



æra™

models: 795 and 796



Quick Reference Guide

OVERVIEW

GPS NAVIGATION

FLIGHT PLANNING

HAZARD AVOIDANCE

UTILITIES

APPENDIX

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This manual reflects the operation of System Software version 3.10 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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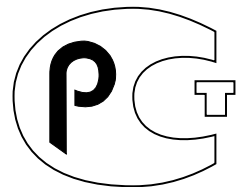
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MP02

Part Number	Change Summary
190-01194-00	Initial release

Rev	Date	Description
A	August, 2011	Production Release
B	August, 2011	Added Russia GOST mark
C	August, 2012	Added GDL 39 support

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SECTION 1 OVERVIEW

1.1 UNIT OVERVIEW

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 (Left Side)



Power Button

SD Card Slot

Unit Overview (Right Side)

1.2 GETTING STARTED

BATTERY INSTALLATION

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.



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.

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.

GPS RECEIVER STATUS

The  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:

- 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**.

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

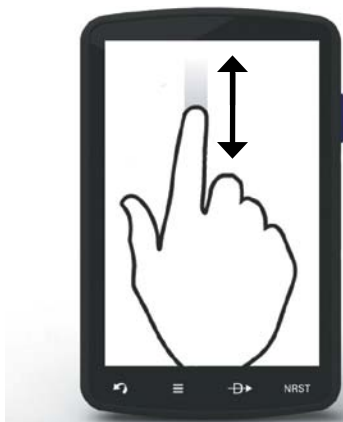
SCROLLING AND PANNING

Scrolling and panning on the touchscreen:

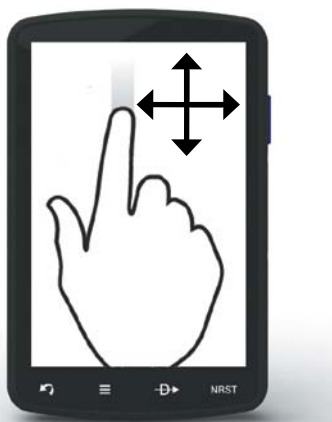
Drag up or down to scroll menus, documents, etc.

Or:

Drag in any direction to pan maps or charts.



Scrolling

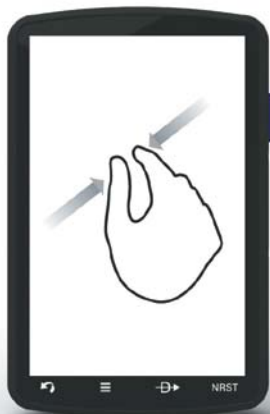


Panning

ZOOMING

Zooming in and out on the touchscreen map displays:

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



Zoom Out



Zoom In

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:



Dedicated Icons

	Back	Returns to previous screen. Cancels the map pointer.
	Main Menu (Shortcut)	Touch and hold to display the Main Menu.
	Menu	Displays the context sensitive option menu.
	Direct-to	Displays the Direct-to function.
	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:

- 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 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**.

MAIN MENU

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

MAIN MENU ICONS












Touch the following icons to display the associated function:

	Map	Displays the Map View.
	Terrain	Displays the Terrain View.
	3D Vision	Displays 3D Vision.
	WPT Info	Displays the Waypoint Information.
	FPL List	Displays the Flight Plan List.
	Active FPL	Displays the Active Flight Plan.
	Traffic	Displays the dedicated Traffic Page.
	Numbers	Displays flight data.
	Doc Viewer	Displays the document viewer.
	Charts	Displays the VFR or IFR charts.
	Weather	Displays second-level Weather Icons (XM aera 796 only, all models with GDL 39.)
	SiriusXM	Displays SiriusXM Radio (aera 796).
	Tools	Displays second-level Tools Icons.

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.
	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).
	FSS	Displays nearest Flight Service Stations (FSS).
	Airspace	Displays nearest airspace.

WEATHER ICONS (aera 796 XM) (ALL MODELS WITH GDL 39)

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) (XM or GDL 39).
	Satellite	Displays Satellite Mosaic cloud cover (XM only).
	Echo Tops	Displays Echo Tops (XM only).
	Winds	Displays Winds Aloft. (XM or GDL 39).
	Lightning	Displays Lightning (XM only).
	Storm Cells	Displays Storm Cells (XM only).



METAR Displays METARs. (XM or GDL 39).



AIRMET Displays AIRMETs. (XM or GDL 39).



SIGMET Displays SIGMETs. (XM or GDL 39).



TFR Displays TFRs (XM or GDL 39).



PIREP Displays PIREPs. (XM or GDL 39).



Freeze Lvl Displays Freezing Levels (XM only)



Turb Fcst Displays the Turbulence Forecast (XM only)



Icing Fcst Displays the Icing Forecast (XM only)



WX Frst Displays Forecast Information (current, 12, 24, 36, & 48).



Pressure Displays Surface Pressure (XM only)



Temps Displays Temperatures Aloft (GDL 39 only).

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.



Flight Log Displays Flight Logs.



Track Log Displays Track Logs.



VNAV Displays Vertical Navigation.



Profile Displays Aircraft Profiles.



E6B Calc Displays the E6B Calculator.



Data Link Displays Data Link Information.



Weight/Bal Displays the Weight & Balance.

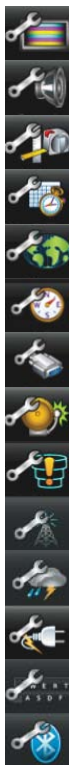


- Database** Displays database and software version information.
- Position** Displays the aircraft's Present Position.
- Checklists** Displays the checklists if available.
- Scratchpad** Displays the scratchpad.
- GPS Status** Displays GPS status information.

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:




- Display** Displays backlight intensity/timeout and color mode settings.
- Sound** Displays sound settings.
- Units** Displays unit settings.
- Date/Time** Displays date & time settings.
- Map** Displays Navigation Map settings.
- Position** Displays position settings.
- Interface** Displays interface settings.
- Alarms** Displays alarm settings.
- SUA Alarms** Displays Special Use Airspace alarm settings.
- Data Link** Displays Data Link Information.
- Weather** Displays Weather source settings.
- Power** Displays Power Loss Warning settings.
- Keyboard** Displays keyboard layout settings.
- Bluetooth®** Displays Bluetooth connection settings

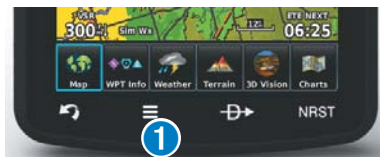
1.4 MENUS AND DATA ENTRY

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
- 2 Touch the desired menu option.



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/
Alpha/Symbol**

Displays the numeric, alpha, or symbol keypad.



Cancel

Cancels a value that has been edited.

Entering alphanumeric data:

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


- 3 Touch **OK**.



Entering predetermined data options:

- 1 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).

- 2 If using the vertical list, touch the desired data option from the list.





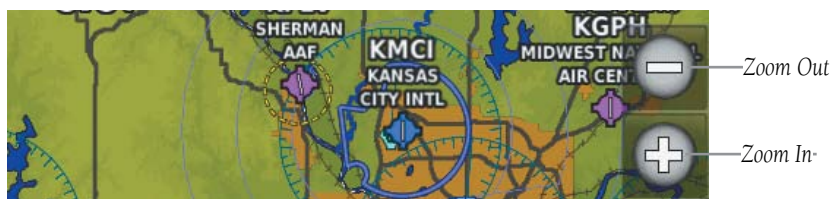
1.5 USING MAP DISPLAYS

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.

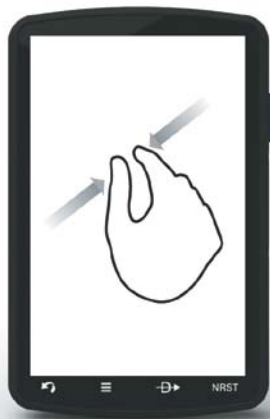
Changing the map range:

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).



Zoom Out



Zoom In

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

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'.

MAP PANNING

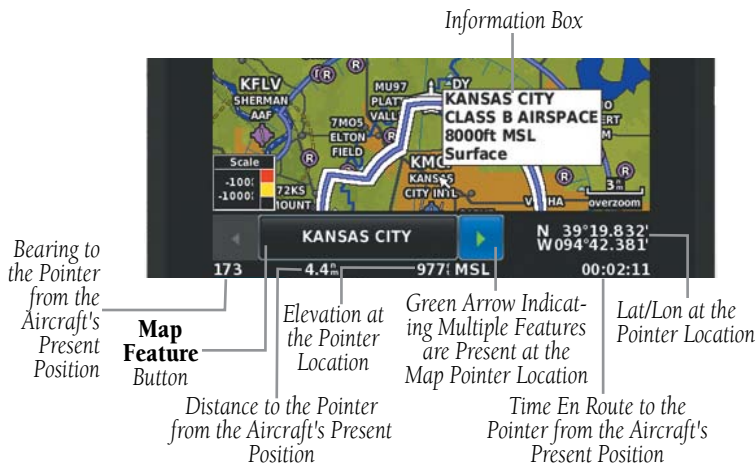
Map panning allows the pilot to:

- 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 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.



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:

- 1 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.
- 2 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.
- 4 If desired touch the **Direct-to**  Icon to navigate to the map feature.



MAP OVERLAYS

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



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.

BLUETOOTH®

Connecting/Pairing GDL 39 via Bluetooth:

- 1) From the **Main Menu**, touch **Tools > Setup > Bluetooth**.
- 2) Ensure the Bluetooth on the GDL 39 is in Pairing Mode. Press and hold the power button on the GDL 39 to enter pairing mode (the blue LED will flash on the GDL 39 when in pairing mode).
- 3) Touch Bluetooth **On/Off** to turn on the Bluetooth.
- 4) Under the GDL Device heading, touch **Devices**.
- 5) Touch **Add Device** to view available Bluetooth devices.
- 6) Touch the GDL Device from the list of available Bluetooth device(s) to pair and connect. Once paired to reconnect, under GDL Device touch **Devices > GDL39 #XXXXXXXXXX**.
- 7) Touch **Drop** to disconnect.

SECTION 2 GPS NAVIGATION

2.1 FLIGHT DATA

DATA FIELDS

Changing the information shown in the data fields:

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

Restoring default numeric flight data:

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

2.2 HSI/PANEL

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**').

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** Icon.
- 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 value

Or:

Touch the Radial Button to enter the desired radial using the keypad and touch the **OK** Icon.

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).

2.3 VERTICAL NAVIGATION (VNAV)

USING THE VNAV FEATURE

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.

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:

- 1) From the **Main Menu**, touch **WPT Info** > **Info** Tab (if necessary).
 - 2) Touch the Waypoint Identifier Button (top of page).
 - 3) Enter the desired waypoint:
 - a) Touch the   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  ).
 - 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   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:

- 1) From the **Main Menu**, touch **WPT Info** > **Info** Tab.
- 2) Touch the Waypoint Identifier Button.
- 3) Enter the desired waypoint:
 - a) Touch the   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  ).
 - 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  buttons 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**.
- 2) Touch the desired Nearest Icon (**Airport, Airport WX, VOR, NDB, Intersection, VRP, User WPT, City, ARTCC, FSS, or Airspace**).
- 3) Touch the desired nearest option from the list twice for additional information.

Or:

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

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


Or:



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

TEXTUAL WEATHER AND NOTAM INFORMATION



Textual weather information can be viewed several different ways. NOTAMs only available with a GDL 39.

Viewing textual airport weather information:

- 1) From the **Main Menu**, touch the **WPT Info** Icon.
- 2) Enter the desired waypoint:
 - a) Touch the  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  .
- 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   buttons to cycle through the waypoint categories ('**Flight Plan Waypoints**', '**Nearest Airports**', or '**Recent Waypoints**').

- b) Touch the desired waypoint from the list.

- 3) Touch the **WX or WX/NOTAM** Tab.

- 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**.

- 2) Touch the desired METAR flag.

- 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.

- 4) If desired touch **Menu > Show Raw Text/Show Decoded Text** to switch 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).

- 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.

- 4) If desired touch **Menu > Show Raw Text/Show Decoded Text** to switch from raw data to decoded data.




USER WAYPOINTS

Creating user waypoints:


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

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

Selecting a nearby airport as a direct-to destination:

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

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

- 1) With the Navigation Map, Terrain Map, Weather Map, 3D Vision Map, or 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.
- 2) Touch **Direct** ➤.
- 3) Touch **Activate**.

Canceling a direct-to:

Touch **Direct To** ➤ > **Stop Nav**.

Or:

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

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:


- 1) From the **Main Menu**, touch the **Active FPL** Icon.
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.
- 2) Touch the desired Data Field Button at the top of the Flight Plan.
- 3) Touch the desired Data Field. The currently selected Data Field is outlined blue.
- 4) Touch the **OK** Icon.
- 5) If desired, repeat Steps 2-4 for the remaining Data Field.

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:

- 1) From the **Main Menu**, touch the **Active FPL** Icon.
- 2) Touch the '**Touch to add Waypoint**' Button.
- 3) Enter the desired waypoint:
 - a) Touch the   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 .
- 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  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 2-3 to enter each additional waypoint.

Creating a stored flight plan:

- 1) From the **Main Menu**, touch **FPL List** > **Menu** > **New Flight Plan**.
- 2) Touch the '**Touch to add Waypoint**' Button.
- 3) Enter the desired waypoint:


- a) Touch the  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 .

- 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  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 2-3 to enter each additional waypoint.

ADDING FLIGHT PLAN WAYPOINTS

Adding a waypoint to an active or stored flight plan:

- 1) With an active or saved flight plan displayed, touch the desired point of insertion. The new waypoint will be added in front of the selected waypoint. An option menu will appear.
- 2) Touch the '**Insert Waypoint**' menu option.
- 3) Enter the desired waypoint:
 - a) Touch the   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  .
 - 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   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 2-3 to enter each additional waypoint.

GRAPHICAL FLIGHT PLANNING

Creating a Flight Plan Graphically:

- 1) From the **Main Menu**, touch the **Active FPL** icon.
- Or:** For a Stored Flight Plan. From the **Main Menu**, touch **FPL List > Menu > New Flight Plan**.
- 2) Touch the '**Touch to add Waypoint**' Button.
 - 3) Enter the departure point by:


a) Touching the  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 ).

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) Touching the  buttons to cycle through the waypoint categories ('**Flight Plan Waypoints**', '**Nearest Airports**', or '**Recent Waypoints**').

b) Touch the desired waypoint from the list. Once a departure point is entered add additional waypoints Graphically.

4) Touch **Menu > Edit on Map**.

5) Touch anywhere on the map. Navigation features (NAVAIDS, Highways, user waypoints, airports, etc.) near the touched location will appear as buttons at the top center of the Map Page. Select the desired navigation feature button to append to the flight plan. If there are no navigation features, touch '**Map Pointer**' to create a user waypoint. Repeat to add additional waypoints.

6) Touch '**Undo**' to undo the most recent action.

7) Touch '**Cancel**' to exit without saving or '**Save**' to save and exit Graphical Flight Plan Editing Mode.

Editing a Flight Plan Graphically:

1) On the Map Page touch **Menu > Edit Flight Plan**.

Or: To graphically edit a stored flight plan, from the **Main Menu**, touch **FPL List**. Select the flight plan to edit from the list of stored flight plans. Touch **Menu > Edit on Map**.

- 2) Touch an existing flight plan leg to edit. When an existing flight plan leg is selected, it will be highlighted in light blue. Touch a new location on the map to split the flight plan leg. Navigation features (NAVAIDS, Highways, user waypoints, airports, etc.) near the touched location will appear as buttons at the top center of the Map Page. Select the desired navigation feature button to append to the flight plan. If there are no navigation features, touch '**Map Pointer**' to create a user waypoint. Repeat to split additional flight plan legs.



Graphical Flight Planning

- 3) To add additional waypoints to the flight plan, touch a new location on the map. Select the desired navigation feature button to append to the flight plan. If there are no navigation features, touch '**Map Pointer**' to create a user waypoint. Repeat to add additional waypoints.
- 4) To remove a waypoint from the flight plan, touch the waypoint on the map and select '**Remove**'.
- 5) Touch '**Undo**' to undo the most recent action.
- 6) Touch '**Cancel**' to exit without saving or '**Save**' to save and exit Graphical Flight Plan Editing Mode.

3.3 FLIGHT PLAN STORAGE

Viewing information about a stored flight plan:

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

Storing an active flight plan:

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

3.4 FLIGHT PLAN ACTIVATION

Activating a stored flight plan:

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

Activating a Flight Plan Leg:

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

3.5 FLIGHT PLAN DELETION

Deleting a stored flight plan:

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

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**.

3.6 APPROACHES



WARNING: Do not rely solely upon the aera 795/796 for flight into instrument meteorological conditions (IMC). 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.
- 2) With the flight plan displayed, touch the **Menu** Icon.
- 3) Touch the '**Select Approach**' menu option (only available if the destination airport has a published approach).
- 4) Touch the approach name to display a vertical list of all available approaches, touch the desired approach from the list.


5) Touch **Load Approach**, to add the final approach fix and missed approach point to the flight plan.

Or: Touch **Activate Approach**, to activate and immediately begin navigation to the final approach fix.

Or: Touch **Activate Vectors-to-Final**, the aera 795/796 creates an extension of the final course, beyond the final approach waypoint in the database (final approach fix [FAF]). A Vector to Final symbol appears beside the first approach waypoint in the Active Flight Plan. The aera 795/796 provides no guidance to the inbound course. The course deviation needle on the graphic HSI remains off-center until established on the final approach course. The map shows an extension of the final approach course using a bold magenta line.

Selecting an approach using the Direct To function:

1) Touch **Direct To > Menu** .

2) Touch the '**Select Approach**' menu option. Touch the waypoint name. Touch the   buttons to cycle through the waypoint categories ('**Flight Plan Waypoints**', '**Nearest Airports**', or '**Recent Waypoints**').

3) Touch the desired waypoint from the list.

4) Touch the approach name to display a vertical list of all available approaches, touch the desired approach from the list.

5) Touch **Load Approach**, to add the final approach fix and missed approach point to the flight plan.

Or: Touch **Activate Approach**, to activate and immediately begin navigation to the final approach fix.

Or: Touch **Activate Vectors-to-Final**, the aera 795/796 creates an extension of the final course, beyond the final approach waypoint in the database (final approach fix [FAF]). A Vector to Final symbol appears beside the first approach waypoint in the Active Flight Plan. The aera 795/796 provides no guidance to the inbound course. The course deviation needle on the graphic HSI remains off-center until established on the final approach course. The map shows an extension of the final approach course using a bold magenta line.

Removing or Activating 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.
 - 2) Press the **Menu** Icon.
 - 3) Touch the '**Remove Approach**' menu option (only available if an approach is loaded).
- Or:** Touch an approach waypoint. Touch **Remove Approach** to remove, **Activate Approach** to activate, or **Activate Vectors-to-Final** to activate vectors-to-final.



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SECTION 4 HAZARD AVOIDANCE

4.1 WEATHER

WEATHER SOURCE (aera 796 ONLY)

Switching Weather Sources:



- 1) From the **Main Menu** touch the **Map** Icon.
- 2) Touch the **Weather > Menu > Set Up Weather**.
- 3) Use the   buttons to cycle through the available weather sources (AUTO, XM, or GDL FIS-B).

SIRIUSXM WEATHER (aera 796 ONLY)

Viewing SiriusXM Weather products on the Navigation Map:

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

Viewing SiriusXM Weather products on the Weather Map:

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

DATA LINK WEATHER (FIS-B) (795 AND 796)

Viewing FIS-B Weather product Status:

- 1) From the **Main Menu** touch the **Tools** Icon.
- 2) Touch **Data Link**.

Or:

- 1) From the **Main Menu** touch the **Weather** Icon.
- 2) Touch **Menu** > **Information**.

Viewing Ground Station Status:

- 1) From the **Main Menu** touch the **Tools** Icon.
- 2) Touch **Data Link**.


Or:

- 1) From the **Main Menu** touch the **Weather** Icon.
- 2) Touch **Menu** > **Information**.

Viewing FIS-B Weather products on the Navigation Map:

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

Viewing FIS-B Weather products on the Weather Map:

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

Animating FIS-B weather:


- 1) From the **Main Menu**, touch the **Map** Icon (weather must be enabled).

Or:

- a) From the **Main Menu**, touch the **Weather** Icon.
 - b) Touch the **NEXRAD** Icon.
- 2) Touch the **Menu** Icon.
 - 3) Touch the '**Animate Weather**' menu option.

4.2 TERRAIN


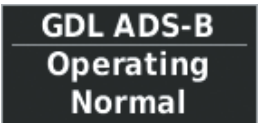
Enabling/Disabling Terrain Shading on the Navigation Map:

- 1) From the **Main Menu** touch the **Map** Icon.
 - 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  buttons until the '**Map**' Category is displayed.
 - c) Touch the **Terrain Shading** Field.
 - d) Touch the **On/Off** Button.

4.3 TRAFFIC

TRAFFIC SOURCE

The aera 795/796 is compatible with two different traffic sources; TIS-A traffic via a Garmin Mode S Transponder (GTX 330 or GTX 23), or ADS-B/TIS-B traffic via a GDL 39. If more than one traffic source is configured, the current traffic source is annunciated in the upper left hand corner of the Traffic Page.

Traffic Source	Description
	Displaying TIS-A traffic from a Mode S transponder.
	Displaying ADS-B/TIS-B traffic from a GDL 39

Traffic Source Annunciation

TRAFFIC INFORMATION SERVICE (TIS-A)



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



Adjusting TIS-A audio:

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

Or:

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

Adjusting TIS-A settings on the navigation map:

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

Displaying TIS-A information using the map pointer:

With traffic displayed on the Navigation Map, touch the desired TIS-A 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.

DATA LINK TRAFFIC (GDL 39)

Viewing GDL 39 Traffic and Weather Status:









- 1) From the **Main Menu** touch the **Tools** Icon.
 - 2) From the **Tools** menu touch **Data Link**.
- Or**
- 1) From the **Main Menu** touch the **Weather** Icon.
 - 2) Touch **Menu** > **Information**.

Or

- 1) From the **Main Menu** touch the **Traffic** Icon.
- 2) Touch **Menu > Info**.

SYSTEM STATUS

The traffic system status is announced in the upper right corner of the Map Page, as well as the lower left corner of the dedicated Traffic Page.

System Status	Traffic Icon
Operating TIS-A	
No Traffic Data Available from TIS-A	
Full traffic services available for an ADS-B participating aircraft (ground linked TIS-B, FIS-B and ADS-R, and Air-to-Air ADS-B). If you are using the GDL 39 on a non-participating aircraft you may still see this when you are within the service area of any participating aircraft. As a non-participating aircraft you are only receiving TIS-B traffic information for traffic within 15 nm and 3,500' of a participating aircraft.	 
Limited traffic services available (may be limited to Air-to-Air ADS-B)	 
No Traffic Data Available	 

Traffic Modes



Configuring the GDL 39 for a Pressurized or Non-Pressurized Aircraft:

- 1) From the **Main Menu** touch the **Tools** Icon.
- 2) From the **Tools** menu touch **Data Link**.
- 3) Touch **Menu > Set Up Data Link**.
- 4) Touch **Aircraft Type** (Pressurized or Not Pressurized)

Or:

- 1) From the **Main Menu** touch the **Traffic** Icon.
- 2) Touch **Menu > Info > Menu > Set Up Data Link**.
- 3) Touch **Aircraft Type** (Pressurized or Not Pressurized)

Enabling/disabling traffic data on the Map Page:

- 1) From the **Main Menu** touch the **Map** Icon.
- 2) Touch the **Menu** Icon.
- 3) Touch the '**Set Up Map**' menu option.
- 4) Touch the  buttons to select the **Map** Category.
- 5) For Traffic Data, touch the  buttons to select the desired settings ('Off', 'Auto', or range settings).

Displaying Traffic information using the map pointer:

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

Enabling/Disabling Flight ID Display:

On the Traffic Page, select **Menu > Disable/Enable Target Identifiers**.

Changing the altitude range:

- 1) On the Traffic Page, select the **Menu > Altitude Filter**.
- 2) Select one of the following:
 - **Unrestricted:** All traffic is displayed.
 - **Normal:** Displays non-threat and proximity traffic from 2700 feet above the aircraft to 2700 feet below the aircraft. Typically used during enroute phase of flight.
 - **Above:** Displays non-threat and proximity traffic from 9000 feet above the aircraft to 2700 feet below the aircraft. Typically used during climb phase of flight.
 - **Below:** Displays non-threat and proximity traffic from 2700 feet above the aircraft to 9000 feet below the aircraft. Typically used during descent phase of flight.

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SECTION 5 UTILITIES

5.1 FLIGHT LOG

Viewing details for a flight:


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

Deleting flight records:


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

5.2 TRACK LOG

Showing/hiding the track log on the Navigation Map:

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

Changing track log settings:



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

Clearing the track log:

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

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

Saving a track log:

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

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:

- 1) From the **Main Menu**, touch **Tools** > **E6B Calc**, enter the altitude shown on the altimeter into the 'Indicated Altitude' datafield.
- 2) Repeat for 'Calibrated Airspeed', 'Baro Pressure', and 'Total Air 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.

Calculating winds aloft:

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

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

Selecting 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 (if only two profiles are available touch the Aircraft Name Button to toggle between the two).
- 3) Touch the desired profile from the list.

Renaming 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.
- 3) Touch the desired profile from the list.
- 4) Touch **Menu** > **Rename**
- 5) Enter the new Aircraft Name using the keypad, and touch **OK**.

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.
- 3) Touch the desired profile from the list.
- 4) Touch **Menu** > **Delete**
- 5) Touch **Yes**.

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:

- 1) From the **Main Menu**, touch **Tools** > **Weight/Bal**
- 2) Touch the datafields to enter the desired weights and arms (or "stations"). 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.
- 3) To empty the aircraft, touch **Menu** > **Empty Aircraft**.

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.

DATA FIELD & NUMERIC DATA OPTIONS

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.
Crosstrack Error	The distance the aircraft is off a desired course in either direction, left or right.
Desired Track	The desired course between the active "from" and "to" waypoints.
Distance (Destination)	The distance to the destination waypoint in the Active Flight Plan
Distance (Next)	The distance to the next waypoint in the Active Flight Plan.
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.
Flight Timer	Total time in-flight (HH:MM).
Fuel Timer	Elapsed time since the Fuel Tank Reminder Alarm was last issued (HH:MM).
Glide Ratio	The estimated distance an aircraft will move forward for any given amount of lost altitude.
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.

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 from 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 from 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 descend/climb from a current position and altitude to the previously selected VNAV position and altitude, based upon current groundspeed.

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>.

In Europe, contact Garmin (Europe) Ltd. at +44 (0) 870.8501241 (outside the UK) or 0808 2380000 (within the UK).

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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.

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

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