



A Textron Company

ALERT SERVICE BULLETIN

505-21-25
30 August 2021

MODEL AFFECTED: 505

SUBJECT: RIGHT HAND LATERAL CENTER OF GRAVITY,
REDUCTION OF

HELICOPTERS AFFECTED: Serial numbers 65011 through 65371.

[Serial number 65372 and subsequent will have the intent of this bulletin accomplished prior to delivery.]

COMPLIANCE: Within 45 days upon receipt of this bulletin.

DESCRIPTION:

During flight testing activity with aircraft loading configurations to the extreme ends of the flight envelope, it was discovered that during specific maneuvers the potential to run out of Left Hand (LH) cyclic travel exists when the right lateral Center of Gravity (CG) is greater than 2.5 inches.

For this reason, Bell is releasing this Alert Service Bulletin (ASB) to institute a new reduced RH lateral CG limit.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering
Tel: 1-450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

MANPOWER:

Approximately 1 man-hour are required to complete this bulletin. This estimate is based on hands-on time and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or 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 Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>
BHT-505-FM-1 Rev. 7	505 Rotorcraft Flight Manual Revision 7	1 (1)
BHT-505-FM-2 Rev. 1	505 Rotorcraft Flight Manual Revision 1	1 (2)
31-026-4053J14	Decal	1 (3)

NOTES:

1. BHT-505-FM-1 Rev. 7 applicable 65011 through 65169, 65171 through 65300
2. BHT-505-FM-2 Rev. 1 applicable 65170, 65301 and subsequent.
3. The decal can be locally manufactured using lettering of white color No. 17875 on black background color No. 17038. Characters to be 14-point Spartan black font, color per AMS-STD-595. The text should be in capital letters as detailed in (Figure 1).

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>	<u>Reference *</u>
2010-06640-00	Edge Sealer	A/R (1)	C-349
2110-00010-00	Aliphatic Naphtha	A/R (1)	C-305
CCCC440	Cheesecloth, Cotton	1 Yd (1)	C-486

* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

NOTE 1: Quantity indicated is the format that the product is delivered in. Actual quantity required to accomplish the instructions in this bulletin may be less than what has been delivered.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-505-MM, Maintenance Manual
 BHT-ALL-SPM, Standard Practice Manual
 BHT-505-FM-1, 505 Rotorcraft Flight Revision 7
 BHT-505-FM-2, 505 Rotorcraft Flight Revision 1

PUBLICATIONS AFFECTED:

BHT-505-FM-1, 505 Rotorcraft Flight Manual, Revision 6
 BHT-505-FM-2, 505 Rotorcraft Flight Manual, Original 0
 BHT-505-MM, Maintenance Manual, Chapter 11

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare the helicopter for maintenance.
2. Gain access to the left side of the cockpit (Zone 220), ([DMC-505-A-06-30-00-00A-030A-A](#)).
3. Identify location on instrument panel below the Multi-Function Display (MFD) where decal 31-026-4053J14 is to be installed (Figure 1).

- (1) Thoroughly wipe the surface with a clean cloth (C-486) or equivalent dampened with aliphatic naphtha (C-305).
- (2) Install decal 31-026-4053J14 on instrument panel as shown.
 - (a) Seal the edges of the decal (C-349) (BHT-ALL-SPM, Chapter 8).

-NOTE-

Communicate to the Model 505 pilots and maintenance personnel the contents of the newly inserted Rotorcraft Flight Manual Revision.

4. Insert applicable BHT-505-FM-1 Rev. 7 or BHT-505-FM-2 Rev. 1 Rotorcraft Flight Manual Revision
5. Make an entry in the helicopter logbook and historical service records indicating compliance with this Alert Service Bulletin.

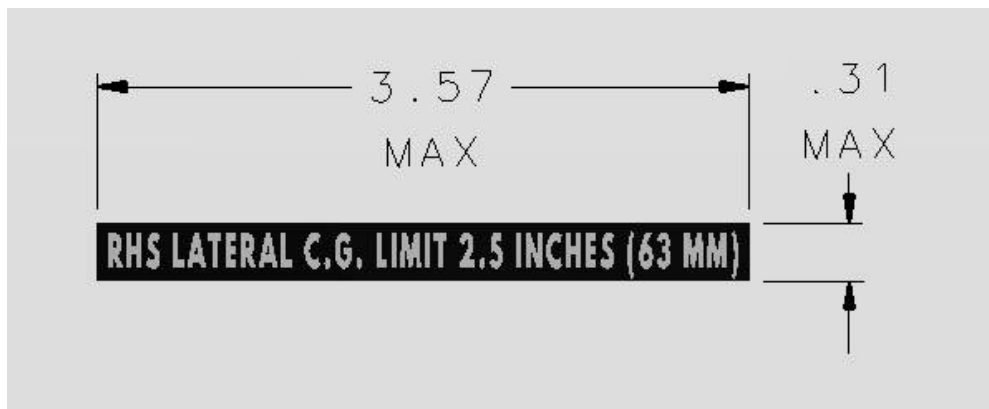
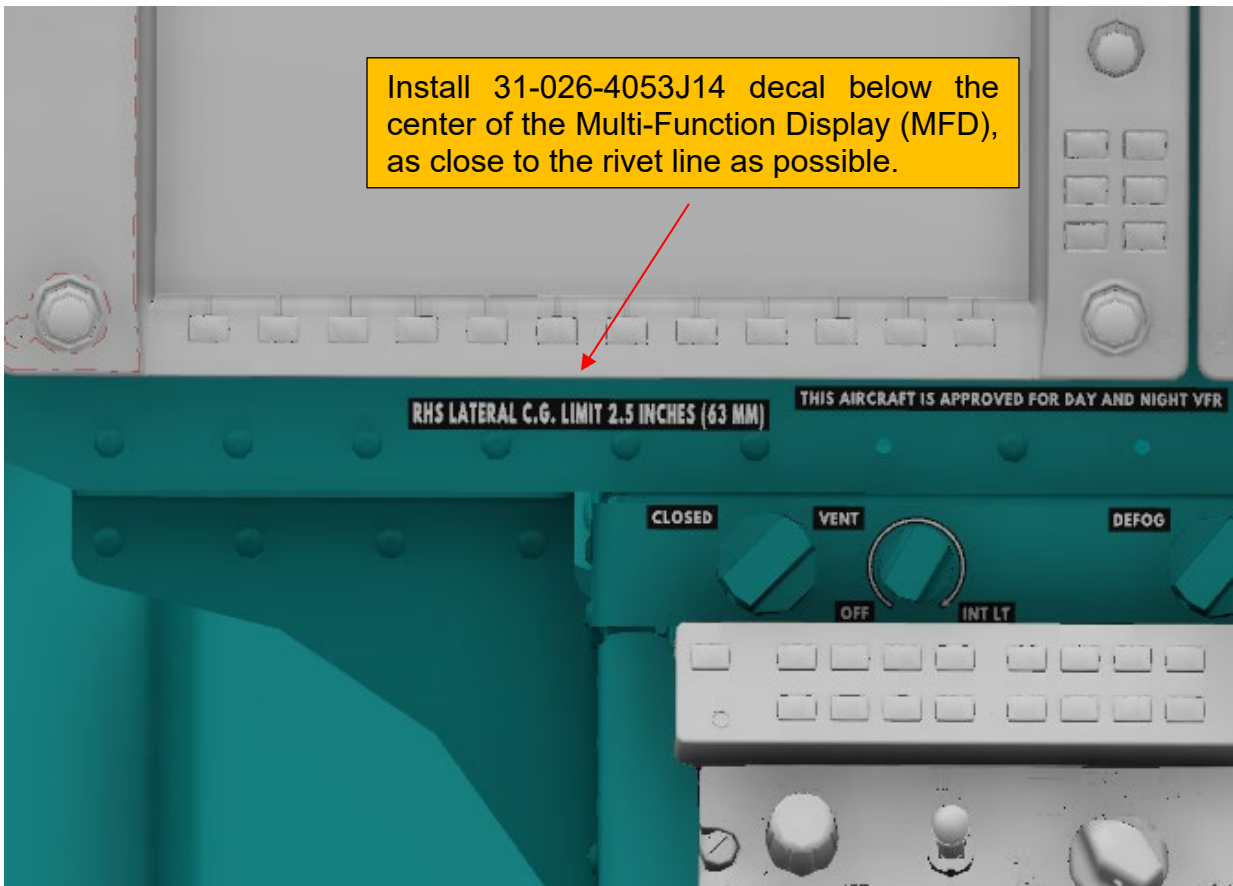


Figure 1 – Instrument Panel and Decal Details