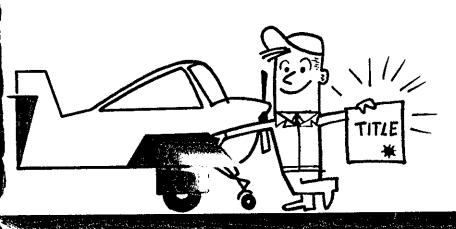
PLANE SENSE





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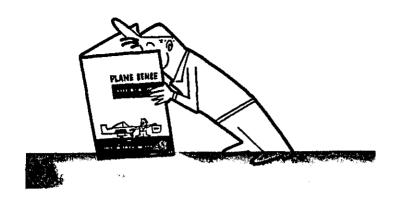


PREFACE

Plane Sense has been prepared by the Department of Transportation, Federal Aviation Administration, Flight Standards-Service, Maintenance Division. The purpose of the booklet is to acquaint the prospective pilot and aircraft owner with some fundamental information on the requirements for owning and operating an aircraft. It is not a Regulation and it is not intended to interpret Regulations.

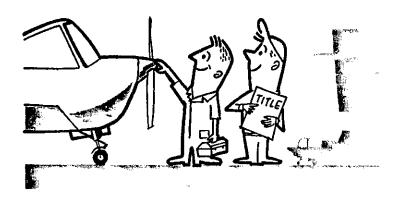
Anyone who is seriously thinking of becoming a pilot or an aircraft owner should familiarize himself with the Federal Aviation Regulations listed in the last chapter of this booklet. In addition, because the aviation picture is constantly changing, it is suggested that you contact your nearest FAA General Aviation District Office where the personnel will be glad to acquaint you with the latest requirements.

This booklet supersedes the 1967 edition, AC 20-5A.



CONTENTS

	Page
Preface	iii
Buying a used aircraft	1
Aircraft owner responsibilities	4
Certificate of Registration and Bill of Sale	6
Airworthiness Certificate	12
Aircraft maintenance	15
Special Flight Permits	18
Airworthiness Directives	19
Inspection Aids	21
Related Information and Costs	25



BUYING A USED AIRCRAFT

When buying a used aircraft, it would be wise to have the selected aircraft inspected by a qualified person or facility before you buy. The condition of the aircraft and the state of its maintenance records can be determined by persons knowledgable on the particular make and model. These include a certificated airframe and powerplant (A and P) mechanic, or an approved repair station.

- Q. What is meant by a "clear title"?
- A. A "clear title" means that there are no encumbrances such as liens, chattel mortgages, or other unsatisfied claims against the aircraft.
- Q. How can I be sure that the aircraft has a "clear title"?
- A. Either search the aircraft records yourself, or have it done by an attorney or a qualified aircraft titlesearch company.

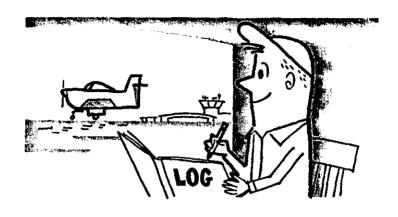
You wouldn't think of purchasing a house until you had the title examined. You should do no less when purchasing an aircraft, which also represents a substantial investment. It is not enough to purchase an aircraft from a reputable distributor or dealer, even these people may sometimes fail to determine the true title status of an aircraft.

There is no substitute for examining the aircraft records to secure a history of the ownership of the aircraft and to determine if there are any outstanding liens or mortgages. This procedure will help avoid delay in registering an aircraft, and the headaches many aircraft purchasers have suffered because they failed to take this one important step before purchasing their aircraft.

All aircraft public records maintained by the Federal Aviation Administration (FAA) are on file at the Department of Transportation, FAA Aeronautical Center; Aircraft Registration Branch, AC-250; P.O. Box 25082; Oklahoma City, Oklahoma 73125.

- Q. What documents may I expect to receive with my new or used aircraft?
- A. 1-Bill of Sale.
 - 2—Standard Airworthiness Certificate, FAA Form 8100-2; or, for other than Standard (Experimental, Restricted, Limited, or Provisional) Certificate of Airworthiness, FAA Form 8130-7.
 - 3-All logbooks, aircraft and engine records.
 - 4—Equipment list.
 - 5-Weight and balance data.
 - 6—Maintenance Manual, service letters, bulletins, etc.
 - 7—Airplane Flight Manual or operating limitations.

- Q. Does a current 100-hour or annual inspection mean that the aircraft is "first-class"?
- A. No. It indicates only that the aircraft was found to be in a condition for safe operation at the time of inspection.
- Q. What should I do before buying an amateur-built or experimental aircraft?
- A. Contact your local FAA maintenance inspector at your General Aviation District Office. The FAA inspector will explain the requirements for experimental certification.
- Q. What should I consider when buying a military surplus aircraft?
- A. Certain military surplus aircraft are not eligible for FAA certification in the STANDARD, RESTRICTED, or LIMITED classifications. Since no civil aircraft may be flown unless certificated, you should discuss this with your local FAA inspector who will advise you of eligible aircraft and certification procedures.



AIRCRAFT OWNER RESPONSIBILITIES

You, as an aircraft owner, will be assuming responsibilities similar to those you have if you own an automobile. Owning an automobile usually means that you must register it in your State of residence and obtain license plates. As the registered owner of an aircraft, you will be responsible for:

- 1—Having a current Airworthiness Certificate appropriately displayed in your aircraft.
- 2-Maintaining your aircraft in an airworthy condition.
- 3—Assuring that maintenance is properly recorded.
- 4—Keeping abreast of current regulations concerning the operation and maintenance of your aircraft.
- 5-Notifying the FAA Aircraft Registry immediately of any change of permanent mailing

address or of the sale or export of your aircraft.

Some States require that your car be inspected periodically (most States every 6 to 12 calendar months) to assure that it is in a safe operating condition. Your aircraft will have to be inspected within every 12 calendar months in order to maintain a current Airworthiness Certificate. As with your automobile, accidents involving your aircraft must also be reported.

Some similarities between automobile and aircraft responsibilities are shown in the following chart:

Automobile/Airplane Comparison Chart

Responsibility	Automobile	Aircraft
Registration	Yes	Yes
Annual inspection	Yes	Yes
Compulsory insurance (most States)	Yes	No
Reporting of accidents	Yes	Yes
Required maintenance records	No	Yes
Maximum speed restrictions	Yes	Yes
Controlled maintenance	No	Yes



CERTIFICATE OF REGISTRATION AND BILL OF SALE

If you purchase an aircraft, you must apply for a Certificate of Registration before you fly it. An aircraft is eligible for registration only if it is owned by a citizen of the United States, and is not registered under the laws of any foreign country.

The Application for Aircraft Registration, FAA Form 8050-1 (see the example on Page 7) consists of an original (white) and two duplicate copies (green and pink). Instructions for preparing and submitting the form are attached to the top of the form.

When applying for a Registration Certificate, an aircraft bill of sale or other evidence of ownership must be submitted. A bill of sale which meets the recording requirements of the Federal Aviation Administration is the FAA Form 8050-2, Aircraft Bill of Sale (see the example on page 8).

It must be emphasized that before the aircraft can be legally flown, you must have sent a duly executed Application for Aircraft Registration and the proper fees to the FAA Aircraft Registry. The Temporary or "pink"

PREPARATION. Prepare this form in triplicate. Except for signatures, all data should be typewritten or printed. Signatures must be in ink. The name of the applicant should be identical to the name of the purchaser shown on AC Form 8050.2, Aircraft Bill of Sale, its equivalent, or conditional sales contract, whichever is applicable.

Please send the WHITE original and GREEN copy of this application to the FAA Aircreft Registry, P. O. Box 25082, Oklahoma City, Oklahoma 73125; RETAIN PINK COPY (see note on application)

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AC Form 8030-1 (7-68) Formerly FAA Form 8030 1 (0032-626-9001)

UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION PEDERAL AVIATION ADMINISTRATION

AIRCRAFT BILL OF SALE INFORMATION

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copy of the application should be placed in your aircraft until you receive the permanent Certificate of Registration from the Federal Aviation Administration. When received, the Certificate of Aircraft Registration, FAA Form 8050-3 (see the example on pages 10 and 11), should replace the "pink" copy of FAA Form 8050-1 in the aircraft.

Aircraft last registered in a foreign country may not be operated until the PERMANENT registration certificate is displayed in the aircraft.

The Certificate of Registration expires when:

- (a) the aircraft is registered under the laws of a foreign country;
- (b) the registration of the aircraft is cancelled at the written request of the owner;
- (c) the aircraft is totally destroyed or scrapped; or
- (d) the ownership of the aircraft is transferred.

When the aircraft is sold, the previous owner (seller) must notify the FAA by filling in the back of his Certificate of Registration, as indicated in the example on pages 10-11 and mailing it to the FAA Aircraft Registry.

Another form of registration certificate, FAA Form 8050-6, Dealers Aircraft Registration Certificate, which is used by aircraft manufacturers and dealers, may not be used for purposes other than those necessary for or incidental to sale of the aircraft, or for flight checks.

The FAA does not issue any certificate of ownership or endorse any information with respect to ownership on a certificate of Aircraft Registration.

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55	SMITH, MOE: 102 E. 9th Kansas City 12903	Street	This certificate is issued for registre tien purposes only and in not a certificate of the company and in not a certificate of title. The federed Avigation Administration does not determine rights all currents as between private persons.
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POSTAGE AND FEES PAID FEDERAL AVIATION ADMIN.

OFFICIAL BUSINESS

TO:

SMITH, HOE H. 102 E. 9th Street Kansas City, Missouri 12903

CRINCE OF ADDRESS

Federal Aviation Republicus rentire that was remert within 30 days any change in percentent maling address. A revised Certificate of Aircraft Registration will be issued without charge.

REPLACEMENT OF CERTIFICATE

If this pertificate is last, destroyed, or mutilated, a fundicate may be extraord at the written respect of the habiter. Send year recreek and \$2.00 (check or money order made payable ta Federal Ariation Administration) to :

> FAA Aiccraft Registre P.D. Rex 25022 Okiahawa City, Okiahawa 73125

NOTE: All correspondence should describe the revisitation

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EFFECT OF REGISTRATION

be evidence of ownership of average in any proceeding in which such ownership by a particular person is, or may be, in name."

It is the responsibility of presume meeding information as to recorded instruments affecting the absent idea. tified in this certificate to make a personal search of the seconds or avail themselves of the secures of an agent or attorier. Incluments affering ownership and encombrance are received by the Federal Assetton Administration for recordation. Such records are public records open for impaction in the FAA Aviation Becomes Building Accomplished Control Obligations City, Obligations.

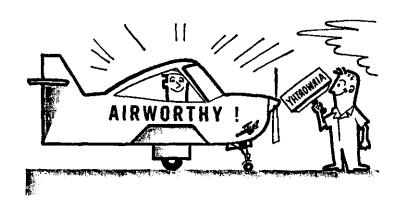
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Citizenship.	NAME
Thirty days have elapsed elect the death of the registered events.	ADDRESS

UPON EXPIRATION FOR ANY OF THE FOREGUING REASONS, CHECK THE APPROPRIATE BOX ABOVE. SIGN IN BUK BELOW, AND RETURN THIS CERTIFICATE ID : FAA AIRCRAFT REEISTRY, P.O. BOX 25002, OKLAHOMA CITY, OKLA. 73125



AIRWORTHINESS CERTIFICATE

An Airworthiness Certificate is issued by a representative of the Federal Aviation Administration after the aircraft has been inspected and it is found that it meets the requirements of the Federal Aviation Regulations (FARs), and is found to be in a condition for safe operation. The Certificate must be displayed in the aircraft according to applicable Regulations.

The STANDARD AIRWORTHINESS CERTIFI-CATE, FAA Form 8100-2 (see example on page 13) is issued for all original and recurrent certification of aircraft in the STANDARD classification only (normal, utility, acrobatic, gliders, manned free balloon, and transport categories). An explanation of each term in the Certificate follows:

ITEM 1. Nationality—The "N" means that the aircraft is of United States registry. Registration Marks—The number, in this case 0000, is the registration number assigned to the aircraft.

ITEM 2. Indicates the make and model of the aircraft.

ITEM 3. This is the serial number assigned to the aircraft, as noted on the aircraft data plate.

- ITEM 4. Indicates that the aircraft, in this case, must be operated in accordance with the limitations specified for the NORMAL category.
- ITEM 5. Indicates that the aircraft is considered in a condition for safe operation at the time of inspection and issuance of the Certificate. Any exemptions from the applicable airworthiness standards are briefly noted here, and the exemption number. The word NONE will be indicated if no exemption exists.
- ITEM 6. Indicates that the Airworthiness Certificate is in effect indefinitely if the aircraft is maintained in accordance with FAR Part 91, General Operating and Flight Rules, which requires inspections and maintenance as necessary to keep the aircraft in a condition for safe operation. Also noted here is the date the certifi-

DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE I. NATIONALITY AND REGISTRATION MARKS RI 2345 Boeing STANDARD Registration Marks Regis

cate was issued, the signature of the FAA Representative, and his office identification.

FAA FORM 8100-2 (7-47) FORMERLY FAA FORM 1362

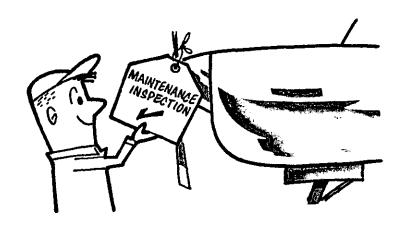
The CERTIFICATE OF AIRWORTHINESS, FAA Form 8130-7 (see the example on page 14) is issued for

all aircraft certificated in other than the STANDARD classifications EXPERIMENTAL, RESTRICTED, LIMITED, and PROVISIONAL).

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If an aircraft is classed as other than STANDARD, it is suggested that you contact your local FAA General Aviation District Office for an explanation of the pertinent airworthiness requirements and the limitations of such a certificate.

In summary, the FAA initially determines that your aircraft is in a condition for safe operation and conforms to type design, then issues an Airworthiness Certificate. The Certificate remains in effect so long as the aircraft receives the required maintenance, is operated within its specified limitations, and is not transferred or sold. Flight safety relies in part on the condition of the aircraft, which may be determined on inspection by mechanics, approved repair stations, or manufacturers who meet specific requirements of FAR Part 43.



AIRCRAFT MAINTENANCE

Maintenance means the inspection, overhaul, and repair of aircraft, including the replacement of parts. A PROPERLY MAINTAINED AIRCRAFT IS A SAFE AIRCRAFT.

Inspections

FAR Part 91 places primary responsibility on the owner or operator for maintaining an aircraft in an airworthy condition. Certain inspections must be performed on your aircraft and you must maintain the airworthiness of the aircraft during the time between required inspections by having any unsafe defects corrected.

Although maintenance requirements will vary for different types of aircraft, experience shows that most aircraft will need some type of preventive maintenance every 25 hours flying time or less, and minor maintenance at least every 100 hours. This is influenced by the kind of operation, climatic conditions, storage facilities, and age and construction of the aircraft. Most

manufacturers supply service information which should be used in maintaining your aircraft.

Annual Inspection.—An airplane must have an annual inspection every 12 calendar months by a certificated airframe and powerplant mechanic holding an inspection authorization, an appropriately rated certificated repair station, or the manufacturer of the aircraft, if he meets the specific requirements of the Regulations. The aircraft may not be operated unless this inspection has been performed within the preceding 12 calendar months. However, the aircraft with an expired annual inspection may be operated under a special flight permit for the purpose of flying to a base where an annual inspection may be performed.

100-Hour Inspection.—An aircraft used to carry passengers for hire, or for flight instruction for hire, must be inspected within each 100 hours of time in service by a certificated airframe and powerplant mechanic, an appropriately rated certificated repair station, or the manufacturer of the aircraft if he meets the specific requirements of the Regulations. The annual inspection is acceptable as a 100-hour inspection, but the reverse is not true.

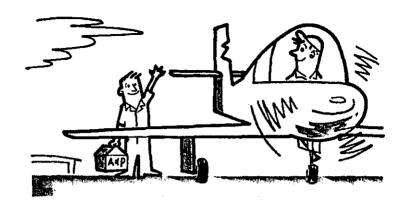
Daily and Preflight Inspection.—The pilot or owner may conduct a daily inspection, if so desired, but the pilot should always perform a thorough preflight inspection before every flight.

Preventive Maintenance

A certificated pilot may perform line-maintenance, preservation and upkeep, known as preventive maintenance, on an aircraft owned or operated by him. Typical preventive maintenance operations are found in FAR Part 43, Maintenance, Preventive Maintenance, Rebuilding and Alteration. Part 43 also contains other rules to be followed in the maintenance of aircraft.

Repairs and Alterations

Except as noted under "Preventive Maintenance," all repairs and alterations are classed as either major or minor. Major repairs or alterations must be approved for return to service by an appropriately rated certificated repair station, an airframe and powerplant mechanic holding an inspection authorization, or a representative of the Administrator. Minor repairs and alterations may be returned to service by a certificated airframe and powerplant mechanic or an appropriately certificated repair station.

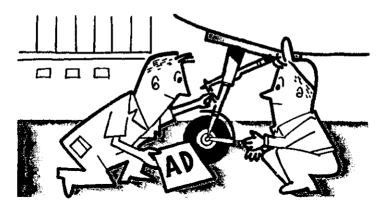


SPECIAL FLIGHT PERMITS

A special flight permit is issued to operate an aircraft that may not currently meet applicable airworthiness requirements, but is determined to be safe for a specific flight. Since the aircraft may not meet the current airworthiness requirements, an FAA inspector may personally inspect the aircraft or may require the aircraft to be inspected by a certificated A&P mechanic or certificated repair station to determine its safety for the intended flight.

The special flight permit is issued to allow the aircraft to be flown to a base where repairs or alterations are to be made, or to a point of export, or for flyaway delivery to some new owner or place; or for operation in excess of its maximum certificated takeoff weight for flight beyond its normal range where adequate landing or fuel facilities are not available.

Further assistance and the necessary forms may be obtained from your local Flight Standards District Office.



AIRWORTHINESS DIRECTIVES

Airworthiness Directives, commonly referred to as "A.D.s," provide aircraft operators with information on unsafe conditions. The A.D.s specify the aircraft or component found to be unsafe by the FAA, and the conditions, limitations, or inspections, if any, under which the aircraft may continue to be operated. In determining the corrective action to be taken as specified in the A.D.s, the FAA considers the effectiveness of operating restrictions (safety), the nature and amount of work involved for repair of the defect, the availability of replacement parts, and recommendations of the manufacturer and operators.

The Airworthiness Directives are issued under FAR Part 39. When a condition is discovered which makes the aircraft unsafe, the corrective action specified in the A.D. must be taken.

The Regulations require a chronological record to be maintained of all A.D.s on which action has been taken. This record must include the date, A.D. number, a brief description of the method of compliance, and the signature and certificate number of the repair

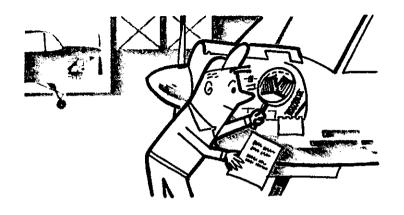
station or mechanic who complied with the A.D. For ready reference, many aircraft owners have a chronological listing of the pertinent A.D.s in the back of their logbooks.

It is the owner's responsibility to assure compliance with all pertinent A.D.s. This includes those A.D.s that require recurrent or continuing action; for example, an A.D. may require a certain inspection every 50 hours, which means that the particular inspection shall be accomplished and recorded every 50 hours.

The Airworthiness Directives consist of a basic summary containing all of the valid A.D.'s previously published and biweckly supplements. The summary is divided into two volumes. Volume I includes directives applicable to small aircraft (12,500 pounds or less maximum certificated takeoff weight). Volume II includes directives applicable to large aircraft (more than 12,500 pounds). The summary may be obtained from the Superintendent of Documents by asking for Summary of Airworthiness Directives, Volume I or Volume II.

The Summary of Airworthiness Directives may be ordered from:

The Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402



INSPECTION AIDS

To provide an interchange of service experience to aid in the early detection of service difficulties, the FAA has developed a publication called General Aviation Inspection Aids. The information is brief and advisory. Compliance is not mandatory. The Aids are prepared for pilots, mechanics, operators of repair agencies, and others inspecting and maintaining general aircraft. The information is not intended to be critical of any manufacturer or his product, but is intended to alert you to service experience and, where pertinent, direct your attention to the manufacturer's recommended corrective measures.

The FAA encourages aircraft owners, pilots, and mechanics to report promptly all service difficulties on the Malfunction or Defect Report (commonly called M or D Report), FAA Form 8330-2, as shown in the examples on pages 23 and 24. Copies of this form may be obtained free from airframe and powerplant mechanics, authorized inspectors, repair stations, or any FAA General Aviation District Office.

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FAA FORM 8330-2 (1-69) SUPERSEDES FAA FORM 1226 AND FAA FORM 8330-1

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, D.C. 2009

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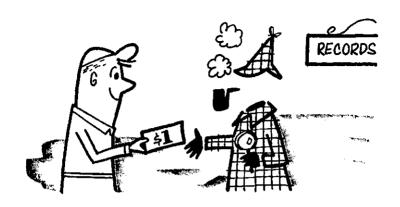
PULLEY

Maintenance Analysis Center, AC–230 Flight Standards Technical Division FAA Aeronautical Center P.O. Box 25082 Oklahoma City, Oklahoma 73125

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The FAA reviews the reports and selects pertinent items for publication in the Aids. The reports are also coordinated with appropriate manufacturers to advise them of the intended publication of items concerning their products. This allows them an opportunity to submit to the FAA any comments or recommendations. Through this exchange of information, improved standards have been developed and have proved to be of great benefit to aircraft owners and operators.

In addition to an annual summary of the Aids (the publishing date is August) which contains all the previously published M or Ds that are still current, 11 monthly supplements (September through July) containing additional M or Ds are published. The Aids are grouped into two sections. The first section, "Inspection Aids," is devoted to inspection items which apply to specific models of aircraft, engines, and components. The second section, "Maintenance Notes," contains general information and, in some instances, may be applicable to more than one specific aircraft. The summary and supplements are available by subscription from the Superintendent of Documents.



RELATED INFORMATION AND COSTS

References have been made throughout to certain services, manuals, and documents helpful to you as prospective airplane owner and pilot. The fees charged for these aids are nominal. The cost for a title search is usually \$10.00 to \$15.00.

The Federal Aviation Administration is reissuing the Federal Aviation Regulations (FAR) in a volume system to be sold on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

The purchase of a FAR volume will establish your subscription service with the Superintendent of Documents for automatic receipt of changes to the volume as issued by FAA.

The volume structure is:

Volume	FAR Part
I	1.
II	11, 13, 15, 21, 37, 39, 45, 47, 49, 183, 185,
	187, 189.
III	23, 25, 36.

l'olumo	FAR Part
IV	27, 29, 31, 33, 35.
V	43, 145, 149,
VI	91, 93, 99, 101, 103, 105.
VII	121, 123, 127, 129.
VIII	133, 135, 137,
IX	61, 63, 65, 67, 141, 143, 147.
X	151, 153, 155, 159, 165, 167.
XI	71, 73, 75, 77, 95, 97, 157, 169, 171.

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