


| | | | | | |
|--|------------------------------|--|---|--|----------|
|  | | PLANNING & PREPARATION FOR INSPECTION TECHNICAL DEPARTMENT PT. SMART CAKRAWALA AVIATION | | DATE : 2 Dec 2022 AIRCRAFT REG. : PK- SNO 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 : 1 Person MECHANIC : 2 Person RII : 1 Person ADDITIONAL MANPOWER : - 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) | ENGINE ASSY | 1 | |
| | | 3074153-01 | PROPELLER GOVERNOR | 1 | |
| | | A 1633-72 | O RING HUB TO PROPELLER SHAFT | 1 | |
| | | A 1639-32 | 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 | |
| | | M83248/1-113 | 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 | |
| | | VSF1015N12B | 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 | |
| | | S2808/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 | |
| | | 2380 | 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 Installation | No. | WO/006-SNO/XII/2022 |
| | Date | 2 December 2022 |
| | A/C Reg. | PK-SNO C208B-2375 |
| Reference : MP C208B Rev. 12 EI NO. 011/EO/TEK-TS/XII/2022 | Prepared By | TS |
| | Checked By | CI |
| | 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) |

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 | | | |
| | | | | | |
| 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 | | | |
| | #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 | |
| <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>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

Checked by :
Chief Maintenance

Verified by :
Chief Inspector

Approved by :
Technical Manager



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Hani



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Dodit



.....

Yanuar



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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 :

REF : 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 | | | 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 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |


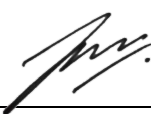

| | | | | |
|---|---|--|------------------------|-----------|
|  | TECHNICAL SUPPORT TECHNICAL DEPARTMENT ENGINEERING ORDER | | 011/EO/TEK-TS/XII/2022 | |
| | | | Rev. No | Original |
| | | | Rev. Date | 2/12/2022 |


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 : <ul style="list-style-type: none"> - 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 | [] | 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

011/EO/TEK-TS/XII/2022

Rev. No

Original

Rev. Date

2/12/2022

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.



TECHNICAL SUPPORT
TECHNICAL DEPARTMENT
ENGINEERING ORDER

011/EO/TEK-TS/XII/2022

Rev. No

Original

Rev. Date

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**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. | | | |



TECHNICAL SUPPORT
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ENGINEERING ORDER

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**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 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. | | | |

| | | | | |
|---|---|--|------------------------|-----------|
|  | TECHNICAL SUPPORT TECHNICAL DEPARTMENT ENGINEERING ORDER | | 011/EO/TEK-TS/XII/2022 | |
| | | | Rev. No | Original |
| | | | Rev. Date | 2/12/2022 |

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 TECHNICAL DEPARTMENT ENGINEERING ORDER | | 011/EO/TEK-TS/XII/2022 | |
| | | | Rev. No | Original |
| | | | Rev. Date | 2/12/2022 |

| ENGINE CHANGE - Major Component Inventory Record | | | |
|--|---|-------------------|---|
| Registration | : | Work Order Number | : |
| Airframe Time | : | Airframe Landings | : |
| Engine Time | : | Engine Cycle | : |

| | Engine OFF | | | Engine ON | | |
|------------------------------|-------------|---------------|----------------|-------------|---------------|----------------|
| Description | 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)



Additional Work Sheet

Engine Assy Installation

Aircraft Registration: **PK-SNO**

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

Parts Used Sheet

Special Tool Used

[illegible]



Additional Work Sheet

Engine Assy Installation

Aircraft Registration: **PK-SNO**

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

Parts Used Sheet

Part Used

[illegible]