# Goodmans

# GNAV20 User's Guide



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# CHAPTER 1 – GNAV20 OVERVIEW



# Figure 1. Display Unit

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# **CHAPTER 2 - HOW GPS WORKS**

**The Global Positioning System (GPS)** is a worldwide radio-navigation system formed from a constellation of 24 satellites and their ground stations. GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS.

GPS satellites circle the earth twice a day in a very precise orbit and transmit signal information to earth. GPS receivers take this information and use triangulation to calculate the user's exact location. Essentially, the GPS receiver compares the time a signal was transmitted by a satellite with the time it was received. The time difference tells the GPS receiver how far away the satellite is. Now, with distance measurements from a few more satellites, the receiver can determine the user's position and display it on the unit's electronic map.

A GPS receiver must be locked on to the signal of at least three satellites to calculate a 2D position (latitude and longitude) and track movement. With four or more satellites in view, the receiver can determine the user's 3D position (latitude, longitude and altitude). Once the user's position has been determined, the GPS unit can calculate other information, such as speed, bearing, track, trip distance, distance to destination, sunrise and sunset time and more.

GPS works in the following simplified way:

- 1. The basis of GPS is "triangulation" from satellites.
- 2. To "triangulate," a GPS receiver measures distance using the travel time of radio signals from 3 or more satellites.
- 3. To measure travel time, GPS Receiver needs very accurate timing in its circuitry.
- 4. A correction must also be made for any delays the signal experiences as it travels through the atmosphere.
- 5. Along with distance, the exact locations of the satellites in space are required for the calculation.
- 6. The firmware that runs the GPS Receiver takes all these inputs and calculates the co-ordinates of the user's location.

# **CHAPTER 3 - GETTING STARTED**

The GNAV20 allows for quick and easy entry of destination information. Turn-by-turn driving instructions are clearly displayed on the LCD screen and given by Voice.

**Positioning the Display** – The Display works best when fastened to the dash board. Its ball joint allows for adjustment to best viewing angle. When positioning the unit please take care to install it away from air bags and important functional controls.

**Positioning the Unit** – The GNAV20 is designed to work on a flat surface. We recommend that you place the unit on the floor of the vehicle, with the speaker facing up.

<u>**Turning on Power</u>** - Pull out the power cable from the cable compartment and plug it into the cigarette lighter receptacle. The LED on the power cable and on the front of the unit should both illuminate, indicating the unit is on.</u>



Figure 2. Position Unit between Front Seats





Figure 3. Position Unit on Floor

**Positioning the GPS Antenna** - Place the GPS antenna on a location which does not obscure the driver's vision. Typical place is either on the rear or lower part of the front windscreen. The Antenna can be secured in place by attaching the suction cup to the windscreen. Make sure that the antenna has a clear view of the sky and is not covered / obscured by the vehicles roof or other parts of the vehicle which will prevent reception and cause mis-operation.



Figure 4. Position Unit behind Front Seat



Fig. 5 Position GPS Antenna under Windshield

<u>Adjusting Brightness</u> – The brightness control is located on the right side of the display near the top of the unit. To increase the brightness level rotate the wheel up, to decrease the brightness rotate the wheel down.

Adjusting Contrast – The Contrast control is located in the SETTINGS menu. Choose SETTINGS in the MAIN MENU and scroll up to CONTRAST and press ENTER. To increase the contrast level rotate the scroll wheel up, to decrease the contrast rotate the scroll wheel down. A short cut is to push LEFT and RIGHT Arrows together and it will take you to the CONTRAST adjustment screen.



<u>Adjusting the Volume</u> – A thumbwheel volume control is located on the front of the unit. Turn the wheel to about the middle of its range to start, and adjust the volume from there. Volume can also be adjusted by using the Volume UP/DOWN buttons on the Remote. The volume control is located in the SETTINGS menu. After powering up the unit, choose SETTINGS and scroll to the VOLUME CONTROL and press ENTER. You can adjust the volume up or down in this screen.



*TIP* The system is equipped with Automatic Volume Control. This feature automatically increases the speaker volume whenever the vehicle is traveling at speeds greater than 50 MPH.

**Loading a Map Disc** - To load a map disc into the unit, simply open the CD-ROM tray by pressing the eject button which is located on the front of the unit. Place the disc in the tray, and push the tray shut.

# **IMPORTANT MAPPING INFORMATION – PLEASE READ**

While the majority of turn instructions the GNAV20 gives you are correct, there are instances where a city will post a "no U-turn" or "no right turn" sign after we release the map data. There are even cases where a two-way street is turned into a one-way street, or a ramp or street entrance is permanently closed.

While we strive to make the map data and turn instructions extremely accurate, we cannot guarantee that all turn instructions will be legal, or even possible. Please exercise good judgment and caution, and pay attention to all street signs and traffic regulations.

Do not follow the instructions of the GNAV20 if it suggests making an illegal turn or maneuver.

# **CHAPTER 4 – ENTERING A DESTINATION**

The GNAV20 goes through a test cycle when it is first powered up, or whenever power is cycled. During this time the Goodmans logo is displayed. Data can be entered to the GNAV20 by pushing the buttons on the display unit or the small Remote.

**The Main Menu** – The main menu screen is displayed when the system is ready. From this screen all system controls and functions can be accessed.

The Entries in the Main Menu

are:

- o Previous Destinations
- o Settings
- o Address
- o Address Book
- o Place
- Where Am I?





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#### ADDRESSES

To navigate to an address, use the SCROLL WHEEL to highlight the ADDRESS option and press the ENTER key to select.

**Entering City Name** – You need to first enter the City Name. The GNAV20 keeps the names of the most recent ten (10) cities visited in memory. You can use the SCROLL WHEEL to move up and down through the list to select the city or enter a new one.

To enter the name, use the SCROLL WHEEL or UP/DOWN Buttons on the Remote to scroll through the letters, when the desired letter is highlighted, push the ENTER key and the letter will appear on the bottom of the screen. If a letter is selected by mistake, use the LEFT/RIGHT Arrow to highlight the BACK symbol then push ENTER to move back one space. The GNAV20 has a spell-ahead feature, which eliminates letters as you enter the name. You can select the LIST box and see the list of available names, or once enough letters are entered to eliminate the list to ten or fewer names, the system will jump to a list screen automatically. Select the City Name and push ENTER.





**Enter the Street Name** – After entering the city name you will be prompted to enter the street name. You should not use prefixes such as North, South, East, West, or suffixes like Street, Court, or Avenue, as the GNAV20 will ask you for this information later.

Use the SCROLL WHEEL to select the letters like in City Name. Again, the spell-ahead feature will eliminate letters as you enter the street name. Once enough letters are entered, you will see a list of possible names to choose from or you can continue to enter more letters to minimize the list, select the Street Name and push



ENTER. If you entered the complete name, select DONE and it will take you to the next screen.

Enter the Address Option – After the Street Name, the GNAV20 will display the screen asking you to select one of three address options. Select NONE if you don't want to enter the House Number, the GNAV20 will take you to the nearest point of the street you have entered. Select HOUSE NUMBER and it will show a screen to enter the exact number. Select Cross Street and the GNAV20 will display another Street Name screen for you to enter the name of the cross street. You can also use this method to navigate to an intersection of two streets.



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**Enter the House Number** – Use the SCROLL WHEEL to move up and down through the list of numbers. When the desired number is highlighted, push the ENTER button and the number will appear on the bottom of the screen. Continue this process until you have entered the entire house number. When you are finished, use the RIGHT ARROW on the keypad and highlight DONE, then press the ENTER key. The GNAV20 will display a confirmation screen with the Street and City Names, Select YES and it will start calculating the route.



**<u>Route Guidance</u>** –After the Address Option has been selected and if chosen, house number or cross street name entered. The GNAV20 will display a confirmation screen showing the address, select YES and push ENTER to confirm the address and the GNAV20 will begin calculating the route and then begin the Turnby-Turn route guidance with both graphic screens and voice instructions.

## PLACES

**Entering a Place Name** - If you want to go to a specific place, such as a restaurant or hotel, and you don't know the address, you can enter the place name as a destination. The GNAV20 recognizes many places, including cities, airports, and tourist attractions (like Stonehenge), as well as many other categories.

Enter the name by selecting numbers and letters on the screen. Once enough letters are entered, the GNAV20 will go to the Select Category screen.

Select a Category – The GNAV20 shows a screen of possible categories for that name. Some names will show up in multiple categories like Hotel and Restaurant. Use the SCROLL WHEEL to select the correct category. The GNAV20 will display a list of possible places in that category. Select the one you want and push ENTER. The GNAV20 will display a confirmation screen showing the place name and city. Select NO if it is not the correct one and the GNAV20 will go back to the previous screen so you can select from the list again. If it is correct, select YES and the GNAV20 will start calculating the route and begin the Turn-by-Turn route guidance with both graphic screens and voice instructions.



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#### ADDRESS BOOK

<u>Address Book Locations</u> – If you have stored an address (or addresses) in your address book, you can route to one of these address. Select ADDRESS BOOK in the Main Menu, a SEL CUSTOM NAME screen will be displayed with all the Custom Names from the Address Book, use the SCROLL WHEEL to select the CUSTOM NAME that you want to go to. The GNAV20 will start calculating the route and begin the Turn-by-Turn route guidance with both graphic screens and voice instructions. If there is no entry in the Address Book, the GNAV20 will display a screen showing THE ADDRESS BOOK IS EMPTY and then back to the Main Menu. Address book entries can be added in the SETTINGS menu.

# **PREVIOUS DESTINATIONS**

**Previous Destinations** – GNAV20 remembers the last ten destinations in the memory so you can go back to one of these locations without re-enter the address. Select PREVIOUS DEST in the Main Menu, the GNAV20 will display a SELECT PREV DEST screen, use the SCROLL WHEEL to select the address that you want to go to. The GNAV20 will start calculating the route and begin the Turn-by-Turn route guidance with both graphic screens and voice instructions. If there is no entry in the Previous Destination list, the GNAV20 will display a screen showing NO PREVIOUS DEST and then back to the Main Menu.



# HOME ADDRESS

<u>Home Address</u> – The GNAV20 allows the user to store a pre-defined address in memory. By pushing the HOME Button on the Display unit or the Remote, the GNAV20 display a confirmation screen of the address, select YES and push ENTER to confirm and the GNAV20 will start calculating the route and begin the Turn-by-Turn route guidance with both graphic screens and voice instructions. If there is no entry in the HOME location, the GNAV20 will display a screen showing NO HOME ADDRESS ENTERED PREVIOUSLY and then ask DO YOU WANT TO STORE A HOME ADDRESS? Select YES to enter an address, NO to go back to MAIN MENU.

## **PREVIOUS LOCATION**

**<u>Previous Location</u>** – After you arrived at the destination and turned off the GNAV20, it stores the starting location in memory. When the power is turned on again, the GNAV20 will display a screen asking whether you want to go back to where you come from.

NOTE: This feature only works for a completed route. If power was turned off before the completion of a route and then turned on again, the GNAV20 will display a screen asking whether you want to continue the unfinished route.





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# **CHAPTER 5 - DRIVING DIRECTIONS**

**GPS Location** - After you have entered your destination the GNAV20 uses GPS to locate your vehicle. If the GNAV20 has been powered down for a few days it might take a minute or two for the GPS receiver to lock onto the satellite positions. During this period the GNAV20 will display "Acquiring GPS" on the screen. You can either wait for the GNAV20 to acquire GPS, or you can start driving and the GNAV20 will begin giving directions as soon as it has achieved GPS satellite lock.

If you are in a garage, or parked underneath an overhang or similar structure, the GNAV20 will not be able to achieve GPS lock. You must move your vehicle to a place where you have a clear view of the sky.

**Driving directions** - The GNAV20 uses the GPS to monitor the vehicles location throughout the trip. During a typical trip the GNAV20 will give verbal guidance and display the following information on the Route screen:



Voice Guidance - During a typical trip you will receive the following information and turn-by-turn instructions:

"Leg" Information – This tells you how far you will have to drive on the current road, and the direction of your next turn.

Example GNAV20: "Drive 4.3 miles and turn left"

"Prepare To" Warning – This information is given about 1 mile before the upcoming turn on the Motorway.

Example GNAV20: "Prepare to turn left in 1 mile"

"Turn" Instruction – You will hear a chime followed by the turn instruction. The chime sounds approximately 180 feet before the turn on city streets and 1/4 mile on Motorways. Example

GNAV20: (chime) "Turn left"

**Route Options Screen** – When the ENTER button is pushed during a route, the Route Option Screen appears. You can select one of the options on the screen or if no selection is chosen, the display will return to the Route Screen after 5 seconds. The selections are:

- 0 Continue the route - back to Route screen
- 0 Quit the route - back to Main Menu after confirmation
- Where Am I? show your current location 0
- Compass show Compass screen 0

**Compass Screen** – The Compass screen displays the direction of the car's heading, the speed of the car and the local time. Pushing the ENTER button will return to the Route screen.

Where Am I? Screen – The Where Am I? screen displays the car's current location and return to the Route screen after 5 seconds.





# **CHAPTER 6 – OFF ROUTE SITUATIONS**

**Automatic Rerouting** - The GNAV20 usually detects an off route occurrence within 500 feet of missing a turn, or taking a wrong turn. After you have gone off route the GNAV20 will automatically calculate a new route, and in most cases will get you back on the correct road immediately. If you go off route in a rural area, or on a dead-end street, the NAV20 will ask you to find a safe place and turn around, as it is either impossible or impractical to reroute the vehicle in the direction you are traveling.

# **CHAPTER 7 – CHANGING THE SETTINGS**

There are some settings that can be changed in the SETTINGS menu. Here are a short description of these items.

**Enable/Disable Daylight Saving** – Select ENABLE will add one hour to the time and select DISABLE will subtract one hour.

<u>Version</u> – Selecting this will display the version number of the software.

<u>Set Turn Beep Off</u> – The GNAV20 ships with the Turn Beeps enabled. The turn beep is the chime that sounds approximately 50 feet before the upcoming turn. If you choose to disable the turn beeps, the chime will no longer sound.



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<u>Add to Address Book</u> – Select this if you want to add entries to your address book. It will bring up the address entry screen. After the address has been entered, it will ask you for a CUSTOM NAME for this location; for example: OFFICE.

**Delete Address Book Entry**– Select this if you want to delete entries to your address book. It will bring up the SEL CUSTOM NAME screen. Select the Custom Name you want to delete and push ENTER.

**Enable Voice** – The GNAV20 uses Voice Recognition as a secondary input method. Most of the functions of GNAV20 can be executed using Voice Commands. Please refer to Chapter 7, Voice Mode for details. The Voice Mode can be activated by selecting Enable Voice in the SETTINGS menu. Once in Voice mode, the buttons (except ENTER) on the Display unit or the Remote will not function any more. To deactivate Voice Mode, you can either do it through the SETTINGS menu in Voice Mode or by pushing ENTER. If you push ENTER, the screen will display "Enable Remote?", select YES and Voice Mode will be deactivated.

<u>Volume Control</u> – the volume can be adjusted up or down in this screen.

<u>Edit Home Address</u> – Select this screen if you want to change the HOME Address in memory.



# CHAPTER 8 - VOICE MODE AND SPEECH RECOGNITION

The GNAV20 supports Voice Command as a secondary input method using Voice Recognition software and patented spell checking technology. The Voice Mode can be activated from the SETTINGS menu and deactivated either by Voice Command or the ENTER button.

**Positioning the Microphone** – The microphone is used to operate the Voice Control using Voice Recognition. The microphone has a clip that allows you to attach it at various places. Remove the microphone cable from the cable compartment and clip it to an object. A good place to position the microphone is on the power cord about 2 inches behind the power plug. If your vehicle has a high level of noise at highway speeds, then you should clip the microphone to the shoulder harness of your seatbelt, about eight inches below your chin, and swivel it so the holes point toward you.

**Speech Recognition** - The GNAV20's speech recognition software allows you to input your destination by voice. You will be asked to spell street names, place names, and even food names.

<u>Confirming "Beeps" and "Boops"</u> - The GNAV20 "beeps" after hearing each letter or number, and "boops" (a lower pitched beep), after hearing command words, such as the word "**stop**". If there is no confirming beep or boop, you must say the letter, number, or command word again.

<u>Menu Commands</u> – The following command words can be used when accessing menu items.

Command Word	What it Does
Previous	Allows you to move back though a list of choices, one at a time.
Yes / No	Used to answer when the GNAV20 asks a YES/NO question.
Stop	Used when you are finished entering information, or when you want to exit a menu.

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<u>**The Stop Command**</u> – The stop command can be used three different ways:

- When you are finished entering information. <u>Example</u> You: Navigator (beep) Route (boop) GNAV20: "Do you want to go to an address?" You: Yes (boop) GNAV20: "Say the City Name." You: L (beep) O (beep) N (beep) D (beep) O (beep) N (beep) stop (boop)
- 2. If you have entered a route and would like to stop the route before you reach your destination. <u>Example</u> You: Navigator (*beep*) Stop (*boop*) GNAV20: "Do you want to quit?" You: Yes (*boop*) GNAV20: "Good-bye."
- 3. To exit the system. You can say STOP anytime the GNAV20 asks you a question: <u>Example</u> You: Navigator (beep) Route (boop) GNAV20: "Do you want to go to an address?" You: Stop (boop) GNAV20: "Do you want to quit?" You: Yes (boop) GNAV20: "Good-bye."

<u>**Common Speech Recognition Problems**</u> – While the speech recognizer works for most people, you may encounter a problem once and a while. Here are some of the common problems you might have:

- <u>Holding the Microphone</u> The microphone design requires it to be clipped to an object. If you hold the microphone in your hand it will not pick up your voice.
- <u>Speaking too soon</u> The most common speech recognition problem is answering a question before the GNAV20 has stopped speaking. To avoid this problem, wait until the GNAV20 has finished speaking before answering.
- <u>Talk radio or other people talking in the car</u> If you are playing a talk radio station or if anyone in the car is talking, even if they are talking quietly, you will have difficulty with speech recognition. You must turn down the radio and ask others to remain quiet during speech input.
- <u>Fan is too loud or is blowing air across the microphone</u> This problem occurs very often in summer when the air conditioning is turned up high. Lower the fan speed and/or reposition the microphone.
- <u>Road noise is too loud</u> In some vehicles, especially convertibles and trucks, the interior noise increases dramatically at freeway speeds. If your vehicle is noisy at freeway speeds, you should enter your destination while parked, or while on a surface street. Positioning the microphone on your shoulder harness, about eight inches below your chin should also resolve this problem.
- <u>Shouting</u> Shouting puts stress into the voice, and actually degrades speech recognition performance. If the GNAV20 is not hearing you, try moving the microphone closer to your mouth and speak in a normal voice.

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# **CHAPTER 9 - ENTERING A DESTINATION BY VOICE**

<u>Selecting a Destination</u> - The GNAV20 will ask you if you want to go to an address, place or location in your address book (if programmed).

#### ADDRESSES

**Entering the City Name** – The GNAV20 will ask you for the city name, spell the city name one letter at a time. Remember to wait for confirming BEEP before saying the next letter. Say STOP after the last letter and the GNAV20 will ask you to confirm the name. Answer YES if it is correct or NO if it is incorrect.

Example (has previous entered City Name in memory)

You: Navigator (beep) Address GNAV20: "Do you want to go to" and LONDON will be displayed on the screen You: No [If you answer Yes, it will go to the Street Name screen] GNAV20: "Spell the city name." You: P-O-R-T-S-M-O-U-T-H-stop GNAV20: "Did you say" and PORTSMOUTH will be displayed on the screen. You: Yes

Example (no previous entered City Name in memory) You: Navigator (beep) Address GNAV20: "Spell the city name." You: P-O-R-T-S-M-O-U-T-H-stop GNAV20: "Did you say" and PORTSMOUTH will be displayed on the screen. You: Yes **Enter the Street Name** – After entering the city name, you will be asked to spell the street name. You should not use prefixes such as North, South, East, West, or suffixes like Street, Court, Avenue, as the GNAV20 will ask you for this information later.

Example GNAV20:"Spell the street name." You: M-I-T-C-H-E-L-L -stop GNAV20: "Did you say" and MITCHELL will be displayed on the screen You: Yes **EXCEPTION** 

A special case where you should enter a prefix, such as North, is when the address is on North Street. In this case you would simply spell "N-O-R-T-H-**stop**" for the street name.

Enter the House Number or Cross Street – The GNAV20 will ask you for the 3 address options.

Example (use House Number) GNAV20: "Do you want to say the building or house number?" You: Yes GNAV20: "Say the building or house number." You: 2-0 -stop GNAV20: "Did you say 20?" You: Yes Display: MITCHELL WAY IN PORTSMOUTH You: Yes GNAV20 starts routing

## TIPS

If there are suffix like East/West/ North/South, there will be more than one street name, saying **No** to the first one and the GNAV20 will display the next one.

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Example (No House Number) GNAV20:"Do you want to say the building or house number?" You: No GNAV20: "To an Intersection?" You: No Display: MITCHELL WAY IN PORTSMOUTH You: Yes GNAV20 starts routing

Example (Intersection) GNAV20:"Do you want to say the building or house number?" You: No GNAV20: "To an Intersection?" You: Yes GNAV20: "Spell the Cross Street Name" You: J-A-M-E-S –stop GNAV20: "Did you say" and JAMES will be displayed on the screen You: Yes GNAV20 starts routing

In some cities, the address may include a dash (-) separating the numbers, so you should say the word "**dash**" between the numbers. Here are some examples of special building numbers and how to enter them:

Building NumberWhat you should say18-151-8-dash-1-5-stop

# PLACES

**Entering a Place Name** - If you want to go to a specific place, and you don't know the address, you may spell the place name as a destination. Some common places are cities, airports, hotels, restaurants and tourist attractions (like Stonehenge), but other categories are available. If you want to go to *Taco Bell*, for example, you would enter the information as follow:

Example

You: Navigator (beep) Route GNAV20: "Do you want to go to an address?" You: No GNAV20: "To a place?" You: Yes GNAV20: "Spell some words in the place name." You: T-A-C-O-space-B-E-L-L-stop GNAV20: "There are two categories, restaurant?" You: Yes GNAV20: "Taco Bell?" You: Yes GNAV20: "Do you want the nearest about 1.2 miles away?" You: Yes GNAV20: "Do you want to go to Taco Bell on Pacific Coast Highway in Torrance?" You: Yes GNAV20 starts routing

#### TIP

You can use the word **blank** in place of **space**. You should do this if the GNAV20 "beeps" instead of "boops" after you say **space**. If you get a "beep" after saying space, this means the GNAV20 "heard" space as a letter, which will confuse the spell checker. If this is the case, then it is suggested that you alwavs use **blank** in place of **space**.

#### TIP

If you don't like the first choice the GNAV20 gives you, you can say "no" to hear the next choice. In fact, you can say "no" to as many choices as you like, and the GNAV20 will give you the next closest restaurant in the category. You can also say "previous" to go back and hear or select restaurants that have already been listed.

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#### ADDRESS BOOK

<u>Address Book Locations</u> – If you have stored an address (or addresses) in your address book, you can route to one of these address by spelling the custom name at the address book prompt. If you live at 120 West Olive Avenue, and you have stored this address as "H–O–M–E", you can easily route to your home in the following way:

Example You: Navigator (beep) Route GNAV20: "Do you want to go to an address?" You: No GNAV20: "To a place?" You: No GNAV20: "Do you want to go to a location in the address book?" You: Yes GNAV20: "Spell the custom name." You: H–O–M–E–stop GNAV20: "West Olive Avenue in Monrovia" will be displayed on the screen You: Yes GNAV20 starts routing

## **CHAPTER 10 - DRIVING DIRECTIONS AND VOICE COMMANDS**

The driving instruction under Voice Mode works the same as in non-voice mode; the guidance is given by both voice and graphic screens.

**<u>Requesting Information</u>** – After you have entered your destination you can query the GNAV20 for information anytime during your trip. Here is a list of command words, along with a brief explanation of their function:

Command	Explanation	
Navigator (beep) Turn	Distance to your next turn, and the direction of the turn.	
Navigator (beep) Distance	Remaining distance to your destination.	
Navigator (beep) Direction	Announces your direction of travel.	
Navigator (beep) Repeat	Repeats a driving instruction.	
Navigator (beep) Trip	A summary of the remaining roads you will take.	
Navigator (beep) Next	To hear the next leg of the route. You can manually "scroll"	
	through your route by repeating this command.	
Navigator (beep) Previous	To hear the previous leg of the route.	
Navigator (beep) Help	Gives a list of command words, and allows you to turn on the	
	training mode.	
Navigator (beep) Where am I	Announces your current location.	
Navigator (beep) Stop	To end the route and put the GNAV20 in the standby mode.	

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# **CHAPTER 11 – CHANGING THE SETTINGS BY VOICE**

<u>Settings Menu</u> - After you have put the GNAV20 in the standby mode by saying "stop" or "navigator (*beep*) stop", you may say "navigator (*beep*) settings" to change the default settings.

When you enter the settings menu the GNAV20 will start listing options, and you can respond by saying "**yes**", "**no**", or "**previous**" to move through the list of menu options. The "**previous**" command is helpful when you accidentally select a menu option and want to exit from that choice, as it moves you back through the menu one step at a time. To move forward through the menu options you should say "**no**" until you reach the desired menu item.

Here is a summary of all the options available in the settings menu:

<u>Address Book</u> – If you chose to add locations to the address book, the GNAV20 will ask you to enter the street number, street name, and a custom name. These addresses will reside in your address book for quick recall at any time.

You can also remove locations from the address book, either one at a time or all the addresses at the same time. When removing only one address, the GNAV20 will display the address on the screen for verification after you spell the custom name.

When removing all the listings from the address book, the GNAV20 will ask "*Are you sure you want to remove all the listings?*" If you answer "**yes**" the all the listing will be removed, and they will not be able to be recovered. If you answer "**no**", the GNAV20 will ask you to spell the custom name of the address book entry that you would like to remove. At this point you can either spell the custom name or say "**stop**" and the GNAV20 will allow you to quit and exit the settings menu.

<u>Normal Mode / Expert Mode</u> – When the normal mode ON, the GNAV20 will ask you if you want to go to an address, place, intersection, freeway, or to a location in the address book every time the GNAV20 is powered up. Please refer to Chapter 11 for Expert Mode instructions.

**<u>Route Preview</u>** – When the route preview is enabled the GNAV20 will calculate the route after you have entered your destination information, and will list the motorways on which you will travel. You will then have the option of accepting the route, avoiding one motorway, or avoiding multiple motorways.

When the route preview is enabled, the GNAV20 will also tell you the distance to your destination before giving the first turn instruction. This information is not given when the route preview is disabled, however you can always ask the GNAV20 for the distance to your destination at any time by saying, "**navigator** (*beep*) **distance**".

**Training Mode** – The GNAV20 ships with the training mode in the ON position. The training mode is designed to walk you through the process of entering address and place information. Once you are familiar with the system you will probably want to turn the training mode off, which will place the system in the normal mode. If you want to see how the normal mode functions before turning the training mode off, you can answer "**yes**" when the GNAV20 asks "*Are you familiar with this navigation system*?" at startup.

If the training mode is OFF, and you say only the word "**navigator**", the system will go back into the training mode until the power is cycled.

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<u>Confirmation Beeps</u> – These are the confirmation beeps and boops that occur during destination entry, and after giving commands. If you disable beeps, the GNAV20 will not give you any feedback, so you will not know if the GNAV20 has missed a command or a letter during destination entry. With the beeps turned off you will be able to enter information at a faster pace, but that could increase chance of error.

<u>**Turn Beeps**</u> – When the GNAV20 ships with the Turn Beeps enabled. The turn beep is the chime that sounds approximately 50 feet before the upcoming turn. If you choose to disable the turn beeps, the chime will no longer sound.

# **CHAPTER 12 – ADVANCED VOICE FUNCTIONS**

#### EXPERT MODE

**The Expert Mode** – The expert mode can be turned on and off in the settings menu (Chapter 10), and should only be used if you have read the manual and are familiar with the system. The expert mode allows you to bypass the startup menu and directly access your destination. The expert mode also gives limited feedback. When placed in the expert mode the GNAV20 will only sound a chime when powered up (unless you have an unfinished route in memory, in which case the GNAV20 will ask you if you would like to continue to that POI or address), and will wait for you to give it a command.

Here is a list of expert mode commands along with an explanation of how they are used.

Command	Explanation
Navigator (beep) Address	To enter a street address.
Navigator (beep) Place	To enter a specific place, like Taco Bell.
Navigator (beep) Address Book	If you have entered locations in your address book.
Navigator (beep) Intersection	To go to an intersection.
Navigator (beep) Route	To temporarily switch to the normal mode.

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# SHORTCUTS AND TIPS

**Spelling part of the place name** – If you are entering a place name that is extremely long, you only need to spell part of each word, as long as you say the word "space" between words. For example, you can enter "Redondo Beach Brewing Company" in the following way:

#### R-E-D-O-space-B-E-A-space-B-R-E-W-stop

You can also enter place names in any order, and even omit entire words. Of course your chance of finding the correct place increases with precise information, but this is useful if you can only remember a few words in the place name. Here is another way to enter "Redondo Beach Brewing Company":

# <u>Example</u>

B-R-E-W-I-N-G-space-B-E-A-C-H-stop

<u>Search from Closest to Farthest</u> – If you enter a place that occurs less than 5 times throughout the entire database, the GNAV20 will list the locations, starting with the one closest to your vehicle, and will continue to the next closest location every time you say "**no**".

If you enter a place that occurs many times throughout the database, the GNAV20 will ask you if you would like to spell the city name. If you do not choose to spell the city name, and the GNAV20 has a good GPS signal, it will list the locations starting with the one closest to you vehicle, and will go to the next closest location with every "**no**" response.

**Search Nearby Cities** – This GNAV20 has the unique ability to find a POI even if you enter the wrong city. For example, Macaroni Grill has restaurants in many cities, so after entering this POI the GNAV20 will ask you if you want to spell the city name. If you answer "**yes**", and spell a city where the Macaroni Grill is not located, the GNAV20 will pick the Macaroni Grill location closest to the city you entered.

# **CHAPTER 13 - TROUBLESHOOTING**

# No Sound from the Speaker

- If the GNAV20 is plugged into the cigarette lighter adaptor and the switch is in the ON position, and you are still not getting power, you should unscrew the tip of the power plug and check the fuse. If the fuse is blown, you should replace it with the same value fuse.
- If the fuse is not damaged, or if you have to replace the fuse repeatedly, please call our help line 0870 873 0080 for further assistance.
- Is the volume knob on the GNAV20 is turned to the halfway mark?
- Go to the Volume Control screen under the SETTINGS menu and adjust the volume to 5 or higher

# **Unit Beeps at Startup then is Silent**

- The expert mode has been activated. To turn the expert mode OFF:
  - 1. Say, "navigator (beep) Settings"
  - 2. Answer, "**No**" until the GNAV20 asks, "*Do you want to turn OFF the expert mode?*" then answer "**Yes**".

# No Response to Commands

- If the navigation unit is not responding to your commands try relocating the microphone closer to your mouth. Remember to clip the microphone to an object, like your seatbelt shoulder harness.
- Wind and fan noise, as well as talk radio stations can "confuse" the voice recognition software, so turn the radio off, roll up your windows, and turn your fan to a lower setting when entering information.
- If the GNAV20 still does not respond, please call our help line 0870 873 0080 for further assistance.

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# GPS is Not Available

- Is the antenna positioned on a metal surface, preferably the roof of your vehicle? Some vehicles have window film with metal properties that block the GPS signal. If you have placed the GPS antenna on the inside of the vehicle you will have to reposition it to the outside.
- If the GNAV20 has been turned off for a while it takes a few minutes to "find" the GPS signal. It can take up to 15 minutes in extreme cases.
- If the GNAV20 does not locate the GPS signal after 15 minutes, restart the system.
- If the GNAV20 still has not picked up the GPS signal, call our help line 0870 873 0080.

# The GNAV20 is Slow Responding to Commands

• Was the GNAV20 left in an environment that was too hot or too cold? This navigation system is designed to operate between +40 degrees and +112 degrees Fahrenheit. When starting the GNAV20 in very cold or very hot weather, you may have to use the vehicles heater or airconditioner to bring the temperature into the proper range.

# The GNAV20 Does Not Recognize an Address

• Sometimes a new street is constructed after the map database has been updated. Also, some rural areas and small towns are not detailed, and only major intersections are listed. Try navigating to a major intersection near the address.

# The GNAV20 Does Not Recognize an Place Name

• This typically happens with restaurants, as every year many restaurants either go out of business or change names. If the GNAV20 does not recognize the place name, try using the address instead.

# **CHAPTER 14 – SAFETY INFORMATION**

Safety Information:

- 1. The Customer is solely responsible for: (a) compliance with all applicable (i) traffic regulations, restrictions and road conditions and (ii) FCC regulations (including, without limitation Part 15 regulations), (b) evaluating the road conditions, hazards and suitability of any route for travel, (c) operating the vehicle in a safe manner, (d) eliminating distractions and maintaining safe driving practices and (e) placing, securing and/or mounting the Product (i) to avoid interference with vehicle controls and safety devices, (ii) eliminate obstructions to the driver's surveillance of road conditions and (iii) prevent personal injury and property damage in the event of an accident. Do not place, secure and/or mount the Product on or near any vehicle airbag to avoid serious injury to the driver or passenger in the event of airbag deployment.
- 2. FAMILIARIZE YOURSELF WITH THE USER MANUAL, INSTALLATION, OPERATION AND CONTROLS OF THE PRODUCT BEFORE YOU START TO DRIVE THE VEHICLE. DO NOT OPERATE THE CONTROLS OF THE PRODUCT WHILE YOU ARE DRIVING. PAY FULL ATTENTION TO THE OPERATION OF THE VEHICLE AND ROAD CONDITIONS WHILE THE VEHICLE IS IN MOTION TO AVOID ACCIDENT, COLLISION, PERSONAL INJURY OR PROPERTY DAMAGE.
- 3. Goodmans does not warrant or represent that the use of the Product will be uninterrupted or error-free, or that the Product will satisfy all of the Customer's needs or requirements or that errors in programming related to the Product's software (including, without limitation, the map data) will be corrected.

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- 4. Goodmans does not warrant or represent that any indicated route for travel complies with existing traffic or other applicable restrictions or is suitable for travel by the Customer. The map information provided to you by the Product is subject to change and may be inaccurate or incomplete. In no event is the map information and the information provided to you by the Product intended to supercede compliance with applicable traffic regulations, restrictions and road conditions.
- 5. The Product's performance is limited by, among other things, the accuracy and detail of the most recent map data at the time of publication of the map, the noise level and other conditions under which the Products are operated, and the Customer's correct use of the Products.

# **CHAPTER 15 – MAP UPDATE INFORMATION**

# Map Update:

The Electronic Map is updated periodically but no less than once every twelve months. Updated maps can be purchased from Pronounced Technologies (Map Supplier). Ordering information can be found at the web site <u>www.pronounced.com</u> or by calling +1-626-599-2205.

Maps for other European Countries:

Maps for other European Countries can also be purchased from the Pronounced Technologies web sit, <u>www.pronounced.com</u>, or by calling +1-626-599-2205. Please check the web site for available maps.

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