



CR7/CR12 QUICK START GUIDE

116-8000-017 REV. B2

User manual





DISCLAIMER

WARNING!

- The safety instructions contained in the manuals of the tractor or implements must be complied with at all times.
- Always switch off the tractor before installing or repairing hydraulic and electrical components of the SBGuidance system.
- It is strictly prohibited to use the CR7/CR12 system on public roads.
- It is strictly prohibited to leave a driving vehicle unattended when the CR7/CR12 system is switched on. The driver is always responsible for the direction and course of the vehicle.
- To prevent injury or fire, replace defective fuses only with fuses of the same type and amperage.
- The SBGuidance the operating system is not able to detect and avoid obstacles. If there is an obstacle in your path, you will always need to take action for it to be avoided.
- Only allow authorized/qualified persons to operate the system. Authorized/qualified persons are defined as:
 persons who have read and understood the manual, have been given instructions by a product specialist, and
 who are both physically and mentally fit and able to operate the system.
- The system contains moving parts! Make sure the immediate environment is clear of people before operating the system.
- In case of system failure or breakdown switch of the tractor and disconnect the electrical power source to avoid further damage. Contact your dealer for further instructions on how to repair your system.
- Always wear personal protective equipment when operating/adjusting/repairing the system outside of the tractor cab.
- In order to prevent power surges from occurring, always start the machine first, before initiating the SBGuidance control system.

PAY ATTENTION!

- Only touch the touch-screen with your finger or by using a special touch-screen stylus/pen. Operating the touch-screen with sharp objects may cause permanent damage to the screen.
- Always consult your supplier as to which products are best suited first before cleaning the touch-screen with chemicals or alcohol.
- If the terminal is not used for a long period, better remove the terminal from the tractor and store in a heated environment. This will extend the life span of the electronic components.
- To prevent theft, it is better to not let the terminal and GPS-antenna unattended in the tractor on the field.



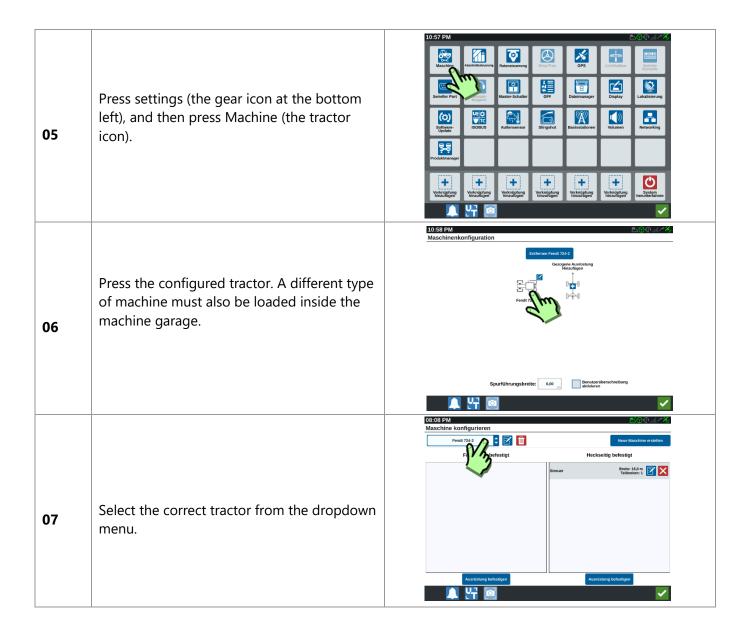
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HOW TO CHANGE BETWEEN DIFFERENT TRACTORS

#	Beschrijving	Afbeelding
01	If the tractor profile has to be changed. Open the UT with the the UT widget.	Ø
02	Press the gear icon. "Machine settings".	Empfindl. Can Can Can Can Can Can Can Ca
03	Press the bar: change profile.	Maschineneinstellungen Profil andern Profil andern Formation Maschinen- konfiguration Information Kontroller- ausrichtung
04	When you have selected the correct profile, confirm the chosen profile by pressing the checkmark. It is possible that the antenna will be restarted. The UT can be closed by pressing the green checkmark at the bottom left.	Profil auswählen Bitte wählen Sie das Profil aus, das Sie verwenden möchten. Demo Verfügbar Verfügbar Verfügbar Verfügbar

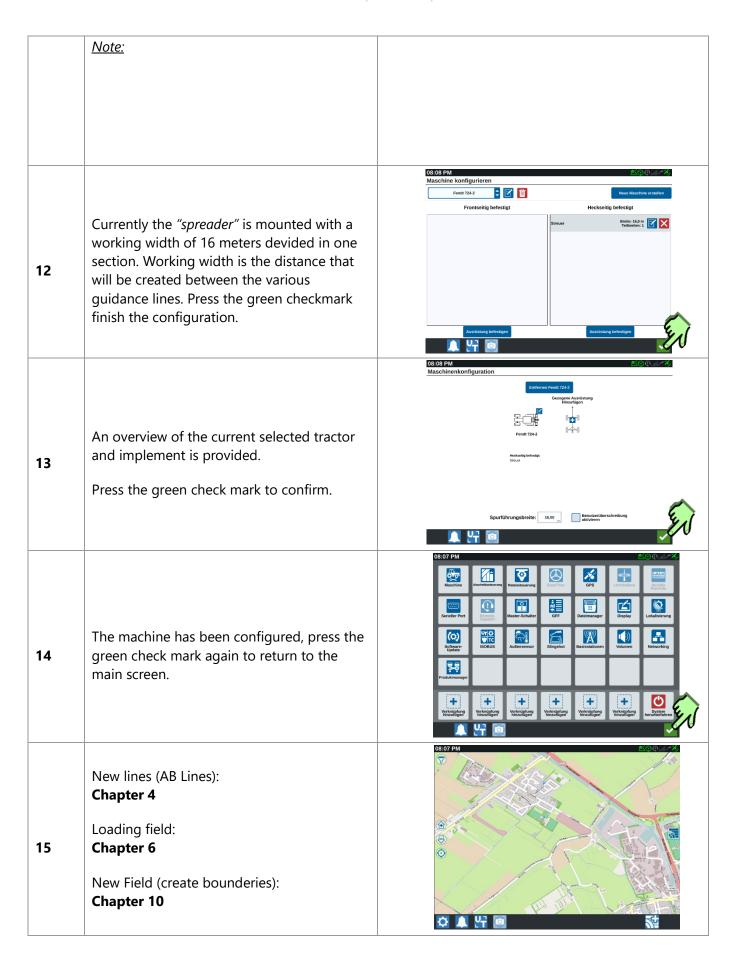




2 SELECT IMPLEMENT

#	Beschrijving	Afbeelding
08	Press settings (the gear icon at the bottom left), and then press Machine (the tractor icon).	10:57 PM Andertwesterversy Resentation of GPS Corp. Cor
09	Press the configured tractor. A different type of machine must also be loaded inside the machine garage.	10:58 PM Maschinenkonfiguration Enforce Fund 778-22 Geograe Austratung feminagen Fendt 778-22 Fendt 778-22 Spurführungsbreite: 0.00 Seminagen Benutzerüberschreibung Authleten
10	There are two options, front and rear mounted implements. An overview is provided over the current mounted implemts. To unmount a mounted machine: Press the red cross behind the machine. At the bottom of both sections is a button "mount equipment". Press it to mount the equipment on the desired side. Multiple implements can be mounted.	OB:08 PM Maschine konfigurieren Frendt 724-2 Frontseltig befestigt Heckseitig befestigt Stenuer Stenuer Ausrüstung betestigen Ausrüstung betestigen
11	After pressing the mount equipment button it is possible to switch between the already created machines. Select the machine you want and confirm with the green check mark at the bottom right. If a new machine needs to be created; press	Auswahl der zu befestigenden Ausrüstung an: Fendt 724-2 Nove Arbungerst erstellen







3 DRIVE DIRECTION

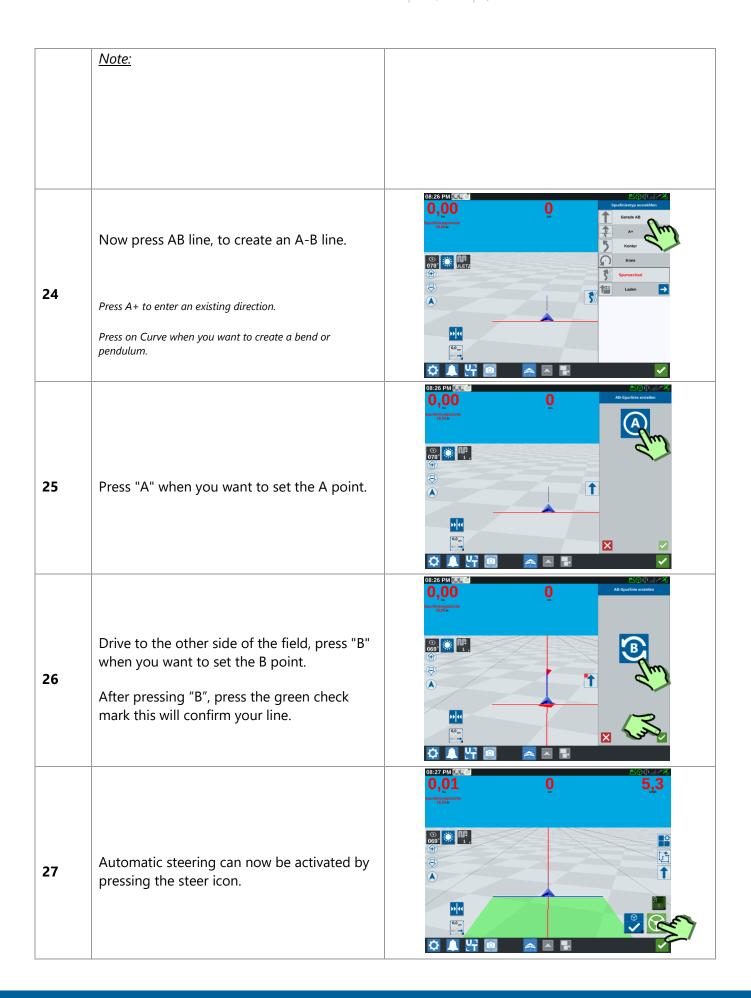
#	Beschrijving	Afbeelding
16	It is possible that the direction is not recognized correctly (forwards/backwards). You can recognize it by the white arrow that appears in the middle of the screen.	11:42 PM 0,00 1,5 1,8 1,8 1,18 1,18 1,18 1,18 1,18 1,18
17	When driving forward and the white arrow is visible (the system thinks you are driving backwards) press as you drive forward on the white arrow and it will disappear.	11:42 PM 0,00 1,5 1,8 1,8 1,8 1,18 1,18
18	The white arrow is gone, the system knows the correct direction of driving again.	11:42 PM 0,00 11,4 1,8 131 14 15 15 15 15 15 15 15 15 1
19	Note:	



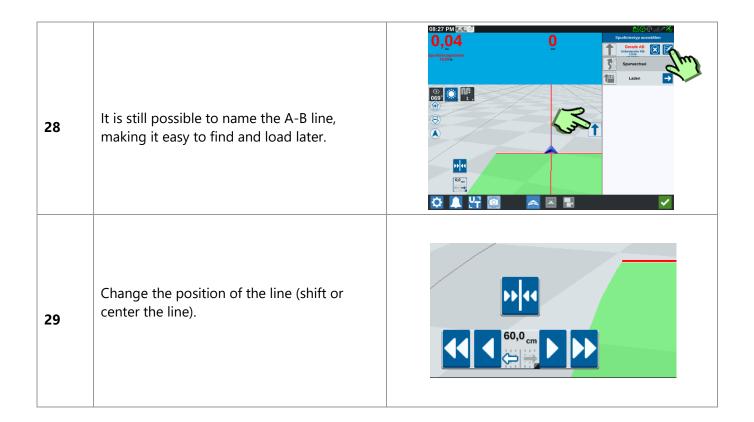
4 NEW FIELD + CREATE NEW LINE

#	Beschrijving	Afbeelding
20	Press on icon: "New field + New line". When the list of fields is open, first close it. After this the icon will appear.	
21	Enter a field name, task can also be renamed (Field name + current date and time is the default name). Press to next page.	Neuer Auftrag in neuem Feld Landwirt default Betrieb default Feld Feld 137 Auftrag einen Namen zuweisen Streuen
22	An overview of the tractor and attached machine. Press to next page. If the machine configuration is not correct; Reference back to Chapter 2.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
23	Now we've created a new field. A new guidance line can now be created by pressing "lines".	OS 25 PM SCO O O O O O O O O O O O O O O O O O O









5 ADD SECOND LINE OR ADD MULTIPLE LINES

#	Beschrijving	Afbeelding
30	Open the tab "lines" (press the arrow on the right, then the tab opens). Deactivate the loaded line by pressing the X.	OS-27 PM SALE O, 04 Superficiency parameter Cost Superficiency
31	Don't worry, the line won't be deleted. By confirming, the line is deactivated and saved. Go back to "load" to use the line again.	O3:28 PM IAA O O O O O O O O O O O O O O O O O O
32	Now create desired line. (AB, A+, Curve).	OS:26 PM Land. O, OO Control AB A A Kontar Kontar Kontar Kontar Laden
33	Note:	



6 LOAD FIELD

#	Beschrijving	Afbeelding
34	Simply press an existing field on the map in the background. Or Open via the overview of all fields and press the desired field.	08:07 PM (B) (C) (C) (C) (C) (C) (C) (C)
35	Tip! By pressing the filter, the order of the fields can be changed. (distance= the closest field will be the first in the list).	O9-33 PM Filter for Felder and Aubtisge CC default default default default Distance default Feld aurorablem Feld aur
36	Now you will see an overview of the existing tasks in the desired field. • Create a new task in the existing field; press the right arrow. • Continue in existing task; then press the open task.	10:04 PM Or ber great sort advantage of the sort of t
37	When a new task is chosen, you can also rename that task. Press the indicated arrow.	Neuer Auftrag in De boer grote sloot Auftrag einen Namen zuweisen Hischen 22-30-20



	Note:	
38	An overview of the tractor and the attached implement is provided. • Is the implement correct? Then move on. • Is the implent wrong? Then go back to machine garage. (Chapter 2).	Zuweisung Produkt zu Gerät Landial Streuer: Abdeckung 1
39	Task is loaded, we are now in the field. A guidance line can now be created, press the "line" icon to continue.	10:06 PM () O, OO O O O O Trustrationarism O O O O O O O O O O O O O O O O O O O
40	Press "load" if you want to use previously created lines. Create new line » chapter 4 step 24.	08:26 PM S.S. C O , DO Specialization of the second of t
41	Load line (Field boundary, AB, A+, Curve).	OB::35 PM 5.75.C O 1 1 4



Select the region you want to base your guidance lines off.

7 SWITCHING BETWEEN THE LINES

#	Beschrijving	Afbeelding
43	To switch between existing operation lines (e.g. from edge line to headland line) Press the line icon. And then on "load".	08:53 PM 65.6 0,61 1-portification agreements 10.00 in the state of
44	Select the guidance line.	OS:53 PM Fund. Septimized activement Septimized activement Most best op menotion A Note best
45	The desired line will be loaded.	0,65 0,65 0,65 0,65 0,65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Note:	



8 SHIFT THE POSITION OF THE LINE

#	Beschrijving	Afbeelding
46	 Two ways to change the line position. Shift with a set distance. Left or right (example 10cm). Line centering: guidance line will placed directly underneath the machine. 	0,61 puritinus agricultus 11,000 11
47	If you want to change the distance the line needs to be shifted (example from 10cm to 20cm), press and hold the icon.	0,61 2,7 0 sputtaequateria 11,000
48	Now set the desired values and then confirm with the green check mark.	0,61 Papartitions repaired to the control of the c
49	The center of the widget displays the distance the guidance line has been shifted from the orginal line.	OS.55 PM S.C. O,65 Sunthasparame



9 NEW FIELD: RECORD FIELD BOUNDARY

#	Beschrijving	Afbeelding
50	Press "fields".	OS:17 AM OS:07
51	Press "+ ".	Ped assembline Arbeitgale fedgersze (1,223 km Arbeitgale fedgersze (1,223 km De beer gross stori ch (2,23 km Ch (2,
52	Give the field a name and confirm this.	O3517 AM Feld accordable Archiving in feld grane Accordance for the control of
53	Press "record field boundary".	O3:18 AM Feld assembly a find grown and Arbeitspalin find



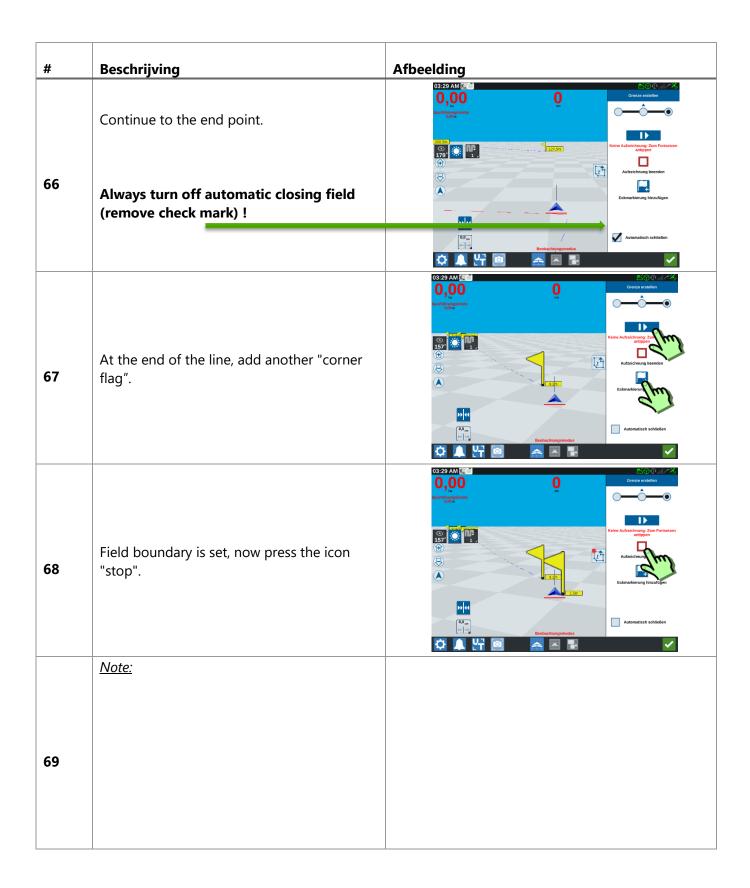
10 RECORD FIELD BOUNDERY

#	Beschrijving	Afbeelding
54	Choose on which side of the machine the field boundary should be recorded. The size of the implement is used as guidance width. Is the right implement mounted? See chapter 2.	Greetze erstellen Greetze erstellen Aufzeichnung: Zur Unterbrechung aningen Aufzeichnung beenden
	Also see the example of a field chapter 16.	Automatisch schließen Sechachtungsmodus
55	Select the side on which the field boundary should be recorded. Drive to the first corner of the field and press "add corner flag".	OS:23 AM Creaze eration Oranze eration Autreichnung: Zur Unterbrechung antippen Autreichnung beenden Eckmarkieru Autreichnung beenden
56	Now drive to the other side of the field until the end of the boundary. Without pressing anything!	OS-23 AM Corace existing Granze existing Auterichnany: Zer Unterderehang antigen Auterichnany beenden Eckmarklerung hinodogen Corace existing Auterichnany: Zer Unterderehang antigen Auterichnang beenden Eckmarklerung hinodogen
57	At the end press "add corner flag".	O3:24 AM Create estation Greate estation Authorithments 2 or Underhorbung antippen Authorithments 2 or Underhorbung antippen Eckmarkderung Automatisch schließen



#	Beschrijving	Afbeelding
58	Turn the tractor in the other direction.	O3:25 AM Concrete resistion Overcor resistion Autracichnung zur Univerbrechung artispion Autracichnung beneden Echmarkse vergrigen Autracichnung schließen
59	Now press "Add corner flag" again. There's a double flag in the corner now. By using 2 corners flags for each corner of the field the direction of the boundary will be 100% accurate. Each start and end point of an workline needs a flag.	Grenize establish Grenize establish Autzeichnung: Zur Unterbrechung and john Autzeichnung: Zur Unterbrechung and john Autzeichnung benden Eckmanklerung bissusfügen Autzeichnung benden Eckmanklerung bissusfügen
60	Do this accurately along the entire field.	Orenze entellen Aufzeichnung Zer Unterberbung Aufzeichnung beenden Eckmarken und Stehen Stehen Eckmarken und Stehen S
61	Note:	

62	When a side of a field contains a curve: Start by pressing "Add corner flag". This is the beginning of the line.	Affbeelding 03:25 AM Coreas estaller Autreichnung Zur Unterbrechung seingen Autreichnung beenden Edmunklarin Brobachtungbmodus
63	Now press "pause". If the recoding is paused nothing will be recorded but when the recorded is restarted a straight line will be drawn between the point where the recording was paused and where it was resumed.	OS:25 AM Create exchellen Keine Aufseichnung zemang zemangpen Autzeichnung benaden Eckmarkierung kincufügen Autzenstisch schließen
64	Start the recording of the curve.	O3:28 AM Coenze estables Coenze estables Coenze estables Autracidorum para antiques Autracidorum para para antiques Echmanisch schließen Becobachlungsnodus
65	Pause the recording of the curve to create another straight line.	O3:29 AM Control or enhanced and the control of the



#	Danahaitain a	A fine a latine se
70	Confirm the end of the recording.	Afbeelding 03:30 AM Circle of tables Circle of tables Circle of tables Autrecichang beenden Autrecichang beenden Autrecichang breadurgen Autrecichang breadurgen Autrecichang breadurgen Autrecichang breadurgen
71	With the green check mark you confirm the created field and name of the field.	O3:30 AM Contrat problem Great problem Feld 338 V0 Diese neue Greatz Bischen Stadban Bischenhangsmodus Abschrint hinzdigen Abschrint hinzdigen
72	Continue to pre-planning. Pre-planning enables you to adjust the field boundary.	Betriebsplanung Direkt mit Verziglanung forfahren? Falt 138 VO Beelaac Mangarondus
73	<u>Note</u>	

11 PRE-PLANNING OPERATION

#	Beschrijving	Afbeelding
74	You will be automatically redirected to the next page when the field boundary is created When a Shapefile is imported, press the imported field and then "pre-planning".	O3:18 AM A Planting of the American Am
75	If the pre-planning button is blue it has not yet been done. When pre-planning is green it has already been performed. Pre-planning can be adjusted but it might cause your "Operation plans" to be deleted.	Betridosplanung Fett: Fetd. 118. VB Vorabplanung Betriebsplane Vorabplanung Betriebsplane
76	Press next page.	OS:38 AM File Create autoribles Feld 118. VB Planengimodus
77	Optionally, corners can be moved, removed or added here. We have already indicated the corners in the field boundary, so we now don't have to do anything on this page. You can press through to the next page.	D Calcard Standard S



#	Beschrijving	Afbeelding
78	Select which lines should be made straight or stay contour lines. Lines D, H and J will be made straight and F and B remain contour lines.	O3:38 AM Table Basilinin bourbetter B Cerade Corade Kontur Corade Kontur Corade Kontur Corade Kontur Corade Kontur
79	Note:	

12 OPERATIONS

#	Beschrijving	Afbeelding
80	You will now be automatically redirected to the operation when pre-planning is complete. When a new operation plan needs to be created, press the "right arrow".	O4:33 PM Fed. 318: V6 Fed. 3
81	Now press "operation planning".	Feldmanagement Feld 118 VB Feldgrenze Bebiebsplanang Neuer Auftrag Abbrechen
82	Now press "operation planning".	Detriclesplanung Feder Feld 118 VB Vorabglanung Berrisbaptur Thomas Planungsmodus
83	Enter a name for the field and the desired working width.	O5:18 PM Betrietspitan residien Name Zuiebein 2020 Spurtreite 2,000 Setup Fahrpasse Financigenadus



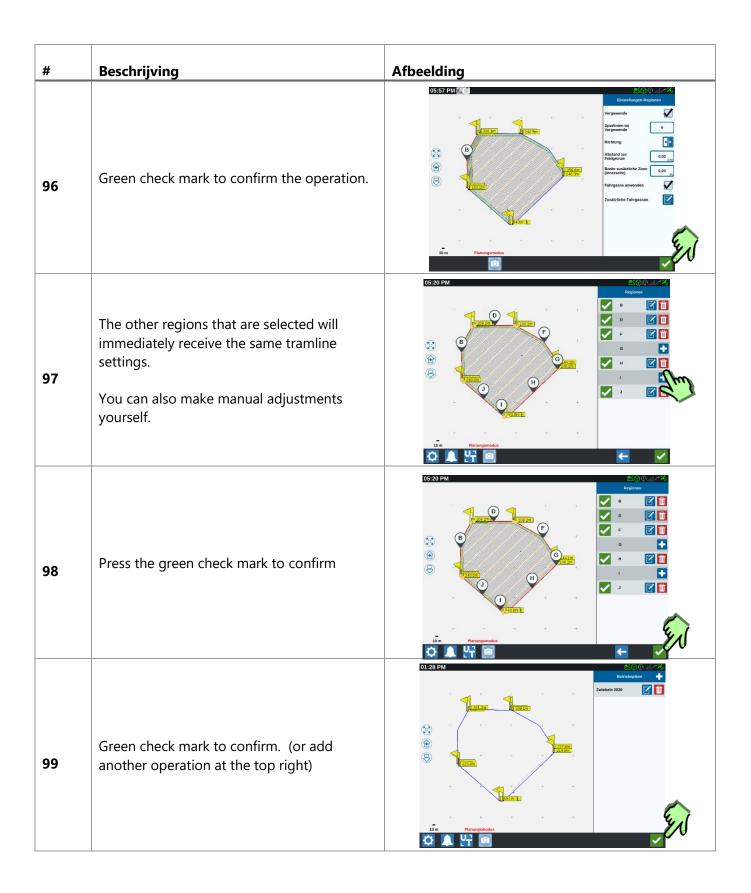
#	Beschrijving	Afbeelding
84	Press tramline configuration to add and configure the tramlines.	Setup Fahrgasse Name Name Setup Fahrgasse Name Name Setup Fahrgasse Name Name Setup Fahrgasse 16 Name Setup Fahrgasse Name Name Name Setup Fahrgasse Name Name
85	S1: Number of lines from field boundary to first tramline. W1: More or less space at the tramline, on the left W2: More or less space at the tramline, on the right. S2: Number of lines between tramlines.	S2 S2 S2 S2 S3
86	When you have a working width of 3 meter and the additional width for the tramlines is set at 50cm on both sides (W1 and W2) the tramline will be 4 meters wide. When you start planting with a 3 meter machine, a part remains unprocessed to the left and right of the spray track.	W2
87	Press the green check mark to confirm the pattern.	Setup Fahrgasse Setup Fahrgasse Si Wi W2 Si: Anzahl spuren zwischen Fahrgassen W2: Spurbreite +/- zusätslicher Abstandt W2: Spurbreite +/- zusätslicher Abstandt Do Si: Anzahl spuren zwischen Fahrgassen Do Medisbreits Feldspritze: 36,000 m Planungsmotius

#	Beschrijving	Afbeelding
88	Press "Create".	OS:18 PM Oet/deloplan erstellen Name Zwiebeln 2020 Spurbreite Z.000 Scrup Fahryassz
89	The region that is selected will automatically be your main line. The set pattern is filled in over the entire field.	O8:50 PM OR:50 PM Regions R
90	A negative distance from the field boundary can be added when the pattern has to be started to the left or right of the line.	08:51 PM DEMO Region Settings Headland Swaft Count Office to Flaid Strondary Apply Transitions Additional Transitions Image: Count Transitions Additional Transitions Done Done Demo Dem
91	The second region that is selected will automatically be indicated as the headland.	OS:51 PM Princing Mode Princing Mode

13 EDIT REGIONS

#	Beschrijving	Afbeelding
92	Adjustments can also be made to the other regions, press the adjust icon.	OS:51 PM Regions A Regions A PARTICIPATION O PRINCIPATION PRINCIPATION O PRINCIPATION PR
93	Direction: The headlands can be made on the other side of the region.	Einstellungen Regionen Vorgevende Spurtinen im Vorgevende Spurtinen im Vorgevende Bichtung Abstand zur Peldignesse answenden Zustärliche Zane (Instraction Zustärliche Falvygassen Zustärliche Falvygassen
94	Distance to field boundary: extra distance between the first guidance line and the field boundary.	OS522 PM Cinctiflurgers Regiones Vorgewende Spuranzahl Parryassa anverden Fadryassa anverden Zusätzliche Fatryassan Till on Financepurodus
95	Extra width (zone): Add extra distance to the inside of the line.	OS:57 PM S Entifiliagen Regiones Vorgrevende Spurinien in Spurinien







14 NEW TASK + START OPERATION

#	Beschrijving	Afbeelding
100	Now press "New job"	Feldmanagement Feld 318 VB Fridgmana Betriebuglanung Neuer Auftrag Abbrechen
101	When an operation needs to be loaded: press the bar under "Select operation", the desired operation can be chosen.	O5-24 PM Neuer Auftrag in Feld 118 VB Auftrag einen Namen zuweisen Zwiebein sahrn Zwiebein 2020 Spurführungsbreite: 2,00 m
102	The main line is loaded immediately at startup. To switch between lines, press the "Edit" button.	0,03 200 1 2 4,2 4,2
103	Here it is possible to select another line.	05:23 PM Retrieburgioren A 0,19 ha B 270,2434 * 0,13 ha C 0,20 ha 46,365 * 7,88 ha G 7,22 * 0,18 ha Feld_318,19 Spurbreite 2,000 Feld_318,19 Feld_318,19 Feld_318,19



15 TASK + RELOAD OPERATION

#	Beschrijving	Afbeelding
104	Press the desired field.	O 2:09 PM III The state of the
105	Press one of the tasks you want to load or the operation you want.	CZCOS PM (%) Ped (3.11) V0 General Jan V0 Fed (3.11) V0 General Jan V0 Fed (3.11) V0
106	The operation can be resumed.	02.11 PM (C)
107	Note:	



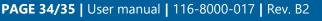
16 EXAMPLE OF BUIDING A BOUNDERY



- 1. This line (A) becomes a straight line: Create a corner point at point 1. Continue to do nothing.
- Drive to point 2. This is the end of the line. Press again on corner point. There will be a straight line created.
- 3. Then turn the tractor parallel to line b. Press on corner at the starting point.
- 4. This too is a straight line. Point 3 is corner, at the and (4) press corner again.
- 5. Line C is different: this is a line like this: straight, curve, straight. To record this as always. Press corner point at the start of line (5). Then immediately press pause (6).
- when pause is pressed, no line will be recorded. Recording 'pauses' until the point where we are pressed again to record. A straight line is then created between those points. Drive the part without recording (with pause active) to the start of the curve.
- 7. press 'record' here (the pause button changes into the record button.
- At the end of the curve, 'pause' is pressed again. The curve is in it, the last part must be straight
 again. So pause is active.
- At the end of the line you press again on record: The part from the end of the curve to here is created as a straight line.
- 10. Press directly on add vertex. This is the end of the line.
- 11. Add corner point.
- 12. Add corner point.
- 13. Field boundary recording is complete. Press'stop recording'.
- 14. Confirmed recording and proceed with pre-planning.



- 11





RAVEN