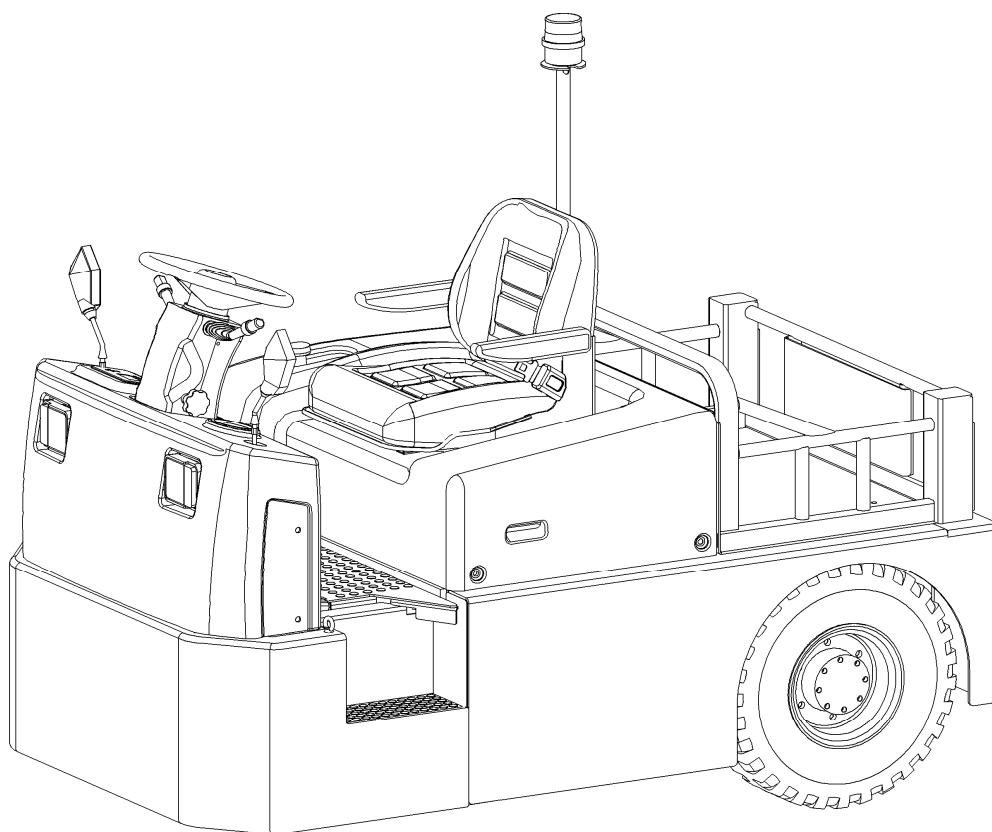


SPARE PARTS LIST

Electric Tow Tractor T60N



Version 10/2017

From truck identification number:

T60N-BPT-001-CHN

Catalogue

Fig. 1 Label.....	1
Fig. 2 Control panel.....	2
Fig. 3 Steering wheel components	4
Fig. 4 Warning light assembly	8
Fig. 5 Driving brake assembly	10
Fig. 6 Foot brake components.....	12
Fig. 7 Pedal assembly	14
Fig. 8 Battery pallet assembly	16
Fig. 9 Battery cover assembly	18
Fig. 10 Chassis assembly	20
Fig. 11 Drive motor assembly	24
Fig. 12 Driving axle components.....	26
Fig. 13 Brake.....	28
Fig. 14 Gearbox.....	32
Fig. 15 Tyre	36
Fig. 16 Electrical control components	38
Fig. 17 Cables.....	40
Easy worn parts list.....	42

Fig. 1 Label

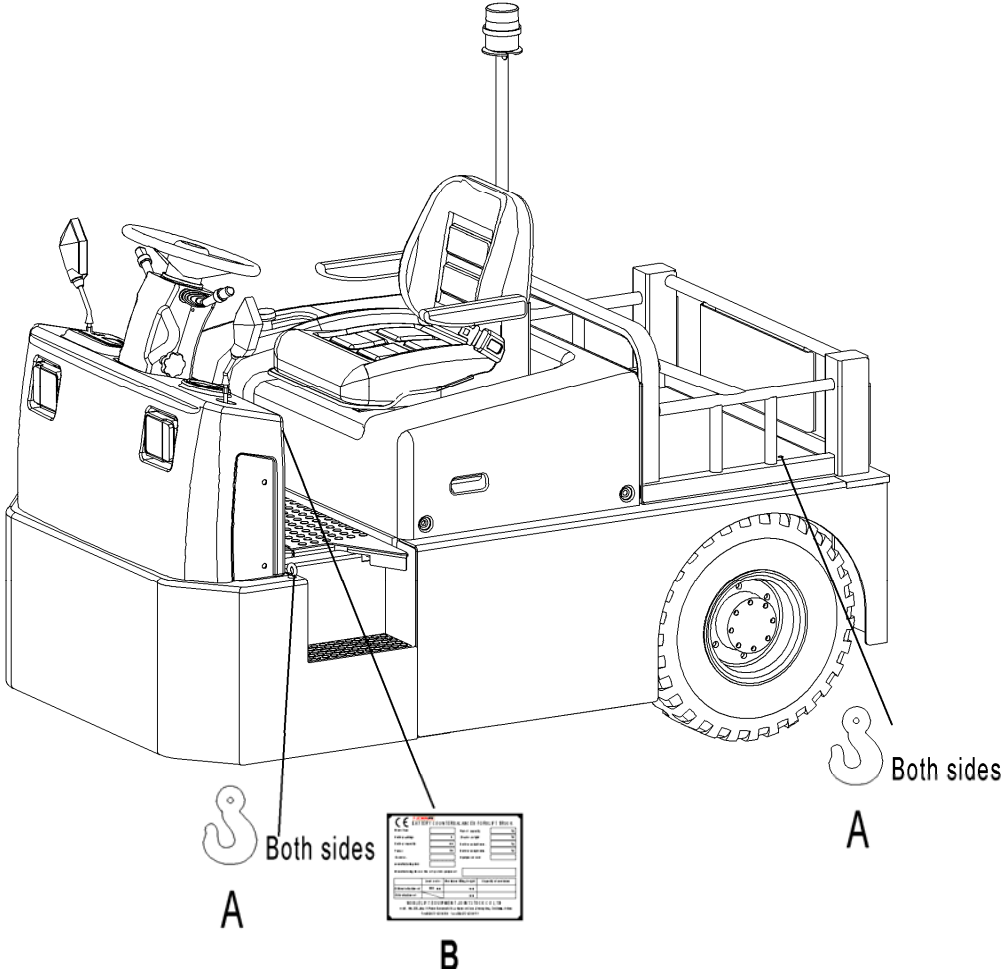


Fig.1 Label

No.	Art No.	Description	Qty.	Note
A	941200300001	Crane hook label	2	
B	213047502001	ID-plate	1	

Fig. 2 Control panel

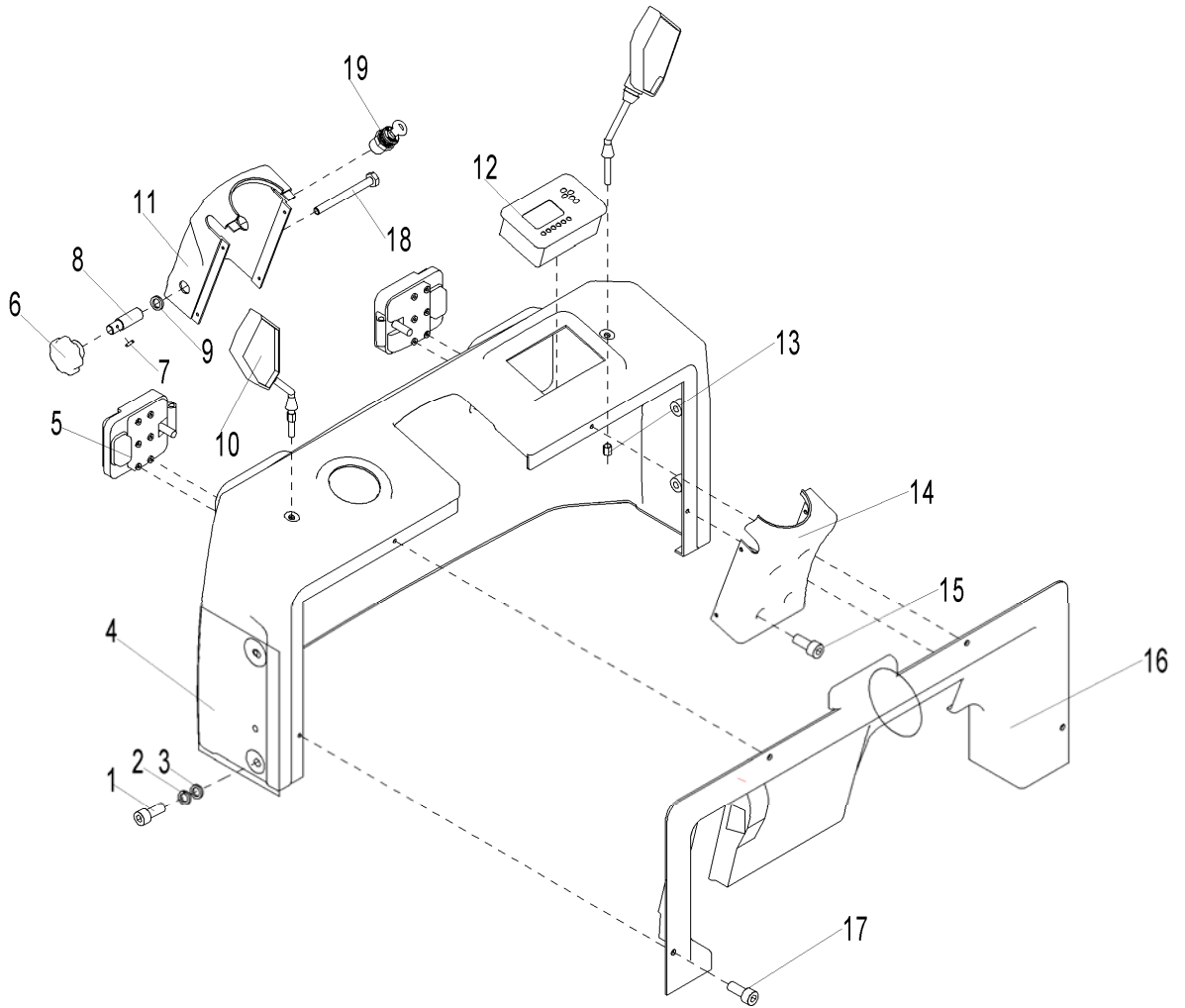


Fig. 2 Control Panel

No.	Art No.	Description	Qty.	Note
1	910100100047	Bolt	4	GB5782-M12X40-8.8
2	910400500008	Spring washer	4	GB93-12
3	910400100008	Flat washer	4	GB5782-M12X40-8.8
4	231010020102	Front cover	1	
5	922000100016	Headlight	2	EF420-050402000
6	911000300001	Lever	1	JB7274.4-16X63
7	910600400015	Dowel pin	1	GB879.1-4X30
8	231015520117	Bolt	1	M12X50
9	910400100007	Flat washer	1	GB97.1-10-200HV
10	231049510100	Rear view mirror	2	
11	231010020101	Cover 2 (steering wheel)	1	
12	921100100011	Panel	1	3501-12-80V
13	910300200002	Nut	2	GB6171-M10x1.25-10
14	231010020100	Cover 1(steering wheel)	1	
15	910200300018	Screw	4	GB70.2-M6X16-8.8
16	231010020103	Rear cover	1	
17	941100100001	Screw	4	M8X12-8.8
18	231015520118	Axle	1	M12X125
19	920200200002	Key switch KEYA	1	

Fig. 3 Steering wheel components

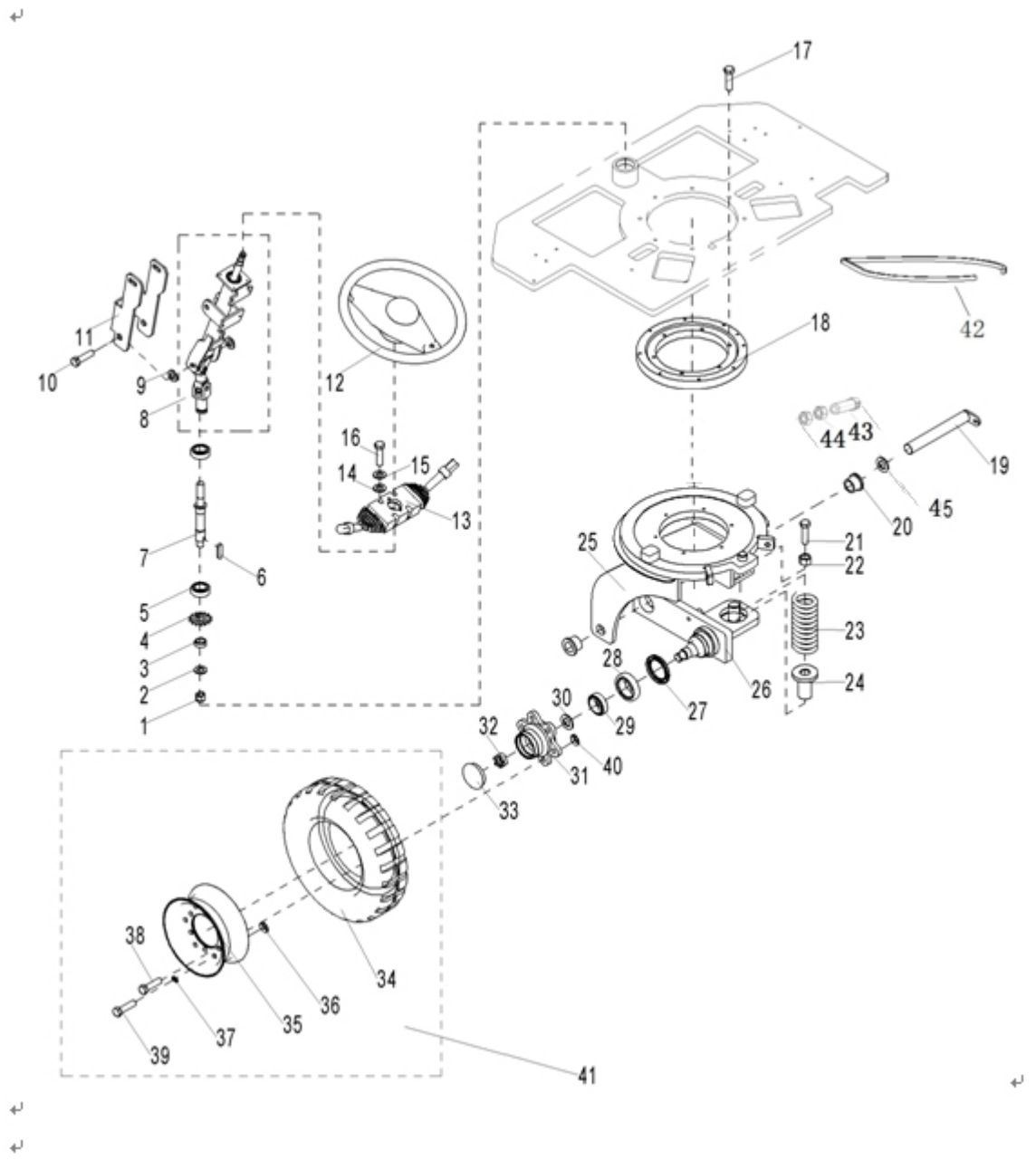


Fig. 3 Steering Wheel Components

No.	Art No.	Description	Qty.	Note
1	910300500009	Nut	1	GB889.1-M18-10
2	910400100011	Flat washer	1	GB97.1-18-200HV
3	402911020000	Washer	1	32X25X5
4	402911020001	Chain pulley	1	P12.7,Z14
5	910700200020	Bearing	2	GB276-6205-2RS
6	910600800009	Flat key	1	GB1096-6X6-C
7	231015520115	Key	1	
8	231015510102	Tube components	1	
9	253515020020	Ring	2	
10	253515020019	Bolt	2	M10X24
11	231015520114	Support frame	1	
12	253515010007	Steering wheel	1	
13	920200800013	Combination switch	1	JK361B-1003
14	910400100004	Flat washer	4	GB97.1-5-200HV
15	910400500004	Spring washer	4	GB93-5
16	910200500040	Screw	4	GB818-M5X16-4.8
17	910200200062	Screw	16	GB70.1-M8X45-8.8
18	231015520116	Support ring	1	
19	216513510004	Axle with plate	1	
20	940500400009	Bearing	2	

Steering wheel components

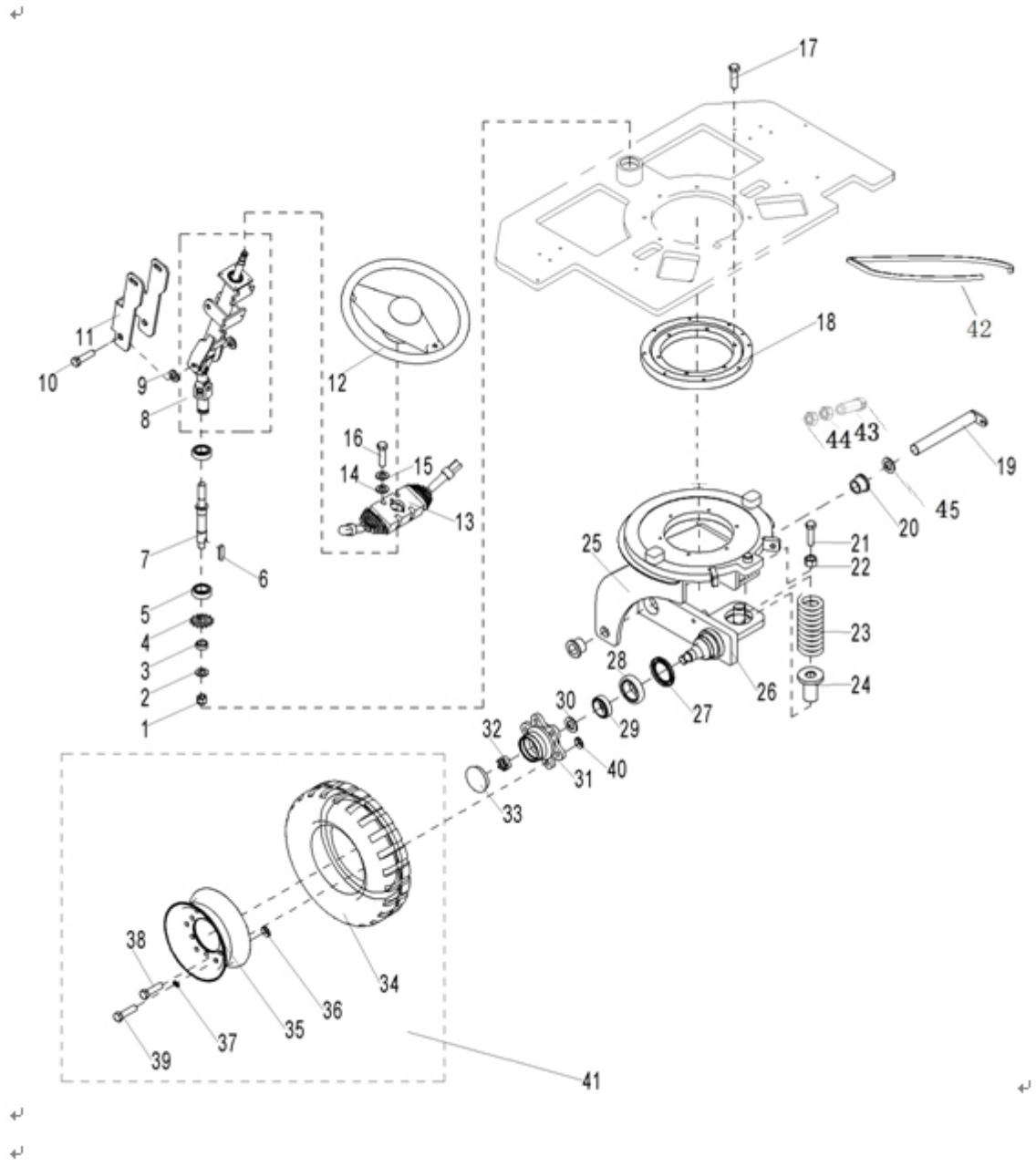


Fig. 3 Steering Wheel Components

No.	Art No.	Description	Qty.	Note
21	910100300083	Bolt	1	GB5783-M20X60-8.8
22	910300100012	Nut	1	GB6170-M20-10
23	231015520133	Spring	1	
24	231015520128	Guide stud	1	
25	23101550100	Mounting base assembly (Support ring)	1	
26	231015510101	Mounting base assembly (front wheel)	1	
27	910800700004	Oil seal	1	KB64X82X7
28	910700600004	Bearing	1	GB297-30208
29	910700600002	Bearing	1	GB297-30206
30	910400100014	Flat washer	1	GB97.1-24-200HV
31	231015520017	Wheel hub	1	
32	231015520018	Nut	2	M24X2
33	231015520022	Wheel hub cover	1	
34	231013010002	Tyre	1	4.00-8(Chao Yao solid)
35	254115510002	Wheel hub assembly	1	3.00D-8
36	910300100008	Nut	6	GB6170-M12-10
37	910400500008	Spring washer	6	GB93-12
38	231015520020	Bolt	6	
39	255013020001	Bolt	6	M12X1.25X26
40	231015520019	Nut	6	
41	231015501101	Tyre assembly	1	
42	231015510105	roller chain 08B-1-86	1	GBT 1243-2006
43	910300100007	Nut	4	M10
44	231015520015	Bolt	2	M10x55
45	231015520134	washer $\Phi 55 \times \Phi 30 \times 5.5$	2	

Fig. 4 Warning light assembly

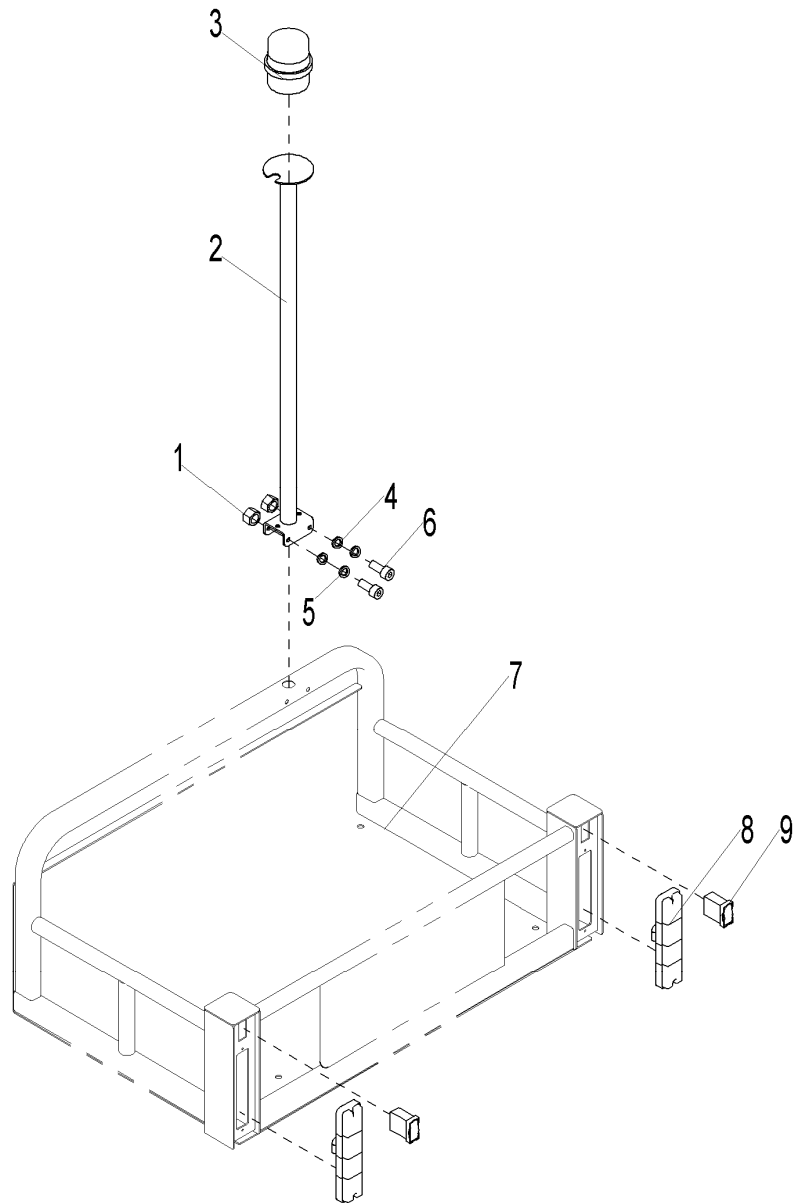


Fig. 4 Warning Light Assembly

No.	Art No.	Description	Qty.	Note
1	910300100006	Nut	2	GB6170-M8-10
2	231033510100	Support frame welding(warning light)	1	
3	922000100004	Warning light	1	PDL-LXJD-01Y
4	910400100006	Flat washer	2	GB97.1-8-200HV
5	910400500006	Spring washer	2	GB93-8
6	910200200062	Screw	2	GB70.1-M8X45-8.8
7	231021510101	Trunk welding	1	
8	922000100009	Tail light	2	XH8-16-1-DC24V
9	920200800016	Rocker switch	2	JK931

Fig. 5 Driving brake assembly

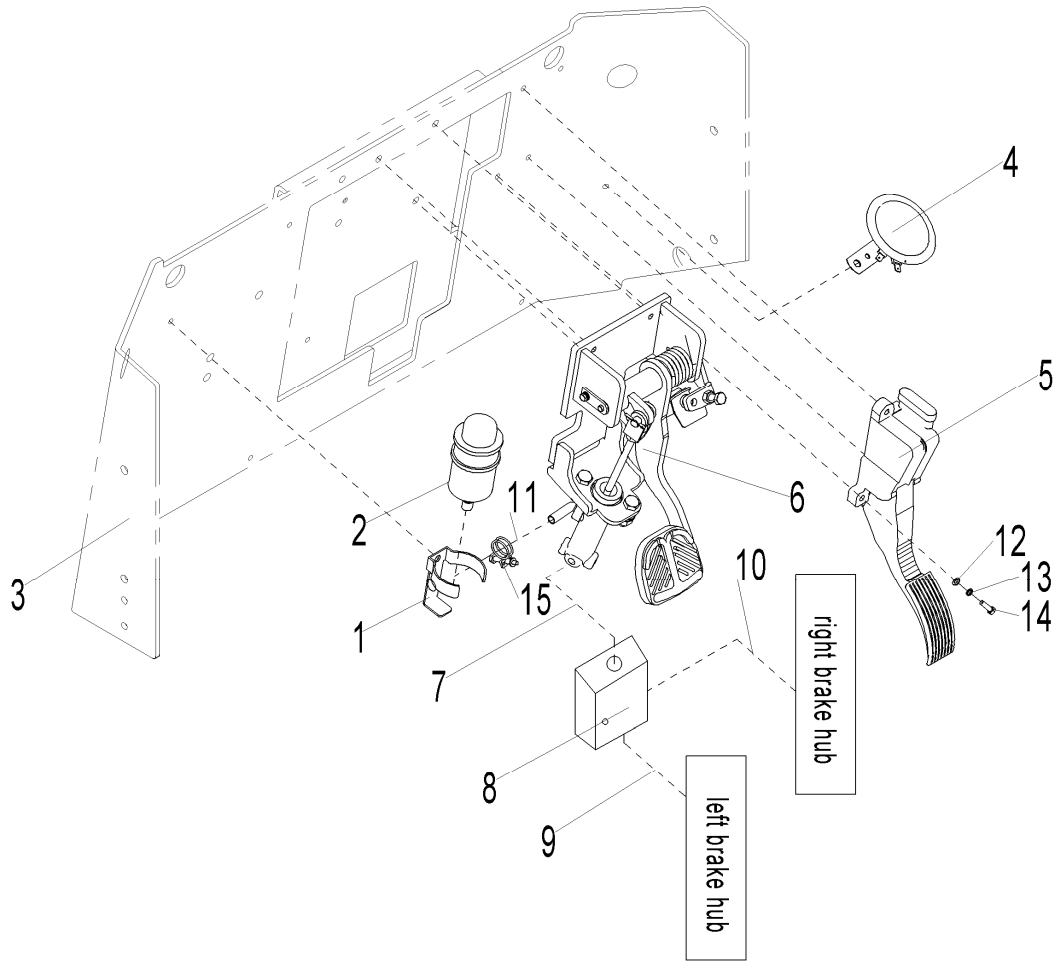


Fig. 5 Driving Brake Assembly

No.	Art No.	Description	Qty.	Note
1	272011520010	Support frame (grease nipple)	1	30458-00002
2	275011520020	Brake grease nipple	1	30458-00001
3	231021510105	Frame welding	1	
4	920500100001	Horn	1	125-DC24V
5	921700100011	Accelerator	1	MO126D1
6	231011510100	Foot brake components	1	
7	231011520100	Hydraulic tube (front)	1	
8	275011520019	Joint 5-3xM10x1	1	16957-00003
9	231011520101	Hydraulic tube (left)	1	
10	231011520102	Hydraulic tube (right)	1	
11	231011520103	Brake oil tube	1	8X1.5
12	910400100005	Flat washer	2	GB97.1-6-200HV
13	910400500005	Spring washer	2	GB93-6
14	910200200038	Screw	2	GB70.1-M6x25-8.8
15	911000600001	Hoop	1	QC/T390-(11-14)

Fig. 6 Foot brake components

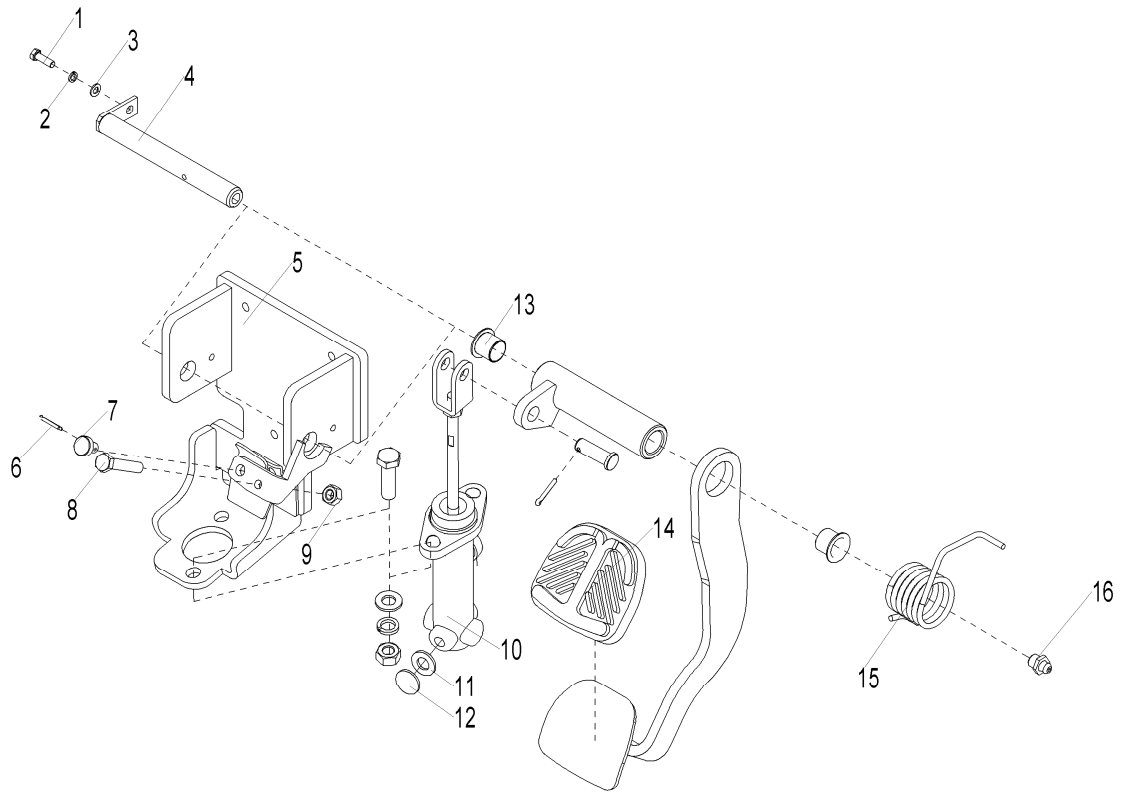


Fig. 6 Foot Brake Components

No.	Art No.	Description	Qty.	Note
1	910100300003	Bolt	1	GB5783-M5X12-8.8
2	910400500004	Spring washer	1	GB93-5
3	910400100004	Flat washer	1	GB97.1-5-200HV
4	255011510003	Axle with plate	1	16x135
5	231015510102	Mounting base(brake)	1	
6	910600600015	Split pin	1	GB91-2X20
7	255011520010	Damping pad	1	
8	910100300027	Bolt	2	GB5783-M8x45-8.8
9	910100300027	Nut	2	GB6170-M8-10
10	255015510001	Brake pump assembly	1	
11	910800900006	Washer		JB982-10
12	263023520015	Screw plug (filler point)	1	M10X1
13	940500200016	Bushing (with shoulder)	2	16x18x16-sf-1
14	255011520013	Rubber pedal	1	
15	25501152008	Torsional spring	1	36x4x33
16	911200100004	Grease nipple	1	JB7940.1-M10X1

Fig. 7 Pedal assembly

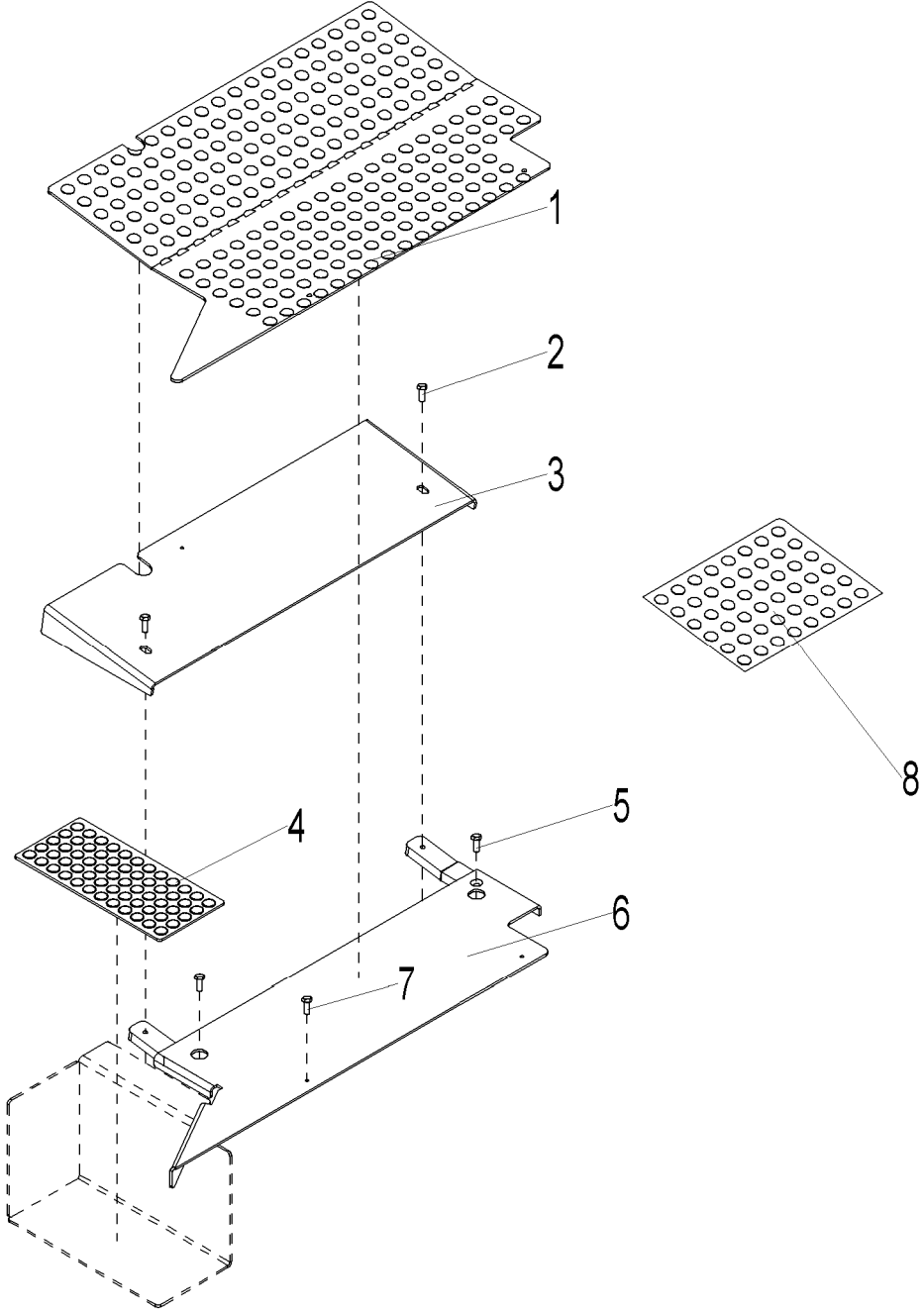


Fig. 7 Pedal Assembly

No.	Art No.	Description	Qty.	Note
1	231018020100	Rubber pad	1	
2	941100100001	Screw	2	M8X12-8.8
3	231018020102	Pedal (front)	1	
4	231018020101	Rubber pedal	1	
5	910200400026	Screw	2	GB70.3-M8X25-8.8
6	231018010100	Pedal welding	1	
7	910200500050	Screw	2	GB818-M6X10-4.8
8	231018020105	Rubber pedal (2)	1	

Fig. 8 Battery pallet assembly

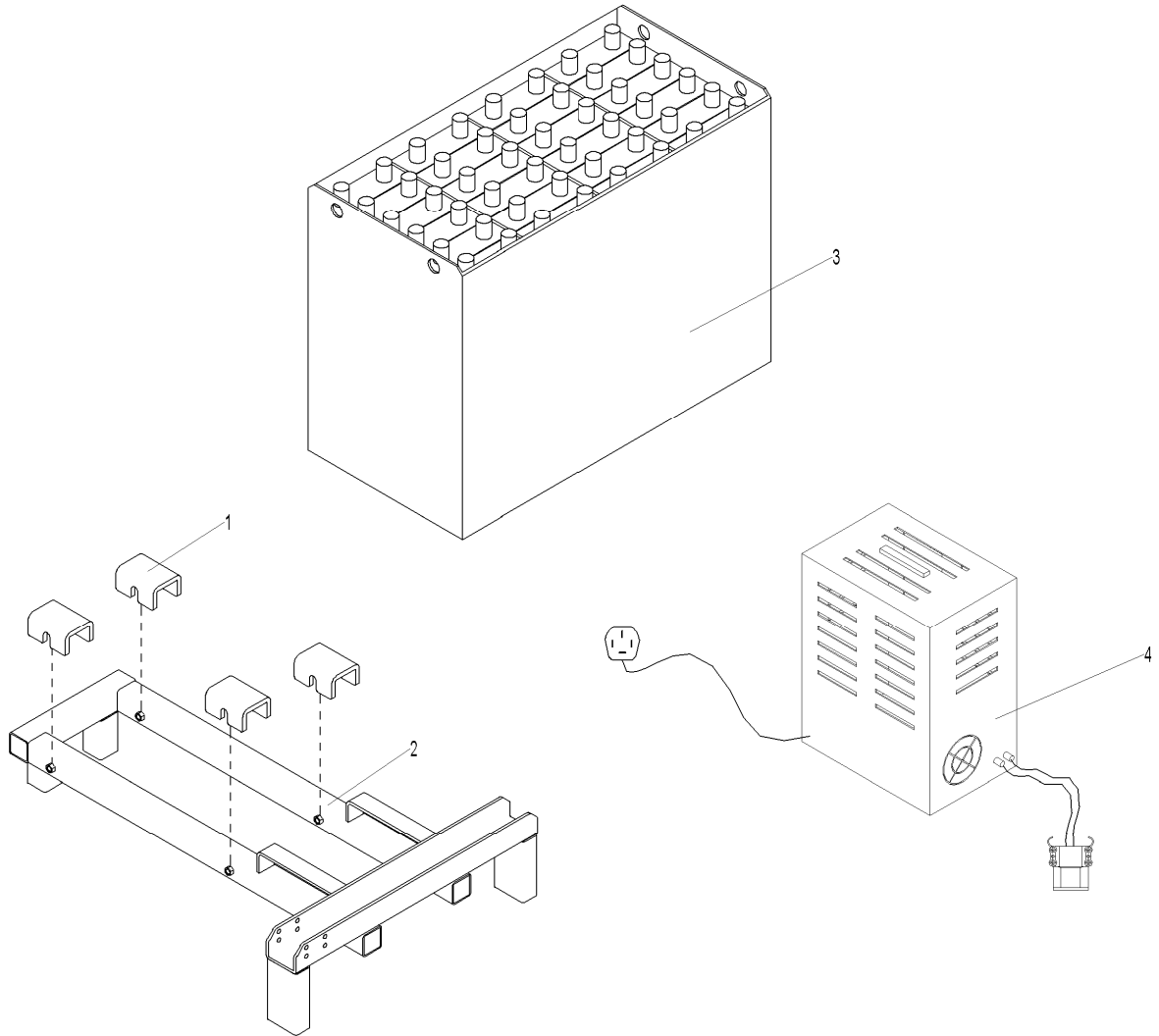


Fig. 8 Battery Pallet Assembly

No.	Art No.	Description	Qty.	Note
1	231012520105	Adjusting plate	4	
2	231012510100	Battery pallet welding	1	
3	231002037005	Traction battery function group	1	48V-3PzS300(welding)
	231002037006	Traction battery function group	1	48V-3PzS300(bolt)
	231002037007	Traction battery function group	1	3PzS330(welding)
	231002037008	Traction battery function group	1	48V-3PzS330(bolt)
	231002037009	Traction battery function group	1	48V-3PzS360(welding)
	231002037010	Traction battery function group	1	48V-3PzS360(bolt)
4	231002036501	Charger function group	1	48V40A(Asia Chinese)
	231002036502	Charger function group	1	48V40A(Asia English)
	231002036503	Charger function group	1	48V40A(EU)
	231002036504	Charger function group	1	48V40A(ENG)
	231002036505	Charger function group	1	48V40A(AUS)
	231002036506	Charger function group	1	48V40A(US)

Fig. 9 Battery cover assembly

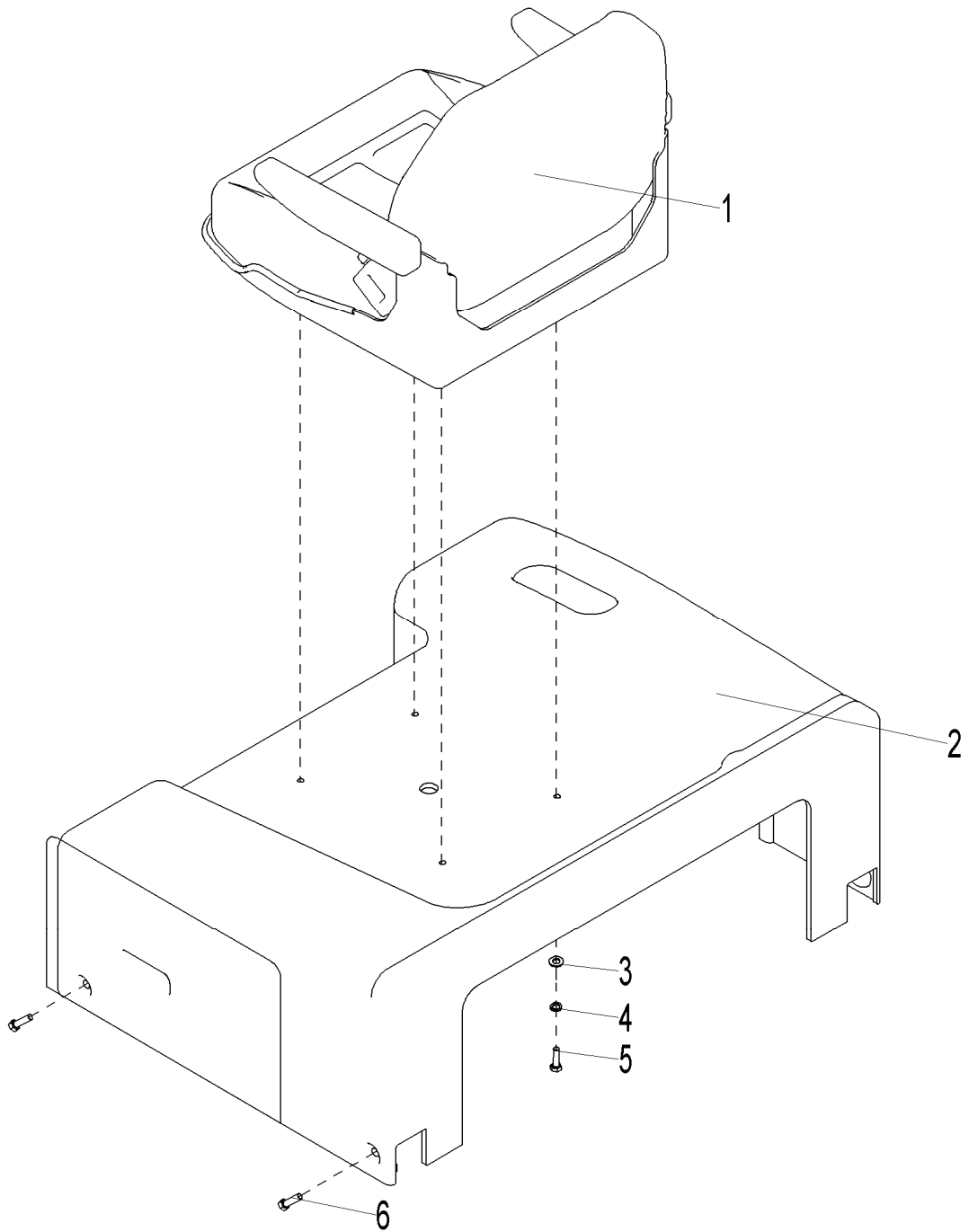


Fig. 9 Battery Cover Assembly

No.	Art No.	Description	Qty.	Note
1	255037510002	Seat (Ben Feng BF1-ABC)	1	
2	231021020100	Battery cover	1	
3	910400100006	Flat washer GB97.1-8-200HV	4	
4	910400500006	Spring washer GB93-8	4	
5	910200200058	Screw GB70.1-M8x25-8.8	4	
6	941100100005	Screw	4	M10X15-8.8

Fig. 10 Chassis assembly

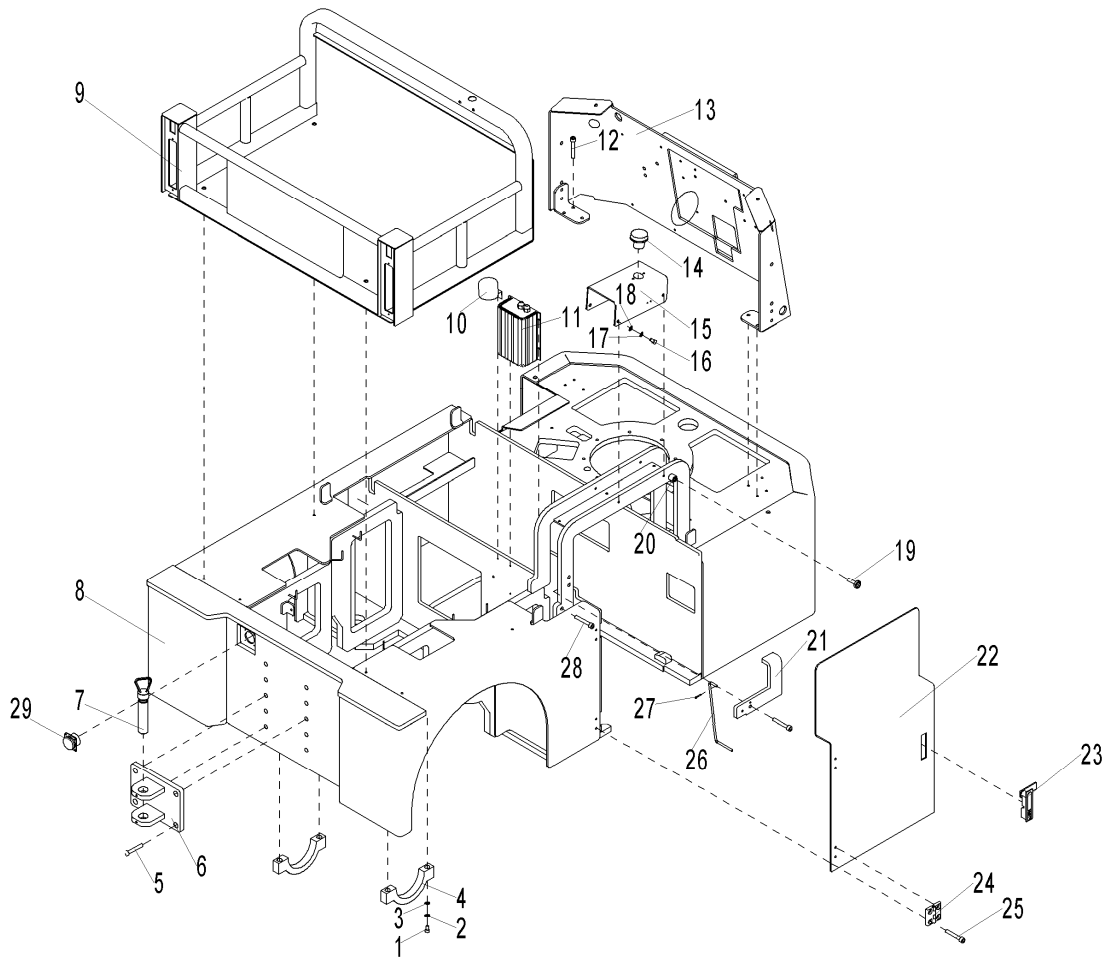


Fig. 10 Chassis Assembly

No.	Art No.	Description	Qty.	Note
1	910100200015	Bolt GB5785-M16X1.5X65-8.8	4	
2	910400500010	Spring washer GB93-6	4	
3	910400100010	Flat washer GB97.12-16-200HV	4	
4	251021520001	Cover	2	
5	910200200121	Screw GB70.1-M16X40-8.8	4	
6	231021510103	Fixing base welding (traction)	1	
7	940801000001	Pin BK38.0029.0805	1	
8	231021510100	Chassis welding	1	
9	231021510101	Trunk welding	1	
10	920500100002	Horn buzzer DJB-24B	1	
11	921900100007	Converter DC48V to 24V	1	
12	910200200061	Screw GB70.1-M8X40-8.8	6	
13	231021510105	Panel welding	1	
14	920200100001	Emergency button ZDK32-350	1	
15	231021520151	Fixing plate	1	
16	910200200058	Screw GB70.1-M8X25-8.8	8	
17	910400500006	Spring washer GB93-8	8	
18	910400100006	Flat washer GB97.1-8-200HV	8	
19	940600100001	Magnetic steel 18X5	1	

Fig. 10 Chassis assembly

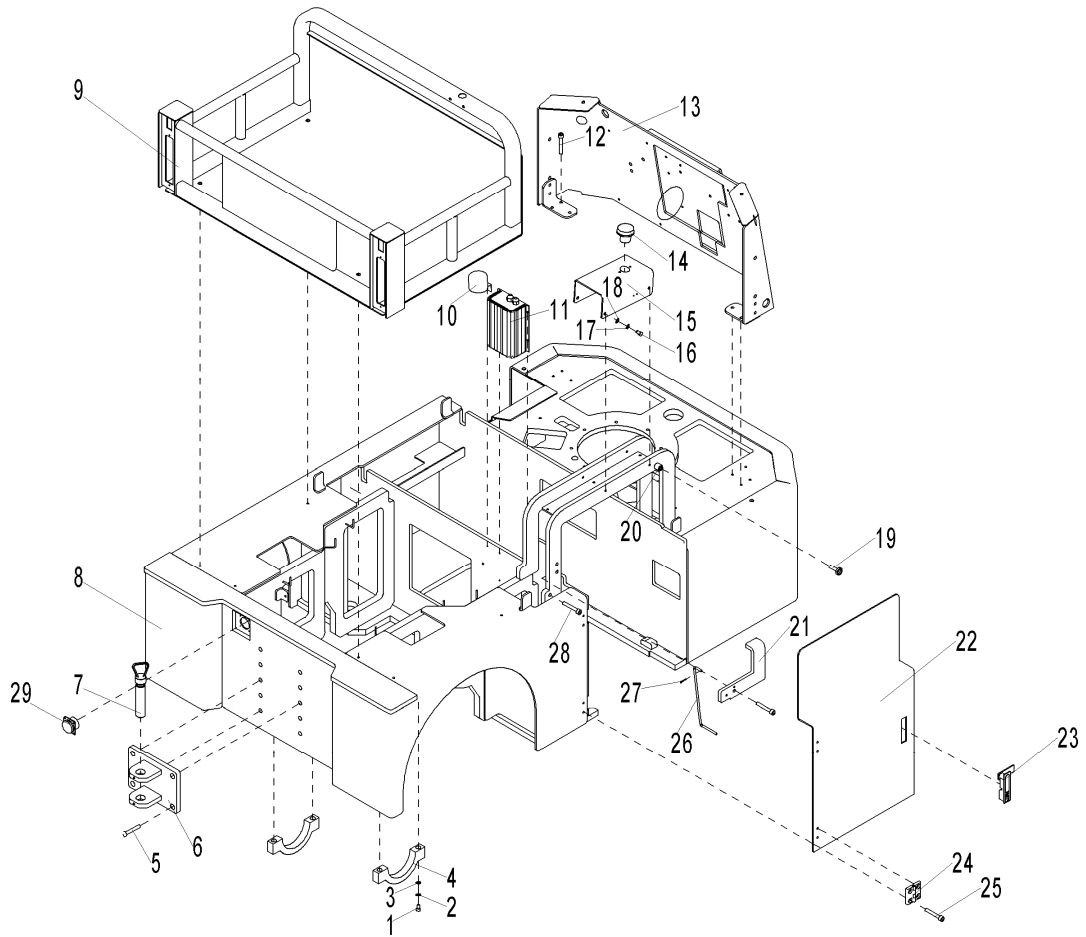


Fig. 10 Chassis Assembly

20	940600200002	Magnetic steel 18x45	1	
21	231021520145	Limit block (battery)	1	
22	231021510102	Side door welding	1	
23	940800300005	Locker AP305	1	
24	940801300002	Hinge CL218-1	1	60x60
25	910200400016	Screw GB70.1-M16X40-8.8	4	
26	231021520150	Support lever	1	
27	910600600019	Split pin	2	GB91-2.5X25
28	910200200081	Screw GB70.1-M10X50-8.8	2	
29	920400300008	Plug	1	WY40J9Z
	920400300009	SOCKET	1	WY40K9TI

Fig. 11 Drive motor assembly

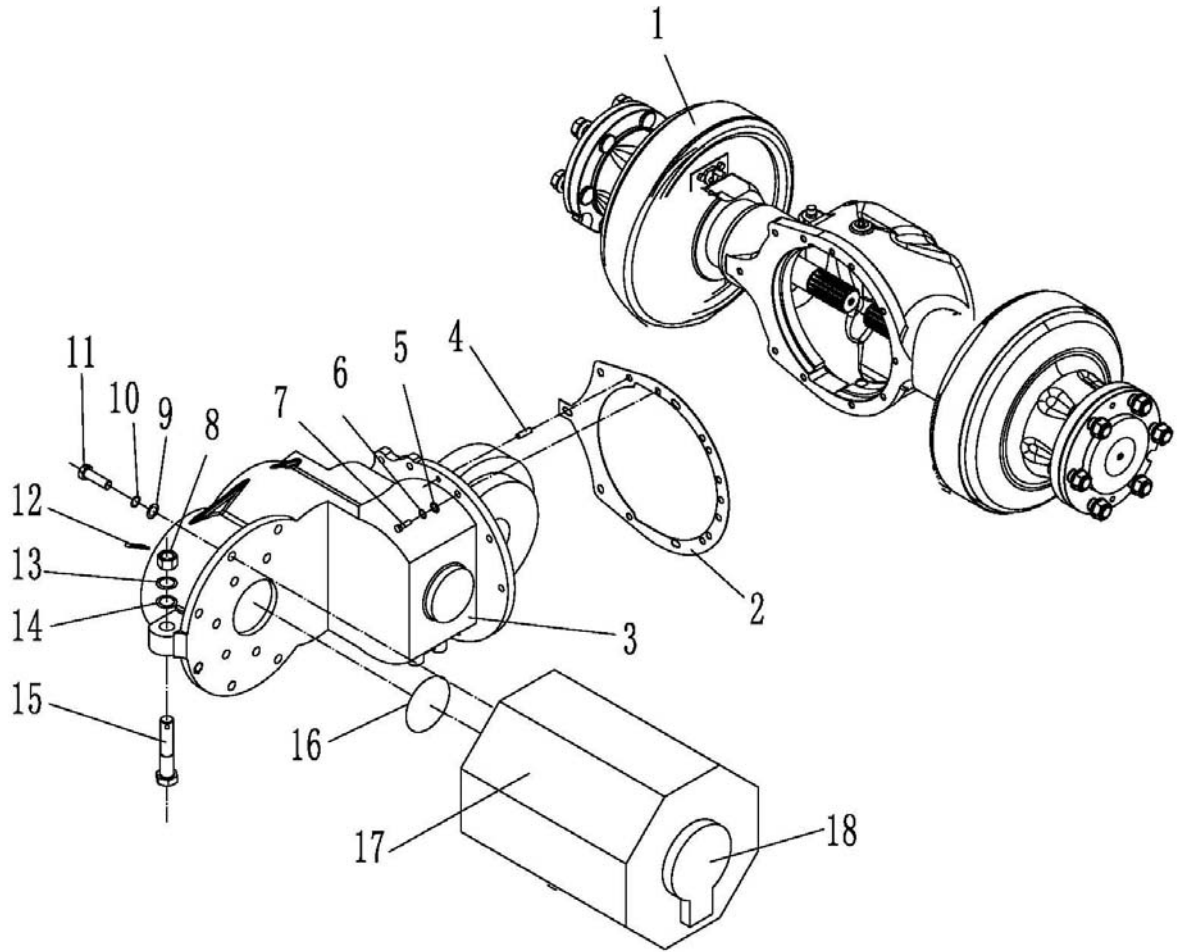


Fig. 11 Drive Motor Assembly

No.	Art No.	Description	Qty.	Note
1	231032010100	Drive axle assembly	1	
2	231032020100	Sealing pad	1	310x276x1
3	231032010101	Gear box	1	HDCSB25II
4	910600100021	Dowel pin	1	GB119.2-8x25
5	910400100007	Flat washer	10	GB97.1-10-200HV
6	910400500007	Spring washer	10	GB93-10
7	910100300038	Bolt	10	GB5783-M10x35-8.8
8	910300900002	Nut	1	GB6178-M20-8
9	910400100009	Flat washer	5	GB97.1-14-200HV
10	910400500009	Spring washer	5	GB93-14
11	910100400037	Bolt	5	GB5786-M14x1.5x17 0-8.8
12	910600600037	Split pin	1	GB91-4x40
13	910400500012	Spring washer	1	GB93-20
14	910400100012	Flat washer	1	GB97.1-20-200HV
15	910100500006	Bolt	1	GB31.1-M20x90-8.8
16	910800100020	O ring	1	90x2.65
17	920900100060	Motor (AC) YDQ6.8-4HC	1	
18	921800200015	Encoder SNDH-T4L-G01	1	Spare part

Fig. 12 Driving axle components

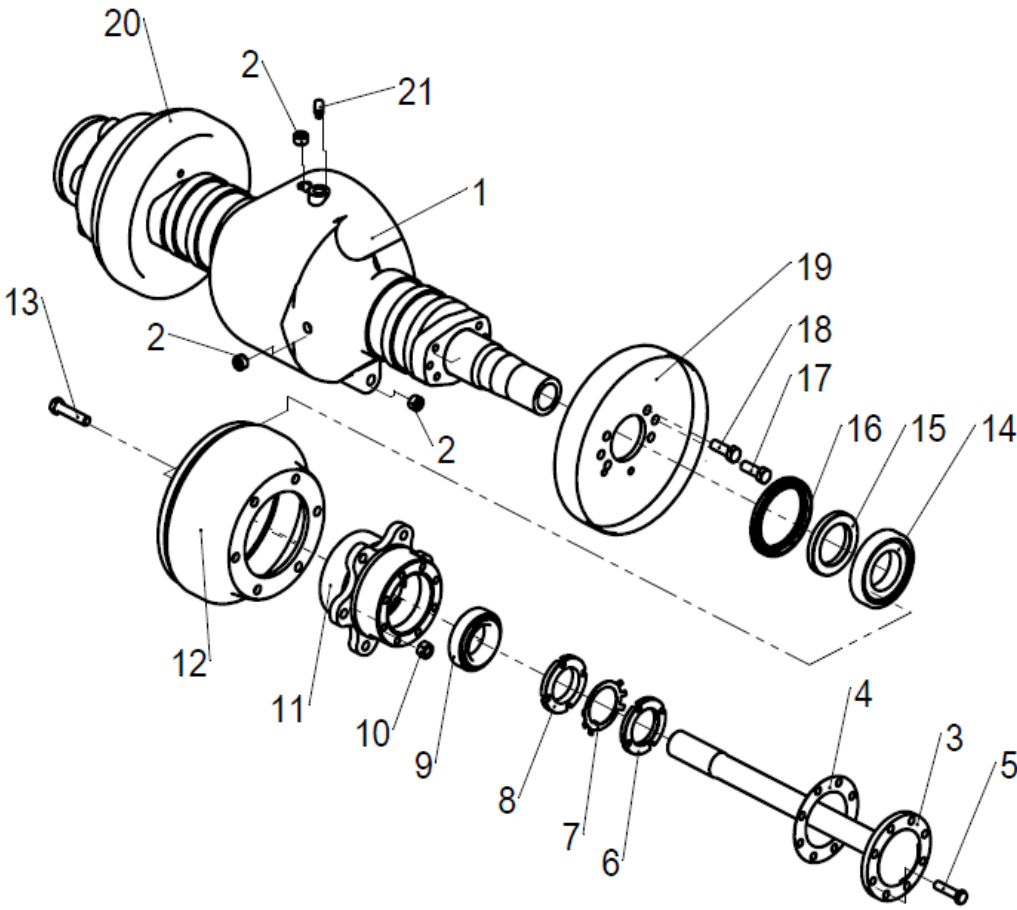


Fig. 12 Driving Axle Components

No.	Art No.	Description	Qty.	Note
A	231032010100	Driving axle components	1	
1	231098520001	Cover	1	
2	231098520002	Plug	1	
3	231098520003	Axel	2	
4	231098520004	Axle sealing pad	1	
5	231098520005	Bolt	16	
6	231098520006	Nut	4	
7	231098520007	Washer	4	
8	231098520008	Spacer	5	
9	231098520009	Bearing oil sealing assembly 33012A	2	
10	231098520010	Nut (M14X1.5)	12	
11	231098520011	Wheel hub	2	
12	231098520012	Brake cover	2	
13	231098520013	Bolt	12	
14	231098520014	Bearing 30213E	2	
15	231098520015	Bearing circlip	2	
16	231098520016	Oil sealing SG100x125x12	2	
17	231098520017	Bolt M14×1.5×40	4	
18	231098520018	Bolt M14×1.5×40	12	
19	231098510000	Left brake base plate	1	
20	231098510001	Right brake base plate	1	

Fig. 13 Brake

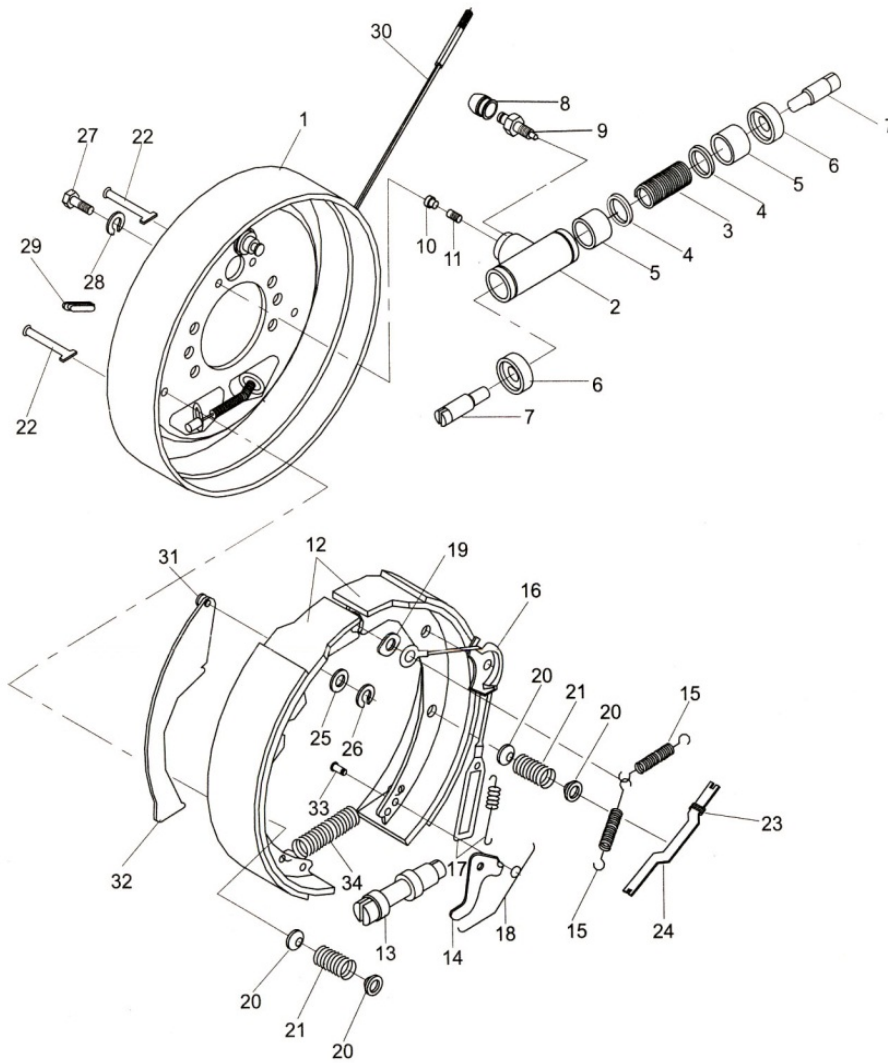


Fig. 13 Brake

No.	Art No.	Description	Qty.	Note
A	231098510000	Brake assembly (left)	1	Including 1-34
	231098510001	Brake assembly (right)	1	
1	231098520019	Left brake base plate	2	▲
	231098520020	Right brake base plate	1	▲
B	231098510002	Brake pump assembly	2	Including 2-9
2	231098520021	Tube	2	▲
3	231098520022	Spring	2	▲
4	231098520023	Pump ring	4	▲
5	231098520024	Piston	4	▲
6	231098520025	Protective cover	4	▲
7	231098520026	Support rod	4	▲
8	231098520027	Screw cover	2	▲
9	231098520028	Screw	2	▲
10	231098520029	Thread protective cover	2	▲
11	231098520030	Oil plug	2	▲
12	231098520031	Abrasive plate	2	▲
13	231098520032	Left gap adjuster	1	▲
	231098520033	Right gap adjuster	1	▲

14	231098520034	Ratchet	2	▲
15	231098520035	Spring	2	▲

Fig. 13 Brake

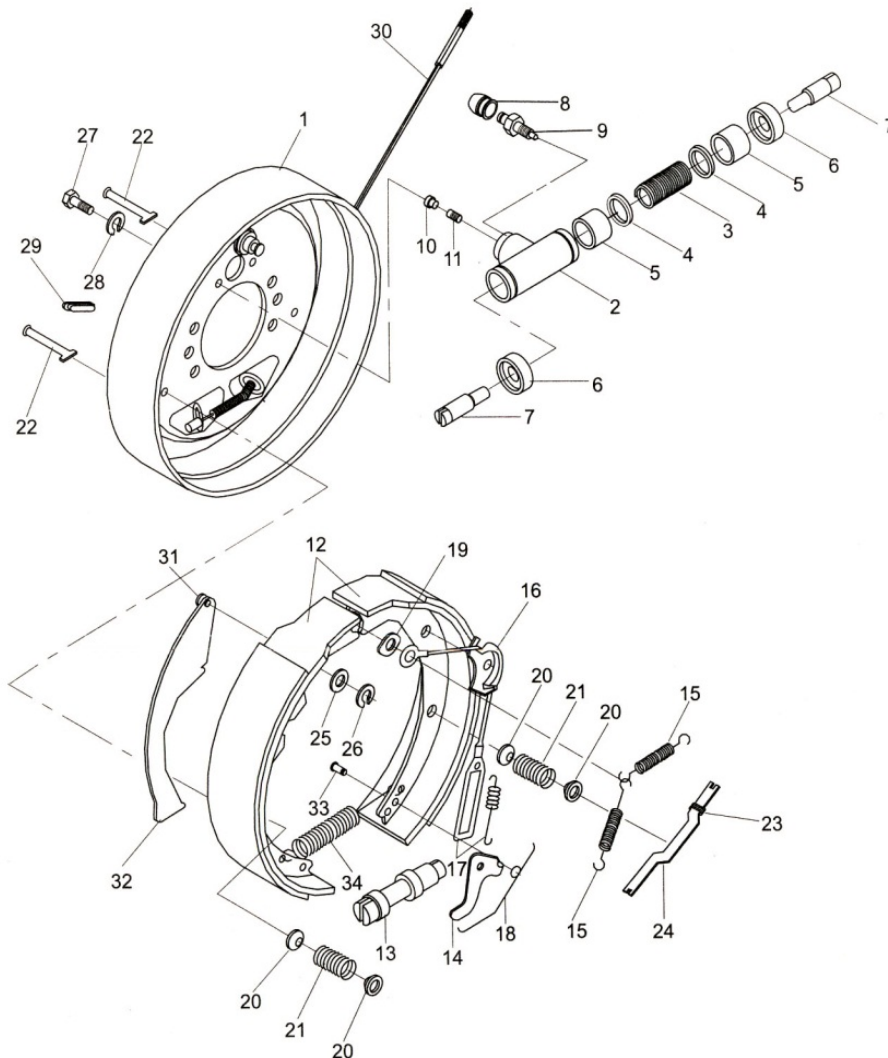


Fig. 13 Brake

16	231098520036	Guiding block	2	▲
17	231098520037	Spring cord	2	▲
18	231098520038	Spring	2	▲
19	231098520039	Guiding block	2	▲
20	231098520040	Spring base	8	▲
21	231098520041	Spring	4	▲
22	231098520042	Spring pull rod	4	▲
23	231098520043	Spring	2	▲
24	231098520044	Push rod	2	▲
25	231098520045	Washer	2	▲
26	231098520046	Circlip	2	▲
27	231098520047	Bolt	4	▲
28	231098520048	Washer	4	▲
29	231098520049	Plug	4	▲
30	231098520050	Steel robe (right)	1	▲
	231098520051	Steel robe (left)	1	▲
31	231098520052	Screw	2	▲
32	231098520053	Pull rod	2	▲

Fig. 14 Gearbox

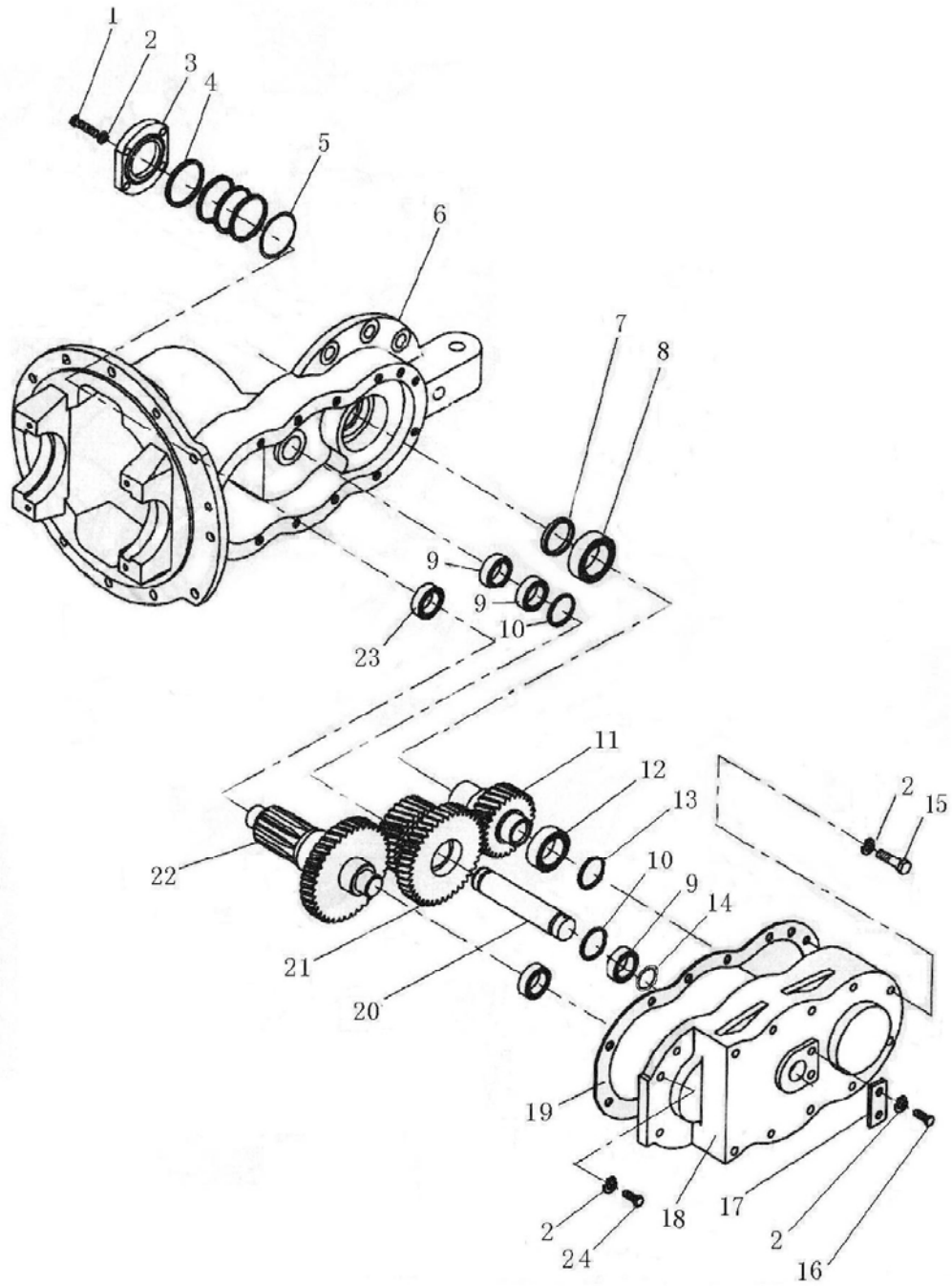


Fig. 14 Gearbox

No.	Art No.	Description	Qty.	Note
A	231032010101	Gearbox	1	(HDCS20A II)
1	231098520054	Bolt	4	
2	231098520055	Spring washer	20	
3	231098520056	Bearing cover	1	
4	231098520057	Washer	4	
5	231098520058	O seal ring	1	
6	231098520059	Gearbox casing	1	
7	231098520060	Oil seal	1	
8	231098520061	Bearing	1	
9	231098520062	Bearing	3	
10	231098520063	O seal ring	2	
11	231098520064	Axle components	1	
12	231098520065	Bearing	1	
13	231098520066	Adjusting pad	0	
14	231098520067	Adjusting pad	0	
15	231098520068	Bolt	12	
16	231098520069	Bolt	2	
17	231098520070	Baffle	1	
18	231098520071	Cover	1	
19	231098520072	Paper pad	1	
20	231098520073	Axle	1	

21	231098520074	Gear	1	
----	--------------	------	---	--

Fig. 14 Gearbox

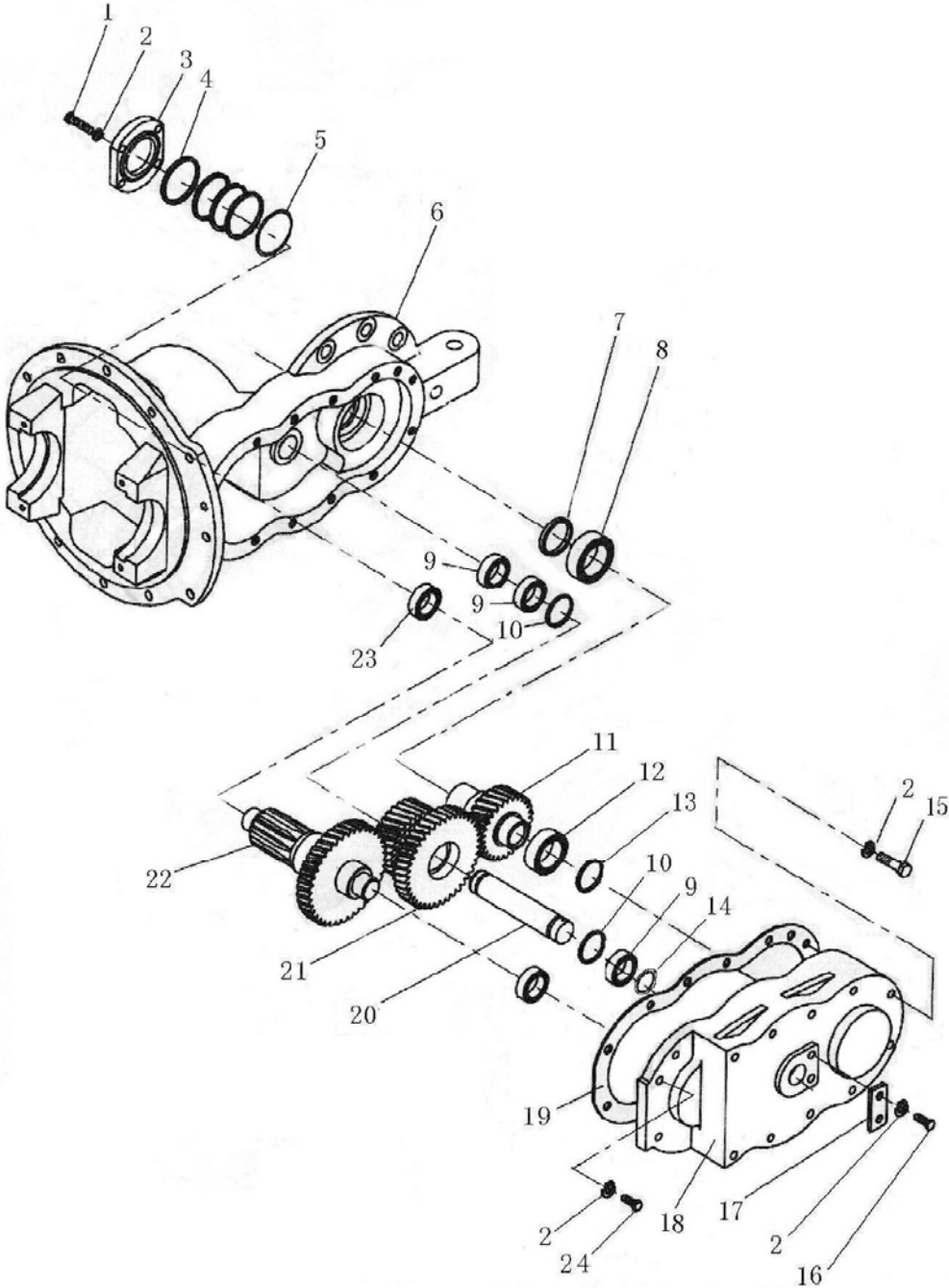


Fig. 14 Gearbox

22	231098520075	Gear axle components	1	
23	231098520076	Bearing	2	
24	231098520077	Bolt	2	

Fig. 15 Tyre

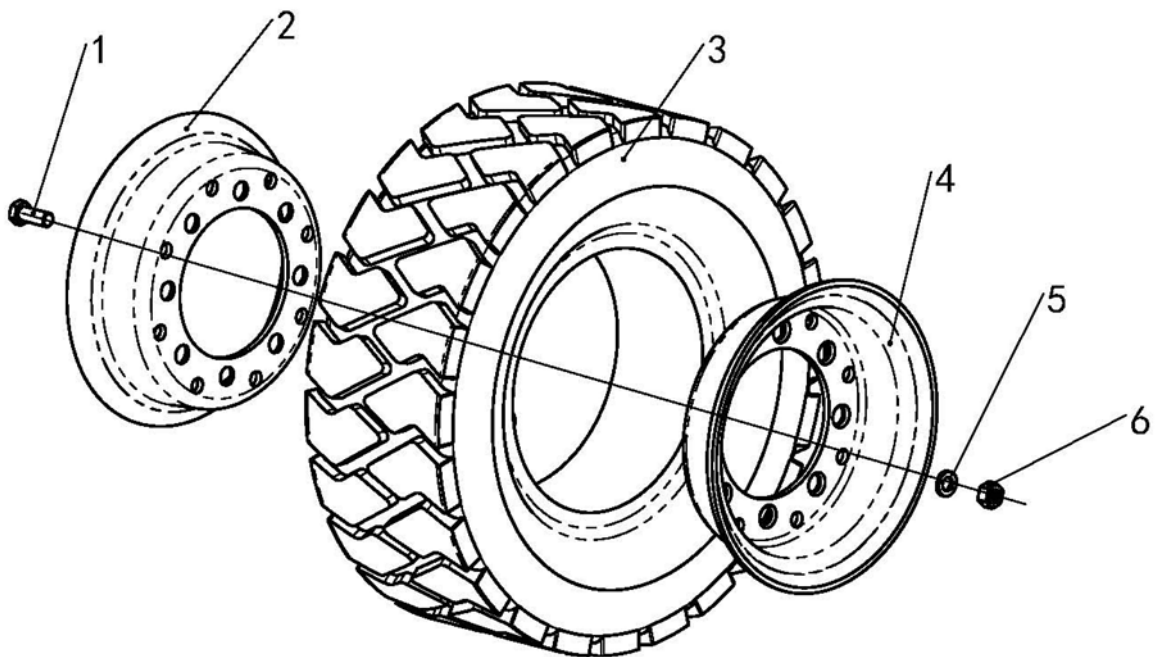


Fig. 15 Tyre

No.	Art No.	Description	Qty.	Note
A	254113010004	Driving wheel assembly 6.50-10-10PR(pneumatic)	2	
1	255013020001	Bolt M12x26	12	
2	254113020001	Wheel rim 5.00F-10	2	
3	254113010007	Pneumatic tyre 6.50-10-10PR	2	
4	254113020002	Wheel rim 5.00F-10	2	
5	910400500008	Washer 12	12	

Fig. 16 Electrical control components

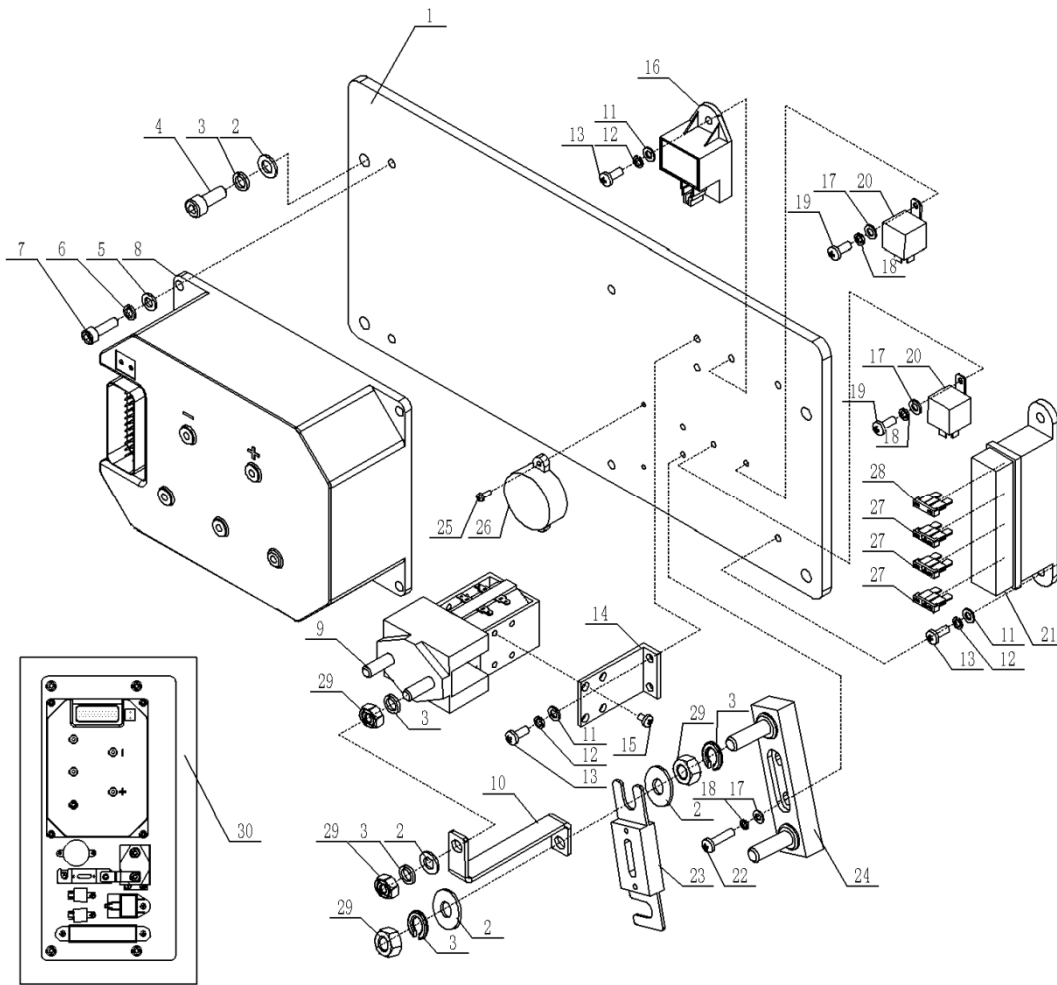


Fig. 16 Electric control components

No.	Art No.	Description	Qty.	Note
1	231033020001	Aluminium plate	1	
2	910400100006	Flat washer GB97.1-8-200HV	10	
3	910400500006	Spring washer GB93-8	12	
4	941100400001	Screw M8x20-8.8	4	
5	910400100005	Flat washer GB97.1-6-200HV	4	
6	910400500005	Spring washer GB93-6	4	
7	910200200036	Screw GB70.1-M6x20-8.8	4	

8	921400100042	Controller 1234SE-5421	1	
9	920700100008	Contactor DC48V-SW180B-108	1	
10	506233020001	Copper bar	1	
11	910400100004	Flat washer GB97.1-5-200HV	5	
12	910400500004	Spring washer GB93-5	5	
13	910200500038	Screw GB818-M5x12-4.8	5	
14	921300400004	Main contactor fixing part	1	
15	910200500020	Screw GB818-M4x6-4.8	4	
16	922000100005	Light SG252-24V	1	
17	910400100003	Flat washer GB97.1-4-200HV	4	
18	910400500003	Spring washer GB93-4	4	
19	910200500034	Screw GB818-M4x8-4.8	2	
20	920800100001	Relay DC24V-ACR01F-F-1C	2	
21	920100400008	Fuse box BX2081X	1	
22	910200500024	Screw GB818-M4x16-4.8	2	
23	920100100016	Fuse 400A (plastic)	1	
24	920100400002	Fuse seat SYY	1	
25	910200500010	Screw GB818-M3x8-4.8	2	
26	920500100003	Horn buzzer HYD-4216W	1	
27	920100200002	Fuse 10A	3	
28	920100200003	Fuse 15A	1	
29	910300100006	Nut GB6170-M8-10	8	

30	231033010016	Electrical control components (1234SE)	1	
----	--------------	--	---	--

Fig. 17 Cables

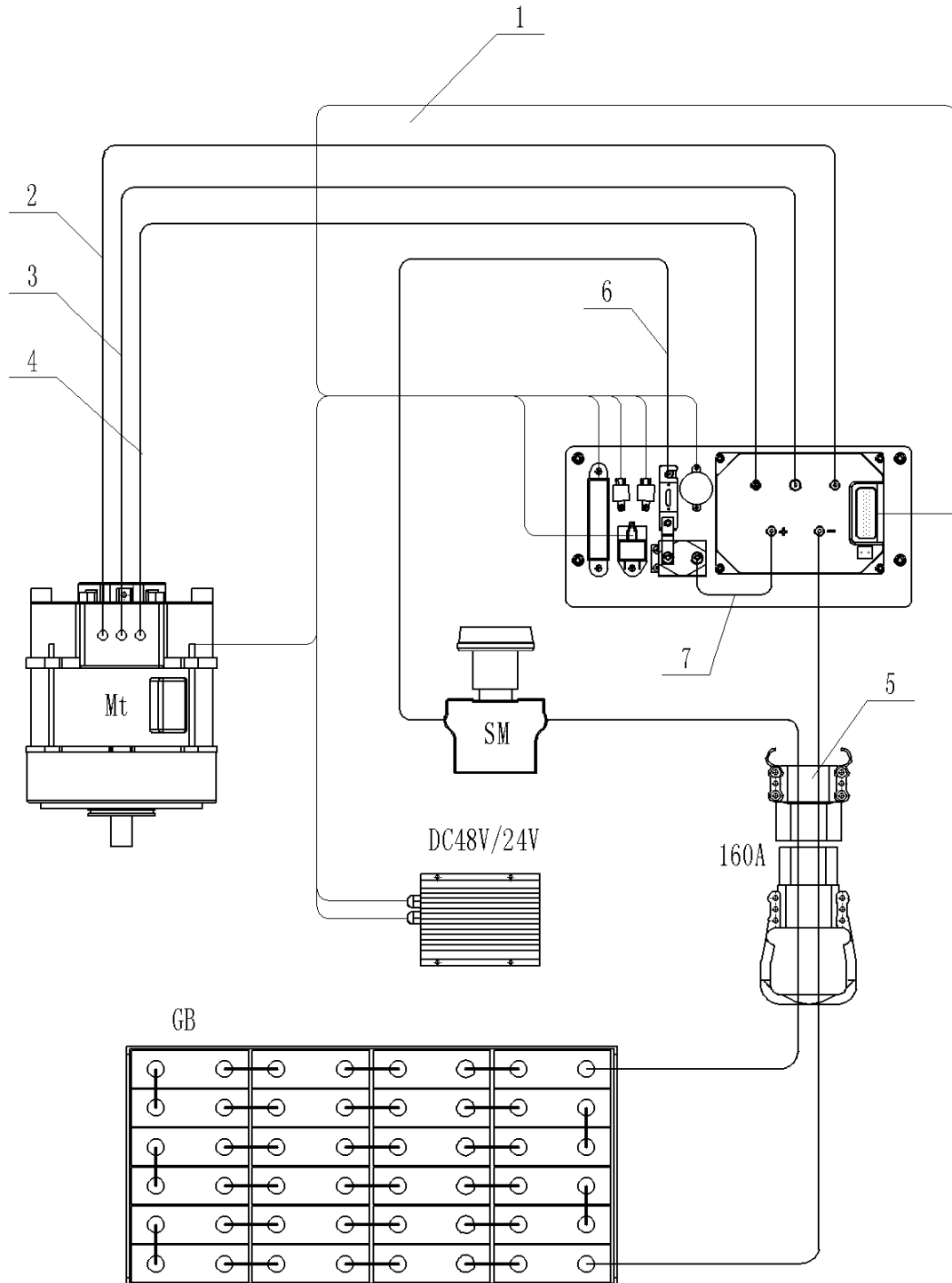


Fig. 17 Cables

No.	Art No.	Description	Qty.	Note
1	231033010009	Main control cable	1	1234SE-5421
2	231033010010	Cable	1	U-35-6-10-1250
3	231033010011	Cable	1	V-35-6-10-1250
4	231033010012	Cable	1	W-35-6-10-1250
5	231033010013	Main power supply cable	1	
6	231033010014	Cable		FU01-35-8-8-1800
7	231033010015	Cable		Bt+-35-6-8-150

Easy worn parts list

No.	Art No.	Description	Qty.	Note
1	402911020001	Chain pulley	1	Fig. 3/4
2	910700200020	Bearing	2	Fig. 3/5
3	940500400003	Bearing	2	Fig. 3/20
4	910700600004	Bearing	1	Fig. 3/28
5	910700600002	Bearing	1	Fig. 3/29
6	254198523514	Bearing 30213E	2	Fig. 12/14
7	910800900006	組合 Washer		Fig. 6/11
8	940500200016	Bushing (with shoulder)	2	Fig. 6/13
9	940500100048	Bushing	1	Fig. 6/14
10	25501152008	Torsional spring	1	Fig. 6/16
11	255098524008	Bearing	1	Fig. 14/8
12	255098524009	Bearing	3	Fig. 14/9
13	255098524012	Bearing	1	Fig. 14/12
14	920100100013	Fuse 4500A (plastic)	1	Fig. 16/1