



Ride-on lawn sprayer

KT1100-HD

Operation Manual



Shouguang Nake Garden Machinery Co., Ltd

Thank you very much for purchasing this product

Please read this manual completely, otherwise you may be injured or damage the equipment. This manual should be kept with you forever and sent to you as the user.

This manual uses the metric standard. The person sitting on the main machine faces the direction of the machine. The left and right of the person are the left and right of the machine. If you encounter a dotted arrow, it means that the parts are hidden inside.

Nake Machinery provides warranty to customers who operate and maintain according to the requirements of this manual as part of the entire support program. The warranty of this product can be explained in the warranty certificate received from the dealer.

Purchase date:

Dealer name:

Phone:

Serial number:

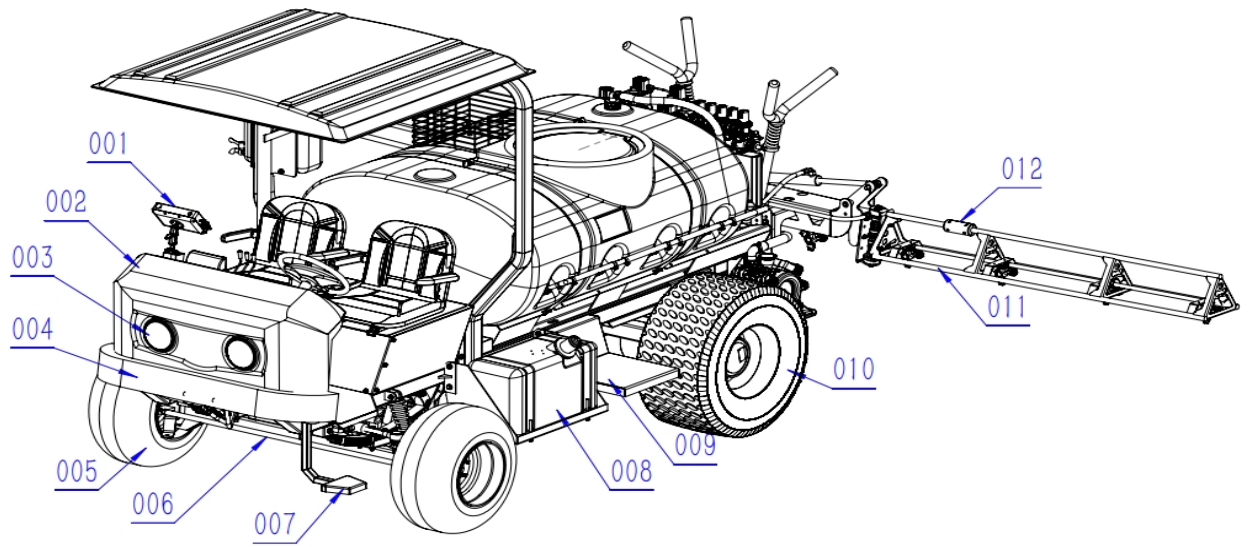
Mechanical equipment configuration table

Name		Ride-on lawn sprayer
Model		KT1100-HD
		
Configuration parameters		
Overall dimensions (L x W x H)		4450x1980x2550 (mm)
Weight		980kg
Operation speed		0~16km/h
Working width		5.6m
Drive mode		Hydraulic drive, wheel side reduction
Hydraulic configuration		Danfoss hydraulic master pump, hydraulic motor
Mixing system		4 side mounted jet agitators
Water tank capacity		1100L
Engine	Brand Model	Kubota V1505-CT04 four-cylinder diesel engine
	Power(kw/rpm)	26.1/3000
Other	Tire	Front wheel 24x12.00-12, rear wheel 31x15.50-15
	Steering system	Hydraulic steering
	Spray control system	TEE JET intelligent control spraying (GPS satellite positioning)
	Water pump model	MB4200
	Water pump pressure/displacement	435psi / 30Bar/200L
	Water pump drive	Hydraulic motor
	Spray nozzle	Three-nozzle spray head
	Optional	Foam marking system, Pesticide mixing system

Operation precautions

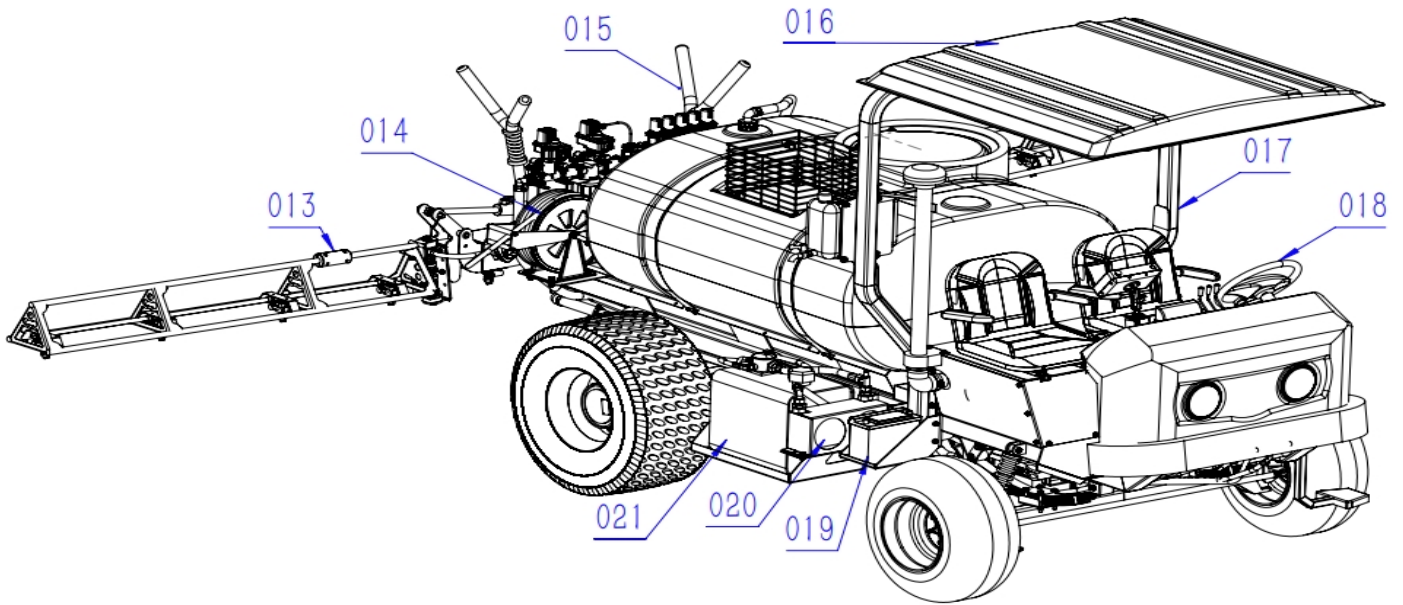
1. Operators of this machine must undergo strict driving training and master the operating essentials.
2. Strictly abide by the operating procedures, and violent operation and other dangerous behaviors are strictly prohibited!
3. Wear a protective mask and qualified and effective labor protection supplies during spraying operations, and pay attention to the wind direction when spraying to prevent poisoning.
4. When preparing the liquid, it should be strictly carried out in proportion and in the required order.
5. Before starting, check the lubricating oil, fuel, and tire pressure, etc., to confirm that the safety and technical status of all parts of the sprayer are in good condition.
6. Before operation, the operation site should be surveyed, obstacles should be cleared, and personnel not related to the operation should leave the operation site.
7. During use, if the engine or transmission box has abnormal sounds or odors; throttle control failure occurs, etc., the machine should be stopped immediately for inspection.
8. After the operation is completed, please use clean water to clean the residual liquid in the medicine box and water pump in time to avoid corrosion of important parts.
9. Please add qualified diesel fuel to this machine.

Parts Diagram



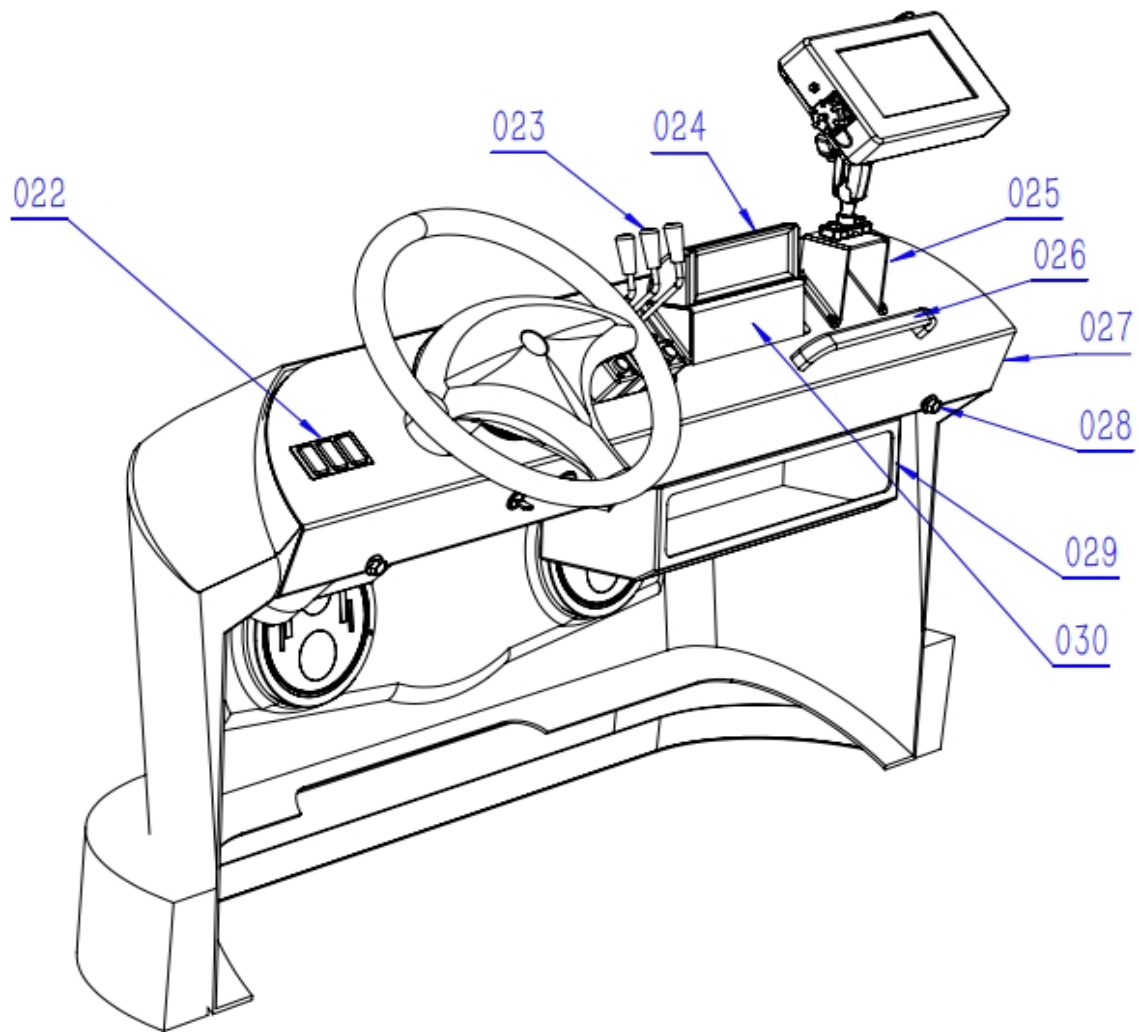
Item	Part No.	Description	Qty.	Serial Numbers/Notes
001	N36-3834	Display	1	
002	N66-2800	Front cover	1	
003	N95-4540	Lights	2	
004	N76-7021	Bumper	1	
005	N60-9325	Tire	2	
006	N76-1822	Steering lever	1	
007	N32-5602	Pedal	2	
008	N60-2470	Fuel tank	1	
009	N87-9304	Pedal	1	
010	N70-3258	Tire	2	
011	N60-3079	Bracket	2	
012	N90-7551	Guard	1	

Parts Diagram



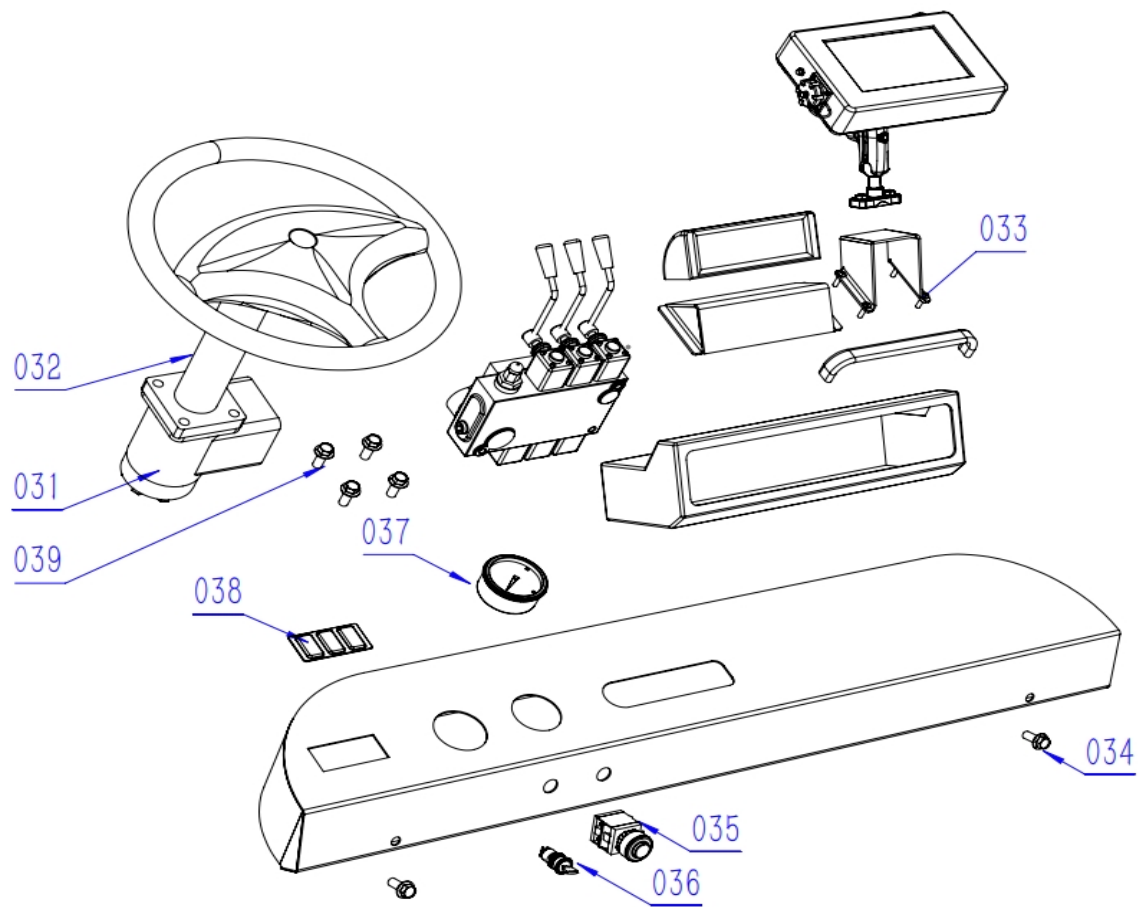
Item	Part No.	Description	Qty.	Serial Numbers/Notes
013	N88-2404	Sheath	1	
014	N57-9588	Hose reel	1	
015	N25-3731	Bracket	2	
016	N66-4333	Ceiling	1	
017	N99-6749	Safety rack	1	
018	N70-9633	Steering wheel	1	
019	N86-4908	Battery	1	
020	N72-3208	Hydraulic oil radiator	1	
021	N70-2565	Hydraulic oil tank	1	

Parts Diagram



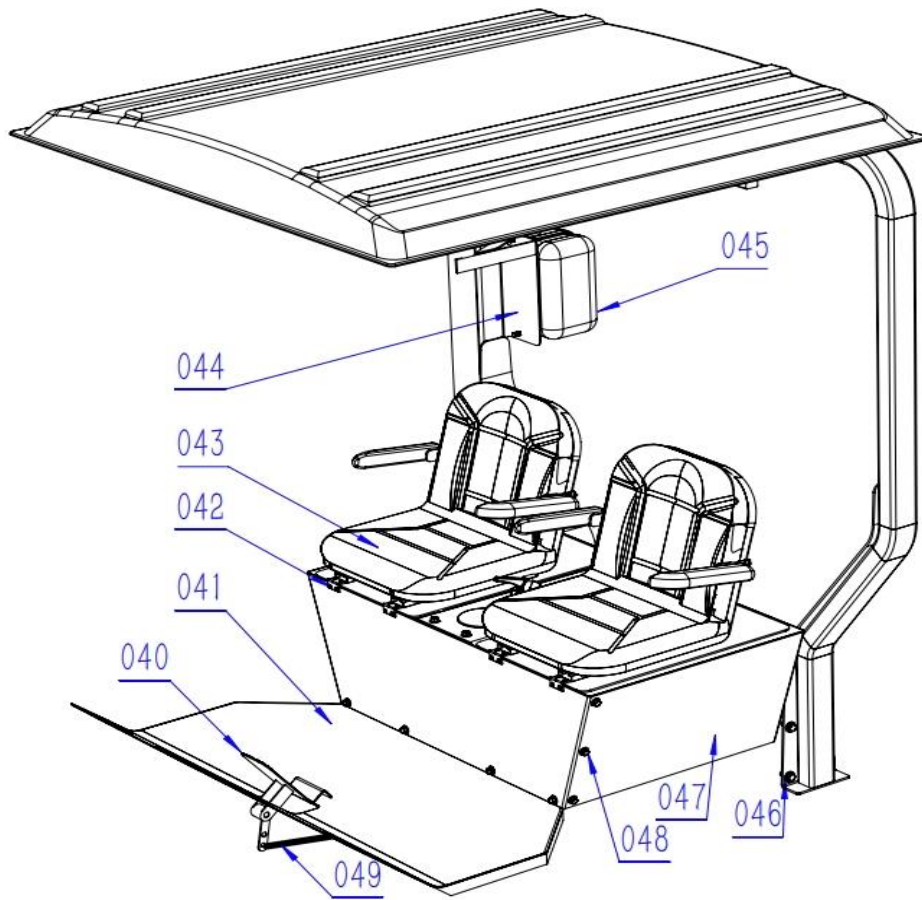
Item	Part No.	Description	Qty.	Serial Numbers/Notes
022	N88-3361	Light switch	3	
023	N72-2854	Operating lever	3	
024	N68-3476	Display screen	1	
025	N80-8523	Bracket	1	
026	N88-9685	Handrail	1	
027	N65-6427	Guard plate	1	
028	N66-6865	Bolt	2	
029	N78-5840	Storage box	1	
030	N52-4217	Base	1	

Parts Diagram



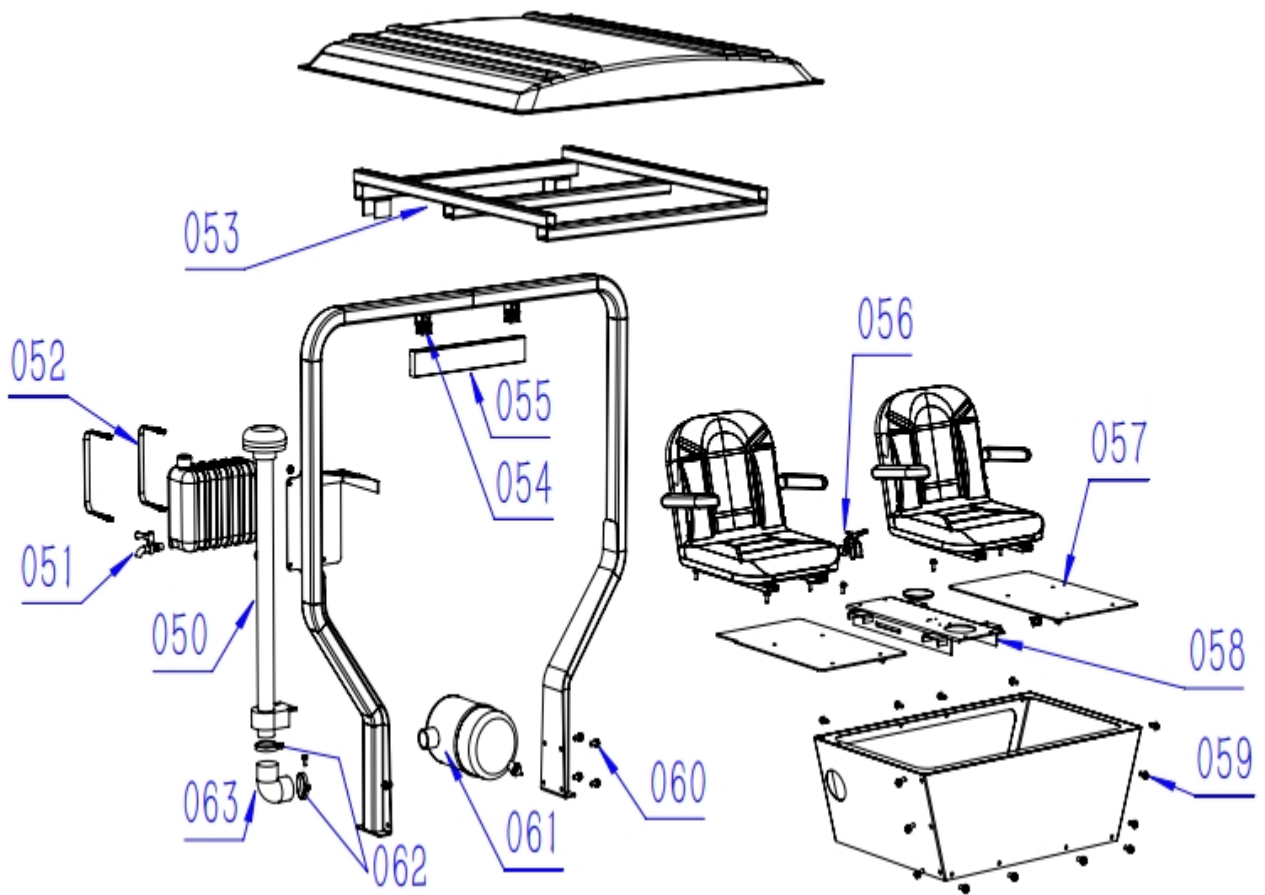
Item	Part No.	Description	Qty.	Serial Numbers/Notes
031	N15-8301	Steering gear	1	
032	N52-4544	Steering gear column	1	
033	N62-8818	Bolt	4	
034	N93-2755	Bolt	1	
035	N70-2352	Preheating switch	1	
036	N21-2152	Ignition switch	1	
037	N32-2041	Integrated instrument	1	
038	N72-2854	Operating lever	3	
039	N76-7579	Bolt	4	

Parts Diagram



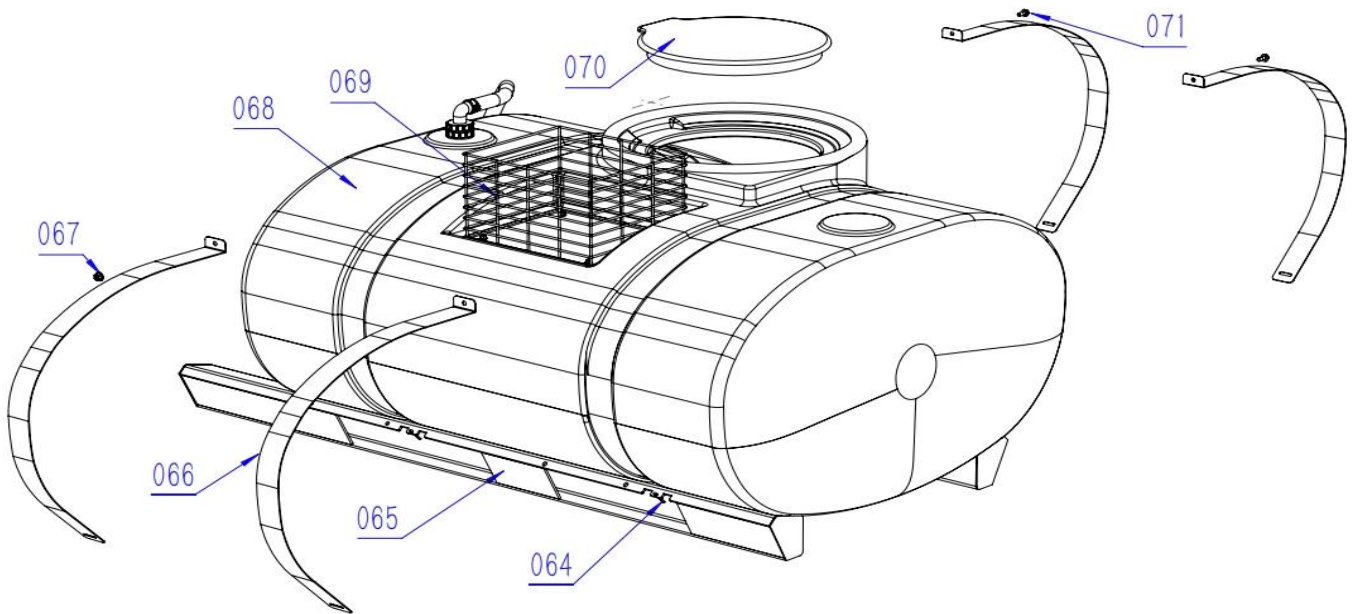
Item	Part No.	Description	Qty.	Serial Numbers/Notes
040	N88-1864	Walking pedal	1	
041	N76-1702	Base	1	
042	N99-3569	Seat adjustment lever	2	
043	N15-9387	Seat	2	
044	N85-4417	Base	1	
045	N80-2517	Water tank	1	
046	N62-2806	Bolt	4	
047	N10-8073	Guard plate	2	
048	N95-6823	Bolt	10	
049	N72-3745	Walking cable	1	

Parts Diagram

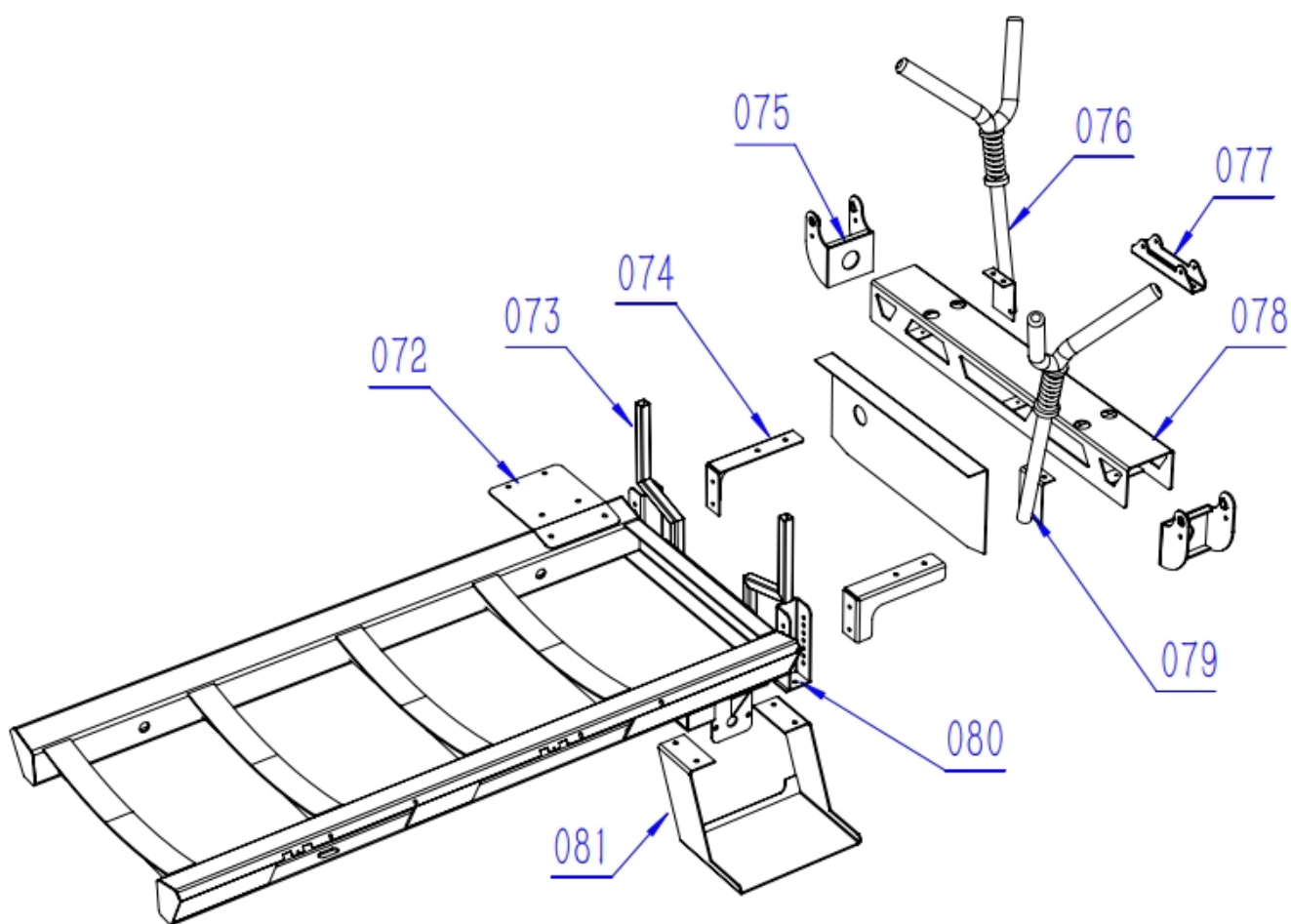


Item	Part No.	Description	Qty.	Serial Numbers/Notes
050	N60-9826	Intake pipe	1	
051	N95-3994	Switch	1	
052	N65-7165	Bracket	2	
053	N86-6216	Ceiling bracket	1	
054	N96-8635	Lighting bracket	2	
055	N82-7357	Lighting	1	
056	N90-4989	Throttle switch	1	
057	N66-9592	Guard plate	2	
058	N68-9359	Middle guard plate	1	
059	N88-9742	Bolt	14	
060	N87-5074	Bolt	8	
061	N87-8374	Air filter	1	
062	N65-3607	Metal pipe clamp	2	
063	N95-5170	Intake pipe	1	

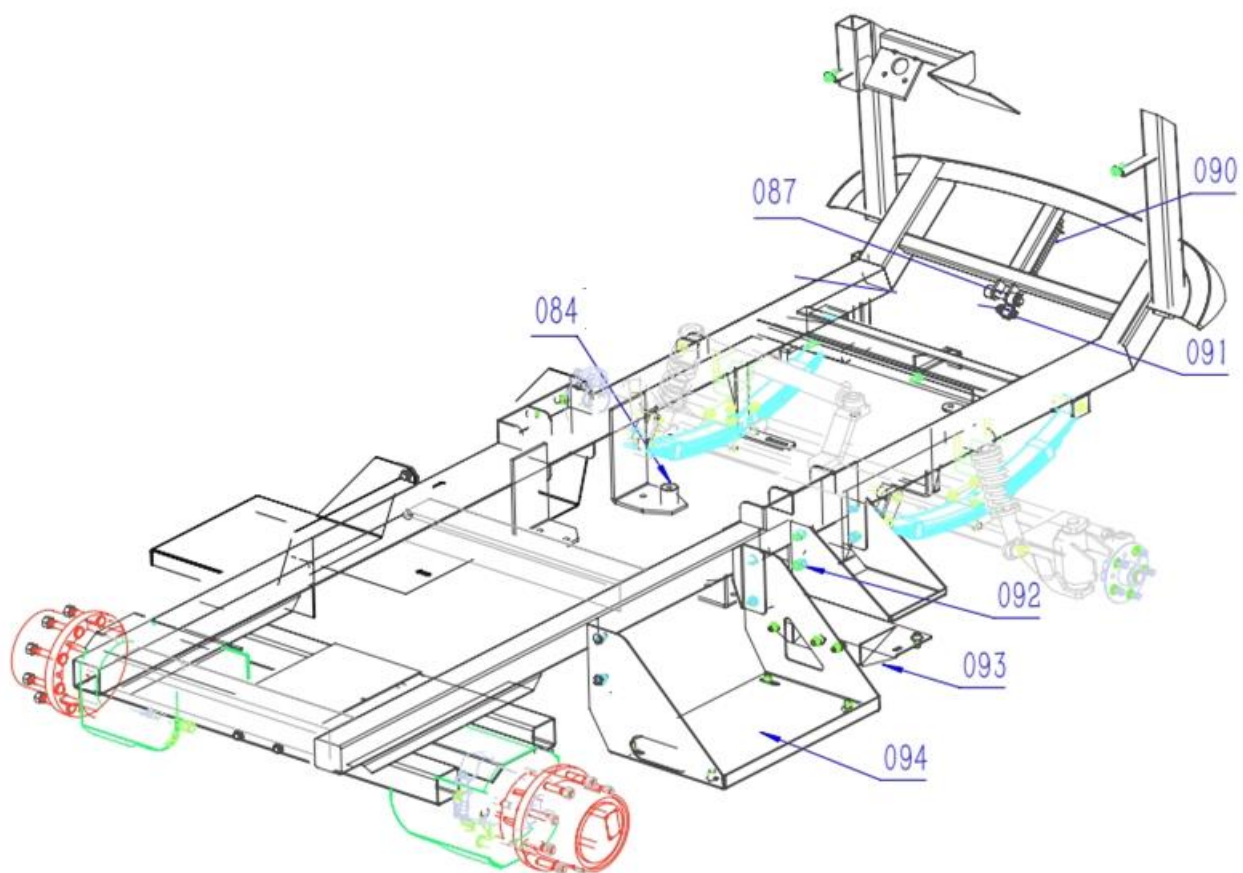
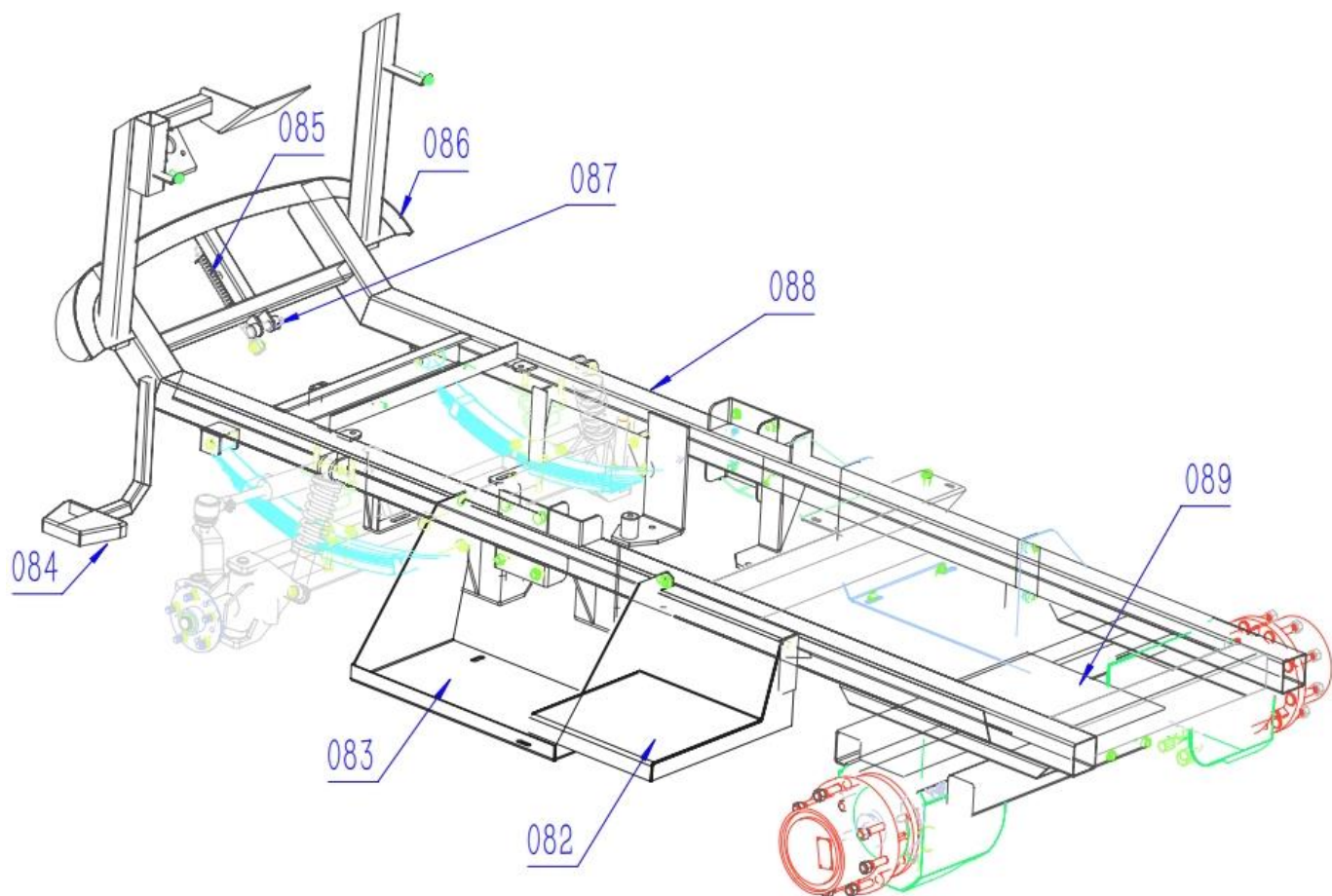
Parts Diagram

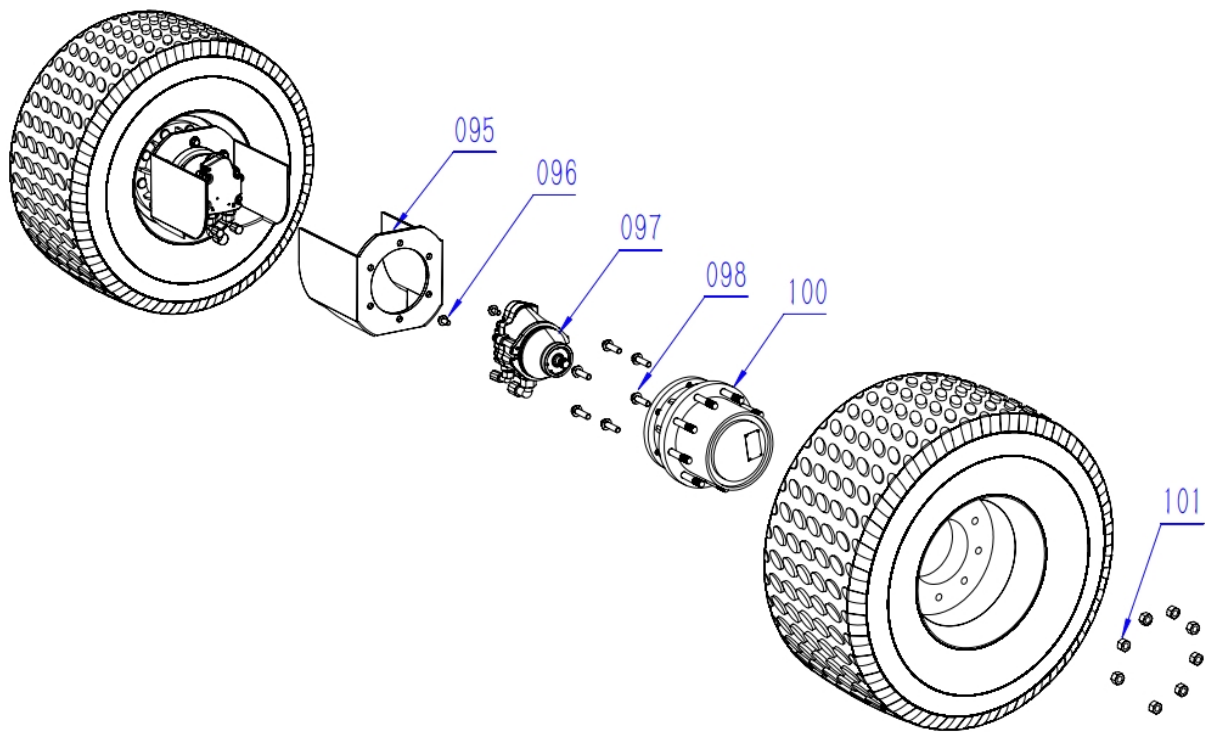


Item	Part No.	Description	Qty.	Serial Numbers/Notes
064	N36-3945	Mounting bracket	1	
065	N60-4882	Guard plate	2	
066	N78-1637	Fixed ring band	4	
067	N97-4477	Nuts	4	
068	N97-6887	Water tank	1	
069	N99-8809	Debris basket	1	
070	N76-4465	Water tank cover assembly	1	
071	N52-0551	Bolts	4	

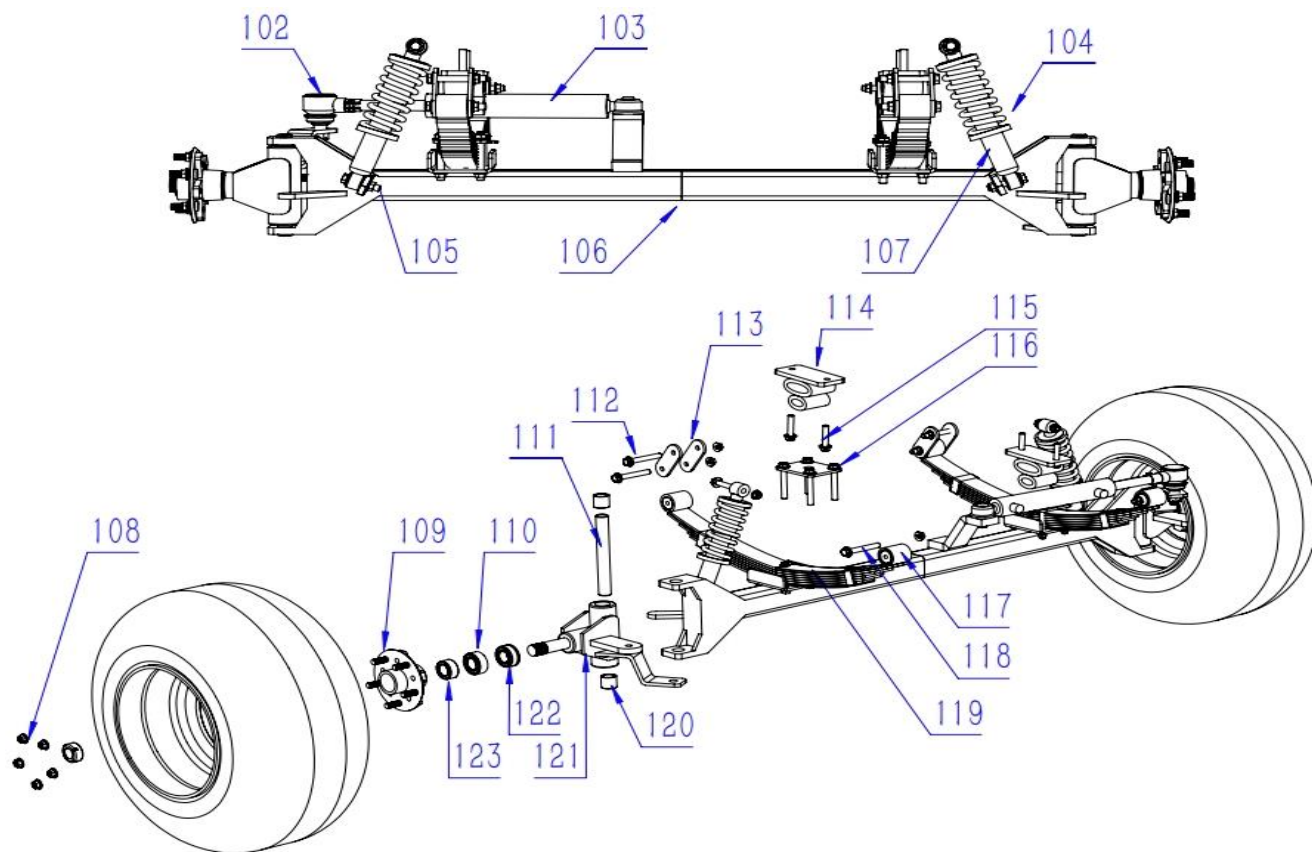


Item	Part No.	Description	Qty.	Serial Numbers/Notes
072	N66-2773	Base plate	1	
073	N86-7215	Bracket	2	
074	N90-7857	Connector	2	
075	N66-1849	Arm connector	2	
076	N97-6112	Spray boom support frame (R)	1	
077	N65-4942	Connector	1	
078	N93-5233	Arm base frame	1	
079	N36-0690	Spray boom support frame (L)	1	
080	N68-6671	Connector	2	
081	N96-2581	Water pump mounting bracket	1	

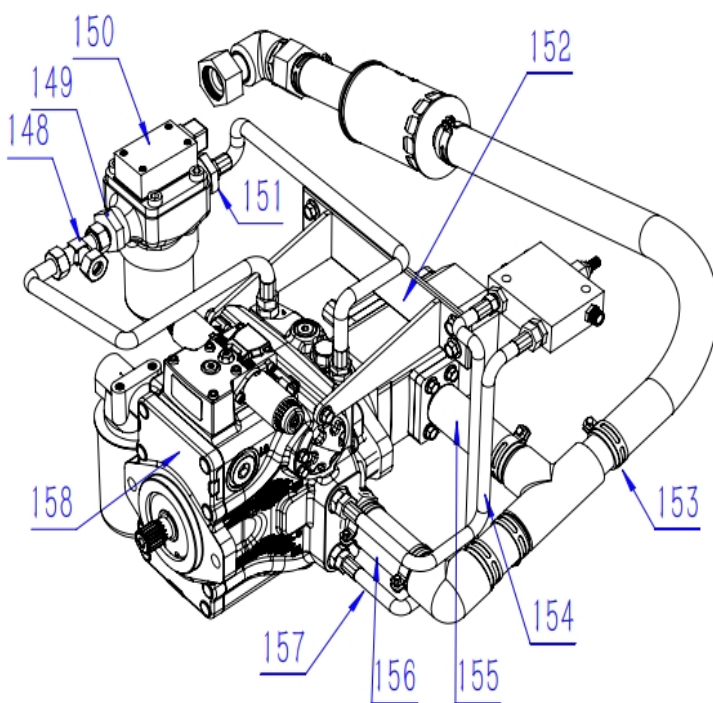
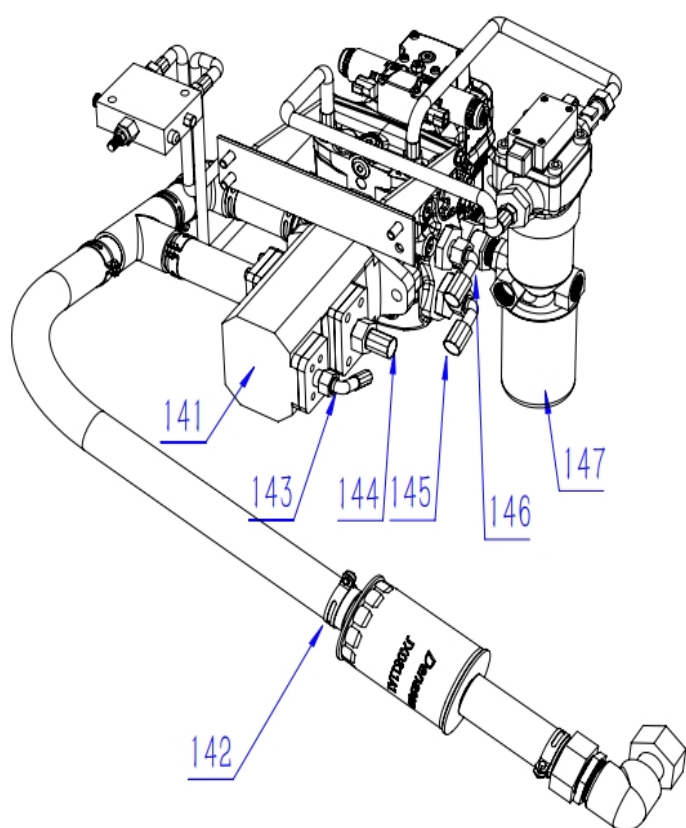
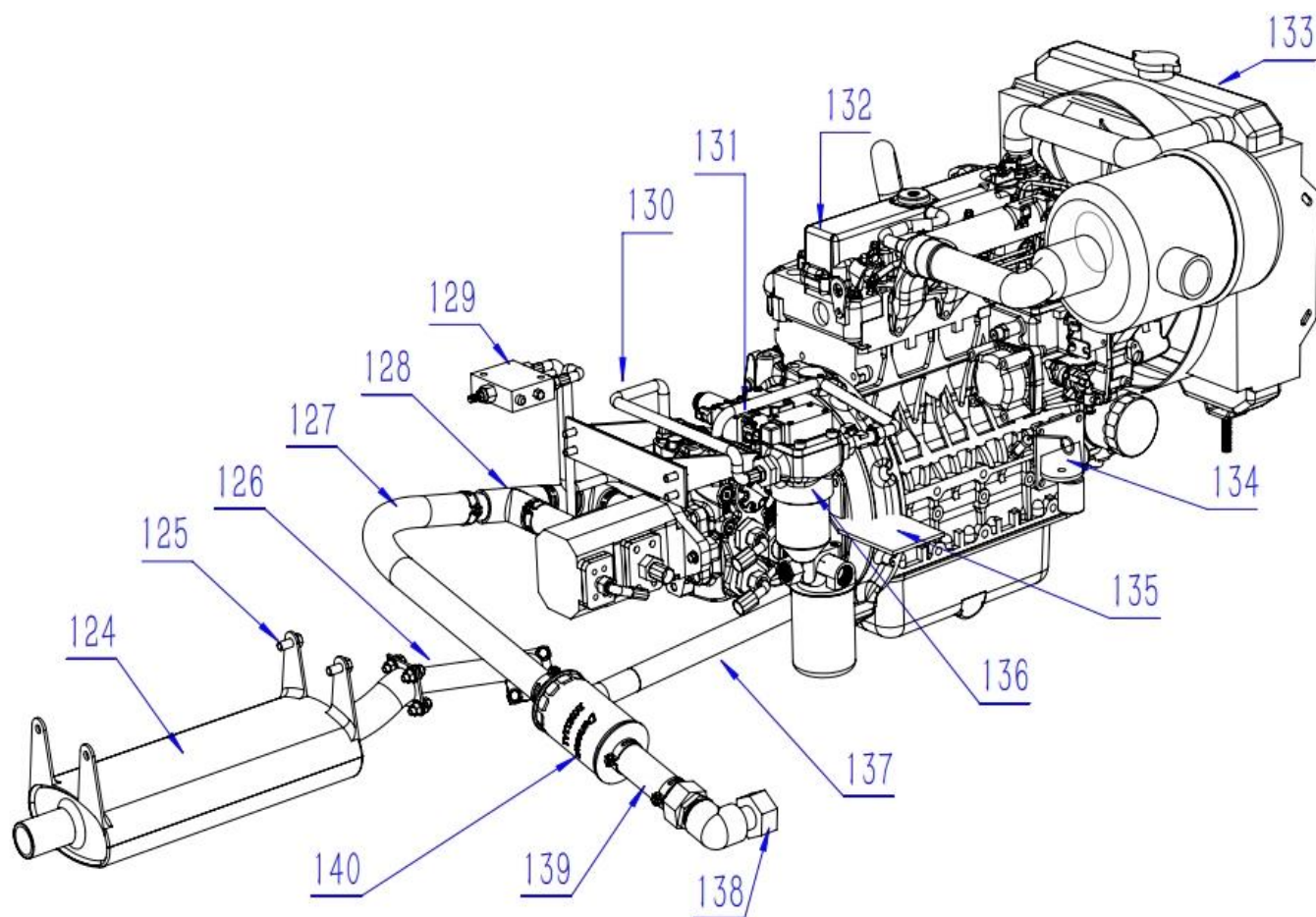




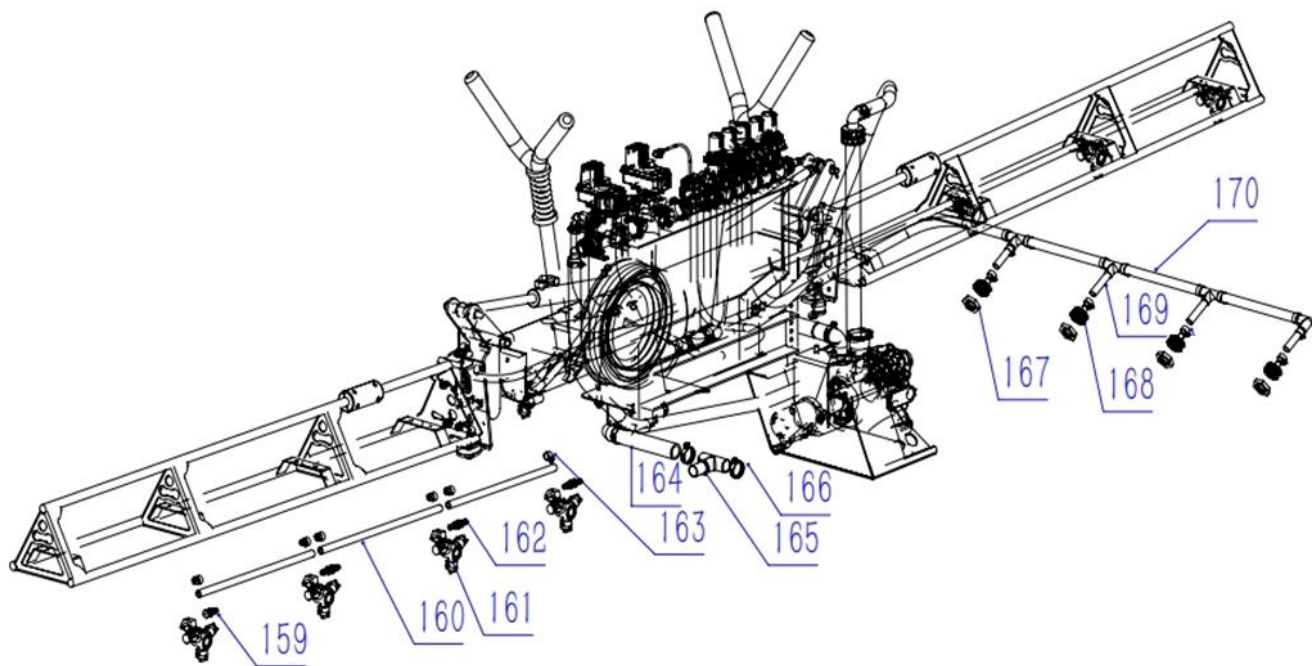
Item	Part No.	Description	Qty.	Serial Numbers/Notes
082	N15-9771	Pedal	1	
083	N10-1925	Fuel tank bracket	1	
084	N60-5047	Shock absorber	4	
085	N25-8633	Pedal accessories	1	
086	N32-7732	Front bumper	1	
087	N96-4336	Pin	1	
088	N76-1633	Frame	1	
089	N96-6628	Guard plate	1	
090	N87-8641	Connector	1	
091	N80-8205	Nut	1	
092	N75-5128	Battery base	1	
093	N97-4602	Support base	1	
094	N99-5049	Hydraulic tank bracket	1	
095	N68-3317	Travel motor mounting base	2	
096	N80-4272	Bolt	12	
097	N95-4930	Travel motor	1	
098	N62-4837	Bolt	6	
099	N25-7397			
100	N68-8723	Reduction gearbox	2	
101	N78-3425	Nut	16	



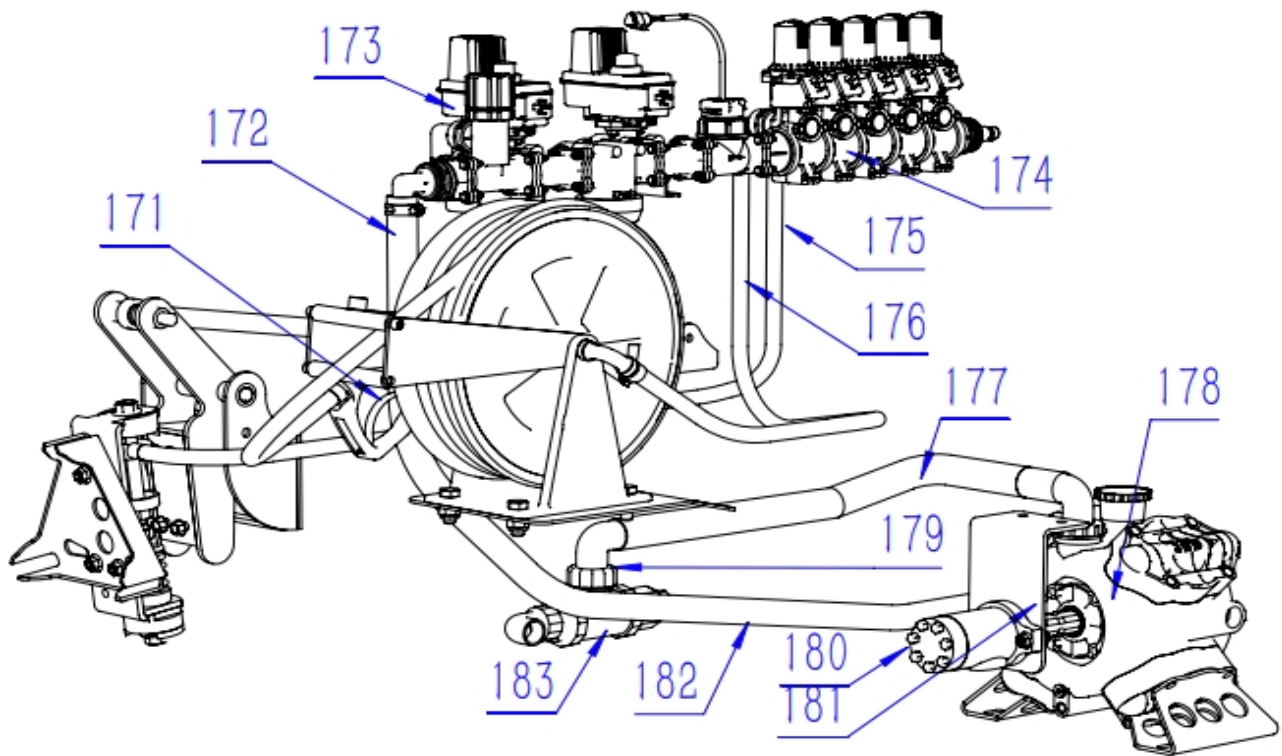
Item	Part No.	Description	Qty.	Serial Numbers/Notes
102	N86-7875	Tie rod ball head	2	
103	N10-3627	Steering cylinder	1	
104	N95-2632	Shock absorber spring	4	
105	N93-6088	Screw	8	
106	N32-9040	Steering axle	1	
107	N85-3511	Shock absorber	4	
108	N36-0600	Nut	12	
109	N96-8698	Flange	2	
110	N82-6823	Bearing	2	
111	N78-7907	Vertical shaft	2	
112	N66-6286	Bolt	2	
113	N76-2491	Support frame	2	
114	N72-7879	Shock absorber pad	2	
115	N82-5203	Bolt	4	
116	N57-4617	Spring plate locator	4	
117	N32-8971	Nylon sleeve	4	
118	N62-4129	Through pin	8	
119	N15-8082	Spring plate	2	
120	N82-6175	Nut	4	
121	N62-7081	Claw shaft	2	
122	N52-1298	Oil seal	2	
123	N60-3526	Bearing	2	



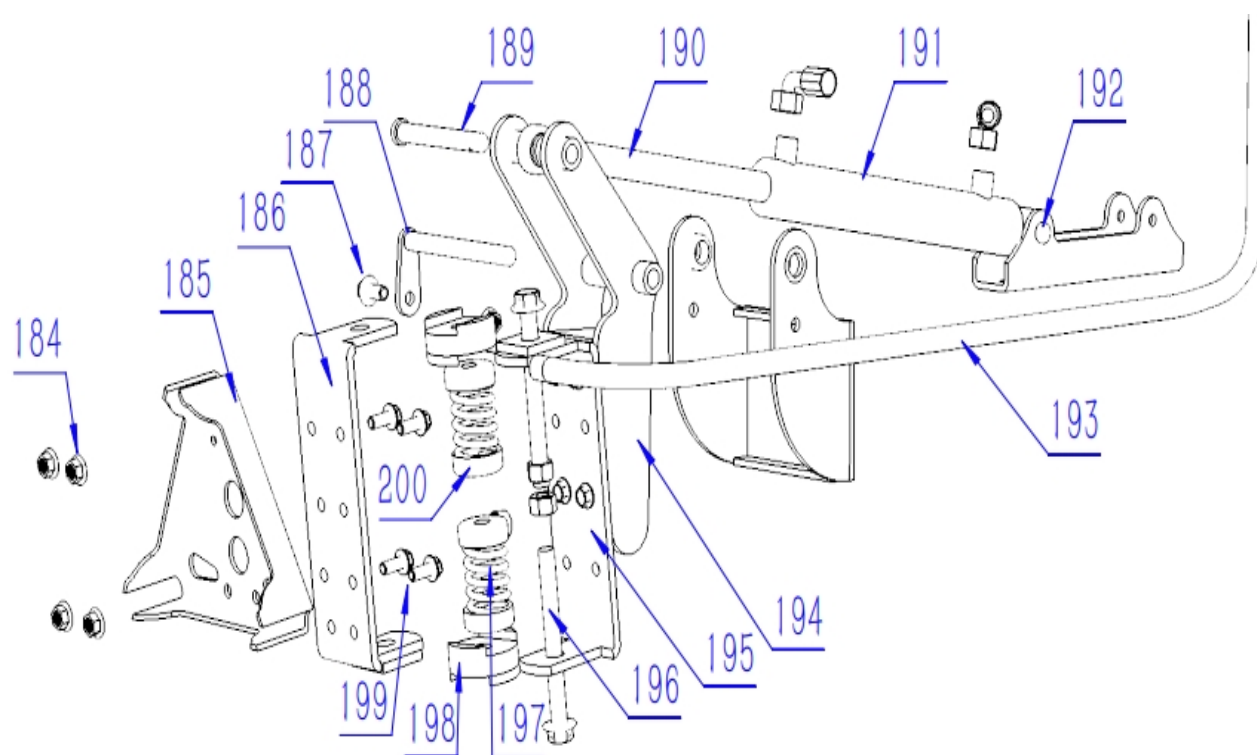
Item	Part No.	Description	Qty.	Serial Numbers/Notes
124	N96-8779	Muffler	1	
125	N93-3997	bolt	4	
126	N95-8698	exhaust pipe	1	
127	N88-9688	hydraulic oil pipe	1	
128	N62-5644	tee	1	
129	N72-4006	cleaning valve group	1	
130	N87-2707	hydraulic oil pipe	1	
131	N57-5133	hydraulic oil pipe		
132	N10-1415	engine	1	
133	N93-8956	radiator	1	
134	N95-9256	bracket	1	
135	N86-4467	bracket		
136	N97-8912	high pressure filter	1	
137	N15-2325	hydraulic oil pipe		
138	N10-1335	hydraulic oil pipe joint	1	
139	N78-2966	hydraulic oil pipe	1	
140	N96-5275	hydraulic oil filter		
141	N32-4705	gear pump	1	
142	N52-3248	clamp	2	
143	N52-9185	adjust hydraulic joint	1	
144	N52-5825	adjust hydraulic joint	1	
145	N78-2024	adjust hydraulic joint	1	
146	N15-9081	adjust hydraulic joint	1	
147	N96-2713	hydraulic oil filter	1	
148	N25-3740	oil pipe joint	1	
149	N90-9691	hydraulic pipe joint	1	
150	N76-4300	low pressure alarm	1	
151	N95-2776	hydraulic pipe joint	1	
152	N85-5611	bracket	1	
153	N32-6511	clamp	3	
154	N60-6475	hydraulic oil pipe	1	
155	N15-3003	hydraulic oil pipe	1	
156	N87-5161	hydraulic oil pipe	1	
157	N99-5449	hydraulic oil master pump	1	
158	N25-5291	Muffler	1	



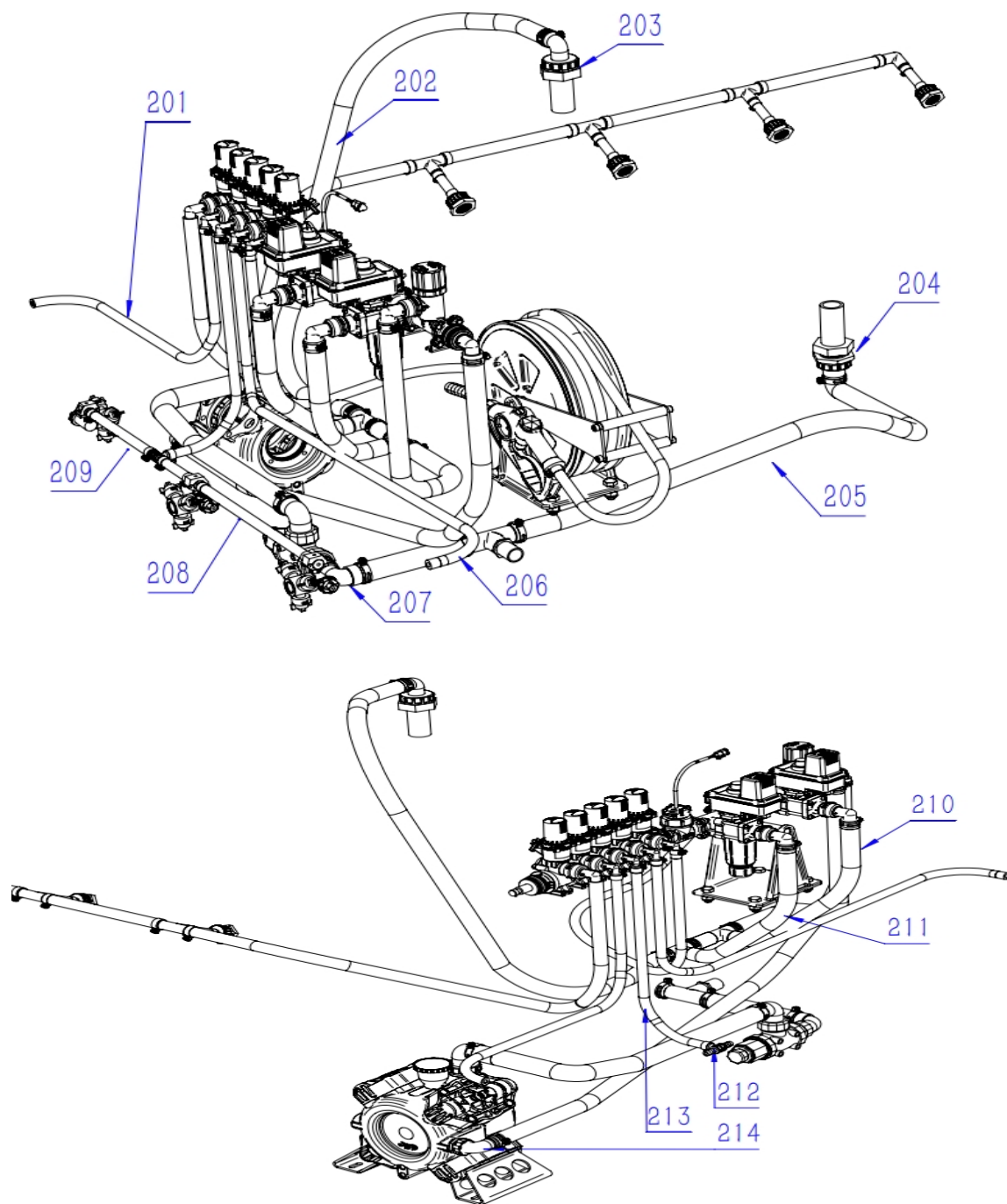
Item	Part No.	Description	Qty.	Serial Numbers/Notes
159	N52-5777	Connector	3	
160	N65-2698	Water pipe	8	
161	N52-5504	Sprayer	11	
162	N78-4217	Connector	8	
163	N96-5632	Clamp	16	
164	N72-9568	Water pipe	1	
165	N32-2533	Tee	1	
166	N60-3646	Pipe clamp	2	
167	N93-2470	Rubber pad	6	
168	N62-7426	Fix nut	3	
169	N36-8511	Connector	3	
170	N78-6704	Water pipe	3	



Item	Part No.	Description	Qty.	Serial Numbers/Notes
171	N93-6214	Hose reel	1	
172	N60-2626	Water inlet pipe	1	
173	N78-3686	Solenoid valve	1	
174	N90-7885	Water distributor assembly	1	
175	N36-5289	Water pipe	1	
176	N90-9325	Water pipe	1	
177	N66-4072	Water inlet pipe	1	
178	N86-8169	Water pump	1	
179	N88-2227	Elbow	1	
180	N15-5652	Hydraulic motor	1	
181	N90-3439	Motor bracket	1	
182	N75-5707	Water pipe	1	
183	N96-3202	Filter	1	

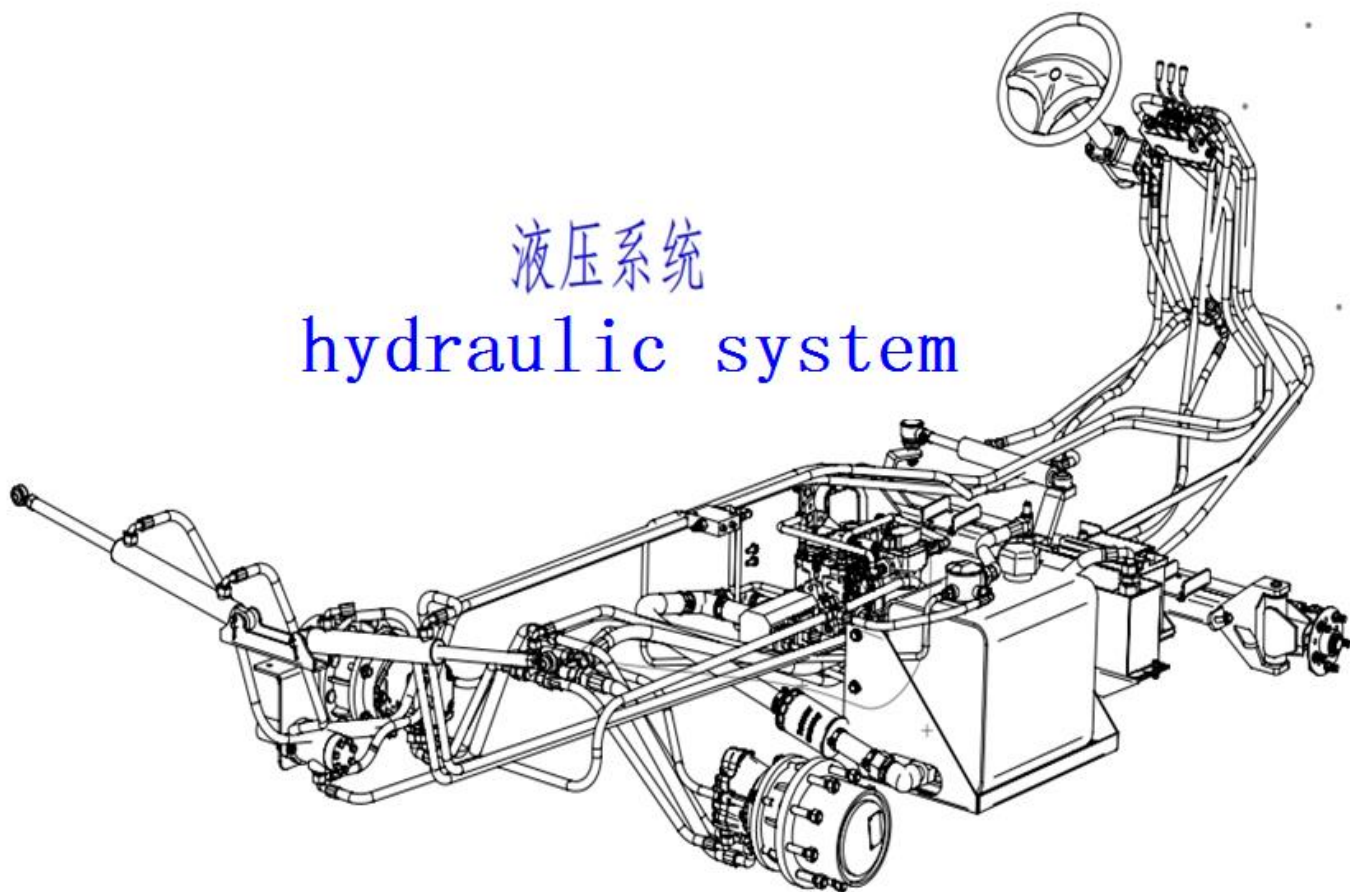


Item	Part No.	Description	Qty.	Serial Numbers/Notes
184	N90-4101	Nut	4	
185	N32-6580	Bracket	2	
186	N25-4586	Bracket	2	
187	N78-5771	Bolt	2	
188	N36-2307	Connecting shaft	2	
189	N86-6936	Fix pin	2	
190	N36-5589	Lifting rod	2	
191	N85-6523	Cylinder	2	
192	N62-1072	Through pin	12	
194	N75-7972	Boom connecting frame	2	
195	N86-6753	Fix plate	2	
196	N62-2371	Bolt		
197	N75-6319	Spring	4	
198	N96-1261	Locator	2	
200	N78-8072	Buffer pad	4	



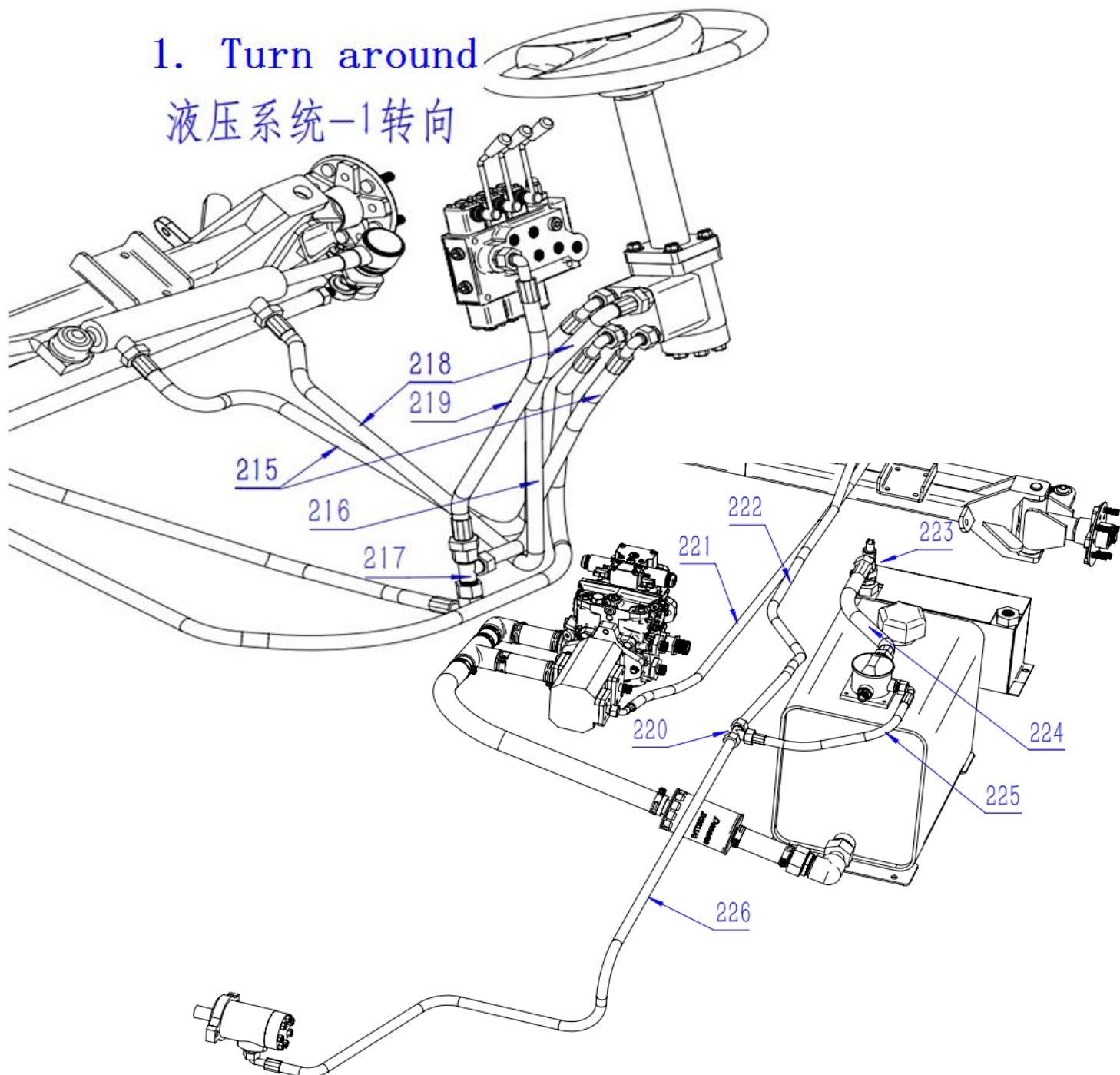
Item	Part No.	Description	Qty.	Serial Numbers/Notes
201	N65-1552	Water pipe	1	
202	N87-3037	Water inlet pipe	1	
203	N87-8512	Filter	1	
204	N88-7243	Connector	1	
205	N60-3775	Water pipe	1	
206	N36-8334	Water pipe	1	
207	N57-2973	Elbow	1	
208	N99-5261	Connecting water pipe	1	
209	N72-2989	Connecting water pipe	1	
210	N25-8450	Water pipe	1	
211	N96-4267	Water pipe	1	
212	N90-2041	Joint	1	
213	N88-1852	Water pipe	1	
214	N85-9520	Water pump bracket	1	

液压系统
hydraulic system

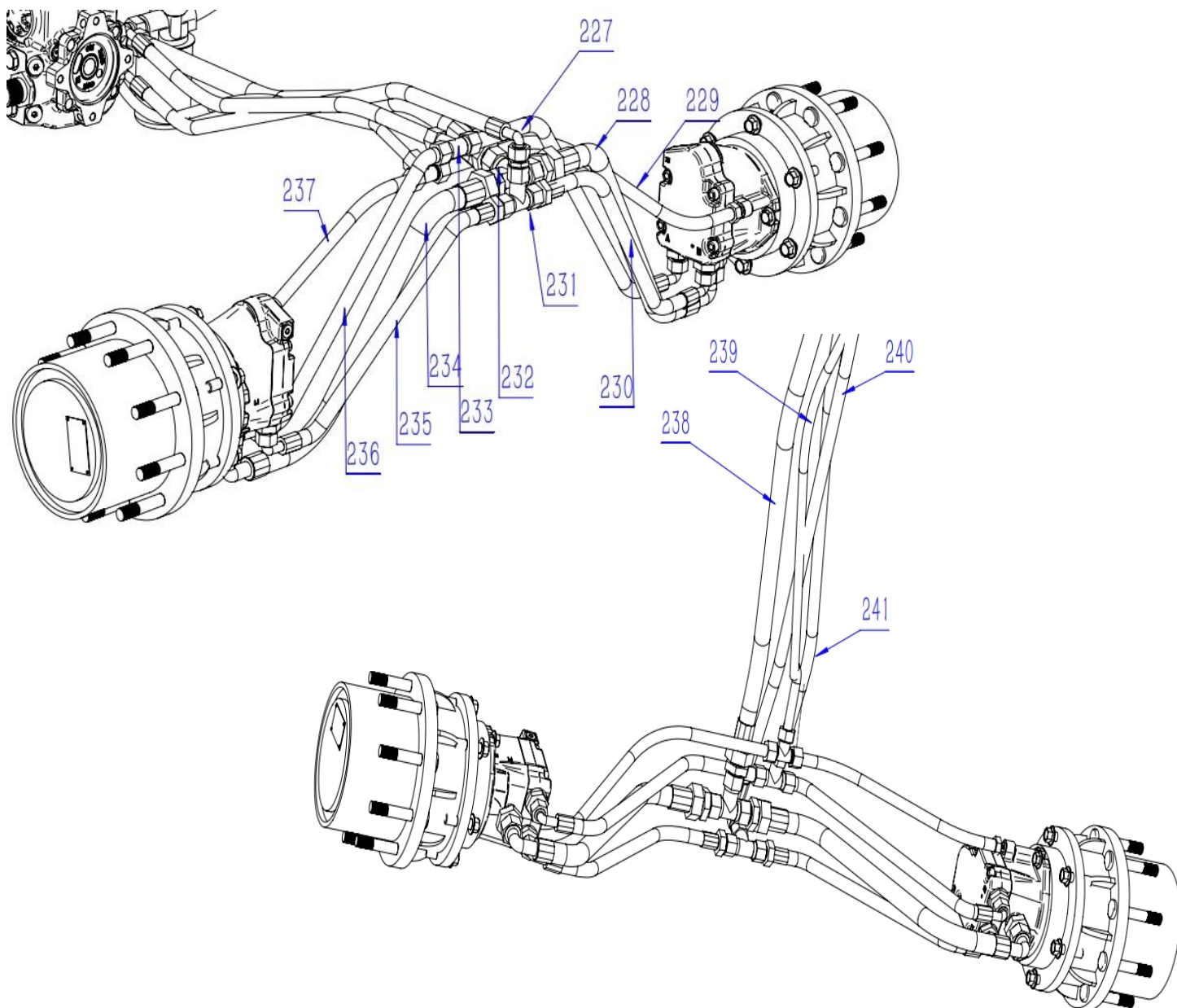


1. Turn around

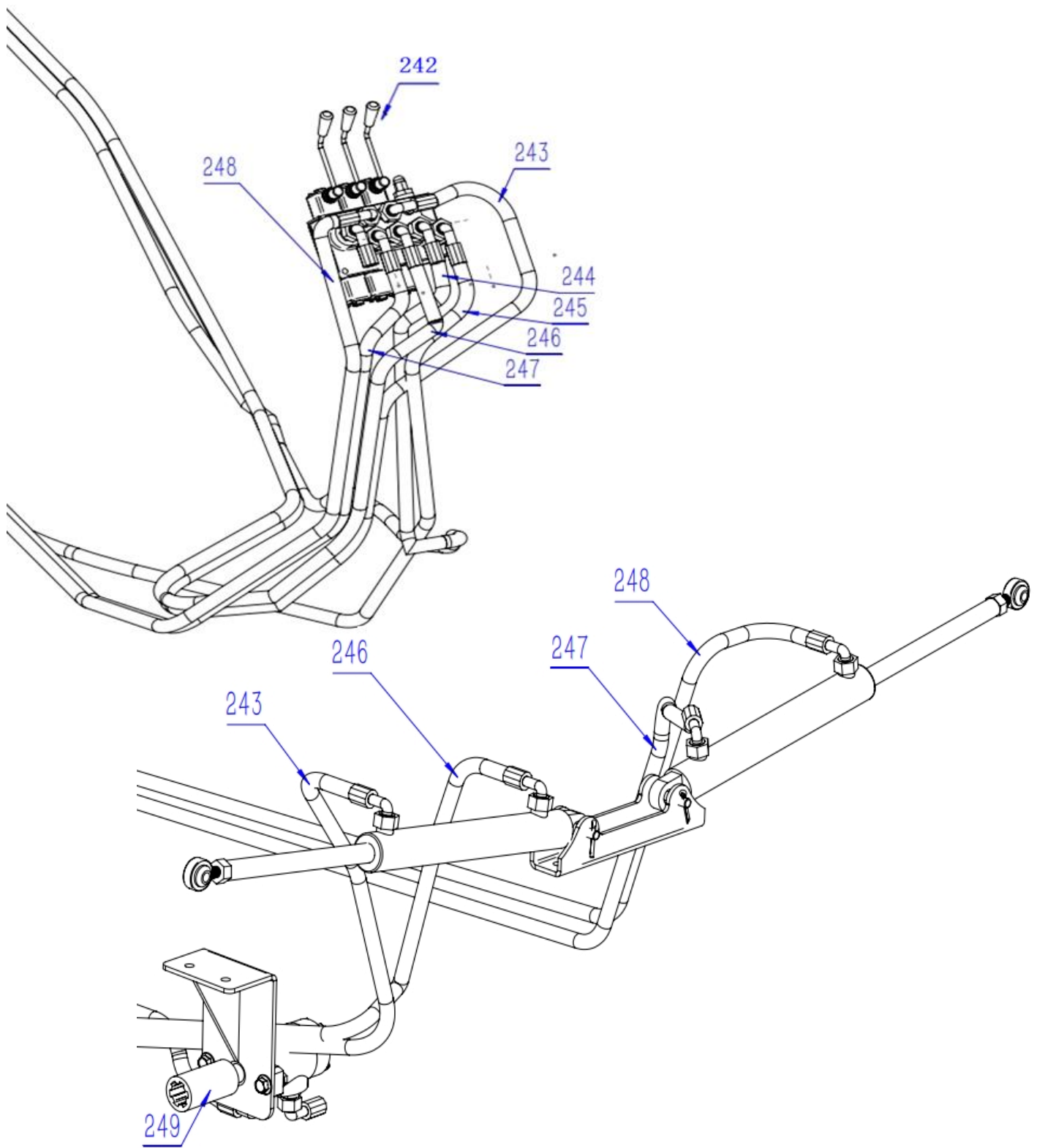
液压系统-1转向



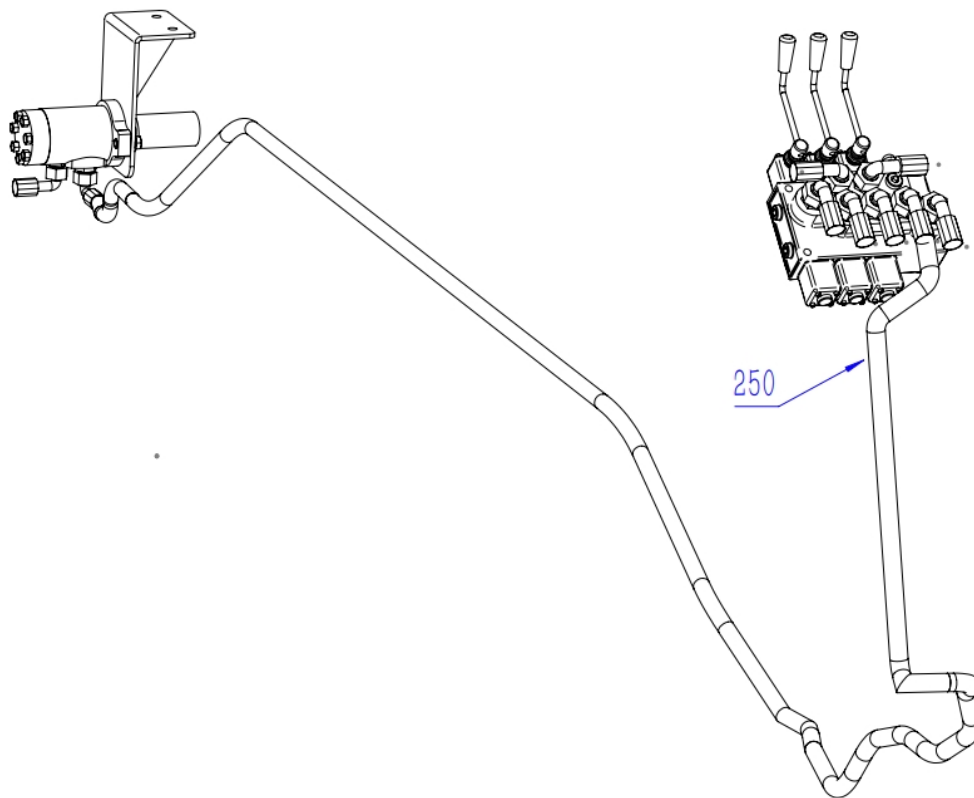
Item	Part No.	Description	Qty.	Serial Numbers/Notes
215	N52-1001	Hydraulic tubing	1	
216	N90-8019	Hydraulic tubing	1	
217	N87-2563	Connector	1	
218	N62-4735	Oil pipe joint	1	
219	N72-6301	Hydraulic tubing	1	
220	N78-7250	Connector	1	
221	N25-4511	Hydraulic tubing	1	
222	N76-6745	Hydraulic tubing	1	
223	N88-5125	Connector	1	
224	N52-0932	Hydraulic tubing	1	
225	N52-8519	Hydraulic tubing	1	
226	N75-6433	Hydraulic tubing	1	



Item	Part No.	Description	Qty.	Serial Numbers/Notes
227	N10-9167	Hydraulic tubing	1	
228	N90-7265	Hydraulic tubing	1	
229	N95-9244	Hydraulic tubing	1	
230	N80-2844	Hydraulic tubing	1	
231	N85-3550	Connector	1	
232	N32-8893	Connector	1	
233	N36-8244	Hydraulic tubing	1	
234	N75-5539	Hydraulic tubing	1	
235	N76-6472	Hydraulic tubing	1	
236	N15-8367	Hydraulic tubing	1	
237	N86-4641	Hydraulic tubing	1	
238	N82-8173	Hydraulic tubing	1	
239	N85-5308	Hydraulic tubing	1	
240	N72-8599	Hydraulic tubing	1	
241	N78-8246	Hydraulic tubing	1	



Item	Part No.	Description	Qty.	Serial Numbers/Notes
242	N87-9799	Operating handle	3	
243	N68-8222	Hydraulic tubing	1	
244	N15-6078	Hydraulic tubing	1	
245	N78-1898	Hydraulic tubing	1	
246	N80-5439	Hydraulic tubing	1	
247	N75-1363	Hydraulic tubing	1	
248	N82-5290	Hydraulic tubing	1	
249	N57-9606	Hydraulic tubing	1	



Item	Part No.	Description	Qty.	Serial Numbers/Notes
250	N25-9299	Hydraulic tubing	1	



TeeJet Technologies (Ningbo) Co., Ltd.

TLC20 Controller



User Manual

TLC20 Controller

User Manual

POWER

Power on

1. Press the left button on the top of controller.
2. The green button will be illuminated, the screen will display mode selecting button after initialization flash in 3seconds.
3. Click the mode selecting button and select “easy mode” or “standard mode”.

If select the “easy mode” , users don’ t need to select the nozzle type, and there is only “auto mode” .

If select the “standard mode” , users need to select nozzle type, and there are “manual mode” and “auto mode” in main page.

4. After selecting the work mode, press  to enter the main page.

Power off

1. Press the left button on the top of controller.

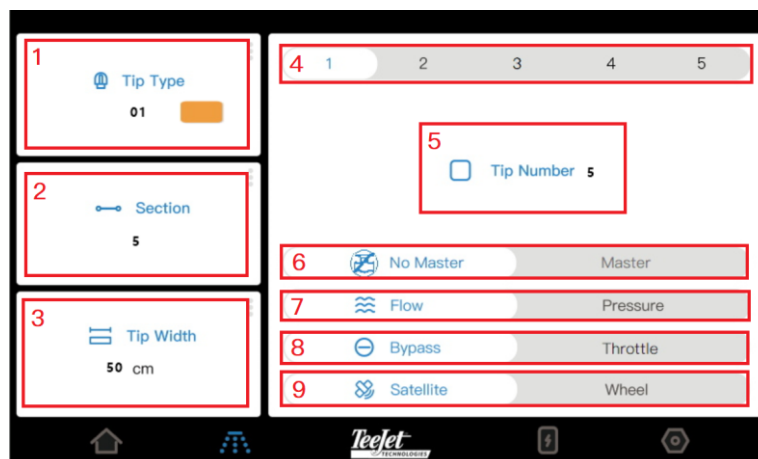
The button will pop up, and the screen will be extinguished.

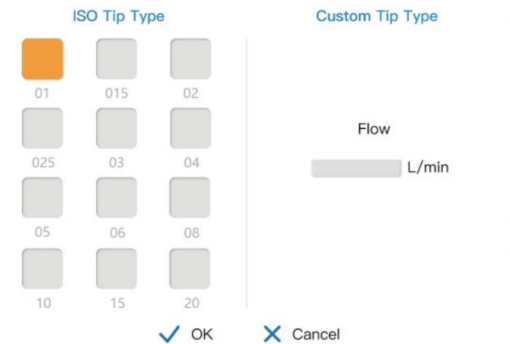
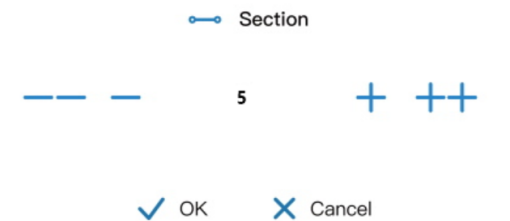
Note: You must switch off the spray (press the spray button on the top right of controller) before power off the controller, or data will be lost.

SYSTEM SETUP

Enter the System Setup Page

Press the second button  at the bottom of screen, input the password “2020”, and press the  OK to enter the system setup page, the picture below shows 9 touch areas.

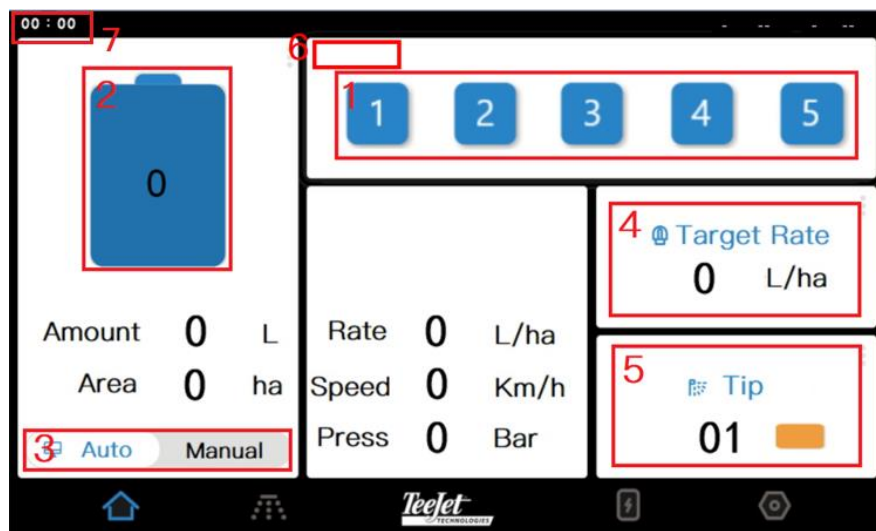


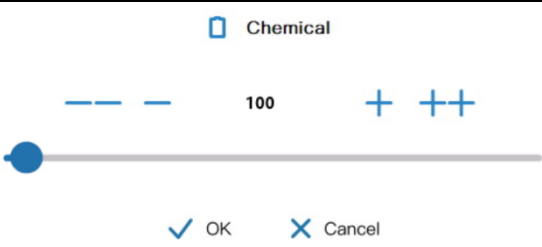
Step	Display	Description
Nozzle type		Press the area “1” to enter the nozzle selecting page, users can select IOS standard nozzles on the left column or input the customized nozzle flow rate on the right column. Press “OK” to finish setup. Default: 01
Section number		Press the area “2” to enter the section selection page, users must enter the actual section numbers of the tractor. Press “OK” to finish setup. Default: 5
Tip width		Press the area “3” to enter the tip width setup page, users must enter the actual tip width on the tractor. Press “OK” to finish setup. Default: 50
Tip number		Press the area “4” to do the tip number setup. Press the area “5” to enter the tip number. Press “OK” after finish setup. Default: 5
Master		Press the area “6” to select if there is a master valve installed. Default: No Master
Regulation mode		Press the area “7” to select regulation mode. If a flow sensor is installed, the system will use flow-based regulation, otherwise will use pressure-based regulation. Default: flow
Valve type		Press the area “8” to select the regulating valve installed in the system. Default: Throttle
Speed source		Press the area “9” to select the speed source. Default: Satellite

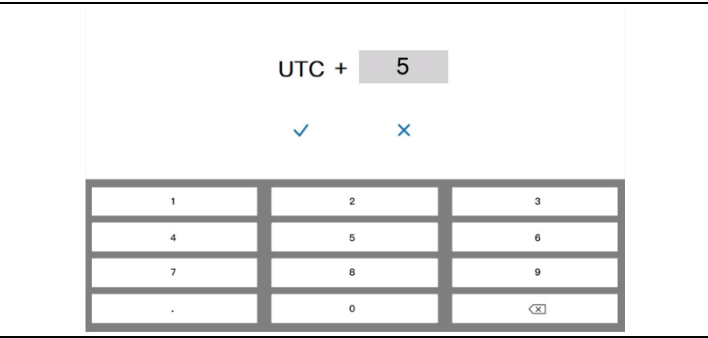
APPLICATION SETUP

Enter the Main Page

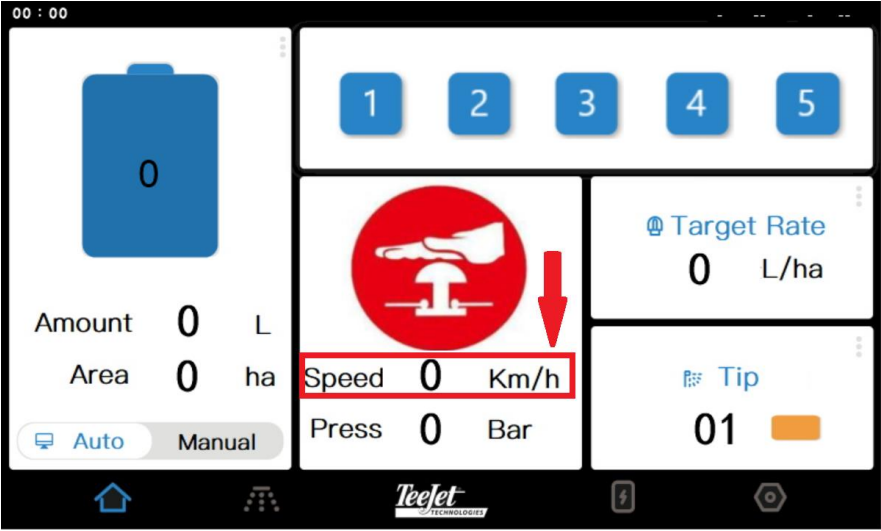
Press the first button  at the bottom of screen to enter the main page, turn on the spray button, picture below shows the “7” touch areas.



Step	Display	Description
Section valve		Press the area “1” to switch on/off the section valve accordingly. Default: off
Tank level		Press the area “2” to enter the tank level setup page, users can drag the slider or click on the number to enter the actual tank level. Press “OK” to finish setup. Default: 100
Manual/Auto Mode Setup		Press the area “3” to select auto/manual mode. System will regulate automatically in auto mode. Users can adjust the regulation valve manually in manual mode. The controller will remember the last pressure after turning on. Default: Auto
Target Rate		Press the area “4” to enter the target rate setup page. Users should set the target rate accordingly. Press “OK” to finish setup. Default: 220

Nozzle type		Press the area “5” to enter the nozzle selecting page, users can select IOS standard nozzles on the left column or input the customized nozzle flow rate on the right column. Press “OK” to finish setup. Default: 01
Display flow rate		Press the area “6” to display the flow rate (L/min). Press again to hide it.
UTC time		Press the area “7” to set the UTC time difference. If the UTC time difference is negative, use 24+the negative time difference. (e.g. If the time difference is “+5”, enter the value “5”. If the time difference is “-5”, enter the value “19”.)

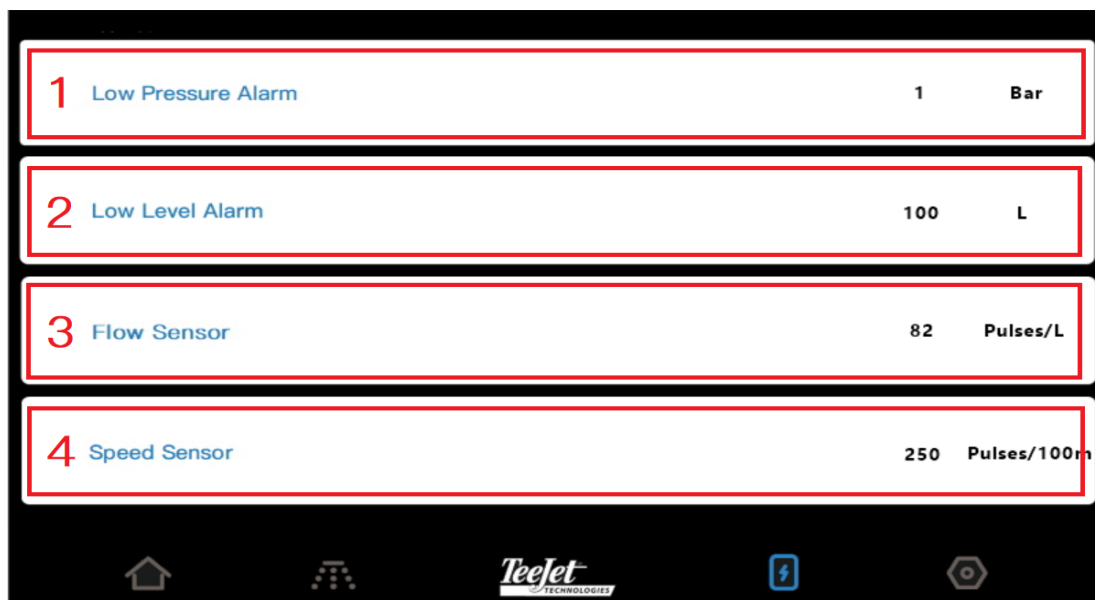
When the “spray button” is turned off, and the tip type and target rate is set. Press Speed 0 Km/h, input the speed, then the recommend pressure will appear.



ALARM AND SENSORS SETUP

Enter the Alarm and Sensors Setup Page

Press the third button  at the bottom of the screen to enter the alarm and sensors setup page. The picture below shows the 4 touch areas.

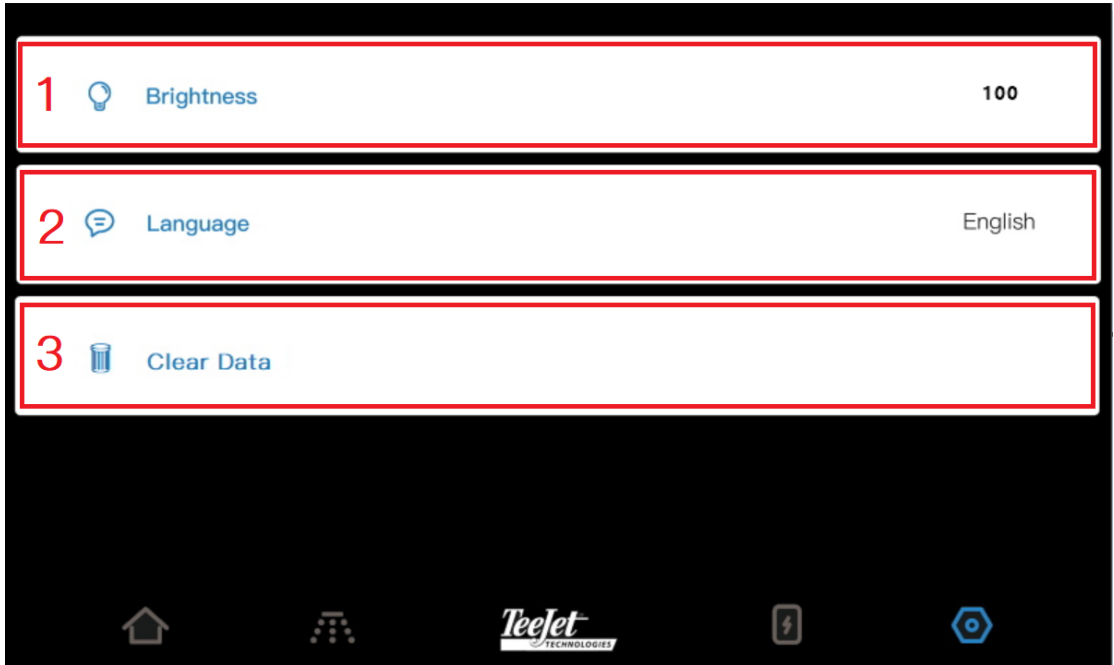


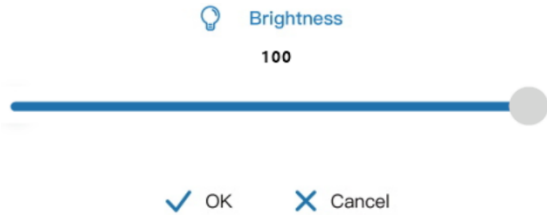
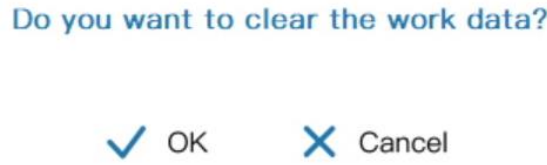
Step	Display	Description
Low pressure alarm	Low Pressure Alarm --- 1 + ++ ✓ OK ✗ Cancel	Press the area “1” to enter the low pressure alarm setup page. Press “OK” to finish setup. Default: 1
Low tank level alarm	Low Level Alarm --- 100 + ++ ✓ OK ✗ Cancel	Press the area “2” to enter the low tank level alarm setup page. Press “OK” to finish setup. Default: 100
Flow sensor	Flow Sensor --- 82 + ++ ✓ OK ✗ Cancel	Press the area “3” to enter the flow sensor setup page. The unit is the number of pulses per liter. Press “OK” to finish setup. Default: 82
Speed sensor	Speed Sensor --- 250 + ++ ✓ OK ✗ Cancel	Press the area “4” to enter speed sensor setup page. The unit is the number of pulses per 100 meters. Press “OK” to finish setup. Default: 250

OTHERS SETUP

Enter the Others Setup Page

Press the fourth button on the bottom of screen to enter the others setup page, the picture below shows the 3 touch areas.



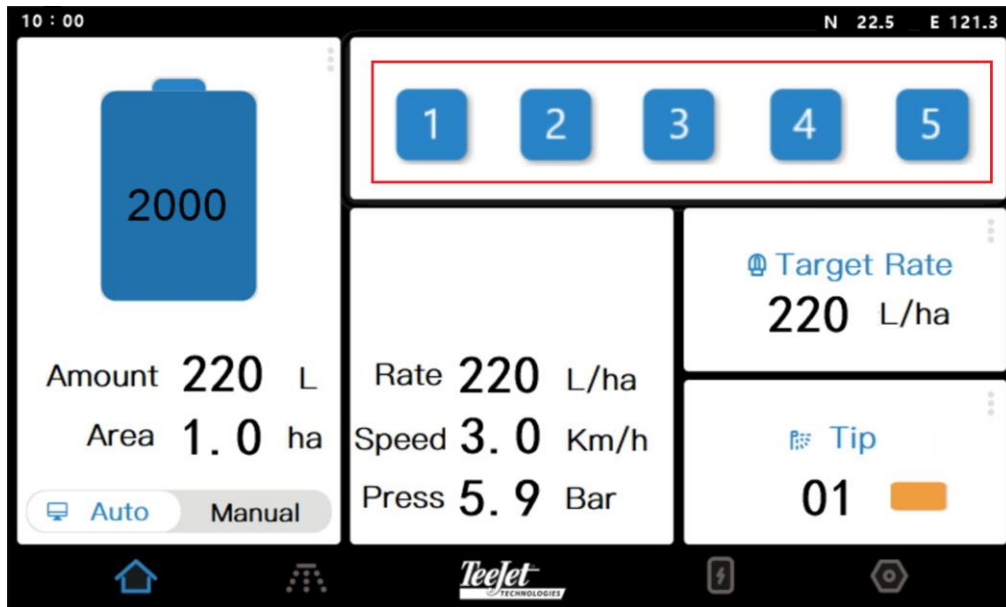
Step	Display	Description
Brightness		Press the area “1” to enter brightness setup page. Press “OK” to finish setup. Default: 70
Language		Press the area “2” to enter language setup page. Users can select “Chinese” or “English”. Press “OK” to finish setup. Default: Chinese
Clear work data		Press the area “3” to enter the work data clearance page. Press “OK” to clear the work data.

Operation

After all the settings, you can choose

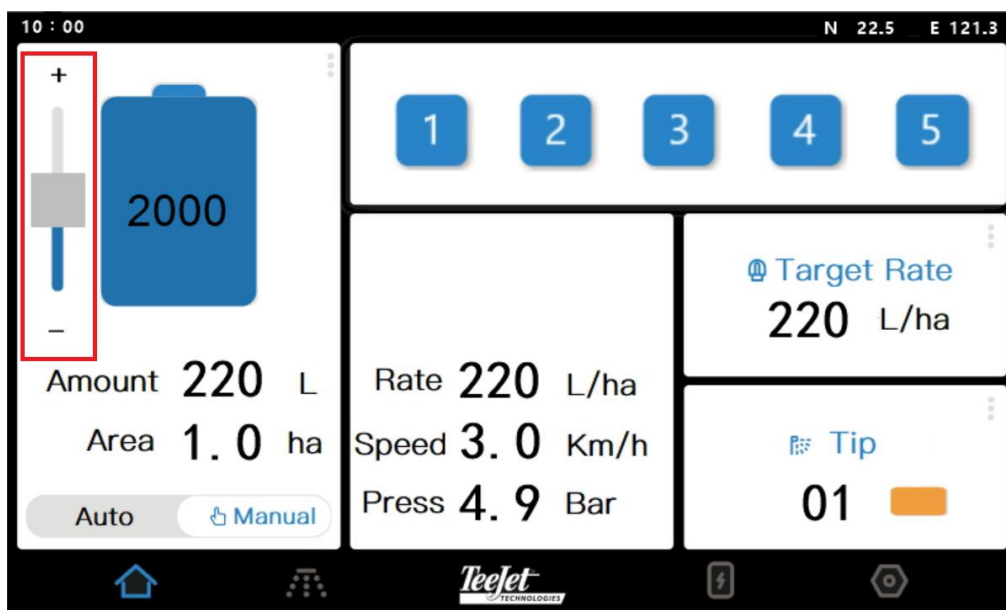
Auto mode:

Just press the red spray button on the top of the console, it will automatically adjust the valve according to the speed, and you can turn on/off the section valve by press the "1、2、3、4、5 section button". Remember it will stop spray when speed is 0.



Manual mode:

After pressing the red spray button on the top of the console, you need drag the slide on the left to increase/decrease the press to realize manual spray.



Equipment maintenance record

Maintenance items	Check the results		Maintenance status	Remark
	normal	Fault		

Shouguang Naco Garden Machinery Co., Ltd.

The pictures are for reference only. Please refer to the actual product. The contents and models published are subject to change without prior notice.



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