Systematic Aviation Services Sdn. Bhd.

WORKSHEET

JOB NO : PEC 15/038	ACFT TYPE : **BELL 429**	SHEET NO: 1 of 2
DATE OPEN : 26.8.2015	ACFT S/N : **57060**	
TIME : 1400	ACFT REGN : **9M-PEC**	
RAISED BY : MUHAMMAD	A/F HOURS : 1073.3	

DEFECT COLUMN

ASB 429-15-21 : 429-001-523-101/103 AND 429-001-532-101/103 BELL CRANK ASSEMBLY SCHEDULED INSPECTION, INTRODUCTION OF,

ACTION TAKEN COLUMN

CARRIED OUT ASB 429-15-21, PART I. FOUND SATISFACTORY.

MAN	HRS	MAN/HRS	MECH	LAE SIGNATURE	LIC/APP NO and DATE
2	3	6			SAS LAE 017 1.10.2015

DESCRIPTION	PART NUMBER	SERIAL NUMBER ON	SERIAL NUMBER OFF	QTY	BATCH NUMBER
	N/A				

The work recorded above has been carried out in accordance with the requirements of MCAR for the time being in force and in that respect the aircraft / equipment is considered fit for release to service

Systematic Aviation Services Sdn. Bhd.

WORKSHEET

JOB NO : PEC 15/035	ACFT TYPE : **BELL 429**	SHEET NO: 2 of 2
DATE OPEN : 26.8.2015	ACFT S/N : **57060**	
TIME : 1400	ACFT REGN : **9M-PEC**	
RAISED BY : MUHAMMAD	A/F HOURS : 1073.3	

DEFECT COLUMN

DUPLICATE INSPECTION REQUIRED POST ~~INST~~ A3B

429-15-21.

ACTION TAKEN COLUMN

DUPLICATE INSPECTION CARRIED OUT:

1st Inspn: Signature: ..... App. No.: SAS LAE 017 Date: 1.10.2015

2nd Inspn: Signature: ..... App. No.: SAS LAE 019 Date: 1.10.2015

MAN	HRS	MAN/HRS	MECH	LAE SIGNATURE	LIC/APP NO and DATE
–	–	–	–		~~SAS~~ LAE 017 1.10.2015

DESCRIPTION	PART NUMBER	SERIAL NUMBER ON	SERIAL NUMBER OFF	QTY	BATCH NUMBER
N/A					

The work recorded above has been carried out in accordance with the requirements of MCAR for the time being in force and in that respect the aircraft / equipment is considered fit for release to service

Bell Helicopter
A Textron Company

ALERT SERVICE BULLETIN **429-15-21**
19 May 2015

MODEL AFFECTED: **429**

SUBJECT: **429-001-523-101/-103 AND 429-001-532-101/-103 BELLCRANK ASSEMBLY SCHEDULED INSPECTION, INTRODUCTION OF.**

HELICOPTERS AFFECTED: **Serial number 57001 and subsequent.**

COMPLIANCE: **Part I.** Upon reaching 24 months since date of manufacture or 90 days from publication for helicopters that have exceeded 24 months since date of manufacture.
Part II. Every 12 months

DESCRIPTION:

Bell Helicopter has received reports concerning flight control systems that have intermittent restrictions. ASB-429-14-13 was published to address helicopters which did not have air conditioning drainage modifications incorporated. The latest report involved a helicopter which did not have the air conditioning kit installed. Further investigation has determined that static and in-flight precipitation can pool at the forward portion of the roof structure providing a source of contamination for the roof mounted collective and cyclic bellcrank pivot bearings. **Part I** of this bulletin introduces a freedom of rotation check of the roof mounted collective and cyclic bellcrank pivot bearings, and a freedom of rotation check for the collective and cyclic bellcrank arm end bearings. **Part II** of this bulletin repeats **Part I** every 12 months.

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 Helicopter Product Support Engineering - Intermediate Helicopters
Tel: 450-437-2077 / 1-800-463-3036 / pseinter@bh.com

MANPOWER:

Approximately 3 man-hours 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 and/or labor associated with this bulletin.

MATERIAL:

None required.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-429-IPB, Illustrated Parts Breakdown
BHT-429-MM, Maintenance Manual

PUBLICATIONS AFFECTED:

None affected.

ACCOMPLISHMENT INSTRUCTIONS:

Part I.

Perform a freedom of rotation check of the roof mounted cyclic and collective bellcrank bearings as follows:

1. Prepare the helicopter for maintenance.
2. Disconnect the forward ends of the collective control tube, longitudinal SCAS actuator and lateral SCAS actuator (Figure 1) (BHT-429-MM-1, Chapter 67).

CAUTION

Make sure that the collective control tube and SCAS actuator are stowed to prevent binding during the following check.

3. Slowly move the cyclic stick fore/aft and laterally, and the collective stick up/down from stop to stop. If any roughness is detected in the flight control system, remove and replace the six MS27646-41pivot bearings (Item 1, Figure 2) in the collective/ lateral 429-001-523-101/-103, and longitudinal bellcrank 429-001-532-101/-103 (BHT-429-MM-1, Chapter 67).

4. Should discrepant pivot bearings be found that require replacement, contact Product Support Engineering to report findings.

-NOTE-

If binding is detected in any MS27643-4 arm end bearings, all three arm bearings must be replaced per the BHT-ALL-SPM. If tooling and facilities are not available, the arms may be sent through Bell Helicopter CPR for bearing replacement. Alternatively, arm assemblies may be purchased through spares.

5. Check that the MS27643-4 bearings (Item 2) in the 429-001-525-101 collective (Item 3), 429-001-527-101 lateral (Item 4), and 429-001-530-101 longitudinal (Item 5) arm assemblies rotate freely.

6. Should discrepant arm bearings be found that require replacement, contact Product Support Engineering to report findings.

7. Connect the forward ends of the collective control tube, longitudinal SCAS actuator, and lateral SCAS actuator (Figure 1) (BHT-429-MM-1, Chapter 67).

8. Make an entry in the helicopter logbook and historical service records indicating compliance with this Alert Service Bulletin.

Part II.

1. Carry out **Part I** of this bulletin at 12 month intervals from the accomplishment date of **Part I**.

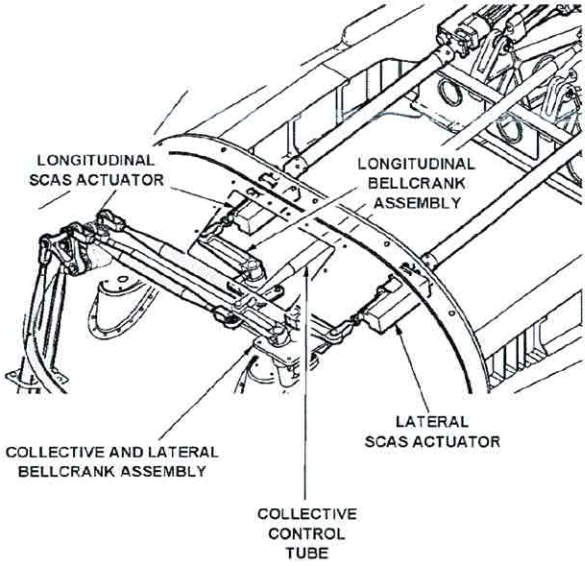
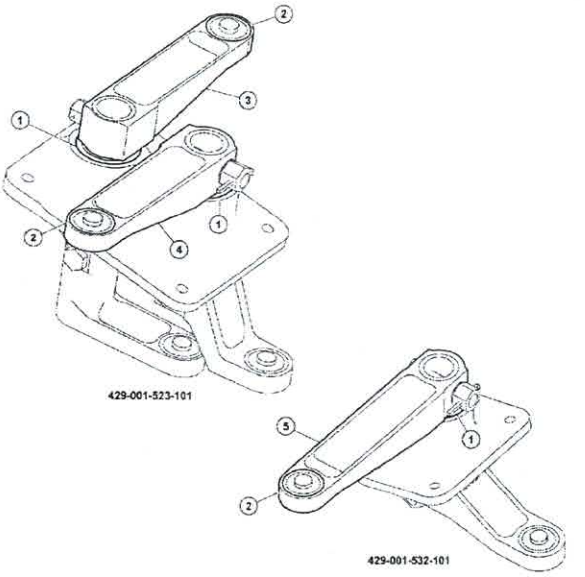


Figure 1 - Bellcrank Assemblies



1. Pivot bearing (MS27646-41) 6 Reqd
2. Bearing (MS27643-4) 3 Reqd
3. Collective arm assembly (429-001-525-101)
4. Lateral arm assembly (429-001-527-101)
5. Longitudinal arm assembly (429-001-530-101)

Figure 2 - Bellcrank Details