

# INSTALLATION MANUAL



## **Agra-GPS CNH-JD-C1200 Bridge for Case AF 9,10,11 and NH CR 9,10,11 series combines**

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Release Notice

This is the March 2025 release (Revision A) of the CNH-JD-C1200 Bridge Installation Manual.

**Disclaimer**

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**DO NOT USE THE CNH-JD-C1200 Bridge IF YOU DISAGREE WITH THE DISCLAIMER.**

## Important Safety Information

Read this manual and the operation and safety instructions carefully before installing the CNH-JD-C1200 Bridge.

- Follow all safety information presented within this manual.
- If you require assistance with any portion of the installation or service of your equipment, contact your Agra-GPS for support.
- Follow all safety labels affixed to the system components. Be sure to keep safety labels in good condition and replace any missing or damaged labels. To obtain replacements for missing or damaged safety labels, contact Agra-GPS.

When operating the machine after installing the CNH-JD-C1200 Bridge, observe the following safety measures:

- Be alert and away of surroundings.
- Do not operate the CNH-JD-C1200 Bridge system while under the influence of alcohol or an illegal substance.
- Remain in the operator's position in the machine at all times CNH-JD-C1200 Bridge system is engaged.
- Determine and remain a safe working distance from other individuals. The operator is responsible for disabling the CNH-JD-C1200 Bridge system when a safe working distance has been diminished.
- Ensure the CNH-JD-C1200 Bridge is disabled prior to starting any maintenance work on the machine or parts of the CNH-JD-C1200 Bridge system.
- Follow all safety instructions from the CNH system as well as the JD system!
- The CNH-JD-C1200 Bridge must only be used in the field, never on the street!

## Electrical Safety

- Always verify that the power leads are connected to the correct polarity as marked. Reversing the power leads could cause severe damage to the equipment.
- Verify that all cables and connectors are not going over sharp edges and are not pinned, as this could cause power shortages and/or malfunctions.

## **Introduction**

Congratulations on your purchase of the CNH-JD-C1200 Bridge. The CNH-JD-C1200 Bridge is designed to bridge the communication between a CNH combine (Autoguide ready) and a John Deere display (1800, 2600, 2630, 4640, 5 gen). This allows a JD display to create maps in the John Deere format and also provides autosteer.

The operator used the JD display to create AB-lines. The current position is determined by a John Deere or AgraGPS receiver and all this information is used by the CNH-JD-C1200 Bridge to create steering instructions for the combine. All conditions for autosteer such as minimum speed, steering enabled etc. must be met by the system before the autosteer engage option in the combine can be activated.

### **NOTICE**

This manual is not intended to replace the manuals for the Case/NH combine or the John Deere system. The operator must read and understand the manuals and instructions of these systems, before using the CNH-JD-C1200 Bridge.

## Step 1: Mounting the CNH-JD-C1200 Bridge

The CNH-JD-C1200 Bridge is installed right of the driver seat inside the cab. Lift the plastic cover and you should find lots of space to setup the CNH-JD-C1200 bridge.

The Bridge adaptor has 4 connectors which must be connected to the combine. One connects to a 12-pin DTM deutsch connector on the right side of the combine for power. It inserts into that seat connection for its power supply.

2 more green diagnostic port connections go into the panel to the right of your seat.

Picture shows an install in progress!

The harness to the valve will require a hole to be drilled in the cab floor under the map in the picture. Be careful not to hit any components below the cab!

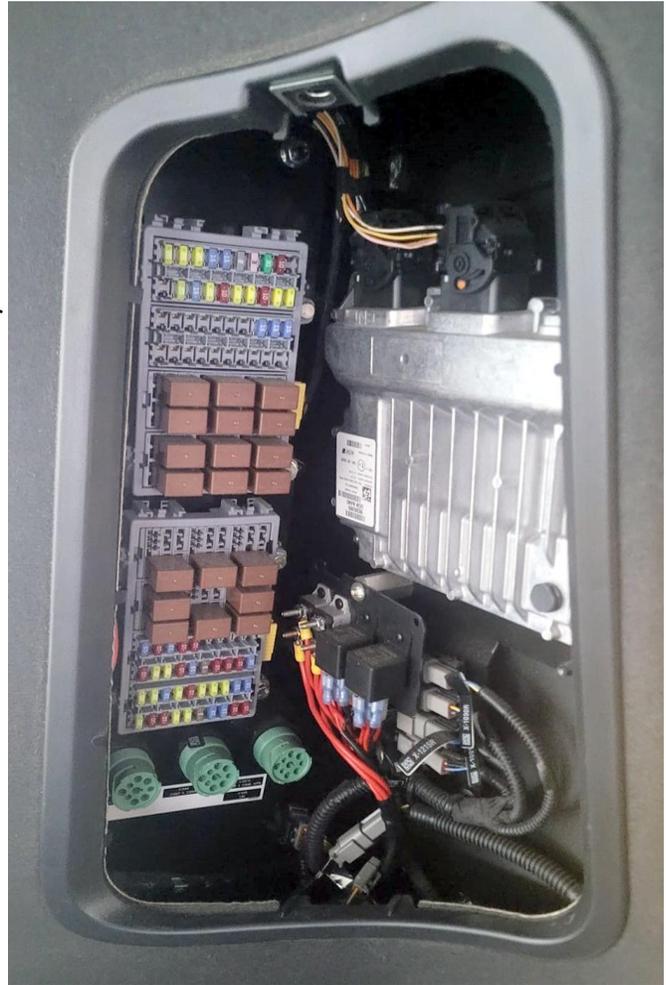


The diagnostic port connectors are labelled X524 and X548.

X548 is the middle connector and is actually optional, it can provide NMEA2000 GPS information to the 1200 displays in the combine. This is not required for autosteer or yield and moisture mapping on the JD display. The connector has 2 wires green/yellow on the AgraGPS harness.

X524 connects 2 pairs of green/yellow to CAN2 and CAN3 of the combine.

This connections provides status information, yield , moisture and other data to the AgraGPS module and is critical for proper operation.



The last connection from the bridge goes from the black DTM connection of the bridge to the 12 pin deutsch connector below the cab.

You will need to drill a hole in the cab floor near the bridge location. Lift the map, check the area below the cab for any components before you drill the hole!

Disassemble the 12-pin DT connector to fit the harness through the hole. Use a grommet to protect the harness from the sharp metal edges!



Connect to the X1214P near the steering valve.



**The John Deere receiver must be mounted at the front of the cab.**

Mount the JD GPS or Agra-GPS receiver near the front of the cab.

Note: Mounting the receiver on the grain tank is NOT recommended as the build-in gyros in these receivers will cause poor steering performance when installed on a unstable graintank location.



## Step 2: Operating the CNH-JD-C1200 Bridge

If the JD display shows "road mode" or does not go from "Steer OFF" (2 parts of the PIE) to "Steer ON" your combine is not ready for autosteer.

For the combine to be autosteer ready, you must hold the "autosteer enable" button in the top panel for several seconds. You must also move the steering wheel by hand at least once.



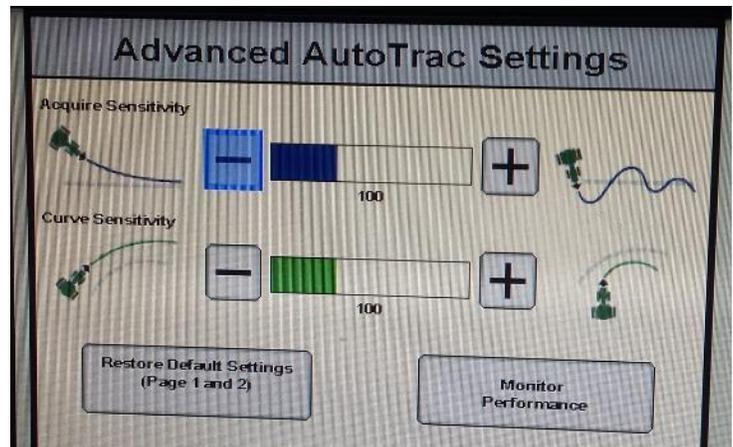
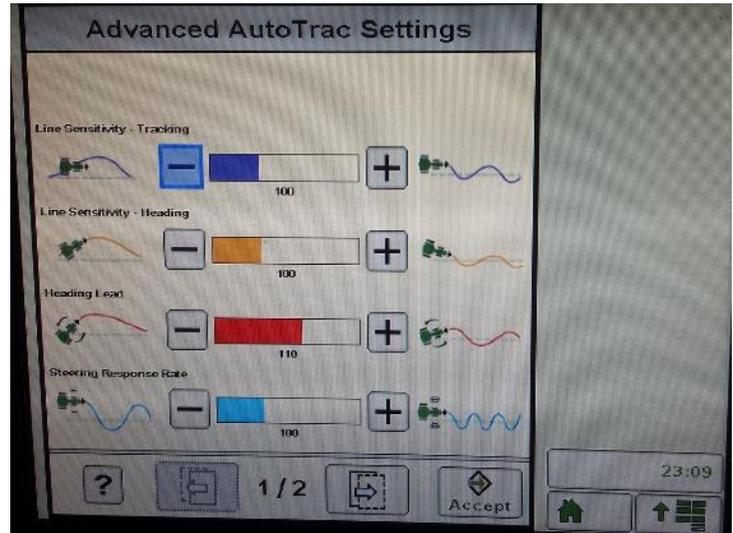
The autosteer is engaged with the "Resume" button on the right side of the control handle.

Disengage by moving the steering wheel.



## Adjusting steering

Using the JD display you may adjust your steering performance. Most machines will perform optimally with all JD settings at 100. If a change is required, find an open area where you can travel at target speed and adjust one parameter at a time until you are satisfied with the steering performance.



## ISO Application

The bridge comes with an ISO application that will be loaded onto the John Deere monitor. The app should automatically store itself on the monitor after the first few minutes of the initial startup. On subsequent runs the app will load itself from memory as soon as possible. The CASE app includes:

- Calibration
- Option to change work recording mode
- Option to change the machine type
- Optional autosteer engage button & status
- Help page

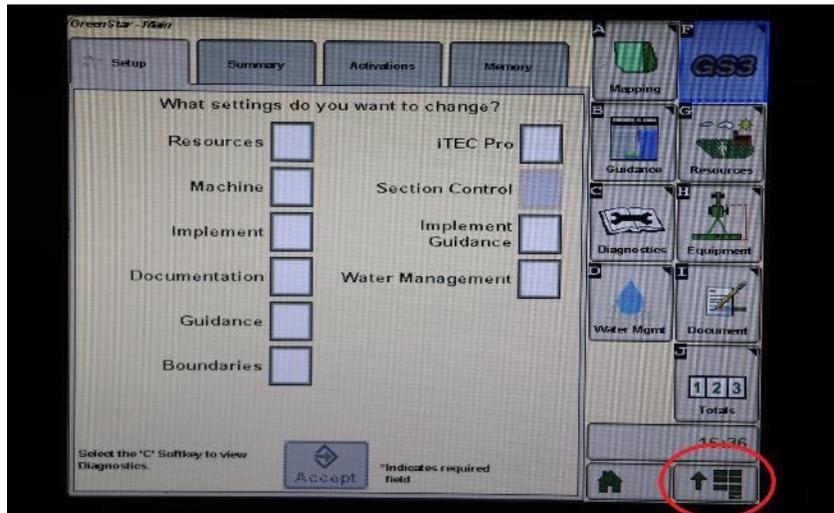
Where to find the CASE ISO application on the John Deere monitor:

- On a John Deere 4640 the application will be loaded in the ISOBus VT section on the main page of the display.





- On John Deere 1800, 2600, 2630 the application will be shown in the side menu of the John Deere display. The side menu is opened by clicking the button on the bottom right of the display.



- **NOTE:** John Deere 1800 and 2600 monitors do not show a loading bar for ISO applications, while 2630 and 4640 monitors do.



If the ISO application is not loaded:

- Try clearing the monitor's memory. On 2630 monitors this can be done in the Message Center in the side menu. Go to the Cleanup tab, check controllers, then Begin Cleanup. On 4640 monitors or 5gen monitors this can be done in the info page of the ISOBus VT. Navigate to the ISOBus VT window and click the info button at the top of the page, then press Clean Up ISO Bus VT.
- Do a hard reset of the John Deere monitor (Unplug it, then plug it back in).
- Do a full restart of the machine. Remember the app may take a few minutes to load.