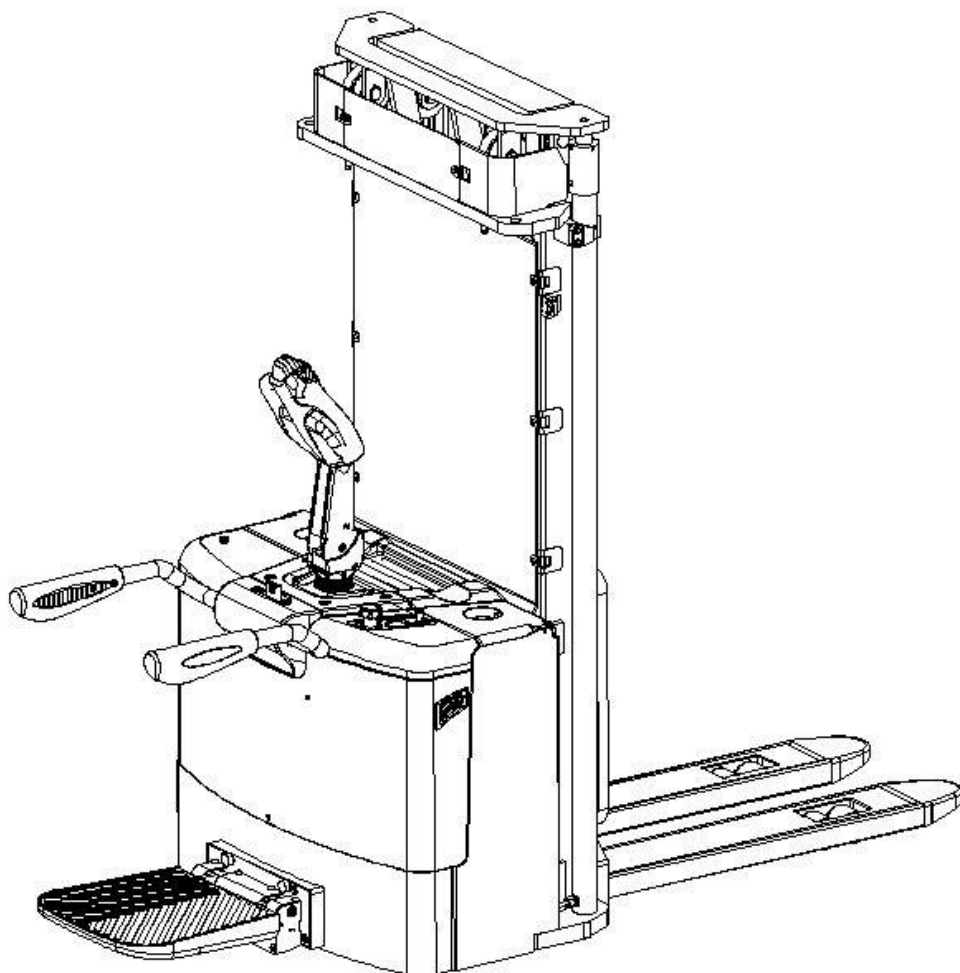


SPAREPARTS LIST

Electric Stacker PS 16W



Version 11/2015

From truck identification number:

30130700011

PS 16W- BPT-006-EN

Catalogue

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Fig. 1 Label (for EU)

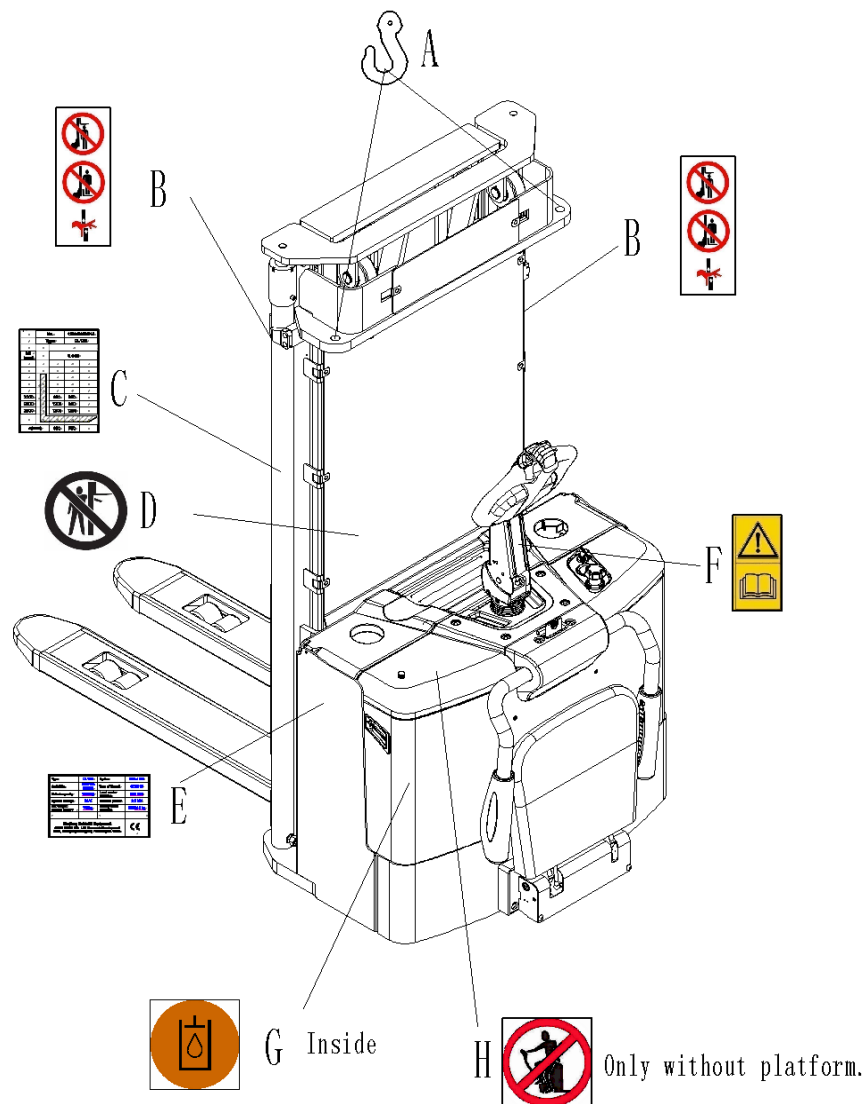


Fig. 1 Label (for EU)

No.	Art No.	Description	Qty.	Note	Standard
A	9000005967	Crane hook label	2		
B	9000003923	Warning decal: Do not step under or on the forks	2		
C	9000008666	Residual lift capacity sticker	1		
D	9000008561	Never reach through	1		
E	9000008663	Identification plate (ID-plate)	1		
F	9000003570	Sticker to read and follow these instructions	1		
G	9000008555	Filling sticker	1		
H	9000003573	Warning label	1		

Fig. 2 Label (for US)

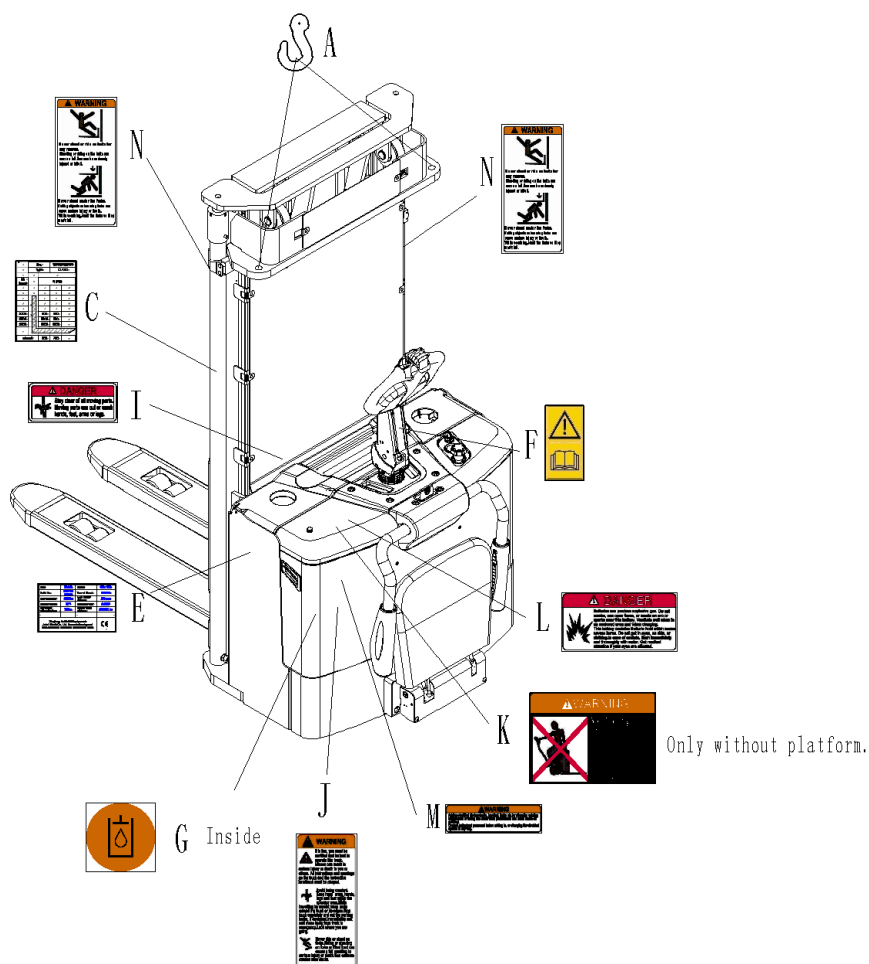


Fig.2 Label (for US)

No.	Art No.	Description	Qty.	Note	Standard
A	9000005967	Crane hook label	2		
C	9000008666	Residual lift capacity sticker	1		
E	9000008663	Identification plate (ID-plate)	1		
F	9000003570	Sticker to read and follow these instructions	1		
G	9000008555	Filling sticker	1		
I	9000005970	Sign danger being crushed	1		
J	9000003575	Warning label	1		
K	9000003580	Warning label	1		
L	9000003577	Sign danger battery	1		
M	9000003579	Sign warning electrical devices	1		
N	9000005971	Sign not under, on forks	2		

Fig. 3 Appearance

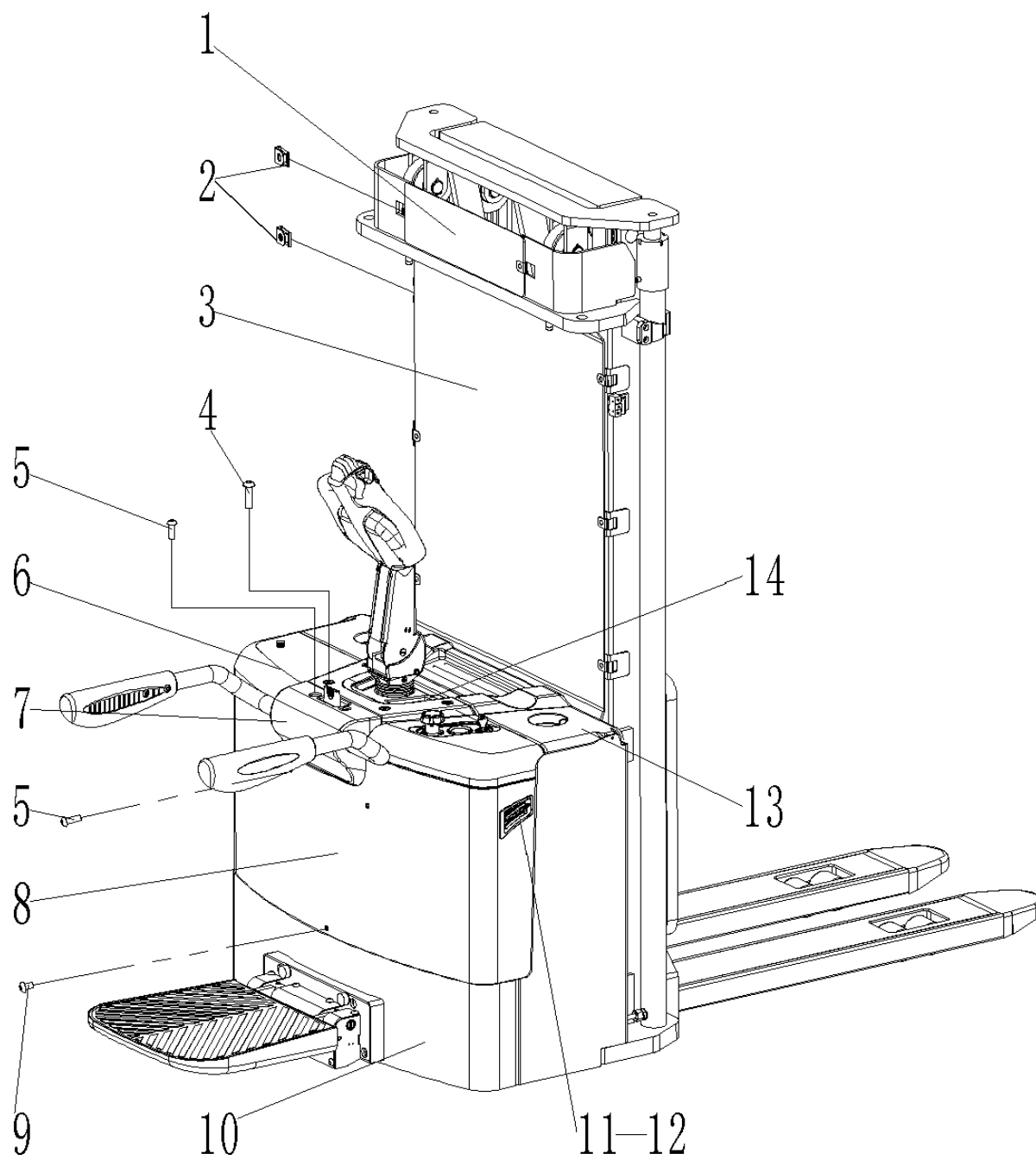


Fig. 3 Appearance

No.	Art No.	Description	Qty.	Note	Standard
1	9000008100	Glass	1		
2	9000007782	Spring card buckle	8		
3	9000008103	Protective glass	1		
4	9000007790	Screw	4	M10×55	
5	1000423003	Screw	4	M10×30	
6	9000008082	Top cover	1		
7	9000008063	Protective arm cover	1		
8	9000008084	Welded outer cover	1		
9	2000423001	Screw	1	M10×15	
10	9000008081	Truck body	1		
11	9000007920	Left vent hole assembly	1		
12	9000007923	Right vent hole assembly	1		
13	9000008085	Battery cover	1		
14	9000008130	Middle cover	1		

Fig. 4 Protective arm

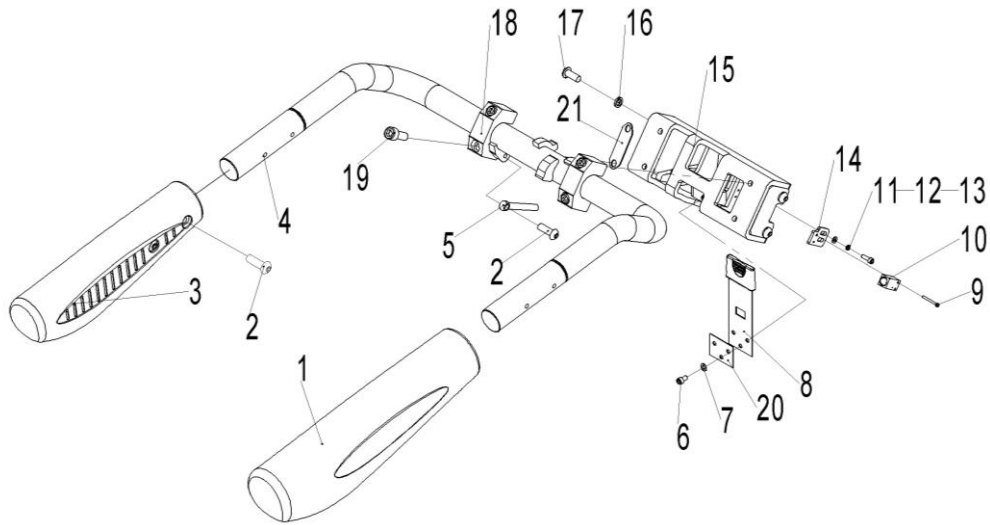


Fig. 4 Protective arm

No.	Art No.	Description	Qty.	Note	Standard
1	9000007895	Right protective arm cover	1		
2	0090000448	Screw	5	M8×20	GB/T70.2=ISO7380
3	9000007896	Left protective arm cover	1		
4	9000007894	Welded protective arm	1		
5	9000007780	Air spring	1		
6	0000023045	Screw	3	M6×12	GB/T70.2=ISO7380
7	0000025010	Washer	3	6	GB/T93
8	9000007897	Positioning spring	1		
9	0000023075	Screw	2	M3×20	GB/T70.1=ISO4762
10	9000008329	Proximity switch	1	NBN5-F7-E2	
11	0000025012	Washer	2	5	GB/T93
12	0000023032	Washer	2	5	GB/T95
13	0000023107	Screw	2	M5×16	GB/T70.1=ISO4762
14	9000009799	Switch transition plate	1		
15	9000007892	Welded protective arm seat	1		
16	0000023006	Washer	4	10	GB/T93
17	0090000447	Screw	4	M10×25	GB/T70.2=ISO7380
18	9000007893	Protective arm clamp block	2		
19	0000023099	Screw	4	M10×45	GB/T70.1=ISO4762
20	9000012096	block	1		
21	9000014905	spacer	2		

Fig. 5 Foldable platform

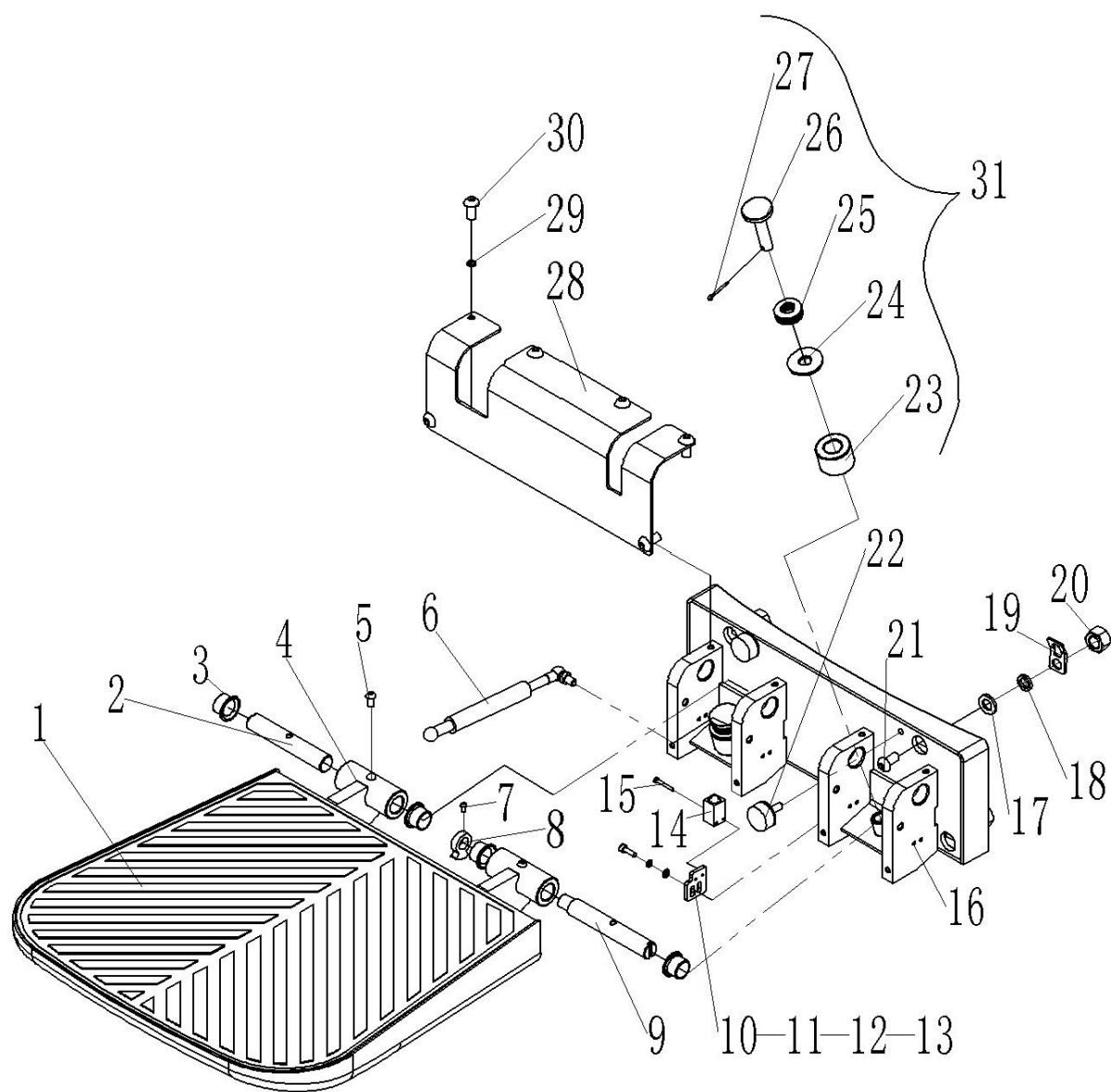


Fig. 5 Foldable platform

No.	Art No.	Description	Qty.	Note	Standard
1	9000007867	Pedal pad	1		
2	9000007869	Rotateing shaft	1		
3	9000007799	Shoulder harness	4	Ø20×Ø23×16.5	
4	9000007863	Welded foot platform	1		
5	0000023555	Screw	2	M6×16	GB/T70.2=ISO7380
6	2000421001	Air spring	1		
7	0090000473	Screw	1	M4x10	
8	9000007873	Cam	1		
9	9000007866	Cam shaft	1		
10	0000025012	Washer	2	5	GB/T93
11	0000023032	Washer	2	5	GB/T95
12	0000023107	Screw	2	M5×16	GB/T70.1=ISO4762
13	9000009799	Switch transition plate	1		
14	9000008328	Proximity switch	1	NBN5-F7-E2	
15	0000023075	Screw	2	M3×20	GB/T70.1=ISO4762
16	9000007864	Welded assemble seat	1		
17	0090000048	Washer	4	12	GB/T97.1
18	0000025024	Washer	4	12	GB/T93
19	9000007874	Line hanging board	1		
20	0000024006	Lock nut	4	M12	GB/T889.1=ISO7040
21	0090000450	Screw	4	M12×45	GB/T70.2=ISO7380
22	9000007865	Cushion	2		
23	9000007872	Anti-vibration pad	2		
24	9000007871	Anti-vibration washer	2		
25	0000031001	Spring	8	Ø16.3×Ø31.5×	GB/T1972
26	9000007870	Fixed bolt	2		
27	0000028033	Split pin	2	Ø3.2×20	GB/T91=ISO1234
28	9000007868	Assemble seat cover	1		
29	0000025010	Washer	6	6	GB/T93
30	0000023045	Screw	6	M6×12	GB/T70.2=ISO7380
31	9000008897	Suspension components	2		

Fig. 6 Battery cover assembly

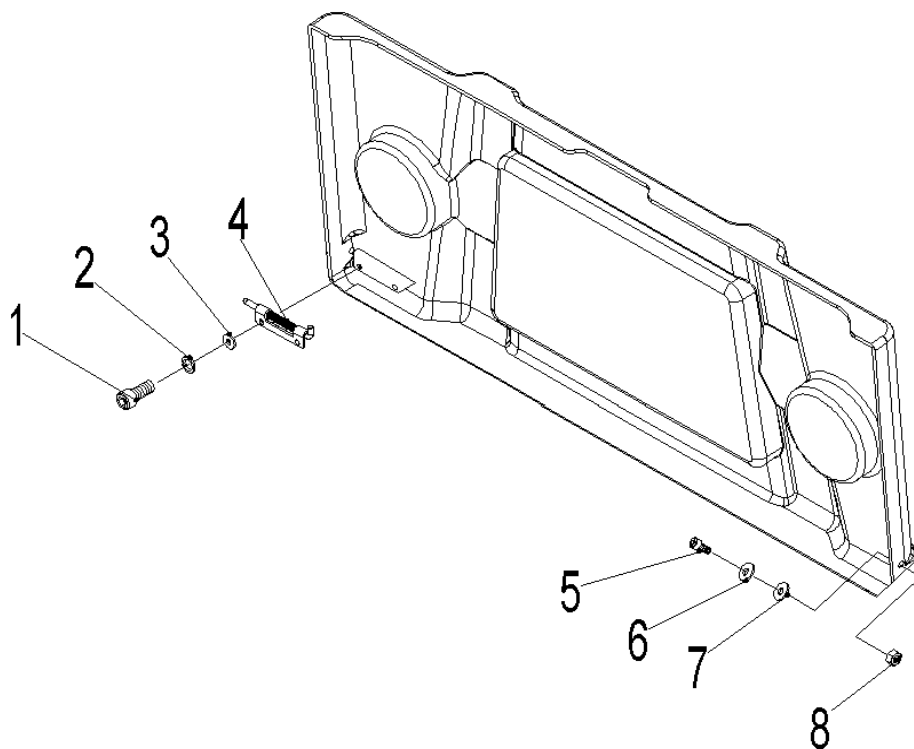


Fig. 6 Battery cover assembly

No.	Art No.	Description	Qty.	Note	Standard
1	0000023073	Screw	2	M4×10	GB/T70.1=ISO4762
2	0000025018	Washer	2	4	GB/T93
3	0000025019	Washer	2	4	GB/T95
4	90000008795	Latch	1	CL037	
5	0000023306	Screw	1	M5×20	GB/T70.1=ISO4762
6	0000025015	Washer	1	5	GB/T93
7	0000025014	Washer	1	5	GB/T95
8	0000024035	Nut	1	M5	GB/T6170=ISO4032

Fig. 7 Pallet frame

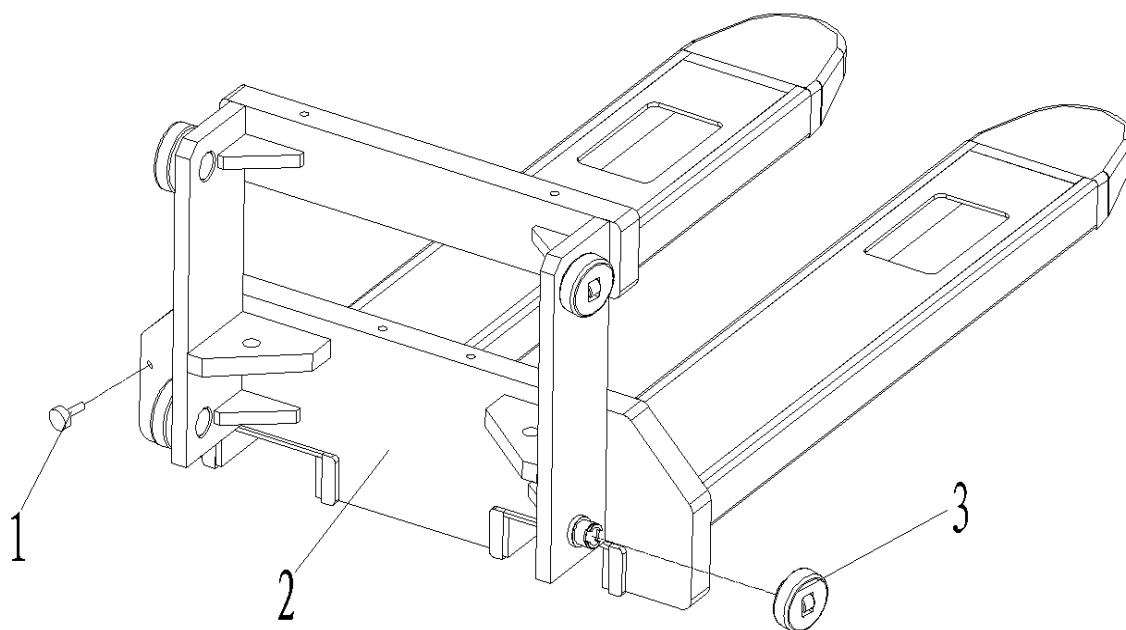


Fig. 7 Pallet frame

No.	Art No.	Description	Qty.	Note	Standard
1	2000435002	Magnetic steel	1		
2	9000008080	Welded pallet	1	570 × 1150	
	9000009412			685 × 1150	
3	9000007756	Compound roller	4		

Fig. 8 Steering wheel

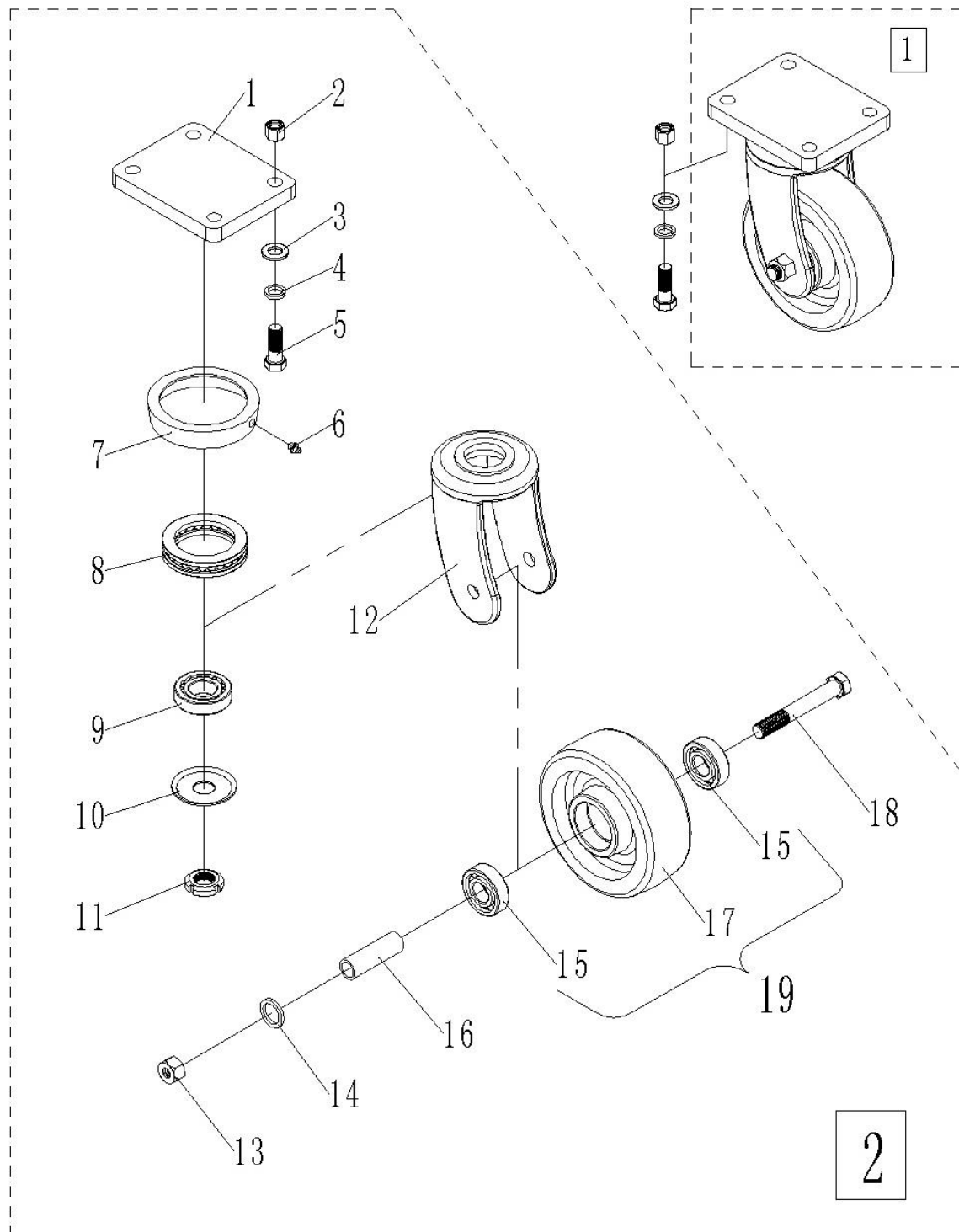


Fig. 8 Steering wheel

No.	Art No.	Description	Qty.	Note	Standard
1	2240401006	Welded flange	2		
2	0000024006	Lock nut	8	M12	GB/T889.1=ISO7040
3	0000025032	Washer	8	12	GB/T95
4	0000025024	Washer	8	12	GB/T93
5	0000023122	Screw	8	M12×50	GB/T70.1=ISO4762
6	1010530001	grease nipple with angle	2	M6	JB/T7940.1
7	2210422001	Dust ring	2		
8	0000027014	Bearing	2	8111	GB/T301
9	0000027015	Bearing	2	7205E	GB/T297
10	2210404001	Pressure cover	2		
11	0000024016	Round nut	2	M20×1.5	GB/T812
12	2270405001	Frame of roller	2		
13	0000024015	Lock nut	2	M14	GB/T889.1=ISO7040
14	2210425001	Washer	4		
15	0000027001	Bearing	4	6204	GB/T276=ISO3290
16	2210413001	Bearing sleeve	2		
17	2210416001	Castor	2		
18	0000023111	Bolt	2	M14×100	GB/T5782=ISO4014
19	9000008896	Wheel set	1		
1	2270400001	Steering wheel components	2		
2	9000010409	Steering wheel accessories	2		

Fig. 9 Load wheel

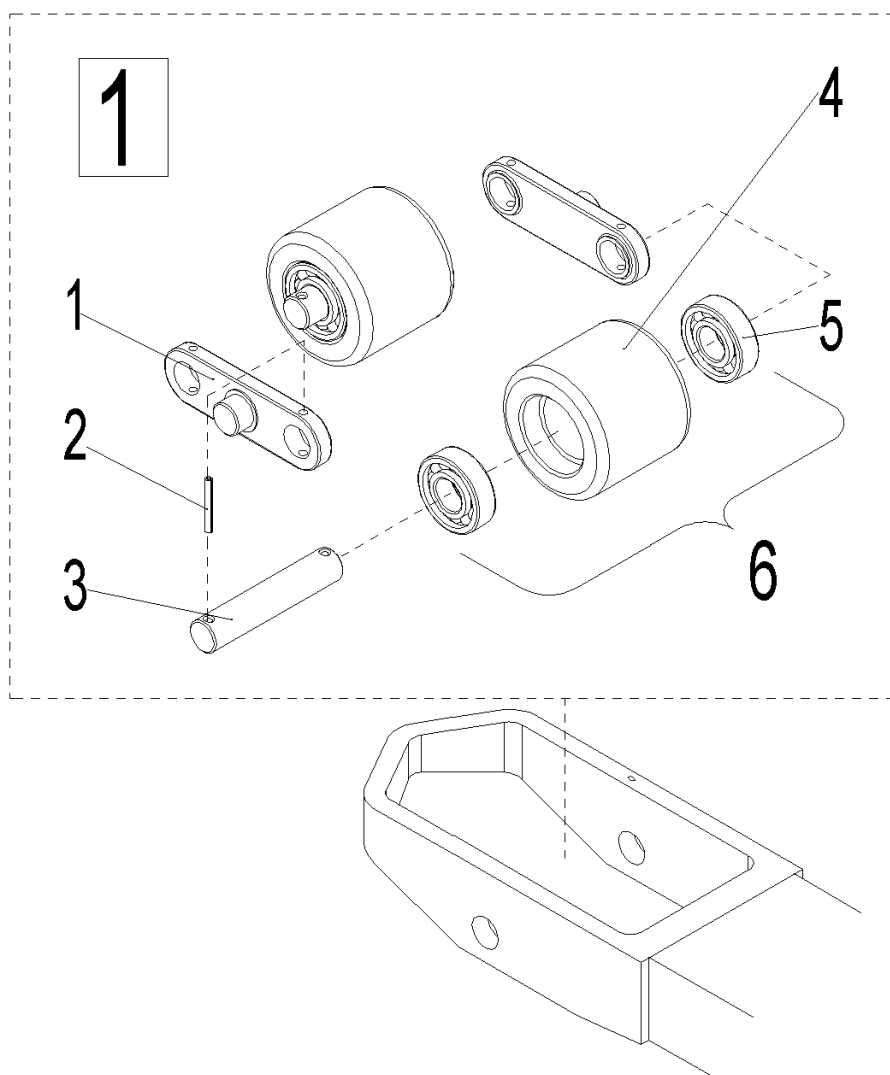


Fig. 9 Load wheel

No.	Art No.	Description	Qty.	Note	Standard
1	2000405002	Linking plate	2		
2	0000028009	Elastic cylindrical pin	4	Ø5×35	GB/T879.1=ISO8752
3	2000407001	Castor shaft	2		
4	2000416002	Load wheel	2	Ø80×70	
5	0000027001	Bearing	4	6204	GB/T276=ISO3290
6	9000010398	Load wheel set	2		
□	2000600001	Load wheel assembly	2		

Fig. 10 Mast Assembly

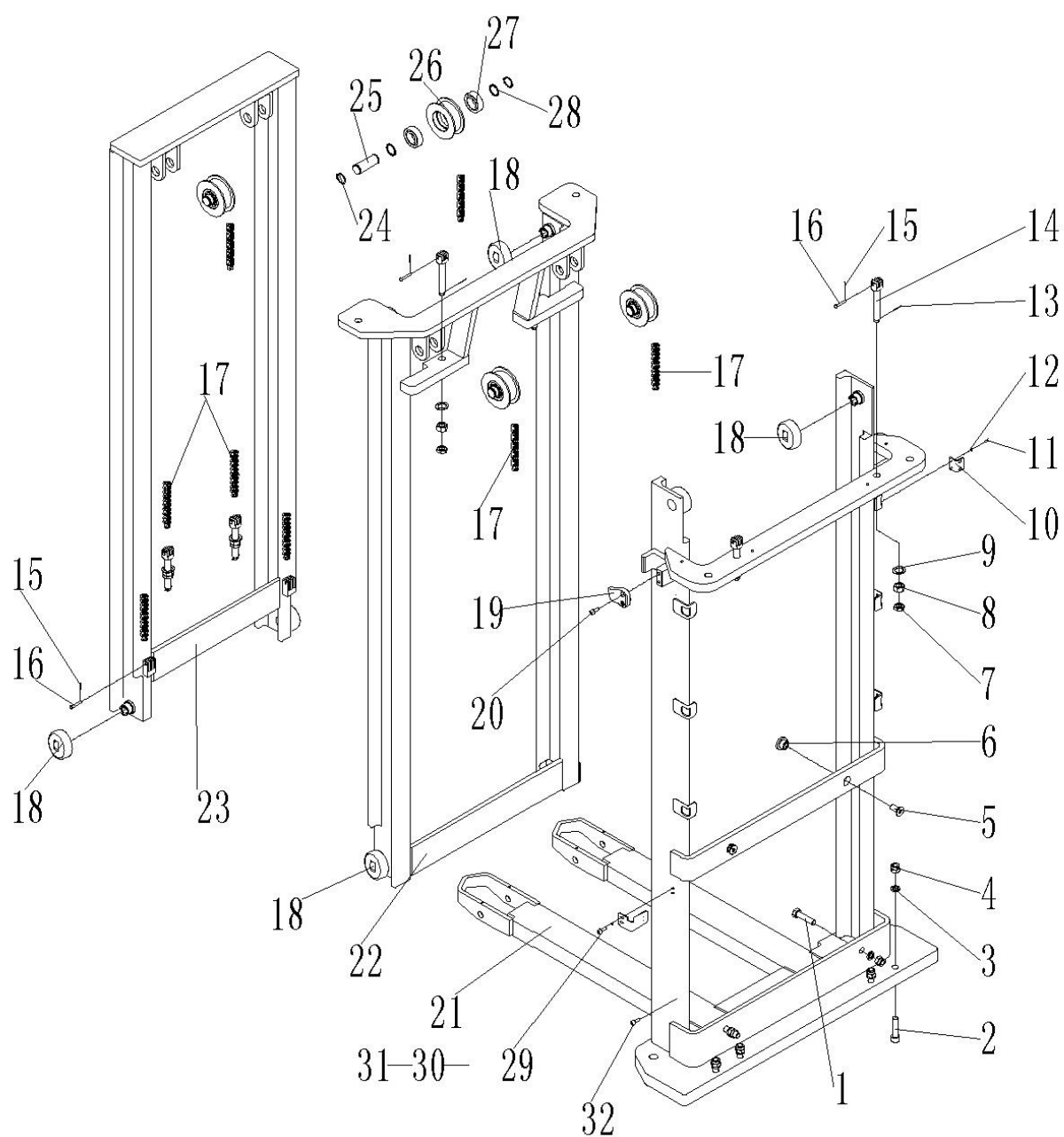


Fig. 10 Mast Assembly

No.	Art No.	Description	Qty.	Note	Standard
1	0000023322	Bolt	2	M16×55	GB/T5782=ISO4014
2	0000023514	Screw	4	M16×65	GB/T70.2=ISO7380
3	0000025059	Washer	6	16	GB/T93

4	0000024011	Lock nut	6	M16	GB/T889.1=ISO7040
5	9000007794	Screw	2	M16×38	
6	9000009122	Nut	2	M16	
7	0000024014	Nut	6	M16×1.5	GB/T6173=ISO8675
8	0090000442	Nut	6	M16×1.5	GB/T6171
9	0000025029	Washer	6	16	GB/T91=ISO1234
10	9000009118	Micro switch fixing plate	1		
11	0000023056	Screw	2	M4×12	GB/T70.1=ISO4762
12	0000025018	Washer	2	4	GB/T93
13	0000028104	Split pin	6	Ø2.5×25	GB/T91=ISO1234
14	9000008260	Bolt	6		
15	0000028010	Split pin	8	Ø2×20	GB/T91=ISO1234
16	0000028017	Hinge pin	8	Ø6×35	GB/T882
17	0090000455	Chain	4	LH1066×127	GB/T6074
18	9000007755	Compound roller	8		
19	3018005004	Cylinder pressure plate	2		
20	0000023044	Screw	4	M8×20	GB/T70.1=ISO4762
21	9000008094	Welded outer mast	1	4600; 570×1150	
	9000009412			4600; 685×1150	
22	9000008095	Welded middle mast	1	4600	
23	9000008096	Welded inner mast	1	4600	
24	0000026008	Retaining ring for axle	8	Ø30	GB/T894.1
25	9000009119	Chain wheel shaft	4		
26	2390302024	Chain wheel for mast	4		
27	0000027012	Bearing	8	6206	GB/T276=ISO3290
28	2000302002	Adjusting washer	8		
29	9000009121	Magnetic switch holder	1		
30	0000025018	Washer	2	4	GB/T93
31	0000023056	Screw	2	M4×12	GB/T70.1=ISO4762
32	0090000189	Screw	1	M4x8	GB/T70.3=ISO10642

Fig. 11 Electronic control assembly(manual steering)

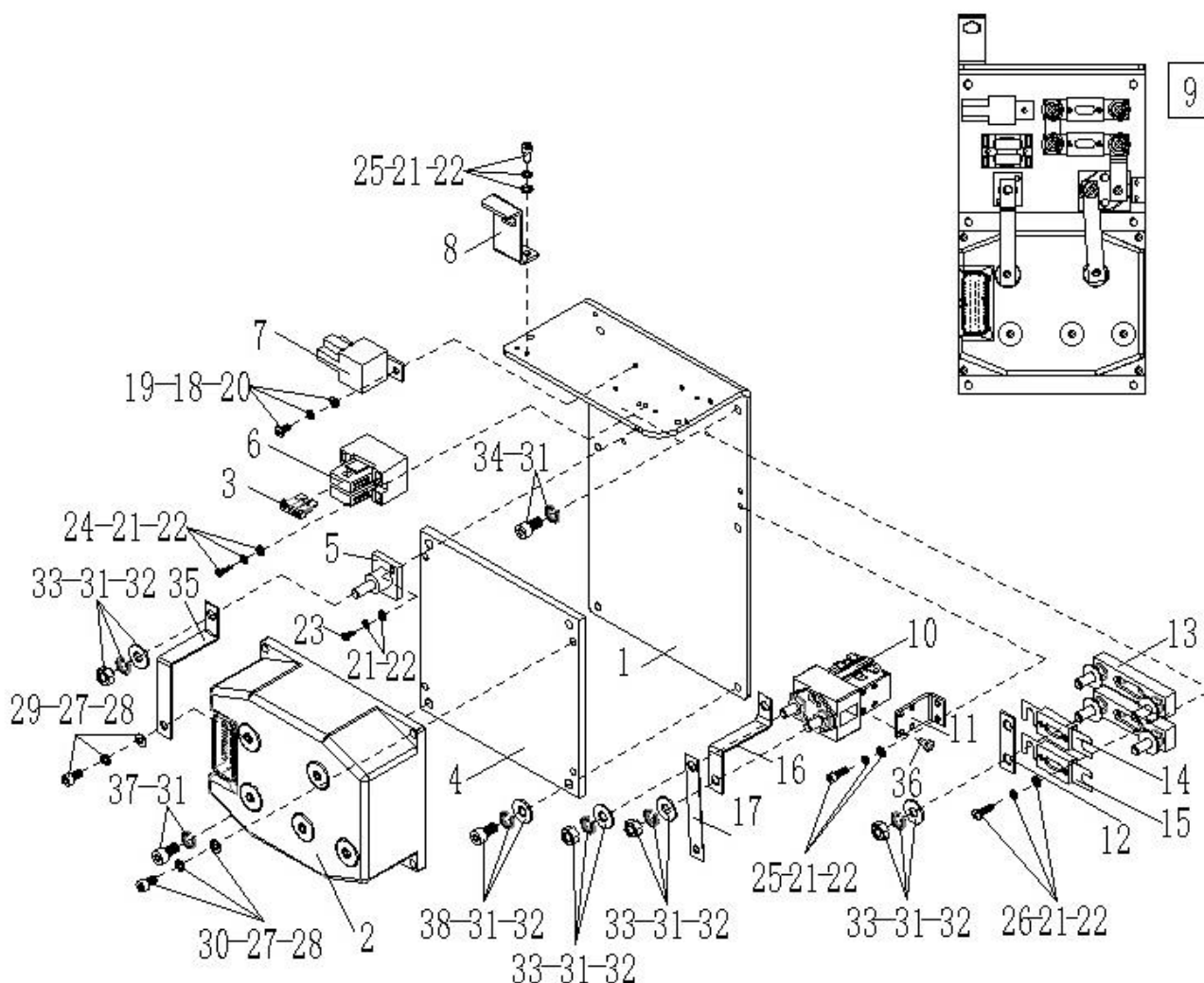


Fig. 11 Electronic control assembly(manual steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000008138	Controller assemble plate	1		
2	9000000235	Controller CURTIS	1	1232E-2121	
3	1000434040	Fuse	1	10A	
4	9000008376	Aluminium plate	1		
5	1020434002	Wiring terminal	1	BD-M8	
6	9000008586	Fuse seat	1	BD-2×10A	
7	1000434041	Relay	1	DC24V	

8	9000008585	Plug fixing plate	1		
9	9000008409	Controller components	1		
10	1000434006	Traction motor contactor	1	DC24V	
11	9000008598	Main contactor assemble plate	1		
12	1020434003	Copper bar	1		
13	1000434007	Fuse seat	2	SYT	
14	1020434001	Fuse	1	200A	
15	2210434004	Fuse	1	150A	
16	9000008374	Copper bar	1		
17	9000008373	Copper bar	1		
18	0000023516	Screw	3	M5×10	GB/T818=ISO7045
19	0000025015	Washer	1	5	GB/T93
20	0000025014	Washer	1	5	GB/T95
21	0000025018	Washer	12	4	GB/T93
22	0000025019	Washer	12	4	GB/T95
23	0000023073	Screw	2	M4×10	GB/T70.1=ISO4762
24	0000023019	Screw	2	M4×30	GB/T818=ISO7045
25	0000023307	Screw	4	M4×10	GB/T818=ISO7045
26	0000023211	Screw	4	M4×16	GB/T818=ISO7045
27	0000025010	Washer	9	6	GB/T93
28	0000023055	Washer	9	6	GB/T95
29	0000023478	Screw	5	M6×12	GB/T70.1=ISO4762
30	0000023923	Screw	4	M6×18	GB/T70.1=ISO4762
31	0000025001	Washer	11	8	GB/T93
32	0000025011	Washer	11	8	GB/T95
33	0000024086	Nut	11	M8	GB/T6170=ISO4032
34	0000023067	Screw	2	M8×16	GB/T70.1=ISO4762
35	9000008372	Copper bar	1		
36	0000023727	Screw	2	M4×6	GB/T818=ISO7045
37	0000023166	Screw	1	M8×20	GB/T70.1=ISO4762
38	0000023061	Screw	1	M8×25	GB/T70.1=ISO4762

Fig. 12 Electronic control assembly(electrical steering)

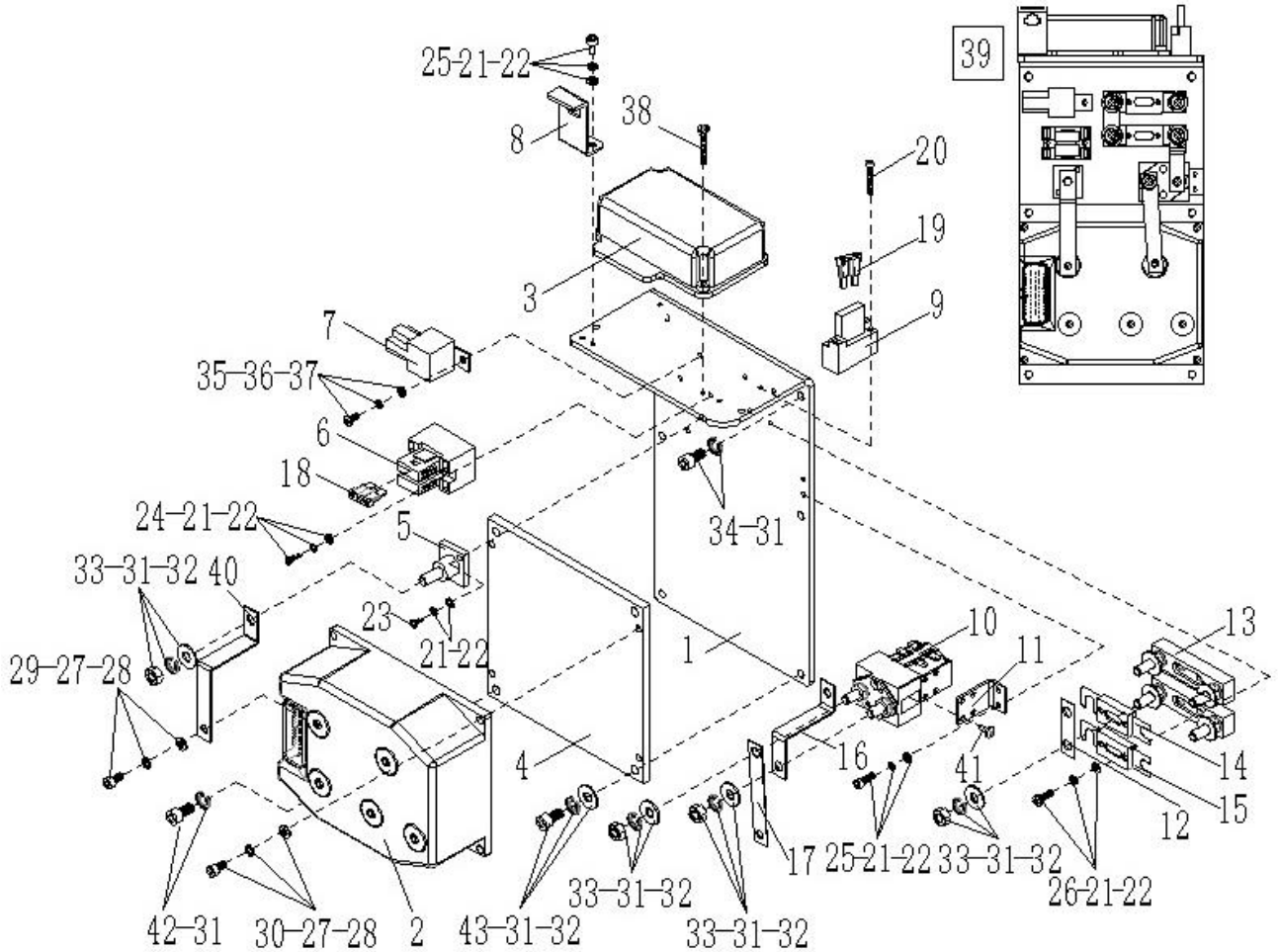


Fig. 12 Electronic control assembly(electrical steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000008138	Controller assemble plate	1		
2	9000000235	Controller	1	CURTIS1232E-2121	
3	9000000236	Steering controller	1	BD-SC-24/10	
	9000008451			BD-SC-24/10-3	
4	9000008376	Aluminium plate	1		
5	1020434002	Wiring terminal	1	BD-M8	
6	9000008586	Fuse seat	1	BD-2×10A-1	
7	1000434041	Relay	1	DC24V	
8	9000008585	Plug fixing plate	1		
9	1000434021	Fuse seat	1	BD-1×10A	

10	1000434006	Traction motor contactor	1	DC24V	
11	9000008598	Main contactor assemble plate	1		LPT20E.7.1-6
12	1020434003	Copper bar	1		
13	1000434007	Fuse seat	2	SYV	
14	1020434001	Fuse	1	200A	
15	2210434004	Fuse	1	150A	
16	9000008374	Copper bar	1		
17	9000008373	Copper bar	1		
18	1000434040	Fuse	1	10A	
19	3042434014	Fuse	1	15A	
20	0000023070	Screw	2	M3×25	GB/T70.1=ISO4762
21	0000025018	Washer	12	4	GB/T93
22	0000025019	Washer	12	4	GB/T95
23	0000023073	Screw	2	M4×10	GB/T70.1=ISO4762
24	0000023019	Screw	2	M4×30	GB/T818=ISO7045
25	0000023307	Screw	4	M4×10	GB/T818=ISO7045
26	0000023211	Screw	4	M4×16	GB/T818=ISO7045
27	0000025010	Washer	9	6	GB/T93
28	0000023055	Washer	9	6	GB/T95
29	0000023478	Screw	5	M6×12	GB/T70.1=ISO4762
30	0000023923	Screw	4	M6×18	GB/T70.1=ISO4762
31	0000025001	Screw	12	8	GB/T93
32	0000025011	Washer	11	8	GB/T95
33	0000024086	Nut	12	M8	GB/T6170=ISO4032
34	0000023067	Screw	2	M8×16	GB/T70.1=ISO4762
35	0000023516	Screw	3	M5×10	GB/T818=ISO7045
36	0000025015	Washer	1	5	GB/T93
37	0000025014	Washer	1	5	GB/T95
38	0090000082	Screw	2	M4×30	GB/T70.1=ISO4762
39	9000008597	Controller components	1		
40	9000008372	Copper bar	1		
41	0000023727	Screw	2	M4×6	GB/T818=ISO7045
42	0000023166	Screw	1	M8×20	GB/T70.1=ISO4762
43	0000023061	Screw	1	M8×25	GB/T70.1=ISO4762

Fig. 13 Main harness(manual steering)

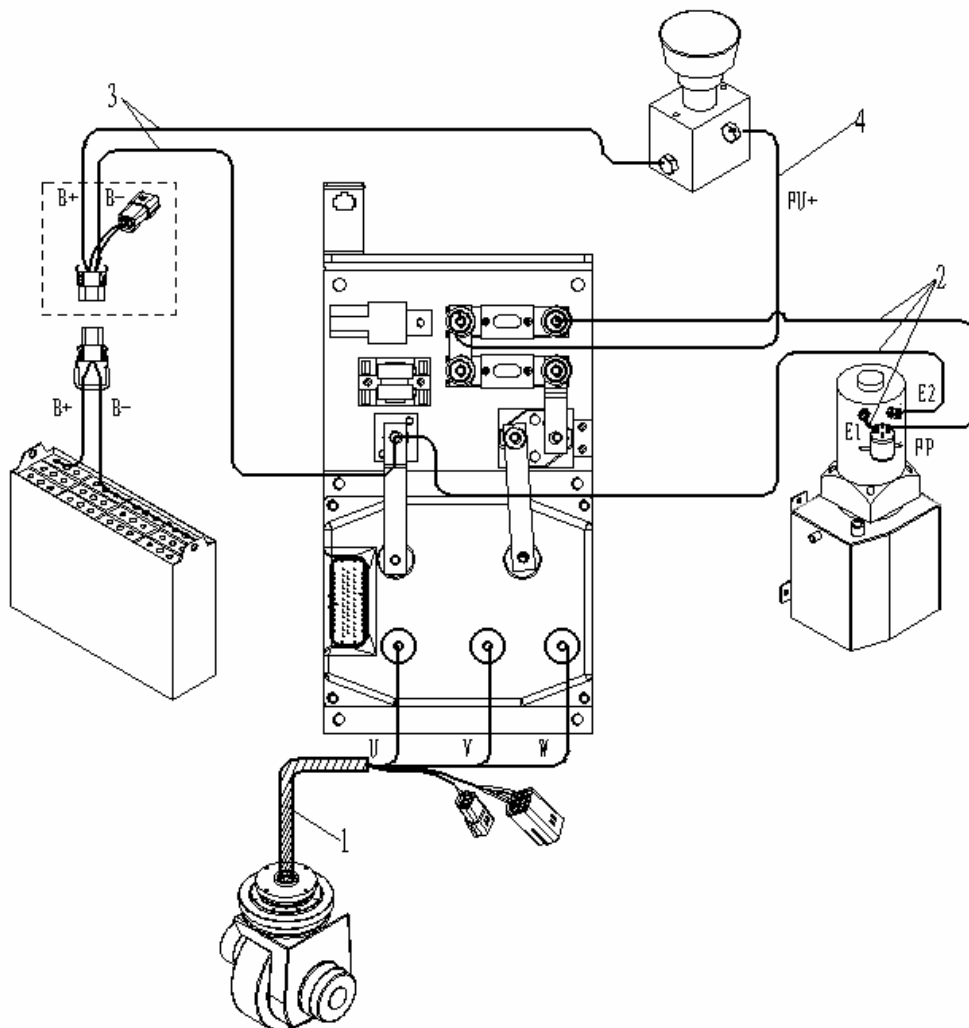


Fig. 13 Main Harness(manual steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000009425	Drive motor cable	1		
2	9000008430	Pump motor cable	1		
3	9000008431	Power supply cable	1		
4	9000008432	FU+ cable	1		

Fig. 14 Main Harness(electrical steering)

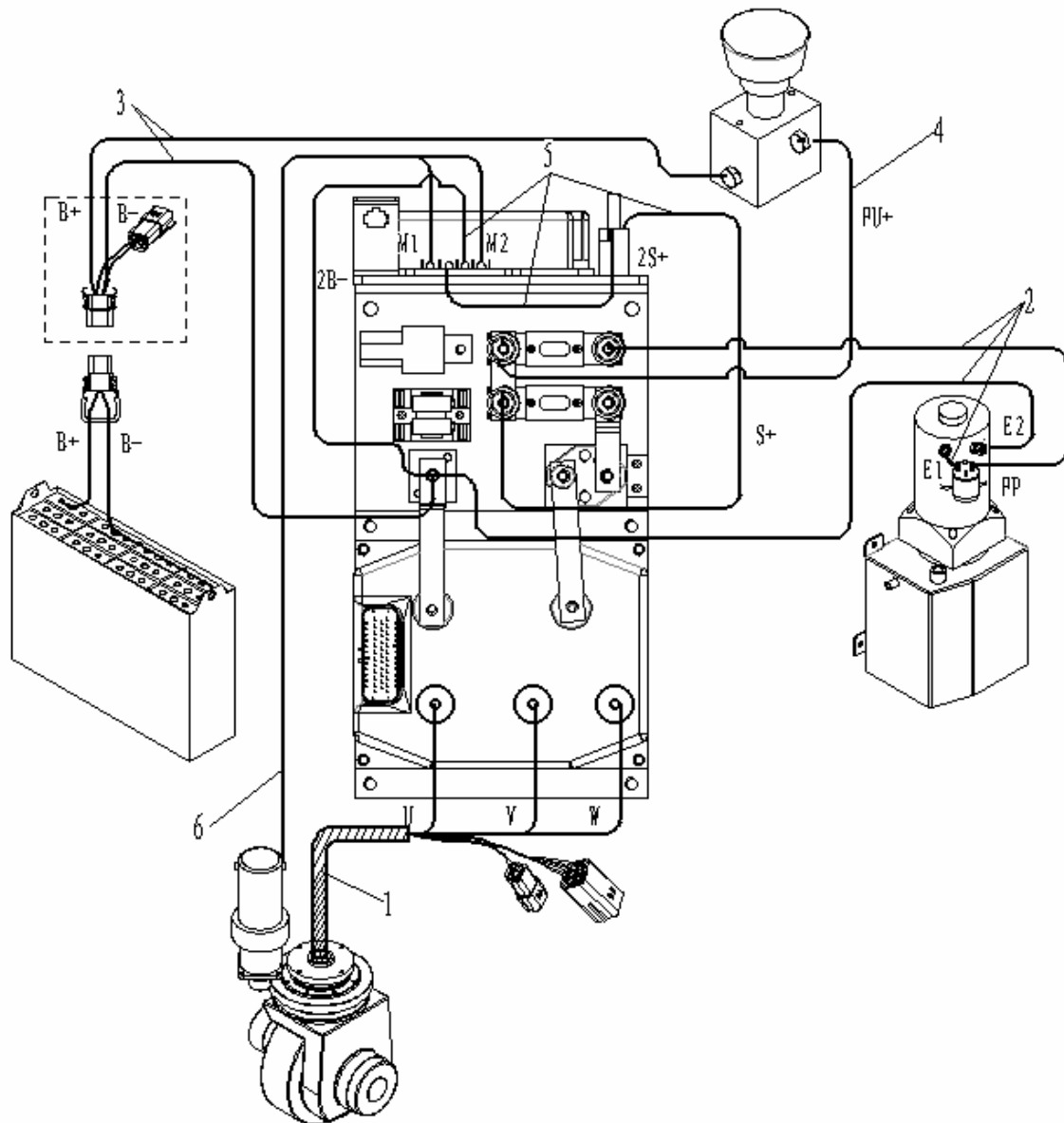


Fig. 14 Main Harness(electrical steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000008429	Drive motor cable	1		
2	9000008430	Pump motor cable	1		
3	9000008431	Power supply cable	1		
4	9000008432	FU+ cable	1		
5	9000008433	Steering controller cable	1		
6	9000008434	Steering motor cable	1		

Fig. 15 Electric parts(manual steering)

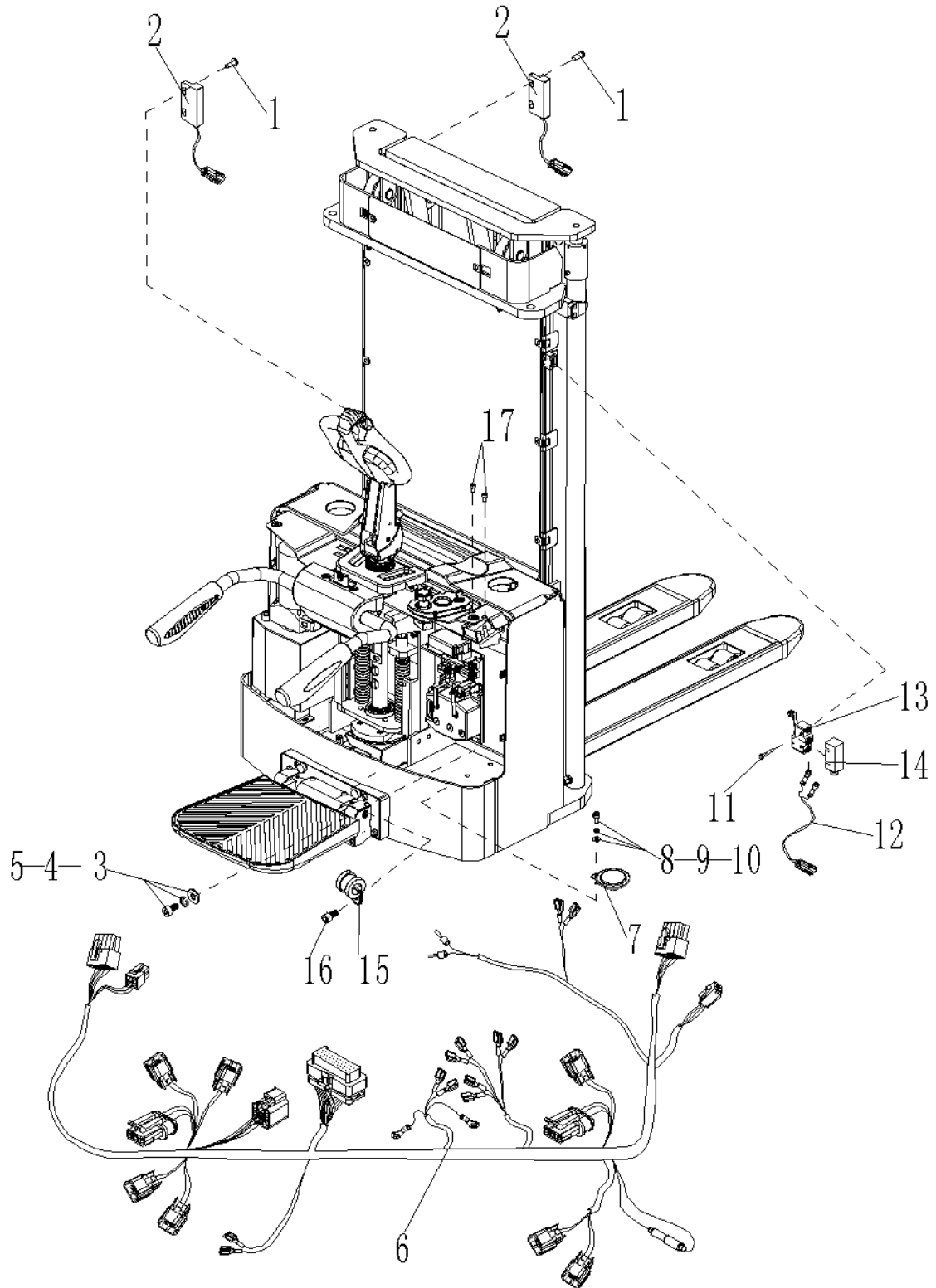


Fig.15 Electric parts(manual steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000008332	Magnetic switch	2	HWK23	
2	0000023083	Screw	4	M3×8	GB/T70.2=ISO7380
3	0000023044	Screw	4	M8×20	GB/T70.1=ISO4762
4	0000025001	Washer	4	8	GB/T93
5	0000025011	Washer	4	8	GB/T97.1
6	9000009424	Main control wiring diagram	1		
7	1000434015	Horn	1	DC24V	
8	0000023478	Screw	1	M6×12	GB/T70.1=ISO4762
9	0000025010	Washer	1	6	GB/T93
10	0000023055	Washer	1	6	GB/T97.1
11	0000023033	Screw	2	M4×25	GB/T70.1=ISO4762
12	9000008404	Limit control wiring harness	1		
13	2040634001	Proximity switch	1	XZ-15GW22-B	
14	2040603002	Proximity switch cover	1		
15	90000089545	YGE hose clamp	1	26X20	
16	0000023042	Screw	1	M6×10	GB/T70.1=ISO4762
17	0000023106	Screw	2	M6×30	GB/T70.1=ISO4762

Fig. 16 Electric parts(electrical steering)

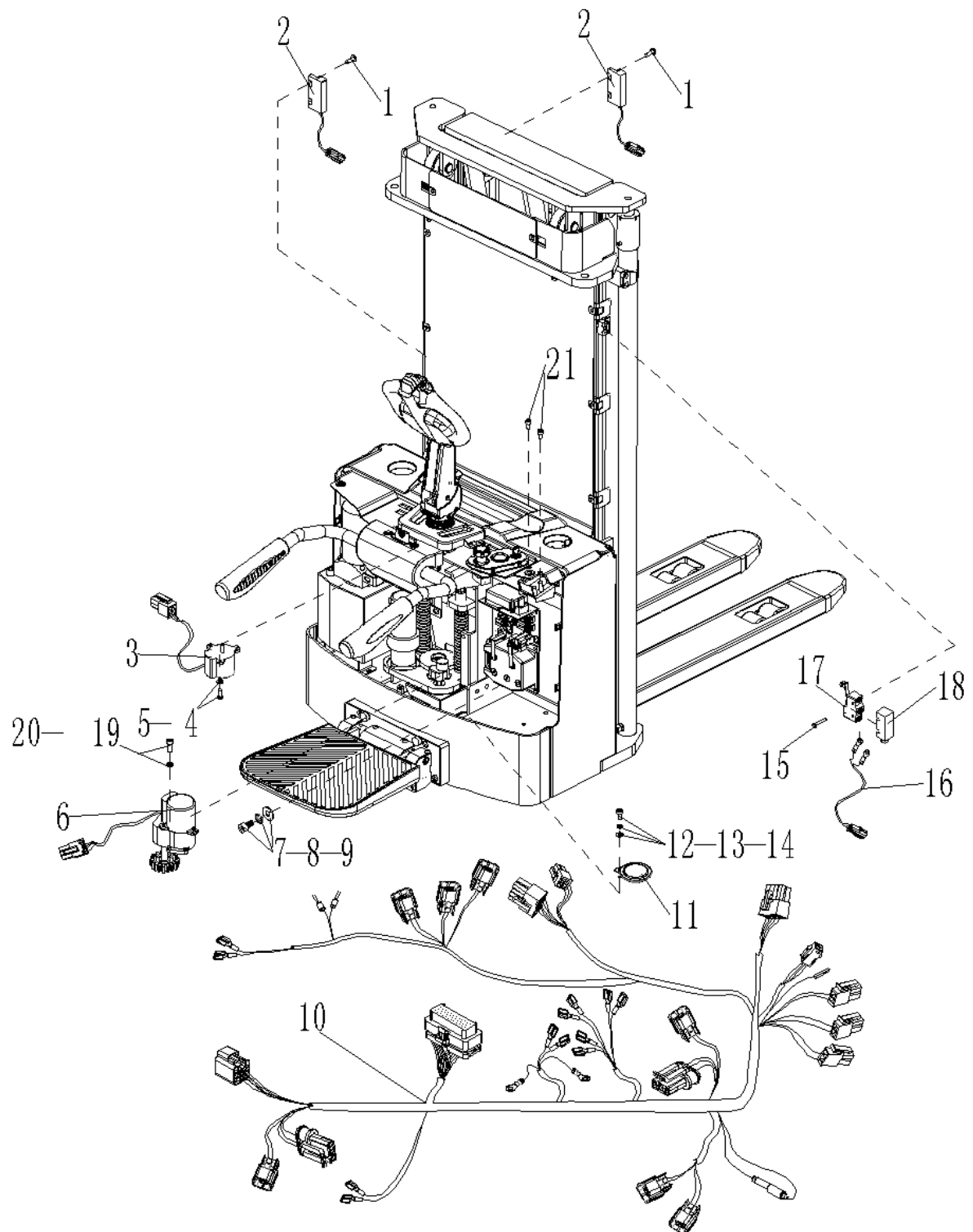


Fig.16 Electric parts(electrical steering)

No.	Art No.	Description	Qty.	Note	Standard
1	0000023083	Screw	4	M3x8	GB/T70.2=ISO7380
2	9000008332	Magnetic switch	2	HWK23	
3	9000000239	Tiller sensor	1	BD-MS	
	9000008448			BD-MS-3	
4	0000025026	Washer	3	3	GB/T97.1
5	0000023216	Screw	3	M3×8	GB/T70.1=ISO4762
6	9000007132	Position sensor	1	BD-PS	
	9000008450		1	BD-PS-3	
7	0000023044	Screw	4	M8×20	GB/T70.1=ISO4762
8	0000025001	Washer	4	8	GB/T93
9	0000025011	Washer	4	8	GB/T97.1
10	9000008427	Main control wiring diagram	1		
11	1000434015	Horn	1	DC24V	
12	0000023478	Screw	1	M6×12	GB/T70.1=ISO4762
13	0000025010	Washer	1	6	GB/T93
14	0000023055	Washer	1	6	GB/T97.1
15	0000023033	Screw	2	M4×25	GB/T70.1=ISO4762
16	9000008428	Limit control wiring harness			
17	2040634001	Proximity switch	1	XZ-15GW22-B	
18	2040603002	Proximity switch cover	1		
19	0000023041	Screw	4	M4×30	GB/T818=ISO7045
20	0000025019	Washer	4	4	GB/T97.1
21	0000023106	Screw	2	M6×30	GB/T70.1=ISO4762

Fig. 17 Power supply assembly

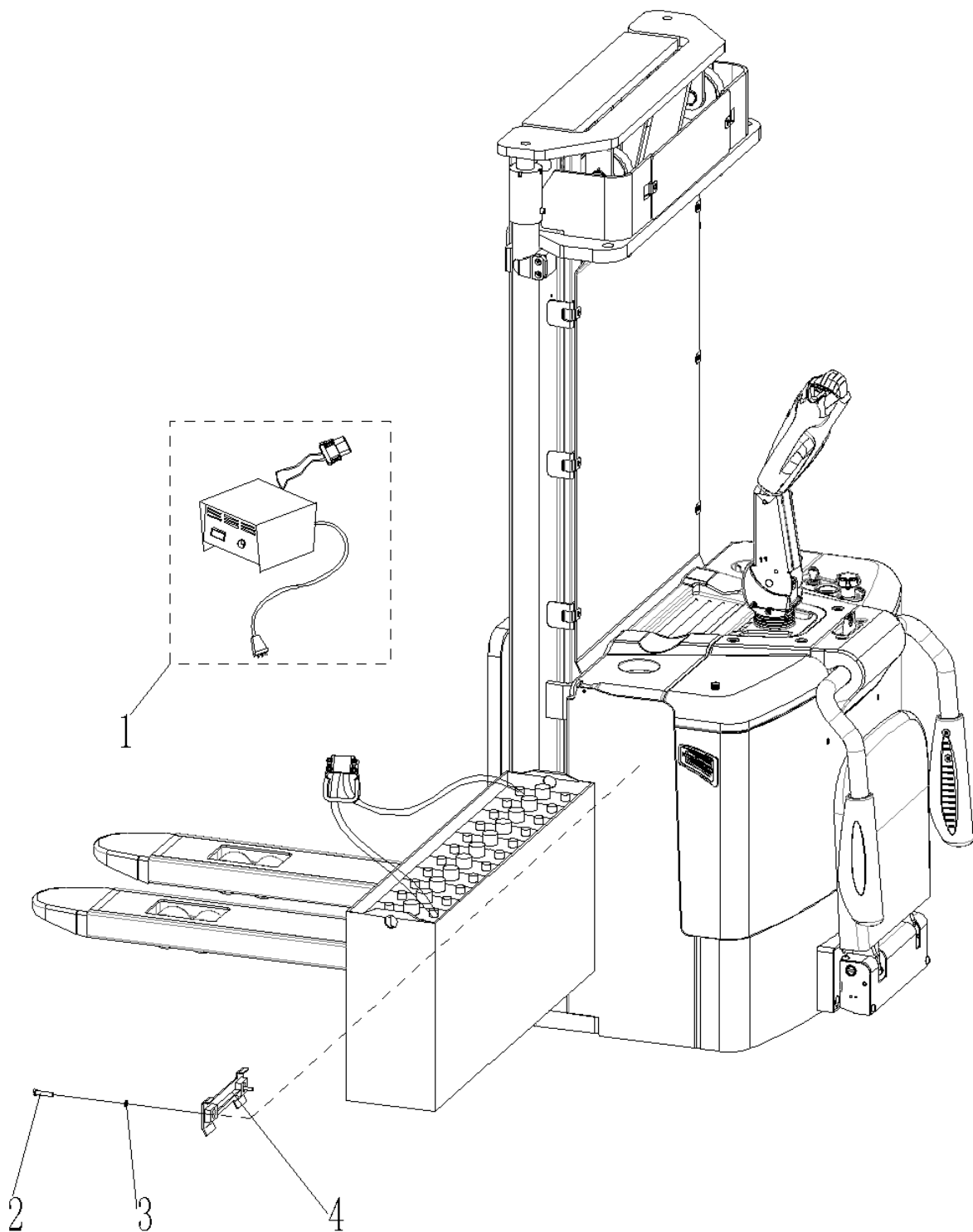


Fig. 17 Power supply assembly

No.	Art No.	Description	Qty.	Note	Standard
1	9000010147	Charger	1	Asia in Chinese	
	9000010148			Asia in English	
	9000010194			For EU	
	9000010195			For AUS	
	9000010196			For UK	
	9000010197			For USA	
2	0000023250	Bolt	2	M8x30	GB/T5783
3	0000025004	Washer	2	8	GB/T93
4	9000008083	Welded battery limit	1		

Fig. 18 Battery

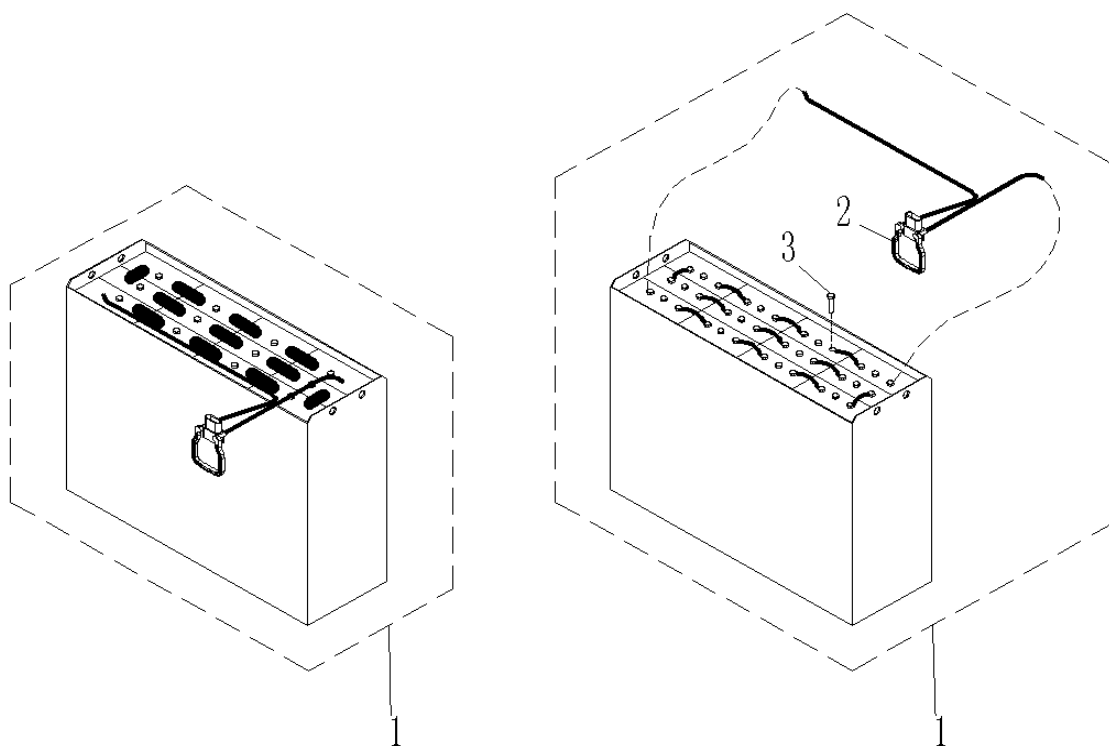


Fig.18 Battery

No.	Art No.	Description	Qty.	Note	Standard
1	9000008093	Battery	1	weld type	
	9000009994			bolt type	
2	9000009996	Connector	1	only for bolt type battery	
3	9000009832	Screw	24	only for bolt type battery	

Fig. 19 Hydraulic System

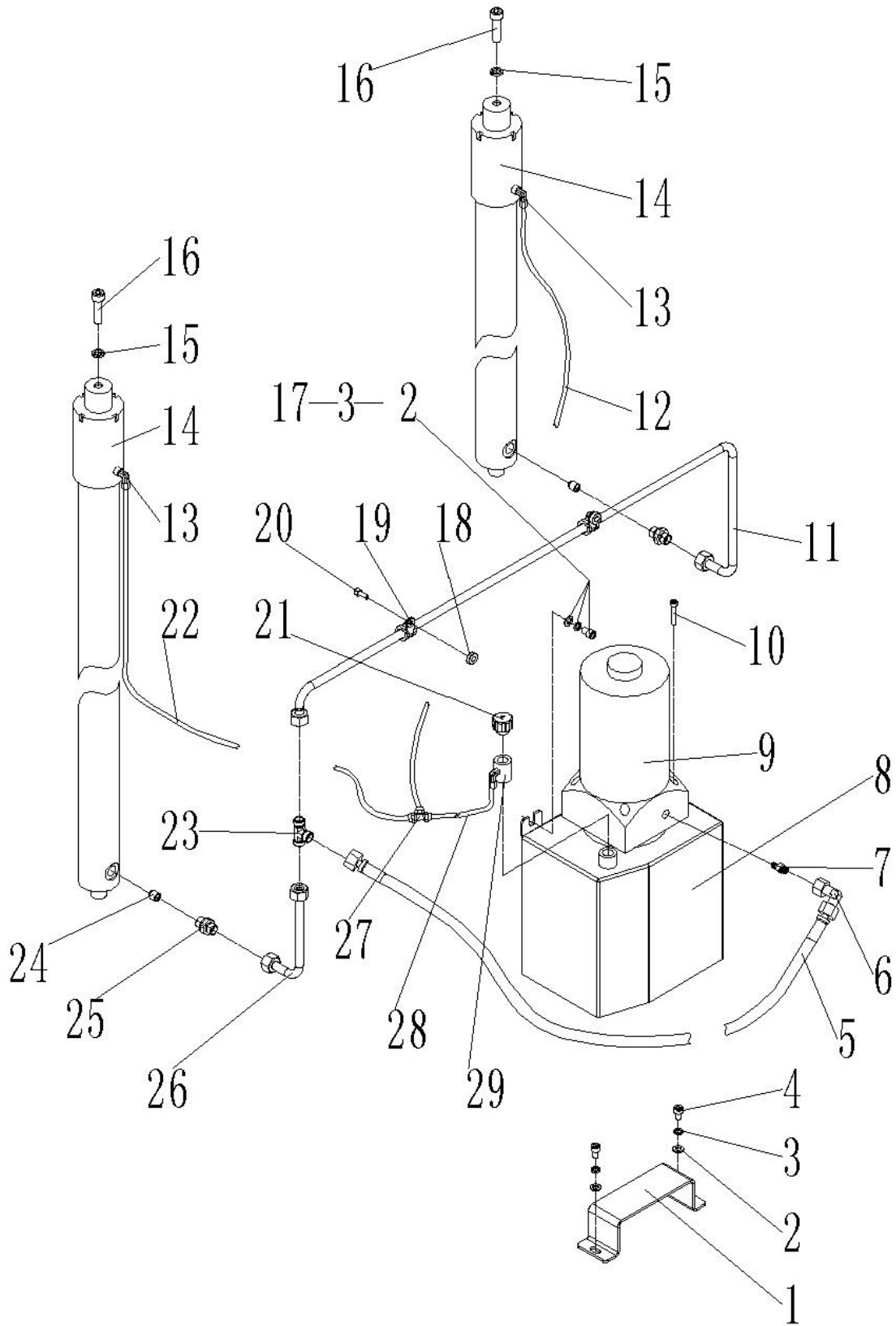


Fig.19 Hydraulic System

No.	Art No.	Description	Qty.	Note	Standard
1	9000008087	Oil tank supporting plate	1		
2	0000025011	Washer	4	8	GB/T95
3	0000025001	Washer	4	8	GB/T93
4	0000023067	Screw	2	M8×16	GB/T70.2=ISO7380
5	9000014908	Tube assembly	1		
6	9000007838	Steering connecting joint	1		
7	9000007832	G straight joint	1		
8	9000008090	Welded oil tank	1		
9	9000008867	DC power unit	1		
10	0000023090	Screw	4	M6×35	GB/T70.1=ISO4762
11	9000008088	Steel pipe	1		
12	9000008099	Oil return pipe	1		
13	2010317001	Angle	3		
14	9000008104	Cylinder assembly	2		
15	0000025024	Washer	2	12	GB/T93
16	0000023156	Screw	2	M12×25	GB/T70.1=ISO4762
17	0000023415	Screw	2	M8×10	GB/T70.1=ISO4762
18	9000008091	Washer	2		GB/T95
19	9000008325	YGE hose clamp	2		
20	0000023040	Screw	2	M6×16	GB/T70.1=ISO4762
21	2000303001	Vent plug	1		
22	9000008098	Oil return pipe	1		
23	9000008887	Steering connecting joint	1		
24	9000009120	Long joint	1		
25	2000337001	Safety explosion-proof components	1		
26	9000007842	Straight joints	3		
27	9000008086	Steel pipe	1		
28	2250317004	Three-way oil-returning joint	1		
29	9000008089	Oil return pipe	1		
30	2010317003	Joint	1		

Fig. 20 Cylinder

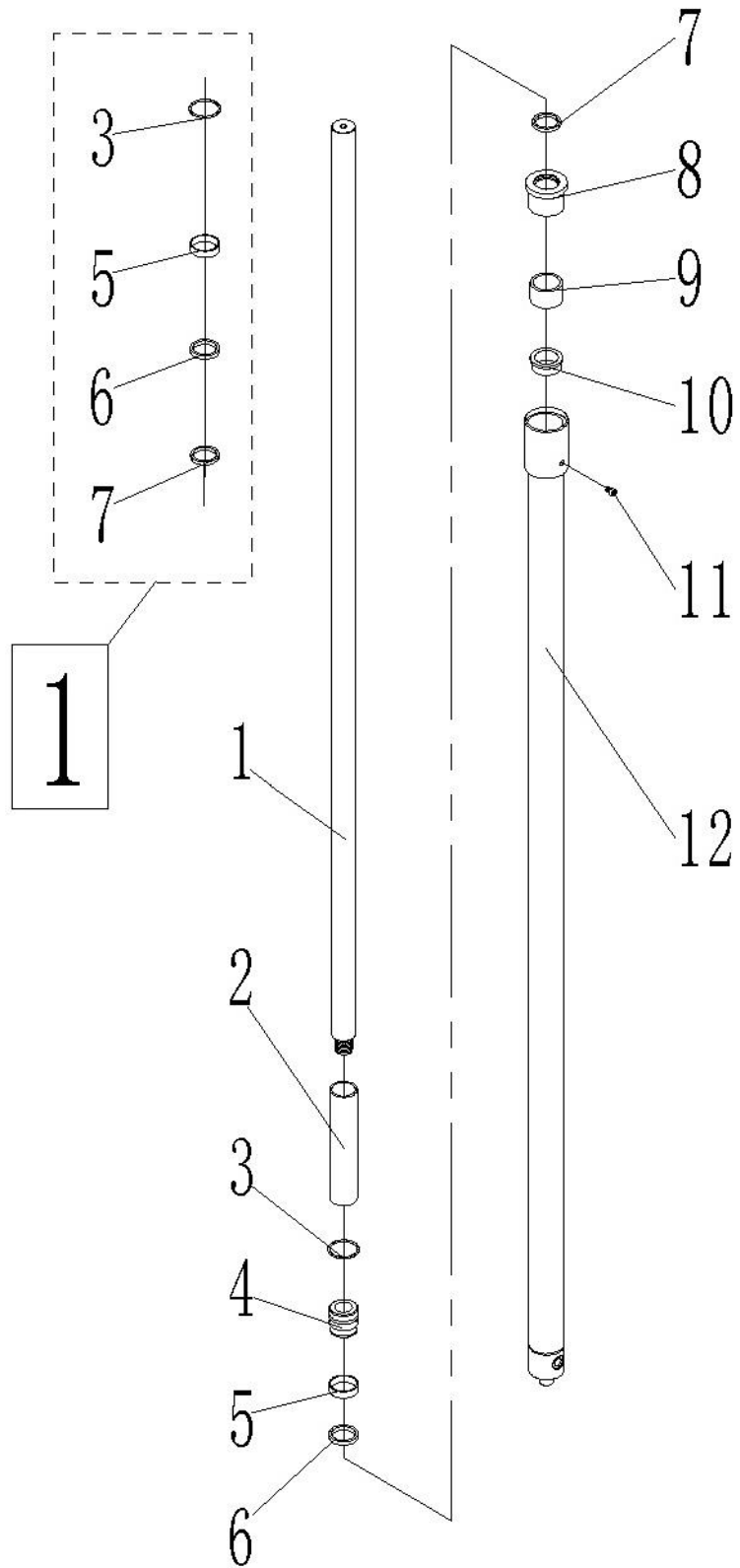


Fig. 20 Cylinder

No.	Art No.	Description	Qty.	Note	Standard
1	9000009417	Piston rod	1	3400	
2	9000009419	Bushing	1		
3	0000022029	O ring	1	50×3.1	GB1235
4	9000009420	Piston	1		
5	9000009182	Support ring for hole	1	46×50×15	
6	9000009178	Y ring for hole	1	40×50×6/7	
7	9000009169	Dust ring	1	40×48×5/6.5	
8	9000009414	Cap nut	1		
9	9000009415	Bushing	1		
10	9000009416	Guide bushing	1		
11	0090000120	Vent plug	1	RC1/8	JB/ZQ4446
12	9000009418	Welded cylinder body	1	3400	
II	9000009952	Cylinder seal assembly			

Fig. 21 Hydraulic System(Proportional Lift)

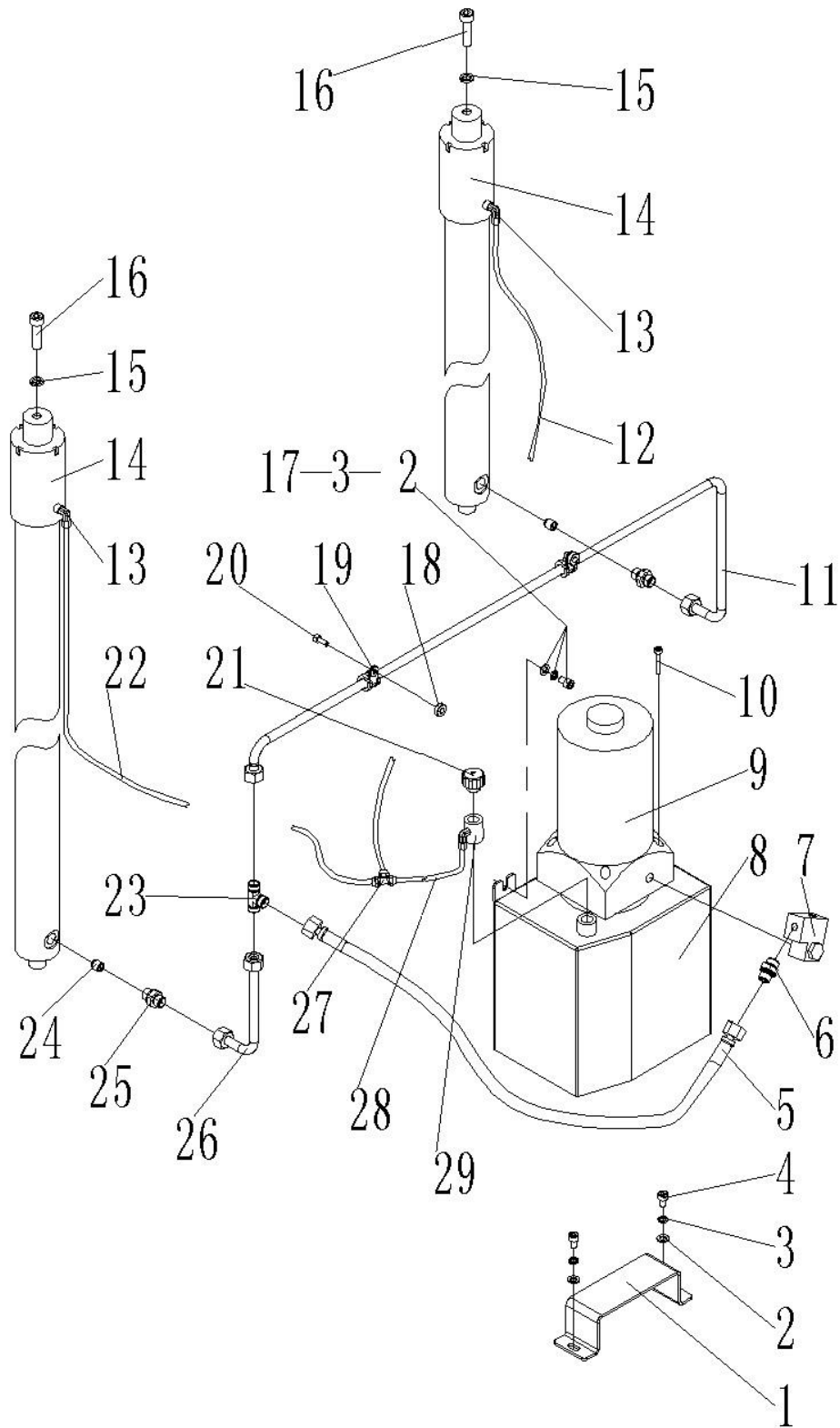


Fig.21 Hydraulic System (proportional lift)

No.	Art No.	Description	Qty.	Note	Standard
1	9000008087	Oil tank supporting plate	1		
2	0000025011	Washer	4	8	GB/T95
3	0000025001	Washer	4	8	GB/T93
4	0000023067	Screw	2	M8×16	GB/T70.2=ISO7380
5	9000014908	Tube assembly	1		
6	9000007832	G straight joint	1		
7	9000011791	Valve plate component	1		
8	9000008090	Welded oil tank	1		
9	9000008867	DC power unit	1		
10	0000023090	Screw	4	M6×35	GB/T70.1=ISO4762
11	9000008088	Steel pipe	1		
12	9000008099	Oil return pipe	1		
13	2010317001	Angle	3		
14	9000008104	Cylinder assembly	2		
15	0000025024	Washer	2	12	GB/T93
16	0000023156	Screw	2	M12×25	GB/T70.1=ISO4762
17	0000023415	Screw	2	M8×10	GB/T70.1=ISO4762
18	9000008091	Washer	2		GB/T95
19	9000008325	YGE hose clamp	2		
20	0000023040	Screw	2	M6×16	GB/T70.1=ISO4762
21	2000303001	Vent plug	1		
22	9000008098	Oil return pipe	1		
23	9000008887	Steering connecting joint	1		
24	9000009120	Long joint	1		
25	2000337001	Safety explosion-proof components	1		
26	9000007842	Straight joints	3		
27	9000008086	Steel pipe	1		
28	2250317004	Three-way oil-returning joint	1		
29	9000008089	Oil return pipe	1		
30	2010317003	Joint	1		

Fig. 22 Pump system

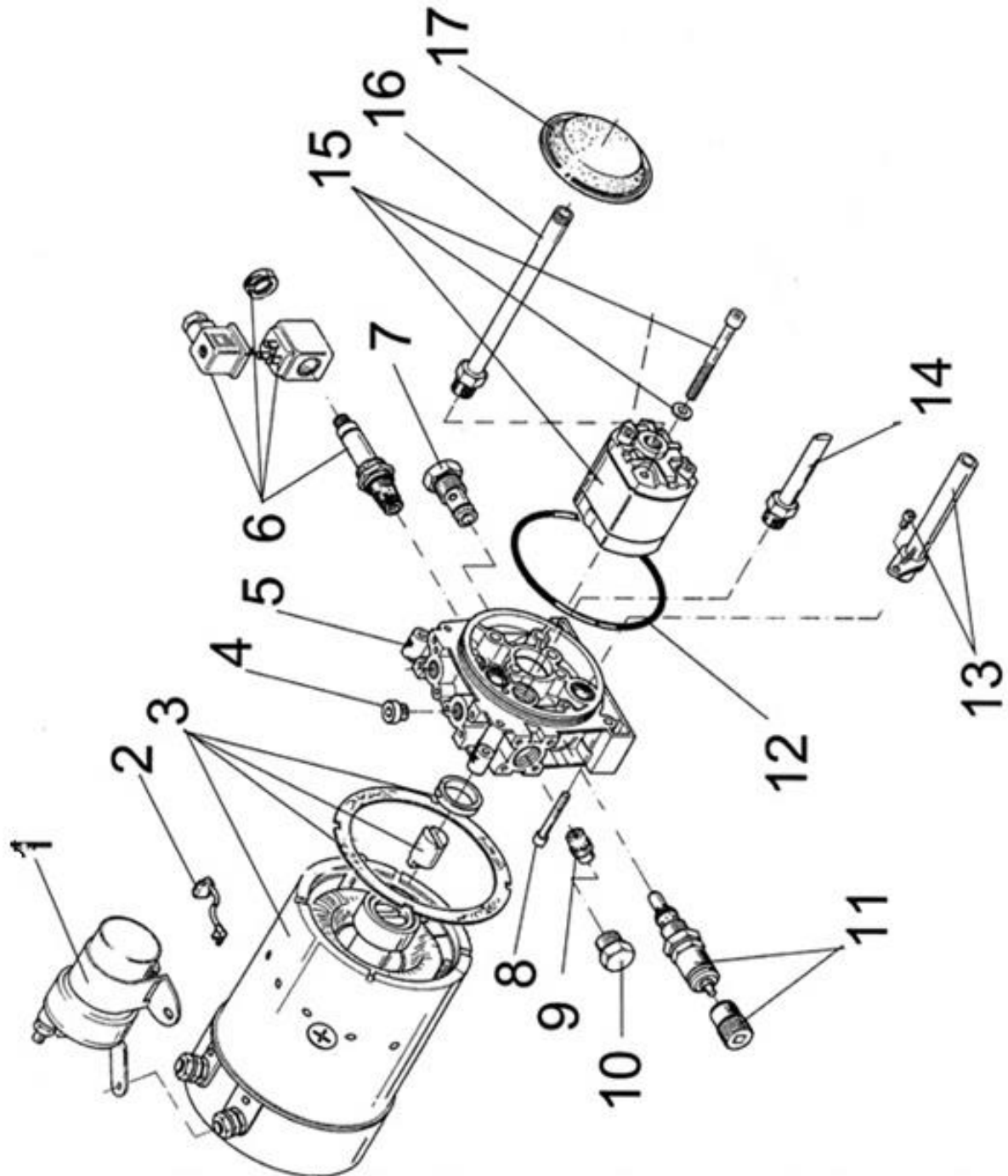


Fig. 22 Pump system

No.	Parts No.	Item	Qty.	Note	Standard
1	2040334001	Start relay	1		
2	9000003582	Carbon brush(assembly)	1		
3	9000003583	Motor	1		
4	2000323001	Plug	1		
5	2000300002	Valve	1		
6	2000335003	Solenoid valve	1		
7	2000335004	Check valve	1		
8	2000323002	Screw	4		
9	9000008870	Flow control valve	1	7.5L/min	
10	2000323003	Bolt	1		
11	2040315003	Overflow valve	1		
12	2000322004	O ring	1		
13	2000317008	Oil return pipe	1		
14	2040317008	Oil return pipe	1		
15	9000008874	Gear pump 3.2cc/r	1		
16	9000008873	Oil suction pipe	1	L=250.50mm	
17	2000300004	Filter	1		

This diagram illustrates the assembly of a vehicle steering system, showing various components and their assembly sequence. The components are numbered 1 through 35, and the assembly steps are indicated by the numbers in the boxes.

The components shown include:

- 1: Steering knuckle assembly
- 2: Steering knuckle pin
- 3: Steering knuckle pin
- 4: Steering knuckle pin
- 5: Steering knuckle pin
- 6: Steering knuckle pin
- 7: Steering knuckle pin
- 8: Steering knuckle pin
- 9: Steering knuckle pin
- 10: Steering knuckle pin
- 11: Steering knuckle pin
- 12: Steering knuckle pin
- 13: Steering knuckle pin
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- 25: Steering knuckle pin
- 26: Steering knuckle pin
- 27: Steering knuckle pin
- 28: Steering knuckle pin
- 29: Steering knuckle pin
- 30: Steering knuckle pin
- 31: Steering knuckle pin
- 32: Steering knuckle pin
- 33: Steering knuckle pin
- 34: Steering knuckle pin
- 35: Steering knuckle pin

The assembly steps are indicated by the numbers in the boxes:

- 1: Steering knuckle assembly
- 2: Steering knuckle pin
- 3: Steering knuckle pin
- 4: Steering knuckle pin
- 5: Steering knuckle pin
- 6: Steering knuckle pin
- 7: Steering knuckle pin
- 8: Steering knuckle pin
- 9: Steering knuckle pin
- 10: Steering knuckle pin
- 11: Steering knuckle pin
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- 18: Steering knuckle pin
- 19: Steering knuckle pin
- 20: Steering knuckle pin
- 21: Steering knuckle pin
- 22: Steering knuckle pin
- 23: Steering knuckle pin
- 24: Steering knuckle pin
- 25: Steering knuckle pin
- 26: Steering knuckle pin
- 27: Steering knuckle pin
- 28: Steering knuckle pin
- 29: Steering knuckle pin
- 30: Steering knuckle pin
- 31: Steering knuckle pin
- 32: Steering knuckle pin
- 33: Steering knuckle pin
- 34: Steering knuckle pin
- 35: Steering knuckle pin

No.	Art No.	Description	Qty.	Note	Standard
1	9000007773	Drive wheel	1		
2	9000008092	Welded long axle	1		
3	0000023184	Bolt	4	M12×40	GB/T5783

4	0000025024	Washer	8	12	GB/T93
5	9000008134	Limit block	2		
6	0000023158	Screw	1	M10×30	GB/T70.1=ISO4762
7	0000025032	Washer	4	12	GB/T95
8	0000023082	Screw	4	M12×35	GB/T70.1=ISO4762
9	0000023088	Screw	4	M10×25	GB/T70.1=ISO4762
10	0000023006	Washer	8	10	GB/T93
11	9000008145	Welded fixing frame	1		
12	0000026015	Retaining ring for axle	1	Ø55	GB/T894.1
13	0090000456	Bearing	1	61811-Z	GB/T276=ISO3290
14	9000008149	Welded wheel frame	1		
15	0000027085	Bearing	1	51111	GB/T301
16	0000026013	Retaining ring for axle	4	Ø25	GB/T894.1
17	9000008152	Adjusting block	4		
18	9000008153	Roller	4		
19	0090000457	Screw	4	M12×20	GB/T77
20	9000008147	Spring guide	2		
21	2000231002	Spring	2	Ø7×Ø40×342	
22	2000208001	Spring guide bushing	2	Ø32×Ø29×165	
23	9000008148	Spring press cover	2		
24	2000223001	Bolt	2	M10×180	
25	9000008144	Adjusting stud	2		
26	9000008143	Dust cover	1		
27	0000026020	Retaining ring for hole	1	Ø70	GB/T893.1
28	9000008151	Nylon guide sleeve	1		
29	0000030002	Oil cup	1	M6	JB/T7940.1
30	9000008150	Welded guide sleeve	1		
31	0000025002	Washer	4	10	GB/T95
32	0000023038	Bolt	4	M10×25	GB/T5783
33	9000008429	Drive motor wiring harness	1		
34	2240205002	Reinforcement hoop A	1		
35	2240205003	Reinforcement hoop B	1		
①	9000008146	Spring assembly	2		

Fig. 24 Drive wheel(43EL)

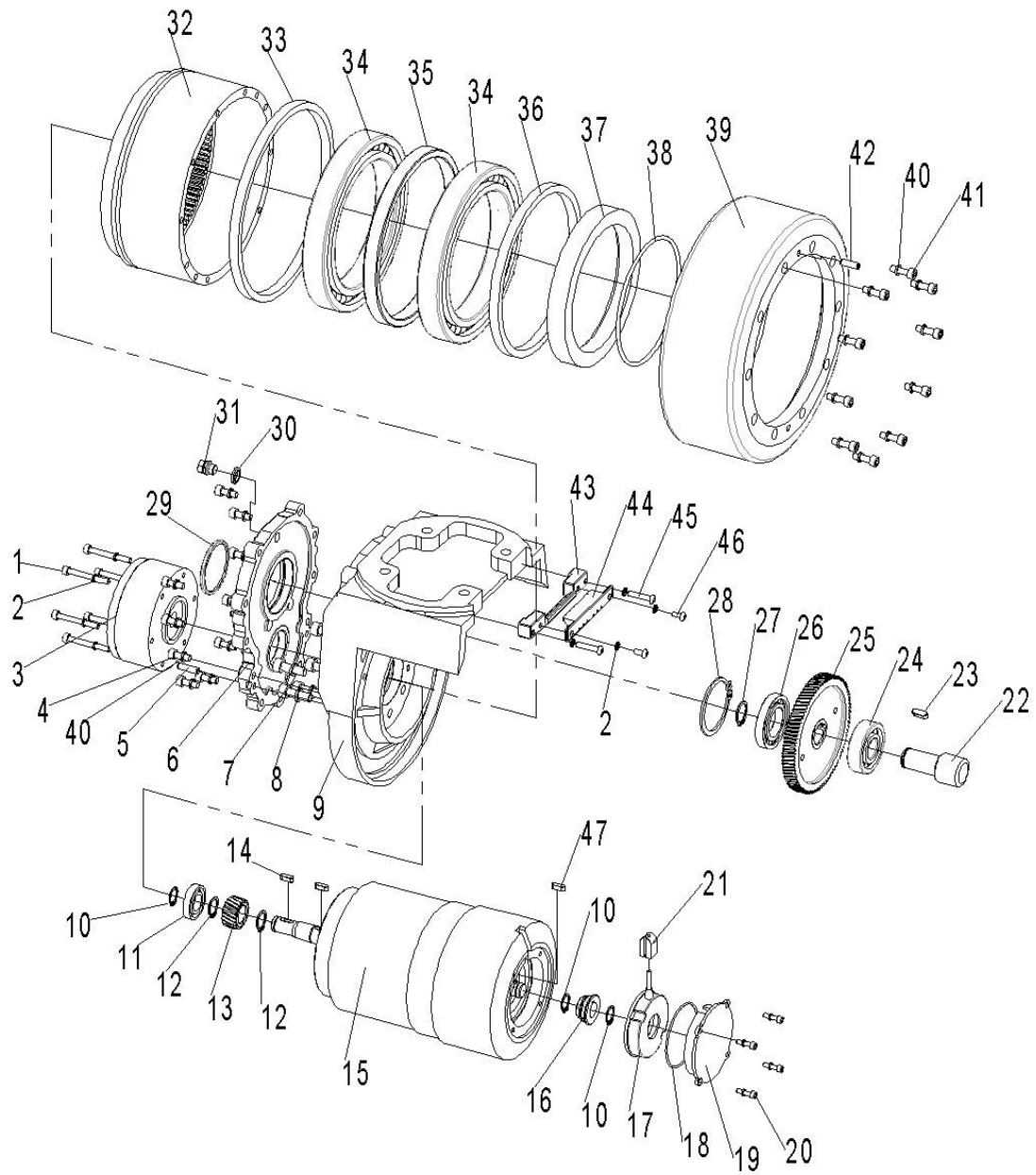


Fig.24 Drive wheel(43EL)

No.	Art No.	Description	Qty.	Note	Standard
1	0090000101	Screw	6	M5×45	GB/T70.1=ISO4762
2	0000025012	Spring washer	10	5	GB/T93-1987
3	9000008846	Brake	1		
4	0000023040	Screw	11	M6×16	GB/T70.1=ISO4762
5	0000028175	Pin	2	6×22	GB/T120.2-
6	9000008847	Gear box cover	1		
7	0000023047	Screw	5	M8×25	GB/T70.1=ISO4762
8	0000025012	Washer	5	8	GB/T93
9	9000008848	Gear box	1		
10	0000026004	Retaining ring	3	15	GB894.1
11	0000022232	Oil seal	1	17×35×7	GB/T9877
12	0000026005	Retaining ring	2	17	GB/T894.1
13	9000008849	Small gear	1		
14	0000036002	Flat key	2	A5×14	GB/T1096
15	9000008850	AC motor	1		
16	9000008851	Shaft sleeve	1		
17	9000008852	Sensor	1		
18	0000022002	O seal ring	1	6.3×1.8	GB/T3452.1
19	9000008853	Protective cover	1		
20	0090000473	Screw	4	M4×10	GB/T70.3=ISO10642
21	9000008854	Bushing	1		
22	9000008855	Gear shaft	1		
23	0000036001	Flat key	1	A6×16	GB/T1096
24	0000027067	Bearing	1	6304	GB/T276=ISO3290
25	9000008856	Big gear	1		
26	0090000285	Bearing	1	6006	GB/T276=ISO3290
27	0000026003	Retaining ring	1	20	GB/T894.1
28	0000026007	Retaining ring	1	55	GB/T893.1
29	9000008857	Cover	1		
30	0000025021	Washer	1	10	JB/T982
31	2000303001	Vent plug	1	10	
32	9000008858	Internal gear	1		
33	0000022007	Oil seal	1	188×202×10	GB/T9877

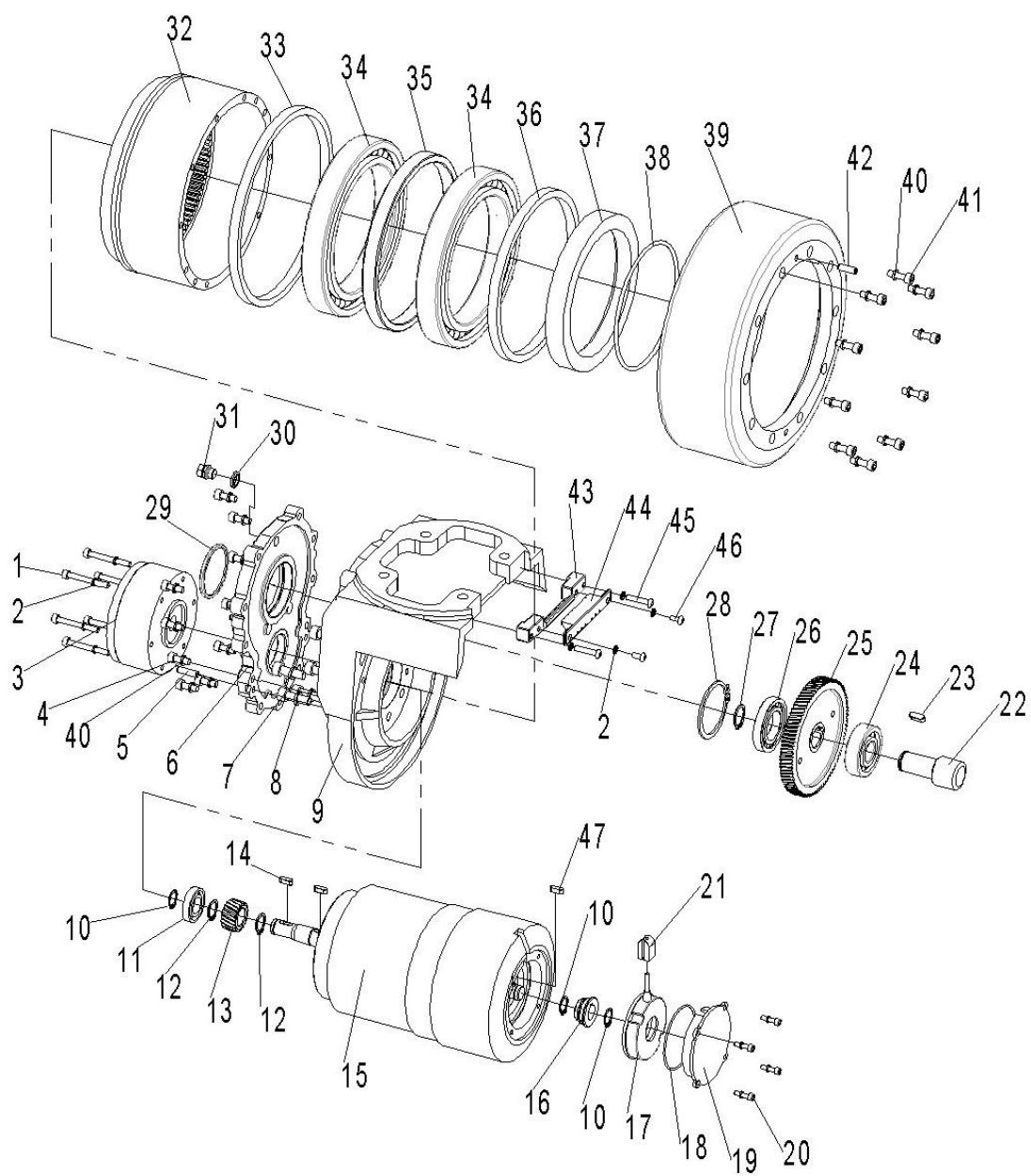


Fig.24 Drive wheel(43EL)

34	0090000453	Bearing	2	61926-2LS	GB/T276=ISO3290
35	9000008859	Bushing	1		
36	0090000178	Oil seal	1	160×175×10	GB/T9877
37	9000008860	Oil seal seat	1		
38	0090000454	O ring	1	125×3.55	GB/T3452.1
39	9000008861	Drive wheel	1		
40	0000025006	Washer	21	6	GB/T93
41	0000023062	Screw	10	M6×20	GB/T70.1=ISO4762
42	0000028177	Roll pin	2	6×20	GB/T119.1
43	9000008862	Down wire holder	1		
44	9000008863	Upper wire holder	1		
45	0000023065	Screw	2	M5×25	GB/T70.2=ISO7380
46	0090000041	Screw	2	M5×10	GB/T70.2=ISO7380
47	0090000475	Flat key	1	A 5×10	GB/T1096

Fig. 25 Drive system(electrical steering)

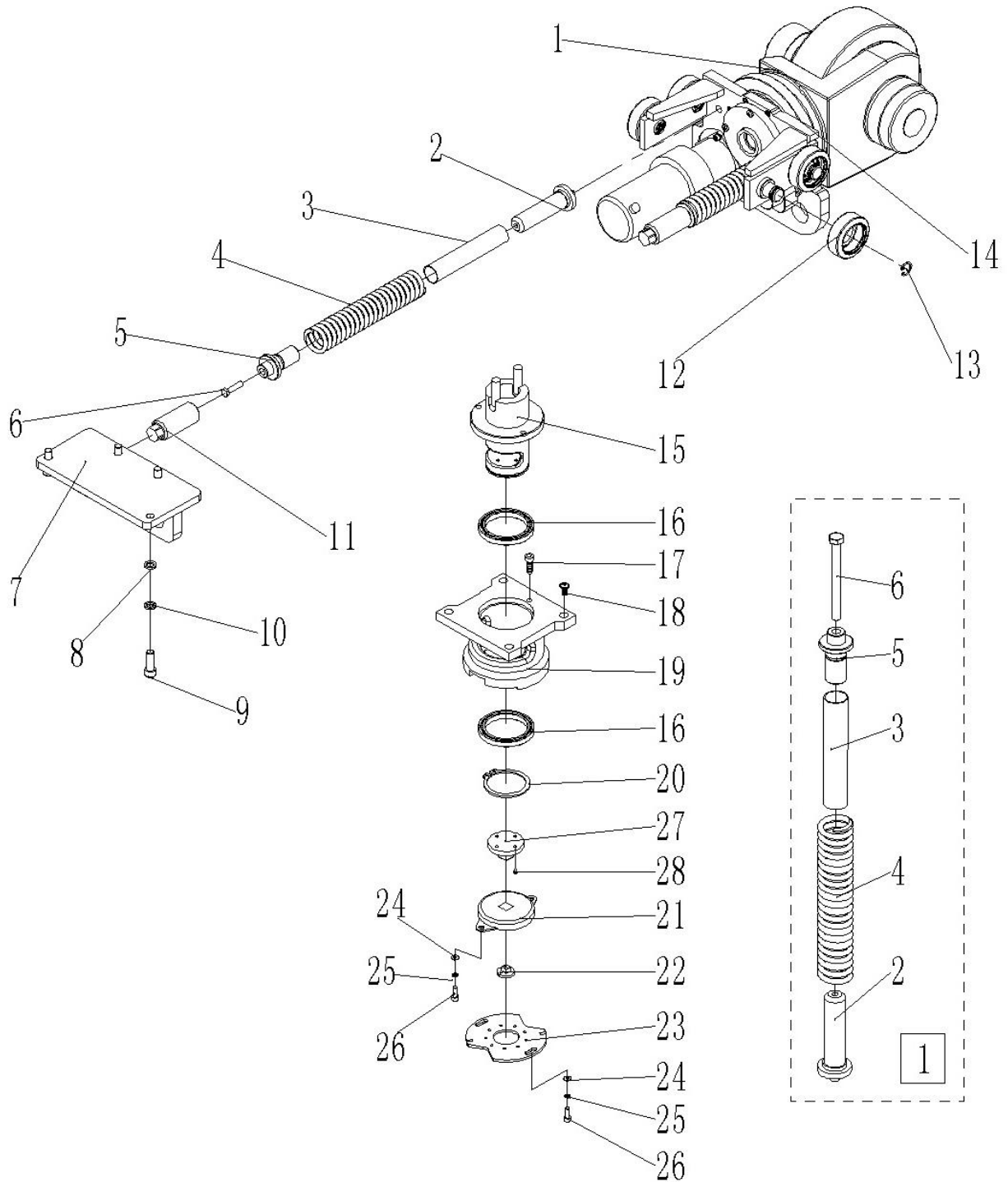


Fig.25 Drive system(electrical steering)

No.	Art No.	Description	Qty.	Note	Standard
1	9000007777	Drive wheel	1	Ø252	
2	9000008147	Spring guide	2		
3	2000208001	Spring guide bushing	2		
4	2000231002	Spring	2		
5	9000008148	Spring press cover	2		
6	2000223001	Bolt	2	M8×35	
7	9000008145	Welded fixing frame	1		
8	0000025032	Washer	4	12	GB/T95
9	0000023471	Screw	4	M12×35	GB/T70.1=ISO4762
10	0000025024	Washer	4	12	GB/T93-1987
11	9000008144	Adjusting stud	2		
12	9000008153	Roller	4		
13	0000026013	Retaining ring for axle	4	25	GB/T894.1
14	9000009195	Welded whee frame	1		
15	9000007422	Welded axle seat	1		
16	9000000240	Bearing 61810	2	65×50×7	GB/T276-61810
17	0000023042	Screw	3	M6×10	GB/T70.1=ISO4762
18	0000023034	Screw	4	M10×20	GB/T70.1=ISO4762
19	9000007423	Welded fixing frame	1		
20	0000026043	Retaining ring for axle	1	50	GB/T894.1
21	9000007806	Damper	1		
22	9000007421	Linking block	1		
23	9000007693	Potentiometer fixed plate	1		
24	0000023032	Washer	4	5	GB/T95-2002
25	0000025022	Washer	4	5	GB/T93-1987
26	0000023311	Screw	4	M5×10	GB/T70.1=ISO4762
27	9000007424	Nylon block	1		
28	0000023073	Screw	4	M4×10	GB/T70.1=ISO4762
㉑	9000008146	Spring assembly	2		

Fig. 26 Drive wheel(23EL)

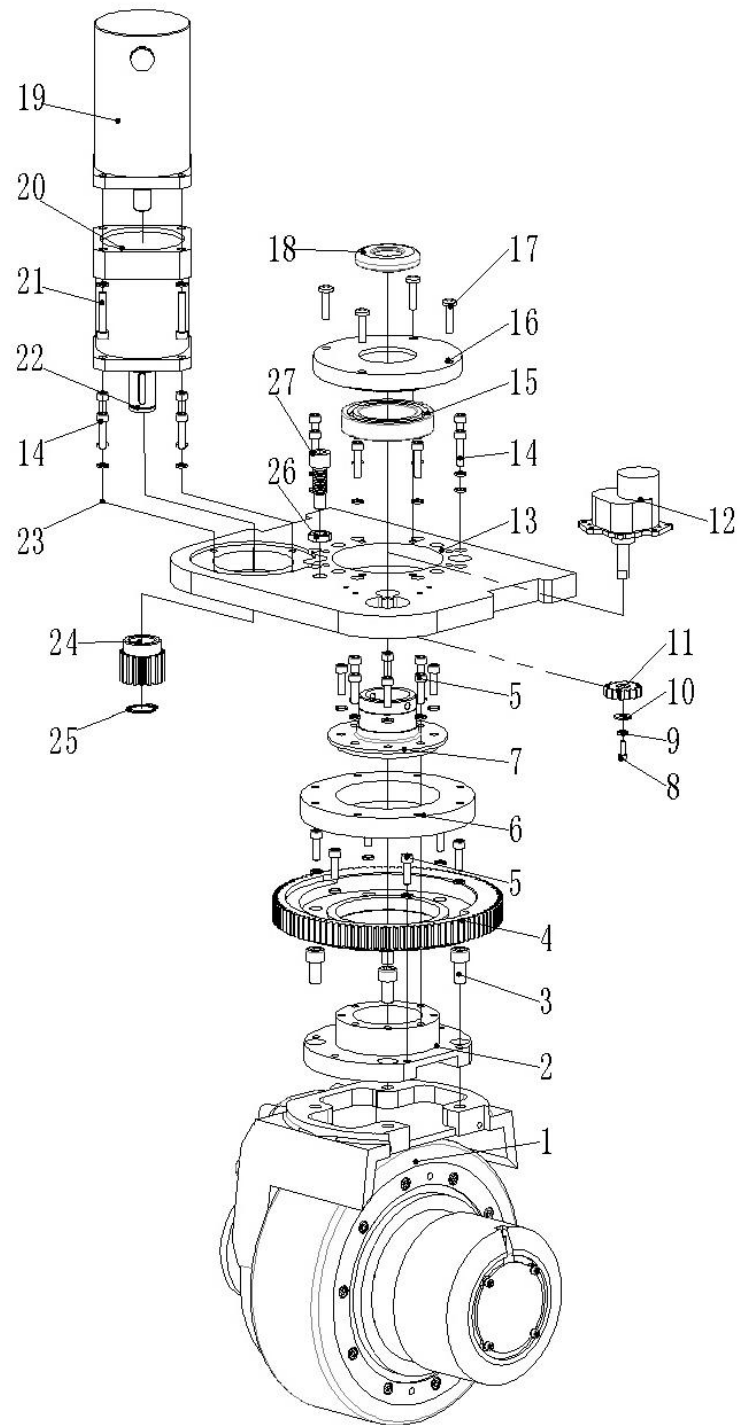


Fig.26 Drive wheel(23EL)

No.	Art No.	Description	Qty.	Note	Standard
1	9000007773	Drive wheel	1		
2	9000009200	Pivoting support	1		
3	0000023034	Screw	4	M10×20	GB/T70.1=ISO4762
4	9000009201	Steering big gear	1		
5	0000023020	Screw	24	M6×20	GB/T70.1=ISO4762
6	9000009202	Pivoting support	1		
7	9000009203	Bearing seat	1		
8	0000023056	Screw	1	M4×12	GB/T70.1=ISO4762
9	0000025009	Washer	1	4	GB/T93
10	0000025133	Washer	1	5	GB/T96.1
11	9000009204	Gear for sensor	1		
12	9000009205	Steering sensor	1		
13	9000009195	Welded whee frame	1		
14	0000023030	Screw	12	M6×25	GB/T70.1=ISO4762
15	0000027065	Bearing 6010	1		GB/T276=ISO3290
16	9000009206	End cap	1		
17	0000023277	Screw	4	M6×25	GB/T818=ISO7045
18	9000009207	Rubber sleeve	1		
19	9000009208	Steering motor	1	200W24V	
20	9000009209	Steering motor gear box	1		
21	0000023090	Screw	4	M6×35	GB/T70.1=ISO4762
22	0090000118	Flat key	1	6×28	GB/T1096
23	0000025010	Washer	51	6	GB/T93
24	9000009210	Steering small gear	1		
25	0000026040	Retaining ring	1	22	GB/T894.1
26	0000024116	Nut	1	M12	GB/T6172.1
27	9000009211	Screw	1		特制

Fig. 27 Instrument components

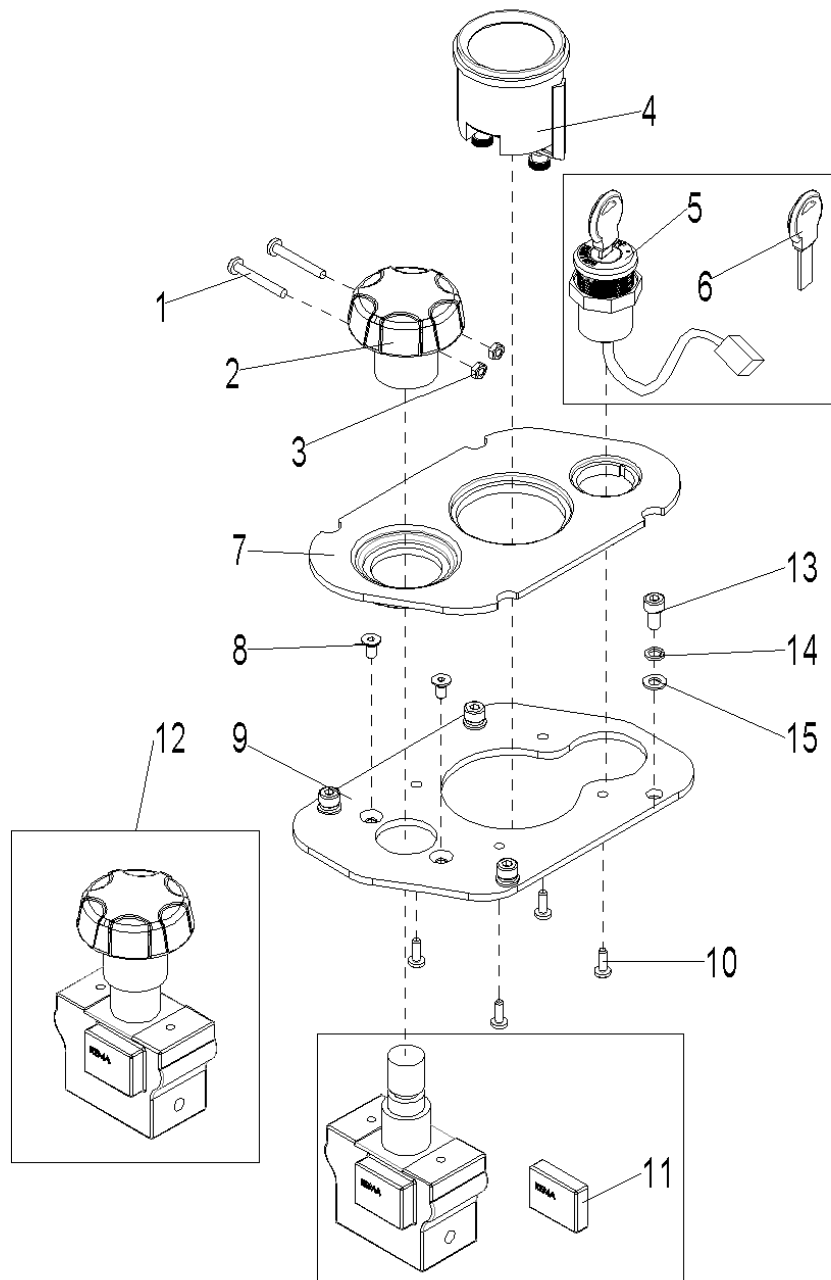


Fig.27 Instrument Components

No.	Art No.	Description	Qty.	Note	Standard
1	0000023685	Screw	2	M3×25	GB/T818=ISO7045
2	9000008516	Emergency button head	1		
3	0000024002	Nut	2	M3	GB/T6170=ISO4032
4	1000434025	Indicator	1	CURTIS 803	
5	9000008326	Key switch	1	LKS-101A	
6	9000008519	Key	1		
7	9000007938	Plastic plate	1		
8	0000023215	Screw	2	M5×10	GB/T70.3=ISO10642
9	9000007939	Fixing plate	1		
10	0090000272	Screw	4	M4×12	GB/T6560
11	9000008517	Proximity switch	1		
12	9000008515	DC power switch	1	ZDK32-350	
13	0000023053	Screw	4	M6X12	GB/T70.1=ISO4762
14	0000025010	Washer	4	6	GB/T93
15	0000023055	Washer	4	6	GB/T95

Fig. 28 Tiller arm assembly

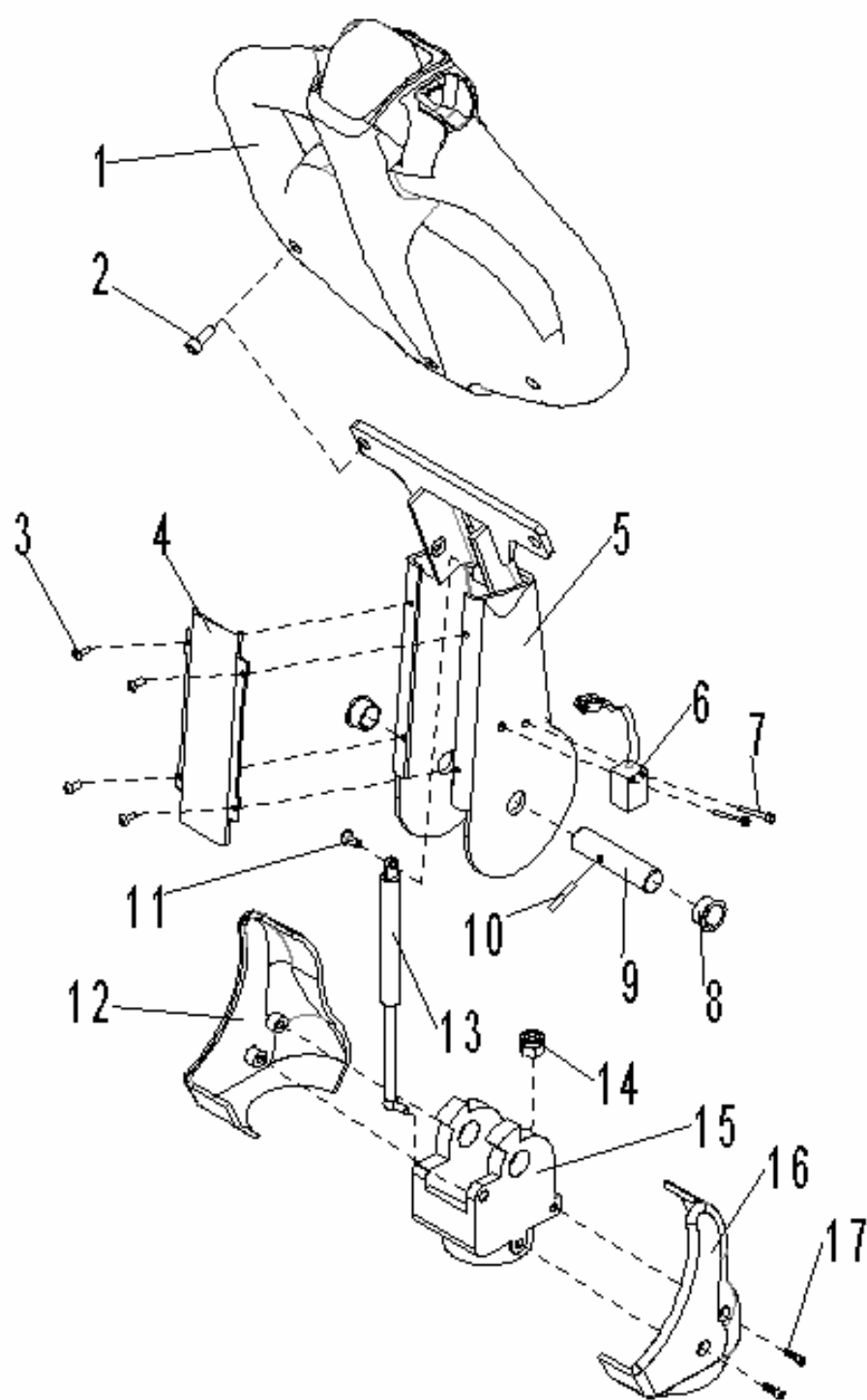


Fig.28 Tiller arm assembly

No.	Art No.	Description	Qty.	Note	Standard
1	1100100001	Control tiller	1	C94300-90 (REMA)	
2	0000023232	Bolt	2	M8×25	GB/T5783-2000
3	1000123003	Screw	4	M4×8	GB/T70.2=ISO7380
4	9000007926	Cover board	1	with platform	
	9000009961	Long cover board	1	without platform	
5	9000007925	tiller arm	1	with platform	
	9000009962	Welded long tiller arm	1	without platform	
6	9000008327	Proximity switch	1	NBN5-F7-E2	
7	0000023075	Screw	2	M3×20	GB/T70.1=ISO4762
8	1000113001	Shoulder harness	2	Ø17×Ø19×11	
9	9000007928	Tiller axle	1		
10	0000028003	Elastic cylindrical pin	1	Ø4×24	GB/T879.1=ISO8752
11	0000023044	Screw	1	M8×20	
12	9000007930	Left tiller cover	1		
13	1010121001	Air spring	1	400N	
	1000121001			450N (long tiller arm)	
14	0000023005	Lock nut	2	M10	GB/T889.1=ISO7040
15	9000007929	Tiller seat	1		
16	9000007931	Right tiller cover	1		
17	0000023519	Screw	4	M6×10	GB/T70.2=ISO7380

Fig. 29 Tiller head

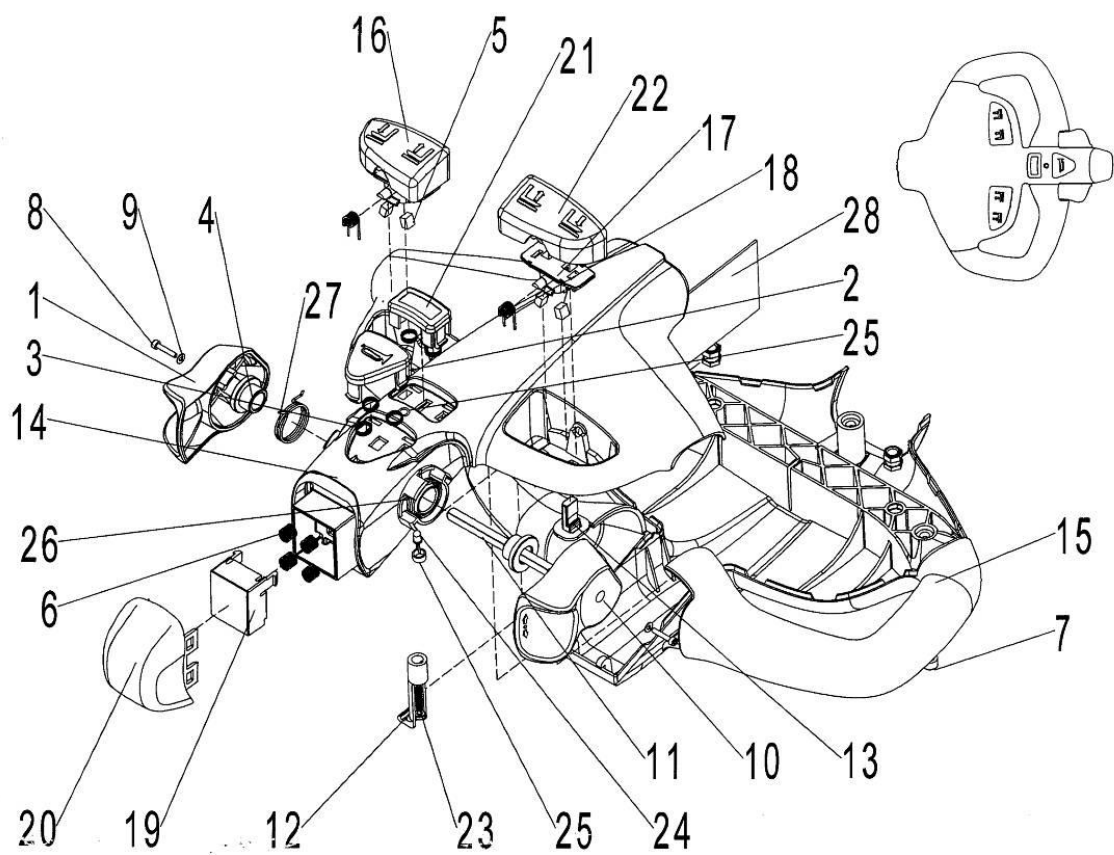


Fig.29 Tiller head

No.	Art No.	Description	Qty.	Note	Standard
1	1010114001	Left driving button	1		

2	1000114015	Horn button	1		
3	1000131009	Spring for horn button	5		
4	1000113004	Bushing for camshaft	2		
5	1000137001	Magnet	4		
6	1000131010	Spring for emergency button	4		
7	0000023058	Screw	3	M6 ×10	GB/T70.1=ISO4762
8	0000023057	Screw	2	M3 ×16	GB/T70.1=ISO4762-200
9	0000025017	Washer	2	3	GB/T95-200
10	1010114003	Right driving button	1		
11	1000107002	Shaft for driving button	1		
12	1000137002	Clip for PCB board	1		
13	1000134005	Pressure sensor	2		
14	1000103012	Upper part of handle	1		
15	1000103013	Under part of handle	1		
16	1000114017	Left elevator button	1		
17	1000137003	Magnet assembly seat	2		
18	1000131011	Torsional spring	2		
19	1000114018	Assembly seat for spring of emergency button	1		
20	1000114020	Emergency button	1		
21	1000114021	Cover for option switch	1		
22	1000114022	Right elevator button	1		
23	0000023060	Screw	1	ST4.2 ×25	GB/T845
24	1000134006	LED bi-colour light	1		
25	1000103014	Seat for LED bi-colour light	1		
26	1000131012	Torsional spring for left driving button	1		
27	1000131013	Torsional spring for right driving button	1		
28	1100135001	PCB	1		

Easy worn parts list

No.	Art No.	Description	Qty.	Fig./Position	Note
1	9000007782	Spring card buckle	8	Fig.3/2	Appearance
2	9000007780	Air spring	1	Fig.4/5	Protective arm
3	9000007897	Positioning spring	1	Fig.4/9	
4	9000007799	Shoulder harness	4	Fig.5/3	Foldable platform
5	2000421001	Air spring	1	Fig.5/6	
6	9000008897	Suspension components	2	Fig.5/27	
7	0000027001	Bearing 6204	4	Fig.8/15	Steering wheel
8	2210416001	Castor	2	Fig.8/17	
9	9000008896	Wheel set	2	Fig.8/19	
10	2000416002	Load roller	4	Fig.9/4	Load wheel
11	0000027001	Bearing 6204	8	Fig.9/5	
12	9000008895	Load wheel set	4	Fig.9/7	
13	1000434040	Fuse 10A	1	Fig.11/3	Electronic control assembly(manual steering)
14	1020434001	Fuse 200A	1	Fig.11/14	
15	2210434004	Fuse 150A	1	Fig.11/15	
16	1020434001	Fuse 200A	1	Fig.12/14	Electronic control assembly(electrical steering)
17	2210434004	Fuse 150A	1	Fig.12/15	
18	1000434040	Fuse 10A	1	Fig.12/18	
19	3042434014	Fuse	1	Fig.12/19	
20	0000022029	O ring 50×3.1	2	Fig.21/3	Cylinder
21	9000009182	Support ring 46×50×15	2	Fig.21/5	
22	9000009178	Y ring for hole 40×50×6/7	2	Fig.21/6	
23	9000009169	Dust ring 40×48×5/6.5	2	Fig.21/7	
24	9000009952	Seal assembly	2	Fig. 21/1	
25	9000003582	Carbon brush(assembly)	1	Fig.22/2	Pump Station
26	0000022002	O seal ring	1	Fig.24/18	Drive wheel
27	1000113001	Shoulder harness	2	Fig.28/8	Tiller arm assembly
28	1010121001	Air spring	1	Fig.28/13	