

INSTALLATION MANUAL

Agra-GPS CNH-JD Bridge for a Quadtrac (CAN steered) 2016-2020



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Release Notice

This is the July 2026 release of the CNH-JD Bridge for CNH Quadtrac with canbus steering installation manual.

Disclaimer

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DO NOT USE THE CNH-JD 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 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 dealer 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 Bridge, observe the following safety measures:

- Be alert and aware of surroundings.
- Do not operate the CNH-JD Bridge system while under the influence of alcohol or an illegal substance.
- Remain in the operator's position in the machine at all times while the CNH-JD Bridge system is engaged.
- Determine and maintain a safe working distance from other individuals. The operator is responsible for disabling the CNH-JD Bridge system when a safe working distance has been diminished.
- Ensure the CNH-JD Bridge is disabled prior to starting any maintenance work on the machine or parts of the CNH-JD Bridge system.
- Follow all safety instructions from the CNH system as well as the JD system!
- The CNH-JD 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 short circuits and/or malfunctions.

Introduction

Congratulations on your purchase of the CNH-JD Bridge. The CNH-JD Bridge is designed to bridge the communication between a Case or New Holland Quadtrac (canbus autosteer ready) and John Deere or Vision displays. This allows a JD display to create maps in the John Deere format and also provides straight AB-Line autosteer.

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

NOTICE

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

What's In The Box

The CNH-JD-Q kit consists of the following items:

- a. CNH-JD-Q Bridge
- b. CNH-JD-Q Machine Adapter
(SKU: CNHJDQMABS2)
- c. CNH-JD-Q Roof Adapter
(SKU: CNHJDQRABS2)

NOTE: If you are missing any of these items or they appear to be damaged please contact +1 (825) 247-2477 or support@agragps.com



Installation of the CNH-JD Bridge

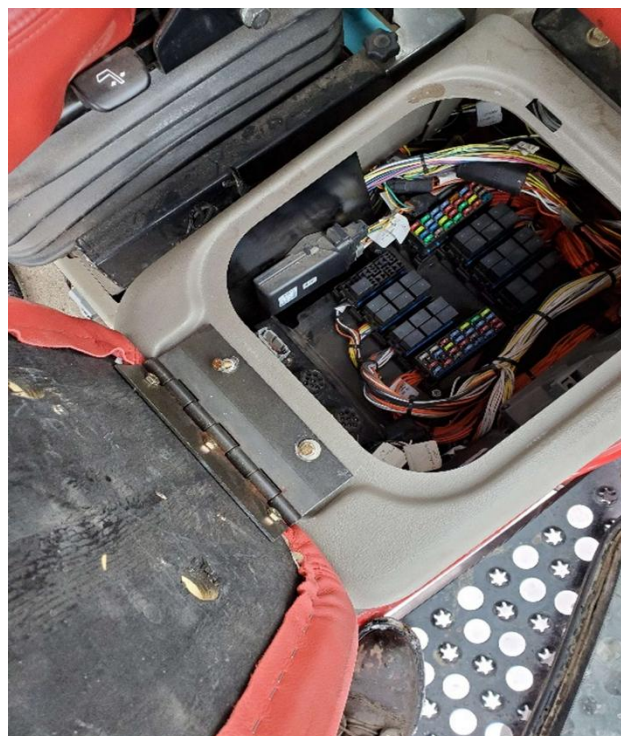
Note: If you need to verify that your Case Quadtrac is a “canbus” steered machine, please check for a built-in wheel angle sensor at the articulation point! If the wheel angle sensor shown below is installed on your machine, your quadtrac is canbus steered!



Step 1: Disconnect Existing Steering Controller

Typically, the tractor is supplied with a CNH NavController module (by Trimble). This must be disconnected.

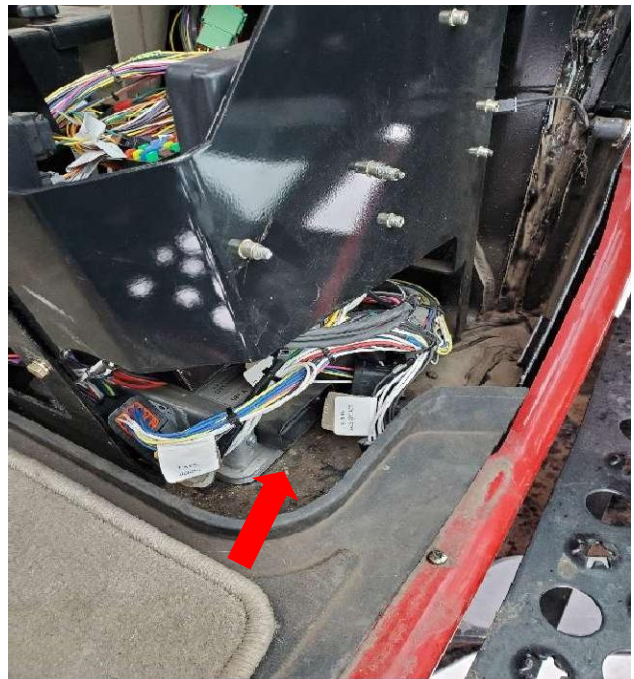
(A) Remove the buddy seat.



(B) Remove the plastic cover that was under the buddy seat, there are bolts under the rubber floor mat that must be removed, and some other plastic mounts between passenger and driver seat. You should now be able to lift the buddy seat enough to undo the 2 connectors into the nav controller.



(C) At the bottom, underneath the fuse panel there will likely be a large silver CNH navigation controller. Remove both the 40 and 24 pin connectors.



If the Serial NMEA extension adapter was provided, it will connect to the 40-pin machine connector. The extension cable is typically run behind the seat (the air vent and cup-holder inserts may be removed to assist with routing). The other end provides a 3-pin triangular Deutsch plug typically used with some seed rate controllers, or an additional adapter with a standard 9-pin D-sub RS-232 connector.

Step 2: Installing the Machine Adapter

The Machine Adapter is installed in the back right corner of the cab.

The plastic cover can be lifted enough to access the required connectors and there is space for the Bridge box at the bottom.



Open the side door and then remove the top 2 screws for round pipe mount.



Now remove the door latch which still holds the plastic cover in its place.
Once the door latch is off, carefully lift the plastic from the cab pillar.



Find the connector labelled C602 behind the panel.
Open it and connect the 12-pin mini passthrough of the Machine Adapter.

Note: It is sometimes also called the display connector! If you do not have a display you may only see one open connector. If a display cable exists you have to open the connection and insert the Machine Adapter passthrough.



The 4-pin deutsch connectors of the Machine Harness insert into the C611M and 611F connectors.

This will integrate your JD receiver and display into the ISO Harness of your tractor.



Now run the display cable through the oval opening.

The 12-pin deutsch connector fits through that opening and should be coming out at the bottom of the plastic panel together with the first cable from the connector.

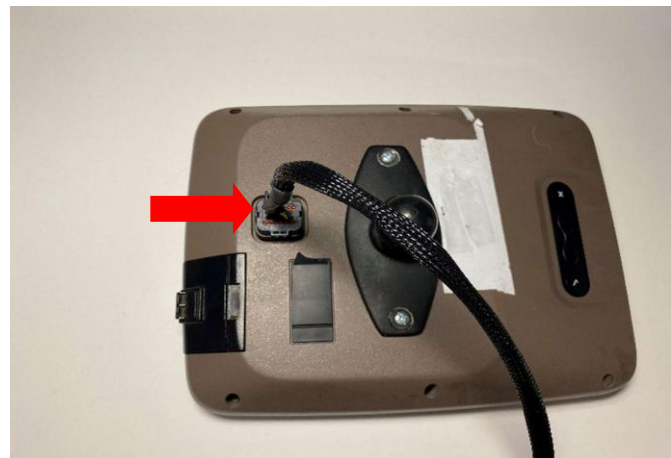


Once you have routed the cable to the bottom, connect it with the Bridge. Then mount the bridge securely in the opening.



Route the black monitor connector to your JD-Display mount and connect it to your monitor.

Note: The back of your display may look different but this connector will work for all displays.



Step 3: Installing the Roof Adapter

The mounts for the JD display and receiver are NOT part of the CNH-JD-Q Bridge kit; however, they can be purchased separately from Agra-GPS.

The JD mount can easily be bolted to the metal bracket provided on the roof of the CNH Quadtrac.

After mounting, use the Roof Adapter to connect the JD receiver to the CNH tractor roof.

DO NOT CONNECT THE John Deere GPS receiver without the adapter cable to the CNH roof outlet!



Step 4: Once the receiver is installed, move on to the Bridge User Manual for instructions on how to access the ISO app

NOTE: If you do not have the Bridge User Manual it can be found at <https://www.agragps.com/bridge-user-manual-english/>

Engaging Steering

Use the John Deere monitor as you do in a John Deere tractor, set an AB-line, activate "Steer ON", then use the built-in resume button to activate autosteer!

Note: If you have your forward/reverse lever in the park position, you will not be able to engage. The John Deere monitor will show a "Road switch" message!

On a New Holland T9 the resume button is located in the joystick; however, it works the same.

