

GTR 200/200B

Pilot's Guide



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This manual reflects the operation of System Software version 3.30, or later. Some differences in operation may be observed when Comparing the information in this manual to later software versions.

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LIMITED WARRANTY

For warranty information, visit <http://www.garmin.com/en-US/legal/aviation-limited-warranty>.



WARNING: For safety reasons, GTR 200/200B operational procedures must be learned on the ground.



CAUTION: The Garmin GTR 200/200B 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 GTR 200/200B display uses a lens coated with a special anti-reflective coating that is very sensitive to skin oils, waxes, and abrasive cleaners. **CLEANERS CONTAINING AMMONIA WILL HARM THE ANTI-REFLECTIVE COATING.** It is very important to clean the lens using a clean, lint-free cloth and an eyeglass lens cleaner that is specified as safe for anti-reflective coatings.



NOTE: All visual depictions contained within this document, including screen images of the GTR 200/200B bezel and displays, are subject to change and may not reflect the most current GTR 200/200B software. Depictions of equipment may differ slightly from the actual equipment.



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), an RF safety separation distance of 26 cm from the antenna should be maintained for an RF field strength exposure to persons of less than the 10W/m² occupational safety limit.



NOTE: Installations canadiennes : Selon les Cahiers des charges canadien sur les normes radioélectriques 102 (RSS 102), une distance sécuritaire de l'énergie radiofréquence (RF) de 26 cm par rapport à l'antenne doit être en place pour que la puissance du champ RF soient de moins de 10W/m² afin de respecter la limite sécuritaire d'exposition des individus.



NOTE: The GTR COM antenna should be installed at least 20cm from the front panel of the unit.

NOTE

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes RSS sans licence du ministère Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) ce périphérique ne doit pas causer d'interférences et (2) doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil.

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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter meets both portable and mobile limits as demonstrated in the RF Exposure Analysis. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

Anatel Warning:

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

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Record of Revisions

Part Number	Revision	Date	Description
190-01553-01	A	07/2013	Initial release
	B	09/2013	Updated for system software 2.12 Added Key Beep volume control Added ICS MUTE 🎵
	C	09/2014	Updated for system software 2.60. Added Cockpit Noise setting, Bass Boost setting, and Equalizer setting.
	D	04/2017	Additions to Setup Menu.
	E	09/2018	Added GTR 200B support.
	F	04/2019	Added Anatel Warning
	G	05/2019	Added warranty link
	H	09/2019	Added Note regarding installations where the intercom is enabled/disabled.

TABLE OF CONTENTS

DESCRIPTION	1
Display	1
Controls	2
Softkeys	3
BASIC OPERATION	4
Power-UP	4
COM Radio	4
Selecting a COM Frequency:	4
Adjusting Volume:	5
Standby COM Frequency Monitoring.....	5
Monitoring the Standby COM Frequency:	5
COM Frequency Storage.....	5
Saving a COM Frequency:	6
Editing a Saved COM Frequency:	7
Accessing the COM Frequency Groups:	8
Emergency Channel	9
Quick Tuning the Emergency Channel:	9
Stuck Mic	9
MAIN MENU	10
Accessing/Using the Main Menu:	10
Media Page (GTR 200B only)	11
Accessing/Using the MEDIA Page:.....	11
Telephone Page (GTR 200B only)	12
Accessing/Using the TELEPHONE Page:	12
Bluetooth® Page (GTR 200B only)	13
Bluetooth Pairing:.....	13
Setup Menu	14
Accessing/Using the SETUP Menu:	15
3D Audio	15
Enabling/Disabling 3D Audio:.....	16
About Screen	17
Accessing the ABOUT Menu:.....	17
ICS CONFIGURATION	18
Setting the ICS Volume:	18
Setting the ICS Squelch:	18
Enable/disable Pilot Isolation:.....	18

APPENDIX 19

Softkey Configuration 19

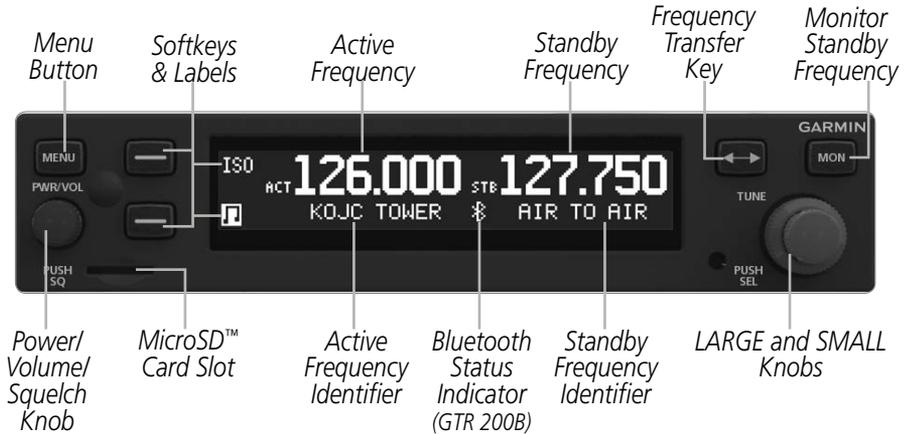
 Configuring Softkeys: 19

Troubleshooting 20

 Messages..... 21

DESCRIPTION

The GTR 200/200B is a VHF communications transceiver with a built in stereo intercom. The GTR 200/200B operates in the aviation voice band, from 118.000 to 136.975 MHz, in 25 kHz steps.



GTR 200/200B Front Panel

DISPLAY

Display Item	Description
Softkey Labels	Softkey Function Label, e.g., Pilot Isolation (ISO), MUSIC ON/OFF (🎵), etc.
Active Frequency	Active Frequency (MHz.kHz) preceded by a ACT annunciation.
Active Frequency Identifier	Active Frequency Identifier. When applicable, four letter ICAO identifier followed by the Frequency Type.
Standby Frequency	Standby Frequency (MHz.kHz) preceded by a STB annunciation.
Standby Frequency Identifier	Standby Frequency Identifier. When applicable, four letter ICAO identifier followed by the Frequency Type.
Bluetooth® Status Indicator (GTR 200B Only)	Bluetooth Status Indicator depicts state of Bluetooth function.

CONTROLS

Control	Description
Menu Button	Press to view Menu options on the right side of the screen. (ICS VOL, ICS SQ,  VOL, SETUP,  SOURCE*, MEDIA*, TELEPHONE*, USER FREQ, BLUETOOTH* and ABOUT). * GTR 200B only
Power/Volume/Squelch Knob	<p>The Power/Volume/Squelch knob located in the bottom 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/Volume/Squelch knob to toggle automatic squelch control On/Off for the COM radio.</p> <p>The GTR 200/200B radio receiver features an automatic squelch that rejects many localized noise sources. You may override the squelch function by pressing the Power/Volume/Squelch knob. This facilitates listening to a distant station or setting the desired volume level.</p> <p>To override the radio receiver automatic squelch, press the Power/Volume/Squelch knob momentarily. Press the Power/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.</p>
Softkeys	User-defined Softkeys, defined in configuration mode. Softkeys are also used for menu navigation.
MicroSD™ Card Slot	Used for updating unit software.
Frequency Transfer Key	Press and release the Frequency Transfer Key to switch between the active (left-most) and standby (right-most) frequency. Switching between COM frequencies is disabled while transmitting. Press and hold the Frequency Transfer Key for approximately three seconds to tune the emergency frequency (121.500 MHz).
Monitor Standby Frequency Key	The MON (Monitor) key will engage the monitor function where the Standby frequency may be monitored while still listening to the Active frequency.

Control	Description
LARGE and SMALL Knobs	The LARGE right (MHz) and SMALL right (kHz) knobs are used for tuning frequencies and data entry. Press the SMALL Knob to select menu items or access the Frequency Menu from the main screen.

SOFTKEYS

The GTR 200/200B features two User-defined softkeys. Softkeys are defined in Configuration Mode, see the Appendix for information on configuring softkeys. Softkeys can be disabled or assigned to one of the following:

- **PILOT PTT** ( **PTT**) - Pilot Push-to-Talk can be used in place of or as a back up to a remote Push-to-Talk switch. Not available when the intercom is configured OFF.
- **MUSIC ON/OFF** ( **M**) - Turns music input ON/OFF. Press and hold to toggle COM Mute Music. Not available when the intercom is configured OFF.
- **USER LIST** ( **USA**) - Provides quick access to the COM User Frequencies.
- **PILOT ISOLATION** ( **ISO**) - Isolates the Pilot from ICS Communication and music. Not available when the intercom is configured OFF.
- **TUNE EMERGENCY** ( **EMR**) - Quickly tunes and activates the emergency frequency (121.500 MHz).
- **MEDIA CONTROLS** ( **MED**) (GTR 200B only) - Provides quick access to the Bluetooth media controls. Not available when the intercom is configured OFF.
- **PLAY/PAUSE CONTROL** ( **▶**) (GTR 200B only) - Play/Pause control for Bluetooth media. Press and hold for quick access to the Bluetooth media controls. Not available when the intercom is configured OFF.

BASIC OPERATION

POWER-UP

Turn the GTR 200/200B on by either turning the **Power/Volume/Squelch** knob clockwise or, if installed, turning on the master switch that powers the radios.

COM RADIO

New frequencies are first selected as a Standby frequency and then toggled to the Active side with the **Frequency Transfer Key**. While viewing the Standby frequency display, use the **LARGE** and **SMALL** knobs on the right side of the GTR 200/200B to select the desired frequency. Turn the **LARGE** and **SMALL** knobs, clockwise to increase and counterclockwise to decrease frequency values. Standby frequency selections is not inhibited during transmit.

When connected to a device that provides nearby frequency information, nearby station identifiers will be shown for the selected frequency.



*Identifier and Type Shown
for the Selected Frequency*

COM Frequency Selection

Selecting a COM Frequency:

- 1) Turn the **LARGE** Knob to change the value in one MHz increments.
- 2) Turn the **SMALL** Knob to change the value in 25 kHz increments.
- 3) Press the **Frequency Transfer Key** to toggle the Standby frequency to the Active frequency.

Adjusting Volume:

Turn the **Power/Volume/Squelch** knob clockwise to increase volume and counter-clockwise to decrease volume.

STANDBY COM FREQUENCY MONITORING

The Frequency Monitoring function allows you to monitor the Standby frequency for activity, while listening to the Active frequency. When the Active frequency receives a signal, the unit will switch automatically to the Active frequency. The Active frequency quality is not affected.

Monitoring the Standby COM Frequency:

Press the **MON** Key, to listen to the Standby frequency. A small 'M▶' is displayed above the 'STB' to the left of the Standby frequency. Press the **MON** Key again to stop monitoring.



Standby COM Frequency Monitor Annunciation

COM FREQUENCY STORAGE

Any frequency may be saved into the COM User Frequency Group. The COM User Frequency database can hold up to 20 frequencies. Press the **USR** Softkey or Press the **SMALL** Knob to access the frequency groups.

Saving a COM Frequency:

- 1) Press the **SMALL** Knob and turn the **LARGE** Knob to highlight **USER**.
Or: Press the **USR** Softkey if configured.
Or: Press **MENU**, and turn the **LARGE** Knob to highlight **USER FREQ**. Press the **SMALL** Knob to select. Skip to step 3.
- 2) Turn the **SMALL** Knob to move the cursor to highlight **EDIT** and press the **SMALL** Knob to select EDIT.



- 3) Turn the **LARGE** Knob to highlight ADD and press the **SMALL** Knob to select ADD.
- 4) Turn the **SMALL** Knob to select a character, turn the **LARGE** Knob to move the cursor to the next field.



- 5) Press the **SMALL** Knob to accept the name entry.
- 6) Turn the **LARGE** Knob to move the cursor to the FREQ Field.
- 7) Turn the **SMALL** Knob to tune the desired MHz value.
- 8) Turn the **LARGE** Knob to move the cursor to the kHz Field.



- 9) Turn the **SMALL** Knob to tune the desired kHz value.
- 10) Press the **SMALL** Knob to accept entry.
- 11) Turn the **LARGE** Knob to highlight SAVE and press the **SMALL** Knob to Save.

Editing a Saved COM Frequency:

- 1) Press the **SMALL** Knob and turn the **LARGE** Knob to highlight **USER**.
Or: Press the **USR** Softkey if configured.
Or: Press **MENU**, and turn the **LARGE** Knob to highlight **USER FREQ**. Press the **SMALL** Knob to select. Skip to step 3.
- 2) Turn the **SMALL** Knob to move the cursor to highlight **EDIT** and press the **SMALL** Knob to select EDIT.
- 3) Turn the **LARGE** Knob to highlight EDIT for the desired entry and press the **SMALL** Knob to select.



- 4) Turn the **SMALL** Knob to begin editing, turn the **LARGE** Knob to move the cursor to the next field.
- 5) Press the **SMALL** Knob to accept the name entry.
- 6) Turn the **LARGE** Knob to move the cursor to the **FREQ** Field.
- 7) Turn the **SMALL** Knob to tune the desired MHz value.
- 8) Turn the **LARGE** Knob to move the cursor to the kHz Field.
- 9) Turn the **SMALL** Knob to tune the desired kHz value.
- 10) Press the **SMALL** Knob to accept entry.
- 11) Turn the **LARGE** Knob to highlight **SAVE** or **DELETE** and press the **SMALL** Knob to save, or delete the entry, or press the **CANCEL** Softkey to cancel and exit.

Accessing the COM Frequency Groups:

- 1) Press the **SMALL** knob from the COM display to access the Frequency Groups.
- 2) Turn the **LARGE** knob to select a Frequency Group option.



Frequency Groups

COM Frequency Groups

- **USER Group** - select to view the COM User Frequency group.
 - **RECENT Group**- select to view a list of the 20 most recently used frequencies.
 - **KXXX (Airport Groups)** - When connected to a device that supplies position and frequency data, up to 10 flight plan and/or nearby airport frequency groups are automatically received and presented on the GTR 200/200B.
- 3) Turn the **SMALL** Knob to move the cursor to the desired frequency.
 - 4) Press the **SMALL** Knob to tune the highlighted frequency as the Standby frequency. Press the **Frequency Transfer Key** to tune as the Active Frequency.

EMERGENCY CHANNEL

The GTR 200/200B offers quick tuning of the Emergency Channel by holding down the **Frequency Transfer** Key for approximately three seconds.

Quick Tuning the Emergency Channel:

Press and hold the **Frequency Transfer Key** for approximately three seconds or press the **EMR** Softkey if configured. The Emergency Channel will be inserted into the Active Frequency position and the previous Active Frequency, will become the Standby Frequency.

STUCK MIC

The GTR 200/200B helps protect you from a situation where the microphone may get stuck in the ON or Transmit position. If the microphone is keyed for longer than 35 seconds, the GTR 200/200B will return to the receive mode on the selected frequency.

A “PILOT or COPILOT PTT KEY STUCK” message will be displayed until the transmit key is released. The Alert will be displayed until the MIC is no longer stuck.



During a PILOT PTT KEY STUCK situation if one of the softkeys has been configured as PTT, transmit capability will be available through the PTT softkey after the 35 second time-out.

MAIN MENU

The Menu provides configuration options for the Internal Communications System.

Menu Item	Description
ICS VOL	Increases/decreases the intercom volume.
ICS SQ	Increases/decreases the intercom squelch.
🎵 VOL	Increases/decreases the music volume.
🎵 SOURCE*	Selects the intercom music source (WIRED or BT (Bluetooth)).
MEDIA*	Displays the Bluetooth Media page.
TELEPHONE*	Displays the Bluetooth Telephone page.
SETUP	Displays the Setup menu.
USER FREQ	Displays the User Frequencies page.
BLUETOOTH*	Displays the Bluetooth Connection and Pairing Management page
ABOUT	Displays the About page.

* GTR 200B only

Accessing/Using the Main Menu:

Press the **MENU** Key to access the Menu. Use the **LARGE** Knob to navigate the menu and **SMALL** Knob to make a selection or adjust the level. Press the **BACK** softkey to return to the previous screen.



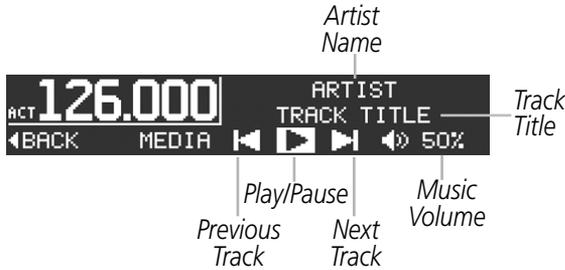
Main Menu

MEDIA PAGE (GTR 200B ONLY)

The Media page displays information about the currently playing media and the media player controls.



NOTE: Media page is only available in installations where the intercom is enabled.



Media Page

Accessing/Using the MEDIA Page:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight MEDIA and press the **SMALL** Knob.
- 3) Turn the **LARGE** Knob to navigate. Turn or Press the **SMALL** Knob to change or make a selection.
- 4) Press the **BACK** Softkey to return to the Main Menu.

TELEPHONE PAGE (GTR 200B ONLY)

The Telephone page displays ANSWER and DECLINE options during an incoming call.



NOTE: Telephone page/feature is only available in installations where the intercom is enabled.



Telephone Page (Incoming Call)

Once the call is active, the telephone volume and disconnect (HANG UP) options are displayed.



Disconnect Call Telephone Volume

Telephone Page (Active Call)

Also a Telephone Call Indicator is displayed on the default page.



Telephone Call Indicator

Default Page (Telephone Call Indicator)

Accessing/Using the TELEPHONE Page:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight TELEPHONE and press the **SMALL** Knob.
- 3) Turn the **LARGE** Knob to navigate. Turn or Press the **SMALL** Knob to change or make a selection.
- 4) Press the **BACK** Softkey to return to the Main Menu.

BLUETOOTH® PAGE (GTR 200B ONLY)

The Bluetooth Page displays the Bluetooth connection or an option to PAIR NEW DEVICE.



NOTE: Bluetooth® page/feature is only available in installations where the intercom is enabled.



Bluetooth Page (Pairing New Device)

The Bluetooth Status Indicator is displayed on the bottom of the default page. When the Bluetooth symbol is displayed a Bluetooth device is connected. When the Bluetooth symbol is not displayed a Bluetooth device is not connected. When the Bluetooth symbol is flashing the unit is in pairing mode.



Bluetooth Status Indicator

Default Page (Bluetooth Status Indicator)

Bluetooth Pairing:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight BLUETOOTH and press the **SMALL** Knob.
- 3) With PAIR NEW DEVICE selected press the **SMALL** Knob to put the GTR 200B in pairing mode. The GTR 200B will stay in pairing mode for 2 minutes. The GTR’s Bluetooth name is displayed on the second line in pairing mode.



Bluetooth Page (Pairing Mode)

- 4) On the device you want to pair, find the GTR’s Bluetooth name in the device’s Bluetooth settings and initiate the pairing process.

SETUP MENU

The SETUP menu provides configuration options for music muting (COM MUTE 🎵), ICS muting (COM ICS MUTE), 3D Audio options (COM 3D AUDIO, and ICS 3D AUDIO), KEY BEEPS and Display CONTRAST level.



SETUP Menu

- **COM MUTE 🎵 (ON/OFF)** - When ON, music will be muted when Communication is received. Only available when ICS is configured.
- **COM ICS MUTE (ON/OFF)** - When ON, ICS Communication will be muted when Communication is received. Only available when ICS is configured.
- **ICS MUTE 🎵 (ON/OFF)** - When ON, music will be muted when the intercom is active. Only available when ICS is configured.
- **🎵 MUTE LEVEL (FULL/HALF)** - When FULL, music will not be heard when muted by other audio. When HALF, music volume will be reduced when muted by other audio. Only available when ICS is configured.
- **COM 3D AUDIO (ON/OFF)** - When ON, 3D audio is enabled for received transmissions when Standby COM Channel monitoring is active. Only available when ICS is configured.
- **ICS 3D AUDIO (ON/OFF)** - When ON, 3D audio is enabled for ICS Communication. Only available when ICS is configured.
- **COCKPIT NOISE (NRML/HIGH)** - For very high noise cockpit environments select the HIGH setting, otherwise select NRML.
- **BASS BOOST (OFF/MED/HIGH)** - Adds BASS boost to the music input. OFF is no boost, MED and HIGH add medium and high boost.

- **EQUALIZER (OFF/RCK/CLS/POP)** - Adjusts the music input audio response similar to an equalizer with presets. OFF does not change response, RCK for rock music, CLS for classical music, and POP for pop music.
- **KEY BEEPS (OFF/0-100%/COM)** - Key Beep volume can be configured OFF, as volume value (0-100%), or slaved to COM volume.
- **CONTRAST (-10 to +10)** - Adjusts the display contrast level.

Accessing/Using the SETUP Menu:

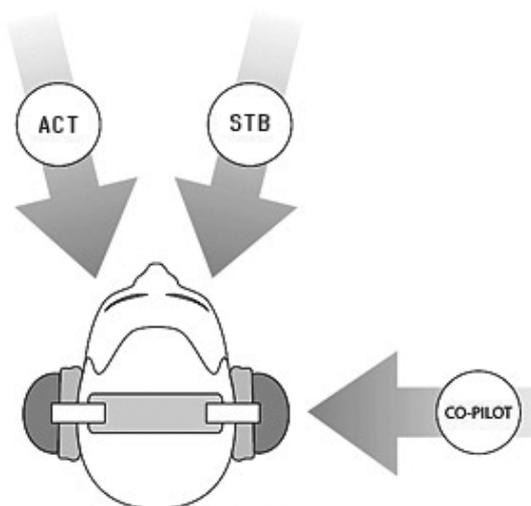
- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight SETUP and press the **SMALL** Knob.
- 3) Turn the **LARGE** Knob to navigate. Turn or Press the **SMALL** Knob to change a selection.
- 4) Press the **BACK** Softkey to return to the Main Menu.

3D AUDIO

3D Audio is useful when multiple audio sources are present. By using different responses in each ear, 3D audio processing creates the illusion that each audio source is coming from a unique location or seat position.

Because this feature uses different signals for left and right channels, it requires wiring for stereo intercom and stereo headsets. If 3D audio is activated when mono headsets are in use, the listener will still hear all audio sources; however, there is no benefit from location separation.

During normal operation and with 3D Audio enabled, the listener hears the Active Frequency at the 12 o'clock position. If the Standby is selected for monitoring, the listener hears the Active at 11 o'clock and the Standby at the 1 o'clock position. Intercom positions are processed to sound like their relative seat location. By default, the GTR 200/200B assumes the pilot sits in the left seat. Pilot seat location can be changed in configuration mode, see the GTR 200/200B Installation Manual for details.



3D Audio

Enabling/Disabling 3D Audio:

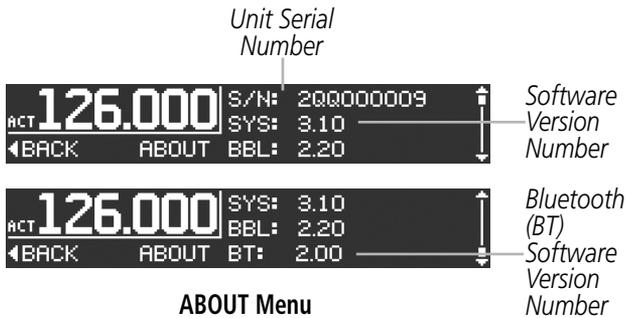
- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight **SETUP** and press the **SMALL** Knob.
- 3) Turn the **LARGE** Knob to navigate to **COM 3D AUDIO** or **ICS 3D AUDIO**. Turn the **SMALL** Knob to toggle ON/OFF.
- 4) Press the **BACK** Softkey to return to the Main Menu.

ABOUT SCREEN

The ABOUT screen shows the unit Serial Number, System Software version number, and Bluetooth Software version number.

Accessing the ABOUT Menu:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight ABOUT and press the **SMALL** Knob.
- 3) Press the **BACK** Softkey to return to the Main Menu.



ICS CONFIGURATION

The GTR 200/200B features a stereo integrated Intercom System (ICS). The GTR 200/200B may also be installed and configured for Keyed ICS operations. Keyed ICS is typically used in an extremely noisy environments, such as an open cockpit. The ICS is enabled or disabled in Configuration Mode. See the GTR 200/200B Installation Manual for installation and configuration details.

Setting the ICS Volume:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight the **ICS VOL** field.
- 3) Turn the **SMALL** Knob clockwise to increase, or counter clockwise to decrease volume.



Setting the ICS Squelch:

- 1) Press the **MENU** key.
- 2) Turn the **LARGE** Knob to highlight the **ICS SQ** field.
- 3) Turn the **SMALL** Knob clockwise to increase, or counter clockwise to decrease squelch. Turn the **SMALL** Knob one click counter clockwise past 0% to enable ICS auto squelch.



NOTE: When Squelch is set to 0%, squelch is always open and when set to 100% squelch is always closed.

Enable/disable Pilot Isolation:

Press the Pilot Isolation **ISO** Softkey if configured. Pilot Isolation mode is only available when the Pilot Isolation Softkey is configured.

APPENDIX

SOFTKEY CONFIGURATION

The GTR 200/200B features two User-defined softkeys. Softkeys are defined in Configuration Mode, see below for configuring softkeys. Softkeys can be disabled or assigned to one of the following:

- **PILOT PTT** () - Pilot Push-to-Talk can be used in place of or as a back up to a remote Push-to-Talk switch. Not available when the intercom is configured OFF.
- **MUSIC ON/OFF** () - Turns music input ON/OFF. Press and hold to toggle COM Mute Music. Not available when the intercom is configured OFF.
- **USER LIST** () - Provides quick access to the COM User Frequencies.
- **PILOT ISOLATION** () - Isolates the Pilot from ICS Communication. Not available when the intercom is configured OFF.
- **TUNE EMERGENCY** () - Quickly tunes and activates the emergency frequency (121.500 MHz).
- **MEDIA CONTROLS** () (GTR 200B only) - Provides quick access to the Bluetooth media controls. Not available when the intercom is configured OFF.
- **PLAY/PAUSE CONTROL** () (GTR 200B only) - Play/Pause control for Bluetooth media. Press and hold for quick access to the Bluetooth media controls. Not available when the intercom is configured OFF.

Configuring Softkeys:

- 1) Press and hold the **SMALL** Knob while applying power to the unit, by either turning the **Power/Volume/Squelch** knob clockwise or, if installed, turning on the avionics master switch.
- 2) Turn the **LARGE** Knob to highlight SOFTKEY SETUP and press the **SMALL** Knob to select.

- 3) Turn the **LARGE** Knob to toggle between the Key 1 or Key 2 field.
- 4) Turn the **SMALL** Knob to highlight one of the following function: (PILOT PTT, PILOT ISOLATION, MUSIC ON/OFF, USER LIST, or TUNE EMERGENCY).



NOTE: Both softkeys cannot select the same function (except Disabled).

- 5) Press the BACK Softkey to exit the Softkey Setup menu.
- 6) Power off the unit and back on to save the softkey settings.

TROUBLESHOOTING

Problem	Possible Cause	Action
GTR 200/200B does not power on	No power to the GTR 200/200B	Check power connections, breakers, and main avionics switch
	Faulty electrical wiring or connection	Perform electrical system test
GTR 200/200B does not transmit	No power to COM	Check power connections
	Mic key connection	Check Mic key input connection
Intercom doesn't function	It can be enabled or disabled via configuration mode	Check connections. Refer to the installation manual for wiring and headset test procedures.
	No voice activation, or if must talk too loud	Check ICS SQ and ICS VOL levels on the menu page
	A headset that has a MIC Telephone switch option turned on	On the headset, turn the MIC Telephone switch to the Off position, and power cycle the GTR200

MESSAGES

When a Message has been issued by the unit, the Message will be shown on the display. Messages are provided as an aid in troubleshooting the radio functions.

Message	Description	Action
VOLUME KEY IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
SOFTKEY #1 IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
SOFTKEY #2 IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
FREQ SWAP KEY IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
MENU KEY IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
ROTARY KNOB KEY IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.
MON KEY IS STUCK	The key has been in the pressed position for at least 30 seconds. This key will now be ignored.	Contact Garmin for service if this message persists.

Message	Description	Action
MULTIPLE KEYS STUCK	Multiple keys have been in the pressed position for at least 30 seconds. These keys will now be ignored.	Contact Garmin for service if this message persists.
PILOT PTT KEY STUCK	The Pilot Push To Talk key/switch has been in the pressed position for at least 35 seconds. This key will now be ignored.	Verify Push To Talk key/switch is not stuck. Refer to the installation manual for installation wiring tests. Contact Garmin for service if this message persists.
COPILOT PTT KEY STUCK	The Copilot Push To Talk key/switch has been in the pressed position for at least 35 seconds. This key will now be ignored.	Verify Push To Talk key/switch is not stuck. Refer to the installation manual for installation wiring tests. Contact Garmin for service if this message persists.
BOTH PTT KEY STUCK	Both Push To Talk key/switches have been in the pressed position for at least 35 seconds. These keys will now be ignored.	Verify Push To Talk key/switches are not stuck. Refer to the installation manual for installation wiring tests. Contact Garmin for service if this message persists.
TX HARDWARE FAULT	An internal hardware problem is preventing COM transmission.	Contact Garmin for service if this message persists.
REDUCED TX POWER - LOW VOLTS	Transmit power reduced because input voltage is too low.	Verify input voltage meets minimum requirement identified in installation manual. Contact Garmin for service if message persists.
REDUCED TX POWER - HI TEMP	Transmit power reduced because internal temperature is too high.	Wait for unit to cool. Add supplemental cooling if problem persists.
INPUT VOLTAGE TOO LOW	Transmit disabled because input voltage is too low.	Verify input voltage meets minimum requirement identified in installation manual. Contact Garmin for service if message persists.

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