

# GULFSTREAM G150

## MAINTENANCE MANUAL

### AIRWORTHINESS LIMITATIONS SECTION P/N G150-1001-3

#### 1. Airworthiness Limitations Section

##### A. Introduction

This Airworthiness Limitations Section is Civil Aviation Authority of Israel (CAAI) approved and specifies maintenance required under Israeli Air Navigation Regulations (ANR) Chapter 7 Section 126 (equivalent to Sections 43.16 and 91.403 of the Code of Federal Regulations) unless an alternative program has been CAAI approved. The signed CAAI approval form is kept on file with Gulfstream Aerospace Publications.

These Airworthiness Limitations are mandatory actions derived from the certification activities, namely, the Damage Tolerance Analysis and the Fatigue Tests. This section presents the maintenance actions established in order to fully comply with the requirements of Title 14 CFR 25.571 and 25.1529 and, therefore, are required to be accomplished in strict compliance with the life limits, maximum intervals limits, inspection methods and PSE location established herein. The Airworthiness Limitations are a result of the Engineering Certification analysis and have been approved by CAAI. The Airworthiness Limitations may only be revised with the approval of the Civil Aviation Authority of Israel (CAAI).

Damage tolerance analysis of the Gulfstream G150 shows that the aircraft structure can safely sustain damage in the form of cracks permitting timely detection and repair of cracks.

The Airworthiness Limitations Section provides a set of procedures for inspection points of the following six major aircraft components:

- Forward fuselage
- Carry-through structure
- Aft fuselage (including Engine Supports)
- Empennage
- Wing
- Landing gears

For each of these sections, a summary table of the inspection points is presented below. See Table 4.

These tables give, for each major aircraft structural component, a list of structural points where inspections are to be carried out. For each inspection point the following are given:

- The structural part and location to be inspected
- The inspection method to be used
- The number of flights before the first inspection (initial inspection threshold)
- The number of flights between all further inspections (repeat inspection intervals)
- Effectivity

The Airworthiness Limitations Section stipulates, by means of Continued Airworthiness Inspection Tables, explicit inspection procedures and intervals for the detection of structural cracks throughout the life of the aircraft. This is facilitated by the information presented in this Airworthiness Limitations Section.

Airworthiness Limitations inspections are specified on the basis of flights and not of flight hours. See Table 4 for flight cycles. Airframe inspection items will reflect the total flight cycles of the aircraft. Inspections conducted on a Line Replaceable Unit (LRU), (i.e., flaps, spoilers etc.) will be tracked by

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the total flights of the LRU itself and not total aircraft flights. To allow the scheduling of structural inspections to coincide with a general maintenance check, an inspection overfly tolerance of +5% is allowed. For an inspection accomplishment at a time earlier than the published interval, subsequent inspections are to be scheduled at the specified REPEAT inspection interval and may be accomplished at no later than +5% of the REPEAT interval. See Figure 1 for examples. Compliance of the inspection greater than the REPEAT Interval +5% is not allowed.

An item that has become overdue for an aircraft as the result of a revision to the ALS (which includes a new item or a reduced threshold and / or frequency reduction) may be accomplished, unless specifically stated otherwise, at the next inspection interval, not to exceed 500 hours.

The aircraft is not authorized to fly more than 20,000 flights.

If cracks are detected in any of the specified inspections, this information must be reported immediately to Israel Aircraft Industries (IAI) and Gulfstream Aerospace LP. Customer Service will then advise on the procedure to be followed. A form for reporting inspection results is provided in Table 6 of this section.

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### 10,000 INITIAL 2000 RECURRING (EARLY COMPLIANCE = 7000)

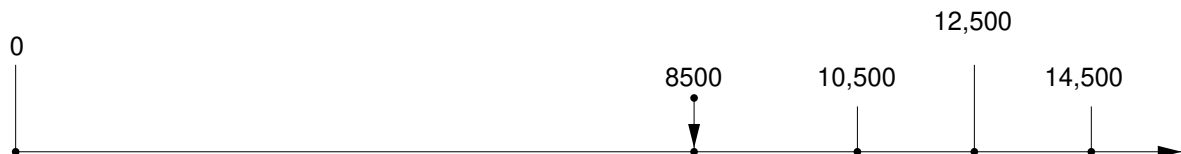
If time remaining after early compliance is greater than the recurring interval, the next inspection due is at the original initial due time.



For initial compliance early at 3000 cycles having 7000 cycles remaining until the original threshold interval, the next requirement is at the original 10,000 cycles then recurring at 2000 cycles.

### 10,000 INITIAL 2000 RECURRING (EARLY COMPLIANCE = 1500)

If time remaining after early compliance is less than the recurring interval, the next inspection due is at the recurring interval from the actual accomplished point.



For initial compliance early at 8500 cycles having less than 2000 cycles remaining until the original due time, the next requirement is at 10,500 cycles and all subsequent requirements are recurring at 2000 cycles.

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Early Inspection Compliance  
Figure 1

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For abbreviations used in the airworthiness limitations inspections, see Table 1.

**Table 1: Airworthiness Limitations Inspection Abbreviations**

|        |                             |       |                     |
|--------|-----------------------------|-------|---------------------|
| AF -   | Aft Fuselage                | LHS - | Left Hand Side      |
| CTS -  | Carry Through Structure     | MLG - | Main Landing Gear   |
| E -    | Empennage                   | NLG - | Nose Landing Gear   |
| FF -   | Forward Fuselage            | RHS - | Right Hand Side     |
| HFEC - | High Frequency Eddy Current | TE -  | Trailing Edge       |
| HS -   | Horizontal Stabilizer       | US -  | Ultrasound          |
| LE -   | Leading Edge                | VS -  | Vertical Stabilizer |
| LFEC - | Low Frequency Eddy Current  | W -   | Wing                |
| LG -   | Landing Gear                |       |                     |

Alternative inspection methods may be used as follows provided the inspector determines the inspection method will provide satisfactory results. See Table 2 and Table 3.

- Inspection methods of X-ray, ultrasonic, eddy current or penetrant may be used in place of visual inspection methods
- Inspection methods of X-ray, ultrasonic and eddy current may be used in place of penetrant inspection methods

**NOTE:** Inspection methods specified as ultrasonic or eddy current should not be substituted with X-ray as these methods have been determined as the best methods.

**Table 2: Alternate NDI Inspections - Accessible Locations**

| LOCATION   | STATED METHOD      | ALTERNATE METHOD |           |                     |                    |
|------------|--------------------|------------------|-----------|---------------------|--------------------|
|            |                    | VISUAL           | PENETRANT | HFEC <sup>(1)</sup> | MAGNETIC PARTICLES |
| Accessible | Visual             | —                | Yes       | Yes                 | No                 |
|            | Penetrant          | No               | —         | Yes                 | No                 |
|            | HFEC               | No               | No        | —                   | No                 |
|            | Magnetic Particles | No               | No        | Yes <sup>(1)</sup>  | —                  |

<sup>(1)</sup> High Frequency Eddy Current (HFEC).

<sup>(2)</sup> Specific authorization is required.

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**Table 3: Alternate NDI Inspections - Inaccessible Locations**

| LOCATION     | STATED METHOD | ALTERNATE METHOD   |                    |                     |
|--------------|---------------|--------------------|--------------------|---------------------|
|              |               | X-RAY              | ULTRASOUND         | LFEC <sup>(1)</sup> |
| Inaccessible | X-ray         | —                  | Yes <sup>(2)</sup> | Yes <sup>(2)</sup>  |
|              | Ultrasound    | Yes <sup>(2)</sup> | —                  | Yes <sup>(2)</sup>  |
|              | LFEC          | Yes <sup>(2)</sup> | Yes <sup>(2)</sup> | —                   |

<sup>(1)</sup> Low Frequency Eddy Current (LFEC).

<sup>(2)</sup> Specific authorization is required.

This Airworthiness Limitations Section is based on IAI engineering report 25G032/030367.

Table 4 contains a list of structural inspections along with the specific description, initial threshold, repeat interval and Computerized Maintenance Program (CMP) Reference. See Figure 2 for ALS locations.

Table 5 contains a requirement to visually inspect for external damage to the skin of unpainted aircraft.

Table 6 contains a form for reporting inspection results.

Table 7 contains a list of Safe Life Limited Components.

Table 8 contains a list of all CMR tasks.

Table 9 contains a list of fuel tank system inspections along with the specific description, initial threshold, repeat interval and CMP reference.

Table 10 contains temporary limitations and inspection requirements.

### **B. Airworthiness Limitations — Structural Inspections**

(1) ALS Inspections

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**Table 4: Airworthiness Limitations**

| ALS Number | Description                                                                                                                                                            | NDI Type | Inspection Interval |                    | ATA Ref  | CMP Ref |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------|----------|---------|
|            | Aircraft Maintenance Manual Procedure                                                                                                                                  |          | Initial             | Repeat             |          |         |
| ACF1.1     | All fasteners along upper splice, skin / upper frames attachments<br><br>Upper Skin Splice and Frame Attachment FS 282 - FS 343 (7172 - 8715 mm) - Detailed Inspection | Visual   | 10000 flight cycles | 5000 flight cycles | 53-41-00 | 534101  |
| ACF1.2     | All fasteners along skin / intercostal attachments<br><br>Upper Skin and Intercostal Attachment FS 282 - FS 343 (7172 - 8715 mm) - Detailed Inspection                 | Visual   | 10000 flight cycles | 5000 flight cycles | 53-41-00 | 534102  |
| ACF1.3     | All fasteners along skin / upper longeron attachment<br><br>Upper Skin and Longeron Attachment FS 282 - FS 343 (7172 - 8715 mm) - NDT Inspection                       | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-41-00 | 534103  |
| ACF1.4     | All fasteners along skin / aft pressure bulkhead attachment<br><br>Upper Skin at Aft Pressure Bulkhead Attachment - NDT Inspection                                     | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-41-00 | 534104  |
| ACF2.1     | All fasteners along skin, side splice / side frames attachments<br><br>Side Skin Splice and Frame Attachment FS 282 - FS 343 (7172 - 8715 mm) - Detailed Inspection    | Visual   | 10000 flight cycles | 5000 flight cycles | 53-41-00 | 534105  |

| <b>ALS<br/>Number</b> | <b>Description<br/><br/>Aircraft Maintenance Manual<br/>Procedure</b>                                                                                                             | <b>NDI Type</b> | <b>Inspection Interval</b> |                    | <b>ATA<br/>Ref</b> | <b>CMP<br/>Ref</b> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------|--------------------|--------------------|
|                       |                                                                                                                                                                                   |                 | <b>Initial</b>             | <b>Repeat</b>      |                    |                    |
| ACF2.2                | All fasteners along skin / aft pressure bulkhead attachment<br><br>Side Skin to Aft Pressure Bulkhead Attachment FS 343 (8715 mm) - Detailed Inspection                           | Visual          | 10000 flight cycles        | 5000 flight cycles | 53-41-00           | 534106             |
| ACF2.3                | All fasteners along skin / upper longeron attachment<br><br>Side Skin and Longeron Attachment FS 282 - FS 343 (7172 - 8715 mm) - NDT Inspection                                   | HFEC            | 10000 flight cycles        | 5000 flight cycles | 53-41-00           | 534107             |
| ACF2.4                | All fasteners of skin / emergency exit door doubler attachment<br><br>Side Skin to Emergency Exit Door Doubler FS 282 - FS 320 (7172 - 8132 mm) - NDT Inspection                  | HFEC            | 10000 flight cycles        | 5000 flight cycles | 53-41-00           | 534108             |
| ACF3.1                | All fasteners along upper skin / upper frame attachment<br><br>Aft Cabin Upper Skin to Frame and Longeron Attachment (Interior) FS 282 - FS 343 (7172 - 8715 mm) - NDT Inspection | HFEC            | 10000 flight cycles        | 5000 flight cycles | 53-43-00           | 534301             |
| ACF3.2                | All fasteners on inner splice / upper frame attachment<br><br>Upper Inner Splice to Upper Frame Attachment FS 282 - FS 343 (7172 - 8715 mm) - NDT Inspection                      | HFEC            | 10000 flight cycles        | 5000 flight cycles | 53-43-00           | 534302             |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                       | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------|------------|------------|
|               |                                                                                                                                                                                                                   |          | Initial             | Repeat             |            |            |
| ACF5.1        | All fasteners along upper and side skin / upper and side frames attachments (on frames)<br><br>Aft Cabin Upper and Side Frame to Skin Attachment FS 282 - FS 343 (7172 - 8715 mm) - Detailed Inspection           | Visual   | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534303     |
| ACF5.2        | All fasteners on inner splice / upper and side frames attachment (frames and splices) - Frame 28<br><br>Aft Cabin Inner Splice to Upper and Side Attachment at Frame 28 - NDT Inspection                          | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534304     |
| ACF5.3        | All fasteners on inner splices / upper and side frames attachment (frames and splices) - Frame 29 - Frame 34<br><br>Aft Cabin Inner Splice Attachment to Upper and Side Frame 29 - Frame 34 - Detailed Inspection | Visual   | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534305     |
| ACF5.4        | All fasteners on lower splice / side frame attachment (frames and splices) - Frame 28<br><br>Aft Cabin Lower Splice to Side Frame 28 - NDT Inspection                                                             | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534306     |

| ALS<br>Number           | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                             | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------|------------|------------|
|                         |                                                                                                                                                                                                                         |          | Initial             | Repeat             |            |            |
| ACF5.5                  | All fasteners on lower splice / side frame attachment (frames and splices) - Frame 29, Frame 31 - Frame 34<br><br>Aft Cabin Lower Splice and Side Frame Attachments Frame 29, Frame 31 - Frame 34 - Detailed Inspection | Visual   | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534307     |
| ACF5.6                  | All fasteners on outer splice / skin attachment - Frame 28<br><br>Aft Cabin Outer Splice Skin at Frame 28 - NDT Inspection                                                                                              | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534308     |
| ACF9                    | Emergency exit door, window frame and door brackets<br><br>Emergency Exit Window Frame and Door Brackets - NDT Inspection                                                                                               | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534309     |
| ACF10                   | All fasteners on side skin / door doubler attachment - Frame 28 - Frame 32<br><br>Emergency Exit Side Skin and Door Doubler Attachment Frame 28 - Frame 32 - NDT Inspection                                             | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534310     |
| ACF13<br>ACF14          | Upper / lower sill and door stoppers<br><br>Emergency Exit Upper and Lower Sill and Door Stoppers - NDT Inspection                                                                                                      | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534311     |
| ACF18<br>ACF19<br>ACF20 | All fasteners on 3 splices of upper longeron<br><br>Aft Cabin Longerons Splices at FS 282 (7172 mm) - NDT Inspection                                                                                                    | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-43-00   | 534312     |

| ALS<br>Number     | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                     | NDI Type | Inspection Interval    |                    | ATA<br>Ref | CMP<br>Ref |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|--------------------|------------|------------|
|                   |                                                                                                                                                                 |          | Initial                | Repeat             |            |            |
| Bulkhead<br>1.1   | All fasteners along angle support / PI /<br>forward web attachments (PI forward leg)<br><br>Aft Pressure Bulkhead Hat Section<br>Forward Web - NDT Inspection   | LFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534231     |
| Bulkhead<br>1.2   | All fasteners along angle support / PI /<br>forward web attachments (angle support)<br><br>Aft Pressure Bulkhead Hat Section Angle<br>Support - NDT Inspection  | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534232     |
| Bulkhead<br>1.3   | All fasteners along skin / outer strap<br>attachments<br><br>Aft Pressure Bulkhead Hat Section Skin /<br>Outer Strap Attachment - NDT Inspection                | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534233     |
| Bulkhead<br>1.7.1 | All integral stiffeners<br><br>Aft Pressure Bulkhead Lower Base<br>Integral Stiffeners - NDT Inspection                                                         | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534234     |
| Bulkhead<br>1.7.2 | All fasteners along forward leg of PI<br>channel / forward web attachment<br><br>Aft Pressure Bulkhead Lower Base<br>Channel Forward Web - NDT Inspection       | LFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534235     |
| Bulkhead<br>1.7.3 | All clips corner along forward leg of PI<br>and Z channel / forward web attachment<br><br>Aft Pressure Bulkhead Lower Base<br>Channel Clips - Visual Inspection | Visual   | 10000 flight<br>cycles | 5000 flight cycles | 53-42-03   | 534230     |

| <b>ALS<br/>Number</b> | <b>Description<br/><br/>Aircraft Maintenance Manual<br/>Procedure</b>                                                                                                                                            | <b>NDI Type</b> | <b>Inspection Interval</b> |                    | <b>ATA<br/>Ref</b> | <b>CMP<br/>Ref</b> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------|--------------------|--------------------|
|                       |                                                                                                                                                                                                                  |                 | <b>Initial</b>             | <b>Repeat</b>      |                    |                    |
| Bulkhead<br>1.8       | All fasteners along forward web / omega<br>and Z profiles and PI channel<br>attachments (web side)<br><br>Aft Pressure Bulkhead Forward Web<br>Omega / Z Profiles and PI Channel<br>Attachments - NDT Inspection | HFEC            | 10000 flight<br>cycles     | 5000 flight cycles | 53-42-03           | 534236             |
| Bulkhead<br>1.9       | Aft web cutouts radii<br><br>Aft Pressure Bulkhead Aft Web Cutouts<br>Radii - Detailed Inspection                                                                                                                | Visual          | 10000 flight<br>cycles     | 5000 flight cycles | 53-42-03           | 534237             |
| Bulkhead<br>1.10.1    | All fasteners along forward web / omega<br>and Z profiles attachments (omega and Z<br>profiles)<br><br>Aft Pressure Bulkhead Forward Web /<br>Omega and Z Profiles Attachments - NDT<br>Inspection               | LFEC            | 10000 flight<br>cycles     | 5000 flight cycles | 53-42-03           | 534238             |
| Bulkhead<br>1.10.2    | All fasteners along aft web / omega and<br>Z profiles attachments (omega and Z<br>profiles)<br><br>Aft Pressure Bulkhead Aft Web / Omega<br>and Z Profiles Attachment - NDT<br>Inspection                        | LFEC            | 10000 flight<br>cycles     | 5000 flight cycles | 53-42-03           | 534239             |
| Bulkhead<br>1.11      | Box casting<br><br>Aft Pressure Bulkhead Box Casting -<br>Detailed Inspection                                                                                                                                    | Visual          | 10000 flight<br>cycles     | 5000 flight cycles | 53-42-03           | 534240             |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                      | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------|------------|------------|
|               |                                                                                                                                  |          | Initial             | Repeat             |            |            |
| CTS1.1        | All fasteners along rear spar / skin attachment<br><br>CTS Lower Skin Rear Spar / Skin Attachment - NDT Inspection               | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533101     |
| CTS1.2        | All fasteners along front spar / skin attachment<br><br>CTS Lower Skin Front Spar / Skin Attachment - NDT Inspection             | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533102     |
| CTS1.3        | All fasteners along lower skin / lower splice attachment<br><br>CTS Lower Skin / Lower Splice Attachment - NDT Inspection        | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533103     |
| CTS1.4        | All access panel cutouts, along the perimeter<br><br>CTS Lower Skin / Access Panel Cutouts Along the Perimeter - NDT Inspection  | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533104     |
| CTS1.5        | Around all drain holes<br><br>CTS Lower Skin / Drain Holes - NDT Inspection                                                      | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533105     |
| CTS1.6        | All fasteners along lower skin / ribs BL 330.2 attachment<br><br>CTS Lower Skin / Ribs BL 330.2 Attachment - Detailed Inspection | Visual   | 10000 flight cycles | 5000 flight cycles | 53-31-00   | 533106     |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                      | NDI Type         | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------------|------------|------------|
|               |                                                                                                                                                  |                  | Initial             | Repeat             |            |            |
| CTS2.1        | All fasteners along front spar / lower skin attachment<br><br>Front Spar / Lower Skin Attachment - Detailed Inspection                           | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-32-00   | 533201     |
| CTS2.2        | All fasteners along front spar / upper skin attachment<br><br>Front Spar / Upper Skin Attachment - Detailed Inspection                           | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-32-00   | 533202     |
| CTS2.3        | All fasteners along front spar / web LBL 872 and RBL 872 attachment<br><br>Front Spar / Web BL 872 Attachment - Detailed Inspection              | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-32-00   | 533203     |
| CTS3.1        | All fasteners along rear spar / lower skin attachment<br><br>Rear Spar / Lower Skin Attachment - Detailed Inspection                             | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-33-00   | 533301     |
| CTS3.2        | All fasteners along rear spar / upper skin attachment<br><br>Rear Spar / Upper Skin Attachment - Detailed Inspection                             | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-33-00   | 533302     |
| CTS3.3        | All fasteners along rear spar / web LBL 872 and RBL 872 attachments<br><br>Rear Spar / Web LBL 872 and RBL 872 Attachments - Detailed Inspection | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-33-00   | 533303     |

| ALS Number           | Description<br><hr/> Aircraft Maintenance Manual Procedure                                                                                                                                                                                                  | NDI Type            | Inspection Interval |                    | ATA Ref  | CMP Ref                    |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|--------------------|----------|----------------------------|
|                      |                                                                                                                                                                                                                                                             |                     | Initial             | Repeat             |          |                            |
| CTS3.4               | Web around access panel cutouts<br><hr/> Rear Spar Access Panel Cutouts - Detailed Inspection                                                                                                                                                               | Visual              | 10000 flight cycles | 5000 flight cycles | 53-33-00 | 533304                     |
| CTS4<br>CTS5<br>CTS6 | All fasteners along lower skin / tee chord, along upper skin / cross chord, along cross chord / Web BL 872 and tee chord / web BL 872 attachments.<br><hr/> Lower Skin Tee Chord and Upper Skin Cross Chord Attachments at Rib BL 872 - Detailed Inspection | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 53-34-00 | 533401<br>533402<br>533403 |
| CTS7.1               | All fasteners on main fitting lower part, attachment to front spar<br><hr/> Frame 28 Main Fitting Lower Front Spar Attachment - NDT Inspection                                                                                                              | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533506                     |
| CTS7.2               | Inner flange of the main fitting upper part<br><hr/> Frame 28 Main Fitting Upper Inner Flange - NDT Inspection                                                                                                                                              | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533507                     |
| CTS8                 | Frame 29 - lower fitting, inner flange and web<br><hr/> Frame 29 Lower Fittings Inner Flange and Web - Detailed Inspection                                                                                                                                  | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533501                     |
| CTS9                 | Frame 30 - Lower fitting, inner flange and web<br><hr/> Frame 30 Lower Fittings Inner Flange and Web - Detailed Inspection                                                                                                                                  | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533502                     |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                  | NDI Type         | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
|---------------|------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------------|------------|------------|
|               |                                                                                                                              |                  | Initial             | Repeat             |            |            |
| CTS10         | Frame 31 - Lower fitting, inner flange and web<br><br>Frame 31 Lower Fittings Inner Flange and Web - Detailed Inspection     | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533503     |
| CTS11         | Frame 32 - Lower fitting, inner flange and web<br><br>Frame 32 Lower Fittings Inner Flange and Web - Detailed Inspection     | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533504     |
| CTS12         | Frame 33 - Lower fitting, inner flange and web<br><br>Frame 33 Lower Fittings Inner Flange and Web - Detailed Inspection     | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533505     |
| CTS13         | Frame 29 - Upper fitting, fastener on the inner flange<br><br>Frame 29 Upper Fitting Inner Flange Fasteners - NDT Inspection | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533510     |
| CTS14         | Frame 30 - Upper fitting, fastener on the inner flange<br><br>Frame 30 Upper Fitting Inner Flange Fasteners - NDT Inspection | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533511     |
| CTS15         | Frame 31 - Upper fitting, fastener on the inner flange<br><br>Frame 31 Upper Fitting Inner Flange Fasteners - NDT Inspection | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-35-00   | 533512     |

| ALS Number | Description<br><br>Aircraft Maintenance Manual Procedure                                                                                                                          | NDI Type            | Inspection Interval |                    | ATA Ref  | CMP Ref |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|--------------------|----------|---------|
|            |                                                                                                                                                                                   |                     | Initial             | Repeat             |          |         |
| CTS16      | Frame 32 - Upper fitting, fastener on the inner flange<br><br>Frame 32 Upper Fitting Inner Flange Fasteners - NDT Inspection                                                      | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533513  |
| CTS17      | Frame 33 - Upper fitting, fastener on the inner flange<br><br>Frame 33 Upper Fitting Inner Flange Fasteners - NDT Inspection                                                      | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533514  |
| CTS18.1    | All fasteners on main fitting lower part, attachment to rear spar<br><br>Frame 34 Main Fitting Lower Part to Rear Spar Attachment - NDT Inspection                                | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533508  |
| CTS18.2    | Inner flange of the main fitting upper part<br><br>Frame 34 Main Fitting Upper Inner Flange - NDT Inspection                                                                      | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-35-00 | 533509  |
| CTS19      | All fasteners from the outer side of the cabin<br><br>Upper Web LBL 872 / RBL 872 - Detailed Inspection                                                                           | Visual              | 10000 flight cycles | 5000 flight cycles | 53-36-00 | 533601  |
| CTS20      | All fastener holes along lower skin / rib BL 0.0 and upper skin / rib BL 0.0 attachments<br><br>Lower Skin / Rib BL 0 and Upper Skin / Rib BL 0 Attachments - Detailed Inspection | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 53-34-00 | 533404  |

| ALS Number | Description<br><hr/> Aircraft Maintenance Manual Procedure                                                                                                                                      | NDI Type         | Inspection Interval |                    | ATA Ref  | CMP Ref          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------------|----------|------------------|
|            |                                                                                                                                                                                                 |                  | Initial             | Repeat             |          |                  |
| CTS21      | All fastener holes along lower skin / rib BL 330.2 and upper skin / rib BL 330.2 attachments<br><hr/> Lower Skin / Rib BL 330.2 and Upper Skin / Rib BL 330.2 Attachments - Detailed Inspection | Visual Borescope | 10000 flight cycles | 5000 flight cycles | 53-34-00 | 533405           |
| F-AFT 2.1  | Area around bolt holes with bushings at forward engine pickup fittings<br><hr/> Forward Engine Beam - Engine Pickup Fitting - Detailed Inspection                                               | Visual           | 10000 flight cycles | 5000 flight cycles | 53-57-00 | 535721<br>535722 |
| F-AFT 2.2  | Upper channel - Front and rear brackets<br><hr/> Forward Engine Beam - Engine Pickup Fitting - NDT Inspection                                                                                   | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-57-00 | 535701<br>535702 |
| F-AFT 3.1  | Engine support frame at FS 502 (12765.9 mm) - Top splice<br><hr/> Frame 49 FS 502 (12765.9 mm) Upper Part - NDT Inspection                                                                      | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-57-00 | 535703           |
| F-AFT 3.2  | All flanges and webs above the forward engine beam<br><hr/> Frame 49 FS 502 (12765.9 mm) Upper Part - Detailed Inspection                                                                       | Visual           | 10000 flight cycles | 5000 flight cycles | 53-57-00 | 535723           |
| F-AFT 4    | Upper double lug of pickup fitting<br><hr/> Aft Engine Beam - Engine Pickup Fitting - NDT Inspection                                                                                            | HFEC             | 10000 flight cycles | 5000 flight cycles | 53-57-00 | 535705<br>535706 |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                          | NDI Type   | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|               |                                                                                                                                                                                                      |            | Initial             | Repeat             |            |            |
| F-AFT 5       | All flanges, webs and top splice above aft engine beam.<br><br>Frame 51 FS 532 (13528.6 mm) Upper Part - Detailed Inspection                                                                         | Visual     | 10000 flight cycles | 5000 flight cycles | 53-57-00   | 535707     |
| F-AFT 6       | Bolt attachments in forward pickup fitting with vertical stabilizer (lug holes). Lug roots of the forward pickup fitting<br><br>Frame 54 Vertical Stabilizer Forward Pickup Fitting - NDT Inspection | HFEC       | 10000 flight cycles | 5000 flight cycles | 53-66-00   | 536601     |
| F-AFT 7.1     | Skin / Frame 56 connecting fasteners on the left (thru 5L stringer) and right (thru 5R stringer) sides<br><br>Frame 56 Empennage Aft Pickup Fitting - NDT Inspection                                 | HFEC       | 10000 flight cycles | 5000 flight cycles | 53-66-00   | 536602     |
| F-AFT 7.2     | Outer lugs at Z = 85.000 at HS attachment<br><br>Frame 56 FS 620 (15770.8 mm) - Lug at Z = 85.000 at Horizontal Stabilizer Attachment - NDT Inspection                                               | Ultrasonic | 10000 flight cycles | 5000 flight cycles | 53-66-00   | 536603     |
| F-AFT 7.3     | Vertical Stabilizer pick-up fitting lug hole and root.<br><br>Vertical Stabilizer Pickup Fitting Lug - NDT Inspection                                                                                | HFEC       | 10000 flight cycles | 5000 flight cycles | 55-30-00   | 553014     |

| ALS<br>Number           | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
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|                         |                                                                                                                                                                                            |          | Initial             | Repeat             |            |                  |
| F-AFT 8                 | Forward engine beam - upper / lower flanges and outer / inner straps.<br><br>Forward Engine Beam - Upper / Lower Flanges and Outer / Inner Straps - NDT Inspection                         | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-57-00   | 535717<br>535718 |
| F-AFT 9                 | Aft engine beam - upper / lower flanges and outer / inner straps.<br><br>Aft Engine Beam - Upper / Lower Flanges and Outer / Inner Straps - NDT Inspection                                 | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-57-00   | 535719<br>535720 |
| FF1.1                   | Cockpit lower sill - Outer / inner flanges<br><br>Cockpit Lower Sill Outer and Inner Flanges - NDT Inspection                                                                              | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531702           |
| FF1.3<br>FF1.4<br>FF1.5 | Lower sill connection to center post, aft post, corner post and forward pressure bulkhead<br><br>Cockpit Lower Sill Connection to Windshield Center, Corner and Aft Posts - NDT Inspection | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531710           |
| FF2.1                   | Cockpit upper sill - Outer / inner flanges<br><br>Cockpit Upper Sill Outer and Inner Flanges - NDT Inspection                                                                              | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531711           |

| ALS<br>Number                    | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                                                     | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|                                  |                                                                                                                                                                                                                                                                                                                 |          | Initial             | Repeat             |            |            |
| FF2.3<br>FF2.4<br>FF2.5          | Upper sill connection to center, corner and aft posts<br><br>Cockpit Upper Sill Connection to Windshield Center, Corner and Aft Posts - NDT Inspection                                                                                                                                                          | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531703     |
| FF3.1<br>FF3.2<br>FF3.3          | Center post to lower sill, upper sill and outer / inner flanges<br><br>Cockpit Center Post Connections - NDT Inspection                                                                                                                                                                                         | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531704     |
| FF4.1<br>FF4.2<br>FF4.3          | Corner post to upper sill, lower sill and outer / inner flanges<br><br>Cockpit Corner Windshield Posts Connections - NDT Inspection                                                                                                                                                                             | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531705     |
| FF5.1<br>FF5.2<br>FF5.3          | Aft post to upper sill, lower sill and outer / inner flanges<br><br>Cockpit Aft Post Connections - NDT Inspection                                                                                                                                                                                               | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531706     |
| FF6.1<br>FF6.2<br>FF6.3<br>FF6.4 | Vertical stiffeners without flange (BL $\pm 295$ , $\pm 496$ , $\pm 680$ ). Vertical stiffeners with flange (BL $\pm 556$ ). Horizontal stiffeners BL -480 at ring. Circumferential outer flange (aft side). Forward pressure bulkhead - Web cutouts.<br><br>Cockpit Forward Pressure Bulkhead - NDT Inspection | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531707     |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                      | NDI Type          | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|               |                                                                                                                                                                                                                                                  |                   | Initial             | Repeat             |            |            |
| FF7.1         | NLG trunnion fitting hole area. Fittings web for cracks at fastener holes.<br><br>Nose Landing Gear Backup Structure<br>Nose Landing Gear Trunnion Fitting - NDT Inspection<br><br><b>NOTE:</b> Ultrasonic bushing area. HFEC uncovered surface. | HFEC / Ultrasonic | 10000 flight cycles | 5000 flight cycles | 32-25-01   | 322507     |
| FF7.2         | NLG brace fitting hole area. Fittings web for cracks at fastener holes<br><br>Nose Landing Gear Backup Structure<br>Nose Landing Gear Brace Fitting - NDT Inspection<br><br><b>NOTE:</b> Ultrasonic bushing area. HFEC uncovered surface.        | HFEC / Ultrasonic | 10000 flight cycles | 5000 flight cycles | 32-25-02   | 322508     |
| FF7.3         | Beam web. Fittings web for cracks at fastener holes<br><br>Nose Landing Gear Backup Structure<br>Nose Landing Gear Beam - Detailed Inspection                                                                                                    | Visual            | 10000 flight cycles | 5000 flight cycles | 32-25-02   | 322509     |
| FF7.5         | End pad around tension bolts<br><br>Forward Pressure Bulkhead at Lower Longeron End Pad Connection - NDT Inspection                                                                                                                              | HFEC              | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531708     |

| ALS<br>Number  | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                                                                                           | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|                |                                                                                                                                                                                                                                                                                                                                                       |          | Initial             | Repeat             |            |            |
| FF8.1          | Inside cabin: Upper longeron, outer flange, around fasteners. Outside cabin: Skin around fastener holes<br><br>Forward Cabin Upper Longeron to J-beam Skin and Fastener Connection FS 178 - FS 282 (4518 - 7172 mm) - NDT Inspection                                                                                                                  | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-20-00   | 532001     |
| FF8.2          | Inside cabin: Left side upper longeron, its splices to forward and aft fittings. Forward fitting FS 3342 - 3549 left side, aft fitting FS 3549 left side. Outside cabin: Skin attachments to upper longeron and fittings<br><br>Left Upper Longeron J-beam Splices to Forward and Aft Fittings from FS 139 - FS 169 (3549 - 4638 mm) - NDT Inspection | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-20-00   | 532002     |
| FF8.3          | Inside cabin: Upper longeron right side, splices at FS 3549 right side. Outside cabin: Skin attachments to upper longeron and fittings<br><br>Right Upper Longeron J-beam Splices at FS 139 (3549 mm) - NDT Inspection                                                                                                                                | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-20-00   | 532003     |
| FF9.1<br>FF9.2 | Upper longeron attachment to splice angles, area around fastener holes and longeron edge.<br><br>Upper Longeron J-beam Forward Splice Attachment FS 183 (4638 mm) - NDT Inspection                                                                                                                                                                    | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-20-00   | 532004     |

| ALS<br>Number        | Description                                                                                                                                                                                            | NDI Type  | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|                      | Aircraft Maintenance Manual<br>Procedure                                                                                                                                                               |           | Initial             | Repeat             |            |            |
| FF10.1               | Outside cabin: Window frame inner flange, 15 - 20 degrees below middle of cutout circle. Skin at cutout radius and attachment to frame<br><br>Cabin Window Frame and Skin Cutout - Detailed Inspection | Visual    | 10000 flight cycles | 5000 flight cycles | 53-27-00   | 532701     |
| FF11.1               | Fuselage side skin cutout edges (left and right).<br><br>Side Skin Cutouts, FS 178 - FS 282 (4518 - 7172 mm) - Detailed Inspection                                                                     | Visual    | 10000 flight cycles | 5000 flight cycles | 53-21-00   | 532115     |
| FF12.1               | Upper and lower corners of skin cutout and surrounding framing elements - Cracks at fastener holes and cutout edge<br><br>Main Entrance Door Skin Cutout and Structure - Detailed Inspection           | Visual    | 10000 flight cycles | 5000 flight cycles | 52-11-00   | 521107     |
| FF12.2.1<br>FF12.2.2 | Main entrance door lower stops.<br><br>Main Entrance Door Lower Door Stops - NDT Inspection                                                                                                            | Penetrant | 10000 flight cycles | 2500 flight cycles | 52-11-00   | 521108     |
| FF12.2.3             | Backup fitting attachment to outer skin<br><br>Main Entrance Door Backup Fitting Attachment - Detailed Inspection                                                                                      | Visual    | 10000 flight cycles | 2500 flight cycles | 52-11-00   | 521112     |
| FF12.2.4             | Cabin door skin around edge of door handle cutout<br><br>Main Entrance Door Handle Cutout - Detailed Inspection                                                                                        | Visual    | 10000 flight cycles | 5000 flight cycles | 52-11-00   | 521113     |

| ALS<br>Number                        | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                                | NDI Type | Inspection Interval    |                    | ATA<br>Ref | CMP<br>Ref |
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|                                      |                                                                                                                                                                                                                                                                                            |          | Initial                | Repeat             |            |            |
| FF12.2.5                             | Inner flange of Z-beam lateral assembly<br><br>Main Entrance Door Assembly Z-beam<br>Inner Flange - Detailed Inspection                                                                                                                                                                    | Visual   | 10000 flight<br>cycles | 5000 flight cycles | 52-11-00   | 521109     |
| FF13.1<br>FF13.2<br>FF13.3<br>FF13.4 | Frame inner flange at min radius (left /<br>right). Upper segment inner flange and<br>area around open holes. Door frame web<br>cutouts (left / right)<br><br>Main Entrance Doorframe Structure FS<br>139 (3549 mm) - NDT Inspection                                                       | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 52-11-01   | 521110     |
| FF14.1<br>FF14.2<br>FF14.3<br>FF14.4 | Frame inner flange at min radius (left /<br>right). Frame inner flange with holes for<br>seat track (right). Upper segment inner<br>flange, area around open holes. Door<br>frame web cutouts (left / right)<br><br>Main Entrance Doorframe Structure FS<br>168 (4285 mm) - NDT Inspection | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 52-11-01   | 521111     |
| FF15                                 | Nose outer skin at access panels cutout<br>corners and fastener holes along the<br>rows of attachment to forward pressure<br>bulkhead, nose landing gear beam, (left /<br>right), forward side longerons<br><br>Nose Landing Gear Bay - Lower Skin<br>Cutouts - NDT Inspection             | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-00-00   | 530015     |
| FF16.1.1<br>FF16.1.2                 | Cockpit center lower frames FS 81 - FS<br>131 (2073 - 3342 mm) cutout radius and<br>outer flange fillet radius.<br><br>Cockpit Center Lower Frames FS 81 - FS<br>131 (2073 - 3342 mm) - NDT Inspection                                                                                     | HFEC     | 10000 flight<br>cycles | 5000 flight cycles | 53-12-00   | 531701     |

| ALS<br>Number                                | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                                                                       | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|                                              |                                                                                                                                                                                                                                                                                                                                   |          | Initial             | Repeat             |            |            |
| FF16.2.1<br>FF16.2.2<br>FF16.2.3<br>FF16.2.4 | Center lower frames STA 4757 - 6872 cutout radius, outer flange fillet radius, intermediate flange at nutplate attachments and attachments to side frame, longeron and all intermediate splice elements for cracks around the fasteners holes.<br><br>Cabin Center Lower Frames FS 187 - FS 270 (4757 - 6872 mm) - NDT Inspection | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-22-00   | 532201     |
| FF17.1<br>FF17.2                             | Side frames FS 81 - FS 131 (2073 - 3342 mm) inner flange and web, splice between side frame and lower longeron and lower frame.<br><br>Cockpit Side Frames FS 81 - FS 131 (2073 - 3342 mm) - NDT Inspection                                                                                                                       | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-12-00   | 531712     |
| FF17.3.1<br>FF17.3.2<br>FF17.3.3             | Canopy frames attachments to center post, upper sill and open holes<br><br>Cockpit Canopy Frames - NDT Inspection                                                                                                                                                                                                                 | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-17-00   | 531709     |
| FF18.1                                       | Cabin frame web open holes between FS 187 - FS 270 (4757 - 6872 mm).<br><br>Cabin Frame Web FS 187 - FS 270 (4757 - 6872 mm) - Detailed Inspection                                                                                                                                                                                | Visual   | 10000 flight cycles | 5000 flight cycles | 53-22-00   | 532202     |
| FF18.2                                       | Cabin inner frame splice at upper longeron (left / right) between FS 187 - FS 270 (4757 - 6872 mm).<br><br>Cabin Frame Splice at Upper Longeron FS 224 (5695 mm) - NDT Inspection                                                                                                                                                 | HFEC     | 10000 flight cycles | 5000 flight cycles | 53-22-00   | 532203     |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                               | NDI Type            | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|               |                                                                                                                                                                                           |                     | Initial             | Repeat             |            |            |
| Fuel_T 1.1    | Lugs and integral ribs. Fitting web for cracks at fastener holes<br><br>Main Landing Gear Brace Fitting - NDT Inspection<br><b>NOTE:</b> Ultrasonic bushing area. HFEC uncovered surface. | HFEC / Ultrasonic   | 10000 flight cycles | 5000 flight cycles | 53-50-00   | 532005     |
| Fuel_T 1.2    | All lugs on center Frame 35<br><br>Main Landing Gear Bay Frame 35 - NDT Inspection                                                                                                        | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-50-00   | 532006     |
| Fuel_T 2.1    | Drain hole and drain fitting attachment<br><br>Fuel Tank Area Drain Hole and Drain Fitting Attachment - NDT Inspection                                                                    | HFEC                | 10000 flight cycles | 5000 flight cycles | 53-51-00   | 535101     |
| Fuel_T 2.2    | All fasteners along upper longeron attachments<br><br>Fuel Tank Area Upper Longeron Attachments - Detailed Inspection                                                                     | Visual              | 10000 flight cycles | 5000 flight cycles | 53-51-00   | 535102     |
| Fuel_T 2.3    | Frame 36 flange to web outer radius<br><br>Fuel T2.3 Fuel Tank Area Frame 36 to Web Outer Radius - Detailed Inspection<br><b>NOTE:</b> Visual with borescope on the inside.               | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 53-51-00   | 535103     |
| T1            | Overall vertical stabilizer skin and fasteners attachments<br><br>Vertical Stabilizer Skin - Detailed Inspection                                                                          | Visual              | 10000 flight cycles | 5000 flight cycles | 55-30-00   | 553011     |

| ALS<br>Number | Description                                                                                                                                                                                    | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|               | Aircraft Maintenance Manual<br>Procedure                                                                                                                                                       |          | Initial             | Repeat             |            |            |
| T2            | Lugs of the vertical stabilizer aft attachment fitting, lug hole and root<br><br>Vertical Stabilizer Aft Attachment - NDT Inspection                                                           | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-30-00   | 553012     |
| T3            | Lugs of the vertical stabilizer forward attachment fitting, lug hole, lug root and fastener hole<br><br>Vertical Stabilizer Forward Attachment - NDT Inspection                                | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-30-00   | 553013     |
| T4            | Upper skin area around the fastener holes at front spar attachment spanwise from Rib 14 - Rib 23<br><br>Horizontal Stabilizer Front Spar and Upper Skin Attachments at Rib 14 - NDT Inspection | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-10-00   | 551011     |
|               | Upper skin area around the fastener holes along front spar attachment from Rib 23 to tip<br><br>Horizontal Stabilizer Front Spar and Upper Skin from Rib 23 to Tip - Detailed Inspection       | Visual   | 10000 flight cycles | 5000 flight cycles | 55-10-00   | 551017     |
| T5.1          | Horizontal stabilizer aft spar splice fitting outer lugs around lug hole and corner radii.<br><br>Horizontal Stabilizer Aft Splice Fitting - NDT Inspection                                    | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-15-00   | 551501     |

| ALS Number | Description<br><hr/> Aircraft Maintenance Manual Procedure                                                                                                                                                                                                                                                                               | NDI Type      | Inspection Interval |                    | ATA Ref  | CMP Ref |
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|            |                                                                                                                                                                                                                                                                                                                                          |               | Initial             | Repeat             |          |         |
| T6.1       | Horizontal stabilizers rear spar and upper skin aft attachment between ribs 14- 23 and area around fastener holes.<br><hr/> Horizontal Stabilizer Rear Spar and Upper Skin Aft Attachment Between Ribs 14 - 23 - Visual / NDT Inspection                                                                                                 | HFEC / Visual | 10000 flight cycles | 5000 flight cycles | 55-10-00 | 551013  |
| T6.1a      | Horizontal stabilizers rear spar and upper skin aft attachment between Ribs 23 to tip rib and area around fastener holes.<br><hr/> Horizontal Stabilizer Rear Spar and Upper Skin Aft Attachment from Rib 23 to Tip - Detailed Inspection                                                                                                | Visual        | 10000 flight cycles | 5000 flight cycles | 55-10-00 | 551015  |
| T6.2       | Horizontal stabilizers splice fitting area, between Ribs 14-23, at rear spar upper flange , through the upper skin around fastener holes, rear spar upper flange at trailing edge area and at rear spar web splice fitting.<br><hr/> Horizontal Stab Rear Spar Upper Flange (Splice Fitting Area) and Web, Ribs 14 - 23 - NDT Inspection | HFEC          | 10000 flight cycles | 1600 flight cycles | 55-10-00 | 551016  |
| T7.1       | Horizontal stabilizers trim actuator fitting lugs.<br><hr/> Horizontal Stabilizer Trim Actuator Fitting - NDT Inspection                                                                                                                                                                                                                 | HFEC          | 5000 flight cycles  | 5000 flight cycles | 55-15-00 | 551502  |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                 | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref |
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|               |                                                                                                                                                                                                             |          | Initial             | Repeat             |            |            |
| T7.2          | Horizontal stabilizer scissors attachment lugs and lug roots.<br><br>Horizontal Stabilizer Trim Actuator Fitting Scissors Attachment Lugs and Lug Roots - NDT Inspection                                    | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-15-00   | 551503     |
| T8            | Horizontal stabilizer scissors outer fittings.<br><br>Horizontal Stabilizer Scissors - NDT Inspection                                                                                                       | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-10-02   | 551014     |
| T9            | Elevator supporting fittings connection lugs.<br><br>Elevator Supporting Fittings - NDT Inspection                                                                                                          | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-23-00   | 552301     |
| T10           | Elevator fittings lugs.<br><br>Elevator Fittings - NDT Inspection                                                                                                                                           | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-23-00   | 552002     |
| T11           | All over connecting lugs<br><br>Elevator Trim Tab Fittings - NDT Inspection                                                                                                                                 | HFEC     | 10000 flight cycles | 5000 flight cycles | 55-23-00   | 552003     |
| T12           | Rudder fittings attachments to vertical stabilizer aft spar flanges around fastener holes.<br><br>Vertical Stabilizer Aft Spar Flanges - NDT Inspection<br><br><b>NOTE:</b> Aircraft 201 thru Aircraft 289. | HFEC     | 8000 flight cycles  | 4000 flight cycles | 55-30-00   | 553021     |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                    | NDI Type            | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
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|               |                                                                                                                                                                                                                |                     | Initial             | Repeat             |            |                  |
| T12           | Rudder fittings attachments to vertical stabilizer aft spar flanges around fastener holes.<br><br>Vertical Stabilizer Aft Spar Flanges - NDT Inspection<br><b>NOTE:</b> Aircraft 290 thru Aircraft 999.        | HFEC                | 10000 flight cycles | 5000 flight cycles | 55-30-00   | 553021           |
| W1.1.1        | Center spar to lower skin attachment fastener holes between Ribs 0 - 3.<br><br>Wing Lower Skin Center Spar / Skin Attachment - Detailed Inspection                                                             | Visual              | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571501<br>571502 |
| W1.1.2        | Front spar to lower skin attachment fastener holes between Ribs 0 - 4.<br><br>Wing Lower Skin Front Spar / Skin Attachment - Detailed Inspection                                                               | Visual              | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571503<br>571504 |
| W1.1.3        | Rib 0 to lower skin attachment fastener holes.<br><br>Wing Lower Skin to Rib 0 Attachment - Detailed Inspection                                                                                                | Visual              | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571505<br>571506 |
| W1.1.4        | Lower skin around drain valve hole and around valve attachment holes.<br><br>Wing Lower Skin Drain Valve and Valve Attachment Holes - Detailed Inspection<br><b>NOTE:</b> Visual with borescope on the inside. | Visual<br>Borescope | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571507<br>571508 |

| ALS<br>Number              | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                      | NDI Type    | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
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|                            |                                                                                                                                                                                                                                                                                  |             | Initial             | Repeat             |            |                  |
| W1.1.5                     | Lower skin longitudinal splices fastener holes between Ribs 0 - 2.<br><br>Wing Lower Skin Longitudinal Skin Splices - NDT Inspection<br><b>NOTE:</b> HFEC outside skin. LFEC inside skin.                                                                                        | HFEC / LFEC | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571509<br>571510 |
| W1.1.6                     | Lower skin longitudinal splices fastener holes at Rib 2.<br><br>Wing Lower Skin Splice at Rib 2 - Detailed Inspection                                                                                                                                                            | Visual      | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571511<br>571512 |
| W1.1.7<br>W1.1.9<br>W4.2.2 | Lower skin / front spar attachment (fastener holes) between Ribs 5 - 23.<br><br>Wing Lower Skin Front Spar / Skin Attachment - NDT Inspection<br><b>NOTE:</b> For Aircraft 201 thru Aircraft 300, 2500 flight cycles.<br>For Aircraft 301 thru Aircraft 999, 5000 flight cycles. | HFEC        | 10000 flight cycles | Note               | 57-15-00   | 571513<br>571514 |
| W1.1.8<br>W1.1.10          | Lower skin / rear spar attachment (fastener holes) between Ribs 1 - 23.<br><br>Wing Lower Skin Rear / Skin Attachment - NDT Inspection                                                                                                                                           | HFEC        | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571515<br>571516 |
| W1.2                       | Lower skin access panel cutouts between Ribs 6 - 16.<br><br>Wing Lower Skin Access Panel Cutouts - NDT Inspection                                                                                                                                                                | HFEC        | 5000 flight cycles  | 5000 flight cycles | 57-15-00   | 571517<br>571518 |

| ALS<br>Number      | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                                  | NDI Type             | Inspection Interval    |                    | ATA<br>Ref | CMP<br>Ref       |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|--------------------|------------|------------------|
|                    |                                                                                                                                                                                                                                                                              |                      | Initial                | Repeat             |            |                  |
| W1.3               | Access Panel Cutout between Ribs 2-3<br>and center to rear spars<br><br>W1.3 Wing Lower Skin Access Panel<br>Cutouts Between Rib 2 and Rib 3 - NDT<br>Inspection                                                                                                             | HFEC                 | 10000 flight<br>cycles | 5000 flight cycles | 57-15-00   | 571521<br>571522 |
| W1.3.1             | Rib 4 radius at the rear spar area<br><br>W1.3.1 Wing Lower Skin at Rib 4 -<br>Detailed Inspection<br><b>NOTE:</b> Visual with borescope on the<br>inside.                                                                                                                   | Visual<br>Borescope  | 10000 flight<br>cycles | 5000 flight cycles | 57-15-00   | 571523<br>571524 |
| W2.1<br>W2.2<br>W9 | All fasteners in inboard rear spar lower<br>flange between Ribs 1 - 14. All fasteners<br>in the rear spar splice fitting lower flange<br>(16 fasteners)<br><br>Rear Spar and Splice Lower Flange<br>Between Ribs 1 - 14 - NDT Inspection                                     | HFEC / LFEC          | 10000 flight<br>cycles | 5000 flight cycles | 57-12-00   | 571201<br>571202 |
| W2.1.2             | Wing rear spar trunnion attachment, pin<br>hole area, web and integral ribs at MLG<br>backup structure (MLG wheel well).<br><br>Wing Rear Spar Main Landing Gear<br>Trunnion Attachment - NDT Inspection<br><b>NOTE:</b> Ultrasonic bushing area. HFEC<br>uncovered surface. | HFEC /<br>Ultrasonic | 10000 flight<br>cycles | 5000 flight cycles | 57-12-00   | 571205<br>571206 |
| W3.1               | All fasteners on wing center spar / splice<br>lower flange between Rib 0 and Rib 3.<br><br>Center Spar and Splice Lower Flange -<br>NDT Inspection                                                                                                                           | LFEC                 | 10000 flight<br>cycles | 5000 flight cycles | 57-13-00   | 571301<br>571302 |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                                                                                          | NDI Type          | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|--------------------|------------|------------------|
|               |                                                                                                                                                                                                                                                                      |                   | Initial             | Repeat             |            |                  |
| W3.1.2        | Wing center spar trunnion attachment, pin hole area, web and integral ribs at MLG backup structure (MLG wheel well).<br><br>Wing Center Spar Main Landing Gear Trunnion Attachment - NDT Inspection<br><b>NOTE:</b> Ultrasonic bushing area. HFEC uncovered surface. | HFEC / Ultrasonic | 10000 flight cycles | 5000 flight cycles | 57-13-00   | 571305<br>571306 |
| W4.1<br>W4.2  | All fasteners in inboard front spar lower flange between Ribs 0 - 13<br><br>Front Spar and Splices - NDT Inspection                                                                                                                                                  | LFEC              | 10000 flight cycles | 5000 flight cycles | 57-11-00   | 571101<br>571102 |
| W4.2.1        | All cutouts in spar web between Ribs 6 - 22<br><br>Wing Front Spar Web Cutouts Between Rib 6 - Rib 22 - NDT Inspection<br><b>NOTE:</b> For Aircraft 201 thru Aircraft 288, 2500 flight cycles.<br>For Aircraft 289 thru Aircraft 999, 5000 flight cycles.            | HFEC              | 10000 flight cycles | Note               | 57-11-00   | 571107<br>571108 |
| W6.1          | All fasteners in the splice fitting lower flange between Ribs 0 - 1 (10 fasteners).<br><br>Front Spar and Splice Lower Flange at Spar / CTS - NDT Inspection                                                                                                         | HFEC              | 10000 flight cycles | 5000 flight cycles | 57-11-00   | 571103<br>571104 |
| W7            | All fasteners in the splice fitting lower flange at Rib 6 (17 fasteners).<br><br>Front Spar and Splice Flange - NDT Inspection                                                                                                                                       | HFEC              | 10000 flight cycles | 5000 flight cycles | 57-11-00   | 571105<br>571106 |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                         | NDI Type | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------|------------|------------------|
|               |                                                                                                                                                                                     |          | Initial             | Repeat             |            |                  |
| W8.1          | Wing center spar splice fitting lower flange fasteners at Rib 6 (14 fasteners).<br><br>Center Spar and Splice Fitting Lower Flange - NDT Inspection                                 | HFEC     | 10000 flight cycles | 5000 flight cycles | 57-13-00   | 571303<br>571304 |
| W10           | Wing lower skin splice at Rib 2 lower flange fasteners.<br><br>Wing Lower Skin Splice at Rib 2 - NDT Inspection                                                                     | LFEC     | 10000 flight cycles | 5000 flight cycles | 57-15-00   | 571519<br>571520 |
| W11.1         | Flap rails caps, webs and intersections.<br><br>Flaps Rail Caps, Webs and Intersections - Detailed Inspection                                                                       | Visual   | 10000 flight cycles | 5000 flight cycles | 27-50-00   | 275009<br>275010 |
| W11.2         | Fastener holes at actuator access panel and at the Ribs 10 - 11 flanges connection to intermediate panel<br><br>Flaps Fastener Holes at Actuator Access Panel - Detailed Inspection | Visual   | 10000 flight cycles | 5000 flight cycles | 27-50-00   | 275011<br>275012 |
| W11.3         | Fasteners around edge of access panel and at panel free edges between Ribs 10 - 11<br><br>Flaps Fasteners Around Edge of Access Panel at Ribs 10 - 11 - NDT Inspection              | HFEC     | 10000 flight cycles | 5000 flight cycles | 27-50-00   | 275013<br>275014 |
| W12.1         | Rear spar flange, Rib 23 flange and internal splice plate<br><br>Winglet Attachment - NDT Inspection                                                                                | X-ray    | 10000 flight cycles | 5000 flight cycles | 57-32-00   | 573201<br>573202 |

| ALS<br>Number | Description<br><br>Aircraft Maintenance Manual<br>Procedure                                                                                                                                          | NDI Type                       | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|--------------------|------------|------------------|
|               |                                                                                                                                                                                                      |                                | Initial             | Repeat             |            |                  |
| W12.2         | Lower skin at winglet attachment.<br><br>Winglet Attachment Lower Skin - Detailed Inspection                                                                                                         | Visual                         | 10000 flight cycles | 5000 flight cycles | 57-32-00   | 573203<br>573204 |
| W13.1         | All slat spar / skin and de-icing cutout fasteners.<br><br>Slat Spar / Skin and De-Icing Cutout Fasteners - Detailed Inspection                                                                      | Visual                         | 10000 flight cycles | 5000 flight cycles | 27-80-00   | 278007<br>278008 |
| W13.2         | Slat rails, caps, webs and the intersection between them<br><br>Slats and Slat Rails - Detailed Inspection                                                                                           | Visual                         | 10000 flight cycles | 5000 flight cycles | 27-80-00   | 278009<br>278010 |
| W15.1         | Aileron main fitting, actuator lugs, hinge holes, actuator and hinge pins, fitting flanges attachment to composite structure aileron<br><br>Aileron Main Fitting - Detailed Inspection               | Visual                         | 10000 flight cycles | 5000 flight cycles | 27-10-00   | 271007<br>271008 |
| W15.2         | Aileron external structure.<br><br>Aileron External Structure - Detailed / NDT Inspection<br><br><b>NOTE:</b> Areas that can not be effectively inspected by US method will be inspected by tapping. | Ultrasonic / Visual / Tap Test | 10000 flight cycles | 5000 flight cycles | 27-10-00   | 271009<br>271010 |

| ALS<br>Number | Description<br><hr/> Aircraft Maintenance Manual<br>Procedure                                                                                                      | NDI Type      | Inspection Interval |                    | ATA<br>Ref | CMP<br>Ref       |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|--------------------|------------|------------------|
|               |                                                                                                                                                                    |               | Initial             | Repeat             |            |                  |
| W15.3         | <p>Actuator bracket, lug roots and holes</p> <hr/> <p>Aileron Actuator Bracket - Visual / NDT Inspection</p> <p><b>NOTE:</b> Visual for holes. HFEC for roots.</p> | HFEC / Visual | 10000 flight cycles | 5000 flight cycles | 27-10-00   | 271011<br>271012 |

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### (2) Unpainted Aircraft

**Table 5: Unpainted Aircraft**

| PS NO.    | INSPECTION DESCRIPTION                                                                                                                                                             | INSPECTION INTERVAL                               |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| PS25.2200 | Visual inspection of external skin for finish treatment for lack of corrosion, weathering damage and abrasion (paragraph 8.3). Correct damage if found (paragraphs 10 through 14). | 1 week or 40 Flight Hour, which ever occurs first |

### (3) ALS Inspection Reporting Procedure

Reporting of inspection results is required to ensure continued airworthiness of the fleet is maintained. This procedure contains the necessary reporting information which is to be used whenever a airworthiness limitations inspection is accomplished.

**NOTE:** Inspection results, both positive and negative, are to be reported to Gulfstream Maintainability Engineering, 912-965-3153, FAX 912-965-4704. Discrepancies are to be reported within 24 hours of their findings. Complete Table 6 with inspection results. Provide a digital photograph of the discrepancy.

**Table 6: ALS Inspection Results**

| ALS NUMBER                                  |                | AIRCRAFT SERIAL NUMBER | AIRCRAFT TAIL NUMBER |
|---------------------------------------------|----------------|------------------------|----------------------|
|                                             |                |                        |                      |
| Part Number(s) [if applicable]              | Aircraft Hours | Aircraft Landings      | Date of Inspection   |
|                                             |                |                        |                      |
| Discrepancies Found                         |                |                        |                      |
| No                                          |                | Yes                    |                      |
| If yes, complete the following information: |                |                        |                      |
| Location                                    |                |                        |                      |
| FS                                          | BL             | WL                     |                      |
|                                             |                |                        |                      |
| Size                                        |                |                        |                      |
|                                             |                |                        |                      |
| Orientation                                 |                |                        |                      |
|                                             |                |                        |                      |

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### C. Safe Life Limited Components

The Safe Life Limits addresses those items that have been defined as being life limited.

See Table 7.

**Table 7: Life Limited Components**

| <b>Airworthiness Limitations Instructions</b> |                                                        |            |                      |                |                  |
|-----------------------------------------------|--------------------------------------------------------|------------|----------------------|----------------|------------------|
| <b>Part Number</b>                            | <b>Nomenclature</b>                                    | <b>Qty</b> | <b>Discard</b>       | <b>ATA Ref</b> | <b>CMP Ref</b>   |
| 2505-0300-000                                 | Main Landing Gear Strut Assembly (Left)                | 1          | 20,000 flight cycles | N/A            | 321223           |
| 2506-0300-000                                 | Main Landing Gear Strut Assembly (Right)               | 1          | 20,000 flight cycles | N/A            | 321224           |
| 2505-0100-00                                  | Main Landing Gear Shock Absorber                       | 2          | 20,000 flight cycles | N/A            | 321203<br>321204 |
| 3537-0000-000                                 | Main Landing Gear Brace Actuator (Left)                | 1          | 20,000 flight cycles | N/A            | 321403           |
| 3538-0000-000                                 | Main Landing Gear Brace Actuator (Right)               | 1          | 20,000 flight cycles | N/A            | 321404           |
| 2505-0200-000                                 | Trailing Link Assembly (Left / Right)                  | 2          | 20,000 flight cycles | N/A            | 321307<br>321308 |
| 2289-0500-000                                 | Nose Landing Gear Shock Absorber Outer Body Assembly   | 1          | 20,000 flight cycles | N/A            | 322005           |
| 2289-0100-00                                  | Nose Landing Gear Shock Absorber Sliding Tube Assembly | 1          | 20,000 flight cycles | N/A            | 322006           |
| 2291-0000-000                                 | Nose Landing Gear Brace Assembly                       | 1          | 20,000 flight cycles | N/A            | 322512           |
| 3468-0000-000                                 | Nose Landing Gear Actuator                             | 1          | 20,000 flight cycles | N/A            | 322403           |
| 3462-0000-000                                 | Steering Actuator                                      | 2          | 20,000 flight cycles | N/A            | 325212<br>325213 |
| 2292-0000-000                                 | Nose Wheel Steering Assembly                           | 1          | 20,000 flight cycles | N/A            | 325211           |
| 2289-0400-000                                 | Nose Landing Gear Inner Cylinder                       | 1          | 20,000 flight cycles | N/A            | 322007           |

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**Table 7: Life Limited Components**

| Airworthiness Limitations Instructions |                                                                                                                                                                                                                                                 |     |                    |         |         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------|---------|---------|
| Part Number                            | Nomenclature                                                                                                                                                                                                                                    | Qty | Discard            | ATA Ref | CMP Ref |
| 2247-0500-008                          | Nose Landing Gear Actuator to Nose Landing Gear Strut Attachment Pin<br><b>NOTE:</b> Aircraft beyond 5000 flight cycles, accomplish pin replacement or NDT inspection per SB 150-32-200 within 200 flight cycles following date of Revision 29. | 1   | 5200 flight cycles | N/A     | 322009  |

### D. Certification Maintenance Requirements (CMR)

#### (1) Introduction

The following presents a list of all Gulfstream 150 Certification Maintenance Requirements (CMR), based on safety analyses, performed to meet requirements of CFR / JAR 25.1529, Instructions for Continued Airworthiness and other relevant requirements and engineering judgement.

#### (2) Types

The Certification Maintenance Requirements (CMRs) are categorized into two types of CMR tasks as follows:

- (a) One star CMRs (\*) - The task and interval specified are mandatory and cannot be changed, escalated or deleted without the concurrence of the Civil Aviation Authority of Israel (CAAI).
- (b) Two star CMRs (\*\*) - The task intervals may be adjusted in accordance with an operator's approved escalation practices or an approved reliability program, but the task may not be changed or deleted without prior CAAI approval.

#### (3) Maintenance Tasks

All CMR tasks are listed in Table 8.

**NOTE:** Unless otherwise specified, task may be performed with a scheduling window as follows:

- $\pm 50$  flight hours, not to exceed the task interval  $+50$  flight hours between inspections
- $\pm 1$  calendar month, not to exceed the task interval  $+1$  calendar month between inspections
- C checks or monthly inspections may be accomplished on any day of the calendar month that they are due

Flight hours and flight cycles are tracked from first flight. C Checks and calendar items (monthly checks) are clocked from Entry Into Service (EIS) after completion of initial outfitting installation, unless EIS exceeds 12 months from Certificate of Airworthiness. If EIS exceeds 12 months from Certificate of Airworthiness, then C Checks and calendar items (monthly checks) are clocked from the aircraft Certificate of Airworthiness date plus 12 months.

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**Table 8: Certification Maintenance Requirements (CMR)**

| ATA Ref  | Description                                                                                                                                                                                                                                                                                                                                                      | Type | CMP Ref | Initial / Repeat |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|------------------|
| 21-22-01 | Ram Air Check Valve - Functional Check                                                                                                                                                                                                                                                                                                                           | **   | 212201  | 6A               |
| 21-31-00 | Cabin Altitude High Warning - Functional Check                                                                                                                                                                                                                                                                                                                   | **   | 213105  | 2A               |
| 21-31-01 | Cabin Pressure Controller Aneroid Switch - Functional Check<br>MRB Ref: 21-30-00-03, Functional Check of aneroid switch<br><b>NOTE:</b> Task is applicable for Aircraft 201 thru Aircraft 295 Pre-SB 150-21-129 only.<br>Perform at 1A following date of Revision 14, not to exceed 12 months from date of last accomplishment.                                  | **   | 213112  | 1A               |
| 21-31-04 | Safety Valve - Functional Check<br>MRB Ref: 21-30-00-02, Functional Check of the safety valve<br><b>NOTE:</b> Interval is 1A for Aircraft 201 thru Aircraft 295 Pre-SB 150-21-129. Interval is 5A for Aircraft 296 and subsequent, and Aircraft 201 thru Aircraft 295 Post SB 150-21-129.<br>Perform next due Functional Check from time of last accomplishment. | *    | 213142  | Note             |
| 24-30-00 | Load Shedding - Operational Check                                                                                                                                                                                                                                                                                                                                | **   | 243010  | 2A               |
| 27-11-01 | Aileron Input Lever Switch Circuit - Functional Check                                                                                                                                                                                                                                                                                                            | **   | 271107  | 6A               |
| 27-11-01 | Aileron Servo Actuator Pistons Differential Switch Circuit - Functional Check                                                                                                                                                                                                                                                                                    | **   | 271108  | 6A               |
| 27-11-23 | Aileron Servo Actuator Compensator Volume and Damping - Functional Check                                                                                                                                                                                                                                                                                         | *    | 271127  | 6A               |
| 28-21-00 | Refuel Switch 77Q - Functional Check                                                                                                                                                                                                                                                                                                                             | **   | 282101  | 6A               |
| 52-70-00 | Airstair Door Switch - Functional Test                                                                                                                                                                                                                                                                                                                           | **   | 521006  | 6A               |

### E. Fuel Tank System Airworthiness Limitations

#### (1) Introduction

The maintenance inspections presented below are necessary to maintain the design features required to preclude the existence or development of ignition sources within the fuel tank system throughout the operational life of the airplane. These inspections are the result of safety analysis performed to substantiate compliance with CFR / JAR 25.981 as presented in IAI Engineering Report 25G041/031584.

#### (2) Maintenance Tasks

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All Fuel Tank System Airworthiness Limitations tasks are listed in Table 9.

**NOTE:** Unless otherwise specified, task may be performed with a scheduling window as follows:

- $\pm 50$  flight hours, not to exceed the task interval +50 flight hours between inspections
- $\pm 1$  calendar month, not to exceed the task interval +1 calendar month between inspections
- C checks or monthly inspections may be accomplished on any day of the calendar month that they are due

**Table 9: Fuel Tank System Airworthiness Limitations Inspections**

| AMM<br>SEC REF | DESCRIPTION                                                                                                                                                                                              | CMP REF         | INITIAL / REPEAT |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|
| 28-10-01       | Fuselage Fuel Tank - Detailed Inspection<br><br><b>NOTE</b><br>This inspection covers harnesses and connections.                                                                                         | 281002          | 8C / 8C          |
| 28-41-01       | Fuel Quantity Measurement Computer - Detailed Inspection                                                                                                                                                 | 284104          | 8C / 8C          |
| 53-00-00       | Nose Landing Gear Wheel Well Internal - Zonal Inspection<br>MRB Ref: 53-100-03, Nose Landing Gear Wheel Well Internal - Zonal Inspection                                                                 | 530004          | 1A / 1A          |
| 53-00-00       | Main Landing Gear Wheel Well and Lower Equipment Bay - Zonal Inspection<br>MRB Ref: 53-100-10, Main Landing Gear Wheel Well and Lower Equipment Bay - Zonal Inspection                                   | 530006          | 1A / 1A          |
| 57-00-00       | Wing Leading Edge Harness - Detailed Inspection                                                                                                                                                          | 570013 / 570014 | 2C / 2C          |
| 57-00-00       | Wing Trailing Edge Harness - Detailed Inspection                                                                                                                                                         | 570015 / 570016 | 2C / 2C          |
| 57-00-00       | Wing Fuel Quantity Management System Harness - Detailed Inspection<br>MRB Ref: 53-500-EZIP-01, Detailed Inspection of FQMS harness<br><br><b>NOTE</b><br>This inspection covers FQMS harness and probes. | 570007 / 570008 | 8C / 8C          |

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| AMM<br>SEC REF | DESCRIPTION                                                                                                         | CMP REF | INITIAL / REPEAT |
|----------------|---------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 57-00-00       | CTS Wiring - Detailed Inspection<br>MRB Ref: 53-500-EZIP-02, Detailed<br>Inspection of wiring connections in<br>CTS | 570011  | 8C / 8C          |

### F. Temporary Limitation and Inspection Requirements

**Table 10: Temporary Limitation and Inspection Requirements**

| AWL<br>NO. | REPORT<br>NO.    | CMP    | DESCRIPTION                                                 | EFFECTIVITY                    | INTERVAL | TO<br>COMPLY<br>WITHIN                                                                                     | LIFE<br>LIMIT |
|------------|------------------|--------|-------------------------------------------------------------|--------------------------------|----------|------------------------------------------------------------------------------------------------------------|---------------|
| AWL-1      | SB 150-53-003    | 980030 | Fuselage reinforcement of cabin CTS                         | Aircraft 202 thru Aircraft 209 | —        | Operator's earliest convenience, not to exceed 2500 flight hours.                                          | —             |
| AWL-2      | SB 150-21-036 R1 | 980361 | Cabin Pressure Controller                                   | Aircraft 202 thru Aircraft 232 | —        | Within 7 months of release of original Service Bulletin issue or at Aircraft completion prior to delivery. | —             |
| AWL-3      | SB 150-57-030    | 980300 | Wing Lower Skin - Increase Blend Radius at Lower Wing Rib 6 | Aircraft 202 thru Aircraft 222 | —        | Operator's earliest convenience, not to exceed 1,500 total aircraft flight cycles.                         | —             |

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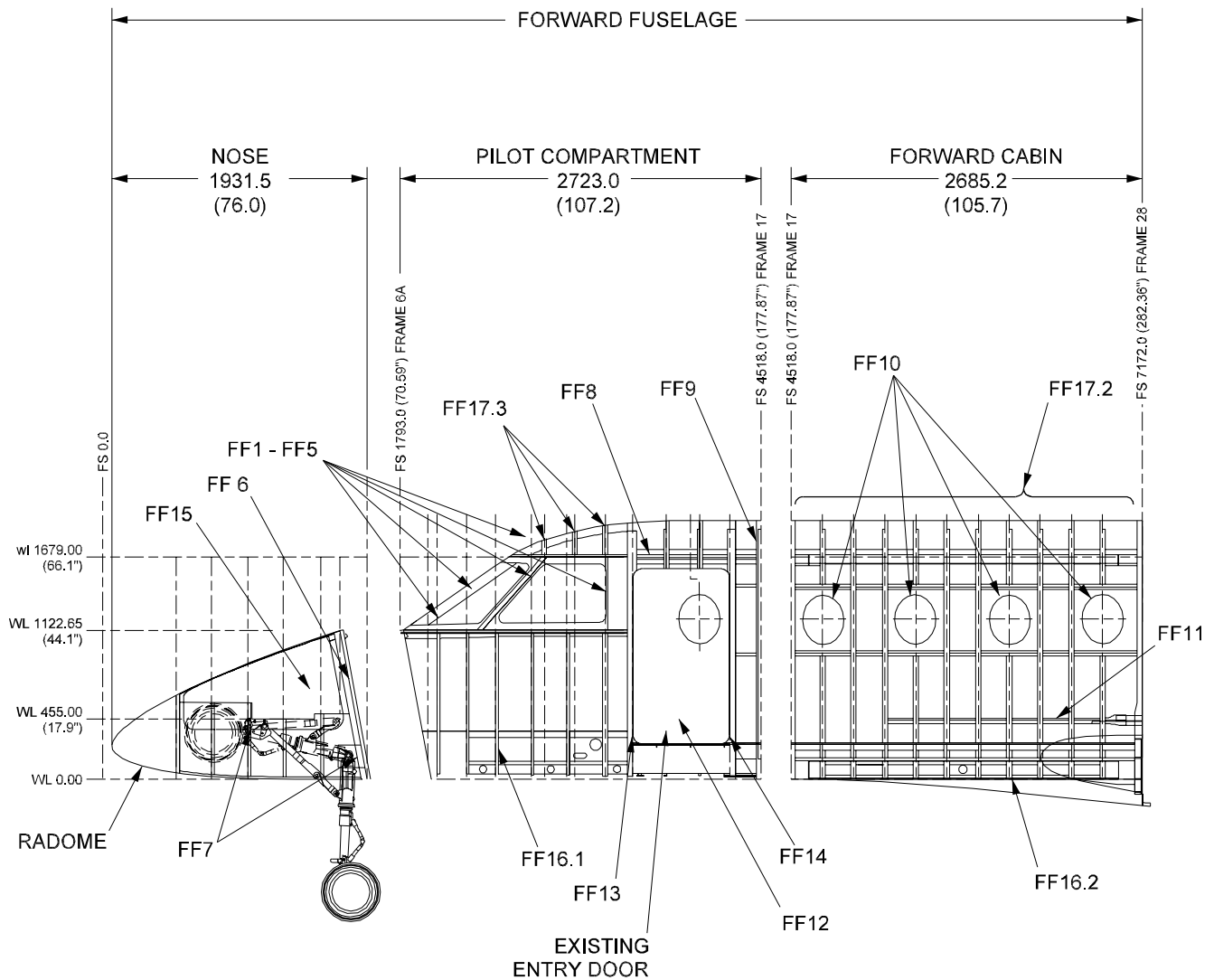
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| AWL NO. | REPORT NO.    | CMP    | DESCRIPTION                                                          | EFFECTIVITY                                                                | INTERVAL | TO COMPLY WITHIN                                                                  | LIFE LIMIT |
|---------|---------------|--------|----------------------------------------------------------------------|----------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|------------|
| AWL-4   | SB 150-57-035 | 980350 | Wings, Fairing Wing to Fuselage - Replace Integral Flange With Angle | Aircraft 202 thru Aircraft 222                                             | —        | Operator's earliest convenience not to exceed 2,500 total aircraft flight hours.  | —          |
| AWL-5   | SB 150-57-116 | 981160 | Wings, Torsion Box - Circular Access Panel - Repair                  | Aircraft 201 thru Aircraft 289 not including Aircraft 226 and Aircraft 229 | —        | Operator's earliest convenience not to exceed 4,000 total aircraft flight cycles. | —          |

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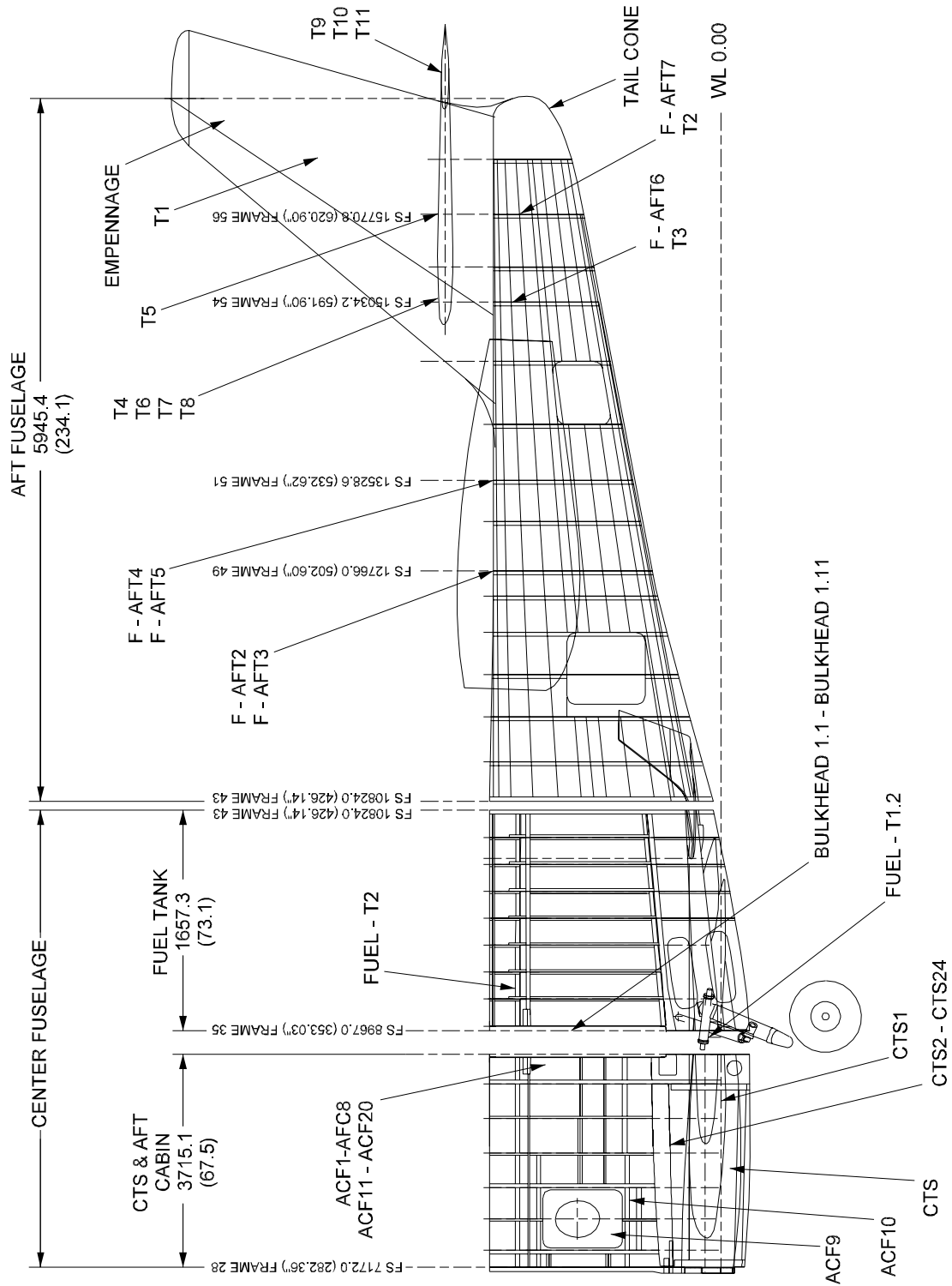
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Figure 2 (Sheet 1 of 3)

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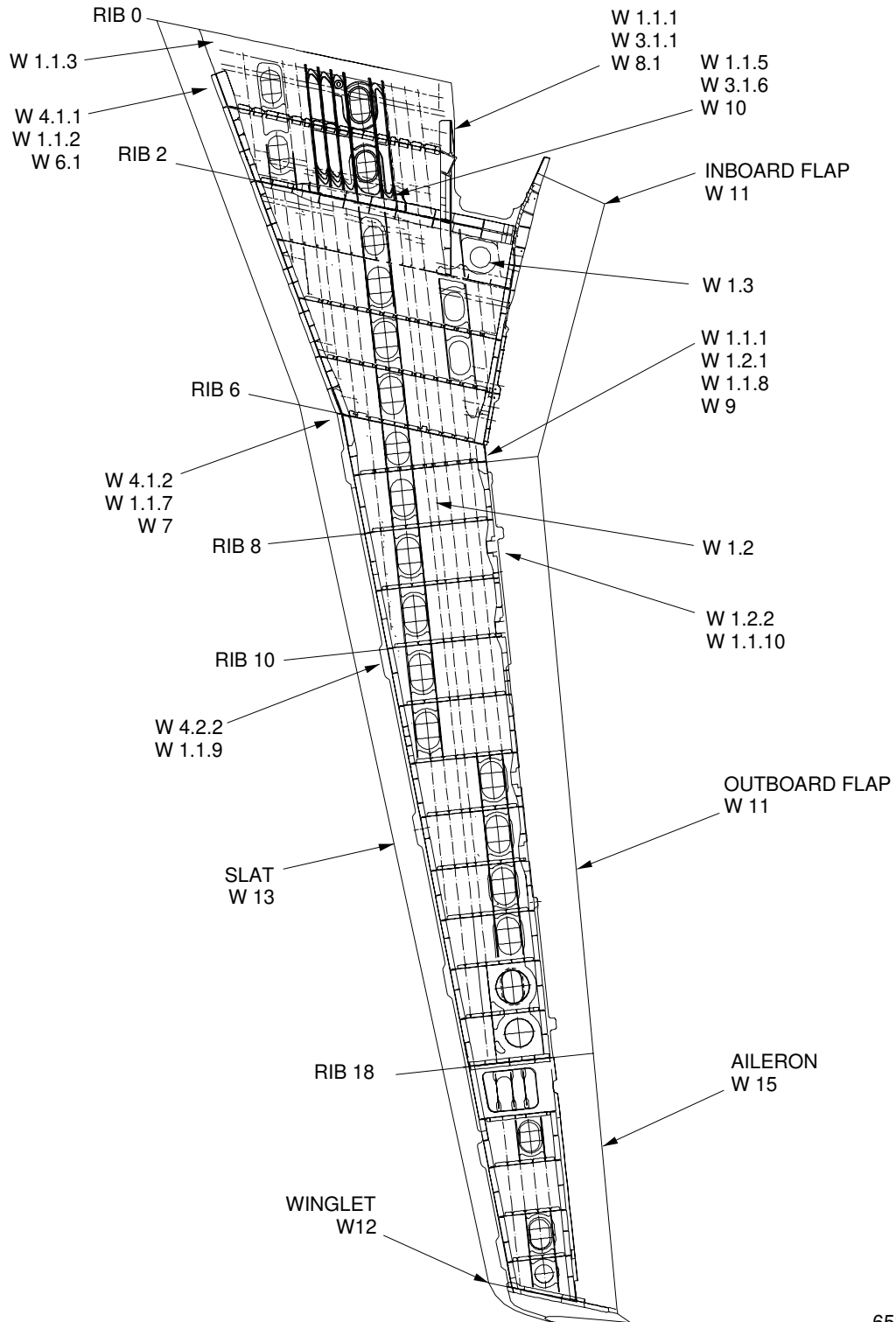
ALS Locations  
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