

**FEDERAL AVIATION ADMINISTRATION  
AIRWORTHINESS DIRECTIVES**

**SMALL AIRPLANES, ROTORCRAFT, GLIDERS,  
BALLOONS, & AIRSHIPS**

**BIWEEKLY 2013-12**

*6/3/2013 - 6/16/2013*



Federal Aviation Administration  
Engineering Procedures Office, AIR-110  
P.O. Box 25082  
Oklahoma City, OK 73125-0460

## CHANGE OF ADDRESS NOTICE

Any change of address regarding the biweekly service must include the mailing label from a recent issue or your name and address printed exactly as they appear on the mailing label (including the computer number above the address).

Please allow one month for an address change.

### MAIL YOUR ADDRESS CHANGE TO:

Superintendent of Documents  
Government Printing Office  
Mail List Branch SSOM  
Washington, DC 20402

Telephone: (202) 512-1806  
Facsimile: (202) 512-2250

**SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS**

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E - Emergency; COR - Correction; S - Supersedes

**Biweekly 2013-01**

2012-26-07		Eurocopter France	AS350BA helicopters
2012-26-09		Burkhart GROB Luft-und Raumfahrt GmbH	GROB G 109 and GROB G 109B sailplanes
2012-26-10		Eurocopter France	SA-365N, SA-365N1, AS-365N2, AS 365 N3, EC 155B, EC155B1, SA-366G1, SA-365C, SA-365C1, and SA-365C2 helicopters
2012-26-11		Bell Helicopter Textron Inc	205A, 205A-1, and 205B helicopters
2012-26-12		Thielert Aircraft Engines	TAE 125-02-99 and TAE 125-02-114 reciprocating engines
2012-26-13	S 2011-07-09	Thielert Aircraft Engines GmbH	TAE 125-01, TAE 125-02-99, and TAE 125-02-114 reciprocating engines
2012-26-15		Honeywell International Inc	See AD
2012-27-02		Turbomeca S.A.	ARRIEL 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines

**Biweekly 2013-02**

2012-17-08		Bell Helicopter Textron Inc	204B, 205A, 205A-1, 205B, and 212 helicopters
2012-24-09	COR	Lycoming Engines and Continental Motors, Inc.	TIO-540-AK1A, TSIO-360-MB, TSIO-360-SB, and TSIO-360-RB reciprocating engines
2013-01-06		Pilatus Aircraft Ltd	PC-7
2013-02-01		Bell Helicopter Textron Inc	206L, 206L-1, and 206L-3 helicopters, and Model 206L-4 helicopters

**Biweekly 2013-03**

2013-01-04		Bell Helicopter Textron, Inc	412 and 412EP helicopters
2013-01-05		Eurocopter France	AS350B3 and EC130B4 helicopters
2013-01-07		Turbomeca S.A.	Arriel 2D turboshaft engines
2013-02-13		Piper Aircraft, Inc	PA-28-236, PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-201T, PA-28R-201, PA-28-235, PA-28R-201T, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28RT-201, PA-28RT-201T, PA-32-260, PA-32-301, PA-32-301T, PA-32-300, PA-32R-300, PA-32R-301T, PA-32R-301 (SP), PA-32R-301 (HP), PA-32RT-300, PA-32RT-300T, PA-32S-300, PA-32-301FT, PA-32-301XTC, PA-34-200, PA-34-200T, PA-34-220T, PA-44-180, and PA-44-180T
2013-03-03		MD Helicopters, Inc.	500N, 600N, and MD900 helicopters

**Biweekly 2013-04**

2012-26-16	S 2009-14-13	Pilatus Aircraft Ltd.	PC-12, PC-12/45, PC-12/47, and PC-12/47E
2013-03-01	S 2010-20-18	Pacific Aerospace Limited	FU24-954 and FU24A-954
2013-03-02	S 2012-19-09	Eurocopter France	EC 155B, EC155B1, SA-365N1, AS-365N2 AS 365 N, and AS 365 N3 helicopters
2013-03-04		Sikorsky Aircraft Corporation	269D and Model 269D
2013-03-09		DG Flugzeugbau GmbH	DG-1000T gliders
2013-03-10		Lindstrand Hot Air Balloons Ltd	Appliance: Female ACME threaded hose connectors
2013-03-14		Pratt & Whitney Canada Corp.	PT6C-67C turboshaft engines
2013-03-15		Cessna Aircraft Company	172R and 172S
2013-03-16	S 2011-08-01	Bell Helicopter Textron	204B, 205A, 205A-1, 205B, 210 and 212 helicopters
2013-03-21		Pratt & Whitney Canada Corp.	PW206B, PW206B2, PW206C, PW207C, PW207D, PW207D1, PW207D2, and PW207E turboshaft engines
2013-04-02		Reims Aviation S.A.	F406

**Biweekly 2013-05**

2013-04-06		Eurocopter France	AS332C, AS332L, and AS332L1 helicopters
2013-04-08		Diamond Aircraft Industries GmbH	H-36, HK 36 R, HK 36 TS, and HK 36 TTS
2013-04-09		Costruzioni Aeronautiche Tecnam srl	P2006T
2013-05-01	S 2011-24-08	Turbomeca S.A.	Makila 1A2 turboshaft engines

**SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS**

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E - Emergency; COR - Correction; S - Supersedes

**Biweekly 2013-06**

2012-26-06	S 97-10-15	Erickson Air-Crane Incorporated	S-64F helicopters
2013-04-06		Eurocopter France	AS332C, AS332L, and AS332L1 helicopters
2013-05-14		Bell Helicopter Textron, Inc.	412 and 412EP helicopters
2013-05-17		Sikorsky Aircraft Corporation	S-61A, D, E, L, N, NM, R, and V helicopters
2013-05-23		Eurocopter France	AS332C, L, and L1 helicopters
2013-06-02		Diamond Aircraft Industries GmbH	DA 42 M-NG and DA 42 NG

**Biweekly 2013-07**

2004-21-08 R1		Cessna Aircraft Company	190, 195 (L-126A,B,C), 195A, and 195B
2008-07-11 R1		Pilatus Aircraft Ltd.	PC-12, PC-12/45, and PC-12/47
2013-03-10		Lindstrand Hot Air Balloons Ltd	Appliance: female ACME threaded hose connectors
2013-05-15		Robinson Helicopter Company	R44 and R44 II helicopters
2013-05-16		MD Helicopters, Inc.	369D, E, F, and FF helicopters
2013-05-21		Eurocopter France	EC130 B4 helicopters
2013-05-22		Agusta S.p.A.	A109, A109A, A109A II, A109C, A109K2, A109E, A109S, and A119 helicopters
2013-06-04		Reims Aviation S.A.	F406
2013-06-07		Eurocopter France	SA-365N1, AS-365N2, and AS 365 N3 helicopters
2013-06-51		See AD	See Ad

**Biweekly 2013-08**

2013-07-01		Diamond Aircraft Industries GmbH	DA 42, DA 42 M-NG, and DA 42 NG
2013-07-05		Eurocopter France	EC130B4 helicopters
2013-07-06		Eurocopter France	AS332C, AS332L, AS332L1, AS332L2, and EC225LP helicopters
2013-07-12		BRP Powertrain GmbH & Co KG Rotax	912 F2; 912 F3, 912 F4, 912 S2; 912 S3, 912 S4, 914 F2; 914 F3; and 914 F4 engines
2013-08-04		Grob-Werke	G115EG
2013-08-06		Bell Helicopter Textron Canada	430 helicopters
2013-08-07		Eurocopter France	AS332C, L, and L1 helicopters

**Biweekly 2013-09**

2004-21-08 R1		Cessna Aircraft Company	190, 195 (L-126A,B,C), 195A, and 195B
2012-25-01		Eurocopter France	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters
2012-25-04		Eurocopter France	AS350B3 helicopters
2013-03-18		Eurocopter Deutschland GmbH	MBB-BK 117 C-2 helicopters
2013-08-05		Cessna Aircraft Company	525
2013-08-17		Eurocopter France	SA-365N, SA-365N1, AS-365N2, AS 365 N3, and SA-366G1 helicopters
2013-08-19		Eurocopter France	AS350B, BA, B1, B2, B3, C, D, D1, AS355E, F, F1, F2, and N helicopters
2013-08-21		Diamond Aircraft Industries GmbH	DA 40 NG
2013-08-22		Turbomeca S.A.	1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines

**Biweekly 2013-10**

2013-04-08 R1		Diamond Aircraft Industries GmbH	HK 36 R, HK 36 TS, and HK 36 TTS powered gliders
2013-08-14	S 2005-12-02	Revo, Incorporated	COLONIAL C-1, COLONIAL C-2, LAKE LA-4, LAKE LA-4A, LAKE LA-4P, and LAKE LA-4-200
2013-09-05		Twin Commander Aircraft LLC	690, 690A, and 690B
2013-09-06		Agusta	A119 and AW119 MKII helicopters
2013-09-09	S 98-22-15	Slingsby Sailplanes Ltd.	Dart T.51, Dart T.51/17, and Dart T.51/17R sailplanes
2013-10-01		Spectrolab Nightsun XP Searchlight	Appliance: See AD
2013-10-51	E	Eurocopter France	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters

**SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS**

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E - Emergency; COR - Correction; S - Supersedes

**Biweekly 2013-11**

2013-10-05		Eurocopter Deutschland GmbH	MBB-BK 117 C-2 helicopters
2013-11-02		Aircraft Industries a.s.	L-420
2013-11-09	S 2001-08-14R1	Turbomeca S.A.	Arrius 2B1 and 2F turboshaft engines

**Biweekly 2013-12**

2013-10-04	S 82-16-05 R1	Piper Aircraft, Inc.	PA-31, PA-31-325, and PA-31-350
2013-11-01		Iniziativa Industriali Italiane S.p.A.	Sky Arrow 650 TC, Sky Arrow 650 TCN, Sky Arrow 650TCS, and Sky Arrow 650TCNS
2013-11-05		Bell	214B, 214B-1, and 214ST helicopters
2013-11-13		Rolls-Royce plc	Viper Mk. 601-22 turbojet engines



---

**2013-10-04 Piper Aircraft, Ltd.:** Amendment 39-17457; Docket No. FAA-2012-0983; Directorate Identifier 2012-CE-001-AD.

**(a) Effective Date**

This AD is effective July 17, 2013.

**(b) Affected ADs**

This AD supersedes AD 82-16-05 R1, Amendment 39-5278 (51 FR 11707, April 7, 1986).

**(c) Applicability**

This AD applies to turbocharged Piper Aircraft, Inc. Models PA-31, PA-31-325, and PA-31-350 airplanes, all serial numbers, certificated in any category.

**(d) Subject**

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 78, Engine Exhaust.

**(e) Unsafe Condition**

This AD was prompted by the forced landings of aircraft due to exhaust system failures between recurring detailed inspections. We are issuing this AD to prevent the possibility of an in-flight powerplant fire due to an exhaust system failure.

**(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

**(g) Visual Inspection**

(1) Within the next 60 hours time-in-service (TIS) after July 17, 2013 (the effective date of this AD) or within the next 6 months after July 17, 2013 (the effective date of this AD), whichever occurs first, and repetitively thereafter at intervals not to exceed 60 hours TIS or 6 months, whichever occurs first, perform the inspections listed in table 1 of paragraph (g) of this AD upon the parts listed in the same table.

Note 1 to paragraph (g)(1) of this AD: Inspection procedure references can be found in Section 2, Visual Inspection, Chapter 5, Nondestructive Inspection (NDI), FAA Advisory Circular 43.13-1 B, Change 1, dated September 27, 2001, Acceptable Methods, Techniques, And Practices—Aircraft Inspection and Repair ([http://www.airweb.faa.gov/Regulatory\\_and\\_Guidance\\_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=a43.13-1b](http://www.airweb.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=a43.13-1b)).

(2) Aircraft equipped with Supplemental Type Certificate (STC) SA240CH heat exchanger will not have all of the parts referenced in table 1 of paragraph (g). (Information on STC SA240CH may be found at [http://rgl.faa.gov/Regulatory\\_and\\_Guidance\\_Library/rgstc.nsf/0/30C512E870BE421D86257297005B6822?OpenDocument&Highlight=sa240ch](http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgstc.nsf/0/30C512E870BE421D86257297005B6822?OpenDocument&Highlight=sa240ch).) The heat exchanger replaces some of those parts; therefore, this AD requires the visual inspection on only the remaining parts listed in table 1 of paragraph (g) of this AD after installation of STC SA240CH. Airplanes modified in accordance with STC SA240CH will not require an Alternative Method of Compliance if the corrective actions in this AD are complied with.

**Table 1 of Paragraph (g)–Recurring 60-Hour Inspections for Lycoming and Piper Exhaust System Parts**

<b>Product/part nomenclature</b>	<b>Make</b>	<b>Model/part number</b>			<b>Inspect with light and mirror or other method capable of achieving an equivalent visual resolution:</b>
Airplane	Piper	PA-31	PA-31-325	PA-31-350	
Engine	Lycoming	TIO-540-A1A, -A1B, -A2A, -A2B and -A2C (standard cylinder flange; aka, narrow deck).	TIO-540-A2C (wide cylinder flange; aka, wide deck) and -F2BD, and LTIO-540-F2BD.	TIO-540-J2B and -J2BD and LTIO-540-J2B and -J2BD.	
Pipe, exhaust, right intermediate.	Lycoming	LW-15850	LW-15850	LW-15849	bulges, cracks and exhaust leak stains.
Pipe, exhaust, right rear, intermediate.	Lycoming	LW-16792	LW-16792	LW-16621	bulges, cracks and exhaust leak stains.
Pipe, exhaust, right rear.	Lycoming	LW-16793	LW-16793	LW-16620	bulges, cracks and exhaust leak stains.
Pipe, exhaust, left, intermediate.	Lycoming	LW-15849	LW-15849	LW-15849	bulges, cracks and exhaust leak stains.
Pipe, exhaust, left rear, intermediate.	Lycoming	LW-16789	LW-16789	LW-16696	bulges, cracks and exhaust leak stains.
Pipe, exhaust, left rear	Lycoming	LW-16790	LW-16790	LW-16697	bulges, cracks and exhaust leak stains.
Tail pipe assembly, bottom.	Piper	40310-09	40310-09	40310-09	bulges, cracks and exhaust leak stains.
Tail pipe assembly, top.	Piper	40310-08 or 40310-10.	40310-08 or 40310-10.	40319-10	bulges, cracks and exhaust leak stains.

v-band coupling	Lycoming	LW-12093-5	LW-12093-5	LW12093-5	cracks and exhaust leak stains.
v-band coupling	Piper	555-511 or 557-584	555-511 or 557-584	555-366 or 557-369	cracks and exhaust leak stains.

### (h) Corrective Actions

(1) If any damage is found as a result of the inspections required in paragraph (g) of this AD, before further flight, do the following corrective actions:

(i) Replace v-band couplings exhibiting cracks and/or exhaust leak stains with airworthy and replacement v-band couplings following the applicable instructions contained in Piper Aircraft Corporation Service Bulletin No. 644E, dated May 9, 2012, and/or Lycoming Service Instruction No. 1238B, dated January 6, 2010.

(ii) Replace exhaust system parts exhibiting bulges, cracks and/or exhaust leak stains with airworthy parts in accordance with Lycoming Service Information 1320, dated March 7, 1975, and Lycoming Service Information 1391, dated October 5, 1979, as applicable.

Note 2 to paragraph (h) of this AD: During installation, we recommend not opening the v-band coupling more than the MINIMUM diameter necessary to clear coupled flanges. It is recommended to replace any locknuts and/or mating couplings with airworthy parts when locknuts do not exhibit a prevailing torque when installed.

### (i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Atlanta Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the ACO, send it to the attention of the person identified in the Related Information section of this AD.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

### (j) Related Information

(1) For more information about this AD, contact Gary Wechsler, Aerospace Engineer, Atlanta ACO, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; telephone: (404) 474-5575; fax: (404) 474-5606; email: gary.wechsler@faa.gov.

(2) Section 2, Visual Inspection, Chapter 5, Nondestructive Inspection (NDI), FAA Advisory Circular 43.13-1 B, Change 1, dated September 27, 2001, Acceptable Methods, Techniques, And Practices—Aircraft Inspection and Repair may be found at [http://www.airweb.faa.gov/Regulatory\\_and\\_Guidance\\_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=ac43.13-1b](http://www.airweb.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=ac43.13-1b).

### (k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise:

(i) Piper Aircraft Corporation Service Bulletin No. 644E, dated May 9, 2012;

(ii) Lycoming Service Instruction No. 1238B, dated January 6, 2010;

(iii) Lycoming Service Instruction 1320, dated March 7, 1975; and

(iv) Lycoming Service Instruction 1391, dated October 5, 1979.

(3) For obtaining service information identified in this AD, contact Piper Aircraft, Inc., 2926 Piper Drive, Vero Beach, Florida 32960; telephone: (772) 567-4361; fax: (772) 978-6573; Internet: [www.piper.com/home/pages/Publications.cfm](http://www.piper.com/home/pages/Publications.cfm).

(4) You may view this service information at FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Kansas City, Missouri, on May 16, 2013.

Earl Lawrence,  
Manager, Small Airplane Directorate,  
Aircraft Certification Service.



---

**2013-11-01 Initiative Industriali Italiane S.p.A.:** Amendment 39-17461; Docket No. FAA-2013-0455; Directorate Identifier 2013-CE-013-AD.

**(a) Effective Date**

This airworthiness directive (AD) becomes effective June 19, 2013.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Initiative Industriali Italiane S.p.A. Models Sky Arrow 650 TC, Sky Arrow 650 TCN, Sky Arrow 650TCS, and Sky Arrow 650TCNS airplanes, all serial numbers, certificated in any category.

**(d) Subject**

Air Transport Association of America (ATA) Code 27: Flight Controls.

**(e) Reason**

This AD was prompted by mandatory continuing airworthiness information (MCAI) issued by the aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as improper installation of the spherical bearing on the central hinge lever and a crack on the weld length of the horizontal tail/elevator plane hinge assembly. We are issuing this AD to correct this condition, which, if not corrected, could lead to the loss of the main elevator control and could result in loss of control.

**(f) Actions and Compliance**

Unless already done, do the following actions.

(1) Before further flight after June 19, 2013 (the effective date of this AD), and thereafter at intervals not to exceed 25 hours time-in-service (TIS), perform detailed visual inspections of the horizontal tail/elevator plane hinge assembly part number (P/N) R26208/00 following paragraph 4. INSTRUCTIONS of Magnaghi Aeronautica SpA Service Bulletin SB-C n. SB-005-2013-SKY ARROW, Issue 1, dated March 13, 2013.

(2) If during any inspection required by paragraph (f)(1) of this AD, the spherical bearing is found partially or completely out of its seat and/or signs of cracks or corrosion of the hinges, hinge levers or hinge brackets are detected, before further flight send a detailed report to Magnaghi Aeronautica S.p.A. following paragraph 4. INSTRUCTIONS of Magnaghi Aeronautica SpA Service Bulletin SB-C n. SB-005-2013-SKY ARROW, Issue 1, dated March 13, 2013, to the address specified in paragraph (i)(3) of this AD, requesting an FAA-approved repair scheme and incorporating the repair.

(3) As of June 19, 2013 (the effective date of this AD) do not install any spherical bearing P/N SKF GE-10 or horizontal tail/elevator plane hinge assembly P/N R26208/00 on any airplane, unless it has passed the inspection following paragraph 4. INSTRUCTIONS of Magnaghi Aeronautica SpA Service Bulletin SB-C n. SB-005-2013-SKY ARROW, Issue 1, dated March 13, 2013.

**(g) Other FAA AD Provisions**

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Mike Kiesov, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4144; fax: (816) 329-4090; email: mike.kiesov@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW., Washington, DC 20591, Attn: Information Collection Clearance Officer, AES-200.

**(h) Related Information**

Refer to MCAI European Aviation Safety Agency (EASA) AD No. 2013-0073-E, dated March 21, 2013, for related information.

**(i) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Magnaghi Aeronautica SpA Service Bulletin SB-C n. SB-005-2013-SKY ARROW, Issue 1, dated March 13, 2013.

(ii) Reserved.

(3) For Iniziative Industriali Italiane S.p.A. service information identified in this AD, contact Magnaghi Aeronautica S.p.A., Via G. Ferraris, 76, 80142 Napoli, Italy; telephone: + 39 081 5977 225; fax: + 39 081 5977 226; email: dtedesco@magnaghiaeronautica.it; Internet: www.magnaghiaeronautica.it.

(4) You may view this service information at FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>

Issued in Kansas City, Missouri, on May 20, 2013.  
Earl Lawrence,  
Manager, Small Airplane Directorate,  
Aircraft Certification Service.



---

**2013-11-05 Bell Helicopter Textron, Inc. (Bell):** Amendment 39-17465; Docket No. FAA-2013-0470; Directorate Identifier 2013-SW-008-AD.

**(a) Applicability**

This AD applies to Bell Model 214B helicopters, serial number (S/N) 28001 through 28070, Model 214B-1 helicopters, S/N 28001 through 28070, and Model 214ST helicopters, S/N 28101 through 28200, with a tail rotor hanger bearing (bearing), part number (P/N) 214-040-606-005 or 214-040-606-101 installed, certificated in any category.

**(b) Unsafe Condition**

This AD defines the unsafe condition as a bearing with incorrect seal material, which could fail under extreme temperature or environmental conditions, resulting in loss of tail rotor control and subsequent loss of control of the helicopter.

**(c) Effective Date**

This AD becomes effective June 19, 2013.

**(d) Compliance**

You are responsible for performing each action required by this AD within the specified compliance time.

**(e) Required Actions**

(1) Within 10 hours time in service (TIS):

(i) Inspect each bearing to determine whether the seal material is correct, as described in the Accomplishment Instructions, Part 1–Inspection, paragraphs 1.a. through 2. and Figure 1 of Bell Alert Service Bulletin (ASB) 214-13-74, Revision A, dated March 25, 2013, for Model 214B and 214B-1 helicopters and ASB 214ST-13-90, Revision A, dated March 25, 2013, for Model 214ST helicopters.

(ii) For each bearing with black seal material, before further flight and thereafter at intervals not to exceed 10 hours TIS, inspect the bearing for leakage, slung grease, or damage. If there is any leakage, slung grease, or damage, before further flight, replace the bearing with an airworthy bearing with red/orange to brown color seal material.

(2) Replacing a bearing with an airworthy bearing with the correct red/orange to brown color seal material terminates the inspection requirements of this AD.

(3) Do not install bearing P/N 214-040-606-005 or 214-040-606-101 with black seal material on any helicopter.

**(f) Special Flight Permits**

Special flight permits are prohibited.

**(g) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Rotorcraft Certification Office, FAA, may approve AMOCs for this AD. Send your proposal to: James Blyn, Aviation Safety Engineer, Rotorcraft Certification Office, Rotorcraft Directorate, FAA, 2601 Meacham Blvd., Fort Worth, Texas 76137; telephone (817) 222-5762; email 7-AVS-ASW-170@faa.gov.

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office before operating any aircraft complying with this AD through an AMOC.

**(h) Subject**

Joint Aircraft Service Component (JASC) Code: 6500: Tail Rotor Drive Bearing.

**(i) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Bell Alert Service Bulletin No. 214-13-74, Revision A, dated March 25, 2013.

(ii) Bell Alert Service Bulletin No. 214ST-13-90, Revision A, dated March 25, 2013.

(3) For Bell service information identified in this AD, contact Bell Helicopter Textron, Inc., P.O. Box 482, Fort Worth, TX 76101; telephone (817) 280-3391; fax (817) 280-6466; or at <http://www.bellcustomer.com/files/>.

(4) You may view this service information at FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas 76137. For information on the availability of this material at the FAA, call (817) 222-5110.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Fort Worth, Texas, on May 17, 2013.

Kim Smith,  
Directorate Manager, Rotorcraft Directorate,  
Aircraft Certification Service.



---

**2013-11-13 Rolls-Royce plc (formerly Rolls-Royce (1971) Limited, Bristol Engine Division):**  
Amendment 39-17473; Docket No. FAA-2012-1331; Directorate Identifier 2012-NE-44-AD.

**(a) Effective Date**

This airworthiness directive (AD) becomes effective July 15, 2013.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to all Rolls-Royce plc (RR) Viper Mk. 601-22 turbojet engines.

**(d) Reason**

This AD was prompted by a review carried out by RR of the lives of certain critical parts. We are issuing this AD to prevent failure of life-limited parts, damage to the engine, and damage to the airplane.

**(e) Actions and Compliance**

Unless already done, do the following actions.

(1) After the effective date of this AD, remove the following parts before they reach their specified new, lower, life limits: compressor shaft, part number (P/N) V900766: 20,720 flight cycles since new (CSN); compressor rear stubshaft (center bearing hub), P/Ns V900007 and V900994: 9,600 flight CSN; combustion chamber outer casing, P/Ns V950013 and V950331: 32,000 flight CSN.

(2) After the effective date of this AD, do not install any part identified in paragraph (e)(1) of this AD into any engine, nor return any engine to service with the parts identified in paragraph (e)(1) of this AD installed, if the part exceeds the new, lower, life limit specified in paragraph (e)(1) of this AD.

**(f) Alternative Methods of Compliance (AMOCs)**

The Manager, Engine Certification Office, FAA, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request.

**(g) Related Information**

(1) For more information about this AD, contact Robert Green, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; phone: 781-238-7754; fax: 781-238-7199; email: Robert.Green@faa.gov.

(2) Refer to European Aviation Safety Agency Airworthiness Directive 2012-0243 (Correction: November 13, 2012), dated November 12, 2012, and RR Alert Service Bulletin 72-A206, dated November 2012, for related information.

(3) For service information identified in this AD, contact Defence Aerospace Communications at Rolls-Royce plc, P.O. Box 3, Gypsy Patch Lane, Filton, Bristol, BS347QE, United Kingdom; phone: 011-44-117-9791234; or email: [http://www.rolls-royce.com/contact/defence\\_team.jsp](http://www.rolls-royce.com/contact/defence_team.jsp). You may view this service information at the FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7125.

**(h) Material Incorporated by Reference**

None.

Issued in Burlington, Massachusetts, on May 28, 2013.  
Colleen M. D'Alessandro,  
Assistant Manager, Engine & Propeller Directorate,  
Aircraft Certification Service.