

Check the Wirings connections as per WKI

Does this solve the problem?

1] Yes

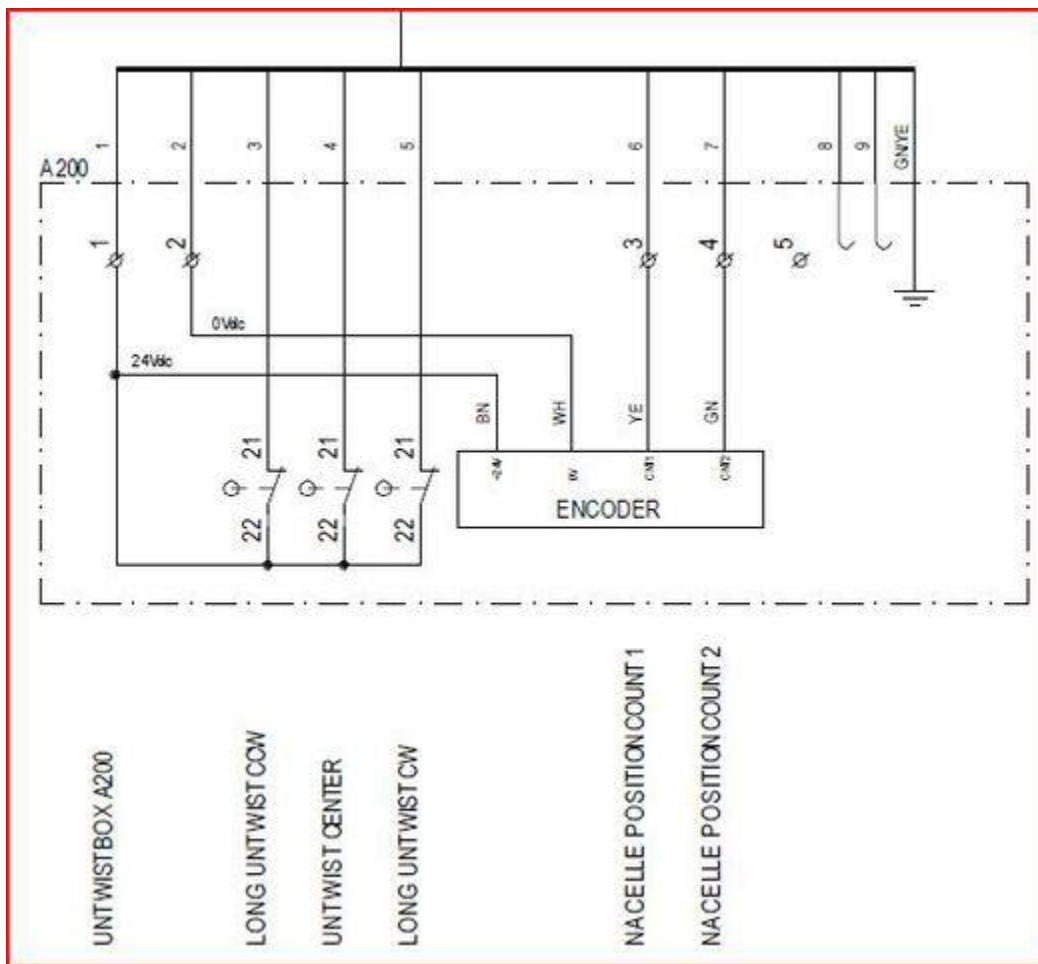
2] No

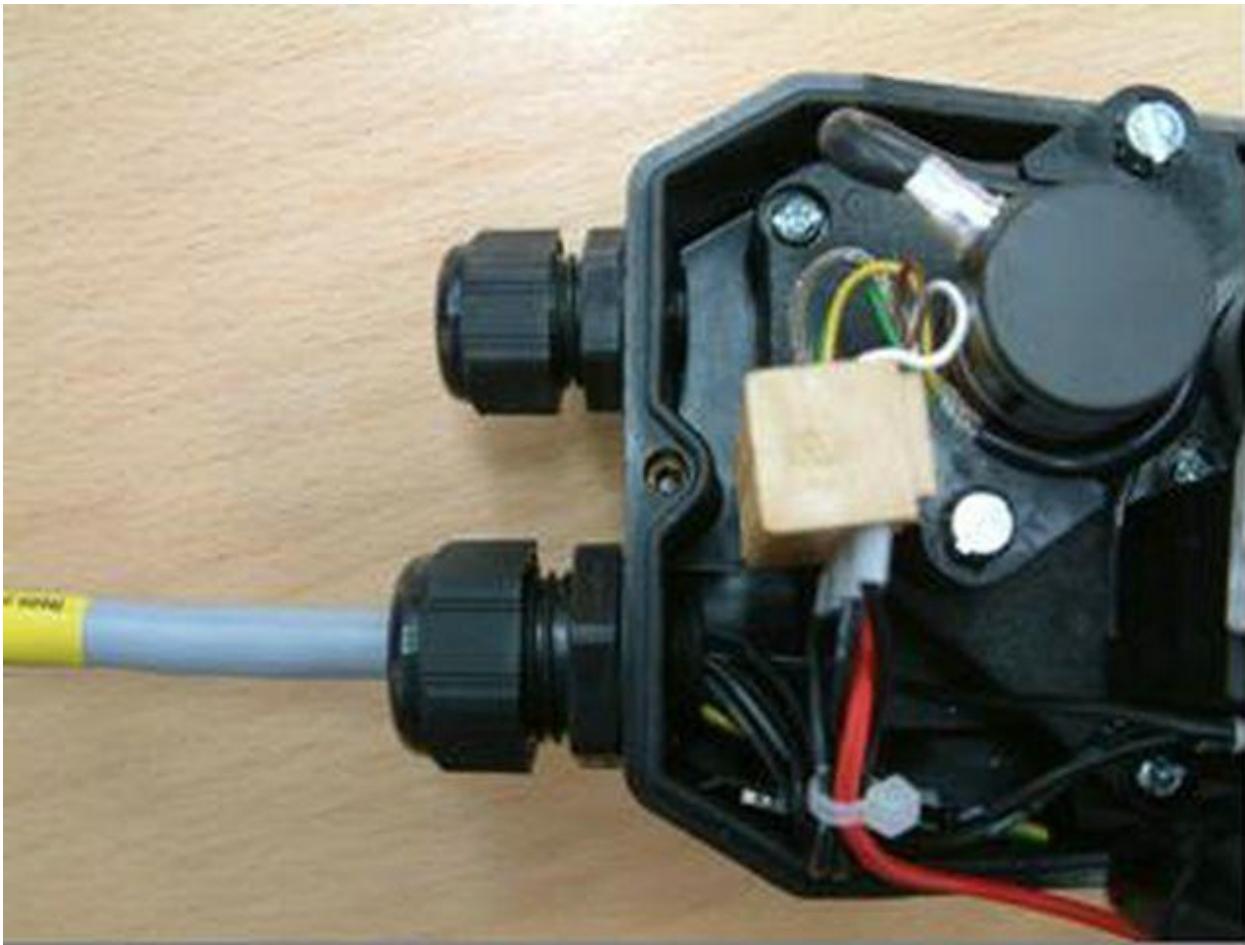
3] I don't know

• **Explanation**

IN THE NACELLE +AN13 box

Check the wire connections inside the yaw box terminals and +AN13 box.





Replace the yaw box

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

IN THE NACELLE:

Possible cause of Error with different conditions:

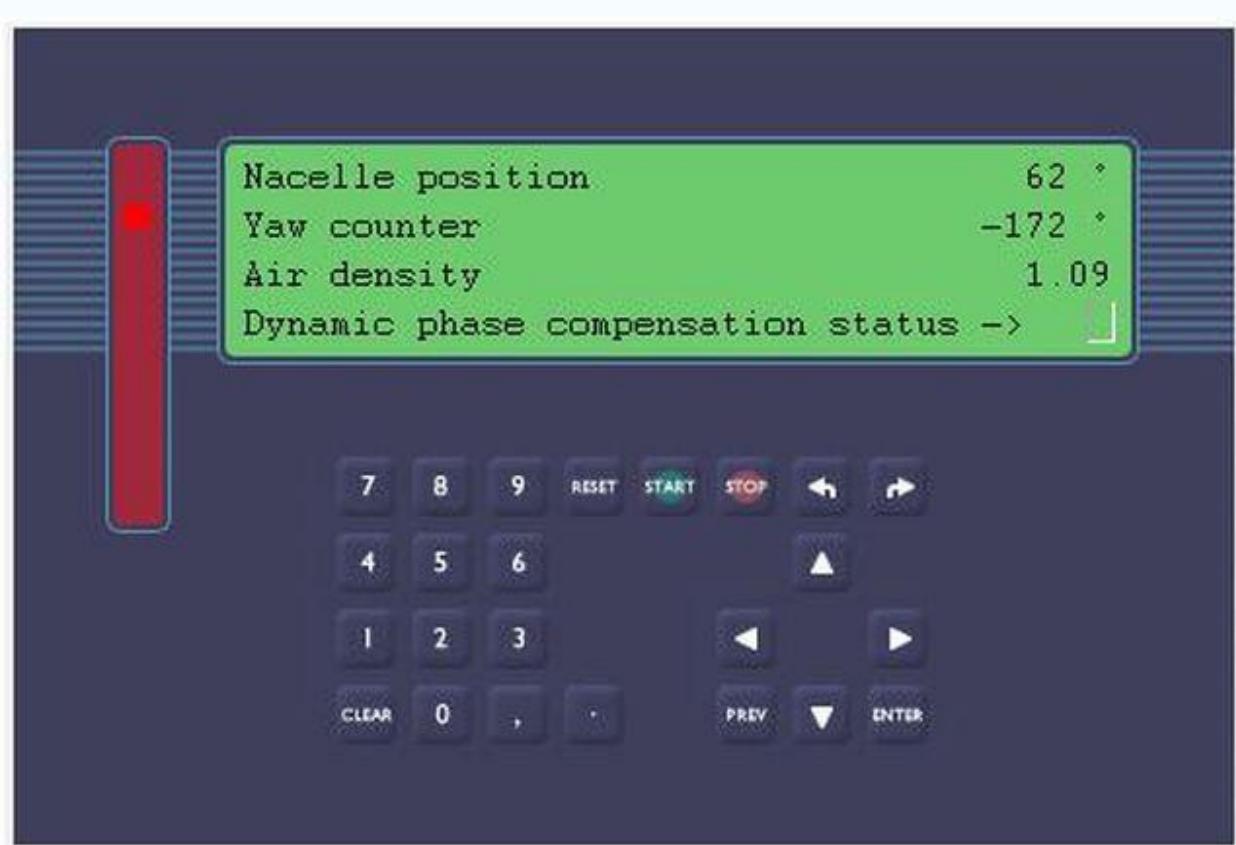
- Power supply to the encoder may fail. In This case while yawing, Nacelle Position count & Yaw counter will remain the same as read even when the turbine is yawing.

- If any one of the signal (count 1 or count 2) is missing in the encoder, then the yaw position will indicate but the yaw counter will not change.
- Under normal conditions if turbines yaw CCW, the yaw counter value should decrease. If this doesn't happen then it may be a wiring problem or defective encoder or a mechanical defect within the yaw box.
- Before referring to the yaw counter values always remember that the count will be zero if the center cam is activated. Until the center cam is released, the count will remain at zero. At the time of yawing only the nacelle position value will change and this depends on the direction of yaw.

TOI Input:

INPUT 500-523	INPUT 525-613
Vibration ball	Shaft brake worn
● Overspeed TAC84	Shaft brake hot
● Vibration TAC84	Gear oil filter clogged
● Manual start top box	Off-line filter clogged
● Manual stop top box	Drip tray level
● Manual yaw CW	Beacon light fault
● Manual yaw CCW	Ice detector
● Long untwist CW	Gear oil level
● Untwist center	Shaft brake lock
● Long untwist CCW	Service key top box
● Nacelle position count 1	Ice detector fault
● Nacelle position reset	Tac 84 downwind
● Nacelle position count 2	Tac 84 lateral
● Wind vane 1 0°	External alarm 7
● Wind vane 1 90°	External alarm 8
● Wind vane 2 0°	Pitch oil level low
● Wind vane 2 90°	Pitch oil level very low
	Hub hatch override
	Hub hatch closed

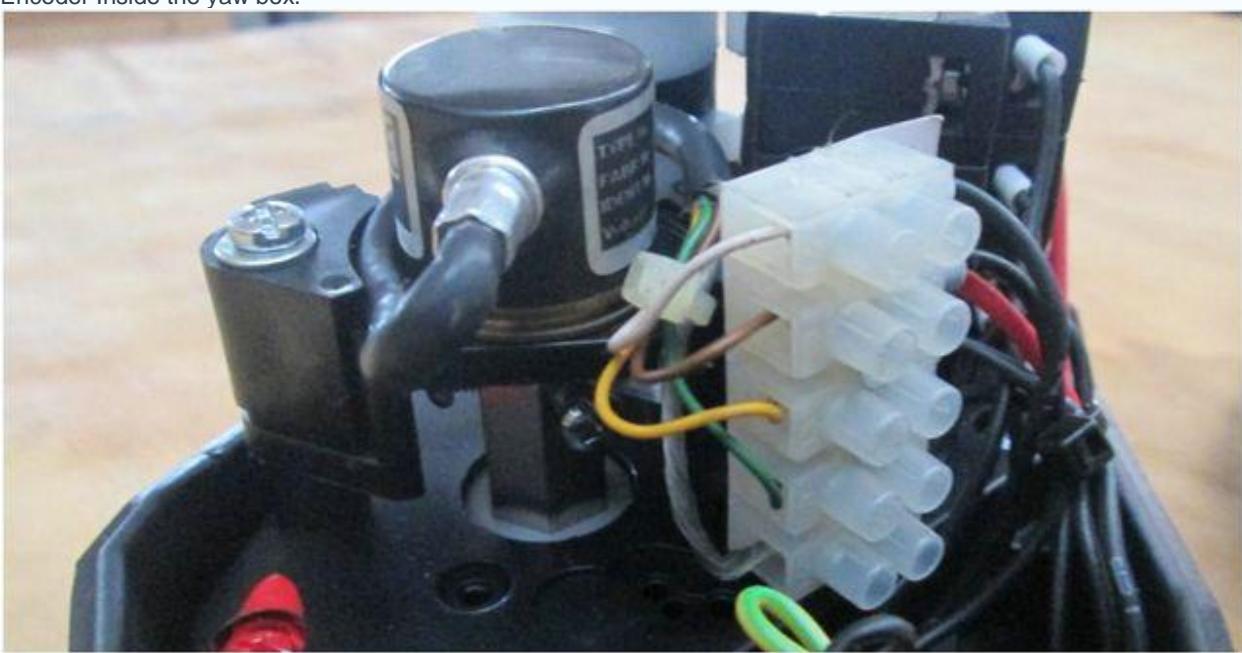
TAC counter:



Yaw Box Assembly:



Encoder Inside the yaw box.



Part Number detail:

Yaw box With cable:

60019732 YAW BOX W ENCODER RESET SEN

Yaw box Without cable:

60009234 YAW SENSOR

Encoder of Yaw box:

60106432 ENCODER SCA

Check the yaw box setting and execute the testing of cams. Refer to document [DMS 0000-9925](#) - Commissioning Instruction Section 5.14.3

Part Number detail:

Yaw box With cable:

60019732 YAW BOX W ENCODER RESET SEN

Yaw box Without cable:

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Adjusting the yaw twist box as per SWI, DMS [0004-4426](#)

Replace the defective nacelle TOI

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**

IN THE AN1 CABINET:

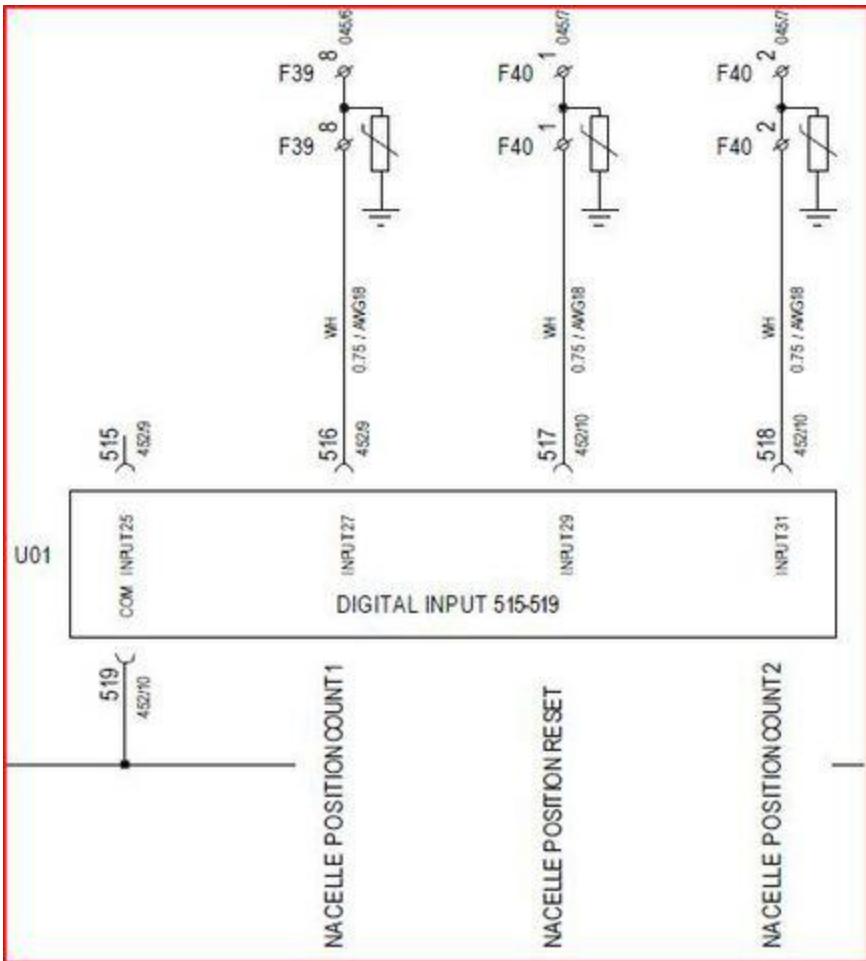
Check the indication on the nacelle TOI during yawing, the LED should blink and TAC yaw counter value should change.

If the value does not change in TAC, then the cause is likely a faulty Nacelle TOI.

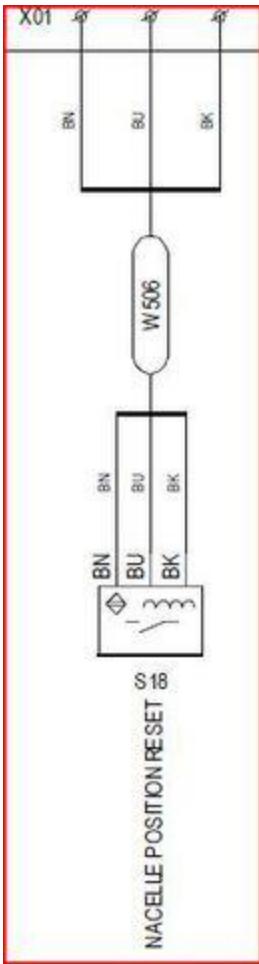
Nacelle TOI part Number:

51701601 TOI-II INTERF EXT POC



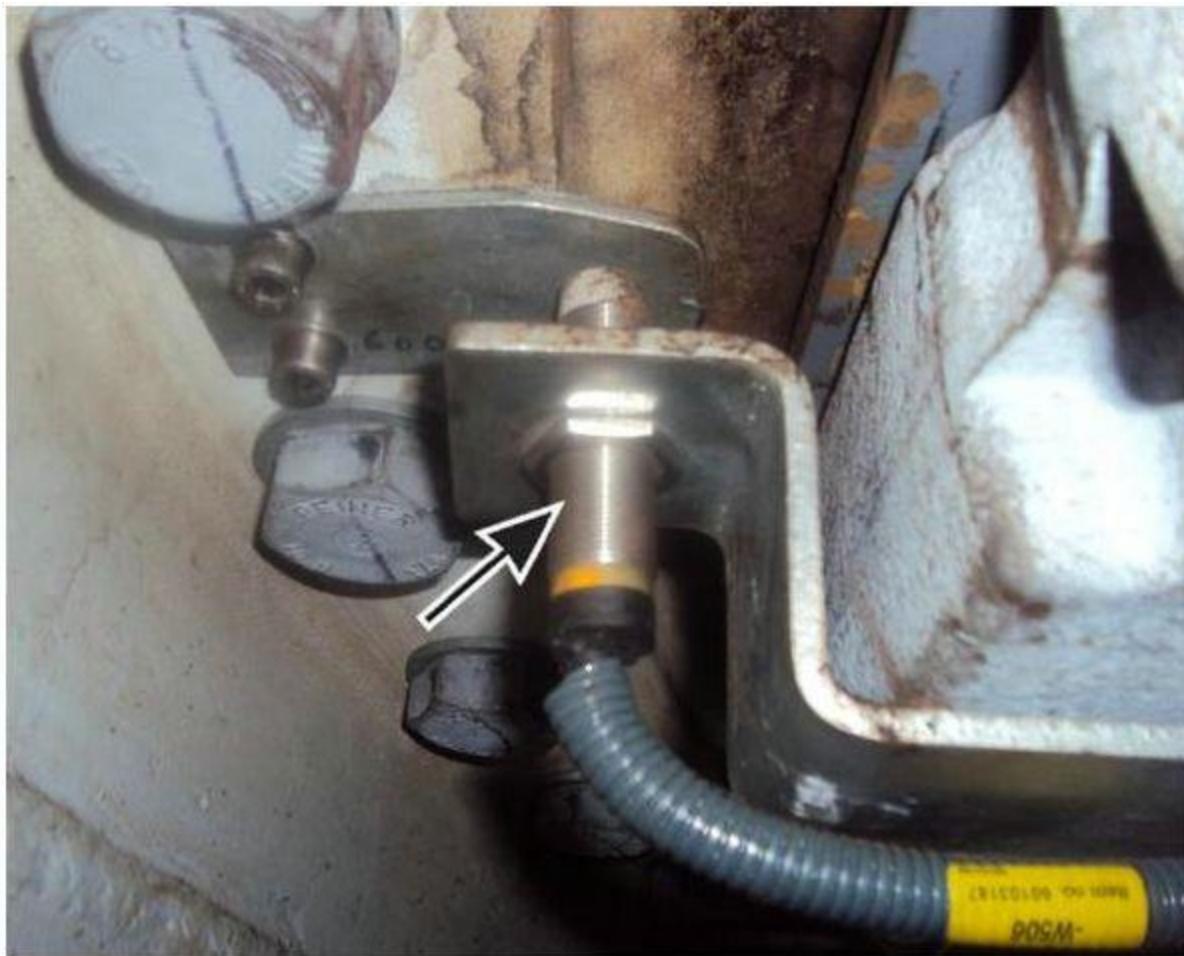


Check the nacelle position reset sensor connect, if required replace the new sensor.



Part Number sensor:

60009270 PROXI SWITCH I1808PPOS1531 Ø18



Yaw reader wheel damage

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**
IN THE NACELLE:

Check that the yaw reader wheel which is connected to the yaw box

PWI- Yaw box assembly: DMS : [1001465](#)

Drawing: Yaw box assembly: DMS : [60109909](#)

Check the teeth on the remaining yaw gear pinion wheels for any damage.

