

CHAPTER 2
MAINTENANCE
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INTRODUCTION

1 This chapter details pre-flight inspection and periodic maintenance of a GQ 650 "Silhouette" parachute assembly.

WARNINGS

- (1) **RE-PACKING OF THIS ASSEMBLY MUST BE UNDERTAKEN BY A CERTIFIED FAA RIGGER OR FOREIGN EQUIVALENT.**
- (2) **REPAIR OF DAMAGED ASSEMBLIES MUST BE CARRIED OUT BY THE MANUFACTURER OR A CERTIFIED FAA RIGGER OR FOREIGN EQUIVALENT TO THE INFORMATION CONTAINED IN INSTRUCTION MANUAL No 708**
- (3) **ENSURE THAT THE RIPCORD PINS HAVE BEEN CHECKED IAW CAA SERVICE BULLETIN SB?????**

MAINTENANCE NOTES

2 The following Maintenance Notes are to be observed:

2.1 The life of the assembly is 15 years from date of manufacture subject to a critical inspection at 10 years.

2.2 The recommended re-packing cycle for this assembly is 120 days (four months)

2.3 France only. Direction Generale De L'Aviation Civile Letter Reference 2000/03749/SFACT/N.ME dated 19 Juin 2000 authorises that the parachute assembly may be packed for a period of one year under the following conditions:

a The parachute assembly has a Serial Number of 726729 or later, or has been modified by Service Bulletin Number 18052000 version A

Additionally, the parachute assembly must remain in its transportation bag when not in use to protect it from:

- a Physical abuse
- b Sun or ultra violet light
- c Acid and contamination
- d Atmospheric conditions outside the range 15 – 20 degrees Celsius and a PH range of 5 – 7 %

PRE-FLIGHT INSPECTION

3 Carry out a pre-flight inspection as follows:

3.1 Remove the log card from its pocket and ensure that the assembly is not due periodic maintenance/re-pack.

- 3.2 Inspect and operate the snaphooks on the combined leg/chest straps. Make sure they open and close properly.
- 3.3 Inspect the exposed harness webbing for cuts, wear and tear or fraying especially where the webbing is routed through or around the metal fittings.
- ▶ 3.4 Gently ease the ripcord handle in its pocket, making sure that it is free to move and that the elastic keeper retains the handle securely. Ensure ripcord pins have been checked IAW CAA Service Bulletin SB A25/0001 dated 1 August 2003. ◀
- 3.5 Peel open the ripcord protection flap on the back of the parachute. RUSTY, BENT or JAMMED ripcord pins are NOT ALLOWED. Carefully ease the pins in and out, making sure they are unencumbered in their movement.
- 3.6 In the event of the parachute having been contaminated with oil, other petroleum product, water, battery acid or discolouration due to actinic or UV action, it should be placed with a qualified parachute rigger immediately for inspection and/or remedial action.

PERIODIC INSPECTION

- 4 It is recommended that a periodic inspection is carried out at the periods listed at para 2 MAINTENANCE NOTES as follows:
- 4.1 Place the assembly on a clean packing table, then simulate operation by pulling the ripcord.
- 4.2 Check log card and ensure the assembly overall 15 year life will not expire before the next periodic examination.
- 4.3 Stretch out the assembly at full length and attach the vent lines to the packing table hook.
- 4.4 Canopy Examine for contamination, broken stitching, holes and tears.
- 4.5 Rigging lines Examine for security of attachment to canopy and links and that they are attached in the correct sequence.
- 4.6 Ensure uniformity of length.
- 4.7 Pilot chute and connecting line Examine for tears, holes, broken stitching and correct attachment to the canopy apex.
- 4.8 Ensure pilot chute spring is not broken and functions correctly.
- ▶ 4.9 Ripcord Clean the handle, cables and pins then examine for fraying, kinking and corrosion. Ensure ripcord pins have been checked IAW CAA Service Bulletin SB A25/0001 dated 1 August 2003. ◀

- 4.10 Harness assembly Examine webbing for contamination broken stitching and chafing.
- 4.11 Examine all metal fittings for, distortion, corrosion and security of attachment, operate snaphooks.
- 4.12 Container assembly, back and seat pads Examine for contamination, holes, tears and broken stitching. Examine eyelets for distortion and press fasteners for distortion and correct functioning.
- 4.13 Kicker plate, closure loops and closure spring Examine kicker, plate for distortion, cracking and burrs.
- 4.14 Closure loops, examine for fraying
- 4.15 Closure spring, examine hooks for corrosion and distortion.
- 6.16 Re-packing Re-pack the parachute assembly referring to Chapter 3.
- 6.17 Recording Record on log card.