

RECOMMENDED SERVICE BULLETIN NO. RSB40-040

I. TECHNICAL DETAILS

1.1 Category

Recommended.

1.2 Airplanes affected

DA40: 40.006 up to and incl. 40.079
 40.081 up to and incl. 40.083
 40.201 up to and incl. 40.450

1.3 Time of Compliance

At owners' discretion.

1.4 Subject

The recommended replacement of plain nuts and shake-proof washers with self locking nuts and plain washers.

ATA-Code: 78-00, exhaust system

1.5 Reason

Improved installation of the exhaust riser to cylinder joint.

1.6 Concurrent documents

- DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01
- Lycoming Service Instruction SI-1204B.

1.7 Approval

The information and instructions contained in this document relate to the Design Change Advisory MÄM 40-179 which has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052

The technical information contained in this document has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

1.8 Accomplishment/Instructions

- 1.8.1 It is recommended to perform a careful visual inspection of the exhaust system for cracks prior to replacing exhaust stud nuts.
- 1.8.2. Loosen plain nuts on cylinder studs but do not remove them.
- 1.8.3. Supporting exhaust system, remove plain nuts and shake-proof washers from pair of cylinders on one side of engine. Do not disturb riser clamps or fasteners.
NOTE: It is important to support the exhaust system so that no load is placed on the riser clamps.
- 1.8.4. Lower exhaust system far enough to remove exhaust gaskets.
- 1.8.5. Install new exhaust gaskets (Lycoming 75118 or 77611). Refer to Lycoming SI1204B.
- 1.8.6 Install plain washers (AN960C516) and self locking nuts (STD-2233) but do not tighten.
- 1.8.7. Repeat steps 1.8.3. through 1.8.6. for other pair of cylinders.
- 1.8.8. Torque self locking nuts progressively in a crossing pattern to 17 ft lbs / 204 inlbs / 23 Nm.
NOTE: Add friction torque to this value to get final torque.

1.9 Recurring Actions

None.

1.10 Mass (Weight) and CG

Negligible.

II. PLANNING INFORMATION

2.1 Material & Availability

All parts can be obtained from Diamond Aircraft Industries GmbH or from your local General Distributor or Diamond Service Center.

2.2 Special Tools

No special tools are required.

2.3 Labor

Appr. 1 hour.

2.4 Reference documents

- Diamond DA 40 Airplane Maintenance Manual, Doc. No. 6.02.01.

2.5 Credit

None.

III. REMARKS

- Unless otherwise prescribed, the work must be carried out in accordance with the instructions of the Airplane Maintenance Manual, Doc. No. 6.02.01. The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- In case of doubt, contact Diamond Aircraft.