



A Textron Company

ALERT SERVICE BULLETIN

205B-13-62
18 November 2013

MODEL AFFECTED: 205B

SUBJECT: FLIGHT CONTROLS – HYDRAULIC
SERVOACTUATOR UNDERSIZED THREAD ROOT
RADIUS

HELICOPTERS AFFECTED: Serial numbers 30066, 30166, 30188 and 30297.

COMPLIANCE: See attached bulletin.

DESCRIPTION:

The purpose of this bulletin is to achieve complete distribution of the attached vendor bulletin to the current affected model distribution list on record by Bell Helicopter.

APPROVAL:

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

CONTACT INFO:

For any questions regarding this bulletin, please contact:

WOODWARD HRT
25200 West Rye Canyon Road
Santa Clarita, California 91355
661/294-6000
Fax 661/702-5970



ALERT SERVICE BULLETIN

FLIGHT CONTROLS – HYDRAULIC SERVOACTUATOR UNDERSIZED THREAD ROOT RADIUS

1. PLANNING INFORMATION

A. Effectivity

This service bulletin applies only to hydraulic servoactuator 41000470-107 (*Bell Helicopter part number 212-076-005-111*) used on Bell Medium Helicopters aircraft with serial numbers:

| ASSY S/N | Date Ship | ASSY S/N | Date Ship | ASSY S/N | Date Ship | ASSY S/N | Date Ship | ASSY S/N | Date Ship |
|----------|-----------|----------|------------|----------|------------|----------|-----------|----------|-----------|
| HR12244H | 1/31/2012 | HR12363H | 5/4/2012 | HR12442H | 11/30/2012 | HR12460H | 1/31/2013 | HR12479H | 3/22/2013 |
| HR12245H | 2/26/2012 | HR12364H | 5/4/2012 | HR12443H | 11/30/2012 | HR12461H | 1/31/2013 | HR12480H | 3/22/2013 |
| HR12246H | 2/26/2012 | HR12365H | 5/9/2012 | HR12444H | 11/30/2012 | HR12462H | 1/31/2013 | HR12481H | 3/22/2013 |
| HR12247H | 2/26/2012 | HR12366H | 5/9/2012 | HR12445H | 11/30/2012 | HR12463H | 1/31/2013 | HR12482H | 3/27/2013 |
| HR12248H | 2/26/2012 | HR12367H | 5/9/2012 | HR12446H | 11/30/2012 | HR12464H | 1/31/2013 | HR12483H | 3/22/2013 |
| HR12249H | 2/26/2012 | HR12369H | 5/10/2012 | HR12447H | 12/26/2012 | HR12465H | 1/31/2013 | HR12484H | 3/27/2013 |
| HR12250H | 2/26/2012 | HR12370H | 5/15/2012 | HR12448H | 12/26/2012 | HR12466H | 1/31/2013 | HR12495H | 5/9/2013 |
| HR12251H | 2/26/2012 | HR12371H | 5/15/2012 | HR12449H | 12/26/2012 | HR12467H | 1/31/2013 | HR12509H | 6/25/2013 |
| HR12252H | 2/29/2012 | HR12372H | 5/16/2012 | HR12450H | 12/26/2012 | HR12468H | 2/28/2013 | HR12511H | 6/25/2013 |
| HR12355H | 3/31/2012 | HR12373H | 5/16/2012 | HR12451H | 12/26/2012 | HR12469H | 2/28/2013 | HR12515H | 6/29/2013 |
| HR12356H | 4/2/2012 | HR12375H | 5/31/2012 | HR12452H | 12/26/2012 | HR12470H | 2/28/2013 | HR12516H | 6/29/2013 |
| HR12358H | 4/2/2012 | HR12377H | 6/4/2012 | HR12453H | 12/30/2012 | HR12471H | 2/28/2013 | NN12457H | 1/31/2013 |
| HR12359H | 4/19/2012 | HR12379H | 5/31/2012 | HR12454H | 12/30/2012 | HR12473H | 2/28/2013 | NN12458H | 1/31/2013 |
| HR12361H | 5/10/2012 | HR12381H | 6/4/2012 | HR12455H | 12/30/2012 | HR12475H | 3/22/2013 | | |
| HR12362H | 8/22/2012 | HR12440H | 11/29/2012 | HR12456H | 12/30/2012 | HR12476H | 3/15/2013 | | |
| HR12362H | 5/4/2012 | HR12441H | 11/29/2012 | HR12459H | 1/31/2013 | HR12477H | 3/15/2013 | | |

B. Concurrent Requirements

Not Applicable

C. Reason

A small number of hydraulic servoactuators 41000470-107 have been discovered with undersized thread root radius on connecting cylinder (PN 41004705-101).



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D. Description

This Alert Service Bulletin instructs that all affected actuators have connecting cylinder 41004705-101 replaced in accordance with conditions stated in compliance.

If the servoactuator needs to be returned to Woodward HRT for maintenance, it should be sent to the address below:

Attn: ASB 41000470-67-06
Woodward HRT
25200 West Rye Canyon Road
Santa Clarita, CA 91355-1265

E. Compliance

Compliance with this Alert Service Bulletin shall be accomplished before 2500 flight hours or next overhaul whichever comes first.

F. Approval

This Alert Service Bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

G. Electrical Load Data

Not Changed

H. References

Component Maintenance Manual 67-31-06



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2. MATERIAL INFORMATION

A. Material – Price and Availability

All affected 41004705-101 connecting cylinders will be replaced free of charge with either 41004705-101 or RW41004705-101 when overhauled or repaired at authorized service centers or other duly authorized service facilities.

B. Industry Support Information

| Woodward Approved Licensed Repair Service Facility | POC | e-Mail | Phone |
|--|-------------------|---------------------------------|----------------------|
| Woodward HRT, Santa Clarita, California | Lisa Tanner | Lisa.Tanner@woodward.com | 1-661-702-5305 |
| AEM-UK | John Morphy | John.morphy@ametek.co.uk | 011-44-1-279-680-030 |
| Aviation Components, Australia | Glenn Chamberlain | glenn@aviationcomponents.com.au | 613-9587-5988 |
| Power Hydraulics, Canada | Corey Steinberg | csteinberg@powerhydraulics.ca | 604.746.1133 |
| Inaer, UK | Sue Grantham | SGrantham@inaer.co.uk | +44 (0) 1264 771700 |
| Jamco, Japan | Shigeru Anzai | s_anzai@jamco.co.jp | 81-422-31-6123 |
| Mecaer, Italy | Maddalena Colombo | m.colombo@mecaer.com | 39-0322-837196 |
| Motorflug, Germany | Jasmin Brandlin | Jasmin.Braendlin@motorflug.com | 49-72229-3014-32 |
| ST Aerospace, Singapore | Maran Mani | manimaran@steng.com | 65-6380-4654 |
| Helitrades, Canada | Gerald Tom | Gerry@helitradesinc.com | 613-678-3027 |
| WH Brennan, Singapore | Tan Poh Seng | PST@survitecgroup.com | 65-6549-5141 |

C. Re-identified Parts / Existing Parts Accountability

Upon completion of the ASB instructions, identify for compliance. Remove the modification plate from the 41000470-107 servo and metal-impression stamp or vibro-etch an abbreviated Alert Service Bulletin number (67-06) within the SB field of the modification plate. Woodward will provide replacement modification plates if necessary.

3. ACCOMPLISHMENT INSTRUCTIONS

WORK INSTRUCTIONS:

Using referenced component maintenance manual, remove and scrap connecting cylinder P/N 41004705-101. Replace with new or reworked part in accordance with referenced manual instructions.

Upon completion of the ASB instructions, identify for compliance in accordance with Re-identified Parts instructions in 2.C. Make necessary entry in the component and the helicopter historical service records indicating that the part replacement has been accomplished in accordance with this Alert Service Bulletin.