



## NTSB MEMORANDUM FOR RECORD

**Adam Gerhardt**  
**Air Safety Investigator**  
**Eastern Region, Office of Aviation Safety (ERA)**  
**National Transportation Safety Board**

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**Date: October 23, 2019**

**Person Contacted: Mark Carroll (Director of Safety, Security, Delta Private Jets)**

**NTSB Accident Number: ERA20LA008**

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### **Narrative:**

The following is a memorandum for record regarding email correspondence provided by Mr. Carroll. Please refer to Figures 1 and 2, provided by Mr. Carroll, for part and item numbers as it pertains to the nose landing gear postaccident inspection:

- Delta Private Jets maintenance personnel reported to Mr. Carroll that the following item/parts were missing during an inspection of the nose landing gear (NLG) postaccident:
  - Item 80 – Part Number SP90E14
  - Item 85 – Part Number 25UN363
  - Item 90 – Part Number SP124S
  - Note: Item 95 was NOT missing, but it is highlighted for reference in Figure 1
- Operator records indicated the nose landing gear flew 124 ‘cycles’ since the overhaul work performed in January 2019.



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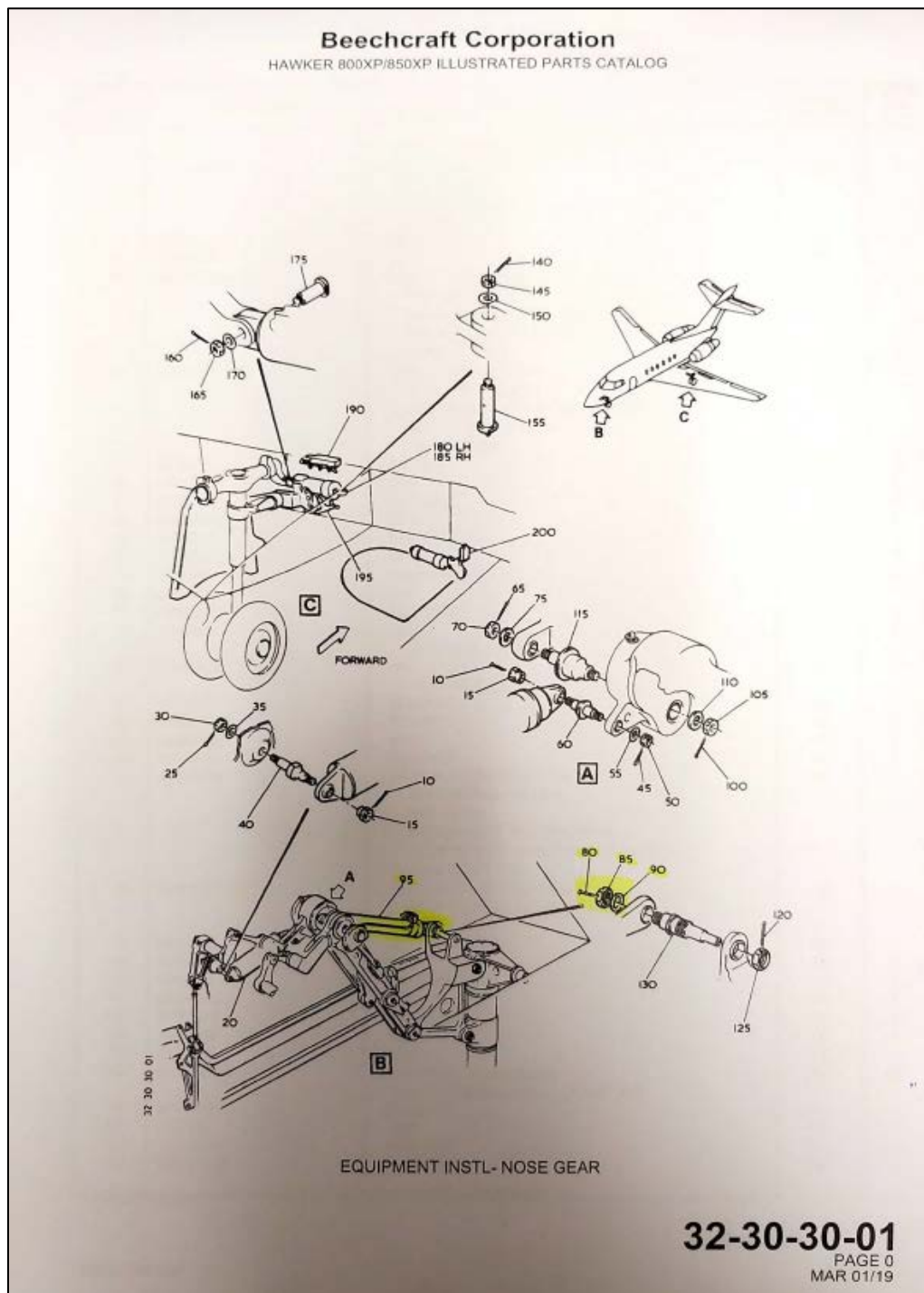


Figure 1: Hawker 800/ 850XP illustrated part catalog, nose landing gear



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| Beechcraft Corporation                       |      |              |                                                                                                                                     |                   |                      |
|----------------------------------------------|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|
| HAWKER 800XP/850XP ILLUSTRATED PARTS CATALOG |      |              |                                                                                                                                     |                   |                      |
| FIG                                          | ITEM | PART NUMBER  | NOMENCLATURE<br>1 2 3 4 5 6 7                                                                                                       | USABLE<br>ON CODE | UNITS<br>PER<br>ASSY |
| 01                                           | -5   | 25-8UA3-1A   | EQUIPMENT INSTL- NOSE GEAR<br>GEAR INSTL-NOSE GEAR<br>MOD 252905<br>FOR NHA SEE:<br>32-30-00, FIG.01                                | FE                | 1                    |
|                                              | 10   | SP90C8       | PIN-SPLIT                                                                                                                           | FE                | 2                    |
|                                              | 15   | 25UN253      | NUT                                                                                                                                 | FE                | 2                    |
|                                              | 20   | 25-8UN569-1A | STRUT ASSY-SPRING<br>FOR SPARES SEE<br>MANUFACTURERS COMPONENT<br>MAINTENANCE MANUAL<br>CMM 32-20-01                                | A                 | 1                    |
|                                              | 20   | 25UN733-13A  | STRUT ASSY-SPRING<br>FOR SPARES SEE<br>MANUFACTURERS COMPONENT<br>MAINTENANCE MANUAL<br>CMM 32-20-01                                | B                 | 1                    |
|                                              | 25   | SP90C8       | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 30   | A110ES       | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 35   | SP125E       | WASHER                                                                                                                              | FE                | 1                    |
|                                              | 40   | 25-8UN97-1   | PIN                                                                                                                                 | FE                | 1                    |
|                                              | 45   | SP90C8       | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 50   | A110ES       | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 55   | SP125E       | WASHER                                                                                                                              | FE                | 1                    |
|                                              | 60   | 25UN55       | PIN                                                                                                                                 | FE                | 1                    |
|                                              | 65   | SP90E10      | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 70   | A110NS       | NUT                                                                                                                                 | C                 | 1                    |
|                                              | 70   | 130909N2     | PRE MOD 25F522A<br>NUT                                                                                                              | D                 | 1                    |
|                                              | 75   | SP122N       | MOD 25F522A<br>WASHER                                                                                                               | FE                | 1                    |
|                                              | 80   | SP90E14      | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 85   | 25UN363      | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 90   | SP124S       | WASHER                                                                                                                              | FE                | 1                    |
|                                              | 95   | AIR45404     | JACK ASSY-RETRACTION<br>FOR SPARES ORDER:<br>AIR45404-1<br>FOR SPARES SEE VENDORS<br>COMPONENT MAINTENANCE MANUAL<br>CMM 32-30-1106 | FE                | 1                    |
|                                              | 95   | AIR45404-1   | JACK ASSY-RETRACTION<br>SPARES REPLACEMENT FOR:<br>AIR45404                                                                         | FE                | 1                    |
|                                              | 100  | SP90C8       | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 105  | A110NS       | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 110  | SP125N       | WASHER                                                                                                                              | FE                | 1                    |
|                                              | 115  | 25UN653      | PIN                                                                                                                                 | FE                | 1                    |
|                                              | 120  | SP90G14      | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 125  | 25UN259      | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 130  | 25UN597      | PIN                                                                                                                                 | FE                | 1                    |
|                                              | -135 | 25-8UA1-1A   | GEAR INSTL-MECHANISM,<br>MAIN LANDING GEAR, LH AND RH                                                                               | FE                | RF                   |
|                                              | 140  | SP90E10      | PIN-SPLIT                                                                                                                           | FE                | 1                    |
|                                              | 145  | A110NS       | NUT                                                                                                                                 | FE                | 1                    |
|                                              | 150  | 25UM299      | WASHER                                                                                                                              | FE                | 1                    |
|                                              | 155  | 25UM153A     | BOLT ASSY                                                                                                                           | FE                | 1                    |
|                                              |      |              | MISSING ITEM NO. NOT APPLICABLE                                                                                                     |                   |                      |
| - ITEM NOT ILLUSTRATED                       |      |              |                                                                                                                                     |                   |                      |
| 800XP/850XP                                  |      |              | 32-30-30-01                                                                                                                         |                   |                      |
|                                              |      |              | PAGE 1                                                                                                                              |                   |                      |
|                                              |      |              | MAR 01/19                                                                                                                           |                   |                      |

Figure 2: Hawker 800/ 850XP illustrated part catalog description, nose landing gear



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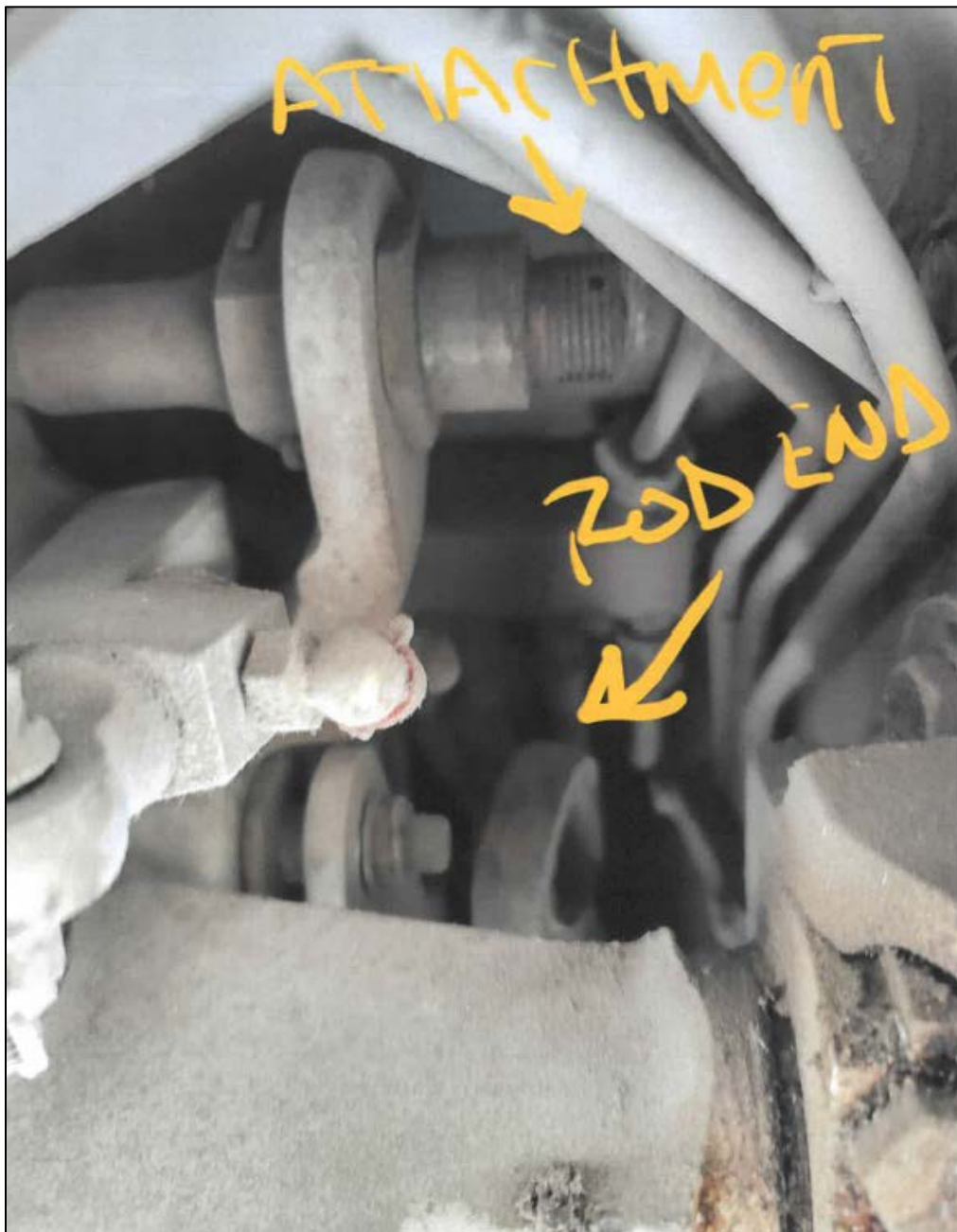


Photo 1: View of actuator and its attach point (Photo Courtesy of Delta Private Jets)