

GNS 400W/500W Series SW Version 5.20 Upgrade Supplement

This supplement provides information regarding new features that have been added with software version 5.20 for 400W/500W Series units.

You may download documents at <https://fly.garmin.com/support/> or contact Garmin Customer Support for a printed copy.

Documents That Have Been Revised For SW Version 5.20

- GNS 400W/500W Series Garmin Optional Displays Addendum
(Garmin P/N 190-00356-30) Rev L

Later versions of the document will include all changes from previous versions.

Pilot Guide Upgrade Supplements

The following table lists the previous revisions of the Pilot Guides and The Upgrade Supplements which, taken together, provide operating information for main software version 5.20. For instance, if the current Pilots Guide is rev G, then the v5.00 and v5.20 Upgrade Supplements should be downloaded and printed to use with the rev G manual to provide equivalent instructions to the latest, rev J Pilots Guide.

Current Pilot Guides			Required Supplements						
Pilot Guide	Part Number	Rev	190-00356-38 ² v5.20 Supplement	190-00356-37 ¹ v5.10 Supplement	190-00356-36 v5.00 Supplement	190-00356-35 v4.00 Supplement	190-00356-34 v3.30 Supplement	190-00356-33 v3.20 Supplement	190-00356-32 v3.00 Supplement
400W Pilots Guide or 500W Pilots Guide	190-00356-00 190-00357-00	H		x					
		G		x	x				
		E, F		x	x	x			
		D		x	x	x	x		
		C		x	x	x	x	x	
		A, B		x	x	x	x	x	x
Garmin Displays Addendum	190-00356-30	K	x						
		J	x	x					
		H	x	x	x				
		F	x	x	x	x			
		D	x	x	x	x	x		
		C	x	x	x	x	x	x	
		A, B	x	x	x	x	x	x	x
Display Interfaces Addendum	190-00356-31	C						x	

1. For non-GDL 88 installations, only pages 1 through 5 of the v5.10 supplement are required.
2. The v5.20 supplement is only required for installations that include the Flight Stream 210.

Part Eight: Garmin Connex Interface

Section 1: Introduction

Garmin Connex™ is Garmin's in-cockpit wireless connectivity system that provides access to weather updates, text/voice communications, and other data-sharing capabilities both in the air and on the ground. Flight Stream 210 is one of the Garmin Connex™ flight connectivity solutions. It is a small remotely mounted wireless gateway that, when connected to your GNS 430W/530W series navigator, enables compatible tablets and smart phones to stream information to and from that navigator via Bluetooth®. This allows you to use your mobile device's touch-screen as a cockpit interface. With Flight Stream 210 and a compatible personal electronic device (PED) you can transfer flight plans from your PED to your GNS 430W/530W, plus you can display high-quality GPS and AHRS attitude information on your PED using Garmin Pilot, or other appropriate app. Traffic (TIS-B) and subscription-free graphical weather (FIS-B) from a GDL 88, or Sirius/XM weather from a GDL 69, can also be shared between the GNS and your PED.



NOTE: *Garmin Connex features are available in GNS software version 5.20, and later.*

Starting with Connex

To get ready to use Connex, you must do the following:

- Install Garmin Pilot, or other appropriate app, on your PED.
- Have Flight Stream 210 installed in your aircraft and connected to the GNS.
- Pair your PED to Flight Stream 210 using the Bluetooth utilities on your PED and GNS.

Section 2: Bluetooth Status

From the Bluetooth Status page, the pilot can change the Flight Stream Bluetooth name, manage paired devices, and determine if the portable electronic device is connected and communicating with Flight Stream.

Pairing Your Devices

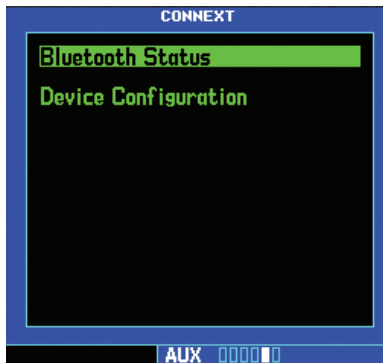
Before your GNS can interact with your PED, you must first “pair” them.



NOTE: New devices can only be paired with Flight Stream when the Bluetooth Status page is displayed on the GNS.

The pairing must be initiated from the PED. Pop-ups will be displayed on the PED and GNS to confirm the pairing.

1. On the GNS, go to the Aux - Connex page and select Bluetooth Status.



2. On the portable electronic device, go to the Settings - Bluetooth page. Select the Flight Stream device name.
3. On the GNS Bluetooth Status page, a pop-up will prompt you to Allow or Deny pairing. Press **ENT** to pair the devices.



- After pairing, the device names will show up in the Paired Devices section of the Bluetooth Status page. A filled-in square next to the device name signifies that the device is paired. An empty square signifies a device that is not paired.



In the above example, Amelia's tablet is paired while Wilbur's phone is not.

- After the units have paired, on the portable electronic device use Garmin Pilot (or other app) to connect to the GNS.

Editing the Bluetooth Name

The name of the Bluetooth connection can be edited on the Bluetooth Status page.

- While viewing the Bluetooth Status page, press the **small right** knob to activate the cursor.
- Use the **small** and **large right** knobs to edit the name and then press **ENT**.

View Device Details

The Device Details page shows information about the selected device.

- While viewing the Bluetooth Status page, press the **small right** knob to activate the cursor. Turn the **large right** knob to select the desired device and press **ENT**.



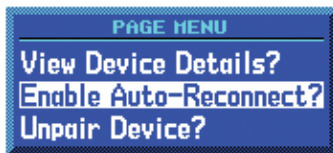
- Press **ENT** to return to the Menu.

Auto-Reconnect

The Auto-Reconnect function, when enabled, causes the GNS to automatically reconnect with the selected PED whenever it comes in range. PEDs are set to Auto-Reconnect by default. When this setting is disabled, the pilot must manually initiate the connection from the device.

To toggle the auto-reconnect status:

1. While viewing the Bluetooth Status page, press the **small right** knob to activate the cursor. Turn the **large right** knob to select the desired device and press **ENT**.
2. Press **MENU** and then turn the **small right** knob to select either "Enable Auto-Reconnect?" or "Disable Auto-Reconnect?".



3. Press **ENT** to enable Auto-Reconnect or push the **CRSR** to not make a selection.



4. To Disable Auto-Reconnect, turn the **small right** knob to select "Disable Auto-Reconnect?" and press **ENT**.



Unpair Device

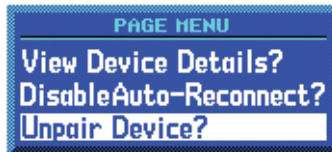
This function will unpair the selected PED so that the GNS will no longer communicate with it. If the pilot removes a paired device from this page by selecting “Unpair Device,” the device will have to be paired again before transferring data.



NOTE: *If pairing is removed from either the PED or GNS, it must also be removed from the other device before a new pairing to that same device can be established again. That is, pairing must be removed from both devices before re-pairing can occur.*

Method 1

1. While viewing the Bluetooth Status menu for a device, turn the **small right** knob to select “Unpair Device?” and press **ENT**.



2. Turn the **small right** knob to select “Yes?” and press **ENT** to Unpair the device.



Method 2

1. While viewing the Bluetooth Status page, press the **small right** knob to activate the cursor.
2. Turn the **small right** knob to select the desired device and press **CLR**.
3. Press **ENT** to Unpair the device.

Section 3: Device Configuration

The Device Configuration page shows the name of the connected device, software version of the device, description of the device, and whether flight plan import is enabled.



NOTE: Turning Flight Plan Imports off will disable the ability of the GNS to receive flight plans from the Flight Stream 210. This could be desirable if, for example, there are repeated erroneous attempts by a portable electronic device application to send flight plans to the GNS.

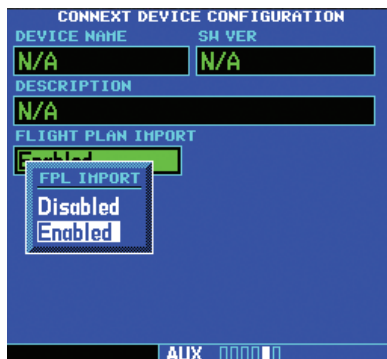
1. In the Aux page group, turn the **small right** knob to reach the Connex page.



2. Press the **small right** knob to activate the cursor. Then, turn the **small right** knob to select "Device Configuration." Press **ENT** to display the Connex Device Configuration page.



- Turn the **small right** knob to select the Flight Plan Import status of “Enabled” or “Disabled.” Press **ENT** to select the desired setting.



Section 4: Flight Plan Import

When the GNS is interfaced with Flight Stream 210, flight plans can be wirelessly imported into the GNS from supported apps, such as Garmin Pilot. The imported flight plans can then be activated or stored in the flight plan catalog once they have been previewed by the pilot.



NOTE: Flight plans with over 100 waypoints are truncated at 100 waypoints. The last waypoint in the imported/uploaded flight plan may not be the destination airport.



NOTE: Whenever a User Waypoint is imported, it is compared against the existing waypoints in the User Waypoint catalog. New waypoints are added to the catalog with a derived name of CX###, where ### represents the lowest available number in the catalog (e.g., CX001 or CX357). If the User Waypoint catalog already contains a waypoint with the same location, the existing name is retained. In either case, the imported name is discarded.

Importing a Flight Plan with Connex

When a flight plan is sent to the GNS from a PED using Connex, a message will appear on the GNS. After importing the flight plan, you can Activate, Store, or Scroll through that flight plan.

1. A message will appear on the GNS when a flight plan has been sent using Connex. Press **FPL** to go to the Connex Flight Plan Import page or press **MSG** to view the Message list.



- The list of pending flight plans from Connex will be shown. Press the **small right** knob to activate the cursor and then turn the **small right** knob to highlight the desired flight plan. Then, press **ENT** to preview the flight plan or press **CLR** to remove the flight plan.



- After selecting a flight plan, the Flight Plan Preview page will be shown with prompts to activate, store, or scroll through the selected flight plan. Turn the **large right** knob to highlight the desired action and press **ENT**.



Viewing the Connex Flight Plan Import Page

Pending flight plans available through Connex will be shown. After a flight plan is imported, it will not be shown in the list.

1. Press the **FPL** key to enter Flight Plan mode and then turn the **small right** knob to reach the Connex FPL Import page.

If there are any pending FPLs pressing the **FPL** key will default to the Connex FPL Import page.



2. Press the **Menu** key to display the Page Menu. Turn the **small right** knob to select the desired option and press **ENT**.

Deleting a Pending Flight Plan

The Delete Pending Flight Plan option deletes the currently highlighted flight plan.

1. While viewing the Connex FPL Import menu, turn the **small right** knob to select "Delete Pending Flight Plan?".



2. Press **ENT** to delete the pending flight plan and return to the Connex FPL Import page.

Delete All Pending Flight Plans

The Delete All Pending Flight Plan option deletes all of the pending flight plans in the list.

1. While viewing the Connex FPL Import menu, turn the **small right** knob to select "Delete All Pending Flight Plans?".



2. Press **ENT** to delete all pending flight plans and return to the Connex FPL Import page.

View User Waypoint List

The View User Waypoint List option displays all of the User Waypoints in the User Waypoint list.

1. While viewing the Connex FPL Import menu, turn the **small right** knob to select "View User Waypoint List?".



2. Press **ENT** to View the User Waypoint List.



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