

Verify the pressure transmitter is functioning

Does this solve the problem?

1] Yes

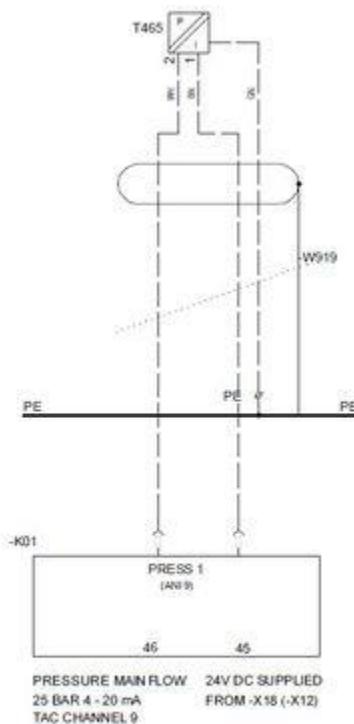
2] No

3] I don't know

- **Explanation**

Verify the pressure reading displayed on the TAC by measuring the pressure at the distribution block test port MF with a manometer. If the TAC reading doesn't match the manometer reading, then the pressure transducer may be defective.

Inspect the W919 cable for damage before replacing the sensor.



Relevant documentation

Description	DMS No.
V82 Parker Hydraulic pitch control system	0001-3199

Relevant spare parts		
Description	Item No.	
PRESSURE TRANSDUCER:MBS3000-24	60096501	(Rexroth)
PRESSURE TRANSDUCER 0-25 BAR 4	60111629	(Parker)
Cable W919	60021523	-

Verify pressure readings with the pitch system de-energized

Does this solve the problem?

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

- **Explanation**

Check the inlet pressure over the TAC with the system de-energized. If the pressure doesn't read between 0 and 1.1 bar, the hub computer may be malfunctioning.

Relevant spare parts		
Description	Item No.	
HUB COMPUTER CABINET EVOII	51701801	

Check the return line for blockage

Does this solve the problem?

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

- **Explanation**

Check the return line flex hose for kinks and make sure that the outside part of the rotating union hasn't twisted around.

Relevant documentation	
Description	DMS No.
Rotating Union Replacement WKI	0021-9518
V82 Parker Hydraulic pitch control system	0001-3199

Check the distribution manifold for blockage

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Blockage in the distribution manifold may be limiting the oil from returning to tank. Check the operation of the valves

Test the 440 valve by entering flush mode. Ensure the 440 turns on and you measure 14 bar at MF and 2 bar at MT.

If the inlet pressure spikes when the main pump kicks on 425, the check valve may be stuck open.

It is possibly, but very unlikely, that something is blocking the return line. Remove the hose at coupler T and inspect for blockage.

Relevant documentation	
Description	DMS No.
Distribution manifold replacement WKI	0021-3758
V82 Parker Hydraulic pitch control system	0001-3199

Relevant spare parts	
Description	Item no.
455 check valve	60096500
425 & 410 check valve	60096479

Part Number for Solenoid Valve

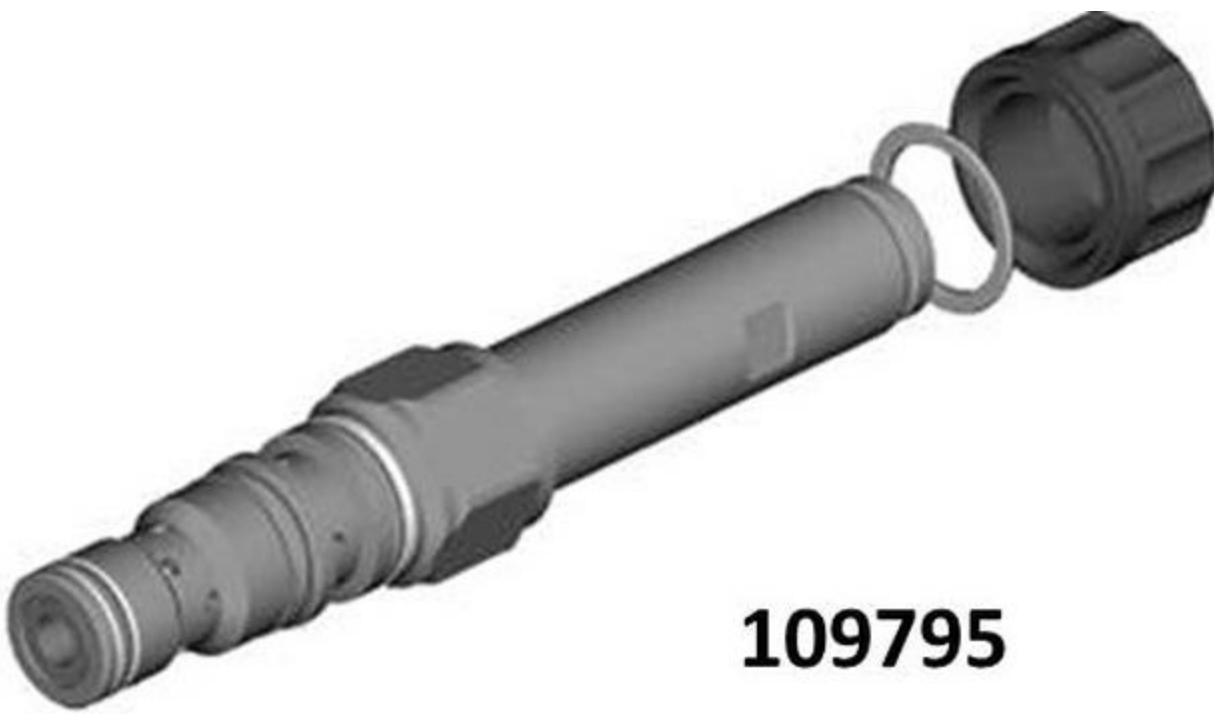
The part No.60096475 is phased out and henceforth replaced by 109795 & 60106201.

(Rexroth) Valve/Solenoid- 215

Relevant spare parts		
Description	Item No.	Status
SOL VAL KSDEU1CA/HCG24N0K4M	60096475	Phased out
ELECTRIC SEAT VALVE	109795	Available
COIL GZ37-4 24VDC 19W	60106201	Available



60106201



109795

Check the pitch manifold

Does this solve the problem?

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

- **Explanation**

If the system starts up normal but then faults while pitching, the problem could be in one of the pitch manifolds.

Isolate the problem by pitching the blades one at a time until you can recreate the fault.

Possible causes on the pitch manifold are the proportional valve and the 250bar overpressure valve in position 220.

Relevant documentation	
Description	DMS No.
V82 Parker Hydraulic pitch control system	0001-3199

Relevant spare parts	
Description	Item No.
PROP. VALVE D3FHE01C	<u>60112621</u>