

**GARMIN**  
**GNS™ 400/500 Series**  
**GNC® 420**  
**GPS 400 Navigators**  
**Data Card Guide**



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This manual reflects the operation of the current software version of the GNS™ 400/500, GNC® 420, and GPS 400 Navigators. Some differences in operation may be observed when comparing the information in this manual to earlier or later versions.

Garmin International, Inc., 1200 East 151st Street, Olathe, Kansas 66062, U.S.A.

Garmin AT, Inc., 2345 Turner Road SE, Salem, OR 97302, U.S.A.


Garmin (Europe) Ltd., Liberty House, Hounsdown Business Park, Southampton, Hampshire SO40 9LR U.K.


Garmin Corporation, No. 68, Zhangshu 2nd Road, Xizhi District, New Taipei City, Taiwan


Web Site Address: [flygarmin.com](http://flygarmin.com)


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 **WARNING:** Navigation and terrain separation must NOT be predicated upon the use of the TAWS function. The TAWS feature is NOT intended to be used as a primary reference for terrain avoidance and does not relieve the pilot from the responsibility of being aware of surroundings during flight. The TAWS feature is only to be used as an aid for terrain avoidance and is not certified for use in applications requiring a certified terrain awareness system. Terrain data is obtained from third party sources. Garmin is not able to independently verify the accuracy of the terrain data.


 **WARNING:** The terrain data should be used only as an aid for situational awareness. Terrain data must not be used as the sole basis for decisions or maneuvers to avoid terrain or obstacles. Terrain data must not be used for navigation.


 **WARNING:** The altitude calculated by GNS™ GPS receivers is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters in aircraft. GPS altitude should never be used for vertical navigation. Always use pressure altitude displayed by pressure altimeters in the aircraft.


 **WARNING:** The Jeppesen database used in the GNS™ Series system must be updated regularly in order to ensure that its information remains current. Updates are released every 28 days. A database information packet is included in the GNS™ package. Pilots using an outdated database do so entirely at their own risk.


 **WARNING:** The basemap (land and water data) must not be used for navigation, but rather only for non- navigational situational awareness. Any basemap indication should be compared with other navigation sources.


 **WARNING:** For safety reasons, GNS™ 400/500 Series operational procedures must be learned on the ground.

 **WARNING:** The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment. Portions of the Garmin GNS™ 530 utilize GPS as a precision electronic Navigation aid (NAVAID). Therefore, as with all NAVAIDs, information presented by the GNS™ 530 can be misused or misinterpreted and, therefore, become unsafe.

 **WARNING:** Use the GNS™ 400/500 Series, Weather Data Link Interface, TIS, and TAWS at your own risk. To reduce the risk of unsafe operation, carefully review and understand all aspects of the GNS™ Series Pilot's Guide documentation and the GNS™ Series Flight Manual Supplement. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the GNS™ series to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety purposes, always resolve any discrepancies before continuing navigation.

 **CAUTION:** The Garmin GNS™ 400/500 series of avionics do 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.

 **NOTE:** All visual depictions contained within this document, including screen images of the GNS™ 400/500 panel and displays, are subject to change and may not reflect the most current GNS™ 400/500 system. Depictions of equipment may differ slightly from the actual equipment.

 **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.











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**NOTE:** Unless otherwise specified within this manual, the term 'GNS™ 400/500 series applies to the GNS™ 530, GNS™ 530A, GNS™ 530(A) w/TAWS models, GNS™ 430, and GNS™ 430A avionics. Please note that the difference between the GNS™ 430/430A and the GNS™ 530 and GNS™ 530A models is indicated under 'VHF COM Performance' in the Specifications section of their respective Pilot's Guide and Reference Manual.

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Part Number	Rev	Date	Description
190-03050-00	A	November, 2023	Production Release.

This document uses interactive links to improve the user experience. Throughout the document, there will be icons and buttons the user can select to navigate to the associated material and information.

	Video Link	Click to view video.
	Table of Contents	Click to view Table of Contents.
	More Info	Click to view additional information.
	Directional Guide for WAAS	Directional guide for WAAS equipped devices.
	Directional Guide for Non-WAAS	Directional guide for devices without WAAS functionality.
	Next Step	Click to view next step in process/procedure.
	Previous Step	Click to view previous step in process/procedure..

### Interactive Icons & Directional Guides

## SELECT YOUR DEVICE

## DETERMINING THE VARIANT OF YOUR GNS™, GNC®, OR GPS NAVIGATOR



**NOTE:** When the device is powering ON, variant information will be displayed on the various splash screens, e.g. Terrain is available.

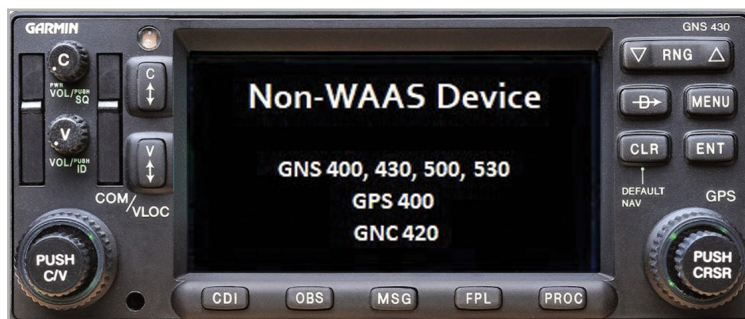
When powering the device ON, the variant is displayed, e.g. GNS™ 530WT TAWS, GNS™ 430.

How to Determine Your Variant



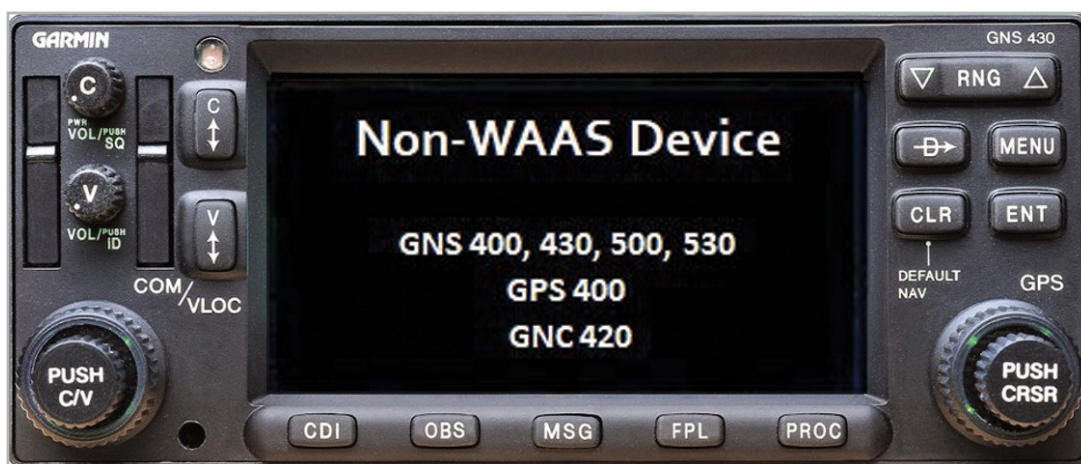
WAAS Devices

Click on the device that has  
your variant of navigator.



Non-WAAS Devices





Data Card Required for Your Device  
Where to Purchase Data Cards  
Where to Purchase Databases

How to Install Data Cards

Equipment Required to Load Databases

Loading USB Card Programmer Software

Loading Garmin Databases Onto Card(s)

Troubleshooting Database Loading

Troubleshooting Data Card

GNC Shows "N/A" for Obstacles

Device USB Data Port Check

Click the Box to Select Topic



Data Card Required for Your Device  
Where to Purchase Data Cards  
Where to Purchase Databases

HTAWS Helicopter  
Data Card Required for Your Device  
Where to Purchase Data Cards  
Where to Purchase Databases

How to Install Data Cards

Equipment Required to Load Databases

Loading USB Card Programmer Software

Loading Garmin Databases Onto Card(s)

Troubleshooting Database Loading

Terrain and Obstacle Cards Corrupted

Troubleshooting Data Card

Device USB Data Port Check

Click the Box to Select Topic

## DATA CARD REQUIRED FOR NON-WAAS DEVICE



**NOTE:** There are two data card slots on the face of the GNS™ 400/500 Series. The Navigation Data card should be inserted in the left-most slot. The right-hand slot is provided for the terrain/obstacle or TAWS/terrain data card, if applicable.

A single navigation card is required for non-WAAS variants of the GNS™, GNC®, and GPS 400/500 series navigators for fixed wing aircraft and helicopters. The data card will have a green label and the letters "IFREP" in large print on the label.



Garmin GNS 430/530 Non-WAAS Data Base Card

The data card will be loaded into the left card slot of the device.

The navigation database is updated every 28 days and is required for IFR flight.

The basemap is internal to all non-WAAS navigators.

### Where to Purchase the Data Card:

Data card can be purchased from Jeppesen.

### Where to Purchase Garmin Database:

- 1) Go to [flygarmin.com](http://flygarmin.com).
- 2) From the Home Page, select **Devices** > **Buy Databases**.

### Where to Purchase Jeppesen NavData Database:

Go to the [Jeppesen Distribution Manager](#).



## YOUR WAAS DEVICE REQUIRES A NAVIGATION CARD AND AN OPTIONAL TERRAIN CARD



**NOTE:** If using the orange navigation card, your navigator's software version must be 3.30 or higher.

The WAAS-enabled versions of the GNS™ 430, GNS™ 530, GNC® 420, and GPS 400/500 navigators for fixed wing and helicopters, require the orange data card. It will have IFRW printed in large letters on the label. The navigation database is updated every 28 days and is required for IFR flights. Some of the older versions of the navigators may have a silver navigation card.



Garmin GNS 430/530 WAAS Data Base Card

### Where to purchase a data card:

[Garmin website.](#)

Or:

[Local Garmin dealer.](#)

Or:

[Jeppesen website.](#)

### Where to purchase database:

1) Go to [flygarmin.com](http://flygarmin.com).

2) From the Home Page, select **Devices** > **Buy Databases**.

Or:

Go to the [Jeppesen Distribution Manager](#).

The optional TAWS/Terrain data card, part number 010-10201-21 or -20, is used in the WAAS enabled navigators for fixed-wing aircraft and helicopters without HTAWS. The basemap is internal to all WAAS navigators. The basemap resides on the TAWS/Terrain card for any GNS™ 430/530 with the Mod 7 upgrade.



Garmin TAWS/Terrain Data Card

### Where to purchase a data card:

1) [Local Garmin Dealer](#)

### Where to purchase databases:

1) Go to [flygarmin.com](http://flygarmin.com).

2) From the Home Page, select **Devices** > **Buy Databases**.



WAAS

## YOUR WAAS HTAWS DEVICE FOR HELICOPTERS REQUIRES A NAVIGATION CARD AND AN OPTIONAL TERRAIN/OBSTACLE CARD



**NOTE:** If using the orange navigation card, your navigator's software version must be 3.30 or higher.

The WAAS-enabled version of the GNS™ 430 HTAWB TAWS upgrade, GNS™ 530 HTAWS, GPS 400/500 HTAWS, or the GNC® 420W HTAWS navigators require the orange data card. The card will have IFRW printed in large letters on the label.



Garmin GNS 430/530 WAAS Navigation Card

### Where to purchase a data card:

[Garmin website.](#)

Or:

[Local Garmin dealer.](#)

Or:

[Jeppesen website.](#)

### Where to purchase database:

- 1) Go to [flygarmin.com](#).
- 2) From the Home Page, select **Devices** > **Buy Databases**.

Or:

[Jeppesen website.](#)

The Terrain/Obstacle cards 010-00874-1 or -6 are used in helicopters for HTAWS operations requiring a higher terrain resolution. The basemap is internal to all WAAS navigators. The basemap resides on the TAWS/Terrain card for any GNS™ 430/530 with the Mod 7 upgrade.



Garmin GNS 430/530 WAAS Terrain/Obstacle Card

### Where to purchase a data card:

- 1) [Local Garmin Dealer](#)

### Where to purchase databases:

- 1) Go to [flygarmin.com](#).
- 2) From the Home Page, select **Devices** > **Buy Databases**.



WAAS

## HOW TO INSTALL DATA CARDS INTO GNS™, GNC®, OR GPS NAVIGATORS

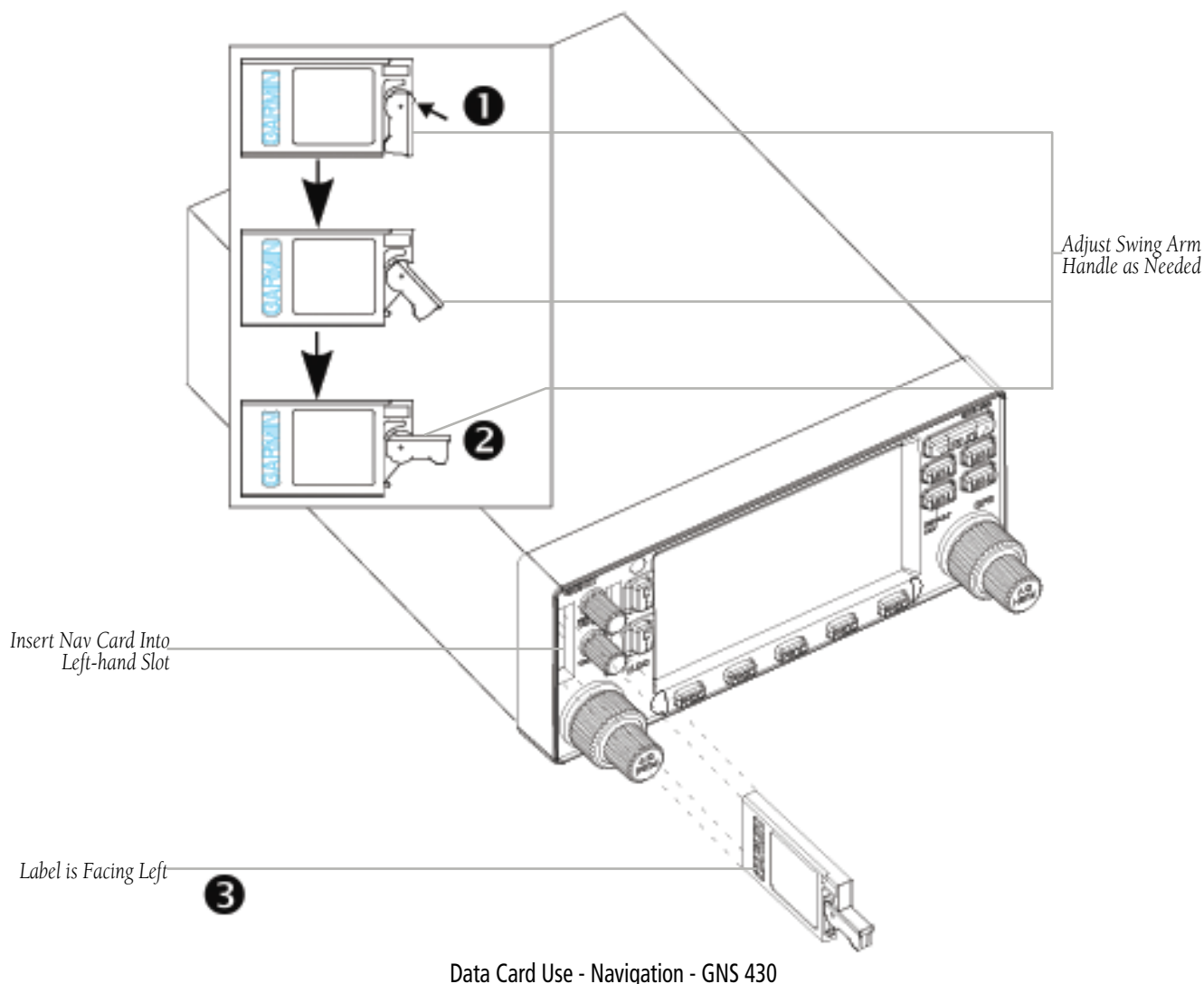
The Navigation data card and the Terrain Data card can be installed or removed when the GNS™ avionics are off. If the navigation card is not present when the unit is turned on, an “Aviation Database Not Available” in yellow type message appears on the Database Confirmation Page. If the navigation card is removed during operation, a “Data card removed - Unit will restart in 30 seconds” warning is displayed. A counter begins to count down and, if the card is not replaced within 30 seconds, the GNS™ will automatically re-initialize. Pressing the ENT Key will manually re-initialize the unit.

How to Load a Card Into a Device



### Inserting the Navigation Card into the GNS™ 430:

- 1) Insert the Navigation card into the left-most card slot, with the label facing to the left and the swing arm handle at the bottom front.
- 2) Press the navigation card into place until it seats on the internal connector and the front of the card is flush with the face of the GNS™ 430 unit.
- 3) If the swing arm handle is up, gently lower the handle and push it into place—flush with the face of the GNS™ 430 unit.



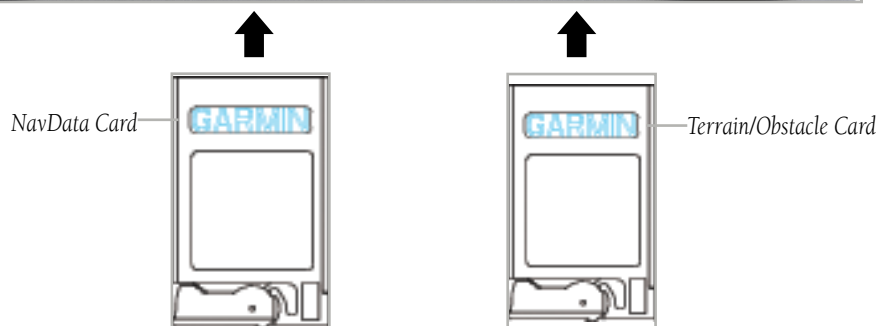
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## How to Load a Card Into a Device



Data Card Use - GNS 530 - NavData and Terrain/Obstacle Cards

### Removing Navigation or Terrain Data Card:

- 1) Gently press on the tab—using a slight rightward motion—at the front center of the data card. This partially deploys the swing arm handle.
- 2) Press here to deploy handle and rotate the swing arm handle outward until it locks into place, perpendicular to the face of the GNS™ 530 unit.
- 3) Grasp the top and bottom surfaces of the swing arm handle between your thumb and forefinger and pull directly away from the face of the GNS™ 530 unit to remove the data card.

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## EQUIPMENT REQUIRED TO LOAD DATABASES ONTO DATA CARD



**NOTE:** You must purchase the Jeppesen SKYBOUND G adapter to load data from Jeppesen.

The Garmin USB Aviation Data Programmer works with all the data cards, green, silver, orange, and white labels. The programmer enhances data transfer speeds and meets RoHS compliance, which allows global availability.

The Garmin Aviation USB Data Card Programmer can be purchased from [garmin.com](http://garmin.com).

The Jeppesen SKYBOUND G2 adapter can be purchased from [jeppesen.com](http://jeppesen.com).

Databases can be downloaded to both Mac or Windows computers.



Garmin USB Aviation Data Card Programmer



Jeppesen - Skybound G2 USB Adapter

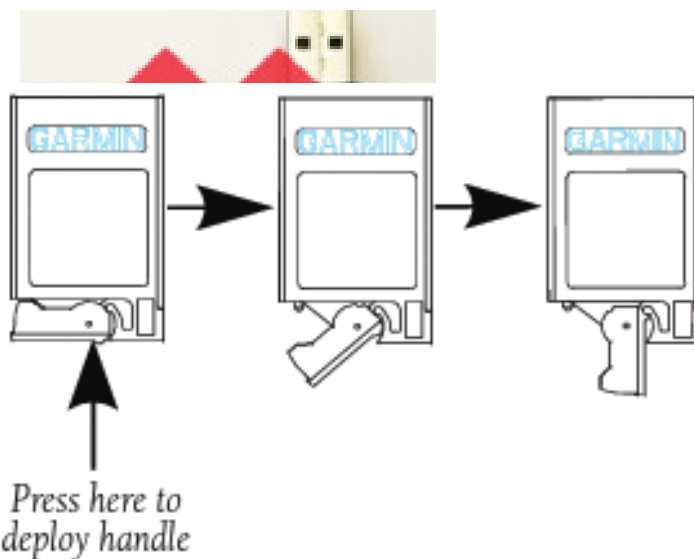
The Silver labeled NavData Card can be loaded with any SKYBOUND adapter.

The Orange-labeled navigation data cards are only compatible with Jeppesen's SKYBOUND G1 programmer or the Orange-labeled G2 SKYBOUND programmer,

The Green-labeled navigation card can be loaded by the black labeled SKYBOUND G2 adapter or the Orange-labeled G2 adapter.



Flygarmin - Skyboun



Data Card Use - Swing Arm Handle Operation

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# LOADING GARMIN USB AVIATION DATA PROGRAMMER SOFTWARE

How to Update Programmer Software



**NOTE:** Software version 2.3.1.2 or later is required for the Garmin USB Aviation Data Programmer.

## Confirming Garmin USB Aviation Data Programmer Software Version:

- 1) From your computer, Open **Settings > Apps & Features**.
- 2) Scroll down, then select **Programs and Features**. A list will be displayed. Look for 'Garmin USB Drivers' and check the date and version.

## Updating Garmin USB Aviation Data Programmer Software:

- 1) Disconnect the USB Programmer from the computer.
- 2) Follow the Garmin Aviation Support link [HERE](#).
- 3) Click **Download** for the latest software version.
- 4) Reconnect the USB Programmer. Verify the light on the USB Programmer illuminates.



**NOTE:** If the light on the Garmin USB Aviation Data Programmer does not illuminate, or there are other issues or errors, the next step is to replace the USB Programmer via [garmin.com](#).



**NOTE:** If 430W/530W Terrain and Obstacle data cards have been corrupted when trying to update, please click the button below to try an alternate USB Aviation Card Programmer update.

Click Here for the Alternate  
USB Programmer Update



## HOW TO LOAD GARMIN DATABASES ONTO DATA CARDS

How to Load Garmin Databases



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### How to Load Garmin Databases Onto Data Cards:

- 1) From the [flygarmin.com](https://flygarmin.com) homepage, select **Sign In**. Enter the appropriate account information.
- 2) Select the **Devices** Tab, towards the upper Right corner.

The screenshot shows the flygarmin.com homepage. At the top, there is a dark blue navigation bar with 'HOME' and 'DEVICES' tabs. An arrow labeled 'Select to Sign In' points to the 'HOME' tab, and an arrow labeled 'Select to View' points to the 'DEVICES' tab. Below the navigation bar is a light blue banner for 'Garmin Aviation Database Manager' with a 'Download Now' button. To the right, there is a 'Garmin Account Sign In' section with a 'SIGN IN' button. Below that is a 'Database Info' section with links to 'Aviation Database Alerts', 'Aviation Data Error Report', 'System Status', 'Database Update Schedule', 'Database and Bundle Pricing', 'Database Exclusions List', and 'Type 2 LOA Status'. At the bottom, there is a 'Stay Informed' section with a newsletter subscription form and a 'SIGN ME UP' button. On the left side of the page, there are two video thumbnails: 'Garmin Aviation Database Manager Quick Start Guide' and 'Installing the Garmin Aviation Database Manager And Purchasing Databases'.

Flygarmin - Home - Sign In

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Next

- 3) Select the appropriate device from the list.  
Or:
- 4) Select **Install Updates**.  
Or:
- 5) Select the arrow to view additional information.

The screenshot displays the 'Aircraft Details' page for aircraft N123AB. The page includes a header with navigation links (Overview, Devices, Buy Databases, Update Schedule, Warranty, Connected-Cockpit Services, Transfer Aircraft) and a sub-header with 'HOME' and 'DEALER' links. The main content area shows the aircraft's silhouette and details: N123AB (C-182), YEAR / MAKE / MODEL: 2020 CESSNA 182 P, SERIAL NUMBER: 123456. Below this are links for 'Edit Aircraft' and 'Warranty Registration'. Two buttons, 'BUY DATABASES' and 'ADD DEVICE', are visible. The 'Devices' section lists two devices: G1000 NXi (Garmin G1000 NXi) and GNS 530W (Garmin GNS 530W). The G1000 NXi device has a red status indicator showing '7 Updates Required' and '7 expired 2 years ago'. The GNS 530W device has a green status indicator showing 'Database(s) Updated On 21-Apr-2023 9:51:21 am' and 'Next update available in 14 days'. A blue 'INSTALL UPDATES' button is present next to the GNS 530W device. Three callouts with arrows point to specific elements: 'Select Device' points to the GNS 530W device, 'Select to Install Updates' points to the 'INSTALL UPDATES' button, and 'Select to View Info' points to the right arrow next to the GNS 530W device's update status.

Select Device

Flygarmin - Devices - Devices and Aircraft

Select to Install Updates

Select to View Info

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Next

6) From the Device Details page, select **Install Updates**.

[Overview](#)
[Devices](#)
[Buy Databases](#)
[Update Schedule](#)
[Warranty](#)
[Connected-Cockpit Services](#)
[Transfer Aircraft](#)

### Device Details

[Aircraft](#) > [N123AB](#) > GNS 530W



#### GNS 530W

MODEL: GARMIN GNS 530W  
SERIAL NUMBER: 182123456

[Edit](#) | [Delete](#)

[Redeem a Coupon](#)


[Warranty Registration](#)

[Additional software for your GNS 530W](#)


Note: The Skybound II hardware used for the Jeppesen updates is not compatible with the Garmin Navigation Database, Obstacle and Terrain databases. In order to install these databases, you will need to use the Garmin USB Aviation Data Card Programmer, [available here](#).

### Databases

[BUY DATABASES](#)
[INSTALL UPDATES](#)



Navigation Data [United States](#) — Cycle 2304



Database(s) Updated On  
20-Apr-2023 8:30:54 am  
11 updates remaining  
coverage until March 21, 2024

Select to Install Updates

Flygarmin - Devices - Device Details - GNS 530W

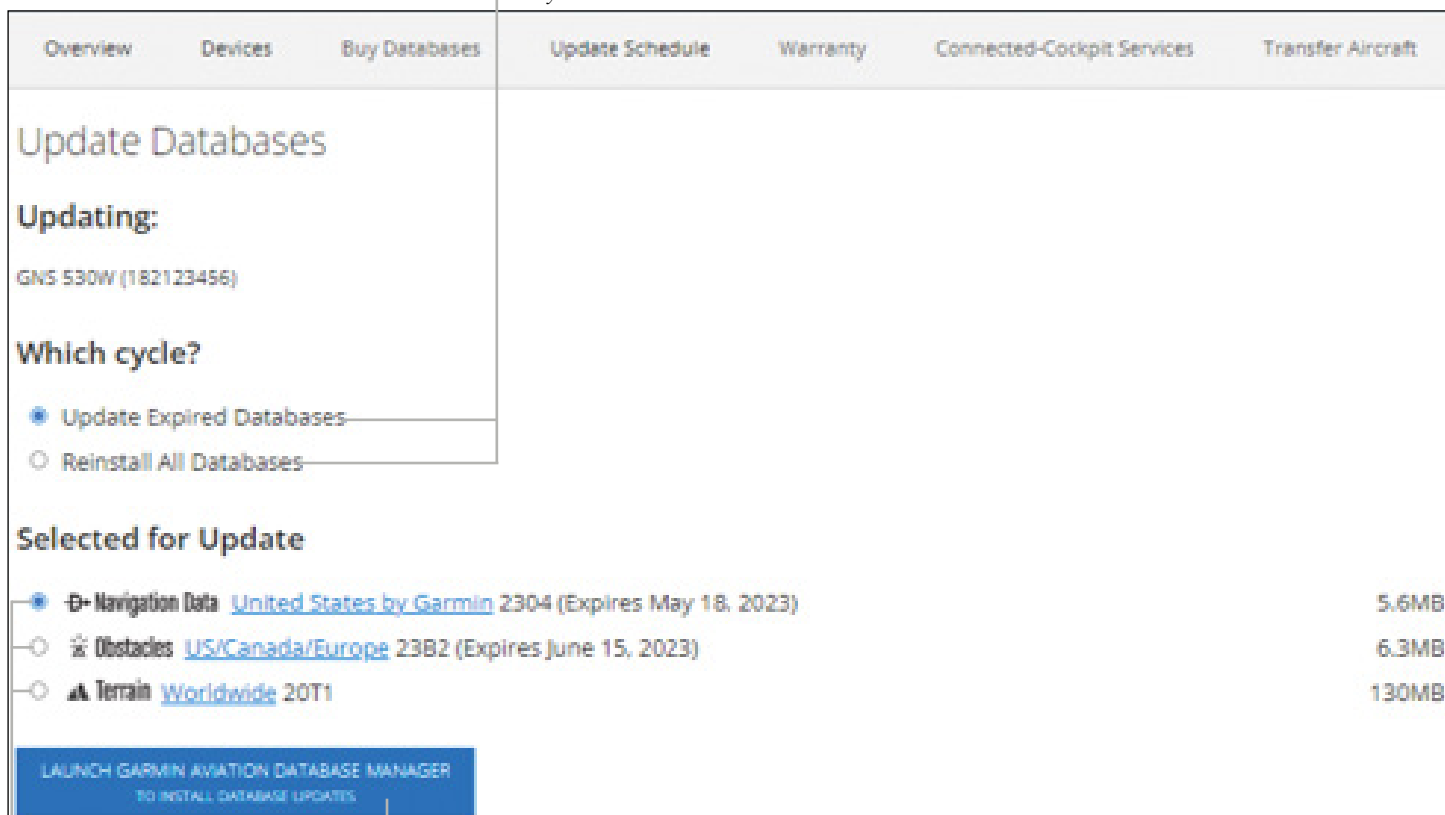
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- 7) Select the desired Cycle, e.g. Update Expired Databases.
- 8) Select the desired Database., e.g. Navigation Data.
- 9) Select **Launch Garmin Aviation Database Manager**.

Select Desired Cycle



The screenshot shows the 'Update Databases' screen in the Garmin interface. At the top, there is a navigation bar with tabs: Overview, Devices, Buy Databases, Update Schedule, Warranty, Connected-Cockpit Services, and Transfer Aircraft. The 'Update Schedule' tab is selected. Below the navigation bar, the title 'Update Databases' is displayed. Under 'Updating:', the text 'GNS 530W (182123456)' is shown. The section 'Which cycle?' contains two radio button options: 'Update Expired Databases' (which is selected) and 'Reinstall All Databases'. Below this, the 'Selected for Update' section lists three items: 'Navigation Data United States by Garmin 2304 (Expires May 18, 2023)' with a size of 5.6MB, 'Obstacles US/Canada/Europe 23B2 (Expires June 15, 2023)' with a size of 6.3MB, and 'Terrain Worldwide 20T1' with a size of 130MB. At the bottom, there is a blue button labeled 'LAUNCH GARMIN AVIATION DATABASE MANAGER TO INSTALL DATABASE UPDATES'.

Select Desired Database

Select to Launch

Flygarmin - Update Databases - Select Cycle & Database - Launch Database Manager

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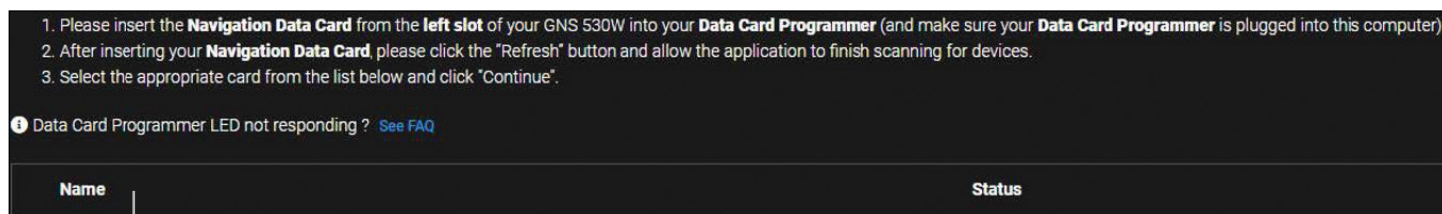
Next

- 10) Accept and advance through the license agreement.
- 11) Follow the menu of instructions displayed in the upper Left corner of the screen.



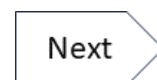
Garmin Aviation Database Manager - Main - Upper Left Corner Menu

- 12) Check to see if the Aviation Data Card Programmer appears under 'Name'.
- 13) If not, check the Data Card Programmer message in the information section.



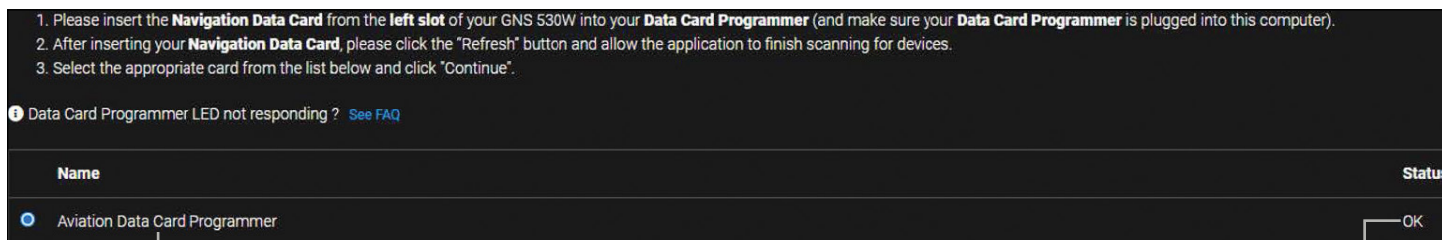
Garmin Aviation Database Manager - Main - Message Center

Click on the Image to View  
More Info on the Garmin  
Aviation Database Manager





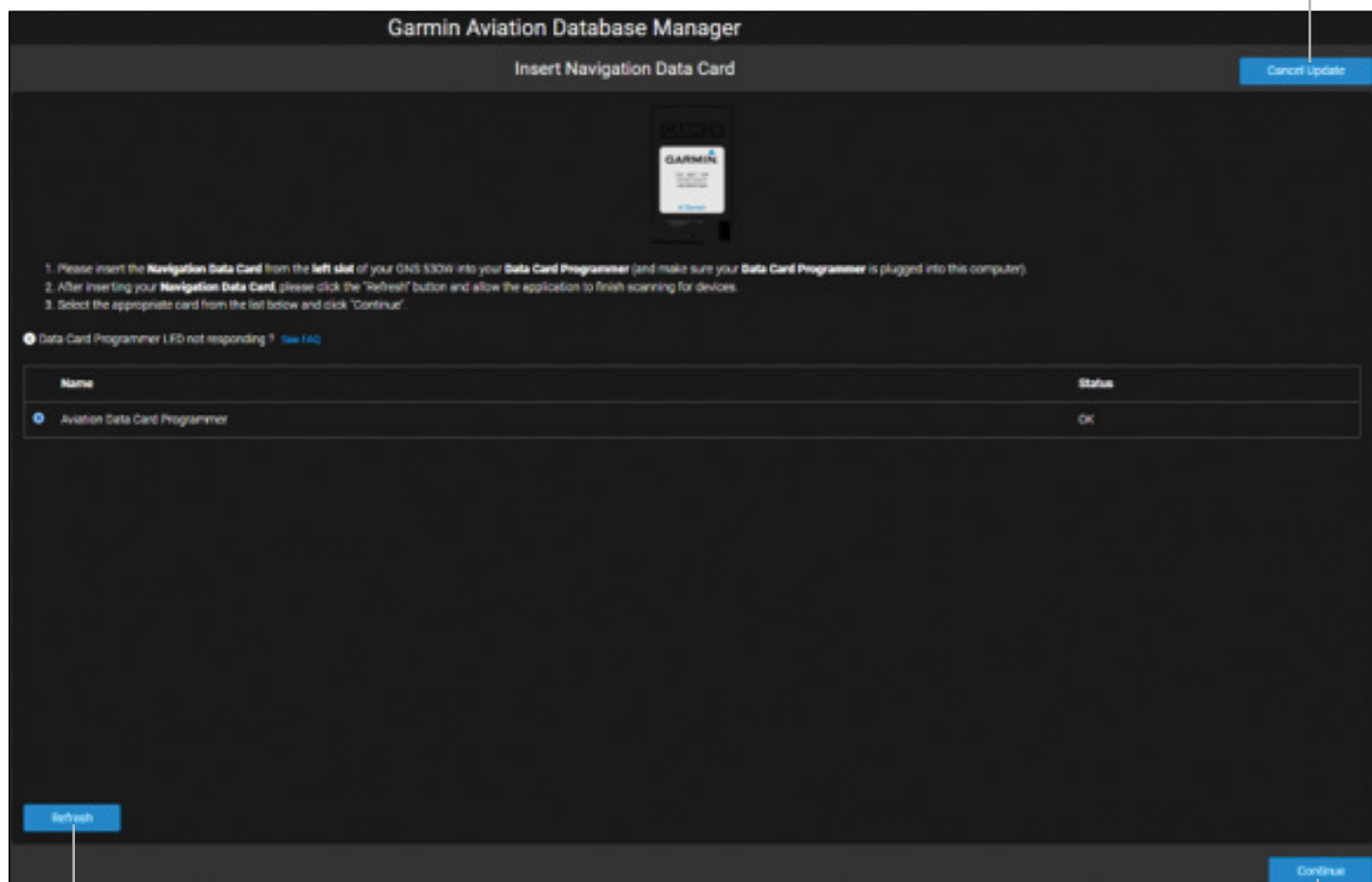
- 14) Once the programmer is plugged into the computer, 'Aviation Data Card Programmer' will appear as the Name, with the Status as 'Ok'.
- 15) Follow the menu of instructions displayed in the upper Left corner of the screen.
- 16) Select **Continue** to start loading databases.



Verify Card Programmer is Listed

Garmin Aviation Database Manager - Main - Message Center - Programmer Listed

Verify Card Programmer Status



Select to Refresh







Garmin Aviation Database Manager - Main - Navigation

Select to Continue





## TROUBLESHOOTING DATABASE LOADING

Issue		Action
	Weak or intermittent internet connections when loading data onto card.	Check internet service.
	Did you disconnect the programmer or data card from the computer while updating?	Keep the programmer and card connected throughout the loading process.
	Did you use the wrong USB adapter?	The Jeppesen adapter will not load Garmin databases. A Garmin programmer will not load Jeppesen databases.
	Is the programmer software out of date?	Update the programmer software (Version 2.3.1.2 or later).
	Bad or corrupt data card.	Check card integrity. 

### Troubleshooting Database Loading

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NON  
WAAS

WAAS

## ALTERNATE USB PROGRAMMER SOFTWARE: WHEN 430W/530W TERRAIN AND OBSTACLE DATA CARDS HAVE BEEN CORRUPTED WHEN TRYING TO UPDATE

Garmin released an updated device driver for the USB Aviation Card Programmer. To get this driver, customers should be using Windows 7 or later. The driver is hosted on the Microsoft Windows Update site. The most reliable fix is to install the new driver.



**NOTE:** Corrupted cards cannot be fixed in the field. The card must be replaced by Garmin.

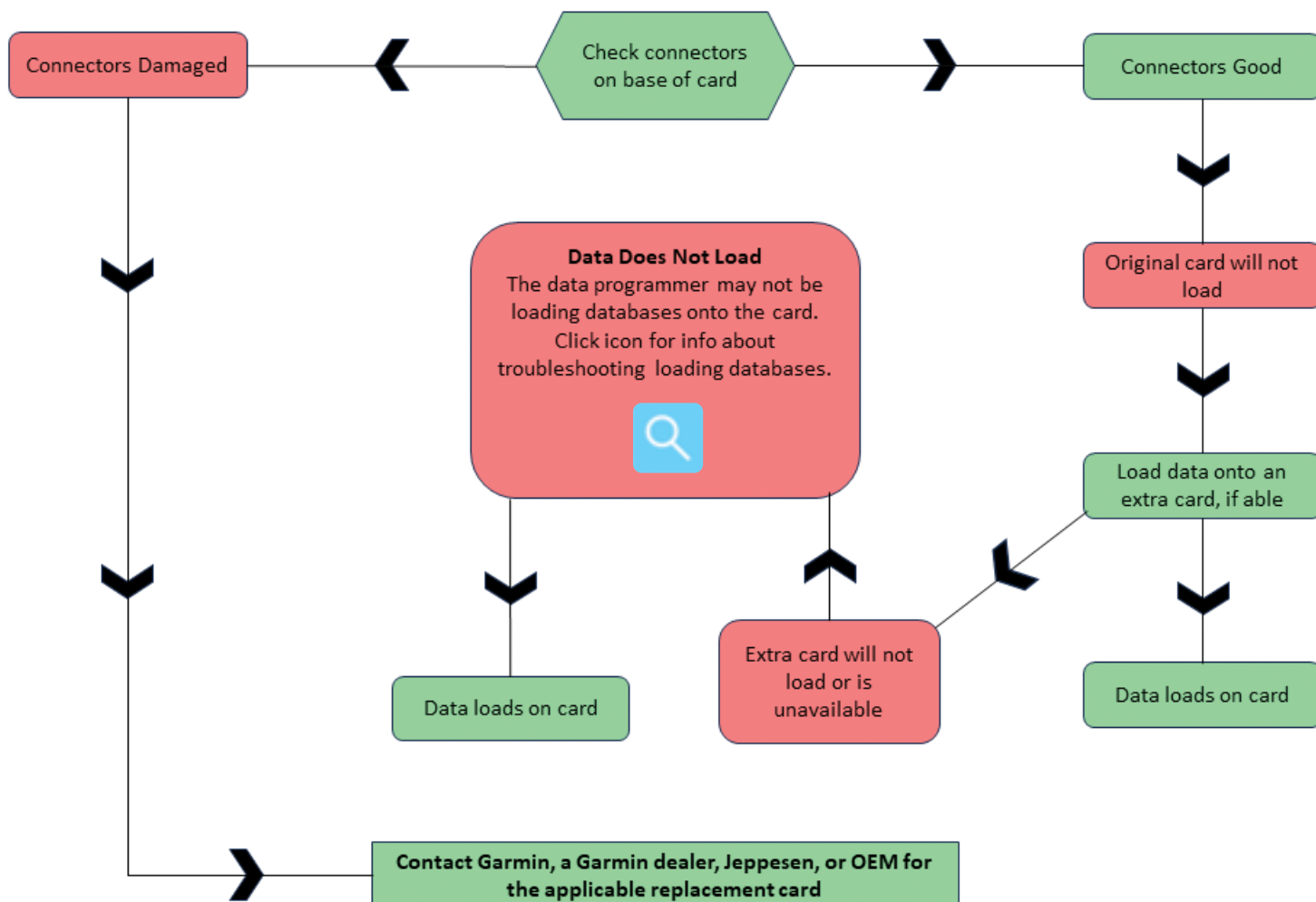
### Installing Updated USB Aviation Card Programmer Driver:

- 1) Disconnect the USB card programmer device from the PC.
- 2) Check for an entry for older versions of the driver in the "Programs and Features" section of the Control Panel.
- 3) Look for Windows Driver Package-Garmin (grmn0300). If the package exists, delete it.
- 4) Reconnect the Card Programmer device and allow Windows to search for the Card Programmer device.
- 5) If Windows does not find the Card Programmer, Open Device Manager and search for Garmin Devices.
- 6) Double Click on **Garmin Devices**.
- 7) Open the driver tab and check to make sure you have version 3.1.6.0.
- 8) Click on **Update Driver**.

[Back](#)[Next](#)

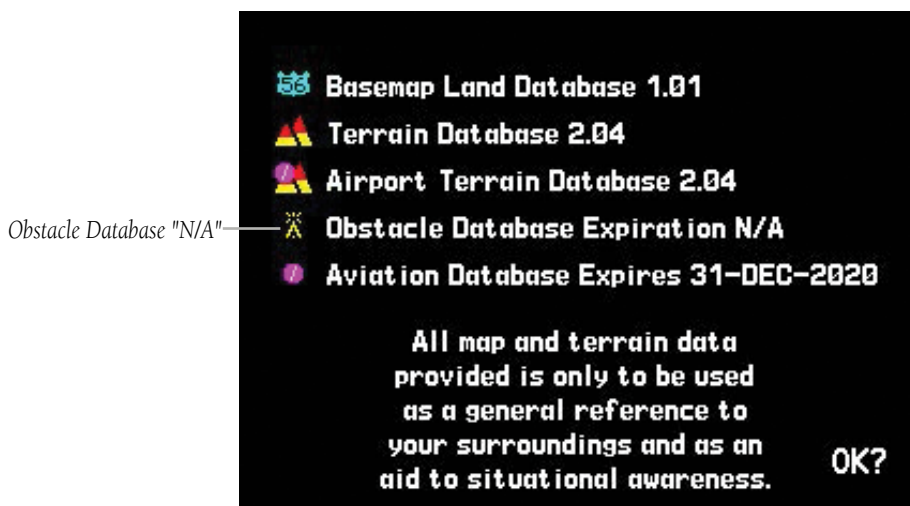
## TROUBLESHOOTING DATA CARD INTEGRITY

### HOW TO DETERMINE IF YOUR DATA CARD IS BAD



## WHY DOES THE GNC® NAVIGATOR SHOW N/A ON THE INITIAL LOADING SCREEN?

The GNC® 430/530 Series (Non-WAAS) navigator is unable to show database effectivity dates beyond the year 2020 for the Obstacle database. The unit will display "N/A".



GNC 430/530 Non-WAAS - Start-up Screen

The obstacle database functions properly in the system in every other way. The database cycle number is displayed correctly and may be used to confirm the effective and expiration dates are correct.



GNC 430/530 Non-WAAS - Database Info Page

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## DEVICE DATA PORT CHECK



**NOTE:** If all the previous troubleshooting fails, the data port in the navigator may be bad.

Contact Your Garmin Dealer



GNS 430 - Data Ports



Left-hand NavData Port

Right-hand Terrain/Obstacle Port

GNS 530 - Data Ports

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Garmin International, Inc.  
1200 East 151st Street  
Olathe, Kansas 66062, U.S.A.

Garmin AT, Inc.  
2345 Turner Road SE  
Salem, OR 97302, U.S.A.

Garmin (Europe) Ltd.  
Liberty House, Hounsdown Business Park  
Southampton, Hampshire SO40 9LR U.K.

Garmin Corporation  
No. 68, Zhangshu 2nd Road  
Xizhi District, New Taipei City, Taiwan

Contact Garmin Product Support at  
[www.flygarmin.com](http://www.flygarmin.com)