



Replace the Patch cable in the AN1

Does this solve the problem?

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

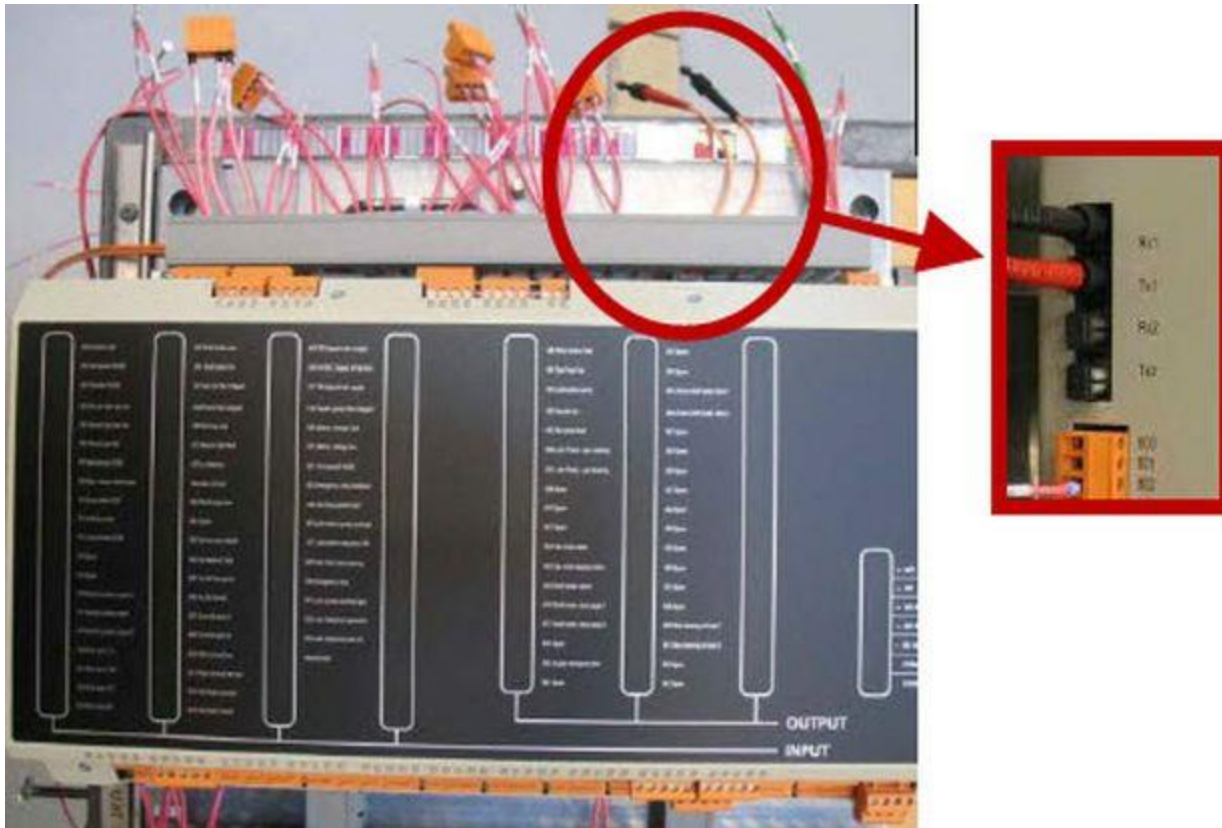
- [Explanation](#)

Check the communication diodes on the tower and nacelle TOIs. If the nacelle TOI transmits but the tower TOI doesn't receive or vice versa, check the fiber optic connectors for a secure fitting and check the fiber optic cables for damage.

If a single fiber is damaged, the W700 cable has two spare fibres that may be used in its place.



The patch cable connects the Nacelle TOI to the main tower cable. If you don't have a fiber optic cable tester, check this cable by swapping the positions on both ends to see if the communication fault moves with the cable.



The Vestas Tool VT715619 is a visual fault locator instrument and can assist you in diagnosing a bad fibre optic cable.

Cable patch duplex multimode 6 Part No: [60008830](#)

992 - TOI number 1 comm. Fault - NM72,NM82,V82 MK1-5



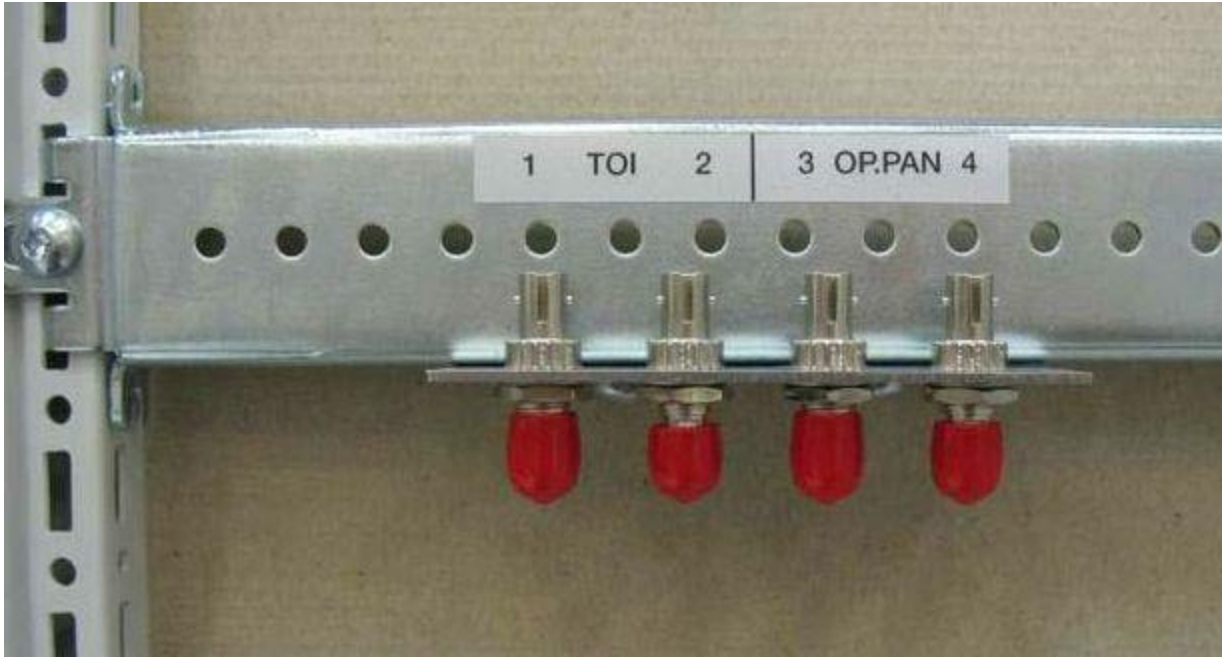
Check all the fiber optic couplers in the communication circuit

Does this solve the problem?

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

- [Explanation](#)

The fiber optic circuit in the turbine is made up of several different cables, and those cables are joined together by ST-couplers in the AN1 and AT2 cabinets.



Check the connections on both sides of the ST-couplers and at both TOIs.

***NOTE** The fiber optic cable tip must remain pristine so be careful when handling the cable and do not touch it with your bare finger.

Fiber Plug ST-Coupler AMP05-5 Part No. [60008794](#)

992 - TOI number 1 comm. Fault - NM72,NM82,V82 MK1-5



Check the power supply

Does this solve the problem?

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

- [Explanation](#)

The power supply should have 240 Volt AC input and 24 Volt DC output. Check the power supply in the AT2 and AN1 cabinets. Make sure that the power makes it to both of the TOIs.

PS ADC 5483R-3 10A-27,4 NM PIN Part No: [188453](#)

992 - TOI number 1 comm. Fault - NM72,NM82,V82 MK1-5



Check the W700 cable for damage

Does this solve the problem?

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

- [Explanation](#)

Check the communication diodes on the tower and nacelle TOIs. If the nacelle TOI transmits but the tower TOI doesn't receive or vice versa, check the fiber optic connectors for a secure fitting and check the fiber optic cables for damage.

The Vestas Tool VT715619 is a visual fault locator instrument and can assist you in diagnosing a bad fibre optic cable.

The W700 cable has two spare fibres that may be used in place of a damaged one.

| | |
|---------------------------------------|--------------------------|
| CABLE W700 FIB optic L=65m Part No: | 60020886 |
| CABLE W700 FIB optic L=70m Part No: | 60020887 |
| CABLE W700 FIB optic L=84m Part No: | 60020888 |
| Cable W700 fiber optic L=96m Part No: | 60022225 |
| CABLE W700 8 conduct 110m Part No: | 60021517 |



Check the Tower TOI

Does this solve the problem?

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

- [Explanation](#)

If the communication LED on the Tower TOI is off, or if the Nacelle TOI transmits but the Tower TOI does not register that it receives the signal, then the Tower TOI may be defective.

TOI-II INTERF NM1500 tower Part No: [51701501](#)

992 - TOI number 1 comm. Fault - NM72,NM82,V82 MK1-5



Check the Nacelle TOI

Does this solve the problem?

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

- [Explanation](#)

If the tower TOI has the communication LED blinking, check the nacelle TOI's communication. LED.
If the nacelle TOI does not register that it receives the signal or does not transmit, you need to verify that the communication breakdown is not in the fiber optic cable, then try replacing the Nacelle TOI.

TOI-II INTERF EXT POC Part No: [51701601](#)