

**2010-03-04 PIAGGIO AERO INDUSTRIES S.p.A.:** Amendment 39-16187; Docket No. FAA-2009-1081; Directorate Identifier 2009-CE-058-AD.

### **Effective Date**

(a) This airworthiness directive (AD) becomes effective March 11, 2010.

### **Affected ADs**

(b) None.

### **Applicability**

(c) This AD applies to Model PIAGGIO P-180 airplanes, all serial numbers through 1180, certificated in any category.

### **Subject**

(d) Air Transport Association of America (ATA) Code 24: Electric Power.

### **Reason**

(e) The mandatory continuing airworthiness information (MCAI) states:

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.

### **Actions and Compliance**

(f) Unless already done, do the following actions:

(1) Within 3 months after March 11, 2010 (the effective date of this AD), inspect for minimum clearance and insulation damage to the generator power cables in accordance with Part A of the ACCOMPLISHMENT INSTRUCTIONS of PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N.: 80-0271, dated May 18, 2009.

(2) If, as a result of the inspection required by paragraph (f)(1) of this AD, any discrepancy (inadequate clearance or insulation damage) is found, before further flight, do all necessary corrective actions in accordance with Part B of the ACCOMPLISHMENT INSTRUCTIONS of PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N.: 80-0271, dated May 18, 2009.

### **FAA AD Differences**

Note: This AD differs from the MCAI and/or service information as follows: No differences.

### **Other FAA AD Provisions**

(g) 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: Sarjapur Nagarajan, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4145; fax: (816) 329-4090. 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, under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

### **Related Information**

(h) Refer to MCAI European Aviation Safety Agency AD No.: 2009- 0212, dated October 6, 2009; and PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N.: 80-0271, dated May 18, 2009, for related information.

### **Material Incorporated by Reference**

(i) You must use PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N.: 80-0271, dated May 18, 2009, to do the actions required by this AD, unless the AD specifies otherwise.

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

(2) For service information identified in this AD, contact Piaggio Aero Industries S.p.a., Via Cibrario, 4--16154 Genoa, Italy; telephone +39 010 06481 741; fax: +39 010 6481 309; Internet: <http://www.piaggioaero.com>, or e-mail: [MMicheli@piaggioaero.it](mailto:MMicheli@piaggioaero.it).

(3) You may review copies of the service information incorporated by reference for this AD at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the Central Region, call (816) 329-3768.

(4) You may also review copies of the service information incorporated by reference for this AD 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/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).