

A/C TYPE EC 155 B  
 A/C REGN 9M-SAS S/N 6583  
 TYPE OF CHECK \_\_\_\_\_



EUROCOPTER SOUTH EAST ASIA PTE LTD  
 48 Loyang Way Singapore 508740  
 Company Registration No.: 197702516C

NO: **20343** FORM NO: M/003  
 JOB NO. \_\_\_\_\_  
 PAGE \_\_\_\_\_ OF \_\_\_\_\_

DEFECT AND RECTIFICATION WORKSHEET/CERTIFICATE OF RELEASE TO SERVICE

ITEM NO.	REPORTED BY DATE	DEFECT/WORK REQUIRED	ACTION TAKEN	COMPONENT CHANGES		G.I.N.NO. OR O/H/AUL REPORT NO.	MAN HOURS	MECH	LIC/ APP NO. DATE
				S/N OFF	S/N ON				
1	KAILIN 22/02/07	COMPLY WITH TLX INFO - TFS NO. 00000359 - INFORMATION CONCERNING THE ACCIDENT INVOLVING AN AS 365N HELICOPTER IN THE IRISH SEA	Noted						 23/07 A1585
2	KAILIN 22/02/07	COMPLY WITH SL NO. 2497/06 - ENGINE LOG BOOK ENGINE TEST BENCH SHEET	Noted.						 1/2/07 A1585
03	GABRIEL	To CARRY OUT ASB 76A001 MODIFICATION OF "OFF/LOT/ FLT" SELECTOR LIFTING INTERLOCKS ON 12 ALPHA PANEL (REF. AD EU-2006-0258 R1)	ASB 76A001 c/d. FOUND RHS SWITCH GUARD, P/N: 001723 LHS SWITCH GUARD, P/N: 001722 SWITCH LIMITER P/N, P/N: 36SA61-1807-01	-	-	M0574/06 M0575/06 M0768/06			 26/02/07  26/02/07

CERTIFIES THAT THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE:

- SAR-145 & SINGAPORE ANO
- MALAYSIAN CIVIL AVIATION REGULATIONS
- EASA PART-145: EASA.145.0056
- MANUFACTURER'S PUBLICATIONS

TELEX INFO – EUROCOPTER – TELEX INFO – EUROCOPTER – TELEX INFO – EUROCOPTER

T.F.S. No. 00000359 du 05/02/2007  
EUROCOPTER – MARIGNANE – TLX 42506F

## TELEX INFORMATION

<u>AIRCRAFT:</u>	<b>AS 365</b>	<u>Civil version(s):</u> N, N1, N2, N3
		<u>Military version(s):</u> F, Fs, Fi, K
<u>AIRCRAFT:</u>	<b>AS 565</b>	<u>Military version(s):</u> AA, MA, MB, SA, SB, UB
<u>AIRCRAFT:</u>	<b>AS 366</b>	<u>Civil version(s):</u> G1
		<u>Military version(s):</u> GA
<u>AIRCRAFT:</u>	<b>SA 365</b>	<u>Civil version(s):</u> C, C1, C2, C3
<u>AIRCRAFT:</u>	<b>EC 155</b>	<u>Civil version(s):</u> B, B1

ATA: 00

**SUBJECT: Information concerning the accident involving an AS 365 N helicopter in the Irish Sea**

Dear Customer,

Through the various media, you have probably learnt of an accident involving an AS 365 N helicopter in the Irish Sea, at the end of December 2006.

The helicopter plunged into the sea during an offshore personnel shuttle flight between two rigs.

The salvage of the helicopter was delayed by the bad weather conditions.

Special Bulletin S1/2007, issued by Air Accident Investigation Branch on January 30, 2007 and available from their Internet site, specifies that the result of the analysis of the flight recorders and the investigations conducted on the helicopter indicate no signs of a technical malfunction prior to the impact.

Further checks are in progress as part of a standard accident investigation procedure.



# SERVICE LETTER

OPERATOR SUPPORT  
40220 Tarnos - France  
Tel. (33) (0) 5 59 74 40 00  
Telex 570 042  
Fax (33) (0) 5 59 64 74 98

Technical Support Department  
Fax (33) (0) 5 59 74 45 34

JSV/JMG/MD

**General Service Letter No. 2497/06**

**Subject: All engines.  
Engine log book. Engine test bench sheet**

Bordes, December 14, 2006

Dear Sir or Madam,

Starting from today and for a period of approximately six months, the TURBOMECA Group will be using two qualified performance-calculation software programs to determine whether engines are compliant during bench testing.

These two software programs use the "engine test bench sheet" in two different formats.

It is therefore normal to find one of these two formats in engine log books.

Although these two "engine test bench sheets" are slightly different in terms of form, in terms of content, the engine acceptance criteria are strictly identical and compliant with the TURBOMECA reference documents.

Please contact us if you require further information or assistance.

**J-S. VIGNES**  
Technical Support Department





**eurocopter**  
an EADS Company

*AWM/024/01 #80*

ALERT SERVICE BULLETIN EC155

EUROCOPTER  
DIRECTION TECHNIQUE SUPPORT  
13725 MARGNANE CEDEX FRANCE

CIVIL VERSION(S):

B, B1

# ALERT SERVICE BULLETIN

**No. 76A001**

<b>SUBJECT: ENGINE CONTROLS</b>	
Modification of "OFF/IDL/FLT" selector lifting interlocks on 12 ALPHA panel	
Corresponds to MOD 0739C36	

LIST OF APPROVED REVISIONS	REVISION No. 0 APPROVED
Not applicable	Date: May 4, 2006



**eurocopter**  
an EADS Company

ALERT SERVICE BULLETIN EC155

## 1. PLANNING INFORMATION

### 1.A. EFFECTIVITY

#### 1.A.1. Helicopters

Helicopters pre-MOD 0739C36.

#### **NOTE**

*Refer to the aircraft Certificate of Conformity (or RIC -AMS Individual Inspection Log Book), the Equipment Log Cards (FM) or the aircraft Log Book to identify the actual modification status of the aircraft.*

#### 1.A.2. Component(s) affected

Selector lifting interlocks P/N 800KU01B6AA or 800KU01D6AA and 801KU01C6AA or 801KU01E6AA and guard switch P/N 365A61-1807-00 on 12 ALPHA panel assembly.

### 1.B. ASSOCIATED REQUIREMENTS

Not applicable.

### 1.C. REASON

To secure engine control selectors, in order to prevent engine control selector flipping from "FLT" to "IDLE".

This Alert Service Bulletin will form the subject of an EASA Airworthiness Directive.

### 1.D. DESCRIPTION

In flight, further to a shock on canopy, unlocking of one of the 2 engine control selectors occurred and selector flipped to IDLE. This resulted in slowing the concerned engine to idle. This was made possible by wear of selector control lever locking pins.

This Alert Service Bulletin consists of installing new selector lifting interlocks with locking detents, in order to prevent untimely flipping of engine control selector to IDLE.

Therefore, EUROCOPTER renders compliance with this ALERT SERVICE BULLETIN mandatory.



**eurocopter**  
an EADS Company

ALERT SERVICE BULLETIN EC155

## 1.E. COMPLIANCE

Eurocopter renders compliance with this Alert Service Bulletin mandatory.

### 1.E.1. At the works

#### 1.E.1.a. On aircraft

Before delivery, comply with paragraph 2.B. of this Alert Service Bulletin.

#### 1.E.1.b. On spares

Not applicable.

### 1.E.2. Retrofit action

#### 1.E.2.a. On aircraft: by operator

Comply with paragraph 2.B. of this Alert Service Bulletin, at the latest within 550 flying hours or 1 year, whichever occurs first, as from receipt of this Alert Service Bulletin (published at the date mentioned in page footer).

#### 1.E.2.b. On spares: by operator

Installation of selector lifting interlocks listed in paragraph 1.A.2. is prohibited within twelve months as from receipt of this Alert Service Bulletin.

## 1.F. APPROVAL

Approval is limited to civil version helicopters subject to an Airworthiness Certificate.

### 1.F.1. Approval of modifications

The information or instructions relate to MOD 0739C36 which was approved on November 23, 2005.

### 1.F.2. Approval of Alert Service Bulletin

The technical information contained in this Alert Service Bulletin No. 76A001 Revision 0 was approved on May 4, 2006 under the authority of EASA Design Organization Approval No. 21J.056.

## 1.G. MANPOWER

- Qualification: 1 electrician technician.

- Time: 1 hour approximately.





**eurocopter**

an EADS Company

ALERT SERVICE BULLETIN EC155

**1.H. WEIGHT & BALANCE**

- Weight: Not applicable.
- Moment: Not applicable.

**1.I. EFFECT ON ELECTRICAL LOADS**

Not applicable.

**1.J. SOFTWARE MODIFICATION EMBODIMENT STATE**

Not applicable.

**1.K. REFERENCES**

Refer to:

Aircraft Maintenance System(AMM)  
Task 24.00.00.911.

Standard Practices (MTC)  
Work Card: 20.07.03.408.

Flight Manual (FLM).

**1.L. OTHER DOCUMENTS CONCERNED**

Illustrated Parts Catalog (IPC).

**1.M. INTERCHANGEABILITY AND MIXABILITY OF PARTS**

**1.M.1. Interchangeability**

Selector lifting interlocks are mechanically but not functionally interchangeable.

**1.M.2. Mixability**

Selector lifting interlocks are not mixable.

## 2. ACCOMPLISHMENT INSTRUCTIONS

### 2.A. GENERAL

- Comply with instructions on electrical generation as per Task 24.00.00.911 (AMM).
- Check aircraft cleanliness and appearance after an inspection or repair as per Work Card 20.07.03.408 (MTC).

### 2.B. OPERATIONAL PROCEDURE

#### 2.B.1. Preliminary steps

- Shut down aircraft electrical power system.
- Isolate engine control systems on 12 ALPHA panel.

#### 2.B.2. Replacement selector lifting interlocks and switch guard on 12 ALPHA panel assembly (Figure 1)

- Remove switch guard (a). Scrap.
- Remove selector lifting interlocks (b) and (c) by means of tool (4).
- Scrap selector lifting interlocks (b) and (c).
- Install selector lifting interlocks (2) and (3) by means of tool (4).
- Install switch guard (1).

#### 2.B.3. Functional tests

Not applicable.

#### 2.B.4. Final steps

- Check aircraft cleanliness and appearance as per Work Card 20.07.03.408 (MTC).
- Restore aircraft to flight condition.

#### 2.B.5. Spares

Refer to paragraph 1.E.2.b.

### 2.C. IDENTIFICATION

- Record compliance with this Alert Service Bulletin No. 76A001 Revision 0 and embodiment of MOD 0739C36 in the aircraft documents.



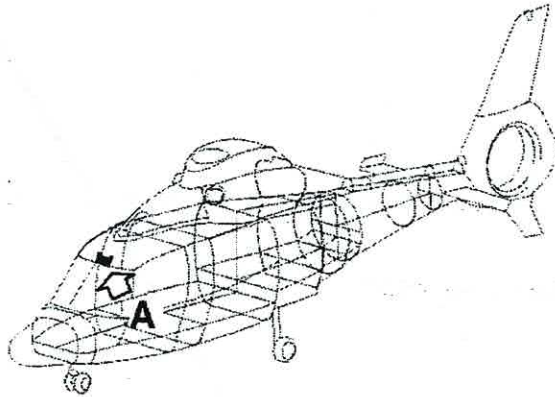
**2.D. OPERATING AND MAINTENANCE INSTRUCTIONS**

2.D.1. Operating instruction(s)

As per Flight Manual (FLM).

2.D.2. Maintenance instruction(s)

Not applicable.



**A**

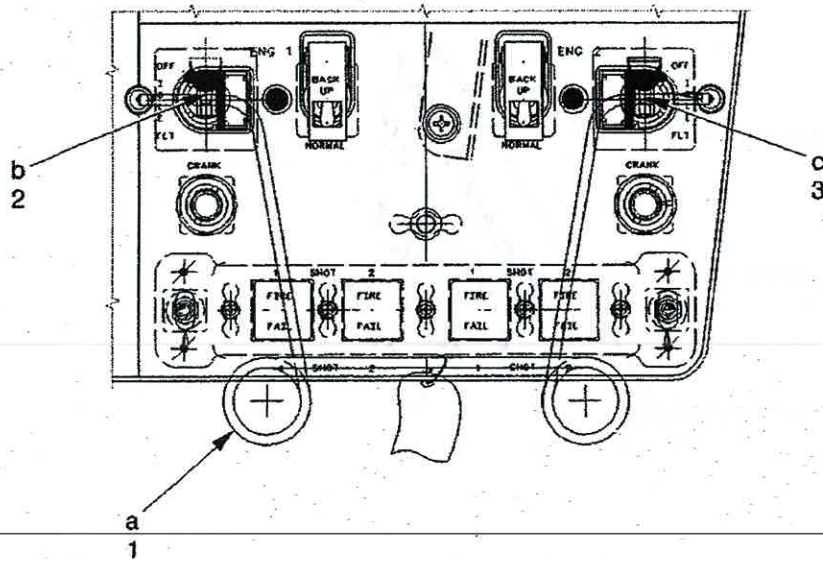


Figure 1



**3. MATERIAL INFORMATION**

**3.A. MATERIAL: COST - AVAILABILITY**

Kits and components will be delivered free of charge upon operator's order until March 31, 2007.

**3.B. INFORMATION CONCERNING INDUSTRIAL SUPPORT**

Not applicable

**3.C. MATERIAL REQUIRED FOR EACH AIRCRAFT, ENGINE/COMPONENTS**

**3.C.1. Kit or component(s) to be ordered**

New P/N (in MPN)	Qty	It.	Key Word	Former P/N	Instructions Disposition
365A61-1807-01	1	1	Guard switch	365A61-1807-00	Scrap
001723	1	2	Selector lifting interlock, LH	800KU01B6AA or 800KU01D6AA	Scrap
001722	1	3	Selector lifting interlock, RH	801KU01C6AA or 801KU01E6AA	Scrap

**3.C.2. Material to be ordered separately**

Not applicable.

**3.C.3. Ingredients to be ordered separately**

Not applicable.

**3.C.4. Material delivered by the customer**

Not applicable.

**3.C.5. Tooling**

New P/N (in MPN)	Qty	It.	Key Word	Former P/N	Instructions Disposition
OUT131	1	4	Tool for slotted nut removal		

*REPLACED BY  
ERRATUM ON  
06/06/07  
CRS #.*



# ERRATUM

## EC 155

### ALERT SERVICE BULLETIN No. 76A001

An error has been found in the subject Alert Service Bulletin No.76A001  
Revision 0:

Page 8/10 paragraph: 3.C.1. Kit or component(s) to be ordered

#### PLEASE READ:

001722	1	2	Switch guard Left side
001723	1	3	Switch guard Right side

#### INSTEAD OF:

001723	1	2	Selector lifting interlock, LH
001722	1	3	Selector lifting interlock, RH

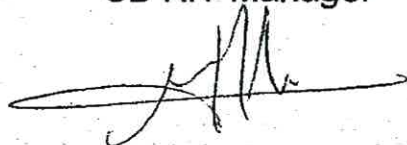
The date on the replacement page is underlined and remains unchanged.

The page issued previously must be replaced with the page enclosed.

May 10, 2007

J. MARTINEZ

SB KIT Manager





**3. MATERIAL INFORMATION**

**3.A. MATERIAL: COST – AVAILABILITY**

Kits and components will be delivered free of charge upon operator's order until March 31, 2007.

**3.B. INFORMATION CONCERNING INDUSTRIAL SUPPORT**

Not applicable

**3.C. MATERIAL REQUIRED FOR EACH AIRCRAFT, ENGINE/COMPONENTS**

**3.C.1. Kit or component(s) to be ordered**

New P/N (in MPN)	Qty	It.	Key Word	Former P/N	Instructions Disposition
365A61-1807-01	1	1	Guard switch	365A61-1807-00	Scrap
001722	1	2	Switch guard Left side	800KU01B6AA or 800KU01D6AA	Scrap
001723	1	3	Switch guard Right side	801KU01C6AA or 801KU01E6AA	Scrap

**3.C.2. Material to be ordered separately**

Not applicable.

**3.C.3. Ingredients to be ordered separately**

Not applicable.

**3.C.4. Material delivered by the customer**

Not applicable.

**3.C.5. Tooling**

New P/N (in MPN)	Qty	It.	Key Word	Former P/N	Instructions Disposition
OUT131	1	4	Tool for slotted nut removal		



**eurocopter**  
an EADS Company

ALERT SERVICE BULLETIN EC155

**3.D. MATERIAL REQUIRED FOR EACH SPARE PART**

**3.D.1. Kit to be ordered**

As per paragraph 3.C.1.

**3.E. RE-IDENTIFIED PARTS**

Not applicable.

**3.F. TOOLING: COST – AVAILABILITY**

For any information, contact the Customer Support Sales Department.

**3.G. PROCUREMENT CONDITIONS**

**3.G.1. Material**

Order the required quantity

from

EUROCOPTER  
Etablissement de Marignane  
Direction VENTES Service Client  
S.V.  
13725 MARGNANE CEDEX  
FRANCE

**NOTE 1**

*On the purchase order, please specify the mode of transport, the destination and the serial numbers of the aircraft to be modified.*

**NOTE 2**

*For ALERT SERVICE BULLETINS, order by:  
Telex: HELICOP 410 969F  
Fax: +33 (0)4.42.85.99.96.*





**eurocopter**  
an EADS Company

ALERT SERVICE BULLETIN EC155


### 3.G.2. Ingredients

The ingredients listed in this Alert Service Bulletin and in the reference documents can be ordered from INTERTURBINE:

Website: <http://www.itlogistics.de>  
Telephone: +49.41.91.809.300  
AOG: +49.41.91.809.444

### 4. APPENDIX

Not applicable.

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No: 2006 - 0256 R1</b></p> <p><b>Date: 16 October 2006</b></p>
<p>No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.</p>	
<b>Type Approval Holder's Name:</b>	<b>Type/Model designation(s):</b>
EUROCOPTER	EC155 Helicopters
TCDS Number: France No. 159	
Foreign AD: Not applicable.	
Supersedes: Not applicable.	
<b>ATA 76</b>	<b>Engine Controls - Engine Control Selector Switch Guard on Panel 12 ALPHA</b>
<b>Manufacturer:</b>	EUROCOPTER (formerly EUROCOPTER FRANCE).
<b>Applicability:</b>	EUROCOPTER EC155 B and B1 helicopters before embodiment of MOD 0739C36.
<b>Reason:</b>	<p>This Airworthiness Directive (AD) is issued following a case of unlocking of one of the two engine control selectors, in flight, further to a shock on the canopy.</p> <p>The selector flipped to the IDLE position. This resulted in slowing the concerned engine to idle.</p> <p>This occurrence was caused by wear of the selector control lever locking pins.</p> <p>According to the flight phase, any untimely switching of an engine to idle can give rise to a dangerous situation for the helicopter and the passengers.</p> <p>This AD has been revised to correct the part names and corresponding numbers in paragraph 2 'Spares' of this directive.</p>
<b>Effective Date:</b>	01 September 2006.
<b>Compliance:</b>	<p>The following measures are mandatory as from the effective date of this AD:</p> <ol style="list-style-type: none"> <li>1. No later than within 550 flying hours or 1 year (the first limit reached is applicable), replace the selector switch guards and interlock on panel 12 ALPHA, in compliance with the instructions specified in paragraph 2.B. of referenced EUROCOPTER EC155 Alert Service Bulletin No. 76A001.</li> <li>2. Spares: <ul style="list-style-type: none"> <li>Installation of the selector lifting interlocks and guard switch, listed below, is prohibited after twelve months from the effective date of this AD:</li> <li>- Selector lifting interlocks P/No. 800KU01B6AA or 800KU01D6AA and 801KU01C6AA or 801KU01E6AA</li> <li>- Guard switch P/No. 365A61-1807-00.</li> </ul> </li> </ol>

Ref. Publications:	EUROCOPTER EC 155 Alert Service Bulletin No. 76A001 or later approved revisions.
Remarks:	<ol style="list-style-type: none"> <li data-bbox="457 336 1277 414">1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOCs) for this AD.</li> <li data-bbox="457 436 1277 515">2. This AD was posted as PAD 06-157 for consultation on 23 June 2006 with a comment period until 16 July 2006. No comments were received during the consultation period.</li> <li data-bbox="457 526 1277 604">3. Enquiries regarding this AD should be addressed to Mr. M. Capaccio, AD Focal Point, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu</li> <li data-bbox="457 627 1277 772">4. For any questions concerning the technical content of the requirements in this AD, please contact: EUROCOPTER (STDI) - Aéroport de Marseille Provence 13725 Marignane Cedex, France. Telephone: +33 (0) 4 42 85 97 97; Facsimile: +33 (0) 4 42 85 99 66 E-mail: Directive.technical-support@eurocopter.com</li> </ol>