

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:

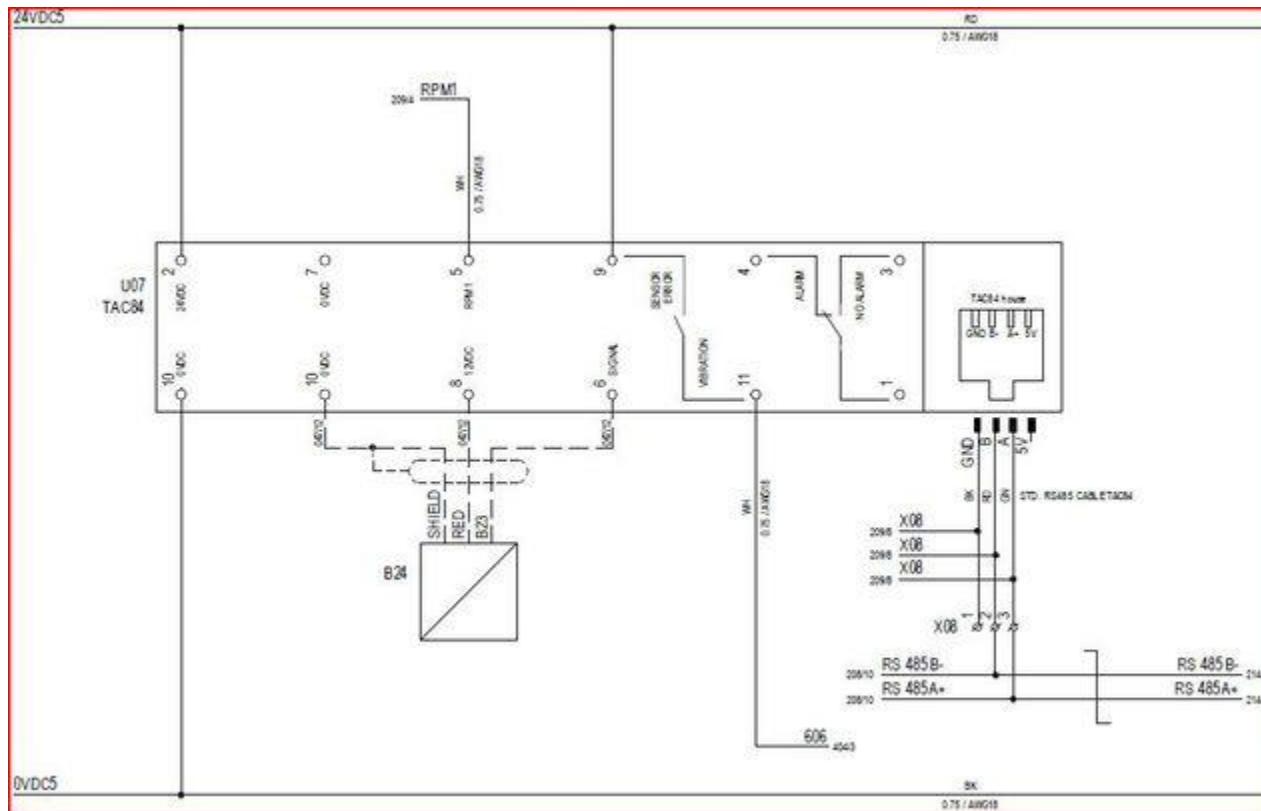
Relevant documentation	
Description	DMS No.
Settings for TAC 84 Tower vib. guard	17000077
Manual - TAC 84C Vibration Guard	5002041



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

Test the TAC84 module as per Commissioning Instruction.

Relevant documentation		
Description	DMS No.	Section
Commissioning instruction	<u>1001016</u>	1.16.4



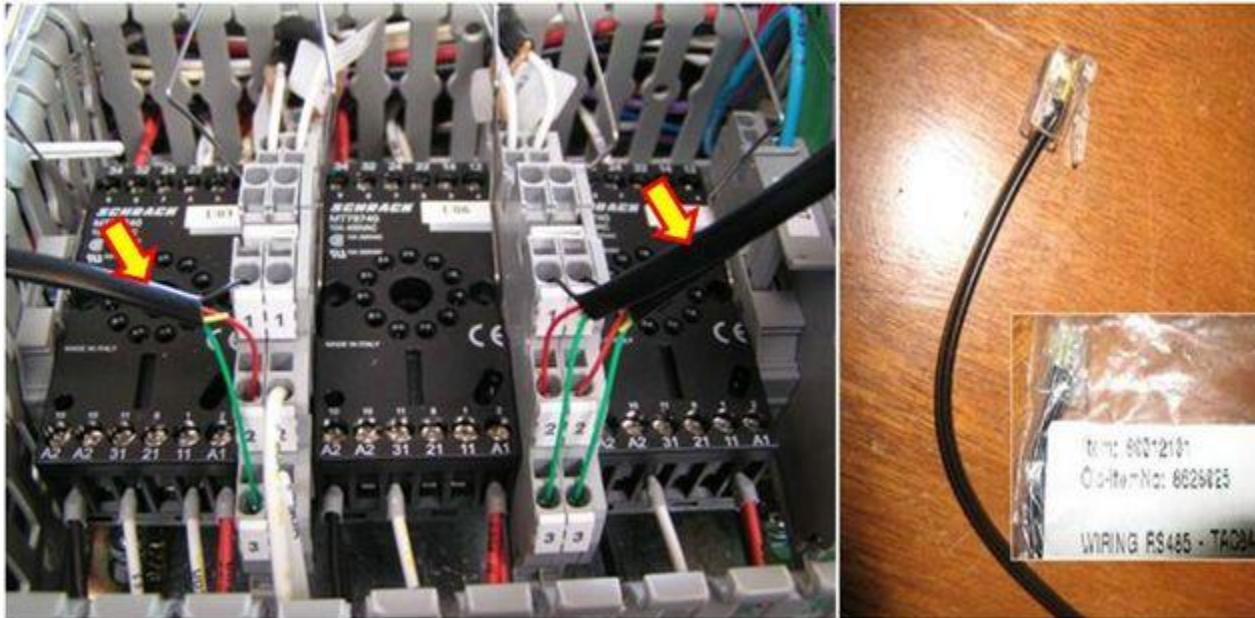


Relevant spare parts	
Description	Item No.
TAC 84C VIB GUARD RS485 NMCS	51700101

Check the RS485 cable for loose cable or damage.

If necessary replace the cable.

Relevant spare parts	
Description	Item No.
WIRING RS485 - TAC84/85	60012101



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.



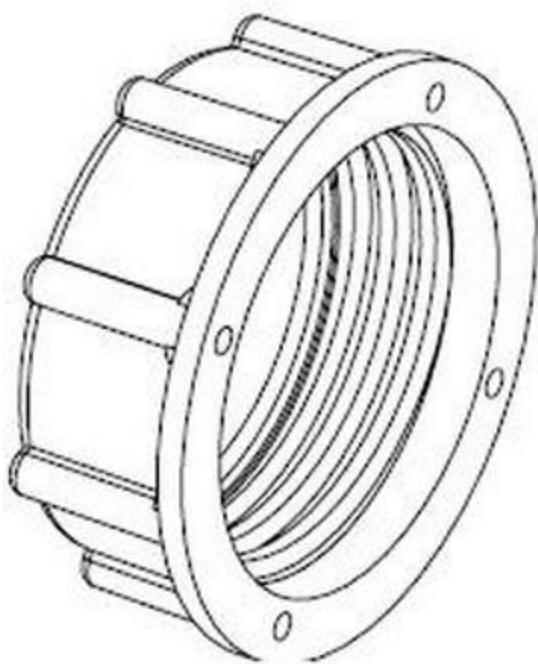
Check the containers for any sign of leakage in the tank and the closing cap.



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:



Relevant spare parts

Description	Item No.
THREADED CAP	60071474
PACKING WASHER Ø41X2 PDM	60076567

Relevant documentation

Description	DMS No.
Tower Damper Fluid Change V82	1001814

Service instruction for tower	<u>1000685</u>
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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**

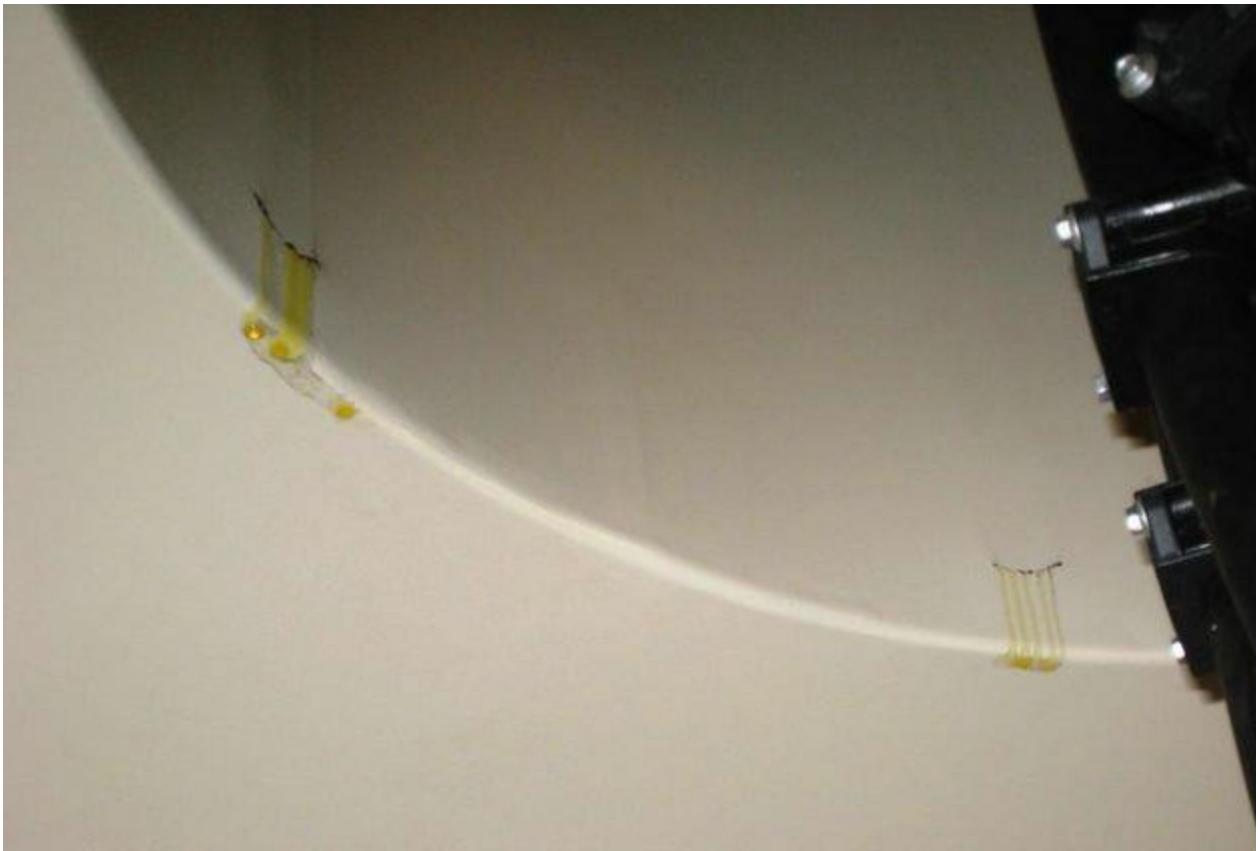
Part # 78600140” and contact the local engineering department for instructions to patch the tank. Top off the oil in the tank per the I&S Data.

Relevant spare parts	
Description	Item No.
80-mm Fender	<u>78600140</u>

Refer CIM1838 (RCA Phase) for instructions on fender installation (also reference the Commissioning Manual) and recommendations for tank repair solution.

Relevant CIM case		
CIM case	Task list	CS
<u>1838</u>		<u>0031-1793</u>

Damage to damper tanks:



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.

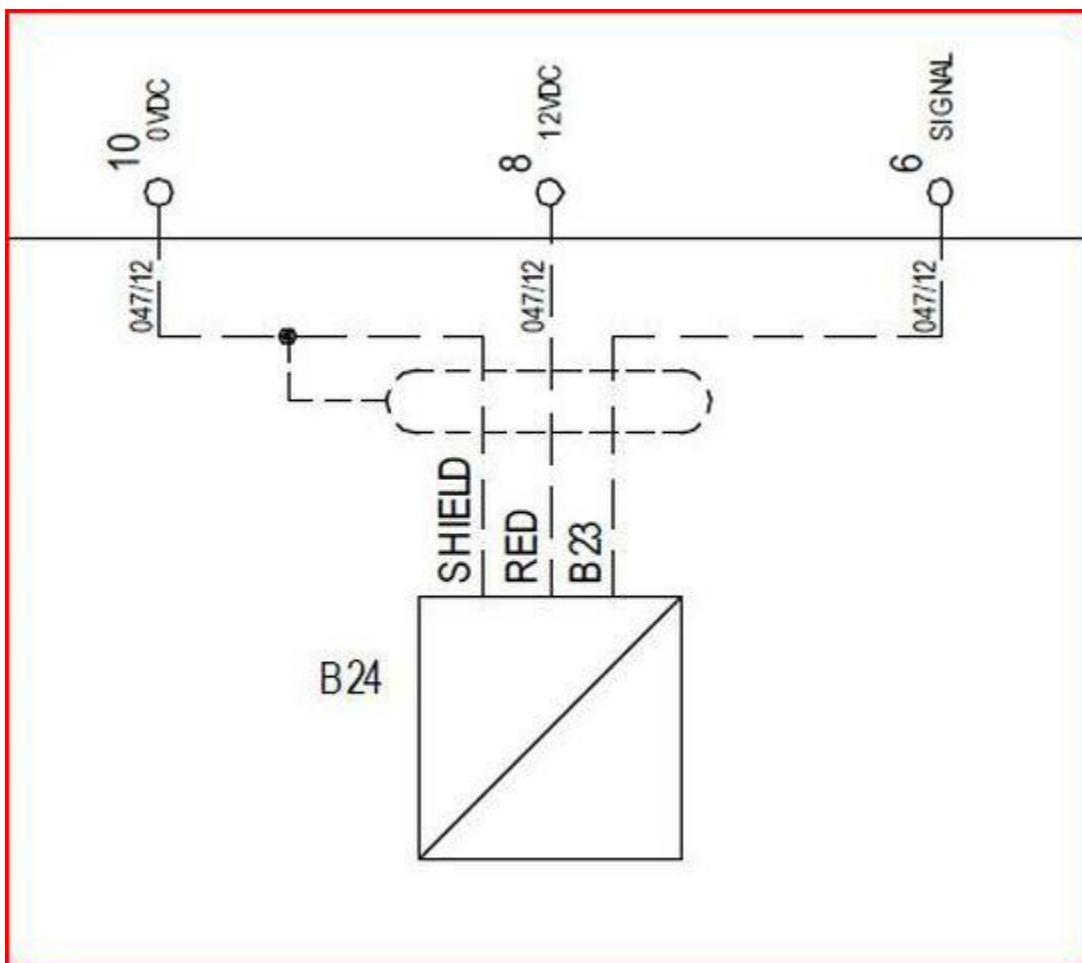
Make sure that the calibration number is correct in the TAC module.

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.

Relevant spare parts	
Description	Item No.
VS05E ACCELEROMETER 12M	51705401







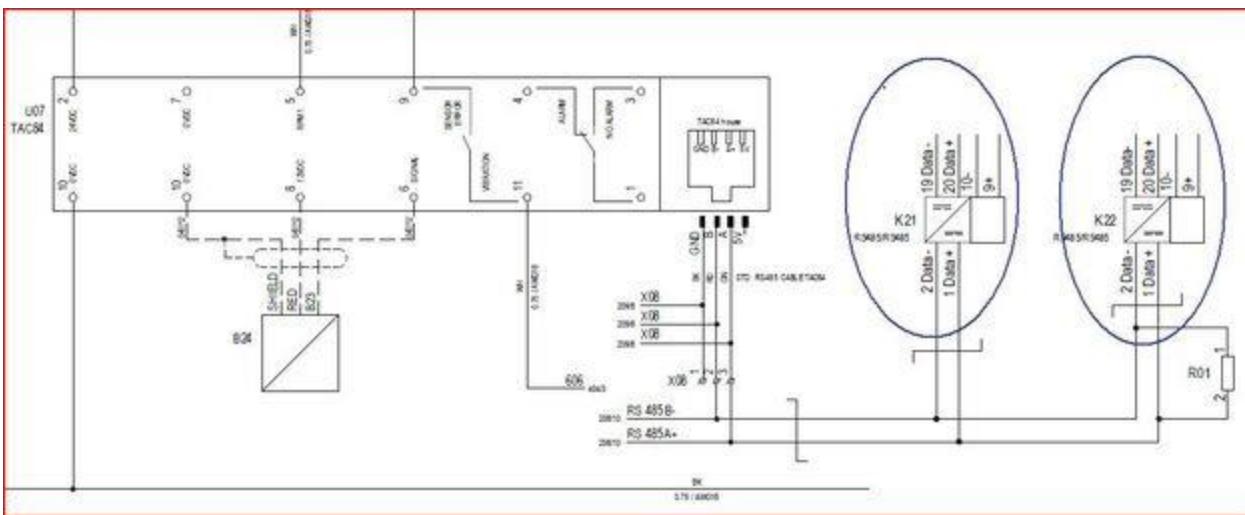
Replace the defective repeater module

Does this solve the problem?

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

- **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.

Relevant spare parts	
Description	Item No.
RS485/RS485 REPEATER I-7510 ICP	60004933

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.

Relevant spare parts	
Description	Item No.
AC BRAKE TYPE FA	60120682



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**



Relevant documentation

Description	DMS No.
Yaw System Service Instruction	<u>1000686</u>
Trouble Shooting Noise from Yaw System	<u>0014-8725</u>

Replacing Brake Pads on FCHR90 Brake Callipers	0007-8756
Cleaning the Yaw System Area	1001618

Check the input signal at 606, TOI-II unit and replace the TOI-II if you receive the signal at 606 and error not reset

Does this solve the problem?

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

- **Explanation**

Check the input signal to TOI-II (606) and replace the TOI, if error not clear with signal feedback available in 606



Relevant spare parts	
Description	Item No.
TOI-II INTERF EXT POC	<u>51701601</u>