
SERVICE INFORMATION LETTER NO. SI40NG-087

NOTE: Service information letters (SIL) are used only:

1. To distribute information from Diamond Aircraft Industries Inc. to our customers.
2. To distribute applicable information/documents from our suppliers to our customers with additional information.

NOTE: Typically there is no revision service for SILs. Each new information or change will be sent along with a new SIL.

1. TECHNICAL DETAILS

1.1 Aircraft Affected

Type: DA 40 NG
S/N All with Garmin G1000 NXi systems
(GDU software versions indicated on Garmin Service Advisory No. 22106 Rev A)

1.2 Subject

Garmin Service Advisory No. 22106 Rev A - G1000 NXi Systems Database Update

1.3 Reason

Garmin has issued a service Advisory No. 22106 Rev A instructing how to manually update the database when there is update available but it does not show in the display.

1.4 Information

For detailed technical information, refer to Garmin Service Advisory No. 22106, which is applicable without any further additions or restrictions.

Garmin Service Advisory No. 22106 is attached to this SIL. In case of doubt, contact Garmin Ltd.

2. OTHER DETAILS

To obtain satisfactory results, procedures specified in this service information letter must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service information letter. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service information letter if it is not incorporated. If you no longer own the aircraft to which this service information letter applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

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SERVICE ADVISORY

NO.: 22106 Rev A

TO: Garmin G1000® NXi Owners and Operators
DATE: November 10, 2022
SUBJECT: Database Update

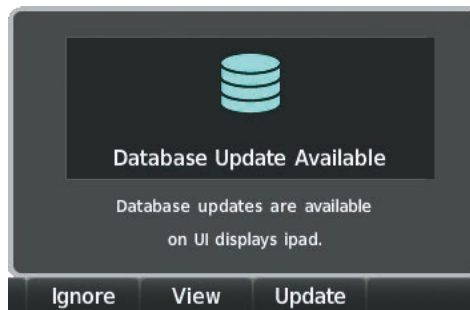
PRODUCTS AFFECTED

Garmin G1000 NXi systems (with the following GDU Software Versions), interfaced to a Garmin Flight Stream 510 are affected:

- 20.00 through 20.92.03
- 21.00 through 21.40
- 30.00 through 30.02
- 31.00 through 31.11.10

ISSUE

When a database update is available the prompt shown below may not appear on the display.



ACTION

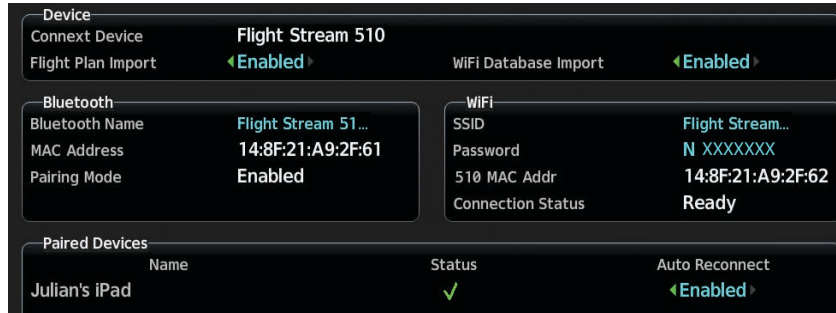
Do the following to update the database manually.

1. Apply power to the G1000 NXi.
2. Push the ENT Key or the right-most softkey on MFD display to acknowledge the initial MFD screen.
3. On the PED, start Garmin Pilot and touch Home > Connex > Database Concierge.
4. Turn the large FMS Knob and select 'Aux'.
5. Turn the small FMS Knob and select the 'Connex Setup'.

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6. Make sure Wi-Fi Database Import is enabled in the 'Device' Window (Refer to Additional Features section for instructions to enable Wi-Fi Database Import).



7. Make sure PED is enabled with Bluetooth in the Bluetooth settings on the PED.
8. In the 'Paired Devices' Window on the 'Connex Setup' Page, make sure the system is paired with the PED in use. (Refer to Additional Features of the appropriate Pilot's Guide for instructions on connection to a preferred device).
9. Connect the PED to the Flight Stream 510 via Bluetooth.
10. On the PED, go to Bluetooth settings and select the Flight Stream 510.
11. Accept the Bluetooth pairing prompts on the PED and the Touchscreen Controller.
12. If the prompt expires, open Bluetooth settings on the PED and select the Flight Stream 510.
13. Turn the large FMS Knob and select 'Aux'.
14. Turn the small FMS Knob and select the 'Aux - Databases' Page.
15. Push the Device Softkey to view databases that are ready to be loaded from the PED.



NOTE

Selecting the Stby/Actv Softkey will again display the current Standby and Active databases).



NOTE

The 'Aux - Databases' Page will show the databases connected to the PED in place of the active databases on the system. Databases selected to load to the system will be indicated by a single cyan arrow.

16. Push the FMS Knob.



NOTE

The first database title on the screen will be selected.

17. Push the ENT key to select the database to transfer.
18. Turn the small FMS knob as necessary to select additional databases.
19. Repeat as necessary.
20. Push the Update Softkey.

21. Close Garmin Pilot on the PED and select the Flight Stream 510 as the Wi-Fi source in the settings of the PED if not already selected.

Or:

If using a device that has not been previously paired with the system:

- a. Close Garmin Pilot on the PED.
- b. Select the Flight Stream 510 as the Wi-Fi source.



NOTE

A password prompt will appear on the PED.

- c. Enter the password shown in the 'Password' Field of the 'Aux - Connex Setup' Page and select 'Join'.

22. On the PED, restart Garmin Pilot and touch Home > Connex > Database Concierge.



NOTE

Database Update status will appear in the 'Status' Window at the top of the page.

23. Monitor update progress in the 'Status' Window, or on the PED from the Garmin Pilot application Database Concierge page.

The screenshot displays the 'Aux - Databases' screen in the Garmin Pilot application. At the top, flight data is shown: 0KT, DTK ___°, TRK 358°, ETE ___:___, and altitudes of 136.975 and 118.000. The main status area shows 'Databases OK' and 'Updating 7 databases: 89% complete, 1:24 remaining'. The preferred device is identified as 'Cliffs iPad'.

The 'System Databases' section contains a table with the following data:

	Standby (Effective)	Active (Expires)
Navigation	Transfer Complete 01-JAN-90	2207 14-JUL-22
Basemap Land	20M3	20M3
Terrain	20T1	20T1
Obstacle	Transfer Complete 01-JAN-90	22B4 14-JUL-22
SafeTaxi	Transfer Complete 01-JAN-90	22S4 14-JUL-22
Airport Directory	Transfer Complete 01-JAN-90	22D4 14-JUL-22
FliteCharts	Transfer Complete 01-JAN-90	2204 14-JUL-22
ChartView	Transfer Complete 01-JAN-90	2214
IFR/VFR Charts	Transfer Complete 01-JAN-90	2207 14-JUL-22
Checklist	None	None

At the bottom of the screen, there are navigation buttons: Device, Details, Update, Restart, and Checklist.



NOTE

When all databases have been successfully transferred from the PED, they will appear in the 'Standby' Column.



NOTE

The 'Databases' Field will display 'Databases out of date' or 'No update in progress'. A cyan double-arrow will appear between the 'Standby' and 'Active' columns to show which Standby databases will be transferred to 'Active' at the next power cycle.

The screenshot shows the 'Aux - Databases' screen. At the top, it displays flight parameters: 0KT, DTK ___°, TRK 359°, ETE ___:___, and fuel gauges for 136.975 and 118.000. The status section indicates 'Databases out of date' and provides instructions to 'Restart avionics to activate selected standby databases' and 'Preferred Device Cliffs IPad'. Below this is a table of 'System Databases' with columns for 'Standby (Effective)' and 'Active (Expires)'. A cyan double-headed arrow is positioned between the columns for several databases, indicating they will be transferred to the active state.

	Standby (Effective)		Active (Expires)
Navigation	2207 14-JUL-22	↔	2206 14-JUL-22
Basemap Land	None		20M3
Terrain	None		20T1
Obstacle	22B4 14-JUL-22	↔	22B3 14-JUL-22
SafeTaxi	22S4 14-JUL-22	↔	22S3 14-JUL-22
Airport Directory	22D4 14-JUL-22	↔	22D3 14-JUL-22
FliteCharts	2204 14-JUL-22	↔	2203 14-JUL-22
ChartView	2214		2214 28-JUL-22
IFR/VFR Charts	2207 14-JUL-22	↔	2206 14-JUL-22
Checklist	None		Missing

At the bottom of the screen, there are softkeys for 'Details', 'Restart', and 'Checklist'.

24. Push the Restart Softkey to restart the system and load the updated database(s). If the Restart Softkey is subdued, remove power manually and wait at least 60 seconds before applying power.
25. Push the ENT Key or the right-most softkey on MFD display to acknowledge the initial MFD screen.
26. Turn the small FMS Knob and select 'Databases'.

27. Make sure the standby databases transferred and are now in the 'Active' Column.



28. To manually activate any databases that did not transfer to the 'Active' Column:

- a. Push the FMS Knob. The first database title on the screen will be selected.
- b. To select the database for transfer, push the ENT Key. A cyan double-sided arrow will appear indicating the standby database will become active.

Or:

- c. Push the Menu Key and select 'Swap Standby and Active' using the small FMS Knob.
- d. Push the ENT Key. A cyan double-sided arrow will appear indicating the standby database will become active.
- e. Push the ENT Key or the FMS Knob to exit.
- f. Turn the small FMS Knob as necessary to select the additional titles.
- g. Repeat steps a through f for additional databases to be transferred.

29. Remove power and wait at least 60 seconds before applying power to the system.

30. Push the ENT Key or the right-most softkey on MFD display to acknowledge the initial MFD screen.

31. Turn the large FMS Knob and select Aux.

32. Turn the small FMS Knob and select Databases.

33. Make sure the standby databases transferred and are now in the 'Active' Column.

RESOLUTION

This has been fixed in the following GDU Software Versions:

- 20.93
- 21.45
- 21.40.1
- 30.03
- 31.11.20
- 32.00