

INSTALLATION MANUAL

Agra-GPS Versatile-JD Bridge (row crop tractor)



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Release Notice

This is the June 2026 release of the Versatile-JD-ROW Bridge Installation Manual.

Disclaimer

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

Important Safety Information

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

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

The operator used 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 Versatile-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 Versatile 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 Versatile-JD Bridge.

What's In The Box

The VERS-JD-ROW kit consists of the following items:

- A. VERS-JD-ROW Bridge
- B. VERS-JD-ROW Machine Adapter
(SKU: VERSJDROWMABS2)
- C. VERS-JD-ROW Outside Adapter
(SKU: VERSJDROWOUT)
- D. VERS-JD-ROW Inside Adapter
(SKU: VERSJDROWIN)
- E. JD-12 Adapter
(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

Installation of the Versatile JD Bridge

Step 1: Installing the Outside Adapter

Locate the existing Sauer Danfoss valve, the wheel angle sensor plug and the transducer plug.

The valve is behind the right back wheel towards the front of the cab.



The wheel angle sensor is behind the front axle on the right side of the tractor.

Carefully run the wheel sensor cable along the side and under cab.

The valve and transducer are located under the cab. It can be reached from the right side in front of the rear wheels.

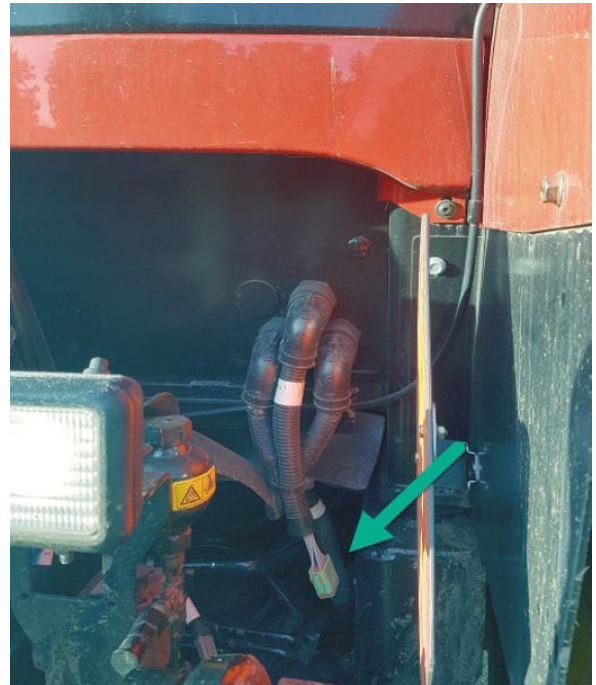


The valve has a 4-pin deutsch connector (1). The transducer has a 3-pin deutsch (2) pointing up.



After you connected the wheel angle sensor, the valve and the transducer, find the green 12-pin deutsch connector at the back of the tractor. It is a pass-through connector. You will find the other end inside the cab underneath the big cover behind the seat.

Connect the 12-pin end of the outside harness to this 12-pin green deutsch connector.



Step 2: Installing the Inside Adapter

Find the green 12-pin deutsch connector inside the cab. It is located behind the seat under the plastic cover. Check in the very right rear corner of the cab.

Connect the green 12-pin adapter of the Inside Adapter here.

The other end of the Inside Adapter will be connected to the Bridge.

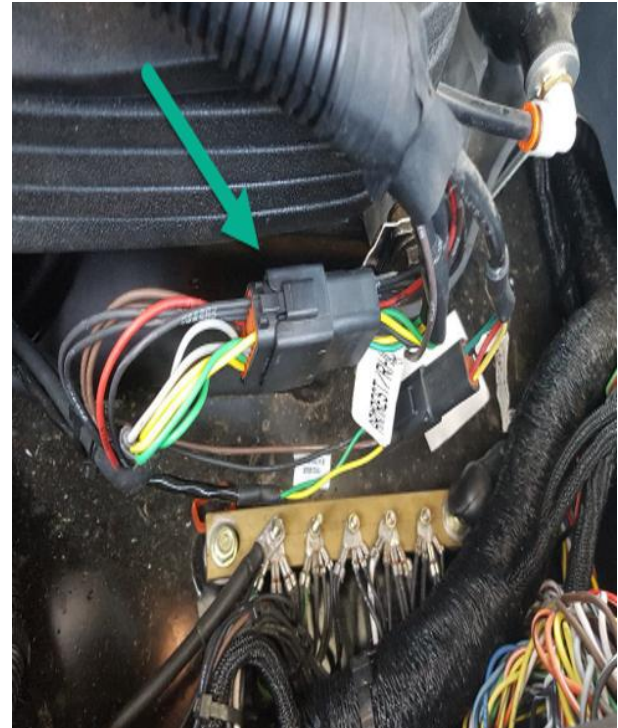


Step 3: Installing the Machine Adapter

The first connection for the Machine Adapter needs to be made within the armrest.

Open the armrest and located the black 12-pin connection.

Open the connection and plug in both sides of the black 12-pin connectors of the Machine Adapter.



The Machine Adapter also includes 2 4-pin Deutsch connectors with terminator caps preconnected. These connectors can be left as is however if you require the ISO connection this will have to be installed.

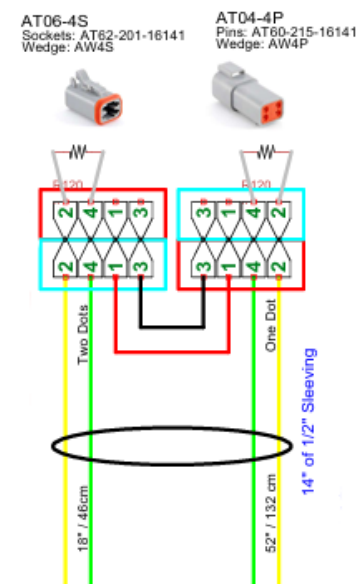
If you have the factory installed ISO plug, remove the terminators from the 4-pin connectors of the Machine Harness. Then find the ISO connection which should be located behind the seat. Open the connection and install the 4-pins of the Machine Harness in-between.

Note: It is recommended to keep the terminator caps in case they are required for future troubleshooting.

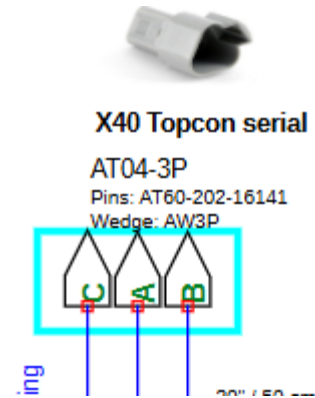
If you do not have factory installed ISO however you require ISO you will need to acquire a John Deere ISO extension harness (part# RE174726 or #RE174725 depending on if you are installing on an Articulated or RowCrop). Then remove one of the terminator caps and plug the 4-pin of the Machine Harness into the John Deere ISO extension.

Note: You will need to supply power from the Tractor to the 4-pin you connected. That power ensures that the John Deere ISO Extension Harness properly terminates the ISOBUS.

Note: This power is separate from that of the convenience port which is not used for ISOBUS termination.



The 3-pin Deutsch connector is also optional, this connection is only required if you are installing a Topcon display or another third-party monitor that requires serial nmea output. If you do not require this connection this step can be ignored. If you do require the connection the 3-pin plug of the Machine Harness will plug directly into the display.



Once those connections are made, take the grey 12-pin mini of the machine adapter and connect it to the bridge.

At this point both connections to the bridge should be made, after this find a secure place within the cab and mount the bridge.



Finally, The 12-pin male Deutsch connector should be plugged into the 12-pin female Deutsch connector of the JD-12.



Step 4: Mounting the JD Display

The mounts for the JD display are NOT part of the Versatile-JD Bridge, however they can either be ordered as an optional item from Agra-GPS or directly from RAM.

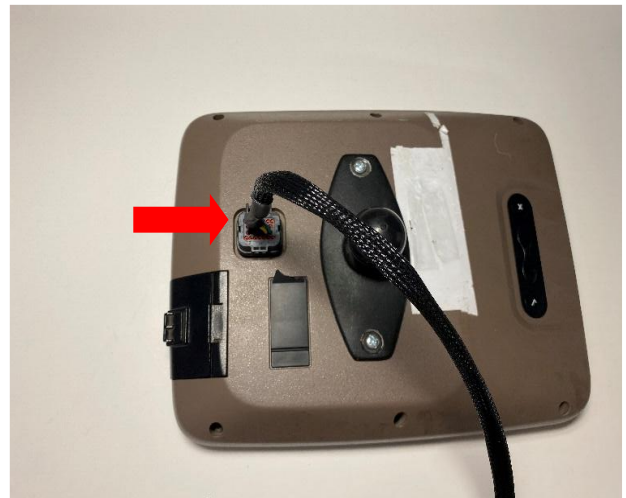
The JD-display may be mounted many different ways.

You may use the standard JD mounts or a RAM mount. RAM-270U + 2 * 1.5" balls (RAM-202U) + 4" double socket arm (RAM-201U). It fits JD displays 2600 and 2630.

<http://www.rammount.com/part/RAM-270U>

Once the JD display is mounted route the display cable (black connector) of the JD-12 to the display and connect it.

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



Route the final 12-pin adapter of the JD-12 to the roof and connect it to the receiver to complete the installation.

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/>

Versatile-JD Bridge Autosteer Engage/Disengage

Your Versatile tractor has a RESUME button (1) in the armrest. It activates the autosteer.

Note: Autosteer can only be activated when the hydraulic is enabled (2)!

Also your John Deere display must be in „Steer ON“ mode.

If you have your signal lights ON, autosteer does not work as it is assumed you are on the road.

Autosteer must only be used in the field!

The Versatile-JD Bridge also supports several recording sources on the John Deere display.

When selected in the equipment menu these recording options trigger coverage on and off.

