



**OIL COOLER SUPPORT  
BRACKET, KIT  
MAINTENANCE MANUAL SUPPLEMENT**

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

Read all of the maintenance manual supplement instructions  
thoroughly prior to the inspection of this product



### **General Notes**

1. The following information defines the instructions for continuing airworthiness, conditional tasks, repair allowances and airworthiness limitations for the item(s) referenced within this document.
2. Refer to the current revision of the BHT Maintenance Manual, BHT-212-MM or BHT-412-MM, or DND Maintenance Manual, C-12-146-000/MF-001, for the chapter(s) and section(s) referenced within this document.
3. Refer to the current revision of the Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown and Installation Instructions for the replacement and/or installation of the item(s) referenced within this document.
4. Scheduled inspection for the item(s) referenced within this document shall be accomplished in accordance with (IAW) the Inspection Procedures specified.
5. Conditional tasks for the item(s) referenced within this document shall be accomplished IAW the Conditional Procedures specified.
6. Repair allowances for the item(s) referenced within this document shall be accomplished IAW the Repair Procedures specified.
7. Limitations for the item(s) referenced within this document are IAW the Airworthiness Limitations specified.
8. Alpine Aerotech Ltd. shall make any subsequent revisions of this document available upon request.
9. If changes to this document are required, Alpine Aerotech Ltd. shall revise all pages and reissue the entire document.



## **Inspection Procedures**

### **Supplement to applicable Maintenance Manual, Chapter 5, Inspection and Component Overhaul Schedule**

#### **Notes**

1. Refer to the applicable Maintenance Manual, Chapter 5-1, 5-2 & 5-3, for general information on inspections, inspection definitions, inspection intervals, inspection methods and inspection schedules.
2. General Inspections, as indicated within this document, are defined as visual, non-thorough checks.
3. Detailed Inspections, as indicated within this document, are defined as visual and thorough, searching checks.
4. Perform Daily Inspections every day, prior to flight operation. If damage is detected, perform the 100 Hour/12 Month Inspections.
5. Perform 100 Hour/12 Month Inspections every 100 hours or every 12 months, whichever occurs first, prior to flight operation. If damage is detected, refer to the Repair Procedures section below.

#### **Scheduled Inspections**

##### 1. Daily Inspections

Data Reference: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Perform a General Inspection on all items in the Oil Cooler Support Bracket, Kit for general condition.
- ii. Perform a General Inspection on all items in the Oil Cooler Support Bracket, Kit for proper security.



## Scheduled Inspections

### 2. 100 Hour/12 Month Inspections

Data Reference: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Perform a Detailed Inspection on all items, materials and finishes in the Oil Cooler Support Bracket, Kit for evidence of corrosion, cracks and damage.
- ii. Perform a Detailed Inspection on all items, materials and finishes in the Oil Cooler Support Bracket, Kit for proper integrity and condition.
- iii. Perform a Detailed Inspection on all items in the Oil Cooler Support Bracket, Kit for proper security.
- iv. Perform a Detailed Inspection on all hardware and fasteners in the Oil Cooler Support Bracket, Kit for proper security and torque.
- v. Perform a Detailed Inspection on the Shim, Assy, LHS (Items 16, 23, 30, 37 or 44 as applicable) for evidence of delamination.
- vi. Perform a Detailed Inspection on the Shim, Assy, RHS (Items 22, 29, 36, 43 or 50 as applicable) for evidence of delamination.
- vii. Perform a Detailed Inspection on the Link, Detail, Upper (Item 2) for proper freedom of movement.
- viii. Perform a Detailed Inspection on the Link, Detail, Lower (Item 3) for proper freedom of movement.



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## **Conditional Procedures**

### **Supplement to applicable Maintenance Manual, Chapter 5, Inspection and Component Overhaul Schedule**

#### **Conditional Maintenance**

1. Shim, Assy, LHS (Items 16, 23, 30, 37, or 44 as applicable). |

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Replace the Shim, Assy, LHS (Items 16, 23, 30, 37, or 44 as applicable) if any of the LHS sections of the AFT Firewall are removed and subsequently reinstalled. |

2. Shim, Assy, RHS (Items 22, 29, 36, 43 or 50 as applicable). |

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Replace the Shim, Assy, RHS (Items 22, 29, 36, 43 or 50 as applicable) if any of the RHS sections of the AFT Firewall are removed and subsequently reinstalled. |



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### **Repair Procedures**

1. Repairs to the item(s) referenced within this document are **not** permitted. Contact Alpine Aerotech Ltd. for further information if repairs are required to the item(s) referenced within this document.



## TCCA Airworthiness Limitations

This Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

Approved by: SEE STC SH05-30  
Approved by, TCCA Aircraft Certification

Date: SEE STC SH05-30

### **Supplement to applicable Maintenance Manual, Chapter 4, Airworthiness Limitations Schedule**

#### Notes

1. Refer to the applicable Maintenance Manual, Chapter 4-3, for general information on airworthiness limitations and airworthiness limitation schedules.
2. Items **not** listed in the Scheduled Airworthiness Limitations section within this document have an unlimited airworthiness life.

#### Scheduled Airworthiness Limitations

1. Shim, Assy, LHS (Item 16).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Replace the Shim, Assy, LHS (Item 16) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

2. Shim, Assy, RHS (Item 22).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- i. Replace the Shim, Assy, RHS (Item 22) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.



3. Shim, Assy, LHS (Item 23).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- ii. Replace the Shim, Assy, LHS (Item 23) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

4. Shim, Assy, RHS (Item 29).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- ii. Replace the Shim, Assy, RHS (Item 29) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

5. Shim, Assy, LHS (Item 30).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- iii. Replace the Shim, Assy, LHS (Item 30) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

6. Shim, Assy, RHS (Item 36).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- iv. Replace the Shim, Assy, RHS (Item 36) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

7. Shim, Assy, LHS (Item 37).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- iii. Replace the Shim, Assy, LHS (Item 37) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

8. Shim, Assy, RHS (Item 43).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- v. Replace the Shim, Assy, RHS (Item 43) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.



9. Shim, Assy, LHS (Item 44).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- iv. Replace the Shim, Assy, LHS (Item 44) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

10. Shim, Assy, RHS (Item 50).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- vi. Replace the Shim, Assy, RHS (Item 50) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.



**FAA Airworthiness Limitations**

This Airworthiness Limitations section is FAA approved and specifies maintenance required under Sections 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

Approved by: SEE STC SR02247NY  
LIMITATIONS AND CONDITIONS  
Approved by Manager, Aircraft  
Certification Office

Date: SEE STC SR02247NY

**Supplement to applicable Maintenance Manual,  
Chapter 4, Airworthiness Limitations Schedule**

Notes

1. Refer to the applicable Maintenance Manual, Chapter 4-3, for general information on airworthiness limitations and airworthiness limitation schedules.
2. Items **not** listed in the Scheduled Airworthiness Limitations section within this document have an unlimited airworthiness life.

**Scheduled Airworthiness Limitations**

11. Shim, Assy, LHS (Item 16).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- vii. Replace the Shim, Assy, LHS (Item 16) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

12. Shim, Assy, RHS (Item 22).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- v. Replace the Shim, Assy, RHS (Item 22) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.



13. Shim, Assy, LHS (Item 23)

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- viii. Replace the Shim, Assy, LHS (Item 23) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

14. Shim, Assy, RHS (Item 29).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- vi. Replace the Shim, Assy, RHS (Item 29) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

15. Shim, Assy, LHS (Item 30).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- ix. Replace the Shim, Assy, LHS (Item 30) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

16. Shim, Assy, RHS (Item 36).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- x. Replace the Shim, Assy, RHS (Item 36) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

17. Shim, Assy, LHS (Item 37).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- vii. Replace the Shim, Assy, LHS (Item 37) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

18. Shim, Assy, RHS (Item 43).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- xi. Replace the Shim, Assy, RHS (Item 43) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.



19. Shim, Assy, LHS (Item 44).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- viii. Replace the Shim, Assy, LHS (Item 44) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.

20. Shim, Assy, RHS (Item 50).

Data References: Oil Cooler Support Bracket, Kit Illustrated Parts Breakdown  
Oil Cooler Support Bracket, Kit Installation Instructions

- xii. Replace the Shim, Assy, RHS (Item 50) after 3000 hours or every 5 years, whichever occurs first, prior to flight operation.