
SERVICE INFORMATION LETTER NO. SIL20C1-017

NOTE: Service information letters (SIL) are used only:

1. To distribute information from Diamond Aircraft Industries Inc. to our customers.
2. To distribute applicable information/documents from our suppliers to our customers with additional information.

NOTE: Typically there is no revision service for SILs. Each new information or change will be sent along with a new SIL.

1. TECHNICAL DETAILS

1.1 Aircraft Affected

Model: DA 20-C1
S/N All

1.2 Subject

Nose Landing Gear (NLG) Fork and Stud – Inspection and Maintenance Practices.

1.3 Reason

Multiple occurrences of NLG fork and wheel assembly detachments have been reported on DA20-C1 aircraft, caused by stud failures at the threaded end. The suspected root cause is corrosion fatigue, accelerated by repeated hard landings and exposure to contaminants. Stud failure can result in NLG strut collapse, leading to propeller strikes, fuselage damage, and potential loss of directional control during landing.

1.4 Information

Diamond Aircraft Industries reminds operators to:

- Follow the inspection intervals as described in the Aircraft Maintenance Manual (AMM Doc. No. DA201-C1), latest approved revision, Chapter 05-20-00, Section 4.B, Tasks #20–22.
- Use only standard parts as specified in the Illustrated Parts Catalogue (IPC), Chapter 32-20.
- Verify proper orientation of Belleville (disc) springs during reassembly as per AMM Chapter 32-20-00, Figure 205.
- Ensure cotter pins are correctly installed and not missing.
- Apply corrosion inhibitor during NLG Fork reassembly as per AMM Chapter 32-20-00, Section 3.C.

NOTE: Extra attention is recommended for aircraft used in flight training operations, as frequent landings and lower pilot experience levels increase the risk of hard landings and accelerated wear.

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2. OTHER DETAILS

To obtain satisfactory results, procedures specified in this service information letter must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service information letter. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service information letter if it is not incorporated. If you no longer own the aircraft to which this service information letter applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

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