

Check the circuit for any loose/ bad connection

Does this solve the problem?

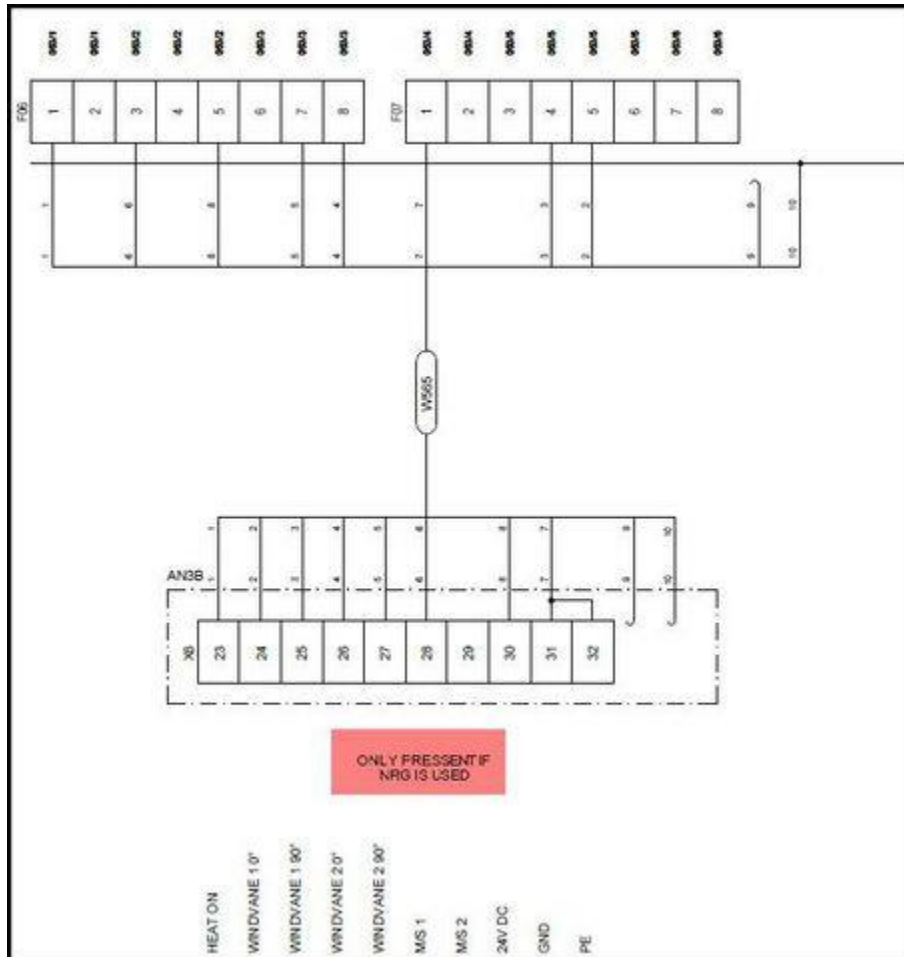
1] Yes

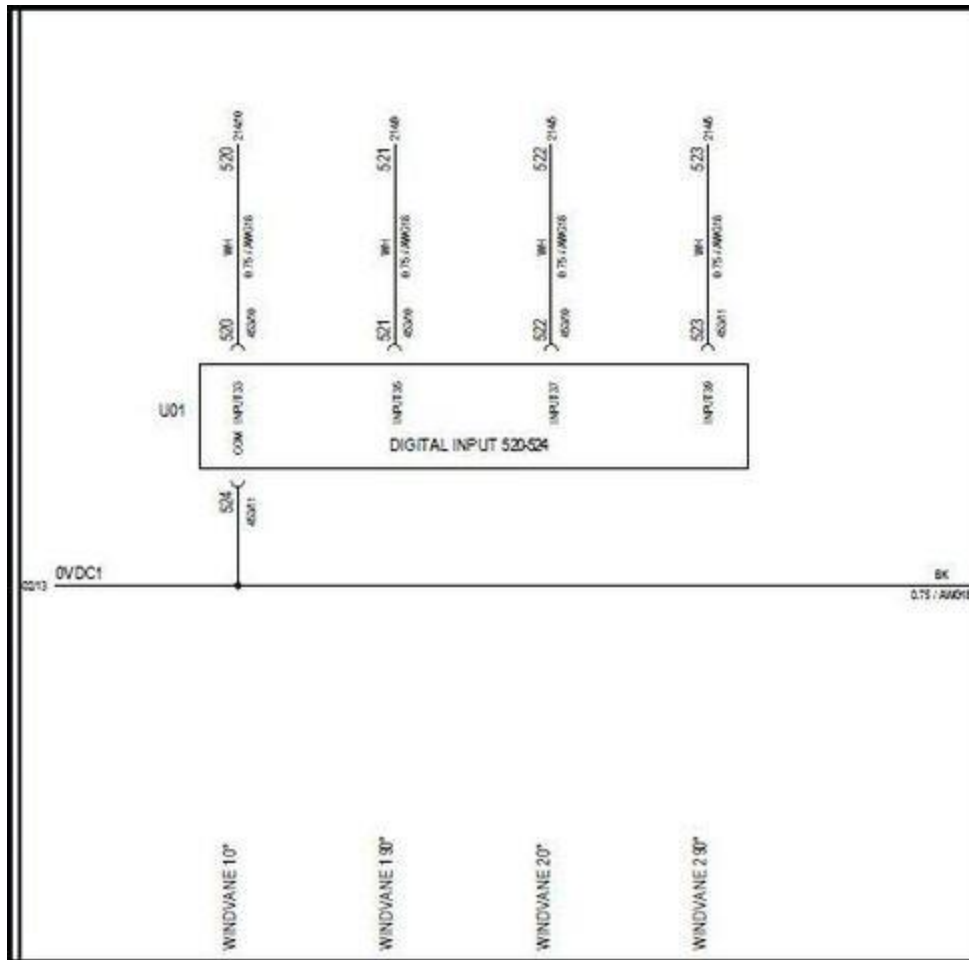
2] No

3] I don't know

- **Explanation**  
AT NACELLE

Check LED signals at TOI. If the signal is not toggling while wind vane rotates, Check the entire circuit from Wind vane to junction box connectors, varistor connection and TOI.





**Inspect the wind vane and replace as needed**

**Does this solve the problem?**

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

- **Explanation**

If the wind vane no longer spins resistance free, it needs to be serviced or replaced.

The cartridge bearing in the wind vane can be replaced with another of the same size, if your service site has access to replacement bearings (purchased outside Vestas supply chain).

After replacing or repairing the wind vane, align the wind vane according to the correct work instruction.

Relevant documentation	
Description	DMS No.
Alignment of Carlo Gavazzi wind vanes	<a href="#">1001337</a>
Alignment of NRG wind vanes	<a href="#">1001339</a>

Relevant spare parts	
Description	Item No.
WINDVANE NRG 2 ICEFREE, ARCTIC	<a href="#">60009349/60009349REN</a>
WVA HEATED DWS-D-DAC-13	<a href="#">60092777/60092777REN</a>
NRG INTERFACE 2VF+2VH	<a href="#">51705201</a>

Return defective sensors as 60009349DEF and 600992777DEF as these will be repaired and entered into the supply chain.

### Replace the defective varistor

#### Does this solve the problem?

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

- **Explanation**  
**AT NACELLE**

Check the LED Wind vane signal at TOI.

Check the input and output at varistor, If there is input and no output than change the varistor



#### Relevant spare parts

Description	Item No.
VARISTOR BOX X8 (Discontinue)	<a href="#">60015847</a>
VARISTOR BOX X8 (New)	<a href="#">51706201</a>
Mounted PCB VARISTOR BOX X8	<a href="#">60015268</a>

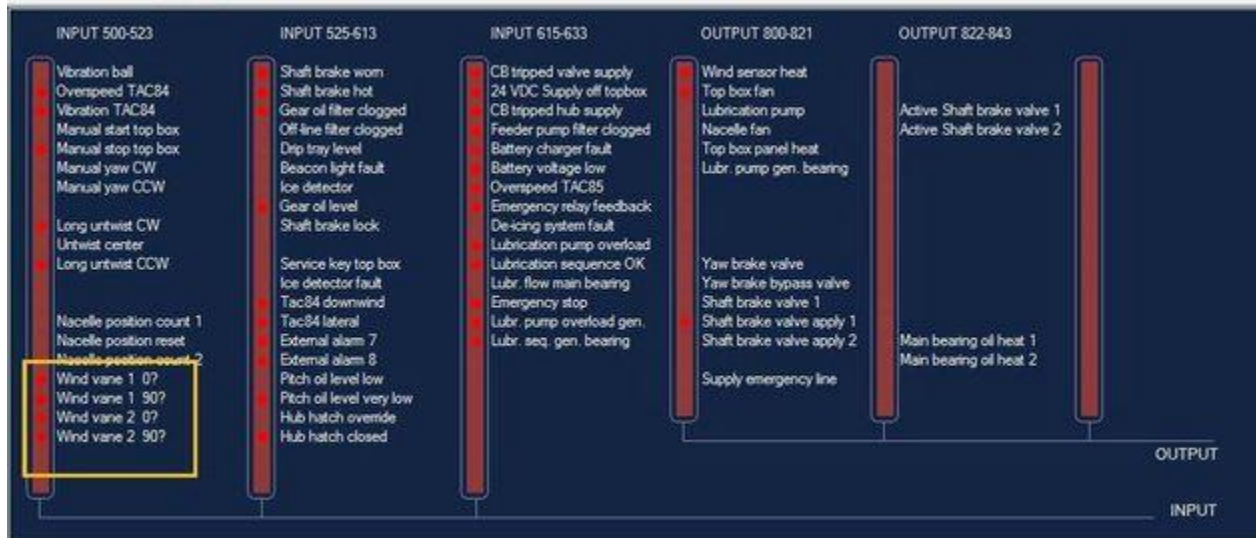
#### Replace the defective TOI-II

##### Does this solve the problem?

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

- **Explanation**  
**AT NACELLE**

Check the LED Wind vane signal at TOI. Check the input at TOI terminal if there is voltage and LED not glow TOI input channel might be faulty so it has to be replaced.



Relevant spare parts	
Description	Item No.
TOI-II INTERF EXT POC	<a href="#">51701601</a>