

**2009-21-08 PIAGGIO AERO INDUSTRIES S.p.A.:** Amendment 39-16047; Docket No. FAA-2009-0699; Directorate Identifier 2009-CE-042-AD.

### **Effective Date**

(a) This airworthiness directive (AD) becomes effective December 14, 2009.

### **Affected ADs**

(b) None.

### **Applicability**

(c) This AD applies to Model P-180 airplanes, all serial numbers (S/N), certificated in any category.

### **Subject**

(d) Air Transport Association of America (ATA) Code 32: Landing Gear.

### **Reason**

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

Some cases of uncommanded steering action were observed, while the steering system was switched off. A leakage in the Steering Select/Bypass Valve, installed in the Steering Manifold, when closed, is suspected to have caused the uncommanded steering.

If left uncorrected, this condition could lead to a potentially dangerous veer along the runway; in fact, according to the Aircraft Flight Manual limitations, the steering system must be in "off" position during landing and takeoff (in this case when airspeed is higher than 60 knots). For the reasons stated above, this new AD mandates repetitive inspections for leakage of the Nose Landing Gear steering manifold.

The MCAI requires, if any inspection finds leakage of the steering manifold, the replacement of the steering manifold.

### **Actions and Compliance**

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

(1) Within the next 6 months after December 14, 2009 (the effective date of this AD) or within the next 100 hours time-in-service (TIS) after December 14, 2009 (the effective date of this AD), whichever occurs first, and repetitively thereafter at intervals not to exceed every 165 hours TIS, do a functional test of the nose landing gear (NLG) steering manifold. Follow the accomplishment instructions of PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80-0249 (includes CONFIRMATION SLIP), Rev. 1, dated May 27, 2009.

(2) Upon installation of a NLG steering manifold on any airplane, do a functional test of the NLG steering manifold. Repetitively thereafter at intervals not to exceed every 165 hours TIS, do a functional test of the NLG steering manifold. Follow the accomplishment instructions of PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80-0249 (includes CONFIRMATION SLIP), Rev. 1, dated May 27, 2009.

(3) If during any inspection required in paragraphs (f)(1) and (f)(2) of this AD movement of a NLG steering manifold is found, using the compliance times in the accomplishment instructions of PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80- 0249 (includes CONFIRMATION SLIP), Rev. 1, dated May 27, 2009, replace the NLG steering manifold following (for S/N 1004 through 1104) pages 1 through 8 dated March 1, 2006; 201, 202, 204, and 206 through 216, dated June 16, 2008; 203 and 205, dated March 1, 2006; and 501 through 506, dated March 1, 2006, of PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00, Revision No. D2, revised June 16, 2008; or (for S/N 1105 and greater) pages 1 through 8, dated June 30, 2005; 201, 202, and 207 through 209, dated December 19, 2008; 203 and 205, dated June 30, 2005; 204, 206, and 210 through 216, dated September 14, 2007; and 501 through 506, dated June 30, 2005, of PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00, Revision No. A3, revised December 19, 2008.

### **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 EASA AD 2009-0129, dated June 19, 2009; PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80- 0249 (includes CONFIRMATION SLIP), Rev. 1, dated May 27, 2009; PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00, revised June 16, 2008, pages 1 through 8, 201 through 216, and 501 through 506; and PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50- 00, revised December 19, 2008, pages 1 through 8, 201 through 216, and 501 through 506, for related information.

## Material Incorporated by Reference

(i) You must use the service information specified in Table 1 of this AD 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).

**Table 1--Material Incorporated by Reference**

Service information title	Page(s)	Revision	Date
PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80-0249.	1 through 9	Rev. 1	May 27, 2009.
PIAGGIO AERO INDUSTRIES S.p.A. Service Bulletin (Mandatory) N. 80-0249.	CONFIRMATION SLIP	Rev. 1	Not Dated.
PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00.	Cover	No. D2	Revised June 16, 2008.

PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00.	1 through 8	Not Applicable	March 1, 2006.
PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00.	201, 202, 204, and 206 through 216.	Not Applicable	June 16, 2008.
PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00.	203 and 205	Not Applicable	March 1, 2006.
PIAGGIO AERO PIAGGIO P.180 AVANTI Maintenance Manual, Report No. 9066, 32-50-00.	501 through 506	Not Applicable	March 1, 2006.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	Cover	No. A3	Revised December 19, 2008.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	1 through 8	Not Applicable	June 30, 2005.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	201, 202, and 207 through 209.	Not Applicable	December 19, 2008.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	203 and 205	Not Applicable	June 30, 2005.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	204, 206, and 210 through 216.	Not Applicable	September 14, 2007.
PIAGGIO AERO PIAGGIO P.180 AVANTI II Maintenance Manual, Report No. 180-MAN-0200-01105, 32-50-00.	501 through 506	Not Applicable	June 30, 2005.