The National FAA Safety Team Presents

Understanding Airworthiness Directives (ADs)

Produced by AFS-850 The FAA Safety Team (FAASTeam)





Welcome

- Exits
- Restrooms
- Emergency Evacuation
- Breaks
- Sponsor Acknowledgment
- Other information





Introduction

- Missed ADs cause accidents
- Who can perform ADs
- Who is responsible





Objective

At the conclusion of this program, attendees will have a better understanding of the principles of ADs and will know who is responsible for compliance, performance, and record keeping.



Airworthiness Directives are Serious Documents



Airworthiness Directives defined:

Airworthiness Directives are legally enforceable rules that apply to the following products:

- Aircraft
- Aircraft engines
- Propellers
- Appliances





When are ADs issued?

FAA issues an airworthiness directive when we find that:

(a) An unsafe condition exists in the product

(b) The condition is likely to exist or develop in other products of the same type design.





What is the purpose of ADs?

ADs are used to notify aircraft owners and other interested persons of unsafe conditions and to specify the conditions under which the product may continue to be operated.

Mandatory

Dates Hours





Required Actions

- Airworthiness Directives specify
 - inspections
 - conditions and limitations
 - actions
- To resolve an unsafe condition





Code of Federal Regulations

- Airworthiness Directives are Regulations
- FAA publishes Airworthiness Directives in the Federal Register





Product Changes

- Airworthiness Directive Application
- They apply even if:
 - product has been changed by
 - Modifying,
 - Altering
 - Repairing







What if a change in a product affects my ability to accomplish the actions required in an AD?

Request an alternative method of compliance (AMOC)





FAA-Approved Alternative Methods of Compliance

Contact your friendly FSDO maintenance inspector

ADs identify the responsible engineering office

The contact information is at the bottom of all ADs





Ferry Flight

- Flight Standards District Offices' (FSDO) issue special flight permits (ferry permits)
 - ADs should be complied with first
 - Each AD has its own limitations
 - Special requirements
 - The bottom line is safety





ADs conflicting with the service document

- ADs may incorporate manufacturer's service documents
 - The service document becomes part of the AD
 - The service document may be modified by the AD
 - In case of conflict

SERVICE	EROSPACE TECHNOLOGIE BULLETIN Information Pertaining To Y		CATEGORY 3 SB20-01
SUBJECT: PURPOSE: COMPLIANCE	Fuel Screen Assembly, S Augment current schedu During the 100-Hour/Ann	led maintenance instructions	
\$8-912-073UL /	SB-914-055UL	ATTAX	
		SE	
		AIRCRAFT ENGINE	Category 1 MSB94-8D
652 Oliver St			NDATORY
SB-912 SB-914	i-009 / SB-912-071		
		5	SERVICE BULLETIN
and	lacement of oil fil 914 (Series) ystem: 79-00-00 Lubrication		gine Type 912 i, 912
M			
1) Dia	and a structure of the	results procedures exactled in this	publication must be accomplished with
1) Pla	accepted methods in BRP-Rotax GmbH &	accordance with prevailing legal reg	





Properly Certificated Maintainers

Pilots, only if the AD specifically allows it





Responsible for AD Compliance

- 14 CFR Part 91.403
 - Owner or Operator
 - Not the Maintainer





AD Records 14 CFR Part 91.417

- Operators shall keep the current status of:
 - Applicable airworthiness directives (AD)
 - Safety Directives
 - The method of compliance
 - The AD or Safety Directive number
 - Revision date

• If recurring

- time and date when action is required

AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD									
Aircraft: PA-22-135 N2631A				N2631A		<u>S/N 22-903</u>			
Engine: Lycoming 0-290-D2					<u>S/N 4563-21</u>				
Propeller: <u>Sensenich M 76AM2</u>			<u>S/N 6662</u>						
AD & AMEND NUM.	REV. NUM. & DATE	SUBJECT	Date/ Hours At comp.	Method of Comp.	ONE TIME	RECUR- RING	Comp. Due Date/Hrs	AUTHORIZED SIGNATURE & NUMBER	
76-07-12 39-3024	R-1 8-30-77	Bendix ignition switch	11-11-94 1850TT	Operational check and inspection	x			Phil Lomax A&P 00000000	
93-18-03 39-8688	Original 10-29-93	One- piece venturi	3-17-95 1850OTT	Installed one-piece venturi Carb S/N BR-549		x	1900TT	Phil Lomax A&P 000000000	



When must ADs be complied with

- By the due date or time specified in the AD
- ADs may be due between inspections





The Regulation States.....

- 14 CFR (FAR) Part 43 appendix B does not list AD note compliance as Preventative Maintenance
- If the AD says the pilot may perform the work, then they can
- Otherwise... they can't





AD Records

Obvious things

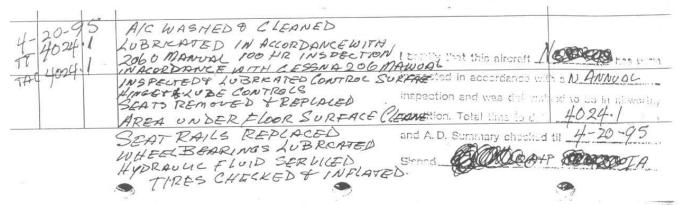
Complied with (C/W) Previously Complied With (PCW) Not Applicable (N/A) In Accordance with (IAW) Overhaul (O/H) Model Number (M/N) Serial Number (S/N)

Make <u>P</u> ip	ber Moo	del <u>P</u> A28-1	61 S/N <u>2</u> 8	8-74	106	69	
AD Number	Subject	Date and Hours of Compliance	Method of Compliance		Recurring	Next Comp. Due.	Authorized Signature
62-19-03 08-28-62	Prop Bolt failure	1044.8 12-01-77	N/A by S/N	X			GeorgeB. Jones AP 272182 IA
64-06-06 04-06-64	Control Wheel failure	1044.8 12-01-77	N/A by S/N	X			GeorgeB. Jones AP 272182 IA
67-20-04 09-27-67	Main landing gear torque link failure	1044.8 12-01-77	N/A by Torque links not drilled for lube fittings	X			GeorgeB. Jones AP 272182 IA
67-26-02 05-22-68	Various Modifications	1044.8 12-01-77	N/A by S/N	X			GeorgeB.Jones AP 272182 IA
77-23-03 11-14-77	Control Rod Binding	1044.8 12-01-77	C/W by installing new style rod end	X			GeorgeB. Jones AP 272182 IA
79-02-05 01-29-79	Fuel Flow Interruption	1308.7 12-30-79	N/A by S/N	X			GeorgeB. Jones AP 272182 IA
79-13-03 06-08-79	Prevent Potential Fire Hazard	1352.2 01-05-80	N/A by S/N	X			GeorgeB. Jones AP 272182 IA
79-22-02 10-26-79	Prevent Possible Fuel Leakage and Fire Haz.	1352.6 01-05-80	N/A by S/N	X			GeorgeB. Jones AP 272182 IA
80-14-03 07-01-80	Disruption of Radio Communication	1422.3 01-05-81	N/A by S/N	X			GeorgeB.Jones AP 272182 IA
81-23-05 03-08-82	Prevent In-Flight Fire	1615.4 05-25-82	C/W by inspection and by installing Piper kit P/N 764-303V	X			GeorgeB . Jones AP 272182 IA
95-26-13 02-05-96	Oil Cooler Hose Failure	2589.2 03-28-96	C/W by installing new		Х	3589.2 03-28-04	GeorgeB. Jones AP 272182 IA
96-10-03 06-14-96	To Prevent Flap Handle Bolt Failure	2596.9 07-15-96	C/W By Inspection and by installing new bolt & bushing	X			GeorgeB. Jones AP 272182 IA



AD Records

- If an AD is N/A
- i.e., AD 78-16-05R1 is not applicable by model number. Model number XX, serial number was found installed





Would you like to get free AD notes?

Regulatory and Guidance Library

The FAA's Regulatory & Guidance Library (RGL) contains many aviation regulatory, certification, and safety information documents. Select a database from the list to the right.

Notifications:

ADs and SAIBs: Click here to create or modify your email subscription for ADs and SAIBs. We currently offer this subscription only for type-certificated products.

free e-mail service

Sign up at http://rgl.faa.gov

Notifications: Parts Manufacturer Approvals ADs and SAIBs: Click here to create or modify your email subscription for ADs and SAIBs. We currently offer this Policy subscription only for type-certificated products. Regulatory Basis Tool Contact: Special Airworthiness Information Bulletins Special Conditions If you have a technical guestion or comment about a document in the RGL, please contact the responsible person Supplemental Type Certificates or office listed in the document If you have a question or comment about the status of documents in the RGL, or you can't find contact information Technical Standard Orders and Index for your technical question about a specific document, please contact us at rgl@faa.gov. Type Certificate Data Sheets Tips: Additional Links For a short and simple path to RGL, type "rgl.faa.gov" into your address bar If you are an FAA user logged in to Lotus Notes, you can click here to access RGL in your Notes client. Aircraft Certification Homepage Draft Documents Open for Commen RGL v17.1 - July 2021



Safety Management Systems (SMS) Coming to General Aviation



https://www.faa.gov/about/initiatives/gasafetyoutreach





Questions?

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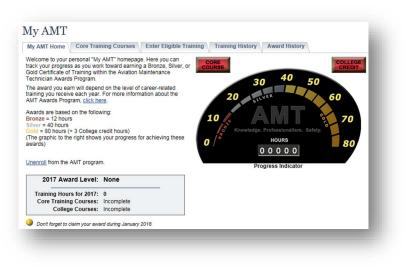


Training and Peace of Mind

Technical Training

- Safety Related Training
- Document in My AMT







Thank you for attending

You are vital members of our GA safety community







