



GTN 725/750

Cockpit Reference Guide (CRG)

Map



Traffic



Terrain



Weather



Charts



Flight Plan



Procedures



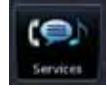
Nearest



Waypoint Info



Services



Utilities



System





WARNING: Navigation and terrain separation must NOT be predicated upon the use of the terrain function. The GTN 725/750 Terrain Proximity and HTerrain Proximity features are NOT intended to be used as a primary reference for terrain avoidance and does not relieve the pilot from the responsibility of being aware of surroundings during flight. The Terrain Proximity feature is only to be used as an aid for terrain avoidance and is not certified for use in applications requiring a certified terrain awareness system. Terrain data is obtained from third party sources. Garmin is not able to independently verify the accuracy of the terrain data.



WARNING: The displayed minimum safe altitudes (MSAs) are only advisory in nature and should not be relied upon as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate minimum clearance altitudes.



WARNING: The Garmin GTN 725/750 has a very high degree of functional integrity. However, the pilot must recognize that providing monitoring and/or self-test capability for all conceivable system failures is not practical. Although unlikely, it may be possible for erroneous operation to occur without a fault indication shown by the GTN 725/750. It is thus the responsibility of the pilot to detect such an occurrence by means of cross-checking with all redundant or correlated information available in the cockpit.



WARNING: The altitude calculated by GPS receivers is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters, such as the output from the GDC 74A/B Air Data Computer, or other altimeters in aircraft. GPS altitude should never be used for vertical navigation. Always use pressure altitude displayed by pressure altimeters in the aircraft.



WARNING: Do not use outdated database information. Databases used in the GTN 725/750 system must be updated regularly in order to ensure that the information remains current. Pilots using an outdated database do so entirely at their own risk.



WARNING: Do not use basemap (land and water data) information for primary navigation. Basemap data is intended only to supplement other approved navigation data sources and should be considered as an aid to enhance situational awareness.



WARNING: Traffic information shown on the GTN 725/750 is provided as an aid in visually acquiring traffic. Pilots must maneuver the aircraft based only upon ATC guidance or positive visual acquisition of conflicting traffic.



WARNING: SiriusXM Weather should not be used for hazardous weather penetration. Weather information is approved only for weather avoidance, not penetration.



WARNING: NEXRAD weather data is to be used for long-range planning purposes only. Due to inherent delays in data transmission and the relative age of the data, NEXRAD weather data should not be used for short-range weather avoidance.



WARNING: For safety reasons, GTN 725/750 operational procedures must be learned on the ground.



WARNING: To reduce the risk of unsafe operation, carefully review and understand all aspects of the GTN 725/750 Pilot's Guide as well as this guide. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the GTN 725/750 to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety purposes, always resolve any discrepancies before continuing navigation.



WARNING: Never use datalinked weather to attempt to penetrate a thunderstorm. Both the FAA Advisory Circular, Subject: Thunderstorms, and the Airman's Information Manual (AIM) recommend avoiding "by at least 20 miles any thunderstorm identified as severe or giving an intense radar echo."



WARNING: Do not use the indicated data link weather product age to determine the age of weather information shown by the data link weather product. Due to time delays inherent in gathering and processing weather data for data link transmission, the weather information shown by the data link weather product may be significantly older than the indicated weather product age.



CAUTION: The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment. Portions of the GTN 725/750 utilize GPS as a precision electronic NAVigation AID (NAVAID). Therefore, as with all NAVAIDs, information presented by the GTN 725/750 can be misused or misinterpreted and, therefore, become unsafe.



CAUTION: The Garmin GTN 725/750 does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could void both the warranty and the pilot's authority to operate this device under FAA/FCC regulations.



CAUTION: The GTN 725/750 has a display that is coated with a special anti-reflective coating that is very sensitive to waxes and abrasive cleaners. **CLEANERS CONTAINING AMMONIA WILL HARM THE ANTI-REFLECTIVE COATING.** It is very important to clean the display using a clean, lint-free cloth and an eyeglass lens cleaner that is specified as safe for anti-reflective coatings.



CAUTION: TFRs provided by the GDL 69/69A and GDL 88 datalink are only advisory and not a replacement for a thorough preflight briefing on TFR times and locations. Not all TFRs may be shown. Always confirm TFR data through official sources.



NOTE: All visual depictions contained within this document, including screen images of the GTN 725/750 bezel and displays, are subject to change and may not reflect the most current GTN 725/750 software. Depictions of equipment may differ slightly from the actual equipment.



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



NOTE: Terrain data is not displayed when the aircraft latitude is greater than 75° North or 60° South.



NOTE: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our web site at www.garmin.com/prop65.



NOTE: Canadian Installations: In accordance with Canadian Radio Specifications Standard 102 (RSS 102), RF field strength exposure to persons from an antenna connected to this device should be limited to 60V/m for controlled environment and 28 V/m for uncontrolled environment.

Record of Revisions			
Part Number	Revision	Date	Description
190-01007-04	A	Feb 2011	Initial Release
	B	Mar 2011	Updated message list.
	C	Nov 2012	Added v3.00 functionality.
	D	Feb 2013	Added v4.00 functionality.

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INTRODUCTION

This cockpit reference guide (CRG) is intended to serve as a quick reference covering the basic features and operating procedures for the GTN 725/750. For detailed descriptions of any information found in this guide, refer to the latest revision of the GTN 725/750 Pilot's Guide, P/N 190-01007-03 found at www.garmin.com.



GTN 750 Front Panel/Main Page



Direct-To Key - Press to provide a direct course to a selected waypoint.



Home Key - A single press of the Home Key returns the user to the main page to access features. Pressing and holding the HOME key while on any page will display the default MAP page.



Volume and Squelch Knob - Upper left knob controls volume of the COM and NAV radios. Press to use the IDENT function of the NAV radio. Pressing and holding the volume knob will change the frequency to emergency frequency.



Large and Small Knobs - Both are rotary knobs. The small knob can be pressed and held in to flip-flop COM and NAV frequencies.

Direct-To Navigation

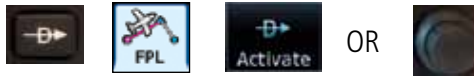


Press the **Direct-To** key to quickly navigate from your present position directly to a selected waypoint, flight plan waypoint, or nearest airport.

Direct-To a Waypoint

1. Press **Direct-To**.
2. Touch the Waypoint Identifier field and select the characters for the desired waypoint with the **large** and **small right** knobs or the touch keypad.
3. Touch **Activate** or press the **small right** knob. Text near the **small right** knob indicates its current function.

Direct-To a Flight Plan Waypoint



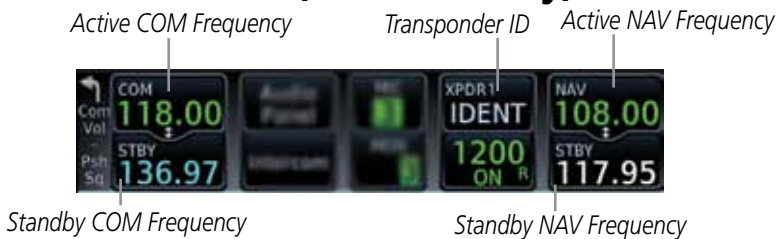
1. Press **Direct-To**.
2. Touch the **FPL** tab and then the desired Flight Plan waypoint.
3. Touch **Activate** or press the **small right** knob.

Direct-To a Nearest Airport



1. Press **Direct-To**.
2. Touch the **NRST APT** tab and then the desired airport from the Nearest Airport list. Touch the **Up** or **Down** keys as needed to show more of the list.
3. Touch **Activate** or press the **small right** knob.


NAV/COM RADIO (GTN 750 Only)



COM and NAV Radio Frequencies

Touchscreen Entry



NOTE:  designates functions that are accomplished by touching. Cyan colored keys represent fields that can be modified, white colored keys represent keys that change the state of operation for the related feature.

The COM or NAV frequency is changed by touching the **STBY** field and using the keypad to enter the desired frequency. Press **Enter** when finished or **Back** to exit without making changes. If an entry was started, touch **Cancel** to exit out of the screen without making changes.



COM Standby Page

- Mon:** Monitors the standby COM frequency.
- Find:** Displays categories for User, Recent, Nearest, and Flight Plan frequencies.
- Xfer:** Automatically enters the frequency to the active COM or NAV frequency window.



NOTE: The NAV Standby page is identical to the COM Standby page except that there is no MON key.

Selecting a NAV/COM Frequency using Rotary Knobs

Press the center of the **small right knob** to change the COM frequency display to the NAV frequency display.

1. Turn or momentarily press the **small** knob once to highlight the STBY field of COM or NAV. The knob function defaults to COM after 30 seconds of inactivity.
2. Turn the **large** knob to the desired MHz value.
3. Turn the **small** knob to the desired kHz value.
4. Press the **small** knob to confirm entry.

Frequency Flip/Flop

To flip/flop the active and standby NAV/COM frequencies, press and hold the **small** knob or touch the active NAV/COM frequency field. An annunciation, Hold for Flip-Flop, will be displayed near the knobs.



Audio Panel

The audio panel allows you to control the audio equipment of the aircraft. A green bar indicates that a particular selection is enabled. Touch the Audio Panel key on the main page (see Page 5) to configure speakers, radios, and microphone.



Audio Panel Key

The audio panel options page will be displayed.



Audio Panel Options

- Split Mode:** Touch to select Split COM Mode in which the pilot and co-pilot can select independent COM radios.
- Playback Controls:** Touch to use the audio clearance recorder.
- Cabin Speakers:** Touch to activate cabin speaker.
- Speaker Volume:** Touch to adjust the speaker volume of the cabin speakers.
- Marker Audio:** Touch to hear tones for marker beacons.
- Marker Volume:** Touch to adjust the volume of the marker beacon broadcast.
- Marker Hi Sense:** Touch to allow detection of the outer marker beacon at a greater distance.
- 3D Audio** Touch to toggle the 3D audio function on and off.

Monitored Radios

The Monitor function indicates which radios are being listened to by the crew and passengers.

Mic Selection

Use the Audio Panel page to select the microphone for transmitting. Mic selection can be accomplished by touching the **Audio Panel** key on the main page.

Intercom



Intercom

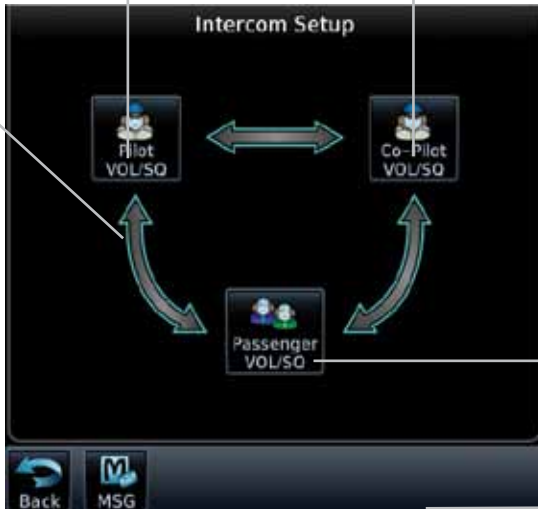


NOTE: The pilot's position, (left or right seat), is configured during installation and will be reflected on the Intercom Setup Page.

Touch to adjust pilot's volume and squelch.

Touch to adjust co-pilot's volume and squelch.

Touch arrow to activate communication between recipients. See Intercom Modes table.



Touch to adjust passenger's volume and squelch.

Intercom Setup Page (Pilot in Left Seat Shown)

Intercom Setup

The green arrow indicates active communication between the selected recipients. The modes depicted below have the pilot in the left seat.

Mode	Pilot Hears	Co-Pilot Hears	Passengers Hear
	Selected radios, pilot	Selected radios, co-pilot	Passengers
	Selected radios, pilot, co-pilot	Selected radios, pilot, co-pilot	Passengers
	Selected radios, pilot, co-pilot	Selected radios, co-pilot, pilot, passengers	Co-pilot, passengers
	Selected radios, pilot, passengers	Selected radios, co-pilot	Pilot, passengers
	Selected radios, pilot	Selected radios, co-pilot, passengers	Co-pilot, passengers
	Selected radios, pilot, co-pilot, passengers	Selected radios, pilot, co-pilot	Selected radios, pilot, passengers
	Selected radios, pilot, passengers	Selected radios, co-pilot, passengers	Selected radios, pilot, co-pilot, passengers
	Selected radios, pilot, co-pilot, passengers	Selected radios, pilot, co-pilot, passengers	Selected radios, pilot, co-pilot, passengers

Intercom Modes

If a GMA 35 is connected to the GTN, voice commands may be available. Refer to the GTN 725/750 Pilot's Guide, P/N 190-01007-03, for a complete description of the voice recognition feature.

Voice Recognition Commands

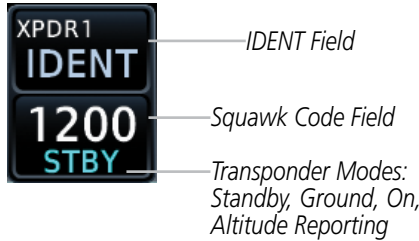
Control	Example Phrase	Action	
COM	"COM one"	Toggles COM1 audio.	
	"MIC one"	Selects MIC1/COM1 audio.	
	"COM one MIC"	Selects MIC1/COM1 audio.	
	"COM two"	Toggles COM2 audio.	
	"MIC two"	Selects MIC2/COM2 audio.	
	"COM two MIC"	Selects MIC2/COM2 audio.	
	"COM three"	Toggles COM3 audio.	
	"MIC three"	Selects MIC3/COM3 audio.	
	"COM three MIC"	Selects MIC3/COM3 audio.	
	"Split COM" or "Split Mode"	Toggles split COM mode.	
NAV	"NAV one"	Toggles NAV1 audio.	
	"NAV two"	Toggles NAV2 audio.	
MUSIC	"MUSIC one mute" or Mute MUSICD one"	Mutes Music 1 on radio reception.	
	"Disable MUSIC one mute" "MUSIC one mute disable" "Disable mute MUSIC one" or "Mute MUSIC one disable"	Disables Music 1 mute on radio reception.	
	"MUSIC two mute" or "Mute MUSIC two"	Mutes Music 2 on radio reception.	
	"Disable MUSIC two mute" "MUSIC two mute disable" "Disable mute MUSIC two" or "Mute MUSIC two disable"	Disables Music 2 mute on radio reception.	
	Speaker	"Speaker" or "Cabin Speaker"	Toggles Cabin Speaker on/off.
	COM Clearance Recorder	"Play" "Read back" or "Say again"	Opens Audio Clearance Recorder and plays the last received radio transmission.
PA	"P-A" or "Passenger Address"	Toggles PA on/off.	
Marker Beacon	"Marker" or "Marker Beacon"	Same action as pressing Marker Audio.	

Control	Example Phrase	Action
Volume Adjustments	"(Desired selection*) volume up"	Increases volume of desired selection.
	"(Desired selection*) volume down"	Decreases volume of desired selection.
	"(Desired selection*) volume"	Displays the current volume but does not change it.
<p>* Desired selection: "Speaker", "pilot", "copilot", "passenger", "pass", "phone", "marker", "telephone", "music one", or "music two."</p> <p>NOTE: Finer volume adjustment may be made using the volume knob on the GTN 7xx. The voice command "Up" or "Down" is equivalent to five clicks of the Volume knob.</p>		
Distribution (Blue Mode)	"Distribute telephone to (desired position(s) **)" or "Distribute phone to (desired position(s) **)"	Distributes Telephone to desired positions.
	"Distribute music one to (desired position(s) **)"	Distributes MUS1 to desired position(s).
	"Distribute music two to (desired position(s) **)"	Distributes MUS2 to desired position(s).
<p>** Desired position(s): "All", "none", "pilot", "copilot", "passenger", "pass", or any combination of pilot, copilot, passenger, or pass.</p> <p>NOTE: The word "to" may be omitted from distribution phrases.</p>		
3D Audio	"Three-D audio"	Enables 3D audio Voice Response: "Three-D audio left, three-D audio right."
	"Standard audio"	Enables standard audio (disables 3D audio) Voice Response: "Standard Audio."

TRANSPONDER

Transponder Control

Touch the Squawk Code Field to display the Transponder panel. Touch the Transponder Mode field to select available modes.



Transponder Control

Transponder ID

Touch the Squawk Code Field. Enter the code (for either XPDR 1 or XPDR 2) using the displayed keypad. Touch **ENTER** to confirm selection.

IDENT

Touch **IDENT** to activate the transponder's IDENT function. The key text remains gray and will change to green when IDENT mode is active.



Transponder Mode



Transponder Mode - Green indicates current condition

Transponder Panel Page (Non-GDL 88 Installations with Mode C Transponder)

- Standby** Touch to place transponder in Standby mode. It is still powered, but will not transmit information. STBY displays in the squawk code field.
- Ground** Touch to place transponder in Ground mode. Refer to the documentation provided with your GTX transponder for specific information on this mode of operation.
- On** Touch to turn transponder On for Mode A operation. Will transmit the squawk code when interrogated. ON displays in the squawk code field.
- Altitude Reporting** Touch for Mode C operation. The transponder will be on and will transmit its squawk code and altitude when interrogated. ALT displays in the squawk code field.
- VFR** Touch to set the squawk code to 1200.
- Enable ES** Touch to toggle extended squitter.
- Flight ID** This field is inactive in non-GDL 88 installations.



Touch to arm the anonymous key.

Touch to enter flight ID

Transponder Page (GDL 88 Installations with Mode C Transponder)

- Standby** Touch to place transponder in Standby mode. It is still powered, but will not transmit information. STBY displays in the squawk code field.
- Ground** Touch to place transponder in Ground mode. Mode S interrogations will be allowed. GND displays in the squawk code field.
- On** Touch to turn transponder On for Mode A operation. Will transmit the squawk code when interrogated. ON displays in the squawk code field.
- Altitude Reporting** Touch for Mode C operation. The transponder will be on and will transmit its squawk code and altitude when interrogated. ALT displays in the squawk code field.
- VFR** Touch to set the squawk code to 1200.
- Anonymous** Touch to arm anonymous mode.
- Flight ID** This field is active in GDL 88 installations that have transponders.



NOTE: More detailed descriptions of the transponder panels for all installations can be found in the *GTN 725/750 Pilot's Guide*, P/N 190-01007-03.

Special Squawk Codes

As you change a squawk code, the original code will be sent until you are finished selecting the new code.

The table below lists special squawk codes:

Squawk Code	Description
1200	Default VFR code in the USA
7500	Hijacking
7600	Loss of Communications
7700	Emergency

Special Squawk Codes



NOTE: While 1200 is the default VFR squawk code, the installer can configure any code to the VFR key. This is to support international operations where 1200 may not be used.

MAP



Map



Map Page



Map Menu



Touch to select which overlays are displayed. A green bar indicates the selection is enabled.

Touch to customize how the map, aviation, land, and weather information is displayed on the map page.

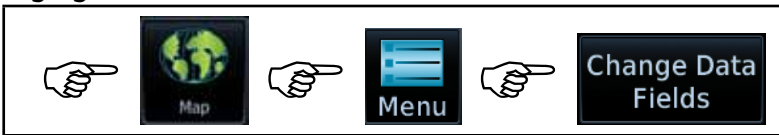
Touch, hold and slide to set how much detail is shown on the map page.

Touch to select which fields are displayed in four corners on Map page.

Touch to restore the map page to the original factory settings.

Map Menu Options Page

Changing NAV Data Fields



Change NAV Data Fields

Changing Data Fields

The data fields located at each of the four corners of the Map page can be configured to display any combination of four different navigation parameters. To exit without changes to the Map page, touch **Cancel**.



Change NAV Data Field Mode

BRG - Bearing to Current Waypoint
 DIS - Distance to Current Waypoint
 DIS to Dest - Distance to Destination
 DTK - Desired Track
 ESA - Enroute Safe Altitude
 ETA - Estimated Time of Arrival
 ETA at Dest - ETA at Destination
 ETE - Estimated Time Enroute
 ETE to Dest - ETE to Destination
 Fuel Flow - Total Fuel Flow
 Generic Timer - Timers (Utilities)
 GS - GPS Ground Speed

GSL - GPS Altitude
 MSA - Minimum Safe Altitude
 OAT (static) - Static Air Temperature
 OAT (total) - Total Air Temperature
 Time - Current Time
 TKE - Track Angle Error
 Trip Timer - Timers (Utilities)
 TRK - Track
 VSR - Vertical Speed Required
 Wind - Wind Speed and Direction
 XTK - Cross Track Error
 OFF - Do Not Display Data Field

Selections Available for NAV Data Fields

Pan Mode



NOTE: Annunciations for TIS Traffic Coasting or Traffic Removed are not present while in pan mode. For more information refer to page 11.

To enter Pan Mode, touch the map anywhere on the Map page. Drag your finger across the map to move it as desired. In Pan Mode, touch any symbol on the map to highlight, then touch the information key to display any available information related to that symbol. Touch the **Next** key to cycle to other waypoints close to the cursor.

User Waypoints

Touch any location on the map that is not an existing waypoint to create a user waypoint. The **Waypoint Info** key will display, “Create Waypoint” and will display the “Create User Waypoint” page. See the “Waypoint Info, Creating User Waypoint” section.



To exit Pan Mode, touch the **Back** key. To enter or edit a flight plan, touch the **Graphically Edit FPL** key.

Creating (or Editing) a Flight Plan in Pan Mode

While in Pan Mode, touch the **Graphically Edit FPL** key to add/remove waypoints and/or alter a course line in an existing flight plan. You can also enter or edit an existing flight plan by touching the Flight Plan key on the home page. See the Flight Plan section of this guide.



NOTE: It is not possible to graphically add an intermediate waypoint between the current position and a direct-to waypoint unless that waypoint is in the flight plan. Garmin recommends deleting any flight plan prior to graphically editing a direct-to waypoint.



Edit Flight Plan

On the Map page, enter Pan Mode by touching the screen. Touch the **Graphically Edit FPL** key. Touch any waypoint that you want to be part of your flight plan. You also can touch and drag a flight plan line to a waypoint. Should you make an error, touch the **Undo** key. The **Undo** key will reverse up to the last nine consecutive edits. When finished, touch the **Done** key to save your changes. Touch **Cancel** to leave the page without making any changes to the flight plan.



Touch to exit page without changes to flight plan.

Flight Plan on Map Page

TRAFFIC



Traffic



NOTE: Depending on which traffic device is installed and how it is configured, the pages will be different that what is shown. Refer to the GTN 725/750 Pilot's Guide, P/N 190-01007-03, for more information.



Traffic Page

Traffic System Status Annunciations

For the symbol of the annunciations, refer to the section, “Symbols.”

TIS Failure Annunciations

Traffic Page Annunciation	Description
No Data	Data is not being received from the transponder.
Failed	The transponder has failed.
Unavailable	TIS is unavailable or out of range.

TIS Traffic Status Annunciations

Traffic Status Banner Annunciation	Description
Traffic Coast 9 SEC	The displayed data is not current (6 to 12 seconds since last message). The quality of displayed traffic information is reduced when this message is displayed.
Traffic Removed	Traffic is removed because it is too old for coasting (12 to 60 seconds since last message). Traffic may exist within the selected display range, but it is not displayed.

TAS Traffic Status Annunciations

Traffic Status Banner Annunciation	Description
TA 6.0 + 03 ↓	System cannot determine bearing of Traffic Advisory. Annunciation indicates distance in NM, altitude separation in hundreds of feet, and altitude trend arrow (climbing/descending).
Failed	Traffic data has failed.
Data Fail	Data is being received from the transponder, but a failure is detected in the data stream.
No Data	Traffic has not been detected.

TCAS - System Menu

Touch the **Menu** key to view the Traffic menu.



Traffic Menu

Key	Description
ADS-B Status	Displays the status of the ADS-B.
TCAS Status	Touch to set TCAS into operating mode or standby mode.
Test	The Test key places the traffic system in test mode and also tests the communication between the GTN and the configured traffic device.
Motion Vector	Touch to set the type of motion vector. Selections: Absolute, Relative, Off
Vector Duration	Touch to set the amount of time the motion vector remains. Selections: 30 sec, 1 min, 2 min, 5 min.
Altitude Filter	Touch to select what traffic to display. Selections: Below, Normal, Above, Unrestricted

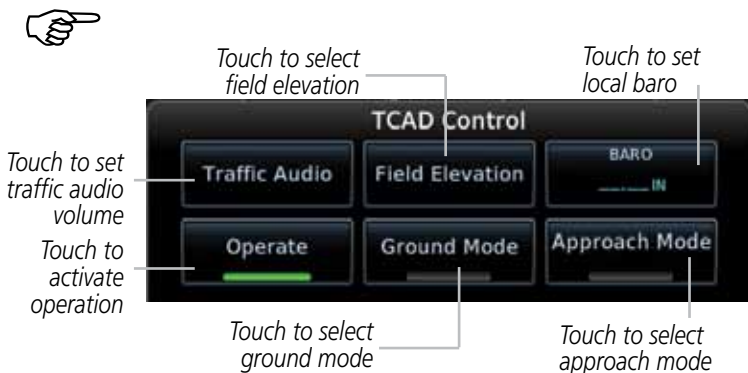
Altitude Filter

The table below defines the displayed traffic ranges for each altitude filter setting.

Altitude Filter	Displayed Traffic Range
Below	-9900 ft to 2700 ft
Normal	-2700 ft to 2700 ft
Above	-2700 ft to 9900 ft
Unrestricted	All Traffic Shown

TCAD - System Menu

The TCAD Control Menu allows control over the settings for the TCAD Traffic display.



TCAD Traffic and Control Menu Control

TERRAIN



NOTE: Features may vary, depending on your configuration. For terrain scale, refer to the "Symbols" section at the end of this guide.



Terrain

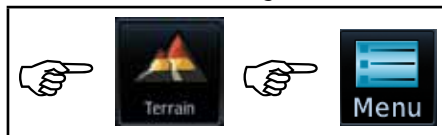
Active Flight Plan



GPS
Computed
Altitude

Legend

Terrain Page



Terrain Menu

Touch to display terrain as 360° ring or 120° arc.

Touch to display the active flight plan.



Touch to display the terrain legend.

Touch to suppress TAWS alerts.

Touch to test the TAWS.

TAWS Terrain Menu Options

Touch to display terrain as a 360° ring or a 120° arc.

Touch to display the active flight plan.

Touch to display the terrain legend.



Touch to acknowledge alert.

Touch to toggle Reduce Protection (RP) mode on and off.

Touch to deactivate aural and visual alerts.

Touch to test HTAWS system.

HTAWS Terrain Menu Options

WEATHER



NOTE: Features may vary, depending on your configuration. Refer to the GTN 725/750 Pilot's Guide, P/N 190-01007-03 for more information.



Weather



SiriusXM Weather Menu

SiriusXM® Weather (Optional)

Weather

Touch NEXRAD key to select Off, US, or Canada NEXRAD



Touch keys to select weather product. Green bar indicates selected product.

Touch to select the weather overlay map orientation.

Touch to display the legend.

SiriusXM Weather Menu Options

FIS-B Weather



FIS-B Weather Menu

Touch NEXRAD key to select Off, US, or Canada NEXRAD

Touch keys to select weather product. Green bar indicates selected product.

Touch to select the weather overlay map orientation.

Touch to display the legend.

FIS-B Weather Menu Options

Connex Weather (Optional)



Connex Weather Menu



Connex Menu Options

Key	Description
PRECIP	Touch to toggle the display of precipitation.
Lightning	Touch to toggle the display of lightning.
IR Satellite	Touch to toggle the display of IR satellite information.
METAR	Touch to toggle the display of METARs.
PIREP	Touch to toggle the display of PIREPs.
Winds Aloft	Touch to toggle the display of Winds Aloft.
SIGMET/AIRMET	Touch to toggle the display of SIGMETs/AIRMETs.
Connex Settings	Touch to set region of coverage, data request and to view the status of the datalink.
Orientation	Touch to display map orientation options. North Up, Track Up, or Heading Up.
Legend	Touch to display the legend of weather information.

Radar (Optional)



WARNING: Begin transmitting only when it is safe to do so. When transmitting while the aircraft is on the ground, no personnel or objects should be within 11 feet of the antenna.



NOTE: Not all features are available on all radar systems. Refer to the GTN 725/750 Pilot's Guide, P/N 190-01007-03 for more information.



Radar Menu



GWX 70 Weather Radar Menu Options

Key	Description
Turbulence Detection	Touch to enable turbulence detection.
GCS	Touch to enable ground clutter suppression.
ACT	Touch to enable altitude compensated tilt.
WATCH Shading	Touch to enable WATCH shading.
Weather Alert	Touch to enable weather alerts.
Stabilize	Touch to enable antenna stabilization.



GWX 68 Weather Radar Menu

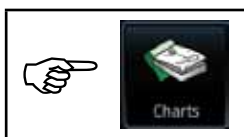
GWX 68 Weather Radar Menu Options

Key	Description
WATCH Shading	Touch to enable WATCH shading.
Weather Alert	Touch to enable weather alerts.
Stabilize	Touch to enable antenna stabilization.



NOTE: *Ground Clutter Suppression (GCS) and Turbulence Detection are only supported for 12" or larger RADAR antennas. Turbulence Detection is only supported out to a range of 40 NM and is disabled at display ranges greater than 160 NM.*

CHARTS



Charts

Chart Information



Chart currently displayed. Touch to enter new airport.

Touch to select specific chart.

Touch to view information about current airport.

Touch to view approach procedures.

Touch to view arrival procedures.

Touch to view airport information such as general info, preview, procedures, runways, frequencies, WX Data, and Chart NOTAMs.

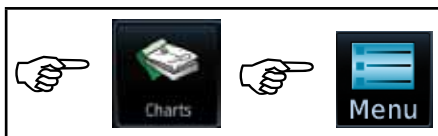
Touch to display chart in full screen.

Touch to view departure procedures.

Touch to zoom in or out on chart.

Charts Page

Menu Options



Touch to select chart information. Selections include All, Header, Plan, Profile and Minimums.

Shows an inverted color view of the display that enhances low light viewing.

Chart Options Menu

FLIGHT PLAN



Flight Plan

Creating a Flight Plan

On the Flight Plan page, touch “Add Waypoint” to display an alphanumeric keypad. Type in the airport identifier and touch **Enter**. If unknown, touch the **Find** key to search. To exit without making changes to the flight plan, touch the **Cancel** key.



Keypad Entry



Sample Flight Plan

Flight Plan Menu



Flight Plan Menu

The screenshot shows the 'Flight Plan Menu' with the following options and callouts:

- Store**: Touch to store flight plan.
- Delete**: Touch to delete current flight plan.
- Parallel Track**: Touch to set up parallel track for flight plan.
- Invert**: Touch to reverse currently loaded flight plan.
- Edit Data Fields**: Touch to edit fields shown on flight plan page.
- Catalog**: Touch to view previously stored flight plans.
- Preview**: Touch to preview flight plan.

Flight Plan Menu Page



Flight Plan Catalog

The screenshot shows the 'Route Options for Flight Plans' menu with the following options and callouts:

- Activate**: Touch to activate a flight plan.
- Invert & Activate**: Touch to activate and reverse flight plan.
- Preview**: Touch to review flight plan prior to loading.
- Edit**: Touch to edit flight plan.
- Copy**: Touch to copy flight plan.
- Delete**: Touch to delete flight plan.

Route Options for Flight Plans

Airways

On the Active Flight Plan page, touch **Add Waypoint** and select a VOR. For example, UBG.



Touch the waypoint and the Waypoint Options menu is displayed.



Load Airway: Touch entry waypoint to select available airways and exit waypoints.

Load: Touch to load selected airway into flight plan.

Cancel: Touch to exit without changes to flight plan.

Remove Airway: Touch to remove airway from flight plan. Touch **Preview** (if desired) to review selected airways.



Touch to load selected airway to flight plan.

Airway Selection for Waypoint

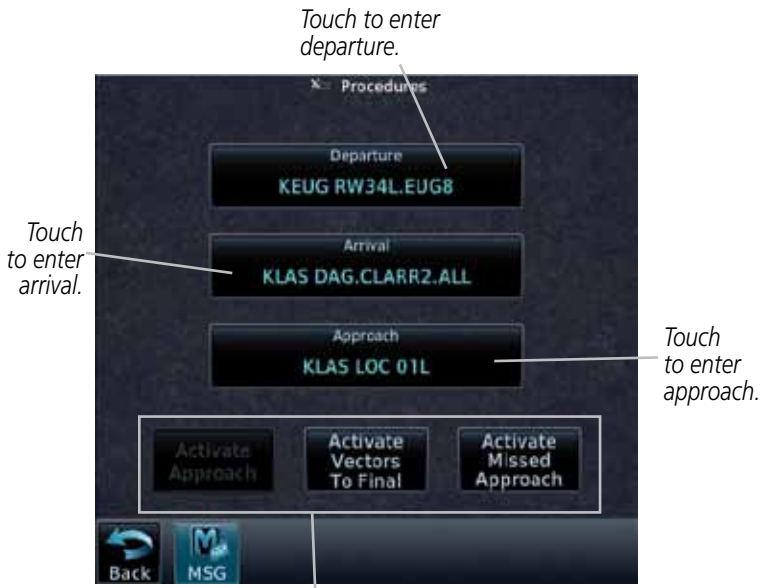
PROCEDURES



Procedures

Departures, Arrivals, and Approaches

On the Procedures (PROC) page, select approach, arrival, and departure procedures.



Touch to Select - Available Approach Selection

Procedures (PROC) Page

Flying the Missed Approach

In event of a missed approach, the GTN 7XX unit continues to give guidance along an extension of the final course segment (FAF to MAP) until you manually initiate the missed approach procedure (as mentioned in reference to the “SUSP” advisory).



NOTE: *If the unit is not configured for a CDI key, then the “Activate GPS missed approach” will only resume automatic waypoint sequencing. The user must switch to GPS navigation, if desired, by using their external source selection method (this is typical an EFIS system).*

1. When the MAP is reached, a pop-up will appear.



Pop-Up Upon Reaching the MAP

2. Touch the **Remain Suspended** key to continue with sequencing suspended or touch **Activate GPS Missed Approach** for guidance to the Missed Approach Hold Point.

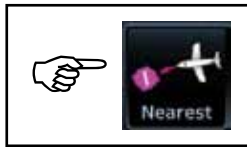
Flying an Approach with a Hold

The Flight Plan Page displays a timer or distance, as appropriate, during the holding pattern. Use this timer or distance to fly the outbound portion of the holding pattern. The holding pattern is displayed on the Map Page and indicated as the active leg on the Active Flight Plan pages.

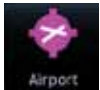


NOTE: *If you need to lose extra altitude or speed by going around the holding pattern again, touch **SUSP** to manually suspend waypoint sequencing BEFORE crossing the holding waypoint the second time. If you’ve already passed this waypoint, re-activate the holding pattern leg.*

NEAREST



Nearest Page



Touch to display the bearing, distance, approach/runway information of the nearest airport.



Touch to display the bearing and distance to the nearest intersection.



Touch to display the bearing, distance, and frequency of the nearest VOR.



Touch to display the bearing, distance, and frequency of the nearest NDB.



Touch to display the bearing and distance to a user created waypoint.



Touch to display the bearing and distance of the nearest airspace along your route.



Touch to display the bearing, distance, and frequency of the nearest ARTCC.



Touch to display the bearing, distance, and frequency of the nearest Flight Service Station.



Touch to display the bearing, distance, and frequency of the nearest weather station.

WAYPOINT INFO



Waypoint Info



Waypoint Info Page



Airport

Touch to display the map of an airport, procedures, runways, frequencies, weather, and any NOTAMs.



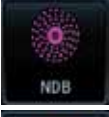
Intersection

Touch to display the distance and bearing, latitude and longitude, location and the nearest VOR.



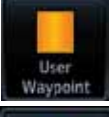
VOR

Touch to display the distance and bearing, latitude and longitude, location, frequency, nearest airport, VOR Class, and magnetic variation.



NDB

Touch to display the distance and bearing, latitude and longitude, location, frequency, nearest airport, and marker description.



User Waypoint

Touch to display the distance, bearing, and reference waypoint information for created waypoints.



Create Waypoint

Touch to create permanent or temporary waypoints. Items such as user identifier, comments, position type, reference waypoint, radial, and distance can be configured.

Creating a User Waypoint



Create Waypoint

1. Touch the **Create Waypoint** icon. If there are no user waypoints defined, the prompt, "No User Waypoints exist. Create User Waypoint?" will be displayed. Touch **OK** to continue.
2. Enter the desired name (identifier) and position, or reference another waypoint by radial and distance. The identifier can be a maximum of 6 characters and the comment can be a maximum of 24 characters.
3. Touch **Create** to confirm your entry.



Create User Waypoint Page

SERVICES



Services



Touch to activate phone.

Touch to review position report settings.

Touch to send an SMS text.

Touch to listen to music.

Touch to view your contacts.

Services Page

Phone



Phone Status

Touch to enter phone number.

Touch to place a call.

Touch to decrease volume.

Touch to increase volume.

Touch to end call.

Touch to select type of suppression. Choices are Off, On, On During APR/MAPR/TERM.

Phone Page

Placing a Call

1. Touch the **Phone** key to display the phone page.
2. Touch the **Phone Number** key to display a phone keypad.
3. Touch the **Contacts** key to enter a saved phone number or enter the phone number using the keypad. Touch **Enter**.
4. Touch the **Call** key.
5. Touch the **End Call** key when finished.

SMS Text

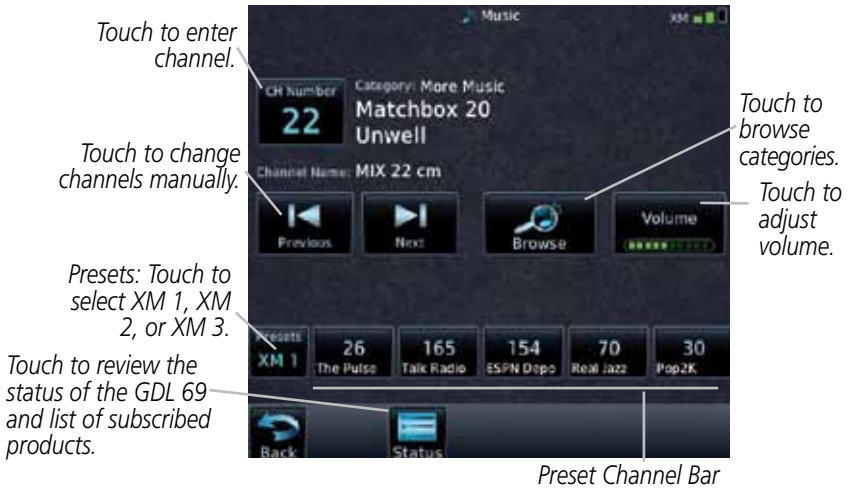


SMS Text Message Page

Sending an SMS Text

1. Touch the **SMS Text** key to display the SMS text page.
2. Touch the **To** window to select recipient's email address or phone number.
3. Touch the **Compose** key to bring up the keypad.
4. When finished, touch the **Send** key to send the message.

Music



Music Page

Selecting a Channel

1. Touch the **CH Number** key to display a numeric keypad.
2. Touch numbers of the channel number.
3. Touch **Enter** to accept channel.

Adding Channels to Presets

1. Touch the **Presets** key. The choices are XM1, XM2, and XM3.
2. Touch the **Channel** key and enter in the desired channel.
3. Touch and hold the key of the preset where you want to store the channel for three seconds. The key in the Preset Channel Bar will store the channel.
4. Follow the same steps to override a currently stored channel. To clear presets, change Channel to 0 and touch all presets until all read 0.

Position Reports



Position Reports Page

Position Reporting

1. Touch the **Position Reports** key.
2. Touch the **Automatic Reporting** key to enable reporting of position automatically.
3. After automatic reporting is enabled, touch the **Report Period** key to display the keypad and enter the frequency of reporting.
4. Touch the **Enter** key to confirm your selection.

Contacts

Touch to add name, phone number, and email address of a contact.



Touch to search for a previously entered contact.

Touch to display current list of contacts.

Contacts Page

Adding a Contact

1. Touch the **Add** key to display the Add Contact menu.
2. Touch the **Name** key to enter the contact name (required).
3. Touch the **Phone Number** key to enter the contact phone number (optional).
4. Touch the **Email Address** key to enter the contact email address (optional).
5. Touch the **Save Contact** key to save entry to list. The list can hold 250 entries.

Editing a Contact

1. In the contact list, touch the contact that you wish to edit.
2. Touch the **Edit** key to display the current contact formation.
3. Touch the information that you want to edit. When you're finished, touch **Save Contact** key. Touch the **Back** key at any time to leave the contact unchanged.

UTILITIES



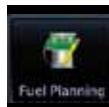
Utilities



Utilities Page



Touch to enter VCalc profile. See, "VCalc Profile" for more information.



Touch to view fuel information about the currently loaded flight plan.



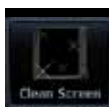
Touch to access timers. Generic Timer (count up or down), Flight Timer (set trigger to In Air or Power On), and Departure Time.



Touch to view calculations of density altitude, true airspeed, and wind.



Touch to see the integrity of GPS satellite coverage at a particular waypoint at a particular time.



Touch to safely clean the screen. Press the HOME key to exit cleaning mode.



Touch to view trip information about the currently loaded flight plan.

Vertical Calculator (VCALC)

The VCALC page uses GPS position, GPS computed altitude, and pilot-selected parameters to calculate and display the time to begin descent and vertical speed required to reach a desired altitude above a designated waypoint offset. The screenshot below is a sample profile for an aircraft to be at 2000 feet MSL 4 NM before KPBI. Since the vertical speed is set to 400 feet per minute, the descent needs to begin in 2 minutes and 12 seconds. At the present location, a vertical speed rate of -328 feet per minute is required to reach the target. There are no menu options for the VCALC Profile page.



VCALC Key

Touch to set target altitude.

Touch to set target altitude.

Touch to enter distance offset from target waypoint.

Touch to select Before or After waypoint.

Status of Profile



Touch to enter vertical speed.

Touch to select waypoint.

Vertical Speed Required

Touch to display VCALC messages in message list.

VCALC Page

NOTE: The Altitude Type key will not be available when the VCALC target waypoint does not have valid altitude data.



SYSTEM



System



System Page



Touch to display serial number, system ID, version information, and database information.



Touch to display the status of GPS reception.



Touch to view the status of any external LRUs that are connected to the GTN.



Touch to view the setup of the CDI, Date/Time, Nearest Airport Criteria, and COM Channel Spacing, and Crossfilled Items.



Touch to customize alerts of arrival, destination proximity, airspace altitude buffer, and entry into selected airspaces.



Touch to customize the units of measurement for NAV Angle, Temperature, and Fuel.



Touch to customize the volume of the response sound when touching the screen.



Touch to customize the ownership symbol.



Touch to customize the level of backlighting.

Crossfill

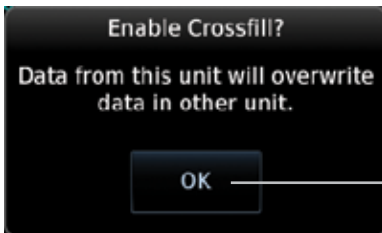
Dual units may be interfaced to crossfill information between the two units. This option will not be available unless dual units are configured.

The following data is always crossfilled, GTN-to-GTN:

- User waypoints
- Flight plan catalog
- Alerts (Pop-up acknowledgement for traffic, missed approach waypoint, and altitude leg)
- External sensors (transponder status and commands, synchro heading)
- System setup
 - Favorite NAV frequencies
 - Date/Time convention
 - Nearest airport criteria
 - Units (NAV angle, Distance/Speed, etc.)
 - Favorite COM frequencies
 - Ownship icon
 - CDI Scale setting
 - ILS CDI Capture setting

This data is crossfilled only if crossfill is turned on by the pilot:

- Active navigation (flight plan)
 1. While viewing the System Setup page, touch the **Crossfill** key to toggle between Enabled and Disabled Crossfill.
 2. When Crossfill is about to be enabled, you will be prompted to note that data will be overwritten in the other unit. Touch **OK** to enable Crossfill or touch **Cancel** to return to the System Setup page without enabling Crossfill.

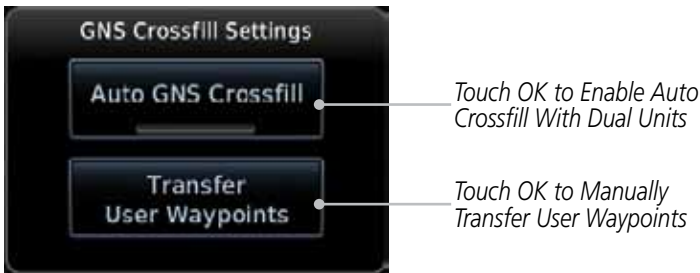


Touch OK to enable crossfill with dual units.

Confirming Crossfill Selection

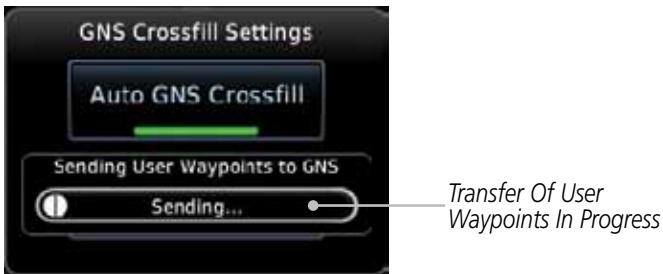
GTN-GNS Crossfilling:

- GTN to GNS – Active flight plans, active direct-to, User waypoints
 - GNS to GTN – User waypoints
1. While viewing the System Setup page, touch the **GNS Crossfill Settings** key to reach the GNS Crossfill settings.



GTN-GNS Crossfill Selection


















2. Touch **Auto GNS Crossfill** to enable Crossfill and send the Active Flight Plans and the active Direct-To course to the GNS unit.
3. Touch the Transfer User Waypoints key to transfer the User Waypoints from the GTN unit to the connected GNS unit.



GTN-GNS Crossfill

SYMBOLS

Map Symbols




Symbol	Description
	Unknown Airport
	Non-towered, Non-serviced Airport
	Towered, Non-serviced Airport
	Non-towered, Serviced Airport
	Towered, Serviced Airport
	Soft Surface, Serviced Airport
	Soft Surface, Non-serviced Airport
	Private Airport
	Heliport
	Intersection
	LOM (compass locator at outer marker)
	NDB (Non-directional Radio Beacon)
	VOR
	VOR/DME
	ILS/DME or DME-only
	VORTAC
	TACAN

SafeTaxi™ Symbols





Symbol	Description
	Helipad
	Airport Beacon
	Under Construction Zones
	Unpaved Parking Areas

Traffic Symbols













TIS

TIS Symbol	Description
	Non-Threat Traffic
	Traffic Advisory (TA)
	Traffic Advisory Off Scale







TAS

TAS Symbol	Description
	Non-Threat Traffic (intruder is beyond 5 NM and greater than 1200 ft vertical separation)
	Proximity Advisory (PA) (intruder is within 5 NM and less than 1200 ft vertical separation)
	Traffic Advisory (TA) (closing rate, distance, and vertical separation meet TA criteria)
	Traffic Advisory Off Scale





ADS-B

Symbol	Description
	Basic Non-Directional Traffic
	Basic Directional Traffic
	Basic Off-scale Selected Traffic
	Proximate Non-Directional Traffic
	Proximate Directional Traffic
	Proximate Off-scale Selected Traffic
	Non-Directional Alerted Traffic
	Off-Scale Non-Directional Alerted Traffic
	Directional Alerted Traffic
	Off-Scale Directional Alerted Traffic
	Non-Directional Surface Vehicle
	Directional Surface Vehicle

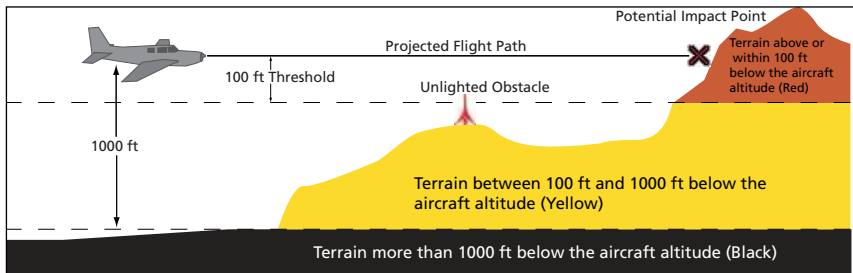
TCAD

Symbol		Description
Imminent Traffic (Traffic within ± 500 feet AND 1.0 NM; OR no altitude AND within 1.0 NM)	Non-Imminent Traffic	
		Traffic Closing Vertically
		Traffic Diverging Vertically
		Traffic not Closing or Diverging Vertically

Terrain Obstacle Symbols

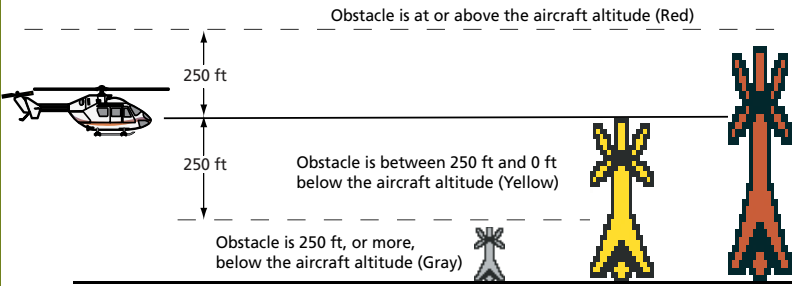
Unlighted Obstacle (Height is less than 1000 ft AGL)	Lighted Obstacle (Height is less than 1000 ft AGL)	Unlighted Obstacle (Height is greater than 1000 ft AGL)	Lighted Obstacle (Height is greater than 1000 ft AGL)
			

Obstacle Altitude/Color Correlation

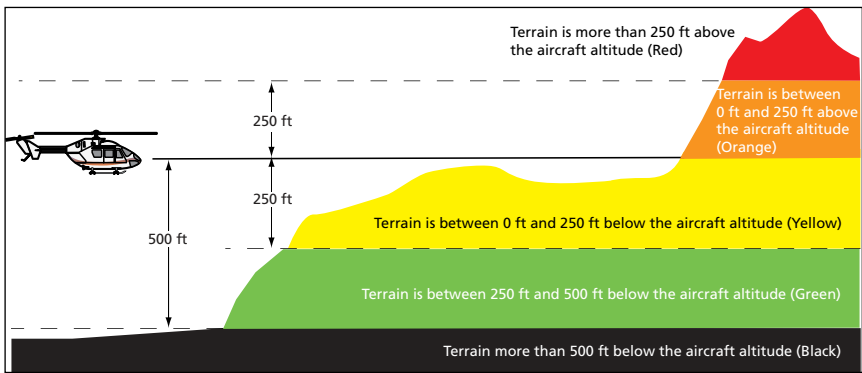


Terrain Altitude/Color Correlation

HTAWS Obstacle Symbols



HTAWS Obstacle Altitude Correlation






















HTAWS Altitude/Color Correlation

Map Tool Bar Symbols





Symbol	Description
	Terrain Proximity Enabled and Available Indicator
	Terrain Proximity Enabled and Not Available Indicator
	Traffic Enabled and Available Indicator
	Traffic Enabled and Not Available Indicator
	Stormscope Enabled
	Within coverage of a TIS-B ground station when connected to a GDL 88
	Not within coverage of a TIS-B ground station when connected to a GDL 88

Miscellaneous Symbols

Symbol	Description
	Default Aircraft (ownership) (Low-Wing Prop)
	High-Wing Prop
	Kit Plane
	Single-Engine Jet
	Twin-Engine Prop
	Single-Engine Jet
	Business Jet
	2-Blade Rotorcraft
	3-Blade Rotorcraft
	4-Blade Rotorcraft
	Non-Directional Ownship Signal
	Parallel TrackWaypoint
	Restricted/Prohibited/Warning/Alert
	TFR (Temporary Flight Restrictions)
	MOA
	Class B Airspace

Symbol	Description
	Class C Airspace
	Class D Airspace
	User Waypoint

Stormscope® Symbols

Symbol	Time Since Strike (Seconds)
	6
	60
	120
	180

Basemap Symbols

Symbol	Description
	Interstate Highway
	State Highway
	US Highway
	National Highway - 2-digit drawn inside
	Small City or Town
	Medium City
	Large City

MESSAGES

Message	Description	Action
ABORT APPROACH- GPS approach no longer available.	This message is triggered outside the MAP if the GTN system can no longer provide approach level of service. Vertical guidance will be removed from the external CDI/HSI display.	Initiate a climb to the MSA or other published safe altitude, abort the approach, and execute a non-GPS based approach.
AIRSPACE ALERT- Inside airspace.	The aircraft inside an airspace type for which alerts are configured.	No action is necessary; message is informational only.
AIRSPACE ALERT- Airspace within 2 nm and entry in less than 10 minutes.	The aircraft is within 2 nm and predicted to enter an airspace type, within 10 minutes, for which alerts are configured.	No action is necessary; message is informational only.
AIRSPACE ALERT- Airspace entry in less than 10 minutes.	The aircraft is predicted to enter an airspace type, within 10 minutes, for which alerts are configured.	No action is necessary; message is informational only.
AIRSPACE ALERT- Within 2 nm of airspace.	The aircraft is within 2 nm of an airspace type for which alerts are configured.	No action is necessary; message is informational only.
APR GUIDANCE AVAILABLE- Touch "Enable APR Output" before selecting APR on autopilot.	GTN is configured for KAP140/KFC225 autopilot, and approach guidance is now available.	Touch the "Enable APR Output" key on the GTN, this will cause the autopilot to go into ROL mode. Engage the autopilot into approach mode.

Message	Description	Action
APPROACH DOWNGRADE- Approach downgraded. Use LNAV minima.	Approach has been downgraded from LPV or LNAV/VNAV, to an LNAV approach. Vertical guidance will be removed from the external CDI/HSI display.	Continue to fly the approach using published LNAV minimums.
APPROACH NOT ACTIVE- Do not continue GPS approach.	GPS approach could not transition to active (e.g., the GTN is on an approach and did not have the required HPL/VPL to get into at least LNAV, so is still in TERM).	Abort the approach, and execute a non-GPS based approach.
AUDIO PANEL- Audio panel needs service.	The GMA 35 is reporting to the GTN that it needs service. The audio panel may continue to function.	Contact dealer for service.
AUDIO PANEL- Audio panel is inoperative or connection to GTN is lost.	GTN is configured for Garmin audio panel control (GMA 35) and the GTN cannot communicate with the GMA 35. No control of the GMA 35 will be possible.	Remove power from the GMA 35 audio panel by pulling the circuit breaker labeled, "Audio". The pilot will be able to communicate with the COM 2 radio. Contact dealer for service.
CDI SOURCE- Select appropriate CDI source for approach.	Aircraft is on a GPS approach but CDI is set to VLOC, or aircraft is on VLOC approach and CDI is set to GPS and aircraft is less than 2 nm from the FAF.	Select the appropriate CDI source for approach.

Message	Description	Action
CDI/HSI FLAG- Main lateral/vertical flag on CDI/HSI is inoperative.	Main Lateral Superflag or Main Vertical Superflag output has been turned off due to an over-current condition.	Verify course guidance is valid and correct by crosschecking with the GTN on-screen CDI and other navigational equipment. Contact dealer for service.
COM RADIO- COM radio needs service.	COM radio is reporting that it needs service. The COM radio may continue to function.	Contact dealer for service.
COM RADIO- COM radio may be inoperative.	COM radio is not communicating properly with the system.	Press and hold the volume knob or the external COM remote transfer (COM RMT XFR) switch, if installed – this will force the COM radio to 121.5 MHz. Contact dealer for service.
COM RADIO- COM overtemp or undervoltage. Reducing transmitter power.	COM radio is in overtemp or undervoltage mode and transmitting power has been reduced to prevent damage to the COM radio. Radio range will be reduced.	Decrease length of COM transmissions, decrease cabin temperature and increase cabin airflow (especially near the GTN). Check aircraft voltage and reduce electrical load as necessary. Contact dealer for service if this message persists.
COM RADIO- COM locked to 121.5 MHz. Hold remote COM transfer key to exit.	COM radio is locked to 121.5 MHz.	The external COM remote transfer (COM RMT XFR) switch has been held and the COM radio is tuned to 121.5. To exit this mode, hold the COM remote transfer (COM RMT XFR) switch for two seconds.

Message	Description	Action
CONFIGURATION-Terrain/TAWS configuration is invalid. GTN needs service.	TAWS is inoperative due to a configuration problem with the GTN. This message will be accompanied by a TER FAIL annunciation.	Contact dealer for service.
CONFIGURATION MODULE-GTN configuration module needs service.	GTN cannot communicate with its configuration module. The GTN may still have a valid configuration.	Contact dealer for service.
COOLING-GTN overtemp. Reducing backlight brightness.	Backlight brightness has been reduced due to high display temperatures. The backlight level will remain high enough to be visible in daylight conditions.	Decrease cabin temperature and increase cabin airflow (especially near the GTN). Contact dealer for service if this message persists.
COOLING FAN-The cooling fan has failed.	GTN cooling fan is powered, but it is not turning at the desired RPM.	Decrease cabin temperature and increase cabin airflow (especially near the GTN) to prevent damage to the unit. Contact dealer for service.
CROSSFILL ERROR-GTN software mismatch. See CRG for crossfilled items.	Crossfill is configured "on" but is not working due to software mismatch.	See list of crossfilled items listed in System section that will no longer be crossfilled. Contact dealer for service and to have software versions updated.

Message	Description	Action
CROSSFILL ERROR- Crossfill is inoperative. See CRG for crossfilled items.	An error was detected during unit-to-unit communication of data. This can be caused by problems with HSDB wiring or by either GTN needing service. See the items listed in the System section of this manual for crossfilled items.	Start both GTNs in Configuration Mode and ensure that both GTNs are configured for crossfill. Contact dealer for service.
CROSSFILL ERROR- GTN Navigation DB mismatch. See CRG for crossfilled items.	The navigation databases do not match between GTNs resulting in a loss of communication between two units.	Check the specified database version of both GTNs and ensure it is up-to-date. Updated the specified database if needed.
CROSSFILL STATUS- Crossfill is turned off.	Crossfilled is turned off.	No action.
DATABASE- Chart database valid until [DATE].	The GTN is configured for ChartView or FliteCharts and the chart database has or is about to expire.	Verify chart database expiration date on the System – System Status page. Update chart database if necessary for operations.
DATABASE- A procedure has been modified in a cataloged flight plan.	A new database update caused a procedure to be truncated because the flight plan now has too many waypoints or removed a procedure because it no longer exists in the database.	Verify stored cataloged flight plans and procedures. Modify stored flight plans and procedures as necessary to include the current procedures by re-loading those procedures to the stored flight plan routes.

Message	Description	Action
DATABASE- Verify user-modified procedures in stored flight plans are correct.	A stored flight plan contains procedures that have been manually updated, and a navigation database update has occurred.	Verify that the user-modified procedures in stored flight plans are correct.
DATABASE- Verify airways in stored flight plans are correct.	A stored flight plan contains an airway that is no longer consistent with the current navigation database.	Verify that the airways in stored flight plans are correct. Modify stored flight plans as necessary to include the current airways by re-loading those airways to the stored flight plan routes.
DATABASE- Terrain or Obstacle database not available.	The Terrain or Obstacle database is missing or corrupt.	Re-load these databases on the external SD memory card.
DATABASE- Terrain display unavailable for current location.	The aircraft is outside the terrain database coverage area.	Terrain and TAWS functions will be unavailable. If terrain coverage is desired in the area, load appropriate coverage area on the external SD memory card.
DATA CARD ERROR- SD card is invalid or failed.	External SD memory card has an error and the unit is not able to read the databases.	ChartView, FlightCharts, and Terrain databases will not be accessible by the unit. Contact dealer for service.
DATA CARD REMOVED- Reinsert SD card.	External SD memory card was removed.	Reinsert SD memory card.

Message	Description	Action
DATALINK-GDL 69 is inoperative or connection to GTN is lost.	The GTN is configured for a Garmin datalink (GDL 69 or 69A) and the GTN cannot communicate with the datalink. Data from the datalink will not be available.	Contact dealer for service.
DATALINK-GDL 88 is inoperative or connection to GTN is lost.	The GTN is configured for a Garmin datalink (GDL 88) and the GTN cannot communicate with the datalink. Data from the datalink will not be available.	Contact dealer for service.
DATALINK-GDL 88 ADS-B failure. Unable to transmit ADS-B messages.	GDL 88 is not able to transmit an ADS-B message due to a failure with the GDL 88 system or antenna(s).	Contact dealer for service.
DATALINK-GDL 88 ADS-B fault.	The GDL 88 has detected a fault with one of the GDL 88 UAT/1090 antennas.	Contact dealer for service.
DATALINK-ADS-B fault: UAT receiver.	The GDL 88 has detected a UAT receiver fault.	Contact dealer for service.
DATALINK-ADS-B fault: 1090 receiver.	The GDL 88 has detected a 1090 receiver fault.	Contact dealer for service.
DATALINK-GDL 88 ADS-B not transmitting position. Check GPS devices.	The GDL 88 has detected a position input fault.	Contact dealer for service.

Message	Description	Action
DATALINK-GDL 88 control panel input fault. Check transponder is in correct mode.	The GDL 88 has lost communication with the transponder.	Contact dealer for service.
DATALINK-GDL 88 ADS-B fault. Pressure altitude source inoperative or connection lost.	The GDL 88 has lost communication with the pressure altitude source.	Contact dealer for service.
DATALINK-GDL 88 ADS-B traffic has failed.	GDL 88 may have lost GPS position. The GDL 88 has detected an internal failure.	Contact dealer for service.
DATALINK-GDL 88 CSA failure.	The GDL 88 is reporting to the GTN that the CSA application has failed. Traffic alerting on ADS-B traffic is unavailable.	Ensure the aircraft has a clear view of the sky. If the problem persists, contact dealer for service.
DATALINK-GDL 88 external traffic system inoperative or connection lost.	The GDL 88 has detected a TAS/TCAS input fault.	Contact dealer for service.
DATALINK-GDL 88 external traffic system has a low battery.	The GDL 88 is reporting that the external traffic system has a low battery.	Contact dealer for service.
DATALINK-GDL 88 configuration module needs service.	The GDL 88 has detected a configuration module fault.	Contact dealer for service.
DATALINK-GDL 88 needs service.	GDL 88 has detected an internal fault.	Contact dealer for service.

Message	Description	Action
<p>DATALINK-GSR 56 is inoperative or connection to GTN is lost.</p>	<p>The GTN is configured for a Garmin GSR 56 and the GTN cannot communicate with the GSR 56. GSR Weather, Position Reporting, and Phone Services will be unavailable.</p>	<p>Close the GSR 56 circuit breaker and ensure the GSR 56 is receiving power. Contact dealer for service.</p>
<p>DATALINK-GSR 56 data services inoperative; registration required.</p>	<p>The GSR 56 is not registered. GSR Weather, Position Reporting, and Phone Services will be unavailable.</p>	<p>Contact dealer for service.</p>
<p>DATA LOST-Pilot stored data was lost. Recheck settings.</p>	<p>User settings such as map detail level, NAV range ring on/off, traffic overlay on/off, and alert settings have been lost.</p>	<p>Recheck settings.</p>
<p>DATA SOURCE-Pressure altitude source inoperative or connection to GTN lost.</p>	<p>The GTN is configured to receive pressure altitude but is not receiving it from any source.</p>	<p>Leg types requiring an altitude source will no longer automatically sequence. Contact dealer for service.</p>
<p>DATA SOURCE-Heading source inoperative or connection to GTN lost.</p>	<p>The GTN is configured to receive heading information but is not receiving it from any source.</p>	<p>Heading up map displays will not be available. Contact dealer for service.</p>
<p>DATA SOURCE-Radar Altimeter source inoperative or connection to GTN lost.</p>	<p>The GTN is configured to receive radio altitude information but is not receiving it from any source.</p>	<p>Radio altitude information will not be available. Contact dealer for service.</p>

Message	Description	Action
DEMO MODE- Demo mode is active. Do not use for navigation.	Demo mode is in operation.	Do not use for navigation. Power cycle the GTN to exit demo mode.
FPL WAYPOINT LOCKED- Stored flight plan waypoint is not in current navigation database.	A stored flight plan waypoint is no longer in the current navigation database.	Verify stored cataloged flight plans and procedures. Modify stored flight plans as necessary to include waypoints that are in the current navigation database.
FPL WPT MOVED- Stored flight plan waypoint has changed location.	A stored flight plan waypoint has moved by more than 0.33 arc minutes from where previously positioned.	Verify stored cataloged flight plans and procedures. Modify stored flight plans as necessary to include waypoints that are in the current navigation database.
GLIDESLOPE- Glideslope receiver needs service.	The glideslope board is indicating that it needs service. The glideslope board may continue to function.	Verify glideslope deviation indications with another source and crosscheck final approach fix crossing altitude. If another glideslope source is not available for verification, fly a GPS based approach. Contact dealer for service.
GLIDESLOPE- Glideslope receiver has failed.	The glideslope board is not communicating properly with the system.	Fly an approach that does not use the glideslope receiver (VOR, LOC, GPS). Contact dealer for service.

Message	Description	Action
GNS CROSSFILL- GTN user waypoint(s) replaced with GNS user waypoint(s).	A user waypoint from the GNS replaced one or more existing waypoints on the GTN.	Ensure that the waypoints on the GNS have unique names before transferring to the GTN to avoid overwriting existing waypoints.
GNS CROSSFILL- Catalog full; not all GNS waypoints(s) transferred.	A user waypoint from the GNS could not be created because the user waypoint catalog is full.	Remove some of the waypoints from the catalog to make room for the waypoints from the GNS.
GNS CROSSFILL- Waypoint transfer failed.	Waypoint transfer failed/ incomplete.	The data transfer should be reattempted.
GPS NAVIGATION LOST- Insufficient satellites. Use other navigation source.	GPS position has been lost due to lack of satellites.	Use a different GPS receiver or a non-GPS based source of navigation. Contact dealer for service.
GPS NAVIGATION LOST- Erroneous position. Use other navigation source.	GPS position has been lost due to erroneous position.	Use a different GPS receiver or a non-GPS based source of navigation. Contact dealer for service.
GPS RECEIVER- GPS receiver has failed. Check GPS coax for electrical short.	Internal communication to the GPS module is inoperative.	Use a different GPS receiver or a non-GPS based source of navigation. Contact dealer for service.
GPS RECEIVER- Low internal clock battery.	The GPS module indicates that its clock battery is low. The unit will function normally, but may take a longer than normal period to acquire a GPS position.	Contact dealer for service.
GPS RECEIVER- GPS receiver needs service.	The GPS module is reporting that it needs service. The GPS module may continue to function.	Use a different GPS receiver or a non-GPS based source of navigation. Contact dealer for service.

Message	Description	Action
GPS SEARCHING SKY- Ensure GPS antenna has an unobstructed view of the sky.	The GPS module is acquiring position and may take longer than normal. This message normally occurs after initial installation or if the unit has not been powered for several weeks.	No action is necessary; message is informational only.
GTN- GTN needs service.	The GTN has lost calibration data that was set by Garmin during manufacturing.	Contact dealer for service.
HTAWS- Invalid Terrain Database	The Terrain database is of insufficient resolution for use with HTAWS.	Load HTAWS specific terrain database on the external SD memory card.
INTERFACE ADAPTER- GAD 42 configuration needs service.	GAD 42 indicates a configuration error.	Verify all input/output data from/to the GAD 42 Interface Adapter. Contact dealer for service.
INTERFACE ADAPTER- GAD 42 needs service.	GAD 42 indicates it needs service. The GAD 42 may continue to function.	Verify all input/output data from/to the GAD 42 Interface Adapter. Contact dealer for service.
INTERNAL SD CARD ERROR- GTN needs service.	Internal SD memory card has an error. This card is not accessible by the user.	Contact dealer for service.
INTERNAL SD CARD REMOVED- GTN needs service.	Internal SD memory card was removed. This card is not accessible by the user.	Contact dealer for service.
KEY STUCK- HOME key is stuck.	The HOME key has been in a pressed position for at least 30 seconds. This key will now be ignored.	Verify the HOME key is not pressed. Contact dealer for service if this message persists.

Message	Description	Action
KEY STUCK- [Direct-to Icon] key is stuck.	The Direct-To key has been in a pressed position for at least 30 seconds. This key will now be ignored.	Verify the Direct-To key is not pressed. Contact dealer for service if this message persists.
KNOB STUCK- Volume knob is stuck in the pressed position.	The volume knob has been in a pressed position for at least 30 seconds. This knob press will now be ignored.	Verify the volume knob is not pressed. Contact dealer for service if this message persists.
KNOB STUCK- Dual concentric inner knob is stuck in the pressed position.	The dual concentric inner knob has been in a pressed position for at least 30 seconds. This knob press will now be ignored.	Verify the dual concentric knob is not pressed. Contact dealer for service if this message persists.
LOCKED FLIGHT PLAN- Cannot activate a flight plan containing a locked waypoint.	The user is trying to activate a flight plan that contains a locked waypoint.	Unlock the flight plan by modifying stored flight plans as necessary to include waypoints, procedures, and airways that are in the current navigation database.
LOSS OF INTEGRITY (LOI)- Verify GPS position with other navigation equipment.	The GPS module has reported a loss of integrity.	Use a different GPS receiver or a non-GPS based source of navigation. Contact dealer for service if this message persists.
MAGNETIC VARIATION- Aircraft in area with large mag var. Verify all course angles.	MagVar is flagged as unreliable in the MagVar database. This normally occurs when operating at high latitudes that do not support a NAV Angle of Magnetic.	Verify that the geographical region supports navigation based on magnetic variation.

Message	Description	Action
MARK ON TARGET- Waypoint creation has failed. MOT requires GPS position.	Mark on Target waypoint creation has failed because of missing GPS position.	Wait for GPS satellite geometry to improve. Ensure the aircraft has a clear view of the sky. Reattempt waypoint creation. Contact dealer for service.
NAV ANGLE- NAV Angles are referenced to True North (°T).	NAV angle is set to True.	No action is necessary; message is informational only.
NAV ANGLE- NAV Angles are referenced to a User set value (°U).	NAV angle is set to User.	No action is necessary; message is informational only.
NON-WGS84 WAYPOINT- See CRG. Location may be different than where surveyed for [WPT].	The active waypoint is not referenced to the WGS84 datum. See Note 1 following this table.	No action is necessary; message is informational only.
OBS- OBS is not available due to dead reckoning or no active waypoint.	OBS requires an active waypoint and is not supported in dead reckoning mode.	No action is necessary; message is informational only.
PARALLEL TRACK- Parallel track not supported past IAF.	Parallel track is not supported on approaches.	No action is necessary; message is informational only.
PARALLEL TRACK- Parallel track not supported for turns greater than 120 degrees.	Parallel track is not supported for turns greater than 120 degrees due to the acute angle.	No action is necessary; message is informational only.

Message	Description	Action
PARALLEL TRACK- Parallel track not supported for leg type.	Parallel track is not supported on current leg type.	No action is necessary; message is informational only.
REMOTE KEY STUCK - Alert Acknowledge key is stuck.	The remove TAWS alert acknowledge (ALRT ACK) key/switch has been in pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the ALRT ACK key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK- Remote OBS key is stuck.	The remote OBS (OBS MODE SEL) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the OBS MODE SEL key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK- Remote CDI key is stuck.	The remote CDI (CDI SRC SEL) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the CDI SRC SEL key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK- COM push-to-talk key is stuck.	The Push To Talk key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored and the COM radio will no longer transmit.	Verify the Push To Talk key/switch is not stuck. Contact dealer for service if this message persists.

Message	Description	Action
REMOTE KEY STUCK-COM remote transfer key is stuck.	The remote COM transfer (COM RMT XFR) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the COM RMT XFR key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK-COM remote frequency increment key is stuck.	The remote COM frequency increment (COM CHAN UP) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the COM CHAN UP key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK-COM remote frequency decrement key is stuck.	The remote COM frequency decrement (COM CHAN DN) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the COM CHAN DN key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK-NAV remote transfer key is stuck.	The remote NAV transfer (NAV RMT XFR) key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the NAV RMT XFR key/switch is not stuck. Contact dealer for service if this message persists.

Message	Description	Action
REMOTE KEY STUCK- RP Mode key is stuck.	The remote RP MODE key/switch has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the RP MODE key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK- TAWS inhibit key is stuck.	The TAWS INHIBIT discrete input has been in a pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the TAWS INHIBIT key/switch is not stuck. Contact dealer for service if this message persists.
REMOTE KEY STUCK- Remote go around key is stuck.	The remote go around (RMT GO ARND) key/switch has been in pressed position for at least 30 seconds. This input will now be ignored. This input is not available in all installations.	Verify the RMT GO ARND key/switch is not stuck. Contact dealer for service if this message persists.
SELECT FREQUENCY- Select appropriate NAV frequency for approach.	Correct NAV frequency is not set in the active NAV frequency for the approach procedure.	Insert the correct frequency into the active navigation frequency window.
SET COURSE- Set course on CDI/HSI to [current DTK].	The selected course on the CDI/HSI does not match the current desired track.	Set the CDI/HIS selected course to the current desired track.

Message	Description	Action
STEEP TURN- Aircraft may overshoot course during turn.	Flight plan contains an acute course change ahead which will require a bank in excess of normal to follow the guidance. If coupled to the autopilot, the autopilot may not be able to execute the steep turn needed to follow the course guidance.	No action is necessary; message is informational only. If desired, slow the aircraft to shallow the turn.
STORMSCOPE- Stormscope is inoperative or connection to GTN is lost.	The GTN is configured for a WX-500 Stormscope but is not receiving data from it.	Contact dealer for service.
STORMSCOPE- Invalid heading received from Stormscope.	The WX-500 Stormscope reports that it has an invalid heading source.	GTN StormScope data is correct and may be used. Contact dealer for service.
TAWS AUDIO INHIBITED- TAWS audio inhibit input is stuck.	The TAWS Audio Inhibit discrete input has been active for at least 30 seconds. This input is active in all installations. TAWS audio may be heard at the same time as other audio alerts.	Contact dealer for service.
TIMER- Timer has expired.	A user-configured timer has expired.	No action is necessary; message is informational only.
TRAFFIC- Traffic device is inoperative or connection to GTN is lost.	The GTN is configured for a traffic device but is not receiving data from it. Traffic will not be displayed on the GTN.	Contact dealer for service.

Message	Description	Action
TRAFFIC- Traffic device has been in standby for more than 60 seconds.	The GTN is airborne and the traffic device has been in standby for more than 60 seconds.	Set the traffic device to "operate" on the traffic page if traffic alerts are desired.
TRAFFIC- Traffic device battery low. Traffic device user config settings not saved.	The TCAD system has indicated that its battery is low.	Contact dealer for service.
TRANSPONDER- Transponder 1 and 2 Mode S addresses do not match.	The GTN is configured for two transponders and their Mode S addresses do not match. This message is intended to assist installers and will not occur in a properly configured system.	Contact dealer for service.
TRANSPONDER 1- Transponder 1 needs service.	The transponder is reporting to the GTN that it needs service. The transponder may continue to function.	Verify squawk code and altitude with ATC. Contact dealer for service.
TRANSPONDER 2- Transponder 2 needs service.	The transponder is reporting to the GTN that it needs service. The transponder may continue to function.	Verify squawk code and altitude with ATC. Contact dealer for service.
TRANSPONDER 1- Transponder 1 is inoperative or connection to GTN is lost.	The GTN is configured for transponder 1 or 2 but is not able to communicate with the transponder.	Verify squawk code and altitude with ATC. Contact dealer for service.

Message	Description	Action
TRANSPONDER 2- Transponder 2 is inoperative or connection to GTN is lost.	The GTN is configured for transponder 1 or 2 but is not able to communicate with the transponder.	Verify squawk code and altitude with ATC. Contact dealer for service.
TRANSPONDER 1- ADS-B is not transmitting position.	The transponder has insufficient data to support ADS-B.	Ensure the aircraft has a clear view of the sky. Contact dealer for service.
TRANSPONDER 2- ADS-B is not transmitting position.	The transponder has insufficient data to support ADS-B.	Ensure the aircraft has a clear view of the sky. Contact dealer for service.
TRUE NORTH APPROACH- Verify NAV Angles are referenced to True North (°T).	A procedure is loaded that is referenced to true north and the active leg has a published true north reference.	Verify the NAV Angle is set to True North.
VERTICAL CALCULATOR- Approaching target altitude. Start descent.	User has configured a vertical descent calculation, and the aircraft is within 60 seconds of the calculated top of descent.	No action is necessary; message is informational only.
VERTICAL CALCULATOR- Approaching target altitude.	User has configured a vertical descent calculation, and the aircraft is approaching the target altitude.	No action is necessary; message is informational only.
VLOC RECEIVER- Navigation receiver needs service.	The NAV radio is reporting that it needs service. The NAV radio may continue to function.	Use GPS based navigation. Contact dealer for service.
VLOC RECEIVER- Navigation receiver has failed.	The NAV radio is not communicating properly with the system.	Use GPS based navigation. Contact dealer for service.

Message	Description	Action
WAYPOINT- Arriving at [wpt name].	User has configured the arrival alarm and is within the specified distance.	No action is necessary; message is informational only.
WX RADAR FAIL- Weather radar is inoperative.	Weather radar is reporting a system fault.	Contact dealer for service.
WX RADAR SERVICE- Weather radar needs service. Return unit for repair.	Weather radar is reporting a system failure.	Contact dealer for service.
WX ALERT- Possible severe weather ahead.	Weather radar is reporting heavy or severe weather ahead.	Check weather radar. For more details, refer to the latest revision of the GTN 725/750 Pilot's Guide.

NOTE 1: There are several reference datums that waypoints can be surveyed against. TSO-C146 normally requires that all waypoints be referenced to the WGS84 datum, but allows for navigation to waypoints that are not referenced to the WGS84 datum so long as the pilot is notified. Certain waypoints in the navigation database are not referenced to the WGS84 datum, or their reference datum is.

GLOVE QUALIFICATION PROCEDURE

This procedure is used to qualify a specific glove for use with the GTN system by guiding the user through a variety of tasks that use the touchscreen. Due to differences in finger size, glove size, and touchscreens between the 6XX or 7XX unit, the qualification granted by this procedure is specific to the pilot/glove and 6XX or 7XX combination. GTN 7XX and 6XX units must be evaluated separately.

The GTN touchscreen uses capacitive touch technology to sense the proximity of skin to the display. A glove increases the distance between skin and the display glass and may reduce the ability of the GTN to detect touches. Therefore, when selecting a glove for use with the GTN, thinner gloves tend to work better than thicker gloves. Leather gloves and gloves designed to work specifically with capacitive touchscreen devices are often found to be acceptable. Additionally, altering your touch technique to use the pad of your finger to touch the unit rather than the tip will increase the touchscreen sensitivity while using gloves.

This qualification must be completed on the ground. Performing this procedure in flight is not authorized. “Tests Required for Glove Qualification” table contains tasks that are required to qualify a glove. “Test Not Required for Glove Qualification” table contains tasks that are not required to qualify a glove, but may limit the manner in which some functions are accessed while a glove is worn.

1. Sit in the pilot’s seat.
2. Start the GTN in Demo mode by pressing and holding the Direct To key during power up.
3. Perform the tasks listed in the following sections with an ungloved hand. You do not need to record any results for this step.
4. Perform the tasks listed in the following sections with a gloved hand. For each task, determine whether the operation is the same or worse as it was without the glove. Record the results in the applicable table. Items that may cause the operation to be worse include, but are not limited to:
 - a. Multiple attempts to select a key
 - b. Unintentional selection of adjacent keys
 - c. Excessive force on the touchscreen to select a key

5. If all applicable tasks in following sections respond in the same way with and without a glove then the glove used to complete these tasks may be used by the pilot who performed this evaluation on the unit (6XX or 7XX) that was used during this procedure.
6. Pilot: _____
7. Glove Description: _____
8. GTN (circle one): 6XX or 7XX

Tests Required for Glove Qualification

Task	Operation With Glove (circle one)	
Navigate to the Home Screen.	NA	
Touch the Demo key.	Same	Worse
Touch the GPS key.	Same	Worse
Touch the Waypoint key.	Same	Worse
Type "KSLE" using the touchscreen, then touch Enter .	Same	Worse
Navigate to the Home Screen (Press HOME).	NA	
Touch the Flight Plan key.	Same	Worse
Enter the following waypoints using the Add Waypoint key at the bottom of the list of flight plan waypoints: KSLE KMMV KONP BTG	Same	Worse
Select BTG, then touch the Load Airway key to load the following airway: V23 ALFOR.	Same	Worse
While viewing the flight plan page, touch the Up/Down arrow keys to scroll up and down to view the flight plan waypoints.	Same	Worse
Touch the Back key to return to the Home screen.	Same	Worse
Touch the COM standby frequency to activate the com frequency entry keypad (Task applicable to 635/650/750 only).	Same	Worse

Task	Operation With Glove (circle one)	
	Same	Worse
Enter a valid com frequency and touch the Enter key (635/650/750 only).	Same	Worse
Touch the active com frequency to flip/flop the com frequencies. (635/650/750 only).	Same	Worse
Touch the active nav frequency to flip/flop the nav frequencies (750 only).	Same	Worse
Touch the Menu key (650 only).	Same	Worse

Tests Not Required for Glove Qualification

Task	Operation With Glove (circle one)	
	Same	Worse
Navigate to the flight plan page.	NA	
While viewing the flight plan page, touch the list and drag up/down to view the flight plan waypoints.	Same	Worse
While viewing the flight plan page, touch and flick the list to view the flight plan waypoints.	Same	Worse
Navigate to the map page.	NA	
Touch the Map to enter Pan mode, then touch the Graphically Edit FPL key.	Same	Worse
Remove KONP from the flight plan graphically by touching KONP and dragging it to an area without any waypoints (Pan and zoom in/out as necessary to accomplish the task).	Same	Worse
Insert KSPB between KMMV and BTG by dragging the leg between KMMV and BTG to KSPB.	Same	Worse

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To obtain accessories for your unit, please contact your Garmin dealer.

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AC 90-100A Statement of Compliance: The Garmin navigational unit meets the performance and functional requirements of AC 90-100A.

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