ISOMatch Grip

016-0171-722 Rev. A 12/20 E36600

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USER MANUAL

IsoMatch Grip

Identification of the machine

In order to give the best possible product support, your dealer requires several details regarding the terminal specification.

Designation	IsoMatch Grip
Article number	IsoMatch Grip A136138200
Hardware version	IsoMatch Grip V1.1
Manufacturer's address	Kverneland Group Mechatronics BV. Hoofdweg 1278 NL-2153 LR Nieuw Vennep The Netherlands

Preface

Target group of this manual

This operation manual is meant for those concerned with the control, use and maintenance of the product. It contains all data required for a safe handling, use and maintenance of the product.

For your safety

Before carrying out any adjustments and use of this product, familiarise yourself with this operation manual. By doing so your safety and the optimum performance are assured. It is very important to read this manual carefully before using the product and keep it to hand for reference. In this way you will avoid accidents, respect the warranty conditions and always have a functional device in perfect working order.

For the employer

All personnel are to be trained in the use of the product regularly (at least once a year) in accordance with employers' liability insurance association guidelines. Untrained or unauthorized individuals are not permitted to use the product.

You are responsible for the safe operation and maintenance of your product. You must ensure that you and anyone else who is going to operate, maintain or work around the unit be familiar with the operating and maintenance procedures and related safety information contained in this manual.

Symbols used

In this operation manual the following symbols and terms are used:

● A bullet represents enumerations.

▶ A triangle represents mandatory steps.

➲ An arrow represents cross references at other text passages.

Besides these symbols, pictograms are used, which will help you with the location of text passages:

Tip! This word shows tips and advices for the easy use of the machine/product.

⚠ The triangle refers to danger at assembling or adjusting work of the machine/product.

Safety information

Safety decals

This chapter describes general safety information regarding this product.

For your safety, safety decals are placed at significant places on the device. Please do not remove them. If they become illegible or begin to peel off, replace them with appropriate spare stickers.

When using a high pressure cleaner, do never aim the spray directly at the product.

General safety information

Read and understand the following general safety information. Specific safety information is pointed out throughout this manual.

Read and follow the instructions

Before starting to use the product, read the operation manual and follow the instructions. Failure to follow the instructions may lead to damage or injury.

Only qualified personnel

Installation, operation and maintenance may only be performed by qualified personnel that is trained in installation, operation and maintenance of the product.

Check technical failure

Before starting to use the product, check that it is in perfect working condition. In case of defective components, contact your dealer for repair and replacement. Defective components may cause failure, leading to damage or injury.

Keep in good working condition

Keep the product in good working condition.

Use original spare parts

Only use original Kverneland Group spare parts. Using other products may lead to malfunction of the product or reduced safety. Warranty is not valid when non-original spare parts are used.

Do not open the product

Do not open the product housing. Opening the housing may result in reduced lifetime and malfunction of the product. Opening the product renders warranty void.

Check cables

Check cable condition, replace damaged cables before connecting the product. Damaged cables may lead to damage or malfunction of the machine/product.

Disconnect power supply during maintenance

During installation or maintenance work, disconnect power supply from the battery. Otherwise damage to the product may occur.

Watch the temperature range

Watch the temperature range of the machine/product:

- **Storage temperature** -20 to +70 degrees Celsius.
- **Operation temperature** -20 to +70 degrees Celsius.

Extreme high or low operating temperatures may lead to malfunction of the product.

Intended use

This device is designed for use in agricultural or similar operations. Any other use of the device is unintended use. The manufacturer and dealer are not liable for damage or injury caused by improper use.

Cleaning the product

Keep the product clean in all conditions. Clean the product with a dry or slightly damp cloth.

Storing the product

When the product is not mounted on the tractor, store it in a dry and clean place. Obey the storage ambient temperature range.

Troubleshooting

When technical failure occurs

- ▶ stop operation!
- ▶ refer to ➲ **troubleshooting** to solve the problem!
- ▶ when the problem persists, contact your local dealer!

Continuing to operate when technical failure occurs may lead to damage to the device!

Getting to know the product

IsoMatch products

The IsoMatch product range is developed for monitoring, operation and control of Kverneland Group agricultural implements.

The IsoMatch Grip is an ISOBUS compatible AUX device which can be used in combination with the Kverneland Group ISOBUS virtual terminals and machines, as well as with ISOBUS compatible competitor systems. With its 44 programmable function assignments and its ergonomic design it will provide full control of any compatible ISOBUS machine with minimum effort for the driver of the tractor.

Features

SMART

Program the function assignments as you wish, it is fully configurable. Assignments are saved per machine.

EFFICENT

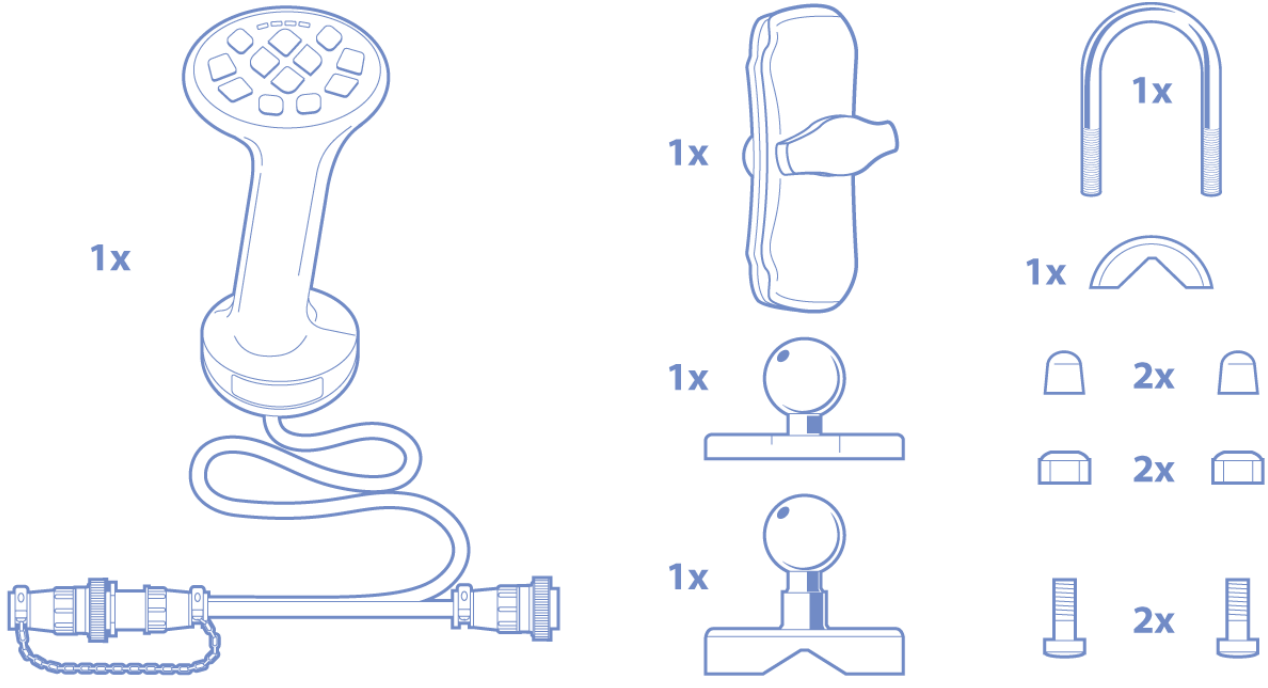
Full control of the entire machine operation from your fingertips!

EASY

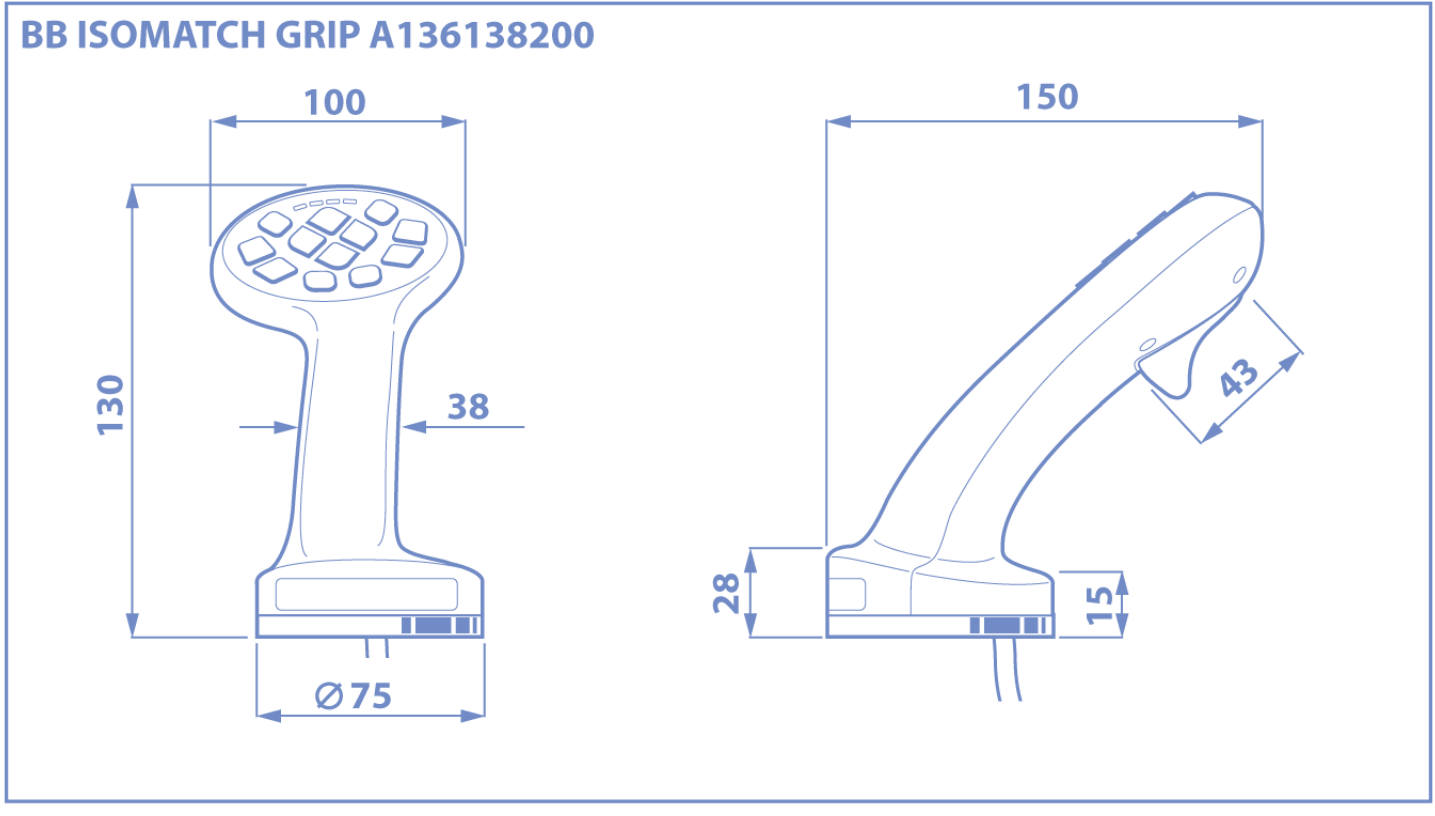
Use the ISOBUS virtual terminal interactively as a cheat sheet when learning the function assignments for a specific machine.

Products delivery IsoMatch Grip

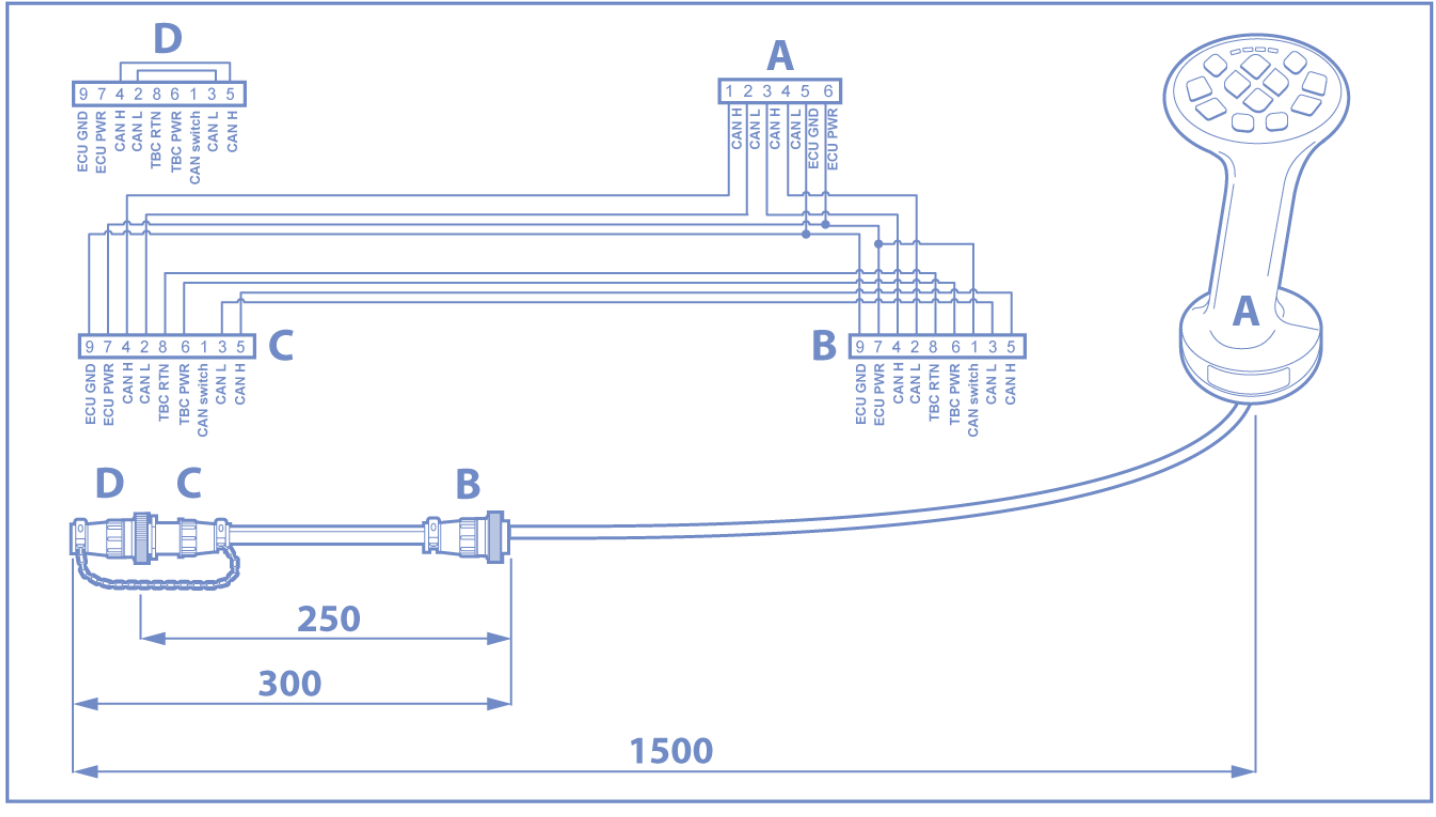
BB ISOMATCH GRIP A136138200



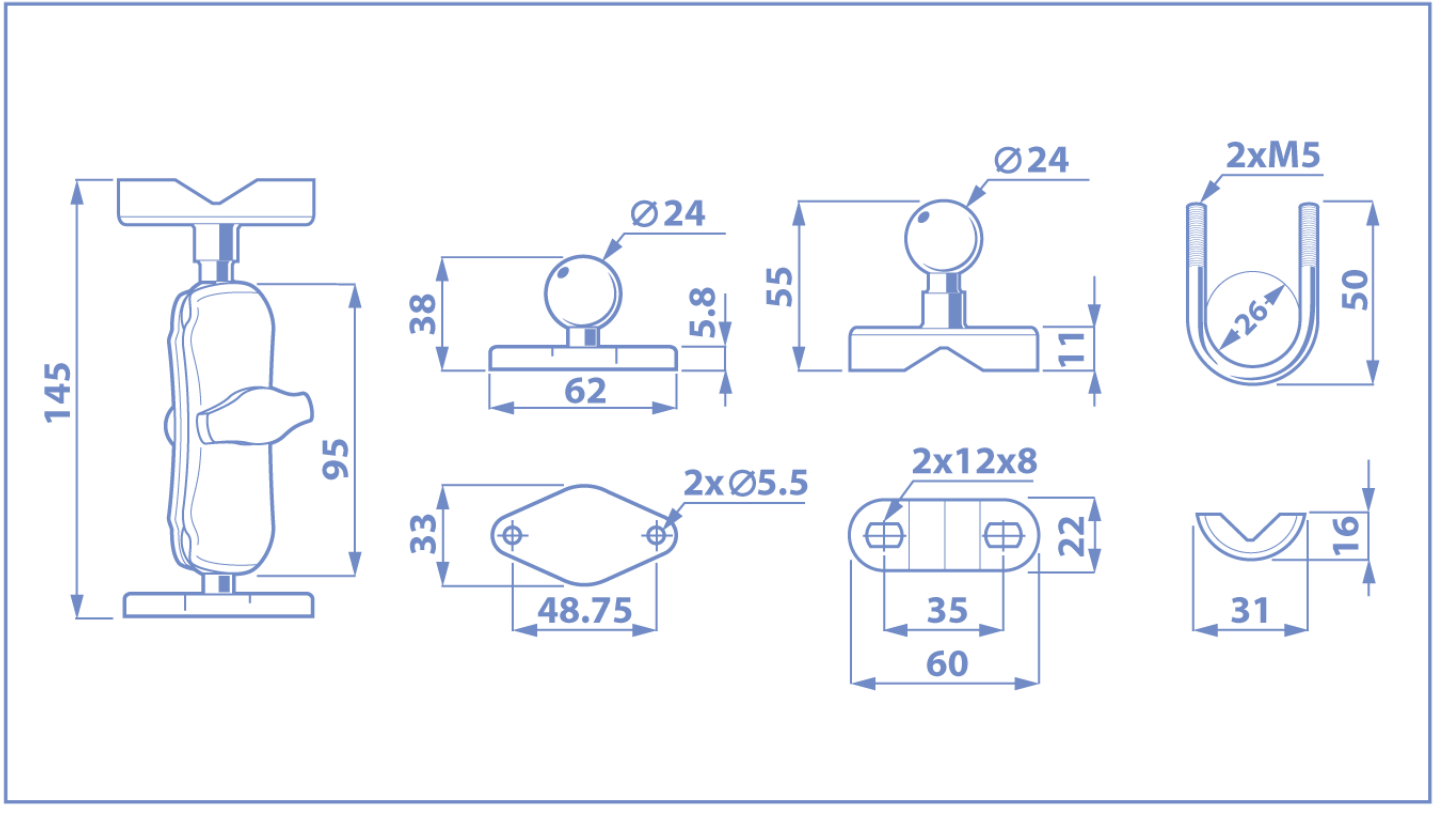
Dimensions IsoMatch Grip



Cable lengths and pinning



Dimensions clamp set components

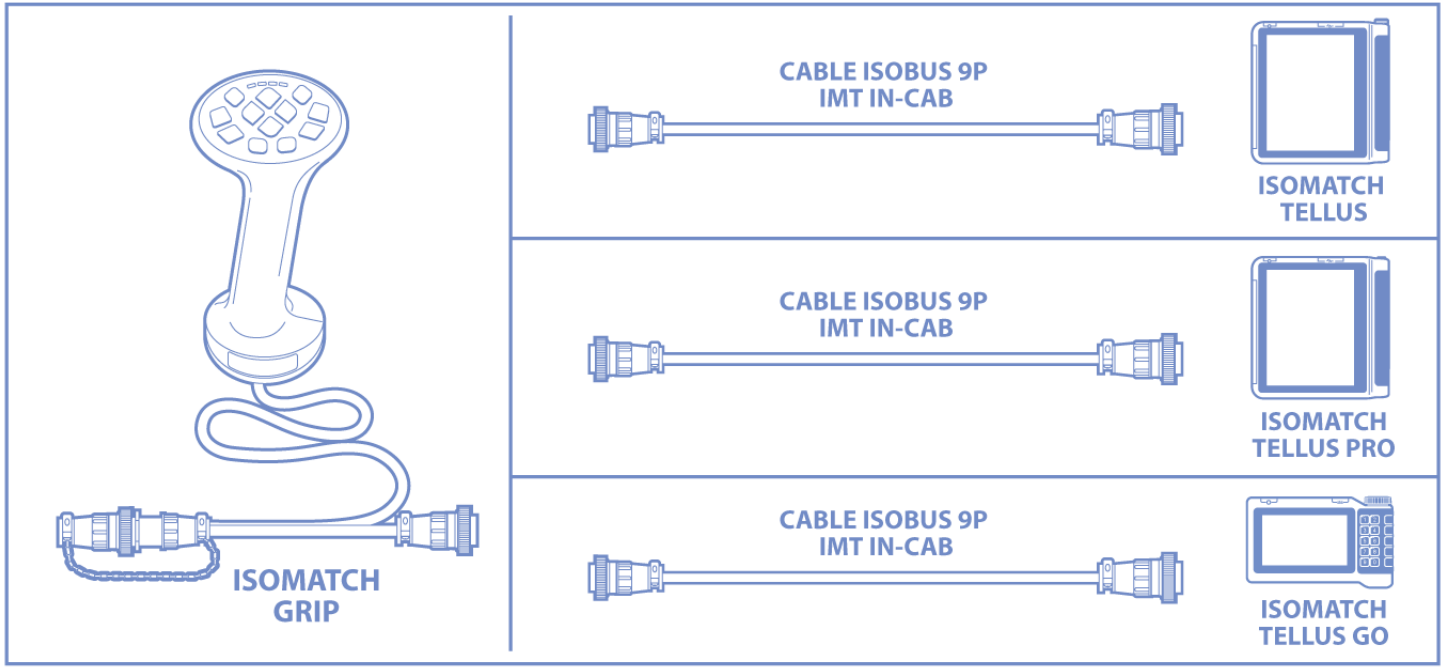


Technical specifications

Subject	Item	Description
Materials:	Housing	PA reinforced with glass fibres
	Keypad	Silicone
	Basis plate	Aluminium
	Clamp set	Aluminium
	Rubber balls	Rubber + Aluminium
Color:	Housing	RAL 7021
	Keypad	Black
	Basis plate	Brushed Aluminium
	Clamp set	Powder coated black
	Rubber balls	Black
Weight:	IsoMatch Grip with cable	410 g
	IsoMatch Grip without cable	290 g

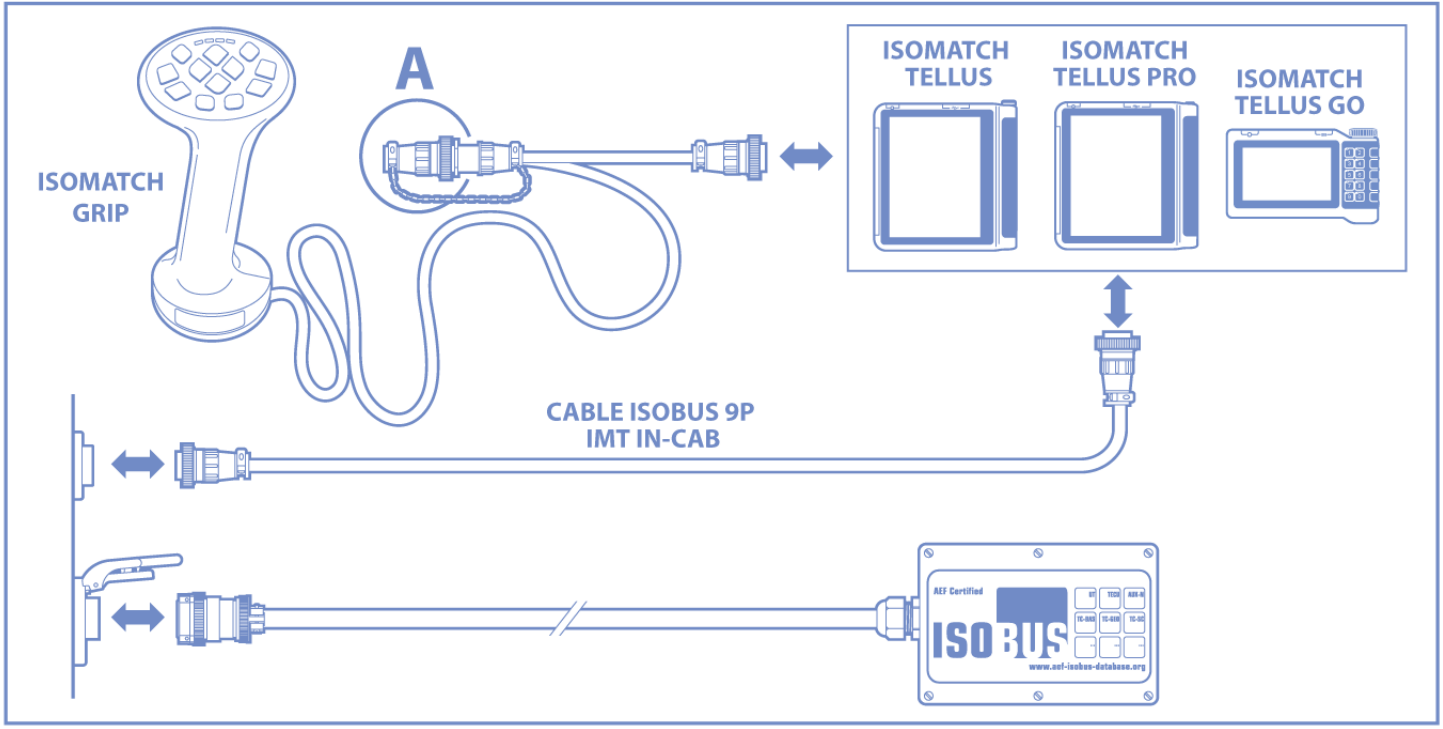
Subject	Item	Description
Weight:	Clamp set	194 g
Specifications:	Connection	9P cable on the bottom side to the next ISOBUS device (CPC 9M) and the tractor (CPC 9F).
Ratings:	Output	ISOBUS
	Power supply	6-32V DC
	Operating temperature	-20 to +70 degrees Celsius
	Storage temperature	-20 to +70 degrees Celsius
	IP rating	IP 64

IsoMatch Grip requirements



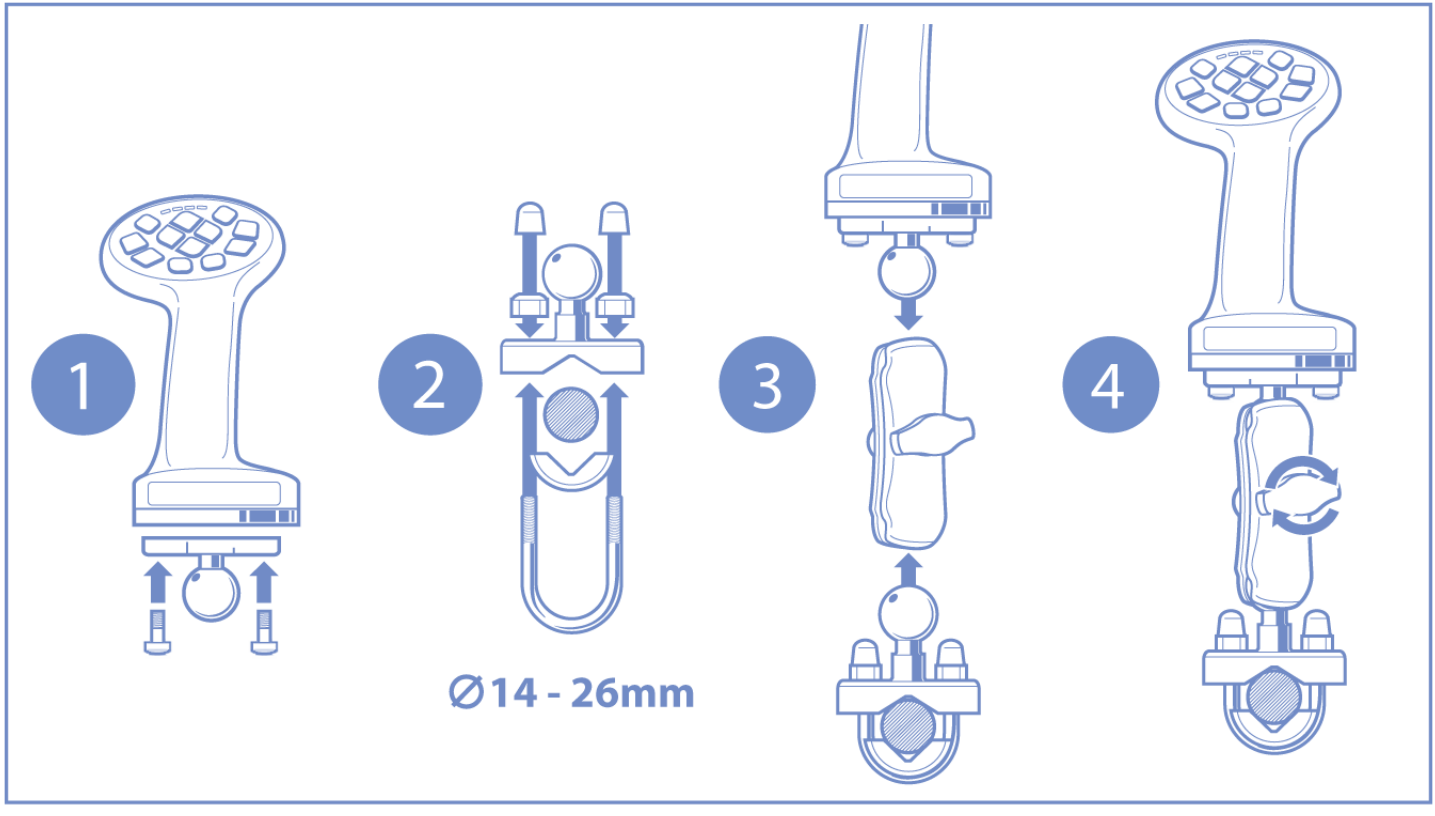
Note: The IsoMatch Grip is an ISOBUS compatible AUX device which can be used in combination with ISOBUS compatible competitor systems as well. For more information we advise you to contact your dealer or refer to your specific user manual.

Connecting the IsoMatch Grip to IsoMatch terminals



Detail A: Connector can be connected to other 'incab devices'. Always use the protective cap when not connected to another device.

Mounting the clamp set to the IsoMatch Grip



Mounting the IsoMatch Grip in the tractor cabin

To mount the IsoMatch Grip in the tractor cabin

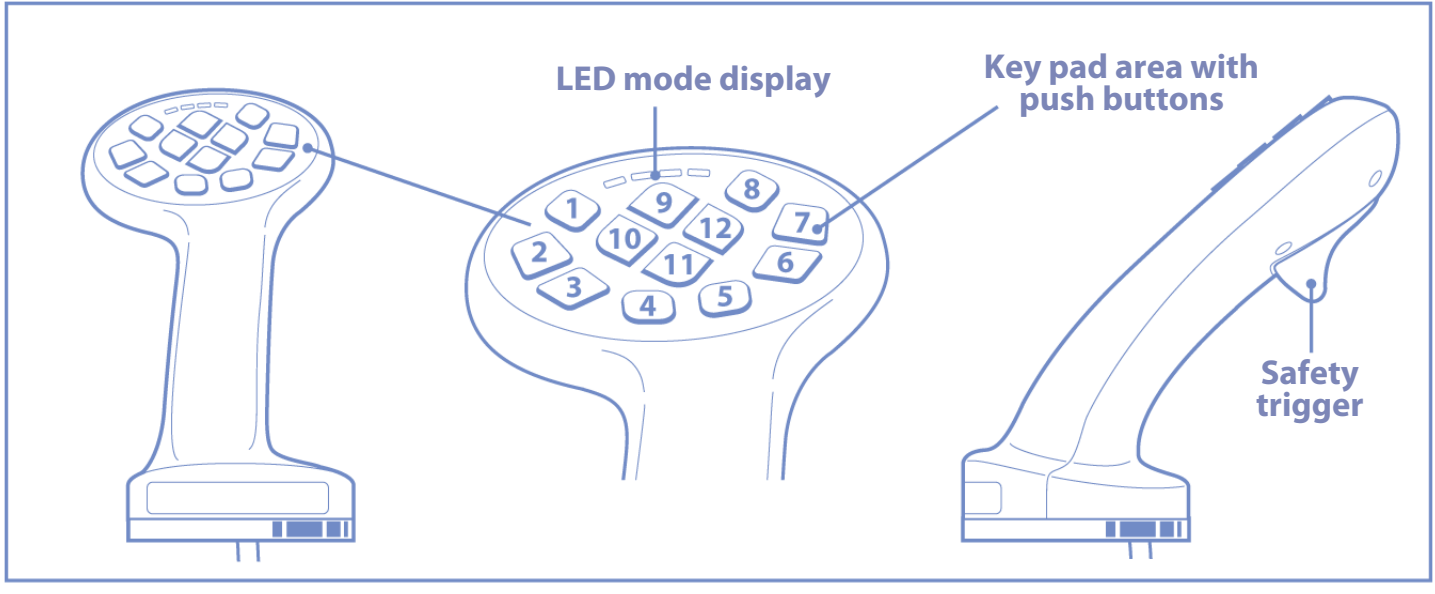
⚠ ▶ choose an appropriate and suitable place in the tractor cabin where

- it is easy to attach and operate the IsoMatch Grip
- the IsoMatch Grip does not either obstruct the proper and intended use of the machine
- the placement or use of the IsoMatch Grip does not lead to machine damage or injury.

▶ Then connect the IsoMatch Grip to the ISOBUS incab connector.

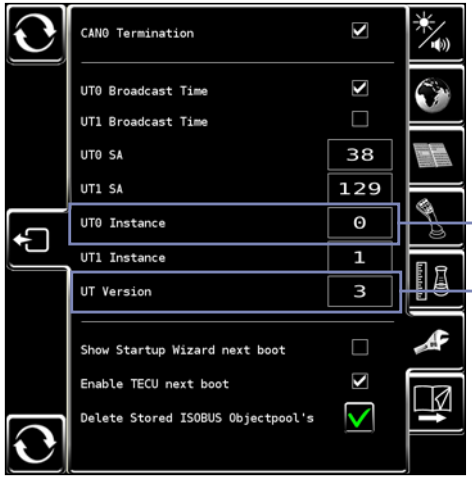
Working with the IsoMatch Grip

Overview Isomatch Grip



Presetting

▶Open the UT configuration screen of your terminal and check the currently listed UT version.
▶If necessary adapt UT version parameters.



- UT instance 0
- UT version 3 or higher (not selectable on IsoMatch Tellus GO and Isomatch Tellus PRO).

  Note: Some UT manufacturers use **1** as the lowest instance number instead of **0**. In this case instance **1** should be set.

Important!

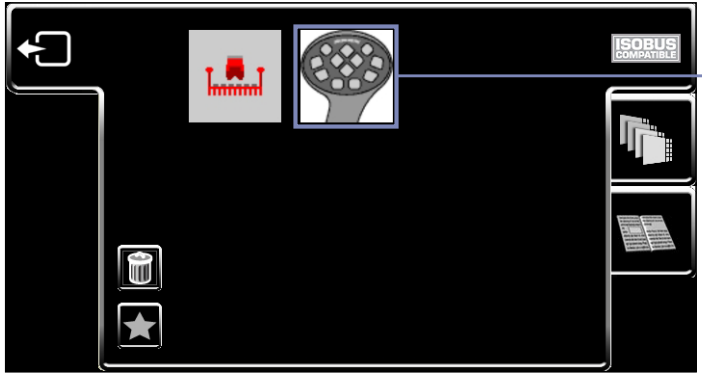
- The IsoMatch Grip requests **UT Version 3 or higher**.
- The IsoMatch Grip works only with an implement connected to **UT Instance 0 (1)**.
- Changing UT version parameters requires a reboot of your terminal.

Initial start up

▶Switch on the **IsoMatch** terminal.

▶Press the **Application selector** button to get to the application selector where all ISOBUS compatible implements are listed.

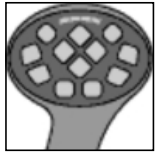
Note: The appearance of the screens might be different depending on the ISOBUS terminal in use.



Implement IsoMatch Grip

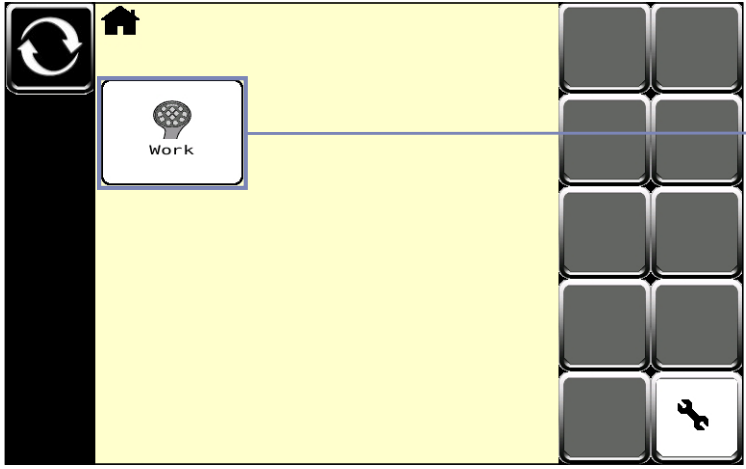
Note: As long as the connection to the UT is not (yet) established, the buttons are flashing one after another in a clockwise direction.

▶Press the **Implement IsoMatch Grip** icon to get to the **Home** screen.



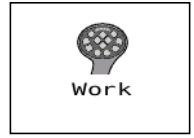
Home screen

After pressing the **Implement IsoMatch Grip** icon, the home screen pops up from where it is possible to navigate to the IsoMatch Grip **Work** screen.



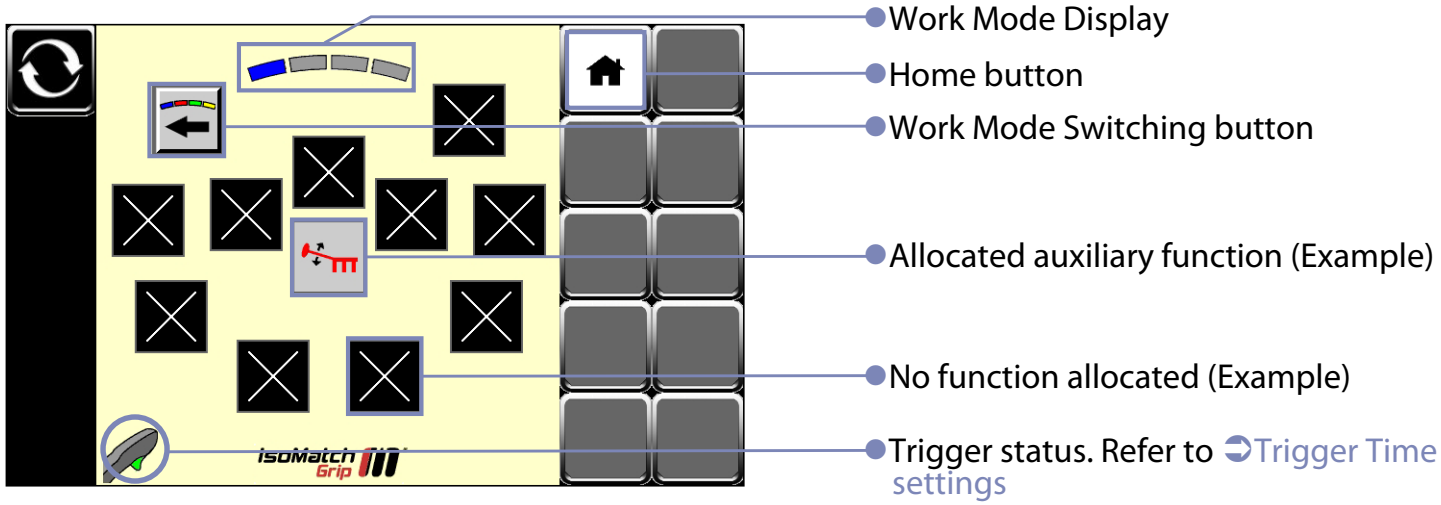
IsoMatch Grip Work screen button

▶To get familiar with the **Work screen** press the **Work screen** button.

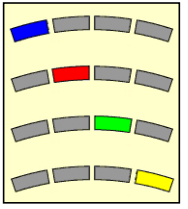


Work screen

The **Work** screen that is popping up displays allocated auxiliary functions to the push buttons (Example) and enables to switch the work modes.



The **Work Mode Display** indicates the actual work mode by colour (blue-red-green-yellow).



Note: **Work Mode Switching** enables to switch smartly between the work modes when more than one mode is allocated with auxiliary functions.

If more than one mode is allocated with auxiliary functions, switching the work mode in the **Work Mode Display** happens with the help of the **Work Mode Switching** button.

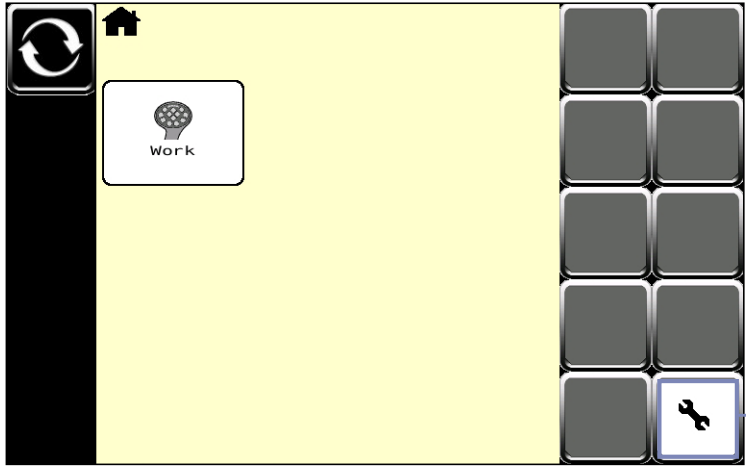
If more than two modes are allocated with auxiliary functions and a single button is configured for mode switching, alternatively it is possible to flip the direction of the **Work Mode Switching** button by pressing the **Trigger.**

Note: **Work Mode Switching** buttons can be pressed on screen, **Allocated Auxiliary Functions** can not be pressed on screen.

Note: For more detailed information regarding **Work Mode Settings** and **Work Mode Switching** refer to ➲Operation Settings.

▶Press the **Home** button to get back to the **Home** screen.

The **Home screen** enables to set or edit **User Settings**.

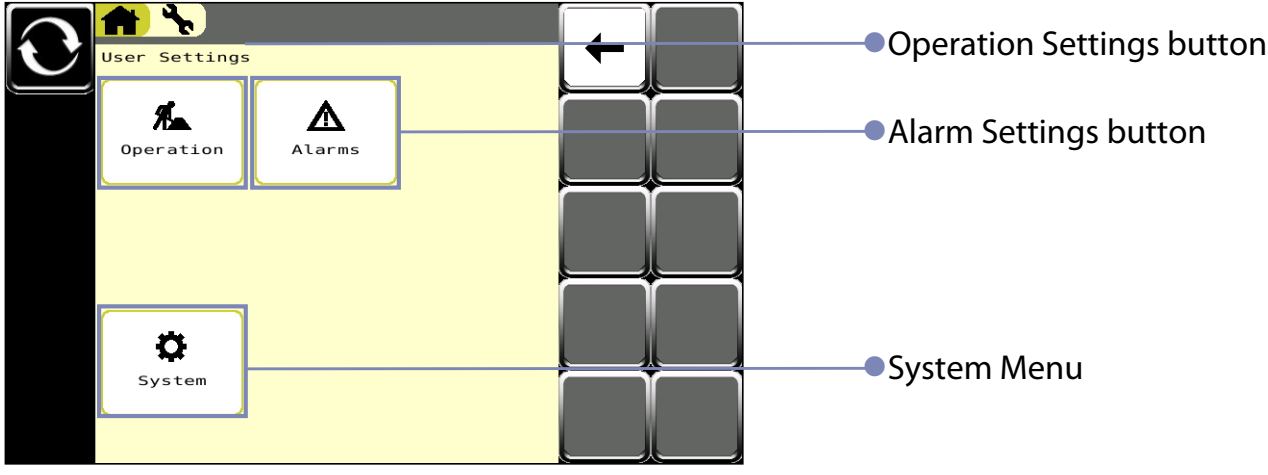


User Settings button

▶Press the **User Settings** button.

User Settings screen

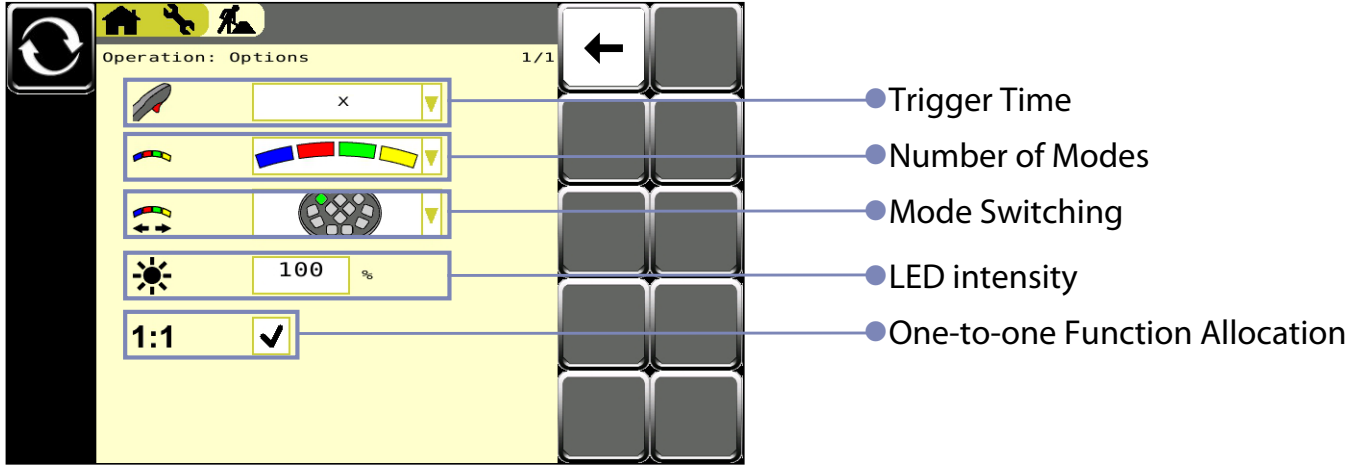
The **User Settings** screen pops up which facilitates setting or editing **Operation, Alarm and System Settings**.



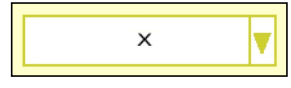
▶Press the **Operation Settings** button.

Operation Settings

The **Operation Settings** screen enables setting and editing of the **Trigger Time, Number of Modes, Mode Switching, LED intensity** and the **One-to-one Function Allocation**.



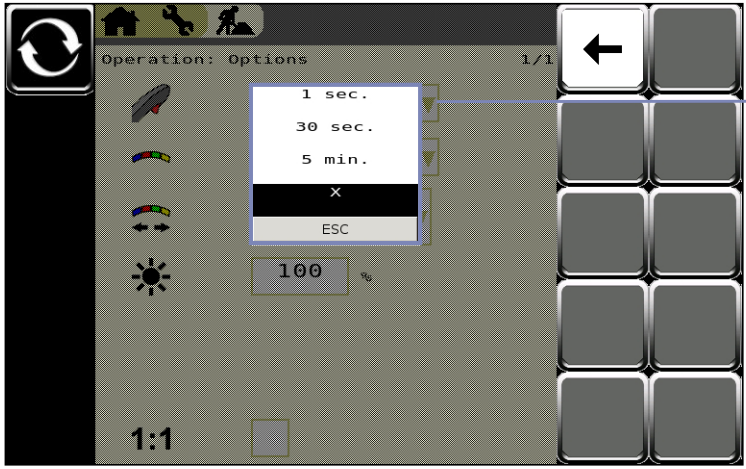
▶Press the **Trigger Time** field.



Trigger Time settings

The **Trigger Time** is a safety function which works as a time out and which can be set to 1 second, 30 seconds, 5 minutes or none.

When the trigger is pressed the buttons of the IsoMatch Grip are enabled until the specified time out occurs. After that the buttons are disabled until the trigger is pressed again.



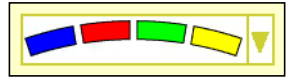
Trigger Time

Note: In case there is no Trigger functionality desired,

▶set the **Trigger Time** to none (**x**).

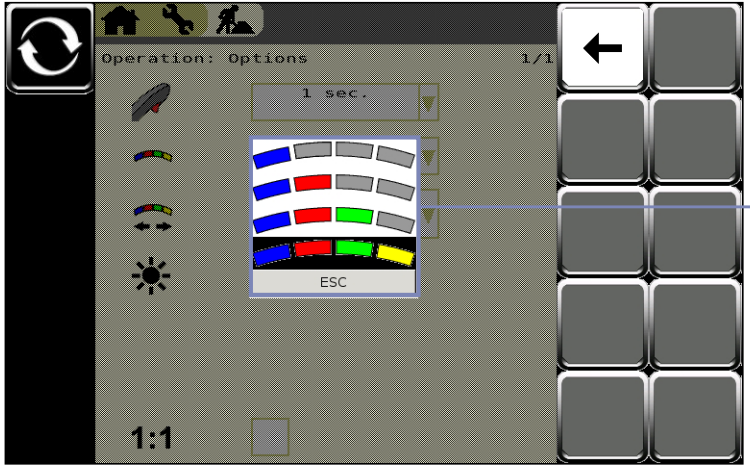
▶Set the **Trigger Time.**

▶Press the **Mode Number** field.



Mode Number settings

A maximum of 44 auxilary functions can be allocated to 11 IsoMatch Grip function buttons in 4 different work modes. Work modes are identified by the colour of the Mode Display LED (blue-red-green-yellow).



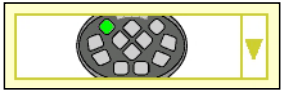
Number of modes

Tip: In case of limited function usage, it is more convenient to reduce the amount of modes.

Note: Changing the number of modes will remove already existing assignments.

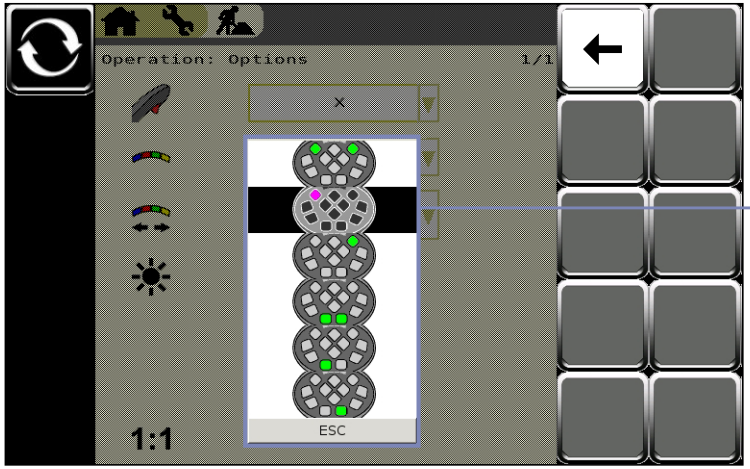
▶ Select the **Mode Number.**

▶ Press the **Work Mode Switching** field.



Mode Switching settings

Mode Switching defines how to switch between multiple modes. In total **4 buttons** can be configured for **Mode Switching** (the top two and the bottom two ones) depending on user preference. In case that there are more than 2 modes, the **direction of switching** can be chosen by using two **Mode Switching** buttons or one **Mode Switching** button in combination with the **Trigger**.

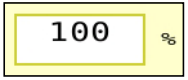


Mode Switching choice

Note: In combination with the **Trigger** the orientation of the **Mode Switching** button can be switched from left to right and the other way around.

▶ Select your **Mode Switching** choice.

▶ Press the **LED Intensity** field.



LED Intensity setting

After pressing the **LED Intensity** field, a numpad will pop up to insert a **LED Intensity** value.

LED intensity setting enables increasing or decreasing the brightness of the LED mode display and the background lighting of the push buttons.

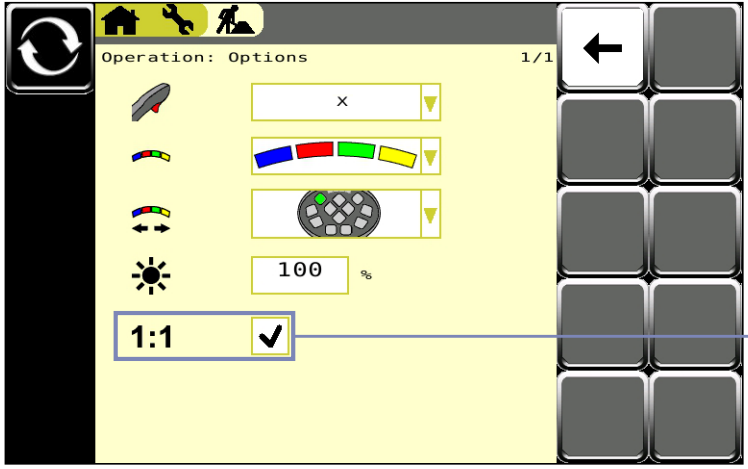
LED intensity percentage

▶Insert a valid **LED Intensity** value (10 - 100%).

▶Confirm the entry.

One-to-one Function Allocation

One-to-one Allocation Function enabled is the default setting, meaning that one specific machine function can be assigned to one specific auxiliary input only. Disabling the **One-to-one Allocation Function** facilitates allocating more than one machine function to a specific push button in a specific mode.



Note: It is advised to enable **One-to-one Allocation Function** for easy function mapping and for safety reasons (e. g. to avoid unintended functions).

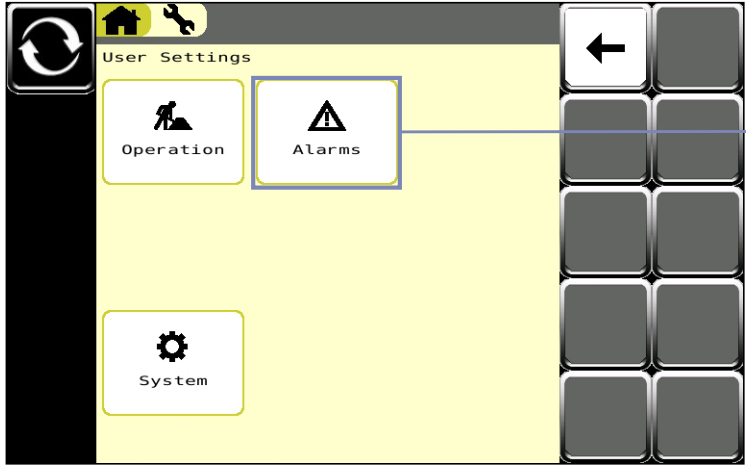
One-to-one Function Allocation

▶ Maintain **One-to-one Allocation Function** or choose for multiple functions allocation.

▶ Go back to **User Setting** screen.

Alarm Setting

The **User Setting** screen pops up and facilitates to set or edit **Alarm Setting**.

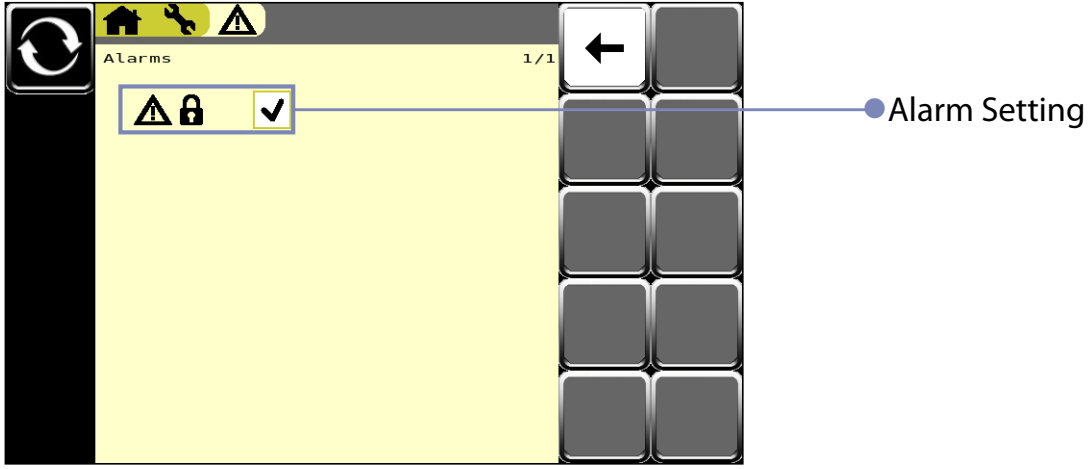


Alarm Setting button

▶Press the **Alarm Setting** button.

Alarm Setting screen

Any function button activity while the **Alarm Setting** option is activated (default setting) will cause an alarm when not in the work screen mode.

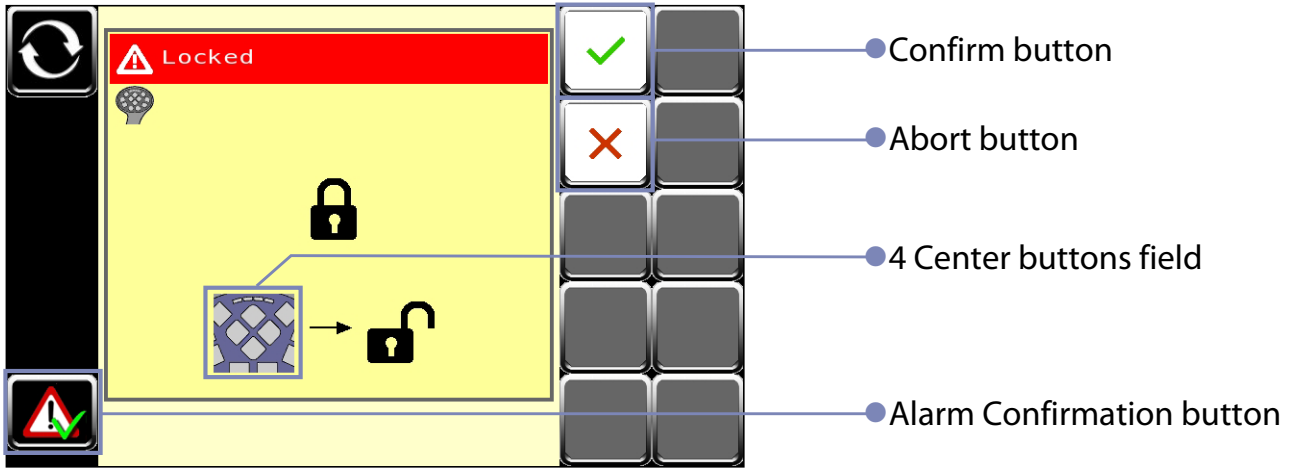


▶Maintain the **Alarm Setting** option activated.

Note: If the **Alarm Setting** option is disabled, no alarm will be triggered but the LEDs of the IsoMatch Grip will start to flash instead.

Alarm screen

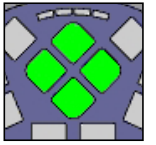
The **Alarm** is raised when buttons of the IsoMatch Grip are pressed when the it is not in work mode. When the **Alarm** screen pops up, it is indicating that any IsoMatch Grip push button activity is locked.



▶Press the **Confirm** button to move to the work screen and to release the lock.

▶Or press the **Alarm Confirmation** button to move to the work screen and to release the lock.

▶Alternatively the lock can be released by pressing the **4 Center Buttons** of the IsoMatch Grip directly. The chronological order does not matter, as long as all **4 Center Buttons** of the IsoMatch Grip are pressed successively. The process will be displayed in the **4 Center Button** field.



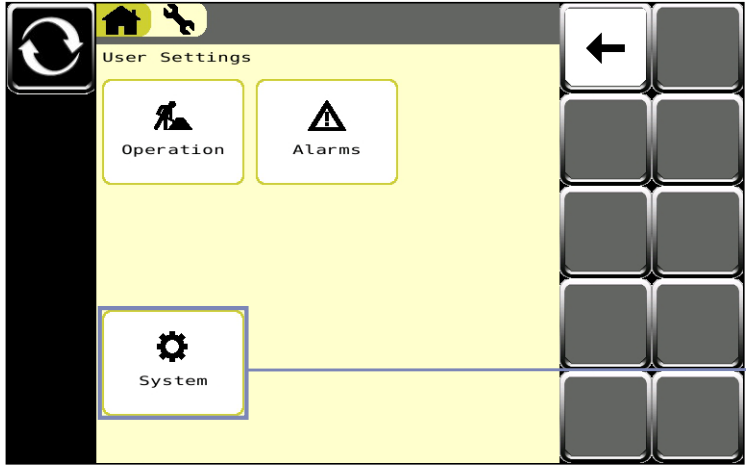
▶Press the **Abort** button to stay on the home screen without unlocking the IsoMatch Grip.

Note: Deactivated the **Alarm Setting** option will not show an **Alarm**. Instead of an **Alarm** the push button LEDs of the IsoMatch Grip will start to flash, indicating that you are operating in home screen mode and that due to that fact the push button activity is locked.

▶Go back to **User Settings** screen.

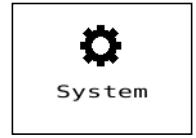
System Menu

The **User Settings** screen enables access to the **System Menu**.



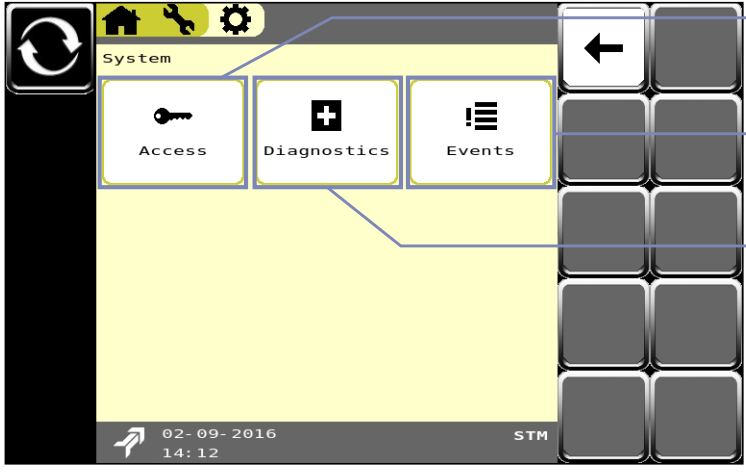
System Menu button

▶Press the **System Menu** button.



System Menu screen

The **System Menu** screen facilitates to run **System Diagnostics** and to show **Events**.

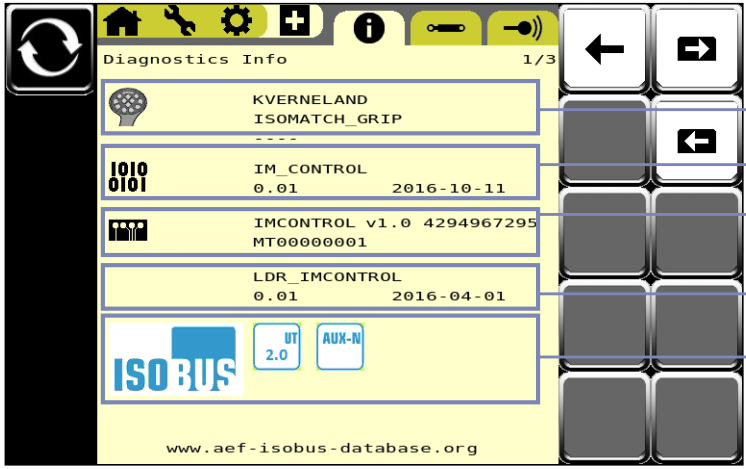


- Access button (for service only)
- Events button
- Diagnostics button

▶ Press the **Diagnostics** button.

Diagnostics Info screen

The **Diagnostics Info** screen pops up providing diagnostics information such as:

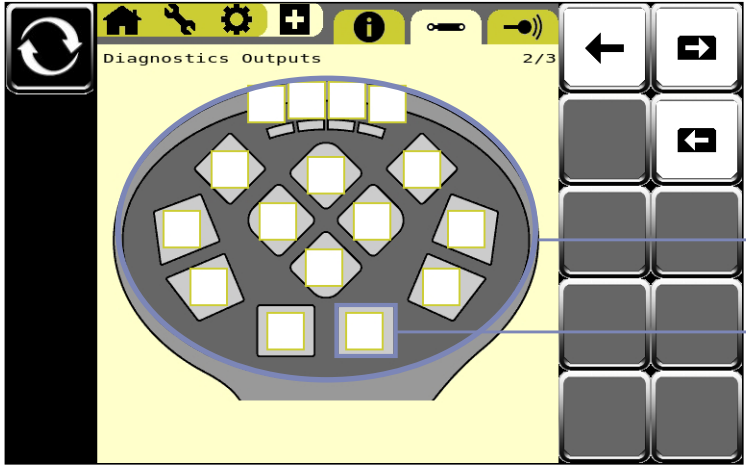


- Implement type
- Software version
- Model/Hardware version/Serial Number/Spare Part Number
- Boot Loader Software Version
- ISOBUS certification

▶ Press the **Next tab** button to get to the **Diagnostics Outputs** screen.

Diagnostics Outputs screen

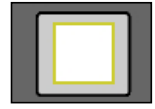
The **Diagnostics Outputs** screen enables to test the LED functionality of the push buttons and active mode indication.



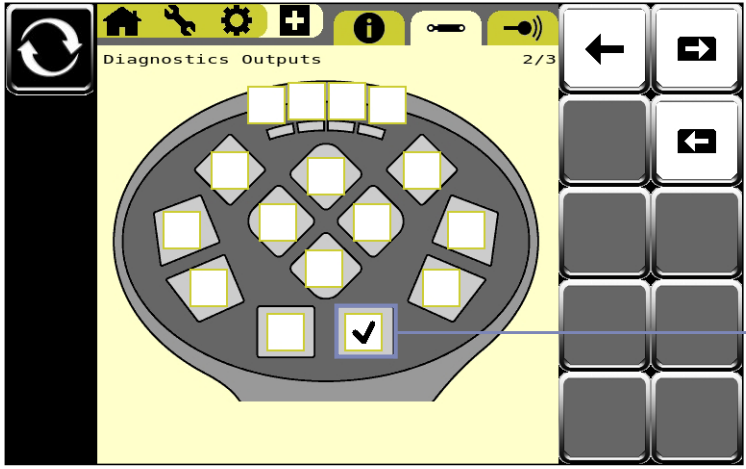
- LED functionality check mark fields
- LED functionality to be checked

To check the LED functionality of a push button, touch the corresponding check mark field on the screen.

▶ Press the **check mark** field.



If working properly the corresponding push button or mode indicator LED of the IsoMatch Grip will flash up.



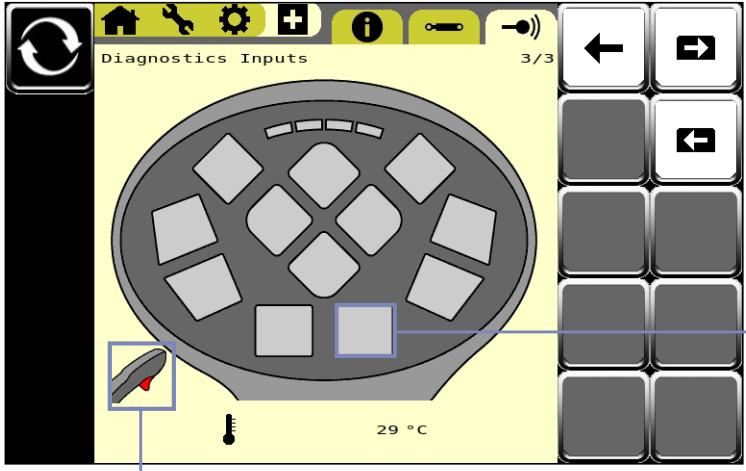
LED functionality checked

▶ To check the LED functionality of the other buttons, press consecutively check mark by check mark on the screen.

▶ Press the **Next tab** button to get to the **Diagnostics Inputs** screen.

Diagnostics Inputs screen

The **Diagnostics Inputs** screen enables to test the proper functionality of the push buttons and the trigger on the backside of the IsoMatch Grip.

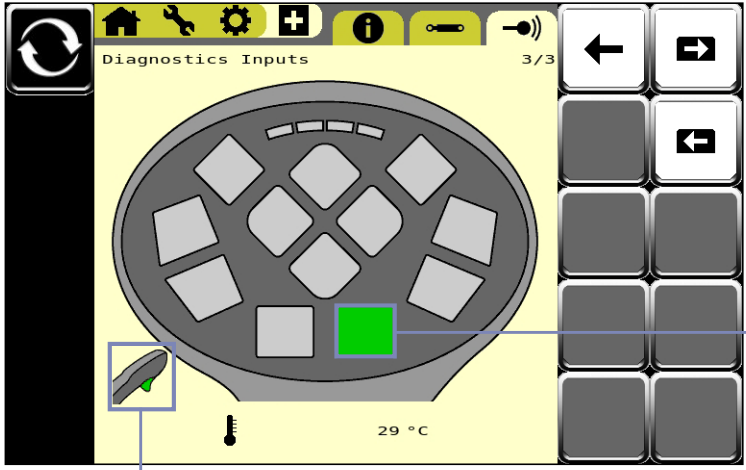


IsoMatch Grip push button functionality to be checked.

IsoMatch Grip trigger check display

▶ Press any push button or the trigger of the IsoMatch Grip to be checked.

If working properly the corresponding push button or trigger field on the screen will be marked green.



Checked IsoMatch Grip push button functionality

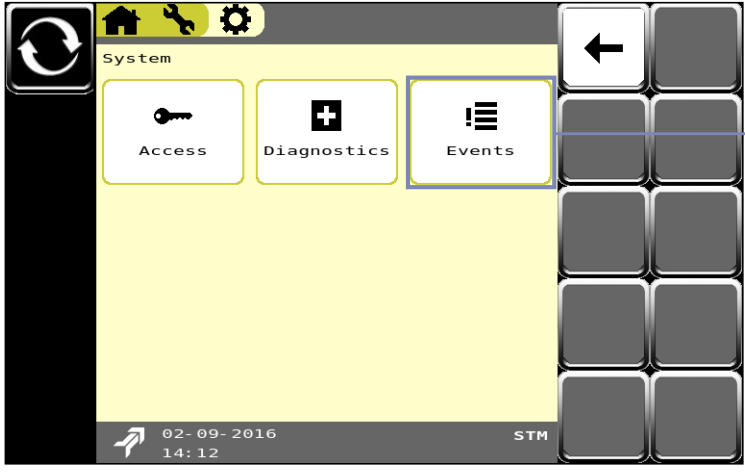
Checked IsoMatch Grip trigger functionality

▶Check the push button functionality of the other buttons by pressing them consecutively.

▶Go back to the **System settings** screen.

System Settings screen

The **System Setting** screen enables inspecting **Events**.

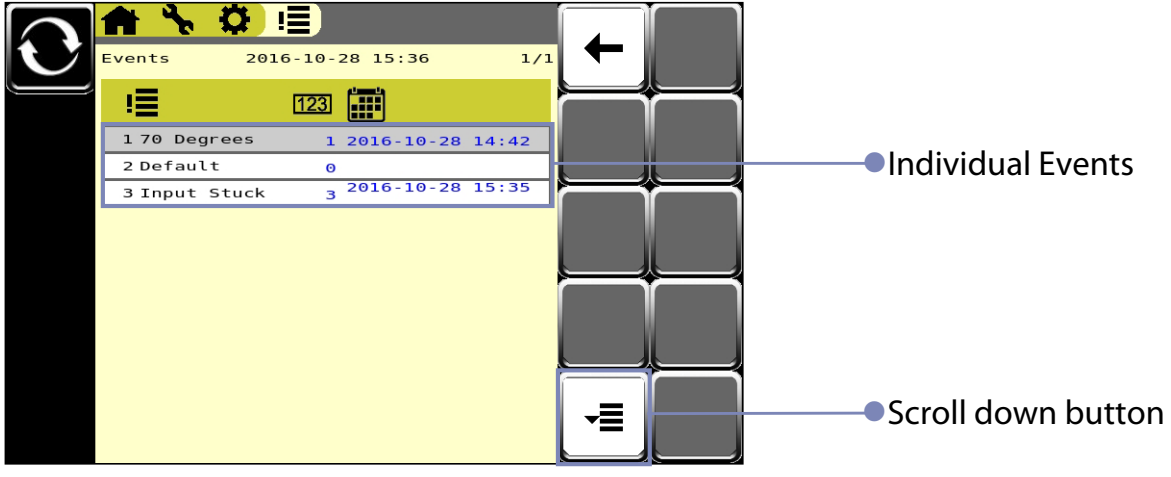


Events button

▶Press the **Events** button.

Events screen

The **Events** screen pops up providing events information in all IsoMatch Grip related matters arranged according to chronological order, date and time.

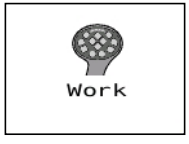


▶ If there are more events listed than visible, use the **Scroll down** button to watch them all.

Allocating functions to the push buttons

- When allocating auxiliary functions to the IsoMatch Grip push buttons it is advisable to run the IsoMatch Grip **Work screen** in the background while opening the **Configuration screen:**

▶ Press the **Work screen** button.

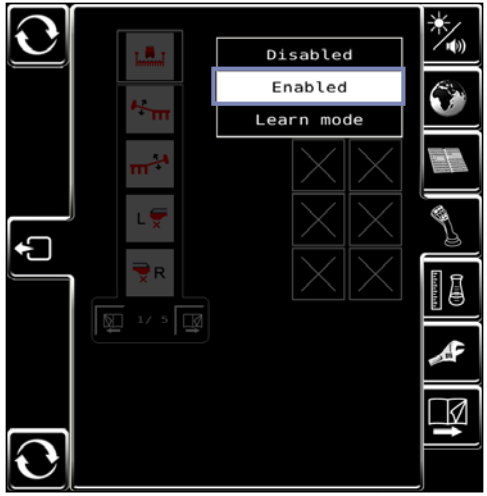


▶ Press on the **Configuration** button of the IsoMatch Tellus.

▶ Then press the **IsoMatch Grip** button to open the **IsoMatch Grip control screen.**

IsoMatch Grip control screen

The **IsoMatch Grip control screen** provides three **Auxiliary Control** states:



- Disabled
- Enabled
- Learn mode

To control functions of an implement with the IsoMatch Grip, the auxiliary control state has to be **Enabled**.

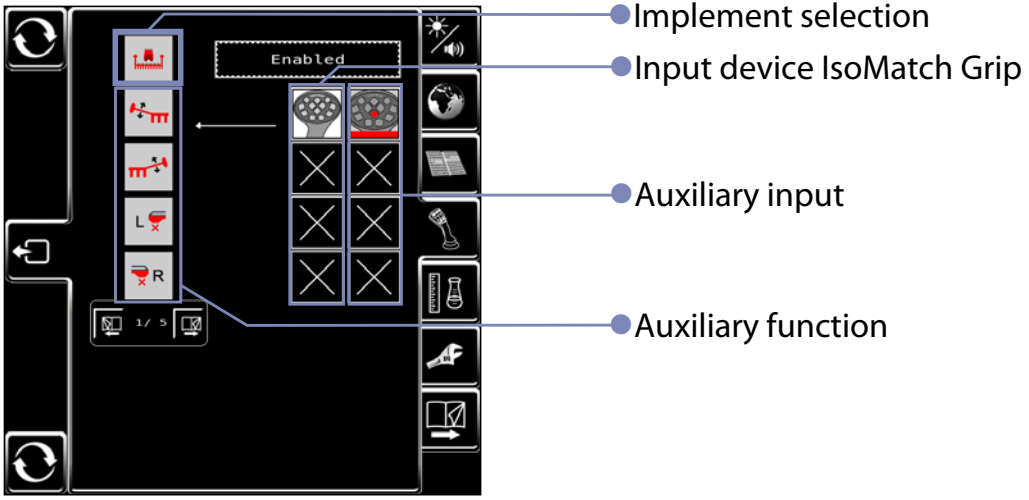
To control a function of an implement with the IsoMatch Grip, mapping has to be completed.

These mappings or assignments can be completed manually or semi-automatically by setting the auxiliary control state to **Learn mode**. This is described in more detail below.

The mappings are stored in the implement. The next time the implement is connected to an IsoMatch Grip with the same settings/configuration, the last used configuration will be restored. This mapping has to be done only once.

If the implement is used with another/new auxiliary input device or if the configuration is changed, the auxiliary mapping must be done again for this new auxiliary input device, which may result in overwriting the previous mapping.

Available input data items for display

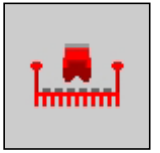


Info: If there is more than one **implement** connected, an **Implement selection** drop down list will show all available implements to choose from.

The same goes for multiple available **Input devices**.

Implement selection (Example)

- Selection of the implement to be configured for the IsoMatch Grip. Only implements which support auxiliary controls are listed.

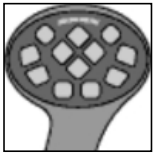


Auxiliary function (Example)

- A list with all auxiliary functions supported by the implement system is shown here.

Input device IsoMatch Grip (Example)

- Select the auxiliary control input device (IsoMatch Grip) to operate the implement.

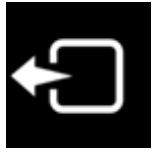


Auxiliary input (Example)

- The input is configured by assigning a button of the IsoMatch Grip to a certain implement auxilary function.

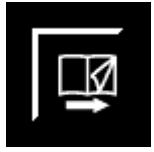
Main screen button

▶Return to the Configuration screen.



Next page button

▶Button to select the next auxiliary functions where the implement provides more than 4 auxiliary functions.



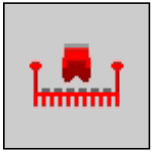
Previous page button

▶Return to the previous set of auxiliary functions.

Manually allocating functions to the buttons

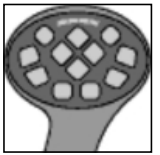
▶Select an **implement** (Example).

●An input list with all available auxiliary functions will appear below.



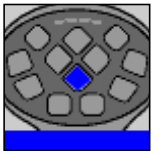
▶Select an **auxiliary function** (Example).

▶Select an **auxiliary input device** (Example).



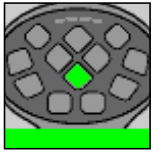
▶Select an IsoMatch Grip button out of the list of 44 options. (Example).

●**Note!** The blue colour indicates that this auxiliary button function is assigned on the IsoMatch Grip when working in the **blue LED mode**. Each input can be assigned to a different function in each mode, so the number of uniquely assignable inputs equals the number of modes times the number of assignable buttons.

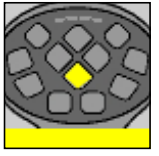


- **Note!** The red colour indicates that this auxiliary button function is assigned on the Iso-Match Grip when working in the **red LED mode**.

- **Note!** The green colour indicates that this auxiliary button function is assigned on the Iso-Match Grip when working in the **green LED mode**.



- **Note!** The yellow colour indicates that this auxiliary button function is assigned on the IsoMatch Grip when working in the **yellow LED mode**.

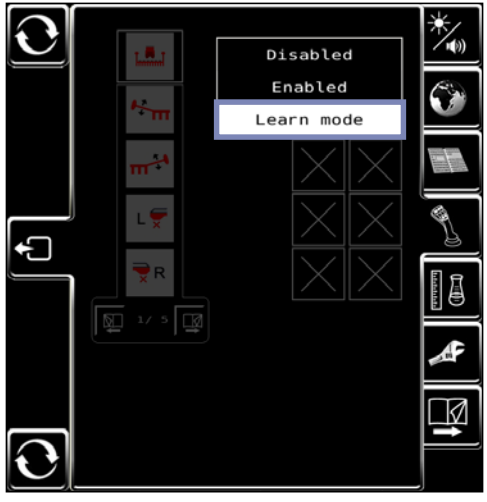


- **Note!** When an arrow appears pointing to the corresponding auxiliary function the assignment has been made successfully.

▶ Repeat this procedure to allocate auxiliary functions to the other buttons.

Allocating functions to the buttons in Learn Mode

The **IsoMatch Grip control screen** provides **Auxiliary Control Learn Mode**.

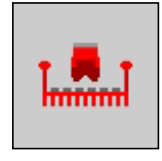


Auxiliary Control Learn Mode allows the operator to assign an auxiliary function to an auxiliary input by pressing the respective input.

▶Select **Learn Mode**.

Learn mode

▶Select an **implement** (Example).

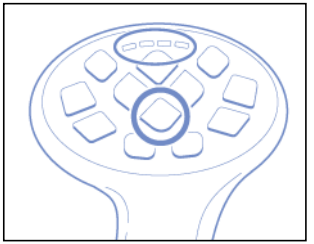


▶Select an **auxiliary function** (Example).

▶Select an **auxiliary input device** (Example).

▶First check if the IsoMatch Grip is operating in the desired mode. When required, switch the mode with the predefined **Mode Switching** button of the key pad.

▶Then select an **auxiliary input** by pressing the respective push button (Example) on the IsoMatch Grip.



●The assignment has been made successfully.

▶Repeat this procedure to allocate auxiliary functions to the other buttons.

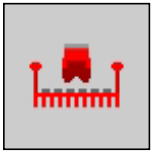
Allocating multiple functions to one button

Multiple functions from one or more implements can be assigned to one specific button.

Note! Multiple function assignments are applicable only with deactivated **One-to-one Function Allocation** ➲One-to-one Function Allocation.

Safety precaution! Multiple functions assigned to one button entails the risk of accidentally or mistakenly activating functions due to the fact that the assigned functions are not always displayed in the **Work** Screen.

▶Select an **implement** (Example).



▶Select an **auxiliary function** (Example).

▶Select an **auxiliary input device** (Example).

▶Select an **auxiliary input** (Example).

●The assignment has been made successfully.

▶Now select a second **implement** (Example).

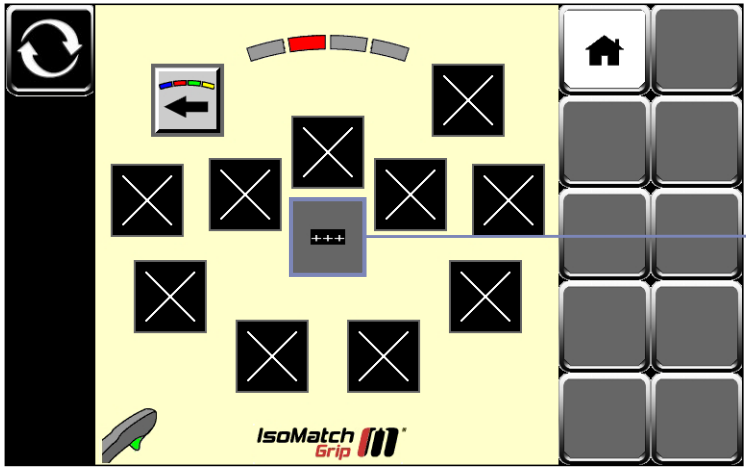
▶Select an **auxiliary function** (Example).

▶Select an **auxiliary input device** (Example).

▶ Select the same **auxiliary input** that is already used for the first auxiliary function assignment (Example).

● The second assignment has been made successfully.

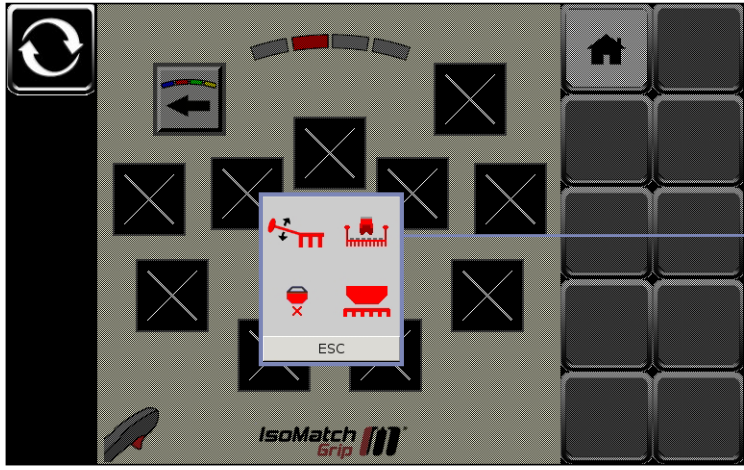
The **Work** screen indicates a multiple auxiliary functions allocation to one push button.



Multiple allocated auxiliary functions

▶Press the button.

The **Work** screen now displays the selected implements and the associated auxiliary functions allocated to the specific push button.



Display window of multiple implements and associated allocated auxiliary functions.

▶Press **ESC** to release the **Work** screen.

ESC

Troubleshooting

Technical failure: What next?

When technical failure occurs

- ▶ **stop operation!**
- ▶ **refer to troubleshooting advices** to solve the problem!
- ▶ when the problem persists, **contact your dealer!**

Continuing to operate when technical failure occurs may lead to **damage to the terminal**!

During installation, welding and maintenance work, **disconnect power supply from the battery. The terminal may otherwise get damaged.**

Troubleshooting IsoMatch Grip

Failure	Possible cause	Solution
Connected implement does not appear in the Implement Selection.	Implement is not properly connected.	▶Check cable connections.
	Implement is not ISOBUS compatible.	▶Check ISOBUS compatibility of the implement.
Alarm warning: UT version 3 or higher is required.	No UT version 3 or higher is found.	▶Check with the help of the ➲**Presetting screen** the UT version (not selectable on IsoMatch Tellus GO and PRO). ▶Reboot the terminal after changing UT version.
Alarm warning: No UT instance 1 (0) found.	UT instance 1 (0) is required.	▶Check with the help of the ➲**Presetting screen** the UT instance. ▶Reboot the terminal after changing UT instance.

Failure	Possible cause	Solution
IsoMatch Grip does not appear in the Application Selector.	IsoMatch Grip cable is not properly connected to the terminal.	▶Check cable connection to the terminal.
	Protective cap not placed.	▶Check placement of the protective cap.
	IsoMatch Grip cable damage or break.	▶Check cables for damage on outside or cable break. If damaged or broken, contact your dealer.
No input entry possible/ input is stuck.	Push button malfunction.	▶Check with the help of the Diagnostics Input screen the push button functionality.
Alarm warning: Input is stuck.	Push button malfunction or push button is broken.	▶Check with the help of the Diagnostics Input screen the push button functionality.
	Push buttons were pressed during start up.	▶Release push button.

Failure	Possible cause	Solution
	Push button activity is locked by alarm.	▶Release the lock ➲**Alarm Warning screen**. ▶Deactivate Alarm Warning.
LEDs are not lighting up	IsoMatch Grip cable is not properly connected to the terminal.	▶Check cable connection to the terminal.
	IsoMatch Grip cable damage or break.	▶Check cables for damage on outside or cable break. If damaged or broken, contact your dealer.
	LED disfunction.	▶Contact your dealer.
Push button functionality test fails.	Push button malfunction.	▶Check with the help of the Diagnostics Input screen the push button functionality. ▶Contact your dealer.
LED functionality test fails.	LED malfunction.	▶Contact your dealer.

Failure	Possible cause	Solution
Alarm warning: Operating temperature is higher than 70 degrees Celsius.	IsoMatch Grip is overheated by insolation or heat accumulation.	▶Switch off the IsoMatch Grip and leave it to cool down. Avoid direct sun exposure.

Cleaning and storage

This chapter provides instructions for the cleaning and storage of the product/machine.

Cleaning the product

▶Keep the product clean in all conditions.

▶Clean the product with a dry or slightly wetted cloth.

Cleaning cables and connectors

▶Do not clean cables and connectors with water.

▶Clean the cables and connectors with a dry piece of cloth.

Storing the product

▶When the product/machine is not mounted on the tractor, store it in a dry and clean place. Obey the storage ambient temperature range.

Disposal

When the functional life of this product has expired it needs to be disposed in an Eco friendly way.

▶ Dispose the device parts in the correct way.

▶ Obey local rules.

Plastics

▶ Dispose plastics as normal waste or in accordance with local rules.

Metal

▶ Send metal to a metal recycling facility.

Printed circuit board

▶ Send electronics to a specialised recycling facility or send it back to the manufacturer, who will dispose it in an environmentally friendly way.

EC-Declaration of Conformity

(according to Directive 14/30/EU)

We:

Kverneland Group Mechatronics B.V.
Hoofdweg 1278
NL-2153 LR Nieuw Vennep
The Netherlands

Declare, solely under our own responsibility, that the following product (products):

ISOMATCH GRIP and accessories

complies to the following relevant parts of the directive:

EMC Directive 14/30/EU - by applying the relevant parts of the following (harmonised) standards:

EN-ISO 14982: 2009 Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria

When applicable, our systems comply to Directive 14/53/EU by selection of CE-marked components.

Sanne de Voogd

General manager and authorised representative

Nieuw Vennep, 1 September 2016

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