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You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN AERA 795. You'll find the answers to all your questions on the GARMIN AERA 795 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual GARMIN AERA 795
User guide GARMIN AERA 795
Operating instructions GARMIN AERA 795
Instructions for use GARMIN AERA 795
Instruction manual GARMIN AERA 795



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Manual abstract:

@@@Tel: 503/391.3411 Fax 503/364.2138 Garmin (Europe) Ltd, Liberty House, Bulls Copse Road, Hounsdown Business Park, Southampton, SO40 9RB, U.K. Tel: 44/0870.8501241 Fax: 44/0870.8501251 Garmin Corporation, No. 68, Jangshu 2nd Road, Shijr, Taipei County, Taiwan Tel: 886/02.2642.9199 Fax: 886/02.

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Jeppesen® is a registered trademark of Jeppesen, Inc. NavDataTM is a trademark of Jeppesen, Inc. SiriusXM® is a registered trademark of SiriusXM Satellite Radio, Inc. August 2011 190-01194-00 Rev. A Printed in the United States or Taiwan Warnings, Cautions & Notes WARNING: When installing the aeraTM 795/796, place the unit so it does not obstruct the field of view or interfere with operating controls. WARNING: The indicators represented on the Panel are based on GPS-derived data and may differ from the instruments in the aircraft. WARNING: Navigation and terrain separation must NOT be predicated upon the use of the terrain function. The aera 795/796 Terrain Proximity feature is NOT intended to be used as a primary reference for terrain avoidance and does not relieve the pilot from the responsibility of being aware of surroundings during flight. The Terrain Proximity feature is only to be used as an aid for terrain avoidance and is not certified for use in applications requiring a certified terrain awareness system. Terrain data is obtained from third party sources.

Garmin is not able to independently verify the accuracy of the terrain data. WARNING: The displayed minimum safe altitudes (MSAs) are only advisory in nature and should not be relied upon as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate minimum clearance altitudes. WARNING: The altitude calculated by aera 795/796 GPS receivers is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters. Always use pressure altitude displayed by the aircraft altimeter when determining or selecting aircraft altitude. WARNING: Do not use outdated database information. Databases used in the aera 795/796 system must be updated regularly in order to ensure that the information remains current. Pilots using any outdated database do so entirely at their own risk. WARNING: SiriusXM Weather should not be used for hazardous weather penetration. Weather information is approved only for weather avoidance, not penetration.

WARNING: NEXRAD weather data is to be used for long-range planning purposes only. Due to inherent delays in data transmission and the relative age of the data, NEXRAD weather data should not be used for short-range weather avoidance. Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Warnings, Cautions & Notes WARNING: The illustrations in this guide are only examples. Never use the aera 795/796 to attempt to penetrate a thunderstorm.

Both the FAA Advisory Circular, Subject: Thunderstorms, and the Aeronautical Information Manual (AIM) recommend avoiding "by at least 20 miles any thunderstorm identified as severe or giving an intense radar echo." WARNING: To reduce the risk of unsafe operation, carefully review and understand all aspects of the aera 795/796 Pilot's Guide documentation and the Pilot's Operating Handbook of the aircraft. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the aera 795/796 to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety purposes, always resolve any discrepancies before continuing navigation.

WARNING: The Garmin aera 795/796 has a very high degree of functional integrity. However, the pilot must recognize that providing monitoring and/or self-test capability for all conceivable system failures is not practical. Although unlikely, it may be possible for erroneous operation to occur without a fault indication shown by the aera 795/796. It is thus the responsibility of the pilot to detect such an occurrence by means of cross-checking with all redundant or correlated information available in the cockpit. WARNING: For safety reasons, aera 795/796 operational procedures must be learned on the ground.

WARNING: The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment. Portions of the Garmin aera 795/796 utilize GPS as a precision electronic NAVigation AID (NAVAID). Therefore, as with all NAVAIDs, information presented by the aera 795/796 can be misused or misinterpreted and, therefore, become unsafe. WARNING: The data contained in the terrain and obstacle databases comes from government agencies.

Garmin accurately processes and cross-validates the data, but cannot guarantee the accuracy and completeness of the data. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide Warnings, Cautions & Notes WARNING: Do not use basemap (land and water data) information for primary navigation. Basemap data is intended only to supplement other approved navigation data sources and should be considered as an aid to enhance situational awareness. BATTERY WARNINGS: If these guidelines are not followed, the internal lithium-ion battery may experience a shortened life span or may present a risk of damage to the GPS device, fire, chemical burn, electrolyte leak, and/or injury. · Do not leave the device exposed to a heat source or in a high temperature location. To prevent damage, remove the device from the aircraft or store it out of direct sunlight. · Do not puncture or incinerate the device or battery. · When storing the device for an extended time, store within the following temperature range: from 32° to 77°F (from 0° to 25°C) · Do not operate the device outside of the following temperature range: from -4° to 131°F (from -20° to 55°C). · Contact your local waste disposal department to dispose of the device/battery in accordance with applicable local laws and regulations.



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Additional User-Replaceable Battery Warnings: · Do not use a sharp object to remove the battery. · Keep the battery away from children. · Do not disassemble, puncture, or damage the battery. · Only replace the battery with the correct replacement battery. Using another battery presents a risk of fire or explosion.

To purchase a replacement battery, see your Garmin dealer or the Garmin Web site. CAUTION: Avoid using any chemical or abrasive cleaners on the touchscreen and/or plastic casing. Clean the touchscreen with a soft, clean, lint-free cloth. Use water, isopropyl alcohol, or eyeglass cleaner, if needed.

CAUTION: The Garmin aera 795/796 does not contain any user-serviceable parts.

Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could void both the warranty and the pilot's authority to operate this device under FAA/FCC regulations. Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Warnings, Cautions & Notes NOTE: All visual depictions contained within this document, including screen images of the aera 795/796 panel and displays, are subject to change and may not reflect the most current aera 795/796 system and aviation databases. Depictions of equipment may differ slightly from the actual equipment. NOTE: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our web site at www.garmin.com/prop65.

NOTE: Interference from GPS repeaters operating inside nearby hangars can cause an intermittent loss of attitude and heading displays while the aircraft is on the ground. Moving the aircraft more than 100 yards away from the source of the interference should alleviate the condition. NOTE: Use of polarized eyewear may cause the flight displays to appear dim or blank. NOTE: Temporary Flight Restriction (TFR) data is provided by the FAA and may not be updated outside of normal business hours. Confirm data currency through alternate sources and contact your local FSS for interpretation of TFR data. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide Blank Page Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Table of Contents Section I

Overview ...

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.....

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..... 1.1.1 Unit Overview.....

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..... 1.1.2 Getting Started

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.....
2 Battery Installation

.....
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.....
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.....

. 2 Charging the Battery

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.... 3 Mounting the aera 795/796 in the Aircraft .

.....
.....

.....
.....

.....
.....

.....
.....

..... 4 Turning the Unit On/Off

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....

.....
.....
..... 5 GPS Receiver Status .
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 6 Display Orientation..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 8 I.

3 Operation

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....8 Basic Touchscreen Operation

.....
.....
.....

.....
.....
.....

.....
.....

.....
.....
.....

. 8 Dedicated Icons.....

.....
.....

.....
.....

.....
.....

.....
.....

..... 10 Page Buttons (Optional)

.....
.....

.....
.....

.....
.....

..... 10 Main Menu

.....
.....

.....
.....

.....
.....

.....
.....

..... 11 1.4 Menus and Data Entry ...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....15 Option Menus .

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 15 Data Entry.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 15 1.5 Using Map Displays ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
18 Map Range

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

18 Map Panning

.....

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.. 20 Map Overlays ...

.....

.....

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.....
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.....
.....

. 50 Textual Weather Information.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 52 Accessing Additional information

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.... 54 2.6 Direct-to Navigation

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

63 Section 3 Flight Planning.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 65 3.1 Introduction ..

.....
.....
.....
.....

.....
.....
.....
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.....
.....
.....
.....

.....
.....
.....
.....

..65 Data Fields ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 66 3.2 Flight Plan Creation .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....67 Adding Waypoints to an Existing Flight Plan.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 69 3.3 Flight Plan Storage ..

.....
.....
.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

70 3.4 Flight Plan Activation

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....70 3.

5 Flight Plan Editing.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....71 Editing Speed and Fuel Flow.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 71 Copying Flight Plans.....

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

. 72 Deleting Flight Plans

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 72 Inverting a Flight Plan ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

. 73 Importing/Exporting Flight Plans

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

74 3.6 Approaches

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.74 Selecting an Approach

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *75 Activating Vectors-to-Final*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... *77 4.1 SiriusXM® Weather (aera 796)*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *79 Activating Services*

.....
.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 79 SiriusXM Satellite Weather Products .

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 80 Using SiriusXM Satellite Weather Products..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 92 4.2 Terrain

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

.....

.....

..95 Terrain Information.....

.....

.....

.....

.....

.....
.....
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.....

.....
.....
.....
.....

.....
.....
. 96 Obstacle Information
.....

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
..... 96 Terrain and Obstacle Color Code...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
..... 97 Terrain Views...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
.... 98 Section 4 Hazard Avoidance

.....
.....

.....
.....
.....
.....
.....

..... 79 ii Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Table of Contents Terrain Alerts & Setup ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 99 4.3 Traffic Information Service (TIS)

.....
.....
.....

.....
.....
.....

.....101 TIS Symbology ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 101 TIS Alerts

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....
.....
.....
.....

... 102 Traffic Ground Track

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 103 Displaying Traffic Data ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

103 Section 5 Additional Features

.....
.....
.....

.....
.....
.....
.....

..... 105 5.1 3D Vision ..

.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.....
.....
.....

106 3D Vision Operation

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

107 5.2 Airport Directory Data...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.109 5.3 ChartView ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....111 Aircraft Symbol...

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....
.....
.....
.....
.....

112 Chart Range.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 113 Jeppesen Database-published NOTAMS ...

.....
.....
.....
.....
.....
.....
.....
.....

... 113 5.4 FliteCharts.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

...114 Aircraft Symbol.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... *116 FliteChart Range ...*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. *116 FliteCharts Cycle Number and Expiration Date ...*

.....
.....
.....
.....

.....
.....
.....
.....

... *117 5.5 VFR/IFR Chart Viewing*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

....*117 5.6 SafeTaxi.....*

.....
.....
.....
.....

.....
.....

.....
.....

.....
.....
.....

.....
.....

...118 SafeTaxi Cycle Number and Revision .

.....
.....
.....

.....
.....
.....

119 5.7 SiriusXM® Radio (aera 796)

.....
.....

.....
.....
.....

.....
.....
.....

...119 Activating SiriusXM Satellite Radio Services

.....
.....
.....

.....
.....
.....

... 120 Using SiriusXM Radio ..

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 121 5.8 Electronic Checklists ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

126 Appendix A: Messages, Alerts & Data Field Options

.....
.....
.....

.....
.....

..127 Miscellaneous Message Advisories..

.....

.....
.....
.....
.....

.....
.....
.....
.....

. 127 Airspace Messages

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 129 Data Field & Numeric Data Options ..

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
129 Aural Alerts

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 131 Appendix B: Abnormal Operation..

.....
.....
.....
.....

.....
.....
.....
.....

.....133 Loss of GPS Position

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 133 Hazard Display with Loss of GPS Position

.....
.....
.....

.....
.....
.....

..... 133 Appendix C: SD Cards and Databases

.....
.....

.....

.....

.....

.....

.....

.....

.....

.134 SD Card Use...

.....

.....

.....

.....

.....

.....

.....

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.....

.....

.....

.....

... 134 Databases ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 135 Appendix D: Installation and Interfacing ..

.....

.....

.....

.....

.....

.....

.....

.....

...139 Mounting the aera 795/796 in the Aircraft ..

.....

.....

.....

.....

.....

.....
.....
.....
.....

139 Connecting to a Computer

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 143 Section 6 Appendices

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 127 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide iii Table of Contents Connecting to a Garmin VHF Comm Radio ...

.....
.....
.....
.....

.....
.....
.....

..... 144 Connecting the GXM 40 Antenna (aera 796) .

.....
.....
.....

.....
.....
.....

.....
.....

.. 146 Connecting to a GTX 330 Mode S Transponder ...

.....
.....
.....

.....
.....
.....
.....
.....

.....
.. 147 Interfacing

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

. 147 Using an external GPS Antenna (Optional)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

... 149 Appendix E: Battery and Care Information

.....
.....
.....
.....
.....
.....
.....
.....

.....151 Battery Information

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

. 151 Changing the Cigarette Lighter Adapter Fuse

.....
.....
.....
.....

.....
.....
.....
..... 151 *Cleaning the Casing* .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
..... 152 *Cleaning the Touchscreen* .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....
..... 152 *Protecting the Unit*

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 152 *Appendix F: General TIS Information* ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
153 TIS vs. TAS/TCAS.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.. 153 TIS Limitations ...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 153 Appendix G: Utilities

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
....157 Document Viewer .

.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....

... 157 Scratch Pad

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 157 Flight Log.....

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 158 Track Log

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 160 Heading Line

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 163 E6B Calculator .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 164 Aircraft Profile

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 166 Weight & Balance

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....

.... 168 Proximity Waypoints

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.... 170 Appendix H: Display Symbols .

.....
.....
.....
.....
.....
.....
.....
.....

...173 VFR Symbols ..

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 173 IFR Symbols .

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....
.....
.....
.....
.....

..... 174 Airspace Symbols

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 176 Appendix I: Map Datum and Location Formats.....

.....
.....
.....
.....

.....
.....
.....

.179 Map Datums

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 179 Location Formats...

.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.....
.....
.....

..... 179 Appendix J: Glossary...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.181 Appendix K: License Agreement and Warranty

.....
.....
.....
.....
.....

.....

..187 Contact Garmin...

.....
.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 187 Software License Agreement

.....
.....
.....

.....
.....
.....

.....
.....

.....

..... 187 Limited Warranty ...

.....
.....
.....

.....

.....
.....
.....

.....

.....
.....
.....

.....

.....
.....

..... 187 AOPA Airport Directory Notice ...

.....
.....
.....
.....

.....

.....
.....
.....

.....

.....
.....

..... 188 SiriusXM Satellite Radio Service Agreement ...

.....
.....
.....
.....

.....

.....
.....
.....

..... 188 Weather Data Warranty ..

.....
.....
.....

.....

.....
.....
.....

.....

.....
.....
.....

.....

.....
.....

... 189 FCC Compliance..

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2 GETTING STARTED BATTERY INSTALLATION NOTE: Refer to Appendix E for additional battery information. CAUTION: Always keep the battery installed when the unit is on. WARNING: The product contains a lithium-ion battery. To prevent damage, remove the unit from the aircraft or store it out of direct sunlight.

Appendices Additional Features Installing the battery: 1) Locate the lithium-ion battery that came in the product box. 2) Locate the metal contacts on the end of the lithium-ion battery. 3) Insert the battery so that the metal contacts on the battery line-up with the metal contacts inside the battery compartment. 4) Insert the battery into the battery compartment, and push until it clicks into place. 2 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Index Overview Power Button Overview GPS Navigation SD Card Slot Battery Release: Push to remove the battery Flight Planning Battery Contacts Hazard Avoidance Additional Features Appendices Unit Overview (Back - Battery Out) CHARGING THE BATTERY NOTE: While in Charge Mode the unit draws a current from the aircraft. To avoid discharging the aircraft's battery, disconnect the external power cable from the unit when not in use for several days. Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 3 Overview Charge the aera 795/796 for at least 4 hours before using on battery power. Charge the battery by connecting the aviation power cable or the AC adapter.

Plug the unit into a 12-Volt or 24-Volt connector to charge. The unit can be used while it is charging. Charge the unit within the following temperature range: 32° to 104°F (0° to 40°C). GPS Navigation Overview Flight Planning Charging the unit's battery using the aircraft's power outlet: 1) Mount the aera 795/796 in the aircraft and connect the power cable to the aircraft power outlet (cigarette lighter receptacle). 2) Route the power cable so that it does not interfere with aircraft operation. The unit begins charging as soon as external power is applied. USING CHARGE MODE Applying external power to the aera 795/796 automatically turns on the unit for full operation. If the battery is present and needs to be charged, the external power source charges the battery while the unit is in use. If you do not want to use the unit, but you would like to charge the battery, you can put the unit into Charge Mode. Connect the unit to an external power supply.

Press and hold the POWER Button. Instead of completely turning off, the unit now goes into Charge Mode. The unit will run cooler and may allow more current to be available while in Charge Mode, when XM is unplugged, the backlight is turned down, etc. Additional Features Index Appendices Hazard Avoidance MOUNTING THE aera 795/796 IN THE AIRCRAFT Refer to Appendix D 'Installation & Interfacing' for information on mounting the aera 795/796 in the aircraft. 4 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev.

A Overview TURNING THE UNIT ON/OFF Press and hold the POWER Button to turn the unit on or off. The first time the unit is turned on, the receiver must collect satellite data and establish its present location. To ensure proper initialization, the aera 795/796 is shipped from the factory in AutoLocate mode, which allows the receiver to "find itself" anywhere in the world. During initialization, current database information is displayed. Database information includes valid operating dates, cycle number, and database type.

When this information has been reviewed for currency (to ensure that no databases have expired), the pilot is prompted to continue. Touching the Press To Accept Button acknowledges this information, and the Main Menu is displayed. Overview GPS Navigation Flight Planning Hazard Avoidance Additional Features Appendices aera 795 Database Initialization aera 796 Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 5 Overview Overview GPS Navigation Flight Planning Hazard Avoidance GPS RECEIVER STATUS The receiver status displays one of the following conditions: AutoLocate--Receiver is looking for any satellite whose almanac has been collected, which can take up to 5 minutes -Searching the Sky--Receiver is looking for satellites -Acquiring Satellites--Receiver is looking for and collecting data from satellites visible at its last known or initialized location, but has not acquired a fix -2D GPS Location--At least three satellites have been acquired and a twodimensional location fix has been calculated. "2D Differential" appears when you are receiving DGPS corrections in 2D mode -3D GPS Location--At least four satellites have been acquired and a threedimensional fix has been calculated. "3D Differential" appears when you are receiving DGPS corrections in 3D mode -Lost Satellite Reception--the receiver is no longer tracking enough satellites for a 2D or 3D fix PRN Number Constellation Diagram 45° Above Horizon Horizon Additional Features Appendices Signal Strength Bar PRN Number Location (Lat/Long) Index GPS Status 6 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview Viewing the GPS status: Overview From the Main Menu, touch Tools > GPS Status. ACQUIRING SATELLITES The bars located at the top of the screen indicate the GPS signal strength. When the receiver is in the process of acquiring enough satellite signals for navigation, the receiver uses satellite orbital data (collected continuously from the satellites) and last known position to determine the satellites that should be in view. 'Acquiring Satellites' is indicated as the solution until a sufficient number of satellites have been acquired for computing a solution.

When the receiver is in the process of acquiring a 3D differential GPS solution, '3D GPS Location' is indicated as the solution until the 3D differential fix has finished acquisition. GPS Navigation Flight Planning SATELLITE INFORMATION Satellites currently in view are shown at their respective positions on a satellite constellation diagram. The outer circle of the constellation diagram represents the horizon, the inner circle represents 45° above the horizon, and the center point shows the position directly overhead. Each satellite is represented by a square containing the Pseudo-Random Noise (PRN) number (i.e., satellite identification number). GPS Status can be helpful in troubleshooting weak (or missing) signal levels due to poor satellite coverage or installation problems.

As the GPS receiver locks onto satellites, a signal strength bar is displayed for each satellite in view, with the appropriate satellite PRN number (01-32 or 33-64 for WAAS) below each bar. The progress of satellite acquisition is shown in three stages, as indicated by signal bar appearance: - No bar--Receiver is looking for the indicated satellite - Gray bar--Receiver has collected the necessary data and the satellite signal can be used Hazard Avoidance Additional Features Appendices Index - Green bar--Satellite is being used for the GPS solution 190-01194-00 Rev.



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A Garmin aera 795/796 Pilot's Guide 7 Overview Overview DISPLAY ORIENTATION The aera 795/796 can be viewed in either Portrait or Landscape Mode.

Changing the display orientation: 1) From the Main Menu, touch Tools > Setup > Display Or: Press the Power Button once quickly. 2) Touch the 'Display Orientation' datafield to select Portrait or Landscape. GPS Navigation Flight Planning 1.3 OPERATION BASIC TOUCHSCREEN OPERATION Touch the desired selection. The icon, view, menu option, datafield, etc. will momentarily turn blue when selected.

Appendices Additional Features Hazard Avoidance Basic Touchscreen Operation Index 8 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview SCROLLING AND PANNING Scrolling and panning on the touchscreen: Drag up or down to scroll menus, documents, etc. Or: Drag in any direction to pan maps or charts. Overview GPS Navigation Flight Planning Hazard Avoidance Scrolling Panning ZOOMING Zooming in and out on the touchscreen map displays: Pinch fingers together (zoom out), or pull fingers apart (zoom in). Additional Features Appendices Index Zoom Out 190-01194-00 Rev.

A Zoom In Garmin aera 795/796 Pilot's Guide 9 Overview Overview GPS Navigation DEDICATED ICONS Located on the bezel (below the touchscreen) are four dedicated touch icons. Touch or touch and hold the following icons to perform the associated function: Flight Planning Back Main Menu (Shortcut) Menu Direct-to NRST Dedicated Icons Hazard Avoidance Returns to previous screen. Cancels the map pointer. Touch and hold to display the Main Menu. Displays the context sensitive option menu. Displays the Direct-to function. Displays the Nearest Icons. Touch and hold to quickly access the nearest airports. PAGE BUTTONS (OPTIONAL) NOTE: The aera 795/796 Optional Page Buttons are User Configurable. Additional Features Appendices Six different configurable Page Buttons are located above the Dedicated Icons.

The Page Buttons default to (Map, WPT Info, Weather (aera 796), Terrain, 3D Vision, and Charts). Page Buttons Configuring the Page Buttons: 1) Main Menu, touch Tools > Setup > Display > Choose Buttons 2) From the available Page Buttons at the top half of the screen, touch the new Page Button that will replace one of the current Page Buttons. 3) From the current Page Buttons along the bottom of the screen, touch the 10 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Index Overview Page Button that will be replaced by the new page button. The current Page Button is now replaced by the new Page Button. 4) Touch Save. Overview MAIN MENU Touch and hold the icon at any time to display the Main Menu. GPS Navigation MAIN MENU ICONS Touch the following icons to display the associated function: Map Terrain 3D Vision WPT Info FPL List Active FPL Numbers Doc Viewer Charts Weather SiriusXM Tools Displays the Map View. Displays the Terrain View. Displays 3D Vision.

Displays the Waypoint Information. Displays the Flight Plan List. Displays the Active Flight Plan. Displays flight data. Displays the document viewer. Displays the VFR or IFR charts. Displays second-level Weather Icons (aera 796). Displays SiriusXM Radio (aera 796). Displays second-level Tools Icons. Flight Planning Hazard Avoidance Additional Features Appendices NEAREST ICONS Touch the Airport icon at any time to access the second-level Nearest icons.

Index Touch the following icons to display the associated function: Displays nearest airports. Airport WX Displays nearest airport weather. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 11 Overview VOR Overview Displays nearest VORs. Displays nearest NDBs. Displays nearest Visual Reporting Point (VRP) (Atlantic). Displays nearest user waypoints. Displays nearest cities. Displays nearest ARTCCs (Air Route Traffic Control Centers). Displays nearest Flight Service Stations (FSS).

Displays nearest airspace. NDB VRP Intersection Displays nearest intersections. User WPT City ARTCC FSS Airspace Flight Planning GPS Navigation WEATHER ICONS (aera 796) From the Main Menu, touch the Weather icon to access the second-level Weather Icons. Touch the following second-level Icons to display the weather product: NEXRAD Displays NEXRAD (NEXt-generation RADar). Satellite Echo Tops Winds Lightning METAR AIRMET SIGMET Displays Satellite Mosaic cloud cover. Displays Echo Tops. Displays Winds Aloft. Displays Lightning. Displays METARs. Displays AIRMETS. Displays SIGMETs. Additional Features Hazard Avoidance Index Appendices Storm Cells Displays Storm Cells. 12 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview TFR PIREP Freeze Lvl Turb Fcst Icing Fcst WX Frst Pressure Sea Temp Displays TFRs (Temporary Flight Restrictions). Overview Displays PIREPs.

Displays Freezing Levels. Displays the Turbulence Forecast. Displays the Icing Forecast. Displays Forecast Information (current, 12hr, 24hr, 36hr, & 48hr). Displays Surface Pressure.

Displays Water Temperature. GPS Navigation Flight Planning TOOLS From the Main Menu, touch the Tools Icon to access the second-level Tools icons. Touch the following second-level icons to display the associated function: Setup Displays third-level Setup Icons. User WPT Flight Log Track Log VNAV Profile E6B Calc Weight/Bal Database Position Displays User Waypoints and Proximity Waypoints. Displays Flight Logs. Displays Track Logs. Displays Vertical Navigation. Displays Aircraft Profiles. Displays the E6B Calculator. Displays the Weight & Balance.

Displays database and software version information. Displays the aircraft's Present Position. Hazard Avoidance Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 13 Overview Checklists Overview Displays the checklists if available. Displays the scratchpad. Displays GPS status information. Scratchpad GPS Status GPS Navigation Setup IconS From the Main Menu, touch the Tools > Setup to access the third-level Setup Icons. Touch the following third-level icons to perform the associated function: Display Displays backlight intensity/timeout and color mode settings.

Sound Units Date/Time Map Position Interface Alarms SUA Alarms Power Keyboard Displays sound settings. Displays unit settings.

Displays date & time settings. Displays Navigation Map settings. Displays position settings. Displays interface settings. Displays alarm settings.

Displays Special Use Airspace alarm settings. Displays Power Loss Warning settings. Displays keyboard layout settings. Index Appendices Additional Features Hazard Avoidance Flight Planning 14 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview I.

4 MENUS AND DATA ENTRY OPTION MENUS The aera 795/796 has a dedicated menu options available. Navigating the option menu: Overview GPS Navigation Icon that displays a context-sensitive list of Touch the Icon Touch the desired menu option.



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Flight Planning Hazard Avoidance DATA ENTRY DATA ENTRY ICONS The following icons are displayed on the data entry screen. OK Exits the keypad function and accepts the changes. BKSP Erases the current data. Numeric/ Displays the numeric, alpha, or symbol keypad. Alpha/Symbol Cancel Cancels a value that has been edited. Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 15 Overview Entering alphanumeric data: Overview When alphanumeric data can be entered, a keypad will appear after touching the desired datafield. Touch the keypad to enter the desired data.

Touch OK. Flight Planning GPS Navigation Index Appendices Additional Features Hazard Avoidance 16 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview Entering predetermined data options: Overview Touch the Data Option Button to display a vertical list of data options (if applicable), or to toggle two data options (i.e., On/Off). Or: Touch the buttons to cycle through a horizontal list (if more than two data options are available). GPS Navigation If using the vertical list, touch the desired data option from the list. Flight Planning Hazard Avoidance Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 17 Overview Overview 1.5 USING MAP DISPLAYS NOTE: Refer to the GPS Navigation section for more information on Map Display Setup.

GPS Navigation Flight Planning Hazard Avoidance Additional Features Map displays are used extensively in the aera 795/796 to provide situational awareness in flight. Most aera 795/796 maps can display the following information: -Airports, NAVAIDs, airspaces, airways, land data (highways, cities, lakes, rivers, borders, etc.) with names -Map Pointer information (distance and bearing to pointer, location of pointer, name, and other pertinent information) -Maprange -Aircrafticon (representing present position) -Flightplanlegs -Userwaypoints -Trackvector -Topographydata MAP RANGE There are 23 different map ranges available, from 200 feet to 800 nm. The current map range is indicated in the lower right. The scale bar represents the map scale.

Changing the map range: Appendices Use the (out) or (decreasing). (in) icons to zoom 'out' (increasing), or zoom 'in' Zoom Out Zoom In Index Or: 18 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview Pinch fingers together (zoom out), or pull fingers apart (zoom in). Overview GPS Navigation Flight Planning Zoom Out Zoom In Hazard Avoidance OVERZOOM When the selected range exceeds the resolution of the map data, 'overzoom' appears below the map range scale. Scale Bar Representing a Map Scale of 3 nm Per Scale Width.

Map Range/Overzoom Additional Features AUTO ZOOM Auto Zoom allows the aera 795/796 to change the map display range to the smallest range clearly showing the active waypoint. Auto Zoom can be overridden by adjusting the range and remains that way until the active waypoint changes, a terrain or traffic alert occurs, or the aircraft takes off. Enabling/disabling auto zoom: 1) From the Main Menu, touch Map > Menu > Set Up Map. 2) Touch the buttons to select the 'General' Category. 3) Touch the 'On/Off' Data Option Button for 'Autozoom'. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide Appendices Index 19 Overview Overview GPS Navigation Flight Planning Hazard Avoidance Additional Features MAP PANNING Map panning allows the pilot to:

-Viewpartsofthemapoutsidethedisplayedrangewithoutadjustingthemap range -Highlightandselectlocationsonthemap -Reviewinformationforaselectedairport,NAVAIDoruserwaypoint -Designatelocationsforuseinflightplanning -Viewairspaceandairwayinformation When the panning function is selected by touching anywhere on the Map, the Map Pointer is displayed. An Information Window also appears at the bottom of the map display showing the the bearing, distance and time to the pointer from the aircraft's present position, the elevation of the land at the position of the pointer, or the object's (airports, obstacles, etc) elevation, if known. When the Map Pointer is over a map feature, the map feature is highlighted, an information box appears on the map, and the highlighted map feature is displayed on the Map Feature Button (even if the name was not originally displayed on the map).

Touching the Map Feature Button displays additional information for the highlighted map feature.

If multiple features are present at the Map Pointer position, green arrows will appear on the Map Feature Button. Touching the will cycle through the list of map features present at that position. Information Box Appendices 20 Bearing to the Pointer from the IndicatElevation at Green ArrowFeatures Lat/Lon at the Aircraft's Map Pointer Location the Pointer ing Multiple at the Present Feature are Present Location Map Pointer Location Position Button Distance to the Pointer Time En Route to the from the Aircraft's Present Pointer from the Aircraft's Position Present Position Map Panning (Navigation Map) Garmin aera 795/796 Pilot's Guide Index 190-01194-00 Rev. A Overview Activating the map pointer: While viewing a Map Display, touch anywhere on the map to activate the map pointer. Touch the icon to cancel the map pointer. Panning the map: While viewing a Map Display, touch anywhere on the map and drag. Reviewing information for a map feature: Overview GPS Navigation While viewing a Map Display, touch anywhere on the map to activate the map pointer.

When the Map Pointer is over a map feature, the map feature is highlighted, an information box appears on the map, and the highlighted map feature is displayed on the Map Feature Button (the button located between the buttons). If multiple features are present at the Map Pointer position, green arrows will appear on the Map Feature Button. If necessary, touch the buttons to cycle through the list of map features present at that position.

Touching the buttons changes the highlight and description. Touch the Map Feature Button to review information for the Map Feature. If desired touch the Direct-to Icon to navigate to the map feature. Flight Planning Hazard Avoidance Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 21 Overview Overview MAP OVERLAYS The Weather, Topography, and Terrain map overlays can be displayed or removed. Flight Planning GPS Navigation Hazard Avoidance Displaying/removing map overlays: 1) From the Main Menu, touch Map > Menu > Show/Hide. 2) Touch the 'Show/Hide' Data Option Button for the desired overlay. Additional Features MAP SYMBOLS Refer to Appendix H for a list of map symbols.



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DECLUTTER The map can be adjusted to declutter (remove unwanted items, such as highways) the map. Adjusting the declutter level of the navigation map:
 1) From the Main Menu, touch Map > Menu > Declutter.

2) Touch the desired level (none, -1, -2, -3) at the bottom of the screen. The currently selected level is highlighted blue. 3) Appendices Index Touch the icon to remove the detail options. 22 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview **MAP DETAIL** The map detail can also be adjusted. Map detail changes the amount of detail with respect to the zoom scale. Adjusting the map detail: 1) From the Main Menu, touch Map > Menu > Set Up Map. 2) Touch the buttons to select the 'General' Category. 3) Touch Detail Level Data Option Button, and touch the desired option from the list (Least, Less, Normal, More, or Most). Overview GPS Navigation 1.

6 **SYSTEM SETTINGS** The third-level Setup Icons allow management of the following system parameters: ·Display ·Sound ·Units ·Date&Time ·Map ·Position ·Interface ·Alarms ·SUAAlarms ·Power ·Keyboard Flight Planning Hazard Avoidance Additional Features Appendices Index Restoring system setting defaults: 1) From the Main Menu, touch Tools > Setup. 2) Touch the desired Setup Icon (Display, Sound, Units, Date & Time, Map, Position, Interface, Alarms, SUA Alarms, Power, or Keyboard). 3) Touch Menu > Restore Default. Or: From the Main Menu, touch Tools > Setup > Menu > Restore All Settings. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 23 Overview Overview **DISPLAY NOTE:** Display Setup can also be accessed through the 'Quick Settings' by pressing the POWER Button once quickly. **GPS Navigation DISPLAY ORIENTATION** The aera 795/796 can be viewed in either Portrait or Landscape Mode. Changing the display orientation: 1) From the Main Menu, touch Tools > Setup > Display Or: Press the Power Button once quickly. 2) Touch the 'Display Orientation' datafield to select Portrait or Landscape. **Flight Planning PAGE BUTTONS** Hazard Avoidance Additional Features **Configuring the Page Buttons:** 1) Main Menu, touch Tools > Setup > Display > Choose Buttons 2) Touch one of the available Page Buttons at the top half of the screen to replace one of the current Page Buttons.

3) Touch one of the current Page Buttons along the bottom of the screen to replace it with the new Page Button. 4) Touch Save. **Displaying/removing the Page Buttons:** 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Show/Hide' Data Option Button for the 'Page Buttons' Appendices **BACKLIGHT INTENSITY** Adjusting backlight intensity: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the buttons to adjust the backlight intensity.

Index 24 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A Overview Or: Overview Press the POWER Button and enter the desired backlight intensity. **BACKLIGHT TIMEOUT** After a specified period of inactivity the backlight will turn off to save battery power. Adjusting backlight timeout: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Backlight Timeout' Data Option Button, and touch the desired option from the list (Stays On, 15 Seconds, 30 Seconds, 1 Minute, or 2 Minutes).

GPS Navigation Flight Planning ZOOM BUTTONS Displaying/removing the Zoom Buttons: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Show/Hide' Data Option Button for the 'Zoom Buttons'. **Hazard Avoidance COLOR MODE** Adjusting the color mode: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Color Mode' Data Option Button, and touch the desired option from the list (Auto, Day, or Night). **Additional Features SCREENSHOT** Enable/disable screenshots: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Screenshot' 'On/Off' Data Option Button. 3) If enabling screenshots, touch 'OK'. A camera button appears at the top of the screen. Touch the camera button to save a screenshot to the screenshot folder on the 'Garmin' drive. Appendices Index 190-01194-00 Rev.

A Garmin aera 795/796 Pilot's Guide 25 Overview Overview **AIRCRAFT POSITION ON MAP/CHARTS** Displaying/removing the aircraft position on maps/charts: 1) From the Main Menu, touch Tools > Setup > Display. 2) Touch the 'Aircraft Position' 'Show/Hide' Data Option Button. **GPS Navigation SOUND NOTE:** Sound Settings can also be accessed through the 'Quick Settings' by pressing the POWER Button once quickly. Sound is broken down into Master', Alerts', and 'Media'. 'Master' controls ALL sound. 'Alerts' and 'Media' are a percentage of the 'Master' sound. 'Alerts' refers to navigation phrases (e.g. "Pull Up"), and 'Media' refers to the XM radio volume. The Terrain Audio and Key Tones can also be toggled On/Off.

Adjusting the sound: 1) From the Main Menu, touch Tools > Setup > Sound. 2) Or: 1) 2) Press the POWER Button to quickly access the Master volume/mute. Touch Menu > Sound Setup to access ALL volume settings. Touch the buttons to adjust the sound. **Additional Features Hazard Avoidance Flight Planning Appendices** Enabling/disabling Terrain Audio, TIS Audio, and/or Key Tones: 1) From the Main Menu, touch Tools > Setup > Sound.

2) Touch the 'On/Off' Data Option Button to toggle Terrain Audio, TIS Audio, or Key Tones on/off. **Muting the sound:** 1) From the Main Menu, touch Tools > Setup > Sound. 2) Touch the Icon to mute the Master, Alerts, or Media audio. A blue 'X' will appear over the icon. Index 26 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev.

A Overview **ADDITIONAL SETTINGS** Changing settings (Units, Date & Time, Position, Interface, Alarms, SUA Alarms, Power, and Keyboard): 1) From the Main Menu, touch Tools > Setup. 2) Touch the desired Settings Icon (Units, Time, Position, Interface, Alarms, SUA Alarms, Power, or Keyboard). 3) Touch the desired setting to change. If only two options are available, touching the field will toggle the two settings. If more than two options are available, a vertical list is displayed with a blue outline around the current setting. Touch the '+' or '-' buttons to increase/decrease the numerical values (if necessary). 4) Touch and hold to return to the Main Menu. Overview GPS Navigation Flight Planning Icon Display Sound Available Settings Backlight Intensity, Backlight Timeout, Color Mode, Screenshot Master (0-10), Alerts (0-10), Media (0-10), Key Tone, Terrain Audio, TIS Audio Units Distance, Speed, Direction Display, Temperature, Altitude, Vertical Speed, Pressure, Fluid Volume Date/Time Time Format, Auto UTC Offset Position Location Format, Map Datum, Heading, Magnetic Variation Interface Serial Data Format Alarms Arrival, Next WPT, Proximity, Fuel Tank Reminder SUA Alarms Class B/TMA, Class C/TCA, Class D, Restricted, MOA, Other/ADIZ, Parachute Area Power Power Loss Warning Keyboard Layout Hazard Avoidance Additional Features Appendices Index 190-01194-00 Rev.



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A Garmin aera 795/796 Pilot's Guide 27 Overview Overview GPS Navigation 1.7 NEAREST AIRPORT CRITERIA SETTINGS The Nearest Airports function allows the pilot to filter out airports that do not meet a defined criteria.

Specific surface types and runway lengths can be defined, as well as the option to include private airports and/or heliports. Runway Surface--allows you to set criteria for the type of surface on the runway: ·Hard Only--shows only runways with a concrete, asphalt, or similar sealed surface. ·Hard or Soft--shows all runways except water landing facilities. ·Water Only--shows only water landing facilities. ·Any--shows any runway, regardless of surface type, including water landing Flight Planning facilities. Minimum Runway Length--allows the pilot to enter a specific length for the shortest runway allowed. Entering airport criteria: 1) Touch NRST > Airport > Menu > Set Airport Criteria. 2) Touch the desired setting to change ('Runway Surface', 'Include Private Apts', 'Include Heliports') or touch the '+' or '-' buttons to increase/decrease the Minimum Runway Length. Restoring airport criteria defaults: Touch NRST > Airport > Menu > Restore Default. Additional Features Appendices Index Hazard Avoidance 1.

8 PRESENT POSITION POSITION The Present Position function displays latitude, longitude, GPS altitude, reference waypoint, type, distance, direction, and bearing. The reference waypoint is designed to display the current position in relation to a prominent landmark. The pilot can change the reference waypoint 'Nearest Type' using the 'Change Nearest Type' menu option. By default the Nearest Type is set to 'Automatic', which will display the nearest large airport, enroute VOR, or city (in that order). 28 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev.

A Overview Changing the Nearest Type: 1) From the Main Menu, touch Tools > Position > Menu > Change Nearest Type. 2) Touch the desired nearest type ('Automatic', 'Airport', 'VOR', 'NDB', 'Intersection', 'City', or 'Waypoint'). Viewing the present position: From the Main Menu, touch Tools > Position.

Overview GPS Navigation NEW LOCATION The 'New Location' menu option is used when the GPS Receiver is having trouble finding the satellites it expects to be there. If 'Automatic' is selected, the GPS will attempt to figure out the new location.

Changing the New Location setting to automatic: 1) From the Main Menu, touch Tools > Position > Menu > New Location. 2) Touch 'Automatic'. The GPS will attempt to figure out the new location. Entering a new location: 1) From the Main Menu, touch Tools > Position > Menu > New Location. 2) Touch 'Use Map' or 'Use Identifier'. 3) After selecting your approximate position using the map pointer or entering an identifier, touch OK. 4) The GPS Receiver will begin a new search based on the location entered. Flight Planning Hazard Avoidance Additional Features SIMULATOR MODE Simulator Mode is helpful for practicing with the unit indoors or when satellite or XM signals are unavailable. All waypoints and routes created in Simulator Mode are retained in memory for future use. NOTE: Do not attempt to navigate using Simulator Mode.

When the unit is set to Simulator Mode, the GPS receiver is turned off. Any Satellite Signal Strength Bars shown are only simulations and do not represent the strength of actual satellite signals. 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide Appendices Index 29 Overview Starting/Stopping Simulator Mode: From the Main Menu, touch Tools > Position > Menu > Start/Stop Simulator. Adjusting the simulated altitude, track, speed, waypoint, & position: 1) From the Main Menu, touch Tools > Position > Menu > Start Simulator. 2) Touch Menu > Drive Simulator. 3) Enter the desired data by touching the fields or using the +/- buttons. Refer to Section 1.4 'Data Entry' for more information. Appendices Additional Features Hazard Avoidance Flight Planning GPS Navigation Overview Drive Simulator Index 30 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev.

A GPS Navigation SECTION 2 GPS NAVIGATION Overview 2.1 INTRODUCTION The Navigation Map displays aviation data (e.g., airports, VORs, airways, airspaces), geographic data (e.g., cities, lakes, highways, borders), and topographic data (map shading indicating elevation). The Navigation Map can be oriented three different ways: North Up (NORTH UP), Track Up (TRK UP) or Desired Track Up (DTK UP). An aircraft icon is placed on the Navigation Map at the location corresponding to the calculated present position. The aircraft position and the flight plan legs are accurately based on GPS calculations. The basemap upon which these are placed is from a source with less resolution, therefore the relative position of the aircraft to map features is not exact.

The leg of the active flight plan currently being flown is shown as a magenta line on the navigation map. The other legs are shown in white. GPS Navigation Flight Planning Hazard Avoidance Inactive Leg (White) Additional Features Active Leg (Magenta) Aircraft Icon Flight Plan Legs (Navigation Map) Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 31 GPS Navigation DATA FIELDS Overview GPS Navigation The data fields on the Navigation Map can be independently configured by the user. Data Fields Hazard Avoidance Flight Planning Additional Features Data Fields (Navigation Map) By default, the Data Fields are set to display Ground Speed (GS), Distance - Next (DIST NEXT), Vertical Speed Required (VSR), and Time En Route - Next (ETE NEXT). These four data fields can be changed to display any of the Data Field Options. Index Appendices 32 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation Changing the information shown in the data fields: From the Main Menu, touch the Map Icon. Touch the Menu Icon. Touch the 'Change Data Fields' menu option.

Touch the desired Data Field to change. A list of available Data Field Options is displayed. Touch the desired Data Field Option. Touch the OK Icon. Overview GPS Navigation Flight Planning Hazard Avoidance Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 33 GPS Navigation DATA FIELD OPTIONS Overview ·Accuracy ·Altitude ·Bearing(BRG) ·CourseToSteer(CTS) ·DesiredTrack(DTK) ·Distance(Destination)(DISTDEST) ·Distance(Next)(DISTNEXT) ·EnRouteSafeAltitude(ESA) ·FlightTimer(FLTTIMER) ·FuelTimer ·GlideRatio(G/R) ·GroundSpeed(GS) ·GroundTrack(TRK) ·MinimumSafeAltitude(MSA) ·NextWaypoint(NEXTWPT) ·Sunrise ·Sunset ·Time En Route (Destination) (ETE DEST) ·TimeEnRoute(Next)(ETENEXT) ·Time of Arrival (Destination) (ETA DEST) ·TimeofArrival(NEXT)(ETANEXT) ·TimetoVNAV(VNAVTIME) ·Time(Local) ·Time(UTC) ·VerticalSpeed(VS) ·VerticalSpeedRequired(VSR) ·Wx(Altimeter)(WXALTIM) ·Wx(DewPoint)(WXDEWP) ·Wx(Rel.



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Humidity)(WXHUMIDITY) ·Wx(Temperature)(WXTEMP) ·Wx(Wind)(WXWIND) Index Appendices Additional Features Hazard Avoidance Flight Planning GPS Navigation 34 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation NUMERIC FLIGHT DATA Overview The numeric flight data can be independently configured by the user. Accessing numeric flight data: From the Main Menu, touch Numbers. Changing numeric flight data fields: 1) From the Main Menu, touch Numbers.

2) Touch the desired data field to change. The available data fields are displayed. 3) 4) Touch the desired data field. Touch OK. GPS Navigation Flight Planning Restoring default numeric flight data: From the Main Menu, touch Numbers > Menu > Restore Default.

Hazard Avoidance Additional Features Numeric Flight Data Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 35 GPS Navigation COMPASS ARC Overview GPS Navigation A compass arc appears by default on the Navigation Map. The route line represents the course and the magenta bug indicator (similar to the bug indicator on the HSI) can be set to 'Bearing' (default), 'Course to Steer', a specific heading reference ('User Selected'), or

'Off'. NOTE: The Compass Arc is hidden while on the ground. Magenta Bug Indicator Flight Planning Hazard Avoidance Compass Arc Compass Arc (Navigation Map) Additional Features Displaying/Removing the Compass Arc from the Navigation Map: 1) From the Main Menu, touch Map > Menu > Set Up Map 2) Touch the buttons to select the 'General' Category (if necessary).

3) Touch the On/Off Button in the 'Compass Arc' datafield. Setting the Compass Arc Bug Indicator: 1) From the Main Menu, touch Map > Menu > Set Bug Indicator (only available when the compass arc is displayed). 2) Touch the desired menu option ('User Selected', 'Bearing', 'Course to Steer', or 'Off'). Index Appendices 36 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation 2.2 HSI/PANEL Overview GPS Navigation The HSI/Panel shows GPS-derived data in a graphical format. Keep in mind the differences between the GPS-derived panel and mechanical instruments, as mechanical panel instruments use sensors that provide information different from that derived using GPS. HSI Flight Planning Ground Speed Altitude Turn Rate Indicator

Hazard Avoidance HSI/Panel CDI Scale Vertical Speed The Panel shows a graphic Horizontal Situation Indicator (HSI) surrounded by additional indicators. The graphic HSI depicts the course to the destination or the next waypoint in a flight plan, current ground track, off course error, and a To/From indication. The rotating compass indicates your current ground track.

The course pointer and course deviation needle indicate the course and whether you are on the course. The Bug Indicator can be set to 'Bearing' (default), 'Course to Steer', a specific heading reference ('User Selected'), or 'Off'. Bearing is the compass direction from the present position to a destination waypoint.

Course to Steer is the recommended direction to steer in order to reduce cross-track error and return to the course line. Additional Features Appendices Index 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide 37 GPS Navigation The Course Deviation Indicator, or needle, indicates how far off course, left or right, based on its placement along the course deviation scale. The course deviation scale appears on the lower right corner of the HSI. There are four CDI Scale settings ('Automatic', '0.25 nm', '1.25 nm', and '5.00 nm'). Three factors are used to determine the distance from the center of the CDI to full left or right limits when the CDI Scale is set to 'Automatic': ·CDI scale = 1.25 - within 30 nm of any airport in the active route. ·CDI scale = 0.25 - on an approach leg or within 2 nm of the FAF or MAP.

·CDI scale = 5.0 - if the previous two conditions do not exist. Displaying/Removing the HSI/Panel: 1) From the Main Menu, touch Map > Menu > Show/Hide...

2) Touch the Show/Hide Button in the 'Panel' datafield. Changing the CDI scale: 1) With the Panel displayed, from the 'Home' Screen, touch Map > Menu > Set CDI Scale. 2) Touch the desired CDI Scale ('Automatic', '0.25 nm', '1.25 nm', or '5.00 nm'). Hazard Avoidance Additional Features Flight Planning GPS Navigation Overview SETTING THE BUG INDICATOR The Bug Indicator can be set from the Map option menu. Setting the Bug Indicator: 1) From the Main Menu, touch Map > Menu > Set Bug Indicator. 2) Touch the desired menu option ('User Selected', 'Bearing', 'Course to Steer', or 'Off'). Appendices Index MANUALLY SETTING A COURSE Use the 'Set OBS and Hold' menu option from the Map option menu to manually set your course to the destination.

Manually setting a course to the destination waypoint: 1) From the Main Menu, touch the Map or the Active FPL Icon. 2) Touch the Menu Icon. 38 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation 3) 4) Touch the Set OBS and Hold (only available when navigating a Direct To or Flight Plan). Touch the '+' or '-' Buttons to increase/decrease the value Or: Touch the Radial Button to enter the desired radial using the keypad and touch the OK Icon. Overview GPS Navigation Flight Planning Radial Button Map Option Menu Set OBS Hazard Avoidance Returning to automatic sequencing of route waypoints: 1) From the Main Menu, touch the Map or the Active FPL Icon. 2) Touch the Menu icon. 3) Touch the Release Hold menu option (only available when navigating a Direct To or Flight Plan). Additional Features 2.3 VERTICAL NAVIGATION (VNAV) The VNAV function provides settings for the vertical navigation.

These settings create a three-dimensional profile from the present location and altitude to a final (target) altitude at a specified location. When the VNAV profile is defined, the pilot is informed of the progress by message alerts. The teal bar on the HSI (when displayed) shows the VNAV profile. The Vertical Navigation feature is only available when navigating a Direct To or flight plan, and the ground speed is greater than 35 knots. Appendices Index 190-01194-00 Rev.

A Garmin aera 795/796 Pilot's Guide 39 GPS Navigation The "Approaching VNAV Profile" message appears one minute prior to the initial descent point. The descent angle locks to prevent changes in speed from altering the profile. The VNAV feature does not take into account any changes in groundspeed that occur during the transition from level flight to descent or climb. GPS Navigation Flight Planning Overview At 500 ft above the target altitude, the "Approaching Target Altitude" message appears, the 'Estimated Time To VNAV' goes blank, and the VNAV indicator disappears from the HSI.



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CAUTION: The aera 795/796 is a VFR navigation tool and should not be used to perform instrument approaches.

CAUTION: VNAV is only a VFR navigation aid and is not intended for instrument approaches. Additional Features Hazard Avoidance Visual Representation of VNAV Appendices Index USING THE VNAV FEATURE Use the VNAV (Vertical Navigation) feature to ensure the aircraft is at the proper altitude. The VNAV Indicator appears on the HSI (when displayed) as a horizontal teal bar. A message appears when approaching the VNAV Profile. When the bar is in the vertical center of the HSI, the aircraft is at the proper altitude for the VNAV Profile. 40 Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation Configuring a VNAV profile: 1) From the Main Menu, touch Tools > VNAV 2) Touch the desired fields ('Profile', 'Altitude', etc) to enter the VNAV profile. 3) Touch and hold the Back Icon to return to the 'Home' Screen. Overview GPS Navigation Flight Planning Hazard Avoidance Vertical Navigation

Waypoint--Enter any waypoint along the currently active route as the reference waypoint. The reference waypoint defines the target location.

Profile--Enter the descent rate. Altitude--Enter the desired reference waypoint altitude. Select 'Above Additional Features Waypoint' to use field elevation for airports in the Jeppesen database or 'MSL' to specify an exact MSL altitude target. By--Enter the target location with settings of distance 'Before' or 'After' a reference waypoint. To set a target location at a reference waypoint, enter a distance of zero. VNAV Messages--Select 'On' or 'Off' to enable/disable VNAV alert messages. Appendices Index Enabling/disabling the VNAV indicator: 1) From the Main Menu, touch the Map Icon. 2) Touch the Menu Icon 3) Touch the 'Enable VNAV Indicator' or 'Disable VNAV Indicator' menu option (only available when the Panel is shown). 41 190-01194-00 Rev. A Garmin aera 795/796 Pilot's Guide GPS Navigation Capturing/cancelling VNAV profile: 1) Enter a valid VNAV profile (see 'Configuring a VNAV Profile' below) and begin navigation.

2) From the Main Menu, touch the Map Icon. 3) Touch the Menu Icon 4) Touch the 'Capture VNAV Profile' or 'Cancel Capture' menu option (only available when navigating a Direct To or Flight Plan). VNAV Indicator Hazard Avoidance Flight Planning GPS Navigation Overview VNAV Indicator (Panel) Additional Features Appendices Index 2.4 MAP DISPLAY SETUP Map displays are used extensively in the aera 795/796 to provide situational awareness in flight. The Navigation Map, Terrain Map, Weather Map, VFR/IFR Charts, and the 3D Vision Map can display the following information: Airports,

NAVAIDs, airspace, airways, land data (highways, cities, lakes, rivers, borders, etc.

) with names Map Pointer information (distance and bearing to pointer, location of pointer, name, and other pertinent information) Maprange Aircrafticon (representing present position) Flightplanlegs Userwaypoints 42 Trackvector Garmin aera 795/796 Pilot's Guide 190-01194-00 Rev. A GPS Navigation Topographydata Overview MAP ORIENTATION Maps are shown in one of three different orientation options, allowing flexibility in determining aircraft position relative to other items on the map (North Up) or for determining where map items are relative to where the aircraft is going (Track Up), or desired track up (DTK UP). NorthUp aligns the top of the map display to north (default setting). TrackUp aligns the top of the map display to the current ground track. DesiredTrack (DTK) Up aligns the top of the map display to the desired course.

NOTE: The Map Orientation setting only affects the Navigation Map, Terrain Map, and the 3D Vision Map. NOTE: The Compass Arc will change depending on the Map Orientation GPS Navigation Flight Planning Hazard Avoidance Additional Features selected (i.e., 'North Up' = No Compass Arc displayed, 'Track Up' = Compass Arc displayed, 'Desired Track' = Compass displayed around the aircraft). Changing the Map orientation: 1) From the Main Menu, touch Map > Menu > Set Up Map 2) Touch the buttons to select the 'General' Category (if necessary). 3) Touch the 'Orientation' data option button. 4) Touch the desired option ('North Up', 'Track Up', or 'DTK Up'). Appendices AIRPORTS, NAVAIDS, CITIES & ROADS Setting up and customizing airports, NAVAIDS, cities & roads for the navigation map: 1) From the Main Menu, touch Map > Menu > Set Up Map 2) Touch the buttons to select the 'Airport', 'Navaid', 'City', or 'Road' Category. 3) Touch the buttons to select the desired settings (if available), or touch the Data Option Button to select from a list of options. 190-01194-00 Rev.

A Garmin aera 795/796 Pilot's Guide Index 43 GPS Navigation AIRWAYS Overview GPS Navigation Flight Planning Hazard Avoidance Low Altitude Airways (or Victor Airways) primarily serve smaller piston-engine, propeller-driven airplanes on shorter routes and at lower altitudes. Airways are eight nautical miles wide and start 1,200 feet above ground level (AGL) and extend up to but not including 18,000 feet mean sea level (MSL). Low Altitude Airways are designated with a "V" before the airway number (hence the name "Victor Airways") since they run primarily between VORs. High Altitude Airways (or Jet Routes) primarily serve airliners, jets, turboprops, and turbocharged piston aircraft operating above 18,000 feet MSL. Jet Routes start at 18,000 feet MSL and extend upward to 45,000 feet MSL (altitudes above 18,000 feet are called "flight levels" and are described as FL450 for 45,000 feet MSL). Jet Routes are designated with a "J" before the route number. Low Altitude Airways are drawn in gray. High Altitude Airways are drawn in green. When both types of airways are displayed, high altitude airways are drawn on top of Low Altitude Airways. When airways are selected for display on the map, the airway waypoints (VORs, NDBs and Intersections) are also displayed.

Displaying/removing airways: 1) From the Main Menu, touch Map > Menu > Set Up Map 2) Touch the buttons to select the 'Navaid' Category. 3) Touch the 'Airways' data option button to select the desired setting ('Off', 'Low', 'High', or 'Both'). Additional Features Appendices Index 2.5 WAYPOINTS Waypoints are predetermined geographical positions (internal database) or pilot entered positions, and are used for all phases of flight planning and navigation. Waypoints can be selected by entering the ICAO identifier, entering the name of the facility, or by entering the city name.



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