

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2010-0165 Date: 05 August 2010 Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.
This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].	
Type Approval Holder's Name : AIRBUS	Type/Model designation(s) : A318, A319, A320 and A321 aeroplanes
TCDS Number :	EASA.A.064
Foreign AD :	Not applicable
Supersedure :	None
ATA 35	Oxygen System – Passenger Oxygen Masks – Identification / Modification / Replacement
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	Airbus A318-111, A318-112, A318-121, A318-122, A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, A319-133, A320-111, A320-211, A320-212, A320-214, A320-215, A320-216, A320-231, A320-232, A320-233, A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231 and A321-232 aeroplane models, all manufacturer serial numbers.
Reason:	During maintenance, it was discovered that the in-line flow indicators at several oxygen-supply-lines of B/E Aerospace (formerly Puritan-Bennett) passenger oxygen masks Part Number (P/N) 174080-xx were found broken. Investigation revealed that in-line flow indicators P/N 118023-02, installed on, but potentially not limited to B/E Aerospace oxygen masks P/N 174080-XX, 174085-XX, 174095-XX, and 174098-XX, manufactured between 01 January 2002 and 01 March 2006, are weaker and can fracture because of internal residual stresses caused by the flow indicator joint design and manufacturing processes. The affected oxygen masks P/N are known to be installed on, but not limited to A320 family aeroplanes. This condition, if not detected and corrected, could lead to further cases of fracturing and separation of the in-line flow indicators of the passenger oxygen masks, which could inhibit oxygen flow to the masks and consequently result in exposure of the passengers and cabin attendants to hypoxia following a depressurization event. For the reasons described above, this AD requires the identification of the affected masks and modification or replacement with a serviceable unit.

Effective Date:	19 August 2010																																				
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously : (1) Within the next 6 000 flight hours, or 4 500 flight cycles, or 20 months, whichever occurs first after the effective date of this AD, accomplish the following actions concurrently : (1.1) Identify the P/N of the passenger oxygen masks installed on aeroplane (1.2) Determine whether any are listed in table 1 below, and manufactured between 01 January 2002 and 01 March 2006 in accordance with the instructions of B/E Aerospace Service Bulletin (SB) 174080-35-02 Revision 01. <table><caption>Table 1</caption><thead><tr><th colspan="3">B/E Aerospace Passenger Oxygen Mask P/N</th></tr></thead><tbody><tr><td>174080-73</td><td>174085-96</td><td>174098-01</td></tr><tr><td>174080-74</td><td>174085-97</td><td>174098-02</td></tr><tr><td>174080-76</td><td>174085-98</td><td>174098-03</td></tr><tr><td>174080-87</td><td>174095-1E</td><td>174098-04</td></tr><tr><td>174080-96</td><td>174095-73</td><td>174098-05</td></tr><tr><td>174080-97</td><td>174095-74</td><td>174098-06</td></tr><tr><td>174080-98</td><td>174095-76</td><td></td></tr><tr><td>174085-73</td><td>174095-87</td><td></td></tr><tr><td>174085-74</td><td>174095-96</td><td></td></tr><tr><td>174085-76</td><td>174095-97</td><td></td></tr><tr><td>174085-87</td><td>174095-98</td><td></td></tr></tbody></table> (1.3) If any affected oxygen masks are installed, before next flight, modify the affected masks by replacing the in-line flow indicator P/N 118023-02 with an improved flow indicator P/N 118023-12, in accordance with the instructions of B/E Aerospace SB 174080-35-02 Revision 01, or replace the affected mask with a new or serviceable unit in accordance with the instructions of A318/A319/A320/A321 Aircraft Maintenance Manual (AMM) chapter 35-21-43. Note: For the purpose of the paragraph (1.3) of this AD, a serviceable unit is either a passenger mask with a P/N not listed in Table 1 of this AD, or a passenger mask with a P/N listed in Table 1 of this AD but not manufactured between 01 January 2002 and 01 March 2006. (2) After the effective date of this AD, do not install a B/E Aerospace passenger oxygen mask P/N listed in table 1 of this AD, manufactured between 01 January 2002 and 01 March 2006, on any aeroplane, unless the mask has been modified and re-identified in accordance with the instructions of B/E Aerospace SB 174080-35-02 at original issue or Revision 01.	B/E Aerospace Passenger Oxygen Mask P/N			174080-73	174085-96	174098-01	174080-74	174085-97	174098-02	174080-76	174085-98	174098-03	174080-87	174095-1E	174098-04	174080-96	174095-73	174098-05	174080-97	174095-74	174098-06	174080-98	174095-76		174085-73	174095-87		174085-74	174095-96		174085-76	174095-97		174085-87	174095-98	
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Ref. Publications:	A318/A319/A320/A321 AMM chapter 35-21-43 Revision 90. B/E Aerospace SB 174080-35-02 Revision 01 dated 13 April 2010. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.																																				

Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu 4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS – Airworthiness Office – EAS; Fax +33 5 61 93 44 51; E-mail: account.airworth-eas@airbus.com
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