB TO PROPELLER SHAFT NUT SPACER FEEDBACK ASSY GASKET PROPELLER OVER SPEED GOVERNOR GASKET PROPELLER GOVERNOR O RING STAR-GEN GASKET STAR-GEN GASKET PROPELLER TACHOMETER GASKET NG TACHOMETER GASKET STBY ALTERNATOR GASKET AC COMPRESSOR DRIVE UNIT COTTER PIN MOUNT BRACKET TO MOUNT RING SEAL CONICAL ELASTOMER NUT COTTER PIN COTTER PIN COTTER PIN GASKET HOSE OIL LUBRICANT FOR THREAD PROPELLER LUBRICANT FOR COMPRESSOR DRIVE UNIT, PLASTILUBE Lockwire 0.020", 0.025", 0.032" ENGINE OIL	1 1 1 8 8 1 1 1 1 1 1 1 1 1 1 10 2 6 4 10 15 4 2 1 AS REQ AS REQ AS REQ AS REQ		
9.	SPECIAL TOOLS		Propeller Special tool D-5945 7/8 inch special tool MASTER COMPASS	1 SET 1 SET 1		
10.	TOOLS / GROUND SUPPORT		Engine Hoist Sling Engine Stand General Tool Torque Wrench (0-50 in. lb, 50-200 in-lb, 200-1000 in-lb) Tangga untuk Engine (Kecil) Engine Craine + Gawang GPU	1 1 1 Set 3 2 1 1		
11.	REMARKS/NOTE	After Completed Installation Engine Assy need to perform Engine Ground run and Compass Swing.				



PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject :	No.	WO/006-SNO/XII/2022
Engine Assy Installation	Date	2 December 2022
	A/C Reg.	PK-SNO C208B-2375
Reference :	Prepared By	TS
MP C208B Rev. 12	Checked By	CI
EI NO. 011/EO/TEK-TS/XII/2022	Approved By	TM

To : Engineer In Charge

Description :

1. Perform Engine 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 :

Compliance Statement	Sign & Date Company Lic. No.: (Engineer In Charge)	Signature (Technical Manager)
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AIRCRAFT CHECK WORK SUMMARY
(Form: SCA/MTC/051)

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
2 Dec 2022	WO/006-SNO/XII/2022	Engine Assy Installation	
AIRCRAFT DATA			
Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	PCE-PC1937	
	#2	-	
Propeller/Rotor	#1	111120	
	#2	-	
Landing Gear	NLG		
	LH MLG		
	RH MLG		

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					

<u>IC-007</u>					
<u>IC-008</u>					
<u>IC-009</u>					
<u>IC-010</u>					
<u>IC-011</u>					
<u>IC-012</u>					
<u>IC-013</u>					
<u>IC-014</u>					
<u>IC-015</u>					

Prepared by :
Technical Support



Hani

Checked by :
Chief Maintenance



Dodit

Verified by :
Chief Inspector



Yanuar

Approved by :
Technical Manager



Istiono



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

WO Ref: WO/006-SNO/XII/2022

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-001	INSTALLATION OF ENGINE ASSY PT6A-114A REF EO NO. 011/EO/TEK-TS/XII/2022				



PT. SMART CAKRAWALA AVIATION

CERTIFICATE RETURN TO SERVICE
SCHEDULED MAINTENANCE INSPECTION
(CRS-SMI)

A/C TYPE	: CESSNA 208B			TTSN	:
A/C REG	: PK-SNO			TCSN	:
MSN	: C208B-2375			DATE	:
TYPE OF INSPECTION	: ENGINE ASSY INSTALLATION				
DUE AT	:				
REFF	: EO NO. 011/EO/TEK-TS/XII/2022				
EXCEPTION					
AUTHORIZED PERSON					
I hereby certify that this aircraft has been maintained accordance with CASR and Maintenance Program. Aircraft safe and airworthy for flight					
NAME	CAT	AMEL/OTR NO	SIGN&STAMP		DATE
	AIRFRAME & POWER PLANT				
	EIRA				
THE NEXT DUE TYPE OF INSPECTION	:				
DUE AT	:				
Form: SCA/MTC/049					



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		
	<input type="checkbox"/> Environment		
	<input type="checkbox"/> Internal Leakage		
CORROSION <input type="checkbox"/> Isolated <input type="checkbox"/> Widespread	<input type="checkbox"/> Chemical Spill		
CORROSION LVL <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> LAV/Galley Spill		
PROPOSED ACTION <input type="checkbox"/> Doublers	<input type="checkbox"/> Blocked Drain		
	<input type="checkbox"/> Others	<input type="checkbox"/> Wet Insulation Blanket	
	<input type="checkbox"/> 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



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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/006-SNO/XI/2022		INSTALLATION	PK-SNO
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
#001	71		
9. ZONE	10. PANEL		
FRONT			

11. DESCRIPTION

PERFORM ENGINE ASSY INSTALLATION MODEL PT6A-114A
REF EO NO. 011/EO/TEK-TS/XII/2022

S/N ON: PCE-PC1937

REFERENCE	<input checked="" type="checkbox"/> 011/EO/TEK-TS/XII/2022	<input type="checkbox"/> EMM Ch	<input type="checkbox"/> OTHER
RII (*)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	MHR :

12. RESULT

Performed at A/C TT : A/C TC /LDG :				MECH	ENG	INSP (*)
FINDING <input type="checkbox"/> Y <input type="checkbox"/> N ACT MHR :				DATE/TIME (DD/MM/YY)		
INSPECTION CARD (IC) #						

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

011/EO/TEK-TS/XII/2022	
Rev. No	Original
Rev. Date	2/12/2022

ENGINEERING ORDER

011/EO/TEK-TS/XII/2022

INSTALLATION OF ENGINE ASSY PT6A-114A ON CESSNA 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 22	Date: 2 Dec 22	Date: 2 Dec 22



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

011/EO/TEK-TS/XII/2022

Rev. No Original

Rev. Date 2/12/2022

SMART AVIATION ENGINEERING ORDER

	No. EI: 011/EO/TEK-TS/XII/2022	Rev. No. : Original
	Date Issued : 2 December 2022	
Task Description : INSTALLATION OF ENGINE ASSY PT6A-114A ON CESSNA C208B	Data Reference : - Model 208 Series Maintenance Manual Revision 37, Revision Date Mar 1, 2020 Chapter 71 Power Plant – Maintenance Practices	
Aircraft Type : CESSNA C208B WITH ENGINE MODEL PT6A- 114A / PT6A114		



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

011/EO/TEK-TS/XII/2022

Rev. No Original

Rev. Date 2/12/2022

SMART AVIATION ENGINEERING ORDER

1. Description.

This EO is issued, to perform installation checklist powerplant maintenance practices the PT6A-114/PT6A-114A engine on Cessna C208B.

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNO	208B-2375

3. Compliance

The Engine model PT6A-114A have TBO 3600 Hours, after removal the engine that is installed on airframe refer to accomplishment instruction task card, install the overhauled/new engine on the aircraft refer to accomplishment instruction task card.

4. Distribution.

TECHNICAL MANAGER	[<input type="checkbox"/>]	MATERIAL SUPPORT	[<input type="checkbox"/>]
SAFETY & QUALITY MANAGER	[<input type="checkbox"/>]	TECHNICAL SUPPORT	[<input type="checkbox"/>]
CHIEF INSPECTOR	[<input type="checkbox"/>]	FILE	[<input type="checkbox"/>]

5. Manhours

32.0 man-hour to do the inspection.

6. Material.

PWC09-005	Compound, Universal
PWC09-006	Compound, Universal
PWC11-027	Solvent, Petroelum
PWC11-031	Cleaner, Engine

7. Special Tool Required.

PWC34300	Stand, Engine
PWC51861-600	Sling Assembly, Engine

8. Publication Affected.

None.



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ENGINEERING ORDER

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SMART AVIATION ENGINEERING ORDER

C208B ENGINE INSTALLATION

Date : _____ Work Number : _____

Part No. Engine : PT6A-114A A/C Total Hours : _____

Ser. No. Engine : PCE-PC1937 A/C Total Landings : _____

Engine Time TSN:3684:05 TSO:7:54

CSN:3729 CSO:10

Installed on A/C Reg. : PK-SNO

Description

Eng.

RII

Remarks

B. INSTALL ENGINE (Refer to Figure 01 and Figure 02).

1. Make and inventory record P/N and S/N of the engine and its accessories. Fill out into the List (Form Engine Change – Major Component Inventory Record)

2. Install engine mount brackets, elastomers, and engine mount ring. Refer to Chapter 71, Engine mount – Maintenance Practices.

3. Connect lifting hoist sling to forward and aft lifting brackets on engine and lift engine into position forward of engine mount truss.

4. Make sure that all engine lines and equipment are clear.

5. Lubricate the engine mount bolts with MIL-PRF-81322G Grease, before you install them to prevent corrosion.

6. Make sure that the threads of bolts are covered during application of grease. Lubrication on threads can alter the torque reading.

7. Move the hoist and engine aft to align the engine mount ring holes with the holes in the engine mount truss.

8. Install the mount bolts (engine mount truss to engine mount ring) and torque the bolt/nuts to 450 to 500 inch-pounds (50.8 to 56.4 N·m). Remove the hoist and sling.



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ENGINEERING ORDER**

9. Connect torque meter pressure and vent lines at upper left firewall. Bleed torque meter indicating system.			
10. Connect engine power controls at fuel control unit. Rig controls.			
11. Connect the electrical leads of the following items of electrical equipment: i) Ignition exciter high tension leads at ignition exciter (right engine mount truss). ii) Starter/generator (center top of engine accessory case). iii) Gas generator section tachometer generator (lower right side of engine). iv) Fuel control heater (right rear of engine). v) Oil temperature sensor (right rear of engine). vi) Cabin bleed air heater flow control valve (lower right side of engine). vii) All engine to engine mount ground straps. viii) Propeller overspeed governor and ITT harness (left front of engine). ix) Propeller tachometer generator (right front of engine).			
12. Install engine fire detector warning harness.			
13. Connect starter/generator cooling air hose to starter/generator.			



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14. Connect engine bleed air line to cabin bleed air heater flow control valve. Connect engine bleed air hose to cabin bleed air heater mixing air valve.			
15. Install left nose cap/induction air duct/inertial air separator, if not previously installed.			
16. Install propeller, if not previously installed.			
17. Install and connect propeller governor control cable.			
18. Install left and right nose cap bulkhead assemblies and top cowling center panel.			
19. Install oil cooler and right nose cap.			
20. Connect fuel supply hose at fuel heater and fuel motive flow hose at fuel control unit.			
21. Push fuel firewall shutoff control fully in.			
22. With fuel line disconnected at fuel manifold below engine, motor engine with starter to purge fuel lines.			
23. Perform RII Dual Inspection before to first engine start.			
24. Start engine and perform operational check. Refer to Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual.			
25. Perform Ground Run, Use the Pratt and Whitney PT6A-114/-114A/-135/-135A Engine Maintenance Manual with the Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual to do the operational check of the different components on the engine.			
26. Shut down engine and check for fluid leaks, connections or hardware, etc.			
27. Perform RII inspection if any controls have been disturbed or adjusted.			



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ENGINEERING ORDER

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SMART AVIATION ENGINEERING ORDER

28. Install engine cowling.

29. Make an appropriate entry in Work Order (WO) 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.

Name : _____ Stamp : _____

Signature : _____ Place/Date : _____



TECHNICAL SUPPORT
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ENGINEERING ORDER

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ENGINE CHANGE - Major Component Inventory Record

Registration	:	Work Order Number	:
Airframe Time	:	Airframe Landings	:
Engine Time	:	Engine Cycle	:

Description	Engine OFF			Engine ON		
	Part Number	Serial Number	Time Remaining	Part Number	Serial Number	Time Remaining
Engine Assembly						
Propeller Assembly						
Compressor Bleed Valve						
Fuel Control Unit						
Oil Fuel Heater						
Igniter Exciter						
Flow Divider						
Oil Cooler						
Starter Generator						
Alternator						
Fuel Pump						
Propeller Governor						
Propeller Overspeed Governor						
Fuel Nozzle						

NOTE: ANY OTHER COMPONENT CHANGES MUST BE FILL ON INSPECTION CARD (SCA/MTC/048)



Aircraft Registration: **PK-SNO**



WO# Nr: **WO/006-SNO/XII/2022**

Additional Work Sheet

Engine Assy Installation

Parts Used Sheet

Special Tool Used



Additional Work Sheet

Engine Assy Installation

Aircraft Registration: **PK-SNO**

WO# Nr: **WO/006-SNO/XII/2022**

Parts Used Sheet

Part Used