

Subject : Starter ring gear for Solo 2625 01 and 2625 02, zinc coated and painted version

Effectivity : DG-800B, DG-808C and DG-500MB

Accomplishment : 1. Waived
2. At each daily inspection
3. If cracks have been detected exchange prior to next use of engine

Reason : One of the zinc coated ring gears cracked and the escaping parts caused severe damage to the starter motor, the engine mount and the drive belt.
As in the meantime reports of cracking on the painted starter ring gears have been received, the manufacturers (Solo) opinion that the zinc plating process may cause Hydrogen embrittlement which encourage cracking must be revised. Therefore all starter ring gears must be checked.

Instructions : 1. Waived.
2. During each pre-flight inspection extend the powerplant just so far, that you can turn the propeller. Clean the lightening holes in the starter ring gear with a piece of cloth soaked with Acetone or cleaning benzine. Check for cracks see photo on page 2.
Caution: Use a powerful torch for the check, otherwise you may not see the cracks.
3. If cracks are visible the starter ring gear must be exchanged prior to next use of the engine. To accomplish this the starter ring gear assembled with adapter and lower drive belt pulley must be removed from the engine according to MM DG-800B and DG-500MB section 4.16.2 item 3, DG-808C section 4.17.2 item 3 and ship the assembly to DG Flugzeugbau for modification.

Material : Painted starter ring gear without lightening holes

Weight and balance : influence negligible

Remarks : Instruction 1 of the initial edition is waived with Revision 1.

Instruction No. 2 may be executed by the pilot/owner himself.

Instruction No. 3 is to be executed by the manufacturer or by a licensed workshop and to be inspected and entered in the aircraft logs by a licensed inspector.

Bruchsal, date:
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