



**TRANSITION DUCT, ASSY, LHS, R&O
MAINTENANCE MANUAL SUPPLEMENT/
STRUCTURAL REPAIR MANUAL SUPPLEMENT**

MODELS: BELL 212, 412, 412CF & 412EP

Read all of the supplement instructions thoroughly
prior to the inspection and/or repair of this item



General Notes

1. The following information defines the instructions for continuing airworthiness and repair allowances/limitations for the item(s) referenced within this document.
2. Refer to the current revision of the applicable BHT Maintenance Manual, BHT-212-MM, BHT-412-MM, or DND Maintenance Manual, C-12-146-000/MF-001, for the chapter(s) referenced within this document.
3. Refer to the current revision of the applicable BHT Structural Repair Manual, BHT-MED-SRM, or DND Structural Repair Manual, C-12-146-000/MS-001, for the chapter(s) referenced within this document.
4. Repairs to the item(s) referenced within this document shall be accomplished in accordance with (IAW) the Allowances & Limitations specified.

Inspection Notes

1. Inspection of the item(s) referenced within this document shall be accomplished IAW the Inspection Tasks specified.
2. Refer to Chapter 5, Inspection and Component Overhaul Schedule, of the applicable Maintenance Manuals for general inspection information, inspection definitions, inspection interval requirements, inspection methods and inspection schedules, which apply in their entirety to the inspection of the item(s) referenced within this document.
3. The Inspection Tasks specified shall be accomplished IAW the applicable Scheduled Inspection Part (A or B) as established for the aircraft and/or item(s) referenced within this document.
4. General Inspections, as indicated within this document, are defined as visual, non-thorough checks.
5. Detailed Inspections, as indicated within this document, are defined as visual and thorough, searching checks.
6. Perform Daily Inspections every day, prior to flight operation.
7. Perform 25 hour/30 Day Inspections every 25 hours or every 30 days, whichever occurs first, prior to flight operation.



ALPINE AEROTECH LTD.

www.alpineaerotech.com



1260 Industrial Road, Kelowna, B.C., Canada V1Z 1G5

Phone: (250) 769-6344 Fax: (250) 769-6303

admin@alpineaerotech.com

Inspection Notes

8. Perform 100 hour/12 Month Inspections every 100 hours or every 12 months, whichever occurs first, or if damage is detected in Daily Inspections, prior to flight operation.
9. Perform 600 hour/12 Month Inspections every 600 hours or every 12 months, whichever occurs first, or if damage is detected in 25 hour/30 Day Inspections, prior to flight operation.



Inspection Tasks

Supplement to Maintenance Manuals, All, Chapter 5, Inspection and Component Overhaul Schedule

Scheduled Inspections – Part A

1. Daily Inspections, Section 5-5
Data Reference: Chapter 71, Power Plant, Engine Air Management System
 - i. Perform a General Inspection on the Transition Duct, Assy, LHS to ensure no obstructions are present.
 - ii. Perform a General Inspection on the Transition Duct, Assy, LHS for general condition.
 - iii. Perform a General Inspection on the Transition Duct, Assy, LHS for proper security.

2. 100 Hour/12 Month Inspections, Section 5-6
Data Reference: Chapter 71, Power Plant, Engine Air Management System
 - i. Perform a Detailed Inspection on all items, materials and finishes in the Transition Duct, Assy, LHS for evidence of corrosion, cracks and damage.
 - ii. Perform a Detailed Inspection on all items, materials and finishes in the Transition Duct, Assy, LHS for proper integrity and condition.
 - iii. Perform a Detailed Inspection on all items in the Transition Duct, Assy, LHS for proper security.
 - iv. Perform a Detailed Inspection on all hardware and fasteners in the Transition Duct, Assy, LHS for proper security and torque.



Inspection Tasks

Supplement to Maintenance Manuals, All, Chapter 5, Inspection and Component Overhaul Schedule

Scheduled Inspections – Part B

1. 25 Hour/30 Day Inspections, Section 5-9
Data Reference: Chapter 71, Power Plant, Engine Air Management System
 - i. Perform a General Inspection on the Transition Duct, Assy, LHS to ensure no obstructions are present.
 - ii. Perform a General Inspection on the Transition Duct, Assy, LHS for general condition.
 - iii. Perform a General Inspection on the Transition Duct, Assy, LHS for proper security.

2. 600 Hour/12 Month Inspections, Section 5-11
Data Reference: Chapter 71, Power Plant, Engine Air Management System
 - i. Perform a Detailed Inspection on all items, materials and finishes in the Transition Duct, Assy, LHS for evidence of corrosion, cracks and damage.
 - ii. Perform a Detailed Inspection on all items, materials and finishes in the Transition Duct, Assy, LHS for proper integrity and condition.
 - iii. Perform a Detailed Inspection on all items in the Transition Duct, Assy, LHS for proper security.
 - iv. Perform a Detailed Inspection on all hardware and fasteners in the Transition Duct, Assy, LHS for proper security and torque.



Allowances & Limitations

Supplement to Maintenance Manual, BHT-212-MM, Chapter 71, Power Plant,

Section 71-107, Transitions Ducts - Inspection

1. The Transition Duct, Assy, LHS shall be additionally inspected IAW the entirety of paragraphs:
 - i. 1.
 - ii. 2.
 - iii. 3.
 - iv. 4.

Section 71-108, Transitions Ducts - Repair

1. The Transition Duct, Assy, LHS may be additionally repaired IAW the entirety of paragraphs:
 - i. 1.a.
 - ii. 1.b.
 - iii. 1.c.
 - iv. 1.d. (Including View A)
 - v. 1.e. (Including View B)
 - vi. 1.h.
 - vii. 1.i.
 - viii. 2.

2. The Transition Duct, Assy, LHS shall not be additionally repaired IAW the entirety of paragraphs:
 - i. 1.f. (Including View C)
 - ii. 1.g. (Including View D)



Allowances & Limitations

Supplement to Maintenance Manual, BHT-412-MM, Chapter 71, Power Plant,

Section 71-134, Air Management System Transitions Ducts - Inspection

1. The Transition Duct, Assy, LHS shall be additionally inspected IAW the entirety of paragraphs:
 - i. 1.
 - ii. 2.
 - iii. 3.
 - iv. 4.

Section 71-135, Air Management System Transitions Ducts - Repair

1. The Transition Duct, Assy, LHS may be additionally repaired IAW the entirety of paragraphs:
 - i. 1.a.
 - ii. 1.b.
 - iii. 1.c.
 - iv. 1.d. (Including View A)
 - v. 1.e. (Including View B)
 - vi. 1.h.
 - vii. 1.i.
 - viii. 2.

2. The Transition Duct, Assy, LHS shall not be additionally repaired IAW the entirety of paragraphs:
 - i. 1.f. (Including View C)
 - ii. 1.g. (Including View D)



Allowances & Limitations

Supplement to Maintenance Manual, C-12-146-000/MF-001, Chapter 71, Power Plant,

Section 71-144, Air Management System Transitions Ducts - Inspection

1. The Transition Duct, Assy, LHS shall be additionally inspected IAW the entirety of paragraphs:
 - i. 1.
 - ii. 2.
 - iii. 3.
 - iv. 4.

Section 71-145, Air Management System Transitions Ducts - Repair

1. The Transition Duct, Assy, LHS may be additionally repaired IAW the entirety of paragraphs:
 - i. 1.a.
 - ii. 1.b.
 - iii. 1.c.
 - iv. 1.d. (Including View A)
 - v. 1.e. (Including View B)
 - vi. 1.h.
 - vii. 1.i.
 - viii. 2.

2. The Transition Duct, Assy, LHS shall not be additionally repaired IAW the entirety of paragraphs:
 - i. 1.f. (Including View C)
 - ii. 1.g. (Including View D)



Allowances & Limitations

Supplement to Structural Repair Manual, BHT-MED-SRM, Chapter 4, Fuselage Repairs,

Section 4-6-13, Engine Bypass Transition Duct

1. The Transition Duct, Assy, LHS shall not be additionally repaired IAW the entirety of section 4-6-13.

Supplement to Structural Repair Manual, C-12-146-000/MS-001, Chapter 4, Fuselage Repairs,

Section 4-20, Engine Bypass Transition Duct

1. The Transition Duct, Assy, LHS shall not be additionally repaired IAW the entirety of section 4-20.