

Operator's Manual



Original Instructions

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1 Introduction

1.1 General information

184120-002

1.1.1 Validity of the manual

| Product | Type | Part number (software version) | |
|-------------------|------|-----------------------------------|----|
| | | from | to |
| iPad Kit | — | 00 1393 709 0 | — |
| CWI Setup App | — | 1.0 | — |
| EASY on board App | — | 1.5 | — |

180412-002

1.1.2 Information about this Operator's Manual



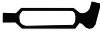

Read through this operator's manual carefully to familiarize yourself with the safe and correct operation and maintenance of the product. This will help to prevent injuries and damage to equipment. If parts of the operator's manual are not understood, contact a CLAAS dealer.

This operator's manual goes with the machine and must be turned over to the purchaser of the product if the product is resold. If lost or damaged, the operator's manual can be ordered from a CLAAS dealer. The operator's manual is also available in other languages.

Directional indications, such as forward, reverse, right and left are to be understood in relation to the direction of travel.

169886-009

1.1.3 Symbols and instructions

| Symbol | Meaning |
|---|---|
|  | Reference to page or documentation with more detailed information |
| * | Optional equipment |
|  | Procedural instruction |
|  | Lubricate the lubrication points with multipurpose grease. |
|  | Lubricate the lubrication points with lubricating oil. |

NOTICE

The note describes how operation is made easier or material damage is prevented.

160551-008

1.1.4 CLAAS dealer

A CLAAS dealer has the required technical knowledge, tools and qualifications for the proper execution of the required work operations, such as:

- Maintenance operations
- Repair operations
- Installations and modifications

The CLAAS dealer documents the performance of work in accordance with CLAAS specifications. This documentation may be the prerequisite for warranty claims.

CLAAS recommends a CLAAS dealer.

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1.1.5 Notes on maintenance

Observance of the prescribed maintenance intervals ensures the best possible performance, reliability and safety of the product.

CLAAS recommends having the maintenance work performed by a CLAAS dealer.

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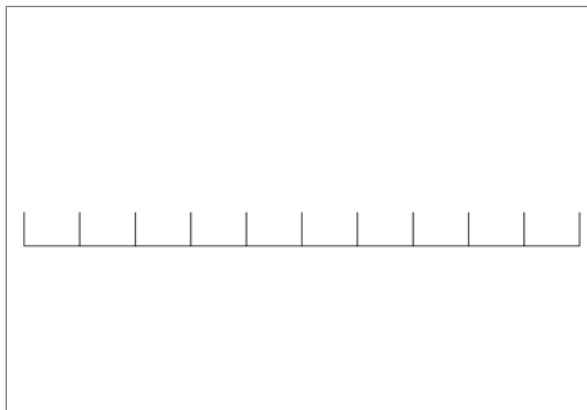
1.1.6 Notes about the warranty

The warranty claims arise from the terms and conditions of sale agreed upon with the CLAAS dealer.

The instructions of this operator's manual must be observed. The failure to observe these instructions may result in loss of warranty claims.

Maintenance work operations that are not described in this operator's manual may only be performed by a CLAAS dealer.

1.1.7 Replacement parts and technical questions



261530-001

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- ▶ Enter the identification number, serial number, part number or software version of the product in the adjacent field.
The number is on the identification plate.
The software version is in the menu.
- ▶ In the case of replacement part orders and technical questions, indicate the respective numbers and software version.

1.2 Intended use

184131-001

1.2.1 Intended use

An Apple iPad 4 or newer with the operating system iOS 8.0 or newer are required for the operation of the EASY on board App.

The EASY on board App is additional equipment / optional equipment and is provided exclusively for attachment to the machines (tractors / self-propelled harvesting machines) approved / released by the manufacturer.

The EASY on board App is suitable and intended to use in fields while operating CLAAS ISOBUS implements, to gather process data and send set values to implements.

The EASY on board App stores the control software transmitted by the CLAAS ISOBUS implement. With this software the implement can be operated using the tablet.

The product may only be used, maintained and repaired by persons who are familiar with the operation of the product and have been instructed about the operational risks when working with the product.

Intended use includes among other things the observance of the indications in the operator's manual, the digital operator's manual for the EASY on board App and the observance of the messages displayed on the tablet.

The pertinent accident prevention regulations and the other generally acknowledged safety technology, occupational health and traffic regulations must be observed by users and owners.

Any other use shall be considered <contrary to the intended use>; the manufacturer shall not be held liable for any damages that results from this improper use. These risks shall be born solely by the user.

You can obtain detailed information regarding intended use for special cases from CLAAS.

184132-001

1.2.2 Reasonably foreseeable improper use

Use falling outside the parameters of intended use comprises any use not intended by the manufacturer and therefore constitutes improper use in the sense of the machine directive. The manufacturer shall not be held liable for any resulting damages. These risks shall be born solely by the user.

Improper uses of the EASY on board App of this type are:

- Performance of adjustments, cleaning and maintenance work contrary to the specifications in the operator's manual.
- Performance of troubleshooting and maintenance work on drives and/or the diesel engine while they are still running.
- Performance of troubleshooting and maintenance work while the power supply is connected.
- Performance of maintenance and repair work by personnel not trained for this.
- Failure to heed warnings that are displayed on the tablet or included in the printed operator's manual or in the digital operator's manual.
- Unauthorized modifications to the product.
- Installation of unapproved/impermissible additional equipment.
- Use of replacement parts that do not comply with CLAAS requirements.

1.3 FCC information

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1.3.1 FCC Compliance statement

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.

Modifications not expressly approved by CLAAS could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2 Safety

2.1 Recognizing warnings

173669-004

2.1.1 Safety alert symbol



This safety alert symbol gives a warning about risk of injury.

- To prevent injuries and death, follow all measures that are labeled with the safety alert symbol.

173668-003

2.1.2 Signal word

The warnings in this operator's manual are introduced with the safety alert symbol and a signal word. The signal word gives expression to the danger.



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

2.2 Safety instructions

180681-003

2.2.1 Significance of the operator's manual

The operator's manual is an important document and a part of the product. It is oriented toward the user and contains safety-relevant information. Only the procedures specified in the operator's manual are safe.

- ▶ Read and observe the chapter on safety before using the product for the first time.
- ▶ Read and observe the respective sections of the operator's manual before working.
- ▶ If contents are not understood or help is needed, notify a CLAAS dealer.

180669-003

2.2.2 Requirements for all people who work with the product

In order to prevent accidents, each person who works with the product must meet the following requirements:

- Be physically able to control the product.
- Be healthy and not suffer from fatigue.
- Not be under the influence of drugs.
- Be able to safely carry out the work described in this manual.
- Understand the way the product works and be able to recognize and avoid the hazards of the work.
- Have understood the operator's manual and be able to implement the information in the manual.
- Be familiar with the safe operation of vehicles.
- For road travel, be familiar with the relevant rules of road traffic and possess the required operator's permit.

191086-001

2.2.3 Design modifications

Design modifications and expansions can impair the functionality and operational reliability of the product. As a result, people can be severely injured or killed.

- ▶ Have design modifications and expansions approved by CLAAS.

180684-003

2.2.4 Optional equipment and replacement parts

Optional equipment and replacement parts that do not conform to the requirements of the manufacturer can impair the operational reliability of the product and cause accidents.

- ▶ Use only CLAAS original parts or parts that conform to the requirements of CLAAS.
- ▶ If you have questions about equipment or replacement parts, contact a CLAAS dealer.

2.2.5 Hazard arising from damage to the tablet

Damage to the tablet can impair the operational reliability and cause accidents. As a result, people can be severely injured or killed. The following parts are especially important for safety:

- Screen

In the event of damage to the tablet or unexpected operating behavior:

- ▶ To stop any operations: turn off tractor ignition or press an EMERGENCY STOP button.
- ▶ Shut down tablet.
- ▶ Determine the cause of the damage or altered operating behavior and correct it.
- ▶ Have damage that can effect safety corrected by a CLAAS dealer.

191072-001

2.2.6 View of work area

Mounting location of the tablet must not obstruct the view of the work area. Diminished view of the work area can cause accidents.

- ▶ Mount the tablet in such a way that the view of the work area is maintained.

184531-001

2.2.7 Glare and reflections

Glare and reflections can impair the operation of the tablet. Incorrect operation can trigger uncontrolled movements of the implements and cause accidents.

- ▶ Mount the tablet so that glare and reflections are avoided.
- ▶ Mount a glare shield on the tablet (anti-glare film).
- ▶ Darken cab.

191071-001

2.2.8 Inadvertent activation of functions

Inadvertent triggering of functions can cause uncontrolled movements of the implements and cause accidents.

- ▶ Brackets and tablets must be attached in such a way that no body parts can inadvertently touch the screen and activate functions.

191073-001

2.2.9 Unauthorized operation

The user bears custodial responsibility for the tablet and the installed applications. Unauthorized operation can cause uncontrolled movements of the implements and cause accidents.

- ▶ Do not put the tablet in children's hands.
- ▶ Do not leave the tablet lying around unattended.

2021-001

- ▶ Protect the tablet from unauthorized access (for example, lock cab).
- ▶ Only share the password with authorized persons.

191080-001

2.2.10 Use of the tablet outside of the cab

Tractor and machine can also be controlled via the tablet from outside the cab as far as the WLAN connection extends. If control functions are triggered using the tablet outside of the cab, the hazard zones cannot adequately be seen and accidents may result. The user can go into the hazard zones with the tablet in hand and thereby endanger himself and other persons.

- ▶ Make sure that the danger zone can be adequately viewed.
- ▶ Make sure that neither the user himself nor other people are in the danger zone.
- ▶ Never leave the WLAN reception range.
- ▶ Never allow children to play with the tablet.

184532-001

2.2.11 Follow safety instructions






Relevant safety instructions are displayed on the tablet that the user must confirm. Failure to observe the safety instructions may result in incorrect or unauthorized operation and cause accidents.

- ▶ Note safety instructions that are displayed on the tablet.

191088-001

2.2.12 Check interaction of self-propelled machines / tractors and implements


The table can be used on various self-propelled machines / tractors with various implements. Tablets, self-propelled machines / tractors and implements can interact with each other. Therefore, check the compatibility and operability of the components with each other before use.

- ▶ In so doing observe documents such as:
 - ▶  Tablet operator's manual
 - ▶  Operator's manuals of the self-propelled machine
 - ▶  Tractor operator's manual
 - ▶  Operator's manuals of the implements
 - ▶  ISOBUS certificate.

170642-002

2.2.13 Hazard during travel on road with ISOBUS implement

The ISOBUS implement must be separated from ISOBUS or remain connected, depending on the particular ISOBUS implement, during travel on public streets and agricultural roads. If there is incorrect use, uncontrolled movements of implements, tractor or machine are triggered and cause accidents.

- ▶  Operator's manual of the implements.

2.2.14 Shutting down the tablet during operation

If the tablet is shut down during operation, all functions of implements, machines or tractors that are controlled by the tablet are canceled. Loss of control over the functions controlled by the tablet can cause uncontrolled movements of implements, machines and tractors and result in accidents.

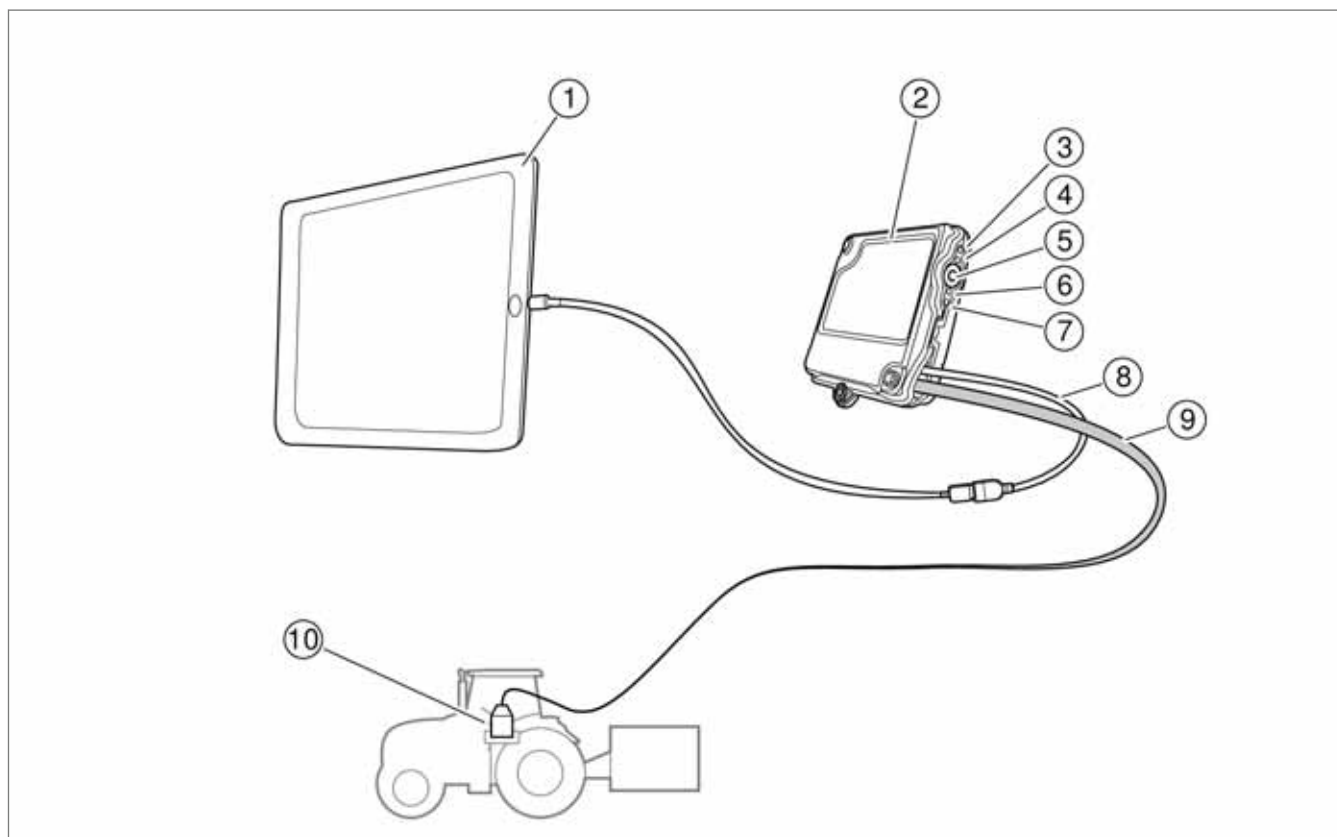
- ▶ Never switch off the tablet while the vehicle is in operation.
- ▶ Always keep EASY on board App active in the foreground.

3 Product description

3.1 Overview and functionality

184139-001

3.1.1 CWI overview

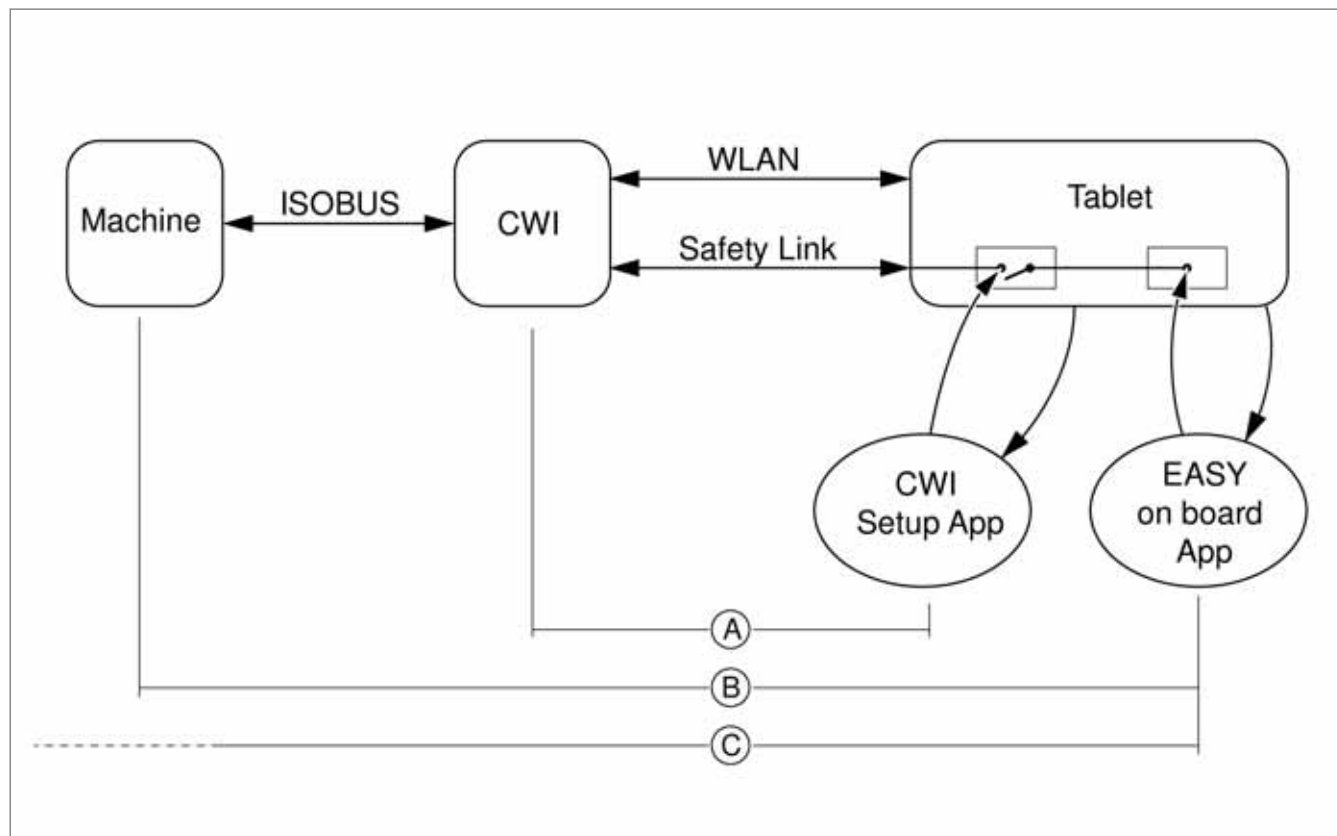


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2

| | Designation |
|----|---------------|
| 1 | Tablet |
| 2 | CWI |
| 3 | LED red |
| 4 | LED green |
| 5 | Key |
| 6 | LED blue |
| 7 | LED orange |
| 8 | Power supply |
| 9 | ISOBUS cable |
| 10 | ISOBUS socket |

3.1.2 CWI mode of functioning



288347-001

3

| | Function | Description |
|---|-----------------------|--|
| A | Initial commissioning | The CWI Setup App establishes a secure data link between CWI and table via WLAN. |
| B | Machine operation | The CWI loads the control program from the job computer of the connected machine via ISOBUS and transmits the screens and status information to the tablet. Inputs on the tablet are transferred to the CWI and from there via ISOBUS to the connected machine. |
| C | Expansions | The EASY on board App displays all installed modules and enables the program start. |

3.2 Identification plates and identification numbers

184141-001

3.2.1 CWI identification plate



288348-001

Identification plate on the CWI.

4



288349-001

5

| | Name |
|---|--|
| 1 | CCN |
| 2 | Serial number |
| 3 | CLAAS part number |
| 4 | Index (Last position of the CLAAS part number) Increase of the index is identified by blacking out the expired numbers, for example, in the case of a software update. |

3.3 Information on the product

189830-001

3.3.1 Factory settings



288348-001

The factory setting for the WLAN name is located on the back side of the CWI (see arrow).

Alternatively, the preset WLAN name is displayed in the tablet in the following situations:

- After connection of the CWI to the ISOBUS socket.
- After resetting to the factory settings [👁 Page 47](#).

6



288350-001

The factory setting for the password is located on the inside of the cover (see arrow).

The preset password reads:

claas-cwi

7

189836-001

3.3.2 Version of software and hardware



289409-001

Software version and hardware version are displayed in the screen <CWI Setup - Legal notice>.

[👁 Page 43](#)

(1) = Software version of the CWI Setup App

(2) = Hardware version of the CWI

8

3.3.3 Seal on the CWI



302224-001

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NOTICE

Loss of warranty claims.

Damaged seal results in loss of warranty claims.

- Do not open the housing of the CWI.

9

4 Operating and display elements

4.1 CLAAS Wireless Interface (CWI)

184142-001

4.1.1 CWI controls



288351-001

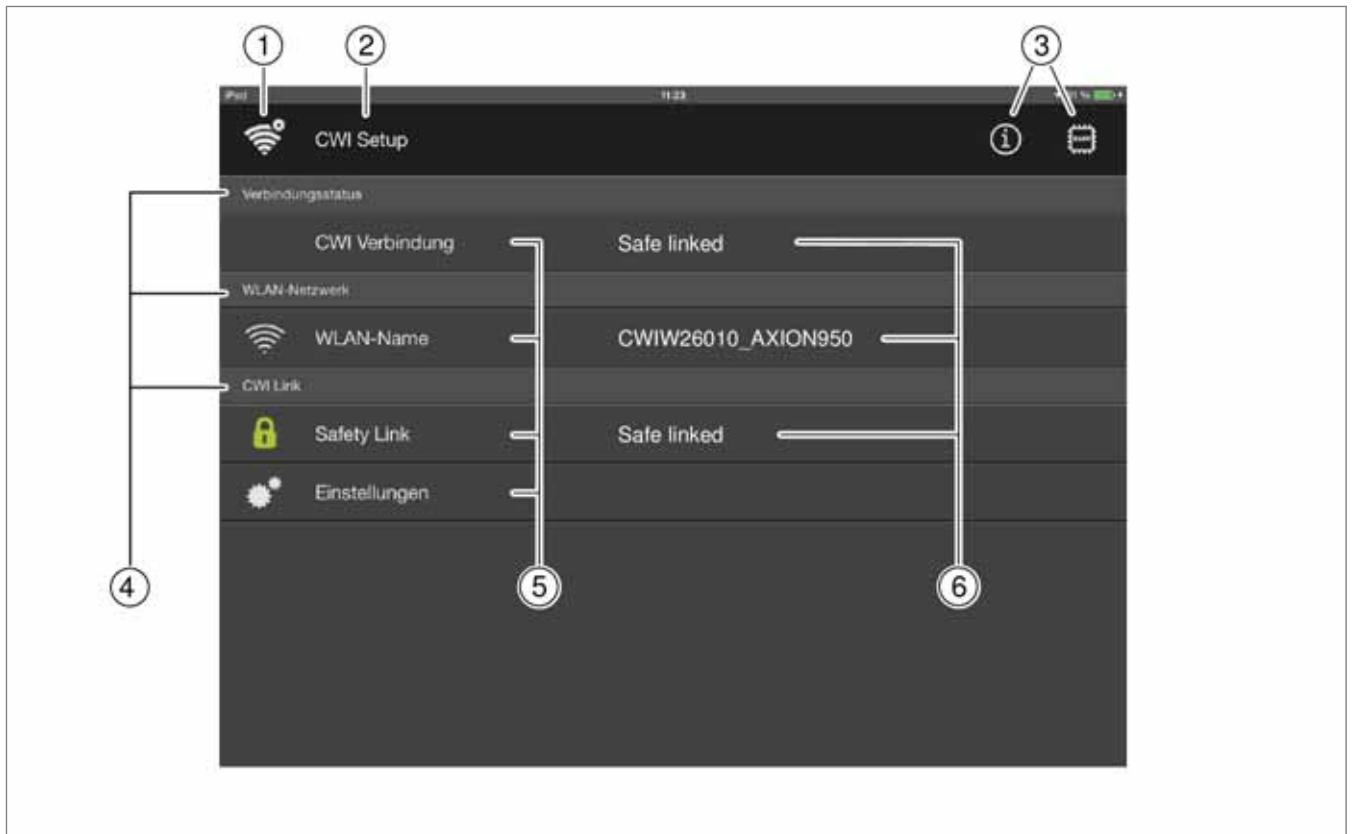
10

| | Designation | Function |
|---|-------------|---|
| 1 | LED red | Flashing = Hardware error, overtemperature. Lights up (10 seconds) = data link interrupted. |
| 2 | LED green | Flashing = Waiting after button is pressed for establishment of the secure data link. Illuminated = Secure data link is active. |
| 3 | Key | Brief press of the button: Identification of the CWI when the secure data link is set up. Long press of the button (15 seconds): Resets the CWI to factory settings. |
| 4 | LED blue | Flashing = Initial commissioning required. Slowly flashing = Time exceeded in initial commissioning. Illuminated = Initial commissioning completed. |
| 5 | LED orange | Not used. |

4.2 CWI Setup App

184143-001

4.2.1 Screen overview










288352-001

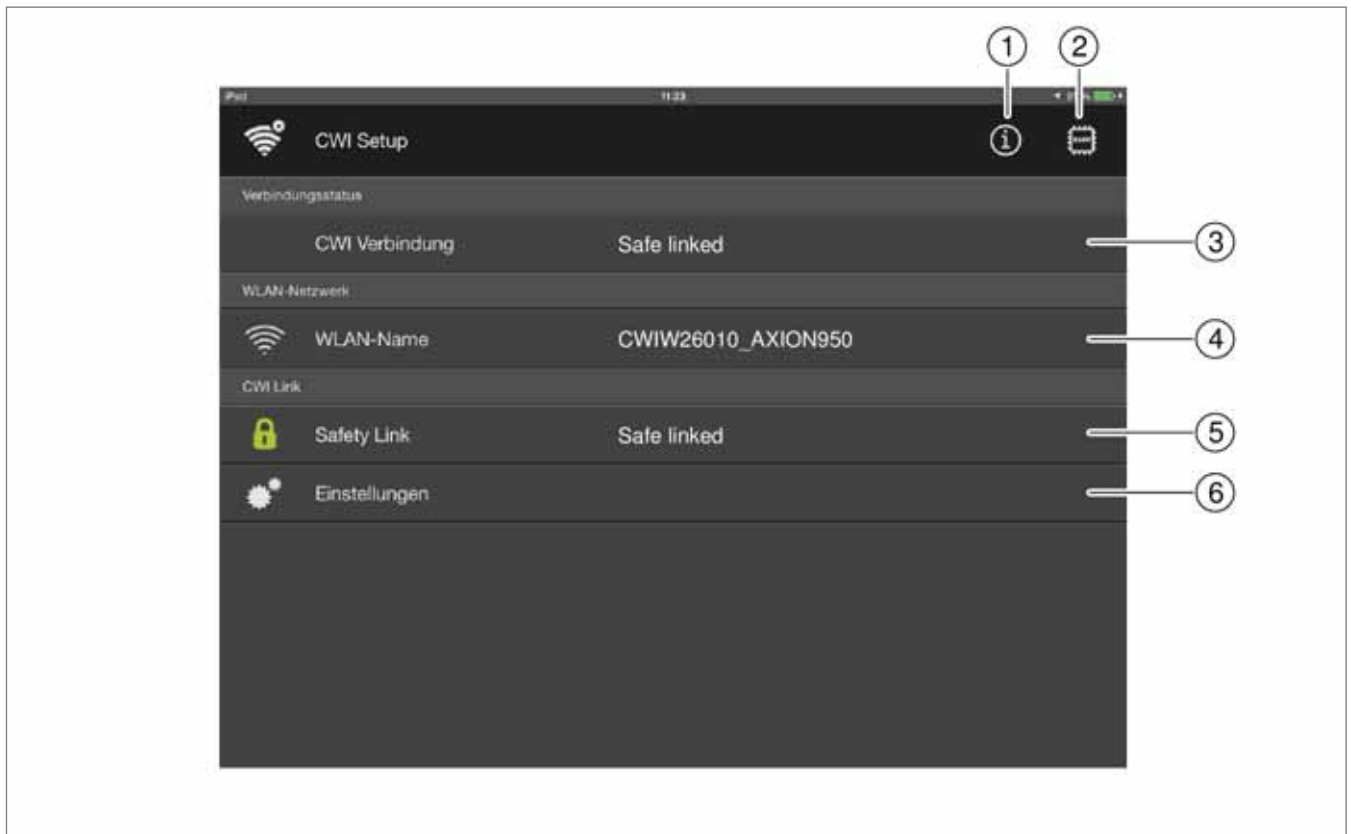
11

| | Designation | Function |
|---|--------------|---|
| 1 | Symbol | Displays the symbol of the CWI Setup App. |
| 2 | Menu name | Shows the names of the current screen. |
| 3 | Button | Executes corresponding actions when tapped. |
| 4 | Heading | Indicates the heading for the following lines. |
| 5 | Menu bar | Indicates data, status information and symbols. When tapped: calls up other screens. |
| 5 | Status field | Displays status information. |

4.2.2 Buttons

| | Designation | Functions |
|--|----------------------------|---|
|  | Button <Information> | Displays the <CWI Setup - Legal notice> screen. |
|  | <EASY on board App> button | Starts the EASY on board App. |
|  | Button <OK> | Saves the entries and displays the previous screen. |
|  | Button <Cancel> | Deletes the entries and displays the previous screen. |
|  | Button <Back> | Displays the previous screen. |
|  | Button <Left arrow> | Cursor one character to the left. |
|  | Button <Right arrow> | Cursor one character to the right. |

4.2.3 Main menu <CWI setup>



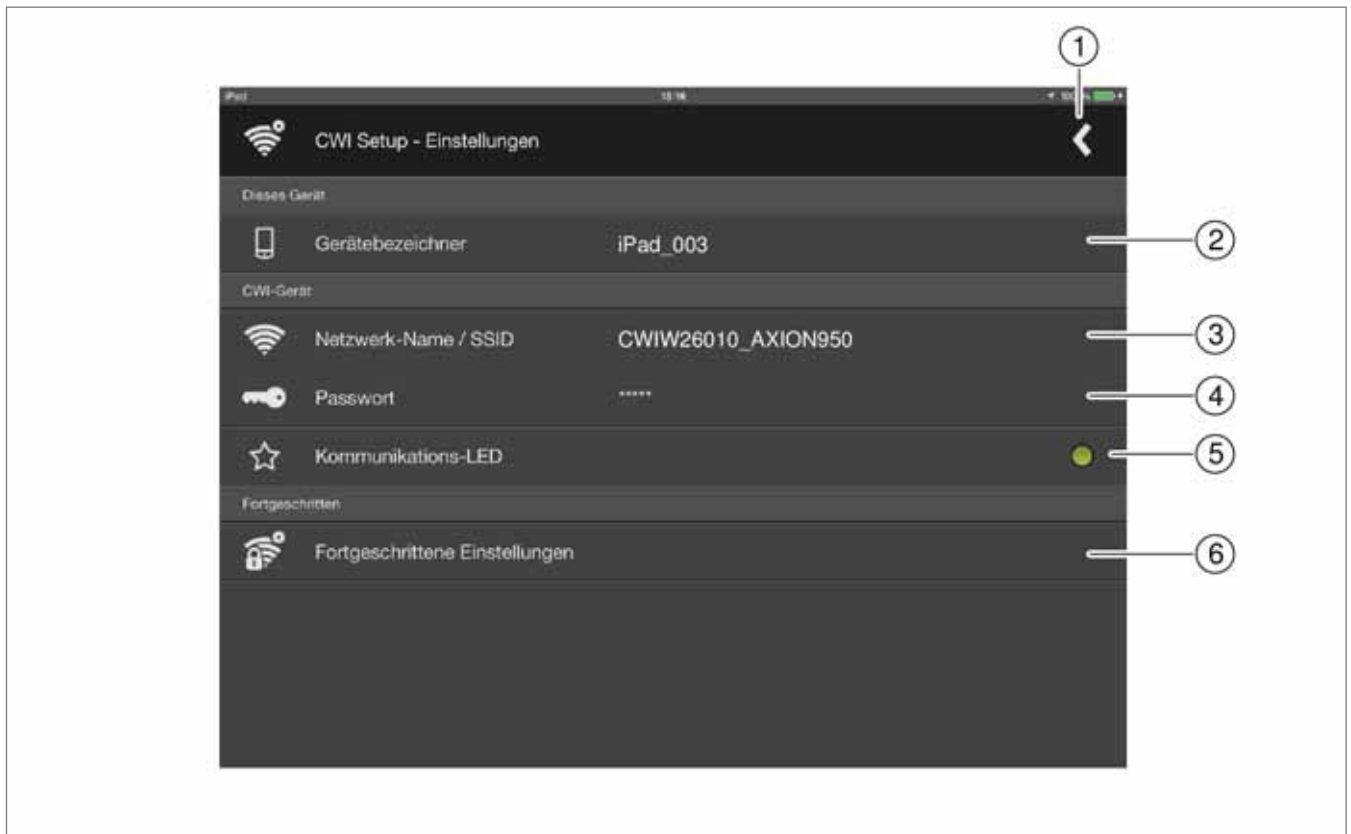
289083-001

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| | Designation | Function |
|---|----------------------------|--|
| 1 | Button <Information> | When tapped: Displays the <CWI Setup - Legal notice> screen. |
| 2 | <EASY on board App> button | When tapped: starts the EASY on board App. |
| 3 | Menu bar <CWI connection> | Displays the status of the CWI connection: <ul style="list-style-type: none"> • <none> = no CWI connection present. • <connected> = CWI connection present, safe data link not present. • <Safe linked> = safe data link present. |
| 4 | Menu bar <WLAN name> | Displays information about the WLAN network: <ul style="list-style-type: none"> • <-> = No WLAN connection present. • Name of the CWI, on which a WLAN connection exists. When tapped: displays further instructions. |

| | Designation | Function |
|---|------------------------|---|
| 5 | Menu bar <Safety link> | <p>Displays the status of the data link:</p> <ul style="list-style-type: none"> • <-> (black) = No CWI connection present. • <-> (white) = CWI connection present, safe data link not present. • <Safe linked> = safe data link present. <p>When tapped: displays further screens.</p> <ul style="list-style-type: none"> • Sequence for changing the factory settings (initial commissioning). • Query dialog for setting up the safe data link. • Query dialog for overwriting the safe data link. • Query dialog for deleting the safe data link. |
| 6 | Menu bar <Settings> | When tapped: displays the <CWI Setup - Settings> menu. |

4.2.4 <CWI Setup - Settings> menu

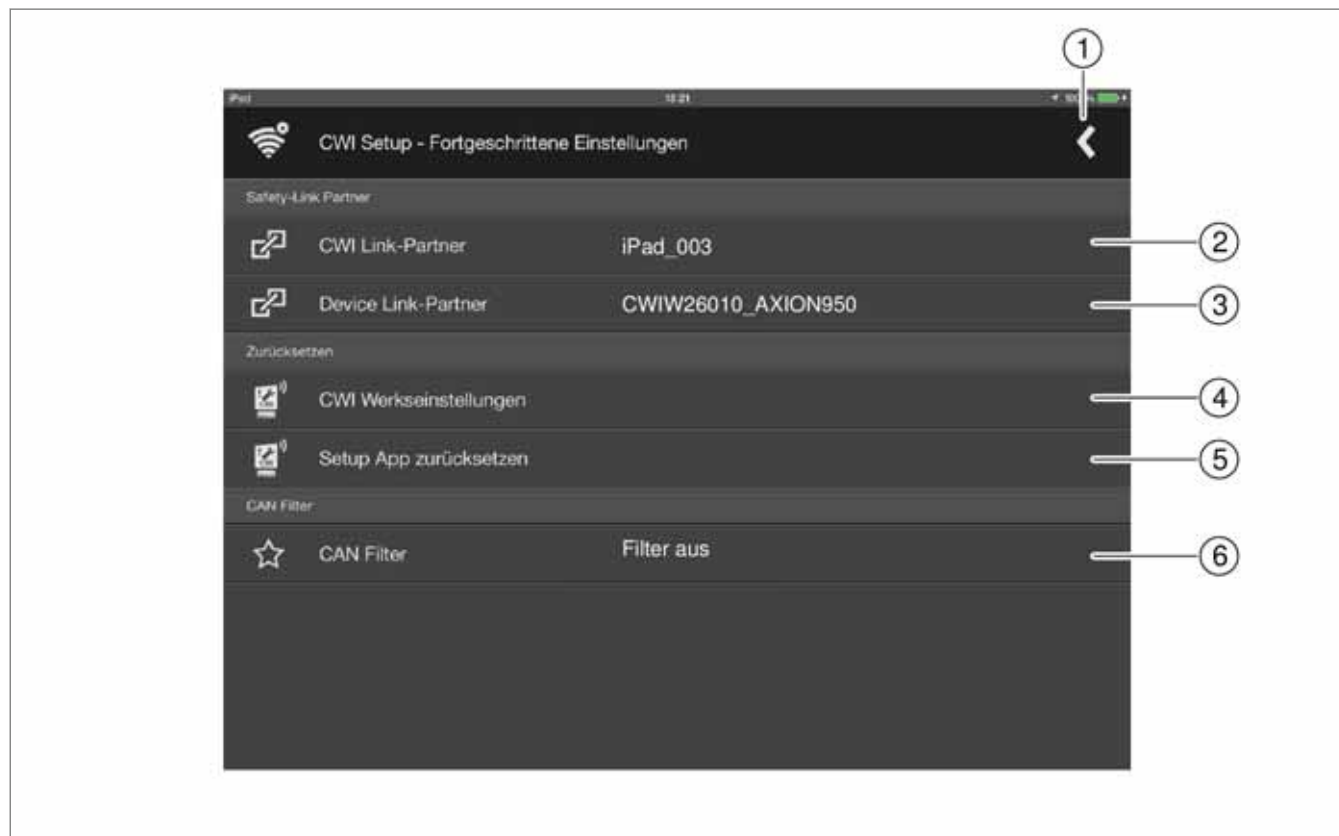


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| | Designation | Function |
|---|--------------------------------|---|
| 1 | Button <Back> | When tapped: displays the previous screen. |
| 2 | Menu bar <Device identifier> | When tapped: Change the name of the tablet. |
| 3 | Menu bar <Network name / SSID> | When tapped: Change the name of the CWI (WLAN name). |
| 4 | Menu bar <Password> | When tapped: Change password for WLAN. |
| 5 | Menu bar <Communication LED> | Displays the status of the LEDs on the CWI: <ul style="list-style-type: none"> • green: LEDs are on. • gray: LEDs are off. When tapped: Switch LEDs on the CWI on or off. |
| 6 | Menu bar <Advanced settings> | When tapped: displays the <CWI Setup - Advanced Settings> menu. |

4.2.5 Submenu <CWI Setup - Advanced settings>



289090-001

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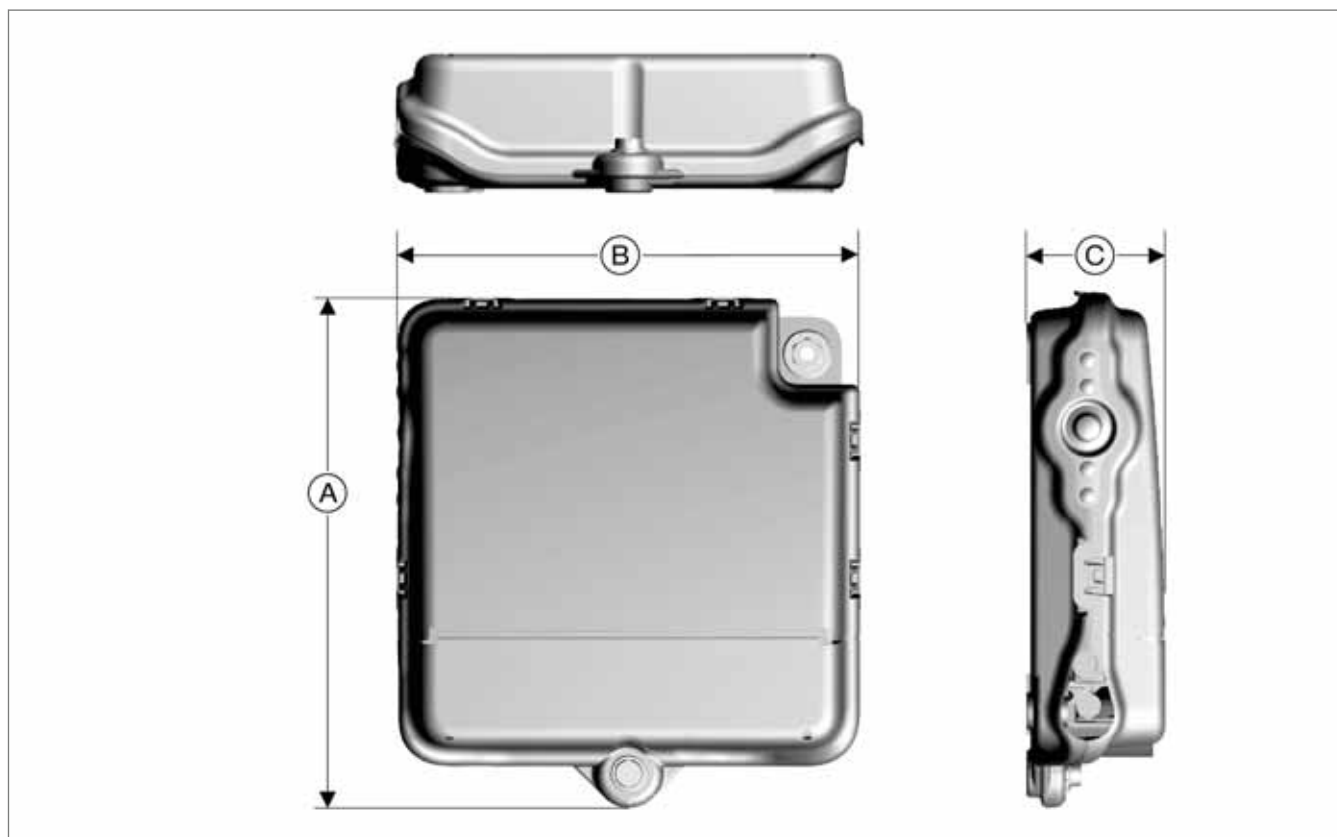
| | Designation | Function |
|---|---------------------------------|---|
| 1 | Button <Back> | When tapped: displays the previous screen. |
| 2 | Menu bar <CWI Link partner> | Displays the name of the tablet, that is stored in the CWI. When tapped: Deletes the name saved in the CWI. |
| 3 | Menu bar <Device Link partner> | Displays the name of the CWI that is stored in the tablet. When tapped: Deletes the name stored in the tablet. |
| 4 | Menu bar <CWI Factory settings> | When tapped: Resets the CWI to factory settings. |
| 5 | Menu bar <Reset Setup App> | When tapped: Deletes all settings in the tablet. |
| 6 | Menu bar <CAN filter> | Displays the status of the CAN filter. When tapped: Switch CAN filter on or off. |

5 Technical data

5.1 CLAAS Wireless Interface (CWI)

184351-001

5.1.1 Specification



288868-001

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| | Designation | | |
|---|--|------------|----|
| A | Length | 125.7 | mm |
| B | Width | 114.4 | mm |
| C | Height | 34 | mm |
| | Weight | 160 | g |
| | Protection class | IP5k4 | — |
| | Operating temperature | -40 to +70 | °C |
| | Storage temperature | -30 to +80 | °C |
| | Operating voltage | 12 - 24 | V |
| | Maximum current consumption | 120 - 1000 | mA |
| | Maximum electrical power (without USB charging function) | 3 | W |
| | Maximum electrical power (with USB charging function) | 11 | W |
| | USB charge current | 500 - 1500 | mA |


6 Preparing product

6.1 Installing product

184363-002

6.1.1 Installing CWI Setup App

- Connect tablet to the Internet.

Connection to the Internet can be established via the wireless network (with SIM card) or via WLAN (with Access Point).  Tablet operator's manual.

- Log on in the Apple App Store.
- Searching according to the <CWI Setup>.
- Download and install CWI Setup App.

Symbol <CWI Setup App> (1) is displayed on the tablet.




302402-001

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6.1.2 Installing EASY on board App

184365-002

- Connect tablet to the Internet.

Connection to the Internet can be established via the wireless network (with SIM card) or via WLAN (with Access Point).  Tablet operator's manual.

- Log on in the Apple App Store.
- Search using the keyword <EASY on board>.
- Download and install EASY on board App.

Symbol <EASY on board App> (1) is displayed on the tablet.




288902-001

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6.1.3 Connecting tablet

Requirement:

- Bracket for CWI and tablet is mounted in the tractor cab.
-  <EASY on board App> installation instructions

- Insert tablet in bracket.



287131-002

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287132-001

- Plug in ISOBUS cable.

19



287133-002

- Plug USB charging cable into the tablet.

20



287134-002

- Connect USB charging cable to CWI.

21

7 Operation

7.1 Initial commissioning

184372-001

7.1.1 Creating WLAN connection for the first time

Requirement:

- Tablet mounted and connected in the holder.
👁 [Page 29](#)
- Blue LED on the CWI is flashing.

184474-001

NOTICE

The initial commissioning must be performed within 10 Min. of plugging in the ISOBUS cable.

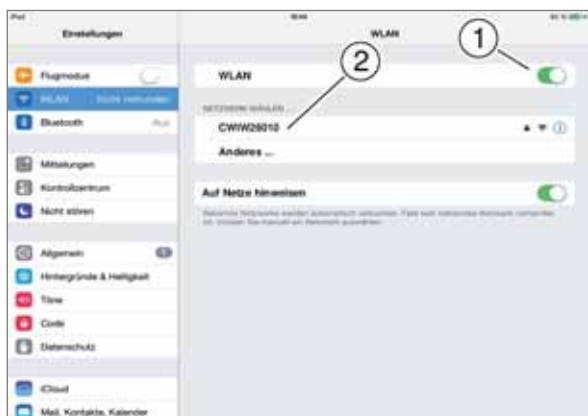
If this time frame is exceeded, the blue LED slowly flashes and the CWI switches off reception for the WLAN.

- ▶ Unplug the ISOBUS cable of the CWI, then plug it back in.
-
- ▶ Tap <Settings> (1) symbol.



288942-001

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288940-001

23

- Switch on WLAN (1).
 - Switch off CWI (2).
- The preset name of the CWI consists of "CWI" and the serial number, which is also shown on the identification plate (3).



288945-001

24



288943-001

25

- During the initial commissioning, enter the following password (1):
claas-cwi

The preset password is indicated in the cover of the CWI. [👁 Page 18, Factory settings](#)



288944-001

26

WLAN connection to the CWI (1) is created.

- Next steps: [👁 Page 33, Changing factory setting](#)

7.1.2 Changing factory setting

Requirement:

- Blue LED on the CWI is flashing.

184474-001

NOTICE

The initial commissioning must be performed within 10 Min. of plugging in the ISOBUS cable.

If this time frame is exceeded, the blue LED slowly flashes and the CWI switches off reception for the WLAN.

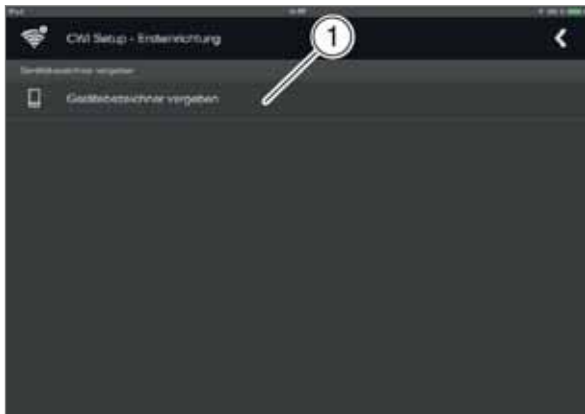
- Unplug the ISOBUS cable of the CWI, then plug it back in.

- Tap <CWI Setup App> (1) symbol.



288901-001

27



288949-001

28

Automatic sequence is started.


<CWI Setup - Initial setup> screen is displayed.

- Tap <Assign device identifier> (1) menu bar.



288950-001

<Device identifier> screen is displayed.

- ▶ Enter name (1) for tablet.
- ▶  Tap <OK> button.

Name is saved.

29



288954-001

<CWI Setup - Initial setup> screen is displayed.


- ▶ Tap <Change SSID> (1) menu bar.

30




288955-001

<CWI SSID> screen is displayed.

- ▶ Enter name (1) for CWI.
- ▶  Tap <OK> button.

Name is saved.

The (SSID) name is composed as follows:

- Stationary component: "CWIxxxxxx"
("xxxxxx" corresponds to the serial number)
 [Page 17](#)
- 5 - 23 characters definable by the user
- A-Z, a-z, 0-9
- Period
- Underscore

31



288956-001

32


<CWI Setup - Initial setup> screen is displayed.

- ▶ Tap <Change WLAN password> (1) menu bar.



288957-001

<CWI password> screen is displayed.

- ▶ Enter password (1)
- ▶  Tap <OK> button.

Password is saved.

The password must meet the following requirements:


- 6 - 63 characters definable by the user
- A-Z, a-z, 0-9
- Blank spaces
- ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

33



288958-001

<CWI password> screen is displayed.

- ▶ Repeat password (1).
- ▶  Tap <OK> button.

Password is saved.

34



288959-001

<CWI Setup - Initial setup> screen is displayed.

Blue LED on the CWI comes on.

- ▶ Next steps:  [Page 36, Creating WLAN connection](#)

35

7.1.3 Creating WLAN connection

Requirement:

- Blue LED on the CWI comes on.
This means that the initial commissioning was successfully performed.

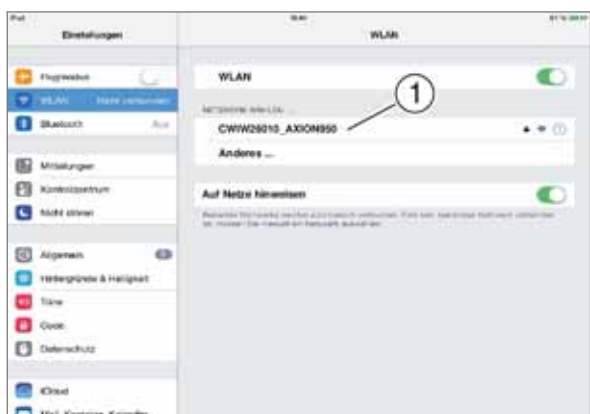
► Tap <Settings> (1) symbol.



288942-001

36

► Under <Select network>: tap CWI (1).



288963-001

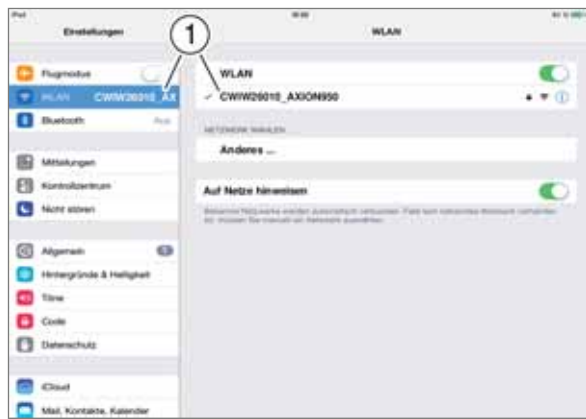
37

► Enter password (1), which was set up during the initial commissioning. [Page 33, Changing factory setting](#)



288964-001

38



288965-001

39

WLAN connection is established.

Name of the CWI (1) is displayed.

► Next steps:  [Page 39, Creating safe data link](#)

7.2 CWI Setup App

189641-001

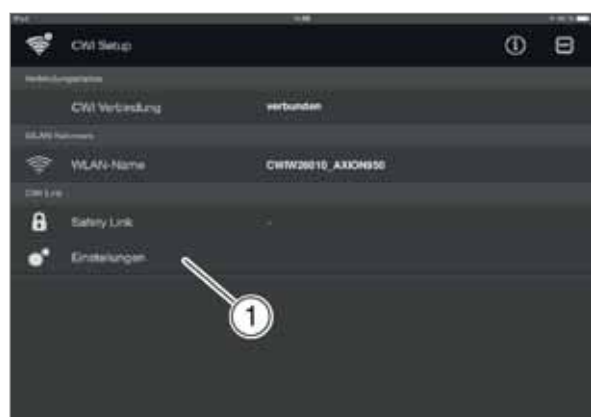
7.2.1 Calling up menus



288901-001

- Tap <CWI Setup App> (1) symbol.

40



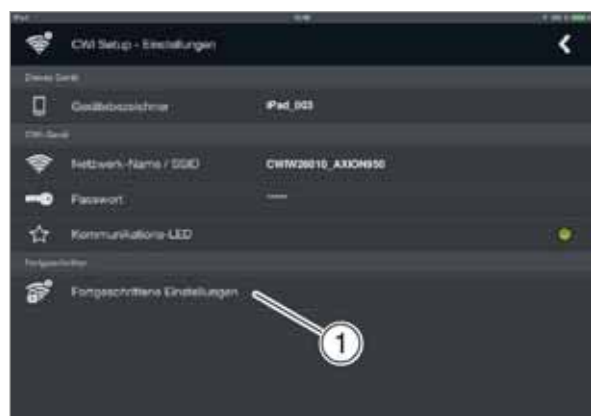
289111-001

Main menu <CWI Setup> is displayed.

Call up <CWI Setup - Settings> menu:

- Tap <Settings> (1) menu bar.

41




289133-001

<CWI Setup - Settings> menu is displayed.

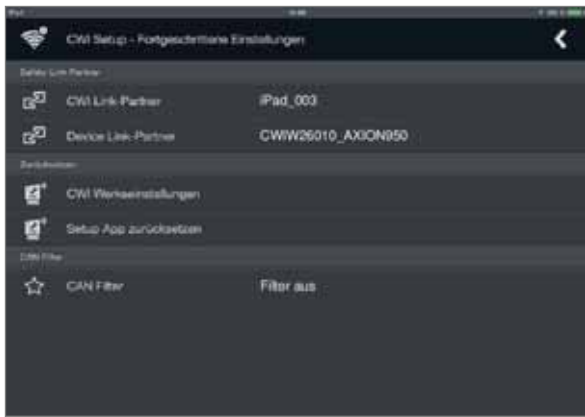
Call up <CWI Setup - Advanced settings> submenu:

- Tap <Advanced settings> (1) menu bar.

Return to the main menu:

-  Tap <Back> button.

42



301514-001

43

Submenu <CWI Setup - Advanced settings> is displayed.

Return to the <CWI Setup - Settings> menu:

- ▶ Tap <Back> button.



7.2.2 Creating safe data link

184382-001

Requirement:

- Blue LED on the CWI comes on.
This means that the initial commissioning was successfully performed.



288968-001

44

- ▶ Call up <CWI Setup> main menu.

Main menu <CWI Setup> is displayed.

(1) = <connected> : CWI link available, safe data link not present.

(2) = Name of CWI, for which a WLAN connection exists.

- ▶ Tap <Safety link> (3) menu bar.

Depending on the operating state of the CWI, the following screens appear:



288969-001

45

Case A:

- CWI has no information about the last connection or
- CWI was last connected to this tablet.

<Create safety link> screen is displayed.

- ▶ Tap <Yes> (1) menu bar.



289062-001

46

Case B:

- CWI was last connected to a different tablet or
- Name of the tablet or password was changed.

<Create safety link> screen is displayed.

- Tap <Yes> (1) menu bar.



302306-001

47

Case C:

- CWI has an active connection with another tablet.

<CWI Setup - Note> screen is displayed.

- Terminate active connection to a different tablet or
- Reset CWI to factory setting: press button on the CWI for 15 seconds.
- Tap <Back> button.



- Repeat process.



288970-001

48

<CWI Setup - Safety-Link> screen is displayed.

Green LED flashes.

Monitoring of the time period until a press of the button on the CWI is started (30 s).

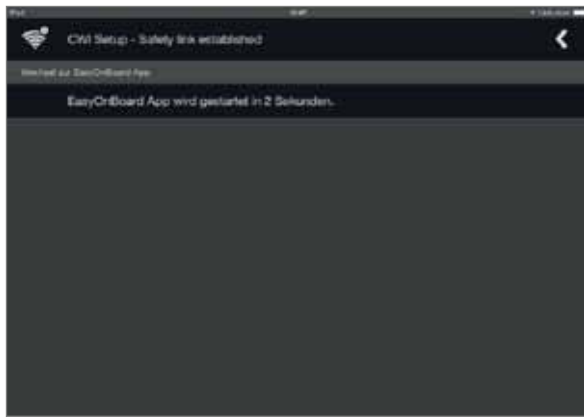
If there is no press of a button within a time frame of 30 seconds, on the CWI in question, the main menu is displayed and the process must be repeated.



289002-001

49

- Press button (1) on the CWI.



301258-001

50

Message indicates that the EASY on board App is automatically started.



301260-001

51

<Safety note> screen is displayed.

- ▶ Read safety instructions (1).
- ▶ Move confirmation slide (2) in the direction of the arrow.
Note: Display position of the confirmation slide differs.
- ▶ Next steps: [Page 52, Calling up operator's manual](#)



301269-001

52

7.2.3 Delete safe data link

184400-001

Requirement:

- Green LED on the CWI comes on.
- Blue LED on the CWI comes on.



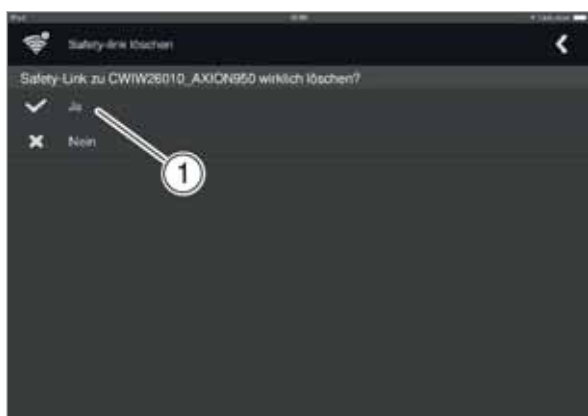
289038-001

53

► Call up <CWI Setup> main menu.
Main menu <CWI Setup> is displayed.

- (1) = <Safe linked> : Safe data link present.
(2) = Name of CWI, for which a WLAN connection exists.
(3) = <Safe linked> : Safe data link present.

► Tap <Safety Link> (4) menu bar.



289039-001

54

<Delete Safety Link> screen is displayed.

► Tap <Yes> (1) menu bar.



289042-001

55

Main menu <CWI Setup> is displayed.

Safe data link is deleted.

- (1) = <connected> : CWI link available, safe data link not present.
(2) = Name of CWI, for which a WLAN connection exists.
(3) = <-> : CWI link available, safe data link not present.

7.2.4 Displaying software version



289408-001

56

► Call up <CWI Setup> main menu.
Main menu <CWI Setup> is displayed.

► Tap <Information> (1) symbol.



289409-001

57

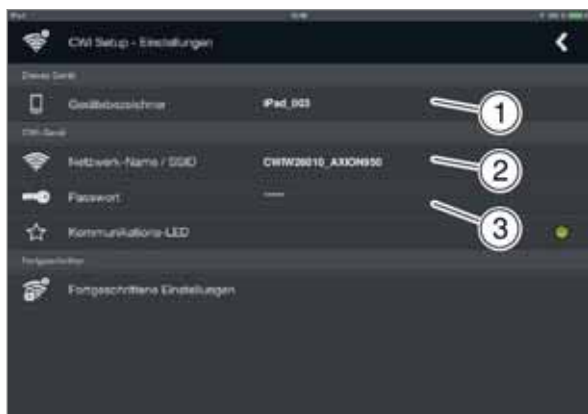
<CWI Setup - Legal notice> screen is displayed.

(1) = Software version of the CWI Setup App

(2) = Hardware version of the CWI

7.3 CWI Setup - Settings

7.3.1 Change settings



289116-001

58

- Call up <CWI Setup - Settings>.

<CWI Setup - Settings> menu is displayed.

- Tap menu bar (1) - (3) to change the desired settings.

The particular screens below are identical to those of the initial commissioning.




288950-001

59

<CWI Setup - Device identifier> screen is displayed.

The changing of these settings results in the cancellation of the safe data link. The safe data link must thereafter be recreated. [Page 39, Creating safe data link](#)

- Enter name (1) for tablet.
-  Tap <OK> button.

Name is saved.




288955-001

60

<CWI SSID> screen is displayed.

The changing of these settings results in the cancellation of the WLAN connection. The WLAN connection must thereafter be recreated. [Page 36, Creating WLAN connection](#)

- Enter name (1) for CWI.
-  Tap <OK> button.

Name is saved.

The (SSID) name is composed as follows:

- Stationary component: "CWIxxxxxx" ("xxxxxx" corresponds to the serial number) [Page 17](#)
- 5 - 23 characters definable by the user
- A-Z, a-z, 0-9
- Period
- Underscore




288957-001

<CWI password> screen is displayed.

The changing of these settings results in the cancellation of the WLAN connection. The WLAN connection must thereafter be recreated.

[Page 31, Creating WLAN connection for the first time](#)

- ▶ Enter password (1).
- ▶  Tap <OK> button.

Password is saved.

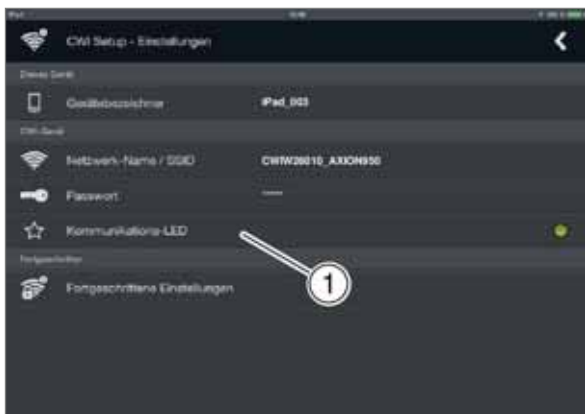
61

The password must meet the following requirements:

- 6 - 63 characters long
- A-Z, a-z, 0-9
- Blank spaces
- ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

184437-001

7.3.2 Switching LED on and off



289389-001

- ▶ Call up <CWI Setup - Settings>.
- <CWI Setup - Settings> menu is displayed.
- ▶ Tap <Communication LED> (1) menu bar.

62

<CWI Setup - Communication LED> screen is displayed.

(1) = Indicates whether the LEDs are switched on or off.

Switch on LEDs:

- ▶ Tap <LED on> (2) menu bar
- LEDs on the CWI are switched on.


Switch off LEDs:

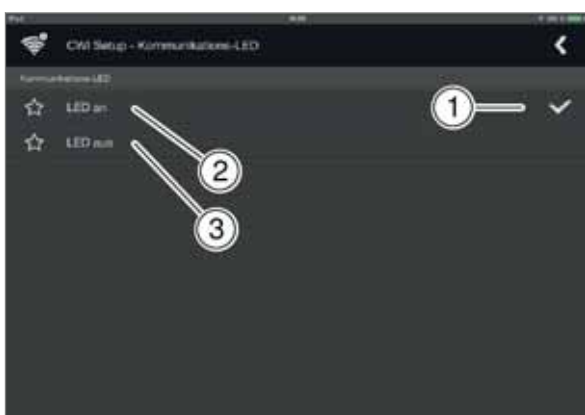
- ▶ Tap <LED off> (3) menu bar.

63

LEDs on the CWI are switched off.

Return without changes:

- ▶  Tap <Back> button.



289400-001

7.4 CWI Setup - Advanced settings

7.4.1 Deleting connection partner in the CWI



289370-001

- Call up <CWI Setup - Advanced settings> submenu.

Submenu <CWI Setup - Advanced settings> is displayed.

Both CWI as well as tablets save information about the respective data link partners. The display of a name in this screen does not mean that a secure data link actually exists.

(1) = Name of the tablet, that is stored in the connected CWI.

(2) = Name of the CWI, that is stored in the tablet.

64

- Tap <CWI Link partner> (3) menu bar to delete the names of the tablets in the connected CWI.

<Delete Safety Link> screen is displayed.

- Tap <Yes> menu bar.

Name of the tablet is deleted in the CWI.



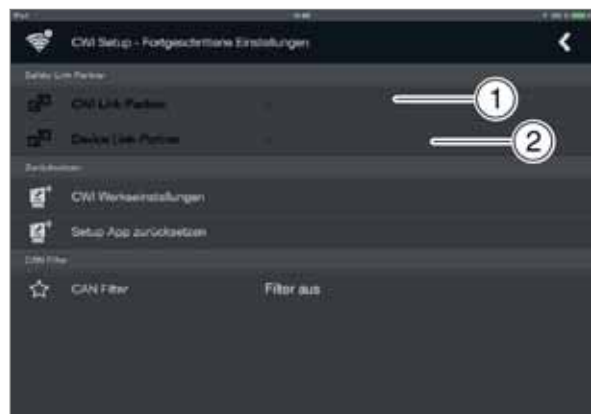
289137-001

65

Submenu <CWI Setup - Advanced settings> is displayed.

(1) = <-> : No connection partner saved in the connected CWI.

(2) = <-> : No connection partner saved in the tablet.



289381-001

66

7.4.2 Deleting connection partner in the tablet



289385-001

- Call up <CWI Setup - Advanced settings> submenu.

Submenu <CWI Setup - Advanced settings> is displayed.

Both CWI as well as tablets save information about the respective data link partners. The display of a name in this screen does not mean that a secure data link actually exists.

(1) = Name of the tablet, that is stored in the connected CWI.

67 (2) = Name of the CWI, that is stored in the tablet.

- Tap <Device Link partner> (3) menu bar to delete the names of the CWI in the tablet.

<Delete Safety Link> screen is displayed.

- Tap <Yes> menu bar.

Name of the CWI is deleted in the tablet.



289140-001

68

Submenu <CWI Setup - Advanced settings> is displayed.

(1) = <-> : No connection partner saved in the connected CWI.

(2) = <-> : No connection partner saved in the tablet.



289381-001

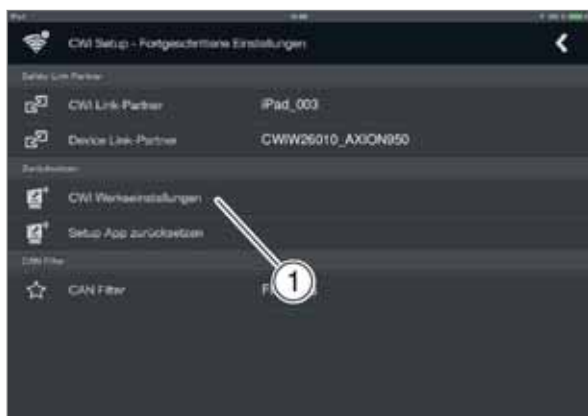
69

7.4.3 Reset CWI to factory settings

184495-001

In order to reset the CWI to factory settings, there are the following possibilities:

- Press button on the CWI for 15 seconds.
- Disconnect CWI from ISOBUS socket and plug it back in.
- With CWI Setup App, as described below.



289145-001

70

- Call up <CWI Setup - Advanced settings> submenu.

Submenu <CWI Setup - Advanced settings> is displayed.

- Tap <CWI Factory settings> (1) menu bar.



289144-001

71

<Reset CWI> screen is displayed.

- Tap <Yes> menu bar.




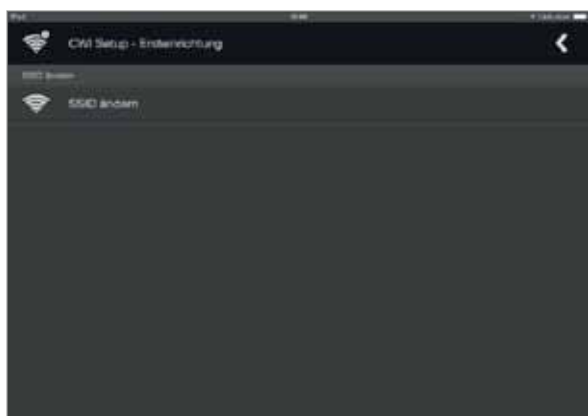
301381-001

72

<CWI Setup - Note> screen is displayed.

CWI is reset to factory setting.

-  Tap <Back> button.




302329-001

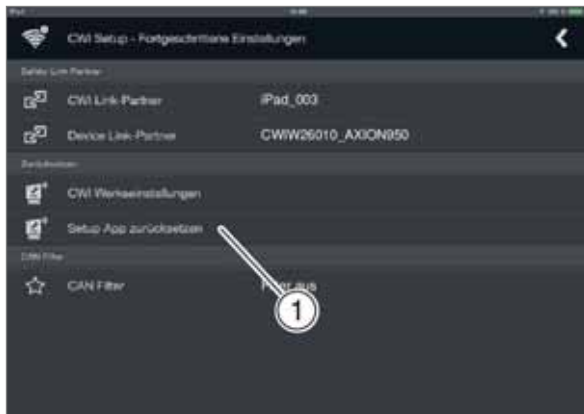
73

<CWI Setup - Initial setup> screen is displayed.

Automatic sequence is started.

- Additional procedure:  [Page 33, Changing factory setting](#)

7.4.4 Reset tablet to factory settings



289388-001

- Call up <CWI Setup - Advanced settings> submenu.

Submenu <CWI Setup - Advanced settings> is displayed.

- Tap <Reset Setup App> (1) menu bar.

74



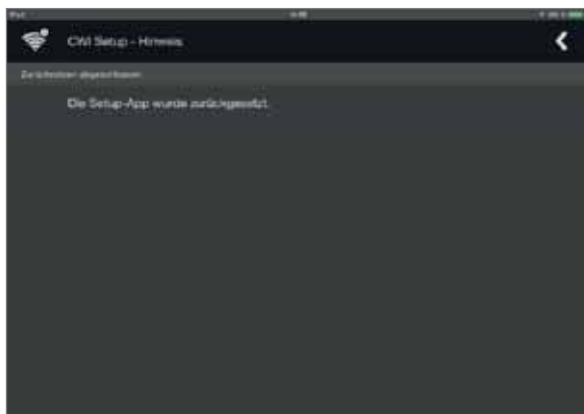
289146-001

<Reset Setup App> screen is displayed.

- Tap <Yes> menu bar.

All settings in the tablet are deleted.

75



301435-001

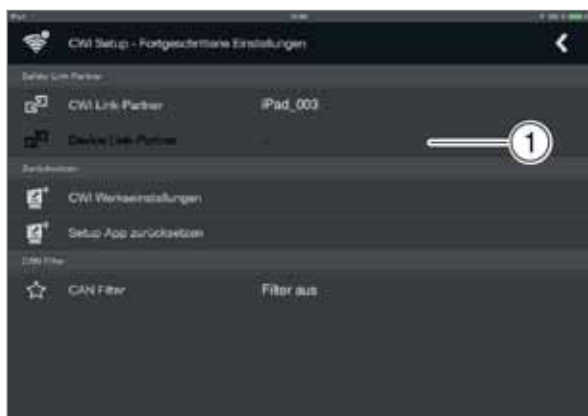
<CWI Setup - Note> screen is displayed.

CWI Setup App is reset.

- Tap <Back> button.



76



301439-001

77

Submenu <CWI Setup - Advanced settings> is displayed.

(1) = <-> : No connection partner saved in the tablet.

► Next steps: [Page 39, Creating safe data link](#)

7.4.5 Switch CAN filter on and off

189642-001

In the normal case, the CAN filter is switched off.

When the CAN filter is switched on, the machine control transmits only relevant news to the tablet. The data traffic is thereby reduced.

► Call up <CWI Setup - Advanced settings> submenu.

Submenu <CWI Setup - Advanced settings> is displayed.

(1) = displays the status of the CAN filter.

► Tap <CAN filter> (2) menu bar.



301516-001

78

<CWI Setup - CAN filter> screen is displayed.

(1) = Indicates whether the CAN filter is switched on or switched off.

Switch on CAN filter:

► Tap the <CAN filter on> (2) menu bar.

Machine controller transmits only relevant messages to the tablet.

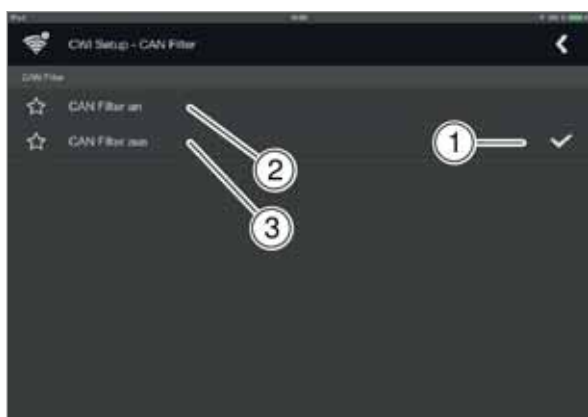
Switch off CAN filter:

► Tap <CAN filter off> (3) menu bar.

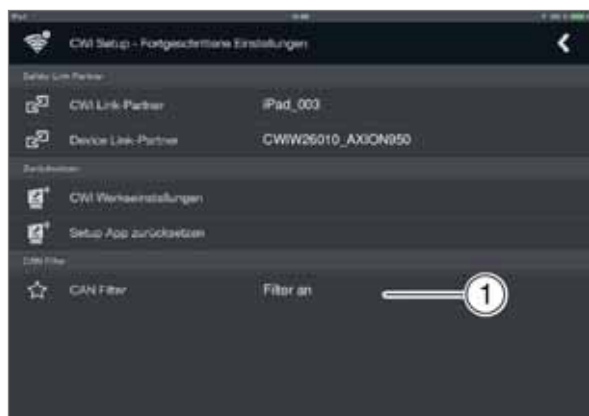
79 Machine controller transmits all messages to the tablet.

Return without change:

► Tap <Back> button.



301517-001



301518-001

Submenu <CWI Setup - Advanced settings> is displayed.

(1) = displays the status of the CAN filter.

80

7.5 EASY on board App

7.5.1 Calling up operator's manual



288902-001

- Tap <EASY on board App> (1) symbol.

81



302333-001

Last active screen is displayed.

- Tap <Menu bar> (1) button.

82



289148-001

Menu bar is displayed.

- Tap <Settings> (1) button.

83



301482-001

<Settings> screen is displayed.

- ▶ Tap <Operator's manual> (1) menu bar.

84



301485-001

<Settings, Operator's manual> screen is displayed.

- ▶ Tap <Safety> (1) menu bar.

85



301486-001

Chapter <Safety> is displayed.

Read text:

- ▶ Scroll through the text using the smart phone gestures wipe and zoom.

Return to the previous screen:

- ▶ Tap <Back> button.



86


8 Fault and remedy









8.1 Overview of the problems

184392-001

8.1.1 CWI faults

Regarding troubleshooting:

- Make sure that the LEDs are switched on.  [Page 45](#)

| Fault | Possible cause / remedy |
|--|--|
| Factory settings cannot be changed. Blue LED slowly flashes. | Time span of 10 minutes to change the factory settings is overwritten. ► Unplug the ISOBUS cable and plug it back in.  Page 29 |
| No connection after restart. All LEDs flash. | Error in the initialization of the CWI. ► Unplug the ISOBUS cable and plug it back in.  Page 29 Temperature too high. ► Allow to cool down. Hardware error. ► Replace CWI. ► Notify CLAAS dealer. |
| Tablet connects to the wrong CWI. | Located within the WLAN reception range of the table are multiple CWIs. The tablet automatically produces an WLAN connection to the CWI with which was already connected once. ► Automatic WLAN connection establishment.  Tablet operator's manual |
| Safety Link is always deleted again. | Safe data link was not used for 4 hours. ► Re-establish safe data link.  Page 39 |
| Reaction time to function inputs is too slow. | Non-relevant CAN messages increase communication traffic. ► Switch on CAN filter.  Page 50 |
| CWI automatically switches off. All LEDs flash. | Temperature too high (>73°C). ► Allow to cool down. ► Mount CWI in a cooler place. ► Unplug the ISOBUS cable and plug it back in.  Page 29 |
| Power supply for USB charging function of the tablet is failed. All LEDs flash. | Temperature too high (>65°C). ► Allow to cool down. ► Mount CWI in a cooler place. ► Unplug the ISOBUS cable and plug it back in.  Page 29 |
| LEDs on the CWI do not light up. | LEDs are switched off. ► Switch on LED.  Page 45 |

8.1.2 Fault message: USB charging connection was disconnected

301694-001

87

If the tablet is removed from the bracket and is disconnected from the USB charging cable, the machine control requires two key operation. This prevents an inadvertent triggering of machine functions.

Fault message <Attention> is displayed.

- Follow displayed safety instructions.



301695-001

88

8.1.3 Fault message: Tablet outside of WLAN reception range

184399-001



289033-001

89

If the tablet leaves the WLAN reception range of the CWI, the connected machine goes into the safety stop.

Fault message <Unexpected cutoff> is displayed.

- Bring tablet into the vicinity of the CWI.



Upon reentry into the WLAN reception range, the safe connection is restored.

9 Maintenance

9.1 Maintenance tables

184513-001

9.1.1 Daily

| | Maintenance work | |
|--------------------------|--|---|
| <input type="checkbox"/> | Check all plug connections for secure seating. | — |
| <input type="checkbox"/> | Check mounting of the tablet. | — |
| <input type="checkbox"/> | Clean tablet. |  Page 57 |
| <input type="checkbox"/> | Load software updates. |  Page 57 |

9.2 Tablet

184517-001

9.2.1 Cleaning tablet



289447-001

- Clean Tablet (1) with the suitable cloth.

90

9.2.2 Loading software updates

184519-002

- Connect tablet to the Internet.
- Log on in the Apple App Store.
- If updates are available, perform software update.

10 Decommissioning and disposal

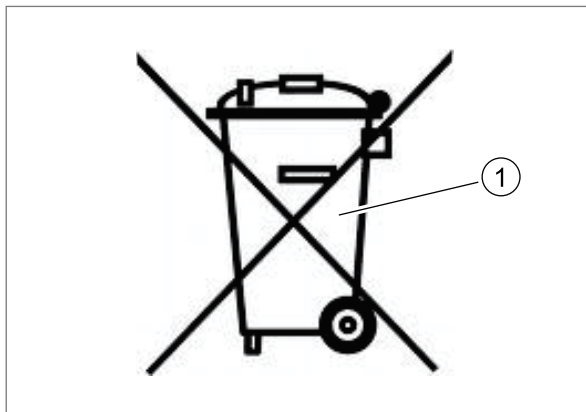
10.1 General information

162163-002

10.1.1 Decommissioning and disposal

If the machine or its components have reached the end of their useful service life and they are consigned as scrap, the components must be disposed of properly. In so doing, the regulations of the competent local authorities must be heeded.

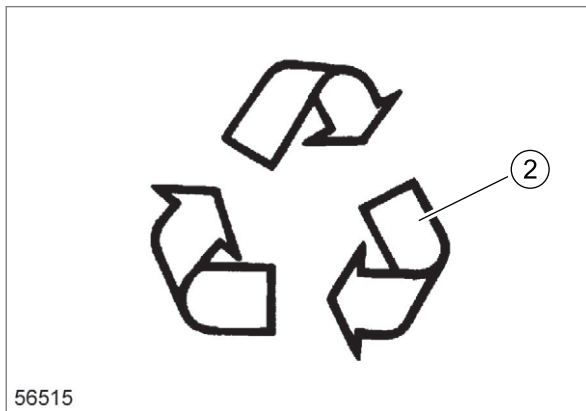
Fuels/operating materials in the machine require special disposal and must not get into the environment. Additional information regarding the disposal is available from the competent local authorities, the qualified specialist workshop or CLAAS customer service.



124657-002

91

- ▶ Do not dispose of products with the symbol (1) in domestic waste when they reach the end of their service life.



56515

124658-002

92

- ▶ Materials bearing the symbol (2) that have been used should be recycled in accordance with their label.

- ▶ Recycle packaging materials, consign them for reuse and do not dispose of them in the domestic waste.
- ▶ Plastics that are marked with the indication of the material, for example, PP TV 20 should be recycled, consigned for reuse and not disposed of in the domestic waste.
- ▶ Sort and recycle old metals, consign them for reuse and do not dispose of them in the domestic waste.

- ▶ Properly dispose of electrical and electronic components, or deposit them at a collection site. Do not dispose of electrical and electronic components in the domestic waste.
- ▶ Old batteries contain hazardous materials and must be accepted back by the distributor, properly disposed of or deposited at a collection site. Do not dispose of old batteries in the domestic waste.
- ▶ Treat operating materials, such as oils, hydraulic fluids, brake fluid or fuels like special waste and dispose of them properly. If fluids are drained, always use containers that do not leak. Do not allow any operating materials to flow onto the ground, into the sewer system or into water sources.
- ▶ Clean hydraulic components loaded with oil, for example, valves, pipes or hoses or treat them like special waste and dispose of them properly.
- ▶ Have refrigerants disposed of by professional companies with specialist personnel and the required technical equipment. Refrigerants must not end up in the atmosphere. Have refrigerants disposed of by a qualified specialist workshop. Heed country-specific regulations.
- ▶ Heed regulations of the competent local authorities.

11 Technical terms and abbreviations

11.1 Terms and explanations

184533-001

11.1.1 Abbreviations

| | |
|----------------|---|
| A | Amperes |
| App | Application (application software for tablets and smartphones) |
| CAN | Controller Area Network (serial bus system) |
| CCN | CLAAS Component Number |
| CDS | CLAAS diagnostic system |
| CE | Conformité Européenne |
| cm | Centimeter |
| CUTT | CLAAS Universal Tablet based Terminal (combination of CWI and tablet with appropriate application programs) |
| CWI | CLAAS Wireless Interface (component for the connection of ISOBUS and tablet via WLAN) |
| db | Decibels |
| dB (A) | A-rated equivalent continuous sound pressure level |
| DIN | German Institute for Standardization |
| EG | European Community |
| EN | European Standard |
| Vehicle ID no. | Vehicle identification number |
| g | Gram |
| Ges. | Total |
| GPS | Satellite navigation system |
| h | Hours |
| ISO | Internationale Organisation for Standardization |
| kg | Kilograms |
| KGaA mbH | Kommanditgesellschaft auf Aktien mit beschränkter Haftung (private limited liability company) |
| kPa | Kilopascals |
| km | Kilometers |
| km/h | Kilometers per hour |
| kW | Kilowatts |
| l | Liters |
| l/min | Liters per minute |
| LED | Light emitting diode |
| m | Meters |
| mA | Milliamperes |

| | |
|--------|--|
| rpm | Revolutions per minute |
| mm | Millimeters |
| m/s | Meters per second |
| Nm | Newton meters |
| s | Seconds |
| SSID | Service set identifier (device in a WLAN wireless network) |
| StVZO | Road Traffic Licensing Law |
| UT-App | Universal Terminal App (application program for tables for the operation of CLAAS ISOBUS implements) |
| UTyp | Subtype |
| V | Volts |
| W | Watts |
| WLAN | Wireless Local Area Network (local wireless network) |
| z. B. | For example |
| % | Percent |
| °C | Degrees Celsius (unit for temperature) |

11.1.2 Technical terms

| | |
|-------------------|---|
| Access Point (AP) | Access point for wireless networks (also: base station) |
| App Store | Sales portal for apps of the manufacturer Apple |
| CAN bus | Serial bus system |
| Data bus | Transfers data between the connected devices |
| iPad | Brand name for tablets of the manufacturer Apple |
| ISOBUS | Standardized communication log for the data exchange between individual components (according to ISO 11783) |
| Machine | Implement for attachment to the tractor |
| Recycles | Reuse of used, defective or no longer needed products |
| Safety link | Safe data link |
| Smart phone | Mobile telephone |
| Tablet | Portable, flat computer with touchscreen |
| Touchscreen | Touch-sensitive screen |
| WLAN | Local wireless network |

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