



# PLANNING & PREPARATION FOR INSPECTION

TECHNICAL DEPARTMENT  
PT. SMART CAKRAWALA AVIATION

DATE : 13 Nov 2022  
AIRCRAFT : PK- SNM  
REG. :  
MSN : C108-00555

1.	TYPE OF INSPECTION :	ENGINE ASSY REPLACEMENT		DUE AT :	4000 FH
2.	LOCATION / HANGAR FACILITY :	MALINALI HANGAR - KALIMANTAN UTARA			
3.	ESTIMATION GROUND TIME :	5	DAYS	ESTIMATION STARTED DATE	Dec 2022
4.	MAN POWER REQUIREMENT :	ENGINEER : 1 Person MECHANIC : 2 Person RX : 1 Person ADDITIONAL MANPOWER : - REMARKS: -			
5.	3RD PARTY :	NIL			
6.	WORK ORDER NO. :	WO-110-SNM-XI-2022_Engine Assy Replacement Due at 4000 TFH			
7.	SUMMARY INSPECTION ITEM :	- REMOVAL ENGINE ASSY - INSTALLATION ENGINE ASSY			
8.	PARTS / MATERIALS :	PART NUMBER	DESCRIPTION	QTY	REMARKS
		PTEA-114A (SN: PCE-1988)	ENGINE ASSY	1	
		3074153-01	PROPELLER GOVERNOR	1	
		A 1633-72	O RING HUB TO PROPELLER SHAFT	1	
		A 1659-32	NUT	8	
		B 5096	SPACER	8	
		B 5121	FEEDBACK ASSY	1	
		MS 206685	GASKET PROPELLER OVER SPEED GOVERNOR	1	
		206684G or 3039526	GASKET PROPELLER GOVERNOR	1	
		MS3248/1-113	O RING STAR-GEN	1	
		AN 4044-1	GASKET STAR-GEN	1	
		S 3346-1	GASKET PROPELLER TACHOMETER	1	
		S 3346-1	GASKET NG TACHOMETER	1	
		S 3346-1	GASKET STBY ALTERNATOR	1	
		S 3346-1	GASKET AC COMPRESSOR DRIVE UNIT	1	
		MS24665-302	COTTER PIN MOUNT BRACKET TO MOUNT RING	10	
		VSF1015N22B	SEAL CONICAL	2	
		9910333-1	ELASTOMER	6	
		AN363-720	NUT	4	
		MS24665-302	COTTER PIN	10	
		MS24665-134	COTTER PIN	15	
		MS24665-86	COTTER PIN	4	
		3007342	GASKET	2	
		S2008/AE3663	HOSE OIL	1	
		MIL PRF 83483C	LUBRICANT FOR THREAD PROPELLER	AS REQ	
		MIL W-G-632	LUBRICANT FOR COMPRESSOR DRIVE UNIT, PLASTILUBE	AS REQ	
			Lockwire 0.020", 0.025", 0.032"	AS REQ	
		2580	ENGINE OIL	AS REQ	
9.	SPECIAL TOOLS :	Propeller Special tool D-5945		1 SET	
		7/8 inch special tool		1 SET	
		MASTER COMPASS		1	
10.	TOOLS / GROUND SUPPORT :	Engine Hoist Sling		1	
		Engine Stand		1	
		General Tool		1 Set	
		Torque Wrench (0-50 in. lb, 50-200 in-lb, 200-1000 in-lb)		3	
		Tangga untuk Engine (Kecil)		2	
		Engine Craine + Gawang		1	
		GPU		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 : Engine Assy Replacement Due to Timex	No.	WO/110-SNM/XI/2022
	Date	17 November 2022
	A/C Reg.	PK-SNM C208-00655
Reference : MP C2088 Rev. 12 EI NO. 010/EO/TEK-TS/XI/2022	Prepared By	TS
	Checked By	CI
	Approved By	TM
To : Engineer In Charge		

### Description :

1. Perform Engine Assy Replacement Due to Timex.
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.

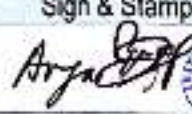

### Additional Work :

- NIL -

Compliance Statement  <i>Carried Out</i>	Sign & Date Company Lic. No.:  <i>[Signature]</i> 10 Jan 2023. SCA 031 (Engineer In Charge) <i>D. Arya Permana.</i>	Signature  <i>[Signature]</i> (Technical Manager)
--	---	--



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

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED		
18 Nov 2022	WO/110-SNK/XI/2022	Engine Assy Replacement	10 Jan 2023.		
A/C Type		Mfg. Serial Number	A/C Registration		
C208		C208-00655	PK-SNM		
AIRCRAFT DATA					
Subject	Pos #	Serial Number (SN)	TTSN/TCSN		
Engine	#1	PCE-PC1837 2316.	TSN: 0		
	#2	-	TSO: 3998:13/5479		
Propeller/Rotor	#1	190345			
	#2	-			
Landing Gear	NLG				
	LH MLG				
	RH MLG				
PACKAGE COVERED					
No	Subject	Qty	Remark		
1	Non-Routine Card				
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	
<u>IC-001</u>		FCU	-	✓	Arjuna  
<u>IC-002</u>					
<u>IC-003</u>					
<u>IC-004</u>					
<u>IC-005</u>					
<u>IC-006</u>					

<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



.....  
Dwi M.

Checked by :  
Chief Maintenance



.....  
Dadit

Verified by :  
Chief Inspector



.....  
Yanuar

Approved by :  
Technical Manager



.....  
Istiono



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

WO Ref: WO/110-SNM/XI/2022

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-001	REMOVAL OF ENGINE ASSY PT6A-114A REF EO NO. 010/EQ/TEK-TS/XI/2022	03/01/2023		Arga	
2	NRC-001	INSTALLATION OF ENGINE ASSY PT6A-114A REF EO NO. 010/EQ/TEK-TS/XI/2022	10/01/2023		Arga	



PT. SMART CAKRAWALA AVIATION

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

A/C TYPE : CESSNA 208

TTSN : 3998:13

A/C REG : PK-SNM

TCSN : 5474

MSN : C208-00655

DATE : 10 Jan 2023

TYPE OF INSPECTION : ENGINE ASSY REPLACEMENT

DUE AT :

REF : EO NO. 010/EO/TEK-TS/XI/2022

EXCEPTION

- No 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
D. Arya Permana.	AIRFRAME & POWER PLANT	9505/SCA 031		10 Jan 2023.
	EIRA			

THE NEXT DUE TYPE OF INSPECTION : 100 Hrs.

DUE AT : 4079:00 FH.

Form: SCA/MTC/049





# INSPECTION CARD (Form: SCA/MTC/ 048)

TECHNICAL  
DEPARTMENT

1. CARD#	2. JO/WO#	3. ORIGINATOR	4. CARD REF	5. DATE
IG-001	WD/110-SAM/xi/2022	Arpa.		10 Jan 2023.
6. A/C REG/MSN	7. A/C TYPE	8. TRADE	12. VENDOR ORDER#	
PK-SAM/00655	C208	Engine.		
9. ZONE	10. STA	11. MTC TYPE		
Engine.	LNU.			

13. DESCRIPTION/DEFECT-IF FINDING OF CPCP INSPECTION, PLEASE COMPLETE SET. 20	14 PPC/ENG	15 DATE
FCU Found Power lever Not Response		10 Jan 2023.

16. CORRECTIVE ACTION	17 MECH	18 ENG. LIC	19 DATE
Removed and Replaced. FCU with the Original PK-SAM. IAW C208B. MM # 76-10-03. Performed at A/C TT: 3998:13 A/C TC /LDG: SAM.			10 Jan 2023.

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
FCU	3244897-3	1	C65097	C65184	✓	
23. TOOLS REQUIRED						
DESCRIPTION	PART NO. / MODEL	NEXT CALIBRATION DATE	STATUS			
General Tools.			ok			
Torque wrench.	96212	AUG 2023.	Serviceable			

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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/110-SNM/XU/2022	03 Jun 2023.	REPLACEMENT	PK-SNM
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
#001	71	Engine.	LNU
9. ZONE	10. PANEL		
FRONT			

**11. DESCRIPTION**

PERFORM ENGINE ASSY REPLACEMENT MODEL  
PT6A-114A REF EO NO. 010/EO/TEK-TS/XU/2022

S/N OFF: PCE-PC2316 S/N ON: PCE-PC 2327

REFERENCE	<input checked="" type="checkbox"/> 010/EO/TEK-TS/XU/2022	<input type="checkbox"/> EMM Ch	<input type="checkbox"/> OTHER
RII (*)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	MHR:

**12. RESULT**

Performed Engine Assy Replacement  
Result Found Satisfy.

Performed at A/C TT: 5998:13 A/C TC/LDG: 5979

FINDING	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	ACT MHR:	DATE/TIME (DD/MM/YY)
INSPECTION CARD (IC) #				10 01 2023


**13. PARTS REQUIRED**

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS
Engine Assy.	PT6A-114A	1		OK

**14. TOOLS REQUIRED**

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS
General Tools.	-	OC	OK
Torque wrench.	96212	Aug 2023	OK
Torque wrench.	10268841	Sep 2023.	OK





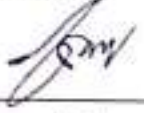
	TECHNICAL SUPPORT TECHNICAL DEPARTMENT <b>ENGINEERING ORDER</b>		010/EO/TEK-TS/XI/2022	
			Rev. No	Original
			Rev. Date	18/11/2022

## ENGINEERING ORDER

**010/EO/TEK-TS/XI/2022**

### REMOVAL & 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: 18 Nov 22	Date: 18 Nov 22	Date: 18 Nov 22



TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No


Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

	No. EI: <b>010/EO/TEK-TS/XI/2022</b>	Rev. No. : <b>Original</b>
	Date Issued : <b>18 November 2022</b>	
Task Description : <b>REMOVAL &amp; INSTALLATION OF ENGINE ASSY PT6A-114A ON CESSNA C208B</b>	Data Reference : <b>- Model 208 Series Maintenance Manual Revision 37, Revision Date Mar 1, 2020 Chapter 71 Power Plant – Maintenance Practices</b>	
Aircraft Type : <b>CESSNA C208B WITH ENGINE MODEL PT6A- 114A / PT6A114</b>		

	TECHNICAL SUPPORT TECHNICAL DEPARTMENT <b>ENGINEERING ORDER</b>		010/EO/TEK-TS/XI/2022	
			Rev. No	Original
			Rev. Date	18/11/2022

## SMART AVIATION ENGINEERING ORDER

### 1. Description.

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

### 2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNM	208-00655

### 3. Compliance

The Engine model PT6A-114A have TBO 3600 Hours, do a removal the engine installed on airframe refer to accomplishment instruction task card, and install the overhauled/new engine 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

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.





TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No

Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

**9. Accomplishment Instructions.**

**C208B ENGINE REMOVAL**

Date : 03 Jan 2023

Work Number : WO/110-SNM/XI 2022

Part No. Engine : PT6A-114A

A/C Total Hours : 3998:13

Ser. No. Engine : PCE-PC2316

A/C Total Landings : 5474

Engine Time TSN: 3998:13 Hrs TSO: \_\_\_\_\_

CSN: 5474 CSO: \_\_\_\_\_

Removed from A/C Reg.: PK-SNM

Description	Eng.	RII	Remarks
<b>A. REMOVE ENGINE (Refer to Figure 01 and Figure 02)</b>			
<b>CAUTION:</b> Chock main wheels and place a tailstand under tailcone before attempting engine removal.			
1. Turn electrical power off.			
2. Pull fuel firewall shutoff control out (off).			
3. Remove upper cowling doors and lower cowling panels.			
4. Drain residual fuel from lines and fuel filter using filter drain. Remove fuel supply hose at fuel heater. Remove fuel motive flow hose at fuel control unit.			
5. Remove right nose cap and oil cooler.			
6. Remove top cowl center panel assembly and nose cap.			
7. Remove propeller.			



TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No Original

Rev. Date 18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

8. Disconnect and remove propeller speed control cable.	A		
9. Remove the left nose cap/induction air duct/inertial air separator.	SP		
10. Disconnect cabin heater bleed air line at flow control valve and bleed air hose at mixing air valve.	A		
11. Remove starter/generator cooling air hose from starter/generator.	SP		
12. Remove engine fire detector wiring harness.	A		
13. Disconnect electrical wiring connectors and ground wires at the following equipment locations:			
i) Propeller overspeed governor and ITT harness (left front of engine).	SP		
ii) Propeller tachometer generator (right front of engine)	SP		
iii) Cabin bleed air heater flow control valve (lower right side of engine).	A		
iv) Oil temperature sensor (right side of engine).	A		
v) Fuel control heater (right rear of engine).	A		
vi) Gas generator section tachometer generator (lower right side of engine).	A		
vii) Starter/generator (center top of engine accessory case).	SP		
viii) Ignition exciter high tension leads at ignition exciter (right engine mount truss).	SP		





TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No

Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

14. Disconnect engine power control cables at fuel control unit.	AF		
15. Remove torquemeter pressure and vent lines at forward upper right side of engine mount truss.	JB		
16. Connect hoist sling to forward and aft lifting brackets and connect sling to engine hoist.	JH		
17. Raise hoist to just support weight of engine and remove nuts and bolts at each of four corners of engine mounting ring.	JH		
18. Ensure all wiring and lines are free, then carefully move hoist and engine forward to clear engine mount truss.	JH		
19. If engine is to be returned for overhaul or replaced, remove the following items:	JH		
i) Engine induction air plenum. Refer to Chapter 71, Engine cowling and Nose Cap - Maintenance Practices.	JH		
ii) Engine mount ring, elastomers, and engine mount brackets. Refer to Chapter 71, Engine mount - Maintenance Practices.	JB		
iii) Propeller overspeed governor. Refer to Chapter 61, Propeller Control - Maintenance Practices.	JB		
iv) Propeller tachometer generator. Refer to Chapter 77, Propeller RPM Indicator - Maintenance Practices.	JB		
v) Oil temperature sensing sensor. Refer to Chapter 79, Oil Indicating - Maintenance Practices.	AF		
vi) Oil cooler bracket and pressure/return hoses. Refer to Chapter 79, Oil Distribution - Maintenance Practices.	JH		





TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EQ/TEK-TS/X1/2022

Rev. No

Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

vii) Standby alternator (if equipped). Refer to Chapter 24, Standby Electrical System - Maintenance Practices.

viii) Torque sensing line and fittings.

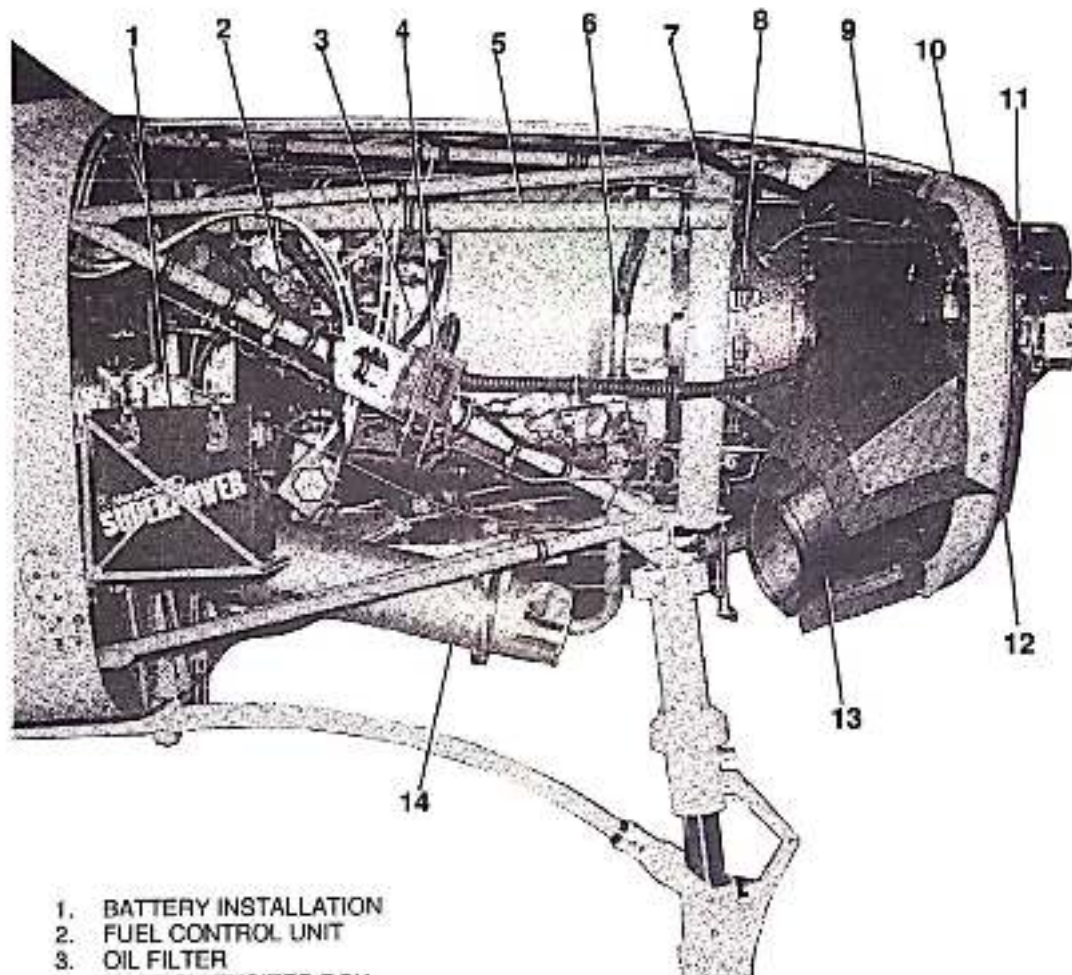
20. Make and inventory record P/N and S/N of the engine and its accessories from the engine that removed, fill out into the List (Form Engine Change - Major Component Inventory Record)

21. Make an appropriate entry in Work Order (WO) and Aircraft Flight Maintenance Log (AFML)

**\*\*\* END OF THE TASK \*\*\***

## SMART AVIATION ENGINEERING ORDER

A21753



1. BATTERY INSTALLATION
2. FUEL CONTROL UNIT
3. OIL FILTER
4. IGNITION EXCITER BOX
5. STARTER/GENERATOR COOLING AIR BLAST TUBE
6. BLEED AIR PRESSURE LINE
7. ENGINE MOUNT RING
8. FUEL MANIFOLD
9. OIL RETURN FROM OIL COOLER
10. RIGHT COWLING BULKHEAD
11. PROPELLER GOVERNOR
12. OIL COOLER
13. PRIMARY EXHAUST STACK
14. BLEED AIR HEATER MUFFLER

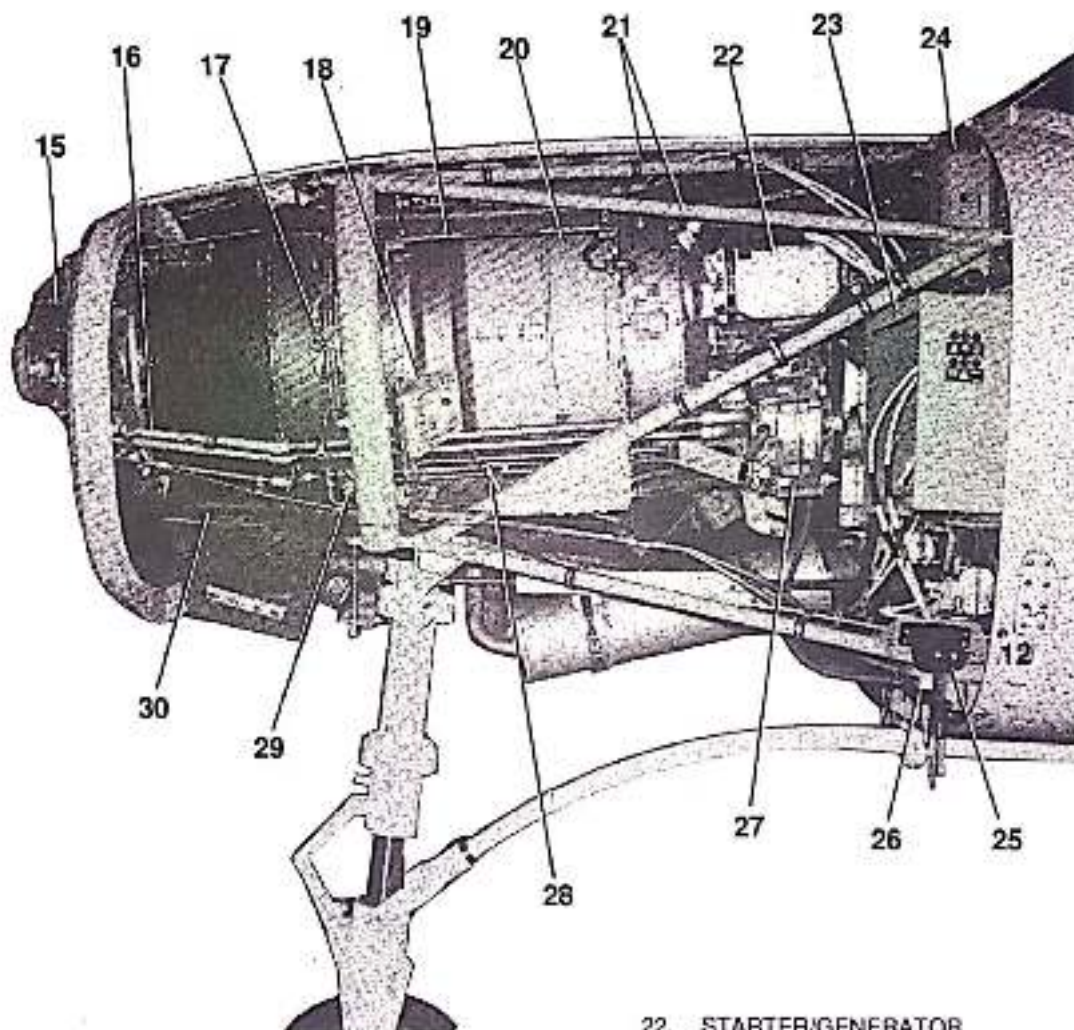
2550X1092

Figure 01 Sheet 1



## SMART AVIATION ENGINEERING ORDER

A21759



- |                                  |                                |
|----------------------------------|--------------------------------|
| 15. PROPELLER OVERSPEED GOVERNOR | 22. STARTER/GENERATOR          |
| 16. REDUCTION GEARBOX            | 23. POWER DISTRIBUTION BOX     |
| 17. OIL LINES                    | 24. STANDBY ALTERNATOR         |
| 18. SPARK IGNITER                | 25. AUXILIARY POWER RECEPTACLE |
| 19. ENGINE MOUNT BRACKET         | 26. FUEL FILTER                |
| 20. INDUCTION AIR PLENUM         | 27. STANDBY ALTERNATOR         |
| 21. COMPRESSOR INLET             | 28. COMPRESSOR DRAIN LINE      |
| 22. ENGINE MOUNT TRUSS           | 29. FUEL MANIFOLD DUMP VALVE   |
|                                  | 30. OIL COOLER PRESSURE HOSE   |

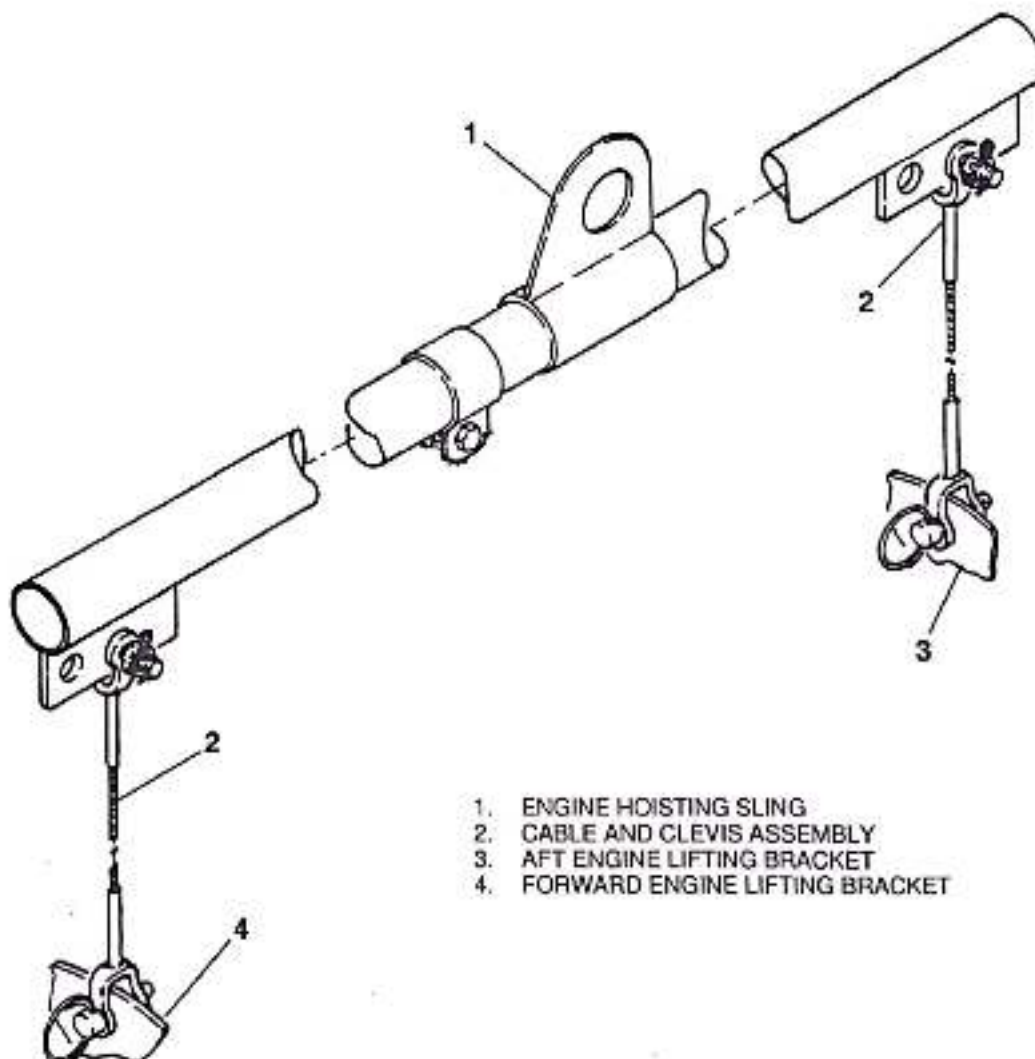
Figure 1 Sheet 2

2652X1003



## SMART AVIATION ENGINEERING ORDER

A21790



1. ENGINE HOISTING SLING
2. CABLE AND CLEVIS ASSEMBLY
3. AFT ENGINE LIFTING BRACKET
4. FORWARD ENGINE LIFTING BRACKET

Figure 02

2680X1244



TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No

Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

**C208B ENGINE INSTALLATION**

Date : 05-01-2023

Work Number : WO/110-SNM/XI/2022

Part No. Engine : PT6A-114A

A/C Total Hours : 3998:13

Ser. No. Engine : PCE-PC 2327

A/C Total Landings : 5474

Engine Time TSN: 3599:32 TSO: 0

CSN: 5232 CSO: 0

Installed on A/C Reg. : PK-SNM








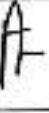

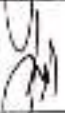




Description	Eng.	RII	Remarks
-------------	------	-----	---------

**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.			

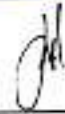
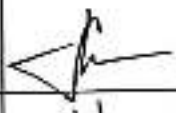

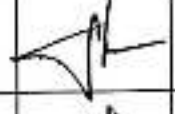


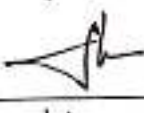













**SMART AVIATION  
ENGINEERING ORDER**

9. Connect torquemeter pressure and vent lines at upper left firewall. Bleed torquemeter 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.			



**SMART AVIATION  
ENGINEERING ORDER**

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 <b>before</b> 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.			



TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No

Original

Rev. Date

18/11/2022

**SMART AVIATION  
ENGINEERING ORDER**

28. Install engine cowling.

*Ab*

29. Make an appropriate entry in Work Order (WO) and  
Aircraft Flight Maintenance Log (AFML)

*[Signature]*

**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

: D. Arya Permana

Stamp

:



Signature

: *[Signature]*

Place/Date

:

LMU / 10 Jan 2023.





TECHNICAL SUPPORT  
TECHNICAL DEPARTMENT  
**ENGINEERING ORDER**

010/EO/TEK-TS/XI/2022

Rev. No

Original

Rev. Date

18/11/2022

**ENGINE CHANGE - Major Component Inventory Record**

Registration	: PC-SNAM	Work Order Number	: W0/U0-SNAM/XI/2022
Airframe Time	: 3998:13.	Airframe Landings	: 5479.
Engine Time	: 0.	Engine Cycle	:

Description	Engine OFF			Engine ON		
	Part Number	Serial Number	Time Remaining	Part Number	Serial Number	Time Remaining
Engine Assembly	PT6A-114A	PC-E-PC2326	01:47.	PT6A-114A	PC-E-PC2327	.
Propeller Assembly	P7036368-0154	190085.	101:47	P7036368-0154.	190085.	101:47
Compressor Bleed Valve	540-1407-4	X		540-1407-4	9488	
Fuel Control Unit	3244897-3	C65097		3244897-3	C65097	
Oil Fuel Heater	10552E	WA58459		10552E	WA58723	
Igniter Exciter	30354889	NNA18450057		30354889	NNA18450057	
Flow Divider	CPW30199065	NSN		CPW30199065	NSN	
Oil Cooler	9910343-4.			9910343-4.		
Starter Generator	30056L145Q		41:28.	30056L145Q	.	41:28.
Alternator	C611505-0201			C611505-0201		
Fuel Pump	702801-5			702801-5	004367	
Propeller Governor	3079154-01	21590499		8210-002-01	21033165	
Propeller Overspeed Governor	D210507	21469346.		D210507	21469346	
Fuel Nozzle						

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