

Replace the defect pitch position sensor

Does this solve the problem?

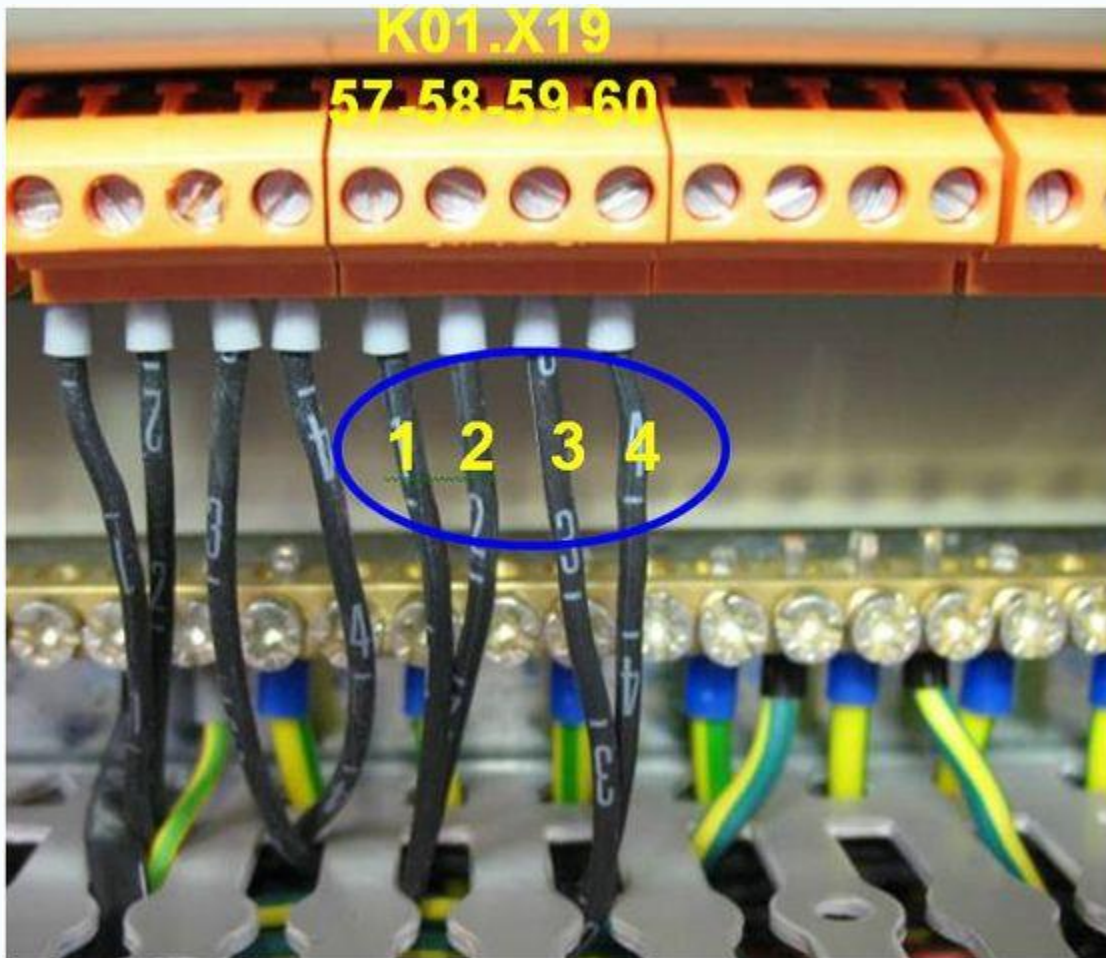
1] Yes

2] No

3] I don't know

- **Explanation**  
**IN THE HUB PANEL +AK4:**

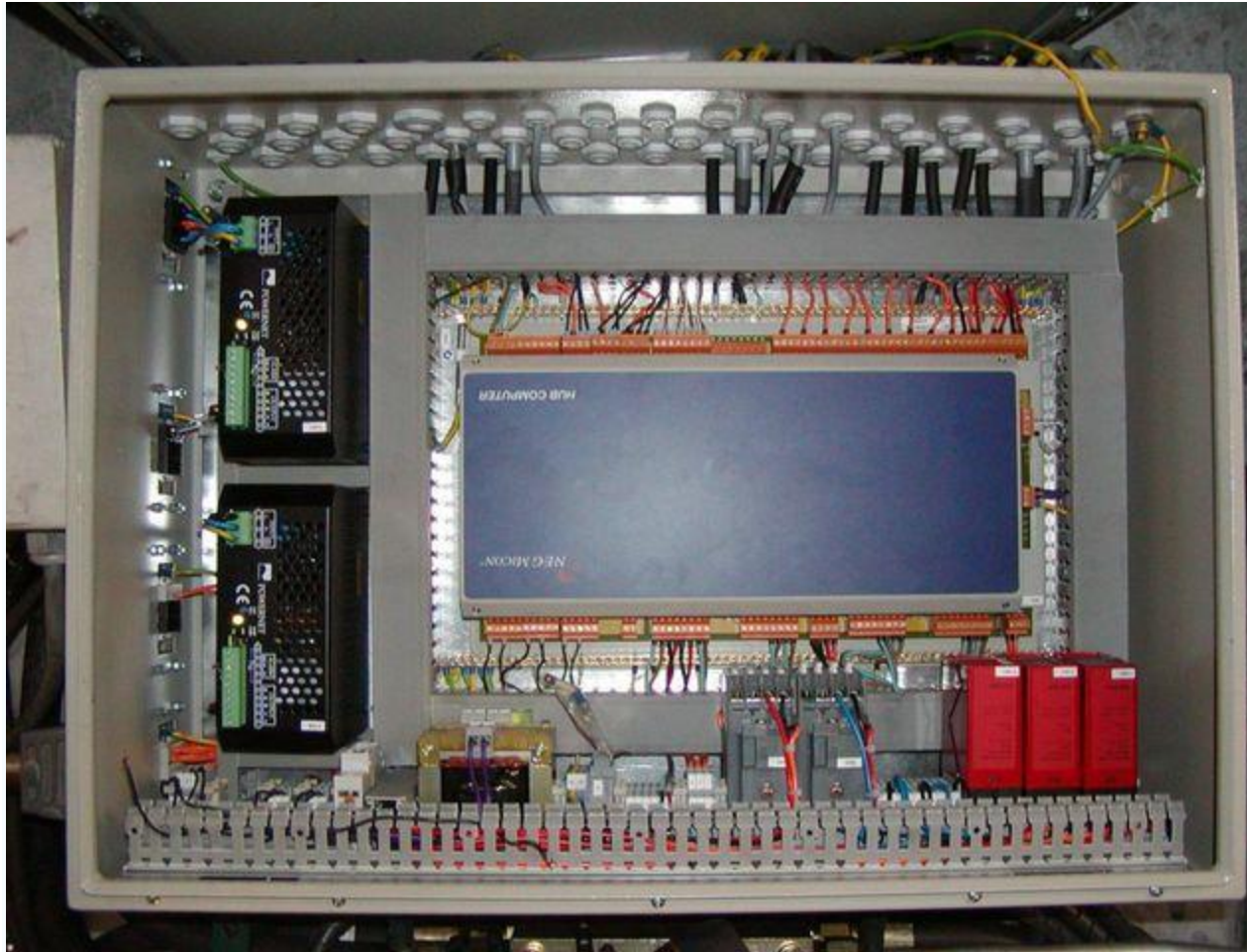
Check if any loose connection in the hub computer terminal X19



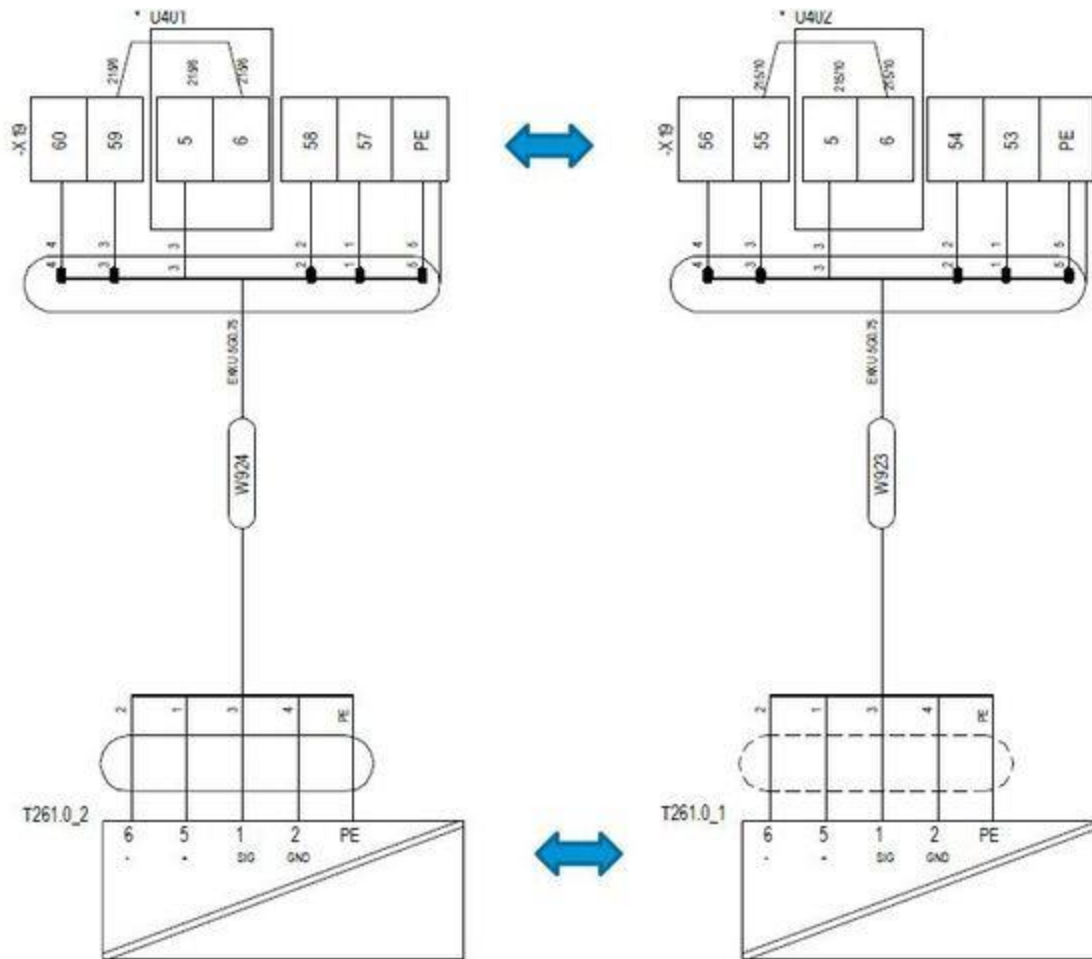
Check if any loose connection for Blade B position sensor.



Swap the signal wire to the position transducer (Balluff) on the hub computer. If the fault follows to the new blade then the fault is either in the position transducer or one of the cables.



In the example below, we are swapping the plugs between blades B and A.



Place the cables back to their original position and then swap pitch position sensor from affected blade to another working blade.

If the alarm follows the component to the other blade, the pitch position sensor is defective.

If it does not, the pitch position sensor is likely not the cause.

**Pitch position sensor Item number :**



60098816 - TRANSDUCER BTL5-E10-M0950-A-S



Service Module Item Number :

60102394 - SERVICEMODUL, BTL5 - E10



**Pitch position sensor cable Item Number:**

60101018	Cable W 923 Pos.transducer1 Std
60101148	Cable W 924 Pos.transducer 2 Std
60101149	Cable W 925 Pos.transducer 3 Std

**Replace the defective power net**

**Does this solve the problem?**

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

- **Explanation  
IN THE HUB:**

Check for loose connections in the powernet (Pos: G401)

Check input and output voltage 230VAC/24VDC

If defective, replace the power net.



Part number for power net:

188453 PS ADC 5483R-3 10A-27,4 NM PIN

**Perform blade position calibration as per the WKI**

**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**  
**IN THE Nacelle:**

Perform the blade calibration. Original calibration may be altered after component replacement. Like position sensors (Balluf), cables, proportional valves and hub computer.

DMS: [0000-9925](#) section 5.10.9 Blade Position Calibration during manual pitching in the Nacelle Mode.

Also refer Blade Pitch System Test DMS :[0002-0467](#)

### **Replace the defect Hub Computer**

#### **Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**  
**IN THE HUB:**

If after the blade calibration, there continue to be any pitch angle deviations, or the angle values show constant when pitching the blades, the hub computer may be defective.

**Hub Computer Part Number: 51701801**



