

**2010-15-10 Piper Aircraft, Inc.:** Amendment 39-16376; Docket No. FAA- 2009-1015; Directorate Identifier 2009-CE-039-AD.

**Effective Date**

(a) This AD becomes effective on August 31, 2010.

**Affected ADs**

(b) None.

**Applicability**

(c) This AD applies to the following airplane models and serial numbers that are certificated in any category:

<b>Models</b>	<b>Serial Numbers</b>
PA-28-140	28-20001 through 28-26946 and 28-7125001 through 28-7725290
PA-28-150	28-03; 28-1 through 28-4377; and 28-1760A
PA-28-160	28-03; 28-1 through 28-4377; and 28-1760A
PA-28-180	28-03; 28-671 through 28-5859; and 28-7105001 through 28-7205318
PA-28S-160	28-1 through 28-1760 and 28-1760A
PA-28S-180	28-671 through 28-5859 and 28-7105001 through 28-7105234
PA-28-235	28-10001 through 28-11378; 28-7110001 through 28-7210023; 28E-11 and 28-7310001 through 28-7710089
PA-28-236	28-7911001 through 28-8611008 and 2811001 through 2811050
PA-28-151	28-7415001 through 28-7715314
PA-28-161	2841001 through 2841365; 28-7716001 through 28-8216300; 28-8316001 through 28-8616057; 2816001 through 2816109; 2816110 through 2816119; and 2842001 through 2842305
PA-28-180	28-E13 and 28-7305001 through 28-7505260
PA-28-181	28-7690001 through 28-8690056; 28-8690061; 28-8690062; 2890001 through 2890205; 2890206 through 2890231; and 2843001 through 2843672
PA-28-201T	28-7921001 through 28-7921095
PA-28R-180	28R-30002 through 28R-31270 and 28R-7130001 through 28R-7130013
PA-28R-200	28R-35001 through 28R-35820; 28R-7135001 through 28R-7135229; and 28R-7235001 through 28R-7635545
PA-28R-201	28R-7737002 through 28R-7837317; 2837001 through 2837061; and 2844001 through 2844138
PA-28R-201T	28R-7703001 through 28R-7803374 and 2803001 through 2803012
PA-28RT-201	28R-7918001 through 28R-7918267 and 28R-8018001 through 28R-8218026

PA-28RT-201T	28R-7931001 through 28R-8631005 and 2831001 through 2831038
PA-32-260	32-03; 32-04; 32-1 through 32-1297; and 32-7100001 through 32-7800008
PA-32-300	32-15; 32-21; 32-40000 through 32-40974; and 32-7140001 through 32-7940290
PA-32S-300	32S-15; 32S-40000 through 32S-40974; and 32S-7140001 through 32S-7240137
PA-32R-300	32R-7680001 through 32R-7880068
PA-32RT-300	32R-7885002 through 32R-7985106
PA-32RT-300T	32R-7787001 and 32R-7887002 through 32R-7987126
PA-32R-301 (SP)	32R-8013001 through 32R-8613006; 3213001 through 3213028; and 3213030 through 3213041
PA-32R-301 (HP)	3213029; 3213042 through 3213103; 3246001 through 3246217; 3246219; 3246223; 3246218; 3246220 through 3246222; and 3246224 through 3246244
PA-32R-301T	32R-8029001 through 32R-8629008 and 3229001 through 3229003
PA-32-301	32-8006002 through 32-8606023; 3206001 through 3206019; 3206042 through 3206044; 3206047; 3206050 through 3206055; and 3206060
PA-32-301T	32-8024001 through 32-8424002
PA-32R-301T	3257001 through 3257483
PA-32-301FT	3232001 through 3232074
PA-32-301XTC	3255001 through 3255014; 3255026, 3255015 through 3255025; 3255027; and 3255051
PA-34-200	34-E4 and 34-7250001 through 34-7450220
PA-34-200T	34-7570001 through 34-8170092
PA-34-220T	34-8133001 through 34-8633031; 3433001 through 3433172; 3448001 through 3448037; 3448038 through 3448079; 3447001 through 3447029; and 3449001 through 3449377
PA-44-180	44-7995001 through 44-8195026; 4495001 through 4495013; and 4496001 through 4496251
PA-44-180T	44-8107001 through 44-8207020

### Unsafe Condition

(d) This AD results from two field reports of incorrectly assembled control wheel shafts. We are issuing this AD to detect and correct any incorrectly assembled control wheel shafts. This condition, if left uncorrected, could lead to separation of the control wheel shaft, resulting in loss of pitch and roll control.

## Compliance

(e) To address this problem, you must do the following, unless already done:

Actions	Compliance	Procedures
(1) Inspect the pilot and copilot control wheel columns for correct control wheel shaft installation.	Within 100 hours time-in-service after August 31, 2010 (the effective date of this AD), or within the next 12 months after August 31, 2010 (the effective date of this AD), whichever occurs first.	Follow Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197A, dated September 1, 2009; or Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197B, dated May 3, 2010.
(2) If during the inspection required in paragraph (e)(1) of this AD an incorrectly installed control wheel shaft is found, replace the appropriate shaft with a new shaft.	Before further flight after the inspection where incorrect installation of the control wheel shaft is found.	Follow Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197A, dated September 1, 2009; or Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197B, dated May 3, 2010.
(3) Inspect the universal joint and all other control wheel parts when doing the action required in (e)(2) of this AD and, if any deterioration, excessive wear, or damage is found, replace the universal joint and/or other control wheel parts with a new universal joint and/or other applicable new control wheel parts as necessary.	Before further flight after the inspection where incorrect installation of the control wheel shaft is found.	Follow Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197A, dated September 1, 2009; or Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197B, dated May 3, 2010.

## Alternative Methods of Compliance (AMOCs)

(f) The Manager, Atlanta Aircraft Certification Office (ACO), 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: Hector Hernandez, Aerospace Engineer, Atlanta Aircraft Certification Office (ACO), 1701 Columbia Avenue, College Park, GA 30337; telephone: (404) 474-5587; fax: (404) 474-5606. 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.

## Related Information

(g) To get copies of the service information referenced in this AD, contact Piper Aircraft, Inc., 2926 Piper Drive, Vero Beach, Florida 32960; telephone: (772) 567-4361; fax: (772) 978-6573; Internet: <http://www.newpiper.com/company/publications.asp>. To view the AD docket, go to U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590, or on the Internet at <http://www.regulations.gov>.

## **Material Incorporated by Reference**

(h) You must use Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197A, dated September 1, 2009, or Piper Aircraft, Inc. Mandatory Service Bulletin No. 1197B, dated May 3, 2010, 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 Piper Aircraft, Inc., 2926 Piper Drive, Vero Beach, Florida 32960; telephone: (772) 567-4361; fax: (772) 978-6573; Internet: <http://www.newpiper.com/company/publications.asp>.

(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).