

GARMIN®

GTR 205/GNC 215

Software v2.30

Upgrade Supplement

This supplement contains revised pages from *GTR 205/GNC 215 Pilot's Guide*, P/N 190-02766-02, Rev. C. These pages contain new and significant information regarding the features of software v2.30 as well as changes in terminology and additional information to clarify unit operation.

Black bars adjacent to revised information correspond to changes described in the revision summary table.

Features and screen images are dependent upon the installed software version and its configuration. For more information regarding feature availability, refer to the pilot's guide.

An electronic version of the pilot's guide is available for viewing on your computer or portable device. Go to garmin.com/manuals.

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INFORMATION & SUPPORT

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Overview

Main software v2.30 adds the following significant features to GTR 205.

Expanded Communications

GTR 205 provides new communications options with the purchase of the Audio Panel feature enablement.

COM Playback Functionality

Replay recently received COM transmissions using the COM Playback function. GTR 205 automatically records up to 2.5 minutes of the active COM radio signal for playback. These clips can be heard by anyone listening to the COM radio.

This feature includes a pilot-configurable control option (playback key) available on the Audio Sources page.

Dual-COM Switching

If configured for dual-COM radios, you may toggle the active COM transmitter and/or related COM receiver(s) at any time using the associated audio controls. Transmitter options (MIC 1 or MIC 2) set the COM #1 or COM #2 transmitter and related COM receiver (MON 1 or MON 2), allowing received audio to be heard over the headset.

4-place Intercom System

ICS now includes control options for passenger intercom.

New Soft Key Shortcut Options

These include:

- Dual-COM radio commands
- COM Playback commands

Learn more about Audio Panel features in their respective sections.

- Replay COM transmissions: Section 3, *COM*
- Control dual-COM radios and set playback key function: Section 6, *Audio Sources*
- Adjust passenger intercom: Section 7, *Intercom*
- Assign dual-COM or playback soft key shortcuts: Section 2, *Get Started*

Fail-safe Audio

In the event of a unit failure or loss of power, a fail-safe circuit connects the pilot's headset and microphone directly to a second COM transceiver. Connections automatically re-route to their previous designations once unit operation is restored.

Learn more about fail-safe circuit operation in Section 6, *Audio Sources*.

Change List

GTR 205/GNC 215 Pilot's Guide, P/N 190-02766-02, Rev. C contains the following significant changes.

REV B PAGE	REV C PAGE	DESCRIPTION
Section 1 - System at a Glance		
1-2	1-2	Updated GTR 205 and GNC 215 unit depictions in "Unit Configurations" section.
1-3	1-3	Updated "Unit Features" list to include the following new features for GTR 205. • 4-place intercom system • COM Playback • Dual-COM
		Reorganized table notes.
		Added and applied note 2 regarding software availability (v2.30 and later) to each new entry.
		Applied note 3 regarding purchased enablement requirement to each new entry.
1-7	1-8	Added "Audio Panel Commands" list to "GTR 205 Specific Commands" segment. Includes graphical depictions of Dual-COM and COM Playback soft keys available with Audio Panel feature enablement.
Section 2 - Get Started		
2-15	2-15	Updated "Menu Options" table to include options related to COM Playback feature. • <i>Display Tab</i>: Added playback display option. • <i>Setup Tab</i>: Added playback settings access. Applied note 1 (GTR 205 only) to each new menu option.
2-18	2-18	Added guidance for assigning soft key shortcuts.

REV B PAGE	REV C PAGE	DESCRIPTION
2-18	2-19	Added "Shortcut Options" section title and dedicated tables for GTR 205 and GNC 215. Includes the following new soft key shortcut options for GTR 205. • COM Playback • MIC • MON
		Added and applied note 1 regarding feature availability (GTR 205 v2.30 and later) and enablement requirement to each new table entry.
2-21	2-22	Updated image of System Info page.
Section 3 - COM		
3-12	3-12	Added "Replay COM Transmissions" section.
Section 5 - Timers		
5-4	5-4	Rewrote introduction to clarify countdown timer setting retention functionality.
		Updated countdown timer depictions.
		Added "Set Countdown Time via Control Knob" topic to highlight inner and outer knob functions.
	5-5	Updated count up timer depiction.
Section 6 - Audio Sources		
6-2	6-2	Rewrote first and second paragraphs to clarify audio controls functionality.
		Updated Audio Sources display depiction to show control options available with Audio Panel enablement.
		Added information about available audio control functions (when configured).

REV B PAGE	REV C PAGE	DESCRIPTION
6-3	6-3	Updated Audio Sources page depiction.
		Added music to list of auxiliary audio source examples.
		Added COM Playback to list of available functions accessible from the Audio Sources page (depending on configuration).
		Changed segment title to “Enable or Disable an Audio Input/Output” and made minor edits to steps 1 and 2.
6-4	6-4	Added “Set Playback Key Functionality” section.
--	6-6	Added “Control Dual-COM Radios” section.
--	6-9	Added “Understand Fail-safe Operation” section.
Section 7 - Intercom		
7-2	7-2	Revised first sentence of second paragraph to include passenger intercom. Added and applied note 1 regarding feature availability (GTR 205 v2.30 and later) and enablement requirement.
		Updated Intercom display depiction to show control options available with Audio Panel enablement.
7-3	7-3	Revised first and second paragraphs of “Adjust ICS Volume” section to include passenger intercom.
		Updated depiction of intercom volume controls.
7-4	7-4	Revised first sentence of “Enable Pilot Isolation” section to include passengers.
		Updated Intercom page depiction.
Section 10 - Messages		
10-8	10-8	Added the following keys to the list of inputs ignored when “<Name> key is stuck” advisory is present. • COM MIC Swap key • COM Playback key

Overview

The GTR™ 205 COM transceiver and GNC® 215 NAV/COM transceiver employ a 3.2" high-resolution color liquid-crystal display. They comprise the Slimline series of 1.35" by 6.25" panel-mount COM radio products.

GNC 215 shown as typical.



Each unit has 10 W of transmit power. Optional 16 W of transmit power is available with the purchase of a feature enablement.

Unit Configurations

GTR 205



GNC 215



Unit Features

Features vary depending on model and unit configuration.

GTR 205 COM TRANSCEIVER	GNC 215 NAV/COM TRANSCEIVER
• 2-place intercom system¹ • 4-place intercom system^{2, 3} • 8.33 kHz or 25 kHz channel spacing • 3D audio (COM & ICS)¹ • 16 W transmit power capability^{1, 3} • Bearing and distance to COM stations⁴ • Built-in Bluetooth® wireless technology¹ • COM Playback^{2, 3} • Customizable soft key shortcuts¹ • Dual-COM^{2, 3} • Find frequency • Flight timers • Hands-free calling^{1, 5} • Media player^{1, 5} • NVIS³ • Remote COM radio frequency tuning⁶ • Remote management of audio sources^{1, 5} • Reverse frequency look-up⁴ • System messages • VHF radio transceiver	• 2-place intercom system¹ • 8.33 kHz or 25 kHz channel spacing • 16 W transmit power capability^{1, 3} • Bearing and distance to NAVAID and COM stations⁴ • CDI • Customizable soft key shortcuts¹ • NAV frequency for DME tuning⁶ • Find frequency • Flight timers • NAV radio receiver • NVIS³ • Remote COM/NAV radio frequency tuning⁶ • Reverse frequency look-up⁴ • System messages • VHF radio transceiver

¹ Available with system software v2.22 and later.
² Available with system software v2.30 and later.
³ Optional. Requires purchased feature enabled on unit.
⁴ Requires Navigation database and input from a GPS navigator for location-based information.
⁵ Requires pairing with a Bluetooth enabled device.
⁶ Availability dependent upon aircraft interfaces.

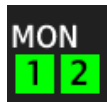
Audio Panel Commands

These commands are available with purchase of the Audio Panel feature enablement.

Dual-COM Commands

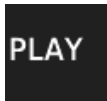


Toggle transmitter selection (COM 1 mic or COM 2 mic).

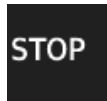


Toggle active COM receiver (COM 1 and/or COM 2).

COM Playback Commands



Play the last saved COM audio clip.



Stop playback.



Play previous clip.
Denotes total number of saved clips.

For information about customizable soft key options, read *Assign Soft Key Shortcuts* in section 2.

Customize Pilot Settings



Unit customization options are accessible via the **MENU** key. For details about specific radio settings and timer functions, refer to the respective section.

MENU OPTIONS

Display Tab

- Manage audio sources¹
- View COM playback¹
- View intercom¹
- View media player¹
- View phone¹
- View flight timer
- Return to basic display format¹
- Enable CDI option²
- Display VOR information²

Setup Tab

- Access COM radio settings
- Access intercom settings³
- Enable device connection via Bluetooth wireless technology¹
- Access media player settings¹
- Access COM playback settings¹
- Assign soft key shortcuts
- Set the display units⁴

System Tab

- View system messages
- Adjust display brightness
- Access database information and update/sync options⁴
- View system information
- View COM status

¹ GTR 205 only.

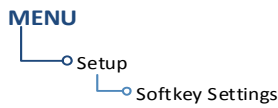
² GNC 215 only. CDI and flight timer functions are mutually exclusive; enabling one automatically disables the other.

³ On GNC 215, intercom controls are accessible from the Setup tab.

⁴ Available only when the database source is configured as Internal.

Assign Soft Key Shortcuts

WHERE TO FIND IT



Customize the default function of the top and bottom soft keys. Options are accessible from the Setup tab.

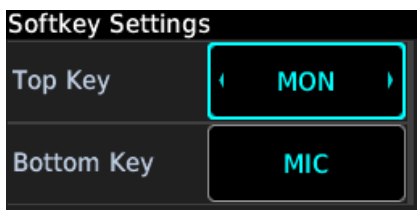
MENU > Setup > Softkey Settings

FEATURE REQUIREMENTS

- GTR 205/GNC 215 software v2.22 or later

FEATURE LIMITATIONS

- Available shortcut options are dependent upon configuration



To assign a soft key shortcut:

1. Select a key using the outer control knob.
2. Select a shortcut option using the inner control knob.

Selections appear at the left of the display upon exiting the menu.

GTR 205 with Dual-COM Soft Key Shortcuts



Soft key commands related to active functions and page navigation still appear as required (e.g.,MSG, BACK, HOME).

Shortcut Options

Not all options may be available.

GNC 215 SHORTCUT OPTIONS

Find	Find COM/NAV	PTT	Push to talk
ICS	Intercom	Blank	Do not display shortcut
NAV VOL	NAV Volume		

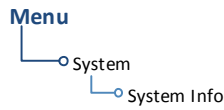
GTR 205 SHORTCUT OPTIONS

Bluetooth	Bluetooth Media/Phone	MON	Monitor COM receiver(s) ¹
COM Playback	COM audio playback ¹	Pilot ISO	Isolation
Find	Find COM	PTT	Push to talk
ICS	Intercom	Wired Music	Wired AUX Media On/Off
MIC	COM transmitter (mic) ¹	Blank	Do not display shortcut

¹ Available only with GTR 205 software v2.30 and later. Requires Audio Panel feature enablement.

View System Information

WHERE TO FIND IT



View information specific to the unit and its software.

MENU > System > System Info

System Info	
Serial Number	000000000
System ID	E7900ABC12345
SW Version	2.30

Refer here when contacting customer service.

System Info

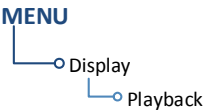
- Serial number
- System ID
- Main software version
- Bluetooth software version¹

¹ GTR 205 only.

Replay COM Transmissions

AVAILABLE WITH: GTR 205

WHERE TO FIND IT



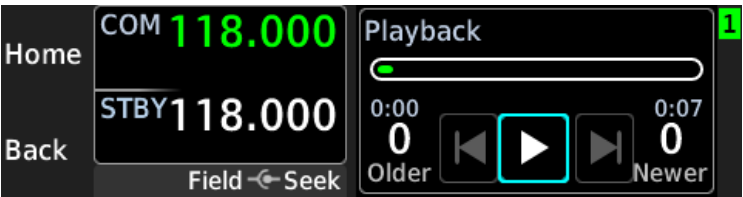
Replay recently received COM transmissions using the COM Playback function.

MENU > Display > Playback

FEATURE REQUIREMENTS

- GTR 205 software v2.30 or later
- Purchased Audio Panel feature enabled on unit

Playback controls appear to the right of the COM display. Pushing the dual concentric knob once sets the knob focus to COM Playback.



Select control options by turning the outer control knob.



Playback Features

1	Playback Controls	3	Current Clip Duration
2	Total Number of Older Clips	4	Total Number of Newer Clips



Playback controls are not available while the unit is recording.

GTR 205 automatically records up to 2.5 minutes of the active COM radio signal for playback. Each recording is saved as a separate audio clip in the unit's internal storage. The unit records over the oldest clip when it reaches capacity.

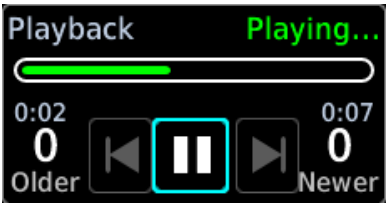
The unit does not retain audio clips over power cycles.

Play Audio Clips

PLAYBACK CONTROLS	
	Play/Pause
	Previous Clip
	Next Clip

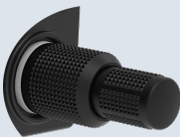
Playback is heard by anyone listening to COM radio. Basic playback functions (Play/Pause, Previous, Next) are accessible via dual concentric knob push.

Control options change according to the current playback state.

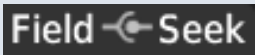


A progress bar shows when playback is complete.

Playback Seek via Control Knob



Turning the inner knob during playback advances the recording 2 seconds at a time.



Stop Playback

STOP

During COM playback, the **STOP** soft key is available when knob focus is set to another page or function.



Playback stops automatically when the COM radio squelch opens and when the pilot or copilot:

- activates the **Pause** control on the Playback display
- begins transmitting on the COM radio
- overrides the squelch by pushing the volume knob (indicated by the "RX" state annunciation)

Set Countdown Timer

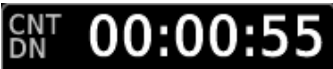
The unit retains the last countdown timer value setting following a power cycle. For example, if the timer is set to 5 minutes, then the default timer value following power cycle becomes 5 minutes.



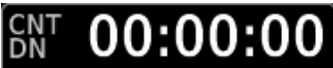
1. Set direction to count down (CNT DN) using the outer control knob.



2. Specify countdown time using the inner and outer control knobs. The timer is factory set to 1 minute.



3. Select **Start**.



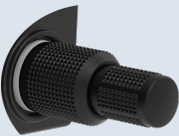
Timer flashes as the value reaches zero (00:00:00).



Upon reaching zero, timer continues counting as a negative value until you select **Stop**.

To reset timer, push the **Reset** soft key.

Set Countdown Time via Control Knob

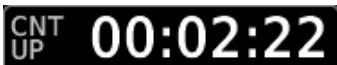


Turning the outer knob moves the cursor between hours, minutes, and seconds.

Turning the inner knob adjusts the highlighted value. Pushing the knob enters the timer value.

Time ← Push ENT

Set Count Up Timer

A digital display with a black background. On the left, the text 'CNT UP' is shown in white, with 'CNT' on the top line and 'UP' on the bottom line. To the right of this, the time '00:02:22' is displayed in large white digits.

1. Set direction to count up (CNT UP) using the outer control knob (if necessary).
2. Select **Start**.

To reset timer, push the **Reset** soft key.

Manage Audio Sources

WHERE TO FIND IT

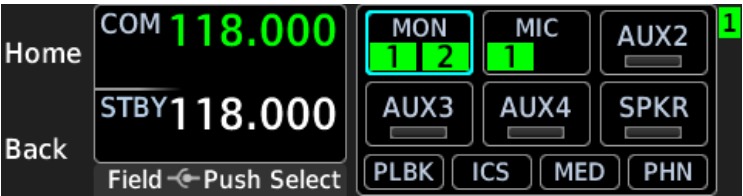


Control audio input sources (e.g., other radios, wired music) and output to a cabin speaker. Access Audio Sources from the Display tab.

MENU > Display > Audio Sources

Audio controls appear to the right of the COM display. Pushing the dual concentric knob once sets the knob focus to Audio Sources and displays additional controls (if available).

GTR 205 with Audio Panel Enablement



Audio control key labels are customizable and dependent upon installer configuration.

When configured, audio controls allow you to:

- Select between internal and external COM radios using MIC and MON functions
- Toggle audio output to the cabin speaker on/off
- Toggle auxiliary audio inputs on/off

Audio Controls



Example of audio control keys.

From here, you may toggle an auxiliary audio source (e.g., dual-COM, other radios, music) and/or the cabin speaker on or off.

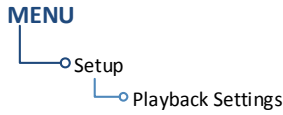
Depending on configuration, COM Playback, Intercom, Media, and Phone functions are accessible from here.

ENABLE OR DISABLE AN AUDIO INPUT/OUTPUT

1. Select the input/output using the outer control knob.
 - For auxiliary audio: Select the appropriate toggle key.
 - For cabin speaker: Select **SPKR**.
2. Toggle the input/output on or off by pushing the inner knob.

Set Playback Key Functionality

WHERE TO FIND IT



Set the function of the **COM Playback** key. Options are accessible via the Setup tab.

MENU > Setup > Playback Settings

FEATURE REQUIREMENTS

- *GTR 205 software v2.30 or later*
- *Purchased Audio Panel feature enabled on unit*

The Audio Panel enablement provides two control options: Open Playback Page and Play Last Message.

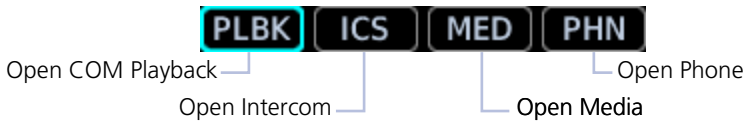
CONTROL OPTION	KEY LABEL
Open Playback Page	PLBK
Play Last Message	PLAY

On the Audio Sources display, the label of the **COM Playback** key changes to reflect the current selection.

OPEN PLAYBACK PAGE

Selecting this option provides direct access to the COM Playback display from Audio Sources. This is the default control setting.

Select **PLBK** using the outer control knob and then push the inner knob.



PLAY LAST MESSAGE

Selecting this option adds a control for playing the most recent COM audio clip.

Select **PLAY** using the outer control knob and then push the inner knob.

During COM playback:

- **STOP** and **OLDR#** soft keys are available
- **PLAY** key label changes to "OLDR"
- Selecting **OLDR** plays the previous audio clip or ends playback if no clip is available

Play Last Message Function Active



Control Dual COM Radios

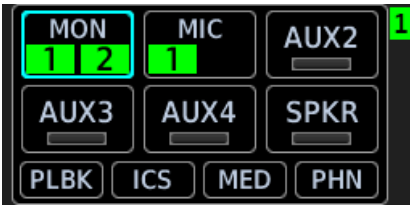


If configured for dual-COM radios, you may toggle the active COM transmitter and/or related COM receiver(s) at any time using the associated audio controls.

FEATURE REQUIREMENTS

- GTR 205 software v2.30 or later
- Purchased Audio Panel feature enabled on unit

Selecting **MIC 1** or **MIC 2** sets the COM #1 or COM #2 transmitter and related COM receiver (MON 1 or MON 2), allowing received audio to be heard over the headset.



Selecting **MON** allows you to monitor the other COM receiver. The mic-selected COM receiver is always monitored.

The mic-selected transmitter (MIC 1 or MIC 2) appears in the icon bar.

To switch the COM transmitter and/or receiver:

1. Select the input using the outer control knob.
 - For transmitter selection: Select **MIC**.
 - For active COM receiver: Select **MON**.
2. Toggle the active selection by pushing the inner knob.
 - Transmitter options: MIC 1 or MIC 2.
 - Receiver options: MON 1 and/or MON 2.



For convenience, the unit provides soft key shortcuts for dual-COM radio commands.

MENU > Setup > Softkey Settings, and select **MIC** and/or **MON** for the top and/or bottom key(s).

Read more about available shortcut options in *Assign Soft Key Shortcuts*.

Understand Fail-safe Operation

FAIL-SAFE MODE CONNECTIONS	
DEVICE	INPUT ¹
Pilot headset (left) ¹	AUX 1 ²
Pilot microphone	COM Audio Out ³
COM TX key	Mic 1 key

If the unit experiences a failure or loss of power, a fail-safe circuit connects the pilot's headset and microphone directly to a second COM transceiver.

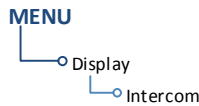
Connections automatically re-route to their previous designations once unit operation is restored.

Audio is not available on the speaker during fail-safe operation.

¹ Actual input labels dependent upon installer configuration.
² Connection not used if the unit is configured for an external audio panel (i.e., the AUX 1 input will not be heard).
³ Connection not used if the unit is configured as an internal audio panel (i.e., the pilot microphone will not be heard).

View Intercom

WHERE TO FIND IT

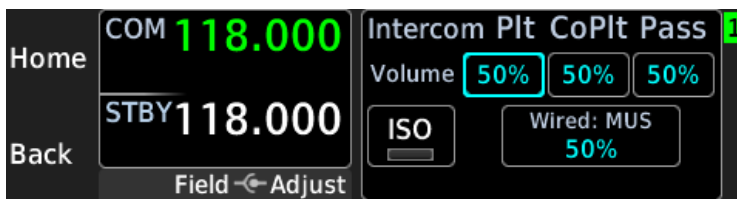


Allow the copilot to hear what the pilot hears. Intercom is accessible from the Display tab.

MENU > Display > Intercom

Controls for pilot, copilot, and passenger¹ intercoms appear to the right of the COM display. Pushing the dual concentric knob once sets the knob focus to Intercom.

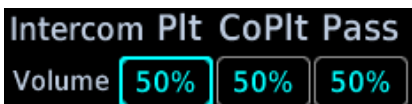
GTR 205 with Audio Panel Enablement



Select control options by turning the outer control knob. The volume control for the pilot's intercom is selected by default. An additional volume control is available for installations wired for intercom music audio.

¹ Passenger intercom available with GTR 205 v2.30 and later. Requires Audio Panel feature enablement.

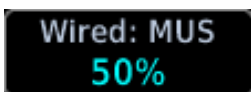
Adjust ICS Volume



Volume may be set separately for pilot, copilot, and passenger intercoms. The unit retains volume settings over power cycles.

Adjust intercom volume using the inner and outer control knobs. Turn the outer knob to select the recipient (pilot, copilot, or passenger). Turn the inner knob to set the volume level according to your preference.

Adjust ICS Music Volume



Select the volume control to set wired intercom music volume to a preferred level.

Volume displays as a percentage of the maximum volume, with 0% being muted and 100% being maximum volume.

Turn the outer knob to select **Wired: MUS**. Turn the inner knob to set the volume level according to your preference. This control is available only when the unit is hardwired to a music audio source.

The unit retains music volume settings over power cycles.

Enable NAV Audio

AVAILABLE WITH: GNC 215

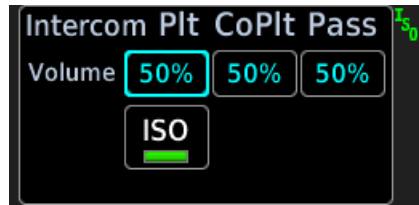


Enable NAV audio to hear Morse code identifier tones over the intercom.

Select **NAV** by turning the outer control knob. Push the inner knob to enable NAV audio.

Enable Pilot Isolation

AVAILABLE WITH: GTR 205



"ISO" icon indicates when Isolation mode is active.

Isolate pilot communication from the copilot and passengers.

Select **ISO** by turning the outer control knob. Push the inner knob to enable pilot isolation mode.

ADVISORY	CONDITION	CORRECTIVE ACTION
<Name> key is stuck.	System detects the indicated bezel key is depressed for at least 30 seconds. It will now ignore this input. Includes: • Bottom soft key • COM MIC Swap key • COM Playback key • Flip-flop key • Menu key • MON key • Top soft key	Push the indicated key again. If it remains stuck, contact dealer for service.
<Dual concentric inner/Volume> knob push is stuck.	System detects the indicated knob is depressed for at least 30 seconds. It will now ignore this input.	Push the knob again. If it remains stuck, contact dealer for service.

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