SYSTEMS

OPERATOR MANUAL

AgControl

AGCO
Your Agriculture Company

TO OUR CUSTOMER:

Congratulations on your selection of an AGCO® Product. We believe you have exercised excellent judgment in the purchase of your product. We are most appreciative of your patronage.

Your dealer will discuss with you the instructions given in this manual, and instruct you in the proper applications of this product. Call on him at any time when you have a question.

AGCO® equipment is covered by a written warranty which will be provided to you by your AGCO® Dealer at time of purchase.

AgControl for Sprayers

1. Safety

1.1 Introduction

1.1.1 Safety alert symbol

The safety alert symbol means Attention! Become Alert! Your Safety Is Involved!

Look for the safety alert symbol both in this manual and on safety signs on this machine. The safety alert symbol will direct your attention to information that involves your safety and the safety of others.

Fig. 1

1.1.2 Safety messages

The words DANGER, WARNING or CAUTION are used with the safety alert symbol. Learn to recognize these safety alerts and follow the recommended precautions and safety practices.

DANGER:
Indicates an imminently hazardous situation that, if not avoided, will result in DEATH OR VERY SERIOUS INJURY.

WARNING:
Indicates a potentially hazardous situation that, if not avoided, could result in DEATH OR SERIOUS INJURY.

CAUTION:
Indicates a potentially hazardous situation that, if not avoided, may result in MINOR INJURY.

Fig. 2

1.1.3 Informational messages

The words important and note are not related to personal safety, but are used to give additional information and tips for operating or servicing this equipment.

IMPORTANT: *Identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of the machine, process, or its surroundings*

NOTE: *Identifies points of particular interest for more efficient and convenient repair or operation.*

1.1.4 Safety signs

WARNING:
Do not remove or obscure Danger, Warning or Caution signs. Replace any Danger, Warning or Caution signs that are not readable or are missing. Replacement signs are available from your dealer in the event of loss or damage. The actual location of the safety signs is illustrated at the end of this section.

Keep signs clean by wiping off regularly. Use a cleaning solution if necessary.

If parts have been replaced or a used machine has been purchased, make sure all safety signs are in the correct location and can be read. Illustrations of safety sign locations are located at the rear of this section.

Replace any safety signs that can not be read or are missing. Clean the machine surface thoroughly with a cleaning solution before replacing signs. Replacement safety signs are available from your dealer.

1.1.5 A word to the operator

It is your responsibility to read and understand the safety section in this manual and the manual for all attachments before operating this machine. Remember you are the key to safety. Good safety practices not only protect you, but also the people around you.

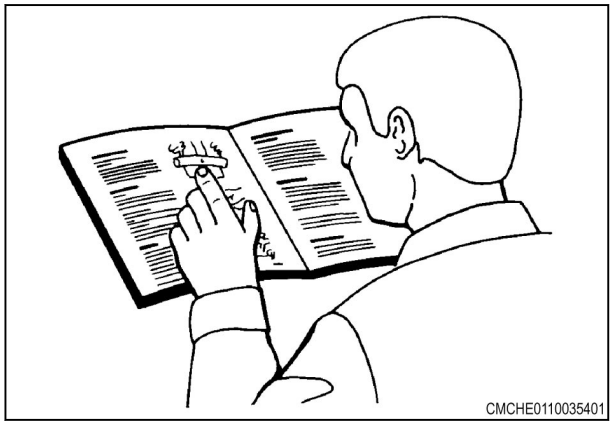


Fig. 3

Study the features in this manual and make them a working part of your safety program. Keep in mind that this safety section is written only for this type of machine. Practice all other usual and customary safe working precautions, and above all remember - safety is your responsibility. You can prevent serious injury or death.

This safety section is intended to point out some of the basic safety situations that may be encountered during the normal operation and maintenance of your machine. This section also suggests possible ways of dealing with these situations. This section is not a replacement for other safety practices featured in other sections of this manual.

Personal injury or death may result if these precautions are not followed.

Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate the machine without instruction and training.

For your personal safety and the personal safety of others, follow all safety precautions and instructions found in the manuals and on safety signs affixed to the machine and all attachments.

Use only approved attachments and equipment.

Make sure your machine has the correct equipment needed by the local regulations.

WARNING:
An operator should not use alcohol or drugs which can affect their alertness or coordination. An operator on prescription or 'over the counter' drugs needs medical advice on whether or not they can properly operate machines.

CAUTION:
If any attachments used on this equipment have a separate Operator Manual, see that manual for other important safety information.

1.1.6 This manual

This manual covers general safety practices for this system. The operator manual must always be kept with the system when relocated to another machine.

Right-hand and left-hand, as used in this manual, are determined by facing the direction the machine will travel when in use.

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible in-line production changes, your system can vary slightly in detail. The manufacturer reserves the right to redesign and change the system as necessary without notification.

WARNING:
In some of the illustrations and photos used in this manual, shields or guards may have been removed for clarity. Never operate the machine with any shields or guards removed. If the removal of shields or guards is necessary to make a repair, they must be replaced before operation.

1.2 Operation

1.2.1 Safety information

Most personal injuries occurring during product operation, maintenance or repair are caused by failure to observe basic safety rules and precautions. Usually, an injury can be avoided by recognizing dangerous situations before an injury occurs.

The operator must be alert to the possible dangers. The operator must have the necessary training, skills and tools to perform these functions properly.

Improper operation, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate, perform maintenance, or repair on this product, until you have read and understand the operation, the maintenance and the repair information.

Safety precautions and warnings are provided in this manual and on the product. Bodily injury or death could occur to the operator and bystanders if danger warnings are not heeded.

Not every possible circumstance that might involve a potential hazard can be anticipated. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, or technique, not recommended by AGCO, is used, you must make sure that it is safe for you and for others.

An operator must make sure the product will not be damaged or be made unsafe by the operation, maintenance, or repair procedures selected. Information, specifications, and illustrations in this publication come from information available at the time of publication production.

Specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before starting a job. AGCO dealers have the most current information available.

This system can be momentarily disabled if the (GNSS) satellites or differential correction signal is lost.

If this product has been dropped, altered, transported or shipped without proper packaging, or otherwise treated without care, erroneous measurements can occur.

Periodically test this product to make sure measurements are accurate.

Contact AGCO immediately if this product does not operate correctly.

CAUTION:
Do not move a reference station while in operation. Moving an operating reference station can interfere with the controlled steering of a system using the reference station. This could result in personal injuries or damage to property.

Do not erect the reference station under or within the vicinity of high voltage power lines.

When using the portable reference station, make sure the tripod is securely mounted.

1.2.2 Electrical components

WARNING:
Incorrectly connected power can cause severe damage to people or the equipment.

Make sure all the power cables to the system components are correctly connected. See the machine operator manual for safety information.

2. Introduction

2.1 Introduction

WARNING:
In some illustrations and photos, the shields or guards are removed for clarity. Contact with moving parts can cause personal injury or death. Never operate the machine with any shields or guards removed or in poor working condition.

CAUTION:
Read this manual in its entirety prior to operating the machine. Use only genuine replacement parts for repairs and/or replacement.

This manual gives the operator the proper instructions needed for operation and maintenance. Read, understand, and follow these instructions for best machine performance and life. With proper maintenance and operation procedures, the machine will have better over all performance. Use normally available tools for maintenance on this machine.

All operators must read and understand this manual before operating this machine. Where possible, operators who have not operated the machine must receive instruction from an operator who has operated this machine. Your dealer can give instruction in machine operation. Keep this manual with the machine for future reference. If the original manual is damaged, order a replacement from your dealer.

See your dealer for any service problems and adjustments. The dealer is equipped for all service work and to help with specific applications of the machine in local conditions.

Left-hand and right-hand are determined by facing the direction the machine will travel when in use.

2.1.1 Intended use

This machine is designed solely for use in customary agricultural operations.

Do not use this machine for any application or purpose other than those described in this manual. The manufacturer accepts no liability for damage or injury resulting from misuse of this machine.

Compliance with the conditions of operation, service and repair as specified by the manufacturer constitute essential elements for the intended use of this machine.

This machine should be operated, serviced and repaired only by qualified persons familiar with its characteristics and familiar with the relevant safety rules and procedures.

All generally recognized safety regulations and road traffic regulations must be obeyed at all times.

Any unauthorized modifications performed on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

Related Links

Introduction page 13

2.1.2 Proper disposal of waste

Improper disposal of waste can pollute the environment and ecology. A few examples of potentially harmful equipment waste can include, but not limited to, items such as oil, fuel, coolant, brake fluid, filters, battery chemicals, tires, etc.

Use leak proof containers when draining fluids. Do not use food or beverage containers to collect waste fluids, as food or beverage container(s) may mislead someone into drinking from them.

Do not pour or spill waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire with local environmental or recycling center on the proper way to recycle or dispose waste.

Related Links

Introduction page 13

2.2 Identification

2.2.1 Terminal identification

The terminal identification information is located on the terminal settings screen.

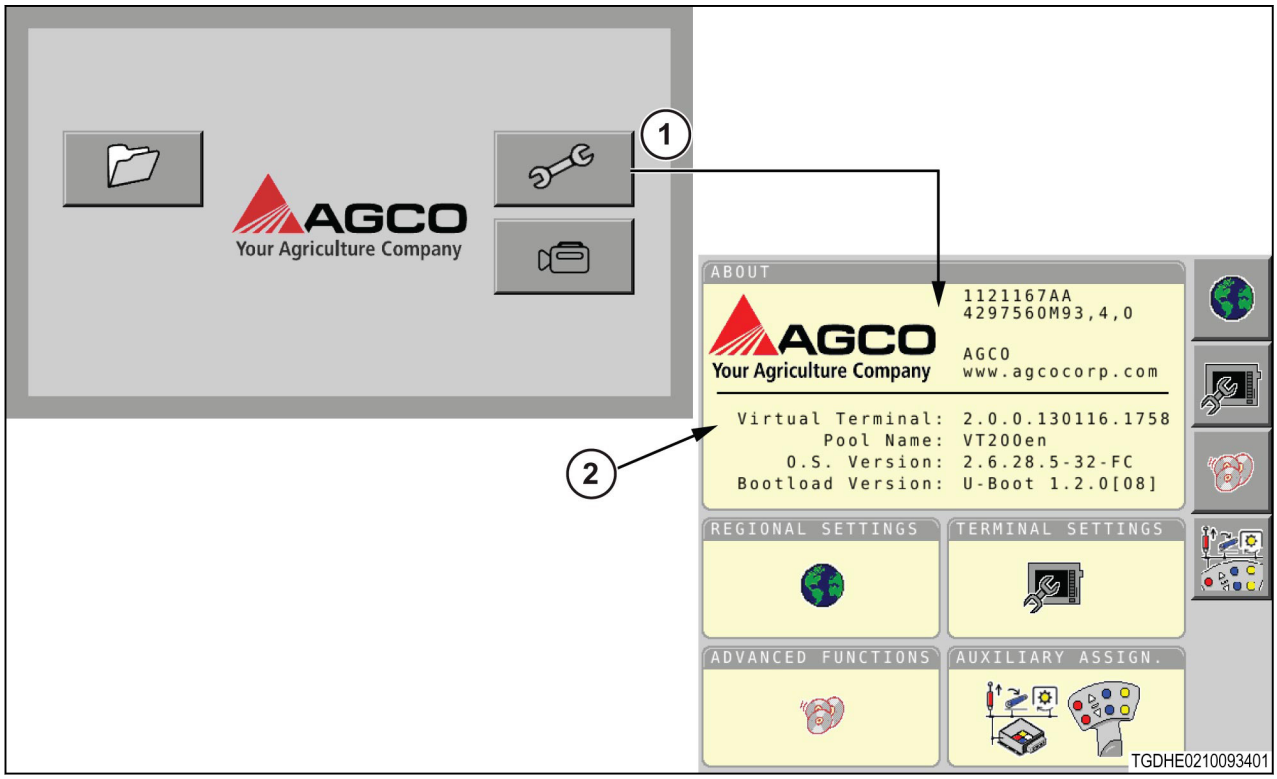


Fig. 1

1. Select  (1) from the home screen.
2. The terminal information (2) is shown.

The information will change when the terminal software is replaced.

Give the following information to your dealer when necessary:

Virtual terminal:	
Pool name:	
O.S. version:	
Bootload version:	

2.2.2 Task Controller software identification

The software identification information is located on the Task Controller setup screen.

Select the icons in the following order:

The information (1) will change when the software is replaced.

Give the following information to your dealer when necessary:

Software:	
Objectpool:	
ISO 11783:	

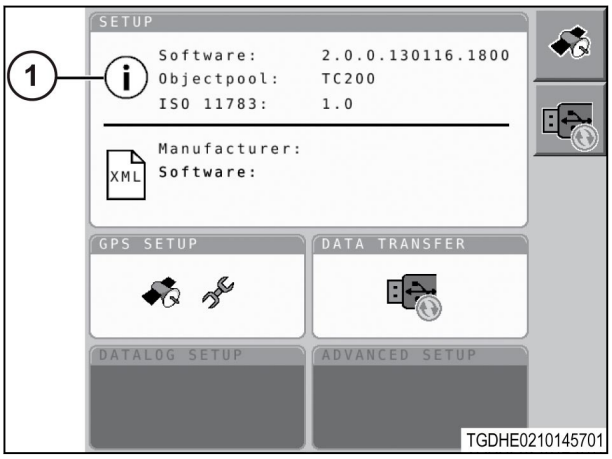


Fig. 2

2.2.3 Sprayer software identification

The sprayer software identification information is on the sprayer information screen.

Select the icons in the following order:

The information will change when the software is replaced. Give the following information to your dealer when necessary:

Software version:	
Pool version:	
Build date:	
Serial number:	

Fig. 3

Select  to return to the setup menu.

2.2.4 Boom settings software identification

The boom settings identification information is on the boom settings information screen.

Select the icons in the following order:

The information will change when the software is replaced. Give the following information to your dealer when necessary:

Software version:	
Pool version:	
Build date:	

Select  to return to the main boom settings screen.

Fig. 4

2.3 Major components

2.3.1 Terminal overview

The terminal is mounted in the cab of the machine, so the operator can monitor and control the operations of the machine or implement.

The terminal is an ISO VT compliant display, that can control the machine, the implement and precision farming operation. The system communicated using the CAN-Bus interface ISO/DA and serial EIA232.

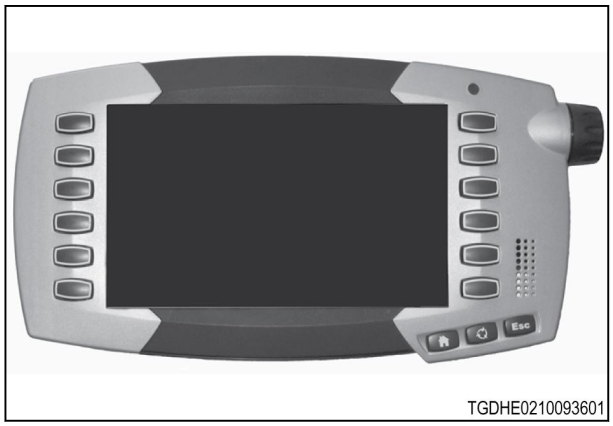


Fig. 5

Navigation

The keys (1) of either side of the terminal screen select the icon shown next to each key.

The scroll wheel (2) is used to:

- Move through lists
- Enter data values
- Select items

On the bottom right-hand side of the terminal are three keys:

(3) Home button

Returns to the home screen or switches to the first application if the home screen is shown

(4) ISO (International Organization of Standards) button

Moves between the applications if more than one ISO compliant implement is connected to the system

(5) **Esc** button

Moves to the previous screen

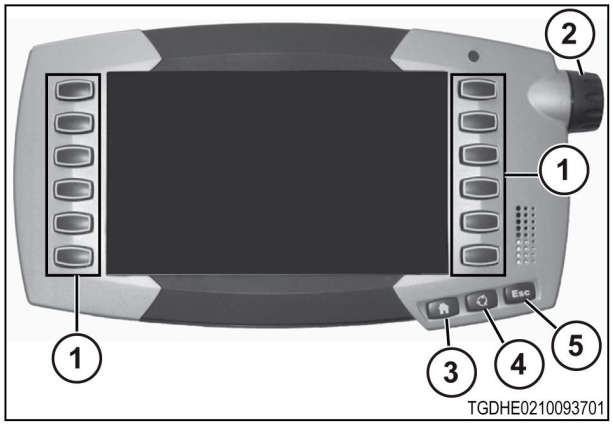


Fig. 6

Scroll wheel

Rotate the scroll wheel (1) clockwise or counter clockwise to move through lists. Press the scroll wheel to select or deselect an item.

When moving through numbers:

- Slowly rotating the scroll wheel permits fine control of the movement.
- Quickly rotating the scroll wheel permits coarse movement.

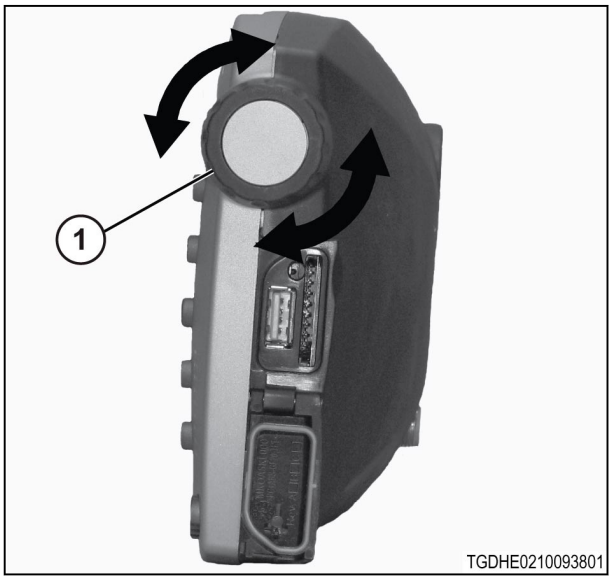


Fig. 7

2.3.2 Task Controller overview

Task Controller is a software program for the terminal used to communicate between a computer and a machine. The information recorded as a task can include machine information, such as harvesting yield data, planting rates or fertilizer and chemical application.

Task Controller records the following:

- Performance data such as tachometer hours, fuel consumption and work efficencies
- Sensor readings such as yield monitors, moisture sensors, and bale counters
- As applied information for crop input tasks such as seeding and fertilizing

Task Controller can control variable rate information for the following applications:

- Seed
- Fertilizer
- Chemical

The information can be seen on a coverage map on the terminal.

Farm Management Information System (FMIS) is a computer program used to make task information. The task information is saved as TaskData.xml.

The task information can be as easy as data logging during a tillage operation or as difficult as variable rate application.

Task files will contain lists of customers, farms, fields, crops, products, and tasks.

When the files are downloaded to the terminal, an existing task can be selected or a single customer, farm, field, or product can be added to a new task. Information made using FMIS cannot be changed on the terminal.

3. Operation

3.1 Prepare for operation

3.1.1 Setting the language

Procedure

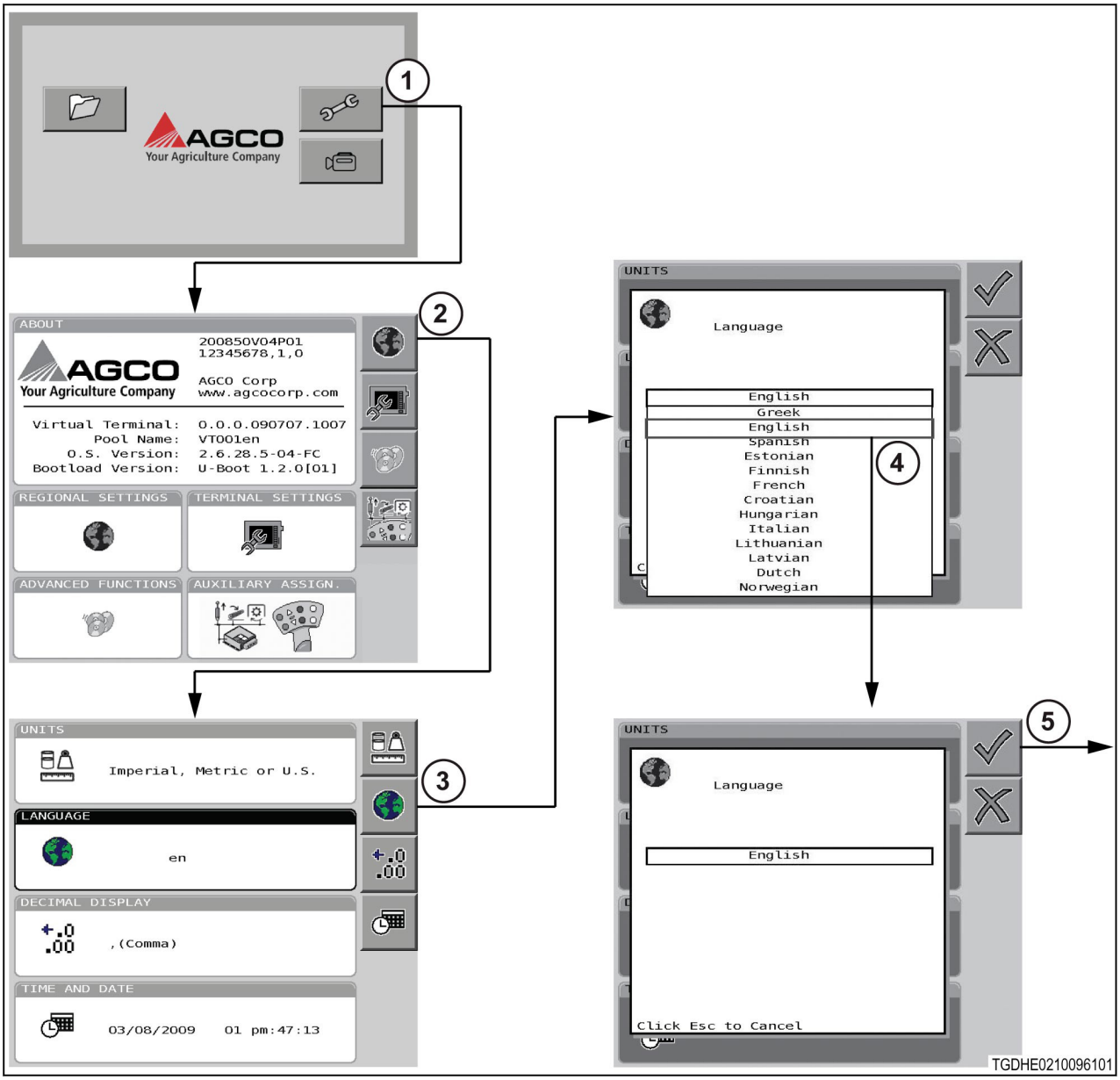


Fig. 1

1. Select  (1).
2. Select  (2).
3. Select  (3).
4. Select the desired language from the drop-down list (4).

   NOTE: *Not all languages shown are supported by all applications on the terminal.*

5. Select (5).
6. Select **Esc** to return to the system configuration main screen.

3.1.2 Data transfer

Data can move to and from the terminal using the USB port (1) or the SD card slot (2).

The USB port and SD card slot are under the door on the right-hand side of the terminal.

To prevent damage to the terminal and the data devices, the USB device and SD card must be installed and removed correctly.

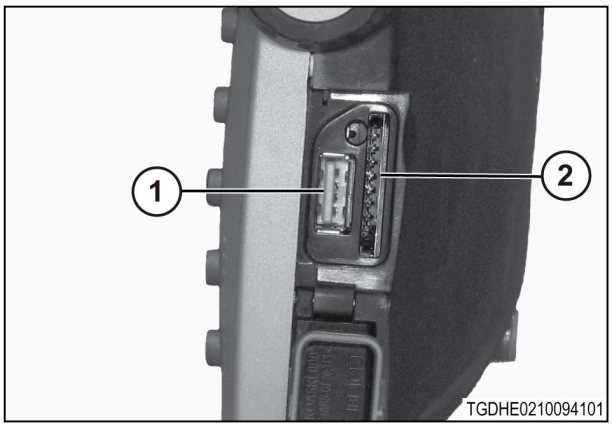


Fig. 2

Related Links

Data transfer page 23
Transferring data page 24

Data transfer

Select the icons in the following order:

The top of the data transfer screen shows the memory condition for the terminal (1), any SD card (2), and any USB device (3) connected to the terminal. The space is empty when no external devices are connected. The import and export icons will be gray and cannot be selected if there is not an external memory device connected to the terminal.

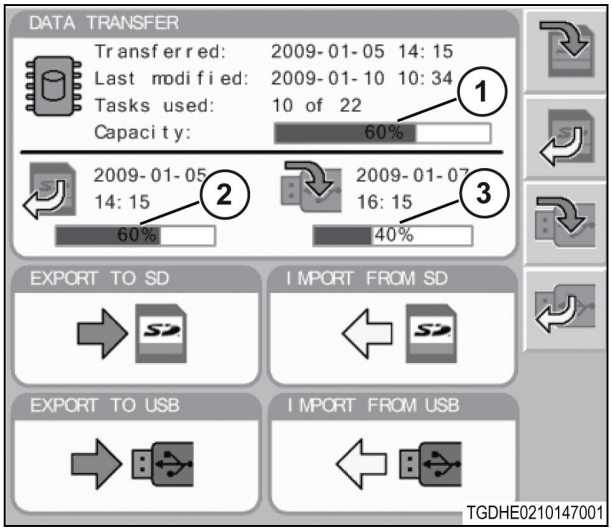


Fig. 3

The arrow indicates the action of the last transfer:

Arrow type	Description
	Yellow arrow - The last data transfer imported data from the external device
	Green arrow - The last data transfer exported data to the external device

Select **Esc** to return to the main Task Controller screen.

Related Links

Data transfer page 23

Transferring data

The terminal supports up to a 32G USB memory device or a 16G SD card.

Procedure

1. Insert an external memory device to the port on the right-hand side of the terminal.

   Result

   A prompt screen will show.

2. Select an icon to import or export data.

Icon	Description
	Export data from the terminal to an SD card
	Import data from an SD card to the terminal
	Export data from the terminal to a USB memory device
	Import data from a USB memory device to the terminal

3. When the transfer is complete, select the  shown on the screen.

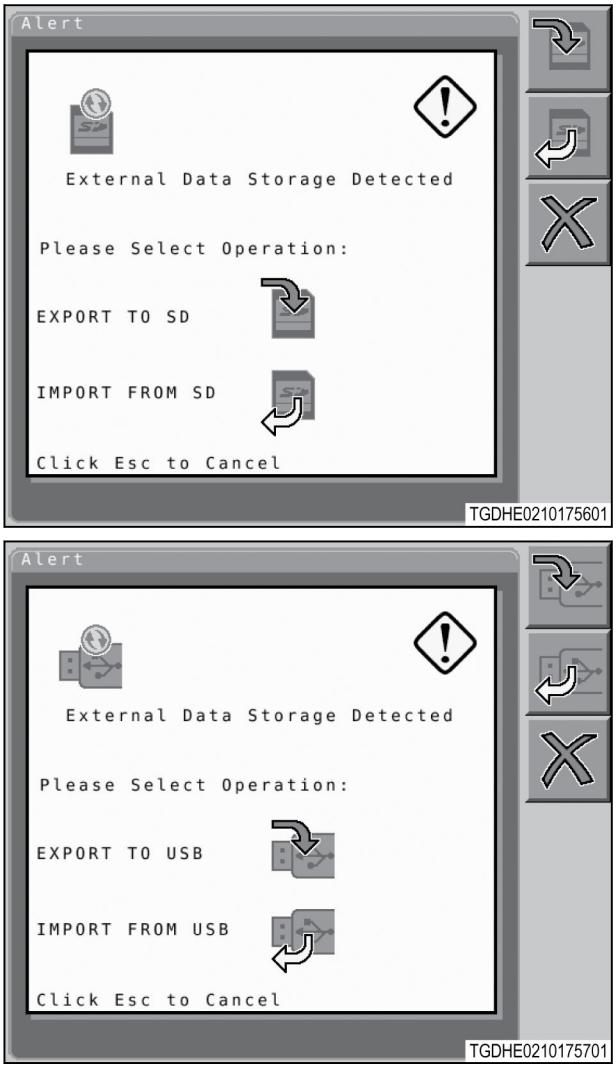


Fig. 4

Related Links

Data transfer page 23

3.1.3 USB device installation and removal

There is only one way to install a USB device (1).

Do not force the USB device into the USB port. If the USB device will not go into the USB port easily, the device is not being installed correctly. Turn the USB device over and install the USB device.

NOTE: *USB devices can vary in shape and size from the one shown.*

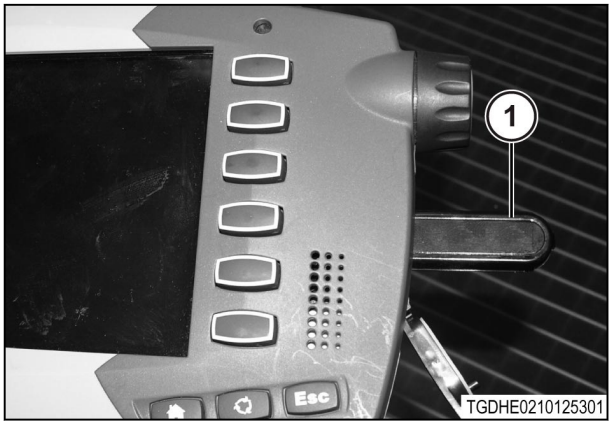


Fig. 5

3.1.4 SD card installation and removal

To install the SD card (1) into the terminal, hold the SD card so the label is turned away from the operator. Carefully push the SD card into the slot. Do not force the SD card into the slot.

To remove the SD card from the slot, carefully push in on the SD card and release. The SD card will move part way out of the slot. Remove the SD card.

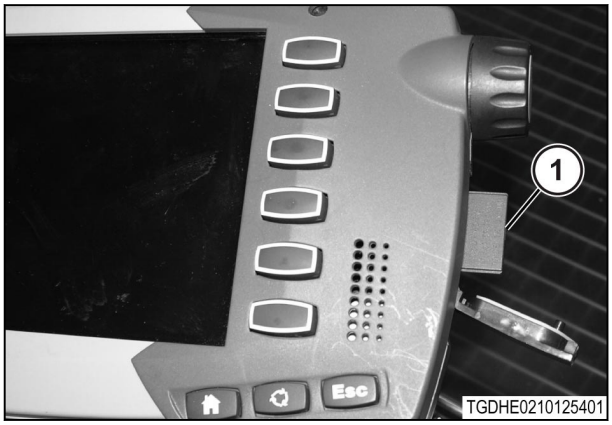


Fig. 6

3.1.5 Data recording

Data is recorded only while a task is running.

After a task is stopped, the TASKDATA.xml files can be copied from the terminal to a USB device. From a USB device the information can be moved to a computer.

To make sure the information is accurate, correctly operating a task is important. A task must be stopped before the machine is turned off, even if field operation is not complete. Start the task again when the machine operation starts again. This will decrease the risk of data corruption and not accurate task data.

3.1.6 Configuring the GPS

Configuration of the GPS is necessary if using a serial GPS.

Procedure

1. Select the icons in the following order:

2. Put a checkmark in the box next to **Serial GPS Enabled** (1).
3. Enter the serial port setup information (2).

Result

See the GPS source manual for correct values for the serial port setup information.

4. Make sure COM1 is selected as the COM port.
5. Select the icons in the following order:

 **Esc**

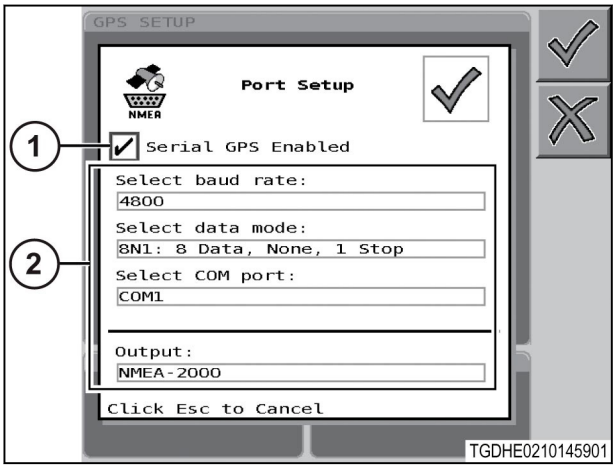


Fig. 7

3.1.7 Setting the antenna location

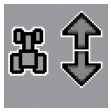
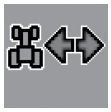
Some receivers automatically setup the antenna location and setting the antenna location is not necessary. See the receiver manual for more information.

The antenna locations and measurements are from the center of the primary driven axle of the machine, not the implement.

Procedure

1. Select the icons in the following order:

2. Select the icons to change the location of the antenna.

Icon	Description
	Change the antenna location from the front to the rear or from the rear to the front of the machine
	Change the antenna location from side to side of the machine
	Change the antenna location from top to bottom or from bottom to top of the machine

3. Enter offset values as necessary. The blue circle indicates the antenna location. The red circle indicates the primary driven axle.

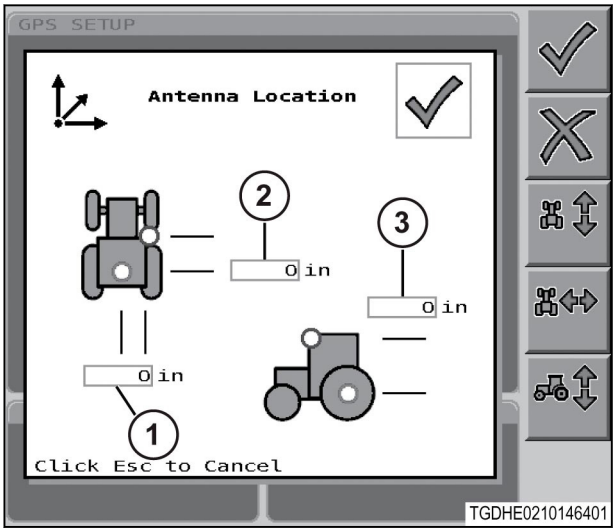


Fig. 8

- Offset value (1) for the antenna if the antenna location is to the left-hand or right-hand side of the machine.
- Offset value (2) of the antenna if the antenna location is in front of or behind the rear axle.
- Offset value (3) of the antenna if the antenna location is below or above the rear axle.

4. Select the icons in the following order.

Esc

3.2 Terminal operation

3.2.1 Regional settings

Setting the time and date

Procedure

1. Select the icons in the following order:

2. Select the box below **Set Date Type** (1).

Date type	Selection
Month/date/year	12/31/2008
Month/year/date	12/2008/31
Date/month/year	31/12/2008
Date/year/month	31/2008/12
Year/month/date	2008/12/31
Year/date/month	2008/31/12

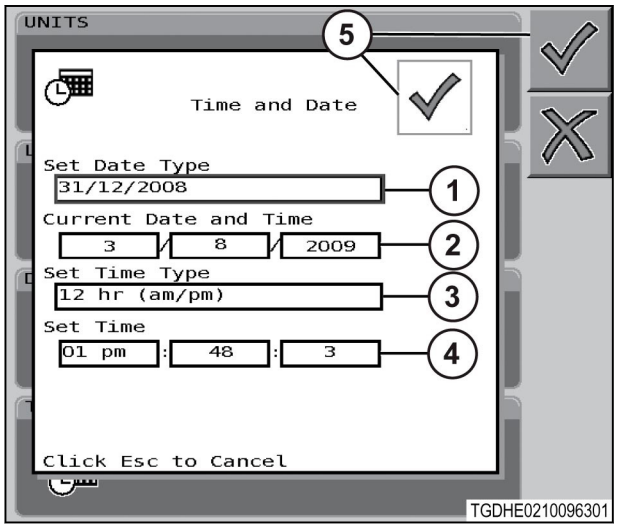


Fig. 9

3. Select the boxes below **Current Date and Time** (2).
4. Select the boxes below **Set Time Type** (3).
   - 24 hr
   - 12 hr (am/pm)
5. Select the box below **Set Time** (4).
6. Select  (5).
7. Select **Esc** to return to the system configuration main screen.

Setting the measurement units

Procedure

1. Select the icons in the following order:

2. Select the measurement settings.
   - One unit type for all measurements (1).
   - Set separate units for different measurement types (2).
3. Select  (3).
4. Select **Esc** to return to the system configuration main screen.

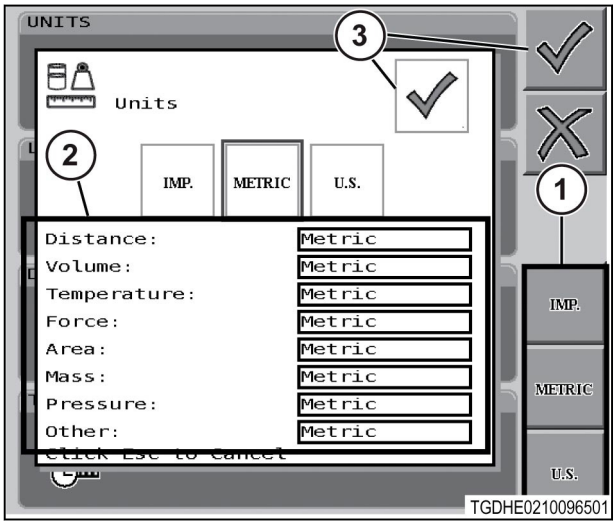


Fig. 10

Setting the decimal display

Procedure

1. Select the icons in the following order:

   
2. Select a decimal display option from the drop-down list (1).
3. Select  (2).
4. Select **Esc** to return to the system configuration main screen.

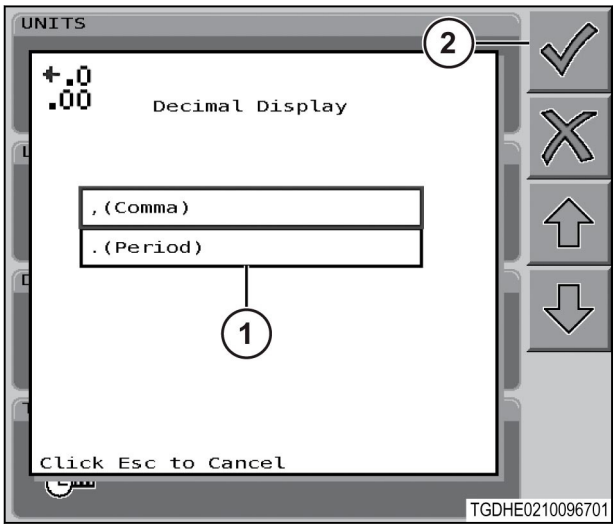


Fig. 11

3.2.2 Terminal settings

Adjusting the sound

Procedure

1. Select the icons in the following order:

2. Adjust the sound level by selecting either the + (1) or − (2).

   IMPORTANT: *The terminal sound will not go below the minimum sound level.*

   Result

   The sound level is shown in two ways.
   - Percentage (3)
   - Bar graph (4)

3. Select the box next to **Enable hardkey sound** (5). Put a checkmark in the box to have a sound occur each time a button or icon is selected. Leave the box empty to have no sound occur when selecting a button or icon.
4. Select ✓ (6).
5. Select **Esc** to return to the system configuration main screen.

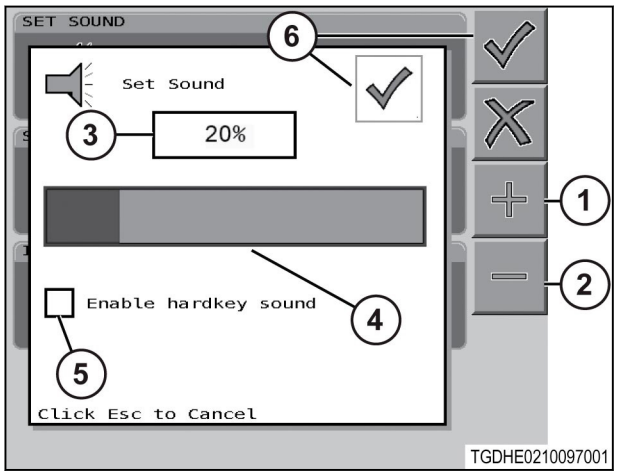


Fig. 12

Adjusting the brightness

Procedure

1. Select the icons in the following order:

2. Adjust the brightness level by selecting either the + (1) or − (2)

   Result

   The brightness level is shown in two ways.
   - Percentage (3)
   - Bar graph (4)

3. Select ✓ (5).
4. Select **Esc** to return to the system configuration main screen.

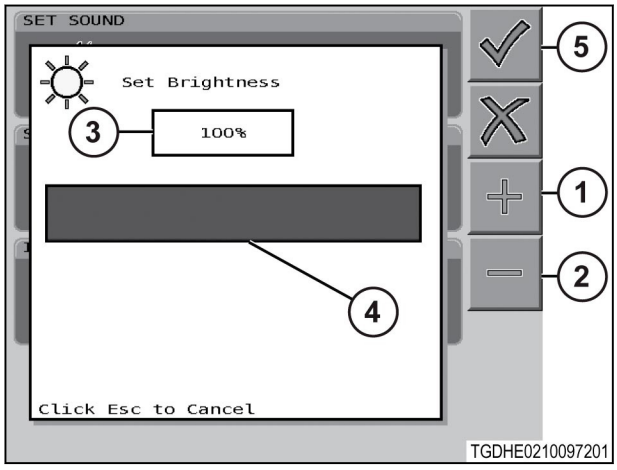


Fig. 13

Changing the display mode

Before starting the procedure

This option is only available for software version 1.8 and up.

The terminal has a dual ISOBUS display option. This option shows information for more than one ISO-compliant machine on the terminal.

ISOBUS refers to any electronic equipment that complies with the International Organization for Standards (ISO) 11783 standard. The standard covers the protocol for electronic communication between implements, tractors, and computers.

Procedure

1. Select the icons in the following order.

    .

2. Select an option from the drop-down list (1).
   - **ON** – will show the information for more than one ISO-compliant machine
   - **OFF** – will show the information for one ISO-compliant machine
3. Select  (2).
4. Select **Esc** to return to the system configuration main screen.

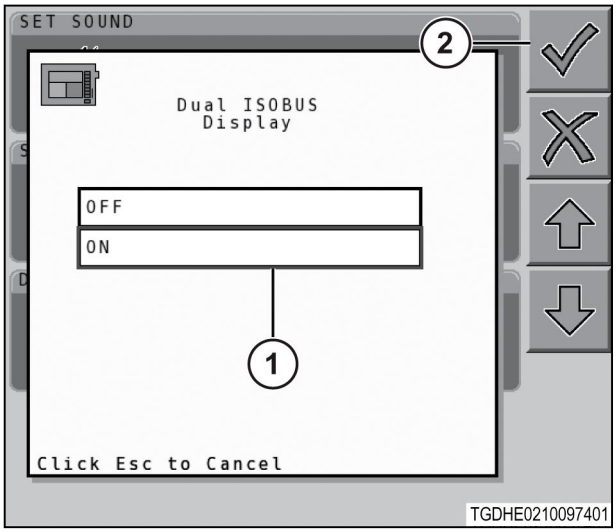


Fig. 14

Configuring multiple terminals

Before starting the procedure

This option is only available for software version 1.8 and up.

The terminal can be connected to a system with multiple terminals. From the ISOBUS Terminal Setup screen, the terminal can be configured as the primary terminal or used as a secondary monitor.

ISOBUS refers to any electronic equipment that complies with the International Organization for Standards (ISO) 11783 standard. The standard covers the protocol for electronic communication between implements, tractors, and computers.

Procedure

1. Select the icons in the following order.

2. Select the box next to **ISOBUS Terminal Functions** (1).
3. Select an option from the drop-down list (2).
   - ° **OFF** – The terminal will not be connected to the ISOBUS system.
   - ° **AUTO** – The terminal will be connected to the ISOBUS system. If another terminal is also connected, the C1000 will automatically disconnect from the ISOBUS system.
   - ° **ON** – The terminal will be connected to the ISOBUS system.

   a) If **ON** is the option selected, select the box next to **Assign Terminal Number** (3).
   b) Select the desired terminal number from the list.
4. Select  .
5. Select **Esc** to return to the system configuration main screen.

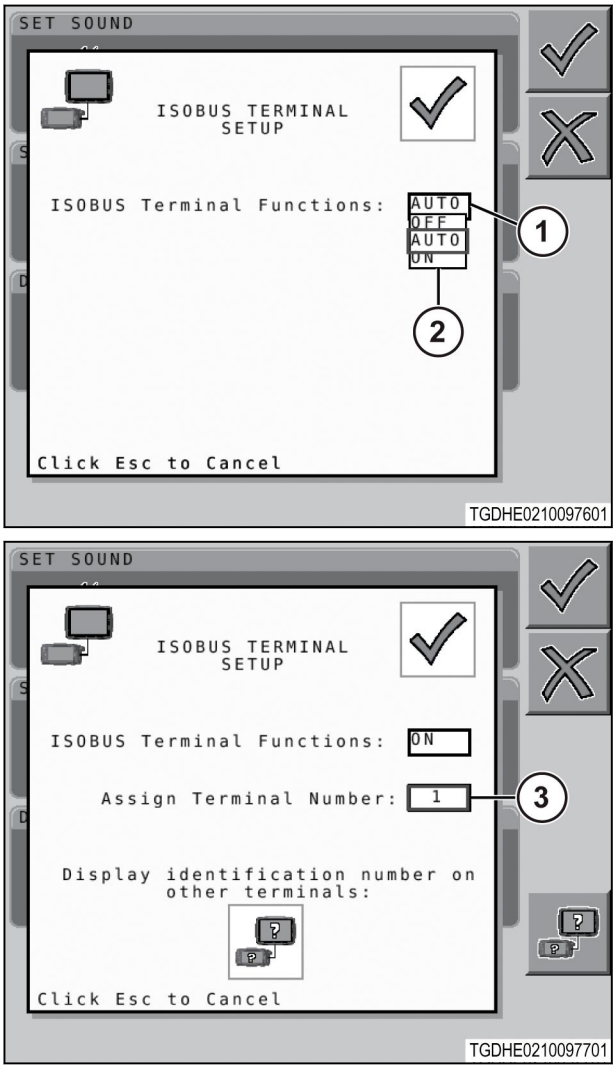


Fig. 15

3.2.3 Advanced functions

Application control

To see the software applications on the terminal select the icons in the following order.

 .

Active software applications will have a checkmark in the box (1) next to the name.

Software applications that are not active will have an empty box (2) next to the name.

NOTE: *The software application list can be different from the one shown.*

To return to the terminal setup screen, select **Esc** twice.

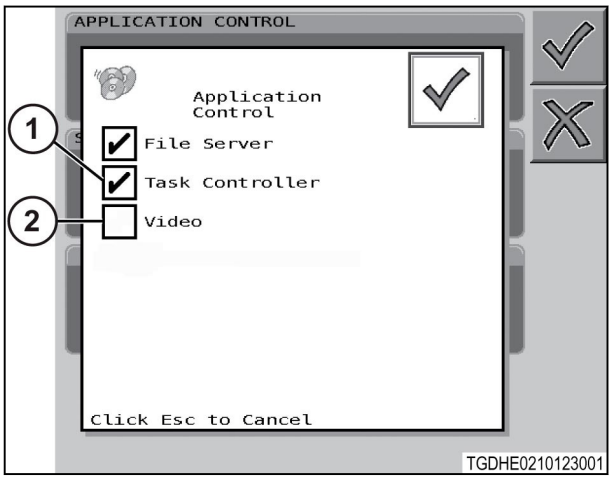


Fig. 16

3.2.4 Video camera

A video camera is available for terminals with a video camera connection.

Cameras used with an AGCO terminal must use the PAL (Phase Altering Line) format. AGCO terminals are not compatible with the NTSC (National Standards Television Committee) format.

Related Links

Enabling the video camera page 33

Enabling the video camera

Procedure

1. Install the remote video camera.
2. Connect the cable to the terminal
3. Select the icons in the following order.

   
4. Select the box next to **Video** (1).
5. Put a checkmark in the box (2).
6. Select  .

   Result

   The  will show on the left-hand side of the the screen.
7. Select  .

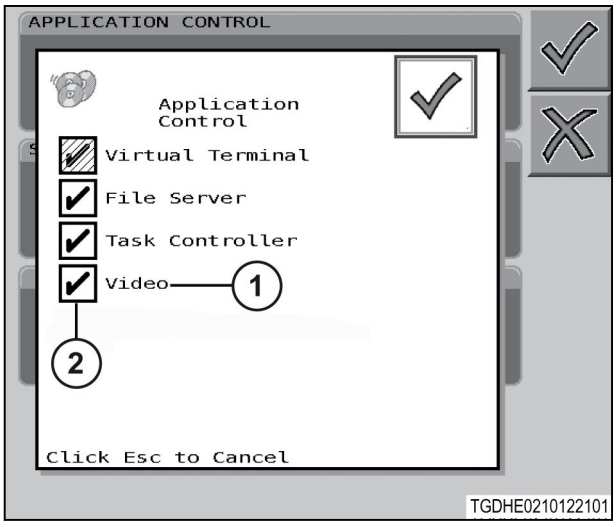
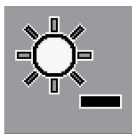


Fig. 17

8. From the video camera screen, adjust the view, as necessary.

The selected function (1) and the adjustment (2) show on the bottom of the screen.

Icon	Description
	Increase brightness
	Decrease brightness
	Increase contrast
	Decrease contrast
	Flip View
	Full screen

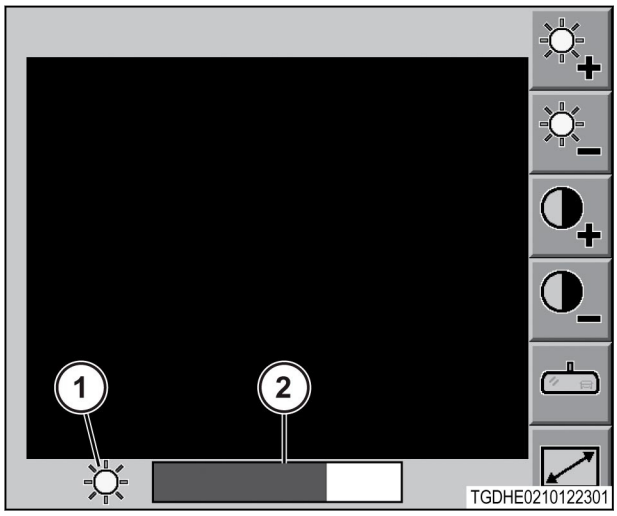


Fig. 18

9. Select the icon on the left-hand side of the screen to return to the desired application main screen.

Related Links

Video camera page 33

3.3 Task Controller operation

3.3.1 Main screen overview

The main screen shows two information boxes. When seeing Task Controller for the first time, a task is shown in the top information box (1).

The bottom information box (2) will show summary or map. See the information for changing the information box.

The task information box shows the task name (3) of the selected task, and the following information:

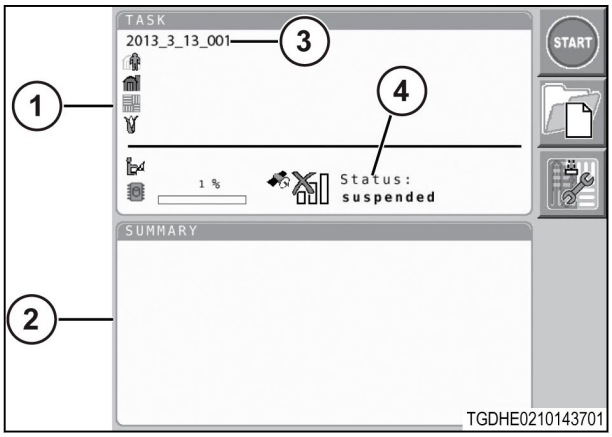
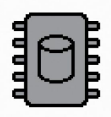


Fig. 19

Icon	Description
	Customer
	Farm
	Field
	Crop/variety
	Operator
	Memory –The percentage and bar graph to the right show the amount of memory used
No image	**Task status** (4) Initial - shown when a new task is selected Running - shown when a task is running Suspended - shown when a task is stopped

Icon	Description
	None - only shown if no task is selected Finished - only shown if the selected task is set as complete in the computer program.
GPS condition	
	No Differential Global Positioning System (DGPS) signal
	No DGPS correction
	DGPS low accuracy
	DGPS high accuracy

Other information shown on the screen is determined by the machine or implement connected to the terminal.

3.3.2 Changing the information boxes - C1000 terminal

Procedure

1. Select the desired information box (1).
2. Press in and release the scroll wheel.

Result

The terminal will show the selector screen.

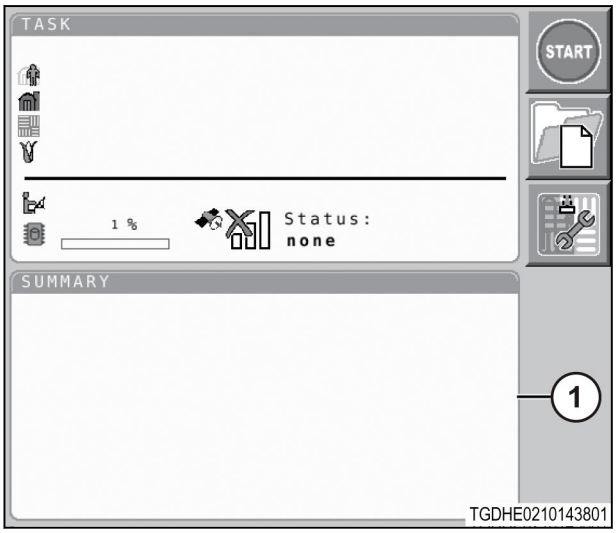


Fig. 20

3. Select the desired icon.

Icon	Name	Description
	Task	See task information including making, editing and deleting tasks
	Map (Half)	See map layers including coverage map and field boundary map
	Summary	Shows task summary information
	Control	Start or stop section control Shows product information including: target application rate, actual application rate.
	Task notes	The operator can make notes about each task
	Markers	Drop markers
	Setup	Takes the operator to the setup screen for the GPS and data transfer information

Fig. 21

3.3.3 Task Controller condition icons

The Task Controller icon (1) can show three types of information independently at the same time.

- Memory condition
- Task condition
- GPS condition - same information shown on the task main screen

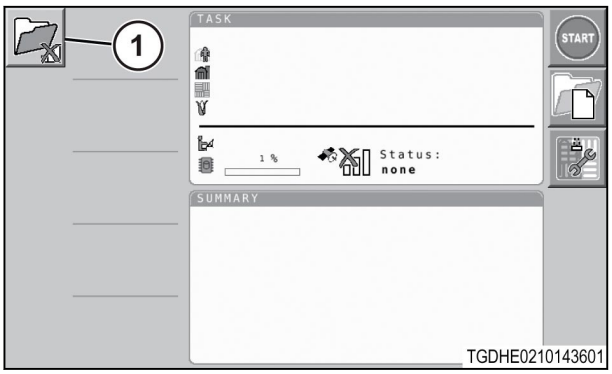
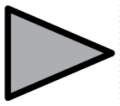


Fig. 22

Memory condition

Icon	Description
	Out of storage space - 100 % full
	Low on storage space - 95 to 99 % full

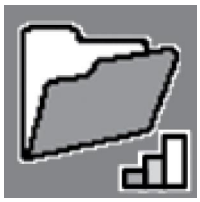
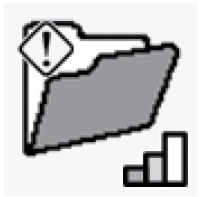
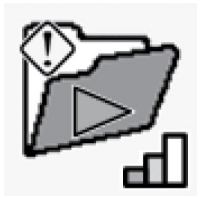
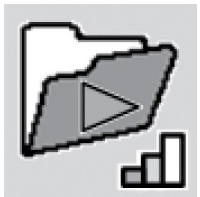
Task condition

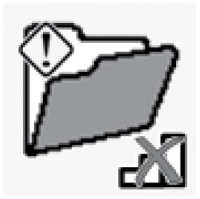
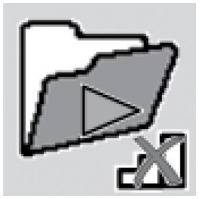
Icon	Description
	Task is running
No icon	Task is suspended, stopped or not selected

The background color of the icon shows:

- Red
  - Terminal connection lost
  - Memory storage space is full
- Yellow shows memory storage space is low
- Green shows a task is running

GPS condition and background color

Icon	Description
	GPS - low accuracy Background - red - terminal connection lost and connecting
	GPS - low accuracy Background - red - out of storage
	GPS - low accuracy Background - yellow - low on storage space
	GPS - low accuracy Background - yellow - low on storage space Task is running
	GPS - low accuracy Background - green - task is running
	GPS - low accuracy Background - normal - Task Controller is active
	No valid GPS Background - red - terminal connection lost and connecting

Icon	Description
	No valid GPS Background - red - out of storage
	No valid GPS Background - yellow - low on storage space
	No valid GPS Background - yellow - low on storage space Task is running
	No valid GPS Background - green - task is running
	No valid GPS Background - normal - Task Controller is active

3.3.4 Task setup

Selecting a task

A task must be made on the terminal or imported from an external source before selecting a task.

Procedure

1. Select  .
2. Select the task name box (1).
3. Select the desired task from the drop-down list.
4. Select  .

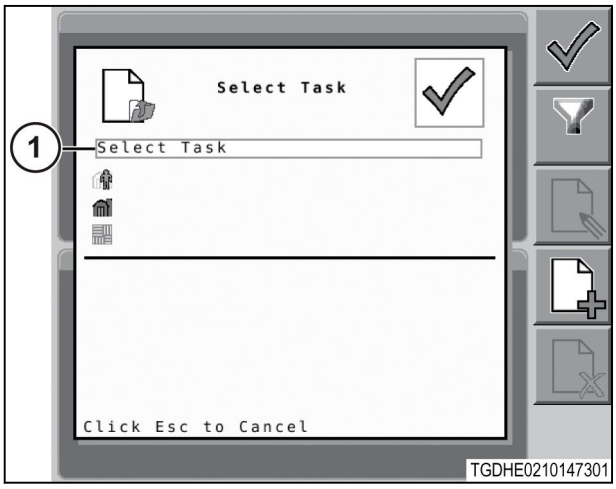


Fig. 23

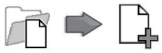
After finishing the procedure

If a task has been run before, task information will show on bottom of the screen. If there is more information available than can be shown on the screen, the  is available.

Making a task

Procedure

1. Select the icons in the following order:

2. If desired, change the default task name:

   NOTE: *These steps are optional. If using the default task name, go to the next numerical step.*

   a) Select the task name box (1).
   b) Enter the desired task name on the keyboard.
   c) Select  .

   Other information on the screen about the customer, farm, and field is optional. See the information for customer setup, farm setup, and field setup.

3. Select  twice to return to the main screen.

Fig. 24

Editing a task

A task can only be changed if:

- The task was made on the terminal, and
- The task status is initial.

The edit icon is grayed out and not available if:

- The task was imported to the terminal, or
- The task has been used.

Procedure

1. Select  .
2. Select the task name box (1).
3. Select the desired task from the drop-down menu.
4. Select  .

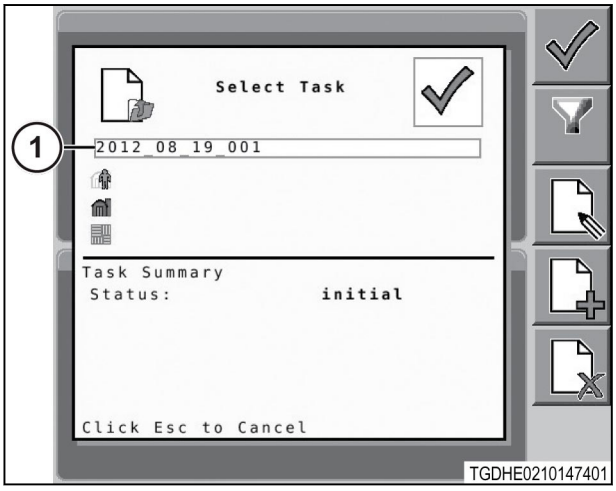


Fig. 25

5. Select the task name box (1).
6. Change the task name using the on-screen keyboard.
7. Select  .

   Other information on the edit task screen about the customer, farm, and field is optional. See the information for customer setup, farm setup, and field setup.
8. Select  twice to return to the main screen.

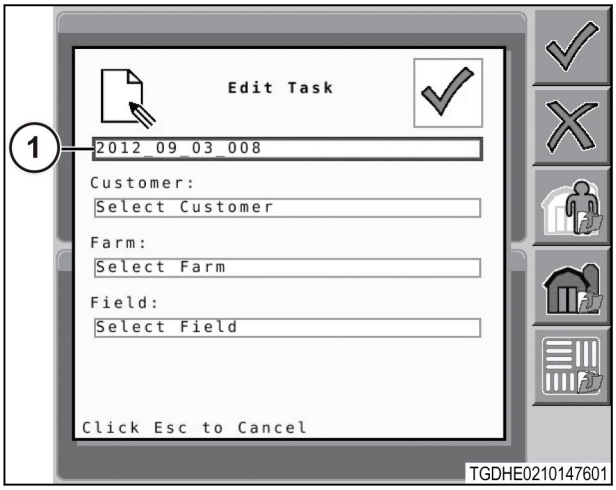


Fig. 26

Removing a task

Procedure

1. Select  .

2. Select the task name box (1).
3. Select the desired task from the drop-down list.
4. Select the icons in the following order.

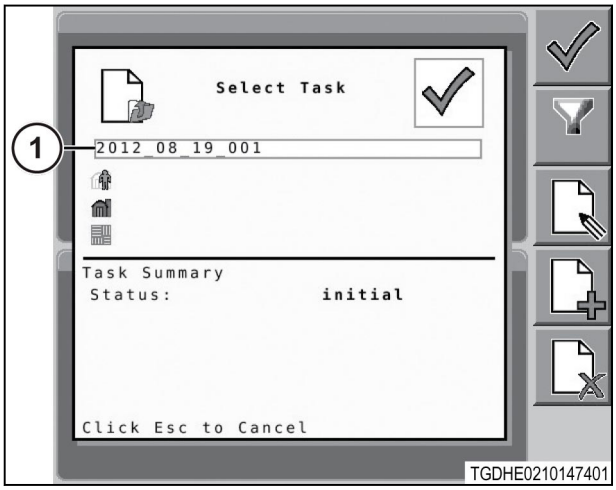


Fig. 27

3.3.5 Customer setup

Making a customer profile

A customer profile can be made from the task screens. See the information for task setup.

A customer profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the icons in the following order.

2. Enter the customer information.
   Customer information includes last name, first name, address, and telephone number.
3. Select four times to return to the main screen.

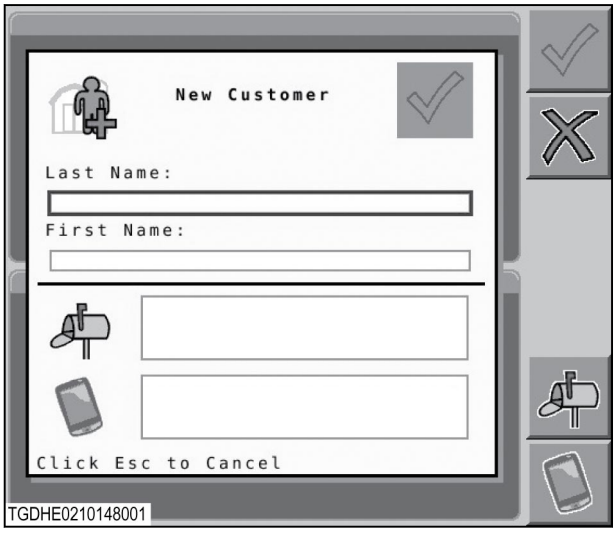


Fig. 28

Selecting a customer profile

A customer profile can be selected from the task screens. See the information for task setup.

A customer profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the box below **Customer:** (1).
2. Select the desired customer name from the drop-down list.
3. Select ✓ twice to return to the main screen.

Fig. 29

Editing a customer profile

A customer profile can only be changed from the new task or edit task screens. See the information for task setup.

A customer profile cannot be changed when the task has already been started.

Procedure

1. From the new task or edit task screen, select .
2. Select the customer name box (1).
3. Select the desired customer from the drop-down list.
4. Select .
5. Change the desired customer information.
6. Select ✓ five times to return to the main screen.

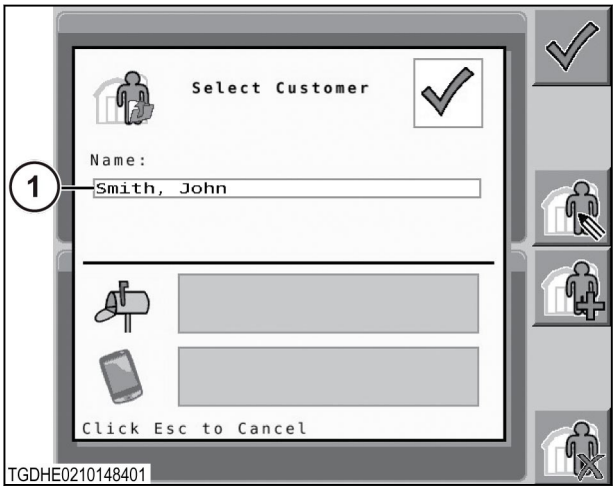


Fig. 30

Removing a customer profile

A customer profile can be removed from the task screens. See the information for task setup.

The customer profile cannot be removed if:

- The customer profile is part of a task that has already been started,
- A farm or field is part of the customer profile.

Procedure

1. From the new task or edit task screen, select  .
2. Select the customer name box (1).

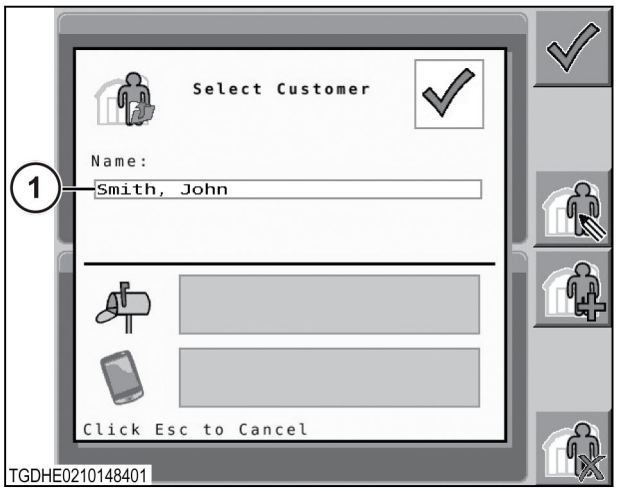


Fig. 31

3. Select the desired customer from the drop-down list.
4. Select  .
5. Select  four times to return to the main screen.

3.3.6 Farm setup

Making a farm profile

A farm profile can be made from the task screens. See the information for task setup.

A farm profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the icons in the following order.

2. Enter the farm information.
   The farm information includes a farm name, customer, and address for the farm.

   NOTE: *To add or change a customer, see the information for customer setup.*

3. Select ✓ four times to return to the main screen.

Fig. 32

Selecting a farm profile

A farm profile can only be selected from the new task or edit task screens. See the information for task setup.

A farm profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the box below **Farm:** (1).
2. Select the desired farm name from the drop-down list.
3. Select ✓ twice to return to the main screen.

Fig. 33

Editing a farm profile

A farm profile can only be changed from the new task or edit task screens. See the information for task setup.

A farm profile cannot be changed when the task has already been started.

Procedure

1. From the new task or edit task screen, select .

2. Select the farm name box (1).
3. Select the desired farm from the drop-down list.
4. Select  .
5. Change the desired farm information.
6. Select  five times to return to the main screen.

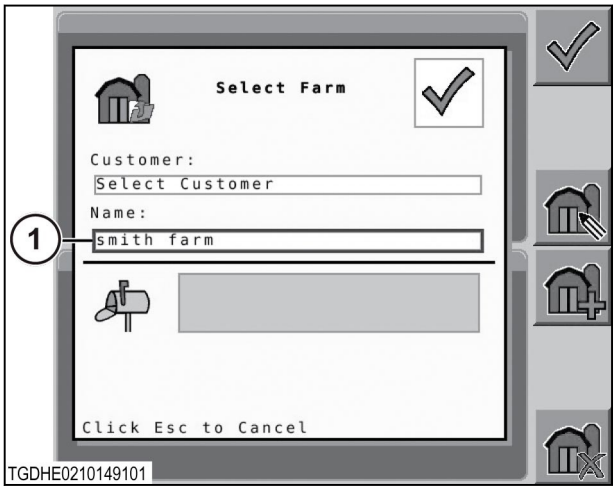


Fig. 34

Removing a farm profile

A farm profile can only be removed from the new task or edit task screens. See the information for task setup.

If the farm profile is part of a task has already been started , the farm profile cannot be removed.

The farm profile cannot be removed if:

- The farm profile is part of a task has already been started, or
- A field is part of the farm profile.

Procedure

1. From the new task or edit task screen, select  .
2. Select the farm name box (1).
3. Select the desired customer from the drop-down list.
4. Select  .
5. Select  four times to return to the main screen.

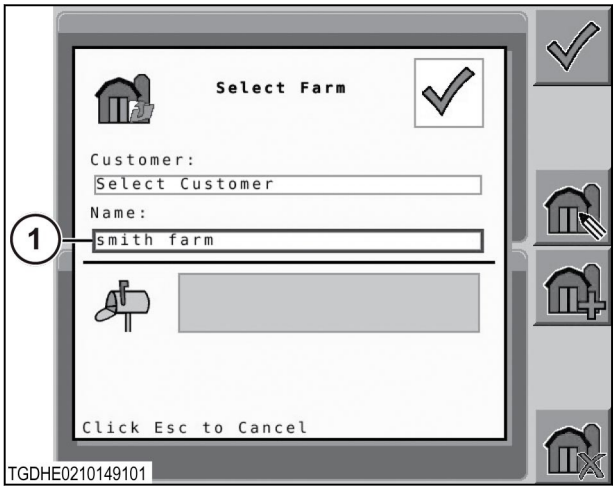


Fig. 35

3.3.7 Field setup

Making a field profile

A field profile can only be made from the new task or edit task screens. See the information for task setup.

A field profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the icons in the following order.

2. Enter the field information.

   The field information includes a field name, area, customer, and a farm.

   NOTE: *To add or change a customer or farm, see the information for customer setup or farm setup.*

   The field code is only used if the field was imported to the terminal after being made using farming management information system (FMIS) software.

   A crop can be added to each field. The crop icon (1) is available after a field name has been made. See the information for crop setup.

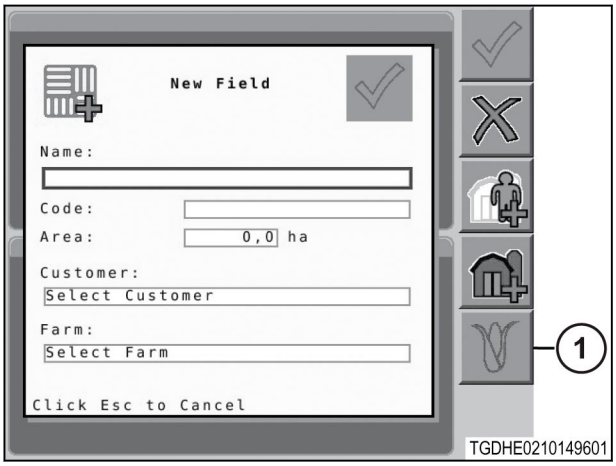


Fig. 36

3. Select  four times to return to the main screen.

Selecting a field profile

A field profile can only be selected from the new task or edit task screens. See the information for task setup.

A field profile cannot be added to a task that has already been started.

Procedure

1. From the new task or edit task screen, select the box below **Field:** (1).
2. Select the desired field name from the drop-down list.
3. Select  twice to return to the main screen.

Fig. 37

Editing a field profile

A field profile can only be changed from the new task or edit task screens. See the information for task setup.

A field profile cannot be changed when the task has already been started.

Procedure

1. From the new task or edit task screen, select .
2. Select the field name box (1).
3. Select the desired farm from the drop-down list.
4. Select .
5. Change the desired field information.
6. Select five times to return to the main screen.

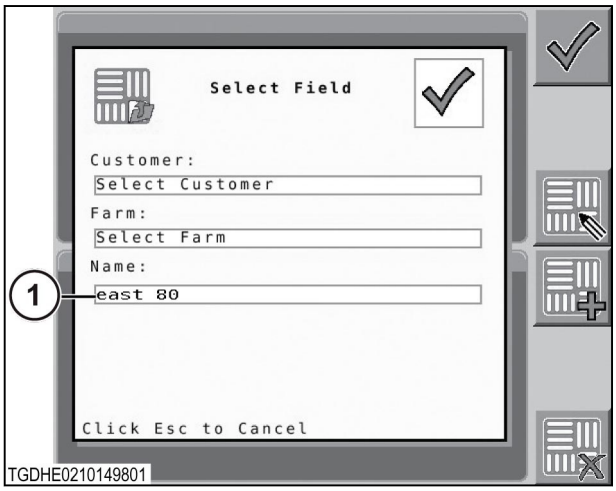


Fig. 38

Removing a field profile

A field profile can only be removed from the new task or edit task screens. See the information for task setup.

If the field profile is part of a task that has already been started, the field profile cannot be removed.

Procedure

1. From the new task or edit task screen, select .
2. Select the field name box (1).
3. Select the desired field from the drop-down list.
4. Select .
5. Select four times to return to the main screen.

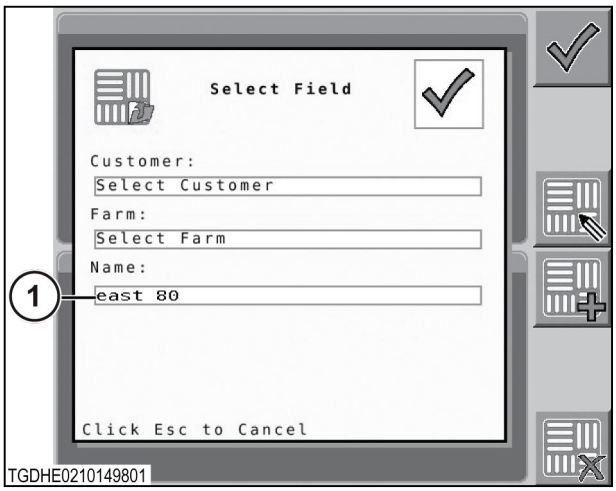


Fig. 39

3.3.8 Crop setup

Making a crop profile

A crop profile can only be added to a field profile. See the information for field setup.

Procedure

1. From the new field or edit field, select the icons in the following order:

2. Select the box below **Name:** (1).
3. Enter the desired name for the crop.
4. Select  seven times to return to the main screen.

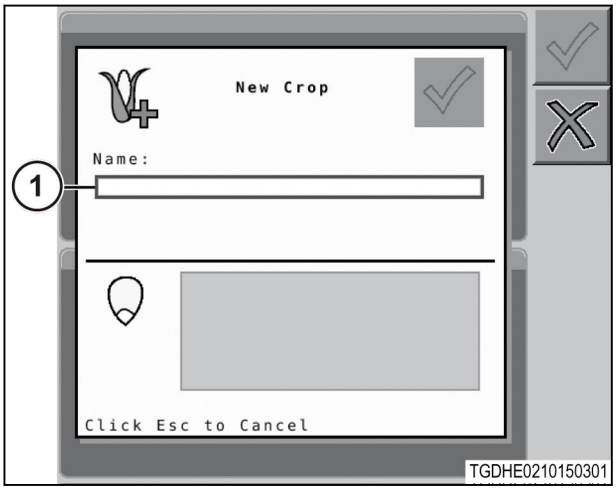


Fig. 40

Selecting a crop profile

A crop profile can only be added to a field profile. See the information for field setup.

Procedure

1. From the new field or edit field, select  .
2. Select the box under **Crop:** (1).
3. Select  five times to return to main screen.

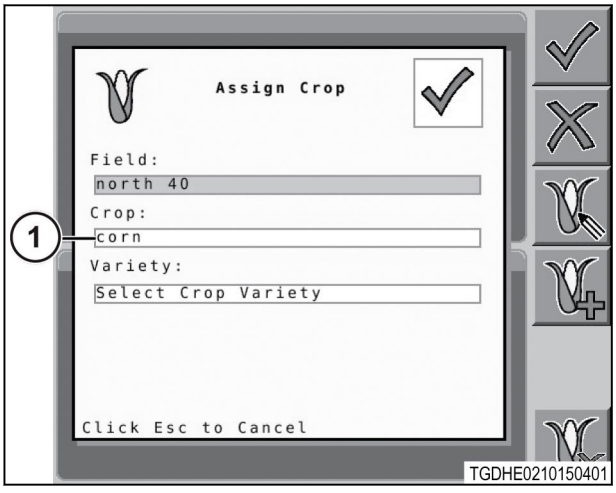


Fig. 41

Editing a crop profile

A crop profile can only be changed from the field setup screens. See the information for field setup.

A crop profile cannot be changed when the task has already been started.

Procedure

1. From the new field or edit field, select  .

2. Select the box under **Crop:** (1).
3. Select the desired crop.
4. Select  .
5. Change the desired crop information.
6. Select  six times to return to the main screen.

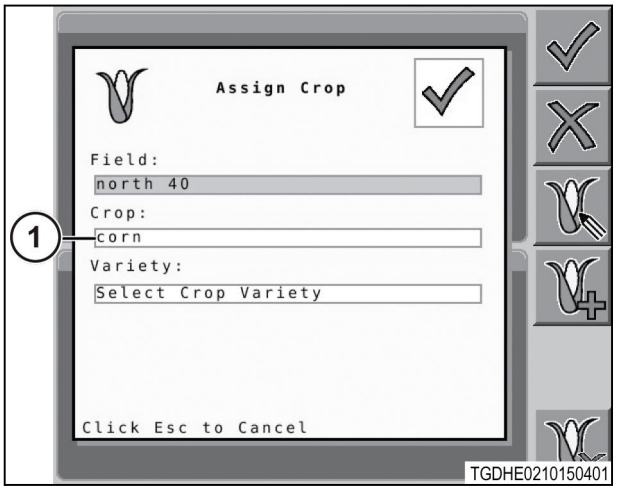


Fig. 42

3.3.9 Operator setup

Making an operator profile

An operator can be added to a task or changed at any time.

Procedure

1. Select the icons in the following order:

2. Enter the operator information.

   The operator information includes last name, first name, address  , and telephone number  .
3. Select  three times to return to the main screen.

Fig. 43

Selecting an operator profile

An operator can be added to a task or changed at any time.

Procedure

1. Select  .

2. Select the box next to (1).
3. Select the desired operator from the drop-down list.
4. Select to return to the main screen.

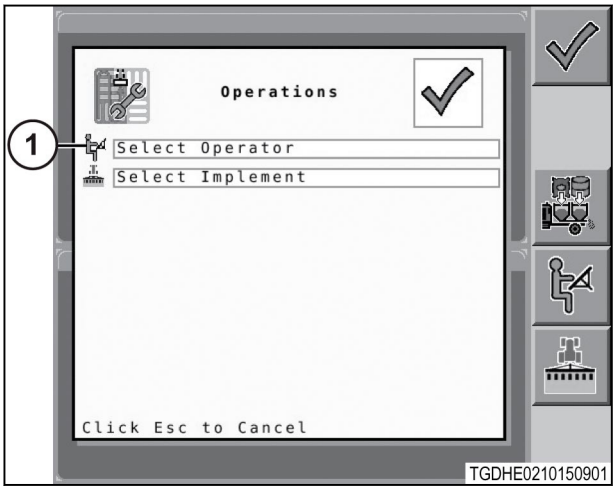


Fig. 44

Editing an operator profile

An operator can be added to a task or changed at any time.

Procedure

1. Select the icons in the following order:

2. Select the box below **Name:** (1).
3. Select the desired operator.
4. Select .
5. Change the desired operator information.
6. Select three times to return to the main screen.

Fig. 45

Removing an operator profile

An operator profile cannot be removed if the operator is part of the active task.

Procedure

1. Select the icons in the following order:

2. Select the box below **Name:** (1).
3. Select the desired operator.
4. Select .
5. Select three times to return to the main screen.

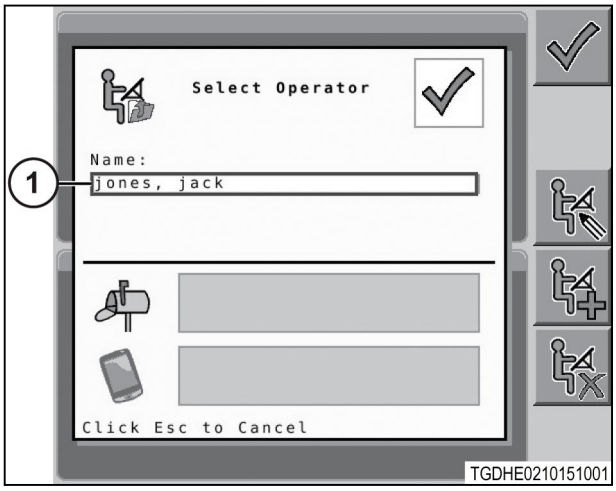


Fig. 46

3.3.10 Product setup

Making a product profile

A product cannot be made when a task is running.

A product is the material to be applied by the machine, such as:
- Corn
- A dry fertilizer
- A liquid chemical

A product group is the type of product, such as:
- Seed
- Dry fertilizer
- Liquid chemical

Procedure

1. Select the icons in the following order.

2. Select the box under **Name** (1).
3. Enter the product name.
4. Select .
   - ° To add the product to a new product group, do the following:
     a) Select .
     b) Enter the product group name.
     c) Select .
   - ° To add the product to an existing product group, do the following:
     a) Select the box under **Product group** (2).

Fig. 47

b) Select the desired product group from the drop-down list.

5. Select four times to return to the main screen.

Selecting a product profile

A product can be added to a task or changed at any time.

Procedure

1. Select the icons in the following order:

2. Select the box below **Product group:** (1).
3. Select the desired product group from the drop-down list.
4. Select the box below **Name:** (2).
5. Select the desired product from the drop-down list.
6. Select the box below **Application type** (3).
7. Select the desired application type from the drop-down list.
8. Select three times to return to the main screen.

Fig. 48

Editing a product profile

A product cannot be changed when the product is part of an active task.

Procedure

1. Select the icons in the following order:

2. Select the box below **Name:** (1).
3. Select the desired product from the drop-down list.
4. Select .

Fig. 49

5. Select the box below **Name** (1).
6. Enter the desired name for the product.
7. Select .
8. Select .
9. Enter the desired name for the product group.
10. Select four times to return to the main screen.

Fig. 50

Removing a product profile

A product cannot be removed if the product group is part of an active task.

Procedure

1. Select the icons in the following order:

2. Select the box below **Name:** (1).
3. Select the desired product from the drop-down list.
4. Select  .
5. Select  four times to return to the main screen.

Fig. 51

Removing a product group profile

A product group cannot be removed if the product group is part of an active task.

Procedure

1. Select the icons in the following order:

2. Select the box below **Name:** (1).
3. Select the desired product from the drop-down list.
4. Select  .
5. Select  .
6. Select  four times to return to the main screen.

Fig. 52

3.3.11 Task Controller operation

Starting a task

Procedure

1. Select  .

2. Make sure the desired task is selected. To change the task:
   a) Select the task name box (1).
   b) Select the desired task from the drop-down list.
3. Select START.

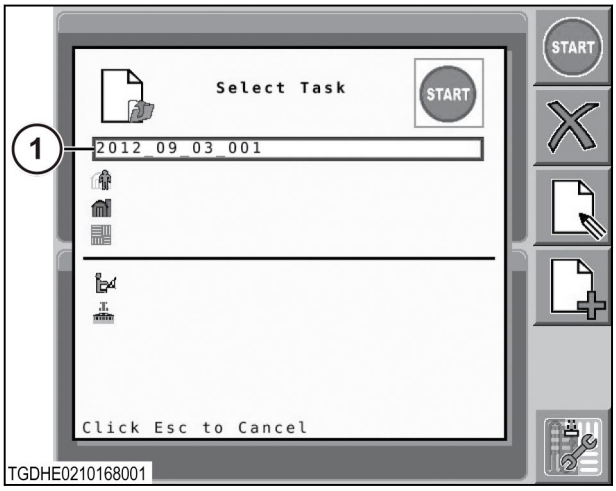


Fig. 53

Stopping a task

Procedure

Select STOP.

3.3.12 Map

Map information box - C1000 terminal

The map information box shows the area around the machine.

To have the map visible, an implement must be selected and GPS data must be available. If no GPS data is available, will show instead of a map. If no implement is selected, will show instead of a map.

To have coverage displayed on the map, behind the implement, the selected implement must turn the work condition on. If the work condition is turned off, no coverage will show on the map.

To add the map information box to the main screen, see the information for changing the information box.

From the map information box on the main screen, the operator can change the zoom level. The half-screen map can change to full screen.

Select to change the zoom level. There are four zoom in settings. The fifth zoom level shows the full field view when in the North Up mode.

Select to see the full screen map.

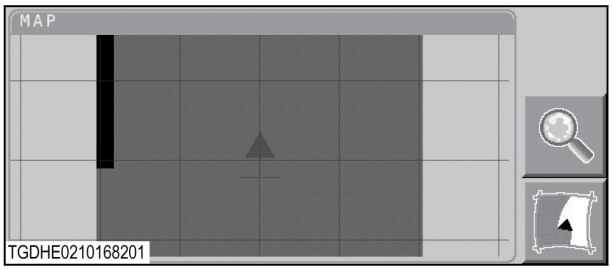


Fig. 54

Full screen map

From the map information box, select  to see the full screen map.

The full screen map shows the area around the machine.

To have the map visible, an implement must be selected and GPS data must be available. If no GPS data is available,  will show instead of a map. If an implement is not selected,  will show instead of a map.

To have coverage displayed on the map, behind the implement, the selected implement must turn the work condition on. If the work condition is turned off, no coverage shows on the map.

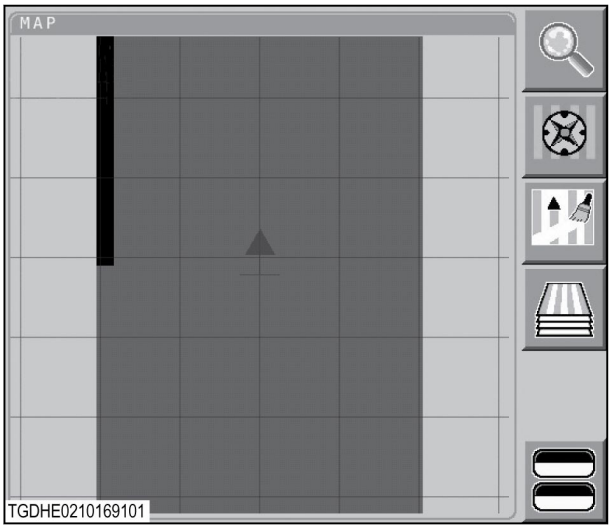


Fig. 55

Select  to zoom in on the map. There are four zoom in settings. The fifth zoom level shows the full field view when in the North Up mode.

From the full screen map, different view angles are available. The icon on the screen shows the next available view angle, not the current view angle.

Icon	Description
	Vehicle direction view
	2.5D vehicle direction view
	North up view

Select  to remove all coverage shown on the map.

Select  to return to the main screen.

Select  to select from the available map layers.

- Coverage - To make a coverage map an implement must be selected with a specific width.
- Boundary - The field boundary file must be imported to show the field boundary on the map.
- Application map - An application map must be imported after being made with farming management information system (FMIS) software.

An empty white box will show next to a layer that is not selected. A white box with a checkmark will show next to a layer selected. A gray box will show next to layers that cannot be selected.

Select  to return to the map.

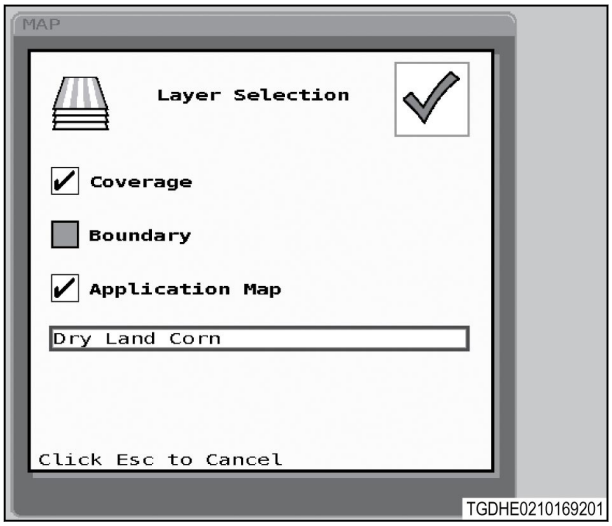


Fig. 56

3.3.13 Summary

Summary information box

To add the summary information box to the main screen, see the information for changing the information box.

The summary information box shows additional task information in real time. The information varies according to the machine and implement connected to the terminal.

Select  to see more task summary information.

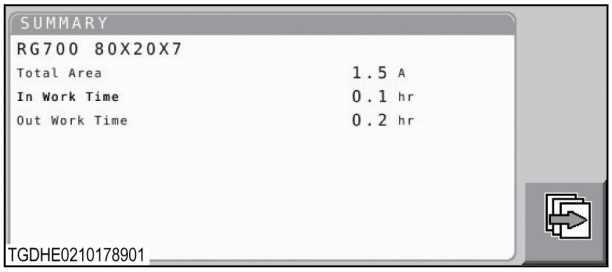


Fig. 57

3.3.14 Control

Control information box

To add the control information box to the main screen, see the information for changing the information box.

The control information box shows information for the products assigned to bins. See the information for product setup.

Each product line can contain information for:

- Bin number
- Product name
- Vertical bar graph with bin content
- Horizontal bar graph with the actual rate (bar) and setpoint rate (line)
- Numerical actual rate and unit of measure
- Chain number

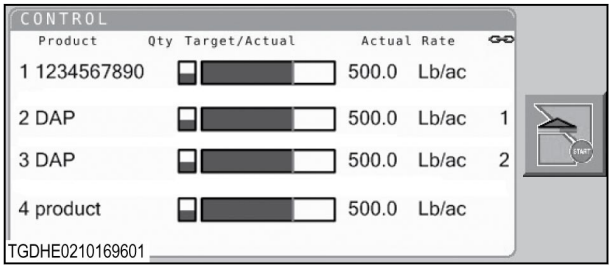


Fig. 58

The section control icon will start and stop section control. See the information for operating section control.

Variable rate application can be monitored from the control information box. See the information for variable rate control.

Operating section control

Section control is the manual rate control for product(s) assigned to the bins of the implement.

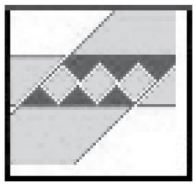
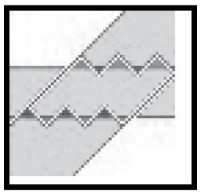
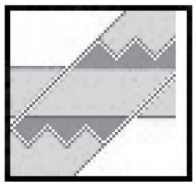
An implement that supports section control must be selected.

The control information box must show on the main screen. See the information for changing the information box.

The map shows the sections turning off and on after section control has started.

Procedure

1. Select  .
2. Select the section control coverage box (1).
3. Select the desired section control coverage.

Icon	Description
	Over coverage – sections will turn off after all the parts of a section have entered the previous coverage area.
	Mixed coverage - sections will turn off when the center and an edge of a section enter the previous coverage area.
	Under coverage - sections will turn off when any part of a section enters a previous coverage area.

4. Enter the section control offsets (2).

   The left/right offset will extend the width of each section. The rear/front offset is a distance value, but functions as a time offset.

5. Select  to start section control and return to the main screen.

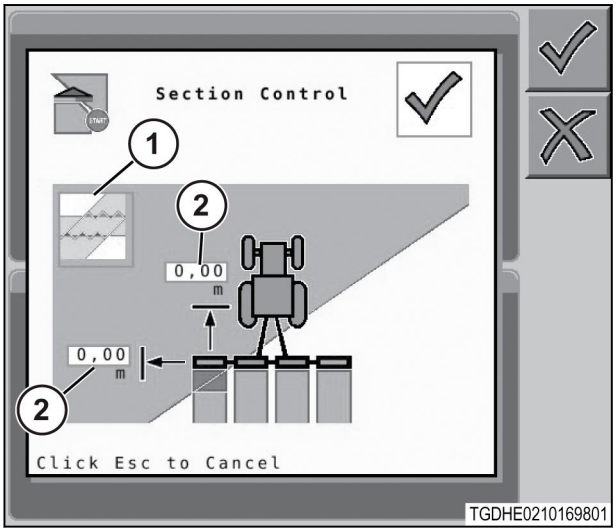


Fig. 59

6. When the operation is complete, select  .

   If the section control is not disengaged, when the task is stopped, application will not be possible until a new task is started because section control will remain active.

3.3.15 Task notes

Task notes information box

The task notes information box gives the operator a location to enter information about the selected task.

To add the task notes information box to the main screen, see the information for changing the information box.

Once a task note is made, the task note cannot be changed or removed.

Fig. 60

Making a task note

Procedure

1. From the task notes information box, select  .
2. Enter the desired information.
3. Select  .

   Result

   The task note will show in the task notes information box on the main screen.

   Once a task note is made, the task note cannot be changed or removed.

3.3.16 Marker setup

Markers information box

A marker gives a name to a specific GPS location and stores the information with the task for reference later.

A marker can show the location of problems such as weeds, insect or weather damage, or foreign objects.

With the markers information box on the main screen, the operator can use five markers. The markers are set while the task is running. See the information for marker setup. To make additional markers. See the information for marker setup.

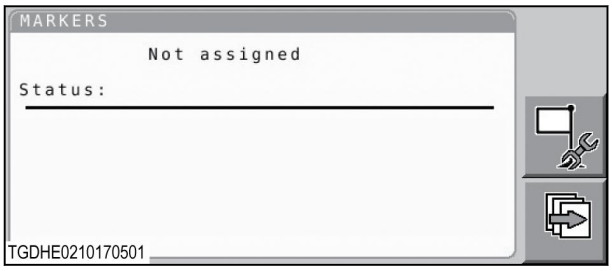


Fig. 61

To add the markers information box to the main screen, see the information for changing the information box.

Not all the markers show at the same time. Select  to see more markers.

Select  to make, edit, or delete markers. See the information for marker setup.

Setting a marker

A marker must be made before the set icons show on the right-hand side of the screen.

To set a point marker, there must be a GPS signal to the terminal and a task must be selected.

To set a continuous marker, there must be a GPS signal to the terminal and a task must be running.

To set a global marker, a task must be selected.

Procedure

1. Select  .

   Result

   For continuous scope type marker, the icon will change to  .
2. If the marker scope type is continuous, select  to end setting of the marker.

Making a marker

The markers information box must show on the main screen. See the information for changing the information box.

Procedure

1. Select the icons in the following order:

   
2. Select the box below **Marker:** (1).
3. Enter the desired marker name.
4. Select  .
5. Add a marker category.

   Adding a marker category is optional. Make a new marker category or select an existing marker category.

   ° To make a new marker category, do the following:

   a) Select  .

   b) Enter the desired marker category name.

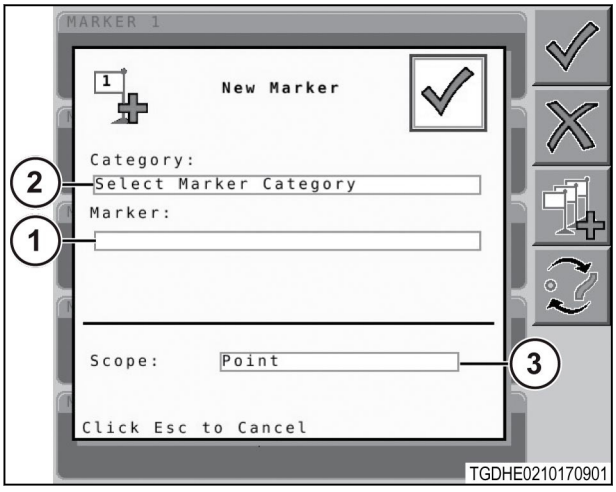


Fig. 62

c) Select .

° To select an existing marker category, do the following:

a) Select the box below **Category** (2).

b) Select the desired marker category from the drop-down list.

6. Select the box next to **Scope** (3).

° Point – a specific GPS location.

° Continuous – a group of GPS points between two markers.

° Global – is applied to a task as a whole and GPS is not necessary.

7. Select three times to return to the main screen.

Selecting a marker

Procedure

1. Select the icons in the following order:

2. Select the box below **Marker:** (1).

3. Select the desired marker from the drop-down list.

4. Select twice to return to the main screen.

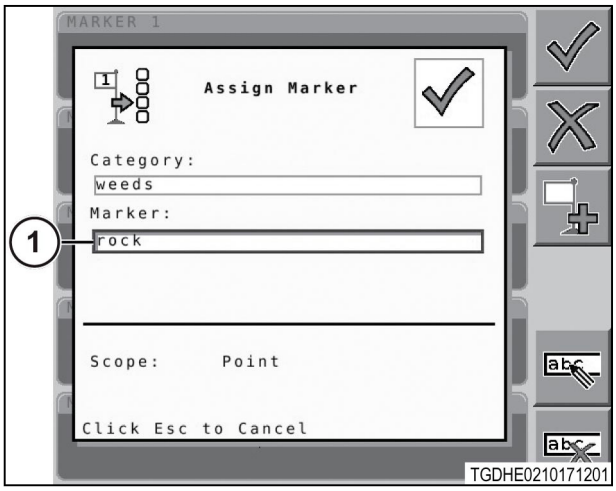


Fig. 63

Editing a marker

A used marker cannot be changed.

Procedure

1. Select the icons in the following order:

2. Select the box below **Marker:** (1).
3. Select  .
4. Enter the desired marker name.
5. Select  .
6. Select the box below **Category:** (2)
7. Select  .
8. Enter the desired marker category name.
9. Select  three times to return to the main screen.

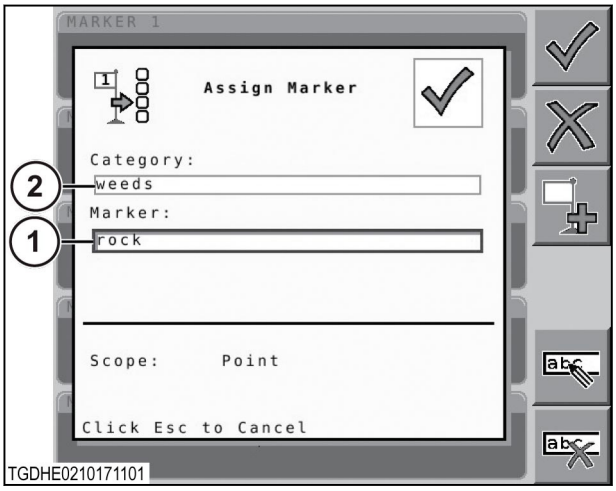


Fig. 64

Removing a marker

A used marker cannot be removed.

Procedure

1. Select the icons in the following order:

2. Select the box below **Marker:** (1).
3. Select  .
4. Select  .
5. Select the box below **Category:** (2)
6. Select  .
7. Select  three times to return to the main screen.

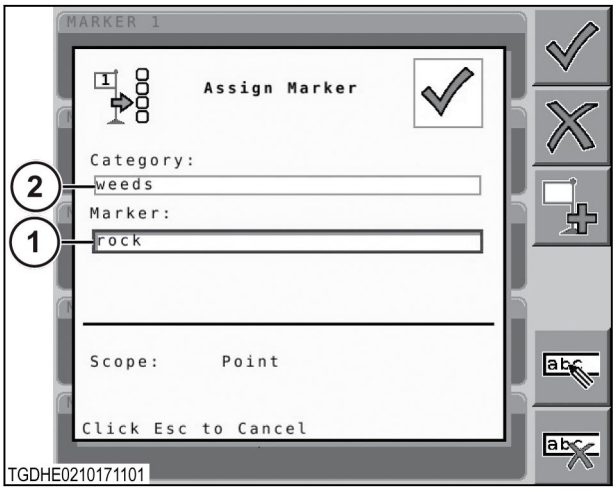


Fig. 65

3.4 Sprayer controller operation

3.4.1 Sprayer main screen overview

(1) Boom sections – shows the on/off condition of each section
(2) Warnings, such as:
- Tank level is low
- No machine speed
- Machine speed too slow
- Machine speed too fast

(3) Application control mode:
- Automatic application control
- Manual application control

(4) Nozzle pressure gauge
(5) Tank level gauge – shows the level of product in the tank
(6) Tank number and the product name the tank contains
(7) Total product applies
(8) Target rate
(9) Actual rate
(10) Total area applied

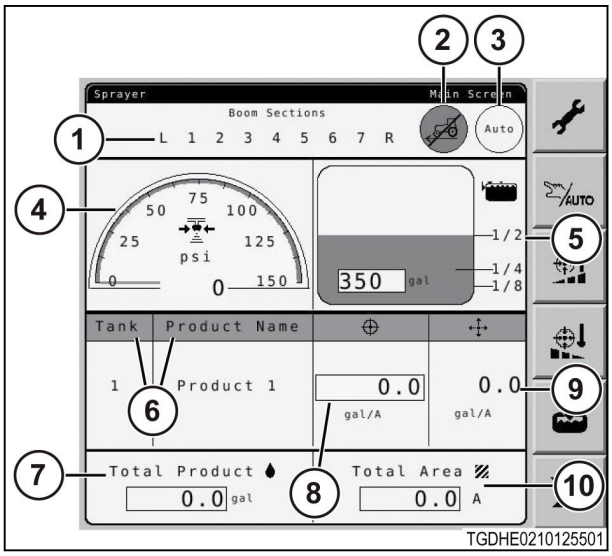


Fig. 66

The sprayer main screen shows the following information:

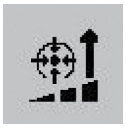
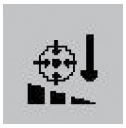
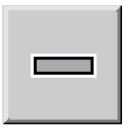
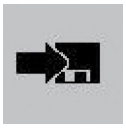
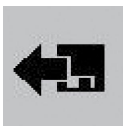
Related Links

Sprayer icon descriptions page 65

Sprayer icon descriptions

A list of icons used within the sprayer software.

Icon	Description
	Accept
	Cancel
	Sprayer setup
	Automatic/Manual rate control

Icon	Description
	Increase application rate in automatic mode
	Decrease application rate in automatic mode
	Increase application rate in manual mode
	Decrease application rate in manual mode
	Tank reload
	Totals
	Return to main screen
	Information
	Save information
	Load information

Icon	Description
	Return to the factory default settings
	More options
	Nozzle information

Related Links

Sprayer main screen overview page 65

3.4.2 Sprayer setup

From the sprayer main screen, select  to see the setup screen.

The sprayer setup screen shows the following information:

- Flowmeter setup
- Valve setup
- Bin setup
- Nozzle pressure range
- Pressure sensor
- Boom setup

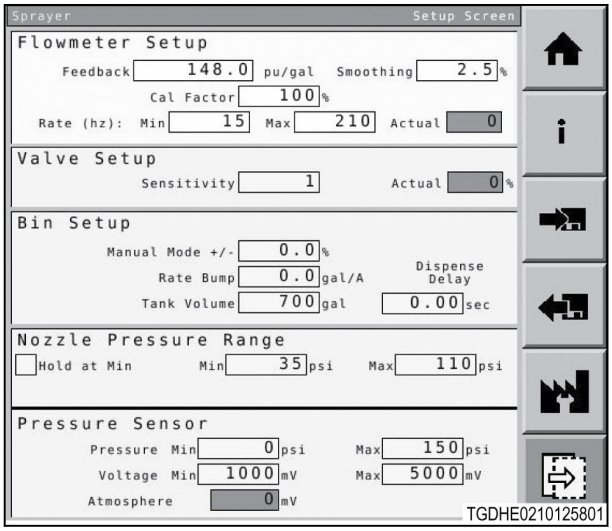


Fig. 67

The values are automatically put in.

Values in a gray box cannot be changed.

Use the scroll wheel to select, change, and keep the values on the setup screen.

Select  to view more setup information.

Select  to calibrate the pressure sensor.

Select  to save the settings.

Select  to load the settings.

Select  to return to the factory settings.

Select  to return to the sprayer main screen.

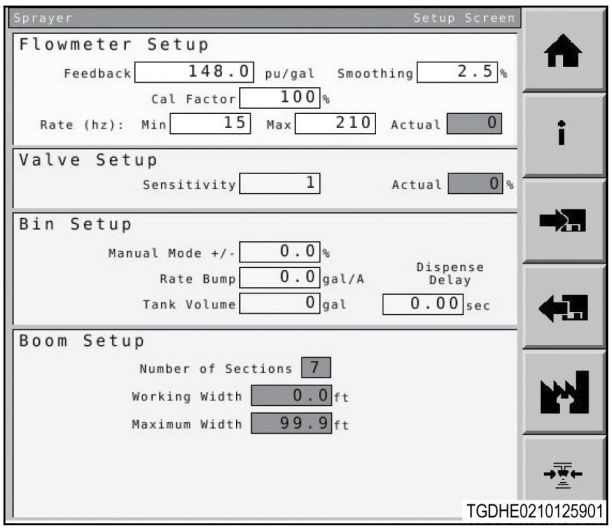


Fig. 67

Flowmeter setup

The flowmeter measures the flow rate of the product.

- **Feedback** – the calibration number for the flowmeter is shown as pulses per litre/gal. The flowmeter is not accurate if the application is showing the same wrong application rate multiple times.

  See the information for calibrating the system. The flowmeter tag feedback shows in pulses per litre/ 10gal.
- **Smoothing** A percentage that smooths the actual rate that is being applied. Example - if the operator is trying to apply 10 gallons/acre, and if smoothing is set at 5%, as long as the actual rate is within 5% of the target, then it will always show 10 gallons/acre, instead of 9.9 or 10.1.
- **Cal Factor** – adjustment of the flowmeter if the calibration number is not accurate.
- **Rate (hz): Min** – the minimum number of pulses generated.
- **Rate (hz): Max** – the maximum number of pulses generated.

  See the information for setting the flowmeter maximum rate value.
- **Rate (hz): Actual** – shows the actual pulses per second or hertz (hz).

Valve setup

The control valve controls the speed of the product pump motor to increase or decrease product flow.

- **Sensitivity** – controls how the valve operates when changes are made.
- The actual rate shows the current control valve output. The actual rate must be at least 40% for product application to occur.
- If the rate convergence is too slow, the valve does not operate quickly when changes are made. Increase the sensitivity value.
- If the rate convergence is too high, actual rate will change quickly and frequently. Decrease the sensitivity value.

Bin setup

Bin setup information includes:

- **Manual mode +/-** – controls the rate at which the manual increase or decrease will open the valve.
- **Rate bump** – the value the rate will increase or decrease in automatic mode.
- **Tank volume** – is the size of the tank. The tank volume determines the 100% reload quantity.
- **Dispense delay** – the average time taken for the product to go from the tank to the nozzles. The dispense delay value must be at least 1.

Nozzle pressure range

Nozzle pressures minimum (**Min**) and maximum (**Max**) are recommendations from the nozzle manufacturer. The minimum and maximum nozzle pressure settings will set the top and bottom of the green bar graph in the nozzle pressure gauge on the main screen. These pressure settings will trigger the alarms, telling the operator that operation is out of the desired pressure range.

The values must be changed each time a different type of nozzle is used.

When there is a checkmark in the box next to **Hold at Min** the system will not drop pressure below the minimum pressure setting to keep the correct spray pattern for the nozzle.

NOTE: *With **Hold at Min** active, over-application can occur in order to keep the spray pattern for the nozzle.*

See the information for calibrating the pressure sensor.

Pressure sensor

The pressure sensor information include:

- **Pressure Min** – the minimum pressure for the pressure transducer
- **Pressure Max** – the maximum pressure for the pressure transducer
- **Voltage Min** – the voltage from the transducer that corresponds to the minimum pressure
- **Voltage Max** – the voltage from the transducer that corresponds to the maximum pressure
- **Atmosphere** – shows the calibrated value of the minimum voltage. This value is the result of running a calibration when there is no pressure on the boom.

Boom setup

The boom setup section shows the boom information.

- Number of sections
- Working width
- Maximum width

3.4.3 Calibrating the system

Procedure

1. Select  .
2. Press in on the scroll wheel.

   Result

   A menu screen will show.
3. Select the icons in the following order.

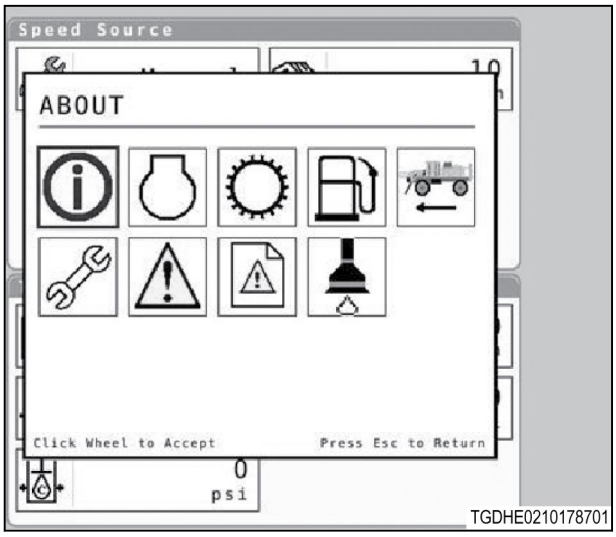


Fig. 68

4. Set the speed source (1) to manual.
5. Adjust the manual speed to the normal operating speed.
6. Fill the tank with enough product to do the calibration.
7. Charge the booms.
8. Weigh the machine.
9. Make sure the correct nozzles are installed.
10. Enter the normal operating rate.
11. Spray product for the desired number of acres.

    The spray amount is based on the type of product in the tank.
12. Calculate the target amount of product applied, using:

    area x volume / acre
13. Weigh the machine.
14. Calculate the actual amount of product applied, using:

    weight difference / density
15. Calculate the new Cal Factor, using:

    old Cal Factor x actual amount / target amount
16. Enter the new Cal Factor value on the setup screen.
17. Change the speed source to auto.

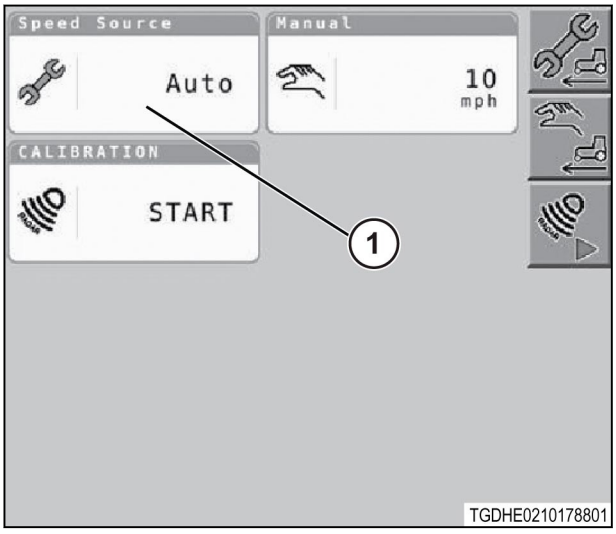


Fig. 69

3.4.4 Setting the flowmeter maximum rate value

Procedure

1. From the sprayer main screen, select  to see the setup screen.
2. Make sure the sprayer is in manual mode.
3. Put the engine at full throttle.
4. Start the sprayer with the PWM valve wide open.

5. Record the value shown in the Rate (hz) **Acutal** rate box.
6. Enter the value in the Rate (hz) **Max** box.
7. Select  to save the settings.

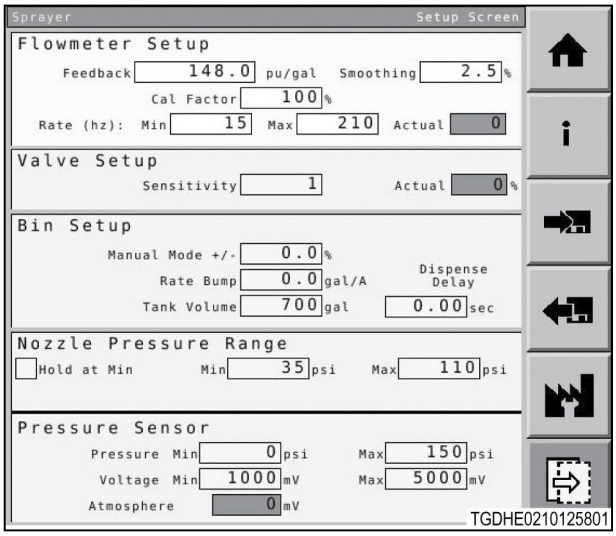


Fig. 70

3.4.5 Calibrating the pressure sensor

The pressure sensor is made to read zero pressure. The pressure sensor must be calibrated regularly because of changes in atmospheric pressures and other conditions, to give an accurate pressure display.

Procedure

1. Release all pressure from the boom(s) and nozzles.
2. Select the icons in the following order

Result

The calibration will automatically start.

3. Wait while the calibration is automatically completed.

Result

A new millivolt reading will be displayed in the **Atmosphere** box.

4. Select the icons in the following order to return to the sprayer main screen.

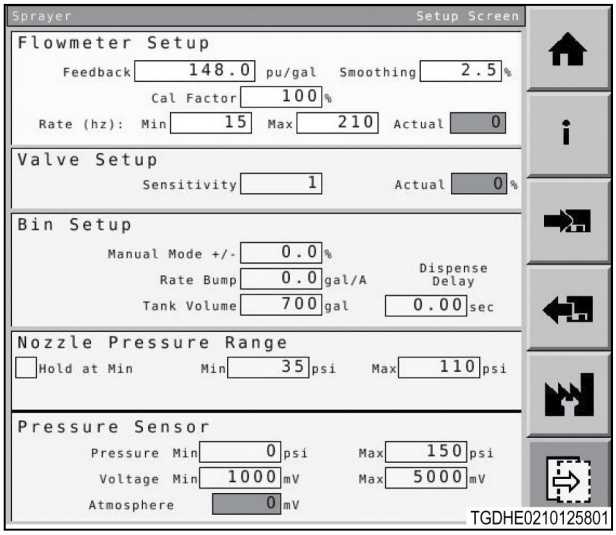


Fig. 71

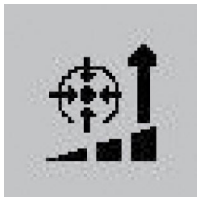
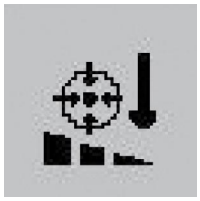
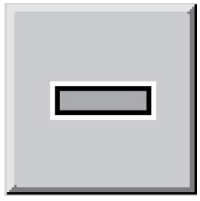
3.4.6 Changing the control mode

Procedure

Select  .

Result

The change the rate icons on the right-hand side of the screen will change.

Icon	Description
Automatic mode	
	Increase application rate
	Decrease application rate
Manual mode	
	Increase application rate
	Decrease application rate

3.4.7 Reloading the tank value

Procedure

1. Load product in the tank(s).
2. Record the amount of product loaded in the tank(s).
3. Select  .

4. Enter the amount of product in the tank(s) by one of the following:
   - Percentage (1)
   - Volume (2)
5. Select  to return to the main screen.

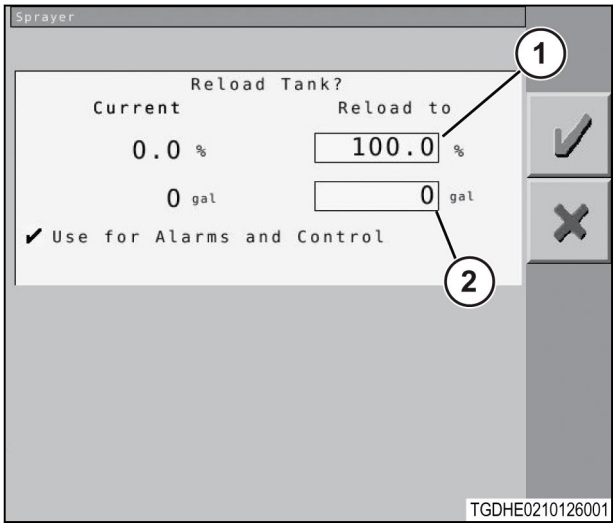


Fig. 72

3.4.8 Totals

From the sprayer main screen, select  .

The total screen shows six different totals:

- Running totals – These four totals (**A**, **B**, **C**, and **D**) can be changed and reset.
- Task total  – shows the active totals for the all tasks. The task total cannot be changed or reset.
- **Lifetime** total – show the total amount of product applied, total spraying time, and area applied for the life time of the controller electronic control unit (ECU). The lifetime total cannot be changed or reset.

Select  to return to the sprayer main screen.

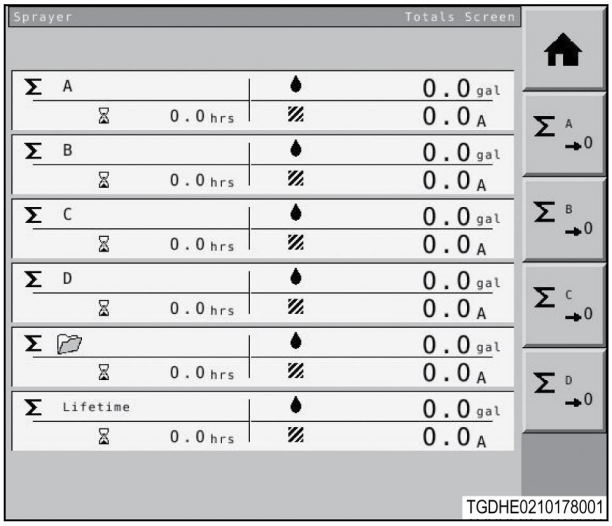
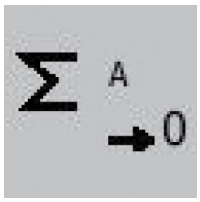
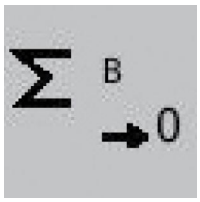
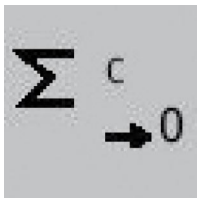
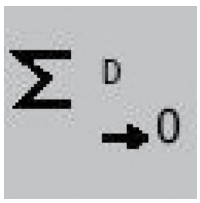


Fig. 73

Resetting a total

Totals **A**, **B**, **C**, and **D** can be set back to zero.

1. Select  .
2. To reset the total select the desired icon:

Icon	Description
	Reset the **A** total
	Reset the **B** total
	Reset the **C** total
	Reset the **D** total

3. Select  .
4. Select  to return to the sprayer main screen.

3.5 Boom settings

Select  to see the boom settings main screen.

The current boom information is available on the boom settings main screen.

The boom settings are setup at the factory.

If changes are necessary, see the information for changing the boom settings, changing the boom location, or making a new boom.

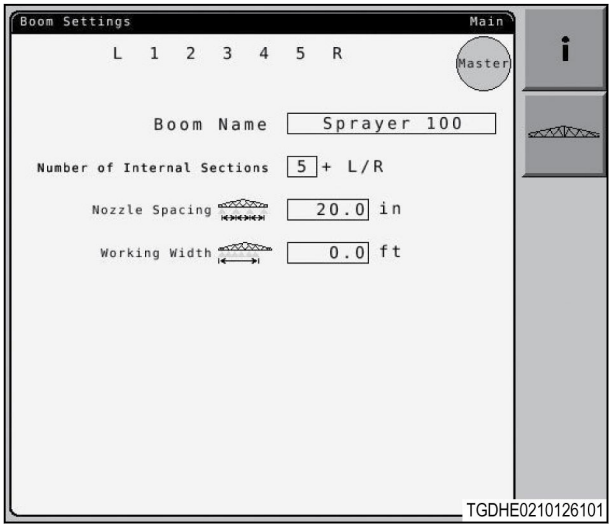


Fig. 74

3.5.1 Changing the boom settings

Procedure

1. Select the icons in the following order.

2. Select the desired information.

   A checkmark must always be in the box next to **Master Apply Switch**.

3. Make the desired changes.

4. Select  .

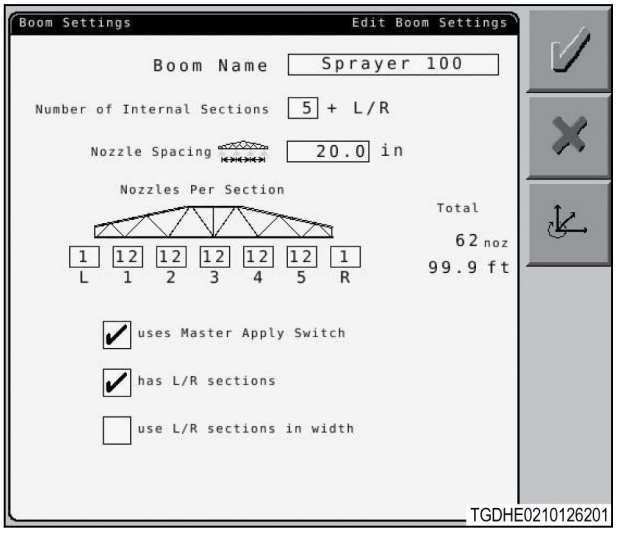


Fig. 75

Related Links

Boom settings page 75

3.5.2 Changing the boom location

NOTE: *This procedure is necessary only if a node is replaced.*

All location directions and measurements are from the center of the rear axle. The left-hand/right-hand measurement is from the center of the rear axle to the center of the boom (usually 0.0). If boom height is adjustable, enter the normal operating height.

Procedure

1. Select the icons in the following order.

2. To change the height of the boom compared to the rear axle, do the following:
   a) Measure and record the height of the boom from the rear axle.
   b) To change the position, select desired arrows.
   c) Select the box (1) and enter the value
3. To change the offset of the boom from the center of the machine , do the following:
   a) Measure the distance between the boom and the center of the machine.
   b) To change the position, select desired arrows.
   c) Select the box (2) and enter the value
4. To change the distance behind the rear axle, do the following:
   a) Measure the distance between the boom and the rear axle.
   b) To change the position, select desired arrows.
   c) Select the box (3) and enter the value
5. Select  twice to return to the boom settings main screen.

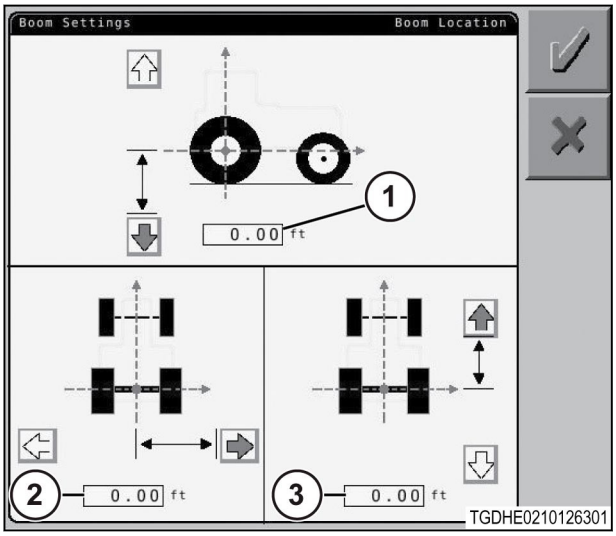


Fig. 76

Related Links

Boom settings page 75

3.5.3 Making a new boom

Procedure

1. Select the icons in the following order:

2. Enter the values for the new boom profile.

   A checkmark must always be in the box next to **Master Apply Switch**.

3. Select  .

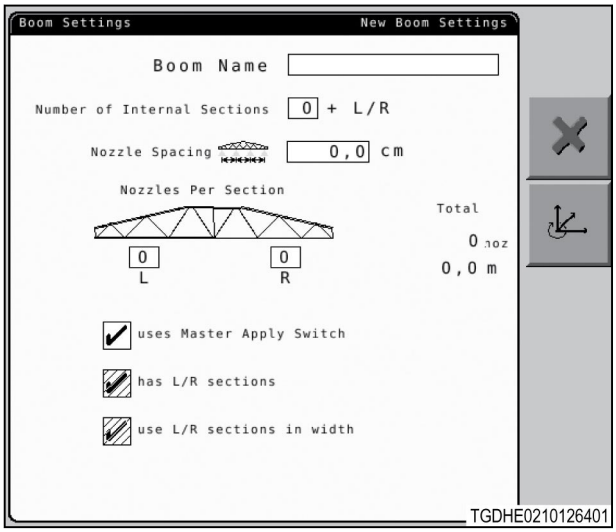


Fig. 77

4. Take measurements and record the values for the following:
   - Boom height
   - Offset of the boom from the center of the machine
   - Distance behind the rear axle

   All location directions and measurements are from the center of the rear axle. The left-hand/right-hand measurement is from the center of the rear axle to the center of the boom (normally 0.0). If boom height is adjustable, enter the normal operating height.

5. Select the box (1) and enter the value for the height of the boom.
6. To change the position (above or below) select the arrows.
7. Select the box (2) and enter the value for the boom offset.
8. To change the position (to the left-hand side or right-hand side) select the arrows.
9. Select the box (3) and enter the value for the distance behind the rear axle.
10. To change the position (to the left-hand side or right-hand side) select the arrows.
11. Select  twice to return to the boom settings main screen.

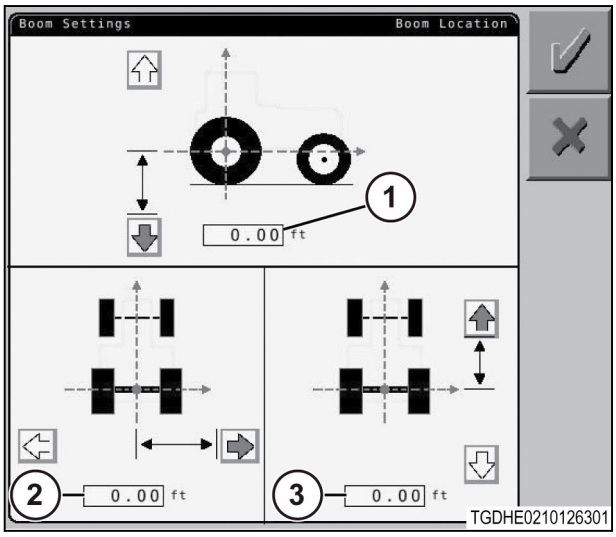


Fig. 78

Related Links

Boom settings page 75

4. Troubleshooting

4.1 Task Controller troubleshooting

Data transfer

Data will not import	
Cause(s)	**Solution(s)**
File name is not correct	Make sure there is a TASKDATA folder on the root level on the external memory device
Data file too large	Make sure TASK DATA contains only necessary information
No space available on the terminal	Export data from the terminal and remove single tasks to free space
No space available on the external memory device	Remove data from the external memory device
	Use an external memory device with larger capacity
Data version not correct	Check FMIS settings - Terminal information shown on information screen

Data will not export	
Cause(s)	**Solution(s)**
Not enough space on external memory device	Remove data from the external memory device

Section control

No recorded data	
Cause(s)	**Solution(s)**
No task running	Make or import a task, select a task, and start a task

Section control not operating	
Cause(s)	**Solution(s)**
No implement selected	Select an implement compatible with section control
Wrong implement selected	Select another implement compatible with section control
No GPS	Make sure the GPS is setup correctly
No task running	Make or import a task, select a task, and start a task
Machine and/or implement outside field boundary	Check the field selection. Select the correct field or make a new field boundary.
Section control is not started	Start section control

Section control not operating correctly	
Cause(s)	**Solution(s)**
Section control settings not selected correctly	Check and change the settings
Poor GPS performance - GPS drift	Adjust the section control offset settings
	Check GPS signal
Machine and/or implement outside field boundary	Check the field selection. Select the correct field or make a new field boundary.

GPS not correct	
Cause(s)	**Solution(s)**
Serial GPS antenna location not correct	Check antenna location settings in the task controller software. See the Task Controller operator manual
NMEA 2000 antenna configuration not correct	See the guidance or antenna operator manual

Cannot make manual rate	
Cause(s)	**Solution(s)**
Product type not correct	Change the implement
	Change the product type

No rate control	
Cause(s)	**Solution(s)**
No task running	Make or import, select, and start a task
No GPS	Make sure the GPS is correctly setup
No product assignment	Assign a product
No implement	Check the implement connection

4.2 Terminal troubleshooting

Terminal will not turn on when the machine is started	
Cause(s)	**Solution(s)**
Bad fuse	Check the fuse and replace
Faulty wiring or connections	Check the wiring and connections to the terminal

Terminal turns on, but the system does not display on the terminal	
Cause(s)	**Solution(s)**
Faulty connection at the terminal	Disconnect the terminal and connect again
Faulty connection at the battery	Disconnect the power at the battery and connect again
Faulty connections or wiring	Check the connections and wiring (check the resistor in the wiring)
	Try another electronic control unit (ECU)
Bad fuse	Check the fuse and replace

Terminal screen locks up	
Cause(s)	**Solution(s)**
	Disconnect the battery power and connect again
	Make sure terminal software is up-to-date

Wrong ECU screen display or display problems	
Cause(s)	**Solution(s)**
	Remove stored object pools from terminal and start again.

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Printed in U.S.A.

Publication No. 568106D1 A Rev. (English)
July 2013