INSTALLATION MANUAL

Agra-GPS CLAAS-JD Bridge for Xerion Tractors

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AGRA-GPS LTD

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Release Notice

This is the July 2026 release of the CLAAS-JD Bridge Installation Manual for Xerion tractors.

Disclaimer

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DO NOT USE THE CLAAS-JD Bridge IF YOU DISAGREE WITH THE DISCLAIMER.

Important Safety Information

Read this manual and the operation and safety instructions carefully before installing the CLAAS-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 CLAAS-JD Bridge, observe the following safety measures:

- Be alert and away of surroundings.
- Do not operate the CLAAS-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 CLAAS-JD Bridge system is engaged.
- Determine and remain a safe working distance from other individuals. The operator is responsible for disabling the CLAAS-JD Bridge system when a safe working distance has been diminished.
- Ensure the CLAAS-JD Bridge is disabled prior to starting any maintenance work on the machine or parts of the CLAAS-JD Bridge system.
- Follow all safety instructions from the CLAAS system as well as the JD system!
- The CLAAS-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 CLAAS-JD Bridge! This product is designed to bridge the communication between a CLAAS Xerion tractor 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 CLAAS-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 CLAAS 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 CLAAS-JD Bridge.

What's In The Box

The CLAAS-JD-X kit consists of the following items:

A. CLAAS-JD-X Bridge
B. CLAAS-JD-X Machine Adapter
(SKU: CLAASJDXMABS2)
C. JD-12
(SKU: JD12)

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

Receiver Mount

The receiver mount is not provided with the kit and must be ordered separately. It should be mounted at the front center of the cab roof exterior. For the Trion cab, use the "Trion mount" intended for this machine: the slope of the cab roof is compensated by the mount in order to keep the receiver level when the machine is level. For machines prior to the new-style cab, specify the flat receiver mount.

The mount for use with the Trion cab is available from Agra-GPS (specify the "Trion mount")

Step 1: Install Receiver Mounting Bracket

The Trion cab roof may be provided with a circular factory receiver mount, or perhaps no mount at all. The following instructions demonstrate the procedure when no factory mount is provided. The following page shows the factory mount.

NO FACTORY RECEIVER MOUNT

Remove the 2 plastic eyebrow panels in the order shown. (Later on, the receiver cable will be routed through the bottom slot indicated by arrow).

Install with the bracket square to the machine and flush to the front of the eyebrow panels. Drill through the plastic and install the backing plate with bolts and locking nuts.

Backing plate shown.

IF FACTORY RECEIVER MOUNT IS PRESENT

If a factory mount is present, remove the 4 screws and stow the intermediate round plate. Leave the bottom plate which secures the factory receiver connectors.

Loosen the right roof eyebrow panel as shown on the previous page. The center eyebrow panel need not be removed for this procedure.

Loosen the rubber gasket to allow the harness connectors through

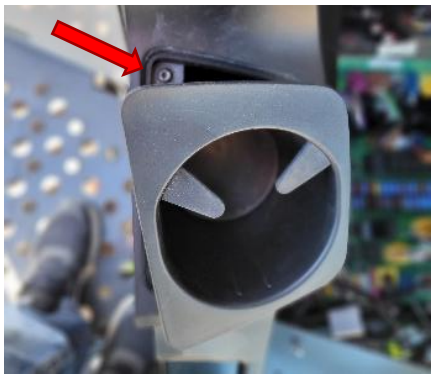
Set the AgraGPS Trion mount on this spot and use the 4 screws to fasten it.

Step 2: Remove Interior Panels

The following interior plastic panels must be opened. See below for further tips on removing these panels. Before starting, fully open the right-hand cab window.

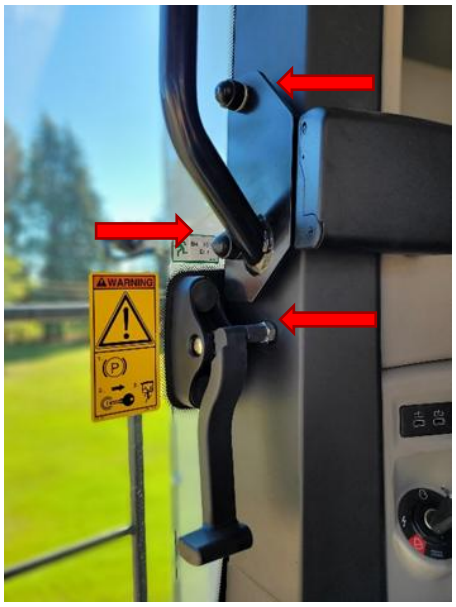
1) Squeeze top and bottom of insert and pull out
2) Push button indicated and the switch panel will pop downward
3) If present, pull shelving insert out, and take off the plastic panel behind it
4) Take off cover for vertical post cable run (further instructions, next page)

5) Remove two fuse panel covers near the floor
6) Remove lower door panel (NOTE: remove the cup holder first, as there is an extra screw beneath it).



Further Instructions for Removing Vertical Plastic cover:

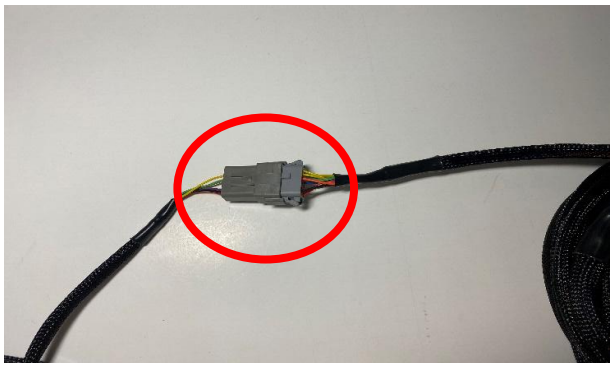
- After fully opening window, remove handle and window latching stem (arrows)
- Remove hanger hook (remove plastic cover from the bottom, then the screw behind)
- Pull vertical plastic off: <u>spreading the bottom first as shown</u>, then pull towards you over the handle mounts and over the window latching stem, then sliding downward



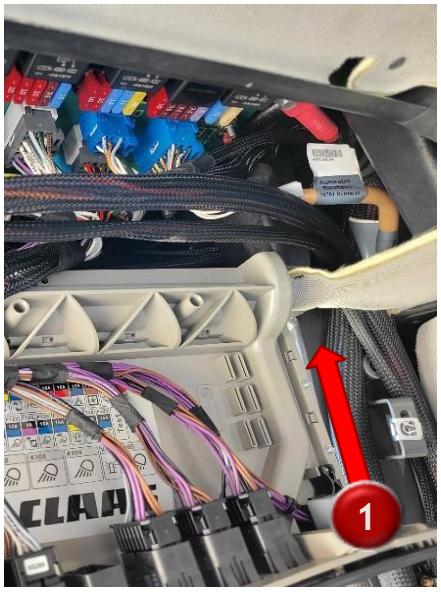
Step 3: Installing the JD-12 Adapter

Once all the necessary panels have been removed

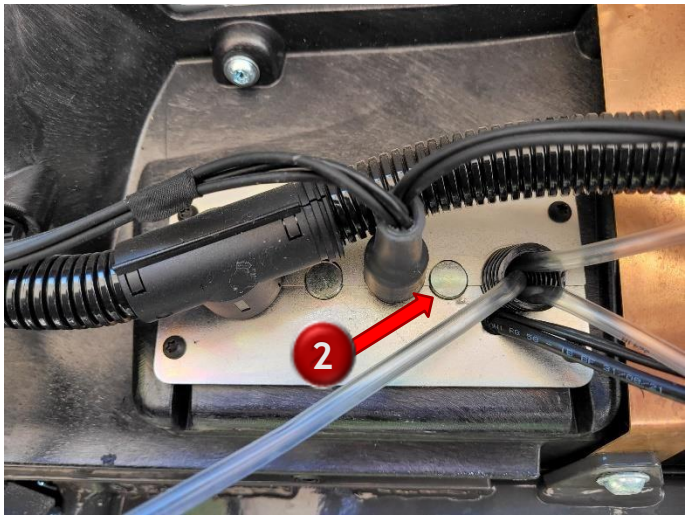
Ensure the grey 12-pin plug of the JD-12 Adapter is connected to the Machine Adapter.



Then route the harness by pushing the receiver connector of the JD-12 (grey 12-pin) upward through the gap near the ceiling (arrow).

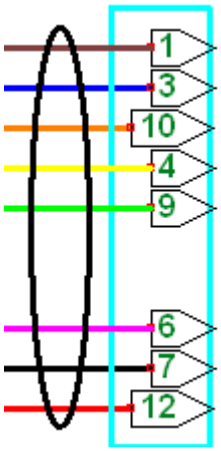


From the outside, remove the penetration panel. The plug indicated will be removed for the receiver cable.



Push a thin stick (roughly 4 feet long) from the outside into the cab. Tape the receiver connector to the stick and pull through to the outside.

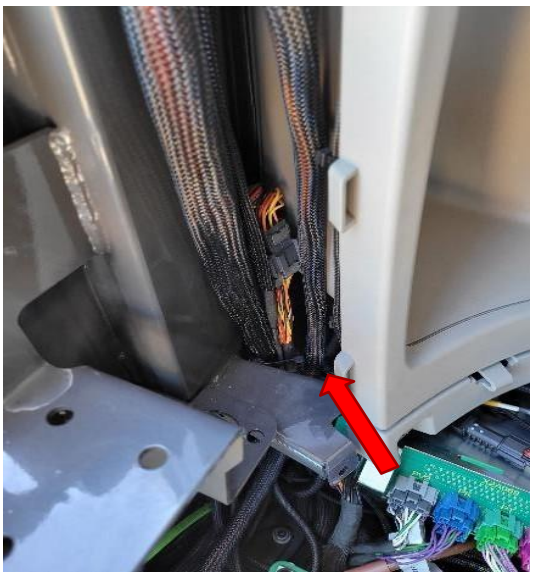
If you have issues pulling the connector through, you can de-pin the receiver connectors (and re-pin them once they are routed to the roof). Be especially careful not to damage the internal plastic pin-latching tabs on the mini-Deutsch connectors.



Starfire Connector

Re-install the penetration plate, the plastic eyebrow panels (in the reverse order of removal, and connect the StarFire. Tie the cable to the hand-hold so it doesn't dangle when disconnected later.

Inside the cab, continue the routing by pulling the cable down into the fuse box area. →

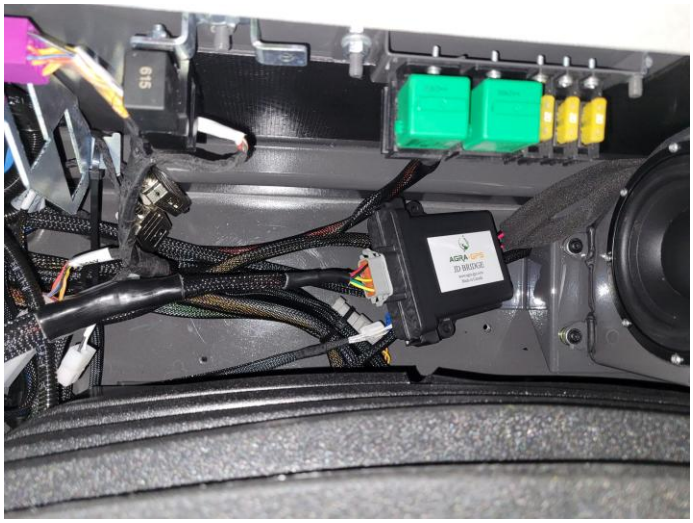


The monitor cable requires routing up to the monitor mount. Route through one of the relief holes at the bottom front of the window. It is possible (barely) to force the monitor plug through the hole without damage.

Route the cable up and underneath the rubber weatherstripping to the monitor mount.

Step 4: Installing the Machine Adapter

Remove the plastic floor panel behind the operator seat. Mount the Bridge below. Connect the mini 12-pin of the Machine Harness to the bridge.



Locate the X485 connector below the operator seat (right hand side). It will be attached to termination resistor
labelled as XR014.3 (connected through plug X48T). Remove this from the X485 connector, and connect it to the 6-pin adapter of the Machine Harness.

The ISO CANbus connection is made using the 9-pin ISO in-cab round connector located at the top of the corner post. Route this connector cable back up the vertical post, while keeping the two 4-pin connectors accessible in the fuse box. Leave about 16” of extra harness length available at the top. Once installation is complete, the result should be similar to the following:

Note: If you do not require the ISO CAN connection, disconnect the 4 pin connectors of the ISO plug on the machine harness and connect the 2 provided terminators to the Machine Harness.

The 3-pin Topcon connection can be found within the fuse panel. Complete the connection to finish the Machine adapter installation.

Step 5: Mounting the Display

Connect the display as shown once mounting is complete (back side of 4640 shown).

The JD display may be mounted in many ways. You may use the standard JD mounts or a RAM mount. A display mount is not provided in the bridge kit and must be purchased separately. They can be purchased directly from Agra-GPS.

For example: 8" double socket arm (RAM-D-201U) + 2.25" ball with square plate (RAM-D-2461U) + 2.25" ball with round plate (RAM-D-254-WD1U)

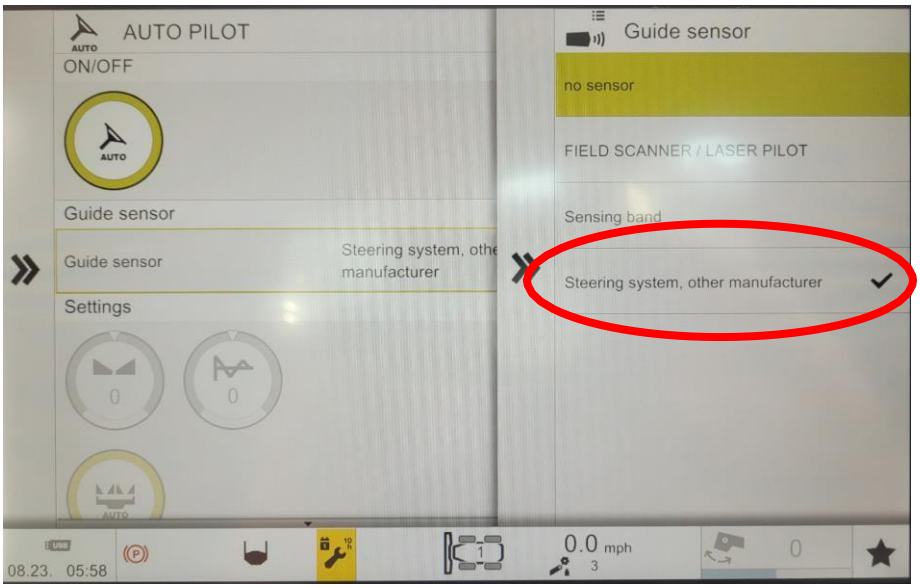
https://rammount.com/collections/popular-components-d-size/products/ram-d-201u-c

Step 5: Once the bridge kit is installed, move on to the Bridge User Manual for instructions on how to access the ISO app

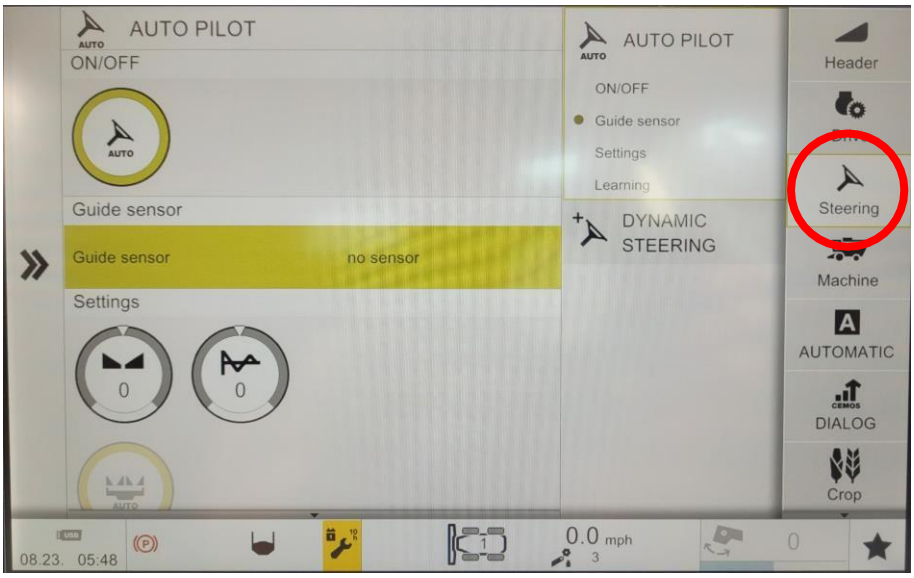
NOTE: If you do not have the Bridge User Manual it can be found at https://www.agragps.com/bridge-user-manual-english/

Step 6: CEBIS Setup

- In the CEBIS you must set the steering input source. Select the "Steering" from the right side menu, and ensure auto on/off is set to ON. Then select the "Guide sensor" item.



- Select "Steering system, other manufacturer" from the list



- A good test to verify complete communication with both the Claas and John Deere systems is to change header size on the CEBIS monitor. It should take only a few seconds until the header size is changed on the JD monitor.

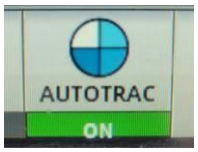
- It should take only a few seconds until the header size is changed on the JD side.

Step 7: AutoSteer Operation

Refer to the AutoTrac Pie indicator on the JD monitor screen. With the Bridge attached, you should see at least 1 quarter of the Pie displayed if everything is normal (Installed).

Press the AutoSteer Enable button on the armrest to obtain 2 quarters (Configured).

If the Pie has not already moved to 3 quarters (Enabled), the press the Pie on screen.



Press the Engage (also known as Resume) button to activate Auto-Steering (4 quarters). It will engage if all other conditions are met, such as minimum speed and threshing activated. You can press the Engage button again to disengage, or simply turn the steering wheel. Forcing the steering wheel will automatically disengage auto-steering.