

Remove obstruction and clean the FT wind sensor by using recommended cleaner

Does this solve the problem?

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

- **Explanation**
IN THE NACELLE:

Check for any debris in the wind sensors. If the plates are contaminated, clean the the sensor.



V22 Flat Front

Remove obstruction and clean the FT wind sensor by using recommended cleaner

Does this solve the problem?

- 1] Yes

2] No

3] I don't know

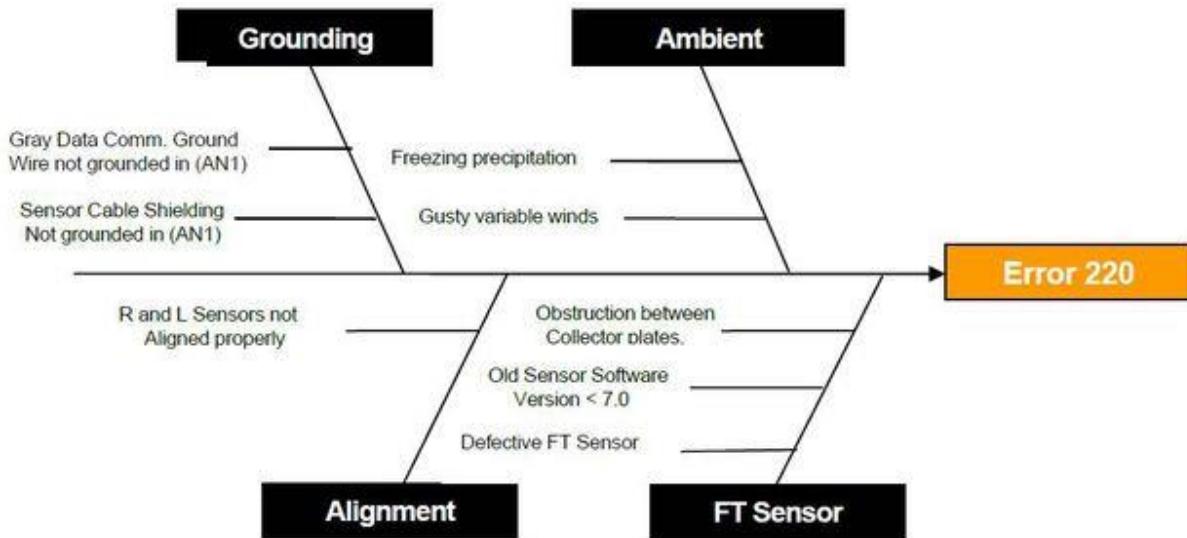
- **Explanation**
IN THE NACELLE:

Check for any debris in the wind sensors. If the plates are contaminated, clean the sensor.



V22 Flat Front

Cause and Effect Diagram:



Check the FT sensor and replace if defective.

Does this solve the problem?

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

• **Explanation**
IN THE NACELLE:

If the fault is intermittent and occurring often, set up the TAC data-logger to trigger on fault 220 and record wind direction and speed for both sensors. If the signal is consistently missing at the exact same time from both sensors then it is likely a problem with communication between the TAC controller and the sensor.

Check the software version & serial number of both sensors both are same.

Note: that signal is naturally intermittent from ultrasonic sensors.

Remove the connector plug on the wind sensors and check for signs of moisture/corrosion/damage.

Preset sensor right 2 ID (Press ENTER)

WS: 1 sec 10 min WD: 1sec 10 min
Left1: 5.1m/s 5.7m/s -18.0° -3.6°
Right2: 4.4m/s 5.7m/s 0.0° 1.3°

7 8 9

RESET

START

STOP

4 5 6

1 2 3

CLEAR

0

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PREV

▼

ENTER





Remember that while replacing a sensor, remove the other sensor connection physically from circuit and enable appropriate channel (left 1 or right 2) then calibrate.

Ref the below document for wind sensor calibration.

Item No. [106510](#) WIND SENSOR US FT702LT V22

Replace the defective cables and tighten the loose connections

Does this solve the problem?

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

- **Explanation**
IN THE NACELLE:

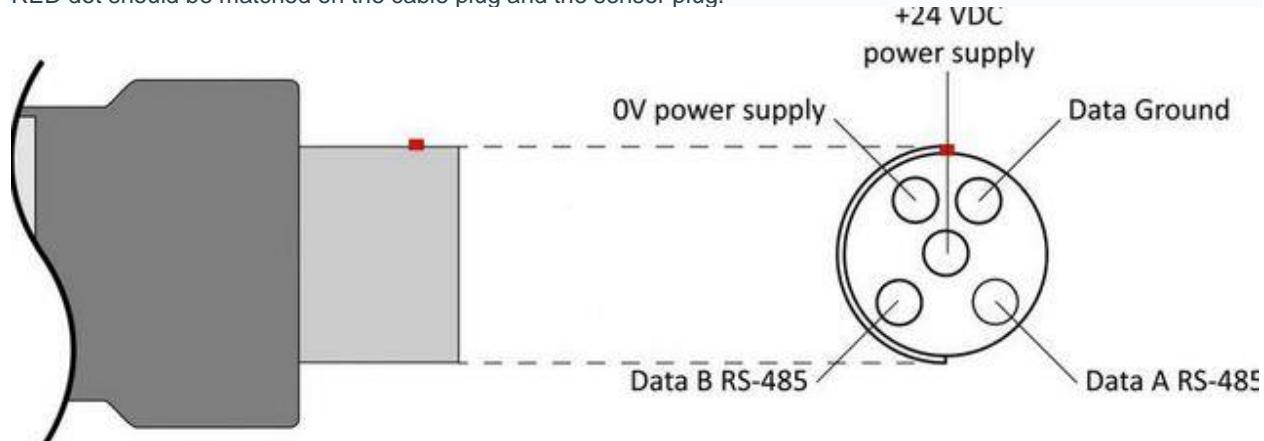
Check the sensor terminal pins for any corrosion, moisture or damage.



Check the connection in between sensor cable and sensors.

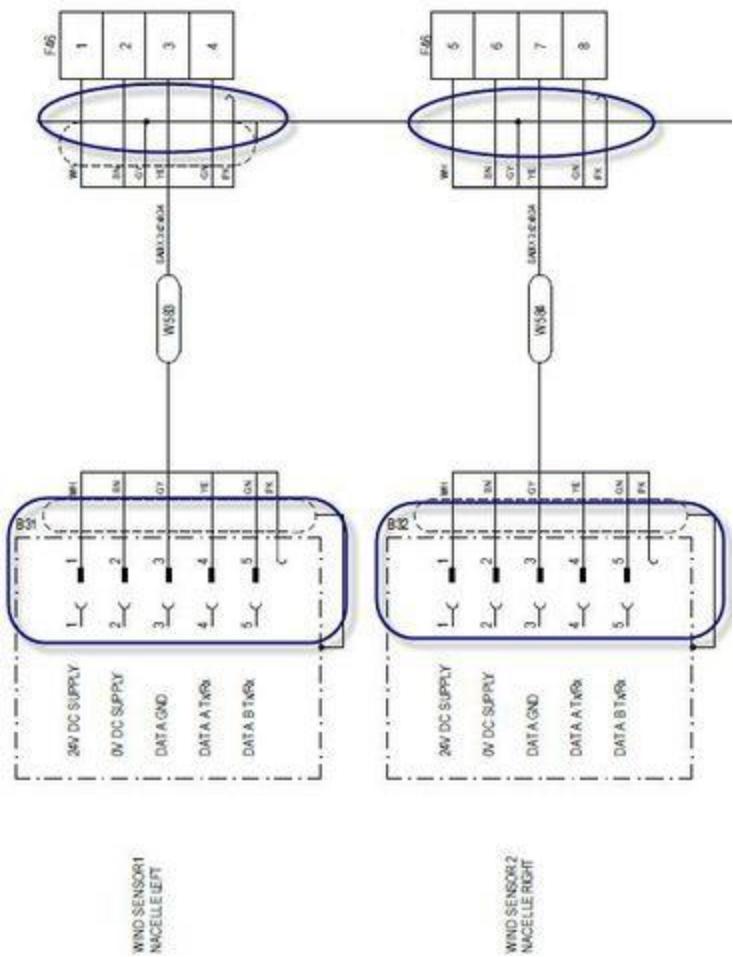
Ensure the cable is connected properly and is not loose. The connector can easily be mounted incorrectly. If the cable is mounted tight and it pulls in the sensor connector, it must be rerouted so that it is not pulling the plug.

RED dot should be matched on the cable plug and the sensor plug.



Ensure proper installation of the protective boot.

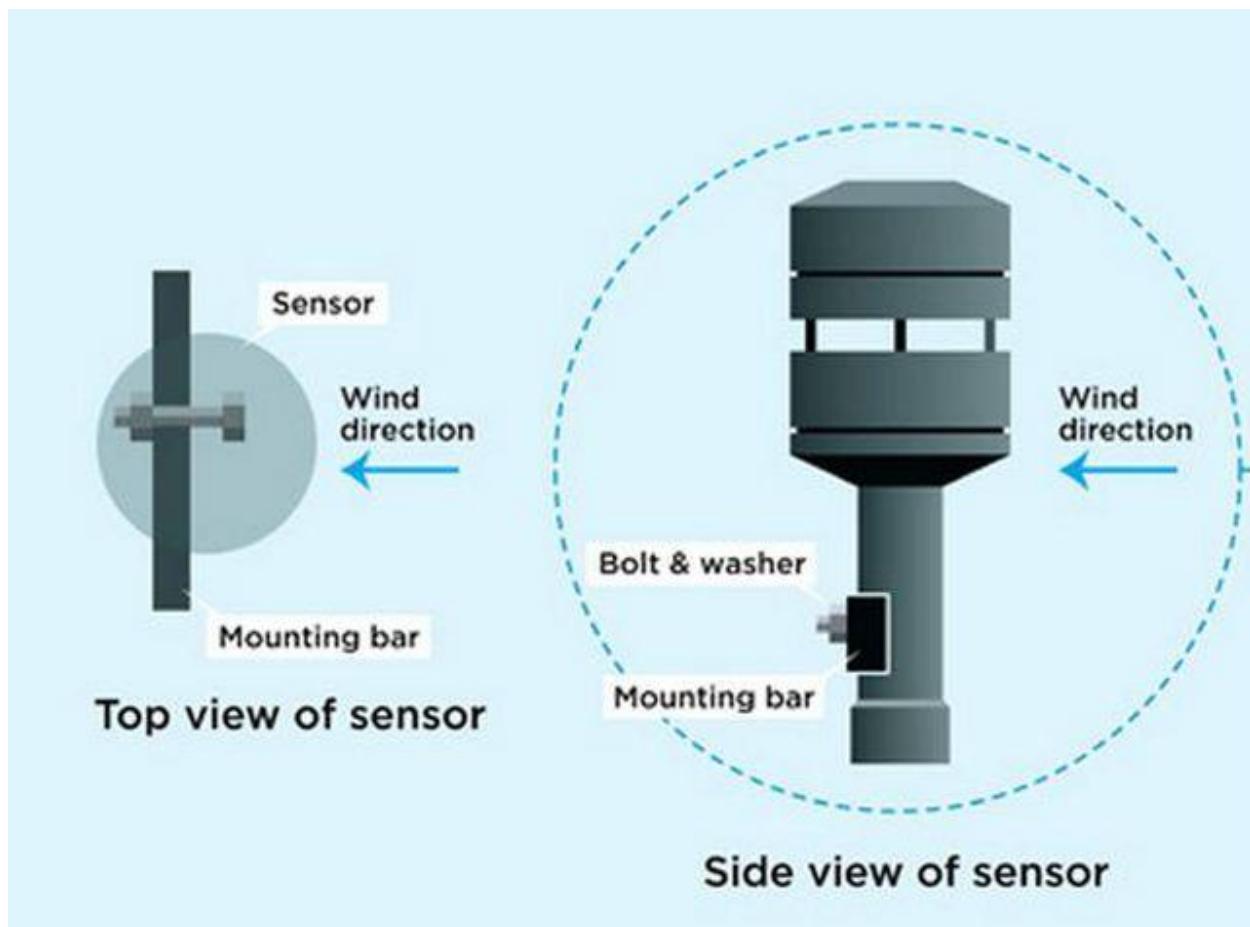




Check the varistor F46 ultrasonic sensor connections as per the diagram and check for any loose wire connections.

Refer to drawing No: [934705](#) page 049 "External Connections Wind Sensors".

Check that the wind sensor is fixed properly and ensure there is no loosening of the fixing bolts.



Check for cable failure by measuring the continuity. Replace any faulty cables with new.

W583 and W584.

Item No. [60106332](#) CABLE for FT702/LT 9m



Replace the defective varistor or repeater

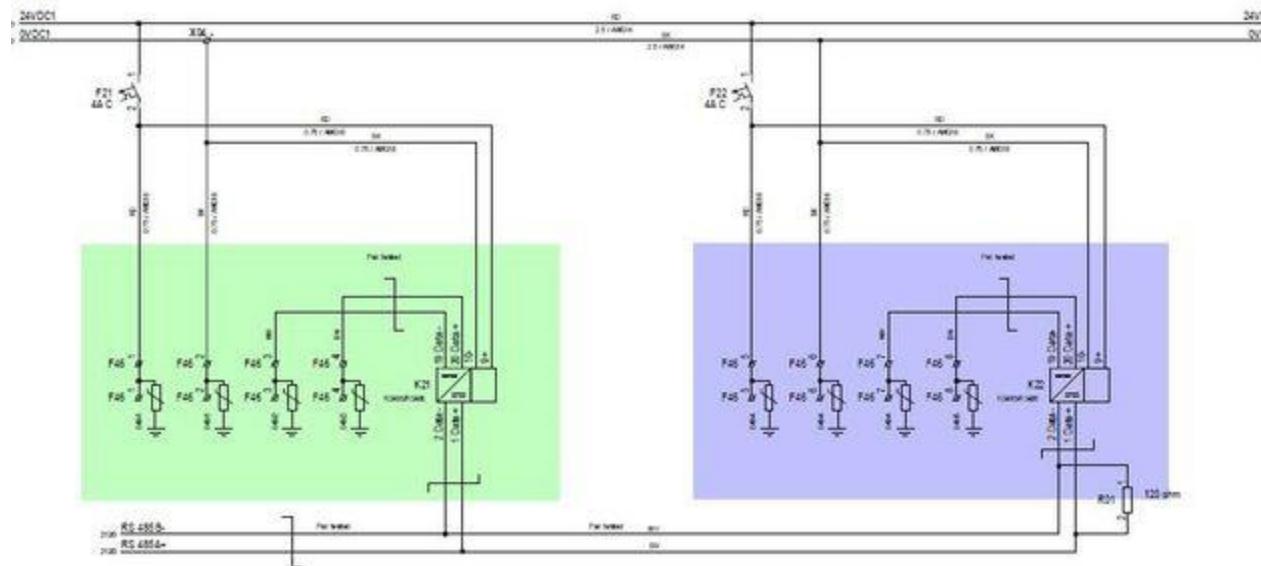
Does this solve the problem?

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

- **Explanation**
IN THE +AN1 PANEL:

Check repeaters by replacing one with a new one. Replace any defective repeaters with new.

Refer to drawing No: [934705](#) page 214 "Wind Sensor Connections".



24VCC WIND SENSOR1
MACELLERUTT

DATA B TMR
WINDSENSOR 1 MACELLERUTT
DATA A TMR
WINDSENSOR 1 MACELLERUTT

DATA B TMR
WINDSENSOR 2 MACELLERUTT
DATA A TMR
WINDSENSOR 2 MACELLERUTT



Item No. [60004933](#) RS485/RS485 REPEATER I-75

Check varistor box connections and function with a multimeter. Replace the varistor box if it is defective.



Item No. [51706201](#) VARISTOR BOX X8

Check wind sensor alignment correct if any deviations.

Does this solve the problem?

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

• **Explanation
IN THE NACELLE:**

Check the wind sensor alignment as per procedures. Correct the wind sensor alignment using the laser boy kit.

Refer [0000-9925](#) Commissioning Instruction, V82-1.65 MW



Using this 3 fixing points we can adjust the sensor fixing stands.

After adjustment of required level again perform the sensor alignment and check to ensure there is no deviation.

