

**Check the tower damper and top-up to required level**

**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation  
IN THE TOWER:**

TURBINES WITH MULTIPLE FLUID DAMPERS:

The tower dampers consist of a number of containers in the tower top arranged in two columns just below the top platform. The containers are filled with a predefined amount of liquid in each container,

NOTE: Number of containers in each tower varies from tower to tower.



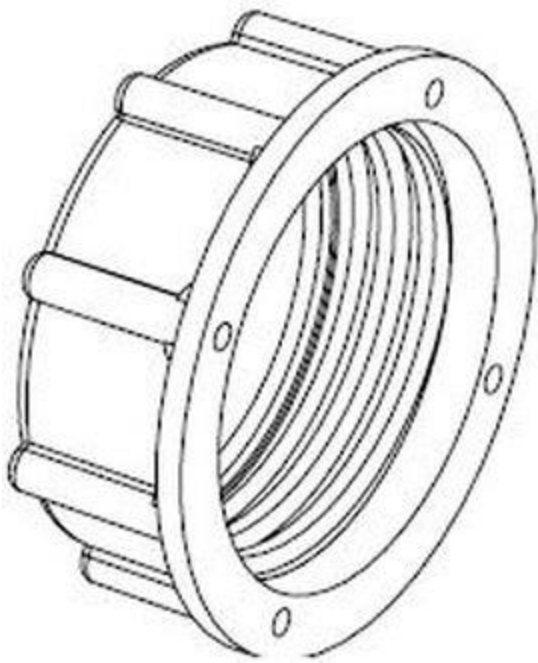
Check the containers for any sign of leakage in the tank and the closing cap.



If any caps are found to be leaking or damaged - replace both the cap and seal.

Ensure the seal is properly seated.

**Part number for Cap and Seal:**



60071474 - THREADED CAP

60076567 - PACKING WASHER Ø41X2 PDM

Tower Damper Fluid Change **DMS: [1001814](#)**

Also refer to Service Instruction for Tower Sections **DMS: [1000685](#)**

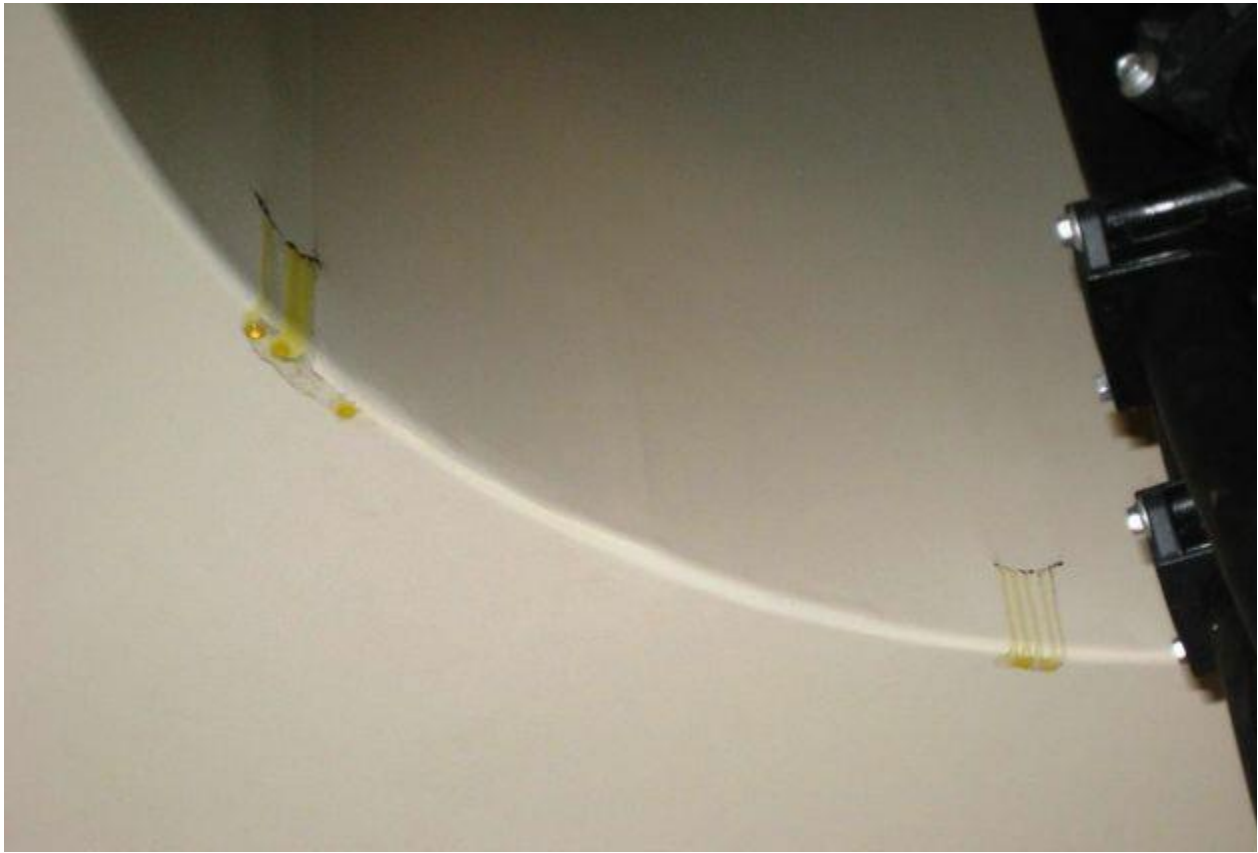
#### TURBINES WITH OIL FILLED PENDULUM DAMPERS:

Inspect the damper wall internal to the tower for cracks or leaks. If the pendulum is making contact with the tank wall, install larger fenders- **“80-mm Fender**

**Part # 78600140”** and contact the local engineering department for instructions to patch the tank. Top off the oil in the tank per the I&S Data.

Reference CIM [1838](#) (RCA Phase) for instructions on fender instillation (also reference the Commissioning Manual) and recommendations for tank repair solution.

Damage to damper tanks:



**Replace the defective TAC84 module**

**Does this solve the problem?**

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

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

Vibration sensor and speed sensor signals are connected to the TAC84 module.

Check the TAC84 module parameters as per instruction:

Settings for TAC 84 Vibration guard - Tower vibration

DMS: [17000077](#)

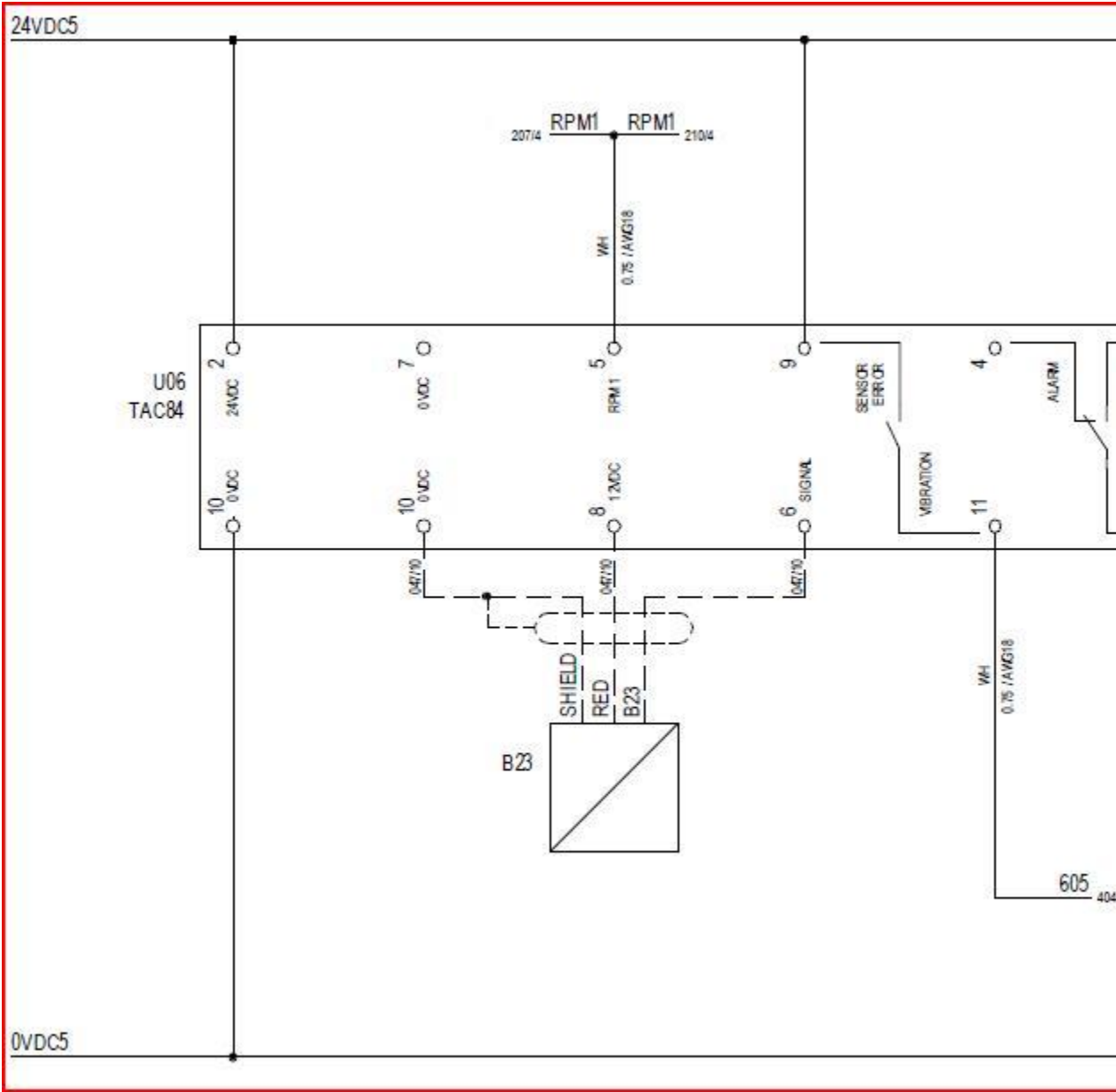
Also refer to the TAC84 User manual:

DMS: [5002041](#)



Check the TAC84 – Down wind module and related wiring for any loose connections.

Test the TAC84 module as per Commissioning Instruction.







**Part Number for TAC84 module:**

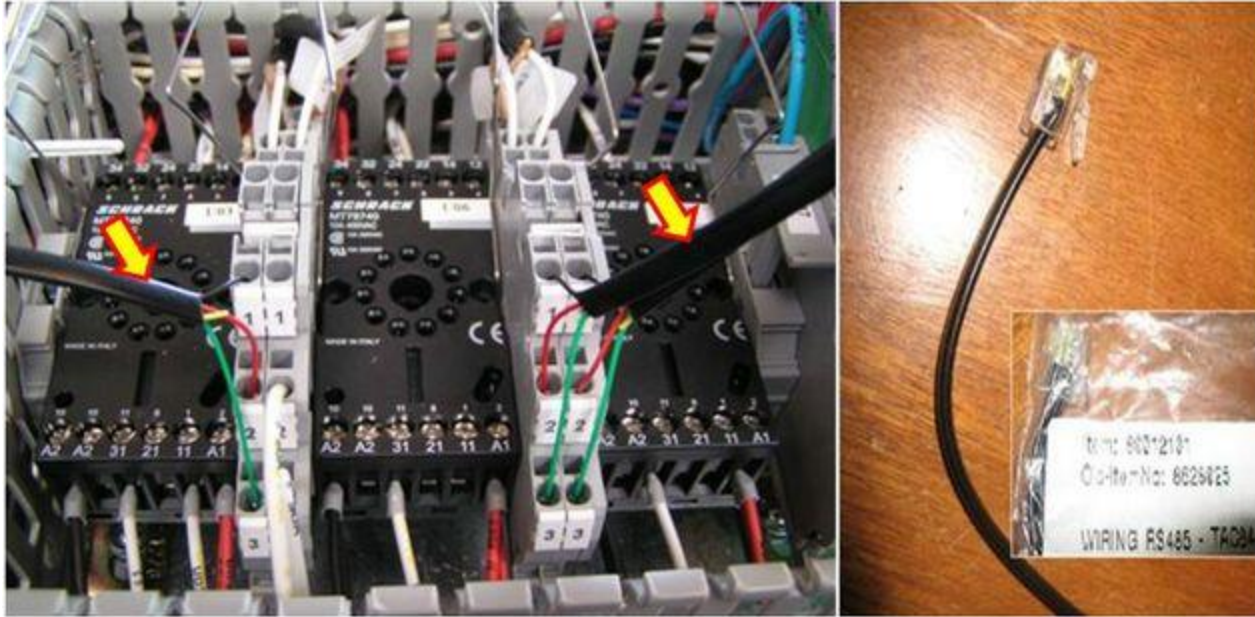
51700101 - TAC 84C VIB GUARD RS485 NMCS

Check the RS485 cable for loose cable or damage.

If necessary replace the cable.

60012101 - WIRING RS485 - TAC84/85





### Replace the defective accelerometer

#### Does this solve the problem?

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

- **Explanation**  
**IN THE NACELLE:**

Check for loose cable connections.

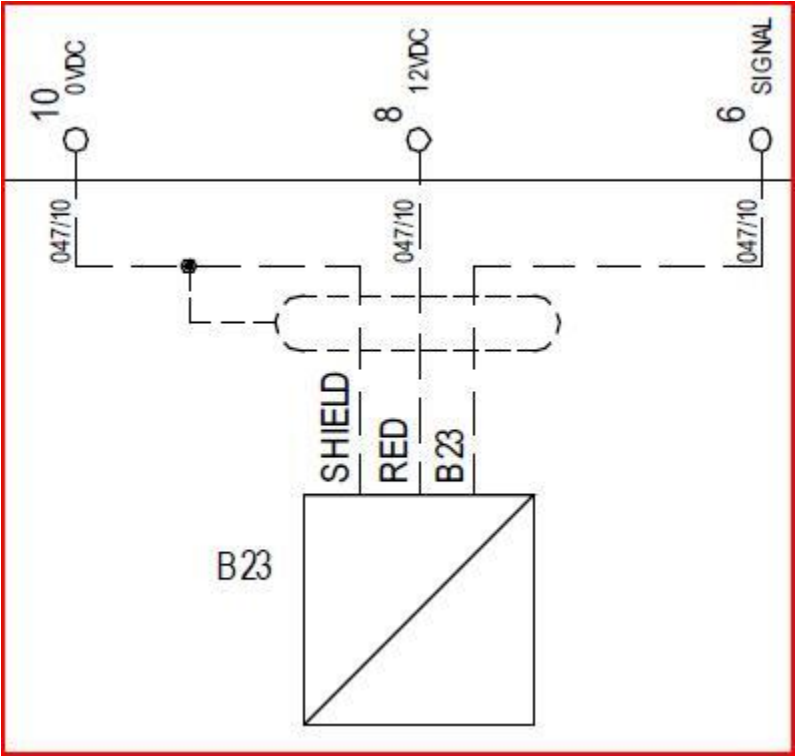
Make sure that the calibration number is correct in the TAC module.

Check that the vibration is measured properly through TAC84 module.

Simulate vibration by yawing or tap a screwdriver on the sensor and check that the vibration value is changing on the module. If the value does not change on the module, or is unreal, the accelerometer is likely defective.

#### Part Number for Vibration sensor:

51705401      VS05E ACCELEROMETER 12M







**Replace the defective repeater module**

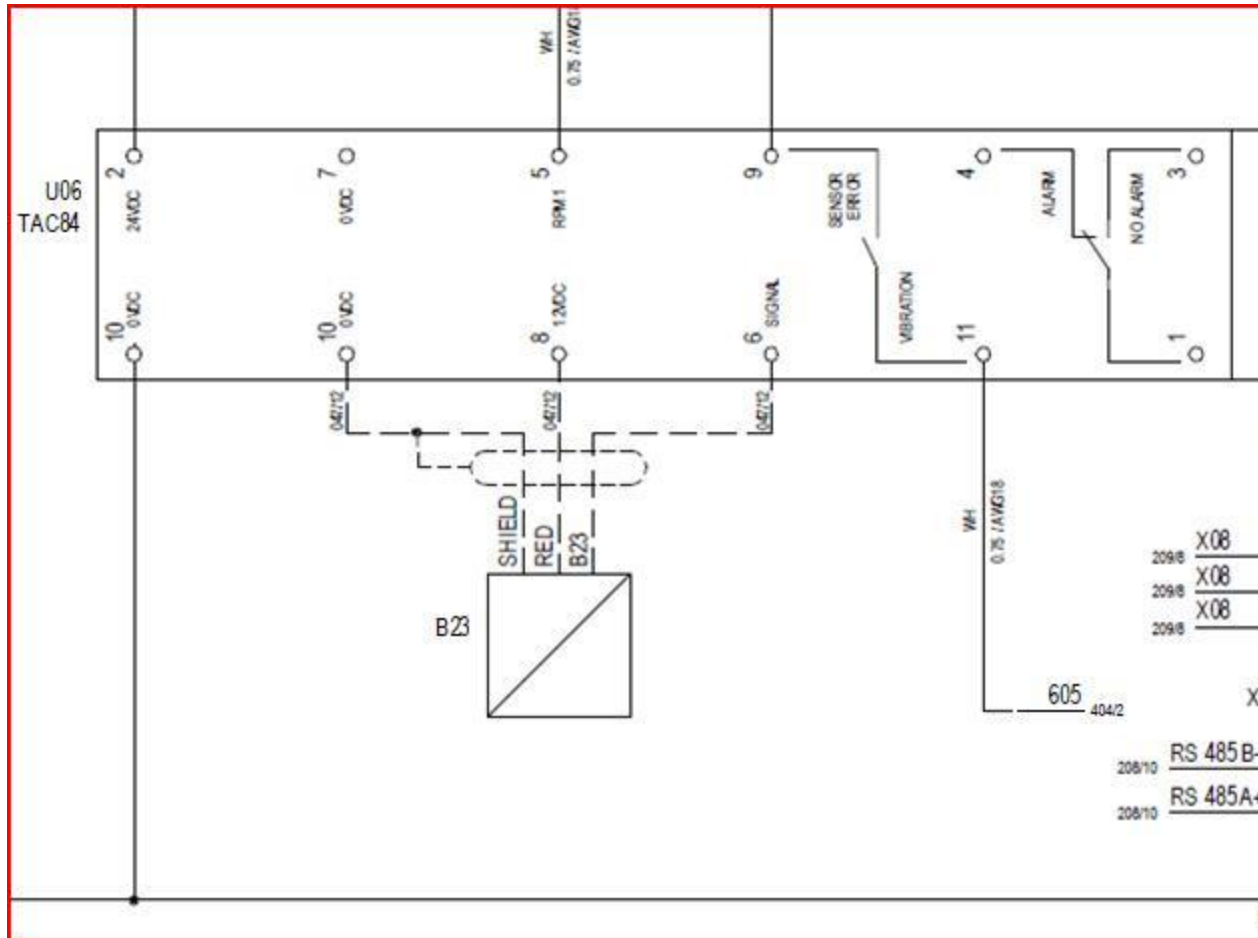
**Does this solve the problem?**

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

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

Check the connections at the ICP RS485 repeaters (K21 & K22) in the AN1. Check for loose wires and plugs or corrosion at the repeater.





If there is no communication on one sensor, switch the ICP RS485 repeaters to see if the communication returns. If communication returns when the repeaters are switched, replace the faulty repeater.

**Part number:**

60004933 - RS485/RS485 REPEATER I-7510 ICP

**Check and replace the defective components**

**Does this solve the problem?**

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

- **Explanation**  
**IN THE NACELLE:**



Yaw magnetic brake failure is one of cause of lateral vibrations.

Check all of the yaw motors for any bearing failure or brake failure.

If the Magnetic coil is found to be defective replace the magnetic coil.

**Part number for magnetic coil:**

60120682 - AC BRAKE TYPE FA



Check the yaw brake using Yaw System Service Instruction.

**DMS:** [1000686](#)



Check for abnormal noise from the yaw system.

Trouble Shooting Noise from Yaw System **DMS: [0014-8725](#)**

If yaw callipers are found to be failing replace with new.

Replacing Brake Pads on FCHR90 Brake Callipers **DMS: [0007-8756](#)**

If any oil leaks are discovered in the yaw system clean as per SWI: Cleaning the Yaw System Area **DMS: [1001618](#)**

