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SERVICE BULLETIN no. 0082 ISSUE 2

Date 08/01/96

SUBJECT:

Pegasus Quantum Rear Undercarriage.

MODELS AFFECTED:

All Pegasus Quantum trikes manufactured before 08/12/95

CLASSIFICATION:

Civil Aviation Authority class this bulletin as
MANDATORY

PURPOSE:

The rear under carriage legs are to be inspected and modified after a rear under carriage leg came loose at the main subframe during a flight with a production built Quantum trike. This caused a side strut to fall from the aircraft subframe while the other end remained attached to the rear wishbone.

ACTION:

Before the next flight, the following operation must be completed:

1. Secure trike from toppling, then lift rear of aircraft off ground.
2. Remove socket cap screws (49) from side strut while supporting wheel.
3. Lower the wheel to the ground while supporting the side strut (9).
4. Unscrew suspension guide tube (8) using a tommy bar through hole A, while holding locking nut at rod end bearing.
5. Remove assembly.
6. Unscrew nut (51) from rod end bearing (34), clean and degrease both components with acetone or similar (do not use kerosene based products).
7. When nut and rod end bearing are dry, apply 221 Loctite (or similar) thread lock to nut.
8. Screw nut onto rod end bearing leaving 1mm of thread below the head of the bearing. Then apply thread lock to the full length of thread on rod end bearing.
9. Reassemble suspension assembly and tighten suspension guide tube to 40 Nm (30 lbf ft) while supporting the nut. The suspension guide tube can be tightened by placing a 17mm length rod by 7mm diameter through the hole A and then placing a 17mm six pointed socket over the end of the suspension guide tube, with accompanying attachments. See Fig A.
10. Lift undercarriage and reattach side strut with socket cap screws, apply 221 Loctite thread lock (or similar) to screws before attachment.

If any movement is visible at any time then strip and follow the above instructions.

Assembly and fittings: Any person unable to carry out the above work refer to your dealer. If your dealer is unable to carry out the above work get him/her to make the necessary arrangements to have the work carried out by Cyclone Airsports Ltd. This work must be entered into the aircraft technical log when completed.

Date 08/01/96

SUBJECT:

KEY:

- 8,11,12,13,37 - Suspension Assembly
- 9 - Side Strut
- 34 -Rod End Bearing
- 49 - Socket Cap Screws X2
- 51 - Locking Nut

FIG. A:

SUSPENSION GUIDE TUBE.

