

INSTALLATION MANUAL



Agra-GPS Massey-JD Bridge for Massey 7xxx/8xxx and Challenger MT5xx/MT6xx tractors

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Release Notice

This is the February 2017 release (Revision A) of the Massey-JD Bridge Installation Manual.

Disclaimer

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

Important Safety Information

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

- Be alert and away of surroundings.
- Do not operate the Massey-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 Massey-JD Bridge system is engaged.
- Determine and remain a safe working distance from other individuals. The operator is responsible for disabling the Massey-JD Bridge system when the safe working distance has been diminished.
- Ensure the Massey-JD Bridge is disabled prior to starting any maintenance work on the machine or parts of the Massey-JD Bridge system.
- Follow all safety instructions from the Massey system as well as the JD system!
- The Massey-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 Massey-JD Bridge. The Massey-JD Bridge is designed to bridge the communication between a Massey tractor (Autoguide ready) and a John Deere display (2600 or 2630). 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 receiver and all this information is used by the Massey-JD Bridge to create steering instructions for the Massey tractor. All conditions for autosteer such as minimum speed, steering enabled etc. Must be met by the Massey system before the autosteer engage option in the tractor can be activated.

NOTICE

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

Step 1: Mounting the Massey-JD Bridge Massey 7xxx or MT 5xx

The Massey-JD Bridge is installed right of the driver seat.

Removing the plastic cover, you will find the fuse panel

To the left of the fuse panel, there is sufficient space to place the Massey-JD Bridge. It is also close to the connection point.



The connector is behind the panel shown in the picture.



Plastic cover removed.



The green connector must be opened and the Bridge adapter cable connected.



From the adapter cable (right picture), connect the green female connector with the green and yellow cables to the now open connector X282 in the Massey. The cable connector going to the roof remains open!

There is also a gray connector X593 in the same size. The Massey connector is basically a pass through connector for this gray connector, however uses the power lines to provide power to the Bridge and the JD components.



Step 1: Mounting the Massey-JD Bridge Massey 8xxx or MT 6xx

In the 8xxx the connector is located in the back rear pillar. Remove the 4 screws and move the cover forward.



The connector is marked X282. Open the connector and use the adapter provided with the Bridge. The other side of the connector goes to the roof components which are not needed when working with the JD GPS, so this side of the connector remains open.

The connector does not carry constant 12V power, so you need to find another 12V power source.



The adapter connects the JD-Bridge with the X282 connector. The red wire must be connected to a 12V constant (battery) power source. A 3 amp fuse is sufficient.



Step 2: Resume switch

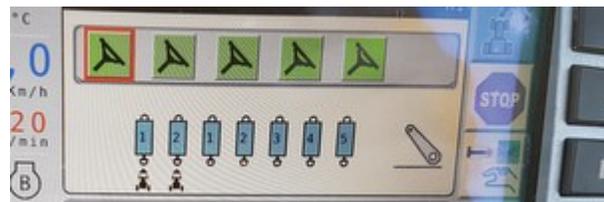
The Massey does not have a build-in dedicated resume switch, however it can be programmed.

Here the H4 button from the joystick was programmed to be our autosteer resume button.

On units without the joystick, the autosteer can be programmed using the headland button. Go to the DOT matrix and change what the headland button does so it will engage the auto steer when the headland button is pushed. OR set up a headland that has a auto-steer activation in the sequence.



The picture to the right shows the resume programmed in the headland actions.



Step 3: Mounting the JD Receiver

The Massey-JD Bridge does NOT include a standard JD-receiver bracket

You want to create a mount which is centered left-right. Install towards the front of the cab.



ISO Application

The Fendt 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 Fendt app includes:

- Calibration
- Option to change work recording mode
- Option to change the machine type
- JD Direction switch
- Help page

Where to find the Fendt 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.

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 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 full restart of the machine. Remember the app may take a few minutes to load.