

INSTALLATION MANUAL

Agra-GPS CNH-JD Bridge for a Quadtrac (can based steering)



Version 1.0
Revision B
March 2020



Contact information
Agra-GPS Ltd.
Box 2585
Stony Plain, AB
T7Z 1X9
CANADA
001 780 990 4052 Phone
www.agra-gps.com

Release Notice

This is the March 2020 release (Revision B) of the CNH-JD Bridge for CNH Quadtrac with canbus steering installation manual.

Disclaimer

While every effort has been made to ensure the accuracy of this document, Agra-GPS Ltd assumes no responsibility for omissions and errors. Nor is any liability assumed for damages resulting from the use of information contained herein. Agra-GPS Ltd shall not be responsible or liable for incidental or consequential damages or a loss of anticipated benefits or profits, work stoppage or loss, or impairment of data arising out of the use, or inability to use, this system or any of its components.

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 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 away 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 remain 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 power shortages 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 a John Deere display (1800, 2600, 2630 or 4640). 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.

Installation of the CNH-JD Bridge

Note: If you need to verify that your Caser Quadtrac is a „canbus“ steered machine, please check for a build-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: Mounting the CNH-JD Bridge

The CNH-JD Bridge is installed in the right back 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 insert the provided AgraGPS harness.

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 AgraGPS connectors.

The 4-pin deutsch insert into the C611M and 611F connectors. This will integrate your JD receiver and display into the ISO Harness of your tractor.



Run the cable to the bottom to connect to the CNH-JD Bridge.
There is enough space behind the plastic panel to hide the cable.



Now run the the display cable though the oval opening.

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



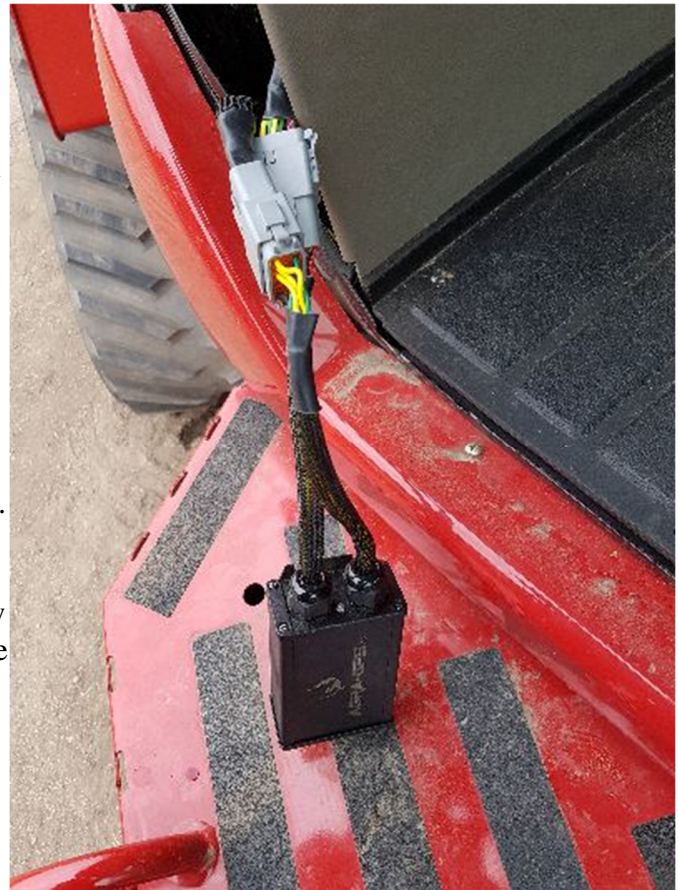
Once you have routed both cables to the bottom, connect them with the Bridge.

Finish the Bridge part of the install by placing the Bridge in the opening and routing the display cable to your JD display mount.

NOTE: Should your machine be equipped with a navcontroller from CNH, it must be disconnected!

You can find the navcontroller at the bottom of the passenger seat. Remove the passenger seat cushion. Then fold the floor cover back to remove some more nuts. Last remove some plastic mounts between passenger and driver seat. You should now be able to lift the passenger seat enough to undo the 2 connectors into the nav controller.

They are secured with an allen key bolt, a 40-pin and a 24-pin connector. Simply disconnect them.



Step 2: Mounting the JD receiver

The mounts for the JD display and receiver are NOT part of the CNH-JD Bridge.

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

Using the short 12-pin adapter cable, the JD receiver is connected to the 12-pin deutch in the CNH tractor roof.

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



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

Note: If you have your forward/reverse level 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.

