

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2009-0212 Date: 06 October 2009 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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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 : Piaggio Aero Industries S.p.A.	Type/Model designation(s) : P.180 series aeroplanes.
TCDS Number : EASA A.059	
Foreign AD : Not applicable	
Supersedure : None	
ATA 24	Electrical Power - Generator Power Cables - Inspection / Repair
Manufacturer(s):	Piaggio Aero Industries S.p.A.
Applicability:	Model P.180 Avanti and P.180 Avanti II aeroplanes, all serial numbers up to 1180 inclusive.
Reason:	An operator reported a short circuit between a generator power cable and an anti-ice shutoff valve, which was caused by chafing between the cable and the valve; the insulation of the cable and surrounding sleeve were worn off. An investigation revealed that a scarce clearance between the cables and adjacent parts, together with vibrations of generator power cables favoured by insufficient clamping, was the root cause of the damage. If left uncorrected, this situation could lead to short circuits with possible fire and/or loss of important aircraft systems. This Airworthiness Directive (AD) requires an inspection to detect damaged cables/sleeves, and replacement/repair as necessary; in addition, this AD requires to ensure that acceptable minimum clearances between cables and parts exist, and to improve clamping to minimize vibrations of the cables.
Effective Date:	20 October 2009

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) At the next scheduled 'A' check or within 3 months, whichever occurs first after the effective date of this AD, inspect for minimum clearance and insulation damage the generator power cables in accordance with Part A of the accomplishment instructions of Piaggio Aero Industries Service Bulletin (SB) No.80-0271 original issue. If any discrepancy (inadequate clearance, insulation damage) is found, do all necessary corrective actions in accordance with Part B of the accomplishment instructions of Piaggio Aero Industries SB No.80-0271 original issue.
Ref. Publications:	Piaggio Aero Industries Service Bulletin No.80-0271, original issue; 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. This AD was posted on 04 September 2009 as PAD 09-103 for consultation until 02 October 2009. No comments were received during the consultation period. 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: Piaggio Aero Industries S.p.A - Airworthiness Office Phone: +39 010 6481353 Fax: +39 010 6481881 Email: airworthiness@piaggioaero.it