

**ALERT SERVICE BULLETIN**  
REVISION NOTICE

DATE Jan 18, 2010



**TO: All Owners/Operators of Bell 212 Helicopters**

**SUBJECT: REVISION A TO ALERT SERVICE BULLETIN 212-09-133:**  
205-030-856-157/-159 ELEVATORS, ONE TIME INSPECTION OF.

Revision A to this bulletin reduces the number of affected elevators to inspect by listing some that have been inspected already. However, the main purpose of this revision is to introduce a new and simpler procedure to inspect for the correct angles. Any elevator inspected in accordance with the original release of this bulletin does not need to be inspected again.

AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOGBOOK UPON ACCOMPLISHMENT  
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

**ALERT SERVICE BULLETIN**



A Textron Company

NO. 212-09-133

DATE Sept 24, 2009

PAGE 1 of 6

DATE	Jan 18-10
REV	A

**MODEL AFFECTED:** 212

**SUBJECT:** 205-030-856-157/-159 ELEVATORS, ONE TIME INSPECTION OF.

**HELICOPTERS AFFECTED:** Model 212 helicopters with 205-030-856-157/-159 elevators, s/n A-1587 through A-1862 installed. The following elevators have been previously inspected and do not require ASB compliance.

**Serial Numbers:**

- A-1736 A-1772 A-1793 A-1810 A-1825 A-1843
- A-1751 A-1774 A-1795 A-1811 A-1827 A-1844
- A-1755 A-1775 A-1796 A-1812 A-1829 A-1845
- A-1757 A-1776 A-1797 A-1814 A-1830 A-1846
- A-1758 A-1778 A-1798 A-1815 A-1831 A-1847
- A-1759 A-1781 A-1800 A-1816 A-1832 A-1849
- A-1761 A-1786 A-1802 A-1818 A-1835 A-1856
- A-1762 A-1787 A-1804 A-1819 A-1836 A-1857
- A-1765 A-1788 A-1805 A-1821 A-1838 A-1861
- A-1768 A-1789 A-1806 A-1822 A-1839 A-1862
- A-1769 A-1790 A-1807 A-1823 A-1841
- A-1771 A-1792 A-1808 A-1824 A-1842

A

**COMPLIANCE:** Within 100 flight-hours but no later than 12 months after release of this bulletin.

**DESCRIPTION:**

There is a built-in angle difference of 3.00 +/- 0.75 degrees between the LH and RH Elevators on the aircraft. Bell Helicopter has learned that some p/n 205-030-856-157/-159 elevators were incorrectly assembled at manufacture. Due to tooling discrepancies, some elevators could have an offset exceeding the angle tolerance.

This bulletin explains how to measure the angles to detect discrepant elevators. This angle must be measured while the elevator(s) is (are) installed on the aircraft.

**APPROVAL:**

The engineering design aspects of this bulletin are FAA/DER approved.

**MANPOWER:**

Approximately 1.0 man-hour is required to complete this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

**WARRANTY:**

Owners / Operators of Bell Helicopters who comply with the instructions in of this Bulletin will be eligible to receive a one time credit towards the cost of replacement elevator part number 205-030-856-157 or 205-030-856-159.

To receive this credit:

- Comply with the instructions contained in this Bulletin no later than the applicable hours in the “compliance section” of this ASB, or before September 24, 2010.
- Purchase a replacement elevator from a Bell approved source.
- Submit an MMIR to the Bell Warranty Department referencing this ASB.

Customers who fail to comply with the instructions in this Bulletin before September 24, 2010 are not eligible for the special warranty credit listed above. There is no labor associated with this bulletin.

**MATERIAL:**

**Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
205-030-856-157	Elevator	A/R
205-030-856-159	Elevator	A/R

**SPECIAL TOOLS:**

Lucas Anglestar DP45 Digital Protractor or equivalent

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-212-IPB Illustrated Parts Breakdown  
BHT-212-MM Maintenance Manual

**PUBLICATIONS AFFECTED:**

None affected

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Prepare helicopter for maintenance.
2. Confirm any of the elevators are within serial number range by referring to its bonded and riveted dataplate near the trailing edge.
3. Remove tailboom access panel just aft of Boom Station (BS) 101.38.
4. Remove L/H Elevator as per Maintenance Manual.
5. Place digital protractor on L/H elevator horn fitting, zero protractor. Refer to Figure 1, View A.

A

-NOTE-

Digital Protractor must be located and installed on the R/H elevator exactly in the same direction and location as positioned on the L/H elevator horn fitting.

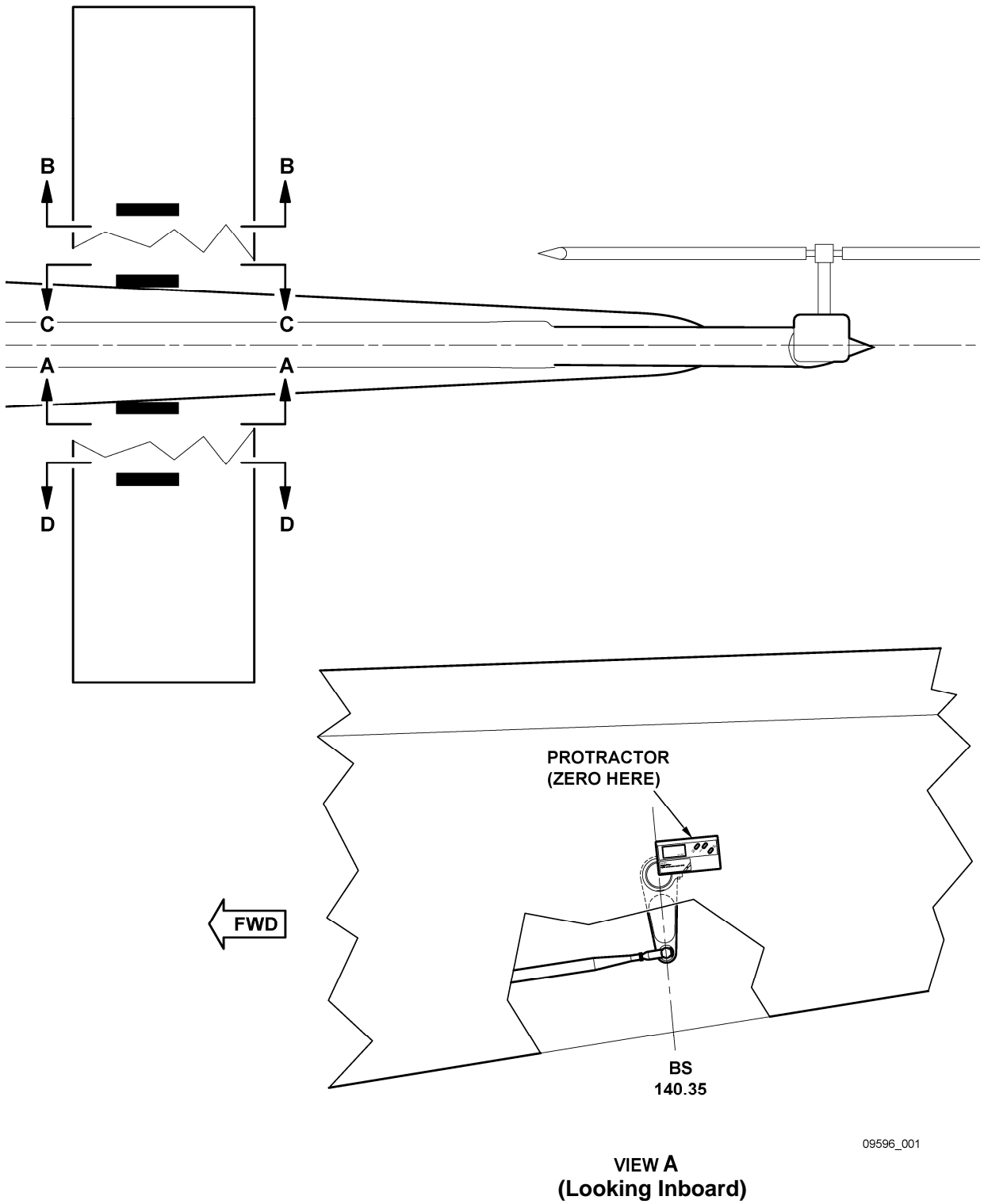
6. Move protractor to top skin of R/H elevator second rib, edge of protractor should be aligned with the 8<sup>th</sup> rivet from the leading edge of the elevator. Record relative angle as Angle "A". Refer to Figure 1, View B.
7. Install L/H Elevator as per Maintenance Manual.
8. Remove R/H Elevator as per Maintenance Manual.
9. Place digital protractor on R/H elevator horn fitting, zero protractor. Refer to Figure 1, View C.

-NOTE-

Digital Protractor must be located and installed on the L/H elevator exactly in the same direction and location as positioned on the R/H elevator horn fitting.

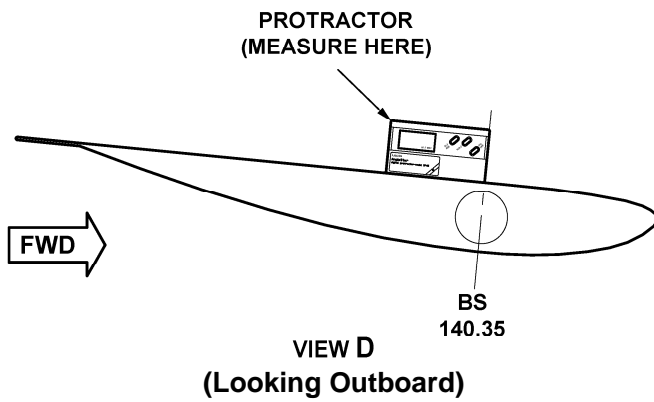
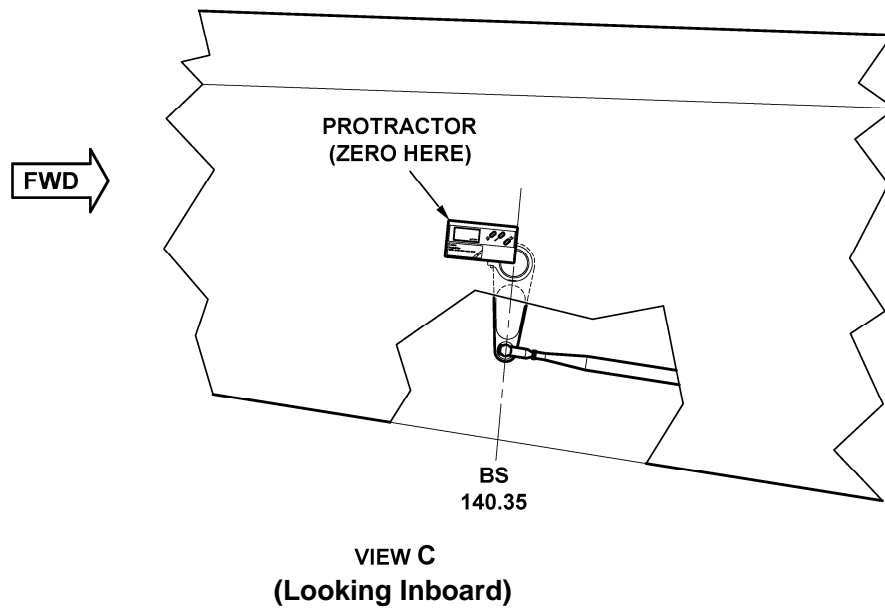
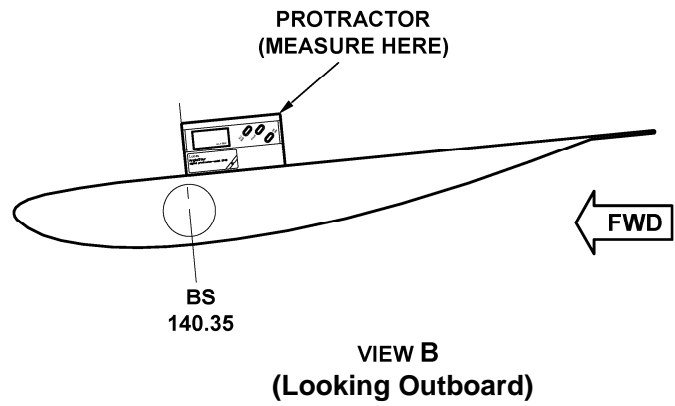
10. Move protractor to top skin of L/H elevator second rib, edge of protractor should be aligned with the 8<sup>th</sup> rivet from the leading edge of the elevator. Record relative angle as Angle "B". Refer to Figure 1, View D.
11. The correct value for Angle A is  $2.0^{\circ} \pm 0.3^{\circ}$  (nose up) and the correct value for Angle B is  $3.0^{\circ} \pm 0.75^{\circ}$  (nose down).
  - a. If Angle A is not within the allowable limit, replace the RH elevator as per Maintenance Manual within the next 100 flight-hours or before September 24, 2010.
  - b. If Angle B is not within the allowable limit, replace the LH elevator as per Maintenance Manual within the next 100 flight-hours or before September 24, 2010.
12. Make an entry in helicopter historical records indicating compliance of this bulletin.

A



**Figure 1 (Sheet 1 of 2)**  
Elevator Angle Measurement

09596\_001



A

09596\_002

Figure 1 (Sheet 2 of 2)  
Elevator Angle Measurement