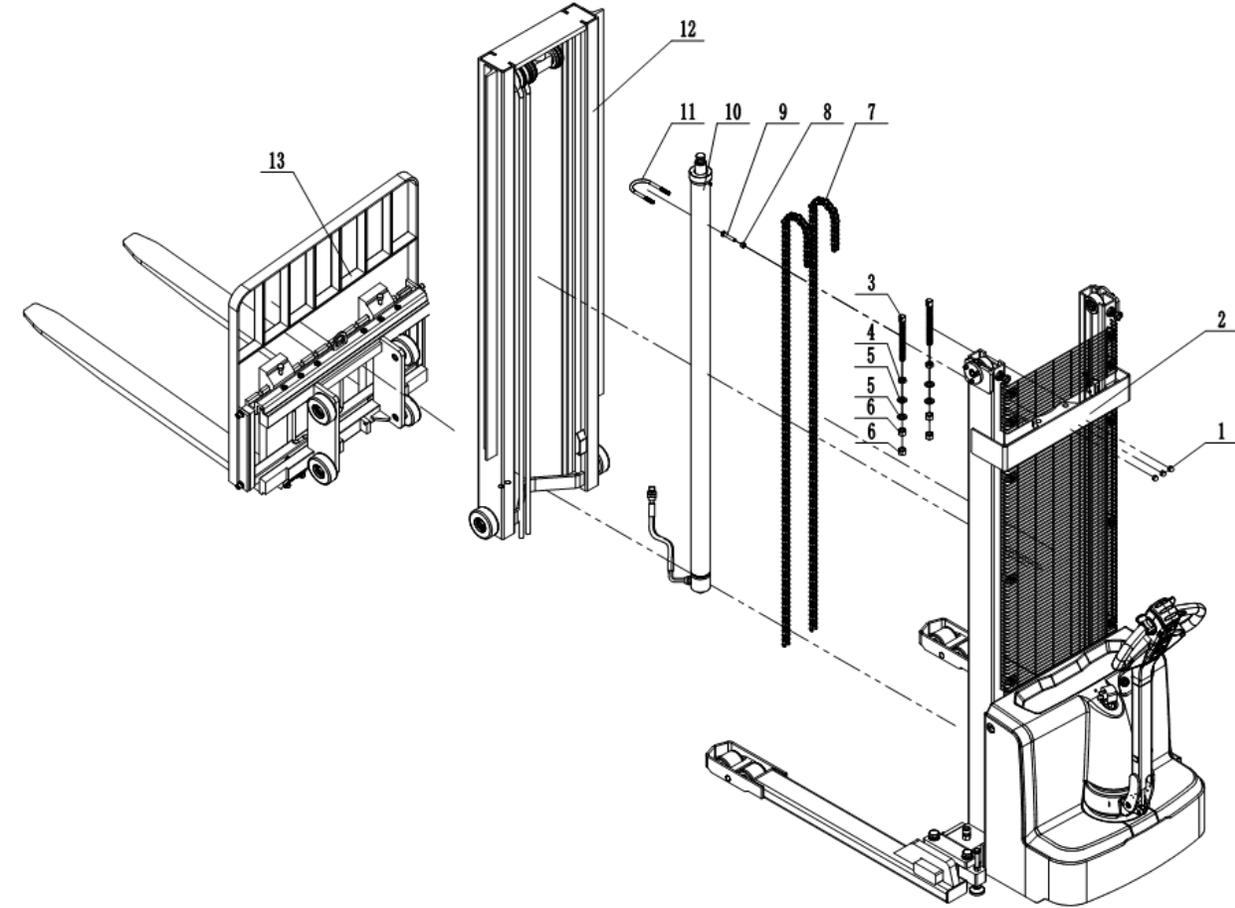




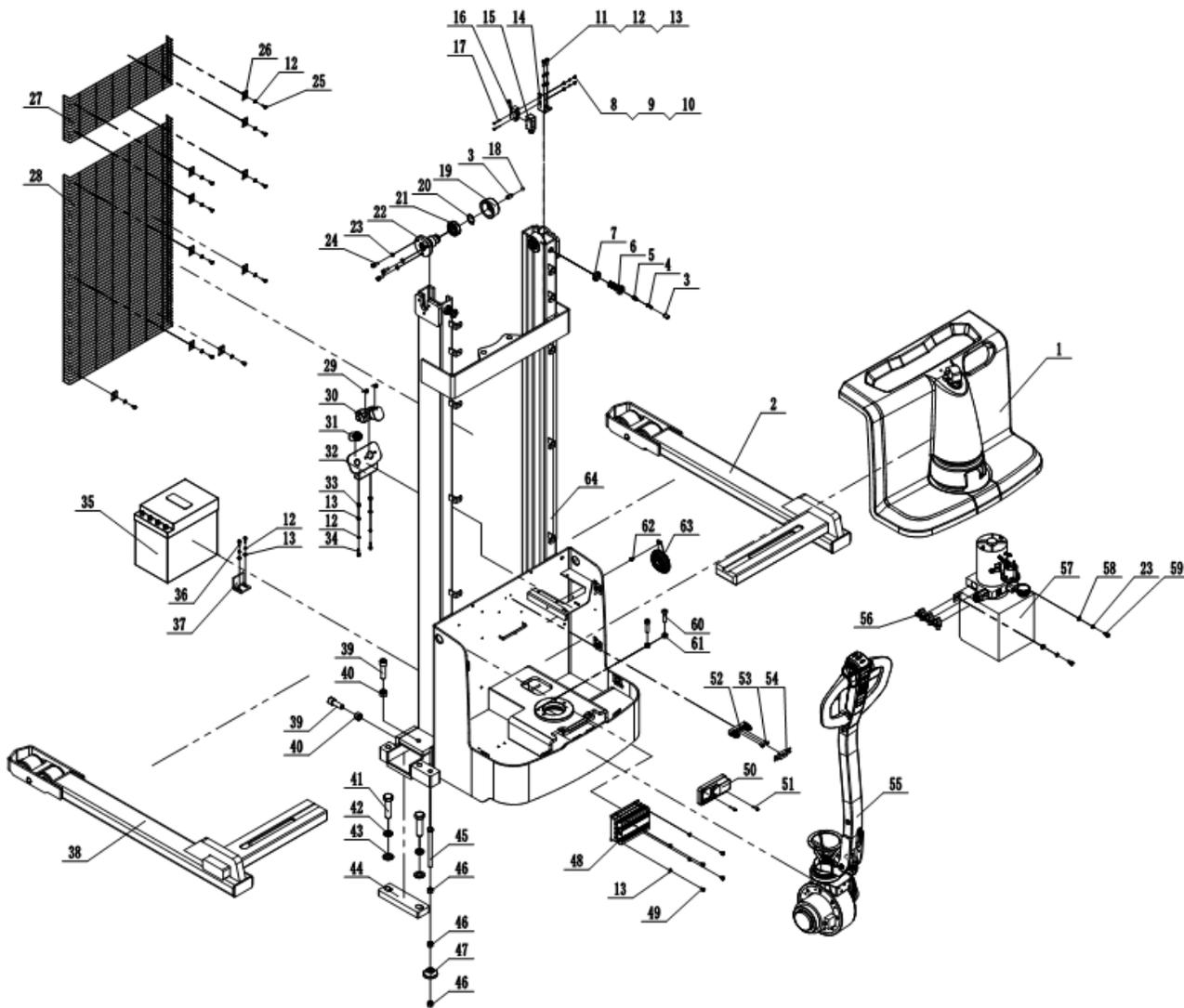
EB13E SERIES (WITH SIDESHIFT)
EB13ES-LI/EB13ES-145LI
ELECTRIC PALLET STACKER
PART MANUAL

QES15ZCY 电动堆垛车 ELECTRIC STACKER



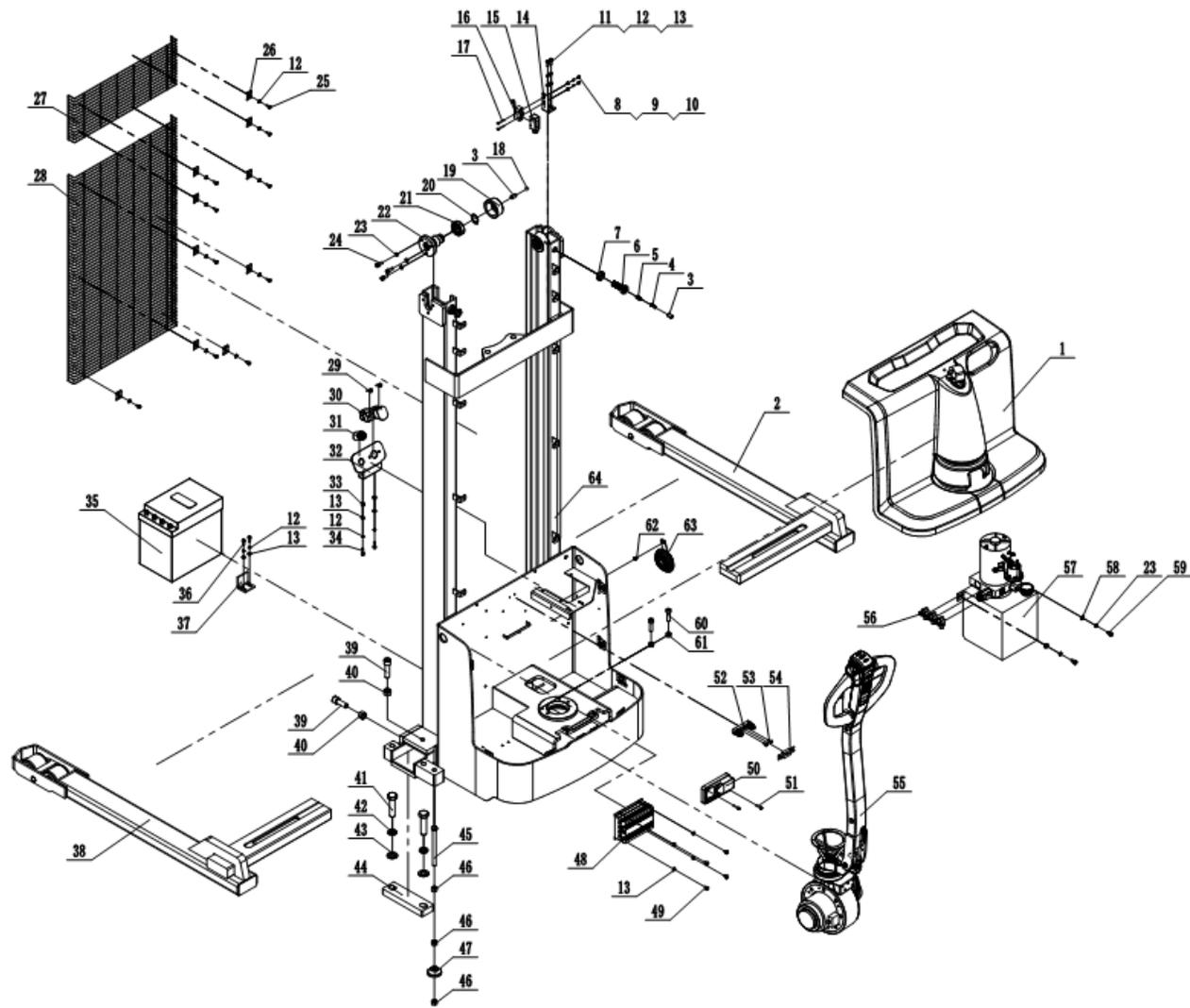
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	50371100001	盖形螺母M10	Cap nut	1		
2	20106110052	车架组件	Frame assembly	1		3000
	20106110072	车架组件	Frame assembly	1		3700
3	72390010005	链条拉杆 M16*180*1.5	Chain pull rod	2		
4	50362160001	六角薄螺母 M16	Hexagon thin nut	2		
5	50501160001	圆形垫圈16×3	Round washer	4		
6	50301160002	六角螺母M16	Hex nut	4		
7	72303010008	链条12A- 1*108	Chain	2		3000
	72303010014	链条12A- 1*128	Chain	2		3700
8	50301100001	六角螺母M10	Hex nut	1		
9	50101100008	六角头螺栓 M10×50	Hexagon bolt	1		
10	20106110064	油缸总成	Oil cylinder assembly	1		3000
	20106110071	油缸总成	Oil cylinder assembly	1		3700
11	70305010005	U型螺栓 M8X65X140	U-bolt	1		
12	20106110053	内门架组件	Inner mast assembly	1		3000
	20106110073	内门架组件	Inner mast assembly	1		3700
13	20106110054	滑架组件	Carriage assembly	1		

1.QES15ZCY 车体系统 || Stacker Body



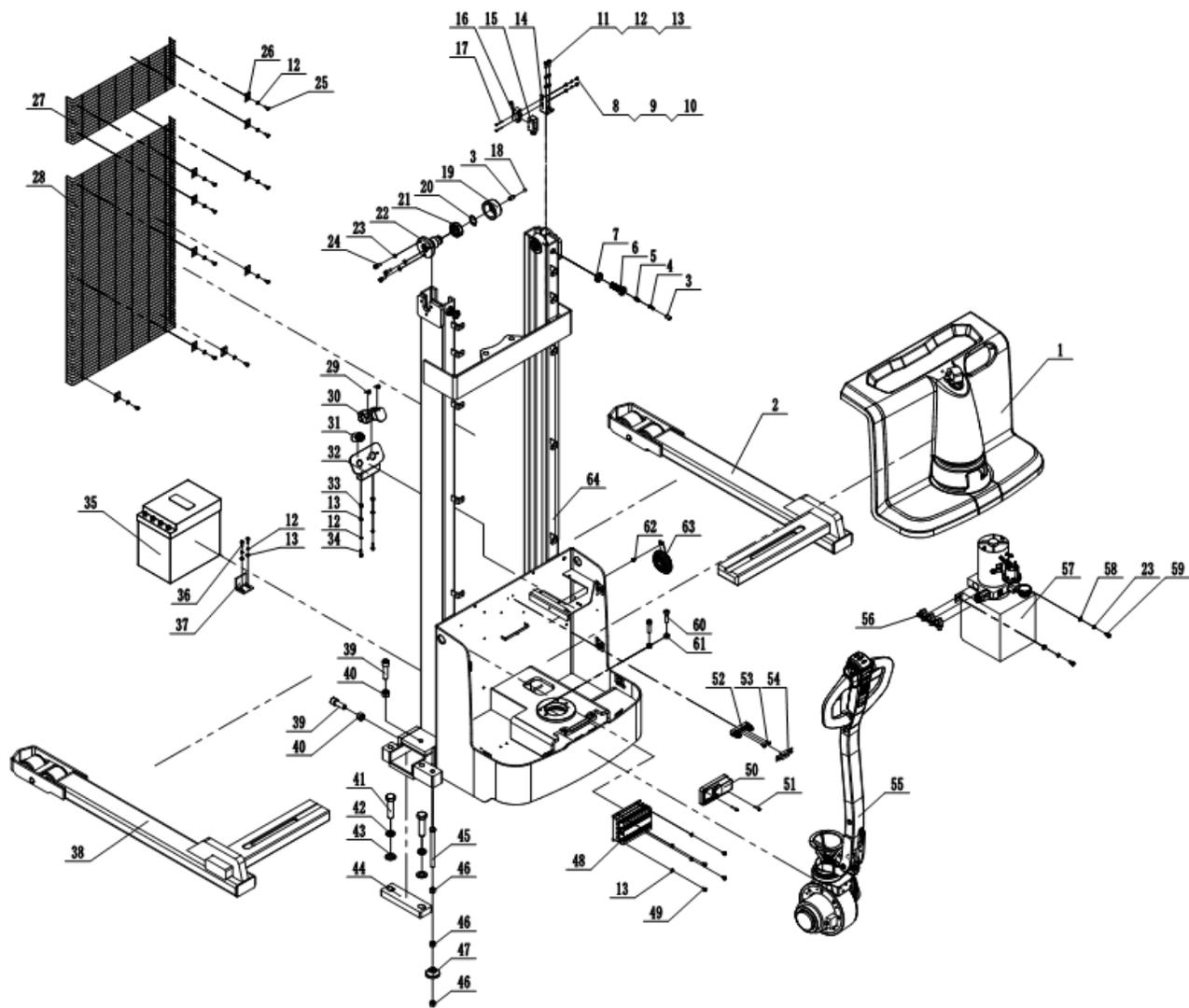
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	20106110055	覆盖件总成	Cover assembly	1		
2	20106110056	车脚组件右	Right footrest assembly	1		
3	50221120006	内六角平端紧定螺钉 M12×20	Hex socket set screw with flat point M12×20	4		
4	70901010002	压缩弹簧1.6*10*23	Compression spring	2		
5	70301030002	调节顶销φ12*25	Adjustable top pin	2		
6	70301030001	调节螺栓SM20*60	Adjustment bolt	2		
7	50331300002	调节螺母M20	Adjusting nut	2		
8	50311040001	六角锁紧螺母M4	Hex lock nut	2		
9	50511040001	弹性垫圈φ4	Resilient washer	2		
10	50501040001	圆形垫圈φ4	Round washer	2		
11	50211060003	十字槽盘头螺钉M6*20	Hexagon socket cap screw	2		
12	50511060001	弹性垫圈φ6	Resilient washer	2		
13	50501060001	圆形垫圈φ6	Round washer	2		
14	77706050089	限位开关板	Limit switch plate	1		
15	80101010012	微动开关RZ-15GW2S- B03	Micro switch	1		
16	85100000001	微动开关防护罩	Micro switch protective cover	1		
17	50211040005	十字槽盘头螺钉M4*30	Hexagon socket cap screw	2		
18	79001130001	钢球φ13.5	Steel ball	2		
19	71103010002	轴承座	Bearing housing	2		
20	50521301001	轴用弹性挡圈φ30	Shaft retaining ring	2		

1. QES15ZCY 车体系统 || Stacker Body



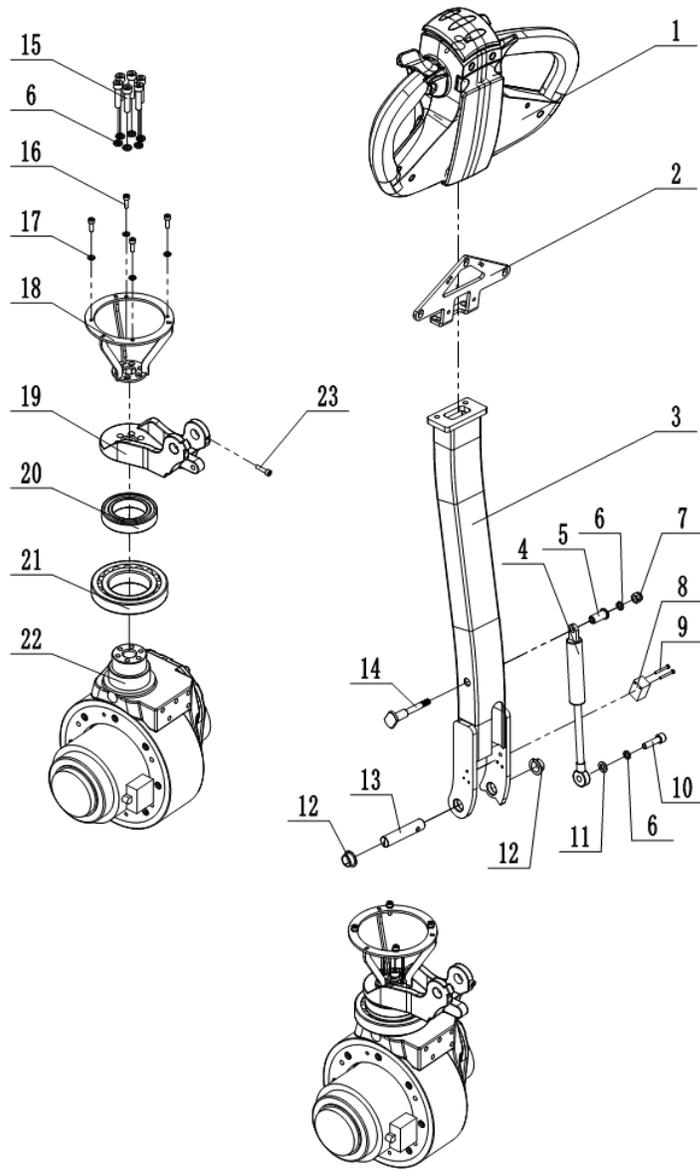
序号 Index u	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
21	50801250008	深沟球轴承6205-2RS	Deep groove ball bearing	2		
22	77706030009	导向轮杆焊合	Guide Wheel Lever Welding Assembly	2		
23	50511080001	弹性垫圈φ8	Resilient washer	3		
24	50201080003	内六角圆柱头螺钉 M8*20	Hexagon socket cap screw	3		
25	50101060011	六角头螺栓M6×12	Hexagon bolt	10		
26	79003010006	网罩压片	Mesh connector	10		
27	71301010011	网罩	Mesh protection	1		
28	71301010012	网罩	Mesh protection	1		3000
	71301010016	网罩	Mesh protection	1		3700
	50211060003	十字槽盘头螺钉M6×20	Hexagon socket cap screw	2		
29	50211060003	十字槽盘头螺钉M6×20	Hexagon socket cap screw	2		
30	80107010002	急停开关ED250A	Emergency stop switch	1		
31	80109010001	钥匙开关JK530AMP	Key switch	1		
32	77706050090	开关安装板	Switch Mounting Plate	1		
33	50311060001	六角锁紧螺母M6	Hex lock nut	2		
34	50201060007	内六角圆柱头螺钉 M6×20	Hexagon socket cap screw	2		
35	81103243010	24V60A锂电池	Lithium Battery	1		
36	50201060018	内六角圆柱头螺钉 M6×16	Hexagon socket cap screw	2		
37	77706050012	电瓶限位板	Battery lock bracket	1		
38	20106110057	车脚组件左	Left Footrest Assembly	1		
39	50201160001	内六角圆柱头螺钉 M16×45	Hexagon socket cap screw	4		
40	50301160001	六角螺母M16	Hex nut	4		
41	50101200002	六角头螺栓M20×80	Hexagon bolt	4		
42	50511200001	弹性垫圈φ20	Resilient washer	4		
43	50501200013	圆形垫圈φ20	Round washer	4		

1. QES15ZCY 车体系统 || Stacker Body



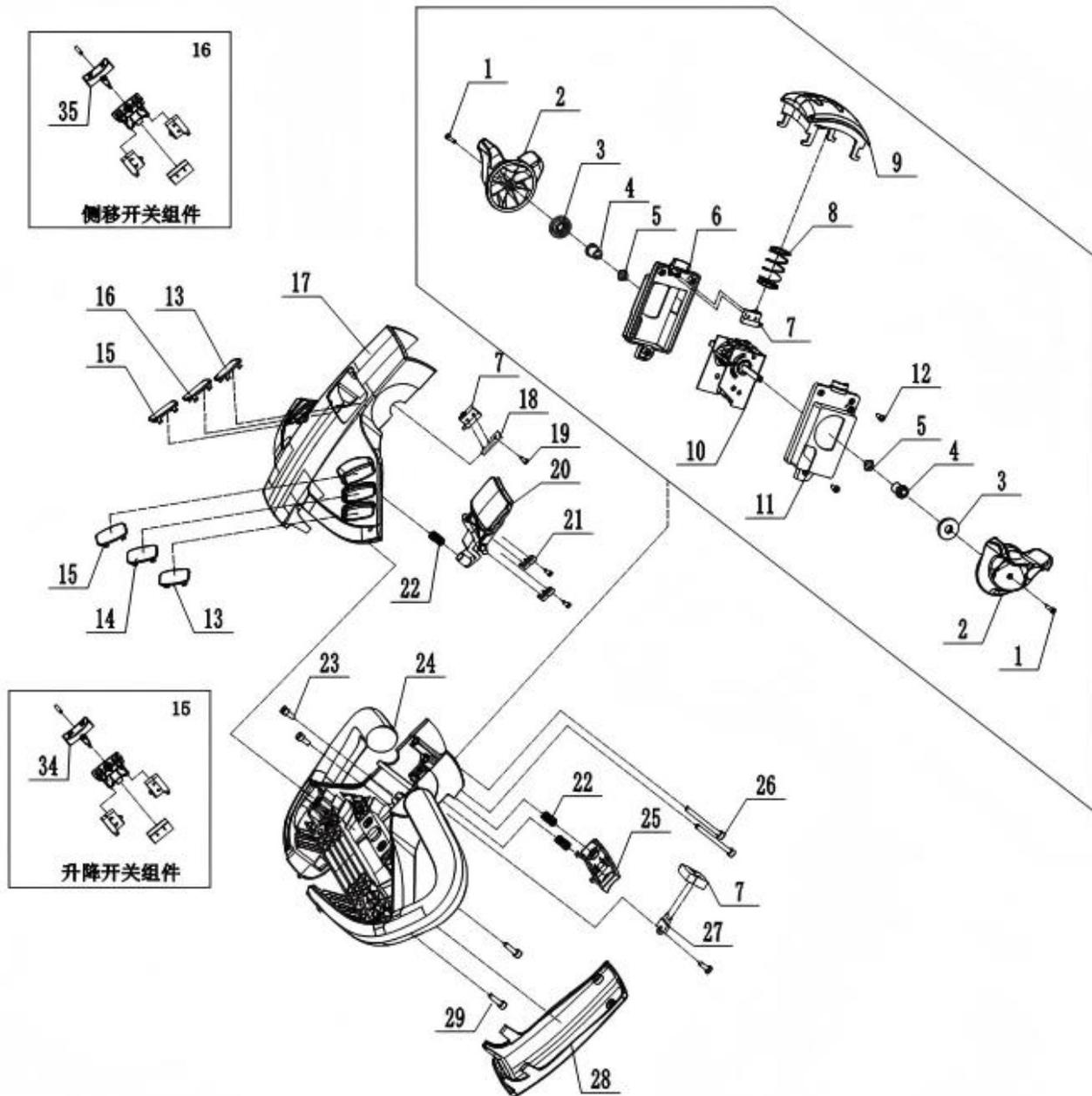
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44	77706030013	压板	Pressure Plate	2		
45	50101120017	六角头螺栓M12×160	Hexagon bolt	2		
46	50301120001	六角螺母M12	Hex nut	6		
47	77706030015	调节地脚	Adjustable Foot	2		
48	80912241035	24V30A-B充电器	Charger	1		
49	50211060001	十字槽盘头螺钉M6×10	Hexagon socket cap screw	4		
50	80601241007	控制器1212P	Controller	1		
51	50211050006	十字槽盘头螺钉 M5×25	Hexagon socket cap screw	2		
52	81603010001	保险丝座ANL-N	Fuse holder	1		
53	50203050003	内六角沉头螺钉M5×16	Hexagon socket countersunk head screw	2		
54	81601010001	保险丝100A	Fuse wire	1		
55	20106110058	操作系统总成	Operating System Assembly	1		
56	60602010002	直角接头	Right-angle joint	3		
57	61601243004	泵站总成	Pump Station Assembly	1		
58	50501080001	圆形垫圈φ8	Round washer	2		
59	50201080001	内六角圆柱头螺钉 M8×12	Hexagon socket cap screw	2		
60	50201100018	内六角圆柱头螺钉 M10×40	Hexagon socket cap screw	2		
61	50301100001	六角螺母M10	Hex nut	2		
62	50211060001	十字槽盘头螺钉M6×10	Hexagon socket cap screw	1		
63	80325010001	喇叭XJF-65/24V	Horn	1		
64	20106010031	车架焊合	Chassis weld assembly	1		3000
	20106010034	车架焊合	Chassis weld assembly	1		3700

1.1 操作系统总成 || Control Parts Assembly



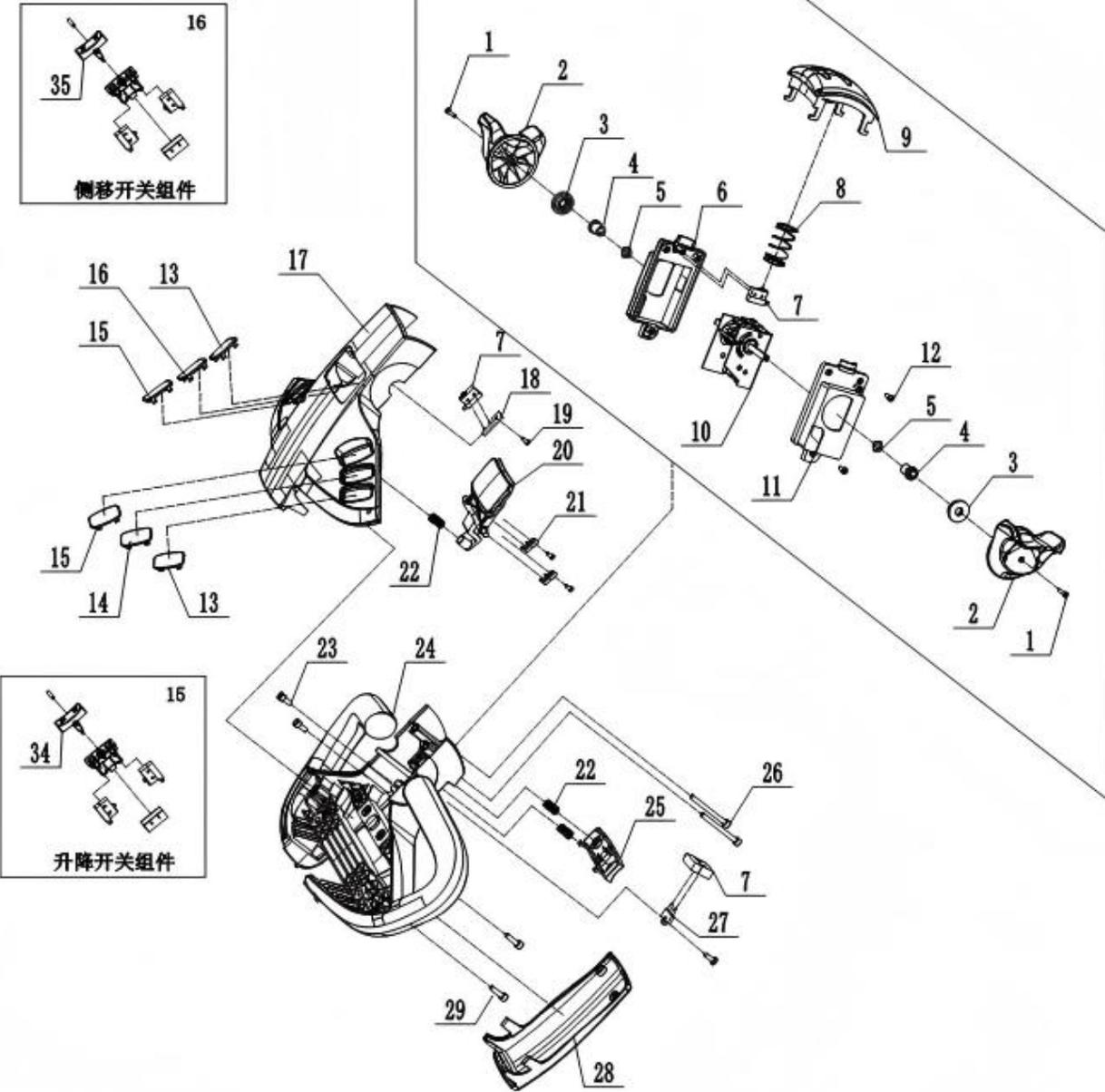
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1	82601248003	操作手柄T600.02-00	Operating handle	1		
2	77706050038	手柄安装座	Handle install holder	1		
3	75303010009	手柄杆焊合	Handle bar assembly	1		
4	70912160006	气弹簧YQ16-70-245/690N	Gas spring	1		
5	70301050002	轴套	Axle sleeve	1		
6	50511080001	弹性垫圈φ8	Resilient washer	6		
7	50311080001	六角锁紧螺母M8	Hex lock nut	1		
8	50211030003	十字槽盘头螺钉M3×25	Hexagon socket cap screw	2		
9	80119010009	接近开关AZ17M05PNK 10-30VDC	Approach switch	1		
10	50201080010	内六角圆柱头螺钉 M8×30	Hexagon socket cap screw	1		
11	50501080001	圆形垫圈φ8	Round washer	5		
12	72902160004	带肩复合衬套 16*18*10/24	Composite bush with shoulder	2		
13	70101160005	手柄销轴φ16*75	Handle Pivot Pin	1		
14	70301050001	气弹簧固定螺栓	Gas Spring Mounting Bolt	1		
15	50201080007	内六角圆柱头螺钉M8*35	Hexagon socket cap screw	5		
16	50201050023	内六角圆柱头螺钉M5*16	Hexagon socket cap screw	4		
17	50501050001	圆形垫圈φ5	Round washer	4		
18	77706050091	转向罩安装架	Steering Cover Mounting Bracket	1		
19	77706050092	关节座	Joint Hub	1		
20	50801500006	深沟球轴承6010-2RS	Deep groove ball bearing	1		
21	50802600002	圆锥滚子轴承30212	Tapered roller bearing	1		
22	83101243007	驱动总成	Drive Assembly	1		
23	50201050011	内六角圆柱头螺钉 M5×20	Hexagon socket cap screw	1		

1.1.1 手柄总成 || Handle Assembly



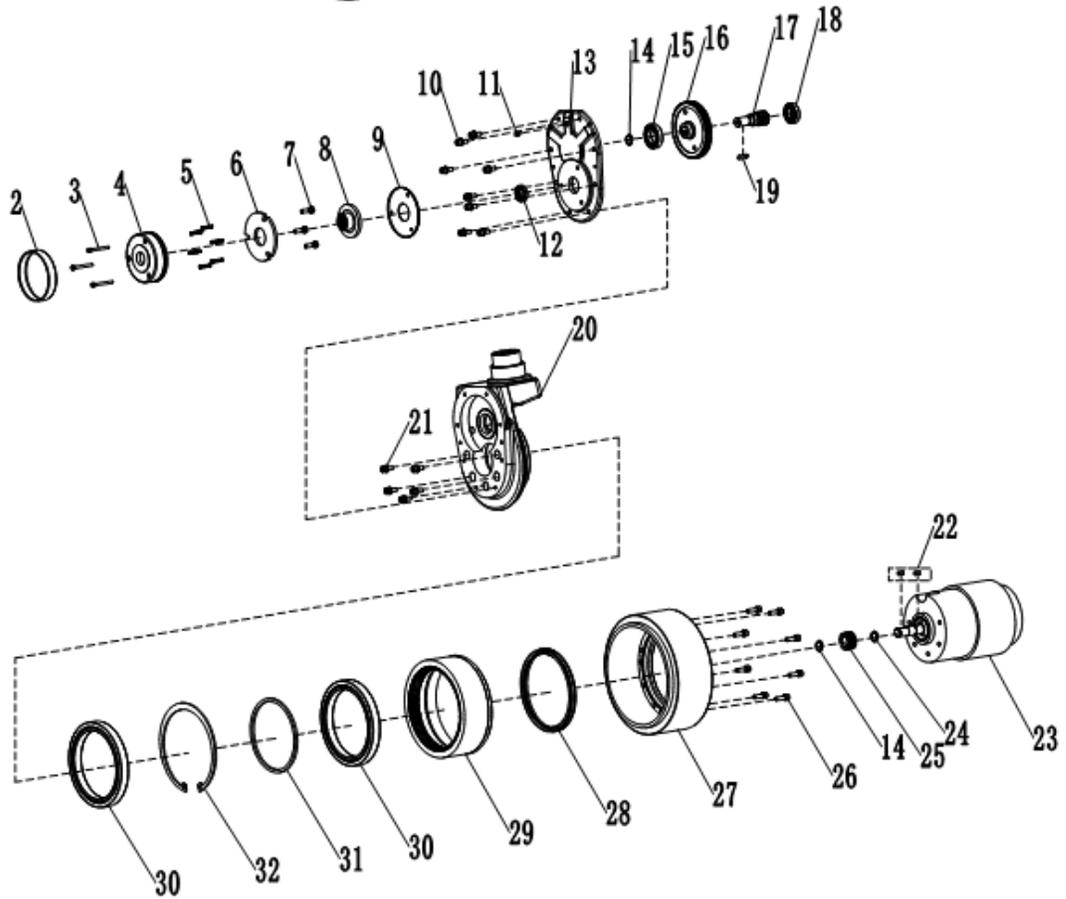
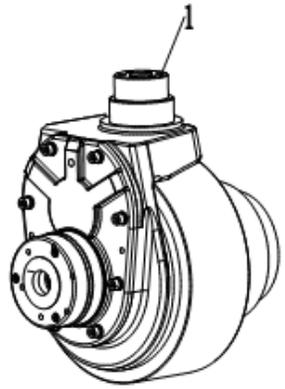
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1	A5021102109	十字槽盘头螺钉 M3x16	Hexagon socket cap screw	2		
2	A7060355016	加速器旋钮	Accelerator knob	2		
3	A6162607014	轴外套	Axle outer sleeve	2		
4	A6162603012	轴内套	Axle inner sleeve	2		
5	A6163101030	波形弹性垫圈WAV-6	Wave spring washer	2		
6	A7060621064	加速器支架 (右)	Accelerator bracket (right)	1		
7	A6165102009	微动开关	Micro switch	3		
8	A7010110009	肚皮按板弹簧	Belly button plate spring	1		
9	A6165109069	肚皮开关按钮	Belly switch button	1		
10	A7060901029	加速器ET0315B	accelerator	1		
11	A5020120008	加速器支架 (左)	Accelerator bracket (left)	1		
12	A7010110094	十字槽盘头螺钉- ST3.5x13	Hexagon socket cap screw	3		
13	A6019001053	按钮堵头	Button plug	6		
14	A7900301028	倾仰开关组件	Tilt switch assembly	1		
15	A8090124011	升降开关组件	Lift switch assembly	1		
16	A7310207914	侧移开关组件	Lateral shift switch assembly	4		

1.1.1 手柄总成 || Handle Assembly



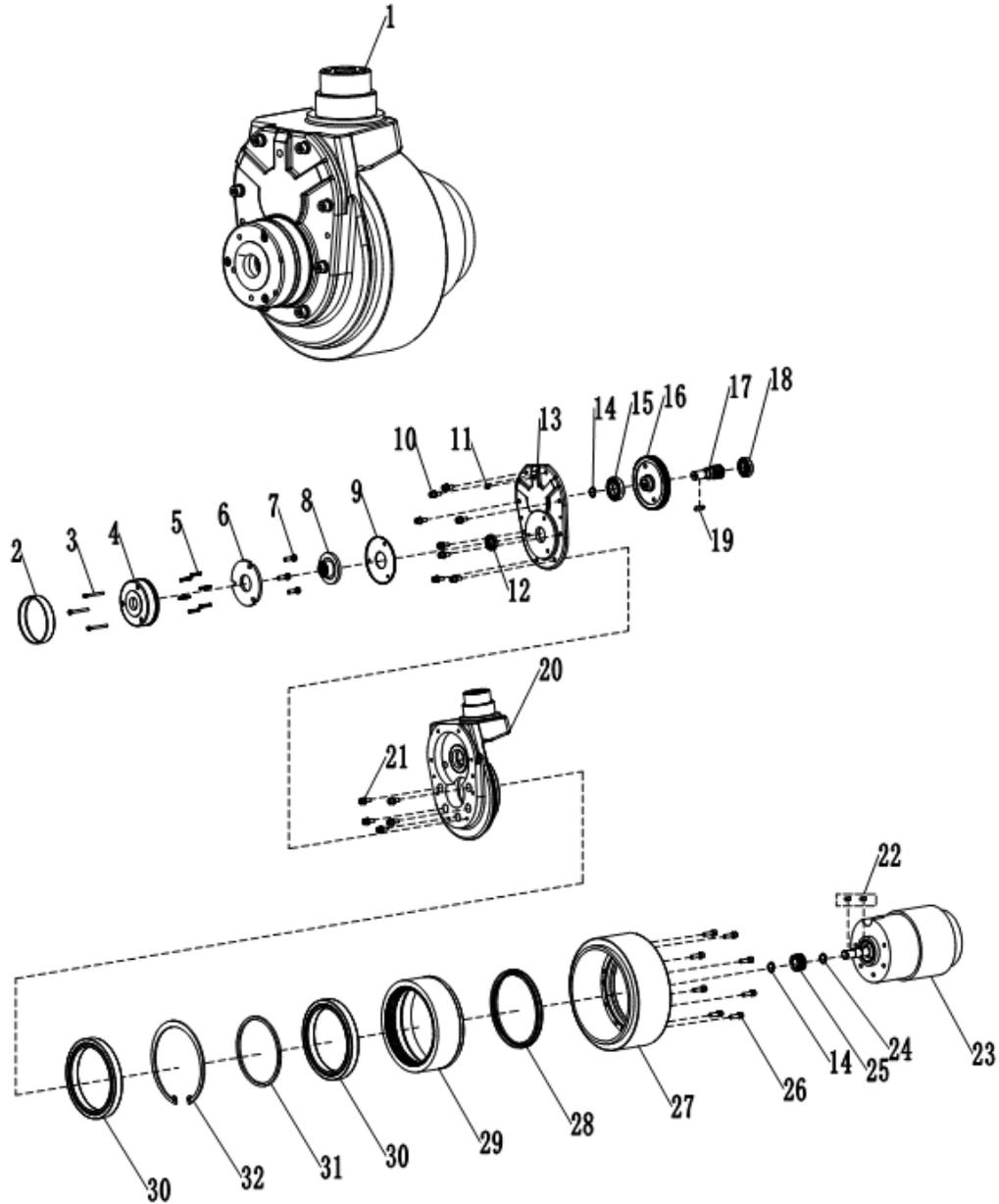
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
17	A6117101607	手柄上盖	Handle upper cover	1		
18	A6163601007	开关安装支架	Switch mounting bracket	2		
19	A5050103001	十字槽盘头螺钉 ST2.9x9.5	Hexagon socket cap screw	3		
20	A5010112022	喇叭按板	Horn button panel	2		
21	A8090125119	U型卡	U-clip	1		
22	A8090125151	压簧	Pressure spring	1		
23	A8090125120	内六角圆柱头螺钉 M5x12	Hexagon socket cap screw	12		
24	A2010506007	手柄下盖	Handle lower cover	1		
25	A7060810007	龟速按板	Slow-speed button panel	1		
26	A7150101007	内六角圆柱头螺钉 M5x55	Hexagon socket cap screw	2		
27	A6111105007	龟速开关安装卡	Slow-speed switch mounting clip	1		
28	A8260148090	装饰盖板	Decorative cover plate	1		
29	A8260148087	内六角圆柱头螺钉 M5x25	Hexagon socket cap screw	2		
34	A8260148092	升降按板	Lift button panel	1		
35	A8260148089	侧移按板	Lateral shift button panel	1		

1.1.2 驱动轮总成 || Steering Wheel Assembly



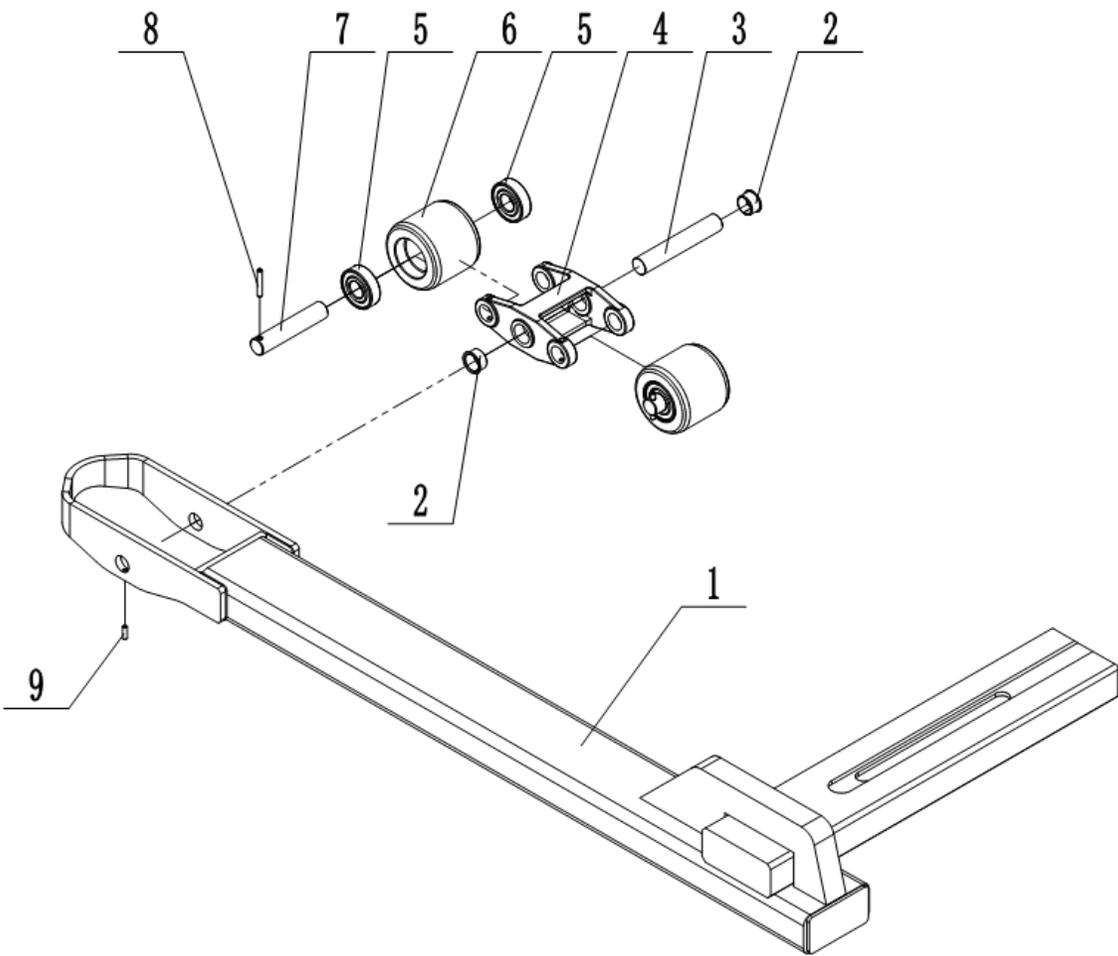
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	83101243007	驱动总成	Drive Assembly	1		
2	A7060355015	防尘皮圈	Dust ring	1		
3	A6162607013	内六角圆柱头螺钉 M4x40	Hexagon socket cap screw M4x40	3		
4	A6162603011	制动器定子	Brake stator	1		
5	A6163101029	弹簧	Spring	6		
6	A7060621063	衔铁	Link iron plate	1		
7	A6165102008	六角头螺栓半螺纹 M6x20	Hexagon bolt M6x20	3		
8	A7010110008	摩擦盘	Friction disk	1		
9	A6165109068	摩擦板	Friction plate	1		
10	A7060901028	内六角圆柱头螺钉 M6x16	Hexagon socket cap screw M6x16	8		
11	A5020120009	M8黄油嘴	M8 Grease fitting	1		
12	A7010110093	骨架油封Φ16xΦ28x7	Metal frame oil seal	1		
13	A6019001052	齿轮箱后盖	Gearbox rear cover	1		
14	A7900301027	轴用弹性挡圈Φ15x1	Axle-use resilient washer	2		
15	A8090124010	深沟球轴承61905-RZ	Deep groove ball bearing	1		
16	A7310207913	一级从动齿轮	Driven gear	1		

1.1.2 驱动轮总成 || Drive Wheel Assembly



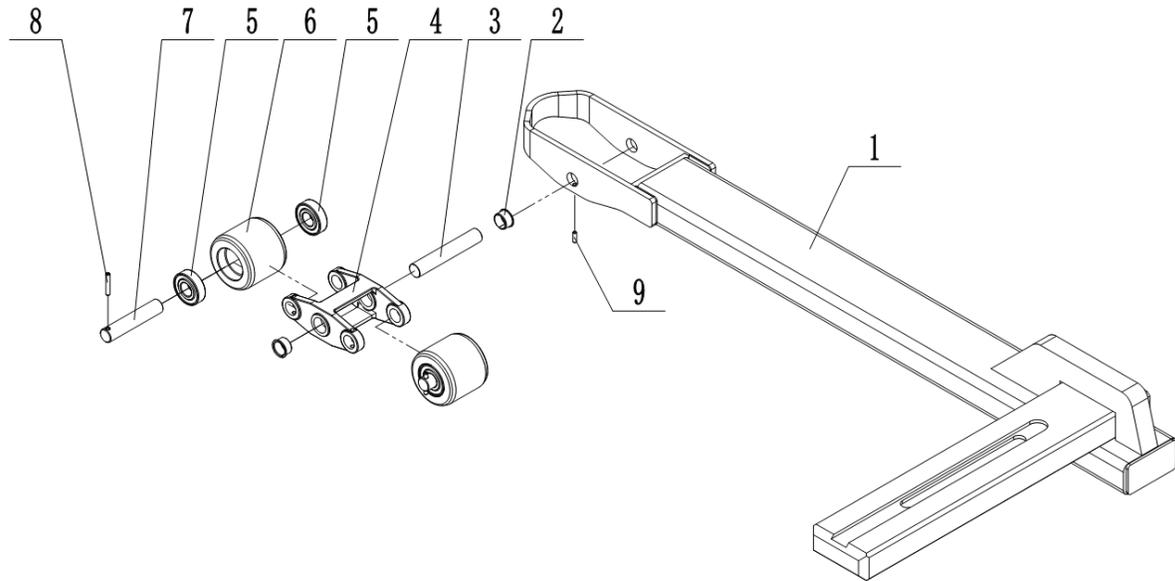
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
17	A6117101608	二级主动齿轮轴	Driving gear	1		
18	A6163601008	深沟球轴承6003-2Z	Deep groove ball bearing	1		
19	A5050103002	平键	Flat key	1		
20	A5010112020	驱动齿轮箱	Drive gearbox	1		
21	A8090125116	内六角圆柱头螺钉 M8x30	Hexagon socket cap screw	5		
22	A8090125152	平键	Flat key	2		
23	A8090125117	电机总成0.75KW	Motor assembly	1		
24	A2010506005	轴用弹性挡圈Φ16x1	Axle-use resilient washer	1		
25	A7060810005	一级主动齿轮	Driving gear	1		
26	A7150101005	内六角圆柱头螺钉 M6x20	Hexagon socket cap screw	8		
27	71501111001	轮圈φ210*75	Wheel rim	1		
28	A8260148006	骨架油封	Metal frame oil seal	1		
29	A8260148079	大齿圈	Big gear ring	1		
30	A8260148082	深沟球轴承61824- 2RS	Deep groove ball bearing	2		
31	A8260148080	塑料垫圈	Plastic washer	1		
32	A8260148081	孔用弹性挡圈Φ150	Hole-use resilient washer	1		

1.2. QES15ZY.14.03-00 车脚组件左 || The Foot Assembly (Left)



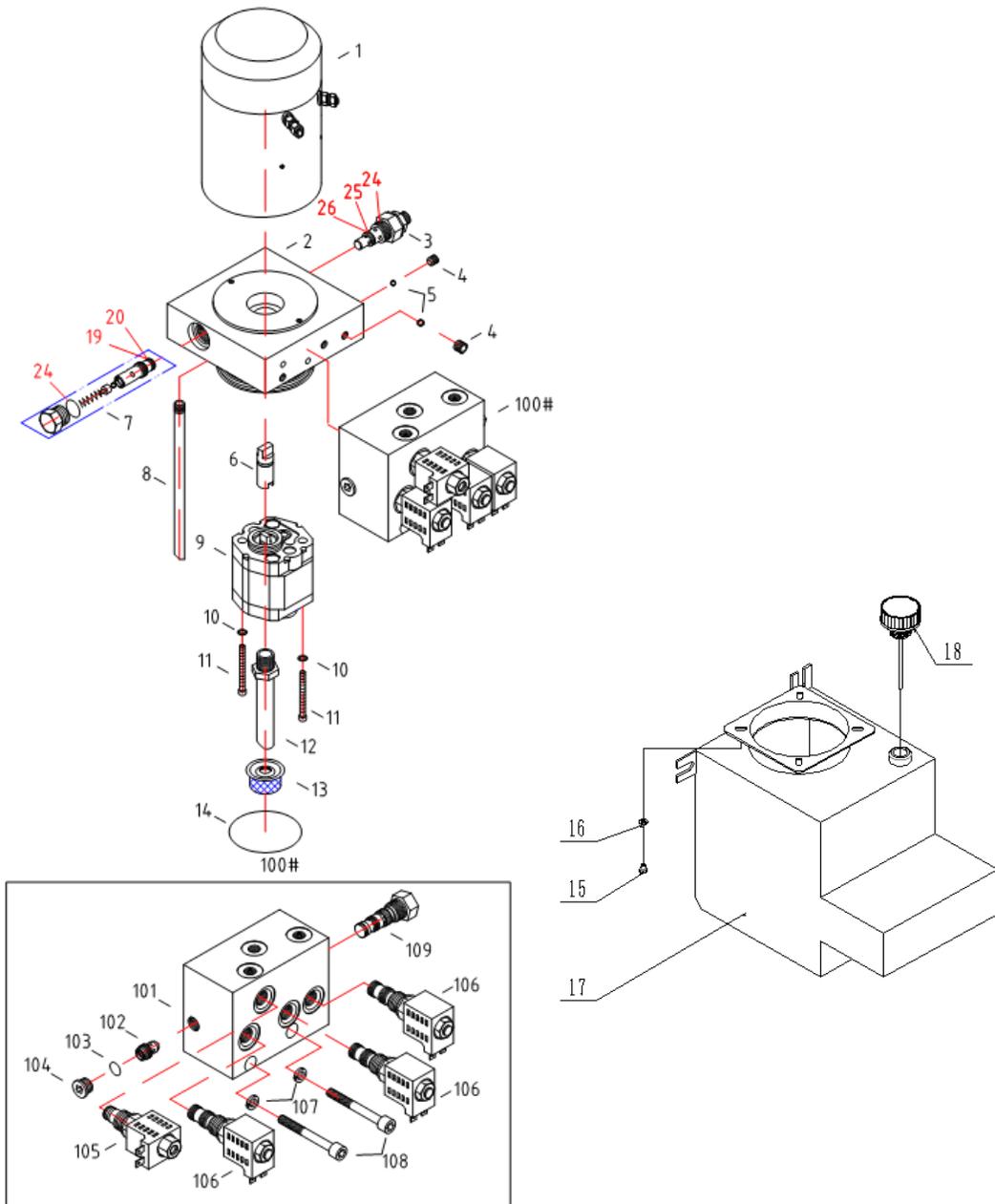
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1	20106060076	车脚焊合左	Left Welded Foot Assembly	1		
2	72902200001	带肩复合衬套 20*23*15/30	Composite bush with shoulder	2		
3	70101200019	连接销φ20*118	Connecting Pin	1		
4	75103010004	轮架	Roller carrier	1		
5	50801200002	深沟球轴承6204-2RS	Deep groove ball bearing	4		
6	71501010001	直轮φ80*70	Load wheel	2		
7	70101200035	小轮轴φ20*100	Small Wheel Axle	2		
8	50601050006	弹性圆柱销φ5*35	Spring column pin	2		
9	50221050005	内六角平端紧定螺钉 M5*16	Hexagon flat head tighten screw	1		

1.3. QES15ZY.14.04-00 车脚组件右 || The Foot Assembly (Right)



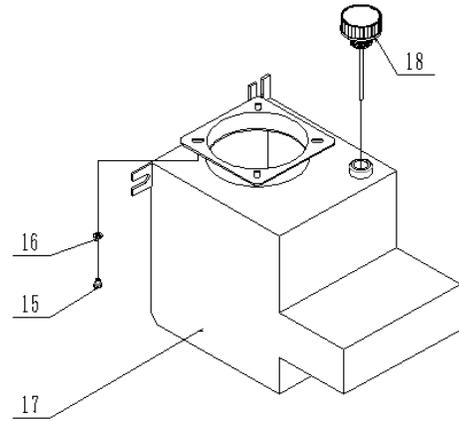
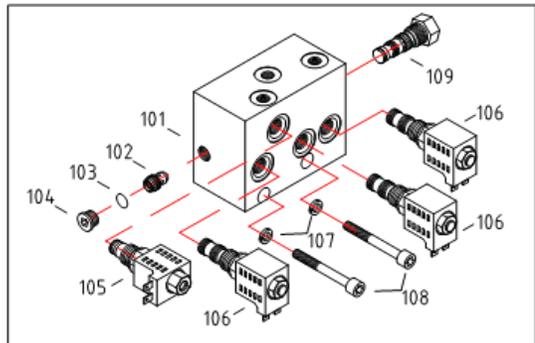
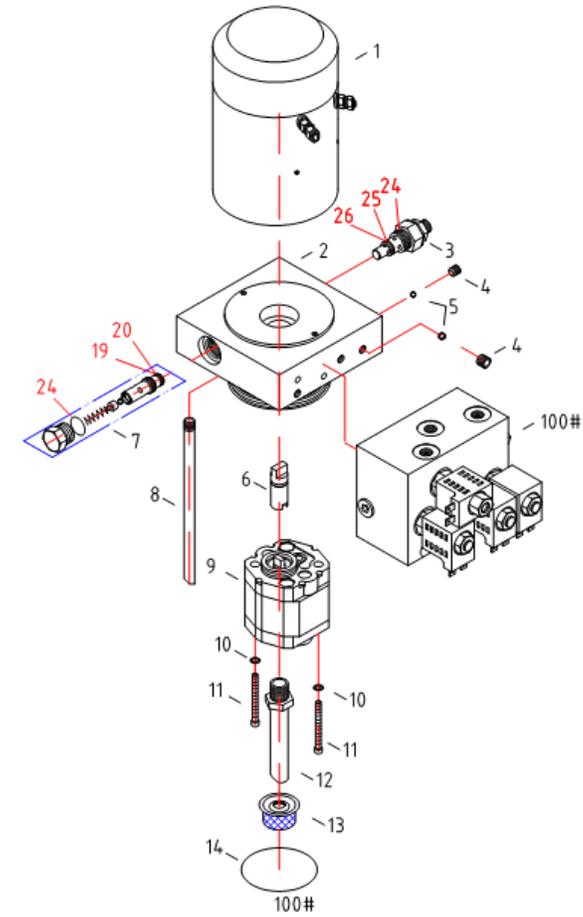
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	20106060077	车脚焊合右	Right Welded Foot Assembly	1		
2	72902200001	带肩复合衬套 20*23*15/30	Composite bush with shoulder	2		
3	70101200019	连接销φ20*118	Connecting Pin	1		
4	75103010004	轮架	Roller carrier	1		
5	50801200002	深沟球轴承6204-2RS	Deep groove ball bearing	4		
6	71501010001	直轮φ80*70	Load wheel	2		
7	70101200035	小轮轴φ20*100	Small Wheel Axle	2		
8	50601050006	弹性圆柱销φ5*35	Spring column pin	2		
9	50221050005	内六角平端紧定螺钉 M5*16	Hexagon flat head tighten screw	1		

1.5 泵站总成 || Pump Station Assembly



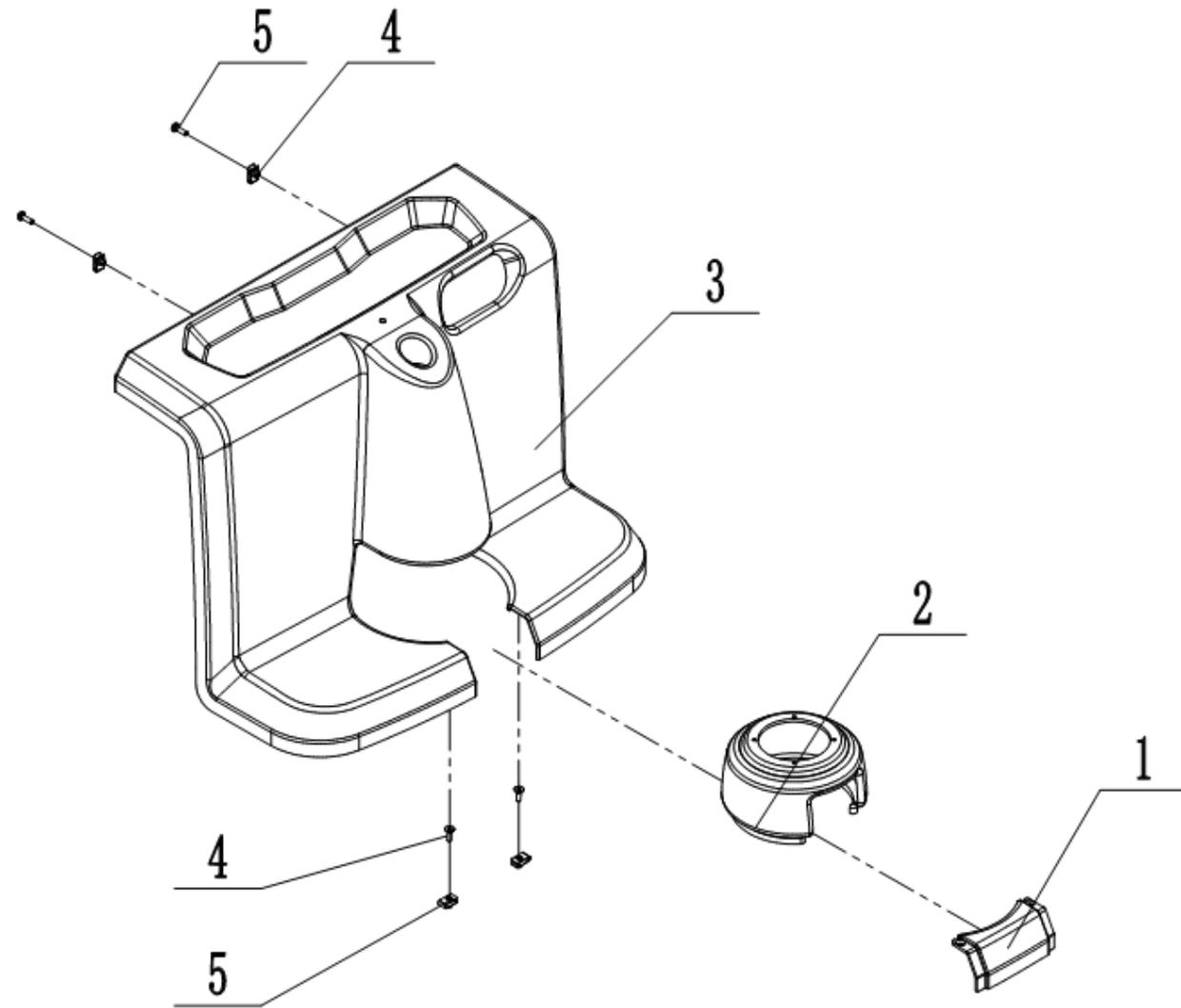
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	A5021102113	直流电机 2.2KW/24V	DC motor	1		
2	A7060355020	连接阀板	Valve connecting plate	1		
3	A6162607030	直动式溢流阀	Direct-acting relief valve	1		
4	A6162603017	螺钉M8x8	Screw	2		
5	A6163101033	钢球6G20b	Steel ball	2		
6	A7060621067	连接轴	Connecting axle	1		
7	A6165102012	单向阀部件	Check valve assembly	1		
8	A7010110014	回油管	Oil return pipe	1		
9	A6165109072	齿轮泵2.1cc/r	Gear pump	1		
10	A7060901032	圆形垫圈φ8	Round washer	2		
11	A5020120012	螺钉M8x80	Screw	2		
12	A7010110015	吸油管	Oil suction pipe	1		
13	A6019001061	滤油器 (G3/8) 150目/时	Oil filter	1		
14	A7900301030	O形圈100x3.55	O-ring	1		
15	50101050002	六角头螺栓 M5*12	Hexagon bolt	4		
16	50511050001	弹性垫圈φ5	Resilient washer	4		

1.5 泵站总成 || Pump Station Assembly



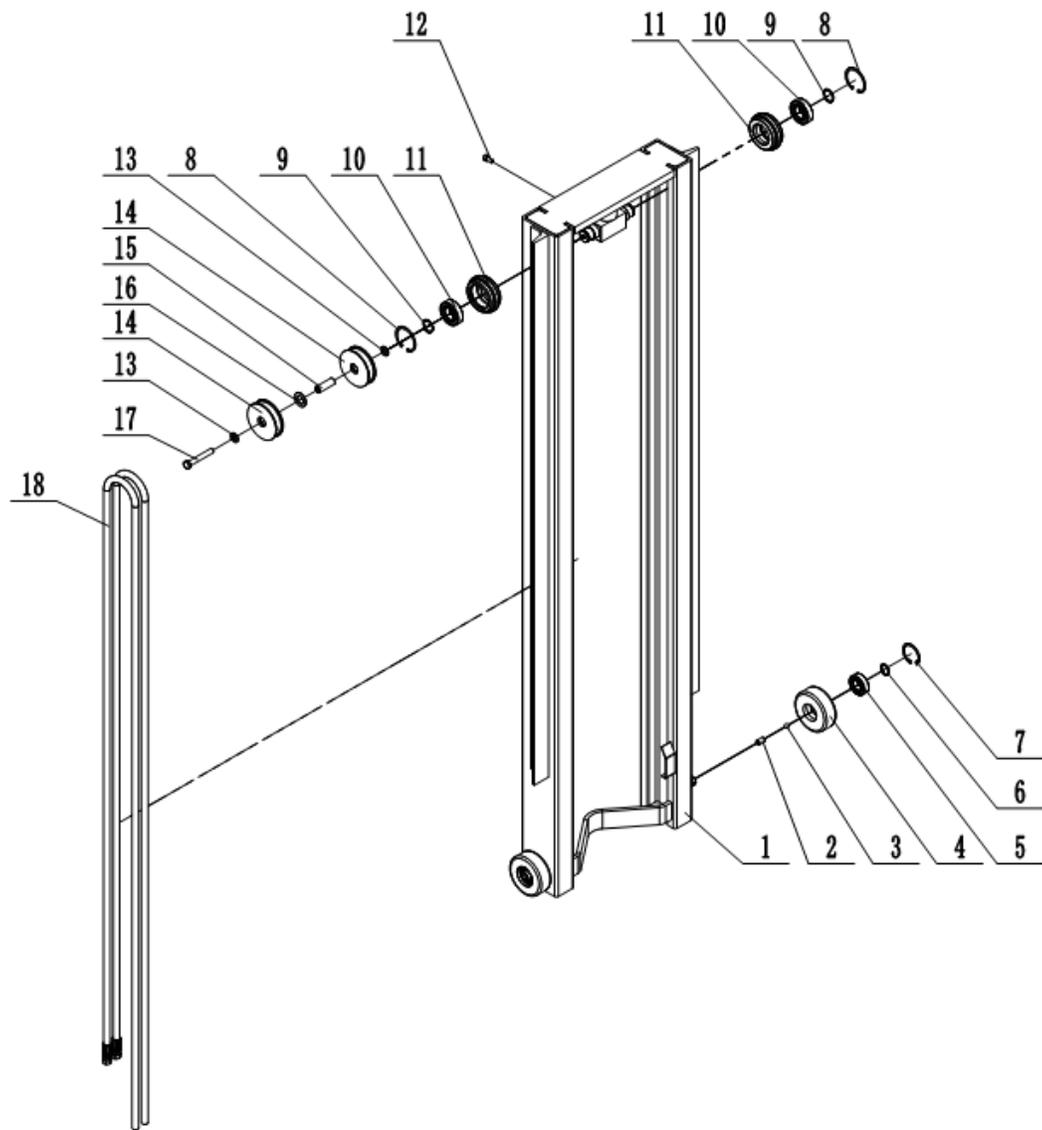
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
17	61636020003	金属油箱	Metal fuel tank	1		
18	A7900301032	油箱盖	Tank cap	1		
19	A8090124013	O形圈8.5x1.5	O-ring	2		
20	A7310207917	单向阀挡圈	Check valve retaining ring	1		
21	A6117101613	O形圈16.36x2.21	O-ring	1		
24	A6163601013	O形圈15.5x1.8	O-ring	1		
25	A5050103012	O形圈11.6x1.8	O-ring	1		
26	A5010112025	挡圈14.8*12.2*0.8	circlip	1		
100#	A5021102114	集成阀块部件	Integrated valve manifold assembly	1		
101	A7060355021	集成阀块	Integrated valve manifold	1		
102	A6162607022	节流阀 2.4孔	Restrictor valve	1		
103	A6162603018	O型圈	O-ring	1		
104	A6163101034	螺塞9/16-18UNF-2A	Threaded plug	1		
105	A7060621068	二位二通电磁插装阀 24V	2-position 2-way solenoid cartridge valve	1		
106	A6165102013	二位三通电磁插装阀 24V	2-position 3-way solenoid cartridge valve	3		
107	A7010110016	圆形垫圈φ8	Round washer	2		
108	A6165109073	螺钉M8x70	Screw	2		
109	A7060901033	液压锁	Hydraulic lock	1		

1.6 覆盖件总成 || Cover Assembly



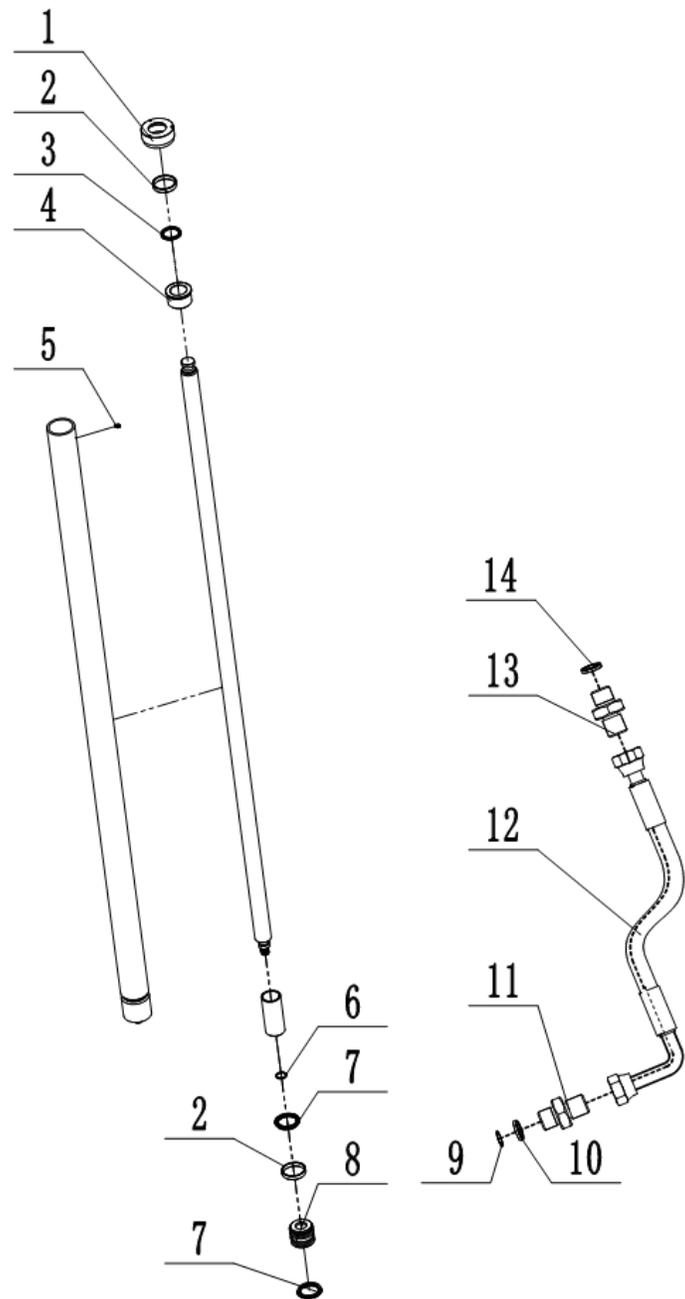
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	73506010003	面罩封板	Mask Cover Plate	1		
2	73506010002	手柄罩	Handle Cover	1		
3	73506010001	配电箱面罩	Distribution Box Cover	1		
4	70325060001	弹簧卡扣螺母M6	Spring Clip Nut	4		
5	50203060007	内六角沉头螺钉 M6*20	Hexagon socket countersunk head screw	4		

2. QES15ZCY.15-00 内门架总成 || Inner Mast Assembly



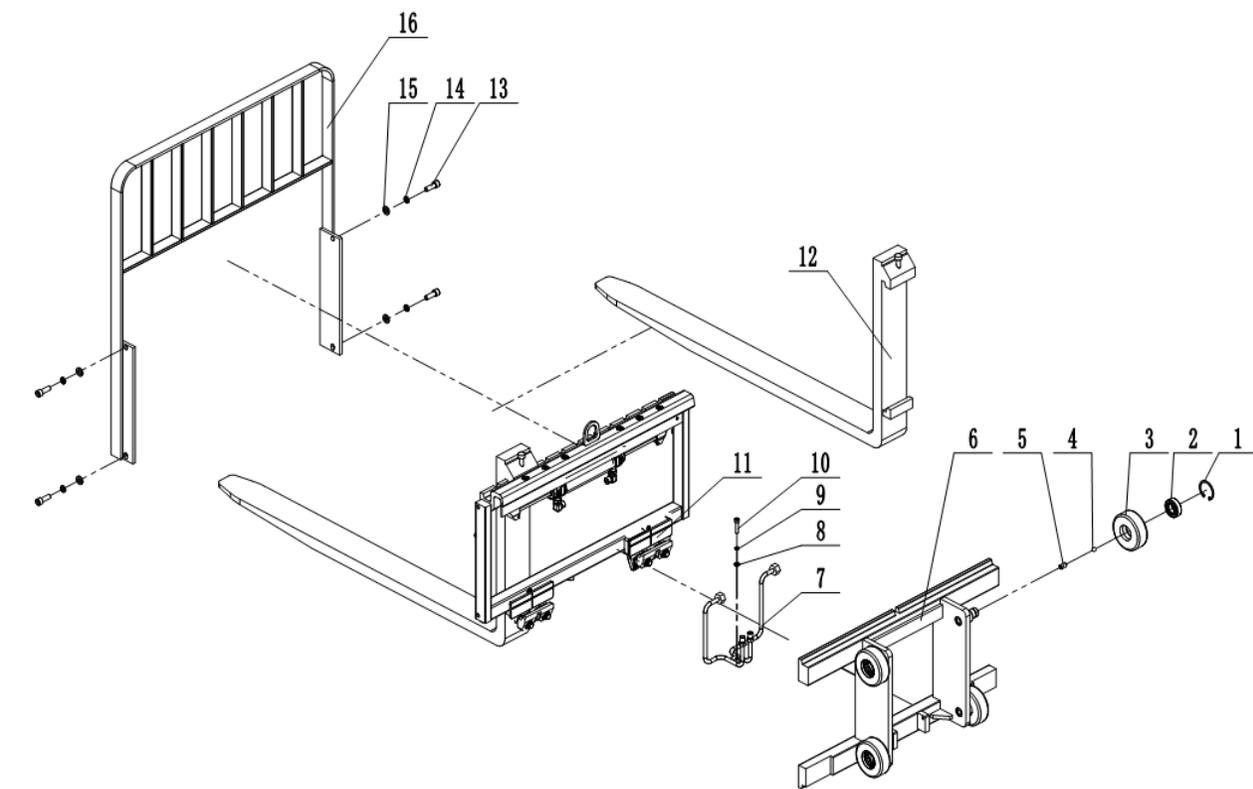
序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	20106060079	内门架焊合	Inner mast weldment	1		3000
	20106060087	内门架焊合	Inner mast weldment	1		3700
2	50221120006	内六角平端紧定螺钉 M12×20	Hexagon flat head tighten screw	2		
3	79001130001	钢球φ13.5	Steel ball	2		
4	71101010008	滚轮	Roller	2		
5	50801250008	深沟球轴承6205-2RS	Deep groove ball bearing	2		
6	50521251001	轴用弹性挡圈φ25	Bearing-use circlip	2		
7	50521522001	孔用弹性挡圈φ52	Hole-use resilient washer	2		
8	50521622001	孔用弹性挡圈φ62	Hole-use resilient washer	2		
9	50521301001	轴用弹性挡圈φ30	Bearing-use circlip	2		
10	50801300002	深沟球轴承6206-2RS	Deep groove ball bearing	2		
11	71103010001	链轮	Chain wheel	2		
12	50201080002	内六角圆柱头螺钉 M8*16	Hexagon socket cap screw	1		
13	50501120001	圆形垫圈φ12	Round washer	2		
14	71107010003	油管滑轮	Hydraulic hose pulley	2		
15	70605120009	链轮套管φ12*φ17*50	Sprocket bushing/sleeve	1		
16	50501200013	圆形垫圈φ20	Round washer	1		
17	50101120020	六角头螺栓M12*80	Hexagon bolt	1		
18	A6117101612	侧移油管	Side-shift hydraulic hose	2		3000
	A6163601012	侧移油管	Side-shift hydraulic hose	2		3700

3. 液压系统总成 || Hydraulic System Assembly



序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	A7010110102	端盖	End Cover	1		
2	73605100002	导向带45*40*10	Guide Strip	2		
3	61171210005	防尘圈φ38*φ46*5/6	Dust proof ring	1		
4	A8371106005	隔套	Spacer Sleeve	1		
5	A5021102104	消声器	Muffler	1		3000
	A6162603019	消声器	Muffler	1		3700
6	61171010009	O型圈D25*2.4	O-ring	1		
7	61171110006	密封圈φ45*φ55*6	Seal ring	2		
8	A6162603006	活塞	Piston	1		
9	61171010019	O型圈D8.5*1.8	O-ring	1		
10	60622140001	丁腈半包组合垫φ14	NBR Half-Encapsulated Combination Gasket	1		
11	60601010015	油管接头 M14*1.5(74°)/M14*1.5	Oil pipe joint	1		
12	60101010024	高压软管D6l*520/曲直	Oil pipe	1		
13	60601010007	油管接头M14*1.5(74°)- G3/8	Oil pipe joint	1		
14	60622160001	丁腈半包组合垫φ16	NBR Half-Encapsulated Combination Gasket	1		

4. QES15ZCY.17-00 托盘架总成 || Pallet Rack Assembly



序号 Index	代码 Part No.	零件名称	Part Name	数量 Qty	适用日期 Applied Date	备注 Remark
1	50521522001	孔用弹性挡圈φ52	Hole-use resilient washer	4		
2	50801250008	深沟球轴承6205-2RS	Deep groove ball bearing	4		
3	71101010008	滚轮	Roller	4		
4	79001130001	钢球φ13.5	Steel ball	4		
5	50221120006	内六角平端紧定螺钉 M12*20*1.5	Hexagon flat head tighten screw	4		
6	20106060080	滑架焊合	Slider Welding Assembly	1		
7	60111010028	钢管焊合	Steel Tube Welded Assembly	1		
8	50501080001	圆形垫圈φ8	Round washer	1		
9	50511080001	弹性垫圈φ8	Resilient washer	1		
10	50201080007	内六角圆柱头螺钉M8*35	Hexagon socket cap screw	1		
11	72603010001	侧移器LC15G	Side Shifter	1		
12	72602010004	挂钩式货叉	Hook-Type Forks	1		
13	50201120003	内六角圆柱头螺钉 M12×35	Hexagon socket cap screw	4		
14	50511120001	弹性垫圈φ12	Resilient washer	4		
15	50501120001	圆形垫圈φ12	Round washer	4		
16	20106060110	护栏焊合	guardrail welding	1		

