



GeoNave 31

Quick Reference

Spraying



System Components

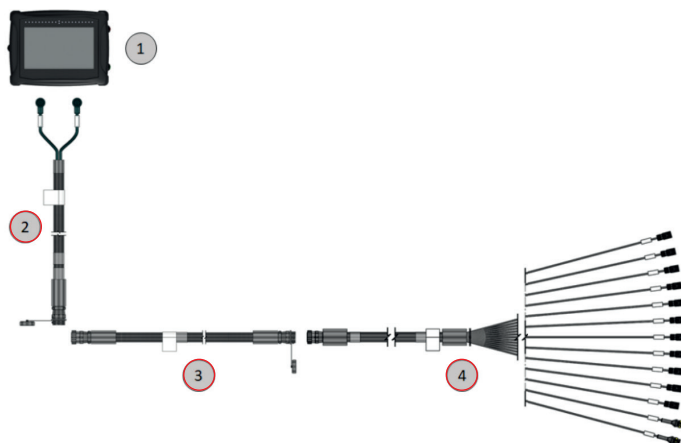
The GeoNave system with license ISO 30 has the following components shown in the image below.

Display Installation



Item	Description
1	GeoNave display
2	GNSS antenna cable
3	GNSS antenna with magnetic base
4	Accessory for fixation of the GNSS antenna with double sided adhesive pad
5	Display power cable
6	Battery connection cable with fuse holder
7	Trio of suction cups of display fixation set
8	Articulated arm of display fixation set
9	Pendrive

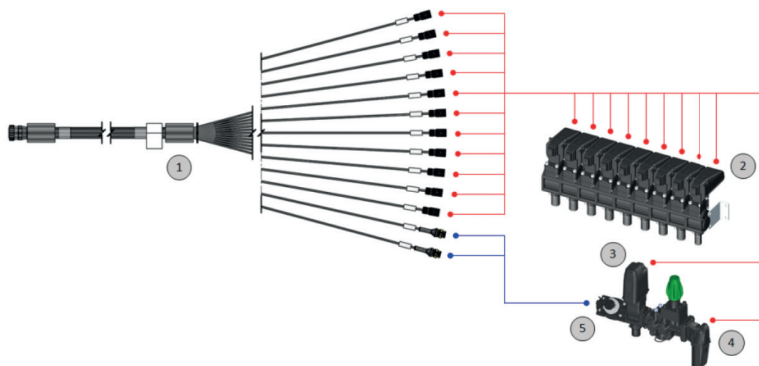
Connecting the Monitor to the Spray Cable



Item	Description
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- ① GeoNave display
- ② Sprayer cabin cable *(to be ordered separately)*
- ③ Sprayer cable extender, if necessary *(to be ordered separately)*
- ④ Sprayer implement cable *(to be ordered separately)*

Connecting the Spray Cable to the Implement



Item	Description
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- ① Sprayer implement cable
- ② Control of up to 9 section valves
- ③ Regulation valve
- ④ Main control valve
- ⑤ Flowmeter

Warranty Terms & Conditions

The european importer Tecomec S.r.l. guarantees that Agres GeoNave labeled products are covered against manufacturing defects during the following periods.

Warranty Periods

- Finished products – 2 years from Invoice date to end user
- Warranty on parts or reparation made during warranty period will end at the end of initial warranty period.

Product Warranty Terms

1. The warranty period starts at the date of purchase. The guarantee will be applied upon presentation of the purchase invoice. The manufacturer, acting through the sales and technical assistance network, shall replace free of charge any defective component. The warranty does not modify the purchaser's rights as established under legislation governing the consequences of defects in the product.
2. The technical staff will intervene as soon as possible within the time limits granted by organizational arrangements.
3. Any claim under the warranty, must include details of invoice or receipt showing the date of purchase.
4. The manufacturer excludes consumables and parts subject to normal wear and tear.
5. The guarantee excludes intervention for updating and improvement of product.
6. The warranty does not cover the tuning maintenance interventions which should occur during the period of guarantee.
7. Any damage caused during transport must be reported immediately to the carrier or warranty will be void.
8. The warranty does not cover any damage, direct or indirect, caused to people or things
9. The warranty is void in the event of:
 - Obvious lack or wrong installation or maintenance.
 - Use of not original spare parts or accessories
 - Interventions carried out by non-authorized personnel.

Returning Goods

To have an effective guarantee, it is necessary to comply with the following requirements:

- The product must be delivered in the original packaging and with all the accessories (if applicable) in good condition.
- Provide a copy of the purchase invoice.
- Attach a letter in writing (from the distributor or user) explaining in detail the equipment failures and / or anomalies, mentioning the device serial number.
- Get the official approval from the seller before returning any goods.

Safety instructions

This section covers the recommended safety instructions for the correct and safe use of the GeoNave system.

Always follow the instructions highlighted on attention and information warnings according to the descriptive examples presented below. The information provided in these warnings aim to minimizing the risk of injury and material damage.



Warning alert: Informs the reader of an important security issue related to the GeoNave system use. Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.



Attention Alert: Informs the reader of an important security issue related to the GeoNave system use. Possible warned accidents, if not avoided, can result in property damage and serious bodily injury, including death.



Information Alert: Provides the reader relevant information regarding the guide, such as links between topics and screen types. Must be read!

Recommended Use

The following are the recommended instructions for the correct and safe use of the system Geonave, informing the user of the main risks of its misuse.



The system Geonave should only be used in agricultural machinery, such as tractors, sprayers, seeders, fertilizers, subsoilers, off-road trucks, among others.



It is YOUR responsibility to read and understand the safety sections in this guide before operating this vehicle. Remember that YOU are the key to safety. Good practices not only protect you, but also the people around you.



Check with the agricultural machinery manufacturer for the correct installation of the system Geonave. Changes not recommended by the machinery manufacturer may cause failures in the operation and safety of the machinery.



The GeoNave system must be handled by user aware of its correct operation, possess proper driver license according to country regulations, aware of machinery operation and agricultural working field configuration. Incorrect handling can cause bodily injury, malfunction and material damage.



Do not use the system during lightning storms. There is a great risk of electric discharges reaching the system, with possible physical damage to people and equipment.



This safety information only relates to Agres GeoNave equipment and does not replace other usual safe work practices.



Make sure the vehicle power is off when you are connecting system components.



Ensure power is removed from the Agres GeoNave equipment prior to maintenance or repair of the vehicle or implements.



Incorrectly connected power can cause severe injury and damage to people or the equipment.



Ensure appropriate precautions are taken prior to handling any hazardous substances. Always read the Material Safety Data Sheet prior to commencing work.



During Spraying Simulation and Spraying Diagnosis, the machine will become operational. Take all necessary precautions to ensure safety. Failure to do so may result in serious injury or death.



Material will be dispensed during Spraying Simulation and Spraying Diagnosis. Make sure that the implement is safe to operate.



Always check that any suspended vehicle attachments are lowered to the ground before beginning repair or maintenance work on a vehicle.



Vehicle and implement parts can become hot during operation and may be under pressure. Refer to vehicle manuals.



Wear appropriate protective clothing for the task being undertaken and conditions.



Do not operate equipment around explosive equipment or supplies.



Agres GeoNave cannot guarantee the accuracy, integrity, continuity, or availability of the GNSS signal.



Agres GeoNave helps guide the field operation, but the operator remains in charge and must be alert and in complete control of the vehicle at all times. The operator is ultimately responsible for safe operation of this equipment.



Agres GeoNave equipment must not be used by an operator affected by alcohol or drugs. Seek medical advice if using prescription or over-the-counter medication.

The following user actions are not recommended.

- Equipment use outside stipulated recommendations of this guide;
- Equipment use combined with accessories from other manufacturers;
- Open or disassemble parts of the equipment using tools, unless expressly authorized by Support and Technical Assistance team;
- Modify system components, such as harnesses and their connectors;
- Equipment use with easily identifiable damages or faults.

Cleanliness and Conservation

The user must follow the correct instructions for cleaning and maintaining the system Geonave, to ensure that its integrity and reliability is maintained as long as possible.



Do not use abrasive products to clean the monitor screen. Products with ammonia can damage the glass that makes up the screen.



Do not press on the screen with a sharp item, such as a pencil. You may damage the surface of the screen.



To clean the monitor screen, use a cotton flannel lightly moistened with 50% isopropyl alcohol.



To clean the other components of the system, use a soft, dry cloth, or slightly moistened with water and mild soap.



Do not spray any cleaning liquid directly on the display housing or GNSS antenna.



Do not immerse the display or GNSS antenna in any type of liquid. Infiltrations can occur and compromise electronic circuits, with risk of fire and serious accidents.



Keep all system components clean after use, thereby increasing their service life.

Disposal of Components

In the event of the destruction of any of the system components Geonave, the following disposal recommendations are strongly requested to be followed.



Dispose of the display, antenna, cables and any other parts of the system in accordance with the country's current regulations.



Incorrect disposal, especially when associated with household waste, can generate serious problems, such as the release of poisonous gases in case of burning of raw materials, in addition to contamination of the soil and watershed.

Declaration of Conformity

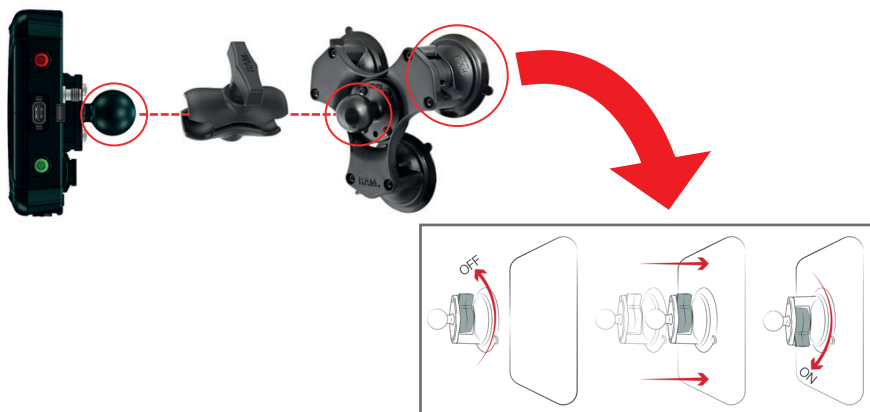
Hereby, Agres declares that the GeoNave field computer is in compliance with the EMC Directive 2014/30/EU, RED Directive 2014/53/EU, RoHS Directive 2011/65EU and their subsequent modifications and additions.

The full text of the EU declaration of conformity is available at the following internet address: www.agres.com.br/geonave



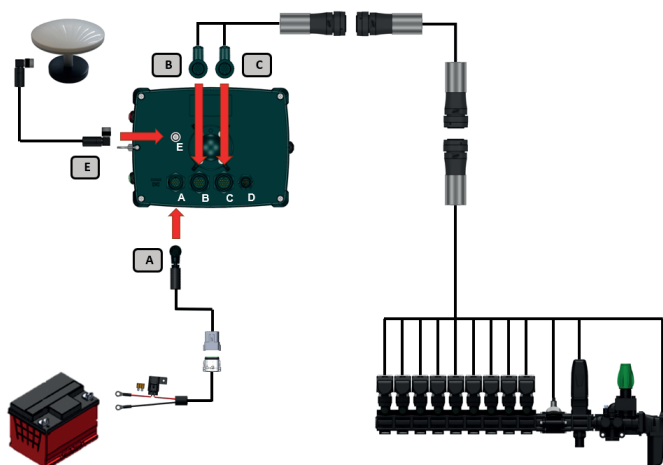
01

Fix the Monitor



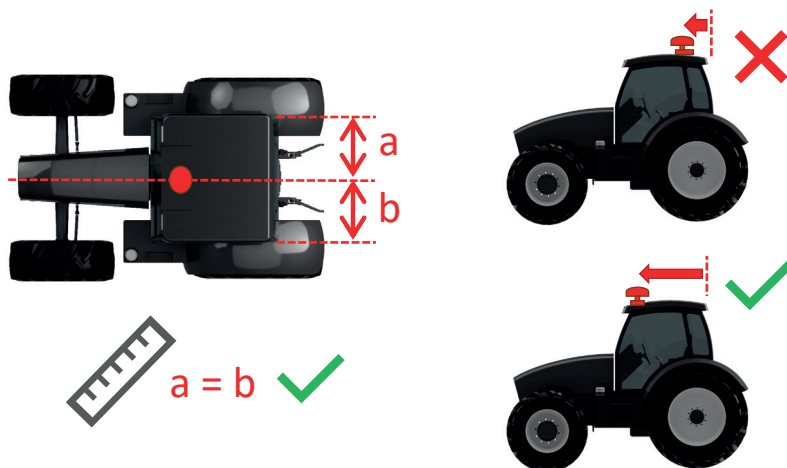
02

Connect Cables



03

Install GNSS Antenna



04

Switching ON and OFF



05

Select Language



Advanced Settings

Parameter	Value
Brightness	4
Time Zone	UTC -3:00
DST	No
Language	English
Demonstration	Disabled
Terrain Compens.	Not Available
Colors Scheme	Automatic
GPS Signal Filter	Enabled



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Add and Remove Language



.LNG file



Memory Management

Parameter	Value
Used Memory	10.0 %
Fields	4
Events	Manage
Settings	Manage
Error Log	Manage
Languages	Manage
Input Maps	Manage
Delete Fields	Delete All



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Configure Work



Job Configuration

Parameter	Value
Guide Pattern	Straight
Limit Pattern	External - Full Boom
Implement	5.000 m
Hitch Type	3-point Hitch (Fixed)
Implement Sensor	Configure
Dist. Implement	5.5 m (back)
Lateral Offset	0.0000 m
Overlap	0 cm

Navigation buttons: Back, Up, Down, Save (highlighted with a red box).

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Configure Implement



Spray Configuration

Works	☒
Boom	☐
Valves	☐
Sensors	☐
Tank	☐
Diagnosis	☐

Navigation buttons: Back, Up, Down, Confirm (highlighted with a red box).

For further information, please see the user manual.

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Configure Boom



Boom Configuration	
Parameter	Value
Nozzles Number	55 (27.50 m)
Spacing Nozzles	50.00 cm
Sections Number	9
Nozzles Section 1	3 (1.50 m)
Nozzles Section 2	4 (2.00 m)
Nozzles Section 3	6 (3.00 m)
Nozzles Section 4	8 (4.00 m)
Nozzles Section 5	13 (6.50 m)
⋮	

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Configure Valves



Valve Configuration	
Parameter	Value
Main Valve	3 ways
Valve Section	2 way
Reg. Valve	3 ways
Valve Opening	3.0 s
Reg. Valve Time.	7.0 s
Min. Rate Speed	Disabled
Minimum Pressure	Disabled
Minimum Flow	Disabled

For further information, please see the user manual.

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Configure Flowmeter



Sensor Configuration

Parameter	Value
Flow Meter	1405 pulses/L
Calib. Flowmeter	Calibrate
Implement Sensor	Configure

Navigation icons: Back, Up, Down, and Edit (pencil icon).

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Configure Tank



Tank Configuration

Parameter	Value
Tank Capacity	3000 L
Level Alarm	100 L

Navigation icons: Back, Up, Down, and Edit (pencil icon).

For further information, please see the user manual.

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Configure Work – Fixed Rate



Editing Work

Parameter	Value
Work Name	NEW NOZZLE
Nozzle Flow	1.2 L/min
Nozzle Pressure	3.0 bar
Rate Type	Fixed
Target Rate 1	100.0 L/ha
Target Rate 2	150.0 L/ha

Navigation buttons: Back, Up, Down, Save.

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Import Guide / Variable Rate / Boundary Map



Shapefile files



Input Map

Guide Maps	☒
Variable Rate Maps	☐
Boundary Map	☐

Navigation buttons: Back, Up, Down.

For further information, please see the user manual.

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Configure Work – Variable Rate



Editing Work

Parameter	Value
Work Name	NEW NOZZLE
Nozzle Flow	1.2 L/min
Nozzle Pressure	3.0 bar
Rate Type	Variable
Input Maps	Variable Rate Map 03
Map Parameter	Area

Navigation icons: back, forward, up, down, and a save icon (pencil and paper).

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Simulate Spraying



Spraying Simulation

Target Rate: 120.0 L/ha

Speed: 10.0 km/h

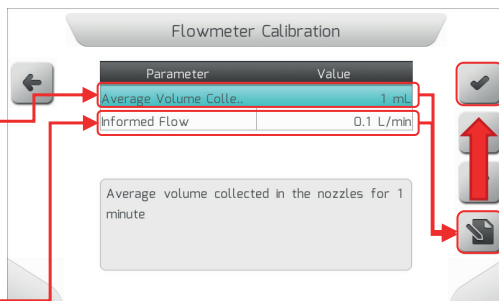
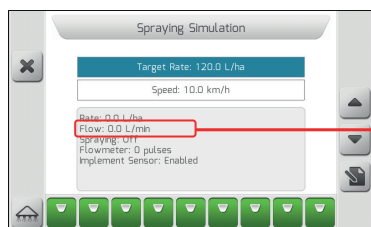
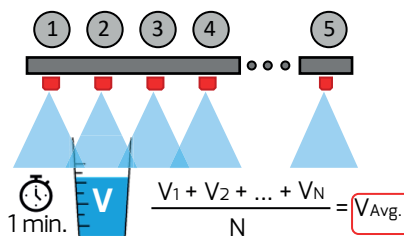
Rate: 0.0 L/ha
Flow: 0.0 L/min
Spraying: Off
Flowmeter: 0 pulses
Implement Sensor: Enabled

Navigation icons: close (X), back, forward, up, down, and a save icon (pencil and paper).

Visual representation of the spray application system, including a nozzle, a pump assembly, and a row of nozzles. Red lines connect the simulation parameters to the corresponding physical components: Target Rate to the pump, Speed to the pump, Rate/Flow to the nozzle, and Spraying status to the nozzle assembly.

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Calibrate Flowmeter (if required)



18

Start Work



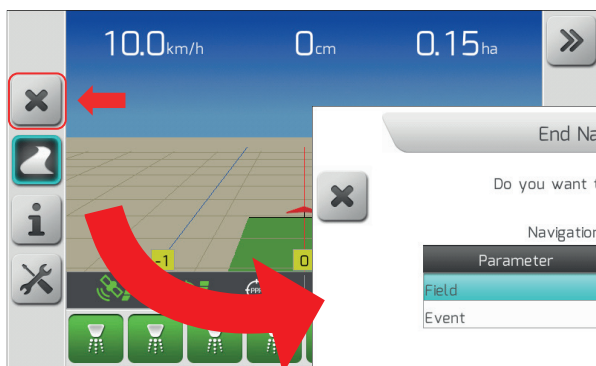
Configuration Summary

Parameter	Value
Field	FIELD 1
Event	EVENT 1
Guide Pattern	Straight
Operation	Spraying
Operator	JOHN SMITH
Culture	SOY
Machine	Self-propelled
Implement	27.500 m (55 nozzles)



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Finish Work



End Navigation?

Do you want to end navigation?

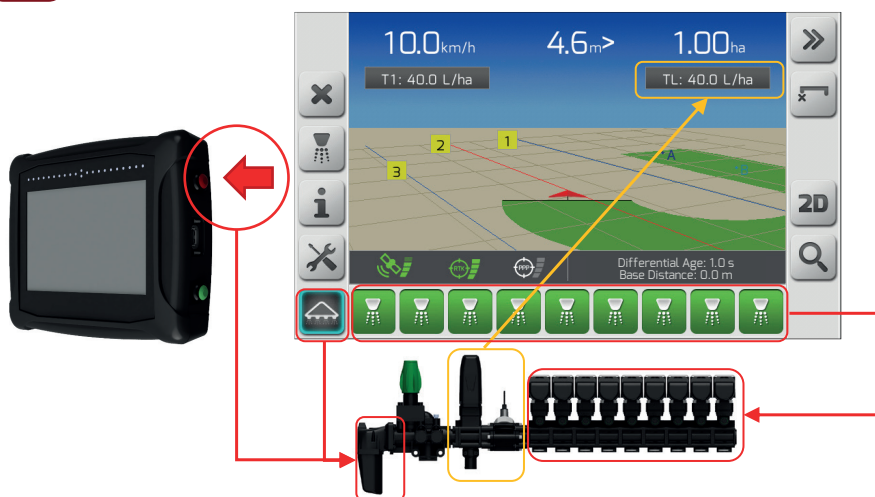
Navigation Information:

Parameter	Value
Field	FIELD 1
Event	EVENT 1



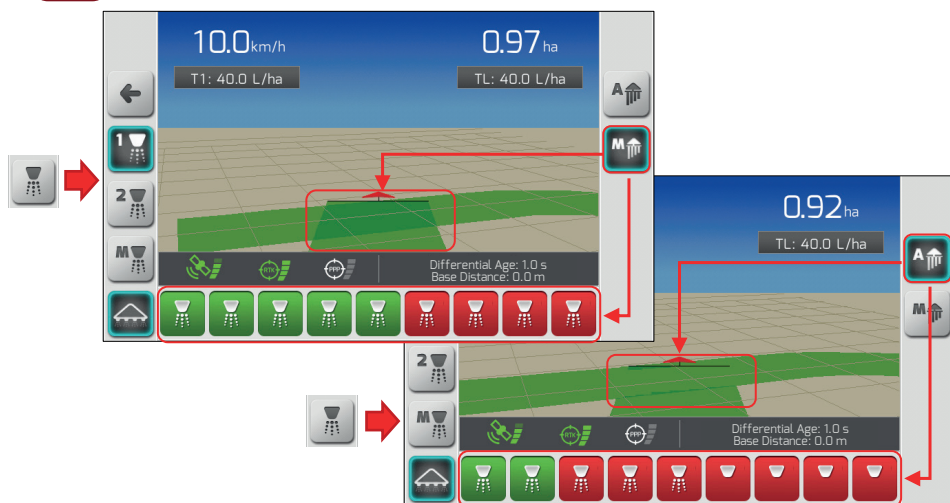
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Navigation Screen



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Select Manual/Automatic Section Control



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Select Fixed Rates 1 and 2



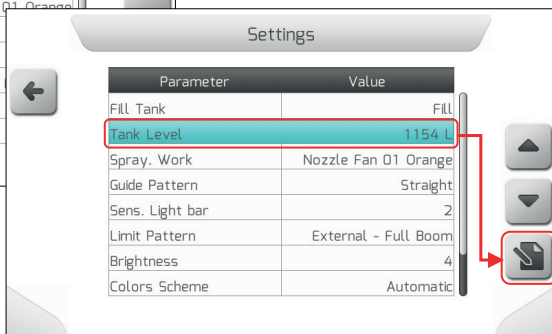
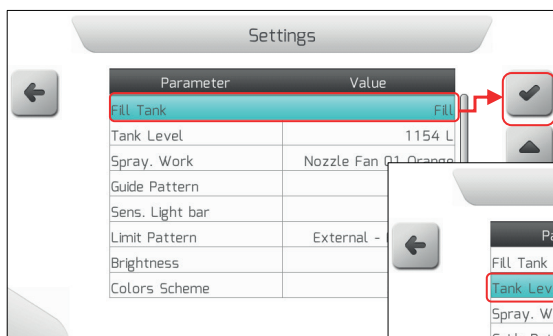
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Select and Adjust Manual Rate



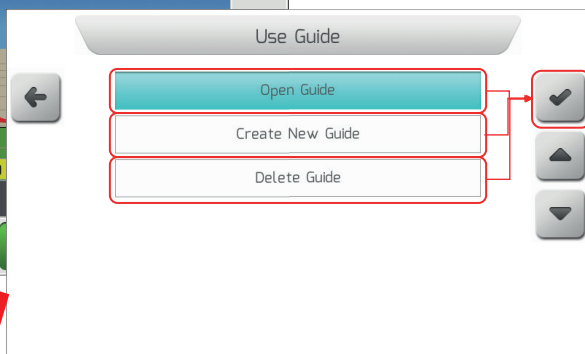
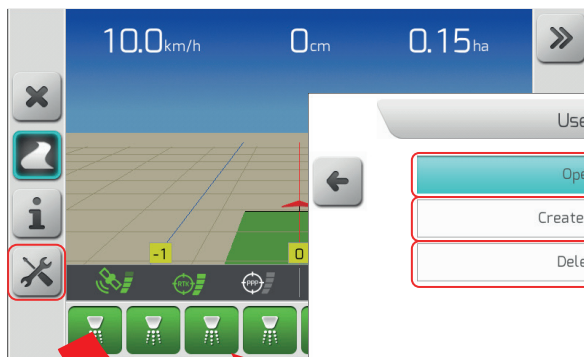
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Complete and Change Tank Level



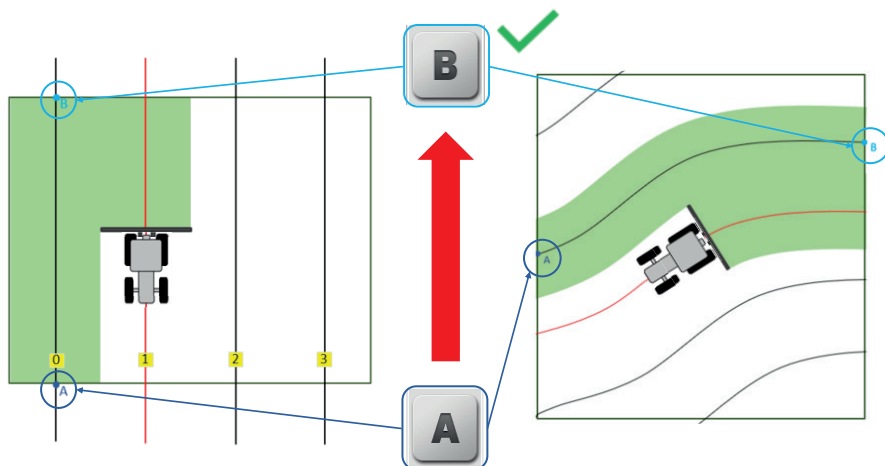
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Manage Guides



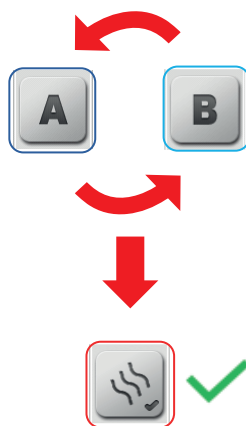
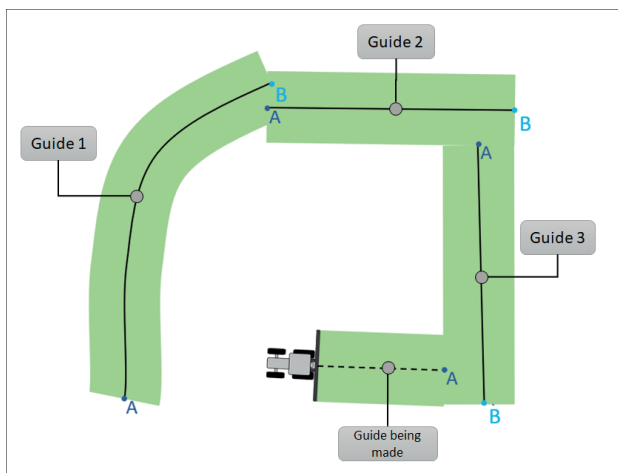
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Create Guides – Straight and Curve



27

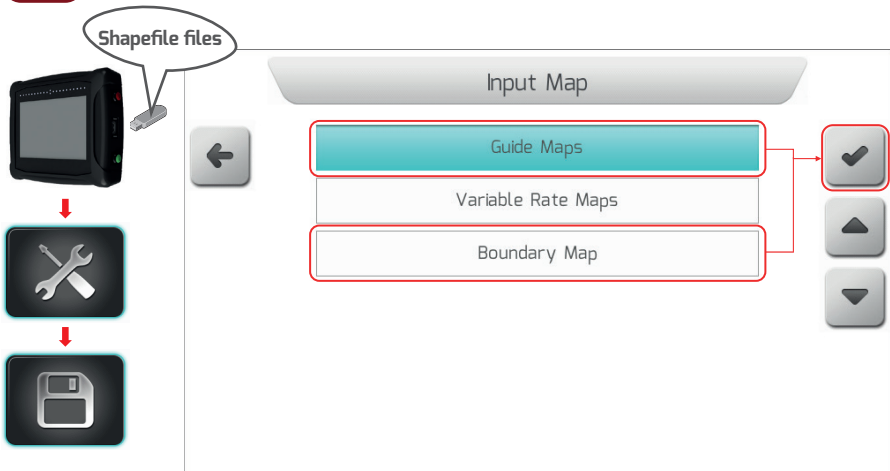
Create Guides – Free



For further information, please see the user manual.

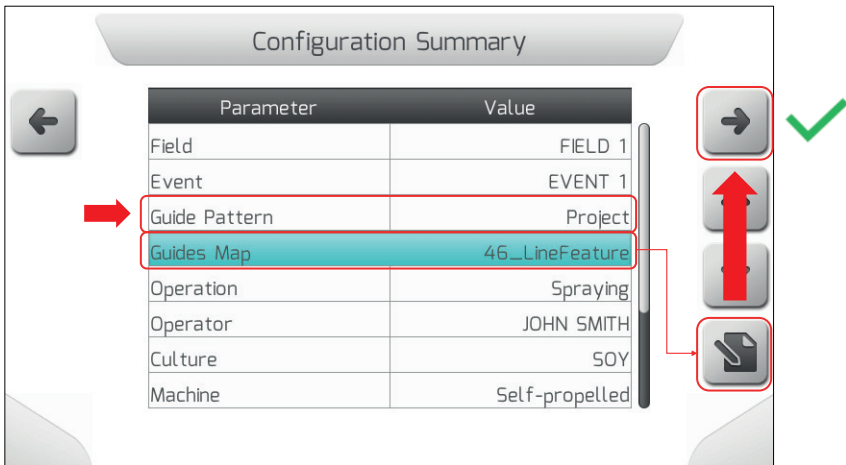
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Import Guide Projects / Boundary Map



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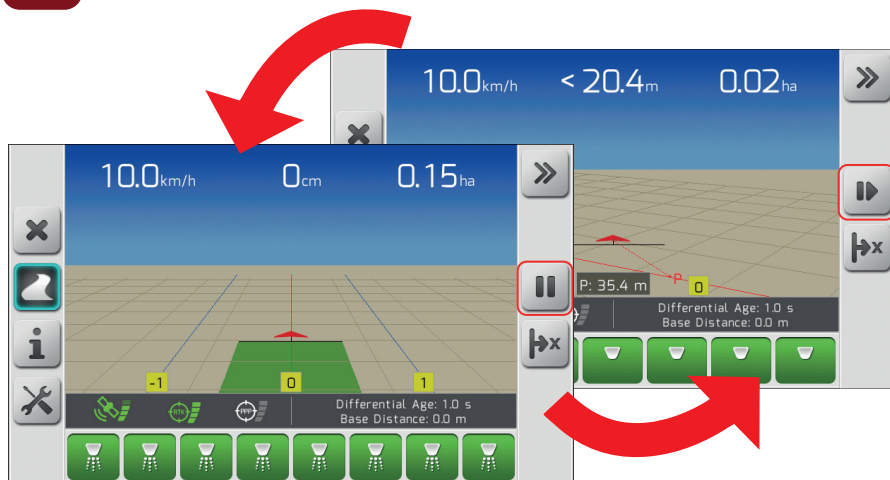
Use Guide Projects



For further information, please see the user manual.

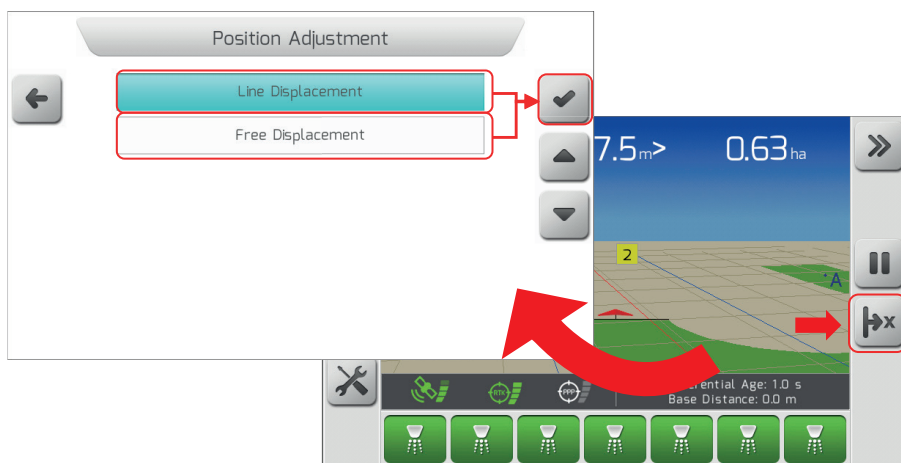
30

Pause and Resume Navigation



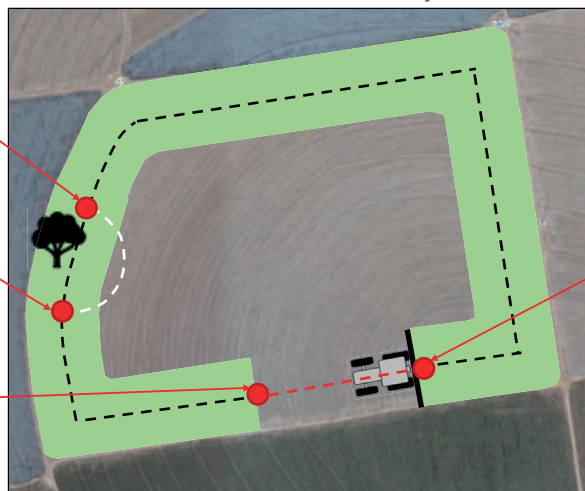
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Adjust Position



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Create a Boundary



To access User Manual and Conformities Declaration please scan:



en.agres.com.br/geonave



Manufacturer:

Agres Sistemas Eletrônicos S/A
Rua Jaguariaíva, 67 – 83327-076 Pinhais (PR) – Brazil



European Importer:

TECOMEC S.r.l.
Strada della Mirandola, 11 – 42124 Reggio Emilia (RE) – Italy