GPSMAP® 695/696

Portable Aviation Receiver
Quick Reference Guide

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This manual reflects the operation of System Software version 6.00 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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C E

Part Number	Change Summary
190-00959-00	Initial release

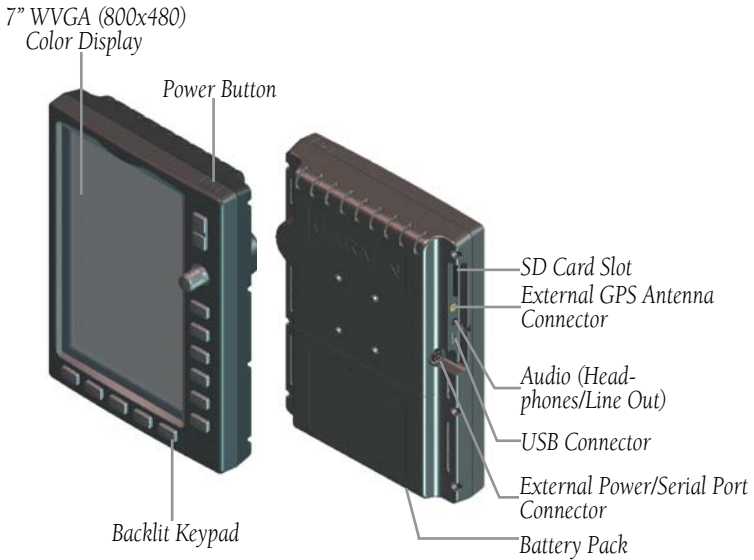| Rev	Date	Description
C	November, 2008	Production Release
D	February, 2012	**System Software Version 2.00 - 2.20 changes:** • Added separate leg and cumulative distance, ETE, and fuel fields to the flight plan pages. **System Software Version 2.20-2.30 changes:** • Added indication of airport CTAF frequencies to WPT page. **System Software Version 2.70-2.80 changes:** • Added display of plain-language PIREP text. • Added display of VOR radials when airway is highlighted. • Added display of country when reviewing a user waypoint. • Added sea surface temperature data. • Added display of parachute jumping area. **System Software Version 2.90-3.00**: • Added daylight savings time information display on Airport Waypoint page. **System Software Version 3.10-3.20 changes:** • FlightCharts are no longer disabled after fade date. • Added ability to import/export flight data via datacard. • Added ablility to highlight multiple weather objects using map cursor. • Added XM page menu option for selecting a specific channel number. • Added nearest airport page softkeys for toggling on/off private airports and heliports. • Added TIS traffic data status indicator to the Map Page. **System Software Version 3.30-4.00 changes:** • Added user-created checklists. • Added support to export user waypoints and track logs to SD card. • Added support for ChartView and geo-referenced FlightCharts. **System Software Version 4.20-4.30 changes:** • Added SiriusXM warning text. • Added menu options to WPT page for viewing departure and destination airports. • Added displaced runway threshold distance on airport review page. • Added suggested indicated altitude on E6B page.

		System Software Version 4.40-4.50 changes:
		• Added AC-U-KWIK airport data support.
		System Software Version 4.70-4.80 changes:
		• Added display setup option to show/hide aircraft position on maps and charts
		System Software Version 4.80-4.90 changes:
		• Added configurable data fields to display current climb gradient in percent or altitude gain per nautical mile.
		• Added runway number labels to runway extension lines on map.
		• Added Map Setup page items for adjusting visibility of water labels, park and land cover areas, runway numbers, and runway extension lines.
		• Added separate control for speed and distance units.
		• Added custom waypoint symbols support.
		• Changed screenshot utility to be activated when Menu key is pressed and held.
		• Changed XTK data fields display to more closely resemble G3X presentation.
		Other changes:
		• Changed XM to SiriusXM throughout.
		• Added TRAFFIC Softkey to Map Page Softkeys.
		• Added AOPA/DIRECTORY Softkey update info.
		• Added Terrain Page Softkeys.
		• Added Info Page Softkey.
		• Added Active Flight Plan Page Softkeys.
		• Added Flight Plan List Page Softkeys.
		• Added VNAV Page Softkeys.
		• Added Nearest Page Softkeys.
		• Updated AIRMETS and SIGMETS
		• Added PIREP info.
		• Added Turbulence Forecast info.
		• Added Icing Forecast info.
		• Updated Chartview and FliteChart info.
		• Updated AOPA Airport Directory to just Airport Directory where applicable.
		• Updated System Messages.
		• Updated Data Field Options.
		• Updated database information.
E	August, 2012	**System Software Version 4.90-6.00 changes:** • Added GDL 39 support

Blank Page

OVERVIEW

7" WVGA (800x480) Color Display

Power Button

SD Card Slot
External GPS Antenna Connector

Audio (Head-phones/Line Out)

USB Connector

External Power/Serial Port Connector

Backlit Keypad

Battery Pack

Unit Overview

1
2
3
4
5
6
7
8
9
10

GARMIN

①	**Power Button**	Press and hold to turn the unit on or off
		With the unit on, press to adjust the backlight and volume
②	**RNG Key**	Press to increase or decrease the viewing range of the map
③	**FMS Joystick**	Press the **FMS** Joystick to toggle input focus between user interaction with the current page and the page navigation bar
		Turn the **FMS** Joystick clockwise to access a dropdown menu
		Turn the **FMS** Joystick to change the selected value within the highlighted field
		Move the **FMS** Joystick to highlight fields or move the map pointer when interacting with the page
④	**ENT Key**	Press to confirm menu selection or data entry
		Press to acknowledge messages
		Press and hold to mark a waypoint
⑤	**CLR Key**	Press to cancel an entry, revert to the previous value in a data entry field, or remove menus
		Press and hold to return to the default page
⑥	**MENU Key**	Press once to view the Page Menu
		Press twice to view the Main Menu
		Press a third time to clear the Main Menu
⑦	**FPL Key**	Press to display the Flight Plan Page
		Press a second time to remove the Flight Plan Page
⑧	**Direct-To Key**	Press to activate the Direct-To function, enter a destination waypoint, and establish a direct course to the selected destination
⑨	**NRST Key**	Press to display the Nearest Page for viewing the nearest airports, weather (696 ONLY), Cities, intersections, NDBs, VORs, waypoints, frequencies, and airspaces
⑩	**Softkey Selection Keys**	Press to select the softkey shown above the bezel key on the unit

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SOFTKEYS

Softkey On

Bezel Mounted Softkeys (Press)

Softkey Names (Displayed)

INFO   CHART   AOPA   WEATHER

Softkeys (WPT Page)

MAP PAGE SOFTKEYS

| MAP | TERRAIN | WEATHER | TRAFFIC | PANEL |

MAP   Enables second-level Map Page softkeys
TERRAIN   Displays/removes terrain awareness information
WEATHER   Displays/removes weather information
TRAFFIC   Displays/removes traffic information
PANEL   Displays/removes the Panel

MAP

Press the **BACK** Softkey to return to the top-level softkeys.

| VFR MAP | IFR MAP | TOPO | SAT VIEW | BACK |

| VFR MAP | IFR MAP | LOW AWY | HIGH AWY | BACK |

Side tabs: Overview · GPS Navigation · Flight Planning · Hazard Avoidance · Additional Features · Messages & Alerts · Utilities

GARMIN
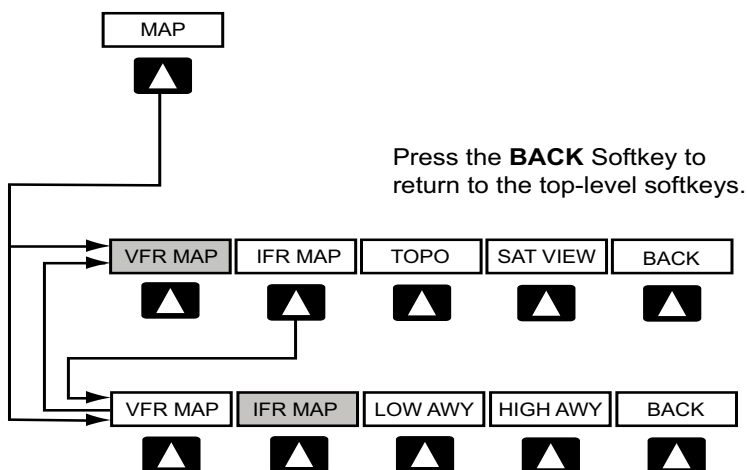
VFR MAP Softkey selected

IFR MAP	Displays IFR map information and softkeys
TOPO	Displays/removes topographical terrain shading
SAT VIEW	Displays/removes satellite imagery (above 20nm scale)
BACK	Returns to top-level softkeys

IFR MAP Softkey selected

VFR MAP	Displays VFR map information and softkeys
LOW AWY	Low Altitude (Victor) Airways displayed
HIGH AWY	High Altitude Airways (Jet Routes) displayed
BACK	Returns to top-level softkeys

WAYPOINT PAGE SOFTKEYS

(DIRECTORY)

| INFO | CHART | AOPA | WEATHER | |

Waypoint (WPT) Page Softkeys
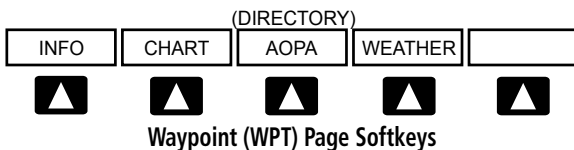
INFO	Displays waypoint information
CHART	Displays chart data (i.e., FliteCharts® or ChartView)
AOPA or DIRECTORY	Displays airport directory information
WEATHER	Displays METAR and TAF text (optional)

WEATHER PAGE SOFTKEYS (XM 696 ONLY, GDL 695/696)

| PAN MAP | | ANIMATE | INFO | LEGEND |

PAN MAP	Activates the map pointer for panning the map
ANIMATE	Animates NEXRAD Radar and Satellite Mosaic weather
INFO	Displays weather source information
LEGEND	Displays weather legends

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

GARMIN.

TRAFFIC PAGE SOFTKEYS (OPTIONAL GDL 39)

INFO		FLT ID	ALT MODE	DISABLE
▲	▲	▲	▲	▲

BELOW	NORMAL	ABOVE	UNREST	BACK
▲	▲	▲	▲	▲

INFO	STATIONS		SETUP	EXIT
▲	▲	▲	▲	▲
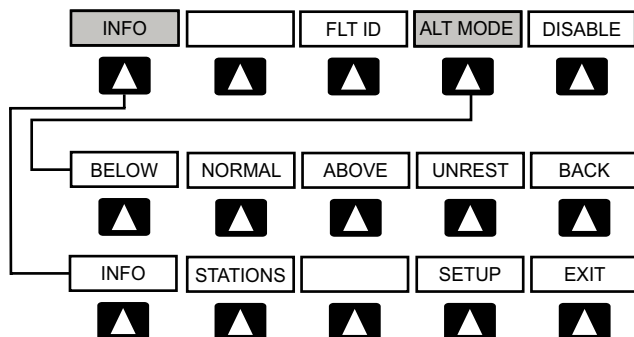
INFO	Select to view Data Link and Weather info
FLT ID	Displays FLT ID information.
ALT MODE	Select to set altitude mode.
DISABLE	Temporally disables traffic alerts

ALT MODE Softkey selected

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.
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 above the aircraft. Typically used during enroute phase of flight.
UNREST	(Unrestricted): All traffic is displayed from 9900 feet above and 9900 feet below the aircraft.

INFO Softkey selected

Stations	Displays ADS-B ground station(s) information.
SETUP	Select to set pressure altitude sensor on or off in the GDL 39.
EXIT	Returns to the Traffic Page.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

GARMIN.

SIRIUSXM AUDIO PAGE SOFTKEYS (GPSMAP 696 ONLY)

| INFO | CATEGORY | CHANNEL | FAVORITE | VOLUME |

INFO	Displays SiriusXM Information
CATEGORY	Highlights the Category field
CHANNEL	Highlights the Channels field
FAVORITE	Displays a list of favorite channels
VOLUME	Enables second-level VOLUME softkeys.
	Press and hold to toggle Mute on and off.

| VOLUME |

Press the **BACK** Softkey to
return to the top-level softkeys.

| | VOL - | VOL + | MUTE | BACK |
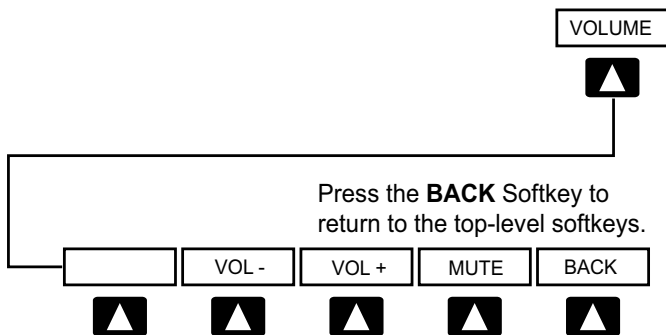
VOL -	Decreases SiriusXM audio volume
VOL +	Increases SiriusXM audio volume
MUTE	Toggles SiriusXM audio on/off
BACK	Returns to top-level softkeys

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

GARMIN.

DATA ENTRY

Using the FMS Joystick to enter data:

1) Press the **FMS** Joystick to activate the cursor.

2) Move the **FMS** Joystick to highlight the desired field.

3) Begin entering data.

a) To quickly enter a waypoint identifier, turn the **FMS** Joystick counter-clockwise to display a list of recent waypoints (RECENT WPTS), nearest airports (NRST APTS), or flight plan waypoints (FPL WPTS).

b) Move the **FMS** Joystick to highlight the desired waypoint from the list and press the **ENT** Key.

Or:

a) Turn the **FMS** Joystick to select a character for the first placeholder.

Turning the **FMS** Joystick clockwise scrolls through the alphabet (where appropriate) toward the letter Z, starting in the middle at K (US only), and the digits zero through nine. Turning the **FMS** Joystick counter-clockwise scrolls in the opposite direction.

b) Use the **FMS** Joystick to move the cursor to the next placeholder in the field.

c) Repeat, turning the **FMS** Joystick to select a character and using the **FMS** Joystick to move the cursor, until the fields are complete.

d) Press the **ENT** Key to confirm entry.

4) Press the **FMS** Joystick or the **CLR** Key to cancel data entry (the field reverts back to its previous information).

MENUS

Navigating the Page Menu:

1) Press the **MENU** Key once to display the Page Menu.

2) Turn or move the **FMS** Joystick to scroll through a list of available options (a scroll bar always appears to the right of the window/box when the option list is longer than the window/box).

3) Press the **ENT** Key to select the desired option.

4) Press the **FMS** Joystick, the **CLR** Key, the **MENU** Key twice to remove the menu and cancel the operation.
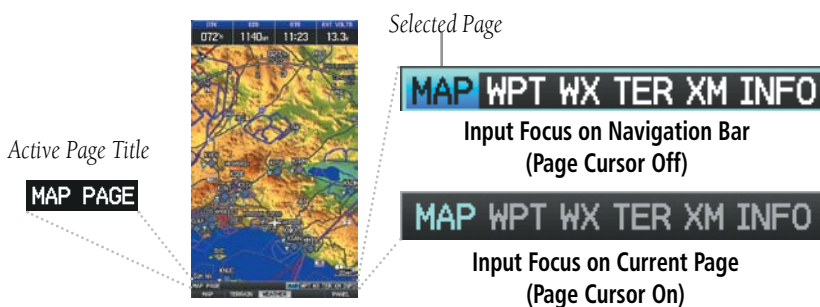
Navigating the Main Menu:

1) Press the **MENU** Key twice to display the Main Menu.

2) Turn or move the **FMS** Joystick to scroll through a list of available options (a scroll bar always appears to the right of the window/box when the option list is longer than the window/box).

3) Press the **ENT** Key to select the desired option.

4) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey, or the **MENU** Key to remove the menu and cancel the operation.

PAGES

Selected Page

Input Focus on Navigation Bar (Page Cursor Off)

Input Focus on Current Page (Page Cursor On)

Active Page Title

MAP PAGE

Selecting a Main Page using the FMS Joystick:

1) If necessary press the **FMS** Joystick to begin interaction with the Navigation Bar.

2) Turn the **FMS** Joystick until the desired page is selected (**MAP**, **WPT**, **WX**, **TER**, **XM**, **INFO**).

Selecting the FPL or NRST Pages:
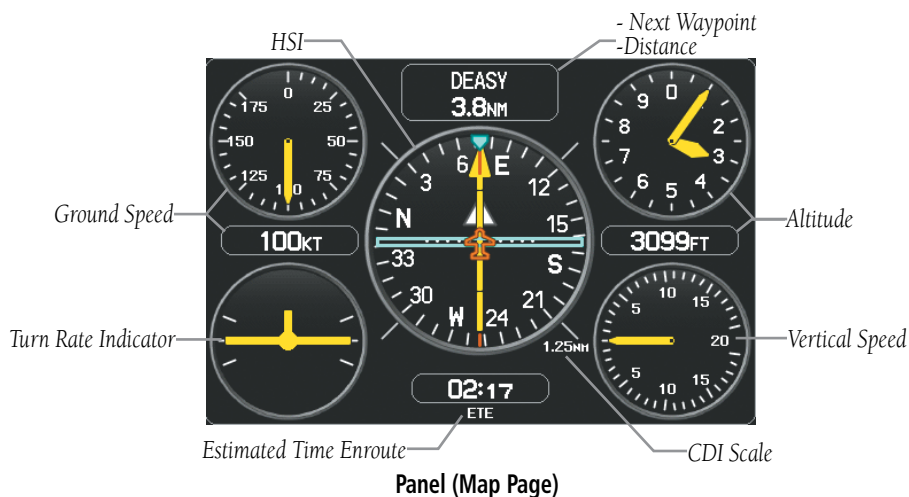
1) Press the **FPL** or the **NRST** Key.

2) If necessary, press the **FMS** Joystick to begin interaction with the Navigation Bar.

3) Turn the **FMS** Joystick until the desired page is selected.

Side tabs: Overview | GPS Navigation | Flight Planning | Hazard Avoidance | Additional Features | Messages & Alerts | Utilities

GPS NAVIGATION

PANEL

HSI
- Next Waypoint
-Distance
Ground Speed
Turn Rate Indicator
Altitude
Vertical Speed
Estimated Time Enroute
CDI Scale

Panel (Map Page)

Setting the Bug Indicator:

1) From the Map Page, press the **MENU** Key to display the Map Page Menu.

2) Turn or move the **FMS** Joystick to highlight 'Set Bug Indicator', and press the **ENT** Key. The 'Set Bug Indicator' Menu appears.

3) Turn or move the **FMS** Joystick to highlight the desired menu option, and press the **ENT** Key. For the 'User Selected' option, turn the **FMS** Joystick to select the desired heading reference, and press the **ENT** Key.

Manually setting a course to the destination waypoint:

1) From the Map Page, press the **MENU** Key to display the Map Page Menu.

2) Turn or move the **FMS** Joystick to highlight 'Set OBS and Hold', and press the **ENT** Key.

3) Turn the **FMS** Joystick to select the desired course to the destination, and press the **ENT** Key.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

WAYPOINT PAGE

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

1) From the Waypoint (WPT) Page, press the **INFO** Softkey.

2) Press the **FMS** Joystick to activate the cursor.

3) Turn the **FMS** Joystick clockwise to begin entering a waypoint identifier (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it), or move the **FMS** Joystick to select the facility name, or city field.

4) Press the **ENT** Key.

NEAREST PAGES

Viewing nearest information:

1) Press the **NRST** Key.

2) Turn the **FMS** Joystick to select the desired Nearest Page (APT, WX, VOR, NDB, INT, USR, CTY, ATC, FSS, or ASPC). If none are available, "None Within 200 NM" is displayed.

3) Press the **FMS** Joystick to highlight the first selection in the list. Turn or move the **FMS** Joystick to highlight the desired nearest option.

4) Press the **ENT** Key to display the associated 'Information Page'. From the Airport Information Page and Weather Information Page, press the **INFO**, **CHART**, **AOPA** / **DIRECTORY**, or **WEATHER** Softkeys for additional information. From the User Waypoint Information Page, press the **DELETE**, or **EDIT** softkeys to make changes to the selected user waypoint.

5) To return to the Nearest Page, press the **FMS** Joystick, the **ENT** Key, or the **CLR** Key.

USER WAYPOINTS

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

Creating user waypoints:

1) To create a user waypoint at the current location, using the Map Pointer, or from the Main Menu:

a) To create a user waypoint at the current location, press and hold the **ENT** Key from any page.

b) The 'Mark a New User Waypoint? window appears.

Or:

a) Press the **MENU** Key twice to access the Main Menu.
b) Move the **FMS** Joystick to highlight 'User Waypoints' and press the **ENT** Key.

c) Press the **NEW** Softkey. The message "Create a New User Waypoint?" message is displayed. The current aircraft position is the default location of the new waypoint.

Or:

a) From a map page, press the **FMS** Joystick to activate the Map Pointer (on the WX Page, press the **PAN MAP** Softkey or press **Menu**, then 'Show Map Point').

b) Find an empty area without any map features and press the **ENT** Key. The message "Create a New User Waypoint?" message is displayed.

Or:

a) From a map page, press the **FMS** Joystick to activate the Map Pointer (on the WX Page, press the **PAN MAP** Softkey) ('Create User Waypoint' is not available in the WX Page Menu).

b) Select a map feature using the Map Pointer and press the **MENU** Key.

c) With 'Create User Waypoint' highlighted, press the **ENT** Key. The message "Create a New User Waypoint?" message is displayed.

2) With 'Yes' highlighted, press the **ENT** Key. The New Waypoint Window is displayed.

3) Move the **FMS** Joystick to the User Waypoint Name Field and enter the waypoint name, if desired.

GARMIN

4) If desired, select the waypoint symbol:

a) Move the **FMS** Joystick to highlight the Symbol.

b) Turn the **FMS** Joystick to access the 'Select Symbol' Menu.

c) Turn or move the **FMS** Joystick to highlight the desired symbol from the menu, and press the **ENT** Key.

5) If desired, press the **POSITION** Softkey and enter the latitude, longitude, name, or altitude for the waypoint **or** press the **REF WPTS** Softkey to enter a bearing and distance from another waypoint or the bearing from two other waypoints to define the new waypoint location.

6) With 'Done' highlighted, press the **ENT** Key.

DIRECT-TO

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

1) Press the **Direct-to** Key. The Direct-to Window is displayed (with the active flight plan waypoint as the default selection or a blank waypoint field if no flight plan is active).

2) Turn the **FMS** Joystick clockwise to begin entering a waypoint identifier (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it), press the **RECENT** Softkey to display a list of recent waypoints, or move the **FMS** Joystick to select the facility name, or city field.

3) Press the **ENT** Key.

4) With 'Activate' highlighted, press the **ENT** Key.

FLIGHT PLANNING

FLIGHT PLAN CREATION

Creating an active flight plan:

1) Press the **FPL** Key.

2) Press the **FMS** Joystick to activate the cursor.

3) Turn the **FMS** Joystick to display the Insert Waypoint Window. (Turning it clockwise displays a blank Insert Waypoint Window, turning it counter-clockwise displays a list of recent waypoints (RECENT WPTS), nearest airports (NRST APTS), or flight plan waypoints (FPL WPTS)).

4) Enter the identifier, facility, or city name of the departure waypoint or select a waypoint from the submenu of waypoints and press the **ENT** Key. The active flight plan is modified as each waypoint is entered.

5) Repeat step numbers 3 and 4 to enter each additional flight plan waypoint.

6) When all waypoints have been entered, press the **FMS** Joystick to remove the cursor.

FLIGHT PLAN STORAGE

Viewing information about a stored flight plan:

1) Press the **FPL** Key.

2) Turn the **FMS** Joystick to display the Flight Plan List Page.

3) Press the **FMS** Joystick to activate the cursor and turn or move the **FMS** Joystick to highlight the desired flight plan.

4) Press the **ENT** Key. The Saved Flight Plan Page is displayed showing departure, destination, total distance, and enroute safe altitude information for the selected Flight Plan.

5) Press the **FMS** Joystick or the **DONE** Softkey to exit the Saved Flight Plan Page.

GARMIN

Storing an active flight plan from the Active Flight Plan Page:

1)	Press the **FPL** Key.

2)	Turn the **FMS** Joystick to select the Active Flight Plan Page.

3)	Press the **MENU** Key. The Active Flight Plan Page Menu is displayed.

4)	Turn or move the **FMS** Joystick to highlight 'Save Flight Plan'.

5)	Press the **ENT** Key.

6)	With 'Yes' highlighted, press the **ENT** Key. A copy of the flight plan is stored in the next available position in the flight plan list on the Flight Plan List Page.

FLIGHT PLAN ACTIVATION

Activating a stored flight plan:

1)	Press the **FPL** Key and turn the **FMS** Joystick to display the Flight Plan List Page.

2)	Press the **FMS** Joystick to activate the cursor, and turn or move the **FMS** Joystick to highlight the desired flight plan.

3)	Select the **ACTIVATE** Softkey; or press the **MENU** Key, highlight 'Activate Flight Plan', and press the **ENT** Key.

4)	With 'Yes' highlighted, select the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

Activating a Flight Plan Leg:

1)	Press the **FPL** Key.

2)	Turn the **FMS** Joystick to display the Active Flight Plan Page.

3)	Press the **FMS** Joystick to activate the cursor and move the **FMS** Joystick to highlight the waypoint leg to be activated.

4)	Press the **Direct-to** Key twice. The "Activate Leg XXXXX - XXXXX?" window is displayed.

5)	With 'Yes' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

ADJUSTING FUEL FLOW

Adjusting the Active Flight Plan fuel flow:

1) Press the **FPL** Key and turn the **FMS** Joystick to display the Active Flight Plan Page.

2) Press the **FMS** Joystick to activate the cursor, and move the **FMS** Joystick to highlight the 'Fuel Flow' field.

3) Using the **FMS** Joystick, enter the desired fuel flow, and press the **ENT** Key.

INVERTING A FLIGHT PLAN

Inverting the active flight plan:

1) Press the **FPL** Key to display the Active Flight Plan Page.

2) Press the **MENU** Key, turn or move the **FMS** Joystick to highlight 'Invert Flight Plan', and press the **ENT** Key. An "Invert the Active Flight Plan?" confirmation window is displayed.

3) With 'Yes' highlighted, press the **ENT** Key to invert and activate the active flight plan. To cancel, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

SELECTING AN APPROACH

When an approach is selected and activated, it replaces the destination airport with the sequence of waypoints for the selected approach. When an approach is loaded, the destination airport remains in the flight plan and the approach sequence of waypoints are appended to the flight plan. Keep in mind that the airport must have a published approach (GPS, RNAV, VOR, NDB, localizer, or ILS) and only the final course segment (final approach fix to missed approach point) of the published approach is available in the GPSMAP 695/696.

An approach can be selected from the Direct-to Window, Waypoint (WPT) Page, Active Flight Plan Page, and the Saved Flight Plan Page.

Loading an approach from the active or saved flight plan page:

1) Press the **FPL** Key.

2) Turn the **FMS** Joystick to display the Active Flight Plan Page or Saved Flight Plan Page.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

GARMIN

3) Press the **SEL APPR** Softkey; or press the **MENU** Key, highlight 'Select Approach' by turning or moving the **FMS** Joystick, and press the **ENT** Key. The Select Approach Window is displayed.

4) Turn the **FMS** Joystick to access a list of available approaches. Turn or move the **FMS** Joystick to highlight the desired approach and press the **ENT** Key.

5) With 'Load Approach' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key or the **FMS** Joystick.

Activating an approach on the Active Flight Plan Page:

1) Press the **FPL** Key.

2) Turn the **FMS** Joystick to display the Active Flight Plan Page (if necessary).

3) Press the **SEL APPR** Softkey; or press the **MENU** Key, highlight 'Select Approach' by turning or moving the **FMS** Joystick, and press the **ENT** Key. The Select Approach Window is displayed.

4) Turn the **FMS** Joystick to access a list of available approaches. Turn or move the **FMS** Joystick to highlight the desired approach and press the **ENT** Key.

5) With 'Activate Approach' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key or the **FMS** Joystick.

ACTIVATING VECTORS-TO-FINAL

After an approach has been activated, the **VECTORS** Softkey is used when being vectored to the final approach course by Air Traffic Control (ATC).

If the **VECTORS** Softkey is selected, the GPSMAP 695/696 creates an extension of the final course, beyond the final approach waypoint in the database (final approach fix [FAF]). On the Active Flight Plan Page, a Vectors-to-Final symbol appears beside the first approach waypoint.

Cancelling Vectors-to-Final:

From the Active Flight Plan Page (with an approach activated), press the **VECTORS** Softkey.

Or:

1) From the Active Flight Plan Page, press the **MENU** Key.

2) Turn or move the **FMS** Joystick to highlight 'Cancel Vectors-to-Final' and press the **ENT** Key.

HAZARD AVOIDANCE

WEATHER SOURCE (GPSMAP 696 ONLY)

Switching Weather Sources:

1) Press the **MENU** Key twice to display the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.

3) Turn or move the **FMS** Joystick to highlight 'WEATHER.'

4) Press the **ENT** Key.

5) Turn or move the **FMS** Joystick to select the desired weather source (AUTO, XM, or GDL FIS-B). The default is 'AUTO' which will use XM over GDL FIS-B if both are available.

6) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the previous page.

SIRIUSXM WEATHER (GPSMAP 696 ONLY)

Viewing SiriusXM Weather products on the Map Page:

1) Select the Map Page.

2) Select the **WEATHER** Softkey to display the SiriusXM Weather products.

   Or:

   a) Press the **MENU** Key.

   b) Select 'Show Weather' and press the **ENT** Key.

3) Press the **FMS** Joystick to activate the Map Pointer.

4) Use the **FMS** Joystick to highlight the desired weather product with the Map Pointer.

5) With the desired weather product highlighted, press the **ENT** Key to get detailed information (if available).

GARMIN.

Viewing SiriusXM Weather products on the Weather (WX) Page:

1) From the WX Page, press the **FMS** Joystick to highlight the weather product field.

2) Turn the **FMS** Joystick to select and automatically display the desired weather product.

3) If necessary, move the **FMS** Joystick to highlight the type field and turn the **FMS** Joystick to scroll through a list of available options.

4) Press the **PAN MAP** Softkey to get abbreviated information about the selected weather product or map feature (if available).

5) With the desired weather product selected press the **ENT** Key to get detailed information (if available).

DATA LINK WEATHER (FIS-B) (695 AND 696)

Viewing FIS-B Product Status:

1) Press the **MENU** Key twice to display the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'Data Link Information' and press the **ENT** Key.

3) Press the **WEATHER** Softkey, to view the age in hours:minutes of each weather product.

Or:

1) From the Weather Page, press the **INFO** Softkey.

Viewing FIS-B Weather products on the Map Page:

1) Select the Map Page.

2) Select the **WEATHER** Softkey to display the FIS-B weather products.

    Or:

    a) Press the **MENU** Key.

    b) Select 'Show Weather' and press the **ENT** Key.

3) Press the **FMS** Joystick to activate the Map Pointer.

4) Use the **FMS** Joystick to highlight the desired weather product with the Map Pointer.

5) With the desired weather product highlighted, press the **ENT** Key to get detailed information (if available).

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

Viewing FIS-B Weather products on the Weather (WX) Page:

1) From the WX Page press the **FMS** Joystick to highlight the weather product field.

2) Turn the **FMS** Joystick to select and automatically display the desired weather product.

3) If necessary, move the **FMS** Joystick to highlight the type field and turn the **FMS** Joystick to scroll through a list of available options.

4) Press the **PAN MAP** Softkey to get abbreviated information about the selected weather product or map feature (if available).

5) With the desired weather product selected press the **ENT** Key to get detailed information (if available).

Viewing FIS-B NOTAMs:

1) From the Waypoints Page press **NOTAMS** Softkey.

2) If needed, scroll up or down using the **FMS** Joystick.

TERRAIN

Enabling/Disabling Terrain Shading on the Map Page:

From the Map Page with the VFR Map displayed, press the **TERRAIN** Softkey.

Or

1) From the Map Page, press the **MENU** Key.

2) Turn or move the **FMS** Joystick to highlight 'Set Up Map', and press the **ENT** Key.

3) Turn the **FMS** Joystick to highlight the 'Map' Category from the horizontal list.

4) Move the **FMS** Joystick to highlight the 'Terrain Shading' field.

5) Turn the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.

Enabling/Disabling terrain alerts:

From the Terrain Page, press the **DISABLE** Softkey.

Or:

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

1) From the Terrain Page, press the **MENU** Key to access the Page Menu.

2) Turn or move the **FMS** Joystick to highlight 'Disable Alerts' or 'Enable Alerts' and press the **ENT** Key.

Setting up the Terrain Page:

1) On the Terrain Page, press **MENU** to access the Page Menu.

2) Turn or move the **FMS** Joystick to highlight 'Set Up Terrain' and press the **ENT** Key.

3) Move the **FMS** Joystick to highlight the desired field.

4) Turn the **FMS** Joystick to make changes to the highlighted field.

5) With 'Done' highlighted press the **ENT** Key, or press the **CLR** Key to accept the changes and exit the Terrain Setup window.

TRAFFIC SOURCE

If more than one traffic source is configured, the current traffic source is annunciated in the upper left hand corner of the Traffic Page (TRF).

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

Traffic Source Annunciation

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

TRAFFIC INFORMATION SERVICE (TIS-A)

Setting up and customizing TIS traffic on the map page:

From the Map Page press the **TRAFFIC** Softkey to toggle traffic on/off.

Or:

1) From the Map Page press the **MENU** Key.

2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.

3) Turn the **FMS** Joystick to select the 'Map' Category from the horizontal list.

4) Move the **FMS** Joystick to highlight the 'TRAFFIC DATA' Field.

5) Turn the **FMS** Joystick to access a list of options for each feature (On/Off,).

6) Using the **FMS** Joystick select the desired option and press the **ENT** Key.

7) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the Map Page with the changed settings.

Adjusting alert volume:

1) Press the **MENU** Key twice to access the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'System Setup', and press the **ENT** Key.

3) Turn or move the **FMS** Joystick to highlight 'Sound', and press the **ENT** Key.

4) Move the **FMS** Joystick to highlight the 'Alert Volume' field.

5) Turn the **FMS** Joystick to select the desired volume (0-10).

6) Press the **EXIT** Softkey or **FMS** Joystick to exit.

DATA LINK TRAFFIC (GDL 39)

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

1) Press the **MENU** Key twice to display the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'Data Link' and press the **ENT** Key.

Overview | GPS Navigation | Flight Planning | Hazard Avoidance | Additional Features | Messages & Alerts | Utilities

GARMIN

3) Select the SETUP Softkey.

4) Turn or move the **FMS** Joystick to select Aircraft Type (i.e., PRESSURIZED or NOT PRESSURIZED).

5) Press the **EXIT** Softkey or **FMS** Joystick to exit.

Enabling/disabling traffic data on the Map Page:

1) From the Map Page, press the **MENU** Key.

2) Turn or move the **FMS** Joystick to highlight 'Set Up Map', and press the **ENT** Key.

3) If necessary, turn the **FMS** Joystick to highlight the 'Map' Category from the horizontal list.

4) Move the **FMS** Joystick to highlight the 'Traffic Data' field.

5) Turn the **FMS** Joystick to select 'ON' or 'OFF' from the menu, and press the **ENT** Key.

Displaying Traffic information using the map pointer:

1) With traffic displayed on the Map Page, press the **FMS** Joystick. The Map Pointer is activated.

2) Move the **FMS** Joystick to highlight the desired traffic.

Changing the altitude range:

1) On the Traffic Page, select the **ALT MODE** Softkey.

2) Press one of the following Softkeys:

> • **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.

> • **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.

> • **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.

> • **UNREST** (unrestricted)**:** All traffic is displayed.

3) To return to the Traffic Page, press the **BACK** Softkey.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

ADDITIONAL FEATURES

SAFETAXI

Enabling/disabling SafeTaxi:

1) With the Map Page displayed, press the **MENU** Key. The Map Page Menu is displayed.

2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.

3) Turn the **FMS** Joystick to highlight the 'Airport' Category from the horizontal list.

4) Move the **FMS** Joystick to highlight the 'Safe Taxi' Field.

5) Turn the **FMS** Joystick to access the menu options.

6) Turn or move the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.

CHARTVIEW (OPTIONAL)

Displaying ChartView:

1) With the Waypoint (WPT) Page displayed, press the **CHART** Softkey.

2) Press the **FMS** Joystick to activate the cursor.

3) Move the **FMS** Joystick to highlight the Airport Identifier Field and use the **FMS** Joystick to begin entering the desired airport.

Or:

a) Move the **FMS** Joystick to highlight the Chart Field.

b) Turn the **FMS** Joystick to access a drop-down menu of available charts.

c) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

Or:

1) From the Active Flight Plan Page (with a waypoint entered), press the **SEL APPR** Softkey. The Select Approach Window is displayed.

GARMIN.

2) Press the **MENU** Key.

3) Turn or move the **FMS** Joystick to select 'Show Chart', and press the **ENT** Key. The selected chart is displayed.

4) Press the **EXIT** Softkey to return to the previous page.

   Or:

1) From the Map Page or Active Flight Plan Page, use the Map Pointer to highlight the desired airport and press the **ENT** Key. The Airport Information Window is displayed.

2) Press the **CHART** Softkey.

3) Press the **FMS** Joystick to activate the cursor.

4) Turn the **FMS** Joystick to access a drop-down menu of available charts.

5) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

FLITECHARTS

Displaying FliteCharts:

1) With the Waypoint (WPT) Page displayed, press the **CHART** Softkey.

2) Press the **FMS** Joystick to activate the cursor.

3) Move the **FMS** Joystick to highlight the Airport Identifier Field and use the **FMS** Joystick to begin entering the desired airport.

   Or:

   a) Move the **FMS** Joystick to highlight the Chart Field.

   b) Turn the **FMS** Joystick to access a drop-down menu of available charts.

   c) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

   Or:

1) From the Active Flight Plan Page (with a waypoint entered), press the **SEL APPR** Softkey. The Select Approach Window is displayed.

2) Turn or move the **FMS** Joystick to select 'Show Chart', and press the **ENT** Key. The selected chart is displayed.

3) Press the **EXIT** Softkey to return to the previous page.

Or:

1) From the Map Page or Active Flight Plan Page, use the Map Pointer to highlight the desired airport and press the **ENT** Key. The Airport Information Window is displayed.

2) Press the **CHART** Softkey.

3) Press the **FMS** Joystick to activate the cursor.

4) Turn the **FMS** Joystick to access a drop-down menu of available charts.

5) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

AIRPORT DIRECTORY DATA

Viewing Airport Directory information:

From the Waypoint (WPT) Page, press the **AOPA** or **DIRECTORY** Softkey.

Or:

1) From any map highlight an airport using the Map Pointer, and press the **ENT** Key. The Airport Information Window is displayed.

2) Press the **AOPA** or **DIRECTORY** Softkey.

3) To return to the map, press the **ENT** Key, the **CLR** Key, or the **FMS** Joystick.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

Blank Page

MESSAGES & ALERTS

SYSTEM MESSAGES

Message	Comments
Antenna Shorted to Ground	The external GPS antenna has an electrical connection problem. Contact Garmin Product Support.
Approaching Target Altitude	Within 1,000 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 your GXM 40 antenna. Contact Garmin Product Support.
Database Error	Internal problem with the unit. 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.
Lost Satellite Reception	The unit is unable to receive satellite signals.
Memory Full	Unit 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.
No XM Signal	The GXM 40 antenna is not receiving a SiriusXM signal.

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Messages & Alerts

Utilities

GARMIN.

Message	Comments
Proximity Memory Full	No additional proximity waypoints can be saved.
Proximity Radius Overlaps	The radii of two proximity waypoints overlap.
Route Already Exists	A route with the same name already exists.
Route Memory Full	No additional routes can be saved.
Route Truncated	Uploaded route from another device has more than 300 waypoints.
Route Waypoint Memory Full	No additional route waypoints can be saved.
Saving XM Program Information	A SiriusXM Radio channel lineup change has occured and the unit is saving the channel lineup to memory.
Steep Turn	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.
Transfer Complete	Data Transfer was completed.
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.
XM Antenna Not Responding	The unit is unable to communicate with the GXM 40.

![Garmin logo](garmin-logo.png)

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.

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.

Alert Severity	Terrain	Obstacle	Descent Rate
Caution	"caution, terrain" "caution, terrain ahead"	"caution, obstacle" "caution, obstacle ahead"	"caution, sink rate"
Warning	"terrain ahead! pull up!" "terrain! terrain! pull up! pull up!"	"obstacle ahead! pull up!" "obstacle! obstacle! pull up! pull up!"	"sink rate, pull up!" "pull up!"

Aural Alerts

Blank Page

UTILITIES

FLIGHT LOG

Viewing details for a flight:

1)   Press the **MENU** Key twice to display the Main Menu.

2)   Turn or move the **FMS** Joystick to select 'Flight Log', and press the **ENT** Key. (Hours and minutes can be displayed by pressing the **MENU** Key and selecting 'Show Hours and Minutes').

3)   Turn or move the **FMS** Joystick to select the desired flight from the list, and press the **ENT** Key. Route, date, hours, distance, and actual flight path is displayed.

4)   With 'Done' selected, press the **ENT** Key to return to the previous page.

TRACK LOG

Displaying/removing the track log on the Map Page:

1)   From the Map Page, press the **MENU** Key. The Map Page Menu is displayed.

2)   Turn or move the **FMS** Joystick to select 'Set Up Map' from the Map Page Menu, and press the **ENT** Key.

3)   Turn the **FMS** Joystick to highlight the 'Line' options from the horizontal list.

4)   Move the **FMS** Joystick to highlight the 'Track Log' field.

5)   Turn the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.

6)   Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the Map Page.

E6B CALCULATOR

Calculating true airspeed and density altitude:

1) From the E6B Calculator Page, enter the altitude shown on the altimeter into the 'Indicated Altitude' field, and press the **ENT** Key.

2) Repeat for 'Calibrated Airspeed', 'Baro Pressure', and 'Total Air Temperature' fields. (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) Calculate or enter the true airspeed into the 'True Airspeed' field, and press the **ENT** Key.

2) Enter the aircraft heading shown on the directional gyro or compass into the 'Heading' field, and press the **ENT** Key. Head/Tail Wind, Wind From, and Wind Speed are calculated.

AIRCRAFT PROFILE

Entering an aircraft profile:

1) From the Aircraft Profile Page, press the **NEW** Softkey. The cursor is activated in the 'Current Aircraft' field.

2) Enter the desired aircraft name, and press the **ENT** Key.

3) Move the **FMS** Joystick to the 'Cruise Speed' field, turn the **FMS** Joystick to enter the appropriate cruise speed, and press the **ENT** Key. Repeat for the 'Maximum Speed' and 'Fuel Flow' fields.

4) Move the **FMS** Joystick to highlight the 'Map Symbol' field, and turn the **FMS** Joystick to select the desired map symbol.

WEIGHT & BALANCE

Performing weight and balance calculations:

1) Press the **MENU** Key twice to open the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'Weight & Balance', and press the **ENT** Key.

3) Select the desired aircraft from the 'Current Aircraft' field.

4) Use the **FMS** Joystick to enter the desired weights and arms (or "stations"), pressing the **ENT** Key after each entry. The calculated moment, weight, and CG figures appear at the bottom of the page. Keep in mind that the "Aircraft" (empty weight/arm) figures must be entered as a reference to calculate a valid moment, weight, and CG.

5) To empty the aircraft, press the Menu Key and select 'Empty Aircraft', or press the **EMPTY** Softkey.

PROXIMITY WAYPOINTS

Defining proximity waypoints:

1) Press the **MENU** Key twice to open the Main Menu.

2) Turn or move the **FMS** Joystick to highlight 'User Waypoints', and press the **ENT** Key.

3) Press the **PROXIMITY** Softkey. The Proximity Waypoints Page is displayed.

4) Press the **NEW** Softkey. The New Proximity Waypoint Window is displayed.

5) Select 'Use Map' or 'Use Identifier', and press the **ENT** Key.

6) Select the desired waypoint using the Map or Select Waypoint Window, and press the **ENT** Key. The 'Distance' field is highlighted.

7) Using the **FMS** Joystick, enter the desired distance and press the **ENT** Key.

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