中国民用航空局



CAAC 适 航 指 令

AIRWORTHINESS DIRECTIVE

本指令根据中国民用航空规章《民用航空器适航指令规定》(CCAR-39)颁发,内容涉及飞行安全,是强制性措施。如不按规定完成,有关航空器将不再适航。

编号: CAD2003-C172-01R1

修正案号: 39-4558

一. 标题: 升级 KAP 140 自动驾驶计算机系统

二. 适用范围:

安装有件号为(P/N) 065-00176-2501, P/N 065-00176-2602, P/N 065-00176-5001, P/N 065-00176-5101, P/N 065-00176-5201, P/N 065-00176-5402和P/N 065-00176-7702的所有序列号KAP 140自动驾驶计算机系统,且型号及序号如下表所列的飞机:

Model	Serial Nos.	
172R	17280001至17281073, 17281075至17281127, 17281130.	
172S	172S8001至172S9195, 172S9197, 172S9198, 172S9200至172S9203.	
182S	18280001至18280944.	
182T	18280945至18281065, 18281067至18281145, 18281147至18281163,	
	18281165至18281167, 18281172.	
T182T	T18208001至T18208109, T18208111至 T18208177.	
206H	I 20608001至20608183, 20608185, 20608187, 20608188.	
Т206Н	T20608001至T20608039, T20608041至T20608367, T20608369 至	
	T20608379, T20608381, T20608382, T20608385.	

三. 参考文件:

FAA AD 2004-15-18,修正案: 39-13752,2004年7月21日颁发。

四. 原因、措施和规定 本适航指令替代 CAD2003-C172-01, 39-4262

本指令的颁发是由于曾收到自动驾驶系统被无意接通且未被察觉的报告。KAP 140自动驾驶系统被无意接通,可能导致飞行员执行错误的动作。为防止此类事件的再次发生,要求完成本指令所附FAA AD 2004-15-18要求的工作,除非己事先完成。

完成本指令可采取能保证安全的替代方法或调整完成的时间,但 必须得到适航当局的批准。

附件: FAA AD 2004-15-18

2004-15-18 Cessna Aircraft Company: Amendment 39-13752; Docket No. 2004-CE-03-AD.

When Does This AD Become Effective?

(a) This AD becomes effective on September 12, 2004.

What Other ADs Are Affected by This Action?

(b) This AD supersedes AD 2003-24-13.

What Airplanes Are Affected by This AD?

- (c) This AD affects the following airplane models and serial numbers that are:
- (1) equipped with a KAP 140 autopilot computer system, part number (P/N) 065-00176-2501, P/N 065-00176-2602, P/N 065-00176-5001, P/N 065-00176-5101, P/N 065-00176-5201, P/N 065-00176-5402, or P/N 065-00176-7702, all serial numbers; and
- (2) certificated in any category.

Model	Serial Nos.	
172R	17280001 through 17281073, 17281075 through 17281127, and 17281130.	
172S	172S8001 through 172S9195, 172S9197, 172S9198, and 172S9200 through	
	172S9203.	
182S	18280001 through 18280944.	
182T	T 18280945 through 18281065, 18281067 through 18281145, 18281147 thro	
	18281163, 18281165 through 18281167, and 18281172.	
T182T	T18208001 through T18208109, and T18208111 through T18208177.	
206H	20608001 through 20608183, 20608185, 20608187, and 20608188.	
Т206Н	T20608001 through T20608039, T20608041 through T20608367, T20608369	
	through T20608379, T20608381, T20608382, and T20608385.	

What Is the Unsafe Condition Presented in This AD?

(d) This AD is the result of reports of inadvertent and undetected engagement of the autopilot system. The actions specified in this AD are intended to prevent unintentionally engaging the KAP 140 autopilot computer system, which could cause the pilot to take inappropriate actions.

What Must I Do To Address This Problem?

(e) To address this problem, you must do the following: Actions Compliance Procedures

Actions	Compliance	Procedures
(1) For airplanes previously affected	Within the next 100	Follow Cessna Service
by AD 2003-24-13: install the	hours time-in-service	Bulletin SB02-22-01, dated
update to the KC 140 autopilot	(TIS) after January	November 25, 2002, and
computer system operating	20, 2004 (the	Honeywell Service Bulletin
software.	effective date of AD	No: KC 140-M1, dated
	2003-24-13), unless	August 2002, as specified in
	already done.	Honeywell Installation
		Bulletin No. 491, Rev. 3,

		dated April 2003.
(2) For airplanes previously affected	Prior to further flight	Follow Honeywell Service
by AD 2003-24-13: do the	after installing the	Bulletin No: KC 140-M1,
following: (i) Change the unit	update to the KC 140	dated August 2002, as
part number by attaching flavor	autopilot computer	specified in Cessna Service
sticker, part number (P/N)	system operating	Bulletin SB02-22-01, dated
057-02203-0003, on the unit's serial	software as specified	November 25, 2002.
tag; (ii) Attach an M decal, P/N	in paragraph (e)(1) of	
057-02984-0501, in front of the unit	this AD, unless	
serial number (this indicates that the	already done.	
unit's P/N has been changed); and		
(iii) Attach a software mod tag, P/N		
057-05287-0301, in place of the old		
tag to indicate the software change		
to SW MOD 03/01.		
(3) For airplanes not affected by AD	Within the next 100	Follow Honeywell
2003-24-13: install the update to the	hours time-in-service	Installation Bulletin No. 491,
KC 140 autopilot computer system	(TIS) after September	Rev. 3, dated April 2003;
operating software.	12, 2004 (the	Cessna Service Bulletin
	effective date of this	SB02-22-01, dated
	AD).	November 25, 2002;
		Honeywell Service Bulletin
		No: KC 140-M1, dated
		August 2002; and Cessna
		Single Engine Service
		Bulletin SB98-22-01, dated
		May 18, 1998, as applicable.
(4) For all affected airplanes: install	As of September 12,	Not applicable.
only KC 140 autopilot computer	2004 (the effective	
systems, part number (P/N)	date of this AD).	
065-00176-2501, P/N		
065-00176-2602 , P/N		
065-00176-5001, P/N		
065-00176-5101, P/N		
065-00176-5201, P/N		

065-00176-5402, or P/N	
065-00176-7702, that have been	
modified as specified in paragraphs	
(e)(1), (e)(2), and (e)(3) of this AD.	

(f) You may request a revised flight manual supplement from Cessna at the address specified in paragraph (h) of this AD.

May I Request an Alternative Method of Compliance?

- (g) You may request a different method of compliance or a different compliance time for this AD by following the procedures in 14 CFR 39.19.
- (1) Unless FAA authorizes otherwise, send your request to your principal inspector. The principal inspector may add comments and will send your request to the Manager, Wichita Aircraft Certification (ACO), FAA. For information on any already approved alternative methods of compliance, contact Dan Withers, Aerospace Engineer, Wichita Aircraft Certification Office (ACO), FAA, 1801 Airport Road, Mid-Continent Airport, Wichita, Kansas 67209; telephone: (316) 946-4196; facsimile: (316) 946-4407.
- (2) Alternative methods of compliance approved in accordance with AD 2003-24-13, which is superseded by this AD, are approved as alternative methods of compliance with this AD.

Does This AD Incorporate Any Material by Reference?

(h) You must do the actions required by this AD following the instructions in Cessna Single Engine Service Bulletin SB98-22-01, dated May 18, 1998; Cessna Single Engine Service Bulletin SB02-22-01, dated November 25, 2002; Honeywell Service Bulletin No: KC 140-M1, dated August 2002; and Honeywell Installation Bulletin No. 491, Rev. 3, dated April 2003. The Director of the

Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may get a copy from Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277; telephone: (316) 517-5800; facsimile: (316) 942-9006 and Honeywell, Business, Regional, and General Aviation, 23500 W. 105th Street, Olathe, Kansas 66061. You may review copies at FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri 64106; or 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.

Footer Information
Issued in Kansas City, Missouri, on July 21, 2004.
Dorenda D. Baker,
Manager, Small Airplane Directorate,
Aircraft Certification Service.
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五. 生效日期: 2004年9月12日

六. 颁发日期: 2004年8月26日

七. 联系人: 钟颖芬 民航中南地区管理局适航审定处 020-86122503