PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject : **Tailboom Removal / Installation**	No.	WO/065-SNX/IV/2023
	Date	11-Apr-2023
	A/C Reg.	PK-SNX EC130T2-8829
Reference : MP EC 130 T2 Rev. 2	Prepared By	TS
	Checked By	CI
	Approved By	TM

To : Engineer In Charge

Description :

1. Perform Tailboom Removal / Installation and added task.
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	Sign & Date 8. Aug. 23 Company Lic. No.: SCA.22	Signature
C/O	Inwa (Engineer In Charge)	(Technical Manager)

Appendix B - Form: **SCA/MTC/030**

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

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
11 APRIL 2023	WO/065-SNX/IV/2023	Removal / Installation Tail Boom	26 JUNE 2023

A/C Type	Mfg. Serial Number	A/C Registration
EC130T2	8829	PK-SNX

AIRCRAFT DATA

Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	53467	830 : 26 / 2121
	#2	-	
Propeller/Rotor	#1	-	830 : 26 / 2121
	#2	-	
SKID ~~Landing Gear~~	NLG	-	830 : 26 / 2121
	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	1	✓
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 : Technical Support	Checked by : Chief Maintenance	Verified by : Chief Inspector	Approved by : Technical Manager
Hani	Dodit	Yanuar	Istiono

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

WO Ref: WO/065-PK-SNX/IV/2023

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	EO-003	TAILBOOM REMOVAL / INSTALLATION	26/06/23	-		

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INSPECTION CARD
(Form: SCA/MTC/ 048)

TECHNICAL DEPARTMENT

1. CARD #	2. JO/WO #	3. ORIGINATOR	4. CARD REF	5. DATE
				JUNE, 26. 2023.
6. A/C REG/MSN	7. A/C TYPE	8. TRADE	12. VENDOR ORDER #	
PK SNX / 8829	EC- 130 T2			
9. ZONE	10. STA	11. MTC TYPE		

13. DESCRIPTION/DEFECT-IF FINDING OF CPCP INSPECTION, PLEASE COMPLETE SET. 20	14 PPC/ENG	15 DATE
NONE .		

16. CORRECTIVE ACTION	17 MECH	18 ENG. LIC	19 DATE
Performed at A/C TT : ..... A/C TC /LDG :			
20. CORROSION INFORMATION			
LOCATION			
CORROSION ☐ Isolated ☐ Widespread			
CORROSION LVL ☐ 1 ☐ 2 ☐ 3			
PROPOSED ACTION ☐ Doublers			
☐ Others			
.....			

CAUSE OF DAMAGE
☐ Environment
☐ Internal Leakage
☐ Chemical Spill
☐ LAV/Galley Spill
☐ Blocked Drain
☐ 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

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PT. SMART CAKRAWALA AVIATION

CERTIFICATE RETURN TO SERVICE

SCHEDULED MAINTENANCE INSPECTION
(CRS-SMI)

A/C TYPE	: EC 130 T2	TTSN	: 830:26/
A/C REG	: PK-SNX	TCSN	: 2121.
MSN	: 8829	DATE	: 26 JUNE 23

TYPE OF INSPECTION : Tailboom Removal / Installation
DUE AT :
REFF : MP EC 130 T2 Rev. 0

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
IMAN NURDIN	AIRFRAME & POWER PLANT	2096		26/06/2023
	EIRA			

THE NEXT DUE TYPE OF INSPECTION :

DUE AT :

Form: SCA/MTC/049

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ENGINEERING ORDER

003/EO/TEK-TS/IV/2023

TAILBOOM REMOVAL / INSTALLATION FOR EC130T2 PK-SNX

PT. SMART CAKRAWALA AVIATION

Prepared	Checked	Approved
Technical Support	**Technical Manager**	**Chief Inspector**
Signature:	Signature:	Signature:
Name: Dwi M	Name: Istiono	Name: Yanuar A. F.
Date: 10 April 2023	Date: 10 April 2023	Date: 10 April 2023

SMART AVIATION
ENGINEERING ORDER

Aircraft Reg.: **PK-SNX (8829)**	Make/Model: **EC130T2**	No. EO: **003/EO/TEK-TS/IV/2023**	Rev. No. : **Original**
Total Flight Hours: **830:14**	Total Flight Cycle: **2119**	Date Issued : **10 April 2023**	

Task Description :

TAILBOOM REMOVAL / INSTALLATION ON EC130T2 PK-SNX

Technical Data Reference :

AMM 53-31-00,4-1B Removal / Installation - Rear Fuselage POST MOD 074581 - Rear fuselage

Effectivity :

EC130T2 (PK-SNX)

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SMART AVIATION
ENGINEERING ORDER

1. Description

This document contains requirement for tailboom replacement regarding defect found on maintenance of PK-SNX due to 800 Hrs routine inspection. The reference for the installation of tailboom assy on AMM 53-31-00,4-1B Removal / Installation - Rear Fuselage POST MOD 074581 - Rear fuselage.

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNX	8829

DISTRIBUTION :

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

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SMART AVIATION
ENGINEERING ORDER

3. Compliance.

Removal / Installation of Tailboom on Airbus Eurocopter 130 T2 aircraft registered as PK-SNX MSN 8829.

4. Consumable Material.

CM 6068	Sealing Compound
Commercial	Cloth
Commercial	Cable tie
Commercial	Ballast

5. Special Tools

350A91-2380-02	Tail Boom Sling
350A91-2381-01	Tail Boom Supports
350A91-2780-00	Ball-type Control Protection
Commercial	Lifting Equipment

6. Publications Affected.

None.

7. Accomplishment Instructions.

Description	Eng.	RII	Remarks
Removal of the rear fuselage			
Remove the rear section of the ball-type control (AMM 67-21-00,4-1).			
Remove the horizontal stabilizer (AMM 55-11-00,4-1).			
Remove the TGB (AMM 65-21-00,4-2).			

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SMART AVIATION
ENGINEERING ORDER

Remove the TRH (**AMM 64-21-00,4-2**)			
Remove the tail rotor drive line (**AMM 65-11-01,4-1**) and (**AMM 65-11-01,4-4**)			
Installation of the rear fuselage			
Install the rear section of the ball-type control (**AMM 67-21-00,4-1**). **Note : This item contain RII**			
Install the horizontal stabilizer (**AMM 55-11-00,4-1**).			
Install the TGB (**AMM 65-21-00,4-2**). **Note : This item contain RII**			
Install the TRH (**AMM 64-21-00,4-2**) **Note : This item contain RII**			
Install the tail rotor drive line (**AMM 65-11-01,4-1**) and (**AMM 65-11-01,4-4**)			
NOTE Leave the damper of the front section (12) open and install foam (15) between the front flange of the front section (12) and the firewall fairing (14).			
Install the protective skid (11) included in the tail boom support [X075P6201101] on the lower part of the fenestron fin.			
Remove the ball-type control protection [350A91-2780-00].			
Perform electrical bonding on the attachments as indicated (DETAIL A).			

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SMART AVIATION
ENGINEERING ORDER

NOTE

The surface in contact with the nut (8) or the screw (7) must be stripped over a diameter of 15 to provide electrical bonding. If the stripping is difficult (without damaging the radius of the frame), strip to a diameter of 12.

CAUTION

PAY PARTICULAR ATTENTION TO THE POSITION OF THE SLING STRAPS:

- FRONT STRAP NEXT TO THE FRAME AND POSITIONED AGAINST THE FAIRING (12) OF THE HORIZONTAL STABILIZER WITHOUT OVERLAPPING IT (DETAIL C),
- REAR STRAP / NO CONTACT WITH THE ROTOR BLADES.

Install the tail boom sling [350A91-2380-02] (4) on the rear fuselage (1) as per the operating manual and (DETAIL C).			
Apply tension to the straps using the lifting device (3).			

CAUTION

DEPENDING ON THE HELICOPTER CONFIGURATION, INSTALL MORE OR LESS ballast ON THE FENESTRON HANDLE WITH A MAXIMUM OF 5 KG (11 LB) TO PROVIDE HORIZONTALITY. HOLD THE FRONT AND REAR OF THE REAR FUSELAGE (1) TO PREVENT IT FROM TILTING DURING THE LIFTING OPERATION.

Remove the rear fuselage (1) from the two components (5) and (6) of the tail boom support [X075P6201101].			
Carefully lift the rear fuselage (1).			
Align the rear fuselage (1) in the Y and Z axes with the intermediate structure (2). **Note : This item contain RII**			

CAUTION

- PROGRESSIVELY INSTALL THE BALL-TYPE CONTROL IN THE REAR FUSELAGE (1) WHILE HANDLING IT CAREFULLY (AMM 67-00-00,3-1).
- SLIGHTLY AND CAREFULLY LIFT THE FLANGE OF THE FRONT SECTION (12) TO PASS JUST OVER THE FIREWALL (14).

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SMART AVIATION ENGINEERING ORDER

Connect the rear fuselage (1) to the intermediate structure (2).			
Install the screws (7) and (10), the washers (8) and the new nuts (9).			
NOTE • The screws (7) (quantity 34) and the screws (10) (quantity 4) attaching the tail boom can be installed in either direction. • The Part Number and the length of the 4 attachment screws (10) are different (DETAIL B-B).			
Torque the nuts (9) in a crosswise sequence			
Apply a bead of Sealing compound CM 6068 at the junction of the intermediate structure (2) and the rear fuselage (1).			
Remove the ballast attached to the fenestron handle if necessary.			
Remove the tail boom sling [350A91-2380-02] (4) from the rear fuselage (1)			
Remove the protective skid (11) from the fenestron			
Close-up			
Install the optional equipment as per the work cards related to the helicopter configuration.			
Build up the fenestron (AMM 53-41-00,4-2).			

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SMART AVIATION
ENGINEERING ORDER

Connect the ball-type control a. Assemble the front section and the rear section of the ball-type control at the junction box (AMM 67-21-00,4-1). **Note : This item contain RII**	Bmp		
Connect the front flange of the front section (12) to the flexible coupling connecting it to the engine flange (AMM 65-11-01,4-2).	Bmp		
Close the front section damper (12) (AMM 65-11-01,4-1)	Bmp		
Remove the protective foam (15)	Bmp		
If necessary, install the communication and navigation antennas and the optional equipment as per the work cards related to the helicopter configuration.	Bmp		
Connect the cut-off connectors of the antenna electrical cables and coaxial cables.	Bmp		
Install the battery in the tail boom (AMM 24-33-00,4-1) and connect the battery electrical system cut-off connector.	Bmp		
Perform a functional test:			
a. of the position lights (AMM 33-41-00,5-1),	Bmp		
b. of the anti-collision light (AMM 33-42-00,5-1),	Bmp		
c. of the TGB chip detector indication (AMM 60-00-00,6-2),	Bmp		

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SMART AVIATION
ENGINEERING ORDER

d. of the disconnected installations and optional equipment as per the work cards related to the helicopter configuration.	Bmp		
Close the rear cargo door.	Bmp		
Install the tail drive line cowlings and the tail boom junction cowling.	Bmp		
Make sure that there are no foreign bodies (work cards, ballast , cloths, etc.).	Bmp		

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

RETURN TO SERVICE

I hereby certify that the aircraft has been installed tailboom in accordance with AMM 53-31-00,4-1B and met the requirements as set forth with the Indonesia Civil Aviation Safety Regulation and it is approved for return to service.

Name : Imron

Stamp : 22

Signature : Bmp

Place/Date : LNU, 26 June 2023

- END -

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Additional Work Sheet
Tailboom Installation

Parts Used Sheet

Aircraft Registration: **PK-SNX**

WO# Nr: **WO/065-PK-SNX/IV/2023**

Special Tool Used

No.	Description	Due Date	Engineer
1	TORQUE WRENCH P/N.10268841, S/N.20030501501 41-	SEPT. 2023	IRWAN

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Additional Work Sheet
Tailboom Installation
Parts Used Sheet

Aircraft Registration: **PK-SNX**

WO# Nr: **WO/065-PK-SNX/IV/2023**

Part Used

Date	Part Nr.	Serial Nr.	Description	Qty	Engineer
	AN52320BH060N	—	NUT	29 ea	[illegible]
			HEAD, PITOT TUBE.	1 ea.	
			CONTACTOR RELAY	1 ea.	

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Additional Work Sheet
Tailboom Installation

Parts Used Sheet

Aircraft Registration: **PK-SNX**

WO# Nr: **WO/065-PK-SNX/IV/2023**

Part Used

Date	Part Nr.	Serial Nr.	Description	Quantity	Engineer
	704A39811049		LIP SEAL	1 EA	NINDO
	350A34-5010-00		SHAFT ASSY FWD	1 EA	IRWAN
	350A34-5020-00		SHAFT ASSY AFT	1 EA	IRWAN
	350A34-5025-00		SLEEVE	1 EA	IRWAN
	350A34-5030-00	PPT00126	BEARING EQUIPPED	1 EA	IRWAN
	350A34-5035-00		FLANE-SLIDING	1 EA	NINDO
	350A34-1000-01	M26502.	FLEX. COUPLING	1 EA	IRWAN

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