Quick Reference Guide

models: 795 and 796
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This manual reflects the operation of System Software version 5.60 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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SECTION 1  OVERVIEW

1.1  UNIT OVERVIEW

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.
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.

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.
ZOOMING

Zooming in and out on the touchscreen map displays:
Pinch fingers together (zoom out), or pull fingers apart (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.
Overview

**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.
Overview

- **Active FPL** Displays the Active Flight Plan.
- **Traffic** Displays the dedicated Traffic Page.
- **Numbers** Displays flight data (May be moved to Tools Menu).
- **Doc Viewer** Displays the document viewer.
- **Charts** Displays the VFR or IFR charts.
- **Weather** Displays second-level Weather Icons.
- **SiriusXM** Displays SiriusXM Radio (aera 796).
- **Tools** Displays second-level Tools Icons.

**NEAREST ICONS**

Touch the **NEAREST** 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

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

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

- **NEXRAD**: Displays NEXRAD (NEXt-generation RADar).
- **Satellite**: Displays visible clouds.
- **Cloud Fcst**: Displays cloud top height contours.
- **Echo Tops**: Displays Echo Tops.
- **Winds**: Displays Winds Aloft.
- **Temps**: Displays Temperatures Aloft.
- **Lightning**: Displays Lightning strikes.
- **Storm Cells**: Displays Storm Cells.
- **METAR**: Displays METARs.
- **AIRMET**: Displays AIRMETs.
- **SIGMET**: Displays SIGMETs.
- **TFR**: Displays TFRs.
- **PIREP**: Displays PIREPs.
- **Freeze Lvl**: Displays Freezing Levels.
- **Turb Fcst**: Displays the Turbulence Forecast.
- **Icing Fcst**: Displays the Icing Forecast.
- **WX Fcst**: Displays Forecast Information (current, 12, 24, 36, & 48).
- **Pressure**: Displays Surface 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.
- **Flight Log** Displays Flight Logs.
- **Track Log** Displays Track Logs.
- **VNAV** Displays Vertical Navigation parameters.
- **Profile** Displays Aircraft Profiles.
- **E6B** Displays the E6B Calculator.
- **Weight/Bal** Displays the Weight & Balance.
- **Data Link** Displays Data Link Information.
- **Database** Displays database and software version information.
- **Scratchpad** Displays the scratchpad.
- **Position** Displays the aircraft's Present Position.
- **Checklists** Displays the checklists (if available on the SD Card).
- **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.
- **Time** Displays 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.
- **Connext** Displays Flight Plan Transfer settings.
- **Weather** Displays Weather source settings.
- **Bluetooth®** Displays Bluetooth connection settings.
- **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
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.
Overview

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).
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.
Overview

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 or the cancel 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 Direct-to to navigate to the map feature.
MAP OVERLAYS

The 1 Weather, 2 Topography, and 3 Terrain map overlays can be displayed or removed. Weather and Terrain cannot be displayed simultaneously.

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.
Connecting/Pairing to a weather/traffic device via Bluetooth:

1) Ensure the weather/traffic device is turned ON. From the **Main Menu**, touch **Tools > Setup > Bluetooth > On**.

2) Touch **Not Connected** next to the device name. A Bluetooth Passkey window will open.

3) Touch **OK**. The weather/traffic device is now connected.

The Bluetooth Setup Menu provides several options for connecting to Bluetooth devices. **Manage Paired Devices** can enable Automatic Reconnect and remove connections on a per-device basis. **Rename** is used to change the name that the aera shows other devices while pairing. **Restore Default** will disable Bluetooth and remove all Bluetooth connections.

**Managing Connected Bluetooth Devices:**

From the **Main Menu**, touch **Tools > Setup > Bluetooth > Menu > Manage Devices**.
SECTION 2 GPS NAVIGATION

2.1 FLIGHT DATA

DATA FIELDS

Changing the information shown in the data fields:
1) From the Main Menu, touch Map or the Map View at the bottom of the screen.
2) Touch Menu.
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 OK.

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 from the Map option menu to manually set your course to the destination.

Manually setting a course to the destination waypoint:
1) From the Main Menu, touch Map or Active FPL.
2) Touch Menu.
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 OK.

Returning to automatic sequencing of route waypoints:
1) From the Main Menu, touch Map or Active FPL.
2) Touch Menu.
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 Main Menu.

Enabling/disabling the VNAV indicator:
1) From the Main Menu, touch Map.
2) Touch Menu.
3) Touch the 'Enable VNAV Indicator' or 'Disable VNAV Indicator' menu option (VNAV Indicator only displayed when Panel is displayed).

Capturing/cancelling VNAV profile:
1) Enter a valid VNAV profile (see 'Configuring a VNAV Profile' above) and begin navigation.
2) From the Main Menu, touch Map.
3) Touch Menu.
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 zooms in 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 for the weather tab are only available with a compatible ADS-B/SiriusXM device.

**Viewing textual airport weather information:**

1) From the **Main Menu**, touch **WPT Info**.

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 **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 **Map**.
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 **OK**.

2.5 **DIRECT-TO NAVIGATION**

Entering a waypoint identifier, facility name, or city as a direct-to destination:
1) Touch **Direct To ➥**.
2) Touch **Menu > Resume Navigation** (if available).

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

Cancelling a direct-to:

Touch Direct ➤ > 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 Active FPL.
   Or:
   a) From the Main Menu, touch FPL List.
   b) Touch the desired Saved Flight Plan from the list. Press it again to review, or press Menu for other available menu options.

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 OK.

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 Active FPL.

2) Touch 'Touch to add Waypoint'.

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).
Flight Planning

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

Inserting a waypoint into 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. Press **Menu**.

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 **buttons**).
   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) For Active FPL, from the Main Menu, touch Active FPL

Or: For a stored flight plan, from the Main Menu, touch FPL List > Menu > New Flight Plan.

2) Touch 'Touch to add Waypoint'.

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 addition 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.

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.
Flight Planning

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, then touch it, again, to review.

Storing an active flight plan:
1) With the Active Flight Plan displayed, touch Menu.
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. Touch Menu.
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 Active FPL.
2) While navigating an active flight plan, touch the endpoint of the leg to be activated.
3) Touch Direct-to twice. The "Activate Leg XXXXX-XXXXX?" window is displayed
4) Touch Yes to activate. To cancel, touch No or Back.
3.5 FLIGHT PLAN DELETION

Deleting a stored flight plan:
While reviewing the desired Stored Flight Plan, touch Menu > Delete Flight Plan > Yes.

Or:
With the Flight Plan List displayed, touch the desired flight plan to delete, touch Menu > 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 Active FPL,

Or:
   a) From the Main Menu, touch FPL List.
   b) Touch the desired Saved Flight Plan from the list. Press it again to review.

2) With the flight plan displayed, touch Menu.

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.

Or: For Saved FPL, touch **Select Approach** to add the final approach fix and missed approach point to the saved flight plan.

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

1) With an active airport that contains published approach data selected, touch **Direct To > Menu**.

2) Touch the ‘**Select Approach**’ menu option.

3) Touch the approach name to display a vertical list of all available approaches; select the desired approach from the list.

4) 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) From the list, touch the Saved Flight Plan with an approach loaded. Press it again to review.

2) Press Menu. Touch 'Remove Approach' menu option (only available if an approach is loaded).

   Or:

3) Touch an approach waypoint.
   a) Press Menu; select 'Remove Approach'.

   Or:
   b) Press approach waypoint again to review. Touch Remove Approach to remove, Activate Approach to activate (Active FPL only), or Activate Vectors-to-Final to activate vectors-to-final (Active FPL only).
SECTION 4 HAZARD AVOIDANCE

4.1 WEATHER

COMPATIBLE DEVICES

<table>
<thead>
<tr>
<th>Compatible SiriusXM Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>GXM 40/42</td>
</tr>
<tr>
<td>GDL 51/51R</td>
</tr>
<tr>
<td>GDL 52/52R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compatible GDL FIS-B Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDL 39/39R</td>
</tr>
<tr>
<td>GDL 39-3D</td>
</tr>
<tr>
<td>GTX 345/345R/45R</td>
</tr>
<tr>
<td>GNX 375</td>
</tr>
<tr>
<td>GDL 50/50R</td>
</tr>
<tr>
<td>GDL 52/52R</td>
</tr>
</tbody>
</table>

WEATHER SOURCE

Switching Weather Sources:

1) From the Main Menu touch Weather > Menu > Set Up Weather.
3) Use the buttons to cycle through the available weather sources (Auto, SiriusXM or GDL FIS-B).

SIRIUSXM WEATHER

Viewing Weather products on the Navigation Map:

1) From the Main Menu, touch Map.
2) Touch Menu.
3) Touch the 'Show/Hide' menu option.
4) Touch the Weather 'Show/Hide' Button.
Viewing Weather products on the Weather Map:
1) From the Main Menu touch Weather.
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 on the Weather Map to display abbreviated weather product information (if available).
5) With the desired weather product highlighted, touch the Map Feature Button to display additional, detailed information (if available).

DATA LINK WEATHER (FIS-B)

Viewing Weather Product Status:
1) From the Main Menu, touch Weather.
2) Touch Menu > Information.

Viewing Ground Station Status:
1) From the Main Menu touch Tools.
2) Touch Data Link.
3) Touch Menu > Ground Stations.
Or:
1) From the Main Menu touch Weather.
2) Touch Menu > Information.
3) Touch Menu > Data Link Info.
4) Touch Menu > Ground Stations.

Viewing FIS-B Weather products on the Navigation Map:
1) From the Main Menu touch Map.
2) Touch Menu.
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 weather:**
1) From the **Main Menu**, touch **Map** (weather must be enabled).
   Or:
   From the **Main Menu**, touch **Weather**; select **NEXRAD**.
2) Touch Menu.
3) Touch **'Animate Weather'** menu option.

### 4.2 TERRAIN

**Enabling/Disabling Terrain Shading on the Navigation Map:**
1) From the **Main Menu** touch **Map**.
2) Touch **Menu**.
   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 compatible Garmin Mode S Transponder, or ADS-B/TIS-B traffic via a compatible ADS-B device. If more than one traffic source is configured, the current traffic source is annunciated in the upper left hand corner of the Traffic Page.

<table>
<thead>
<tr>
<th>Traffic Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTX TIS-A Operating</td>
<td>Displaying TIS-A traffic from a Mode S transponder.</td>
</tr>
<tr>
<td>GDL ADS-B Operating</td>
<td>Displaying ADS-B/TIS-B traffic from a compatible device.</td>
</tr>
</tbody>
</table>

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 Traffic 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).
Customizing the traffic data on the Map Page:
1) From the Main Menu touch Map.
2) Touch Menu.
3) Touch the 'Show/Hide...' menu option.
4) Touch the Traffic 'Show/Hide' Button.
Or:
1) From the Main Menu, touch Map > Menu > Set Up Map.
2) Touch the buttons to select the Traffic Category.
3) Touch the Traffic Data On/Off Button to toggle the traffic data On/Off.
4) Touch the buttons to select the desired Traffic Symbol, Traffic Label, and Traffic Identifier 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 type and altitude separation are 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

<table>
<thead>
<tr>
<th>Compatible ADS-B Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDL 39/39R</td>
</tr>
<tr>
<td>GDL 39-3D</td>
</tr>
<tr>
<td>GTX 345/345R/45R</td>
</tr>
<tr>
<td>GNX 375</td>
</tr>
<tr>
<td>GDL 50/50R</td>
</tr>
<tr>
<td>GDL 52/52R</td>
</tr>
</tbody>
</table>
Hazard Avoidance

Viewing Traffic and Weather Status:

1) From the Main Menu touch Tools.
2) From the Tools menu touch Data Link.

Or:

1) From the Main Menu touch Weather.
2) Touch Menu > Information.
3) Touch Menu > Data Link Info.

Or:

1) From the Main Menu touch Traffic.
2) Touch Menu > Information.

SYSTEM STATUS

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

<table>
<thead>
<tr>
<th>System Status</th>
<th>Traffic Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating TIS-A</td>
<td><img src="image1" alt="Traffic Icon" /></td>
</tr>
<tr>
<td>No Traffic Data Available from TIS-A</td>
<td><img src="image2" alt="Traffic Icon" /></td>
</tr>
<tr>
<td>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 a compatible ADS-B device 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 the participating aircraft.</td>
<td><img src="image3" alt="Traffic Icon" /></td>
</tr>
</tbody>
</table>
System Status | Traffic Icon
---|---
Limited traffic services available (may be limited to Air-to-Air ADS-B) | ![Traffic Icon](image1)
No Traffic Data Available | ![Traffic Icon](image2)

## Traffic Modes

**Configuring a compatible ADS-B device for a Pressurized or Non-Pressurized Aircraft:**

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

**Or:**

1) From the **Main Menu** touch **Traffic**.
2) Touch **Menu > Information > Menu > Device Pressurization**.
3) Touch **Aircraft Type** (Not Pressurized or Pressurized).

**Enabling/disabling traffic data on the Map Page:**

1) From the **Main Menu** touch **Map**.
2) Touch **Menu**.
3) Touch the ‘**Show/Hide...**’ menu option.
4) Touch the **Traffic ‘Show/Hide’** Button.

**Or:**

1) From the **Main Menu** touch **Map**.
2) Touch **Menu**.
3) Touch the ‘**Set Up Map**’ menu option.
Hazard Avoidance

4) Touch the buttons to select the Map Category.
5) Touch Traffic Data On/Off Button to toggle the traffic data on/off.

Displaying Traffic information using the map pointer:

With traffic displayed on the Navigation Map, touch the desired Traffic symbol on the map. The traffic's aircraft ID, type, altitude, closure rate, ground track, and groundspeed are 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.
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.

#### Calculating true airspeed and density altitude:
1) From the Main Menu, touch Tools > E6B, 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, 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 > Menu > Restore Default > Yes.

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.
## MISCELLANEOUS MESSAGE ADVISORIES

<table>
<thead>
<tr>
<th>Message</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approaching target altitude</td>
<td>Aircraft is 500 feet above VNAV target altitude.</td>
</tr>
<tr>
<td>Approaching VNAV profile</td>
<td>The aircraft is within one minute of reaching the initial VNAV decent point.</td>
</tr>
<tr>
<td>Arriving at XXX</td>
<td>The aircraft is within the distance set for the arrival alarm.</td>
</tr>
<tr>
<td>Battery low</td>
<td>The battery needs to be recharged.</td>
</tr>
<tr>
<td>Cannot unlock databases</td>
<td>No applicable unlock code for one or more databases was found.</td>
</tr>
<tr>
<td>Can’t unlock maps</td>
<td>No applicable unlock code for one or more maps was found. All MapSource maps are not accessible.</td>
</tr>
<tr>
<td>Check XM Antenna</td>
<td>Internal problem with the GXM antenna. Contact Garmin Product Support.</td>
</tr>
<tr>
<td>Database Error</td>
<td>Internal problem with the system. Contact your dealer or Garmin Product Support to have the unit repaired.</td>
</tr>
<tr>
<td>Switch fuel tanks</td>
<td>A reminder for switching fuel tanks. The reminder message repeats at the specified interval after the beginning of each trip.</td>
</tr>
<tr>
<td>GPS antenna shorted to ground</td>
<td>The GPS antenna connection detects the GPS antenna RF connector is shorted to ground.</td>
</tr>
<tr>
<td>Lost Satellite Reception</td>
<td>The system is unable to receive satellite signals.</td>
</tr>
<tr>
<td>Memory full</td>
<td>System memory is full, no further data can be saved.</td>
</tr>
<tr>
<td>Proximity Alarm XXX</td>
<td>The aircraft is within the distance set for the proximity alarm.</td>
</tr>
<tr>
<td>Next DTK XXX</td>
<td>The aircraft is within the distance, or time, set for the next waypoint alarm.</td>
</tr>
<tr>
<td>Proximity alarm memory full</td>
<td>No additional proximity alarms can be saved.</td>
</tr>
<tr>
<td>Message</td>
<td>Comments</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Proximity waypoints overlap</td>
<td>The radius of two proximity waypoints overlap.</td>
</tr>
<tr>
<td>Route already exists</td>
<td>A route name that already exists has been entered.</td>
</tr>
<tr>
<td>Route memory full</td>
<td>No additional routes can be saved.</td>
</tr>
<tr>
<td>Route truncated</td>
<td>Uploaded route from another device has more than 300 waypoints.</td>
</tr>
<tr>
<td>Route waypoint memory full</td>
<td>No additional route waypoints can be saved.</td>
</tr>
<tr>
<td>Steep turn ahead</td>
<td>Approaching a turn that requires a bank angle in excess of 25 degrees to stay on course.</td>
</tr>
<tr>
<td>Track already exists</td>
<td>A saved track with the same name already exists.</td>
</tr>
<tr>
<td>Track log full</td>
<td>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.</td>
</tr>
<tr>
<td>VNAV cancelled</td>
<td>VNAV function has been cancelled due to a change in the active route.</td>
</tr>
<tr>
<td>Waypoint already exists</td>
<td>A waypoint with the same name already exists.</td>
</tr>
<tr>
<td>Waypoint memory full</td>
<td>The unit has stored the maximum number of waypoints.</td>
</tr>
</tbody>
</table>

**AIRSPACE MESSAGES**

<table>
<thead>
<tr>
<th>Message</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside XXX Airspace</td>
<td>Inside the boundaries of the airspace.</td>
</tr>
<tr>
<td>XXX Airspace Near and ahead</td>
<td>Within two nautical miles of the airspace and your current course takes you inside the airspace.</td>
</tr>
<tr>
<td>XXX Airspace Ahead, Within 10 minutes</td>
<td>The projected course takes you inside the airspace within the next 10 minutes or less.</td>
</tr>
<tr>
<td>XXX Airspace Near, Within 2nm</td>
<td>Within two nautical miles of the airspace but not projected to enter it.</td>
</tr>
</tbody>
</table>
## DATA FIELD & NUMERIC DATA OPTIONS

<table>
<thead>
<tr>
<th>Data Field/Numeric Data</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>The current accuracy of the GPS determined location.</td>
</tr>
<tr>
<td>Altitude</td>
<td>The current altitude in geometric height above Mean Sea Level (MSL).</td>
</tr>
<tr>
<td>Bearing</td>
<td>The compass direction from the present position to a destination waypoint.</td>
</tr>
<tr>
<td>Climb Gradient (Alt per nm)</td>
<td>Altitude gained per nautical mile traveled.</td>
</tr>
<tr>
<td>Climb Gradient (Percent)</td>
<td>Ration of altitude gained to distance traveled.</td>
</tr>
<tr>
<td>Course to Steer</td>
<td>The recommended direction to steer in order to reduce cross-track error and return to the course line.</td>
</tr>
<tr>
<td>Crosstrack Error</td>
<td>The distance the aircraft is off a desired course in either direction, left or right.</td>
</tr>
<tr>
<td>Desired Track</td>
<td>The desired course between the active “from” and “to” waypoints.</td>
</tr>
<tr>
<td>Distance (Destination)</td>
<td>The distance to the destination waypoint in the Active Flight Plan.</td>
</tr>
<tr>
<td>Distance (Next)</td>
<td>The distance to the next waypoint in the Active Flight Plan.</td>
</tr>
<tr>
<td>En Route Safe Altitude</td>
<td>The recommended minimum altitude within ten miles left or right of the desired course on an active flight plan or direct-to.</td>
</tr>
<tr>
<td>Flight Timer</td>
<td>Total time in-flight of active, or most recent, flight (HH:MM).</td>
</tr>
<tr>
<td>Fuel Timer</td>
<td>Elapsed time since the Fuel Tank Reminder Alarm was last issued (HH:MM).</td>
</tr>
<tr>
<td>Glide Ratio</td>
<td>The estimated distance an aircraft will move forward for any given amount of lost altitude.</td>
</tr>
<tr>
<td>Ground Speed</td>
<td>The velocity that the aircraft is traveling relative to a ground position.</td>
</tr>
</tbody>
</table>
### DATA FIELD & NUMERIC DATA OPTIONS (CONT.)

<table>
<thead>
<tr>
<th>Data Field/Numeric Data</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Track</td>
<td>The direction of aircraft movement relative to a ground position.</td>
</tr>
<tr>
<td>Minimum Safe Altitude</td>
<td>Uses Grid MORAs to determine a safe altitude within ten miles of the aircraft’s present position.</td>
</tr>
<tr>
<td>Next Waypoint</td>
<td>The next waypoint in the flight plan or direct-to route.</td>
</tr>
<tr>
<td>Sunrise</td>
<td>The time at which the sun rises on this day (current location).</td>
</tr>
<tr>
<td>Sunset</td>
<td>The time at which the sun sets on this day (current location).</td>
</tr>
<tr>
<td>Estimated Time En Route (Destination)</td>
<td>The estimated time to reach the destination waypoint from the present position, based upon current ground speed.</td>
</tr>
<tr>
<td>Estimated Time En Route (Next)</td>
<td>The estimated time to reach the next waypoint from the present position, based upon current ground speed.</td>
</tr>
<tr>
<td>Estimated Time of Arrival (Destination)</td>
<td>The estimated time at which the aircraft should reach the destination waypoint, based upon current speed and track.</td>
</tr>
<tr>
<td>Estimated Time of Arrival (Next)</td>
<td>The estimated time at which the aircraft should reach the next waypoint, based upon current speed and track.</td>
</tr>
<tr>
<td>Time to VNAV</td>
<td>The estimated time to reach the initial VNAV decent point from the present position, based upon current ground speed.</td>
</tr>
<tr>
<td>Time (Local)</td>
<td>The current time in the selected 12- or 24-hour format.</td>
</tr>
<tr>
<td>Time (UTC)</td>
<td>The current Universal (UTC) time.</td>
</tr>
<tr>
<td>Vertical Speed</td>
<td>The rate of climb or descent (GPS-derived).</td>
</tr>
</tbody>
</table>
DATA FIELD & NUMERIC DATA OPTIONS (CONT.)

<table>
<thead>
<tr>
<th>Data Field/Numeric Data</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Speed Required</td>
<td>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.</td>
</tr>
<tr>
<td>SiriusXM (Now Playing) (aera 796)</td>
<td>Currently selected XM channel.</td>
</tr>
<tr>
<td>Weather (Altimeter) (aera 796)</td>
<td>The altimeter setting at the nearest METAR reporting station.</td>
</tr>
<tr>
<td>Weather (Dew Point) (aera 796)</td>
<td>The dew point at the nearest weather reporting station.</td>
</tr>
<tr>
<td>Weather (Rel. Humidity) (aera 796)</td>
<td>The relative humidity at the nearest weather reporting station.</td>
</tr>
<tr>
<td>Weather (Temperature) (aera 796)</td>
<td>The temperature at the nearest weather reporting station.</td>
</tr>
<tr>
<td>Weather (Wind) (aera 796)</td>
<td>The wind speed and direction at the nearest weather reporting station.</td>
</tr>
</tbody>
</table>

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.
The following aural terrain alerts are issued when flight conditions meet parameters that are set within the software algorithms, and are dependant on the sensitivity level set in the Terrain Setup Menu.

<table>
<thead>
<tr>
<th>Alert Severity</th>
<th>Terrain</th>
<th>Obstacle</th>
<th>Descent Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caution</td>
<td>“caution, terrain”&lt;br&gt;“caution, terrain ahead”</td>
<td>“caution, obstacle”&lt;br&gt;“caution, obstacle ahead”</td>
<td>“caution, sink rate”</td>
</tr>
<tr>
<td>Warning</td>
<td>“terrain ahead! pull up!”&lt;br&gt;“terrain! terrain! pull up! pull up!”</td>
<td>“obstacle ahead! pull up!”&lt;br&gt;“obstacle! obstacle! pull up! pull up!”</td>
<td>“sink rate, pull up!”&lt;br&gt;“pull up!”</td>
</tr>
</tbody>
</table>

**Aural Alerts**

**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.
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Contact Garmin Product Support if you have any questions while using your aera 795/796 at www.flygarmin.com.

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- 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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