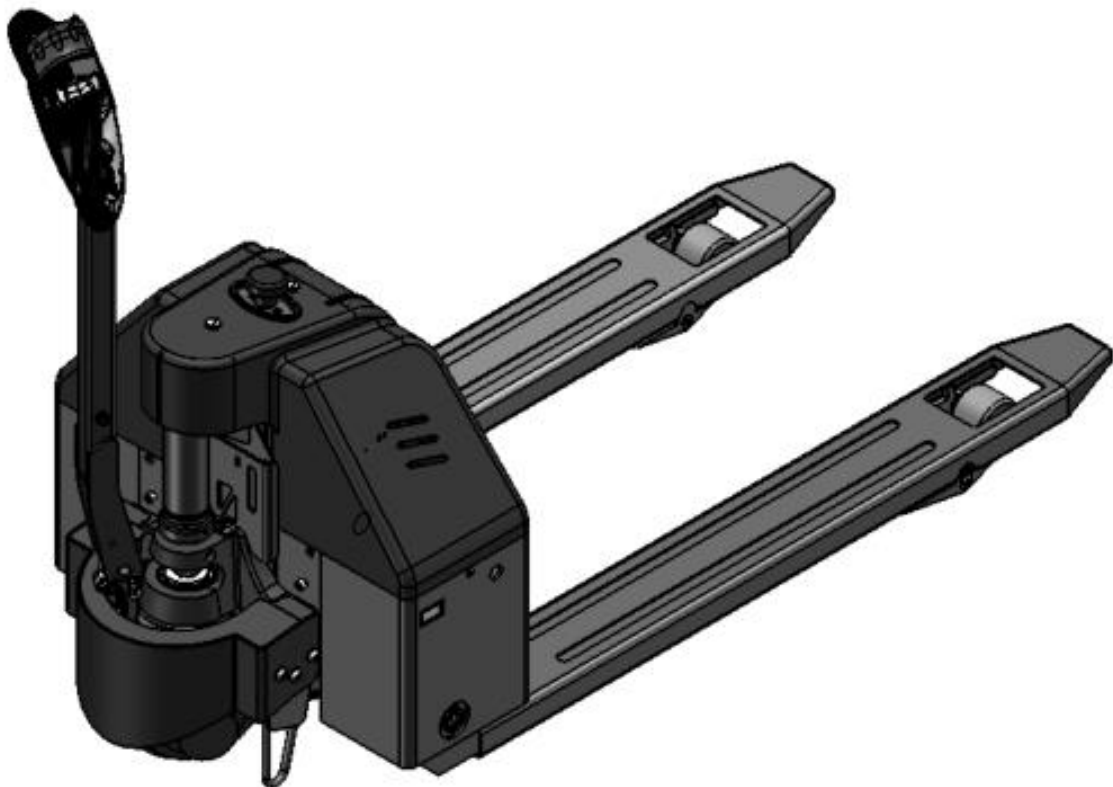


The Specification EP15J Series Electric Pallet

Note: Before using must read this manual and the various warning label!



EKKO Material Handling Equipment Manufacturing, Inc.

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The Main Technical Parameters of Electric Pallet Truck

Model	Unit	EP15J
Load capacity	(lbs)	3300
Overall fork width	(in)	22/27
Fork length	(in)	48
Single fork width	(in)	5.9
Lowered fork height	(in)	2.96
Max. lifting height	(in)	7.8
Overall length	(in)	63.9/66.7
Overall width	(in)	22/27
Overall height	(in)	48
Front wheel size, number		$\phi 3 \times 2.3$ 、 2
Driving wheel size, number		$\Phi 8.2 \times 2.7$ 、 1
Turing radius	(in)	53
Load center distance	(in)	23.6
Lift motor		24V/0.8KW
Drive motor		DC 24V/0.75KW
Battery voltage		2×12V/65AH
Service weight	(lbs)	506

1、 Introduction of the product

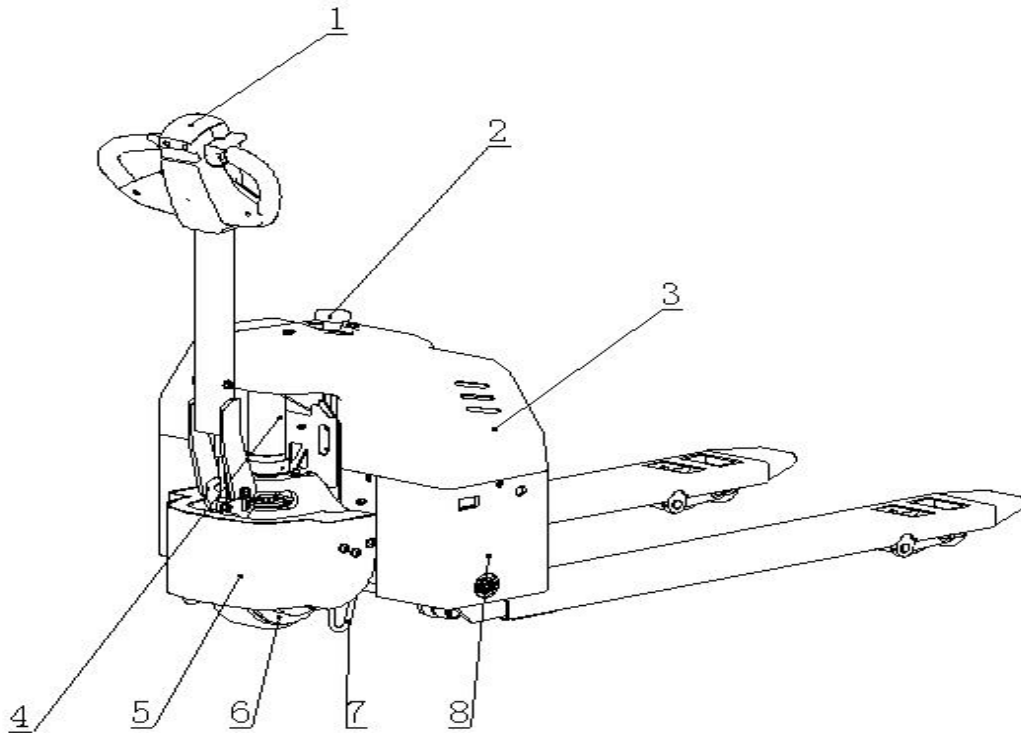
1.1. Instruction

This series truck is suitable for working on the smooth ground. Tray can be open type or with strip waling, also can be beyond bearing.

The environment temperature:5 °C to 40 °C

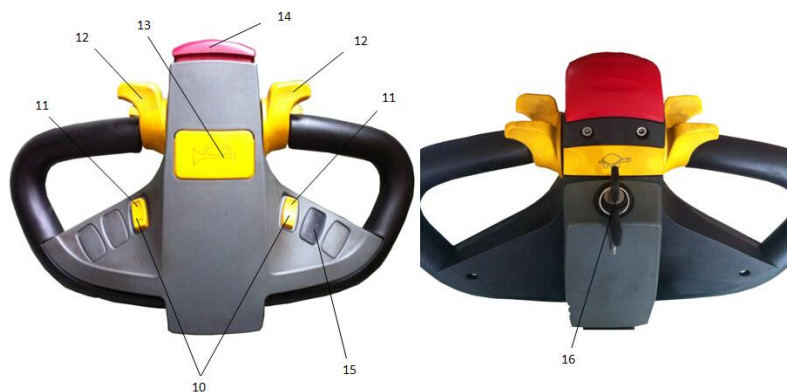
If long time in less than 5 °C environment such as cold store, or in the conditions of extreme temperature and humidity, must be extra special equipment installation, and obtain the permission of the manufacturer.

1.2. Vehicle components

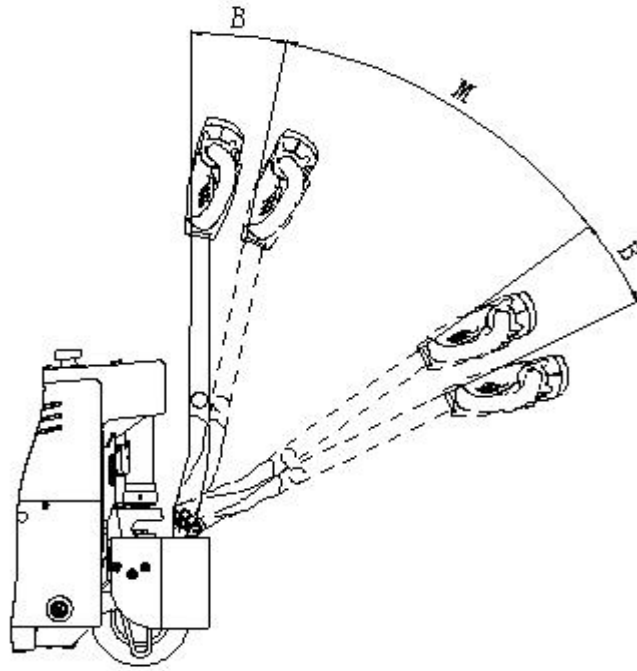


0	Name	NO	Name
1	The operating handle	5	Cover assembly
2	Emergency stop switch	6	Driving wheel
3	The top cover	7	Balance frame
4	Lifting oil cylinder	8	Frame

The operating handle



NO.	Name	NO.	Name
10	Down button	14	Protection button
11	Ascending button	15	Electricity meter
12	Travel switches	16	Key switch
13	Horn button		



1.3. Driving

The operating handle swing to the traveling area (M), the travel switch steering direction required (before or after). The rotation angle is big, the corresponding speed is also large.

1.4.Promote

Press the up button (11), until it reaches the required lifting height, loosen up buttons.

1.5.Drop

Press the down button (10), until the part load down to the bottom, loosen the down button.

Note: To avoid intermittent cylinder service life, each lifting hoisting avoid fork lift to the highest state.

1.6. According to the provisions of security parked van

If you need to leave the truck driver, even if the departure time is shortened, must also be in accordance with the provisions of the van parked in advance.

- hold down button (3), drop weight component download. All down the lower fork.
- press the emergency stop switch (1).
- key lock to rotate in place and take out the key.

Note!

Must always be required to park van. Ban will be handling car park on the slope.

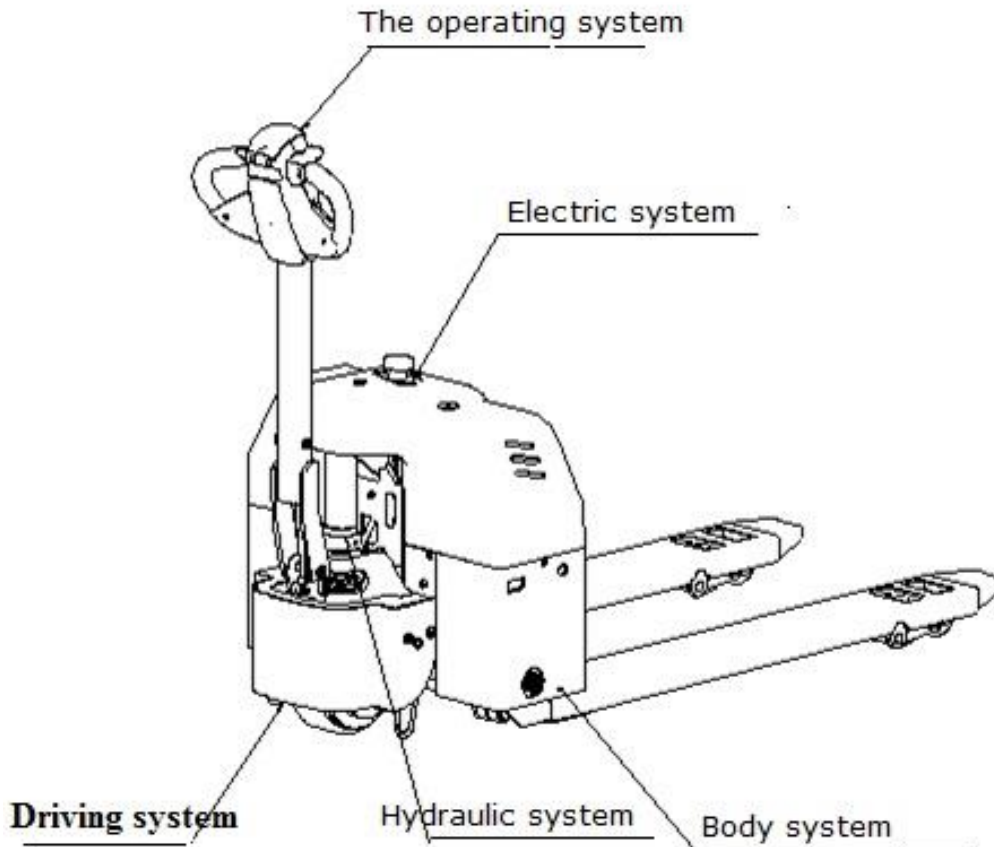
1.7. Failure to guide

This chapter is designed to help the user to determine and the exclusion of simple fault or cause because of operation error problem. Please press the sequence of operation in the table gradually inspection, to determine the cause of the failure of concrete.

Fault	The possible reason	The solution
Transport vehicle can not run	lock switch is in the closed position Battery power is low, Insurance: burn Porter in charge mode	will switch lock for the open position - check the battery charging condition, need to charge the battery Check the position of insurance Interrupt the charging process
Unable to upgrade the goods	Hydraulic oil level too low Overload	Check the hydraulic oil level At rated load (see note model name plate)

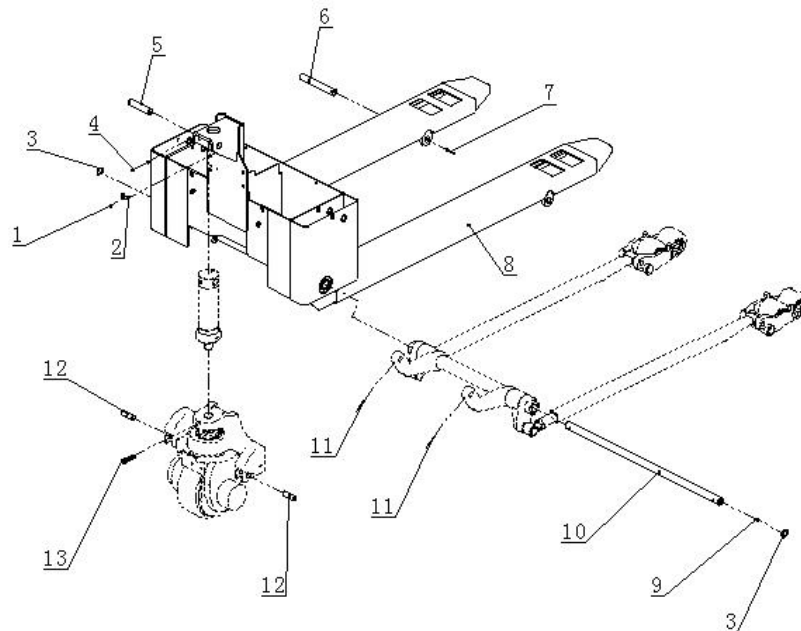
If the implementation of the "solution", all operations are listed in the following, still failed to troubleshoot, please contact our customer service department. Further to find and eliminate the faults must be operated by trained service personnel of customer service.

2: Introduction of the parts

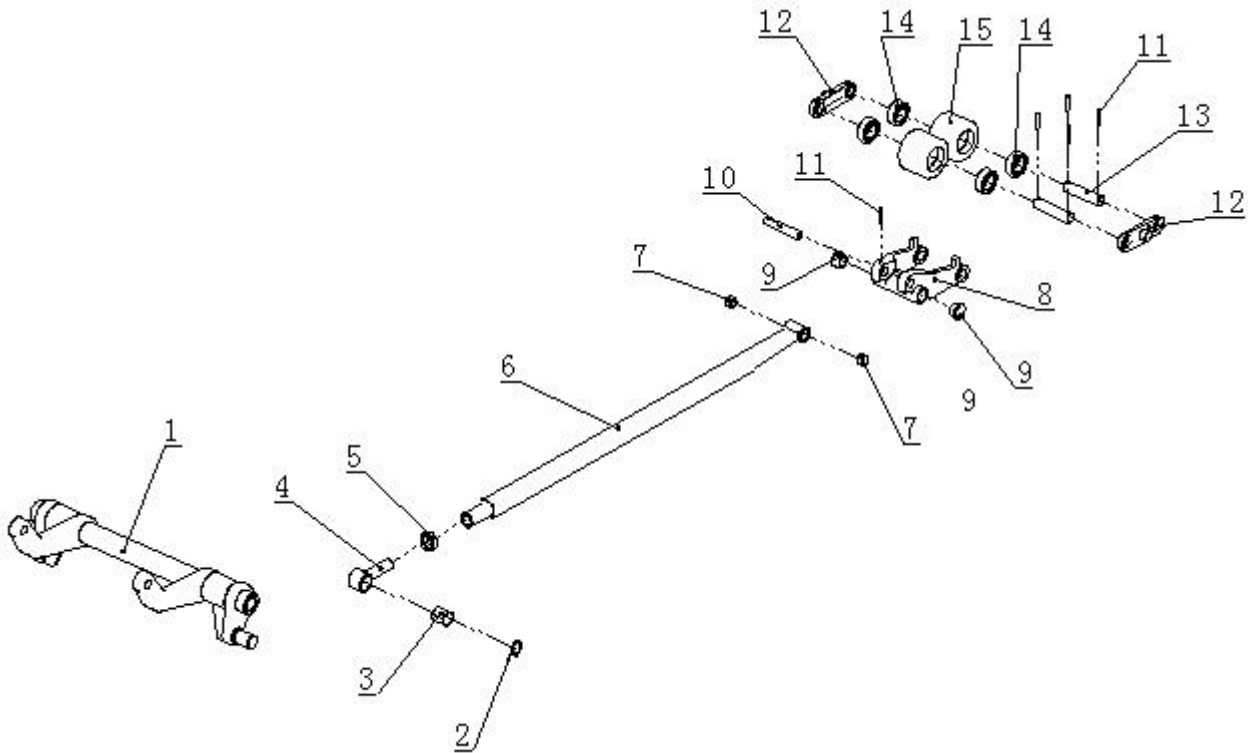


2.1. The body system

NO	Description	Qty	NO	Description	Qty
1	The lower connecting rod welding	1	9	Should composite sleeve $\Phi 0.8 \times \Phi 0.9 \times 0.59$	4
2	Cir clips for shaft $\Phi 1$	2	10	Push rod mounting shaft	2
3	Composite sleeve $\Phi 1 \times \Phi 1.1 \times 1.1$	2	11	The elastic cylindrical pin $\Phi \times 1.37$	10
4	Push after the set of welding	2	12	Double wins	4
5	Hexagon nut $M0.87 \times 0.06$	2	13	The bearing wheel pin shaft	4
6	Push rod welding	2	14	Bearing 6204	8
7	Composite sleeve $\Phi 0.63 \times \Phi 0.75 \times 0.5$	4	15	Ferry $\Phi 3.15 \times \Phi 2.36$	4
8	Wheel frame	1			

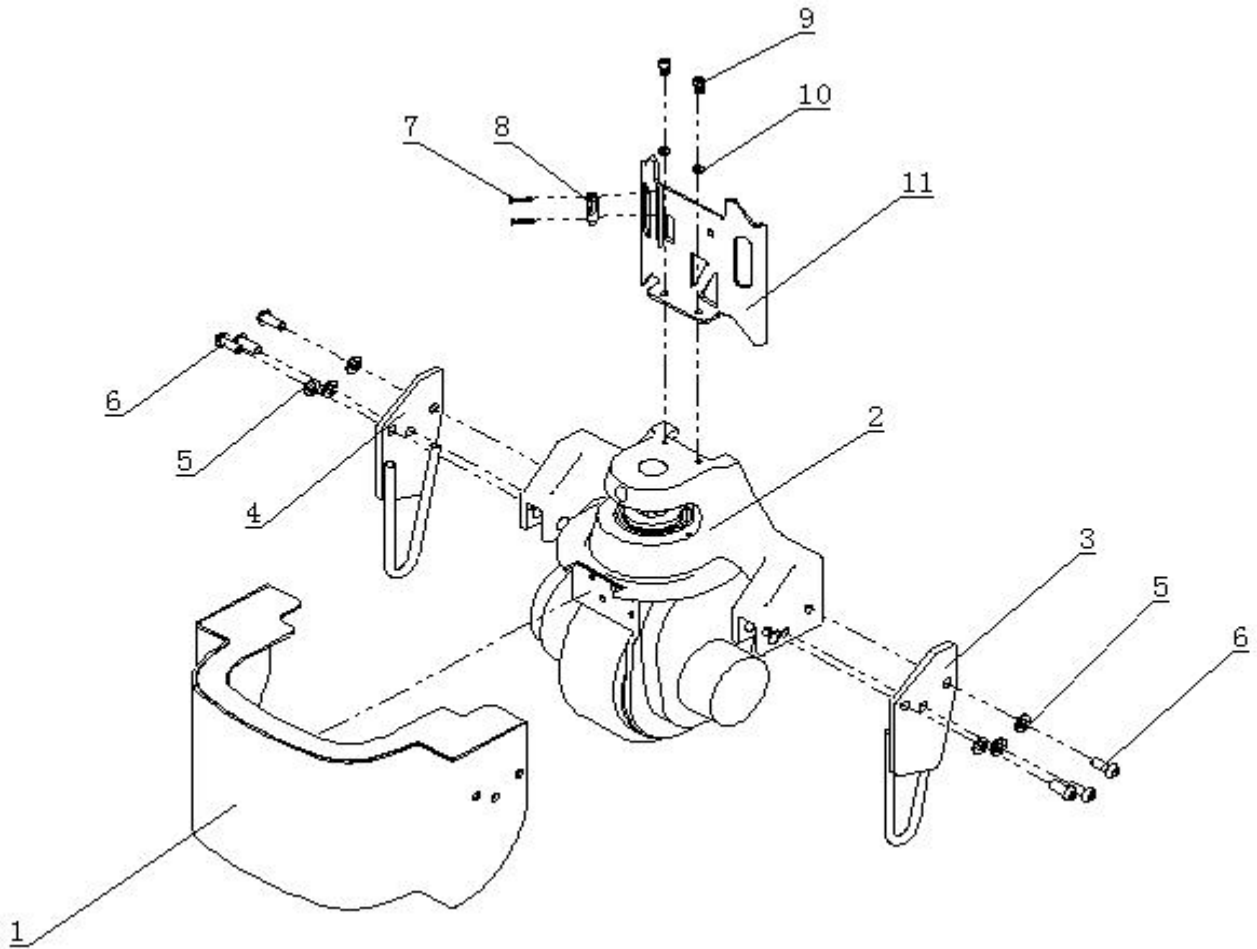


2.2 Connecting rod assembly



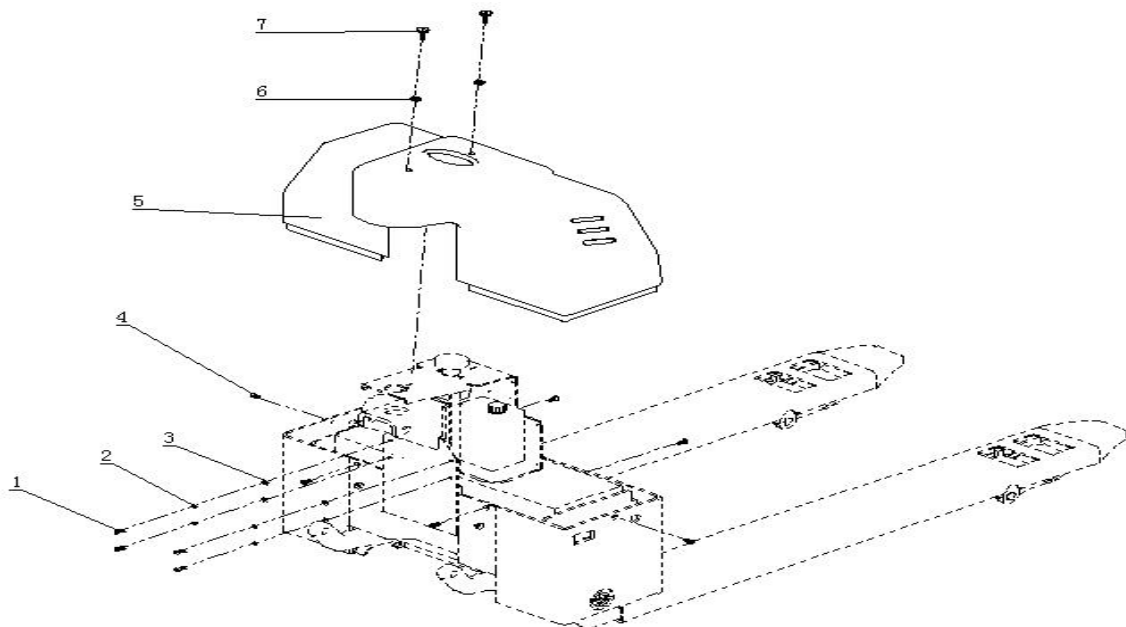
2.3 The drive housing assembly

NO.	Description	Qty	NO.	Description	Qty
1	The lower cover welding	1	7	Screw M0.11×0.8	2
2	The drive unit assembly	1	8	The micro switch	1
3	The right balance frame welding	1	9	Screw M0.23×0.5	2
4	The left balance frame welding	1	10	Flat gasket $\Phi 0.23$	
5	Flat gasket $\Phi 0.39$	6	11	The retaining plate	1
6	Screw M0.39×1	6			



2.4 Cover assembly

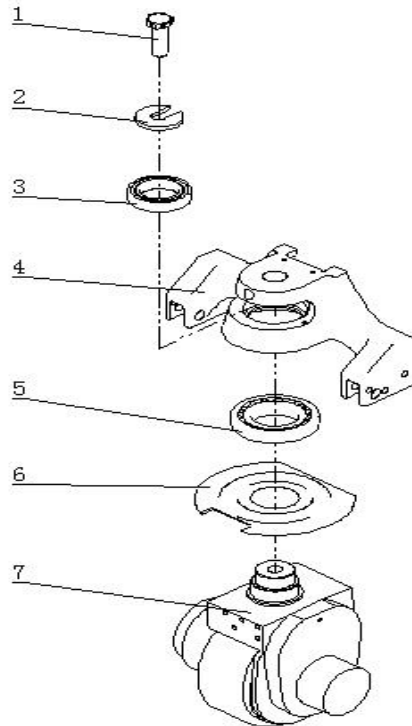
NO.	Description	Qty	NO.	Description	Qty
1	Screw M0.23×0.5	1	5	The top cover	1
2	Spring washer Φ0.23	4	6	The rubber gasket	2
3	Flat gasket Φ0.23	4	7	Screw M0.23×1	2
4	Screw M0.23×0.23	4	8		1



3. Driving system

3.1 Driving device

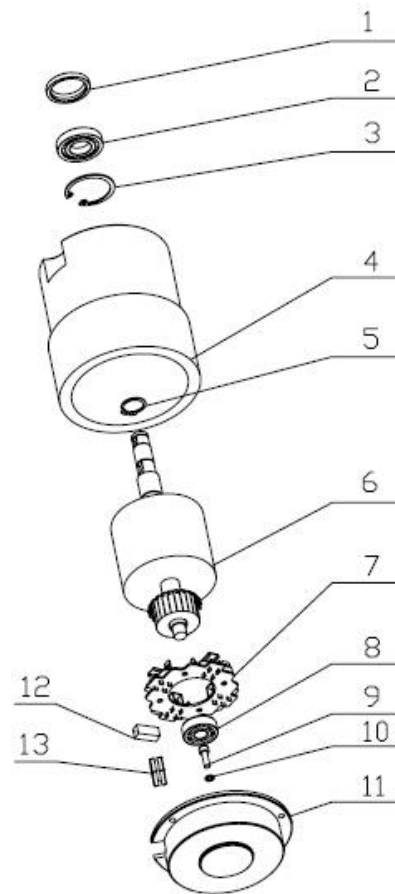
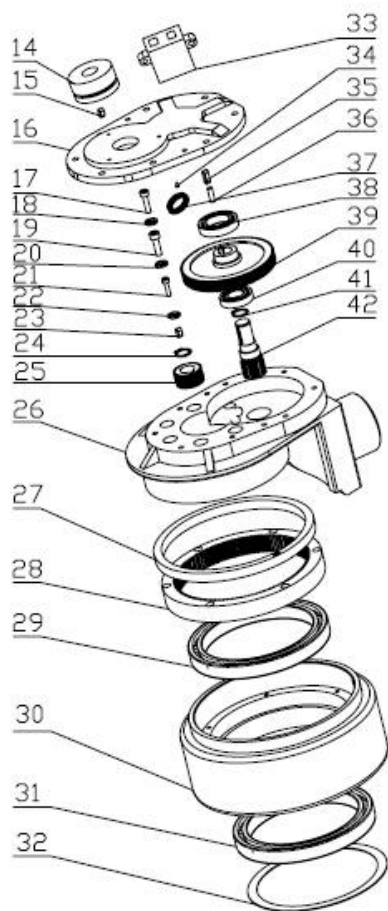
NO.	Description	Qty	NO.	Description	Qty
1	Bolt M0.8×0.06	1	5	Bearing30212	1
2	Driving clamping plate	1	6	The circular cover plate	1
3	Bearing 6010	1	7	Drive	1
4	Bearing bridge	1			



3.2 Drive assembly

NO.	Description	NO.	Description	Qty
1	Oil seal	22	The elastic washer	1
2	Bearing	23	Key	1
3	Cir clips for holes	24	Cir clips for shaft	1
4	Chassis parts	25	Small helical gear	1
5	Cir clips for shaft	26	The box body	1
6	Rotor	27	Oil seal	1
7	Brush frame parts	28	Straight tooth ring	1
8	Bearing	29	bearing	1
9	Inner six angle bolt	30	The driving wheel	1
10	Elastic washer	31	bearing	1
11	The rear end cover	32	The dust ring	1
12	Brush	33	Junction box	1

13	Coil protection	34	Pressure grease cup	1
14	Brake parts	35	Key	1
15	Key	36	The positioning pin	1
16	The box cover	37	Oil seal	1
17	Inner six angle bolt	38	Bearing	1
18	The elastic washer	39	A large piece of	1
19	Inner six angle bolt	40	Bearing	1
20	The elastic washer	41	Circlips for shaft	1
21	Inner six angle bolt	42	The two-stage main tooth	1

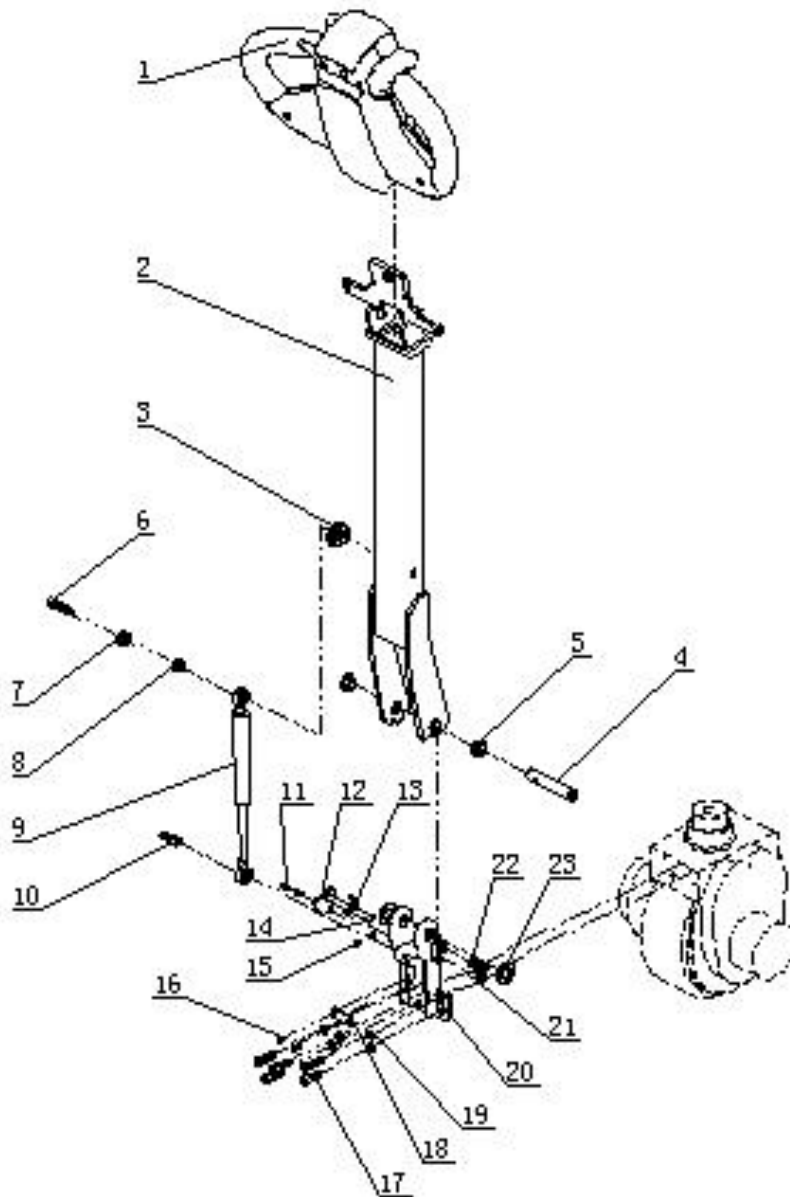


4.The operation system

4.1The operating handle assembly

NO.	Description	Qty	NO.	Description	Qty
1	Handle		12	Switch mounting plate	1

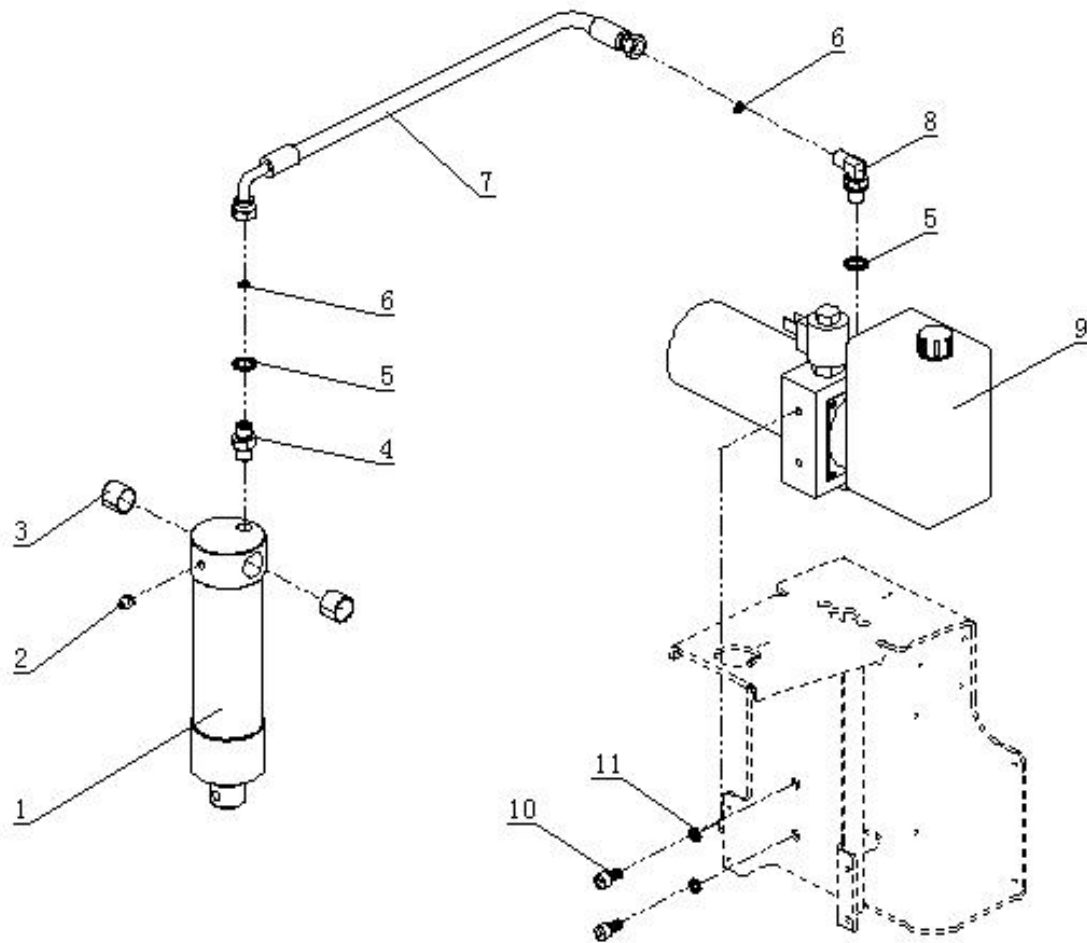
2	Handle welding	1	13	Inching switch	1
3	Rubber pad	1	14	Screw M0.08×0.3	2
4	Joint shaft	1	15	Screw M0.23×0.3	2
5	Shoulder meet setΦ0.7×Φ0.63×0.39	2	16	Screw M0.16×0.39	2
6	Screw M0.3×1.37	1	17	Pressing line plate	1
7	Spacer sleeve	1	18	Spring washerΦ0.3	5
8	Screw M0.3	1	19	Joint seat	1
9	Pneumatic spring seat	1	20	Screw M0.3×0.8	1
10	Screw M0.3×1	6	21	Screw M0.39×0.8	1
11	Screw M0.16×0.39	2	22	Flat gasket Φ0.63	2



5. Hydraulic

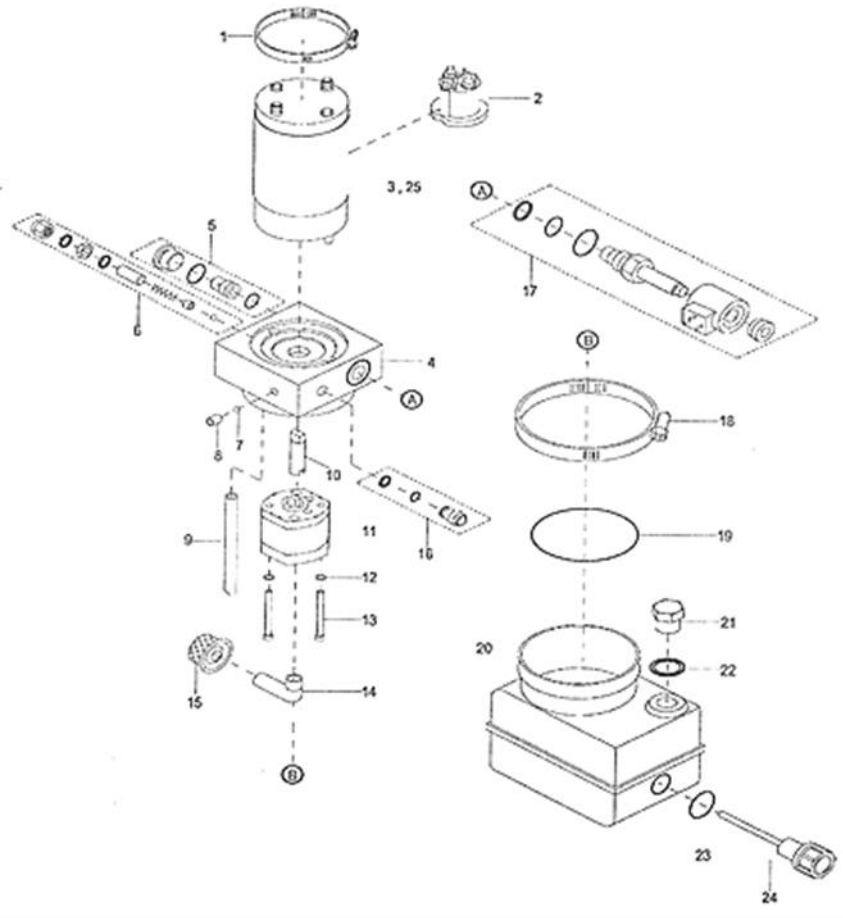
5.1 Hydraulic

NO.	Description	Qty	NO.	Description	Qty
1	Lifting cylinder.	1	7	Rubber hose	1
2	Oil cupM8	1	8	A right-angle joint	1
3	Composite sleeve $\Phi 0.8 \times \Phi 0.9 \times 0.7$	2	9	Hydraulic station assembly	1
4	Direct head	1	10	Screw $M0.3 \times 0.63$	2
5	Combined sealing gasket $\Phi 0.55$	2	11	Spring washer $\Phi 0.3$	2
6	O-ring; 0.23×0.07	2			



5.2 Hydraulic system

NO.	Description	Qty	NO.	Description	Qty
1	Hose clamps	1	14	Oil suction pipe	1
2	Contactar	1	15	Oil filter (G3/8)	1
3	DC motor	1	16	The one-way valve	1
4	Valve blockB1	1	17	Solenoid valve	1
5	Throttle valve	1	18	Hose clamps $\Phi 3.93$	1
6	Safety valve	1	19	O-ring $\Phi 3.35 \times 0.11$	1
7	Steel ball	2	20	Fuel tank	1
8	Inner six angle bolt M0.11 \times 0.3	2	21	Sealing screws	1
9	The oil return pipe	1	22	The combination of pad G3/8	1
10	Connect oi	1	23	O-ring	3
11	Pump	1	24	Air filter (G3/8)	1
12	Washer $\Phi 0.2$	1	25	Brush	1
13	Screw M0.2 \times 2.76	1			



6 The electric system

6.1 Electric plate assembly

NO.	Description	Qty	NO.	Description	Qty
1	NutM0.3	4	11	Emergency switch	1
2	Fuse100A	1	12	Electric plate	1
3	Spring washer Φ 0.3	2	13	ScrewM0.16 \times 1.57	2
4	Washer Φ 0.3	2	14	Washer Φ 0.16	2
5	Plain washer Φ 0.3	2	15	Controller	1
6	ScrewM0.2 \times 0.63	2	16	Install plate	1
7	Fuse holder	1	17	ScrewM0.16 \times 1.37	4
8	ScrewM0.11 \times 0.39	2	18	Washer Φ 0.16	4
9	Buzzer	1	19	Fan	1
10	ScrewM0.2 \times 0.5	1	20	Rubber pad	4

