

User Interface Description

NT03 Tractor Terminal

Description of NT03 Valtra User Interface

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Electrics and Electronics

1	Introduction	4
2	Document history	4
3	Abbreviations and descriptions	7
4	References	7
5	NT03 Terminal	7
5.1	Hard keys	8
5.2	Focus navigation	9
6	Valtra application	10
6.1	Menu structure	10
6.2	Themes	11
6.2.1	Night theme	11
6.2.2	Day theme	12
6.3	Tractor settings home	13
6.4	Info quadrants home	15
6.5	Info Popups	17
6.5.1	Main activation info popup	18
6.5.2	Work lights info popup	19
6.5.3	PS gear info popup	19
6.5.4	Range Gear info popup	20
6.5.5	FWD info popup	21
6.5.6	Differential lock info popup	21
6.5.7	Rear Linkage work depth info popup	22
6.5.8	Rear linkage activation/locked info popup	22
6.5.9	Rear linkage state info popup	23
6.5.10	Driving direction info popup	23
6.5.11	Driving mode info popup	24
6.5.12	PTO Rear running info popup	24
6.5.13	PTO Front running info popup	25
6.5.14	Engine RPM Cruise info popup	26
6.5.15	Engine maximum RPM info popup	26
6.5.16	Speed scale info popup	27
6.5.17	Tractor speed cruise info popup	27
6.5.18	Hand throttle info popup	28
6.5.19	Tractor maximum speed info popup	28
6.5.20	Hydraulics function info popup	29
6.5.21	U-Pilot Play Sequence Info Popup	29
6.5.22	Reversible fan Info Popup	30
6.5.23	Auto-Guide engagement failed Info Popup	30
6.5.24	Auto-Guide engaged Info Popup	32
7	Profile management	32
7.1	Default profile	33
7.2	User-created profiles	33
8	Tractor functions	34
8.1	Terminal settings	34
8.1.1	Time popup	36
8.1.2	Date popup	36
8.1.3	Info popup configuration popup	43
8.1.4	Change tractor color popup	44
8.1.5	Available features popup	44
8.1.6	Language popup	46
8.2	Implement settings	47
8.2.1	Implement settings without Auto-Guide	47
8.2.2	Implement settings with Auto-Guide	48

8.3	Camera	51
8.4	Armrest	52
8.5	PTO front	53
8.5.1	Automatic Front PTO configuration popup	54
8.5.2	PTO front info screen	55
8.6	PTO Rear	56
8.6.1	Automatic Rear PTO configuration popup	58
8.6.2	PTO rear info screen	58
8.7	Hydraulics	60
8.7.1	Hydraulics valve settings popup	63
8.7.2	Hydraulics valve allocation popup	65
8.7.3	Hydraulics allocation from Armrest page	66
8.7.4	Hydraulics info screens	68
8.8	Engine	69
8.9	Lights	73
8.10	Rear linkage	75
8.10.1	Rear linkage info screen	77
8.11	Front linkage	81
8.11.1	Front linkage info screen	81
8.12	Steering settings	83
8.13	Suspension settings	85
8.14	Front loader	86
8.15	Transmission	88
8.15.1	Transmission settings - Versu	88
8.15.2	AUTO mode setting popup	92
8.15.3	Transmission settings - Direct	93
8.15.4	Transmission settings popup	94
8.15.5	Transmission info screen	97
8.16	U-Pilot	102
8.16.1	Single Actions management	102
8.16.1.1	List of Single Actions (under development)	106
8.16.2	Sequence management	108
8.16.2.1	Recording actions	109
8.16.2.2	List of sequence actions (under development)	111
8.16.3	U-Pilot info screen	114
8.16.4	U-Pilot error popup	115
8.17	Tractor health	116
8.17.1	Tractor health info screen	120
8.18	Counters	120
8.18.1	Counter info screens	124
8.19	Fan settings	125
8.20	Connectivity	126
8.20.1	USB data transfer	127
8.20.1.1	Data exchange warning popups	129
9	Precision Farming	132
9.1	Auto-Guide	132
9.1.1	Wayline catch up popup	134
9.1.2	Auto-Guide System Info popup	135
9.1.3	Add new wayline - GO! mode	138
9.1.4	Add new wayline - Advanced	140
9.1.5	Wayline types recording	142
9.1.6	Connection settings popup	146
9.1.7	Fields configuration popup	152
9.1.8	Add new field popup	153

9.1.9	Waylines configuration popup	154
9.1.10	Add field border	154
9.1.11	Obstacles configuration popup	155
9.1.12	Add new obstacle	156
9.1.13	Calibrations popup	157
9.1.14	Alarm settings popup	158
9.1.15	Manual nudge offset setting	159
9.2	Field Map	160
9.2.1	Marker settings popup	166
9.2.2	Track settings popup	166
9.2.3	Prescription map settings popup	166
9.2.4	As-applied map settings popup	166
9.2.5	Auto-Guide Informative / Error Message Popup	166
9.3	Field Map 2.0	167
9.3.1	Map side menu	168
9.3.1.1	GO!-mode	169
9.3.1.2	Field mode	170
9.3.1.3	Settings mode	171
9.3.2	Fields	171
9.3.3	Markers	173
9.3.4	Waylines popup	176
9.3.4.1	Waylines coordinate info	177
9.3.5	GO!-mode REC	179
9.3.6	Add new wayline	180
9.3.7	Add new wayline popup	182
9.3.8	Add new boundary	185
9.3.9	Nudge Offset settings	187
9.3.10	Map layers	189
9.3.11	Variable Rate Control status	190
9.3.12	Correction signal popup	191
9.3.13	Correction signal accuracy	192
9.3.14	Auto-Guide status	193
9.4	ISOBUS UT	195
9.4.1	ISOBUS UT Settings	196
9.5	Section control	200
9.6	Task management	204

1 Introduction

This document describes different features and functions of Valtra NT03 Tractor Terminal User Interface.

2 Document history

Date	Author	Description of changes
2016-02-19	JKo	Initial version
2016-08-19	JKo	Add initial set of info popups Update terminal settings page Add Info popup configuration part

		- Remove units popup Update Hydraulics pages - Remove JS safety speed setting - New layout Update icon for home page Armrest button Update Work lights page - Remove courtesy light setting Update transmission settings popup - New tab based popup - New Launch assistant setting Update Counters page - Remove 3D-valve icons
2016-10-06	JKo	Updated Transmission info screen
2016-10-17	JKo	Updated: - U-Pilot actions - Transmission settings - Transmission info screen - Rear linkage slip control setting - Terminal settings page (tractor color setting) - Driving mode info popup image - Hand throttle info popup image Added: - AUTO mode settings popup - Default info popup configuration to section Info popup configuration popup - Rear linkage activation/locked info popup - Change tractor color popup
2016-10-25	JKo	Update transmission info image for manual mode
2016-11-17	JKo	Add more precise description for each function. Update screenshots.
2016-11-28	JKo	Add more precise descriptions.
2016-11-29	JKo	Add Hydraulics virtual valve settings popup requirement
2016-11-30	JKo	Add initial version from Auto-Guide
2017-01-13	JKo	Add U-Pilot error popup Add selected correction signal indicator icons Add cross track display icons Add steering controller status display icons
2018-11-20	HOi	 NT03VUI-770 - Focus navigation -> new picture  NT03VUI-784 - Tractor settings home page > new picture  NT03VUI-804 - Auto theme change setting -> function removed  NT03VUI-768 - Implement settings page -> own settings for front and rear implements  NT03VUI-811 - Implement settings page - with AutoGuide -> own settings for front and rear implements  NT03VUI-819 - Camera page -> infotrack removed 

		•  NT03VUI-677 - PTO Front settings page -> Front Auto PTO added, start ramp removed •  NT03VUI-771 - Terminal settings page -> new picture and removed auto theme changing •  NT03VUI-807 - Available features popup -> new layout •  NT03VUI-853 - Tractor health page -> new picture •  NT03VUI-844 - ISOBUS UT page -> infotrack removed •  NT03VUI-845 - ISOBUS UT settings page -> new layout •  NT03VUI-957 - Auto-Guide Add new wayline - GO! mode -> new pictures •  NT03VUI-977 - Auto-Guide Add new wayline - Advanced mode -> new pictures •  NT03VUI-990 - Auto-Guide - Alarm settings popup -> new layout •  NT03VUI-1028 - Field map page > new layout, added VRC content •  NT03VUI-1032 - Field map side menu -> new layout •  NT03VUI-483 - Task management -> new layout •  NT03VUI-961 - GPRS settings -> dial setting removed
2019-1-22	HOi	 NT03VUI-952 - Auto-Guide System Info tab -> added steering used in 60sec status  NT03VUI-953 - Auto-Guide System Info - GO! -> added steering used in 60sec status  NT03VUI-874 - Counter settings page -> picture updated
2019-3-29	JKo	Add Precision Farming subtitle. Start documenting Map 2.0. Added following chapters: 9.3 Field Map 2.0 9.3.1 Map side menu 9.3.1.1 GO!-mode 9.3.1.2 Field mode 9.3.1.3 Settings mode 9.3.2 Add new wayline 9.3.3 Add new boundary
2019-4-1	JKo	Added: 9.3.3 Add new wayline popup 9.3.5 Nudge Offset settings Updated: 9.3.4 Add new boundary
2019-4-5	JKo	Updated: 8.19 Fan settings
2019-4-8	JKo	Added: 6.5.23 Auto-Guide engagement failed Info Popup 6.5.24 Auto-Guide engaged Info Popup 9.3.2 Fields 9.3.3 Markers 9.3.4 Waylines popup 9.3.4.1 Waylines coordinate info 9.3.5 GO!-mode REC 9.3.10 Map layers 9.3.11 Variable Rate Control status 9.3.12 Correction signal popup 9.3.13 Correction signal accuracy 9.3.14 Auto-Guide status Updated: 9.3.9 - Nudge Offset settings
2019-4-9	JKo	Added: 8.20 Connectivity 8.20.1 USB data transfer

2019-4-10	JKo	Added: 8.20.1.1 Data exchange warning popups
2019-5-9	JKo	Updated: Fan page

3 Abbreviations and descriptions

Abbreviations	Description
NT03	Name of the terminal
UI	User interface (In this context tractor terminal UI)
FMIS	Farm Management Information Software

4 References

Following document are in connection with this document:

N°	Document name	Version
1	GD_Routing_Z20.xls	GD-index definitions

5 NT03 Terminal

NT03VUI-836 - NT03 Valtra terminal



5.1 Hard keys

NT03VUI-773 - Terminal hard keys

NT03 has a 9" capacitive touch screen for fast and intuitive navigation and ease of use, but it is also possible to use NT03 completely with hard keys and a scroll wheel. Hard keys are also used to navigate between settings and info home pages and to switch color theme of the application.

NT03 has 6 hard keys with following functionality:

1. OK -
OK key is used to press the currently focused item. Depending on the item's type this can be a simple button click or it e.g. activates the item.
2. Return -
Return is used to return to previous page or value. This also discards all the changes made in the page/popup. If return is used with activated component it returns to previous value and deactivates the component.
3. Home -
Home key returns the user to settings home screen. Changes made in the open page/popup are saved.
4. Info Quadrants -
Info Quadrants button takes the user to info home screen. Changes made in the open page/popup are saved.
5. Power -
With power button it is possible to change the theme of the application or to turn the display off. It toggles between these states Night mode – Day Mode – Display off – Night mode etc.
6. Scroll wheel -
For focus navigation and interaction with user interface components.

[ Draft]

NT03VUI-774 - Terminal hard key - OK



OK key is used to press the currently focused item. Depending on the item's type this can be a simple button click or it e.g. activates the item.

[ Draft]

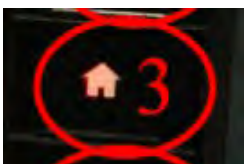
NT03VUI-775 - Terminal hard key - Return



Return is used to return to previous page or value. This also discards all the changes made in the page/popup. If return is used with activated component it returns to previous value and deactivates the component.

[ Draft]

NT03VUI-776 - Terminal hard key - Home



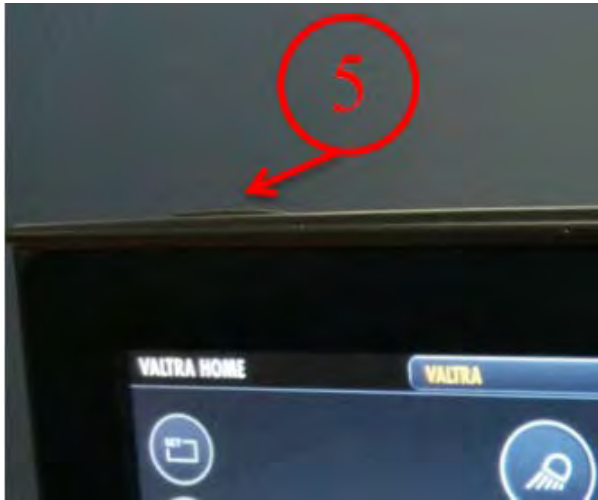
Home key returns the user to settings home screen. Changes made in the open page/popup are saved. [ Draft]

NT03VUI-777 - Terminal hard key - Info Quadrant



Info Quadrants button takes the user to info home screen. Changes made in the open page/popup are saved. [✎ Draft]

NT03VUI-778 - Terminal hard key - Power



With power button it is possible to change the theme of the application or to turn the display off. It toggles between these states
Night mode – Day Mode – Display off – Night mode etc. [✎ Draft]

NT03VUI-779 - Terminal hard key - Scroll wheel



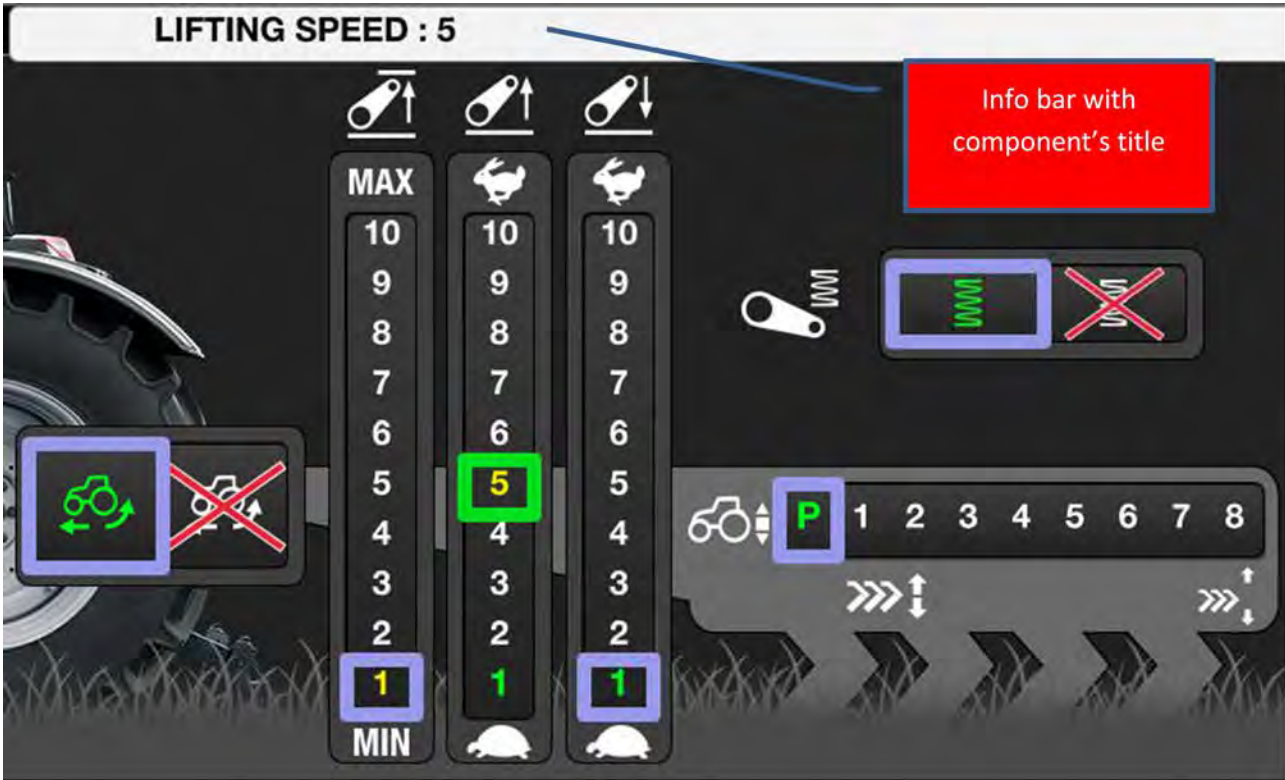
For focus navigation and interaction with user interface components. [✎ Draft]

5.2 Focus navigation

NT03VUI-770 - Focus navigation



With scroll wheel (6) it is possible to move focus on the screen either forwards or backwards. Each scroll wheel step moves the focus to next item on the screen. Focus will also move from touch events, so it is possible to seamlessly combine usage of these two navigation methods. Every time a component gets focused a small information bar on the top of the screen is displayed. This information bar shows the title text of the currently focused item. So for example if the user doesn't recognize a settings component's functionality from its icon, by focusing this item with the scroll wheel its title text is displayed.



Draft] 

6 Valtra application

6.1 Menu structure

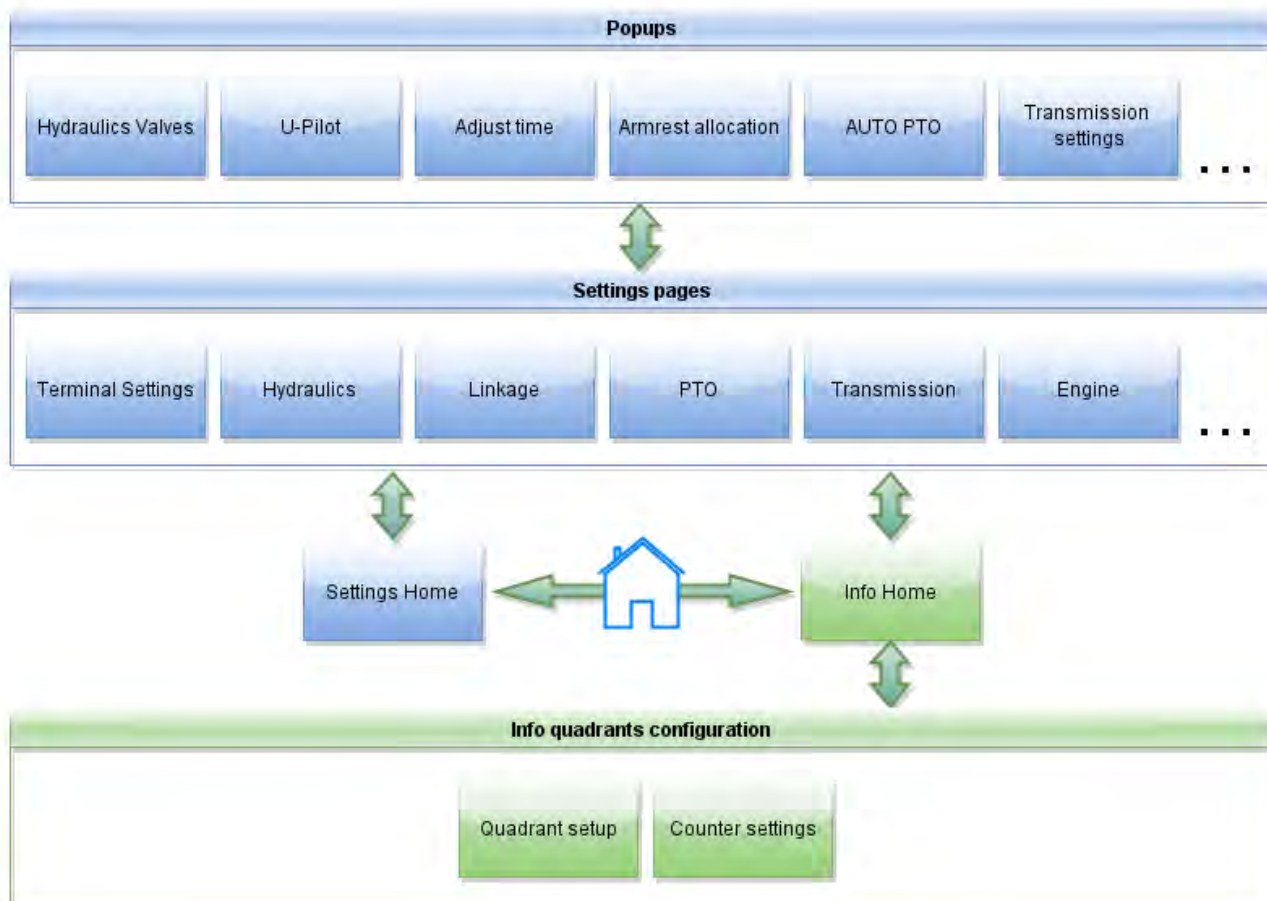
NT03VUI-780 - Application menu structure

NT03 menu structure is designed so that every setting should be available within three navigation levels. These levels are:

1. Home (Settings/Info)
2. Settings pages
3. Settings popups

Frequently used settings are usually found from the Settings pages level. Some settings are on the Popups level for convenience

or because those settings are unfrequently used.



Draft]

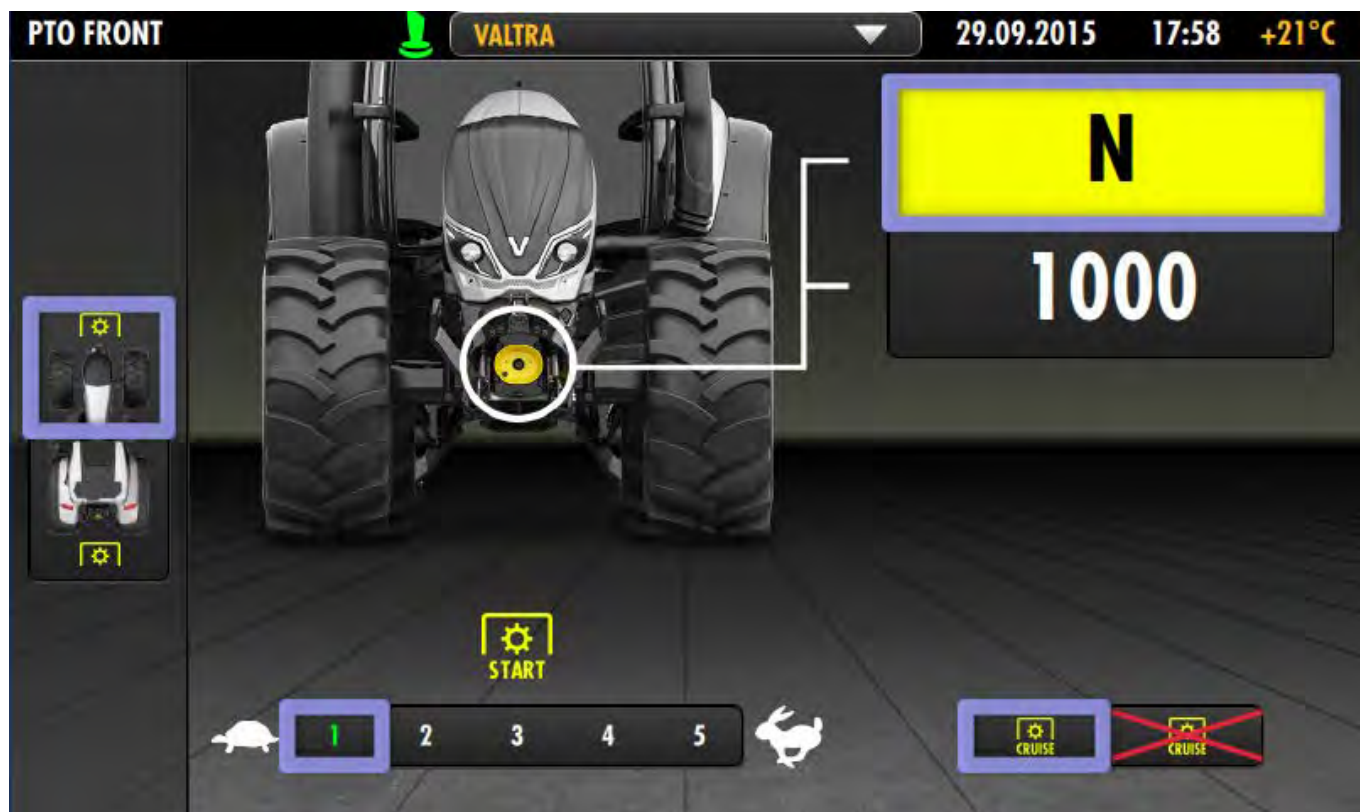
6.2 Themes

NT03VUI-781 - Application themes

Valtra application has two themes called Night and Day. Night theme is the default theme and it has dark color scheme whereas Day theme is bright with high contrast on texts and icons. Day theme is ideal when light conditions require high contrast on display. Changing between these themes is done from terminal's power hard key. Theme change can also be automated from terminal settings page. [Draft]

6.2.1 Night theme

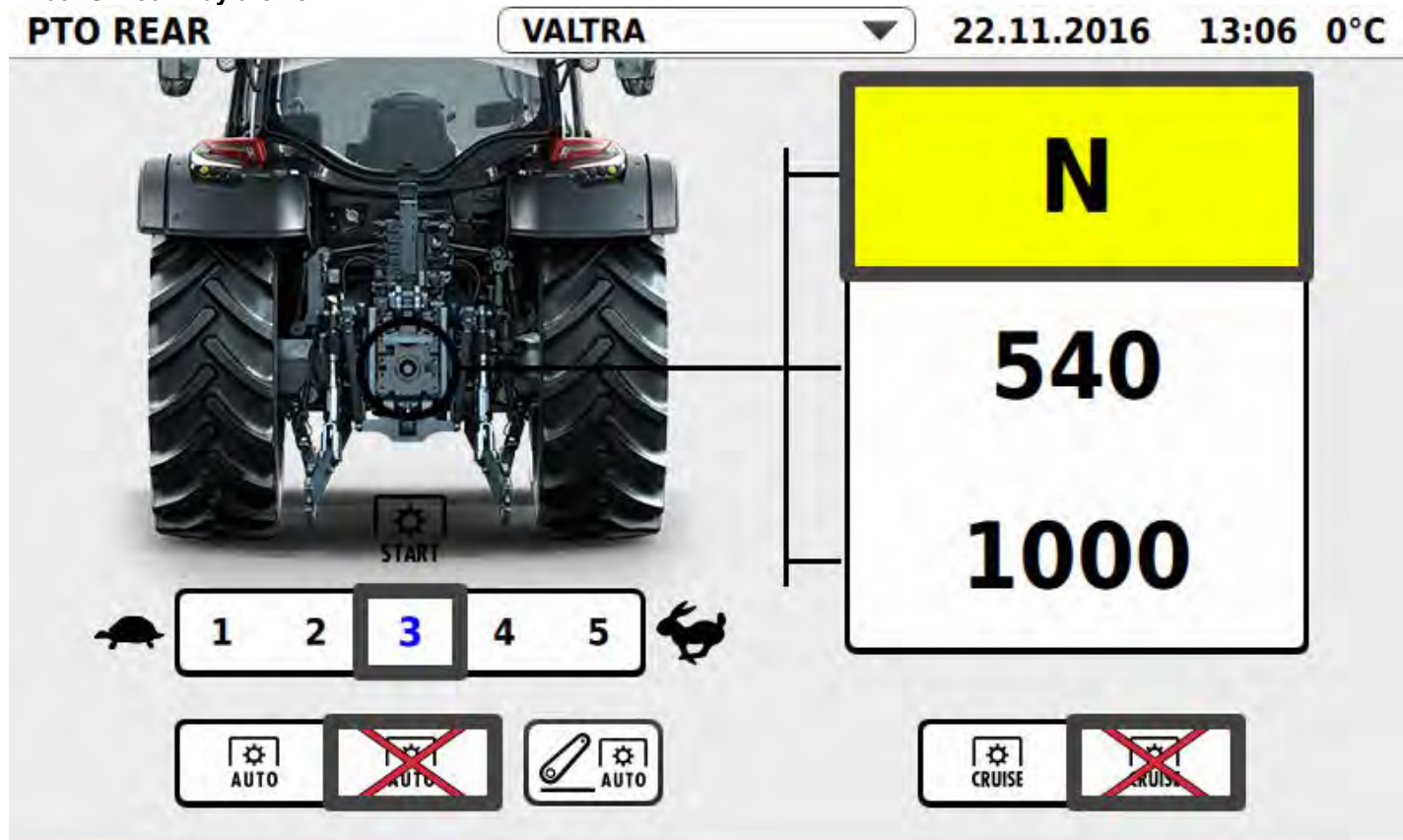
NT03VUI-782 - Night theme



Draft]

6.2.2 Day theme

NT03VUI-783 - Day theme



Settings and information is displayed in high contrast. [Draft]

6.3 Tractor settings home

NT03VUI-784 - Tractor settings home page

Settings pages can be accessed from the settings home screen. Settings home screen has two sides, one for settings related to front side of the tractor and another for settings related to rear side of the tractor (e.g. front hydraulics/rear hydraulics). Buttons are placed on top of a 3D tractor close to places where these tractor features are in a real tractor. Some smaller buttons are placed on sides of the home page.

Switching between front and rear settings can be done by tapping the double arrows button, or by tapping the background image.

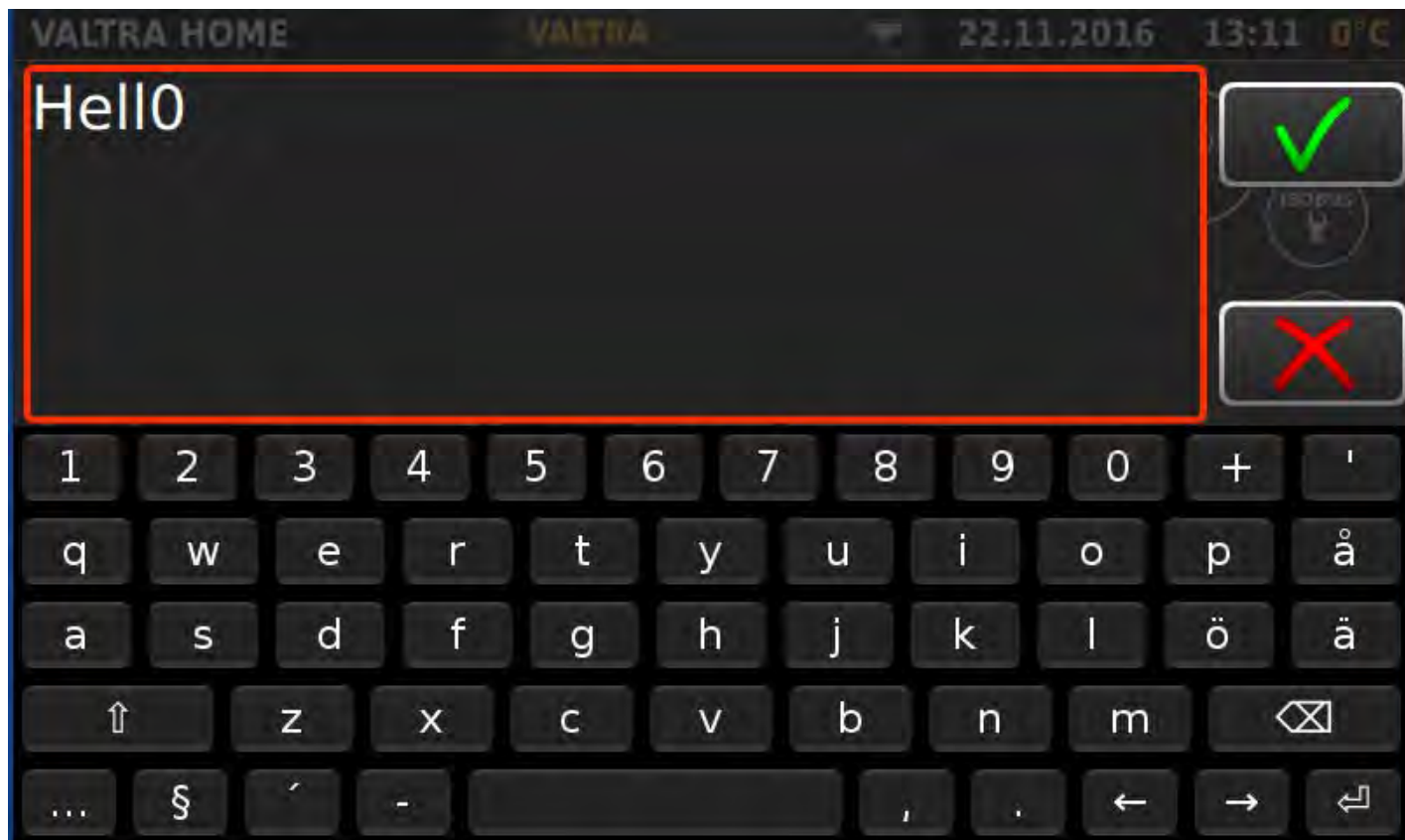


Notebook and calculator are also available from the settings home screen. Written notes can be seen on the bottom bar and they can be edited by tapping the notes text. Notes are saved under the active profile. Calculator can be opened by tapping the CALC text on the right side of the bottom bar. [Draft]

NT03VUI-785 - Notes



User can enter simple notes by opening a keyboard from the bottom bar on home screen.



Notes can be written with the keyboard.



Written notes can be seen on the bottom bar and they can be edited by tapping the notes text. Notes are saved under the active profile.

[ Draft]

NT03VUI-786 - Calculator



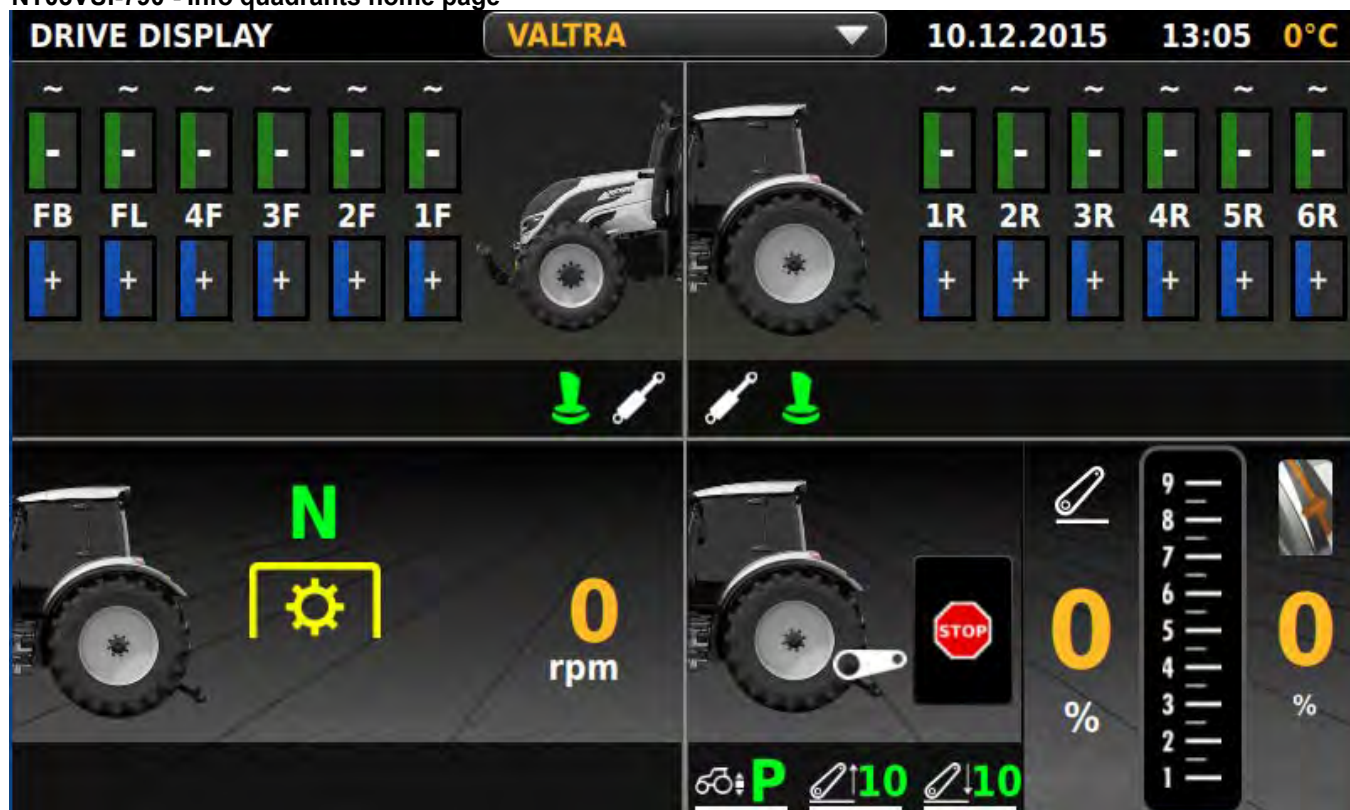
Calculator can be opened by tapping the CALC text on the right side of the bottom bar.



Previous calculations can be seen on top of the current calculation. [✎ Draft]

6.4 Info quadrants home

NT03VUI-790 - Info quadrants home page



Info quadrants display information related to tractor, implements and work tasks. Info screens are categorized to match the settings pages categories (e.g. Rear linkage settings page – Rear linkage info screen). By default each quadrant contains all of the 19 available info screens. User can change visible info screens in a quadrant by swiping the corresponding screen or by first tapping the screen and then using left/right arrows on the screen. When an info quadrant is tapped arrow keys for navigation becomes visible and also a side menu slides in.



From the side menu it is possible to toggle between full screen/quadrant modes, to open info quadrant configuration popup or go to settings page related to selected info screen.

In info quadrant configuration popup it is possible to select info screens for the selected quadrant. The user could e.g. set front hydraulics and rear hydraulics info screens to top left quadrant and front PTO and rear PTO info screens to top right quadrant. This way it is fast to get the necessary information on the screen without having to scroll through every info screen.



Every time info quadrant set up is changed it is stored under the active profile so it is possible to have different info quadrant set ups for different profiles. [✎ Draft]

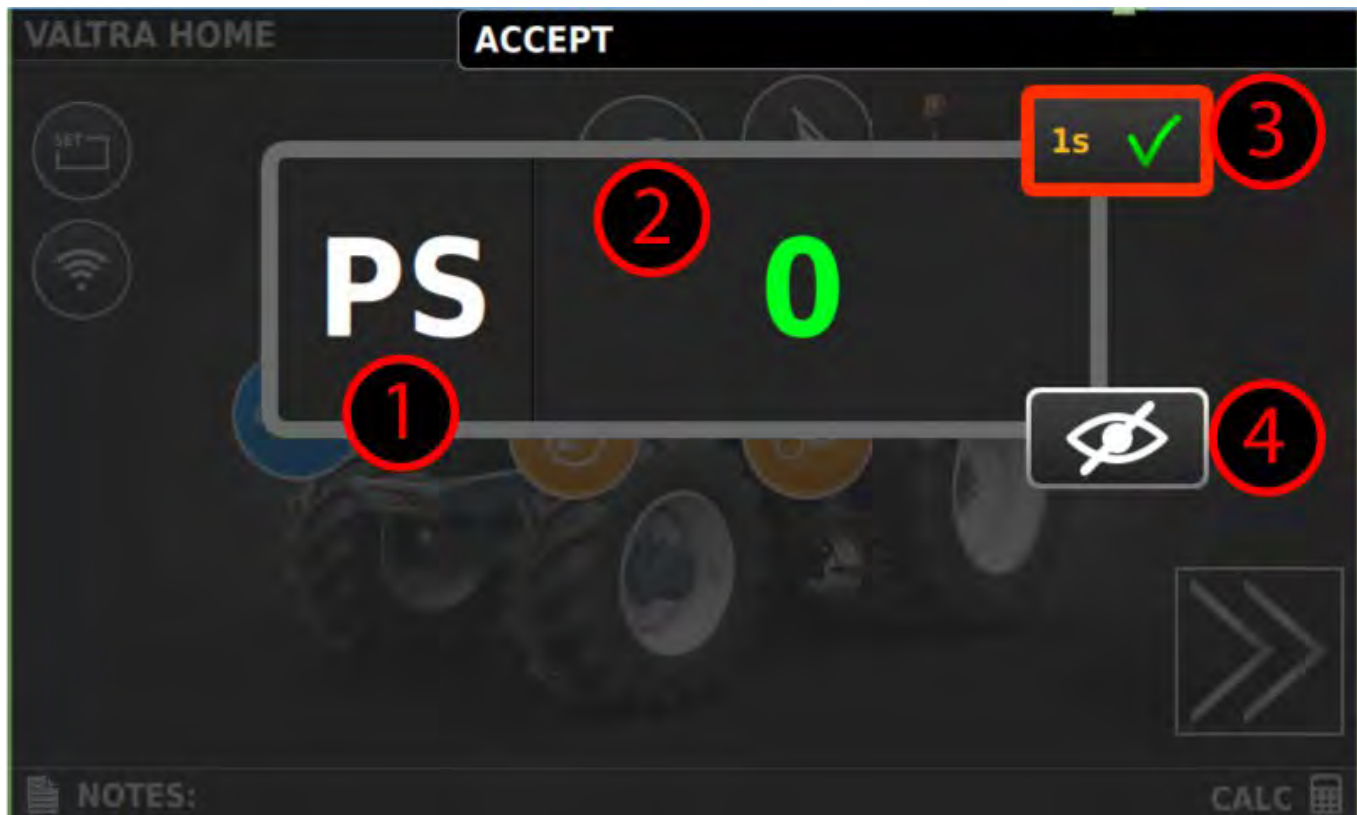
6.5 Info Popups

NT03VUI-749 - Info popups

There is a number of different information popups shown to the user. These popups will be shown on top of the screen to display different information/warnings about the tractor system or e.g. to confirm use of different controlling devices. There can be at most two different information popups visible at the same time (e.g. U-Pilot sequence info and range gear change info). These popups are prioritized so that the most critical information will surely be displayed to the user.

It is possible for the user to disable these popups either for a session (until next reboot) or for a life time requiring that the popups are not safety critical. Low priority popups can be disabled for a life time and higher priority popups for a session. Disabling an Info popup for a session can be done by tapping on hide button of the Info Popup or from the Info Popup management screen found from the Terminal Settings page. Disabling popups for a life time is only available from the management popup.

Most info popups are only displayed when the tractor's engine is running. Only exceptions are info popups where it is possible for user to make some settings e.g. Master activation info popup and Work lights info popup. These are shown even if the engine is not running.



Basic info popup template:

1. Title
2. Content/Information
3. Acknowledge info and remove from screen for now. Will automatically do so in 2 seconds by default. Timer is visible on the button.
4. Hide info popup for a session. This info popup will not be shown until next reboot unless re-enabled from terminal settings.

[ Draft]

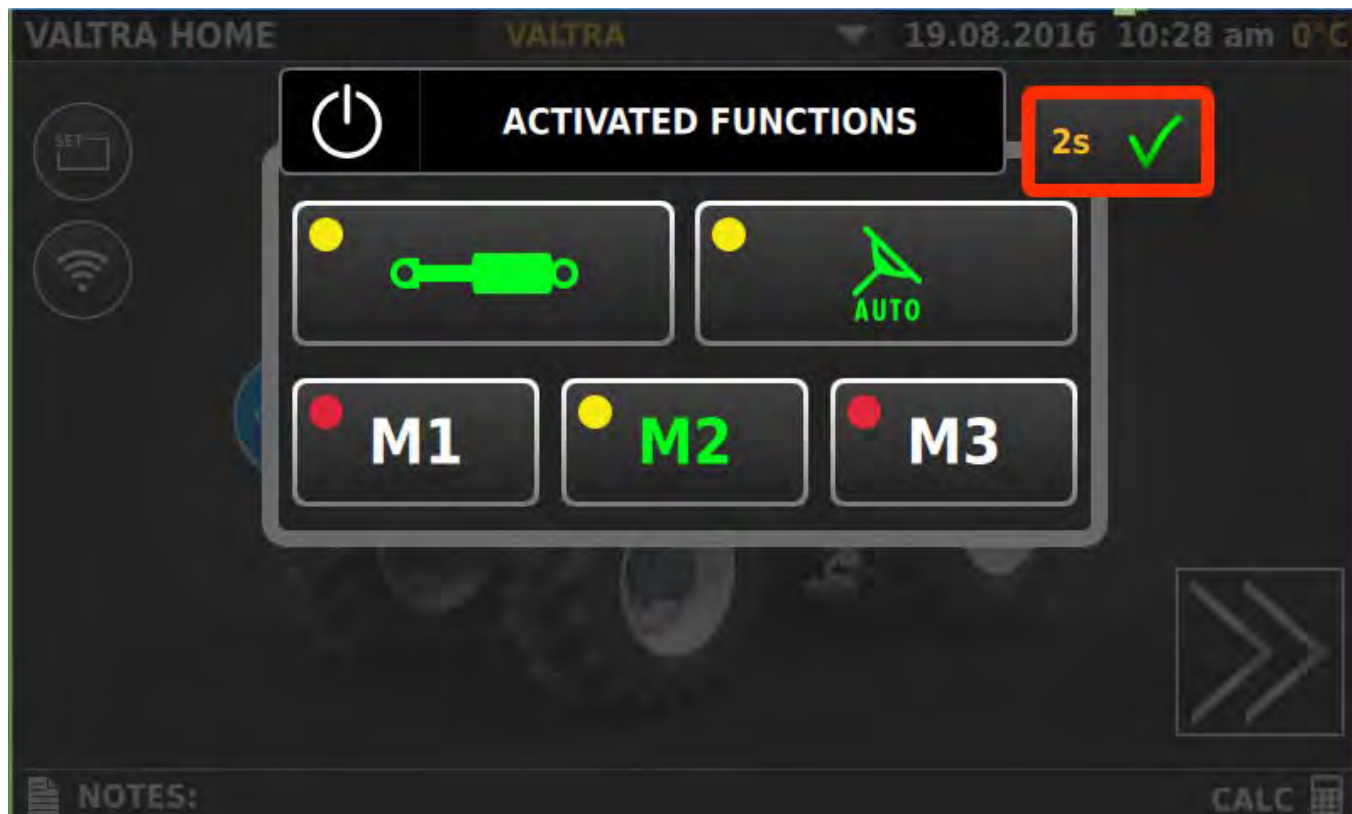
6.5.1 Main activation info popup

NT03VUI-750 - Main activation info popup

Main activation info popup displays which tractor functions are enabled when physical activation button on Valtra armrest is pressed. This popup is displayed every time the armrest button is pressed and functions are activated. The user can also change the functions to be activated straight from this popup. It is possible to open this popup without enabling/disabling functions by long pressing the activation button on armrest.



Activation button on armrest.



This popup is also displayed at start up to confirm if active functions from previous session should be activated or not.

By default this info popup is visible for 5 seconds after the armrest button is pressed but the timer is stopped if the user changes the configuration.

Following functions can be activated from the activation button on armrest if they are enabled on activation popup:

- Tractor hydraulics
- Auto-Guide
- M1,M2 and M3 programmable buttons of headland management

This popup can not be hidden by the user. [Reviewed]

6.5.2 Work lights info popup

NT03VUI-732 - Lights info popup

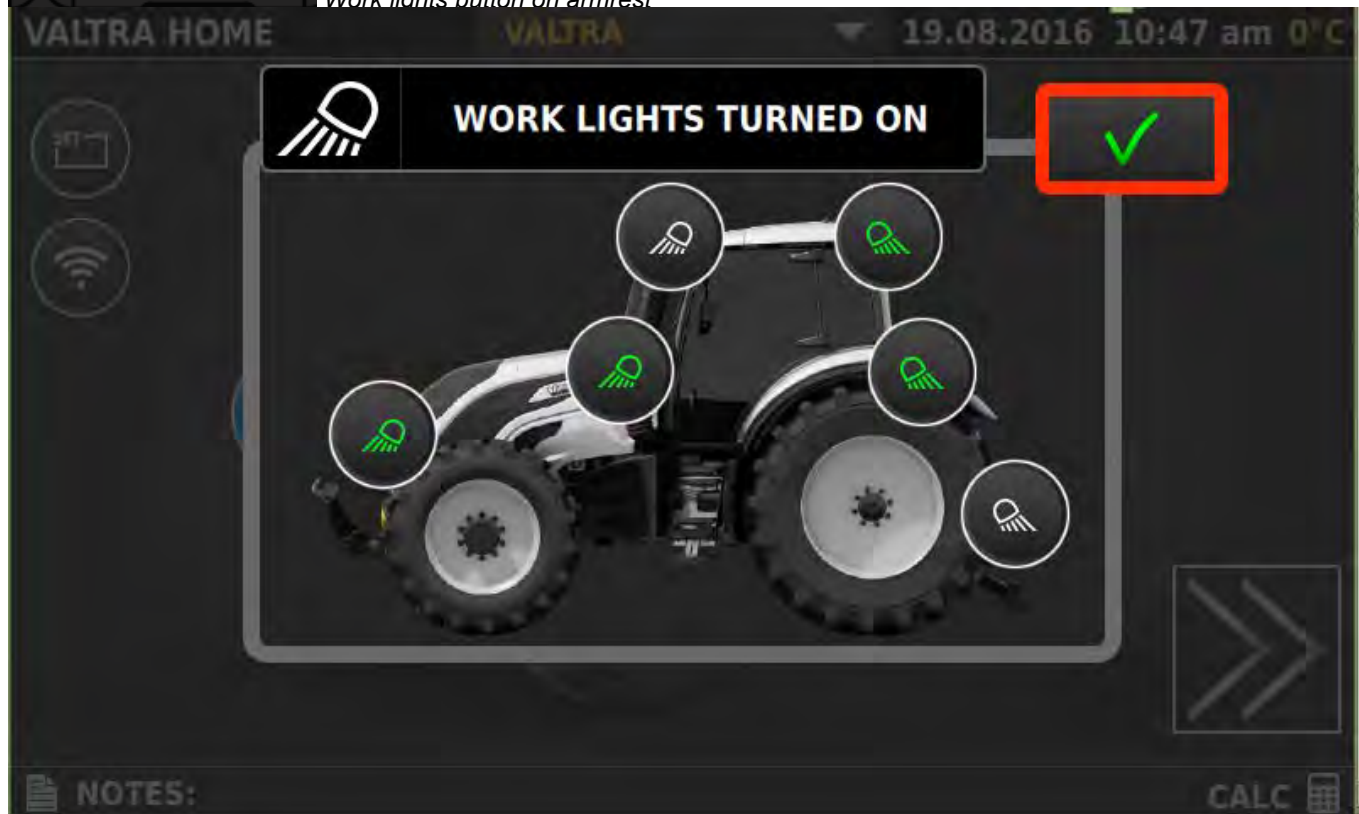
Work lights info popup is displayed when the corresponding physical button on armrest is pressed. It shows which lights were turned on and also gives the user possibility to change this configuration.

By default this info popup is visible for 5 seconds after the armrest button is pressed but the timer is stopped if the user changes the configuration.

This popup can not be hidden by the user.



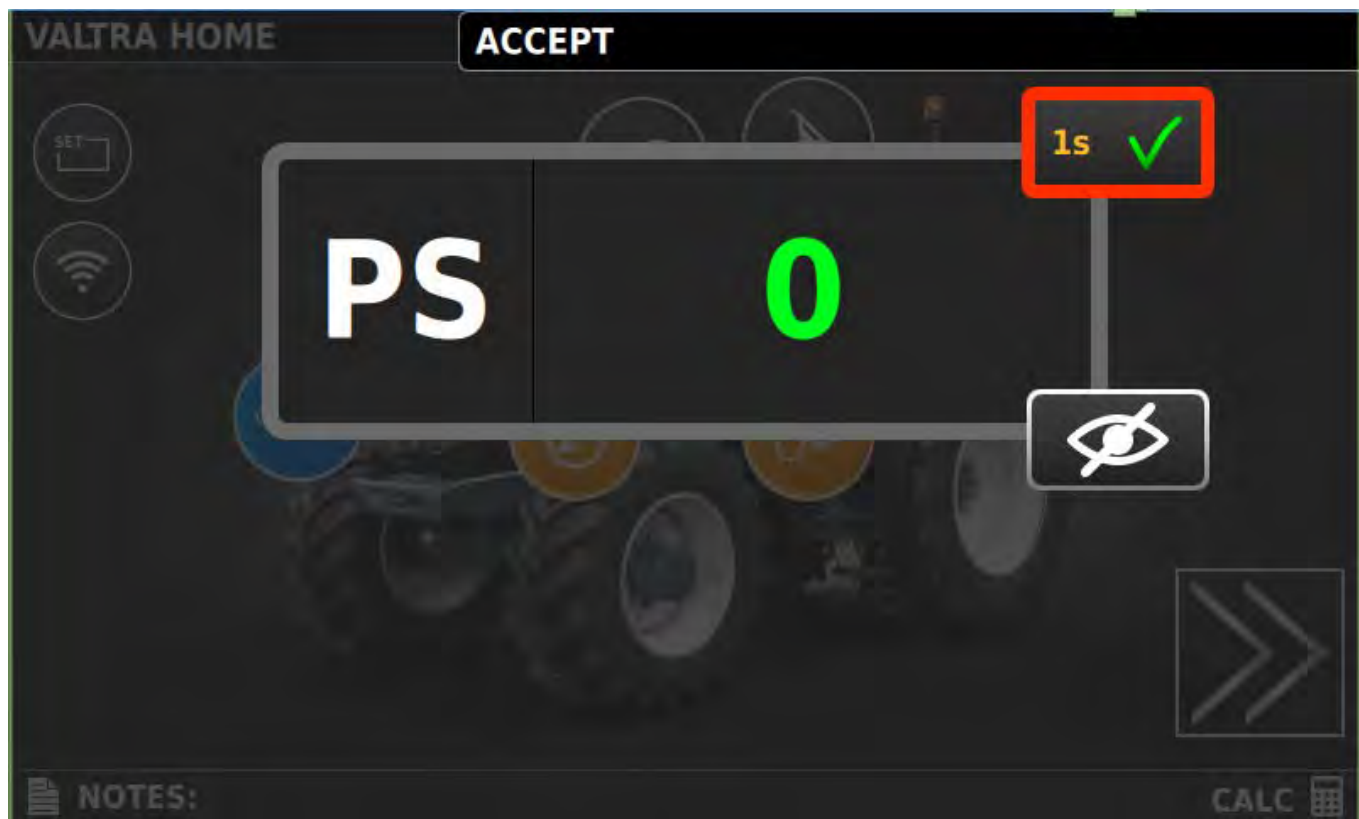
Work lights button on armrest



Reviewed]

6.5.3 PS gear info popup

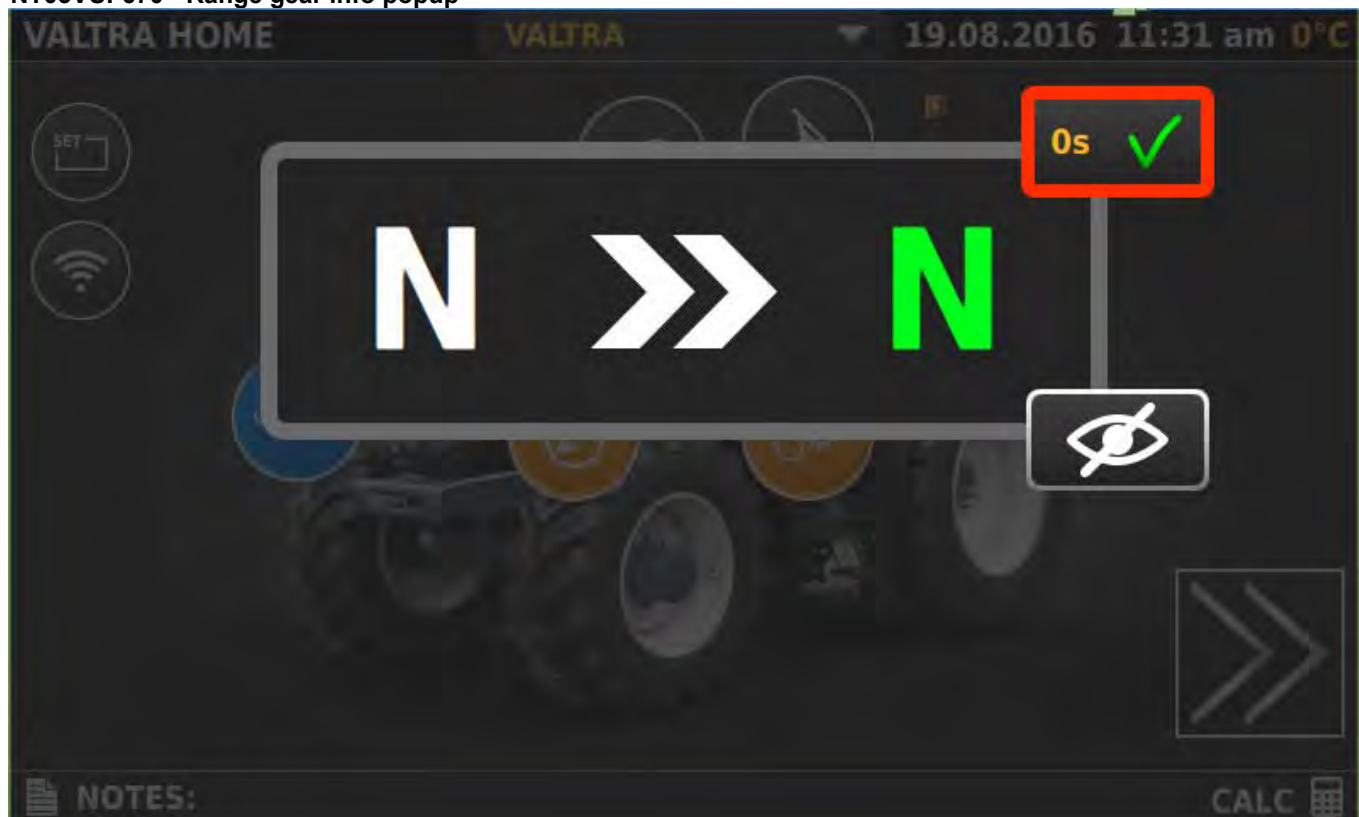
NT03VUI-751 - PS gear info popup



This info popup displays PS gear change. Hidden by default. Operator can enable this popup from terminal settings page. [🔍 Reviewed]

6.5.4 Range Gear info popup

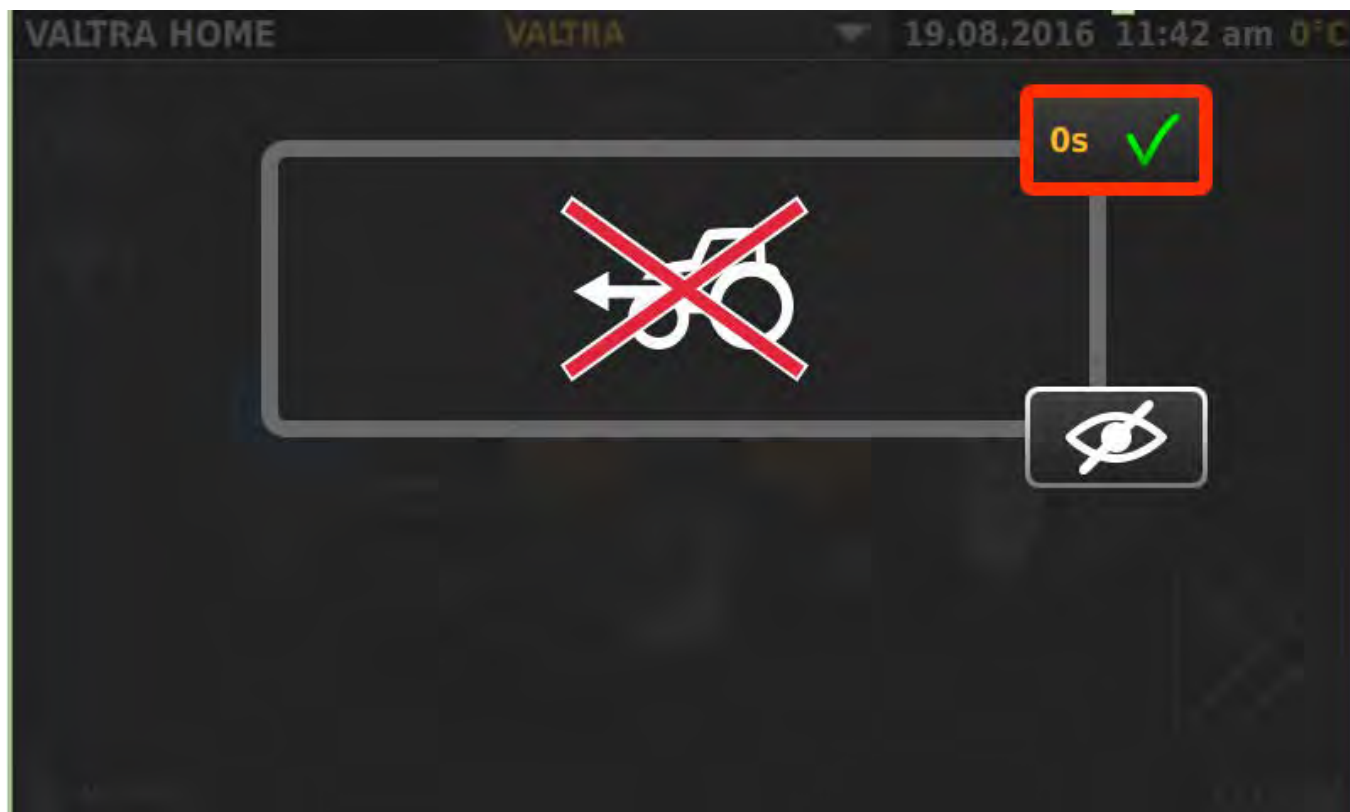
NT03VUI-670 - Range gear info popup



Displays range gear change. Popup is visible until the gear change is completed unless user hides it. Displays the current range gear and the requested range gear. Requested range gear is colored yellow and once the gear change is completed it turns green. [🔍 Reviewed]

6.5.5 FWD info popup

NT03VUI-671 - FWD info popup

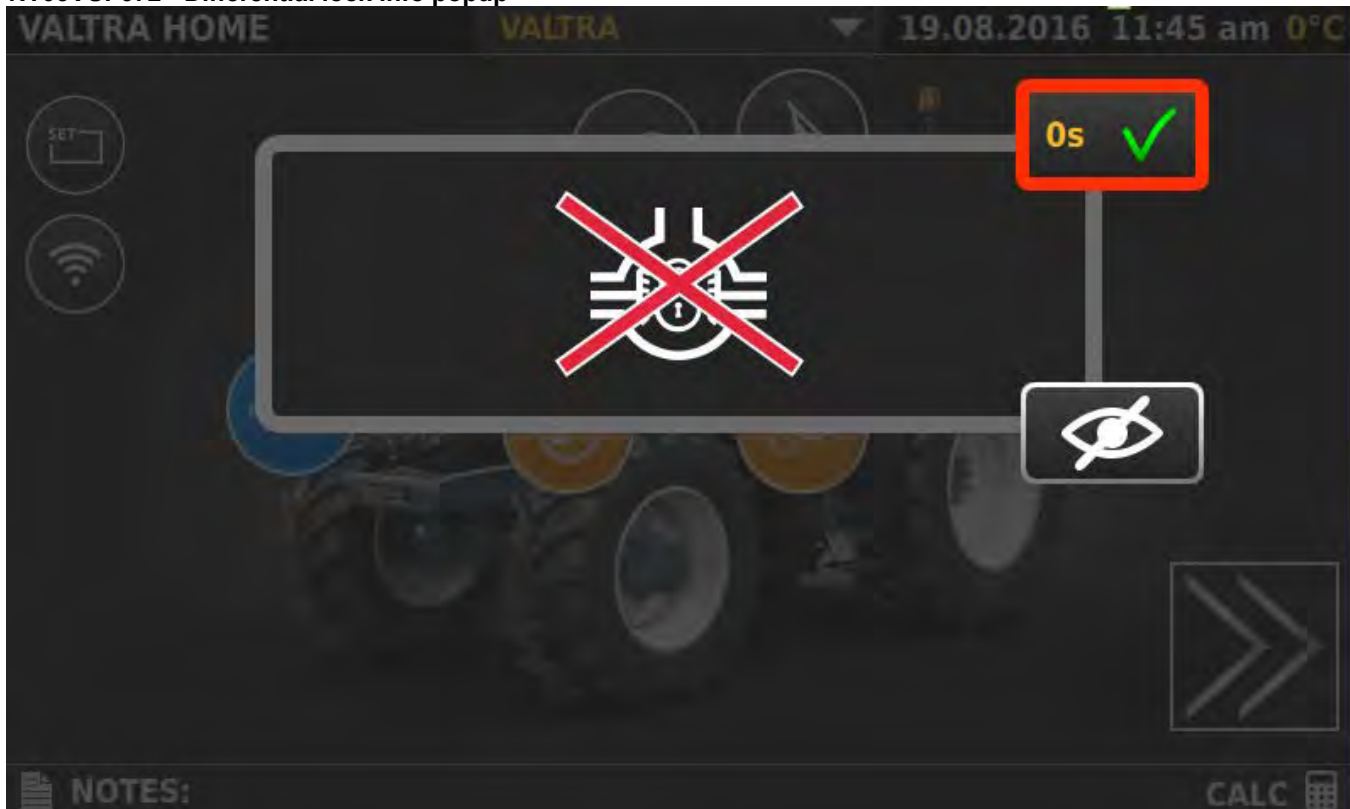


FWD (Four Wheel Drive) ON/OFF.

ON state without the red cross. [👤 Reviewed]

6.5.6 Differential lock info popup

NT03VUI-672 - Differential lock info popup

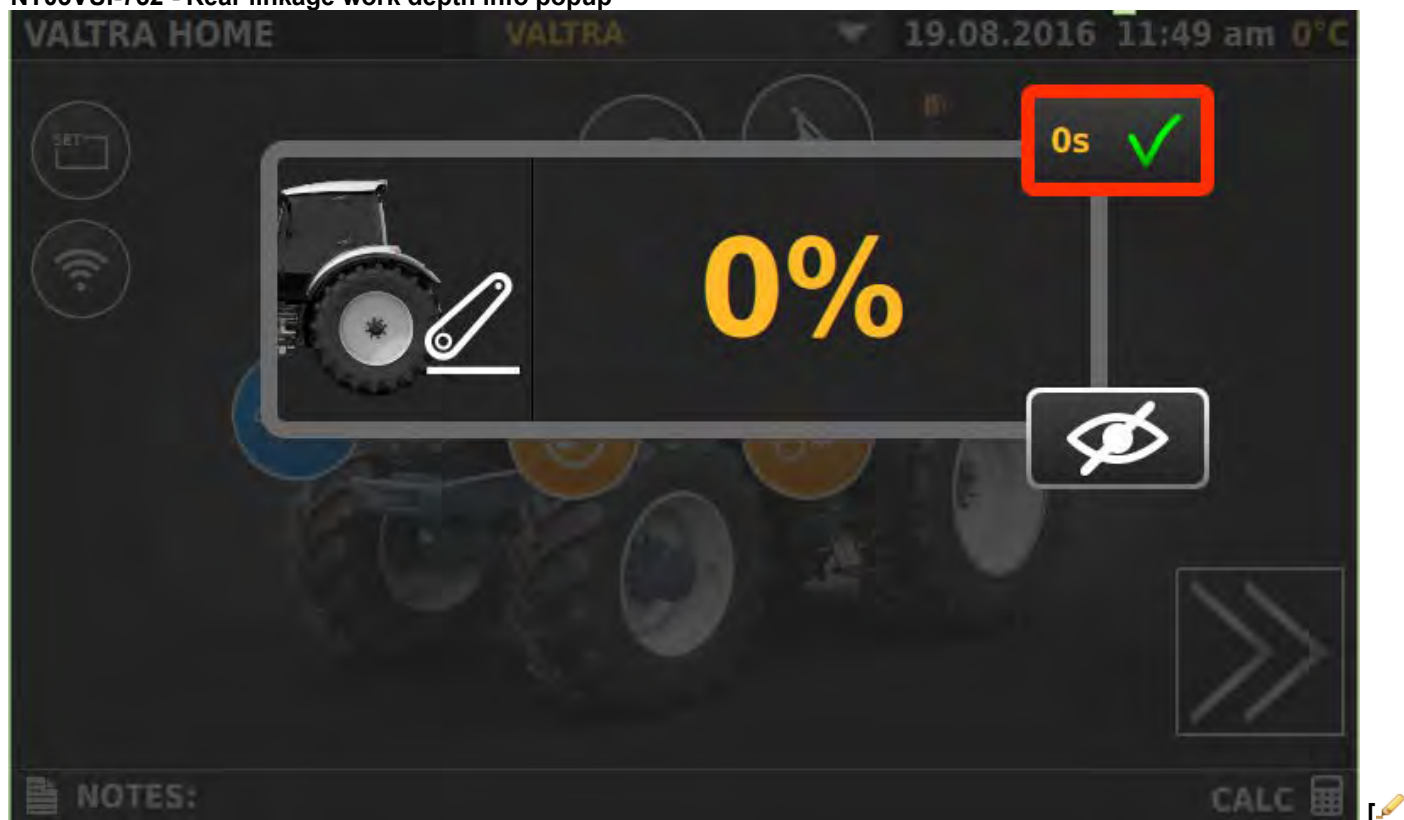


Diff lock ON/OFF.

ON state without the red cross. [👤 Reviewed]

6.5.7 Rear Linkage work depth info popup

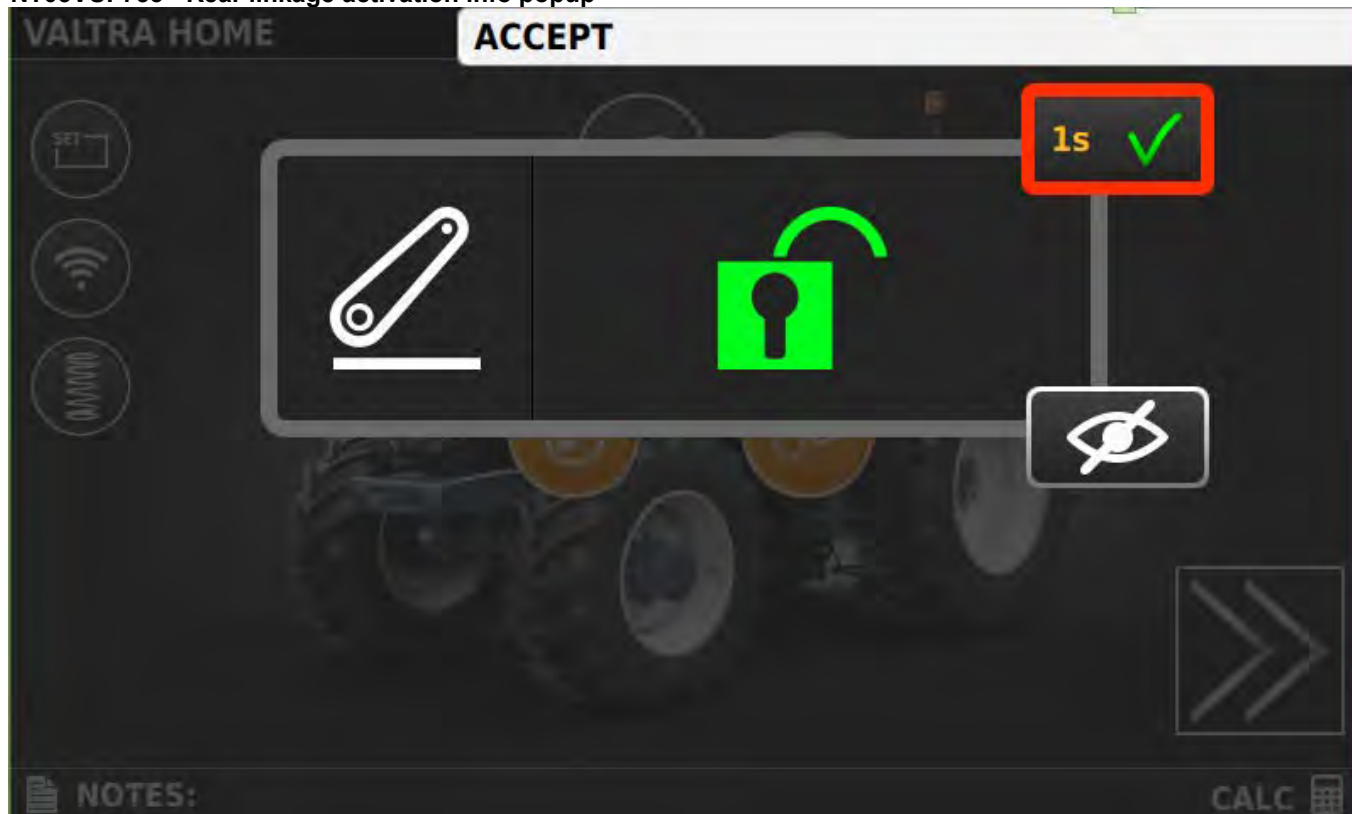
NT03VUI-752 - Rear linkage work depth info popup



Draft]

6.5.8 Rear linkage activation/locked info popup

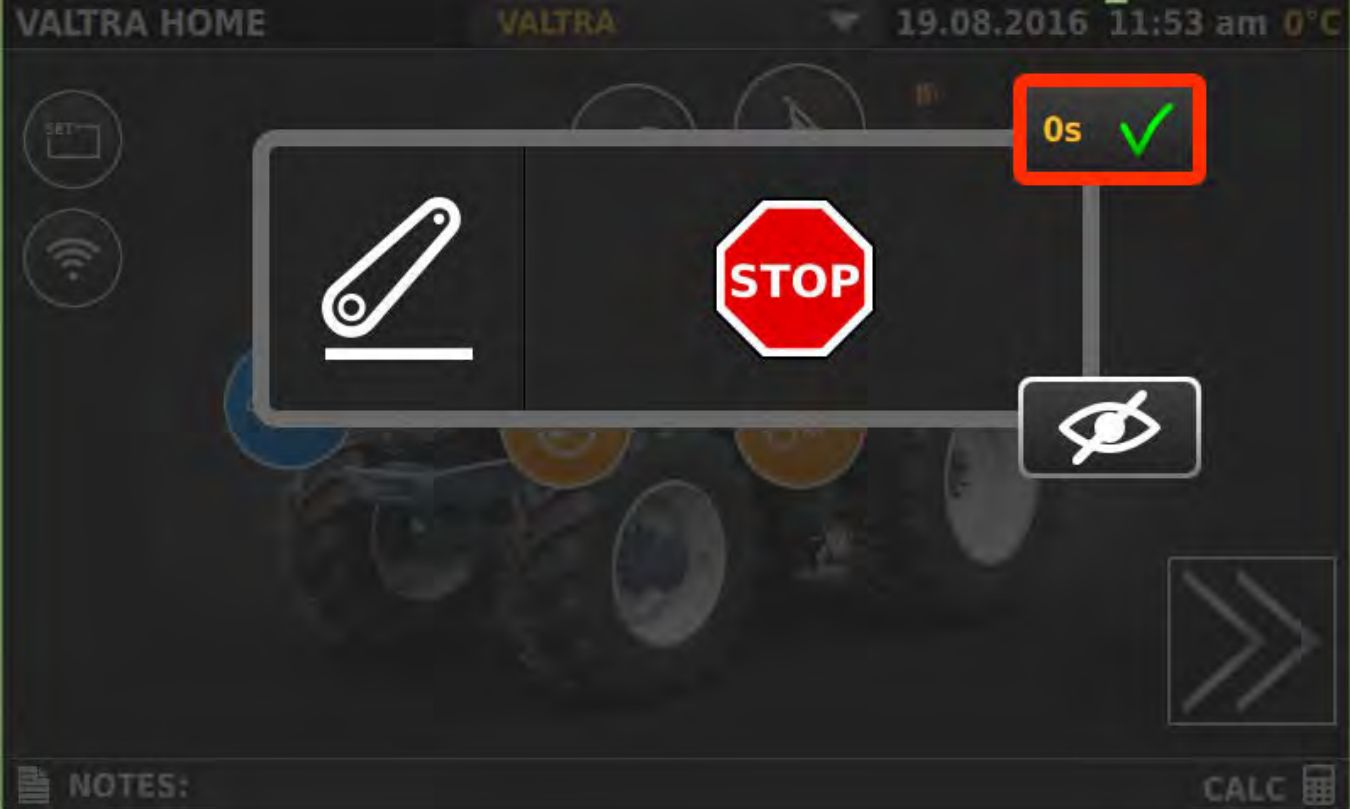
NT03VUI-753 - Rear linkage activation info popup



This info popup is displayed when rear linkage is activated or locked. [🔍 Reviewed]

6.5.9 Rear linkage state info popup

NT03VUI-754 - Rear linkage state info popup



Displayed when rear linkage state changes. States are listed in section Rear Linkage Info Screen.
Hidden by default. Operator can enable this popup from terminal settings page. [Draft]

6.5.10 Driving direction info popup

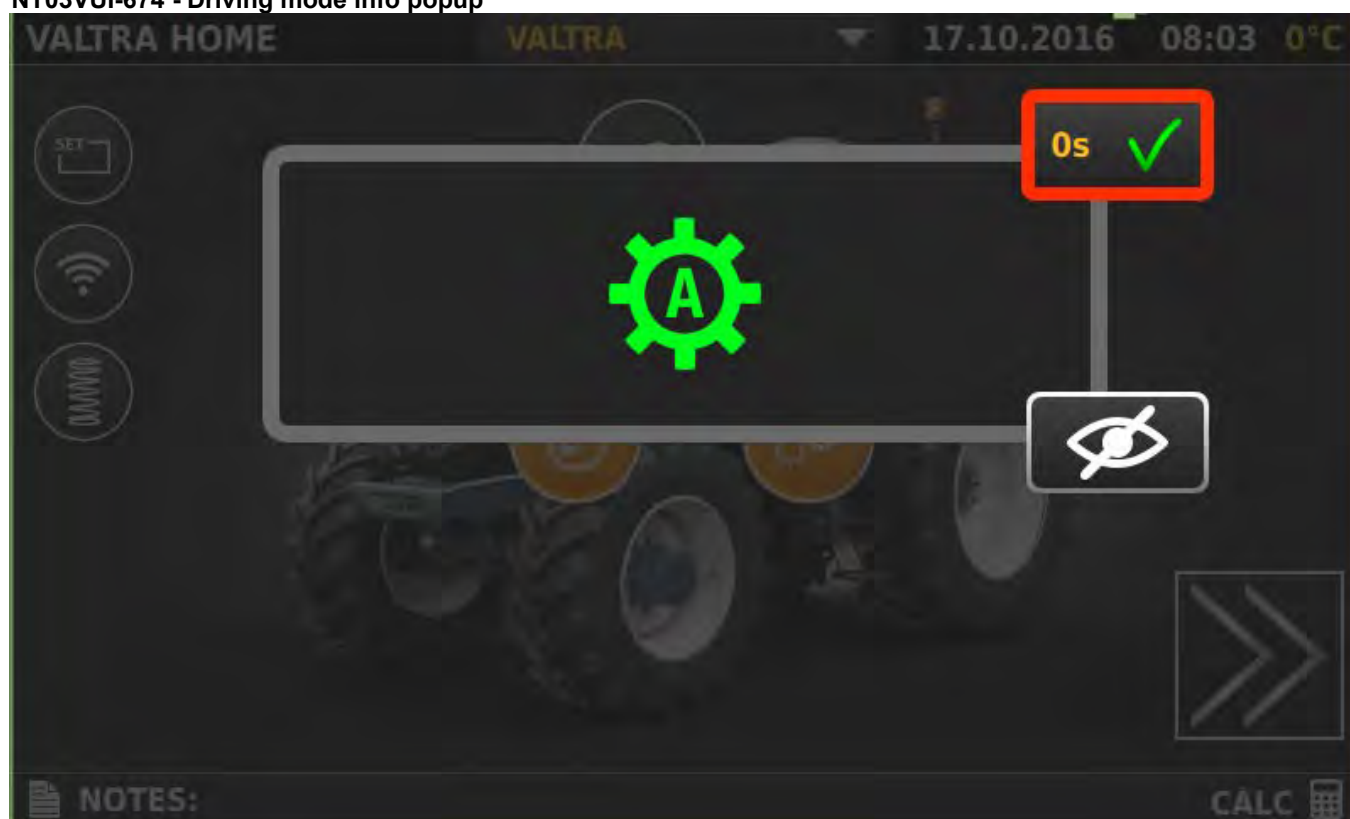
NT03VUI-673 - Shuttle lever status info popup



Displays shuttle lever status (N/P/Active standstill + direction arrows) [Draft]

6.5.11 Driving mode info popup

NT03VUI-674 - Driving mode info popup



Displays driving mode:

-  Auto (Pedal/Lever)
-  Manual

[ Reviewed]

6.5.12 PTO Rear running info popup

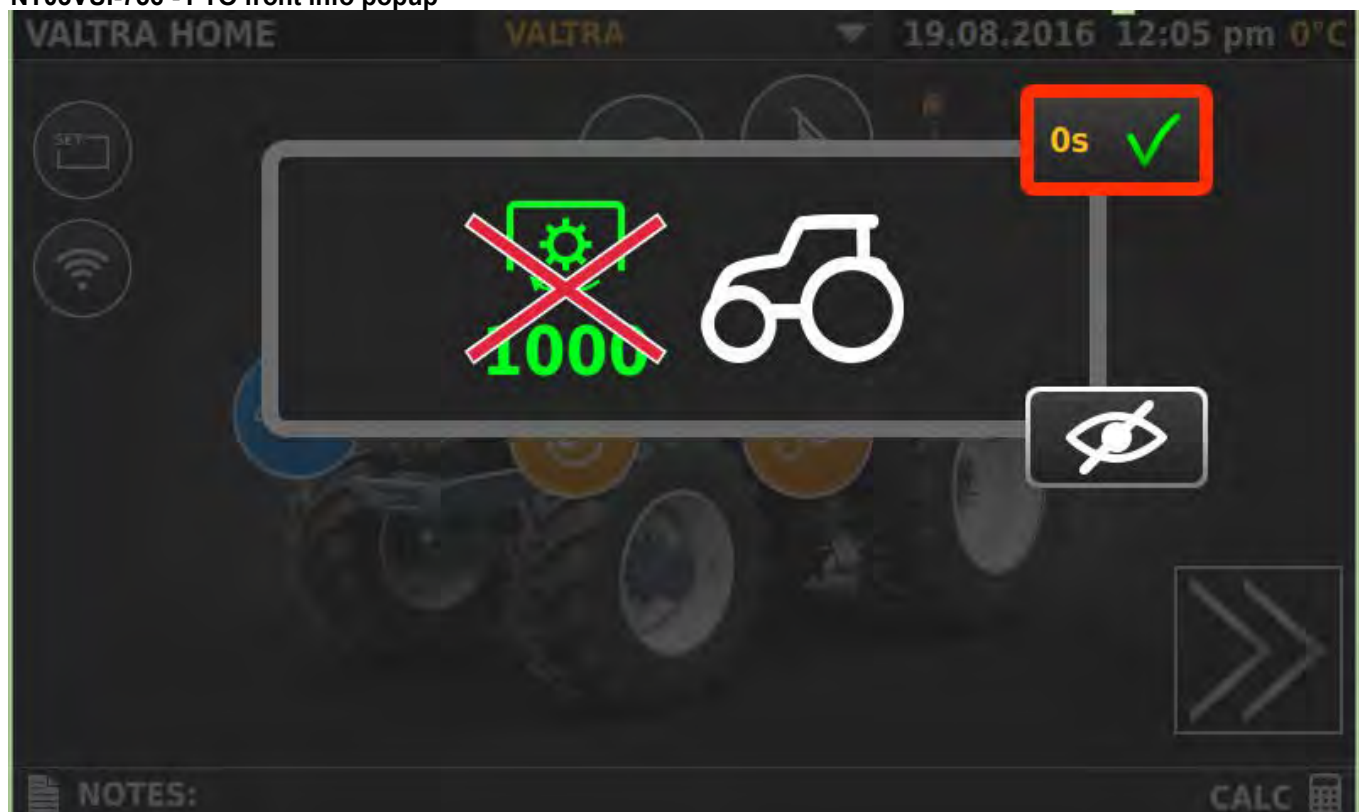
NT03VUI-755 - PTO rear info popup



Displays engage/disengage of rear PTO with selected gear. [Reviewed]

6.5.13 PTO Front running info popup

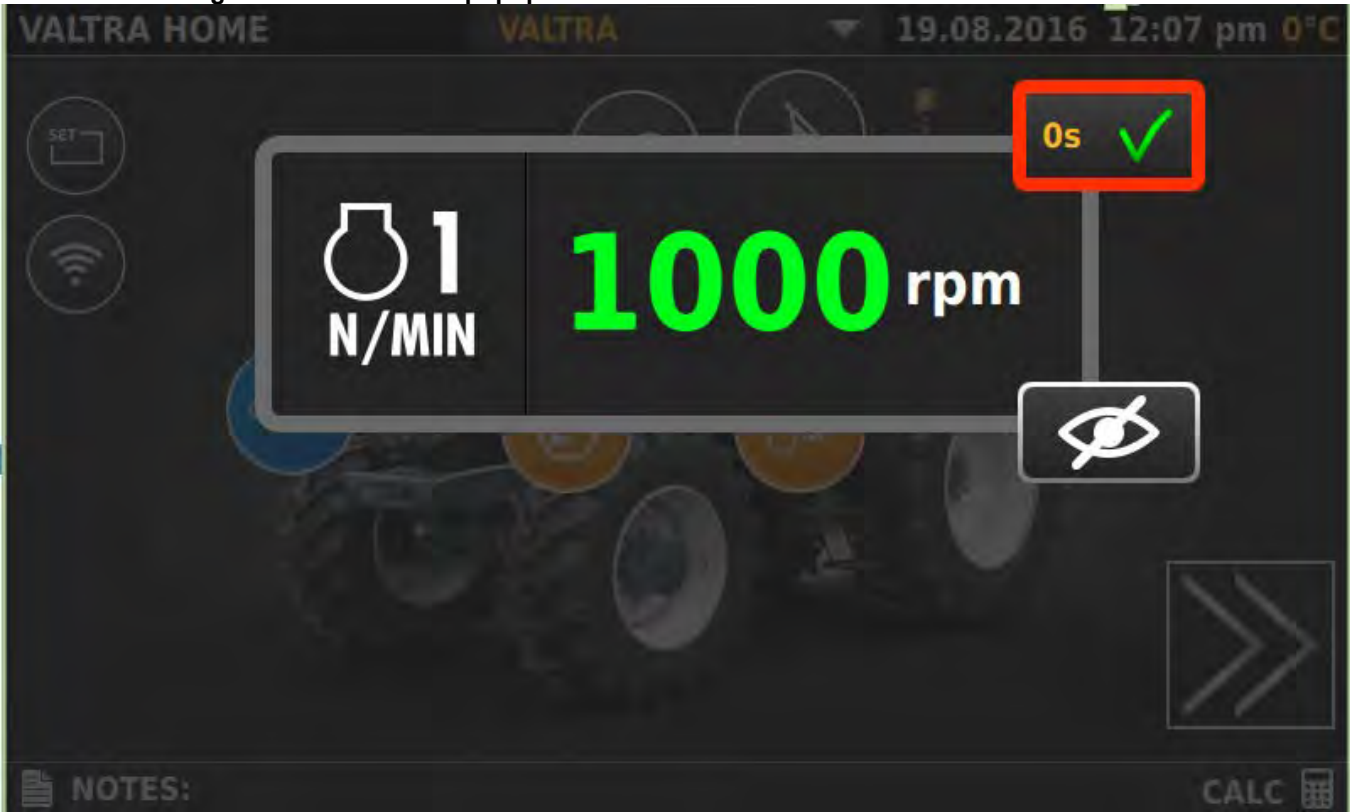
NT03VUI-756 - PTO front info popup



Displays engage/disengage of front PTO. [Reviewed]

6.5.14 Engine RPM Cruise info popup

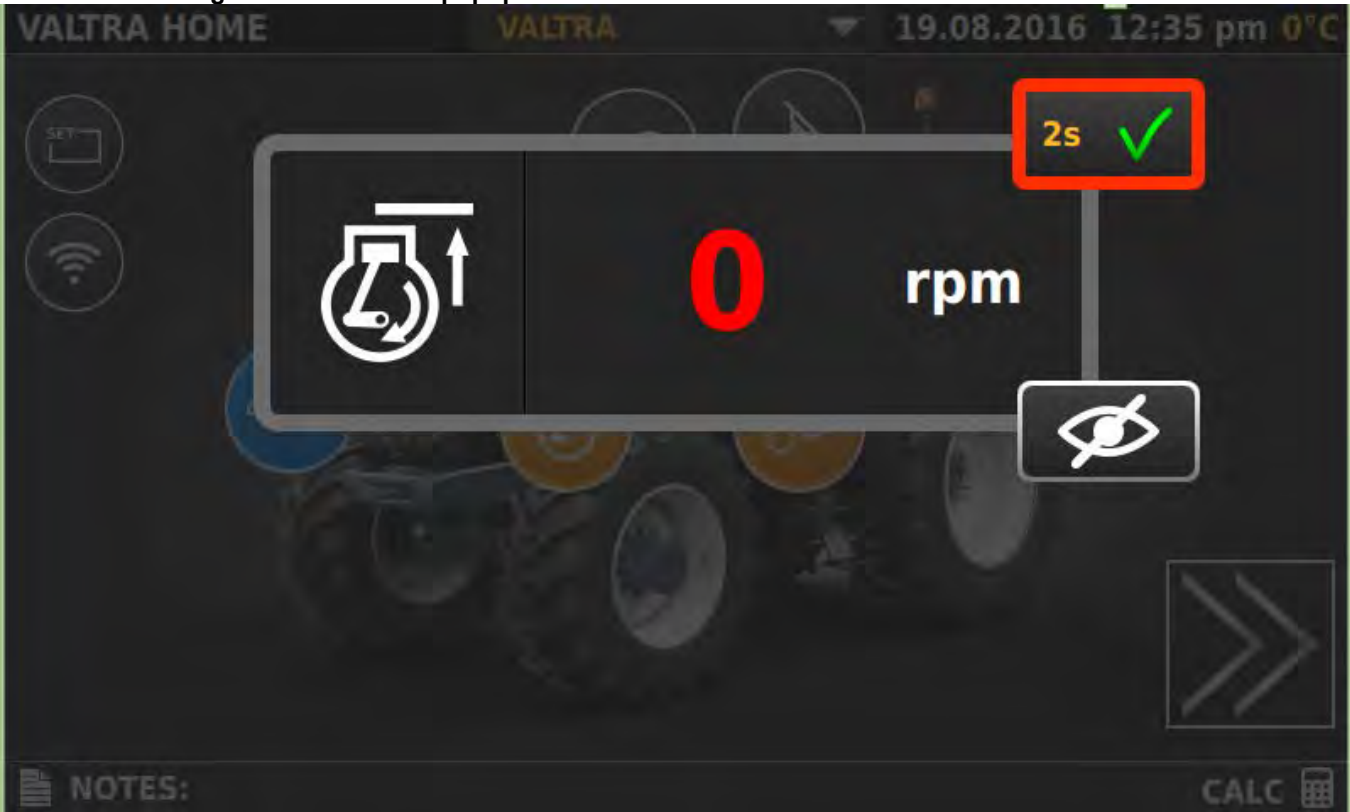
NT03VUI-757 - Engine RPM cruise info popup



Displays engine rpm cruise ON/OFF. Title icon displays which cruise slot was activated (1/2) and value shows the cruise value. [Reviewed]

6.5.15 Engine maximum RPM info popup

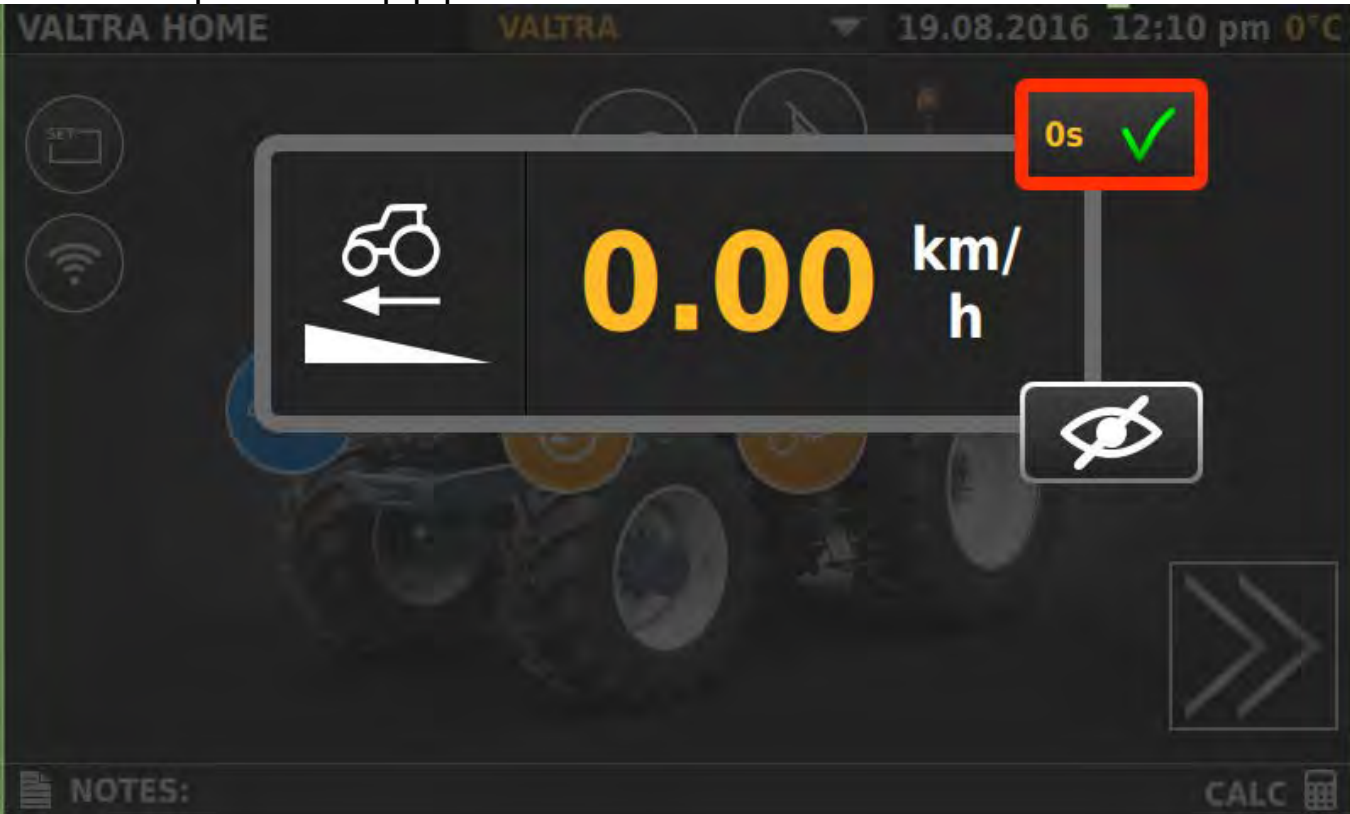
NT03VUI-758 - Engine max RPM info popup



Displayed when engine maximum rpm is limited. [Draft]

6.5.16 Speed scale info popup

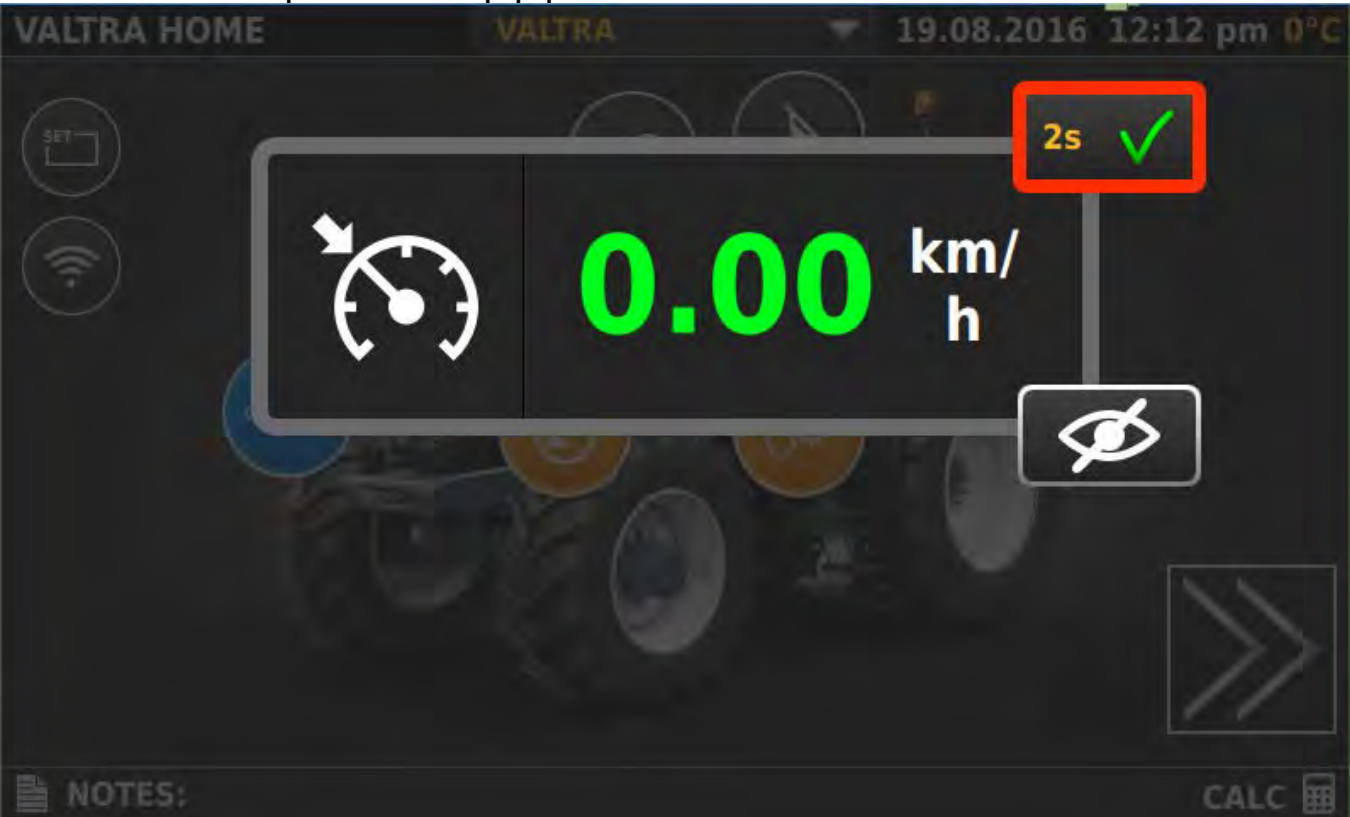
NT03VUI-759 - Speed scale info popup



Displays the speed scale value adjusted from armrest. [🔧 Draft]

6.5.17 Tractor speed cruise info popup

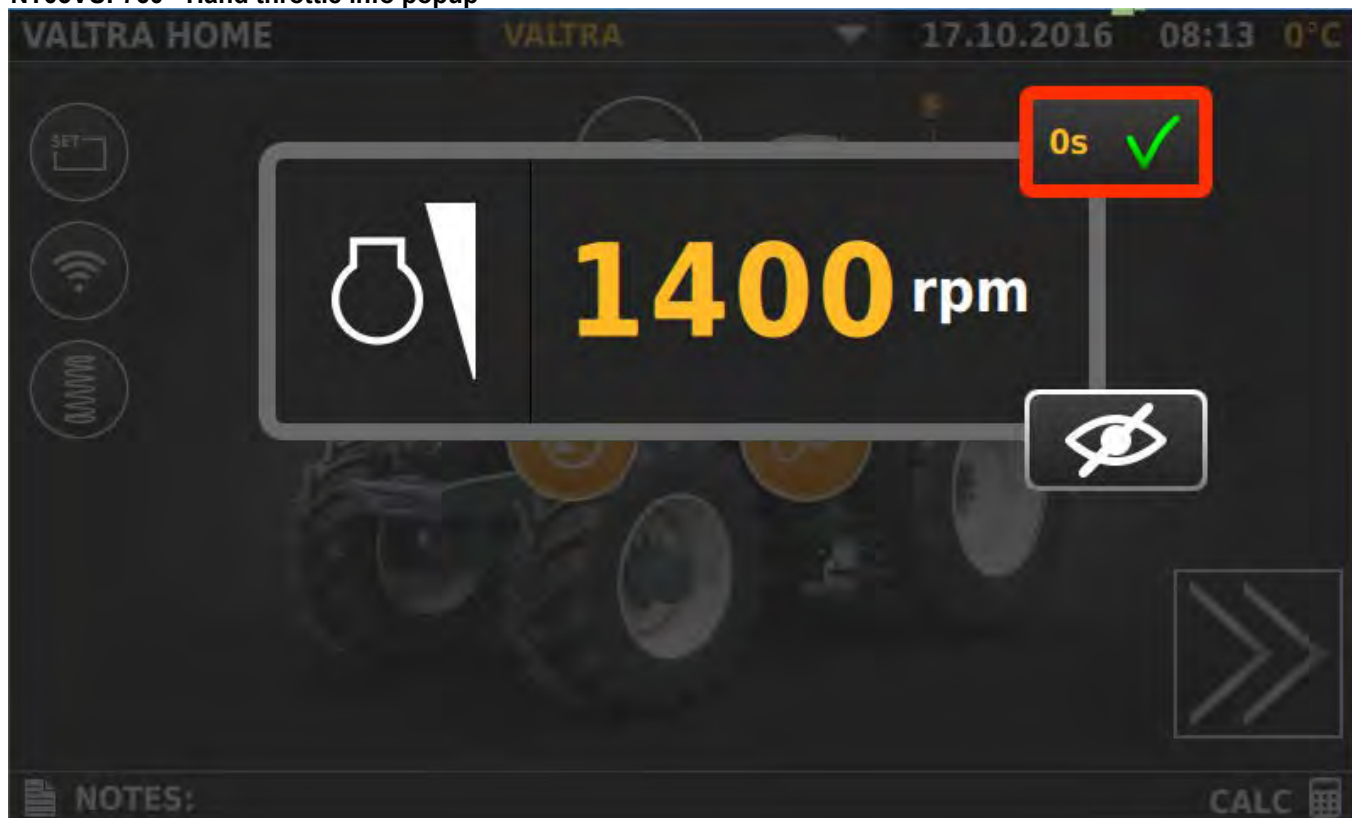
NT03VUI-675 - Tractor speed cruise info popup



Cruise ON with cruise value. [👍 Reviewed]

6.5.18 Hand throttle info popup

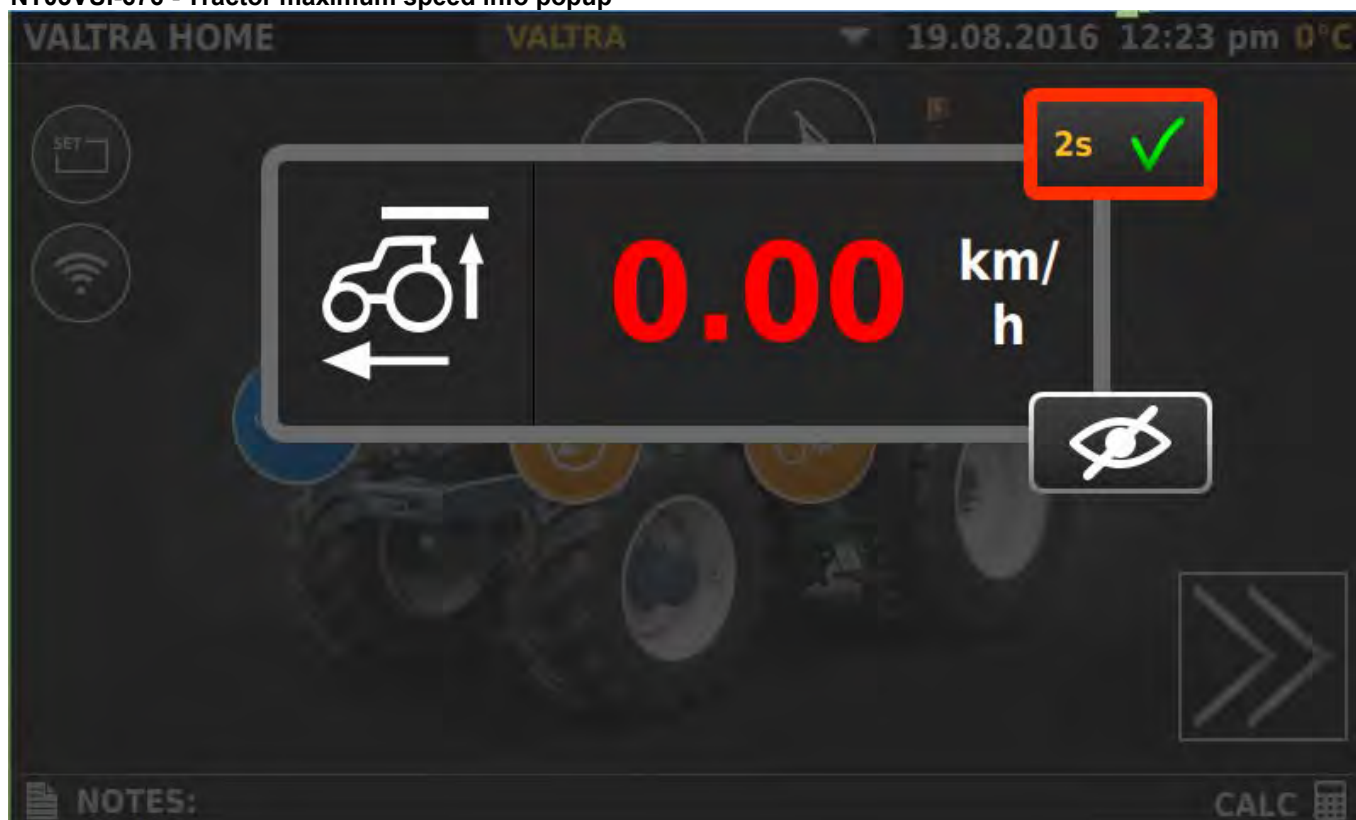
NT03VUI-760 - Hand throttle info popup



Displayed when hand throttle is used. Hidden by default. Operator can enable this info popup from terminal settings page. [✎ Draft]

6.5.19 Tractor maximum speed info popup

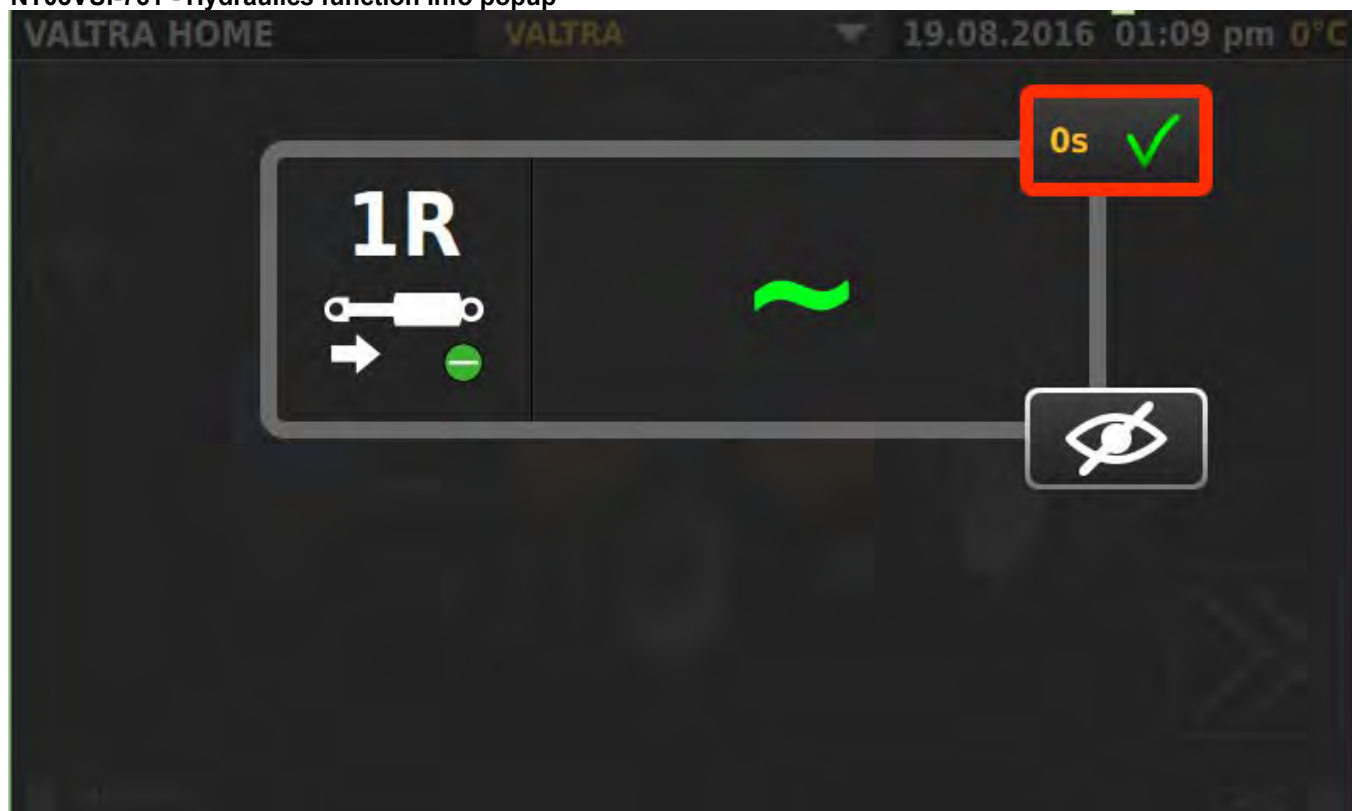
NT03VUI-676 - Tractor maximum speed info popup



Displayed when tractor maximum speed is limited. [✎ Draft]

6.5.20 Hydraulics function info popup

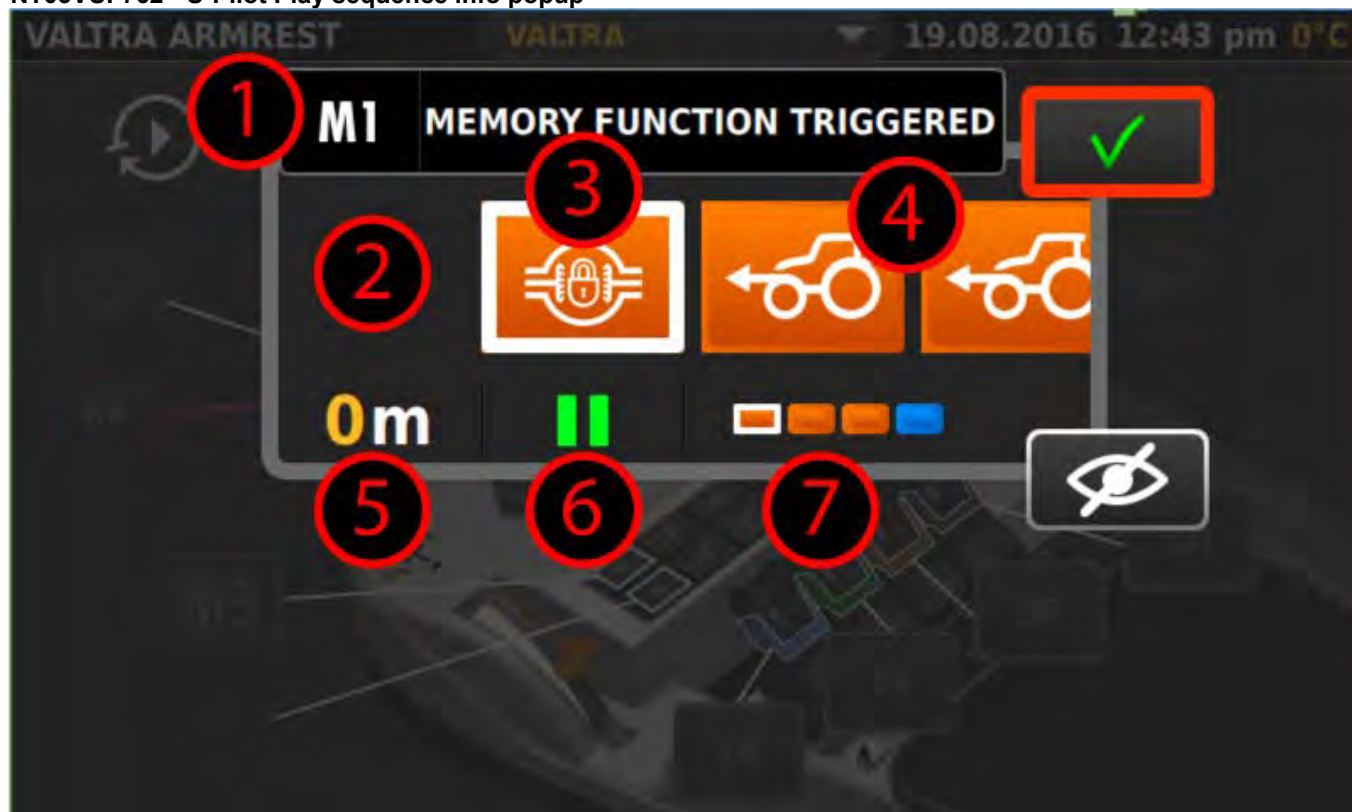
NT03VUI-761 - Hydraulics function info popup



Displayed when hydraulics function is triggered. Valve, port and the triggered function is displayed. [👤 Reviewed]

6.5.21 U-Pilot Play Sequence Info Popup

NT03VUI-762 - U-Pilot Play sequence info popup



When U-Pilot Sequence is playing its status is displayed in an information popup.

1. Active sequence
2. Previous action
3. Next action to be played

4. Next actions (max 2)
5. Time/Distance to the start of next action
6. Current state (playing/paused)
7. Overview of the sequence (max 7 actions displayed at a time)

When the sequence is paused this popup will slide away from the view. In this case the state of the sequence can be checked from the U-Pilot info screen.

User can hide each memory function info popup individually. For example pressing hide button for M1 U-Pilot info popup would not hide U-Pilot info popups for M2 and M3 memory slots. [✓ Approved]

6.5.22 Reversible fan Info Popup

NT03VUI-1257 - Reversible fan info popup coolant temp



When coolant temperature function was triggered. [✓ Approved]

NT03VUI-1258 - Reversible fan info popup timer



When timer function was triggered [✓ Approved]

6.5.23 Auto-Guide engagement failed Info Popup

NT03VUI-1735 - Auto-Guide engagement failed Info Popup

If Auto-Guide engagement fails, a popup with a failure reason is displayed.

[✎ Draft]

NT03VUI-1732 - Not enough satellites Info Popup



Draft]

NT03VUI-1733 - Driving speed not enough Info popup



[Draft]

6.5.24 Auto-Guide engaged Info Popup

NT03VUI-1737 - Auto-Guide engaged Info Popup

Auto-Guide engaged Info Popup is displayed when guidance is activated.



1. Type of wayline.
2. Name of wayline.
3. Wayline number.
4. Path-to-path distance.

[ Draft]

7 Profile management

NT03VUI-763 - Terminal profile management

In NT03 all settings are stored in profiles. Every setting made is automatically saved to active profile excluding terminal settings. The user could e.g. create different profiles for different work tasks and then adjust profile settings to be optimal for each task. Another use case would be personal profiles for different persons operating the tractor. The user can specify the best way to use profiles or ignore profiles and only use the default one.

If NT03 is shut down and then restarted, the previous session is recovered with the same profile. Application will start either from the settings home or from the info home, depending on which side the user was when NT03 was shut down. Top bar always displays the active profile and profile management popup can be accessed from there. [ Draft]

7.1 Default profile

NT03VUI-764 - Terminal default profile



There is always at least one profile in the profile management popup. This profile is the default profile and initially it contains factory settings. If the user customizes these settings, they are stored in this profile the same way they would be stored in any other profile. Default profile works as any other profile with a couple of exceptions.

- Default profile's name cannot be changed
- It is always the topmost profile in the profiles list. Others are sorted alphabetically.
- It cannot be deleted. But it can be reset to factory settings.
- Changing active profile from default profile will reset default profile settings to factory settings. This way the user can be sure that the default profile always contains factory settings when it is not the active profile.

[ Draft]

7.2 User-created profiles

NT03VUI-765 - Terminal custom profiles



New profiles can be created with the “+” –button. New profile is then added to list of profiles and named “NEW PROFILE” + increasing number. After activating the new profile its name can be changed. Number of profiles is not restricted. [✎ Draft]

8 Tractor functions

8.1 Terminal settings

NT03VUI-771 - Terminal settings page

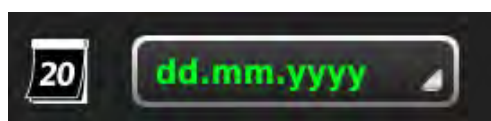


1. Set date format
2. Open popup to set date

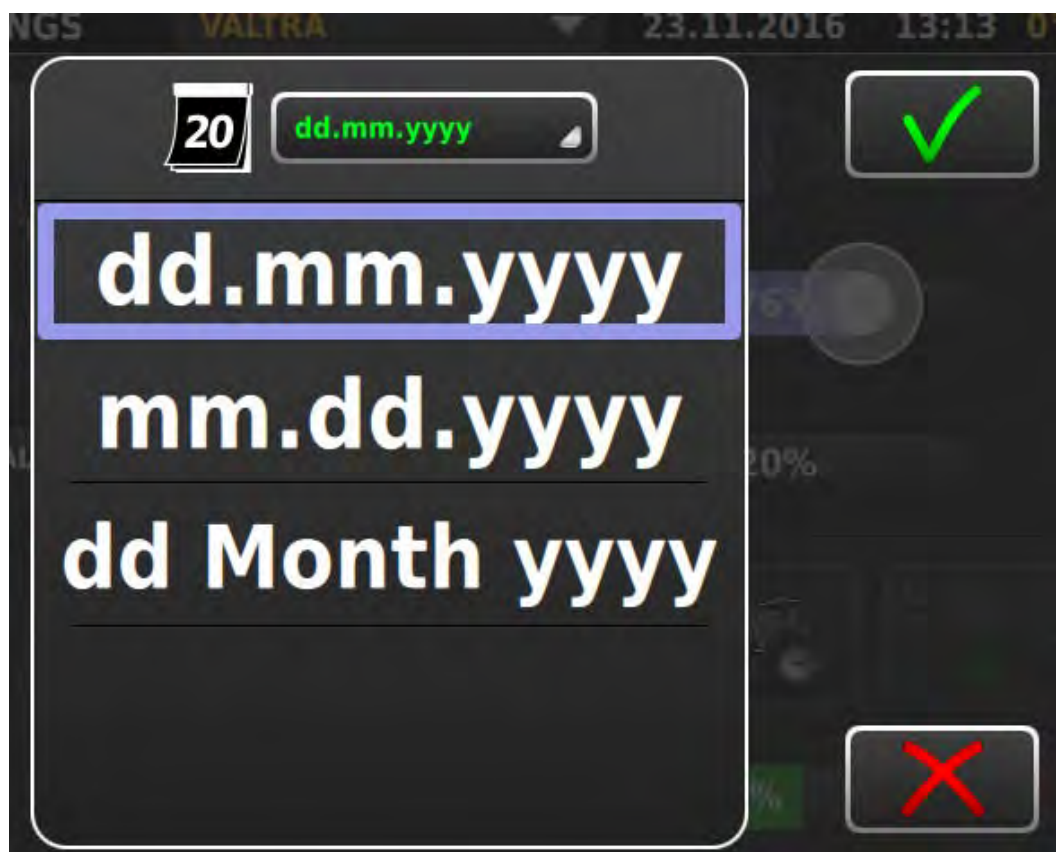
3. Set time format
4. Open popup to set time
5. Set decimal marker
6. Change all units according to selection metric/imperial/us or select spanner to configure units manually
7. Set display's brightness. Brightness is tied to mechanical cabin light setting switch but balance can be adjusted with this slider. (S-series adjust all cabin lights)
8. Set terminal's speaker and buzzer volumes
9. Configure information popups
10. Change tractor color
11. Browse terminal software features
12. Select language
13. terminal memory usage (database)

[ Draft]

NT03VUI-791 - Date format setting

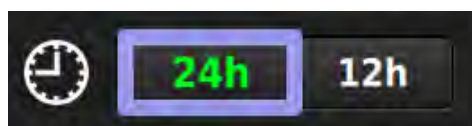


Open component to set date format.



[ Draft]

NT03VUI-792 - Time format setting

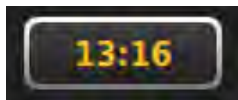


Set time format

[ Draft]

8.1.1 Time popup

NT03VUI-793 - Time setting



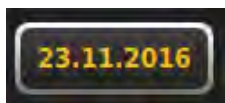
Open a popup to set time.



 Draft]

8.1.2 Date popup

NT03VUI-794 - Date setting



Open a popup to set the date.



Draft]

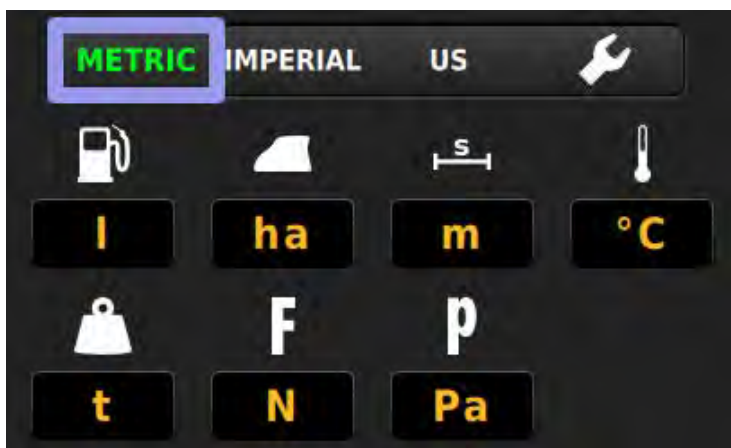
NT03VUI-795 - Decimal marker setting



Set the decimal marker. Example text shown after the switch.

[Draft]

NT03VUI-796 - Unit settings



Change all units according to selection metric/imperial/us or select spanner to configure units manually.



Manual editing of units individually.

[ Draft]

NT03VUI-797 - Volume unit setting



Open component to set volume unit.



Choose litres, UKGal or USGal.

[ Draft]

NT03VUI-798 - Area unit setting



Open component to set area unit.



Choose hectares or acres. [ Draft]

NT03VUI-799 - Distance unit setting



Open component to set distance unit.



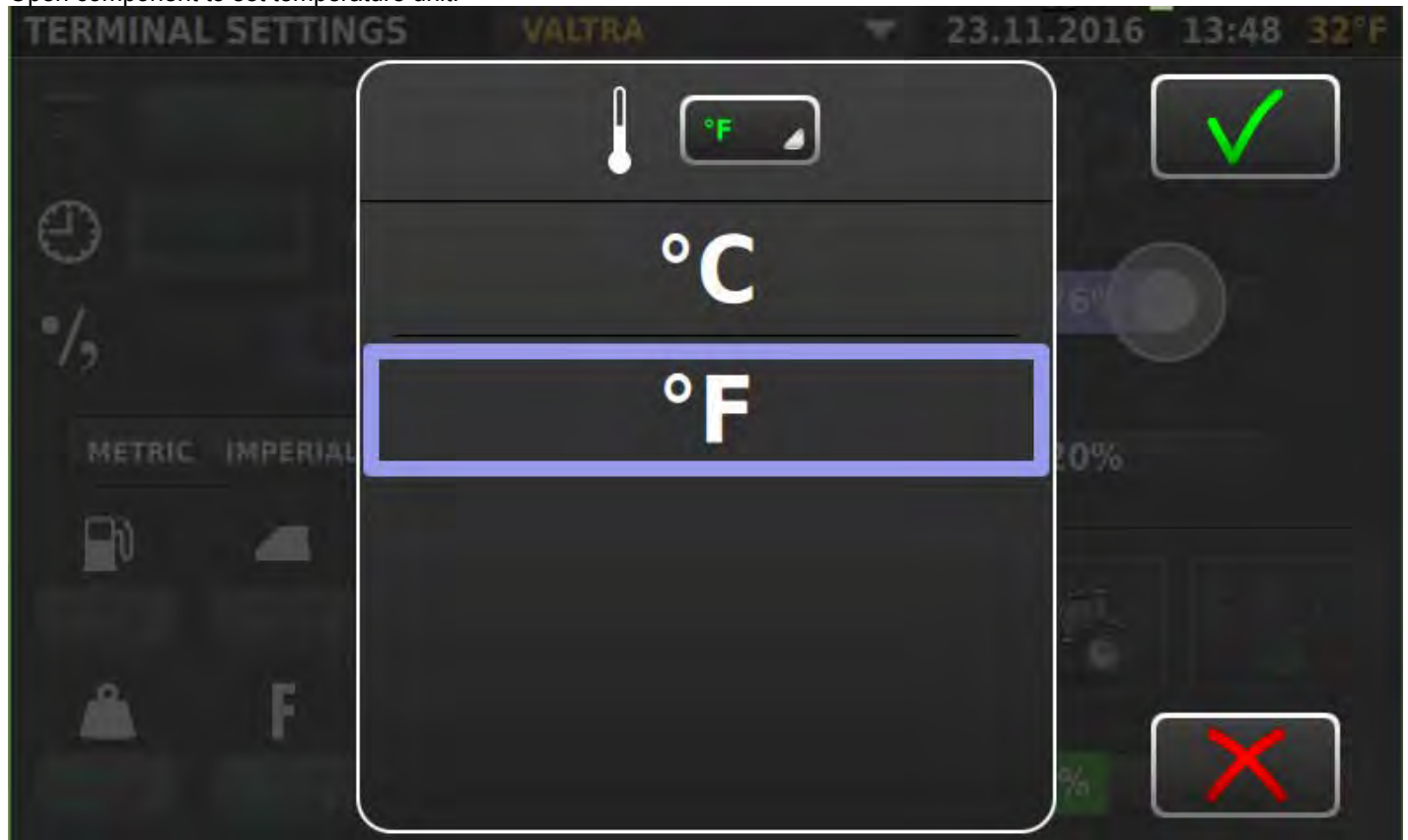
Choose meters or feet.

[ Draft]

NT03VUI-800 - Temperature unit setting



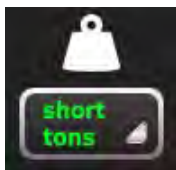
Open component to set temperature unit.



Choose Celsius or Fahrenheit.

[ Draft]

NT03VUI-801 - Mass unit setting



Open component to set mass unit.



Choose tonnes, long tons or short tons.

[ Draft]

NT03VUI-802 - Force unit setting



Open component to set force unit.



Choose Newtons or pound-force.

[✎ Draft]

NT03VUI-803 - Pressure unit setting



Open component to set pressure unit.



Choose Pascals or Pounds per Square Inch.

[✎ Draft]

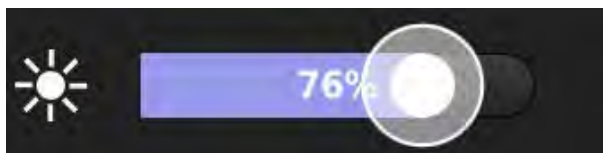
NT03VUI-804 - Auto theme change setting



Enable/disable automatic theme change. If enabled theme is automatically changed to day mode when it is bright and night mode when it is dark. Light sensor is on the top right corner of the terminals front side.

This function not exist anymore [✎ Draft]

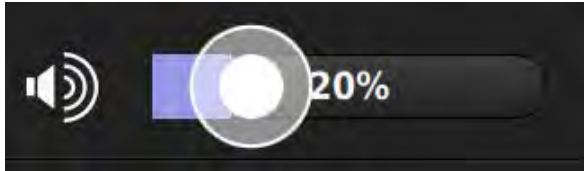
NT03VUI-805 - Display brightness setting



Set display's brightness. Brightness is tied to mechanical cabin light setting switch but balance can be adjusted with this slider.

[✎ Draft]

NT03VUI-806 - Volume setting



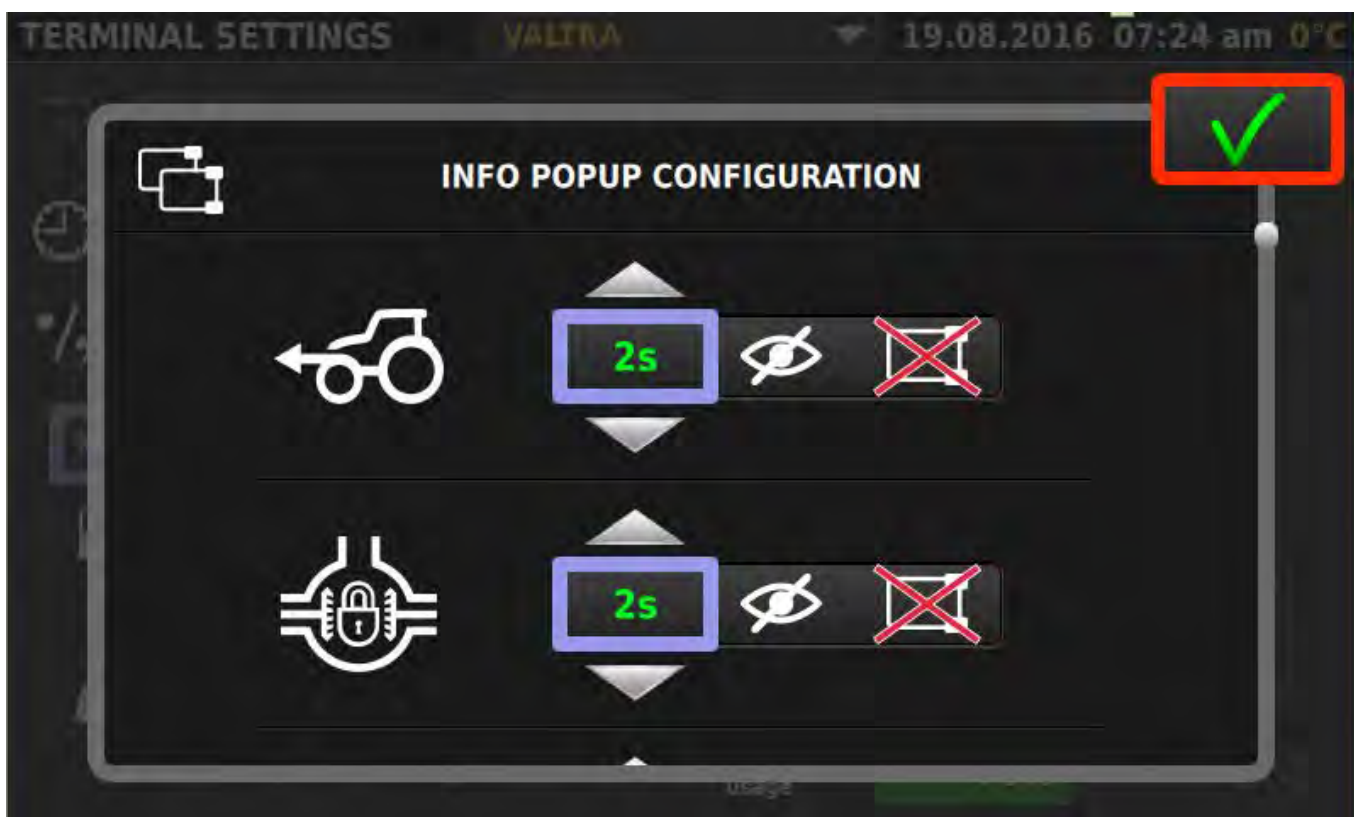
Set terminal's speaker and buzzer volumes. [✎ Draft]

8.1.3 Info popup configuration popup

NT03VUI-766 - Info popup visibility configuration



Info popup visibility configuration can be opened by pressing this button.



All configurable info popups are listed on this popup. Each Info popup can be configured here by either setting their time of visibility, hiding them for a session, or disabling them completely. Hiding popups for a session means, that they will be visible after next reboot. Info popups can also be hidden for a session straight from the Info Popups hide button, so from here it is possible to re-enable those popups by setting their visibility time to at least 1 second. Visibility time can be a value between 1-10 seconds. By default following info popups are disabled and need to be enabled manually if wanted:

- Rear linkage state
- PS gear
- Hand throttle

[✎ Draft]

8.1.4 Change tractor color popup

NT03VUI-767 - Terminal tractor color setting



Tractor color setting popup can be opened by pressing this button.



All tractor images and home animations will use the set color. [✎ Draft]

8.1.5 Available features popup

NT03VUI-807 - Available features popup

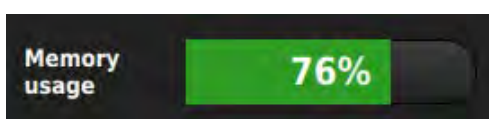


Available features popup can be opened by pressing this button on terminal settings page.



Available features popup lists feature packages that the customer can buy. List shows both unlocked features and locked features. [🖋️ Draft]

NT03VUI-808 - Memory usage info



Terminal's current memory usage can be seen from this component on the terminal settings page.

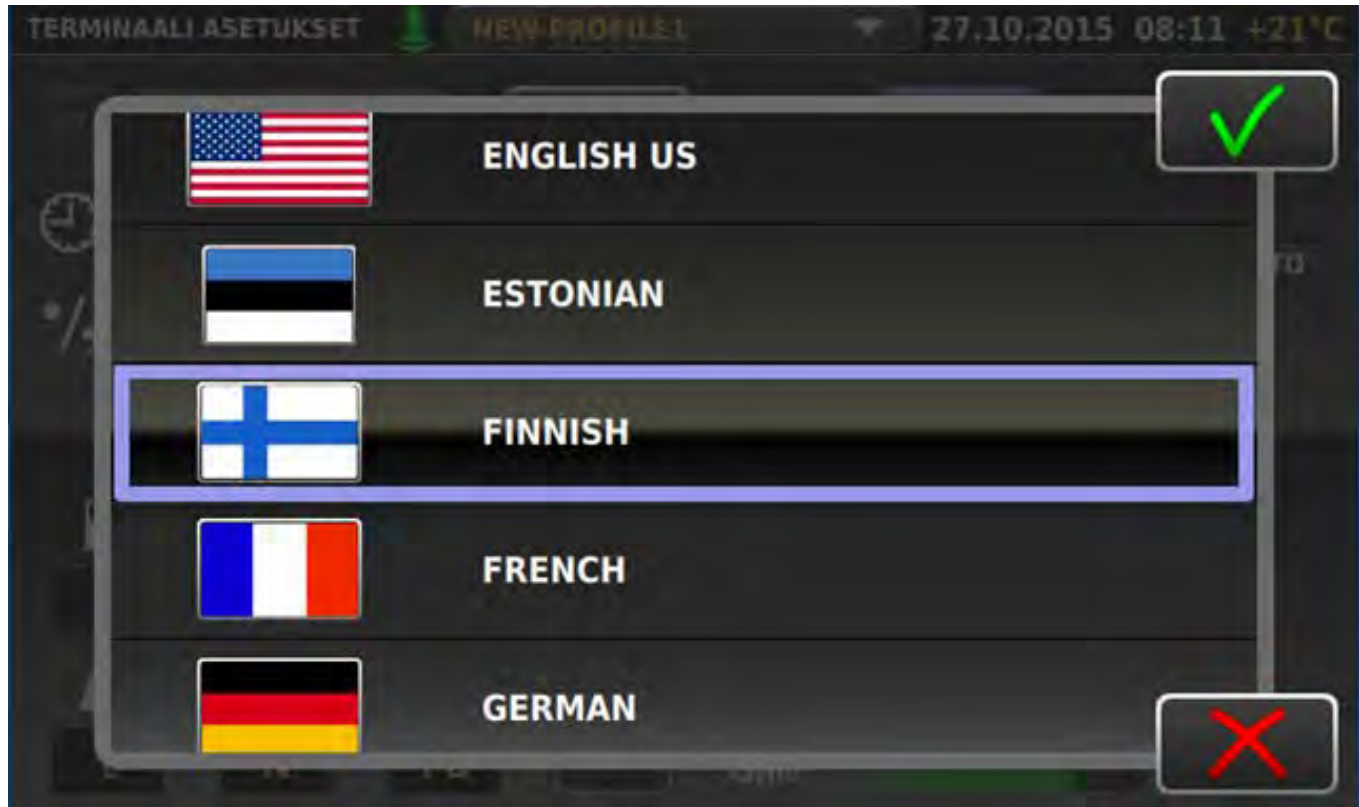
[🖋️ Draft]

8.1.6 Language popup

NT03VUI-809 - Language setting



Language change popup can be opened by pressing this button on the terminal settings page.



Terminal's language can be changed from this popup.

Supported languages:

1. English UK
2. English US
3. German
4. French
5. Dutch
6. Italia
7. Spanish
8. Portuguese
9. Danish
10. Swedish
11. Norwegian
12. Finnish
13. Greek
14. Romanian
15. Russian
16. Slovenian
17. Latvian
18. Estonian
19. Lithuanian
20. Croatian
21. Serbian
22. Bulgarian
23. Turkish

24. Hungarian
25. Czech
26. Polish
27. Chinese
28. Ukrainian
29. Slovakian
30. Japanese
31. Arabic

[ Draft]

8.2 Implement settings

NT03VUI-768 - Implement settings page

Implement settings page can be accessed from the Home page.

Rear settings from rear side:



Front settings from front side:



In case the attached implement is an ISOBUS implement, implement settings values are only displayable information. ISOBUS implement itself sends the values to the terminal. In this case the number scroller components are basic displays without any user interaction. [ Draft]

8.2.1 Implement settings without Auto-Guide

NT03VUI-769 - Implement settings page - Basic (without Auto-Guide)

If the tractor does NOT have AutoGuide, implement settings page only has a setting for implement width. Implement width is needed by counters e.g. to calculate worked area correctly.

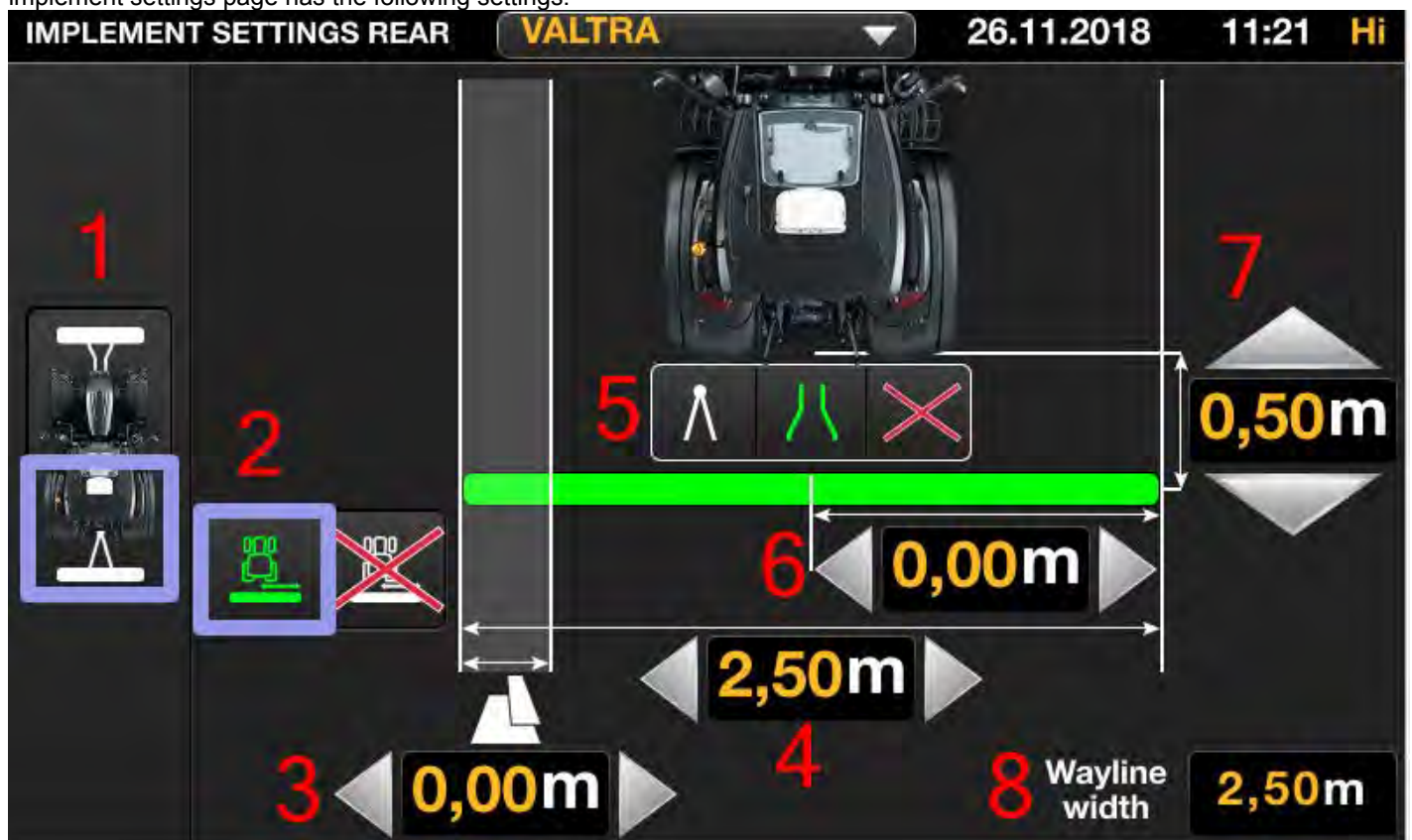


Draft]

8.2.2 Implement settings with Auto-Guide

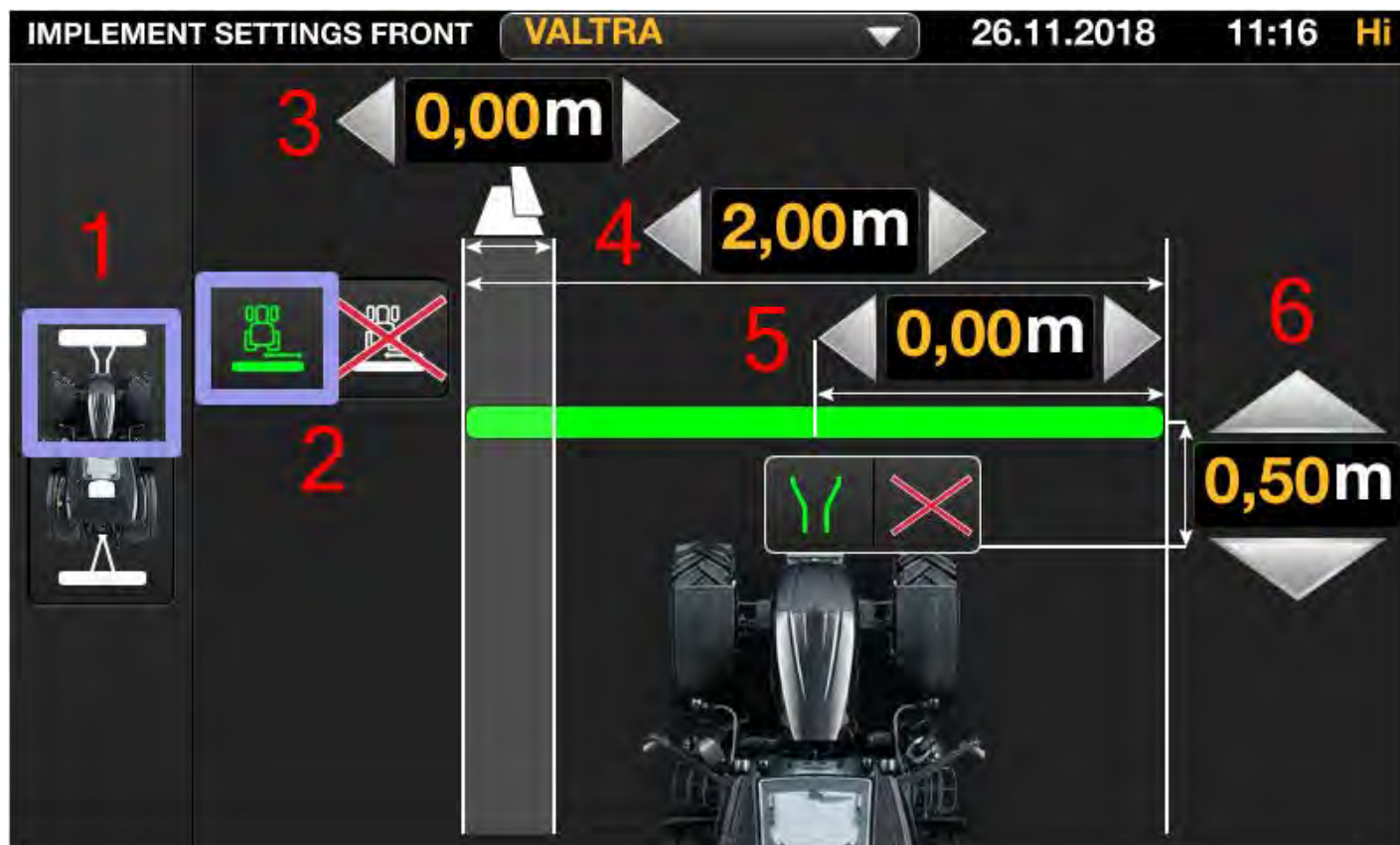
NT03VUI-811 - Implement settings page - with AutoGuide

AutoGuide system needs more information about the attached implements. In case the tractor is equipped with AutoGuide, implement settings page has the following settings:



1. Change between rear and front settings
2. Implement offset switch (ON/OFF) (6)
3. Overlap setting

4. Implement width
5. Rear implement connection type (Trailed/Hitch/No implement)
6. Implement offset value. Only visible when offset switch (2) is set on
7. Rear connection distance
8. Total wayline width display. Calculated from implement width and overlap value



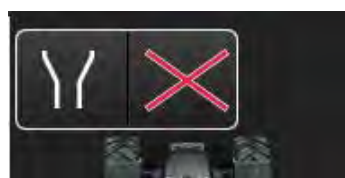
1. Change between rear and front settings
2. Implement offset switch (ON/OFF) (5)
3. Overlap setting
4. Implement width
5. Implement offset value. Only visible when offset switch (2) is set on
6. Front connection distance

[Draft]

NT03VUI-812 - Overlap setting



NT03VUI-813 - Front implement connection type setting



Front implement connection type. Hitch implement or no front implement. [Draft]

NT03VUI-814 - Front implement connection distance setting



Set front implement connection distance. [✎ Draft]

NT03VUI-815 - Rear implement connection type setting



Set rear implement connection type. Trailed, Hitch or No implement. [✎ Draft]

NT03VUI-816 - Rear implement connection distance setting



Set rear implement connection distance.

[✎ Draft]

NT03VUI-817 - Implement offset setting



To set implement offset this switch must be enabled.



After enabling implement offset a new component becomes visible where it is possible to set the implement offset. Tractor image on the page will move accordingly to visualize the setting. [✎ Draft]

NT03VUI-818 - Implement width setting



Set rear implement width.

[✎ Draft]

8.3 Camera

NT03VUI-819 - Camera page



Camera page has two main areas:

1. Change camera source. Source can also be changed by swiping the camera view
2. Change camera brightness
3. Change camera contrast
4. Toggle reverse automatics ON/OFF
5. Toggle camera mirroring ON/OFF

[Draft]

NT03VUI-820 - Camera source setting



Camera source can be changed by pressing this button on top of the camera stream. It is also possible to change the source by swiping the camera view. [Draft]

NT03VUI-821 - Camera brightness setting



Operator can change camera brightness with this button.

[Draft]

NT03VUI-822 - Camera contrast setting



Operator can change contrast with this button. [✎ Draft]

NT03VUI-823 - Camera reverse automatic setting



Operator can toggle camera reverse automatics ON/OFF with this button. If enabled a camera stream popup is displayed when drive lever is in R-position.

[✎ Draft]

NT03VUI-824 - Camera mirror setting

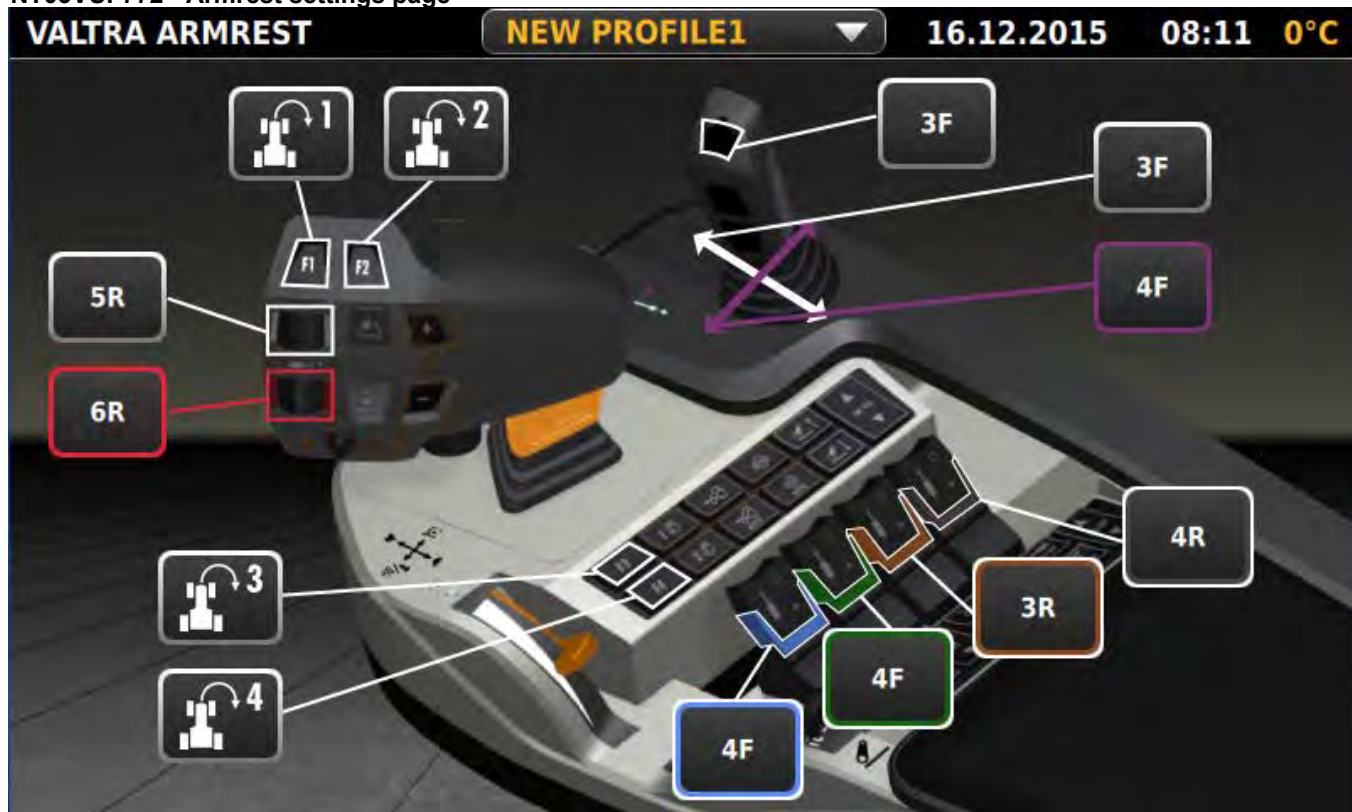


Operator can mirror camera stream by enabling this button.

[✎ Draft]

8.4 Armrest

NT03VUI-772 - Armrest settings page



Armrest page is accessed from Home page by pressing the following button:



Available controlling devices are shown on this page. Armrest page gives a good overall view on which functions or valves are operated from which control device.

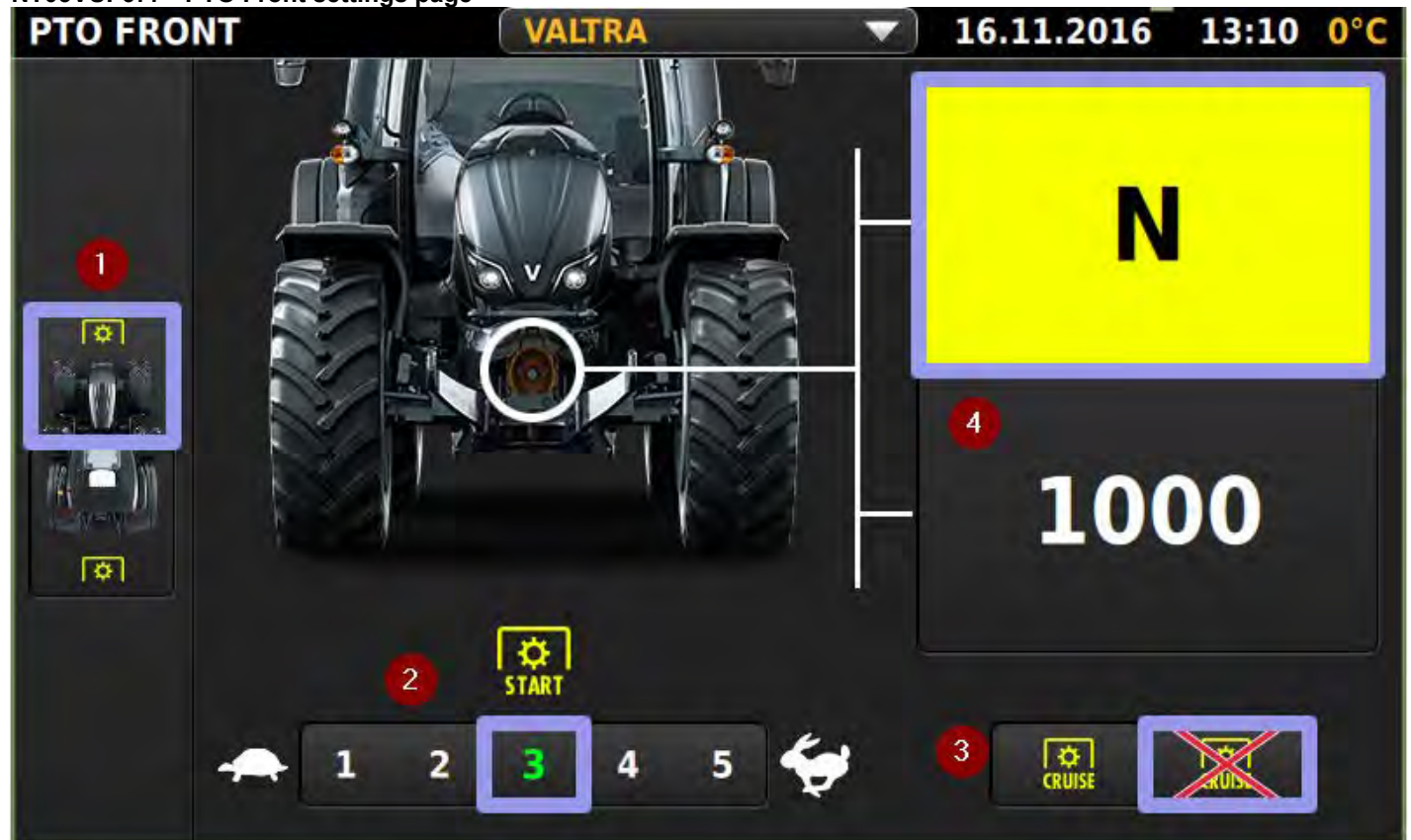
U-Pilot programming for function buttons is accessed from this page. U-Pilot functionality is described more detailed in U-Pilot chapter.

Hydraulics allocation can be done from this page or from Hydraulics page. This is described more detailed in Hydraulics chapter. [

Draft]

8.5 PTO front

NT03VUI-677 - PTO Front settings page

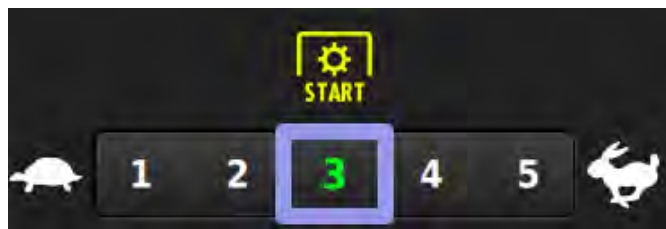


1. Switch between front/rear PTO settings pages
2. Set front PTO start ramp
3. Front PTO cruise ON/OFF switch
4. Set front PTO gear

If front PTO is running it is displayed on top of the tractor image and PTO gear setting is disabled.

[Draft]

NT03VUI-678 - Front PTO start ramp setting



Front PTO start ramp 1-5

Function not exist anymore

[🔧 Draft]

NT03VUI-679 - Front PTO cruise setting



Front PTO cruise ON/OFF

[🔍 Reviewed]

NT03VUI-680 - Front PTO gear setting



Set front PTO gear. Setting is disabled when front PTO is running.

[🔍 Reviewed]

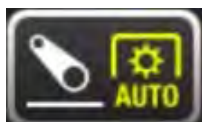
8.5.1 Automatic Front PTO configuration popup

NT03VUI-1394 - Front Auto PTO setting

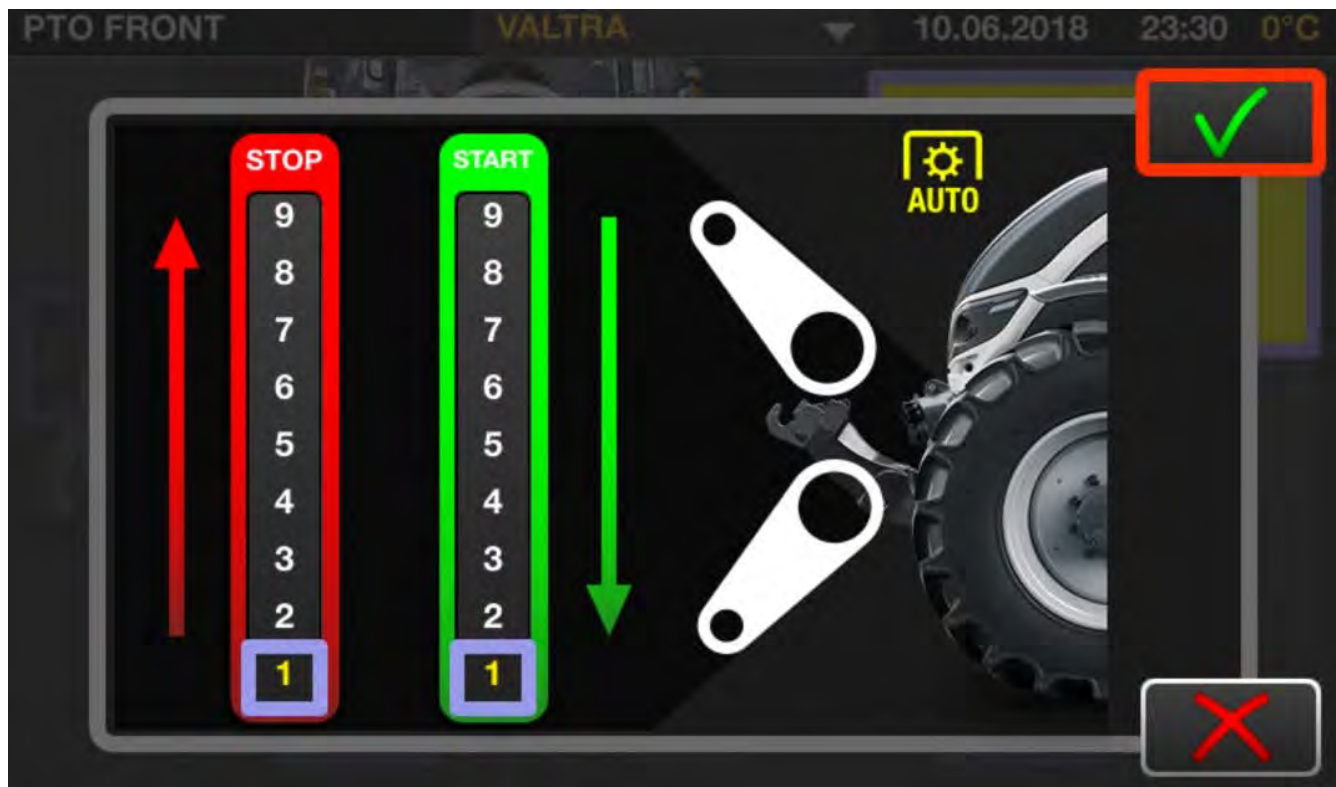


Automatic PTO can be enabled or disabled from this switch.

Front PTO is automatically started and stopped on set front linkage height positions when automatic PTO is enabled. These front linkage height positions can be configured in Automatic PTO configuration popup.



Open Automatic PTO configuration popup.

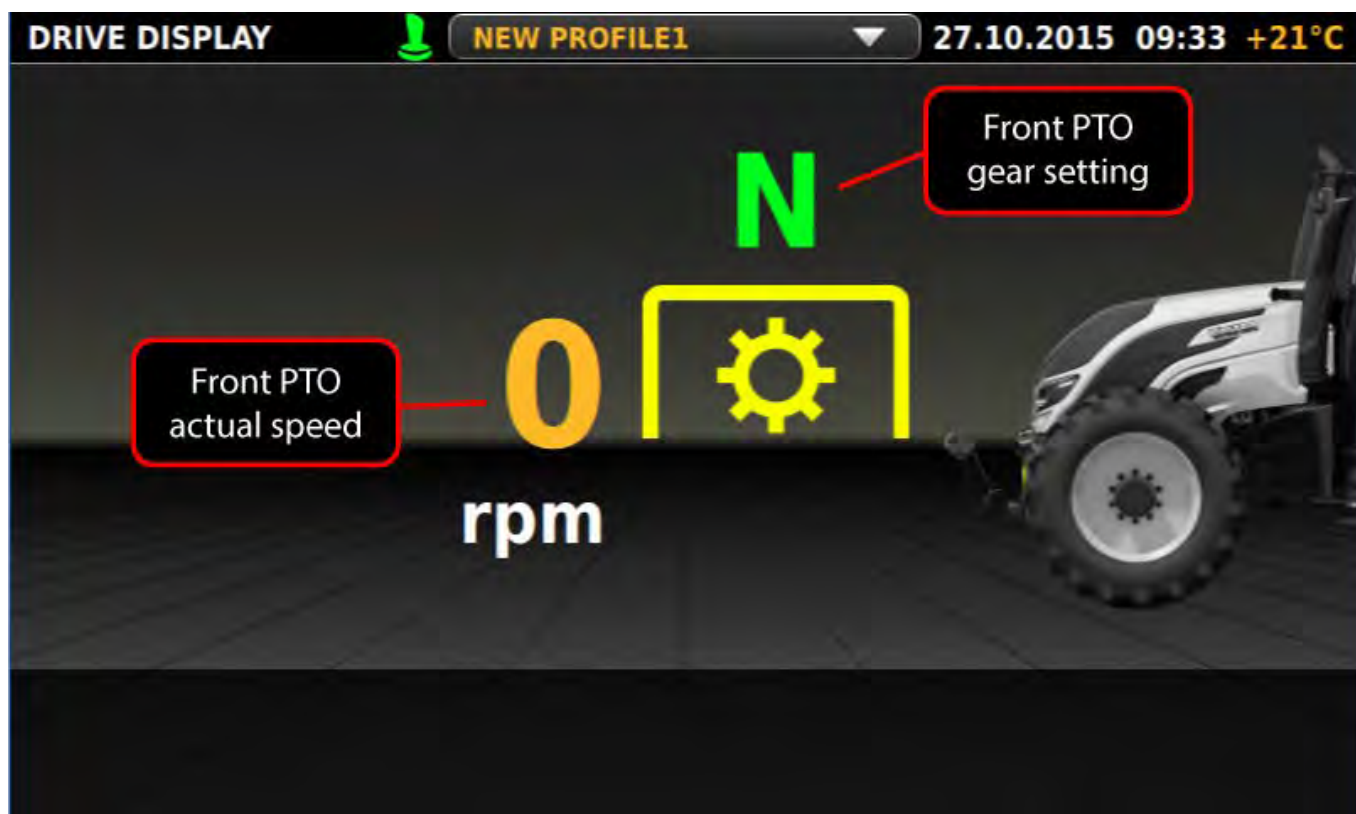


1. Set linkage height for PTO to START automatically
2. Set linkage height for PTO to STOP automatically

[Draft]

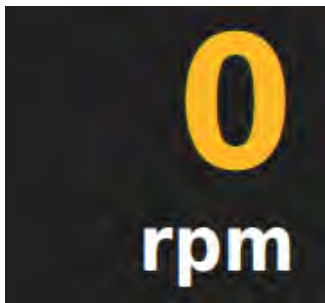
8.5.2 PTO front info screen

NT03VUI-681 - PTO Front info screen



Reviewed]

NT03VUI-682 - Front PTO speed info screen



Displays current front PTO speed.

[🔧 Reviewed]

NT03VUI-683 - Front PTO gear setting info screen

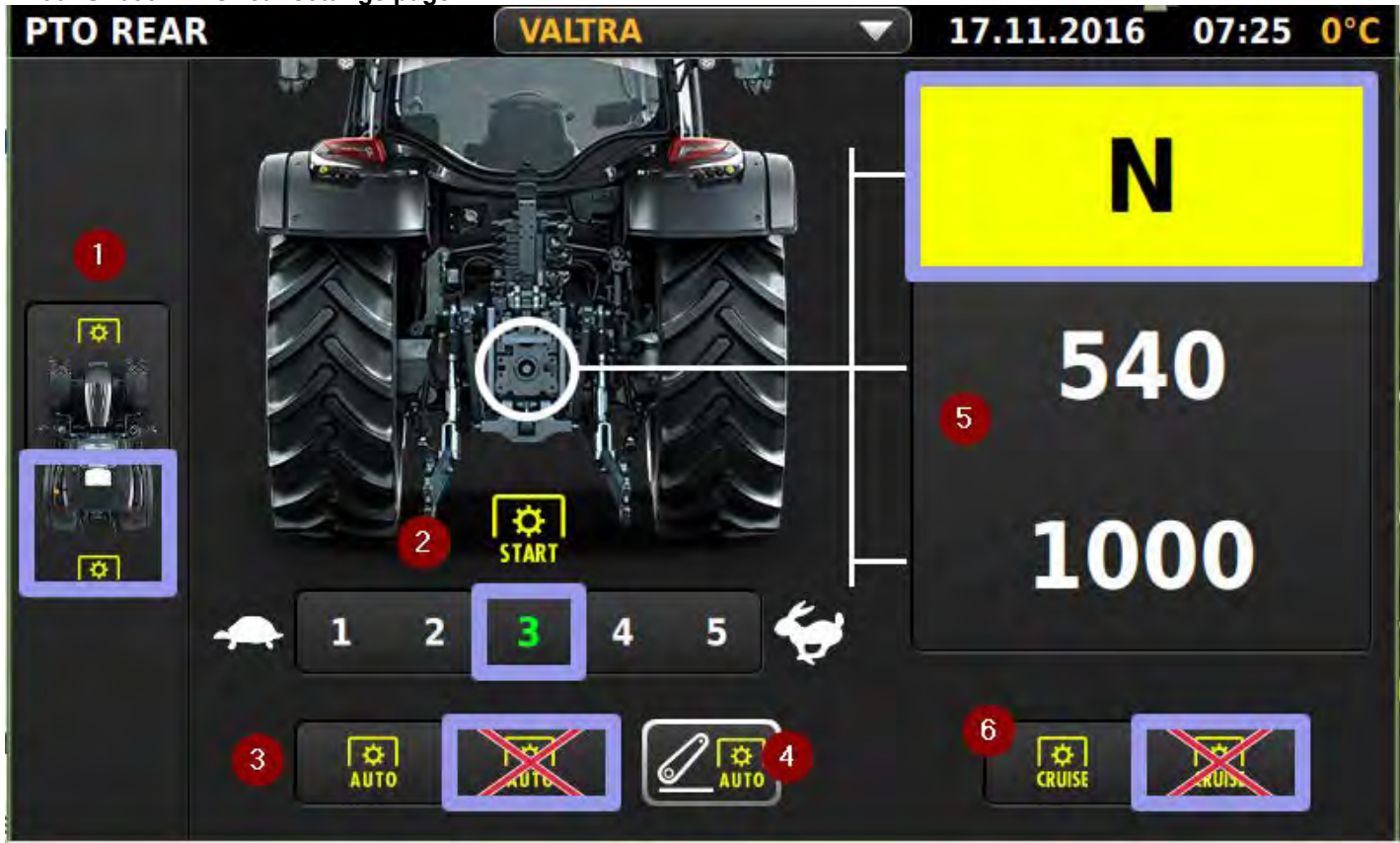


Displays the selected front PTO gear.

[🔧 Reviewed]

8.6 PTO Rear

NT03VUI-685 - PTO rear settings page

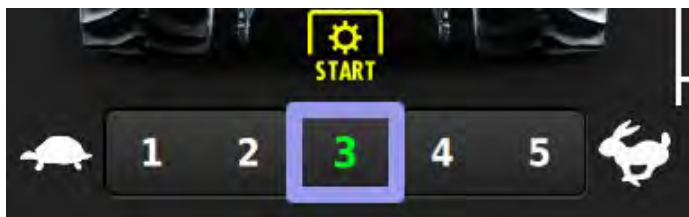


1. Switch between rear/front PTO settings pages
2. Set rear PTO start ramp
3. Automatic PTO ON/OFF switch

4. Open automatic PTO configuration popup
5. Set rear PTO gear
6. Rear PTO cruise ON/OFF switch

If rear PTO is running it is displayed on top of the tractor image and PTO gear setting is disabled similar to front PTO settings page. [🔍 Reviewed]

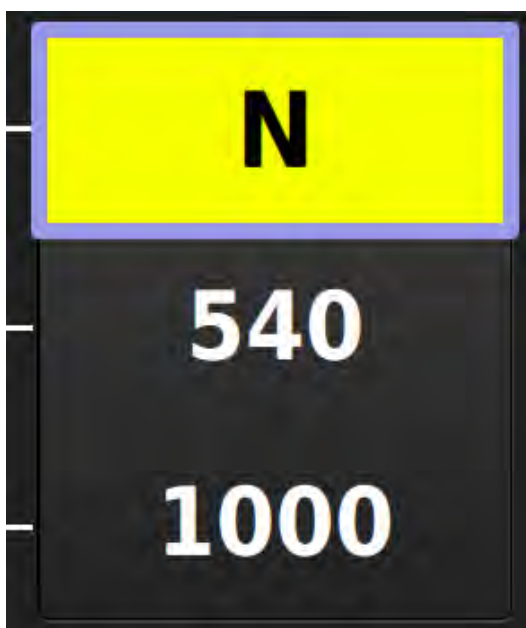
NT03VUI-686 - Rear PTO start ramp setting



Rear PTO start ramp 1-5.

[🔍 Reviewed]

NT03VUI-687 - Rear PTO gear setting



Available rear PTO gears are displayed on this component. Possible gears are: N, 540, 540E, 1000, 1000E and GSPTO. If configuration is changed the component is updated automatically.

Setting is disabled when rear PTO is running.

[🔍 Reviewed]

NT03VUI-688 - Rear PTO cruise setting



Set rear PTO cruise ON/OFF

[🔍 Reviewed]

8.6.1 Automatic Rear PTO configuration popup

NT03VUI-689 - Auto PTO setting

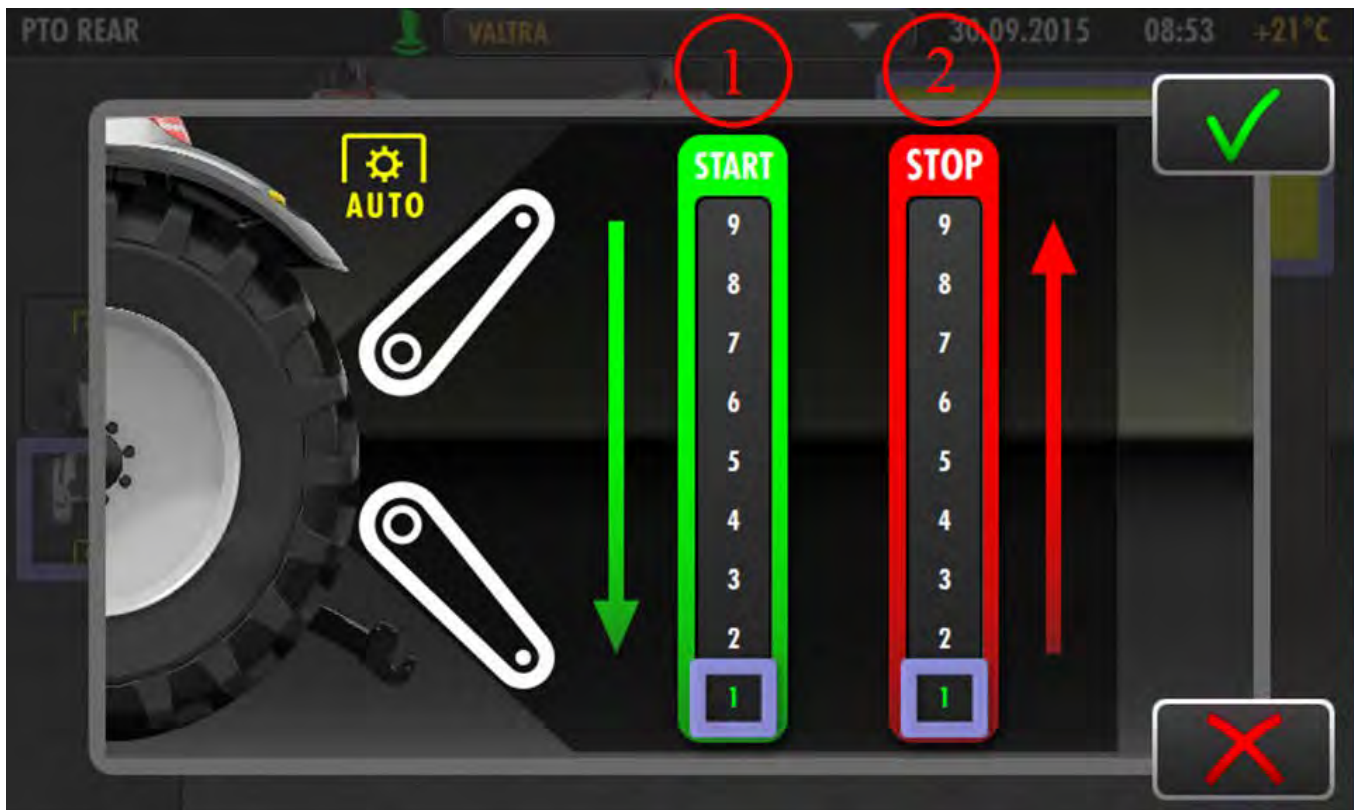


Automatic PTO can be enabled or disabled from this switch.

Rear PTO is automatically started and stopped on set rear linkage height positions when automatic PTO is enabled. These rear linkage height positions can be configured in Automatic PTO configuration popup.



Open Automatic PTO configuration popup.

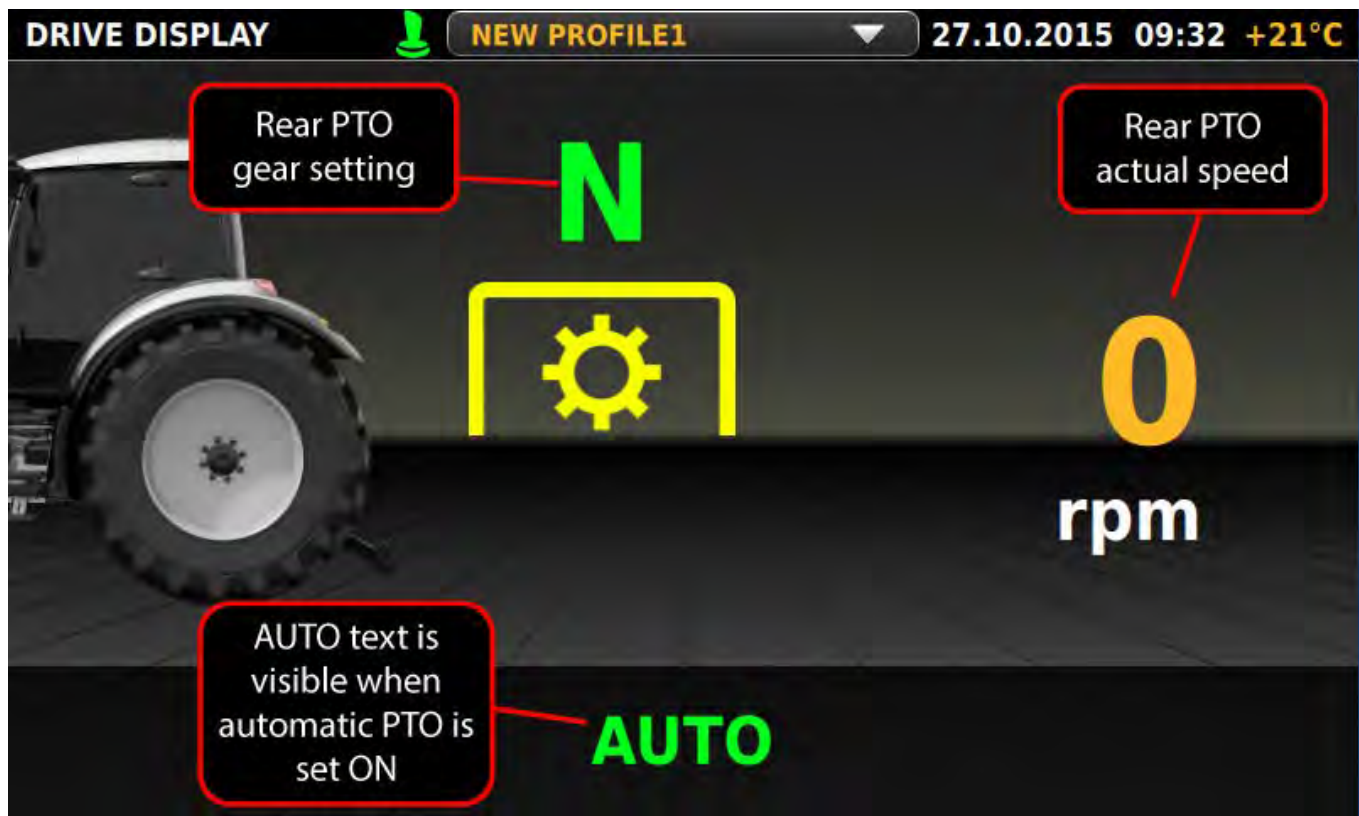


1. Set linkage height for PTO to START automatically
2. Set linkage height for PTO to STOP automatically

[ Reviewed]

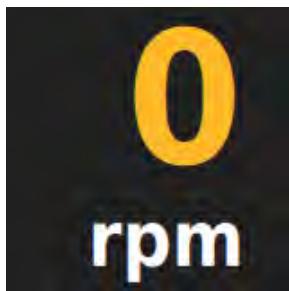
8.6.2 PTO rear info screen

NT03VUI-690 - PTO Rear info screen



Reviewed]

NT03VUI-691 - Rear PTO speed info screen



Displays current rear PTO speed [🔍 Reviewed]

NT03VUI-692 - Rear PTO gear setting info screen



Displays the selected rear PTO gear.

[🔍 Reviewed]

NT03VUI-693 - Auto PTO info screen



Indicator is only visible when Auto PTO is enabled.

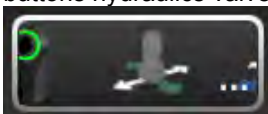
[🔍 Reviewed]



1. Hydraulics assistant ON/OFF toggle button
2. Switch between front/rear hydraulics settings pages
3. Available valves. Each valve row displays maximum flows set for extend and retract sides and also functions set. If a valve is locked or set as a priority valve, it is displayed in the center of the row. By pressing these buttons valve settings popup is opened.



4. These virtual valves are displayed if loader is available. These settings are used for valves 1F and 2F when user operates the loader with a control device allocated to these virtual valves. By pressing these buttons virtual valve settings popup is opened. These are only shown on front hydraulics page.
5. Control devices allocated for each valve. Each valve can have multiple control devices allocated for it. If a valve has more than two control devices allocated for it, allocated control devices are scrolled smoothly within a button. By pressing these buttons hydraulics valve allocation popup is opened.



6. These four buttons form a group of preset shortcut buttons. All of the visible (front or rear) valves can be locked or set to maximum flow of 10%,50% or 100% with float functions with one button press. Previous settings can be restored by deactivating the active shortcut button or by tapping on the darkened content area.



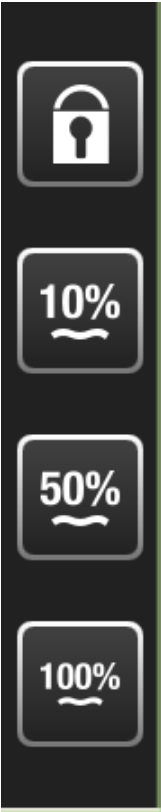
[👍 Reviewed]

NT03VUI-734 - Hydraulics assistant setting

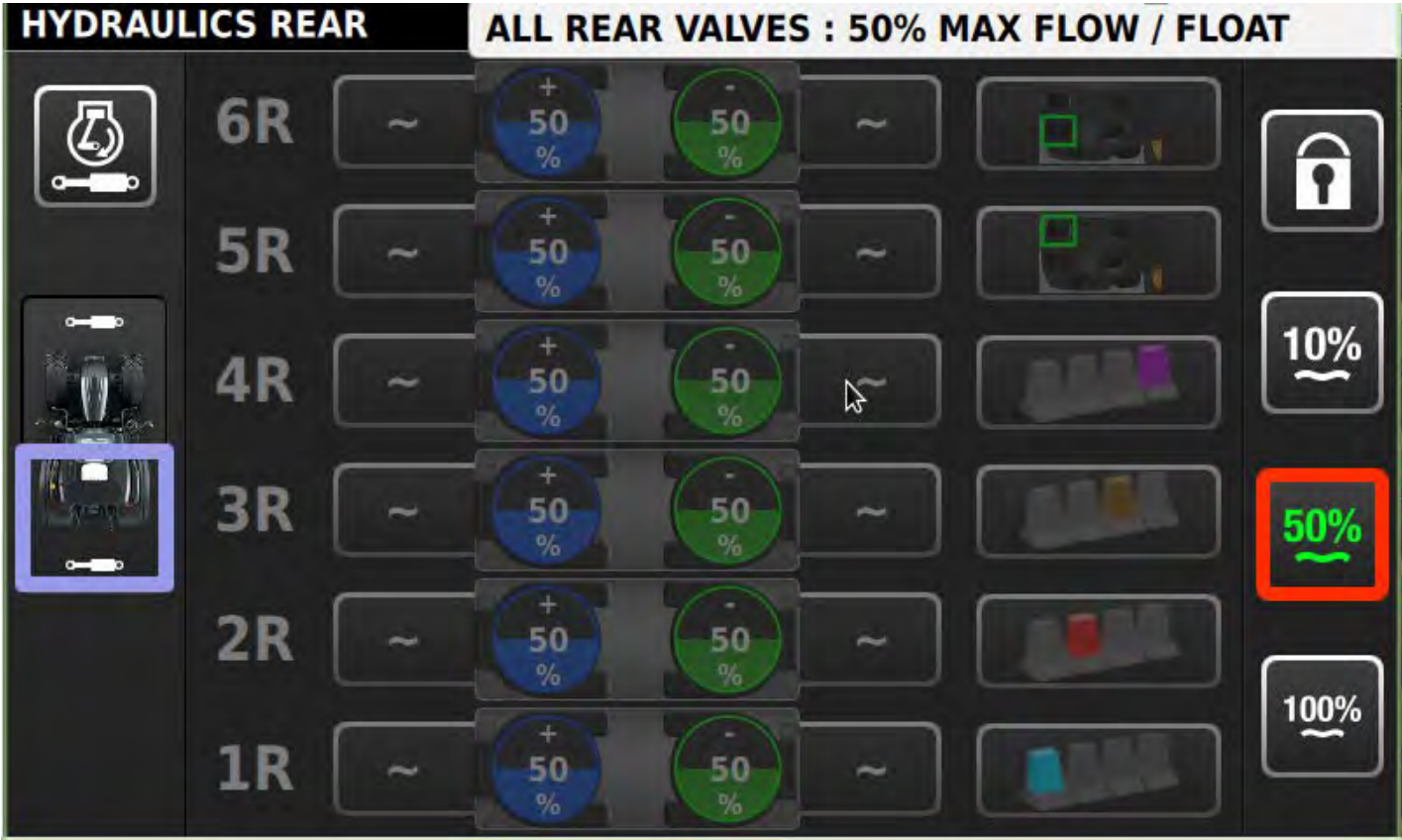


Toggle hydraulics assistant ON/OFF. [👍 Reviewed]

NT03VUI-735 - Hydraulics shortcut buttons for front/rear valves



These four buttons form a group of preset shortcut buttons. All of the visible (front or rear) valves can be locked or set to maximum flow of 10%,50% or 100% with float functions with one button press. Previous settings can be restored by deactivating the active shortcut button or by tapping on the darkened content area.



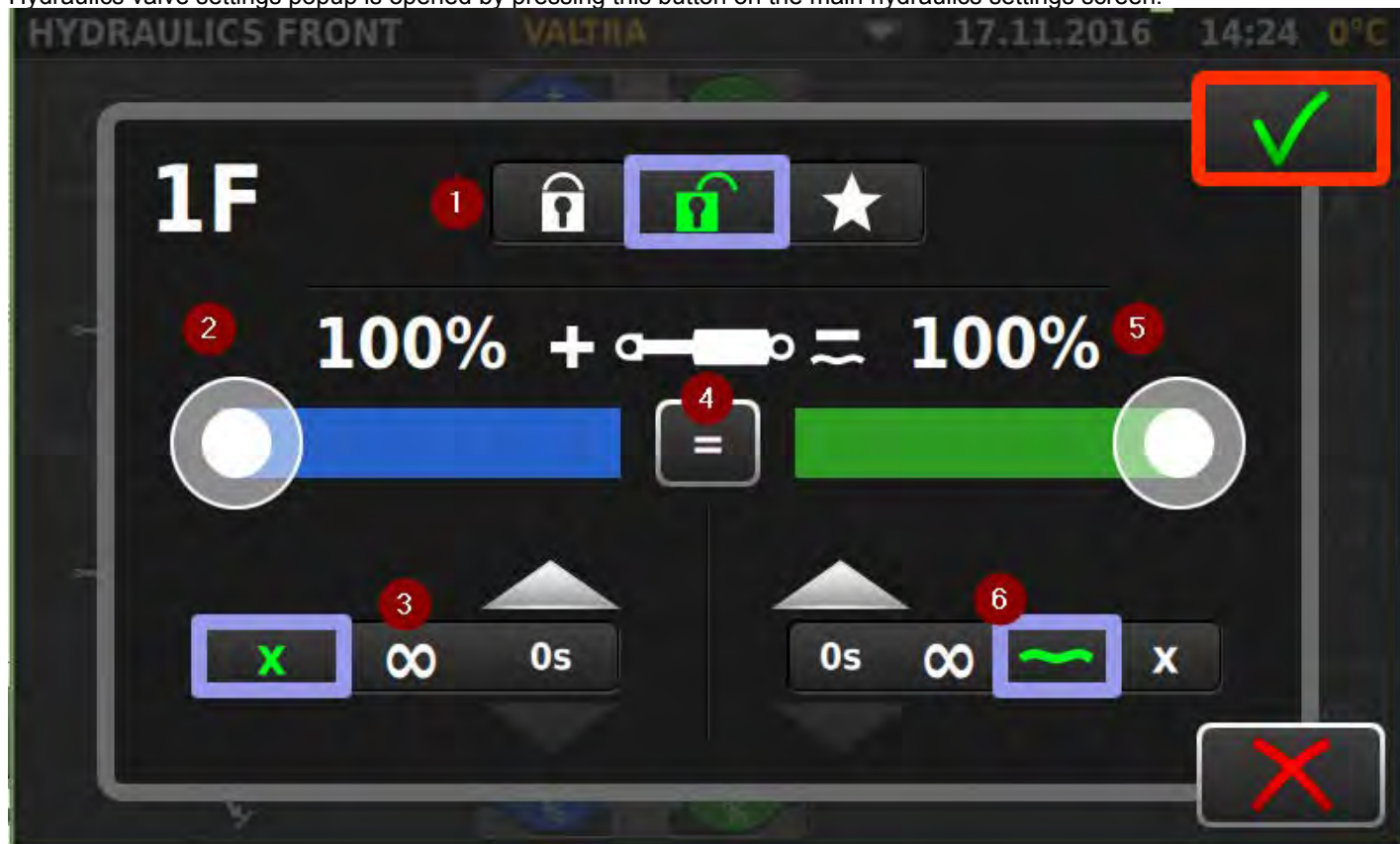
rear valves set to 50% maximum flow and float functions.

8.7.1 Hydraulics valve settings popup

NT03VUI-736 - Hydraulics valve settings popup



Hydraulics valve settings popup is opened by pressing this button on the main hydraulics settings screen.



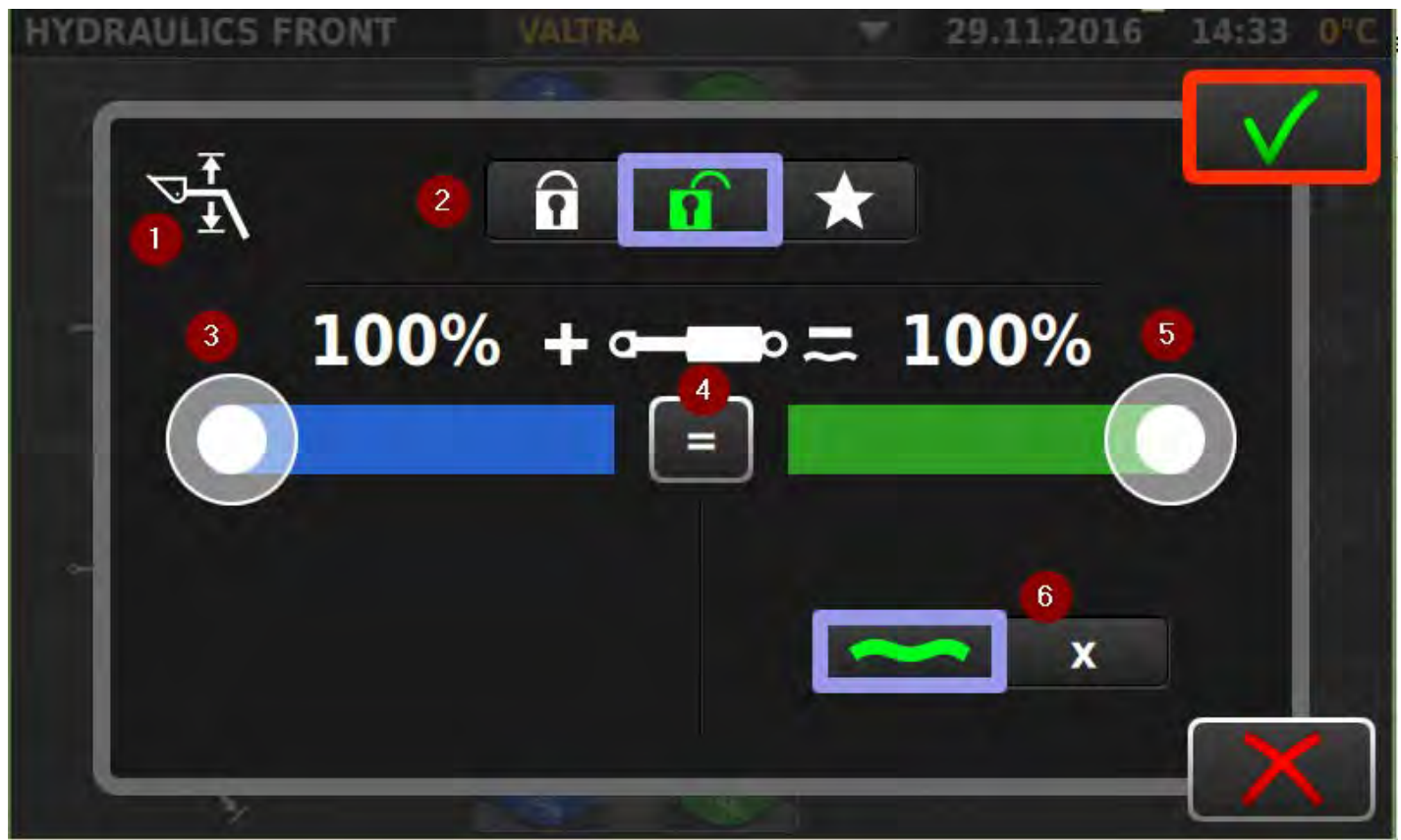
1. Lock, open or set the selected valve as a priority valve. When valve is open with priority, sufficient hydraulic flow for the valve is ensured in all situations.
2. Maximum flow in extend side. Can be set between 5 % - 100 % by moving the slider.
3. Function selection for extend side. Possible functions are: no function- infinite timer - timer with selectable duration. Function is triggered when the allocated controlling device is moved to function area.
4. Link setting sliders. If sliders are linked changing one slider's value will also change the other slider's value.
5. Maximum flow in retract side. Can be set between 5 % - 100 % by moving the slider.
6. Function selection for retract side. Possible functions are: timer with selectable duration - infinite timer - float - no function. Function is triggered when the allocated controlling device is moved to function area.

[Reviewed]

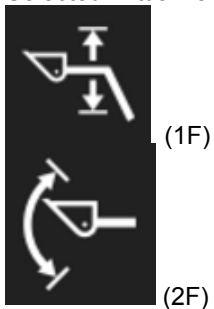
NT03VUI-933 - Hydraulics virtual valve settings popup



These virtual valves are displayed if loader is available. These settings are used for valves 1F and 2F when user operates the loader with a control device allocated to these virtual valves. By pressing these buttons virtual valve settings popup is opened. These are only shown on front hydraulics page.



1. Selected virtual valve.



2. Lock, open or set the selected virtual valve as a priority valve. When valve is open with priority, sufficient hydraulic flow for the valve is ensured in all situations.
3. Maximum flow in extend side. Can be set between 5 % - 100 % by moving the slider.
4. Link setting sliders. If sliders are linked changing one slider's value will also change the other slider's value.
5. Maximum flow in retract side. Can be set between 5 % - 100 % by moving the slider.
6. Function selection for retract side. Possible functions are: float - no function. Function is triggered when the allocated controlling device is moved to function area.

[👤 Reviewed]

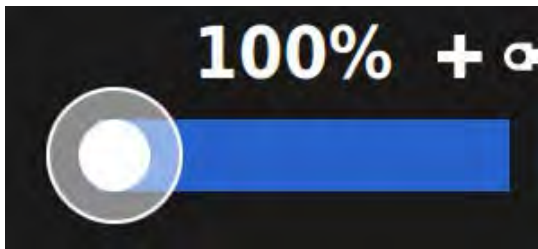
NT03VUI-737 - Hydraulics valve locked/priority setting



Valve can be locked, opened or set as a priority valve. When valve is open with priority, sufficient hydraulic flow for the valve is ensured in all situations. Only one valve can have the priority, if user selects priority for second valve first selection will be cleared.

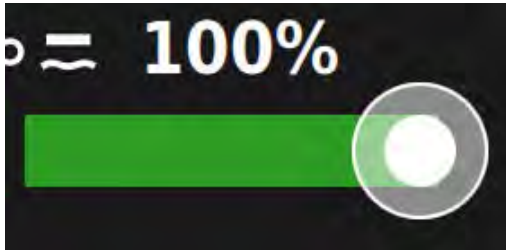
[👤 Reviewed]

NT03VUI-738 - Hydraulics valve's maximum extend flow setting



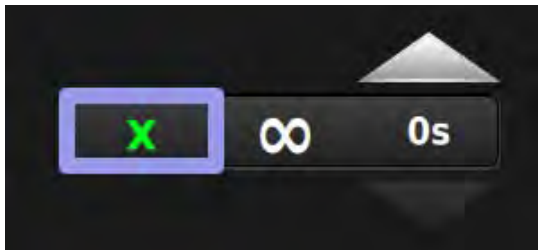
Maximum flow in extend side. Can be set between 5 % - 100 % by moving the slider. [👤 Reviewed]

NT03VUI-739 - Hydraulics valve's maximum retract flow setting



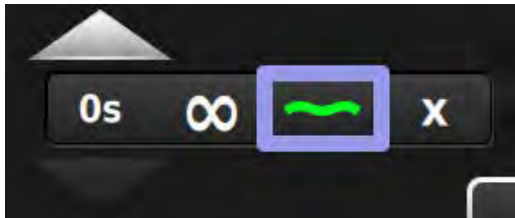
Maximum flow in retract side. Can be set between 5 % - 100 % by moving the slider. [👤 Reviewed]

NT03VUI-740 - Hydraulics valve's extend side function setting



Function selection for extend side. Possible functions are: no function- infinite timer - timer with selectable duration (max 60 seconds). Function is triggered when the allocated controlling device is moved to function area. [👤 Reviewed]

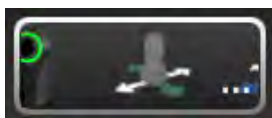
NT03VUI-741 - Hydraulics valve's retract side function setting



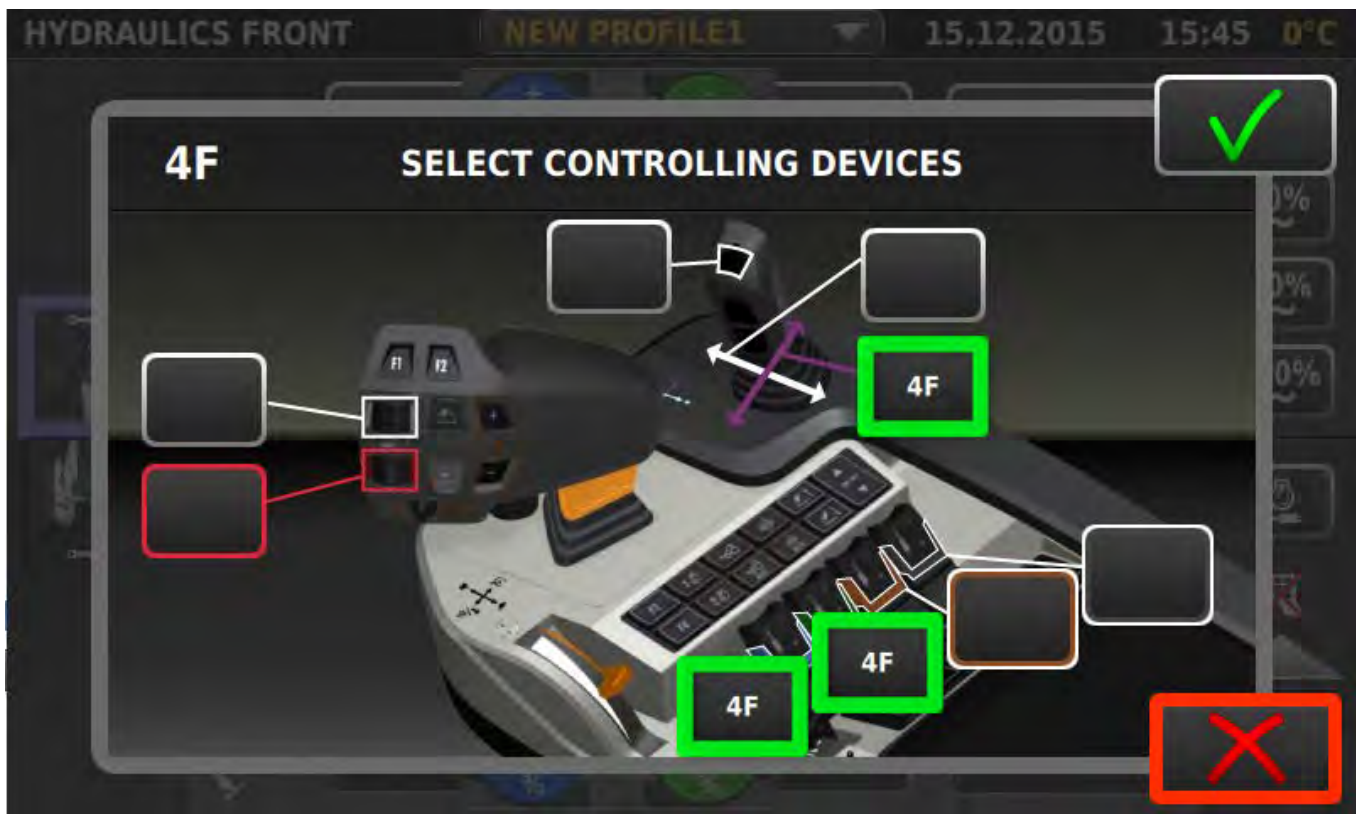
Function selection for retract side. Possible functions are: timer with selectable duration (max 60 seconds) - infinite timer - float - no function. Function is triggered when the allocated controlling device is moved to function area. [👤 Reviewed]

8.7.2 Hydraulics valve allocation popup

NT03VUI-742 - Hydraulics valve allocation popup



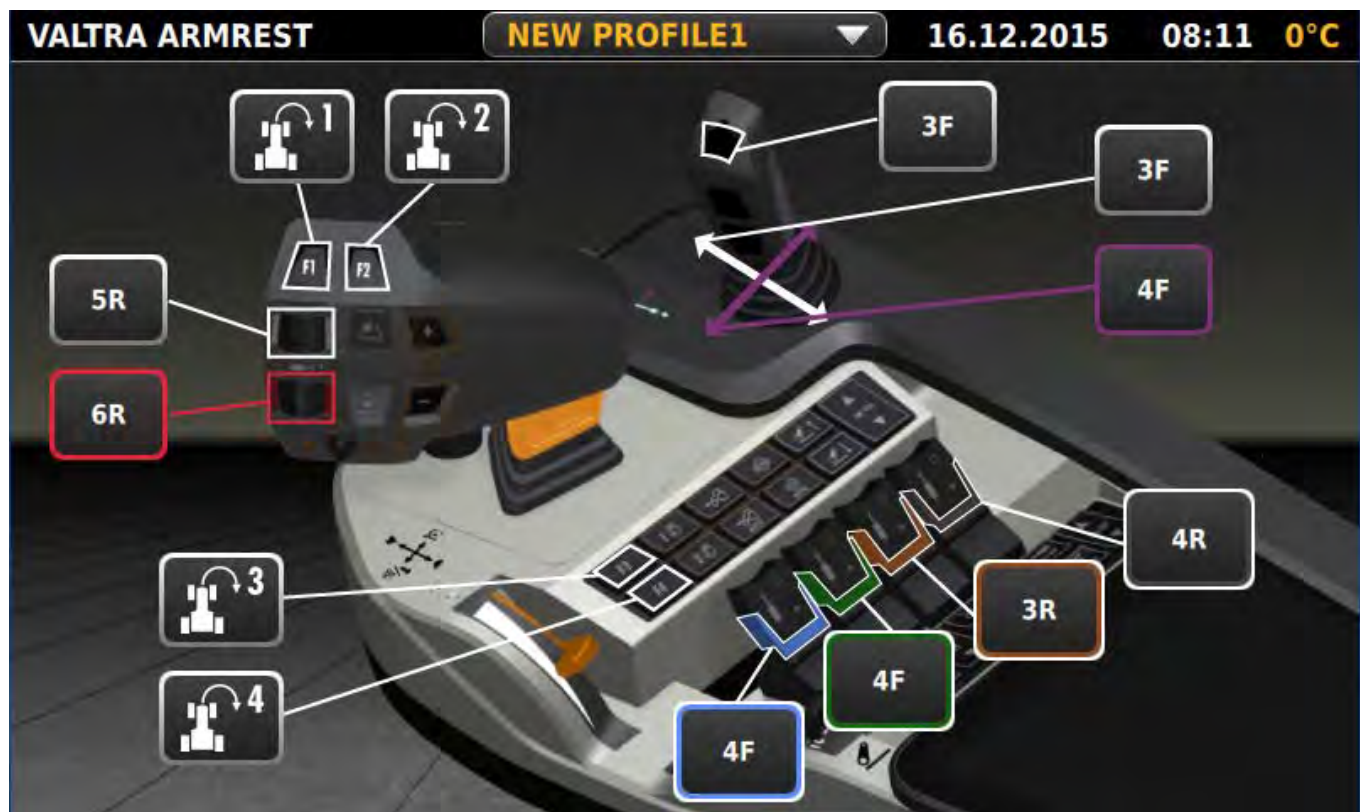
Hydraulics valve allocation popup is opened by pressing this button on the main hydraulics settings screen.



Available controlling devices are displayed on this popup. User can allocate the selected valve to any of the available controlling devices. [Reviewed]

8.7.3 Hydraulics allocation from Armrest page

NT03VUI-743 - Hydraulics allocation from Armrest page



It is possible to make hydraulics allocations also from Armrest page. By pressing on the desired controlling device a popup for valve allocation is opened. Valve allocation popup displays available front and rear valves and by selecting a valve it is allocated to the selected controlling device. Front and rear linkage can also be allocated by selecting the corresponding buttons from the popup.



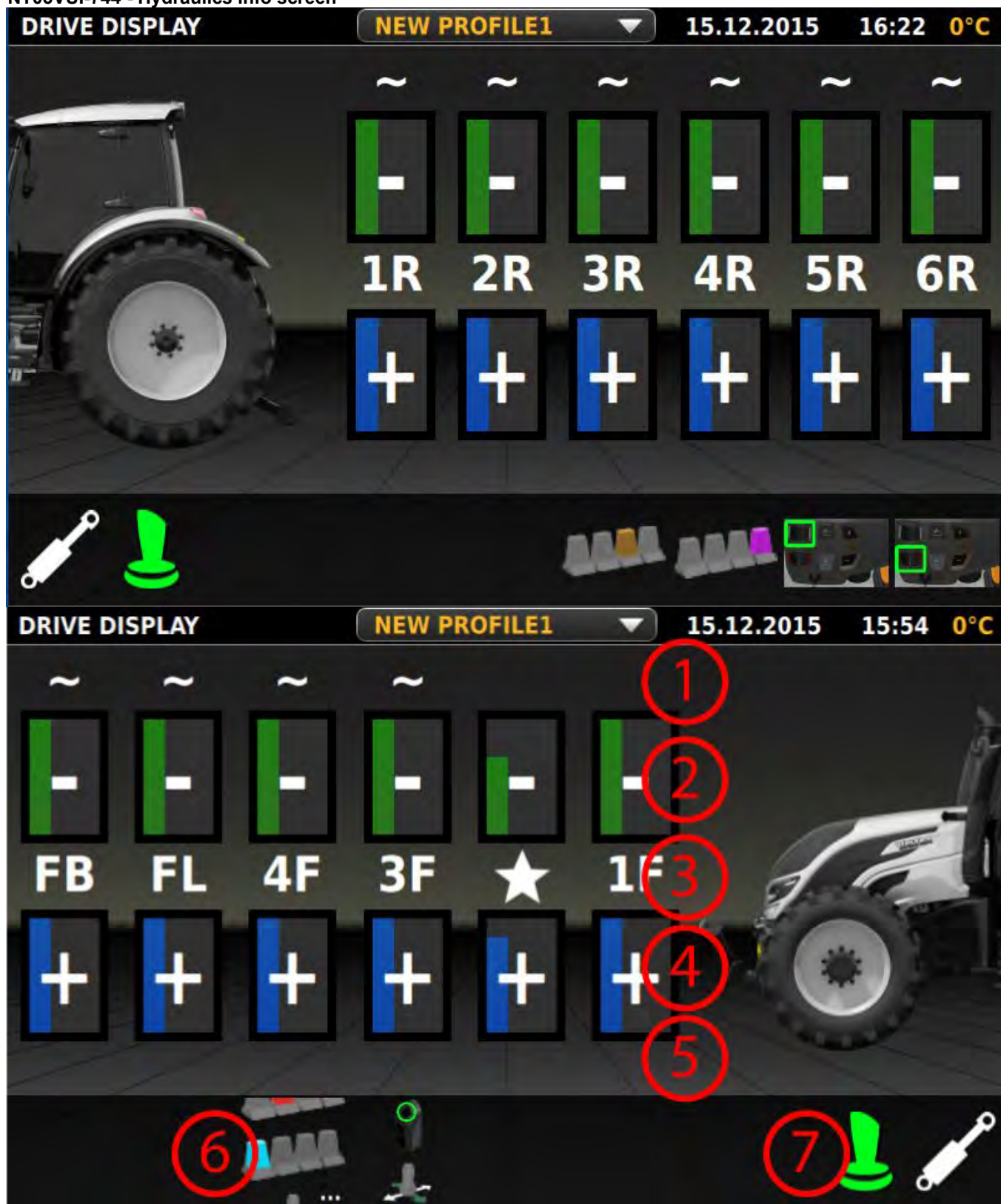
When allocating hydraulics joystick X- or Y-axes, the allocation popup contains a shortcut button to quickly allocate both joystick axes to loader and bucket.



Reviewed]

8.7.4 Hydraulics info screens

NT03VUI-744 - Hydraulics info screen



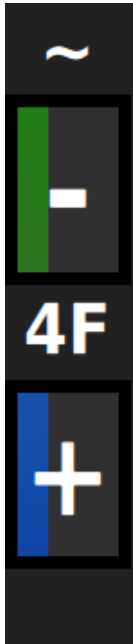
Available valves are listed on hydraulics info screens. Front hydraulics info screen also shows virtual loader valves if front loader is available.

1. Selected function for valve retract side
2. Maximum flow setting and the current flow for retract side. Maximum setting is the green bar on left and the current flow is displayed as a green bar on right (not visible in picture).
3. The name of the valve. If the valve is locked or set as a priority valve, it is displayed instead of the name.
4. Maximum flow setting and the current flow for extend side. Maximum setting is the blue bar on left and the current flow is displayed as a blue bar on right (not visible in picture).

5. Selected function for valve extend side
6. Allocated controlling devices for the valve
7. Joystick is visible if hydraulics joystick is enabled (deprecated)

[👍 Reviewed]

NT03VUI-825 - Hydraulics function info screen



Set hydraulics function is displayed on top of the valve's retract port or under the valve's extend port. In the image above float function is set for 4F valve's retract side and there is no function for extend side.

[👍 Reviewed]

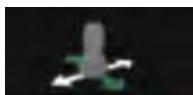
NT03VUI-826 - Hydraulics flow info screen



Maximum set hydraulics flow is displayed on the left side of the valve's port and the current flow is shown on the right side (no current flow in the above image).

[👍 Reviewed]

NT03VUI-827 - Allocated controlling devices info screen



Controlling devices allocated for a valve are displayed on the hydraulics info screen's bottom bar under the corresponding valve.

[👍 Reviewed]

8.8 Engine

NT03VUI-698 - Engine settings page



1. Minimum engine RPM
2. Memory slot 1 for engine RPM
3. Memory slot 2 for engine RPM
4. Maximum engine RPM
5. Engine break setting. Higher value means more aggressive engine break.
6. ECO mode setting for ECO models.

Overall engine rpm settings status can be easily seen from the tachometer. Precise values are displayed in buttons below the tachometer. Values can be adjusted by dragging the tachometer handles or by pressing the corresponding buttons and entering the value with number scroller component.



[🔍 Reviewed]

NT03VUI-699 - Minimum engine RPM setting

Minimum engine RPM can be set by dragging the tachometer's minimum RPM handle or by pressing the corresponding button beneath the tachometer and setting the value with number scroller component.



Minimum RPM drag handle.



Button to activate number scroller.

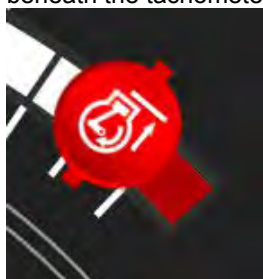


Number scroller to set minimum RPM.

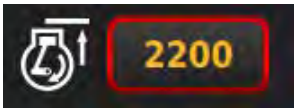
[🔍 Reviewed]

NT03VUI-700 - Maximum engine RPM setting

Maximum engine RPM can be set by dragging the tachometer's maximum RPM handle or by pressing the corresponding button beneath the tachometer and setting the value with number scroller component.



Maximum RPM drag handle.



Button to activate number scroller



Number scroller to set maximum RPM.

[🔍 Reviewed]

NT03VUI-701 - RPM cruise setting

User can set two RPM cruise values to memory. This can be done by dragging cruise memory handles or by pressing the corresponding buttons beneath the tachometer and setting the values with number scroller components.



RPM cruise drag handles.

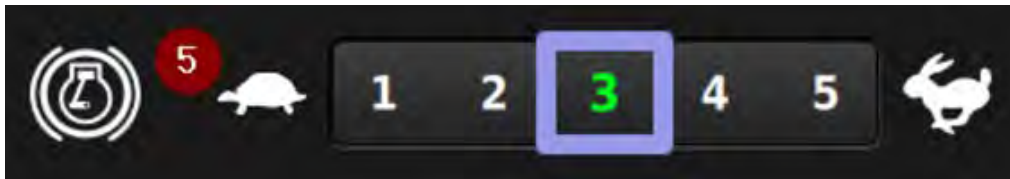


Buttons to activate number scrollers.



Number scroller to set RPM cruise. [Reviewed]

NT03VUI-745 - Engine break setting



Engine break setting 1-5. Higher value means more aggressive engine break.

[Reviewed]

NT03VUI-746 - ECO mode setting



ECO mode ON/OFF switch.

[Reviewed]

8.9 Lights

NT03VUI-702 - Lights settings page



Lights page shows available working lights and enables user to make desired lights configuration. Configuration is then set ON/OFF from the physical button in armrest. It is also possible to enable reverse automatics for rear working lights. If set ON, related working light will be switched on automatically when shuttle lever is moved to R-position.

Lights configuration buttons have three states:



Work lights info popup is displayed when lights are actually turned on. The configuration can also be changed from there. [Reviewed]

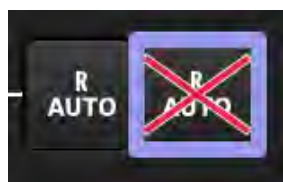
NT03VUI-1058 - Lights configuration button states

Lights configuration buttons have three states:



[Reviewed]

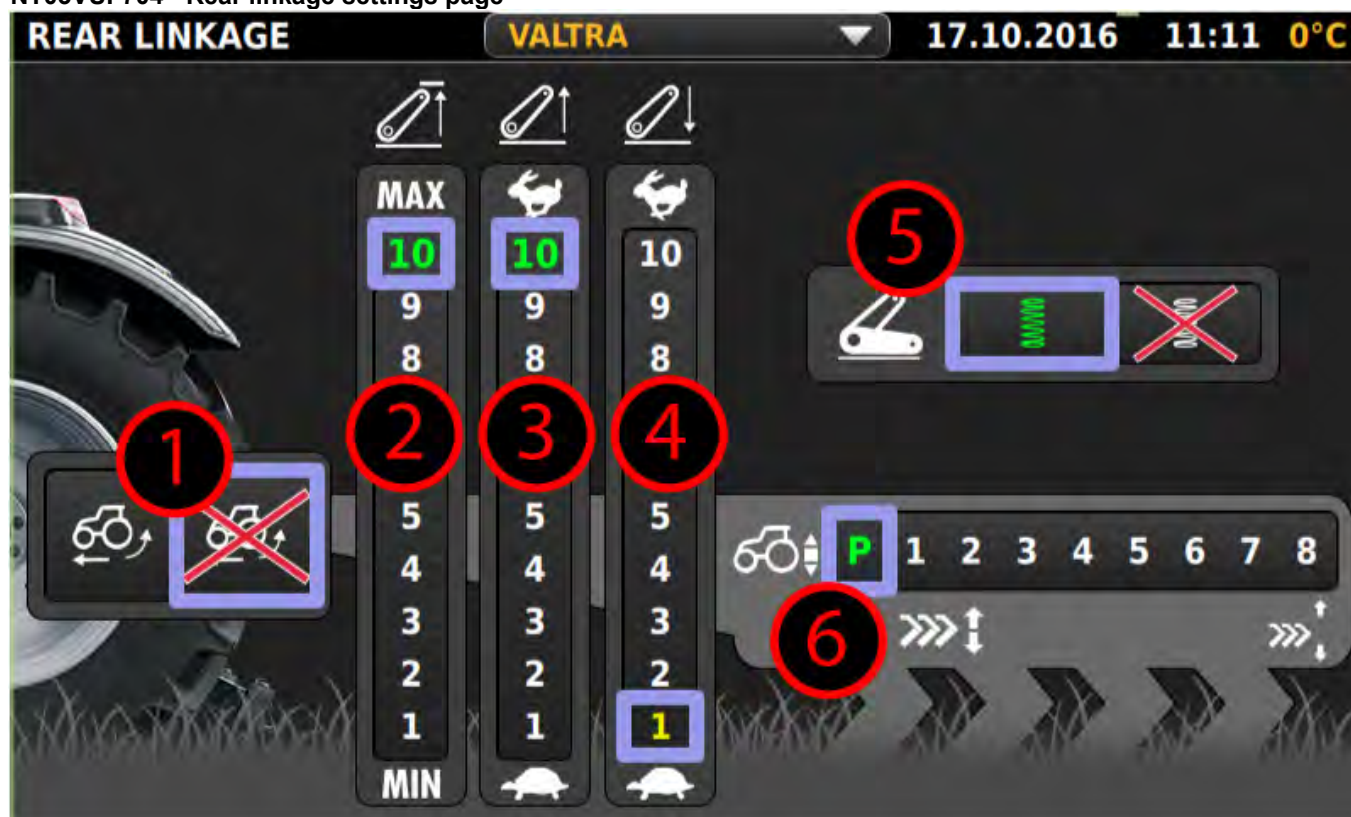
NT03VUI-703 - Work lights reverse automatics setting



Set reverse automatics ON/OFF. Related rear working lights are automatically switched on when shuttle lever is moved to R-position when this setting is enabled.

8.10 Rear linkage

NT03VUI-704 - Rear linkage settings page



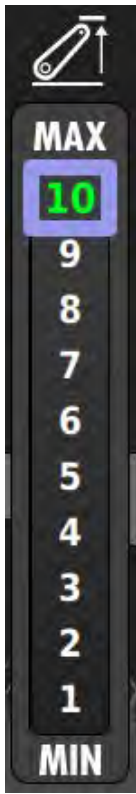
1. Slip control
Linkage is raised automatically if wheels starts to slip. ON/OFF
2. Maximum lifting position
Linkage is not lifted above this value in work and transport position. Can be bypassed only using external switches. Value range is from 10% - 100% of maximum available movement area.
3. Lifting speed
Bigger value means faster lifting speed.
4. Lowering speed
Bigger value means faster lowering speed.
5. Damping / Drive balance control switch
Active only in transport mode.
6. Draft control
Linkage is raised automatically if resistance of the implement increases too much. Bigger value means bigger correction value.

NT03VUI-706 - Rear linkage slip control setting



Set linkage slip control ON/OFF. Linkage is raised automatically if wheels start to slip when setting is enabled.

NT03VUI-707 - Rear linkage maximum lifting position setting



Linkage is not lifted above this value in work and transport position. Can be bypassed only using external switches. Value range is from 10% - 100% of maximum available movement area.

[🔍 Reviewed]

NT03VUI-708 - Rear linkage lifting speed setting



Bigger value means faster lifting speed.

[🔍 Reviewed]

NT03VUI-709 - Rear linkage lowering speed setting



Bigger value means faster lowering speed.

[🔍 Reviewed]

NT03VUI-710 - Rear linkage damping setting

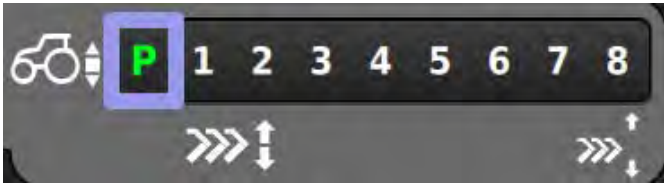


Set damping / drive balance control ON/OFF.

Only in effect in transport mode.

[🔍 Reviewed]

NT03VUI-711 - Rear linkage draft control setting



Linkage is raised automatically if resistance of the implement increases too much. Bigger value means bigger correction value.

[🔍 Reviewed]

8.10.1 Rear linkage info screen

NT03VUI-705 - Rear linkage info screen



1. Actual state of the rear linkage

Damping	Working	Transport	Lock	Stop	Float	Lifting	Lowering

2. Draft control setting
3. Lifting speed setting
4. Lowering speed setting
5. Current linkage position. Also shown on the scale.
6. Maximum lifting position. Covers the scale according to setting value.
7. Current position of work position slider. Also shown on the scale.

[Reviewed]

NT03VUI-712 - Rear linkage actual state info screen



Actual state of the rear linkage

Damping	Working	Transport	Lock	Stop	Float	Lifting	Lowering

[👤 Reviewed]

NT03VUI-713 - Rear linkage draft control setting info screen



Draft control setting is displayed. [👤 Reviewed]

NT03VUI-714 - Rear linkage lifting speed setting info screen



Lifting speed setting is displayed. [👤 Reviewed]

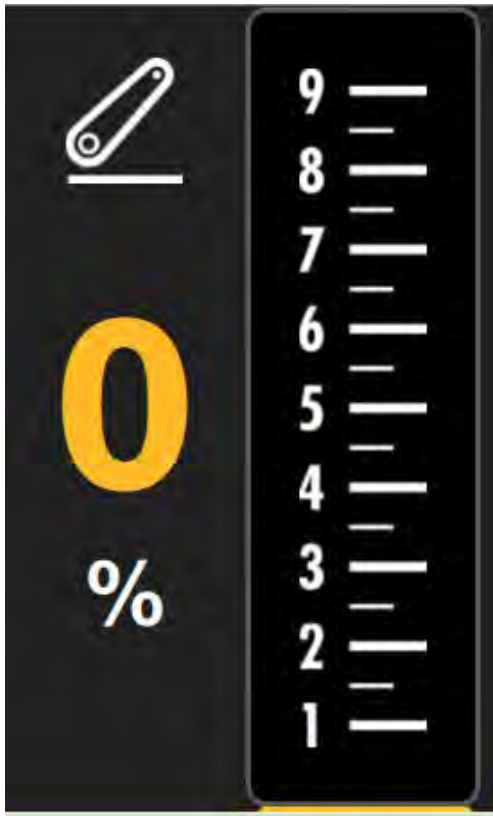
NT03VUI-715 - Rear linkage lowering speed setting info screen



Lowering speed setting is displayed

[👤 Reviewed]

NT03VUI-716 - Rear linkage current position info screen



Rear linkage current position as a percentage of available movement area. Is also shown on the scale.

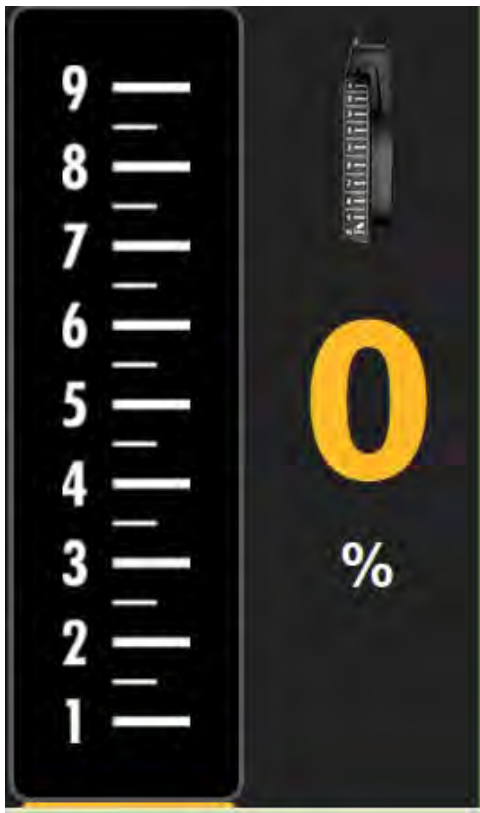
[👍 Reviewed]

NT03VUI-717 - Rear linkage maximum lifting position setting info screen



Maximum lifting position setting. Covers the scale according to setting value. [👍 Reviewed]

NT03VUI-718 - Rear linkage work position slider info screen

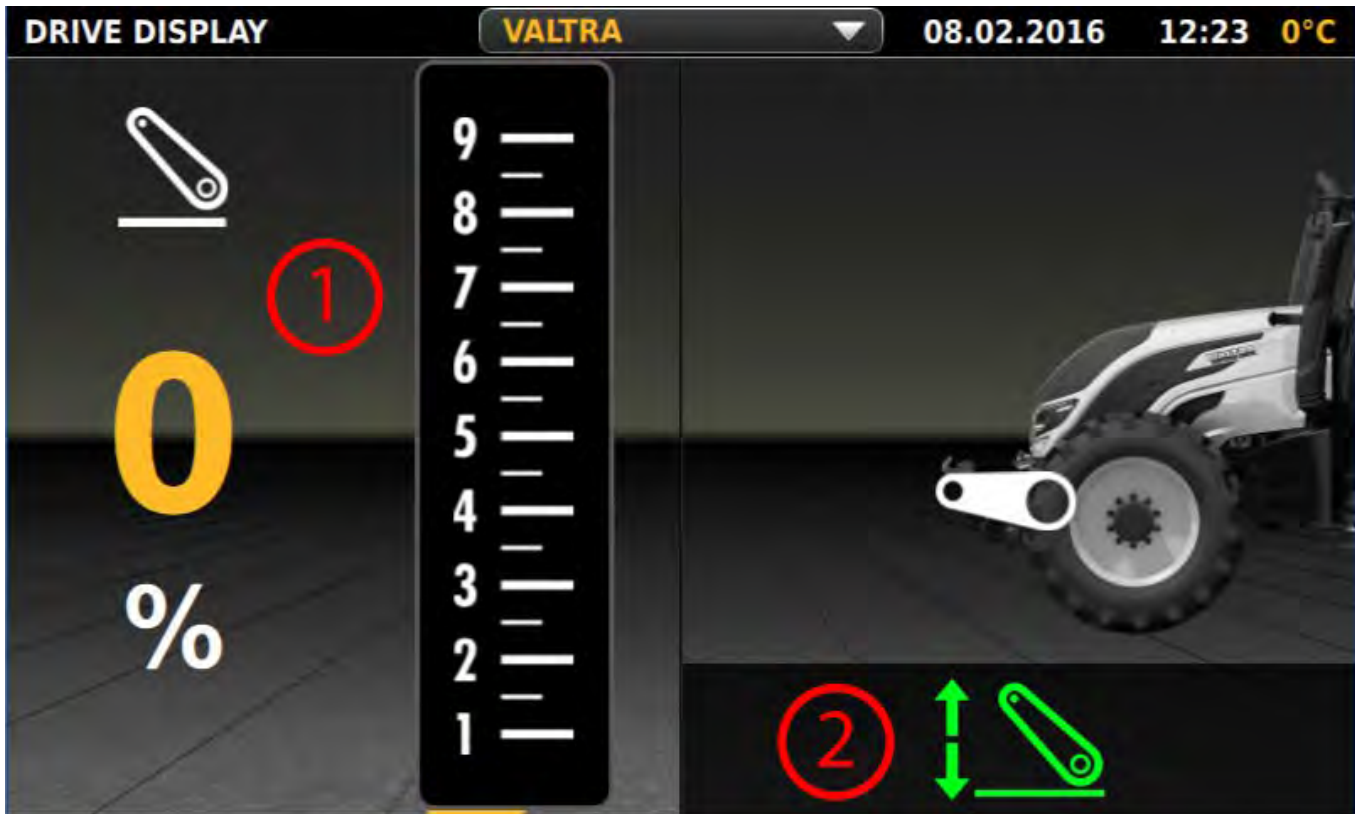


Current position of the work position slider as a percentage of available movement area. Also shown on the scale. [👤 Reviewed]

8.11 Front linkage

8.11.1 Front linkage info screen

NT03VUI-719 - Front linkage info screen



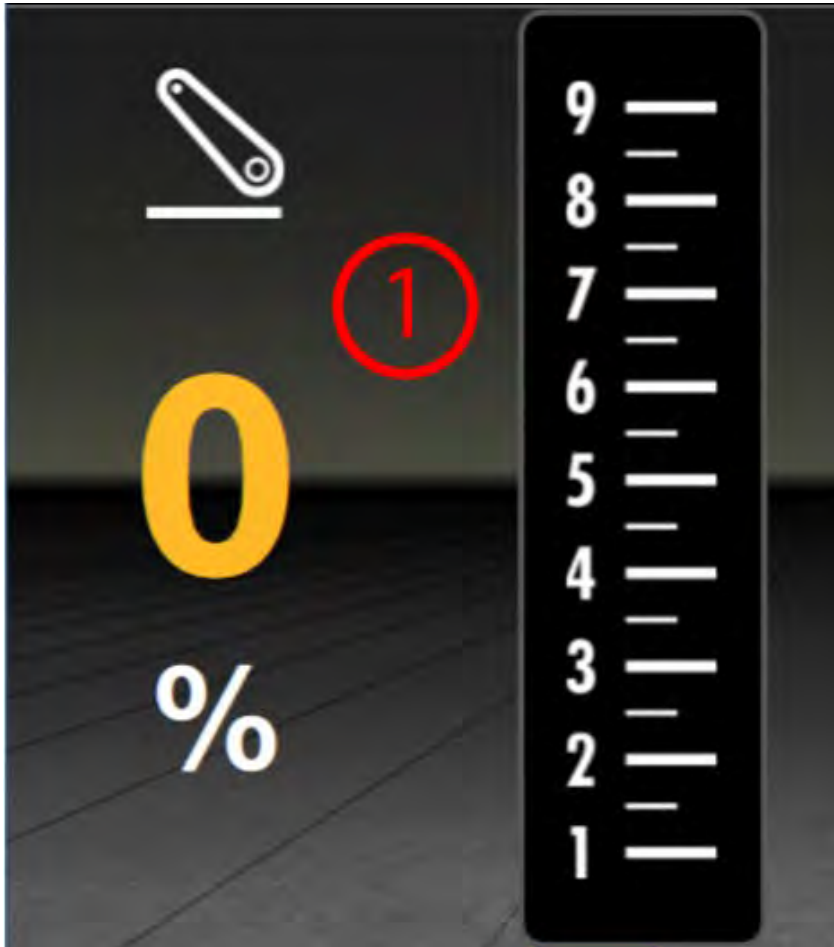
1. Current front linkage position. Also shown on the scale.
2. Indicates whether single acting or double acting mode is enabled.

Single acting	Double acting



[ Draft]

NT03VUI-720 - Front linkage current position info screen



Current front linkage position. Also shown on the scale.

[ Draft]

NT03VUI-721 - Single acting/double acting info screen



Indicates whether single acting or double acting mode is enabled.

Single acting	Double acting
	

[ Draft]

8.12 Steering settings



1. QuickSteer setting for front steering wheel. Bigger value means faster steering.
2. QuickSteer setting for rear steering wheel. Bigger value means faster steering.

[👍 Reviewed]

NT03VUI-724 - QuickSteer front setting



QuickSteer setting for front steering wheel. Bigger value means faster steering.

[👍 Reviewed]

NT03VUI-725 - QuickSteer rear setting



QuickSteer setting for rear steering wheel. Bigger value means faster steering. [🔍 Reviewed]

8.13 Suspension settings

NT03VUI-726 - Suspension settings page



1. Front axle suspension ON/OFF
2. Cabin suspension stiffness (for S-Series)

[🔍 Reviewed]

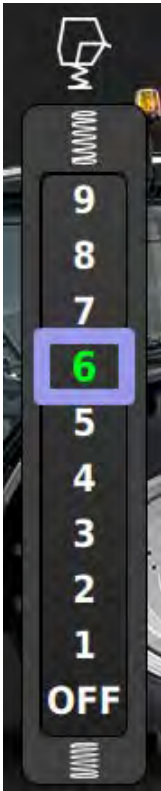
NT03VUI-727 - Front axle suspension setting



Front axle suspension ON/OFF

[👤 Reviewed]

NT03VUI-728 - Cabin suspension setting



Set cabin suspension OFF or stiffness 1-9.

[👤 Reviewed]

8.14 Front loader

NT03VUI-729 - Front loader settings page



1. Softdrive ON/OFF switch
2. Bucket release switch

A timer starts to count down from 60s when bucket is unlocked. The bucket is locked automatically after 60s or if operator leaves this page.



This setting is disabled when tractor speed is over 5 km/h

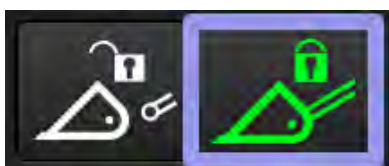
[ Reviewed]

NT03VUI-730 - Softdrive setting



Set Softdrive ON/OFF [ Reviewed]

NT03VUI-731 - Bucket release



Bucket release switch.

A timer starts to count down from 60s when bucket is unlocked. The bucket is locked automatically after 60s or if operator leaves this page.



This setting is disabled when tractor speed is over 5 km/h

[🔍 Reviewed]

8.15 Transmission

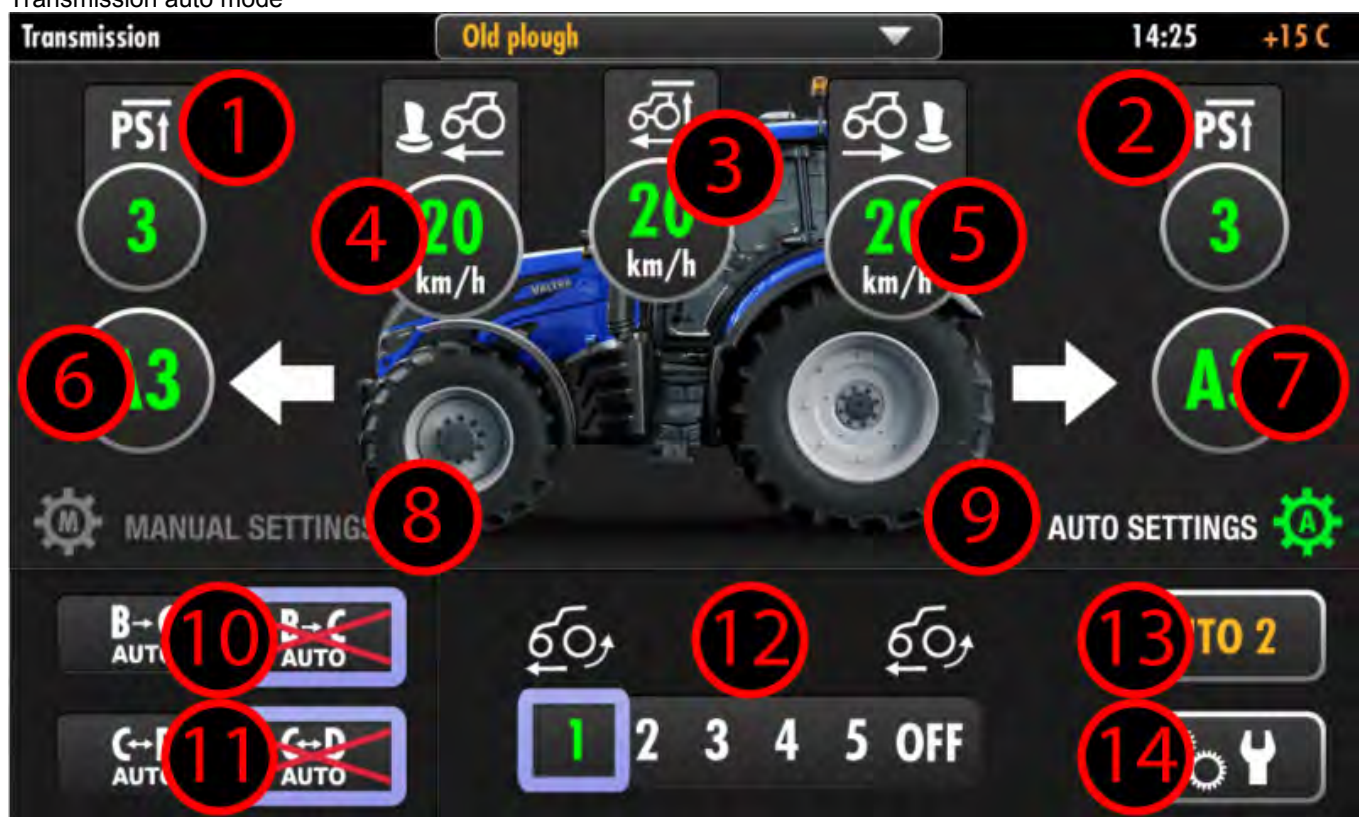
8.15.1 Transmission settings - Versu

NT03VUI-629 - Transmission settings page - Versu

Versu

Transmission settings page for Versu is divided in two for manual and auto driving modes. When manual driving mode is selected the page displays all settings that are in effect when driving with manual mode and when auto mode is selected all relevant settings for auto mode are displayed. The page contents are changed based on actual driving mode, but the user can also change the view from the screen.

Transmission auto mode



1. Max PS gear for forward direction
2. Max PS gear for reverse direction
3. Set maximum speed
4. Preprogram forward speed. In effect when lever mode is enabled
5. Preprogram reverse speed. In effect when lever mode is enabled
6. Preprogram forward PS gear + area
7. Preprogram reverse PS gear + area
8. Change to manual mode settings. Icon is green when mode is actually enabled from armrest.

9. Change to auto mode settings. Icons is green when auto mode is actually enabled
10. Set B -> C automatics ON/OFF
11. Set C <-> D automatics ON/OFF
12. ASR setting. AUTO1 has to be selected.
13. Set PS transmission mode popup. AUTO 1 or AUTO 2 and AUTO 2 shift limits
14. Other transmission settings popup

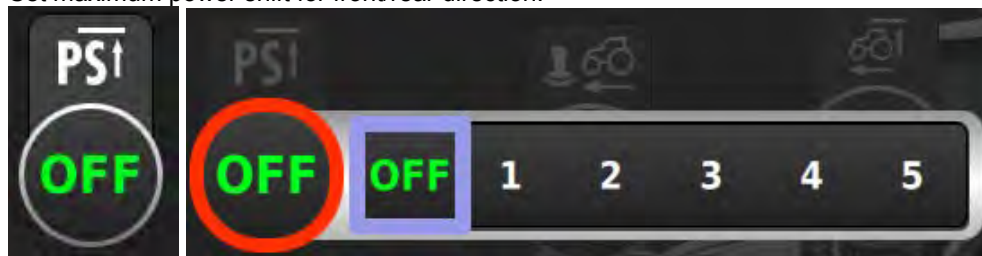
Transmission manual mode



Only settings applicable in manual mode are displayed. [🔍 Reviewed]

NT03VUI-631 - Maximum PS gear setting

Set maximum power shift for front/rear direction.



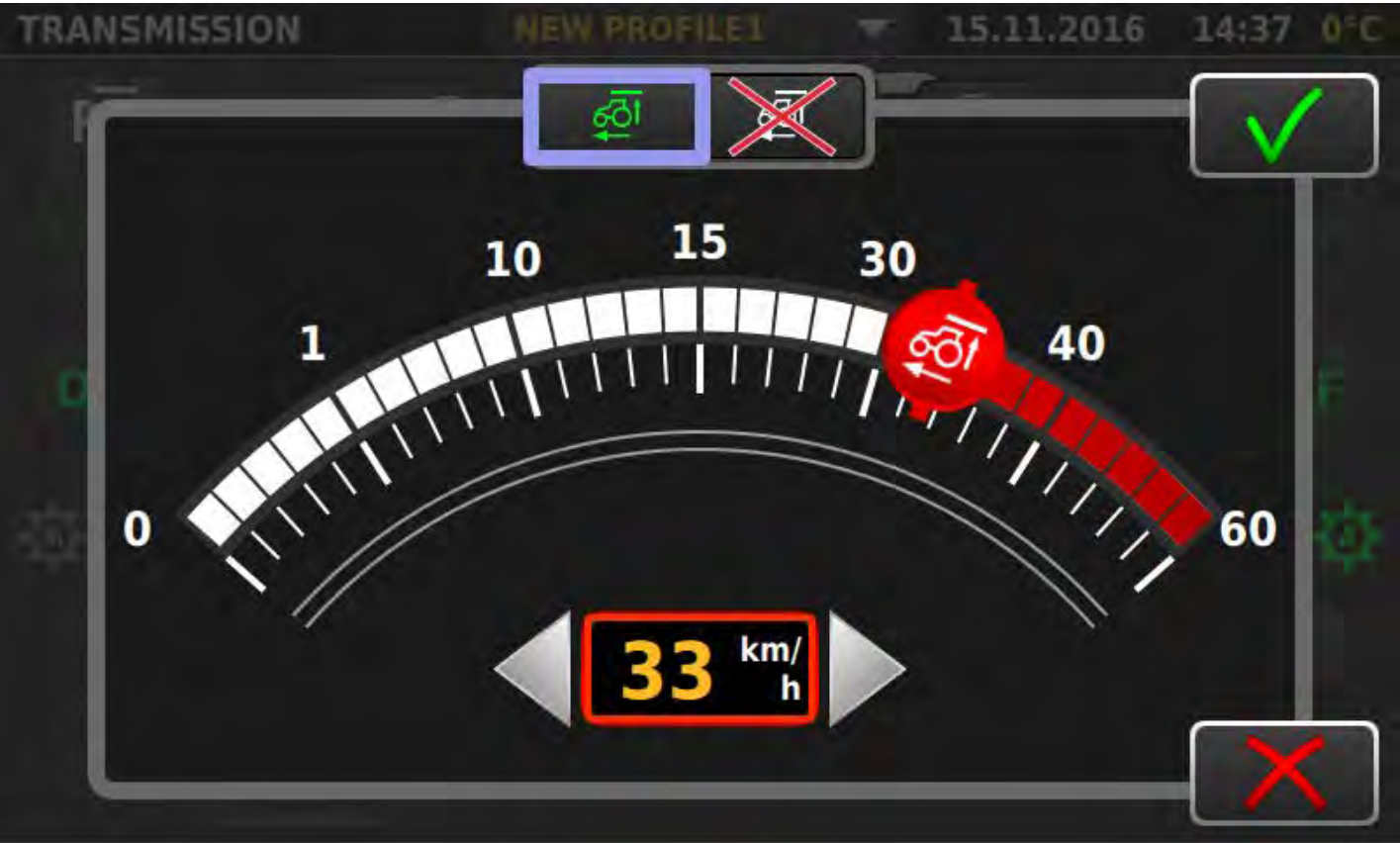
[🔍 Reviewed]

NT03VUI-632 - Maximum speed setting

Set tractor's maximum speed.



Open popup to set tractor's maximum speed



Set maximum speed ON+VALUE / OFF

[👍 Reviewed]

NT03VUI-633 - Preprogram forward/reverse speed setting

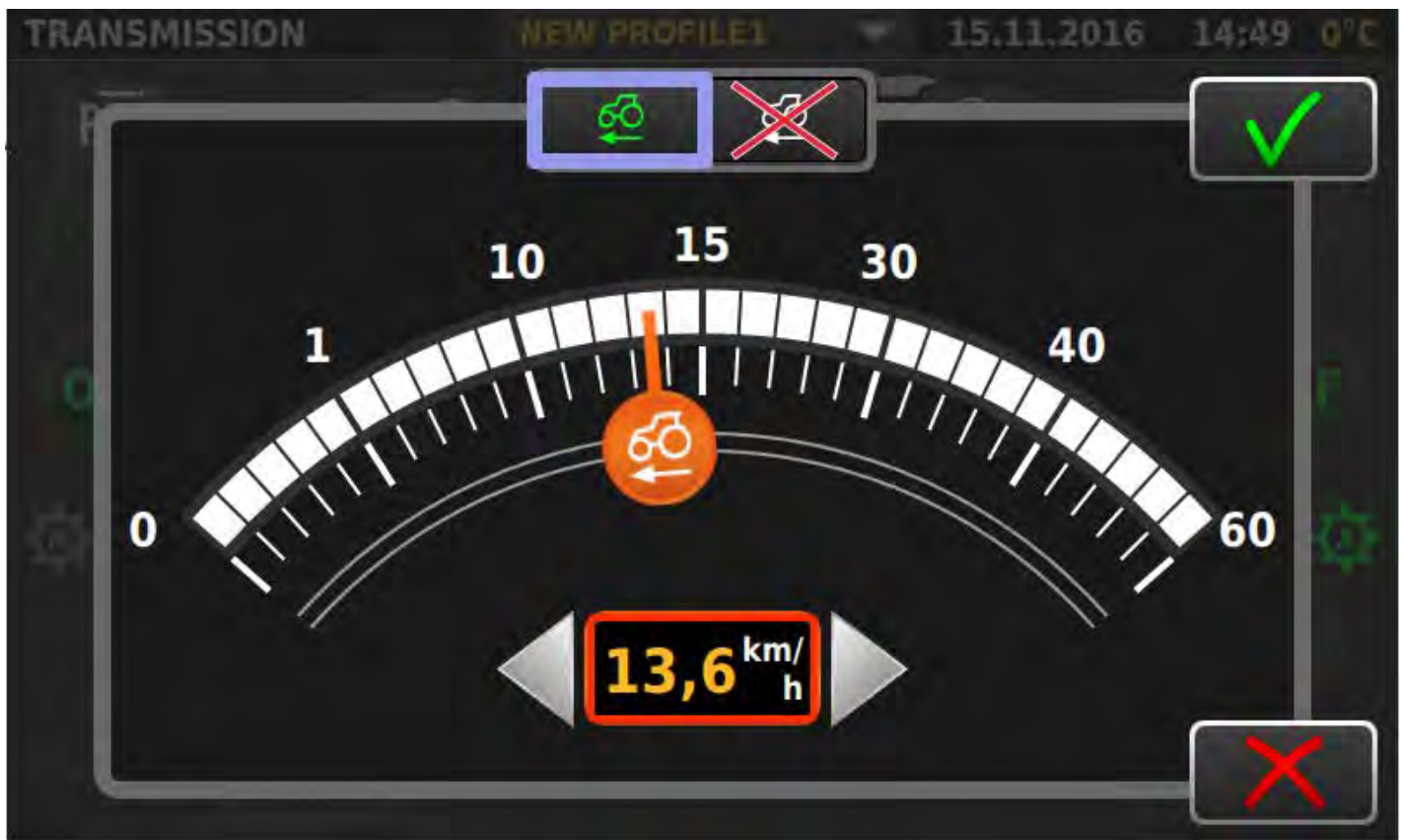
Preprogram speed for forward/reverse direction. Only in effect when lever mode is enabled.



Preprogram forward speed



Preprogram reverse speed

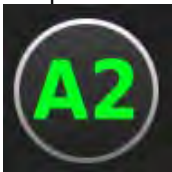


Preprogram speed / turn preprogrammed speed off

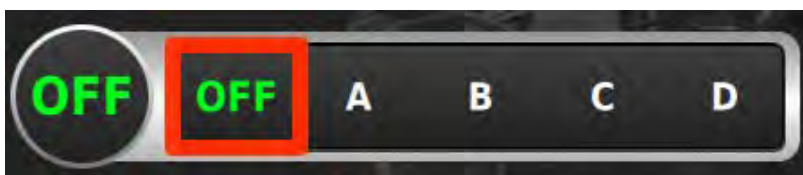
[🔍 Reviewed]

NT03VUI-634 - Preprogram PS gear + area setting

It is possible to preprogram PS gear + area separately for both forward and reverse directions.



Set area + PS gear



PS gear selection is not visible in OFF state

[🔍 Reviewed]

NT03VUI-635 - Range gear B->C automatics setting

Set B -> C automatics ON/OFF



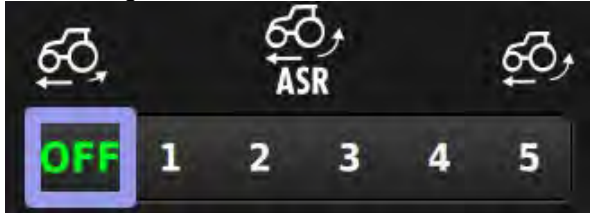
NT03VUI-636 - Range gear C <-> D automatics setting

Set C <-> D automatics ON/OFF



NT03VUI-637 - ASR setting - Versu

ASR setting OFF or 1-5. AUTO1 transmission mode has to be selected for this setting to be in effect.



8.15.2 AUTO mode setting popup

NT03VUI-638 - PS transmission AUTO mode setting



Open a popup to set PS transmission mode.



AUTO 1 or AUTO 2 mode and auto shift RPM values for AUTO 2 mode.

Turtle = shift down value.

Bunny = shift up value. [Reviewed]

8.15.3 Transmission settings - Direct

NT03VUI-630 - Transmission settings page - Direct

Direct

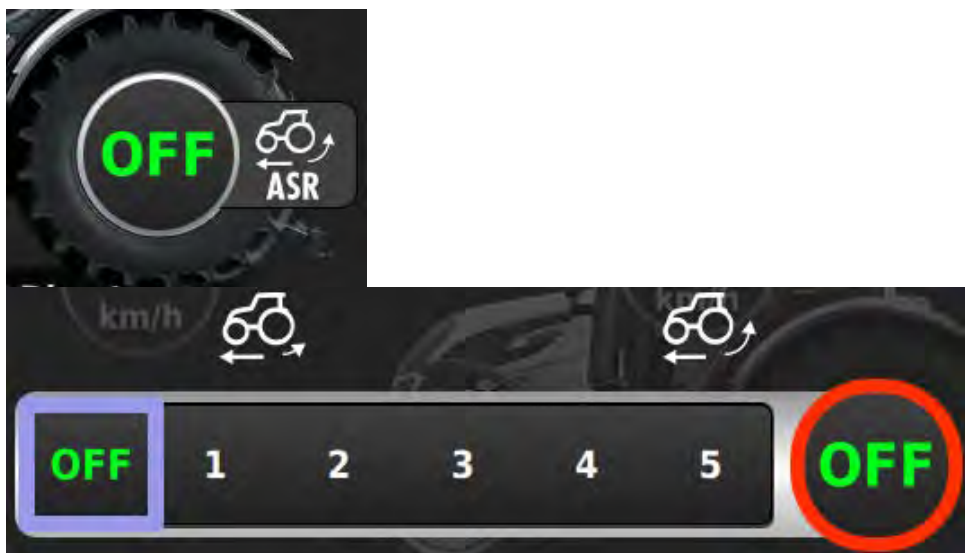


1. Preprogram forward speed. In effect when lever mode is enabled
2. Preprogram reverse speed. In effect when lever mode is enabled
3. Set maximum speed
4. ASR setting
5. Set C <-> D automatics ON/OFF. In effect in Auto mode
6. Transmission DROOP setting
7. Other Transmission settings popup

[🔍 Reviewed]

NT03VUI-639 - ASR setting - Direct

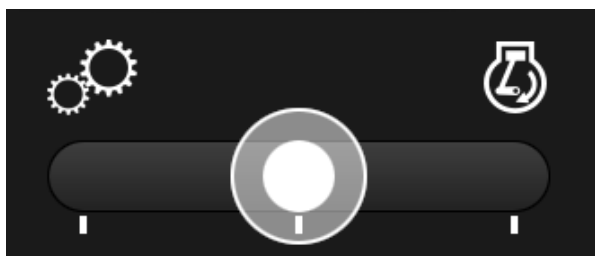
ASR setting OFF or 1-5.



[👤 Reviewed]

NT03VUI-640 - Transmission DROOP setting

Transmission DROOP setting - 5 steps.



[👤 Reviewed]

8.15.4 Transmission settings popup

NT03VUI-641 - Transmission settings popup - change of direction tab

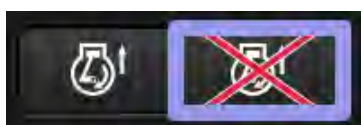
Change of direction settings tab



1. Launch assistant ON/OFF. When enabled engine rpm is raised to 1000+ when changing driving direction. For VN17 Versu.
2. 4wd shuttle engage delay
3. Shuttle engage aggressiveness

[👤 Reviewed]

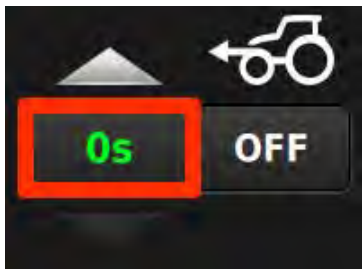
NT03VUI-642 - Launch assistant / SuperStart setting



Launch assistant ON/OFF. [👤 Reviewed]

NT03VUI-643 - 4WD shuttle engage delay setting

Four wheel drive shuttle engage delay setting.



Time 0-60s / OFF [🔍 Reviewed]

NT03VUI-644 - Shuttle engage aggressiveness setting

Shuttle engage aggressiveness setting 1-5.



[🔍 Reviewed]

Rear wheel radius tab

NT03VUI-645 - Rear wheel radius setting



[🔍 Reviewed]

NT03VUI-646 - Transmission settings popup - clutch tab

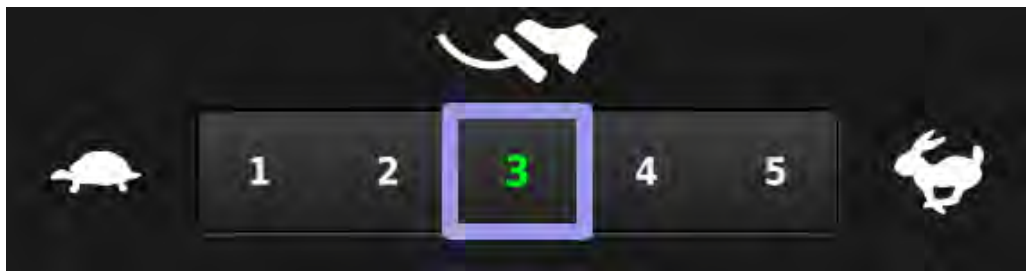
Clutch settings tab



1. Clutch pedal curve setting. For Versu only.
2. Versu: AutoTraction setting
Direct: Turbine clutch setting

[👤 Reviewed]

NT03VUI-647 - Clutch pedal curve setting



Clutch pedal aggressiveness 1-5

[👤 Reviewed]

NT03VUI-648 - AutoTraction setting



AutoTraction ON/OFF

[👤 Reviewed]

NT03VUI-649 - Turbine clutch setting



Turbine clutch ON/OFF [🔍 Reviewed]

8.15.5 Transmission info screen

NT03VUI-650 - Transmission info screen

AUTO MODE



1. Preprogrammed forward speed/gear. Speed is visible if lever drive mode is active.
2. Preprogrammed reverse speed/gear. Speed is visible if lever drive mode is active.
3. AUTO/MANUAL driving mode indicator
4. Shuttle lever status (N/P/Active standstill + direction arrows)
5. Range gear, power shift gear and creeper state
6. MAX PS gear limiter indicator and max PS gear for selected driving direction.
7. Current speed
8. MAX speed limiter indicator
9. Speed set point for lever. Visible if lever is active.
10. Cruise speed. Icon is green if cruise is active.
11. CVT = Turbine clutch ON/OFF
PS = autotraction ON/OFF
12. Tractor wheel slip percentage
13. ASR (anti-slip regulation) ON/OFF/ACTIVE.
ON = VISIBLE
OFF = INVISIBLE
ACTIVE = BLINKING
14. B to C range gear auto setting enabled.
15. C <-> D range gear auto setting enabled.

16. PS transmission AUTO 2 shift mode enabled.

MANUAL MODE



Only settings enabled in MANUAL mode are displayed. [🔍 Reviewed]

NT03VUI-651 - Shuttle lever status info screen

Shuttle lever status (N/P/Active standstill + direction arrows)



Info popup is also displayed when shuttle lever status is changed.

[🔍 Reviewed]

NT03VUI-652 - Transmission mode info screen

Transmission manual or auto mode indicator.



Manual mode indicator



Auto mode indicator

Info popup is also displayed when transmission mode is changed.

[🔍 Reviewed]

NT03VUI-653 - Preprogrammed range gear + PS gear info screen



Value is shown if range gear + PS gear is preprogrammed. Forward setting is displayed in front of the tractor image and reverse setting is displayed in back of the tractor image.

[🔍 Reviewed]

NT03VUI-654 - Preprogrammed speed info screen



Value is shown if speed is preprogrammed. Forward setting is displayed in front of the tractor image and reverse setting is displayed in back of the tractor image.

[🔍 Reviewed]

NT03VUI-655 - Current range gear + PS gear info screen

Current range gear, PS gear and creeper state.



[🔍 Reviewed]

NT03VUI-660 - Maximum PS gear info screen

If operator has set maximum PS gear it is displayed next to current PS gear. Maximum PS gear for current direction is shown.



[🔍 Reviewed]

NT03VUI-656 - Current range gear info screen



[🔍 Reviewed]

NT03VUI-657 - Current speed info screen



Number of decimals displayed depends on the driving speed:

Speed (km/h)	Example
< 1	0.52 km/h
< 15	5.2 km/h
> 15	16 km/h

[🔍 Reviewed]

NT03VUI-658 - Maximum speed reached info screen

If current maximum speed is reached the following indicator is shown next to current speed:



Info popup is also displayed when maximum speed is reached.

[🔍 Reviewed]

NT03VUI-661 - Lever speed set-point info screen



Lever speed set-point is displayed when drive lever is active.

[🔍 Reviewed]

NT03VUI-662 - Speed cruise info-screen



Speed cruise icon is green if cruise is active and white if it is not active. If cruise value is not set this information is not visible.

Info popup is also shown when cruise is enabled.

[🔍 Reviewed]

NT03VUI-663 - AutoTraction info screen



Indicator is only visible when AutoTraction setting is enabled.

[👤 Reviewed]

NT03VUI-664 - Turbine clutch info screen



Indicator is only visible when Turbine clutch setting is enabled

[👤 Reviewed]

NT03VUI-665 - Tractor rear wheel slip percentage info screen



[👤 Reviewed]

NT03VUI-666 - ASR info screen



ASR (anti-slip regulation) ON/OFF/ACTIVE indicator.

ON = VISIBLE

OFF = INVISIBLE

ACTIVE = BLINKING

[👤 Reviewed]

NT03VUI-667 - B->C automatics info screen



Indicator is only visible when B to C range gear auto setting is enabled.

[👤 Reviewed]

NT03VUI-668 - C<->D automatics info screen



Indicator is only visible when C<->D range gear auto setting is enabled.

[👤 Reviewed]

NT03VUI-669 - PS transmission AUTO 2 info screen



Indicator is only visible when PS transmission AUTO 2 shift mode setting enabled.

[👤 Reviewed]

8.16 U-Pilot

NT03VUI-828 - U-Pilot settings page

It is possible to record or program U-pilot sequences or program Single actions to three different controlling devices on the armrest. These programmable buttons are shown on the Armrest page and they are highlighted in the following image. U-Pilot management popup is opened by pressing one of the highlighted buttons.



U-Pilot management popup is divided to two modes, Single action mode and Sequence mode. [👤 Reviewed]

8.16.1 Single Actions management

NT03VUI-829 - U-Pilot single actions management



1. Selected controlling device

- 2. Change between Single Action / Sequence modes
- 3. Add new Single action

There are two types of Single actions. The type of Single Action determines how the Action behaves when the allocated controlling device is pressed.

Toggle	Continuous
	
Toggles Action between ON/OFF	Plays action as long as controlling device is pressed

Single actions are categorized to match different tractor features and the actions can be viewed by pressing the desired category button from the "Add new Single action" screen. Categories are filtered based on their type - Toggle or Continuous.

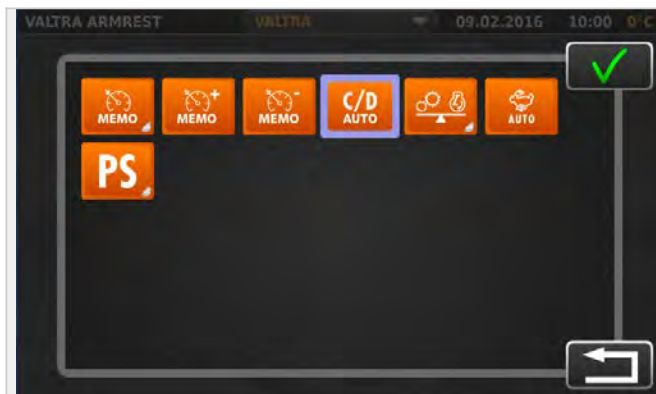
Continuous actions



Toggle actions



After selecting a category all available actions are displayed. Some actions are extended meaning they have additional parameters for user to set.



Standard Action



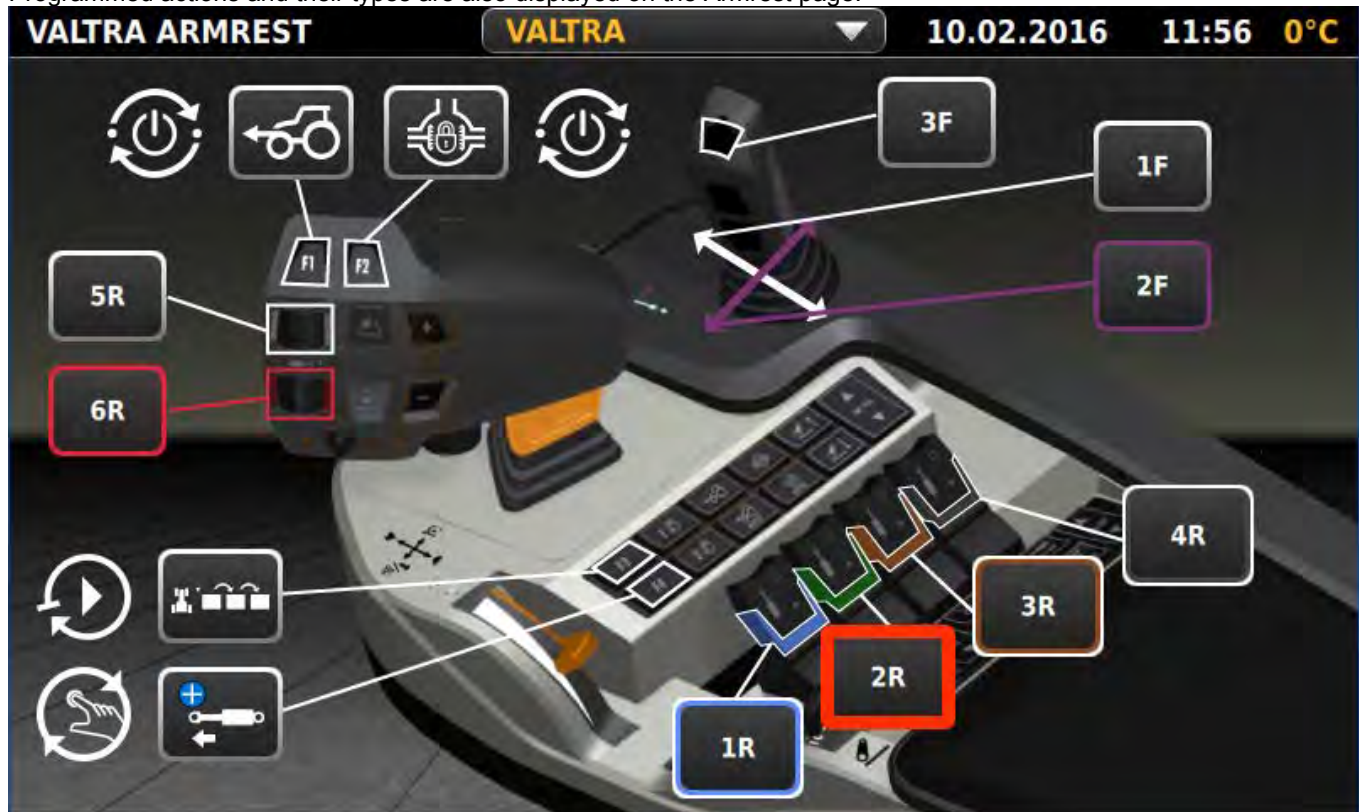
Extended Action

After selecting the desired action it is displayed on the U-Pilot popup where it is also possible to remove the action or change it to another one.



1. Change Action
2. Selected Action
3. Remove Action
4. Type of Action

Programmed actions and their types are also displayed on the Armrest page.



Reviewed]

NT03VUI-830 - U-Pilot - Change single actions



Open a popup to change single actions.



Select toggle or continuous type of single actions. [👍 Reviewed]

NT03VUI-831 - U-Pilot - Remove allocated single action



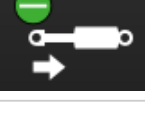
Remove allocated single action.

[👍 Reviewed]

8.16.1.1 List of Single Actions (under development)

NT03VUI-832 - List of U-Pilot single actions

Action	Description	Type	Extended
	Power supply 12V ON/OFF	Toggle	No
	QuickSteer ON/OFF	Toggle	No
	Front Loader Soft Drive ON/OFF	Toggle	No

	Engine RPM cruise ON/OFF	Toggle	Yes -RPM value
	Engine MAX RPM ON/OFF	Toggle	Yes -MAX RPM value
	Engine MIN RPM ON/OFF	Toggle	Yes -MIN RPM VALUE
	Four Wheel Drive ON/OFF	Toggle	No
	Differential Lock ON/OFF	Toggle	No
	Auto-Guide ON/OFF	Toggle	No
	Camera full screen	Toggle	No
	Speed cruise ON/OFF	Toggle	Yes -Speed value
	Range Gear C/D AUTO ON/OFF	Toggle	No
	PS AUTO ON/OFF	Toggle	No
	Front PTO ON/OFF	Toggle	No
	Rear PTO speed 540	Toggle	No
	Rear PTO speed 1000	Toggle	No
	Rear PTO speed GSPTO	Toggle	No
	Plus port flow for selected valve	Continuous	Yes -Flow % value
	Minus port flow for selected valve	Continuous	Yes -Flow % value

8.16.2 Sequence management

NT03VUI-837 - U-Pilot sequence management



1. Selected controlling device
2. Change between Single Action / Sequence modes
3. Add new Action to sequence
4. Start recording new sequence

Adding new Actions to a sequence is done in the same way as Single actions are programmed. The desired action category is selected first and after that the desired Action from the list of available actions. Whereas Single Actions have two types of actions separating how the action behaves when the allocated controlling device is pressed, Sequence actions are all the same. When the allocated controlling device is pressed the sequence is played once from start to finish, regardless of the number of Actions in the sequence.

Each Action in a sequence can be deleted or changed to another one individually. Editing menu is opened by tapping on the desired action. After programming more than one Action to a sequence it is possible to rearrange the order of actions or to specify the distance/time between actions. Changing the order of actions is done by drag-and-drop.

