# SMAJAYU (SHENZHEN) CO., LTD

Precision User manual



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# 1. Introduction

## 1.1 Purpose of preparation

The purpose of writing this operation manual is to fully describe the functions and operating environment of the software, so that users can understand the scope and method of use of the software, and provide necessary information for software maintenance and update.

#### 1.2 Reference material

None.

#### 1.3 Terms and abbreviations

Sensitivity: equivalent to the line stability coefficient of the previous automatic driving software. It mainly adjusts the motor sensitivity. The higher the value setting, the more sensitive the motor rotation is, and the lower the value, the less sensitive it is.

Confidence degree: different values can be selected for the confidence degree, which mainly adjusts the sensitivity of the gyroscope. The smaller the set value, the higher the sensitivity. Generally, the default value is 0.01.

Automatic calibration: mainly calibrate azimuth offset.

Slope correction: real time correction of roll.

Speed limit threshold: the maximum speed allowed under automatic driving mode. If it exceeds, automatic driving will be released. The adjustment range is 0-50km / h, and the default is 20km / h.

Flow control: GNSS intelligent spray control system.

# 2. Software overview

## 2.1 Software purpose

The previous automatic driving software can be widely used in sowing, ploughing,



ditching, ridging, spraying, transplanting, land consolidation, harvesting and other operation scenarios, but it can only correspond to one operation mode. The development of this software is to integrate multiple software into one software without installing multiple software. In this way, different operations can be carried out with only one software, and operations can also be combined, For example, two different jobs are operated simultaneously with one software.

## 2.2 Software running

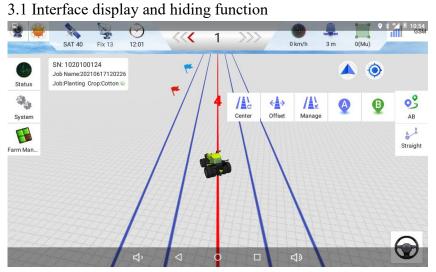
The hardware environment of the software: Android 4 or above tablet (mobile) devices, and the software environment: exlipse and Android studio environment. After the software is installed, you can directly click the corresponding icon to enter the software.

## 2.3 Software performance

①Response speed of software simple page operation (simple operation of adding, editing, deleting and viewing details), time  $\leq 1s$ ; ②Response speed of complex page operation (complex display, list, configuration and other interfaces), time  $\leq 1s$ ; ③The software runs continuously without jamming within 24 hours.



# 3、Software function introduction

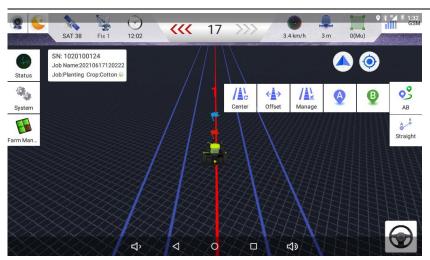


#### 3.1.1 Day night mode

Switching between day mode and night mode, the default is day mode.







#### 3.1.2 Camera

When the camera is turned on or off, it is turned off by default. Zoom in on the full screen button and the camera can be turned off at the secondary point.



#### 3.1.3 Satellite



SAT 31 Number of nearby satellites, hiding function: View star map and signal-to-noise







#### 3.1.4 Base station status and differential delay

Fix 0 Current equipment and base station connection status and differential delay.

Hide function: Click to quickly jump to the base station connection.

3.1.5 Deviation from ab line error





When automatic driving is on, the deviation error of the vehicle from the AB line is displayed in real time.

3.1.6 Real time operation speed



5.9 km/h Real time speed monitoring and hiding function when the vehicle is running:

Click to jump to the system setting and set the speed limit threshold.

3.1.7 Width of agricultural tools



<sup>3</sup>m After adding farm tools, the width of the set farm tools will be displayed.

3.1.8 Time display



Time display in the format of hours, minutes and seconds.

3.1.9 Network operators and signal strength and hotspot connections.



For the display of network operators and network signal strength used by

the tablet, only one card is displayed.

3.1.10 Current job name and job type

Job Name:20210617120305

Job:Planting Crop:Cotton Display and hide the current job name and job type after creating line AB / job: Click to modify the job type and crop type.

3.1.11 Head up or top view angle switching



Switch the head up or top view of the operation interface according to personal needs during operation.

3.1.12 Quick positioning



When the vehicle and ab line disappear and cannot be seen, click to quickly return to the center of the screen.

3.1.13 Working area

Real time display of work area during operation (can also be turned off), hidden



function: long press to delete the track, clear the current work area, and change the work line name to the current default line name.

3.1.14 Equipment status display and self-inspection



Status Real time display of equipment status and self inspection function of equipment.

3.1.15 System



System The various settings of the device include satellite settings, farm implements management, automatic navigation, intelligent spray, system setup, hidden function: long press can push out or turn off the automatic driving shortcut button, including sensitivity, farm implements management, manual record button and operation area. When the traffic flow is opened, there will be a quick function of the flow can be switched off or off.

3.1.16 Informa ionize



Including user information, equipment information and job statistics.

#### 3.1.17 Farm tools



Implement This is the shortcut button of farm tool setting on the interface, which can be closed.

3.1.18 AB line

03

<sup>AB</sup> It is used for automatic driving straight line, curve and path setting operation line.



#### 3.1.19 Manual record shortcut button



Painting It is used to record the track manually. When this button is turned on, there will

be no track generation when autopilot is turned on. Only when it is turned on can there be track generation.

3.1.21 Sensitivity shortcut button



That is, it is equivalent to the previous line stability coefficient.

3.1.22 Autopilot switch button



Used to start or end autopilot.

3.1.23 Warning prompt

It includes the connection between the base station and the network, as well as the hardware connection. See the following table for details. Hidden functions: in case of base station warning, clicking the warning will jump to the base station connection, in case of other warning, clicking the warning will jump to the equipment status, and clicking self inspection can check the problem.

Category	Prompt content	Problem description	Problem causes	Solution
Base station and	No satellite data	The number of satellites	1.GNSS antenna is not	1.Connect the GNSS
network		is 0	connected	antenna
			2.The GNSS line or	2.Replace the
			GNSS antenna is	corresponding
			damaged	equipment
			3.The vehicle is indoors	3.Drive the vehicle to an
			or heavily blocked	open area
Base station and	No network	1.Single point state	1.Poor network signal	1.Drive the vehicle to a
network		2. Tablet without internet	2.The network antenna	place with good network
			is not connected	signal



			3.The network antenna	2.Check if the network
			is damaged	antenna is well
				connected
				3.Replace the network
				antenna
Base station and	Abnormal orientation		1.The right GNSS	1. Connect the GNSS
		No heading information	8	
network	data		antenna is not connected	antenna
			2.The GNSS cable or	2. Replace the
			GNSS antenna is	corresponding
			damaged	equipment
			3. The vehicle is indoors	3. Drive the vehicle to
			or heavily blocked	an open area
Base station and	The base station is not	No base station data is	1.No base station	1. Connect to the base
network	connected	received when the	selected in network	station
		network is normal	service mode	2. Check the radio base
			2.Radio base station	station/D21
			problem or no network	3. Log in to CORS
			in D21 mode	
			3.Not logged in in	
			CORS mode	
Base station and	Poor signal quality	Floating, pseudorange	1. Too far away from the	1.Connect to a base
network			base station	station that is closer
			2.The current	2.Drive to the open area
			environment occlusion	3.Connect to other base
			3. Obstacles blocking	stations nearby
			the base station	
Base station and	Breakpoint to continue	Differential delay	No base station data	1. Check the network
network	line 300 (countdown)	exceeds 300S		2. Change to connect to
				other base stations
				nearby
Hardware connection	The motor is not	Prompt when there is no	1.Poor contact of the	1.Replacement of main
í	1		1	

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	connected	motor heartbeat data	main wiring harness	wiring harness
			2. There is a problem	2. Replace the switch
			with the power switch	3. Restart the device
Hardware connection	IMU is not connected	No gyro data	1.Gyro damage	1. Replace the gyro
			2.Cable failure	2. Replace the cable
Hardware connection	Angle sensor is not	No angle sensor value	1.Cable failure	1. Replace the cable
	connected		2.Angle sensor failure	2. Replace the angle
			3. The angle sensor is	sensor
			out of the measurement	3. Adjust the position of
			range	the angle sensor

# 3.2 State

When it is turned on, the equipment status will be displayed, including software version, longitude and latitude, motor related, etc. if there is a problem, self-inspection can be carried out to check the problem.



## 3.3 System

- 3.3.1 Satellite settings
- 3.3.1.1 Base station connection

Mode selection : There are three modes: network service, external communication



module (D21 / D10) and CORS. The mode of use: network service is to connect to the network base station. When connecting, first click refresh, and then select the base station close to the connection; The external communication module is the radio base station. When using the radio base station, you can select the channel, read and set the radio frequency; The CORS mode needs to log in to the CORS account. Enter the account and click log in. It can be used after success.

3.3.1.2 Receiver settings

At present, there are two functions of receiver type and breakpoint endurance. Five receiver types can be selected: T100 all-in-one dual antenna, T100 all-in-one single antenna, R21, r70 and analog data. Breakpoint endurance is enabled by default. Data output port and data output baud rate are none by default.

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Mr.	A.	40				
GNSS Overview	Base Station	Receiver Setting	Data output			
	External data	> Su	ccess Run Extra Mc	odule		
Implement	CORS	>				
Management	Single Point	>				
Auto-Steering						
Ô						
System Setting						
$\odot$		¢.	$\triangleleft$	0	<b>山</b> 》	





GNSS Overview	Base Station	Receiver Setting	Data output			* 🕯	12:41
Implement	Receiver Type					Simulation Data	• >
-	Ls-Fill						
Management							
٢							
System Setting							
		¢,	$\triangleleft$	0	d»		

#### 3.3.2 Farm tool management

**Agricultural tool setting:** Click the current agricultural tool to add agricultural tools, and click the plus sign in the window to add. After adding the name, you can set the parameters of agricultural tools and modify the operation / crop type.

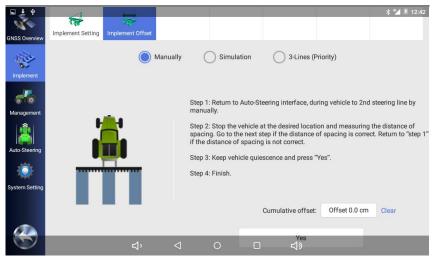
Farm tool correction: there are three methods, and the specific operation steps are described in detail on the page.

GNSS Overview	Implement Setting	et			\$ 🚰 📱 12:42
Implement	Implement in use	Implement List			1 >
Management			۲		
Auto-Steering	Width(A)			Planting	>
System Setting		lete -02- Implement Offset	0.0 m	Cotton	
$\odot$	Rear axle to 3-point hitch 50.0	m Left Offset(D1)	Right Offset(D2)		

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3.3.3 Autopilot

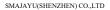
3.3.3.1 Navigation settings

**Sensitivity :** That is, the line stability coefficient of the previous automatic driving software. The higher the value is set, the more sensitive the motor rotation is, and the lower the value is, the less sensitive it is.

Slow mode: This is used for low-speed operation.

**Slope correction :** It is turned on by default, and real-time correction of rolling can improve the operation accuracy, especially when the slope ground condition is bad.

**Automatic calibration:** It is on by default. It is used to calibrate the azimuth offset of single and double gyroscopes in real time and improve the straightness level of the vehicle. If it is the angle sensor mode, it is recommended to turn it off after debugging.





GNSS Overview	System Setting Mot	© or Setting	Vehicle Calibration					*	⁵⊿ ≸ 12:42
Implement	Sensitivity	-					_	+	80
-	Transmission coefficie	ent —		-0-	_	_		+	120
Management	Online Value	-		_	_	_		+	9
Auto-Steering	Low Speed Mode								
System Setting	Lateral Slope compens	sation							
	Auto-Calibration							_	
		¢	$\triangleleft$	0		d»			

#### 3.3.3.2 Motor setting

**Motor speed**: The speed of the motor correction speed. The larger the speed, the faster the correction, and the smaller the speed, the slower.

**Motor control mode :** Including speed control and position control. The default is speed control.

**Manual release sensitivity :** The difficulty of manually releasing navigation. The larger the value, the more difficult it is to release, and the smaller the value, the easier it is to release.

**Firmware update:** The motor firmware version can be upgraded online on v2320 and later software. If there is new firmware, clicking firmware upgrade will prompt "the latest motor firmware version is detected, whether to upgrade". After confirmation, the upgrade progress bar will appear. After the progress bar is completed, it will prompt "upgrade succeeded".

#### Note:

Do not click "Firmware Upgrade" unless it is necessary. If the power is cut off during the firmware upgrade, the motor firmware will be lost, which will result in abnormal motor communication. You can only use the motor firmware upgrade cable to flash the motor firmware. Need to contact the seller to buy the firmware upgrade cable.



t ↓ GNSS Overview	System Setting	Motor Setting	Vehicle Calibration					∦ ≝≇ 1:13
Implement	Rotating Speed	-			-0-			+ 10
Management	Motor Control M	ode					S	peed Control >
Auto-Steering	Manual Steering	Override —	<u></u>					+ 10
۲	Firmware Upgrad	le						Abnormal >
System Setting								
Ø		¢,	$\triangleleft$	0		d»		

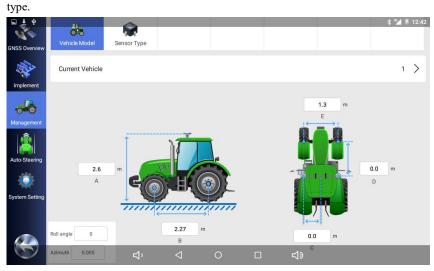
#### 3.3.3.3 Vehicle management

**Current vehicle:** Click to add different vehicles or import vehicles from the database, including vehicle type, brand, model and vehicle model. Hiding function: long press the tractor in the list to delete vehicles. Long press to delete vehicles when there are many vehicle information or vehicles with errors.



After adding the vehicle, you can enter the vehicle parameters and select the sensor

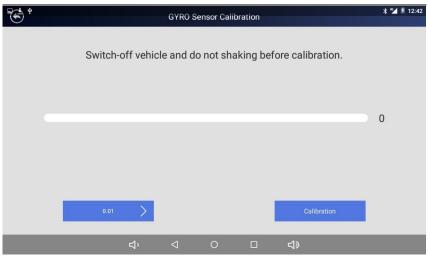




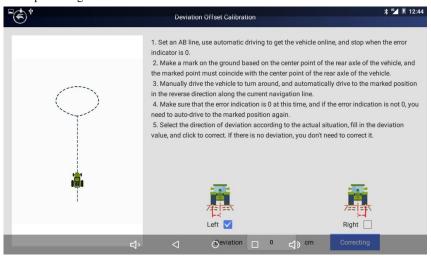
#### 3.3.3.4 Vehicle commissioning

**Sensor calibration:** This function is available only in the mode of attitude sensor and non-contact angle sensor. It will not appear in the mode of angle sensor and encoder. Click calibration during commissioning, wait for the progress bar to finish, and the calibration is completed when the confidence is calibrated. (Different values can be selected for the confidence degree, which mainly adjusts the sensitivity of the gyroscope. The smaller the set value, the higher the sensitivity. Generally, it defaults to 0.01)





**Repeat line commissioning:** During commissioning, operate in sequence according to the steps and legend.



#### 3.3.4 System settings

#### 3.3.4.1 System settings

**Speed limit threshold :** The maximum speed allowed in the automatic driving mode will be released when it is exceeded; The adjustment range is  $0 \sim 50$ km / h, and the default is 20km / h.

# **SKIA**JAYU

Language: There are three options: "follow system", "Uyghur" and "English". The follow system is what language the tablet uses and what language will be used in the software. Now English and Uyghur can be switched directly in the software, but Uyghur has not been fully adapted yet.

**Operation record unit:** There are four types: Mu, ha, M2 and acre. You can directly switch the settings here.

Length unit: There are two options: meter and foot.

Capacity unit: There are liters and gallons, domestic liters and foreign gallons.

**Operation record mode:** There are two types: manual and automatic. This can be set according to the needs. Automatic driving is the same as previous automatic driving. When the navigation is turned on, smoke will be drawn. Manually, there will be a

"manual record button" to record smoke. If it is not turned on, smoke will not be recorded.

**Dual card switching:** China Mobile and China Telecom have two options, and the appropriate one can be selected according to the local signal.

**Load backup parameters:** As long as the parameters in the settings are modified, they will be saved automatically. If the modified effect is not good, but the previous parameters are forgotten, the backup parameters can be loaded.

**Software upgrade**: A new version of the software will be put on the server. If you click it, you will be prompted to update it. If it is the latest version, you will be prompted that it is the latest version and there is no need to update it.



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GNSS Overview	System Setting	Func		\$ <sup>5</sup> ∡ ≸ 12:42
	Language	>	System Following	0
	Unit	>	Uighur	0
Management	Length Unit	>	English	۲
Auto-Steering	Capacity Unit	>	Polish	0
Q	Map Painting	>	Russian	0
System Setting	Time selection	>	French	0
	Self-start	>		
	Password protectic	nn S	ସ୍ <sup>3Turkish</sup> ସ ଠ ⊡ ସ୍୬	0

#### 3.3.4.2 Function settings

Turn on / off the corresponding functions according to the purchased functions / needs; The functions that can be used temporarily include automatic driving and flow control; The payment is flow fee, which can be paid at different times; The equipment registration is temporary registration, and the technician needs to give the registration code.





# 3.4Informatization

#### 3.4.1 User information

The corresponding information will be obtained according to the uploaded information.

🖬 🛓 🕸					* 🚰 💈 12:45
Farm Info	Device No.				1221021097
	Owner				
Device Info	Farm Name				
	Tractor Brand				
	Tractor Model				
	Horsepower				
	Bought since				
$\bigcirc$		\$ $\triangleleft$	0	<b>⊲</b> »	

#### 3.4.2 Equipment information

It is also obtained and displayed according to the uploaded and registered information.



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#### 3.4.3 Job statistics

It supports the statistics of work area, query of work area and total work area in the last week. This function will be convenient for users to a great extent.

Farm manage	Job Management	کے Job mgmt					* 🕍 🕺 12:45		
	Last Week Working Load Statistics								
Job Managem	2021-06-16	2021-0	J6-15	2021-06	-14	2021-06-13	2021-06-12		
Job Managem	0.0 Mu	0.0	Mu	0.0 Mu	J	0.0 Mu	0.0 Mu		
	2021-06-11	2021-0	J6-10						
	0.0 Mu	0.0	Mu						
	Workload Query								
	Start Time						2021-06-15		
	End Time						2021-06-16		
	Subtotal area	<b>ٹ</b>	$\triangleleft$	0		d»	Query		

# 3.5 AB line

Operation AB line setting, which can set straight line, curve, rake and path. The functions include reset line, translation line and import line.



Translation line: translate the current AB line to the left and right. Quick move



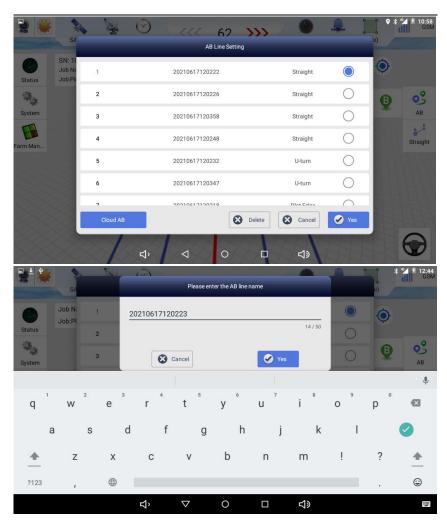
button: check the display. If it is not checked, it will not be displayed. Set the translation distance. Click the left and right arrows in the operation interface to translate the corresponding distance according to the set value.

2	SAT 38 Fix 0		<b>1:33</b> GSM
Contraction Status	SN: 1020100124 Job Name:20210617120222 Job:Planting Crop:Cotton	AB Line Shift	
System		Shift Direction Left 💿 Right 🔿 🔒	AB
Farm Man		Shift Distance 0 m	A B Straight
		Display Shortcuts           Cancel         Yes	
	1	d, d O 🗆 d)	

Import line: upload AB line and import the previous ab line or delete AB line (AB line currently used cannot be deleted), network AB line (uploaded AB line), USB flash disk can import / export AB line (select the required AB line during operation). For self-typed AB line and uploaded, you can edit the name of AB line, Just click the name of AB to modify the name you want.



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5	Cloud AB	2		
emotePath3	902009( 0.05KM)		allen	K HAL
1221021173	2021-11-15 16:11:00		a constitut	
0211112102	23(0.39KM)			10108
0	2021-11-12 10:00:00		and the second t	200
emotePath7(	(0.05KM)		and the second second	
韩金江	2021-11-08 14:54:00	-		
emotePath(	0.05KM)	- 1		Haya B
韩金江	2021-11-08 16:00:00		Carlos or	HUYO
20210617120	319(0.01KM)	2		199
王宇飞	2021-06-17 12:03:00	100	Carton 100	MARCE.
	5 15 00/0 00/01	the second se	the second se	
021-11-04-1	5-15-00( 0.03KM)	12 July 1	THE ALL AND	- California
	Import	ব <mark>্য G50</mark> ব	o 🗆 द्र)	and the
		<mark>ব</mark> , <mark>G60</mark> ব	O 🗆 🖒	A.
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# 4、 Use process and specification

# 4.1 Information entry and registration

After the equipment is installed, use a small program to enter the information,



including user information and equipment information, and then register the software before it can be used.

## 4.2 Vehicle parameter entry

System  $\rightarrow$  automatic navigation  $\rightarrow$  vehicle management  $\rightarrow$  add vehicle / import vehicle  $\rightarrow$  parameter entry  $\rightarrow$  sensor type selection

The parameters include the height of the main antenna, the distance between the main and auxiliary antennas, the distance between the antenna and the center axle, the distance between the antenna and the front axle, the wheelbase of the tractor and the wheelbase of the front wheel of the tractor.

These parameters need to be accurately measured and input into the plate. Note that the unit of the parameter is meter. Be sure to pay attention to the unit conversion, otherwise it will affect the actual use.

Sensor type selection: select the corresponding sensor type according to the installed sensor.

#### 4.3 Select base station and connect

#### System $\rightarrow$ satellite setting $\rightarrow$ mode selection $\rightarrow$ base station connection

Select network service, CORS mode or external communication module. If D10 or D21 is connected, select external communication module.

## 4.4 Automatic driving commissioning

# System $\rightarrow$ automatic navigation $\rightarrow$ vehicle commissioning $\rightarrow$ sensor calibration (not required if not) $\rightarrow$ repeat line commissioning

**Sensor calibration:** This function is available only in the mode of attitude sensor and non-contact angle sensor. It will not appear in the mode of angle sensor and encoder. Click calibration during commissioning, wait for the progress bar to finish, and the calibration is completed when the confidence is calibrated. (Different values can be selected for the confidence degree, which mainly adjusts the sensitivity of the gyroscope. The smaller the set value, the higher the sensitivity. Generally, it defaults to 0.01)

Repeat line debugging: if there is sensor calibration, calibrate the sensor first, and then repeat line debugging. If there is no sensor calibration, directly conduct repeat line debugging. Open the repeat line debugging interface and debug according to the



prompted steps.

1. Set a line AB, use automatic driving to put the vehicle on line, and stop when the error indication is 0;

2. Make a mark on the ground based on the center of the rear axle of the vehicle, and the mark point must coincide with the center point of the rear axle of the vehicle;

3 Manually drive the vehicle to turn around and automatically drive to the marked position in the reverse direction along the current navigation line;

4. Make sure that the error indication is 0 at this time. If the error indication is not 0, you need to drive automatically to the marked position again;

5, Select the deviation direction according to the actual situation, fill in the deviation value, and click correction. If there is no deviation, there is no need to correct.

## 4.5 Automatic driving use

# Width setting of farm tools $\rightarrow$ handover line setting $\rightarrow$ line AB setting $\rightarrow$ ride the vehicle on line AB manually $\rightarrow$ turn on navigation for operation

When setting line AB, the tractor must not operate and must run empty. Park the tractor at this end of the land, face the front of the tractor in the direction of operation, click the "a" button on the screen to set point a. Drive the tractor along the direction of the front to the other end of the land, stop, click the "B" button on the screen and set point B. At this time, enter the name of this line (the default is tablet code + current time).

Attention: Whenever the tractor arrives at a new land that has not been operated, it is necessary to reset the AB line. When setting the line, pay attention to whether the AB line is in straight line mode. If the operation is not completed on the same day, you can call the same AB line to continue the operation the next day.

There is a navigation button at the bottom right of the navigation interface.

# 5. Switch Optional

# 1. Equipment composition



2. Device connection



Figure 1



Figure 2

Step1: Connect the labeled wire end of the manual switch cable to the manual switch plug, where the red (2), black (3), and blue (8) are connected to the corresponding 2, 3, and 8 positions on the switch, as shown in Figure 1;

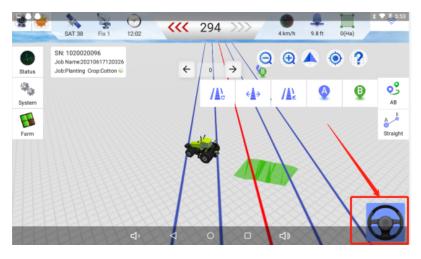
Step2: Connect the pin head of the manual switch cable to the PORT3 port on the tablet, as shown in Figure 2;

# 3. Equipment

Open the autopilot software, click System Settings, and turn on the manual switch function. During the official operation, pressing this switch button can turn on the automatic driving function without clicking the steering wheel icon on the screen.

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Implement	Password Prote	ection >				-
Vehicle	Bluetooth	>				
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P1. Turn on the manual switch function



P2. Press the manual switch to turn on the automatic driving function