

JOZ J-Link Access Point Installation Guide

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Specifications

Product: J-LinkVersion: V1.1 EngAuthor: RoP MWrite

• Date: 6/26/2017

Product Information

The J-Link is a versatile product developed by JOZ b.v. for use in manure disposal systems and feed pushing robots. It aims to create a clean environment in barns through the use of autonomous/self-driving technology.

Product Usage Instructions

Installation

Follow the installation manual provided with the J-Link for proper installation. Ensure all connections are secure and the device is placed in an optimal location within the barn.

Safety Precautions

Before operating the J-Link, familiarize yourself with the safety precautions outlined in the manual. Ensure proper handling to prevent accidents or damage.

Troubleshooting

If you encounter any issues with the J-Link, refer to the troubleshooting section of the manual. Follow the steps provided to identify and resolve common problems.

Maintenance and Repairs

Regular maintenance is essential to keep the J-Link functioning optimally. Follow the maintenance guidelines provided to ensure longevity and performance.

Storage and Transportation

When not in use, store the J-Link in a safe and dry place to prevent damage. If transportation is required, follow the guidelines for safe handling and packaging.

End of Service Life

When the J-Link reaches its end of service life, follow the recommended disposal procedures to minimize environmental impact. Contact the manufacturer for guidance on proper disposal.

FAQ

Q: How do I update the software on the J-Link?

 A: To update the software, download the latest version from the manufacturer's website and follow the instructions provided in the software update guide.

• Q: Can the J-Link be used in different types of barns?

 A: Yes, the J-Link is designed to be compatible with various barn setups. However, ensure proper installation and configuration for optimal performance.

Foreword

- As the founder of modern barn cleaning, JOZ b.v. is the specialist in manure disposal systems and feed
 pushing robots. JOZ b.v. has been developing and manufacturing different types of manure disposal systems
 since 1948.
- JOZ b.v. aims to achieve an extremely clean environment in the barn through the use of mobile robots.
- For this purpose, JOZ b.v. has developed a number of autonomous/self-driving products, such as the JOZ-Tech manure robot and the MOOV robotic feed pusher.
- At JOZ b.v. our aim is for our solutions and services to boost the efficiency of the farmer and to increase livestock yields. We do this by improving hygiene in the barn, which serves to benefit the health of the animals.
- To support you, JOZ b.v. has developed a range of manuals, such as user manuals, installation manuals and parts manuals. If you are uncertain about any of the content or require additional information, please feel free to contact your local dealer or JOZ b.v.
- Tip: The relevant manuals are also available through the dealer section at www.joz.nl
- We hope you will enjoy using them!

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- All descriptions, drawings, illustrations and specifications included in this manual apply to the device at the time
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Introduction

Purpose of the document

This document has been written to inform a qualified installation technician or service engineer about the functionalities of the J-Link. The document describes the settings that can be configured on the J-Link when the J-Touch is connected to it.

This document is intended to supplement the installation manual for the systems that use the J-Link. The functionalities as set out in this document are optional and do not affect the operation of the systems as they are delivered.

Intended use

The J-Link is intended to store and if necessary transmit robot data when connected to JMS over the internet. Each system requires at least one J-Link to be operational.

Symbols used

The following symbols are used in this manual:



Symbol for: Please note!



Symbol for: Caution!



Symbol for: Voltage > 50 VAC or 70 VDC.

Safety

Always follow the safety instructions:

- Unauthorized persons may only access the operational area of the slurry scraper or feed pushing robot under supervision!
- Always keep at least 50 cm around the robot clear. Take extreme care not to become trapped!
- Keep children and unauthorized persons away from the charging station!
- Place a barrier or fence around the charging station so the cattle cannot get near it!

When carrying out work, switch off the power:

- 1. Turn the main switch OFF.
- 2. Remove the plug from the power socket.

Safety precautions

Make sure the area is safe:

1. Hang up warning signs (Figure 2-1) at the entrance to the barn.



Figure 2-1 Warning sign

In the event of a collision between the robot and an obstruction, the robot will stop by means of the built-in collision safety device (see the user manual relating to the specific robot).

FCC required user manual statements

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Warnings

This portable transmitter with its antenna complies with FCC/IC RF exposure limits for general population / uncontrolled exposure.

Section 8.4 of RSS-GEN

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference, and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Technical specifications

J-Link

- Type J-Link
- Dimensions 38x24x8 cm
- · Weight 3 kg
- Power supply 230 VAC 50 Hz
- · Connectivity Ethernet
- Manufacturer JOZ b.v. Industrieweg 5 1617 KK Westwoud The Netherlands

J-Touch

- Type J-Touch
- Dimensions 25x17x4 cm
- · Weight 0.34 kg
- Power supply 230 VAC 50 Hz
- · Connectivity Wired
- Manufacturer JOZ b.v. Industrieweg 5 1617 KK Westwoud The Netherlands

Summary

Composition Legend for Figure 4-1:

- 1. USB connection
- 2. J-Link
- 3. Data cable
- 4. J-Touch

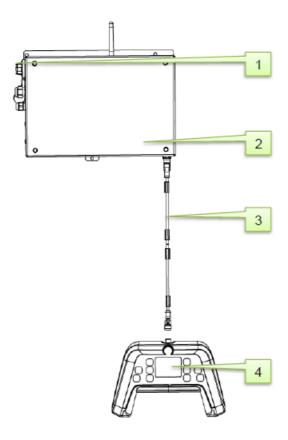


Figure 4-1 J-Link summary

Location

The J-Link is fitted above the battery charger at the rear of the J-Load/charging station.

Legend for Figure 4-2:

- 1. J-Link
- 2. Battery charger (see robot manual)

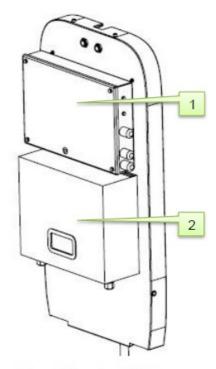


Figure 4-2 Location of J-Link

J-Touch controller

The J-Touch is not supplied with the J-Link. The J-Touch is a part of the robot and can be used on J-Link.

Legend for Figure 4-3:

- 1. Home: back to the starting menu
- 2. ▼ Reverse navigation button
- 3. ▼ Forwards navigation button
- 4. Selection button
- 5. Selection button
- 6. Touchscreen
- 7. Robot On / Off button
- 8. Selection button
- 9. Selection button
- 10. ▲ Turn left navigation button
- 11. ▲ Turn right navigation button
- 12. Back: go to previous screen

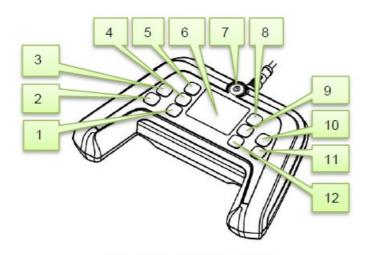


Figure 4-3 J-Touch controller

Type plate

The type plate (Figure 4-4) is mounted to the left of the antenna on the top of the J-Link.



Figure 4-4 Type plate

Serial number and Token

The serial number plate (Figure 4-5) is mounted in the upper right corner on the front of the J-Link.

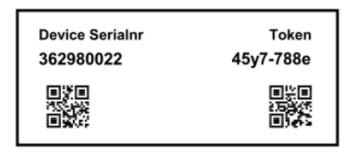


Figure 4-5 Serial number and Token

General description

J-Link (access point)

- The J-Link (Figure 5-1) serves as robot data storage.
- The J-Link communicates wirelessly with the robot(s) via a ZigBee connection.

It allows:

- Data to be exchanged.
- · Data to be displayed.

The J-Link stores data for 30 days, after which the old data is overwritten.

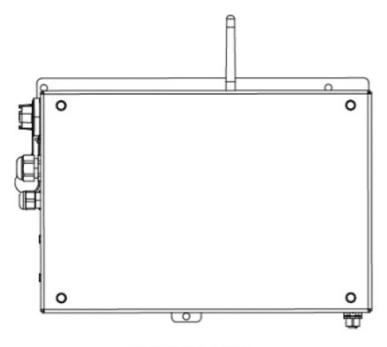


Figure 5-1 J-Link

JMS

- The J-Link must be connected to the internet for it to be able to communicate with the JMS (JOZ Management System).
- Every ten minutes, the data is sent to the JMS database in bundles of 1000 lines.
- The serial number and token (see §4.5) are also used for the purpose of identification and security.

J-Touch controller

- The J-Link will work without the J-Touch. The J-Touch is part of the robot and only functions as a display and hand controller.
- The J-Touch (Figure 5-2) is used to change the settings on the J-Link.
- The J-Touch must be connected to the J-Link by a data cable.



Figure 5-2 J-Touch

USB connection

Stored data can be copied to the USB stick using the USB socket on the side of the J-Link (Figure 5-3).

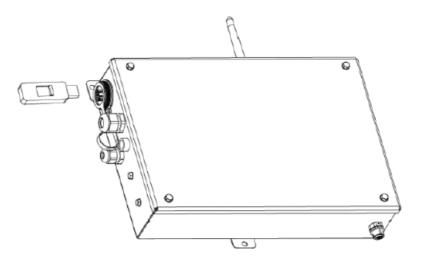


Figure 5-3 USB connection

Controls

- Unauthorized persons may only access the operational area of the slurry scraper or feed pushing robot under supervision!
- Always keep at least 50 cm around the robot clear. Take extreme care not to become trapped!
- Keep children and unauthorized persons away from the charging station!
- Place a barrier or fence around the charging station so the cattle cannot get near it!
- See the relevant robot manual for specific robot controls.
- The J-Link is programmed by the engineer.
- The J-Touch is not supplied with the J-Link. The J-Touch is a part of the robot and can be used on J-Link.

Follow the steps below to operate the J-Link:

- 1. Connect the J-Touch (Figure 6-1) using the data cable on the J-Link. The touchscreen displays the various menus.
- 2. Press the icon or selection button required.

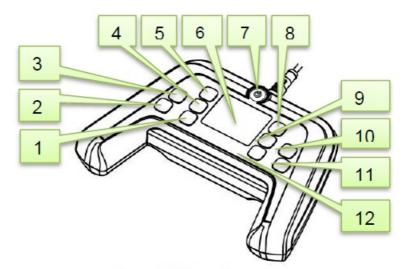


Figure 6-1 J-Touch controller

- Home: back to the starting menu
- 2. ▼ Reverse navigation button
- 3. ▼ Forwards navigation button
- 4. Selection button
- 5. Selection button
- 6. Touchscreen
- 7. Robot On / Off button
- 8. Selection button
- 9. Selection button
- 10. ▲ Turn left navigation button
- 11. ▲ Turn right navigation button
- Back: go to previous screen

Start screen

After connecting the J-Touch to J-Link, you will be directed to the Start screen. The settings on the J-Link are intended for the service engineer.

1. In the Start screen (Figure 6-2) press



2. Enter the code 1955.



Figure 6-2 Start screen

Pairing

The pairing function is optional and is therefore not a standard feature on the robot. If you wish to use this function, the right software will have to be installed in the robot.

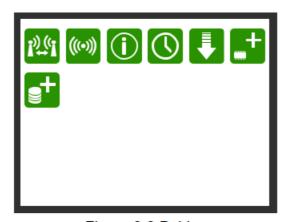


Figure 6-3 Pairing

Use pairing if there are multiple systems in the barn.

- Pairing links a robot to a specific J-Link.
- Pairing always allows data to be sent to the linked J-Link, even if there are other active
 - J- Links in the area.
 - 1. Place a USB stick in the J-Link.
 - 2. In the screen (Figure 6-3) press Pairing information

 You will be directed to the "Pairing information" screen (Figure 6-4).
 - 3. In the screen, press Generate key



Figure 6-4 Pairing information

4. Confirm your choice (Figure 6-5) by pressing



Once approved, a key will be generated allowing the J-Link and the robots to be connected to one another.



Figure 6-5 Confirm selection

5. In the screen (Figure 6-6) press





Figure 6-6 Save key

6. Confirm your choice with



Once approved, the generated key will be written to the USB stick.

https://docs.google.com/spreadsheets/d/158e_9mYrKu8Zv5IvYZHFoeih6pM8Qg10gE4NiHmSW6g

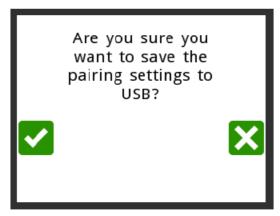


Figure 6-7 Confirm selection

7. Place the key in the robot following the instructions described in the manual for the device concerned.

When the pairing function is active, this can be seen in the Start screen (Figure 6-8).



Figure 6-8 Pairing function active

Connections

The connections screen indicates the status of the connections.

In the screen (Figure 6-9) press Connections

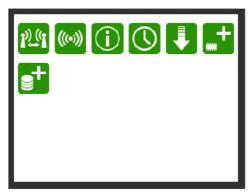


Figure 6-9 Start screen

| Name | Value |
|------------------|-------|
| Modem Accespoint | ОК |
| Modem inst. | ок |
| RF Network. | ОК |
| Local Network | ОК |
| Internet | ОК |
| Backoffice | OK |
| Backonice | O. |
| | |
| | |
| | |

Figure 6-10 Connections

You will be directed to the "Connections" screen (Figure 6-10).

System info

The system info screen shows a list of installed software versions and serial numbers.

In the screen (Figure 6-11) press



System info

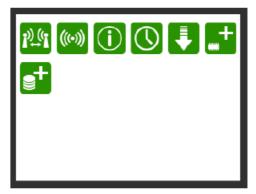


Figure 6-11 Start screen

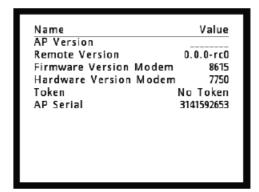


Figure 6-12 System info

You will be directed to the "System info" screen (Figure 6-12).

Date/time

- In the date/time screen you can set the date, time and time zone.
- If the robot is not connected to the internet, these settings will be transmitted to the robot. With this option the automatic adjustment for DST is not active. This will need to be set by hand as and when necessary.
- If the robot is connected to the internet, the date and time will be configured automatically according to the configured time zone. Time zone once have to be set using the PPI tool
- 1. In the screen (Figure 6-13) press



ess System inf



Figure 6-13 Start screen

You will be directed to the "Date/time" screen (Figure 6-14).



2. Select the date/time/time zone and adjust them using

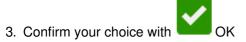




Figure 6-14 Date/time

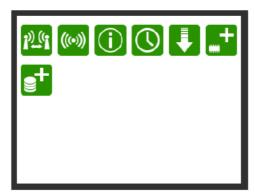


Figure 6-15 Start screen

Updates

In the updates screen you can update the J-Link via the USB.

- 1. In the screen (Figure 6-15) press Updates
 The "Updates" screen (Figure 6-16) shows all the updates installed on the USB.
- 2. Select the required update.
- 3. Confirm your choice with Oh

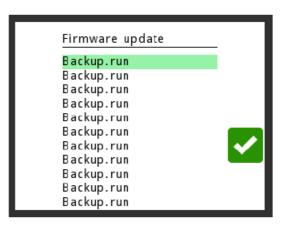


Figure 6-16 Updates

- In the back-up screen you can back up data from the selected machine.
- This data includes the routes and the timetable and can be reinstalled in the robot.
- For restoring the back-up see the installation manual for the relevant machine.
- 1. In the screen (Figure 6-17) press Create back-up
- 2. Select the required machine (Figure 6-18)
- 3. Confirm your choice with OK

"Backup finished" indicates that the back-up was successful.

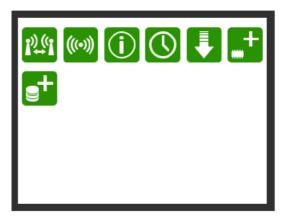
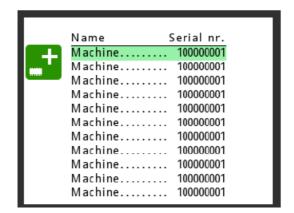


Figure 6-17 Start screen



Delete machine

The delete machine function is only available when the J-Link is connected to the internet.

The delete machine function removes the selected machine and the corresponding data from the J-Link.

In the screen (Figure 6-19) press De

Delete machine

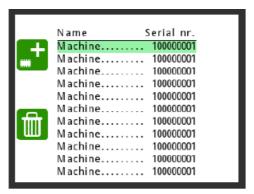


Figure 6-19 Delete machine

Create back-up database

- In the back-up database screen you can back up data on the J-Link.
- This data contains the routes of all machines on the J-Link and can be used to view all of the routes.
- See "Route Viewer User manual" to view the backed-up routes.
- 1. In the screen (Figure 6-20) press Create Back-up database
- 2. "Back-up database finished" indicates that the back-up was successful.

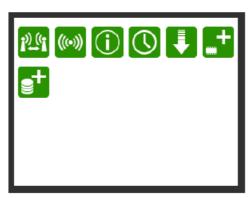


Figure 6-20 Start screen

Troubleshooting

See the maintenance manual for the robot that is being controlled by the J-Link.

Maintenance and repairs

- When carrying out work, switch off the power:
- Remove the plug from the power socket.
- See the maintenance manual for the robot that is being controlled by the J-Link.

Storage and transportation

The following general rules apply for transportation and storage:

- Completely disconnect the J-Link from all power sources for transportation and storage.
- · Always keep the J-Link dry and frost-free.

End of service life

For disposing of the J-Link, there are no specific rules other than current legislation covering electrical appliances.

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- IBAN: NL25 ABN A048 564 2832
- ICC: Hoorn, 36 041 158V.A.T. NL008785351 .BOI

Documents / Resources



JOZ J-Link Access Point [pdf] Installation Guide 2BGQ2-JLINK, 2BGQ2JLINK, J-Link Access Point, J-Link, Access Point, Point

References

- Mean of the clean stable | mest- en voeraanschuifsystemen | JOZ
- * Home of the clean stable | mest- en voeraanschuifsystemen | JOZ
- User Manual

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