



Pilot's Operating Handbook And FAA Approved Airplane Flight Manual SKYHAWK SP



 Member of GAMA

Model 172S

NAV III Avionics - KAP 140 Autopilot

Serials 172S9810 thru 172S10467
and 172S10469 thru 172S10506
and 172S10508 thru 172S10639
and 172S10641 thru 172S10655

SERIAL NUMBER 172S 10160
REGISTRATION NUMBER SE-MBN

This publication includes the material required to be furnished to the pilot by 14 CFR 23.

APPROVED BY

FAA APPROVED UNDER 14 CFR PART 21 SUBPART J
Cessna Aircraft Co.
Distribution Order Authorization EDA-00000-02

DATE OF APPROVAL 02-26-05

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CESSNA AIRCRAFT COMPANY
WICHITA, KANSAS, USA

ORIGINAL ISSUE - 25 FEBRUARY 2005

REVISION 5 - 29 AUGUST 2014

172SPHAUS-05

U.S.

B3254

**THIS MANUAL WAS PROVIDED FOR THE
AIRPLANE IDENTIFIED ON THE TITLE
PAGE ON _____.
SUBSEQUENT REVISIONS SUPPLIED BY
CESSNA AIRCRAFT COMPANY MUST BE
PROPERLY INSERTED.**

Cessna Aircraft Company

CESSNA
MODEL 172S NAV III
KAP 140 AUTOPILOT

INTRODUCTION

**PILOT'S OPERATING HANDBOOK
AND
FAA APPROVED AIRPLANE FLIGHT MANUAL**

**CESSNA MODEL 172S
NAV III AVIONICS OPTION - KAP 140 AUTOPILOT**

Serials

172S9810 thru 172S10467

and

172S10469 thru 172S10506

and

172S10508 thru 172S10639

and

172S10641 thru 172S10655

ORIGINAL ISSUE - 25 FEBRUARY 2005

REVISION 5 - 29 AUGUST 2014

PART NUMBER: 172SPHAUS-05

CONGRATULATIONS

Congratulations on your purchase and welcome to Cessna ownership! Your Cessna has been designed and constructed to give you the most in performance, value and comfort.

This Pilot's Operating Handbook has been prepared as a guide to help you get the most utility from your airplane. It contains information about your airplane's equipment, operating procedures, performance and suggested service and care. Please study it carefully and use it as a reference.

The worldwide Cessna Organization and Cessna Customer Service are prepared to serve you. The following services are offered by each Cessna Authorized Service Facility:

- THE CESSNA AIRPLANE WARRANTIES, which provide coverage for parts and labor, are upheld through Cessna Authorized Service Facilities worldwide. Warranty provisions and other important information are contained in the Customer Care Program Handbook supplied with your airplane. The Customer Care Card assigned to you at delivery will establish your eligibility under warranty and should be presented to any Cessna Authorized Service Facility at the time of warranty service.
- FACTORY TRAINED PERSONNEL to provide you with courteous, expert service.
- FACTORY APPROVED SERVICE EQUIPMENT to provide you efficient and accurate workmanship.
- A STOCK OF GENUINE CESSNA SERVICE PARTS are available when you need them.
- THE LATEST AUTHORITATIVE INFORMATION FOR SERVICING CESSNA AIRPLANES. Cessna Authorized Service Facilities have all of the current Maintenance Manuals, Illustrated Parts Catalogs and various other support publications produced by Cessna Aircraft Company.

A current Cessna Authorized Service Facilities Directory accompanies your new airplane. The Directory is revised annually, and a current copy can be obtained from your nearest Cessna Authorized Service Facility.

We urge all Cessna owners/operators to utilize the benefits available within the Cessna Organization.

PERFORMANCE - SPECIFICATIONS

*SPEED:

Maximum at Sea Level 126 KNOTS
Cruise, 75% Power at 8500 Feet. 124 KNOTS

CRUISE: Recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45 minutes reserve.

75% Power at 8500 Feet Range - 518 NM
53 Gallons Usable Fuel Time - 4.26 HOURS
Range, 45% Power at 10,000 Feet Range - 638 NM
53 Gallons Usable Fuel Time - 6.72 HOURS

RATE OF CLIMB AT SEA LEVEL 730 FPM

SERVICE CEILING 14,000 FEET

TAKEOFF PERFORMANCE:

Ground Roll 960 FEET
Total Distance Over 50 Foot Obstacle 1630 FEET

LANDING PERFORMANCE:

Ground Roll 575 FEET
Total Distance Over 50 Foot Obstacle 1335 FEET

STALL SPEED:

Flaps UP, Power Idle 53 KCAS
Flaps FULL, Power Idle 48 KCAS

MAXIMUM WEIGHT:

Ramp 2558 POUNDS
Takeoff 2550 POUNDS
Landing 2550 POUNDS

(Continued Next Page)

PERFORMANCE - SPECIFICATIONS (Continued)

STANDARD EMPTY WEIGHT	1663 POUNDS
MAXIMUM USEFUL LOAD	895 POUNDS
BAGGAGE ALLOWANCE	120 POUNDS
WING LOADING	14.7 lbs/sq. ft.
POWER LOADING	14.2 lbs/HP
FUEL CAPACITY	56 GALLONS
OIL CAPACITY	8 QUARTS
ENGINE: Textron Lycoming	IO-360-L2A 180 BHP at 2700 RPM
PROPELLER:	
Fixed Pitch, Diameter	76 INCHES

NOTE

*Speed performance is shown for an airplane equipped with speed fairings which increase the speeds by approximately 2 knots. There is a corresponding difference in range, while all other performance figures are unchanged when speed fairings are installed.

The above performance figures are based on airplane weights at 2550 pounds, standard atmospheric conditions, level, hard-surfaced dry runways and no wind. They are calculated values derived from flight tests conducted by Cessna Aircraft Company under carefully documented conditions and will vary with individual airplanes and numerous factors affecting flight performance.

COVERAGE

The Pilot's Operating Handbook (POH) in the airplane at the time of delivery from Cessna Aircraft Company contains information applicable to the Model 172S Nav III airplanes by serial number and registration number shown on the Title Page. This POH is applicable to 172S airplanes, Serials 172S9810 thru 172S10467 and 172S10469 thru 172S10506 and 172S10508 thru 172S10639 and 172S10641 thru 172S10655, equipped with the NAV III Avionics Option and Bendix/King KAP 140 Autopilot (if installed). All information is based on data available at the time of publication.

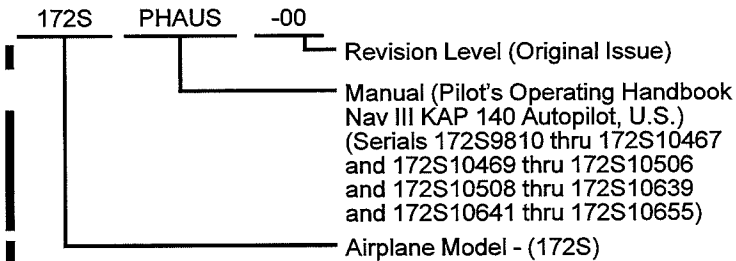
This POH consists of nine sections that cover all operational aspects of a standard equipped airplane. Section 9 contains the supplements which provide amended operating limitations, operating procedures, performance data and other necessary information for airplanes conducting special operations for both standard and optional equipment installed in the airplane.

Supplements are individual documents, and may be issued or revised without regard to revision dates which apply to the POH itself. These supplements contain a Log of Effective Pages, which should be used to determine the status of each supplement.

ORIGINAL ISSUE AND REVISIONS

This Pilot's Operating Handbook and FAA Approved Airplane Flight Manual is comprised of the original issue and any subsequent revisions. To make sure that information in this manual is current, the revisions must be incorporated as they are issued. As revisions are issued, they will be noted in the Log of Effective Pages.

The part number of this manual has also been designed to further aid the owner/operator in determining the revision level of any POH. Refer to the example below for a breakdown:



It is the responsibility of the owner to maintain this POH in a current status when it is being used for operational purposes. Owners should contact a Cessna Authorized Service Facility whenever the revision status of their POH is in question.

Revisions are distributed to owners of U.S. Registered aircraft according to FAA records at the time of revision issuance, and to Internationally Registered aircraft according to Cessna Owner Advisory records at the time of issuance. Revisions should be read carefully upon receipt and incorporated in this POH.

REVISION FILING INSTRUCTIONS

REGULAR REVISIONS

Pages to be removed or inserted in the Pilots' Operating Handbook and FAA Approved Airplane Flight Manual are determined by the Log of Effective Pages located in this section. This log contains the page number and revision level for each page within the POH. As revisions to the POH occur, the revision level on effected pages is updated. When two pages display the same page number, the page with the latest revision level shall be inserted into the POH. The revision level on the Log Of Effective Pages shall also agree with the revision level of the page in question.

TEMPORARY REVISIONS

Under limited circumstances, temporary revisions to the POH may be issued. These temporary revisions are to be filed in the applicable section in accordance with filing instructions appearing on the first page of the temporary revision.

Temporary Revisions will remain current until they have either been incorporated into the next POH revision or another temporary revision has been issued that supersedes that temporary revision. Each temporary revision is issued with a current List of Temporary Revisions that is to be inserted opposite the first page of the Log of Effective Pages in the front of the POH and will supersede any previously issued List of Temporary Revisions. This list is used to track the status of temporary revisions issued against this POH and is to be removed and discarded at the next revision to the POH. Removal of temporary revisions from the POH is accomplished per the removal instructions on each temporary revision.

IDENTIFYING REVISED MATERIAL

A bar will extend the full length of deleted, new, or revised text added on new or previously existing pages. This bar will be located adjacent to the applicable text in the margin on the left side of the page.

A bar in the footer will indicate a revision to the header/footer, a new page, format or spelling/grammar changes and/or that information has slipped to or from that page.

A bar located adjacent to the figure number in the margin on the left side of the page will be used to indicate that the figure number only has changed.

An asterisk located at the end of a figure number will be used to indicate that an illustration has been revised or is all new material (Ex: Figure 3-4*).

All revised pages will carry the revision number opposite the page number on the applicable page. A list of revisions is located at the beginning of the Log Of Effective Pages.

WARNINGS, CAUTIONS AND NOTES

Throughout the text, warnings, cautions and notes pertaining to airplane handling and operations are utilized. These adjuncts to the text are used to highlight or emphasize important points.

WARNING

OPERATING PROCEDURES, TECHNIQUES, ETC., WHICH CAN RESULT IN PERSONAL INJURY OR LOSS OF LIFE IF NOT CAREFULLY FOLLOWED.

CAUTION

OPERATION PROCEDURES, TECHNIQUES, ETC., WHICH CAN RESULT IN DAMAGE TO EQUIPMENT IF NOT CAREFULLY FOLLOWED.

NOTE

An operating procedure, technique, etc., which is considered essential to emphasize.

LAND AS SOON AS POSSIBLE

Land at the nearest suitable airport. Unless otherwise specified, use Normal Procedures for Approach, Before Landing, and Landing. Extreme situations can require an off-airport landing. Primary consideration is safety of occupants.

LAND AS SOON AS PRACTICAL

Land at a suitable airport. Unless otherwise specified, use Normal Procedures for Approach, Before Landing, and Landing. The primary consideration is the urgency of the emergency or abnormal situation. Continuing to the destination or an alternate with appropriate service facilities can be an option.

LOG OF EFFECTIVE PAGES

Use this page to determine the currency and applicability of your POH.

Pages affected by the current revision are indicated by an asterisk (*) preceding the pages listed under the Page Number column.

<u>Revision Level</u>	<u>Date of Issue</u>	<u>Revision Level</u>	<u>Date of Issue</u>
Original Issue	25 February 2005	Revision 3	22 December 2005
Revision 1	30 June 2005	Revision 4	12 October 2006
Revision 2	19 July 2005	Revision 5	29 August 2014

Page Number	Page Status	Revision Number
* Title	Revised	5
* Assignment Record	Revised	5
* i/ii thru xiii/xiv	Revised	5
* xv/xvi	Added	5
* 1-1/1-2 thru 1-28	Revised	5
* 1-29 thru 1-30	Added	5
* 2-1/2-2 thru 2-24	Revised	5
* 2-25 thru 2-28	Added	5
* 3-1 thru 3-36	Revised	5
* 3-37 thru 3-38	Added	5
* 4-1 thru 4-50	Revised	5
* 4-51 thru 4-52	Added	5
* 5-1/5-2 thru 5-24	Revised	5
* 6-1/6-2 thru 6-24	Revised	5

(Continued Next Page)

LOG OF EFFECTIVE PAGES (Continued)

Page Number	Page Status	Revision Number
* 7-1 thru 7-72	Revised	5
* 7-73 thru 7-79/7-80	Added	5
* 8-1 thru 8-25/8-26	Revised	5
* 9-1/9-2	Revised	5

for APPROVED BY 

John Bouma, Lead ODA Administrator
Cessna Aircraft Company
Organization Delegation Authorization ODA-100129-CE
FAA Approved Under 14 CFR Part 183 Subpart D

DATE OF APPROVAL 29 AUGUST 2014

SERVICE BULLETIN CONFIGURATION LIST

The following is a list of Service Bulletins that are applicable to the operation of the airplane, and have been incorporated into this manual. This list contains only those Service Bulletins that are currently active.

<u>Number</u>	<u>Title</u>	<u>Airplane Serial Effectivity</u>	<u>Revision Incorporated</u>	<u>Incorporated in Airplane</u>
SB08-34-03	Forward Looking Terrain Avoidance (FLTA) Alert Over The Open Ocean/Sea	172S9810 thru 172S10467, 172S10469 thru 172S10506, 172S10508 thru 172S10639 and 172S10641 thru 172S10655	5	

TABLE OF CONTENTS

	SECTION
GENERAL	1
LIMITATIONS	2
EMERGENCY PROCEDURES	3
NORMAL PROCEDURES	4
PERFORMANCE	5
WEIGHT AND BALANCE/EQUIPMENT LIST	6
AIRPLANE AND SYSTEM DESCRIPTION	7
HANDLING, SERVICE AND MAINTENANCE	8
SUPPLEMENTS	9

