

Supplement No. 004

Garmin GNC 255A NAV/COM

Airplane Serial Number:

Airplane Registration Number:

Date of Issue **10. 02. 2016**

This Supplement must be attached to the POH when the Garmin GNC 255A NAV/COMM is installed in accordance with the manufacturer's approved documentation.

Information in this Supplement completes or replaces information in the basic POH for the below mentioned parts only. Limitations, procedures and information not mentioned in this Supplement and included in the basic POH stay valid.

This Supplement completes information necessary for the airplane operation with equipment installed on the airplane. This Supplement is a permanent part of this POH and must remain in this POH at all times when the GNC 255A NAV/COMM is installed.

This supplement is EASA approved under

Approval No.:

Approval Date:

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Chapter 1 GENERAL INFORMATION

The airplane is equipped with Garmin GNC 255A NAV / COMM device. The COM section of the GNC 255A NAV / COMM operates in the aviation voice band, from 118.000 to 136.975 MHz, in 25 kHz steps (default). For European operations, a Com radio configuration of 8.33 kHz steps is also available. The NAV section operates from 108 MHz to 117.95 MHz decoding both the VHF Omni Range and Localizer navigation signals. The built-in Glideslope receiver will automatically tune the corresponding glideslope paired frequencies (328 MHz to 335 MHz) when the localizer is tuned.

Garmin GNC 255A NAV / COMM has ETSO Authorization No. EASA.IM.210.10043506, dated 04/02/2013.

Chapter 2 LIMITATIONS

2.15 OTHER LIMITATIONS

The Garmin GNC 255A/255B Pilot's Guide, P/N 190-01182-01 (revision A or later) must be available for the flight.

Chapter 3 EMERGENCY PROCEDURES

In case of emergency flight conditions, the standard emergency channel (121.50 MHz) is stored in the Com memory of the GNC 255A NAV / COMM.

1.	Flip/Flop key	Press and hold for approx. two second
2.	Message	Listen or send

Chapter 4 NORMAL PROCEDURES

No change.

Chapter 5 PERFORMANCE

No change.

Chapter 6 WEIGHT AND BALANCE AND EQUIPMENT LIST

Upon removal or installation of the Garmin GNC 255A NAV / COMM the change of empty weight and corresponding center of gravity of the airplane must be recorded according to Chapter 6 of the POH.

Chapter 7 DESCRIPTION OF AIRPLANE AND SYSTEMS

NOTE

Refer to the Garmin GNC 255A/255B Pilot's Guide, P/N 190-01182-01 (revision A or later) for complete operating procedures.

GARMIN GNC 255A NAV / COMM DESCRIPTION

Garmin GNC 255A NAV / COMM (Fig. 7-1) consists of a transmitter / receiver for VHF communication (COM) and a receiver for navigation information (NAV). These are combined with operating controls in one unit. The COM section of the GNC 255A NAV / COMM operates in the aviation voice band, from 118.000 to 136.975 MHz, in 25 kHz steps (default). For European operations, a Com radio configuration of 8.33 kHz steps is also available. The NAV section operates from 108 MHz to 117.95 MHz decoding both the VHF Omni Range and Localizer navigation signals.

The built-in Glideslope receiver will automatically tune the corresponding glideslope paired frequencies (328 MHz to 335 MHz) when the localizer is tuned.

Refer to the Garmin GNC 255A/255B Pilot's Guide, P/N 190-01182-01 (revision A or later) for complete descriptions of the Garmin GNC 255A NAV/COM.

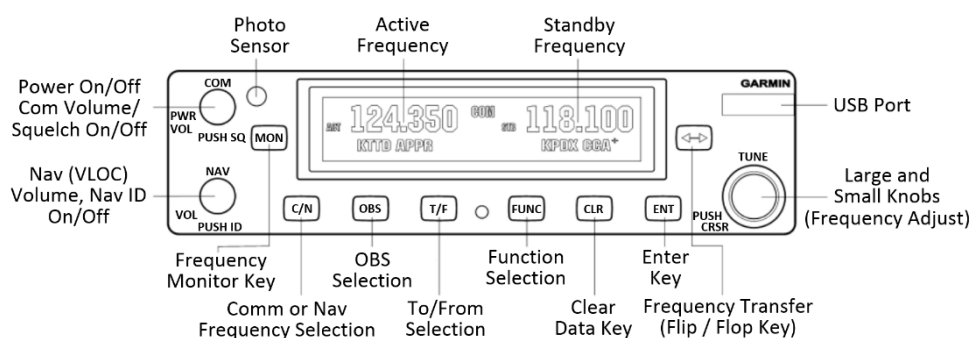


Fig. 7 - 1 Garmin GNC 255A NAV/COMM

GNC 255A Controls

Power/Com Volume/Squelch Knob

The Power/Com Volume/Squelch knob located in the top left corner of the bezel controls audio volume for the Com radio. Rotating the knob clockwise past the detent turns power on and counter-clockwise turns power off. When the Com radio is active, press the Power/Com Volume/Squelch knob to toggle automatic squelch control On/Off for the Com radio.

The Com radio features an automatic squelch to reject many localized noise sources. You may override the squelch function by pressing the Power/Com Volume/Squelch knob. This facilitates listening to a distant station or setting the desired volume level.

To override the automatic squelch, press the Power/Com Volume/Squelch knob momentarily. Press the Power/Com Volume/Squelch knob again to return to automatic squelch operation. A "SQ" indication appears to the left of the active Com frequency window in the upper left corner of the display when automatic squelch is overridden.

Nav Volume/ID Knob

The Nav Volume/ID knob located in the bottom left corner of the bezel controls audio volume for the Nav radio. Press the Nav Volume/ID knob and the Morse code tones will be heard. When Morse code tone is active, "ID" will appear to the left of the Nav active frequency.

Large/Small Concentric Knobs

The Large right and Small right knobs are used for tuning frequencies and data entry.

Flip/Flop Key

Press and release the Flip/Flop key to switch between the active (left-most) and standby (right-most) frequency. Switching between Com frequencies is disabled while you are transmitting.

C/N (Com/Nav) Key

Press the C/N key to select the Com or Nav (VLOC) radio mode.

OBS Key

Press the OBS key to see the current OBS setting and graphic CDI. The OBS page will be disabled if the unit is installed with an external converter.

FUNC (Function) Key

The FUNC (Function) key accesses function categories for the following: the Com Radio, Nav Radio, ICS Configuration, System Configuration, and Timer. Pressing the FUNC key once displays the Function mode. Pressing the FUNC key a second time exits the Function mode.

T/F (To/From) Key

Press the T/F key to toggle between the bearing TO or radial FROM the active VOR. The T/F page also shows Distance/Speed/ Time information. The T/F key does not operate for Localizer frequencies.

CLR Key

Pressing the CLR key erases information, cancels entries, and resets timers.

ENT Key

Press the ENT key to save selected values, to confirm a prompt, or to save the Standby frequency.

MON (Monitor) Key

The MON (Monitor) key will engage the monitor function where the Standby frequency may be monitored while still listening to the Active frequency.

USB Port

The USB port is used to update the frequency database in the GNC 255.

GARMIN GNC 255A NAV / COMM OPERATION

POWER ON

1.	MASTER SWITCH	ON
2.	AVIONICS	ON
3.	Power/Com Volume/ Squelch Knob	Rotate clockwise past the detent

COM SPACING

Com spacing may be selected between 8,33 kHz and 25 kHz to allow for regional requirements.

NOTE

When switching from 8,33 kHz to 25 kHz mode, any 8,33 kHz-specific user frequencies will be deleted from the user frequency list. This only affects the user frequencies within the 8,33 kHz spectrum.

1.	FUNC key	Press
2.	Large knob	Turn to select the SYS Function
3.	Small knob	Turn to view the Com spacing function
4.	ENT key	Press

5.	Small knob	Turn to set the Com spacing
6.	ENT key	Press

SELECTING A COM FREQUENCY

1.	C/N key	Press to reach the Com radio function, if necessary
2.	Large knob	Turn to change the values in one MHz increments
3.	Small knob	Turn to change the values in 25 kHz or 8.33 kHz increments
4.	Large/Small knobs	Turn clockwise to increase / counter clockwise to decrease the frequency values
5.	Flip/Flop key	Press and release to toggle the Standby frequency to the Active frequency

MONITORING THE STANDBY COM CHANNEL

1.	MON key	Press to listen to the standby frequency; small "MN" will replace the "STB" to the left of the Standby frequency
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SAVING A COM CHANNEL

1.	ENT key	Press the Standby frequency is selected and the Waypoint name field will be active
2.	Small knob	Turn to select characters
3.	Large knob	Turn to move the cursor
4.	ENT key	Press after selecting the desired characters
5.	Large knob	Turn to select the waypoint Type
6.	Small knob	Turn to select the Type from the list
7.	ENT key	Press after making a selection

NOTE

When switching from 8,33 kHz to 25 kHz mode, any 8,33 kHz-specific user frequencies will be deleted from the user frequency list. This only affects the user frequencies within the 8,33 kHz spectrum.

COM DATABASE LOOK-UP

1.	CURSOR knob	Press from the Com display to activate the database look-up function
2.	Small knob	To select characters and turn the Large knob to move the cursor
3.	ENT key	Press after selecting the desired characters. Turn the Small knob to scroll through the list of waypoint types; waypoint Types with a "+" sign will have more frequencies for the same type After selection, the selected waypoint and type will be remembered for 30 minutes
4.	ENT key	To copy the frequency into the Standby frequency location; press and release the Flip/Flop key to swap the Active and Standby frequencies

SELECTING A NAV FREQUENCY

1.	C/N key	Press to reach the Nav radio function; the NAV annunciator on the top line of the display will show
2.	Large knob	Turn to change the values in one MHz increments
3.	Small knob	Turn to change the values in 50 kHz increments
4.	Flip/Flop key	Press and release to toggle the Standby frequency to the Active frequency

CAUTION

The Identifier is determined from the database and is not the decoded Nav Identifier.

NOTE

Both Nav and Com frequencies cannot be displayed at the same time.

SAVING A NAV CHANNEL

1.	ENT key	Press - the Waypoint name field will be active
2.	Small knob	Turn to select characters
3.	Large knob	Turn to move the cursor
4.	ENT key	Press after selecting the desired characters
5.	Large knob	Turn to select the waypoint Type
6.	Small knob	Turn to select characters
7.	Large knob	Turn to move the cursor
8.	ENT key	Press after selecting the desired characters

Chapter 9

Supplement No. 004

Garmin GNC 255A

NAV/COM

WT9 Dynamic LSA / Club

Pilot's Operating Handbook

AS-POH-01-004



OBS MODE

1.	OBS key	Press; if annunciator above the key lights
2.	Large and Small knobs	Adjust the Omni Bearing Selector

POWER OFF

1.	Power/Com Volume/ Squelch Knob	Rotate counter clockwise past the detent
2.	AVIONICS	OFF
3.	MASTER SWITCH	OFF

Chapter 8 HANDLING AND SERVICING

No change.