GARMIN.

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SERVICE ADVISORY
NO.: 1612 Rev E

TO: Owners and Operators of Garmin Integrated Flight Decks
DATE: October 13, 2020
SUBJECT: 2020 IGRF (International Geomagnetic Reference Field) Magnetic Field Model
REVISION E: Added guidance for 2020 IGRF

AFFECTED PRODUCTS

All Garmin G1000 Integrated Flight Decks (G900X, G950, G1000(H), G1000 NXi, Cirrus Perspective™, Embraer Prodigy™) with a Garmin AHRS and GDU software versions 6.00 and greater are affected.

All Garmin G2000, G3000, G5000(H), and Embraer Prodigy® Touch systems with a Garmin AHRS are also affected.

> **NOTE**
>
> G1000, G900X, G950, Cirrus Perspective, and Embraer Prodigy systems with GDU software versions 5.02 and previous are covered by a separate service bulletin. Contact your local dealer.

DESCRIPTION

The 2020 IGRF Magnetic Field Model is now available. Refer to the RESOLUTION section for instructions on how to update the IGRF Magnetic Field Model. Completion must be accomplished before December 31, 2021.
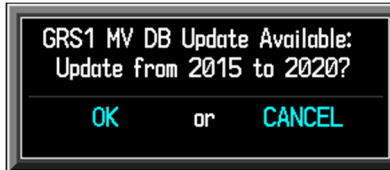
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<u>**RESOLUTION**</u>
Garmin Integrated Flight Decks with GIA software versions less than 7.00 and greater than 7.71
The 2020 IGRF Magnetic Field Model is available to update as part of the Navigation Database cycle 2012 (and subsequent database cycles).

1. Update the Navigation Database as described in the applicable pilot's guide.
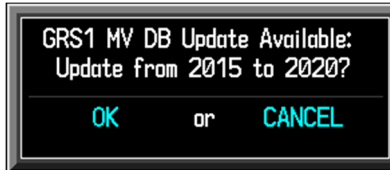2. At the following prompt, select "OK" to update the IGRF Magnetic Field Model.

```
GRS1 MV DB Update Available:
Update from 2015 to 2020?

    OK      or     CANCEL
```

NOTE

For systems with multiple GRS units installed, a similar message will appear for each GRS.

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Garmin Integrated Flight Decks with GIA software versions 7.00 to 7.71

After updating to Navigation Database cycle 2012 (or subsequent database cycles), the following prompt will show on the display. Selecting "OK" to update the IGRF will result in a timeout error. The IGRF will not be updated.

```
GRS1 MV DB Update Available:
Update from 2015 to 2020?

   OK      or    CANCEL
```

To update the IGRF do the following:

1. Put a blank SD card in your PC's SD card reader/writer.

NOTE

For G900X, G950, G1000(H), Cirrus Perspective, and Embraer Prodigy systems using 006-B1330-04, the SD card must be SanDisk brand 2GB or less and formatted to FAT 32.

2. Go to fly.garmin.com/fly-garmin/redirect/magvar-update.
3. Download one of the following 2020 IGRF database files.
    - 006-B1330-04 - G900X, G950, G1000(H), Cirrus Perspective, and Embraer Prodigy
    - 006-B1330-05 - G2000, G3000, G5000, and Embraer Prodigy Touch systems
4. Save the database file to a PC.
5. Double-click on the .exe database file saved in Step 4.
6. Obey the onscreen prompts to save the database to the SD card.

NOTE

Do not copy the .exe database file to the SD card.

7. Eject the SD card.
8. Connect the aircraft to a ground power unit.

9. Put the SD card in the top slot of **PFD1**.

NOTE

Not using PFD1 may result in a failed IGRF database.

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10. Energize the system.
11. This prompt will show on the display.

NOTE

The screenshot below is for reference only. Actual GDU software version shown may differ depending on the version of the current GDU software.

```
INITIALIZING SYSTEM
CHECKING SOFTWARE VERSION.
GDU SOFTWARE VERSION 15.00 DETECTED. PLEASE WAIT FOR THE SYSTEM TO INITIALIZE.
0% COMPLETE
```

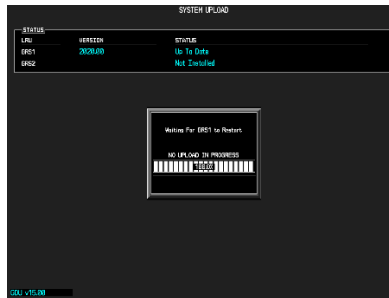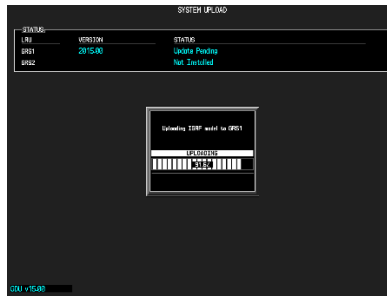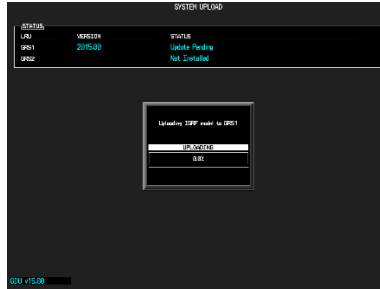12. The system will reboot and start uploading the 2020 IGRF Magnetic Field Model.

NOTE

Do not interact with the MFD during this process. Interacting with the MFD may result in a failed IGRF database.

CAUTION

This process may take longer than 20 minutes to complete. Do not perform a system power cycle during this step.

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13. Do the following if progress does not begin:
    a. Stop power to the appropriate GRS.
    b. Energize the appropriate GRS.

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14. When the update is complete this prompt will show on the display.

15. Remove the SD card.
16. Stop power to the system.