

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2010-0165R1 Date: 27 January 2011 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
Revision :	This AD revises EASA AD 2010-0165 dated 05 August 2010, including the Correction dated 23 September 2010.
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.

	This AD was corrected to remove the specific revision number 90 for the A318/A319/A320/A321 Aircraft Maintenance Manual (AMM) from the "Ref. Publications" section; the AMM has a different revision status for each operator (customised). This AD is revised to specify that the identification of the affected passenger oxygen masks is also possible in accordance with aeroplane maintenance records data analysis.																																				
Effective Date:	Revision 1: 10 February 2011 Original issue: 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 19 August 2010 [the effective date of the original issue 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. A review of aeroplane maintenance records is acceptable to make this determination, in lieu of the instructions of B/E Aerospace Service Bulletin (SB) 174080-35-02 Revision 01, if the P/N and manufacturing dates of the installed passenger oxygen masks can be conclusively identified from that review. Table 1 <table border="1" style="margin-left: auto; margin-right: auto;"> <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 19 August 2010 [the effective date of the original issue of this AD], do not install a B/E Aerospace passenger oxygen mask P/N listed in	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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	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.
Ref. Publications:	A318/A319/A320/A321 AMM chapter 35-21-43. B/E Aerospace SB 174080-35-02 Revision 01 dated 13 April 2010. The use of later approved revisions of these documents 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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