



PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject : ENGINE REMOVAL		No.	WO/022-SNW/VI/2023
		Date	8 Jun 2023
		A/C Reg.	PK-SNW C208B-5579
Reference : MP C208B ISSUED 01		Prepared By	TS
		Checked By	CI
		Approved By	TM
To : Engineer In Charge			
Description : <ol style="list-style-type: none">1. Perform Engine Removal2. Make an entry in Maintenance Log.3. Return the Completed Work Order and Form to PPC. <p>#If any finding, please close the routine card, and transferred to inspection card.</p>			
Additional Work :			
Compliance Statement	Sign & Date Company Lic. No.: (Engineer In Charge)	Signature (Technical Manager)	

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

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
8 Jun 2023	WO/022-SNW/VI/2023	Removal	

A/C Type	Mfg. Serial Number	A/C Registration
C208B	C208B-5579	PK-SNW

AIRCRAFT DATA

Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	PCE-VA0651	
	#2	-	
Propeller/Rotor	#1	190815	
	#2	-	
Landing Gear	NLG		
	LH MLG		
	RH MLG		

PACKAGE COVERED

No	Subject	Qty	Remark
1	Non-Routine Card	1	
2	Inspection Card	1	
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>					
<u>IC-002</u>					
<u>IC-003</u>					
<u>IC-004</u>					
<u>IC-005</u>					
<u>IC-006</u>					

<u>001</u>					
<u>008</u>					
<u>001</u>					
<u>010</u>					
<u>011</u>					
<u>011</u>					
<u>013</u>					
<u>011</u>					
<u>011</u>					

Technical Support

Technical Support

Chief Maintenance

Chief Inspector

Appointed
Technical Manager

Dwi M.

Dodit

Yanuar

Istiono



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

WO Ref: WO/022-SNW/VI/2023

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-01 006/EO/TEK-TS/VI/2023	PT6A-140 ENGINE REMOVAL				



PT. SMART CAKRAWALA AVIATION

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

A/C TYPE	CESSNA 208B	TTSN	:
A/C REG	PK-SNW	TCSN	:
MSN	C208B-5579	DATE	:
TYPE OF INSPECTION	ENGINE REMOVAL		
DUE AT	UNK		
REFF	MP C208B ISSUED 01		
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
	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/22-SNW/VI/2023		REMOVAL	PK-SNW
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
001	71		
9. ZONE	10. PANEL		
POWERPLANT			

11. DESCRIPTION

ENGINE REPLACEMENT PT6A-140 P/N

OFF : 3076226-01/BS1294 S/

S/N OFF : PCE-VA0651

REFERENCE	<input type="checkbox"/> AMM	<input checked="" type="checkbox"/> EMM	<input type="checkbox"/> OTHER
RII (*)	<input type="checkbox"/> Y	<input type="checkbox"/> N	MHR :

12. RESULT				MECH	ENG	INSP (*)
Performed at A/C TT : A/C TC /LDG :						
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

006/EO/TEK-TS/VI/2023

Rev. No	ORIGINAL
---------	----------

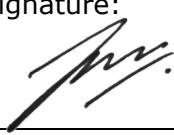
Rev. Date	08/06/2023
-----------	------------

ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

REMOVAL OF ENGINE ASSY PT6A-140 ON CESSNA 208B

PT. SMART CAKRAWALA AVIATION

Prepared	Checked	Approved
Technical Support	Chief Inspector	Technical Manager
Signature: 	Signature: 	Signature: 
Name: Dwi M.	Name: Yanuar A. Fatah	Name: Istiono
Date: 8 Jun 2023	Date: 8 Jun 2023	Date: 8 Jun 2023



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

SMART AVIATION ENGINEERING ORDER

No. EI:
006/EO/TEK-TS/VI/2023

Rev. No. :
ORIGINAL

Date Issued :

Jun 8, 2023

Task Description :

**REMOVAL uOF ENGINE ASSY PT6A-140 ON
CESSNA 208B**

Data Reference :

- **Model 208 Series Maintenance Manual
Revision 39, Revision Date Mar 1, 2023
Chapter 71 Power Plant – Maintenance
Practices**

Aircraft Type :

**CESSNA 208B WITH ENGINE MODEL PT6A-
140**



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

SMART AVIATION ENGINEERING ORDER

1. Description.

This EO is issued, to perform removal & installation checklist powerplant maintenance practices the PT6A-140 engine on Cessna 208B.

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNW	208B-5579

3. Compliance

The Engine model PT6A-140 have TBO 4000 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	[<input checked="" type="checkbox"/>]	MATERIAL SUPPORT	[<input checked="" type="checkbox"/>]
SAFETY & QUALITY MANAGER	[<input checked="" type="checkbox"/>]	TECHNICAL SUPPORT	[<input checked="" type="checkbox"/>]
CHIEF INSPECTOR	[<input checked="" type="checkbox"/>]	FILE	[<input checked="" type="checkbox"/>]

5. Manhours

32.0 man-hour to do the inspection.

6. Material.

NIL

7. Special Tool Required.

7/8 inch special tool 1 SET

8. Publication Affected.

None.



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

SMART AVIATION ENGINEERING ORDER

9. Accomplishment Instructions.

C208B ENGINE REMOVAL

Date : _____	Work Number : _____
Part No. Engine : PT6A-140	A/C Total Hours : _____
Ser. No. Engine : _____	A/C Total Landings : _____
Engine Time TSN: _____	TSO: _____
CSN: _____	CSO: _____
Removed from A/C Reg. : PK- SNW	

Description	Eng.	RII	Remarks
A. REMOVE ENGINE (Refer to Figure 201 and Figure 202)			
CAUTION: Chock main wheels and place a tailstand under tailcone before attempting engine removal.			
1. Remove external electrical power from the airplane.			
2. Pull fuel firewall shutoff control out (off).			
3. Remove the cowling components as follows. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices: (a) The upper cowling doors. (b) The lower cowling panels. (c) The right nose cap.			
4. Use the filter drain to drain the residual fuel from lines and fuel filter. Refer to Chapter 28, Fuel Lines, Valves and Filters - Maintenance Practices.			
5. Remove the fuel supply hose at the fuel heater. Refer to Chapter 73, Oil-To-Fuel Heater - Maintenance Practice section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
6. Remove the fuel motive flow hose at the motive flow shut-off valve. Refer to Chapter 73, Fuel Control Unit - Maintenance Practices section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
7. Remove the oil cooler. Refer to Chapter 79, Oil Distribution - Maintenance Practices (PT6A-140).			



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

SMART AVIATION ENGINEERING ORDER

8. Remove top cowl center panel assembly and nosecap. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices			
9. Remove the propeller. Refer to Chapter 61, Propeller (Hartzell) - Maintenance Practices.			
10. Disconnect and remove propeller speed control cable. Refer to Chapter 76, Quadrant Assembly And Controls - Maintenance Practices.			
11. Remove the left nose cap/induction air duct/inertial air separator. Refer to Chapter 71, Inertial Air Separator - Maintenance Practice			
13. Disconnect the cabin heater bleed air line at the flow control valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices.			
14. Disconnect the bleed air hose at mixing air valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices			
15. Remove the starter/generator cooling air hose from starter/generator. For the 300 Amp Starter/Generator refer to Chapter 80, 300 AMP Starter/Generator Cooling Air Duct - Maintenance Practices. For the 200 Amp Starter/Generator refer to Chapter 80, Starter/Generator Cooling Air Blast Tube - Maintenance Practices			
16. Remove the oil pressure switch supply hose. Refer to Chapter 79, Oil Pressure Switch - Maintenance Practices			
17. Remove engine fire detector wiring harness. Chapter 26, Fire Detection System - Maintenance Practices			
18. Disconnect electrical wiring connectors and ground wires at the following equipment locations: <ul style="list-style-type: none">• Battery Connector (PN004) (aft right side of engine)• Prop Overspeed Valve Connector (PN041) (left front of engine)• NP Speed Tach (PN033) (right front of engine)• Cabin Heat Bleed Air Valve connector (PN043) (lower right side of engine)• Oil Pressure Switch (PN030) (right side on engine truss).• Oil Temperature Sensor connector (PN031) (right rear of engine)• NG Speed Tach (PN034) rear, (lower right side of engine)• Starter Generator Connector (PN002) (center top of engine accessory case)• Ignition Exciter Connector (PN040) (right engine mount truss)• Fuel Flow Connector (PN032) (rear, lower right side of engine)• Torque Transducer (PN038) (right engine mount truss)			



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

SMART AVIATION ENGINEERING ORDER

- RGB Chip Detector (PN035) (right engine mount truss)
- Engine ground straps airplane frame connections.

19. Disconnect the engine power control cables at fuel control unit. Refer to Chapter 73, Fuel Control Unit - Maintenance Practices section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.

20. Remove torque meter pressure and vent lines at forward upper right side of engine mount truss. Refer to Chapter 77, Wet Torque Indicating System - Maintenance Practices (PT6A-140).

21. Connect hoist sling to forward and aft lifting brackets and connect sling to engine hoist.

22. Raise hoist to just support weight of engine and remove nuts and bolts at each of four corners of engine mounting ring.

23. Make sure that all wiring and lines are free, then carefully move hoist and engine forward to clear engine mount truss.

24. If engine is to be returned for overhaul or replaced refer to Prepare Engine to Send for Service.

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



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

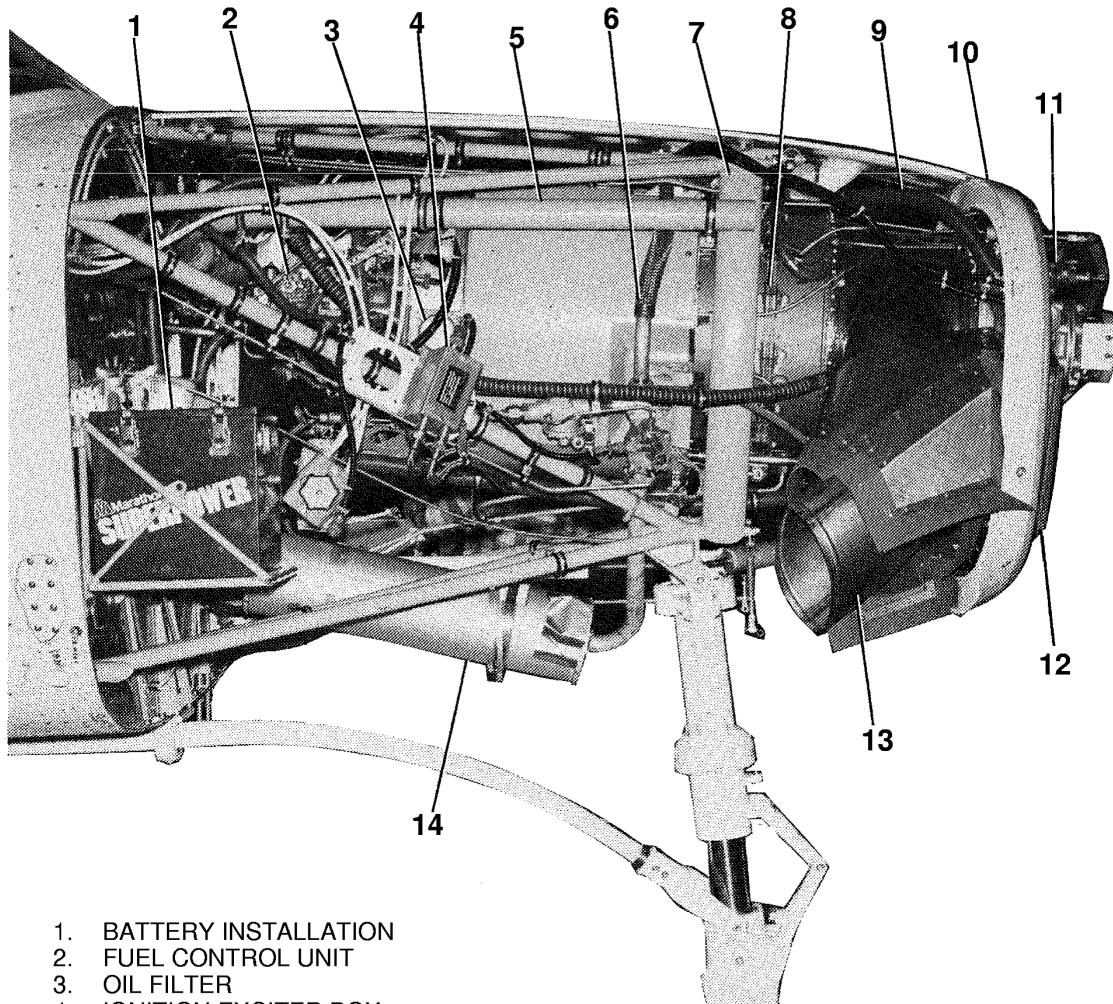
006/EO/TEK-TS/VI/2023

Rev. No	ORIGINAL
---------	----------

Rev. Date	08/06/2023
-----------	------------

SMART AVIATION ENGINEERING ORDER

A21758



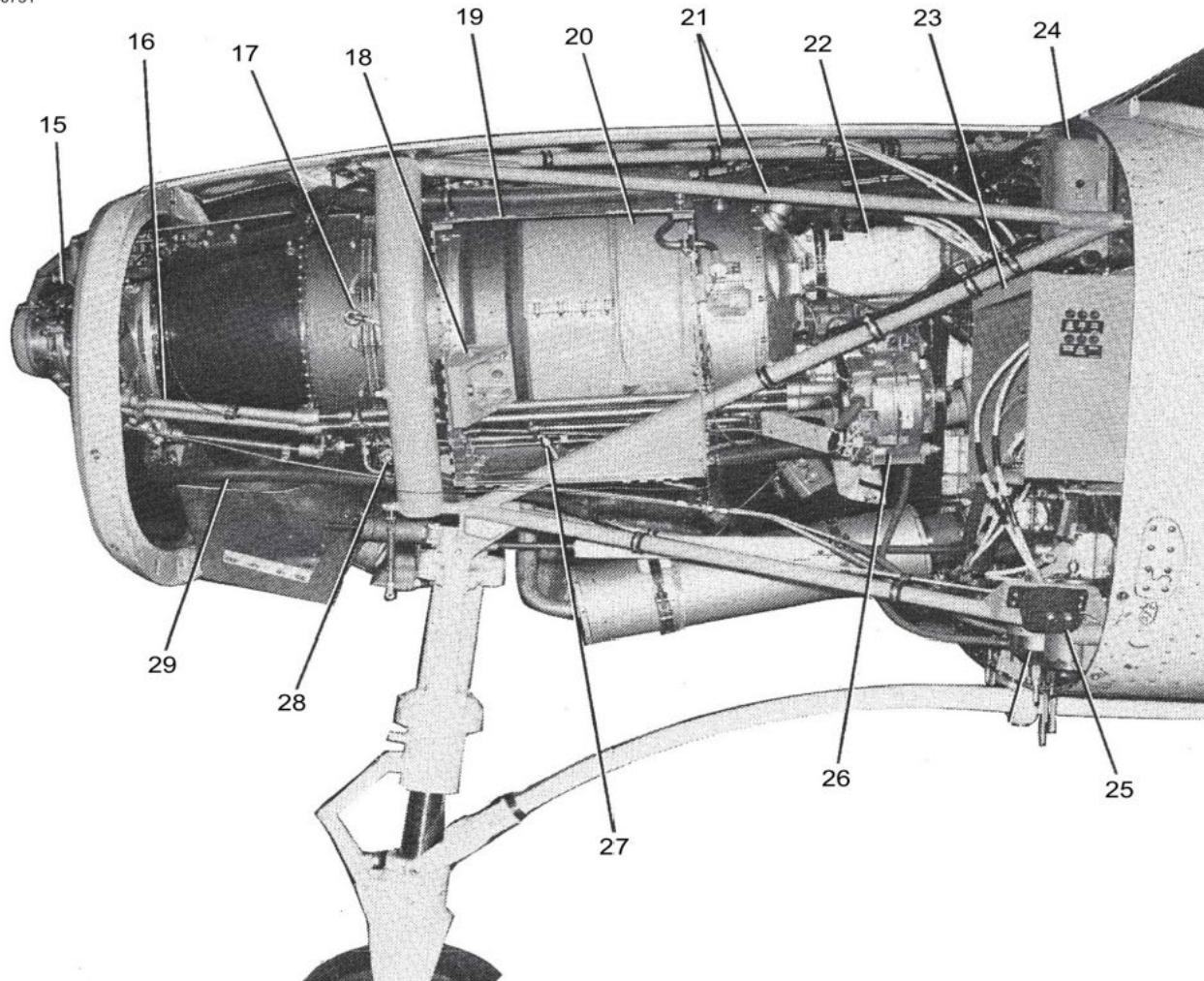
1. BATTERY INSTALLATION
2. FUEL CONTROL UNIT
3. OIL FILTER
4. IGNITION EXCITER BOX
5. STARTER/GENERATOR COOLING AIR BLAST TUBE
6. BLEED AIR PRESSURE LINE
7. ENGINE MOUNT RING
8. FUEL MANIFOLD
9. OIL RETURN FROM OIL COOLER
10. RIGHT COWLING BULKHEAD
11. PROPELLER GOVERNOR
12. OIL COOLER
13. PRIMARY EXHAUST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

2650X1002

Figure 201 Sheet 1

SMART AVIATION ENGINEERING ORDER

A90731



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

Figure 201 Sheet 2



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

006/EO/TEK-TS/VI/2023

Rev. No ORIGINAL

Rev. Date 08/06/2023

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 FILLED ON INSPECTION CARD (SCA/MTC/048)