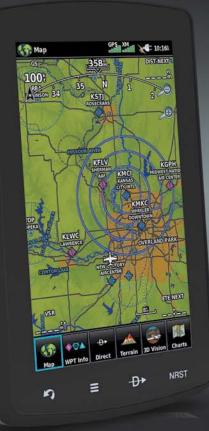


# models: 795 and 796



**Quick Reference Guide** 

#### **OVERVIEW**

**GPS NAVIGATION** 

**FLIGHT PLANNING** 

HAZARD AVOIDANCE

UTILITIES

**APPENDIX** 

**INDEX** 

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This manual reflects the operation of System Software version 0002.0 or later. Some differences in operation may be observed when comparing the information in this manual to earlier or later software versions.

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**WARNING:** When installing the aera<sup>™</sup> 795/796, place the unit so it does not obstruct the field of view or interfere with operating controls.



T

**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**WARNING:** Do not use outdated database information.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 Pilots using any outdated database do so entirely at their own risk.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.





**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.





**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 hightemperature 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.

#### 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.





**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.

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Appendix



Garmin aera 795/796 Ouick Reference Guide

# **1.1 UNIT OVERVIEW**

**SECTION 1 OVERVIEW** 

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The purpose of this document is to provide a resource with which to find operating instructions on the major features of the aera 795/796 more easily. This Quick Reference Guide is not intended to be a comprehensive operating guide. Refer to the aera 795/796 Pilot's Guide for complete operating procedures and warnings.





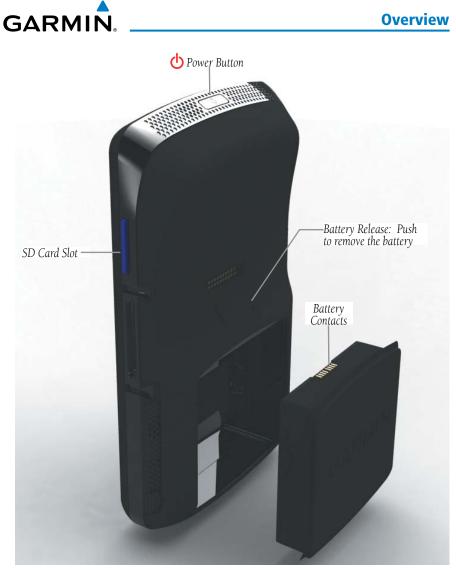
#### Unit Overview (Right Side)

# **1.2 GETTING STARTED**

# **BATTERY INSTALLATION**

#### Installing the battery:

- Locate the lithium-ion battery that came in the product box. 1)
- Locate the metal contacts on the end of the lithium-ion battery. 2)
- Insert the battery so that the metal contacts on the battery line-up with the 3) metal contacts inside the battery compartment.
- 4) Insert the battery into the battery compartment, and push until it clicks into place.



#### Unit Overview (Back - Battery Out)

Appendix

Utilities

Overview

GPS Navigation Flight Planning Hazard Avoidance



# **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.

#### Charging the unit's battery using the aircraft's power outlet:

- Mount the aera 795/796 in the aircraft and connect the power cable to the 1) aircraft power outlet (cigarette lighter receptacle).
- Route the power cable so that it does not interfere with aircraft operation. 2) The unit begins charging as soon as external power is applied.

# **GPS RECEIVER STATUS**

The **Section** bars located at the top of the screen indicate the GPS signal strength.

#### Viewing the GPS status:

From the **Main Menu**, touch **Tools** > **GPS Status**.

# **DISPLAY ORIENTATION**

The aera 795/796 can be viewed in either Portrait or Landscape Mode.

#### Changing the display orientation:

From the Main Menu, touch Tools > Setup > Display 1) Or:

Press the Power Button once quickly.

Touch the 'Display Orientation' datafield to select **Portrait** or Landscape. 2)

# GARMIN **1.3 OPERATION**

# **BASIC TOUCHSCREEN OPERATION**

Touch the desired selection. The icon, view, menu option, datafield, etc, will momentarily turn blue when selected.



**Basic Touchscreen Operation** 



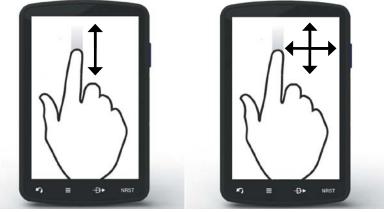
### SCROLLING AND PANNING

#### 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.



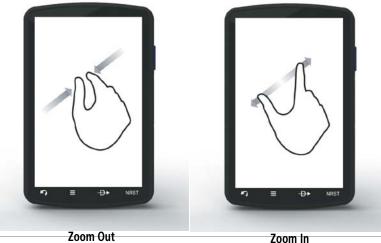


Panning

# ZOOMING

#### Zooming in and out on the touchscreen map displays:

Pinch fingers together (zoom out), or pull fingers apart (zoom in).



Zoom Out Garmin aera 795/796 Ouick Reference Guide

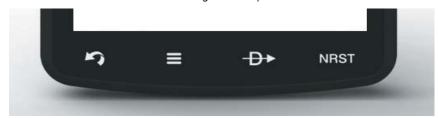
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# GARMIN

# 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:



5	Back	Returns to previous screen. Cancels the map pointer.
う	Main Menu (Shortcut)	Touch and hold to display the Main Menu.
	Menu	Displays the context sensitive option menu.
<b>-D</b> •	Direct-to	Displays the <b>Direct-to</b> function.
NRST	NRST	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.

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:**

- Main Menu, touch Tools > Setup > Display > Choose Buttons 1)
- From the available Page Buttons at the top half of the screen, touch the 2) new Page Button that will replace one of the current Page Buttons.

١



- From the current Page Buttons along the bottom of the screen, touch the 3) Page Button that will be replaced by the new page button. The current Page Button is now replaced by the new Page Button.
- Touch Save. 4)

# MAIN MENU

Touch and hold the **Solution** icon at any time to display the **Main Menu**.

### MAIN MENU ICONS

Touch the following icons to display the associated function:

•	Мар	Displays the Map View.
	Terrain	Displays the Terrain View.
	3D Vision	Displays 3D Vision.
Ø	WPT Info	Displays the Waypoint Information.
FPL1	FPL List	Displays the Flight Plan List.
$\overline{\mathbf{x}}$	Active FPL	Displays the Active Flight Plan.
р 107ет	Numbers	Displays flight data.
1	Doc Viewer	Displays the document viewer.
A	Charts	Displays the VFR or IFR charts.
	Weather	Displays second-level Weather Icons (aera 796).
>	SiriusXM	Displays SiriusXM Radio (aera 796).
T.	Tools	Displays second-level Tools Icons.

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Utilities



# **NEAREST ICONS**

Touch the **NRST** icon at any time to access the second-level Nearest icons.

Touch the following icons to display the associated function:

>	Airport	Displays nearest airports.
77-	Airport WX	Displays nearest airport weather.
•	VOR	Displays nearest VORs.
•	NDB	Displays nearest NDBs.
	Intersection	Displays nearest intersections.
~	VRP	Displays nearest Visual Reporting Point (VRP) (Atlantic).
	User WPT	Displays nearest user waypoints.
	City	Displays nearest cities.
**	ARTCC	Displays nearest ARTCCs (Air Route Traffic Control Centers).
<b>*</b>	FSS	Displays nearest Flight Service Stations (FSS).
	Airspace	Displays nearest airspace.

# WEATHER ICONS (aera 796)

From the **Main Menu**, touch the **Weather** icon to access the second-level Weather lcons.

Touch the following second-level Icons to display the weather product:

1	NEXRAD	Displays NEXRAD (NEXt-generation RADar).
-	Satellite	Displays Satellite Mosaic cloud cover.
115 S	Echo Tops	Displays Echo Tops.
11	Winds	Displays Winds Aloft.
7	Lightning	Displays Lightning.
ſ	Storm Cells	Displays Storm Cells.

Overview

#### **Overview**



METAR	Displays METARs.
AIRMET	Displays AIRMETs.
SIGMET	Displays SIGMETs.
TFR	Displays TFRs (Temporary Flight Restrictions).
PIREP	Displays PIREPs.
Freeze Lvl	Displays Freezing Levels.
Turb Fcst	Displays the Turbulence Forecast.
Icing Fcst	Displays the Icing Forecast.
WX Frst	Displays Forecast Information (current, 12hr, 24hr, 36hr, & 48hr).
Pressure	Displays Surface Pressure.
Sea Temp	Displays Water Temperature.
	AIRMET SIGMET TFR PIREP Freeze Lvl Turb Fcst Icing Fcst WX Frst Pressure

## 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	Displays User Waypoints and Proximity Waypoints.
7	Flight Log	Displays Flight Logs.
	Track Log	Displays Track Logs.
2	VNAV	Displays Vertical Navigation.
	Profile	Displays Aircraft Profiles.
<b>)</b>	E6B Calc	Displays the E6B Calculator.

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P	Weight/Bal	Displays the Weight & Balance.
011011 11000 001101 010011	Database	Displays database and software version information.
	Position	Displays the aircraft's Present Position.
	Checklists	Displays the checklists if available.
10	Scratchpad	Displays the scratchpad.
9	GPS Status	Displays GPS status information.

#### **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:

1	Display	Displays backlight intensity/timeout and color mode settings.
~E()	Sound	Displays sound settings.
40	Units	Displays unit settings.
13	Date/Time	Displays date & time settings.
1	Мар	Displays Navigation Map settings.
100	Position	Displays position settings.
to the second se	Interface	Displays interface settings.
<b>1</b>	Alarms	Displays alarm settings.
1	SUA Alarms	Displays Special Use Airspace alarm settings.
<b>K</b>	Power	Displays Power Loss Warning settings.
£	Keyboard	Displays keyboard layout settings.



# 1.4 MENUS AND DATA ENTRY

# **OPTION MENUS**

The aera 795/796 has a dedicated 📃 Icon that displays a context-sensitive list of menu options available.

#### Navigating the option menu:



1 Touch the 🔳 Icon





# **DATA ENTRY**

1	- 11	6:25		Set Up
ther	Terrain 3D Vision	Charts		Map Info
)	-Ð+	NRST		5

# DATA ENTRY ICONS

The following icons are displayed on the data entry screen.

<b>V</b>	ОК	Exits the keypad function and accepts the changes.
	BKSP	Erases the current data.
1 <sub>2</sub> 3 A <sub>B</sub> C &,?	Numeric/ Alpha/Symbol	Displays the numeric, alpha, or symbol keypad.
	Cancel	Cancels a value that has been edited.

#### **Entering alphanumeric data:**

- When alphanumeric data can be entered, a keypad will appear after touching the desired datafield.
- 2 Touch the keypad to enter the desired data.

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**3** Touch **OK**.



#### **Entering predetermined data options:**

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).

**0r**:

Touch the **I** buttons to cycle through a horizontal list (if more than two data options are available).



Detail	Level				Detai	Level				
			Normal						Normal	
Autozoom				Autoz	Autozoom			North Up		
Orientation				Orien	Orientation			Track Up		
		Track Up					DTK Up			
Kap	♦©▲ 💏 WPT Info Weather	Terrain	10 Vision	Charts	13 Map		Weather	A Terrain	3D Vision	Charts
5	=	-	•	NRST	5			-E	)►	NRST



# 1.5 USING MAP DISPLAYS

### 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.

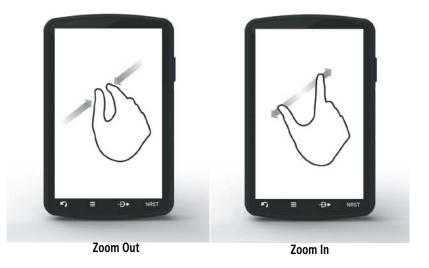
#### Changing the map range:

Use the 🔎 (out) or 🔎 (in) icons to zoom 'out' (increasing), or zoom 'in' (decreasing).



#### Or:

Pinch fingers together (zoom out), or pull fingers apart (zoom in).



Overview

Appendix



### OVERZOOM

When the selected range exceeds the resolution of the map data, 'overzoom' appears below the map range scale.



Map Range/Overzoom

# 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 **I** buttons to select the **'General'** Category.
- 3) Touch the '**On/Off**' Data Option Button for 'Autozoom'.

# **MAP PANNING**

Map panning allows the pilot to:

- View parts of the map outside the displayed range without adjusting the map range
- Highlight and select locations on the map
- Review information for a selected airport, NAVAID or user waypoint
- Designate locations for use in flight planning
- View airspace and airway information

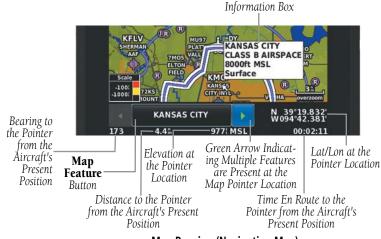
When the panning function is selected by touching anywhere on the Map, the Map Pointer is displayed. An Information Window also appears at the bottom of the map display showing the the bearing, distance and time to the pointer from the aircraft's present position, the elevation of the land at the position of the pointer, or the object's (airports, obstacles, etc) elevation, if known.

#### **Overview**



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 through the list of map features present at that position.



#### Map Panning (Navigation Map)

#### 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:

GARMIN

- 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.
- **3** Touch the Map Feature Button to review information for the Map Feature.
- $\bigcirc$  If desired touch the **Direct-to**  $\rightarrow$  Icon to navigate to the map feature.





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## **MAP OVERLAYS**

The **1**Weather, **2**Topography, and **3**Terrain map overlays can be displayed or removed.



#### Displaying/removing map overlays:

- From the **Main Menu**, touch **Map** > **Menu** > **Show/Hide**. 1)
- 2) Touch the 'Show/Hide' Data Option Button for the desired overlay.

# SECTION 2 GPS NAVIGATION

# 2.1 FLIGHT DATA

# DATA FIELDS

GARMIN

#### Changing the information shown in the data fields:

- From the Main Menu, touch the Map Icon or touch the Map View Icon at 1) the bottom of the screen.
- Touch the **Menu** Icon. 2)
- Touch the 'Change Data Fields' menu option. 3)
- Touch the desired Data Field to change. A list of available Data Field 4) Options is displayed.
- Touch the desired Data Field Option. 5)
- 6) Touch the **OK** Icon

# NUMERIC FLIGHT DATA

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**.
- Touch the desired data field to change. The available data fields are 2) displayed.
- Touch the desired data field. 3)
- Touch **OK**. 4)

#### **Restoring default numeric flight data:**

From the Main Menu, touch Numbers > Menu > Restore Default.



# 2.2 HSI/PANEL

Hazard Avoidance Flight Planning GPS Navigation

# SETTING THE BUG INDICATOR

The Bug Indicator can be set from the  $\ensuremath{\textbf{Map}}$  option menu.

#### Setting the Bug Indicator:

- 1) From the Main Menu, touch Map > Menu > Set Bug Indicator.
- Touch the desired menu option ('User Selected', 'Bearing', 'Course to Steer', or 'Off').

# **MANUALLY SETTING A COURSE**

Use the 'Set OBS and Hold' menu option 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 lcon.
- 2) Touch the Menu Icon.
- **3)** Touch the **Set OBS and Hold** (only available when navigating a Direct To or Flight Plan).
- 4) Touch the '+' or '-' Buttons to increase/decrease the valueOr:

Touch the Radial Button to enter the desired radial using the keypad and touch the  ${\bf OK}$  lcon.

#### Returning to automatic sequencing of route waypoints:

- 1) From the Main Menu, touch the Map or the Active FPL lcon.
- 2) Touch the **Menu** icon.
- **3)** Touch the **Release Hold** menu option (only available when navigating a Direct To or Flight Plan).

Utilities



# 2.3 VERTICAL NAVIGATION (VNAV)

# **USING THE VNAV FEATURE**

#### Configuring a VNAV profile:

- 1) From the Main Menu, touch Tools > VNAV
- 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.

#### 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).

#### 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).



# 2.4 WAYPOINTS

#### Selecting an airport for review by identifier, facility name, or city:

- From the **Main Menu**, touch **WPT Info** > **Info** Tab (if necessary). 1)
- 2) Touch the Waypoint Identifier Button (top of page).
- 3) Enter the desired waypoint:
  - a) Touch the **I** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).
  - **b)** Touch the 'Search' Button (between the **Search**).
  - c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
  - d) Touch OK.

#### Or:

- a) Touch the **I** buttons to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.

#### Selecting a runway for review by identifier, facility name, or city:

- From the **Main Menu**, touch **WPT Info** > **Info** Tab. 1)
- 2) Touch the Waypoint Identifier Button.
- Enter the desired waypoint: 3)
  - a) Touch the **I** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).
  - **b)** Touch the 'Search' Button (between the **LD**).
  - c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
  - d) Touch OK.

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Or:

- a) Touch the **Solutions** to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.
- 4) Touch the desired Runway Button. The map range becomes 0.2 nm and centers on the desired runway. Touch the Runway Button again to return to the previous map range.

# NEAREST INFORMATION

#### Viewing nearest information:

- 1) Touch NRST.
- Touch the desired Nearest Icon (Airport, Airport WX, VOR, NDB, 2) Intersection, VRP, User WPT, City, ARTCC, FSS, or Airspace).
- Touch the desired nearest option from the list twice for additional 3) information.

Or<sup>.</sup>

If viewing Nearest ARTCCs or FSSs, touch the **Second** buttons to cycle through the list

Touch the **Back** Icon to return to the second level Nearest Icons. 4)

Or<sup>.</sup>

Touch **Direct To D**, then the Activate Button to navigate Direct-to the selected waypoint.

# TEXTUAL WEATHER INFORMATION (AERA 796)

Textual weather information can be viewed several different ways.

#### Viewing textual airport weather information:

- From the **Main Menu**, touch the **WPT Info** Icon. 1)
- Enter the desired waypoint: 2)
  - a) Touch the **I** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).



- **b)** Touch the 'Search' Button (between the **ID**).
- c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
- d) Touch OK.

Or:

- a) Touch the **I** buttons to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.
- Touch the **WX** Tab. 3)
- 4) If desired touch **Menu** > **Show Raw Text/Show Decoded Text** to switch from raw data to decoded data

#### Or:

- 1) Touch NRST > Airport WX.
- 2) Touch the desired Nearest Airport Weather from the list.

#### Or:

- 1) From the **Main Menu**, touch the **Weather** > **METAR**.
- Touch the desired METAR flag. 2)
- 3) Touch the Map Feature Button with the desired identifier displayed (refer to 'Map Panning' in the Overview Section for more information). The weather information is displayed.
- If desired touch Menu > Show Raw Text/Show Decoded Text to switch 4) from raw data to decoded data.

Or:

- 1) From the Main Menu, touch the Map Icon.
- 2) Touch the desired METAR Flag (If the METAR flags are not displayed, adjust the settings from the 'Set Up Map' menu option).
- Touch the Map Feature Button with the desired identifier displayed (refer to 3) 'Map Panning' in the Overview Section for more information). The weather information is displayed.
- 4) If desired touch **Menu** > **Show Raw Text/Show Decoded Text** to switch from raw data to decoded data.

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# USER WAYPOINTS

#### Creating user waypoints:

- Touch the desired point on the map. 1)
- Touch **Menu** > **Create Waypoint** 2)
- Enter the desired user waypoint name (up to 20 characters). Refer to the 3) Overview Section on 'Data Entry' for more information.
- Touch the **OK** Icon. 4)

# 2.5 DIRECT-TO NAVIGATION

Entering a waypoint identifier, facility name, or city as a direct-to destination:

- 1) Touch the Direct To → Icon.
- 2) Touch **Menu** > **Resume Navigation** (if available).

Or:

- a) Touch the 'Search by Identifier', 'Search by Facility Name', or 'Search by City' fields.'.
- **b)** Enter the desired Identifier, Facility Name, or City using the keypad. Refer to the Overview Section on 'Data Entry' for more information.
- c) Touch the **OK** lcon.

0r

- a) Touch 'More...'.
- b) Touch the **Los** buttons to view '**Flight Plan Waypoints**', '**Nearest** Airports', or 'Recent Waypoints'.
- c) Touch the desired waypoint from the list.
- Touch the Activate Icon (if necessary). 3)

#### Selecting a nearby airport as a direct-to destination:

- 1) Touch **NRST** > **Airport**.
- Touch the desired nearest airport. 2)
- 3) Touch Direct To **DP**.
- Touch Activate. 4)

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#### Selecting a waypoint as a direct-to destination using the pointer:

- With the Navigation Map, Terrain Map, Weather Map, 3D Vision Map, or 1) VFR/IFR Charts displayed, activate the map pointer by touching the desired waypoint. If no airport, NAVAID, or User Waypoint exists at the desired location, a temporary waypoint named 'Map Pointer' is automatically created at the location of the map pointer.
- Touch **Direct D**►. 2)
- 3) Touch Activate.

#### Cancelling a direct-to:

Touch Direct To **D**► > Stop Nav.

#### Or:

From the **Main Menu**, touch the **Active FPL** > **Menu** > **Stop** Navigation

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## SECTION 3 FLIGHT PLANNING

## 3.1 FLIGHT PLAN DATA FIELDS

The Active and Saved Flight Plan Data Fields can be changed by touching the Data Field Buttons at the top of the flight plan.

#### Changing the information shown in the flight plan data fields:

From the Main Menu, touch the Active FPL lcon. 1)

Or:

- a) From the Main Menu, touch FPL List.
- **b)** Touch the desired Saved Flight Plan from the list. An option menu appears.
- c) Touch the 'Review Flight Plan' menu option.
- Touch the desired Data Field Button at the top of the Flight Plan. 2)
- Touch the desired Data Field. The currently selected Data Field is outlined 3) blue.
- Touch the **OK** Icon. 4)
- If desired, repeat Steps 2-4 for the remaining Data Field. 5)

## 3.2 FLIGHT PLAN CREATION

The active flight plan is the flight plan to which the aera 795/796 is currently providing guidance, and is shown on the navigation maps. Stored flight plans are flight plans available for activation (becomes the active flight plan).

### Creating an active flight plan:

- From the Main Menu, touch the Active FPL lcon. 1)
- Touch the 'Touch to add Waypoint' Button. 2)

#### **Flight Planning**



- Enter the desired waypoint: 3)
  - a) Touch the **I** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).
  - **b)** Touch the 'Search' Button (between the **LD**).
  - c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
  - d) Touch OK.

#### Or:

- a) Touch the **I** buttons to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.
- 4) Repeat Steps 2-4 to enter each additional waypoint.

#### Creating a stored flight plan:

- From the Main Menu, touch FPL List > Menu > New Flight Plan. 1)
- 2) Touch the 'Touch to add Waypoint' Button.
- 3) Enter the desired waypoint:
  - a) Touch the **I** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).
  - **b)** Touch the 'Search' Button (between the **Search**).
  - c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
  - d) Touch OK.

#### Or:

- a) Touch the **I** buttons to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.

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Repeat Steps 2-4 to enter each additional waypoint. 4)

## 3.3 ADDING FLIGHT PLAN WAYPOINTS

#### Adding a waypoint to an active or stored flight plan:

- With an active or saved flight plan displayed, touch the desired point 1) of insertion. The new waypoint will be added in front of the selected waypoint. An option menu will appear.
- Touch the 'Insert Waypoint' menu option. 2)
- 3) Enter the desired waypoint:
  - a) Touch the **Sec** buttons to display the desired search option on the 'Search' Button ('Search by Identifier', 'Search by Facility Name', 'Search by City', 'Search by Address' (only available with the optional City Navigator data), or 'Search by Crossroads' (only available with the optional City Navigator data).
  - **b)** Touch the 'Search' Button (between the **Search**).
  - c) Enter the desired data using the keypad. If duplicate entries are displayed, touch the desired duplicate from the list.
  - d) Touch OK.

Or:

- a) Touch the **Sec** buttons to cycle through the waypoint categories ('Flight Plan Waypoints', 'Nearest Airports', or 'Recent Waypoints').
- **b)** Touch the desired waypoint from the list.

### Loading an approach procedure into a stored flight plan:

An Approach Procedure can be loaded at any airport that has an approach available. Only one approach can be loaded at a time in a flight plan. The route for a selected approach is defined by designating transition waypoints.

- With an active flight plan displayed, touch the **Menu** Icon 1)
- Touch the 'Select Approach' menu option. A vertical list of available 2) approaches is displayed.
- Touch the desired approach. The designated transition waypoints are 3) added to the flight plan.



## 3.4 FLIGHT PLAN STORAGE

#### Viewing information about a stored flight plan:

- From the Main Menu, touch FPL List 1)
- 2) Touch the desired saved flight plan. An option menu is displayed.
- Touch the 'Review Flight Plan' menu option. 3)

#### Storing an active flight plan:

- With the Active Flight Plan displayed, touch the **Menu** Icon. 1)
- Touch the 'Save Flight Plan' menu option. A confirmation window 2) appears.
- Touch Yes. A copy of the flight plan is stored in the next available position 3) in the Flight Plan List.

## 3.5 FLIGHT PLAN ACTIVATION

#### Activating a stored flight plan:

- From the Main Menu, touch FPL List 1)
- 2) Touch the desired saved flight plan. An option menu is displayed.
- Touch the 'Activate Flight Plan' menu option. A confirmation window 3) appears.
- 4) Touch Yes.

### **Activating a Flight Plan Leg:**

- From the Main Menu, touch the Active FPL lcon. 1)
- While navigating an active flight plan, touch the desired leg to be activated. 2) An option menu automatically appears.
- Touch the 'Activate Leg' menu option. 3)
- 4) Touch Yes.

## 3.6 FLIGHT PLAN DELETION

#### Deleting a stored flight plan:

While reviewing the desired Stored Flight Plan, touch the **Menu** > **Delete** Flight Plan > Yes

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#### Or:

With the Flight Plan List displayed, touch the desired flight plan to delete, and touch **Delete Flight Plan** > **Yes**.

#### Deleting all stored flight plans:

From the Main Menu, touch FPL List > Menu > Delete All > Yes.

## **3.7 APPROACHES**



**WARNING:** The aera 795/796 is not designed to be independently used for flight into instrument meteorological conditions (IMC) or other conditions in which aircraft control is based solely upon flight instruments. The approaches provided are for monitoring purposes only. Only the final course segment (final approach fix (FAF) to missed approach point (MAP)) of the published approach is available for monitoring.

An approach can be selected using the Direct-to, Active Flight Plan, and the Saved Flight Plan functions.

#### Selecting an approach from the active or saved flight plan:

1) From the Main Menu, touch the Active FPL Icon.

Or:

- a) From the Main Menu, touch the FPL List Icon.
- **b)** Touch the desired Saved Flight Plan from the list. An option menu appears.
- c) Touch the 'Review Flight Plan' menu option.
- 2) With the flight plan displayed, touch the **Menu** lcon.
- **3)** Touch the '**Select Approach**' menu option (only available if the destination airport has a published approach). A vertical list of available approaches is displayed.
- 4) Touch the desired approach. The 'Vectors to Final?' window appears.
- 5) Touch 'Yes' or 'No'. The procedure is added to the end of the flight plan. If activating an approach from the Active Flight Plan, the aera 795/796 immediately begins to provide guidance to the first waypoint in the approach.

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#### Selecting an approach using the Direct To function:

- 1) Touch Direct To > Menu .
- 2) Touch the 'Select Approach' menu option (only available when navigating a flight plan. A vertical list of available approaches is displayed.
- 3) Touch the desired approach. The 'Vectors to Final?' window appears.
- **4)** Touch '**Yes**' or '**No**'. The procedure is added to the end of the Active Flight Plan and the aera 795/796 immediately begins to provide guidance to the first waypoint in the approach.

### Resuming the Flight Plan after selecting an approach:

Whenever an approach is selected the aera 795/796 automatically activates the approach. The procedure is added to the end of the flight plan and immediately begins to provide guidance to the first waypoint in the approach. Follow the steps below to resume the flight plan after activating the approach.

## From the Main Menu, touch Active FPL > Menu > Resume Navigation.

Or:

#### Touch Direct To → > Resume Nav

Or:

#### Touch **Direct To** > **Menu** > **Resume Navigation**.

#### Removing an approach:

1) Using a flight plan with an approach loaded, touch the **Active FPL** Icon on the **Main Menu**.

Or:

- a) From the Main Menu, touch FPL List.
- **b)** Touch the Saved Flight Plan with an approach loaded. An option menu appears.
- c) Touch the 'Review Flight Plan' menu option.
- 2) Press the Menu Icon.
- **3)** Touch the '**Remove Approach**' menu option (only available if an approach is loaded).

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## **SECTION 4 HAZARD AVOIDANCE**

## 4.1 SIRIUSXM<sup>®</sup> WEATHER (aera 796)

#### Viewing SiriusXM Weather products on the Navigation Map:

- From the Main Menu touch the Map Icon. 1)
- 2) Touch the **Menu** lcon.
- Touch the 'Show/Hide...' menu option. 3)
- 4) Touch the Weather 'Show/Hide' Button.

#### Viewing SiriusXM Weather products on the Weather Map:

- From the **Main Menu** touch the **Weather** Icon. 1)
- 2) Touch the desired second-level Weather Icon
- If necessary, touch the **I** buttons to scroll through the list of available 3) altitudes, AIRMET types, or forecast times.
- Touch the desired weather product to get abbreviated information about 4) the selected weather product (if available).
- With the desired weather product highlighted, touch the Map Feature 5) Button to get detailed information (if available).

## **4.2 TERRAIN**

#### Enabling/Disabling Terrain Shading on the Navigation Map:

- From the Main Menu touch the Map Icon. 1)
- 2) Touch the **Menu** Icon.
  - a) Touch the 'Show/Hide...' menu option.
  - **b)** Touch the **Terrain** '**Show**/**Hide**' Button to toggle the terrain overlay on/off.

Or:

- a) Touch the 'Set Up Map' menu option.
- **b)** Touch the **ID** buttons until the **'Map**' Category is displayed.



- c) Touch the Terrain Shading Field.
- **d)** Touch the **On/Off** Button.

## 4.3 TRAFFIC INFORMATION SERVICE (TIS)



**NOTE:** Refer to the aera 795/796 Pilot's Guide for information on configuring TIS.

#### **Adjusting TIS audio:**

- 1) From the Main Menu, touch Tools > Setup > Sound.
- 2) Touch the TIS Audio On/Off Button to toggle the terrain audio on/off, or touch the **Alerts** Key Icon to mute both TIS and Terrain alerts.

#### Or:

Touch the **Alerts I** buttons to select an alert volume (0-10).

#### Adjusting TIS settings on the navigation map:

- From the **Main Menu**, touch **Map** > **Menu** > **Set Up Map**. 1)
- 2) Touch the **Map** Category.
- 3) Touch TIS Traffic.
- Touch the **I** buttons to select the desired settings ('**Off**', '**Auto**', or 4) range settings).

#### Displaying TIS information using the map pointer:

With traffic displayed on the Navigation Map, touch the desired TIS symbol on the map. The traffic range and altitude separation is displayed.

### TRAFFIC WARNING WINDOW

When a traffic threat is imminent, the Traffic Warning Window is shown. The Traffic Warning Window shows a small pop-up thumbnail map in the lower left corner. The Range Rings on the pop-up alert are spaced every whole mile/kilometer/nautical mile. Touch the Traffic Warning Window to acknowledge and remove it.

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## SECTION 5 UTILITIES

## 5.1 FLIGHT LOG

#### Viewing details for a flight:

- From the **Main Menu**, touch **Tools** > **Flight Log**. 1)
- 2) Touch the desired flight log.

### **Deleting flight records:**

- From the **Main Menu**, touch **Tools** > **Flight Log**. 1)
- Touch the desired flight log to delete(if applicable). 2)
- Touch **Menu**. 3)
- Touch 'Delete Flight' or 'Delete All'. 4)
- Touch Yes. 5)

## 5.2 TRACK LOG

#### Showing/hiding the track log on the Navigation Map:

- From the **Main Menu**, touch **Map** > **Menu** > **Set Up Map**. 1)
- Touch the **I** buttons to display the **'Line'** Category. 2)
- Touch Track Log. 3)
- Touch the **Show/Hide** Button. 4)

### Changing track log settings:

- From the **Main Menu**, touch **Map** > **Menu** > **Set Up Map**. 1)
- Touch the **Line**' buttons to display the '**Line**' Category. 2)
- Touch Track Record Mode, Track Interval, or Track Color. 3)
- Touch the desired setting. 4)

### Clearing the track log:

- From the **Main Menu**, touch **Tools** > **Track Log**. 1)
- 2) Touch the desired track log (if applicable).
- Touch Menu. 3)

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- Touch 'Delete Saved Track' or 'Delete All Saved Tracks'. 4)
- 5) Touch **Yes**.

#### Saving a track log:

- From the Main Menu, touch Tools > Track Log > Menu > Save 1) Active Track
- Touch the **I** buttons to select **'Entire Active Track**', **'Past 24 Hours**', 2) 'Past 7 Days', or 'Specific Dates'.
- Enter the Specific Dates (if applicable) and touch **OK**. 3)

#### Editing a track log:

- 1) From the **Main Menu**, touch **Tools** > **Track Log**.
- 2) Touch the desired track log.
- 3) Touch desired field to edit (Track Name, Show On Map, or Color).

## 5.3 E6B CALCULATOR

The E6B Calculator calculates Density Altitude, True Airspeed, Tail Wind, Wind From, and Wind Speed, based on information you enter.

#### Accessing the E6B calculator:

From the **Main Menu**, touch **Tools** > **E6B Calc**.

#### Calculating true airspeed and density altitude:

- From the **Main Menu**, touch **Tools** > **E6B Calc**, enter the altitude shown 1) on the altimeter into the 'Indicated Altitude' datafield.
- Repeat for 'Calibrated Airspeed', 'Baro Pressure', and 'Total Air 2) Temperature' datafields. (For Calibrated Airspeed, use the speed shown on the airspeed indicator. Use the current altimeter setting for Baro Pressure. Total Air Temperature is the temperature of the outside air including the heating effect caused by speed. For most aircraft, this is the temperature reading on a standard outside air temperature gauge.) The calculated figures for True Airspeed and Density Altitude are shown in the designated fields

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#### Calculating winds aloft:

- 1) From the **Main Menu**, touch **Tools** > **E6B Calc**, calculate or enter the true airspeed into the 'True Airspeed' datafield.
- Enter the aircraft heading shown on the directional gyro or compass 2) into the 'Heading' datafield. Tail Wind, Wind From, and Wind Speed are calculated.

**NOTE:** If True North is selected as the heading reference, a heading referenced to True North must be used to calculate winds accurately.

#### **Restoring E6B calculator defaults:**

From the Main Menu, touch Tools > E6B Calc > Menu > Restore Default.

## 5.4 AIRCRAFT PROFILE

#### Accessing the aircraft profile:

From the **Main Menu**, touch **Tools** > **Profile** 

#### Entering an aircraft profile:

- From the Main Menu, touch Tools > Profile > Menu > New 1)
- Enter the Aircraft Name using the keypad, and touch **OK**. 2)
- 3) Enter the Cruise Speed, Maximum Speed, or Fuel Flow using the +/buttons or the keypad.
- Touch the 'Map Symbol' datafield button. 4)
- Touch the **Second** buttons to cycle through the available symbols and touch 5) OK.

#### Selecting a saved aircraft profile:

- From the Main Menu, touch Tools > Profile 1)
- Touch the Aircraft Name Button to access a vertical list of saved profiles (if 2) only two profiles are available touch the Aircraft Name Button to toggle between the two).
- Touch the desired profile from the list. 3)

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#### Renaming a saved aircraft profile:

- From the **Main Menu**, touch **Tools** > **Profile** 1)
- Touch the Aircraft Name Button to access a vertical list of saved profiles. 2)
- 3) Touch the desired profile from the list.
- 4) Touch **Menu** > **Rename**
- Enter the new Aircraft Name using the keypad, and touch **OK**. 5)

#### Deleting a saved aircraft profile:

- 1) From the **Main Menu**, touch **Tools** > **Profile**
- 2) Touch the Aircraft Name Button to access a vertical list of saved profiles.
- Touch the desired profile from the list. 3)
- 4) Touch Menu > Delete
- Touch Yes. 5)

## 5.5 WEIGHT & BALANCE

**NOTE:** This information is only for flight planning purposes. Consult the aircraft's pilot operating handbook for the official weight and balance data.

#### To perform weight and balance calculations:

- From the Main Menu, touch Tools > Weight/Bal 1)
- Touch the datafields to enter the desired weights and arms (or "stations"). 2) The calculated moment, weight, and CG figures appear at the bottom of the screen. Keep in mind that the "Aircraft" (empty weight/arm) figures must be entered as a reference to calculate a valid moment, weight, and CG.
- To empty the aircraft, touch **Menu** > **Empty Aircraft**. 3)

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Appendix



## **SECTION 6 APPENDIX**

## **MISCELLANEOUS MESSAGE ADVISORIES**

Message	Comments
Approaching Target Altitude	Within 200 feet of final VNAV target altitude.
Approaching VNAV Profile	The aircraft is within one minute of reaching the initial VNAV decent point.
Arriving at XXX	The aircraft is nearing the destination.
Battery Low	The battery needs to be recharged.
Can't Unlock Maps	No applicable unlock code for one or more maps was found. All MapSource maps are not accessible.
Check XM Antenna	Internal problem with the GXM antenna. Contact Garmin Product Support.
Database Error	Internal problem with the system. Contact your dealer or Garmin Product Support to have the unit repaired.
Fuel Tank	A reminder for switching fuel tanks. The reminder message repeats at the specified interval after the beginning of each trip.
GPS antenna shorted to ground	The GPS antenna connection detects the GPS antenna RF connector is shorted to ground.
Lost Satellite Reception	The system is unable to receive satellite signals.
Memory Full	System memory is full, no further data can be saved.
Near Proximity Point	You have reached the distance set for a proximity waypoint.
Next DTK XXX	The aircraft is nearing a turn in a route.
Proximity Memory Full	No additional proximity waypoints can be saved.
Proximity Radius Overlaps	The radius of two proximity waypoints overlap.
Route Already Exists	A route name that already exists has been entered.
Route Memory Full	No additional routes can be saved.



#### **MISCELLANEOUS MESSAGE ADVISORIES (CONT.)**

Message	Comments
Route Truncated	Uploaded route from another device has more than 300 waypoints.
Route Waypoint Memory Full	No additional route waypoints can be saved.
Steep Turn Ahead	Approaching a turn that requires a bank angle in excess of 25 degrees to stay on course.
Track Already Exists	A saved track with the same name already exists.
Track Log Full	The track log is full and track recording was turned off. To record more track points, you need to clear the track log and turn track recording on.
Track Memory Full	No more track data can be stored. Delete the old track data to store the new data.
Track Truncated	A complete uploaded track will not fit in memory. The oldest track log points have been deleted.
VNAV Cancelled	VNAV function has been cancelled due to a change in the active route.
Waypoint Already Exists	A waypoint with the same name already exists.
Waypoint Memory Full	The unit has stored the maximum number of waypoints.

### **AIRSPACE MESSAGES**

Message	Comments	
Inside Airspace	Inside the boundaries of the airspace.	
Airspace Near and Ahead	Within two nautical miles of an airspace and your current course takes you inside the airspace.	
Airspace Ahead, Within 10 Minutes	The projected course takes you inside an airspace within the next 10 minutes or less.	
Airspace Near, Within 2 nm	Within two nautical miles of an airspace but not projected to enter it.	

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## **DATA FIELD & NUMERIC DATA OPTIONS**

DATA FIELD & NOMERIC DATA OFTIONS		
Data Field/Numeric Data	Definition	
Accuracy	The current accuracy of the GPS determined location.	
Altitude	The current altitude in geometric height above Mean Sea Level (MSL).	
Bearing	The compass direction from the present position to a destination waypoint.	
Course to Steer	The recommended direction to steer in order to reduce cross-track error and return to the course line.	riight Flanning
Crosstrack Error	The distance the aircraft is off a desired course in either direction, left or right.	lanning
Desired Track	The desired course between the active "from" and "to" waypoints.	паzа
Distance (Destination)	The distance to the destination waypoint in the Active Flight Plan	nazaru Avoidance
Distance (Next)	The distance to the next waypoint in the Active Flight Plan.	lice
En Route Safe Altitude	The recommended minimum altitude within ten miles left or right of the desired course on a active flight plan or direct-to.	Oundes
Flight Timer	Total time in-flight (HH:MM).	]
Fuel Timer	Elapsed time since the Fuel Tank Reminder Alarm was last issued (HH:MM).	dv
Glide Ratio	The estimated distance an aircraft will move forward for any given amount of lost altitude.	Abbendix
Ground Speed	The velocity that the aircraft is traveling relative to a ground position.	
Ground Track	The direction of aircraft movement relative to a ground position.	Index



#### DATA FIELD & NUMERIC DATA OPTIONS (CONT.)

Data Field/Numeric Data	Definition
Minimum Safe Altitude	Uses Grid MORAs to determine a safe altitude within ten miles of the aircraft's present position.
Next Waypoint	The next waypoint in the flight plan or direct-to route.
Sunrise	The time at which the sun rises on this day (current location).
Sunset	The time at which the sun sets on this day (current location).
Estimated Time En Route (Destination)	The estimated time it takes to reach the destination waypoint from the present position, based upon current ground speed.
Estimated Time En Route (Next)	The estimated time it takes to reach the next waypoint form the present position, based upon current ground speed.
Estimated Time of Arrival (Destination)	The estimated time at which the aircraft should reach the destination waypoint, based upon current speed and track.
Estimated Time of Arrival (Next)	The estimated time at which the aircraft should reach the next waypoint, based upon current speed and track.
Estimated Time to VNAV	The estimated time it takes to reach the VNAV waypoint form the present position, based upon current ground speed.
Time of Day (Local)	The current time and date in 12-hour or 24-hour format.
Time (UTC)	The current time and date in Universal (UTC) time.
Vertical Speed	The rate of climb or descent (GPS-derived).
Vertical Speed Required	The vertical speed necessary to decend/climb from a current position and altitude to the previously selected VNAV position and altitude, based upon current groundspeed.

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#### DATA FIELD & NUMERIC DATA OPTIONS (CONT.)

Data Field/Numeric Data	Definition
Weather (Altimeter) (aera 796)	The altimeter setting at the nearest METAR reporting station.
Weather (Dew Point) (aera 796)	The dew point at the nearest weather reporting station.
Weather (Rel. Humidity) (aera 796)	The relative humidity at the nearest weather reporting station.
Weather (Temperature) (aera 796)	The temperature at the nearest weather reporting station.
Weather (Wind) (aera 796)	The wind speed and direction at the nearest weather reporting station.

### **AURAL ALERTS**

### TRAFFIC

- "Traffic"—TIS traffic alert received.
- "Traffic Not Available"—TIS service is not available or out of range.

## **TERRAIN**

"Five Hundred"—when the aircraft descends through 500 feet above the destination airport.

## LOSS OF GPS POSITION

When the aera 795/796 loses the GPS signal for any reason, the following will occur:

- A blinking red question mark will appear over the airplane icon on the map.
- The 'Lost Satellite Reception' message will display.
- Any GPS dependent data fields will not be available.



## HAZARD DISPLAY WITH LOSS OF GPS POSITION

If the Terrain function does not have at least a 3D fix (i.e. altitude unknown), a Red X will be displayed.

## LICENSE AGREEMENT AND WARRANTY

## CONTACT GARMIN

Contact Garmin if you have any questions while using your aera 795/796. In the USA, contact Garmin Product Support by phone: (913) 397-8200 or (866) 739-5687, Monday–Friday, 7 AM–7 PM Central Time; or go to https:// fly.garmin.com/fly-garmin/support.

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Appendix



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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet that is on a different circuit from the GPS unit.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.



## **INDUSTRY CANADA COMPLIANCE**

Category I radio communication devices comply with Industry Canada Standard RSS-210.

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