

GNC 250 Pilot's Quick Reference Guide





CURSOR CONTROL

GRSR The cursor key is used to activate and deactivate the cursor in the comm and GPS windows, and is used to highlight fields for data entry, changing display data or cycling through available options.

Pressing c_{RSB} once activates the cursor in the comm window, and is indicated by a < > around the standby frequency (see above).

Pressing **CRSP** again moves the cursor to the GPS window and is indicated by a flashing field. Pressing **CRSP** a third time turns the cursor off.

CURSOR/DATA ENTRY

CURSOR/DATA ENTRY



DATA ENTRY



The outer knob is used to advance through pages, select comm frequency (MHz), advance the cursor or move through data fields.



- The inner knob is used to change data, select comm frequency (KHz), or scroll through additional information that cannot fit on the screen.
- **CLR** The clear key is used to erase information or cancel an entry.
- The enter key approves operations and confirms data entry and prompts.

POWER UP

- □ Insert data card in card slot.
- □ Rotate the power/volume knob clockwise to turn the unit on and adjust volume. The welcome page will appear while the unit performs a self test.
- □ Press **ENT** to confirm the database prompt.
- □ Satellite acquisition will begin and the unit will display a 'Ready for Navigation' message once a position fix has been calculated.

FLYING START

□ To view messages, press the MSG key.

SELECT ACTIVE AND STANDBY FREQUENCIES

Press erss to activate the cursor in the standby frequency field.
Rotate () and () to dial in the desired active frequency.
Press rest to place the selected frequency in the active field.
Rotate () and () to dial in the desired standby frequency.

FLYING START

TO SELECT A DIRECT-TO DESTINATION:

🗆 Press 🗝

- □ Rotate to select the first character of the destination waypoint's identifier. Remember to use the ICAO identifier if you are entering an airport as your destination (i.e., KOSH for Wittman Regional Airport).
- Rotate O one stop to the right to advance the cursor to the next character position, and use
 to select the next character of the identifier.
- □ Repeat steps 2 and 3 until the desired waypoint is displayed.

122.95	118.90	
90 to	apt:KICT	
N37°3	(9.00′ W097°	25.99'
auto	<u>crs:220°</u>	ok?

- □ Press ENT to confirm the identifier. The direct-to confirmation page will appear, showing the position of the selected destination and the course from your present position.
- □ Press ENT to confirm the direct-to destination. The navigation page will appear, displaying detailed navigation data to your destination. The graphical CDI at the upper left corner of the page indicates the distance and direction you are off course on a 5.0 nm scale.

TO SELECT COMM FREQUENCIES:

Press criss repeatedly to highlight the standby field (e.g., "<121.75>").
Rotate () to select the desired megahertz (to the left of the decimal).
Rotate () to select the desired kilohertz (to the right of the decimal).
Press criss twice to remove the cursor from the comm and GPS windows.

TO EXCHANGE ACTIVE AND STANDBY FREQUENCIES:

COMMUNICATION

TO ADJUST THE AUDIO VOLUME:

 \Box Rotate the O power/volume knob.

TO OVERRIDE THE AUTOMATIC SQUELCH:

□ Press the so squelch key. Press so again to return to automatic squelch.

COMMUNICATION

TO AUTO-TUNE A FREQUENCY DISPLAYED IN THE GPS DATABASE:

□ Press ENT with the cursor off to select the frequency as the standby frequency.

111890	122 9	5	
	+ ⁻ 260	÷.	0006
nri ap	τ κρυ	E 1	0807
042°	15 🕬 👘	t.ue -	120 80
10.2	1 .		
rnwy	13 /3	1 1	28005

TO AUTO-TUNE A FREQUENCY FROM A LIST IN THE GPS DATABASE:

□ Press GRSF twice to activate the cursor in the GPS window.

118.90 124	.30	
KICT↓	ats	125.15
clr 125.20	gnd	121.90
twr 118.20	uni	122.95

 \Box Rotate \bigcirc to highlight the desired frequency.

□ Press ENT to place the frequency in the standby field.

TO AUTOMATICALLY TUNE FOR EMERGENCY TRANSMISSION:

 \Box Press and hold the \checkmark key for > 2 seconds.



WAYPOINT & **AIRPORT INFO**

The WPT key is used to view position, runway, frequency and other information on airports, VORs, NDBs, intersections and user waypoints. To scroll through the waypoint pages, press WPT and rotate the outer knob.



TO ACCESS APT INFORMATION:

🗅 Press the 🗤 key.

□ Press CRSR twice to activate the cursor.

□ Press ENT to confirm the 'apt?' category. The airport identification page will appear with the identifier field ready for entry.

1118.90 124.95	
JaetsKisti Shi USH	
	_
GRAND JUNCTION CI	П
	-
MALKER	
	_

TO ENTER APTS BY IDENTIFIER:

- □ Highlight an identifier field, and enter the identifier.
- □ As the identifier is entered, the GNC 250 will display any waypoints with the same identifier letters you have entered to that point.
- □ When the desired airport is displayed, press CRSP.

TO SELECT AN APT BY FACILITY NAME OR CITY:



□ From the airport identification page, highlight the second field in the GPS window to enter the city name, *OR*:

highlight the last field in the GPS window to enter the facility name.



□ Enter the city or facility name of the airport.

□ Press CRSR to finish.

TO SELECT A DIRECT-TO DESTINATION:

 \Box Press the \clubsuit key.

□ Enter the identifier of the destination waypoint.

□ Press ENT to accept the identifier, and ENT again to accept the direct-to confirmation page.

121.50 118.99	i
Enter wet	9s :120%
disM	trk 356°
<u>go to:KICT_</u>	ete:

DIRECT-TO

TO RE-CENTER THE D-BAR:

□ Press →, followed by ENT twice.

TO SELECT A DIRECT-TO FROM ANY PAGE THAT DISPLAYS A SINGLE WAYPOINT IDENTIFIER:

□ Press →, followed by •.

TO CANCEL A DIRECT-TO:

 \Box Press the \clubsuit key.

□ Press the CLR key, followed by ENT.

122.95	118.90	
90 to	apt:KICT	
N37°3	39.00' W097°	25.99'
auto	<u>crs:220°</u>	ok?

USING THE DIRECT-TO CONFIRMATION PAGE



The GNC 250's direct-to confirmation page may also be used to select a destination waypoint, review a waypoint's position, facility name or location, and manually set a course to/from the destination.

TO SELECT A DIRECT-TO DESTINATION:

□ Highlight the identifier field and enter the identifier using **●** and **○**. Press **■** when finished.

TO REVIEW THE LOCATION/FACILITY NAME OF THE DIRECT-TO WAYPOINT:

TO ENTER A DESIRED COURSE TO OR FROM THE DESTINATION WAYPOINT:

DIRECT-TO

WAYPOINT SEQUENCING AND HOLD MODE

The GNC 250's waypoint sequencing field allows you to 'hold' on a selected waypoint and prevent the GPS from sequencing to the next route waypoint. You may also use the hold mode with the course select feature to maintain a user-defined course to the hold waypoint.

TO HOLD ON A WAYPOINT:

- Set the waypoint sequencing field to the 'hold' setting by highlighting the waypoint sequencing field and rotating
 one stop in either direction.
- □ To enter a desired course to or from the destination waypoint, highlight the 'crs' field and use and to enter the desired course.

□ Press **ENT** when finished.

124.30 118.90 90 to apt:KICT N37°39.00' W097°25.99' auto crs:233° ok?

Waypoint sequencing field set to AUTO.



Waypoint sequencing field set to HOLD.

DIRECT-TO

DIRECT-TO

USING THE COURSE SELECT FUNCTION

118.90 124.30	0
• • • • • ^ • • • • • •	∣gs :120≒
dis 15.30%	trk 107°
074°:KIXD	_ete 9:48

Once the waypoint sequencing field is set to the 'hold' position, the selected course will appear at the bottom left corner of the CDI page.

TO ENTER A NEW COURSE FROM THE CDI PAGE:

- □ Press CRSR twice to activate the cursor in the GPS window.
- \Box Rotate \bigcirc to highlight the course select field.
- \Box Use \bigcirc and \bigcirc to enter the desired course.
- □ Press ENT to confirm, and CRSP to remove the cursor.
- □ To establish a new GPS calculated course, press ↔, then ENT. Press ENT again to confirm the 'ok?' prompt.



The NAV key is used to view navigation, position and status information and provides access to various planning and calculation rotate the outer knob; or press the NAV key repeatedly.

NAVIGATION

NAVIGATION

CDI PAGE

1110.10 127.13		
+++++++++++++++	s :	130%
dis 142.49% b	rg –	339°
90 to:KOMA t	rk –	339°

- Provides a graphical CDI and displays your speed and track over the ground, and the distance and ETE to your destination.
- □ The four data fields may be changed to display different data by placing the flashing cursor over the desired field and rotating the inner knob.
- □ When the GNC 250's waypoint sequencing mode is set to 'hold', the desired course may be entered in the course select field.

NAVCOM PAGE

- 118.90 124.95 KIXD apr 118.90 twr§118.30 ↓9nd§124.30
- Displays the available communication frequencies of the nearest or departure airport, as well as the frequency of the arrival airport during direct-to and route operations.
- □ To scroll through the frequencies list, rotate the inner knob with the cursor inactive.
- □ To place a displayed frequency in the standby field, highlight the frequency with the cursor and press ENT.

POSITION PAGE

118.95	121	.75	
alt	8394	T	
N38°5	i7.093'	W094°	44.783
Sapt.	којс	353°	6.as R

- Displays your present position and altitude information (altitude, msa or esa).
- The reference waypoint field indicates your radial and distance from the nearest airport, VOR, NDB, intersection or user waypoint, and can be used to maintain a radial or distance from a waypoint.
- You may also display the radial and distance from any other waypoint (not just the nearest waypoint of each category) by selecting the 'wpt' category and entering the desired identifier.



NEAREST/SUA

The NRST key is used to obtain information on the nine nearest airports, VORs, NDBs, intersections, user waypoints and two near-

est FSSs; and provides access to SUA alert information. To scroll through the nearest pages, press NRST and rotate the outer knob.

NEAREST WAYPOINT INFORMATION

SPECIAL USE AIRSPACE ALERTS

8000%M- 9round

TO VIEW NEAREST APT INFORMATION:

 Press the NRST key. The nearest airport will be displayed, subject to the runway surface type and minimum runway length currently selected.

TO VIEW OTHER NEAREST APTS:

 \Box Rotate \bigcirc to the right.

The GNC 250's Key also provides access to Special Use Airspace information that you are currently being alerted to.

121.75 sual near&ahead 1:31

TO VIEW THE SUA ALERT PAGE: TO VIEW ANY ADDITIONAL AIRPORT INFO:

□ Highlight the frequency field or the runway identification field. □ Rotate ● to scroll through any additional information.

To view other wpt categories, remove the cursor and rotate the outer knob.

□ Press the NRST key.

118.95

- \Box Rotate \bigcirc one stop to the right.
- □ To toggle the display between the SUA name and the controlling agency and scroll through other SUA alerts, rotate () in either direction



Route Catalog Page

The RTE key allows you to create, edit and activate routes; and provides access to search and rescue, offset navigation and closest point of approach functions. To scroll through the route pages, press RTE and rotate the outer knob; or press the RTE key repeatedly.

TO CREATE OR EDIT A ROUTE:

|--|

- Press the **BTE** key and rotate O until the route catalog page appears.
- □ Rotate to display the route number you would like to create or edit (route 0 for the active route).
- Press CRSR twice to activate the cursor in the GPS window.
- Rotate to select the 'edit?' option from the route action field. Press ■NT.
- □ To add a route waypoint, highlight the first blank waypoint field or the point where you want to enter the new waypoint. Enter the waypoint identifier and press ENT. Press ENT again to accept the waypoint confirmation page.
- To delete a route waypoint, highlight the waypoint and press **CLR**, then

ACTIVATING AND DELETING ROUTES

118.95	12	21.75		
rte	0 a	activ	ate	?
ктор	/KOK	(C	- 24	1.03 M
Paral	lel	trk:	L	0.0h

TO ACTIVATE A ROUTE:

- □ Press **RTE** and rotate to display the route catalog page.
- \Box Rotate \bigcirc to display the desired route.
- □ Press CRSR twice to activate the cursor in the GPS window.
- \Box Rotate \bigcirc to select the 'activate?' option from the route action field.
- □ Press ENT. The route will be copied into route 0 (the active route).

TO DELETE/STOP NAVIGATING A ROUTE:

□ Follow the first three steps described above.

□ Rotate ● to select the 'delete?' option and press ■ T.

FLYING THE ACTIVE ROUTE

TO REVIEW ROUTE WAYPOINTS FROM THE ACTIVE ROUTE PAGE:

 \Box With the cursor off, rotate \bigcirc in the direction of the arrow prompts.

□ To manually select your next route waypoint, highlight the desired waypoint with the flashing cursor and press ↔, followed by ↔. The GNC 250 will provide direct navigation guidance to the selected waypoint and resume navigating the remainder of the route in sequence.

TO HOLD ON A ROUTE WAYPOINT:

- \Box Highlight the route waypoint you want to hold on and press $\xrightarrow{\bullet\bullet}$.
- □ Rotate () to highlight the waypoint sequencing field and use () to select the 'hold' setting. Press to accept.
- \Box Use \bigcirc and \bigcirc to enter the desired course. Press **ENT** to confirm.
- □ Press ENT to confirm the 'ok?' prompt. The CDI page will display the course at the bottom left of the page.



UNIT SETTINGS

- CDI SETTINGS— allows you to set the CDI scale to 0.3, 1.0 or 5.0 nm scale or an automatic scale. The default setting is 5.0 nm.
- MAG VAR/ARVL ALARM— allows you to select between true, auto or user-defined magnetic variation options and set an arrival alarm for waypoint arrival at a specified distance from a destination waypoint. The default setting for magnetic variation is 'auto'.
- NEAREST APT SEARCH— allows you to define the runway length and surface type used in determining which nearest airports are displayed. The default settings are '0 ft/mt' for length and 'any' for runway surface.
- BATTERY SAVER— allows you to specify a timeout interval for the GNC 250 display. The default setting is 30 seconds.
- DISPLAY INTENSITY— allows you to manually adjust the brightness of the display. The default setting is for automatic brightness.
- TRIP TIMER— provides a running clock on Nav Menu 2 that may be set to run when power is on or when ground speed exceeds a user-defined minimum.

- UNITS OF MEASURE— allows you to select units of measure for various navigation and planning displays.
- SPECIAL USE AIRSPACE— allows you to turn specific controlled/restricted airspace message alerts on or off. Turning message alerts off will not prevent SUA information from being displayed on the nearest SUA page.
- MAP DATUM— allows you to select or define the map datum used. The default datum is WGS '84.
- I/O CHANNEL 2— allows you to select input and output interface settings and baud rate for channel 2. The default settings are 'off'.



© 1995 GARMIN International 9875 Widmer, Lenexa, KS 66215, USA GARMIN/Europe LTD Robert House, Station Approach Romsey, Hampshire SO51 8DU UK Part No. 190-00067-51 Rev. A Printed in USA