

# SERVICE BULLETIN



Service Bulletin No.: DAC1-32-01 Rev 0

Date Issued: 28 Feb 2007

Title: NLG Elastomer Pack Disk Retention

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1. **ATA Code:** 3220
2. **Effectivity:** DA20-C1 aircraft up to Serial Number C0424
3. **General:** This service bulletin addresses modification of the nose landing gear elastomer pack to improve retention of the upper disk.
4. **Compliance:** Compliance with this service bulletin is optional but recommended.
5. **Approval:** Engineering data referenced or contained in this service bulletin is approved as part of the type design.
6. **Labour:** Approximately 1.5 hours will be required to accomplish this service bulletin.

*This estimate is for direct labor performed by a technician and it does not include setup, planning, familiarization, cure time, part fabrication or tool acquisition.*

| 7. <b>Material:</b> | <b>Part Number</b>                                     | <b>Description</b>                 | <b>Qty</b> |
|---------------------|--|------------------------------------|------------|
|                     | MS24693S28   | Screw, countersink, 6-32x0.5"      | 1          |
|                     | MS21042-06   | Nut, reduced hexagon, self locking | 1          |
|                     | Materials required but not supplied (procure locally): |                                    |            |
|                     | Loctite 222  | Thread sealer                      | A/R        |

8. **Special Tools:** N/A
9. **References:** DA20-C1 Maintenance Manual, Document number DA201-C1.

## 10. Accomplishment Instructions:

- 10.1 Remove nose landing gear elastomer in accordance with Maintenance Manual Chapter 32-20.
- 10.2 Remove and retain the adjusting nut, washer, bottom elastomer, journal, elastomer elements (x10) and spacers (x9).
- 10.3 Using a drift punch, carefully remove the spring pin that connects the upper disk to the shaft.
- 10.4 Carefully enlarge the hole in the disk and shaft to 0.138"-0.00"/+0.01") (3.5-0.0/+0.2mm).
- 10.5 Countersink the bottom side of the upper disk 100° to  $\Phi 0.28"$  (7mm) to accept the MS24693S28 screw.

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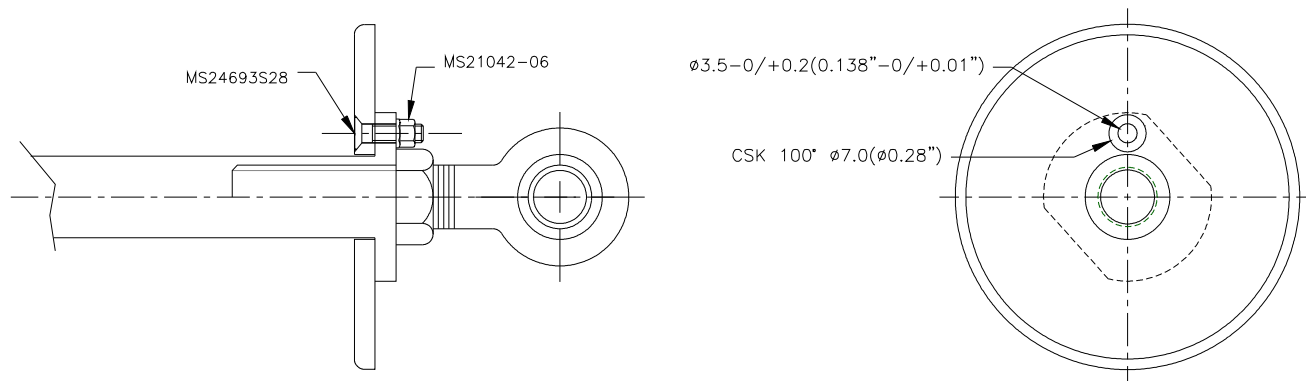
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- 10.6 Install the upper disk on the shaft with the MS24693S28 screw and MS21042-06 nut. Use Loctite on bare aluminum surfaces to prevent corrosion.
- 10.7 Assemble elastomer package in accordance with Maintenance Manual Chapter 32-20.
- 10.8 Install elastomer package in accordance with Maintenance Manual Chapter 32-20.

## 11. Weight and Balance:

The weight and balance is not affected by this Service Bulletin.

12. Availability: Contact Diamond Aircraft.



**Figure 1 – Detail of NLG Upper Disk Installation**

*To obtain satisfactory results, procedures specified in this service bulletin 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 bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this Service Bulletin if it is not incorporated.*

*If you no longer own the aircraft to which this service bulletin 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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