

# INSTALLATION MANUAL

## Agra-GPS Horsch-JD Bridge for the Horsch Leeb PT280 sprayer



Version 1.0  
Revision A  
March 2018



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#### Release Notice

This is the March 2018 release (Revision A) of the Horsch-JD Bridge for Horsch Leeb PT280 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 Horsch-JD Bridge IF YOU DISAGREE WITH THE DISCLAIMER.**

## Important Safety Information

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

- Be alert and away of surroundings.
- Do not operate the Horsch-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 Horsch-JD Bridge system is engaged.
- Determine and remain a safe working distance from other individuals. The operator is responsible for disabling the Horsch-JD Bridge system when a safe working distance has been diminished.
- Ensure the Horsch-JD Bridge is disabled prior to starting any maintenance work on the machine or parts of the Horsch-JD Bridge system.
- Follow all safety instructions from the AGCO system as well as the JD system!
- The Horsch-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 Horsch-JD Bridge. The Horsch-JD Bridge is designed to bridge the communication between a Horsch Leeb PT280 sprayer (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 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 Horsch-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 Horsch system before the autosteer engage option in the tractor can be activated.

### **NOTICE**

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

## **Installation of the Horsch-JD Bridge**

### **Step 1: Mounting the Horsch-JD Bridge**

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

The plastic cover with the buttons can be lifted up. You also want to open the side panel, accessible when the side door is opened.



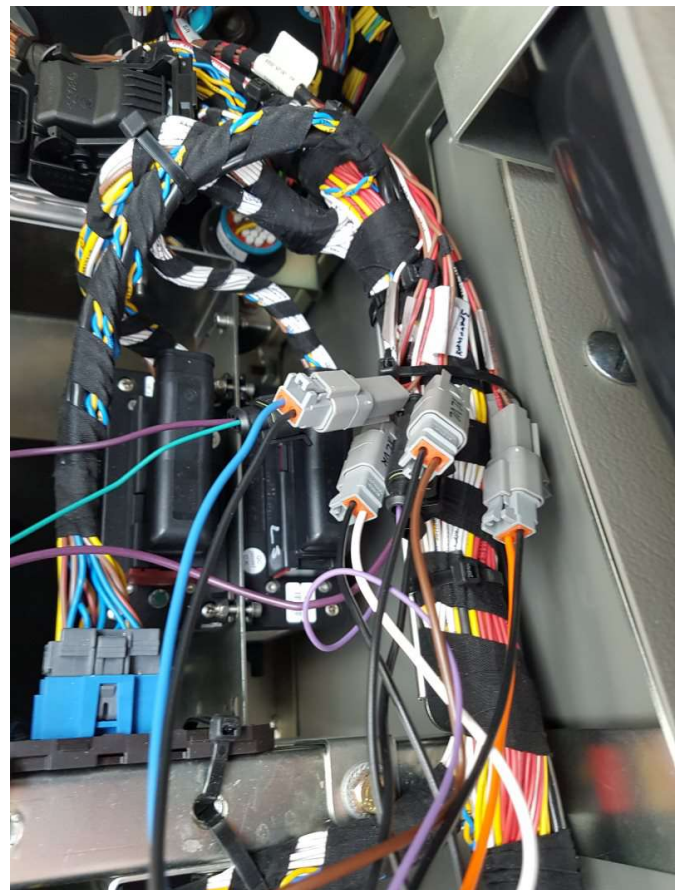
Access through side panel.



You will find 6 connectors. 4 of which are 2-pin deutsch, the other 2 are the black 3pin connectors. In the picture they are already connected to the Horsch-JD bridge adaptor cable.

The connectors are marked on the Horsch side and on the Bridge side. Simply match them. The black 3-pin are not marked, however only one has 3 cables, so again match the 3 cable 3pin with the 3-cable 3pin in the sprayer.

Power is connected to a 3 pin white connector located towards the side panel, viewable only from the top.





## RESUME BUTTON

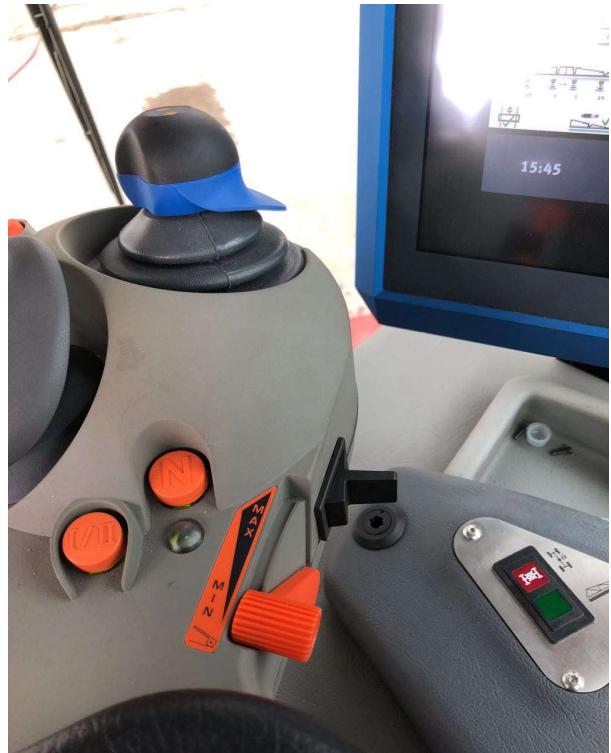
The blue loose wire from the Bridge adaptor is the resume wire. It must be connected to a momentary switch to ground.

For testing purpose you may simply touch the wire to a frame ground.

The switch shown in the photo is NOT supplied!

You may also choose a different location or switch.

Connect the blue wire to a momentary open switch, connect the other part of the switch to ground, creating a short to ground whenever the switch is activated.





The Horsch-JD bridge may be installed in the slide just before the side access panel.

Remove the 2 \* 13 mm bolts and slide the panel out.



Bolt the Agra-GPS Horsch-JD Bridge with the cabling towards the bottom on the panel and slide it back in.



## Step 2: Mounting the JD Display

The mounts for the JD display are NOT part of the Horsch-JD Bridge, however they can either be ordered as an optional item from AgraGPS 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)

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

Here the 2630 was mounted above a Mueller ISO terminal.



## Step 3: Mounting the JD Receiver

The Horsch-JD Bridge does NOT include a standard JD-receiver bracket, however the sprayer has a mount point right behind the cab.



## Step 4: Adjusting steering

Using the JD display you may adjust your steering performance. Most machines will perform optimally with all JD settings at 100. If a change is required, find an open area where you can travel at target speed and adjust one parameter at a time until you are satisfied with the steering performance.

