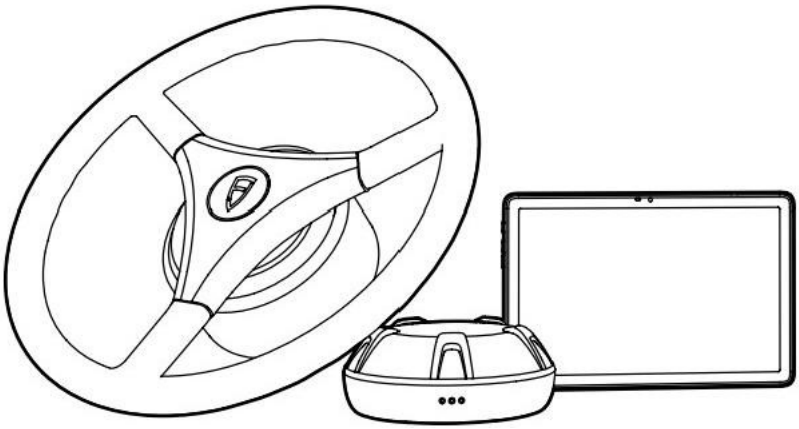
FJDynamics



FJDynamics AT2 Lite Auto Steer System Hardware Installation Manual

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Read Before Installation:



Follow this manual for installation.
Improper installation may cause machine damage and poor performance.
If you have any questions during installation,contact our customer service.

Disclaimer

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Preface

Thank you for purchasing FJDynamcis product.This manual provides detailed hardware installation guide.If you have any questions,contact the local

Purpose and Intended Users

This manual introduces the physical characteristics,installation procedures,and technical specifications of the product as wellas the specifications and use of the wiring harnesses and connectors.Based on the assumption that the users are familiar with the terms and concepts related to this product,this manual is intended for users who have read the preceding content and have experience in hardware installation and maintenance.

Technical Support

·FJDynamics'offical website:https:/www.fjdynamics.com/
·FJDynamics'customer service:service@fjdynamics.com

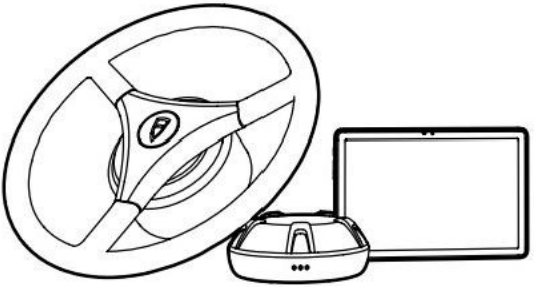
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1 Product Introduction



FJ Dynamics AT2 Lite Auto Steer System is an autosteering system that is launched by FJ Dynamics for agricultural machinery and supports assisted straightline driving.The system consists of the control terminal,GNSS receiver,electric steering wheel,and wiring harnesses.The contro terminal runs the software developed by FJ Dynamics.

2 Preparation Before Installation

2.1 Safety Instructions

Before installation,read the safety advice in this manual carefully to avoid doing harm to people and equipment.

Note that the following safety advice cannot cover allpossible dangerous situations.

2.1.1 Installation

·Do not install and commission the equipment in environments with high temperature,heavy dust,harmful gases,flammables,explosives,electromagnetic interference(for example, around large radar stations,transmitting stations,and substations),unstable voltages,great vibration,and strong noise.

·Do not installthe equipment in places where wateris likely to accumulateseepdrip,and condense;otherwise,the equipment ports could be damaged.

2.1.2 Disassembly

·To avoid accidental damage,do not frequently disassemble the equipment after installation.

·Before disassembly,turn off all power supplies and disconnect the cable from the battery to prevent equipment damage.

2.1.3 Electrical Operations

·Electrical operations must be performed by qualified personnel in accordance with local laws and regulations.

·Carefully check the working area for potential hazardssuch as wet ground.

·Before installation,learn about the position of the emergency stop button.Use this button to cut off the power supply in case of accidents.

·Do not put the equipment in a humid place.Prevent the liquids from entering the equipment.

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·Stay away from radio transmitting stations,radar stations,high-frequency and large-current equipment,and other high-power radio equipment.
·Direct or indirect contact with high voltage or utility power may cause death.

2.2 Installation Requirements

To ensure the norma operation of the equipment,the installation site must meet the following requirements.

2.2.1 Installation Position

·Ensure that the installation position is firm enough to support the equipment and its accessories.
·Ensure that there is enough space to install the equipment at the installation position,without any obstruction or obstacle.

2.2.2 Temperature and Humidity

·The temperature and humidity of the working environment should be kept within a reasonable range to ensure the normal operation and service life of the equipment.Avoid high temperature and humidity.In summer,protect the control termina from direct sunlight,and note that appropriate space must be maintained between the shelter and the control terminal.
·The equipment willbe damaged if it works under improper environmental temperature and humidity.
·When the relative humidity is too hgh,insulating materials may not perform wellcausing leakage currents.Mechanical property changes,rusting,and corrosion may also occur.
·When the relative humidity is too low,insulating materials will dry and contract,and static electricity may occur and damage the electric circuits of the equipment.

2.2.3 Air

·Ensure that the contents of salt,acid,and sulfide in the air are within a reasonable range. Some hazardous substances will accelerate the rusting and corrosion of metals and the aging of parts.Keep the working environment free of harmful gases(for example,sulfur dioxide, hydrogen sulfide,nitrogen dioxide,and chlorine).

2.2.4 Power Supply

·Input voltage:The system supports the input voltage of 9-36V.
·Ensure that the power line is connected properly to the positive and negative terminals of the battery.Keep wiring harnesses away from hot objects.

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2.3 Installation Tools

Prepare the following tools before installation.

Installation Tools for AT2 Lite Auto Steer System				
No.	Tool	Specifications	Qty.	Function
1	Cross screwdriver	PH0*75 small size	1	Install the SIM card.
2		PH2*100 medium size	1	Install the GNSS receiver and bracket assembly.
3	Allen key	3	1	Install the splined sleeves.
4		5	1	Install the motor bracket and nameplate bracket.
5	Open-end wrench	8	1	Installthe antenna bracket assemblies on top of the machine.
6		11	1	Fix the U-bolts of the control terminal.
7		13	2	Installthe motor bracket.nstall antenna bracket assemblies.
8		12/14	2	Install the battery cables(bolt size depends on the machine model) and motor bracket.
9		18/21	1	Disassemble and install the front axle shaft cover bolts(bolt size depends on the machine model).
10	Sleeve	8	1	Install the antenna bracket assemblies on top of the machine.
11		24/27	1	Installthe GNSS receiver and antenna bracket assembly. Disassemble and install the lock nut of the original steering wheel.
12	Electric drill		1	Work with sleeves.
13	Tweezers		1	Install the SIM card.
14	Ejector pin		1	Install the SIM card.
15	Box cutter		1	Unpack.
16	Scissors	\	1	Cut cable ties.
17	Tape measure	5m	1	Measure vehicle parameters.
18	Open-end wrench	9/10	1	Spare part.

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19	Extra-long box-end wrench	11/13/14	1	Spare part.

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2.4 Unpacking and Inspection

Unpack and check the items according to the following list

No.	Assembly	Component		Qty.	Remarks
1	Electric steering wheel	Steering wheel		1	
2		Steering motor		1	12V/24V
3		Small self-sealing bag	Hexagon socket head cap screw M4×14	6	Install splined sleeves.
4			Spring washer M4	6	
5			Plain washer M4	6	
6	Control terminal	Control terminal		1	
7		Control terminal bracket		1	Fix the control terminal.
8		Control terminal mounting base		1	
9		Nut		4	
10		U-bolt		2	
11	GNSS receiver	GNSS receiver		1	
12		Antenna bracket assembly		1	
13		Antenna bracket assembly Ⅱ		2	
14		3M sticker		1	Fix the GNSS receiver and antenna bracket assemblies.
15		Small self-sealing bag 1	Prevailing torque type hexagon nuts with flange style 2	4	
16			Hexagon bolt 5/8-11	1	
17			Spring washer M16	1	
18			Plain washer M16	1	
19		Small self-sealing bag 2	Self drilling screw	4	
20	Nameplate bracket	Nameplate bracket		1	With the nameplate mounted.
21		Small self-sealing bag	Hexagon socket head cap screw M6×16	2	Fix the nameplate bracke.
22			Spring washer M6	2	
23			Plain washer M6	2	

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No.	Assembly	Component		Qty.	Remarks
24	Wiring harnesses	Main power cable		1	
25		GNSS receiver wiring harness		1	
26		Main wiring harness		1	
27		Spare main wiring harness		1	
28		Angle sensor assembly		1	
29		Radio antenna	Sucker base		
30			Radio antenna		
31			3M sticker	1	Fix the radio antenna.
32	Others	Large self-sealing bag	Packing list	1	
33			Software user manual	1	
34			Certification	1	
35			Nylon cable tie	20	

•—	Note:The splined sleeves,motor bracket,and angle sensor bracket are not included in the list and will be provided by the dealer separately.The dealer will be responsible for the installation of such parts based on your machine model.

Above is the general shipping configuration.The actual shipment is subject to the contract and may differ slightly.Check the items in the package according to the packing list or the contract.If there is any doubt or discrepancy,contact your dealer.

3 Inspection

Read Chapter 2 carefully,and ensure all requirements specified in this chapter are met before installation.

3.1 Inspection Before Installation

Before installation,make a detailed plan and arrangement regarding the installation position, power supplyand wiring of the equipment,and ensure that:

·There is sufficient space to facilitate equipment installation and heat dissipation.
·The environmental temperature and humidity meet the requirements.
·The power supply and wiring meet the requirements.
·The seected power supply matches the system power.
·For a user-specific equipment,ensure that the specific requirements are met.

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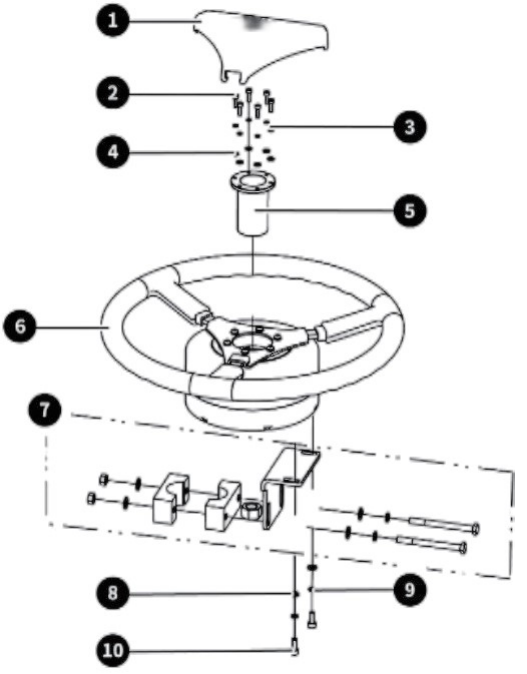
3.2 Precautions

·Cut off the power supply when installing the equipment.
·Place the equipment in a dry environment.
·Do not place the equipment in a high-temperature environment
·Keep the equipment away from high-voltage cables.
·Keep the equipment away from strong thunderstorms and electric fields.
·Unplug the power supply before cleaning.
·Do not clean the equipment with liquids.
·Do not open the equipment enclosure.
·Fix the equipment firmly.

4 Installation

4.1 Installing the Electric Steering Wheel

4.1.1 Components



Electric Steering Wheel Assembly			
No.	Name	Qty.	Remarks
1	Dust cap	1	

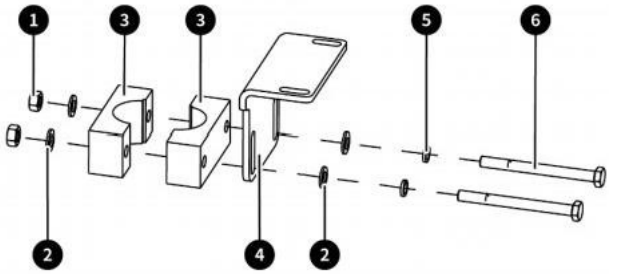
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2	Hexagon socket head cap screw M4×14	6	
3	Spring washer M4	6	
4	Plain washer M4	6	

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Electric Steering Wheel Assembly			
No.	Name	Qty.	Remarks
5	Splined sleeve	1	Packed in the accessory box and selected according to the machine model.
6	Electric steering wheel	1	
7	4#motor bracket	1	Packed in the accessory box and shown below.
8	Plain washer M6	2	
9	Spring washer M6	2	
10	Hexagon socket head cap screw M6×16	2	

*An example of 2#motor bracket is shown below.

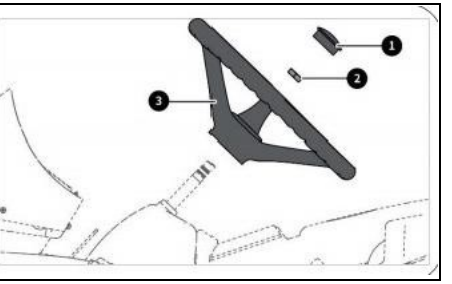


2#Motor Bracket(Component 7 of the Electric Steering Wheel Assembly)			
No.	Name	Qty.	Remarks
1	Hexagon nut M8	2	
2	Plain washer M8	4	
3	Steering column hoop	2	
4	Steering motor mounting bracket	1	
5	Spring washer M8	2	
6	Hexagon bolt M8×80	2	

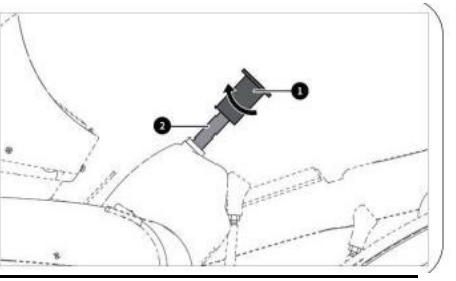
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4.1.2 Installation Steps

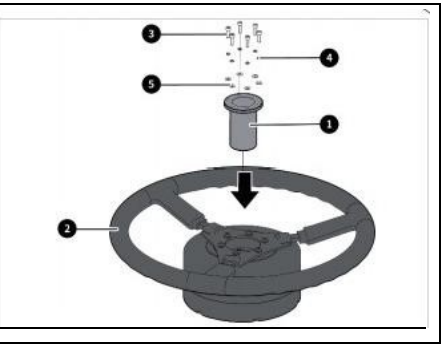
1.Remove the dusk cap O of the original steering wheel on the machine,unscrew the lock nut ② (keep the nut for later use), and pull out the original steering wheel ③.



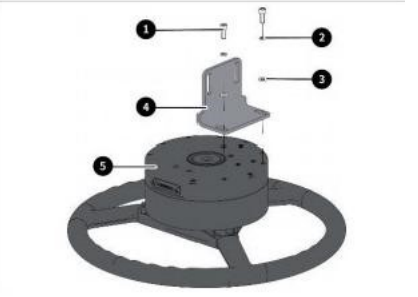
2.Install the splined sleeve 0on the steering column ② ,and check whether the splined sleeve is appropriate by rotating it to see whether there are any sways or gaps.As the steering column on the machine varies, you may try several splined sleeves to select the one that fits.



3.Remove the selected splined sleeve 0from the steering column,put it into the steering motor of the electric steering wheel ②, and then fix the splined sleeve and the motor with six M4×14 hexagon socket head cap screws ③,six M4 spring washers ④and six M4 plain washers ⑤.



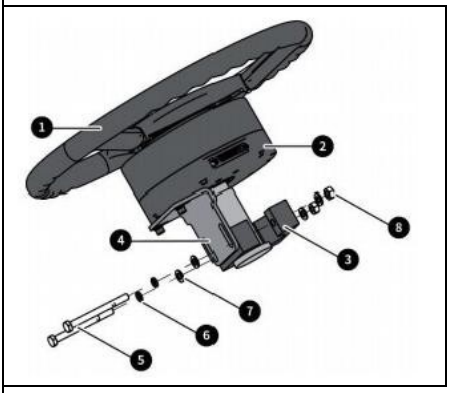
4.Fix the steering motor ⑤and motor bracket ④with two M6×16 hexagon socket head cap screws **0** ,two M6 spring washers ②, and two M6 plain washers ③.Do not fully torque the screws at this time.



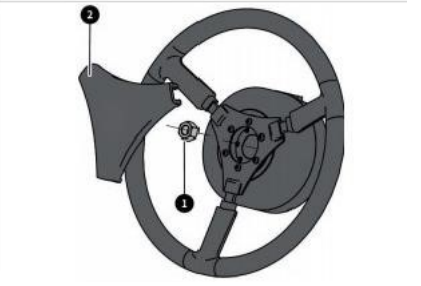
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•—	Note:As the dashboard under the steering wheel varies, select an appropriate motor bracket according to the specific machine used. The 2#motor bracket is only shown and illustrated as an example.

5.Installthe electric steering wheel 0 on the machine,and adjust the position of the motor port ② to facilitate the wiring harness connection (it is recommended to adjust it to the position convenient for connection with the control terminal). Install the steering column hoop ③, adjust the position of the motor bracket ④,and tightenit with two M8×80 hexagon bolts ⑤,two M8 spring washers ⑥,two M8 plain washers ⑦, and two M8 hexagon nuts **8** to ensure that the motor bracket is firmly installed and the outer ring does not rotate with the bracket.



6.Install the lock nut ① removed in step1 on the splined sleeve and installthe dust cap②.



4.2 Installing the GNSS Receiver

4.2.1 Components

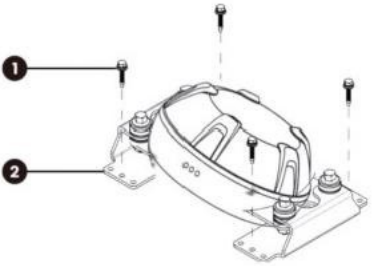
No.	Name	Qty.	Remarks
1	GNSS receiver Antenna bracket assembly	1	
2	DovetailNail	4	
3	3M sticker	2	

4.2.2 Installation Steps

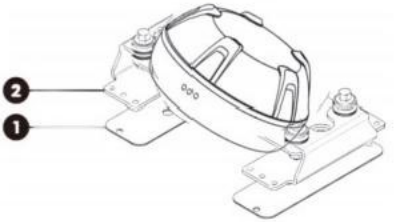
1.The GNSS receiver can be fixed on the top of the agricultural machinery by using dovetail nails or 3M double-sided tape.Choose the appropriate installation method according to the actual situation of the top of the agricultural machinery.

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Method 1:Fix the four corners of the GNSS receiver bracket 2 to the top of the agricultural machinery using dovetailnails O.

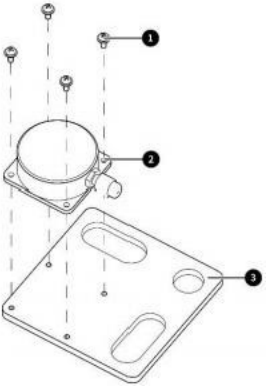


Method 2:Use 3M double-sided tape 2 to stick and fix the GNSS receiver bracket 0.



4.3 Installing the Angle Sensor

4.3.1 Components

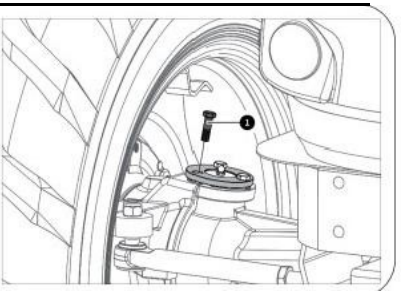


No.	Name	Qty.	Remarks
1	Assembly bolt M3×8	4	
2	Angle sensor	1	
3	Angle sensor bracket	1	

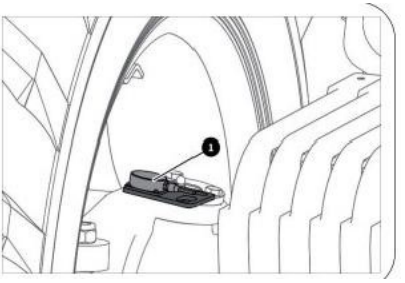
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4.3.2 Installation Steps

1.Remove the front axle shaft cover bolts 0.

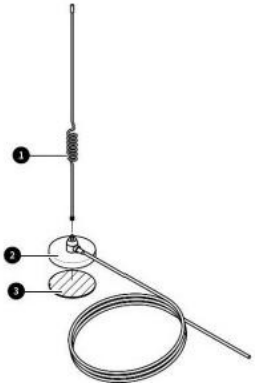


2.Install the angle sensor 0on the front axle, adjust the wiring harness,and install and tighten the bolt removed in step 1.



4.4 Installing the Radio Antenna

4.4.1 Components



No.	Name	Qty.	Remarks
1	Radio antenna	1	
2	Sucker base	1	

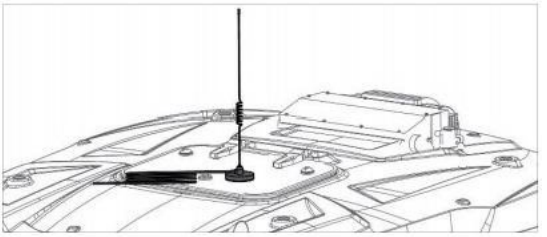
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3	3M sticker	1	

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4.4.2 Installation Steps

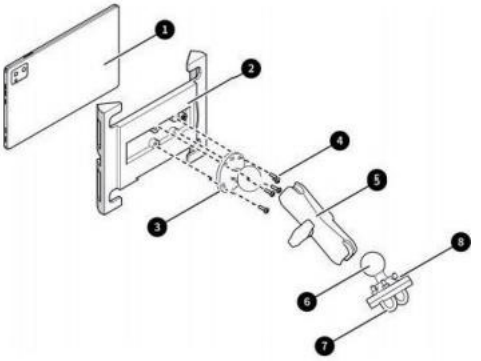
·If there is no suitable metal plane on top of the machine,select and clean a suitable plane to install the antenna.Attach the 3M sticker on the sucker base of the radio antenna,and attach the antenna to the selected position.



·If there is a suitable metal plane on top of the machine,wipe the plane clean,and then directly suck the radio antenna to the plane.

4.5 Installing the Terminal

4.5.1 Components

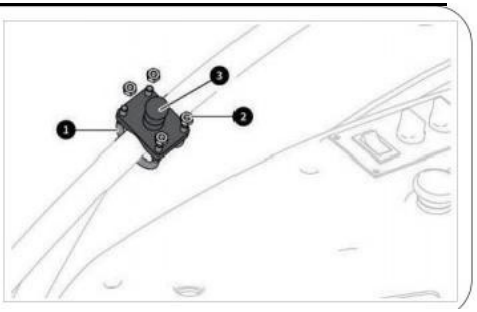


No.	Name	Qty.	Remarks
1	Control Terminal assembly	1	
2	Control Terminal Bracket	1	
3	Control Terminal bracket connectorl	1	
4	Screw	4	
5	Bracket fixing rod	1	
6	Control Terminal bracket connector2	1	
7	U-bolt	2	
8	Nuts	4	

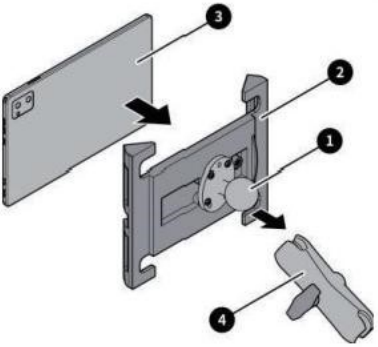
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4.5.2 Installation Steps

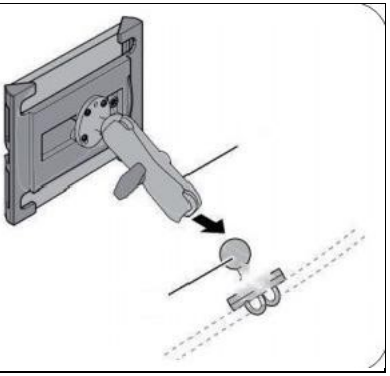
Step 1:Select a position on the door armrest on the side of the cab joystick that is easy for personnel to operate,and use 2 U-bolts 0 and 4 nuts ② to fix the connection base 3.



Step 2:Fix the connection base 0 to the back of the tablet terminal bracket ② with screws,put the tablet terminal ③ in and fix it,rotate the handle of the fixing rod ④ counterclockwise to loosen the left and right sides.Connect the tablet terminal to the upper ballsocket of the fixing rod through the back ballhead.



Step 3:Installthe tablet terminal and the fixing rod O connected in step 2 into the ball ②of the connection base in the same way.After confirming the position,rotate the fixing rod handle clockwise to ensure that the tablet terminal is fixed and does not shake.



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4.6 Installing the Terminal

4.6.1 Components

No.	Name	Qty.	Remarks
1	SIM card	1	Nano SIM



Notes:

1.Purchase a SIM card that supports the frequency bands of the 4G communication module of the control terminal.

2.Ensure that the SIM card supports the following 4G frequency bands:

LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B20/B28

LTE-TDD:B38/B39/B40/B41

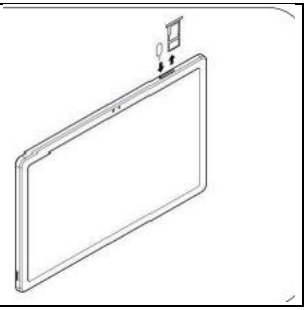
GSM:B3/B5/B8

3.Ensure that you have data service with your SIM card.

4.After installing the SIM card,turn on the control terminal and set the APN and network type in the Android system settings if it is required according to the SIM card manual.

4.6.2 Installation Steps

1.Find the SIM card slot on the side of the tablet terminal,carefully insert the SIM card needle into the small hole in the SIM card slot,and apply slight pressure until the SIM card tray pops out.



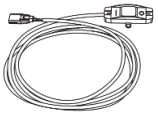
2.Take out the SIM card tray,align the SIM card with the card slot,make sure the metal contact point of the SIM card is in the correct direction and matches the shape of the slot,and gently put the SIM card into the slot,making sure it is completely flat and not loose.

3.Gently push the SIM card tray back into the slot,making sure the edge of the tray is flush with the tablet case.

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4.7 Installing Wiring Harness

4.7.1 Components


❶


❷


❸


❹


❺

No.	Name	Qty.	Remarks
1	Main Wiring Harness	1	
2	GNSS receiver wiring harness	1	
3	Main Power Cable	1	
4	Angle Sensor Assembly	1	
5	Radio antenna	1	

4.7.2 Installation Steps

Install the wiring harnesses according to the figure below.

Notes:

1.Do not plug or unplug the harness connectors or connect equipment when the power is on. Ensure that the machine and the battery are turned off.
2.Avoid high temperature and rugged places when wiring.
3.Connect the power wiring harness to the negative terminal first,and then connect it to the positive terminal and other wirng harnesses.
4.Keep the radio antenna away from the GNSS receiver,and ensure that it is firmly sucked and unobstructed.

Installation Tips:

1.Main/spare wiring harness:Lock the door on the right side of the cab,and then sort out the wiring harness and fixit on the right door handle or the A-pillar at the right front of the cab with nylon cable ties
2.GNSS receiver wiring harness:Extend the wiring harness from the roof(such as the sunroof) along the cab to the right front of the seat.
3.Main power cable:Connect the negative connector of the wiring harness to the negative

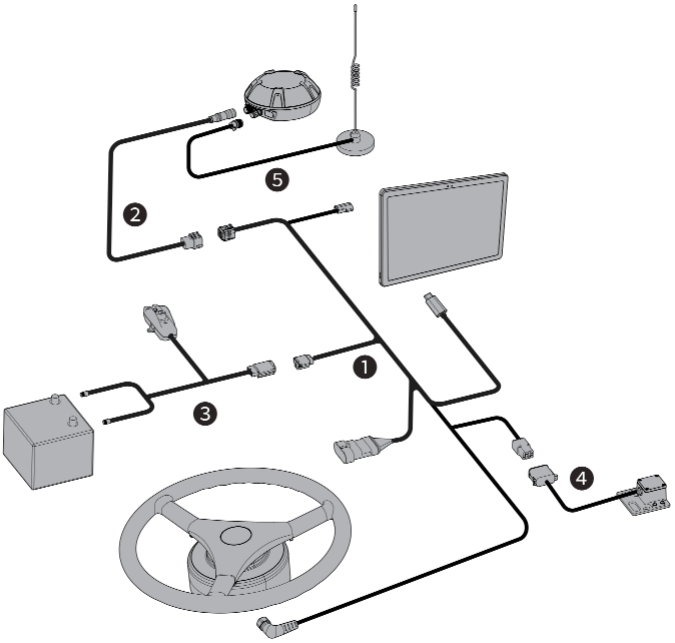
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terminal of the batteryand do not connect the positive connector of the wiring harness at this time.Fix the wiring harness along the right side of the machine with nylon cable ties,and connect it into the cab from the rightfront of the cab.

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4.Angle sensor assembly:Leave 10 cm of the wiring harness at the sensor side,fix the wiring harness along one side of the machine with nylon cable ties,and connect it into the cabfrom the front of the cab.

5. Radio antenna:Route the wiring harness in the same direction as that of the GNSS receiver, and keep the antenna away from the receiver.



5 System Commissioning

5.1 Site Requirements

1.Ensure that the vehicle is in good condition and all parts work properly

2.Ensure that there are no tall trees,buildings,or other obstacles around the site to protect the operation from signal interference.

3.Ensure that there are no high-voltage power lines within 150 m around the site.

4.The site ground should be level and no smaller than 50 m×10 m.

5.The site should have flat concrete pavement or asphalt pavement.

6.Commissioning should be carried out on non-public roads.Ensure that no irrelevant personnel stay around the vehicle during commissioning to prevent accidents

5.2 Power-on

5.2.1 Inspection Before Power-on

1.Check whether the power supply is connected correctly.

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2.Check whether the supply voltage is satisfactory.

5.2.2 Inspection After Power-on

1.Check whether the power indicator of the control terminal is lit
2.Turn on the contro terminal,and check whether the system program starts normally

5.3 Parameter Calibration

For details,refer to the FJDynamics AT2 Lite Auto Steer System Software User Manual.

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6 Appendix

6.1 Specifications

No.	Component		Specifications
1	Control terminal		Size:251x170x17(mm); Screen:10-inch Resolution:1280*800, RAM:4GB ROM:64GB Supply voltage:5V/3A DC; Signals received:4G signal. Operating temperature:-10℃ to 45℃ Storage temperature:-20℃ to 70℃ Wireless communication:2.4GHzWi-Fi,BT5.0
2	GNSS receiver		Size:162 mm×64.5mm External interface:TNC dual antenna extension×1, Type-C debug port×1 Frequency band:GPS LI/L2;GLONASS LI/L2;BDS BI/B21; Galileo E1/E5b Operating voltage:9V-36V operating current:<300 mA IMU accelerometer accuracy:0.5 mg IMU gyroscope accuracy:0.10/s Rol/pitch:0.2° Operating temperature:-20℃ to 70℃ Storage temperature:-40℃ to 85℃ IP rating:IP67
3	Electric steering wheel	Steering wheel	Diameter:410 mm
4		Steering motor	Supply voltage:12 V or 24V Peak torque:15 Nm(12V);20 Nm(24V) IP rating:IP65
5		Splined sleeve	Multiple sizes
6	Radio antenna		Frequency range:410 MHz-470 MHz Voltage standing wave ratio:≤2.0 Gain:1±0.5 dBi Impedance:50Ω Polarization:vertical Size:082 mm×490 mm operating temperature:-20℃ to 60℃
7	Angle sensor		Supply voltage:12V Output frequency:max.200 Hz Resolution:<0.1° Operating temperature:-20℃ to 85℃ IP rating:IP67

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This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:

(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.
conditions d'exposition portables.

ISED Radio Frequency Exposure Statement:
This equipment complies with ISED exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

Déclaration d'ISDE sur l'exposition aux radiofréquences :
Cet équipement est conforme aux limites d'exposition d'ISDE établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et le corps.

Operation of this device is restricted to indoor use only. (5150-5350MHz)
Le fonctionnement de cet appareil est limité à une utilisation en intérieur uniquement. (5150-5350MHz)

For Canada: The frequency stability of all transmission frequencies of U-NII-1, U-NII 2A and U-NII-3 meets the requirements of RSS-Gen Issue 5, Section 6.11, and the manufacturer states that their transmissions remain within the U-NII-1, U-NII 2A and U-NII-3 bands.

Pour le Canada : La stabilité de fréquence de toutes les fréquences de transmission U-NII-1, U-NII 2A et U-NII-3 répond aux exigences de la norme CNR-Gen, édition 5, section 6.11, et le fabricant déclare que leurs transmissions restent dans les bandes U-NII-1, U-NII 2A et U-NII-3.

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1)This device may not cause harmful interference, and
2)this device must accept any interference received, including interference that may cause undesired operation.

- **15.105 Information to the user.**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Exposure Warning Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

For USA: The frequency stability of all transmission frequencies of U-NII-1, U-NII 2A and U-NII-3 meets the requirements of 47 CFR FCC Part15.407(g), and the manufacturer declares that their transmission is maintained at Band U-NII-1, U-NII 2A and U-NII-3.

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