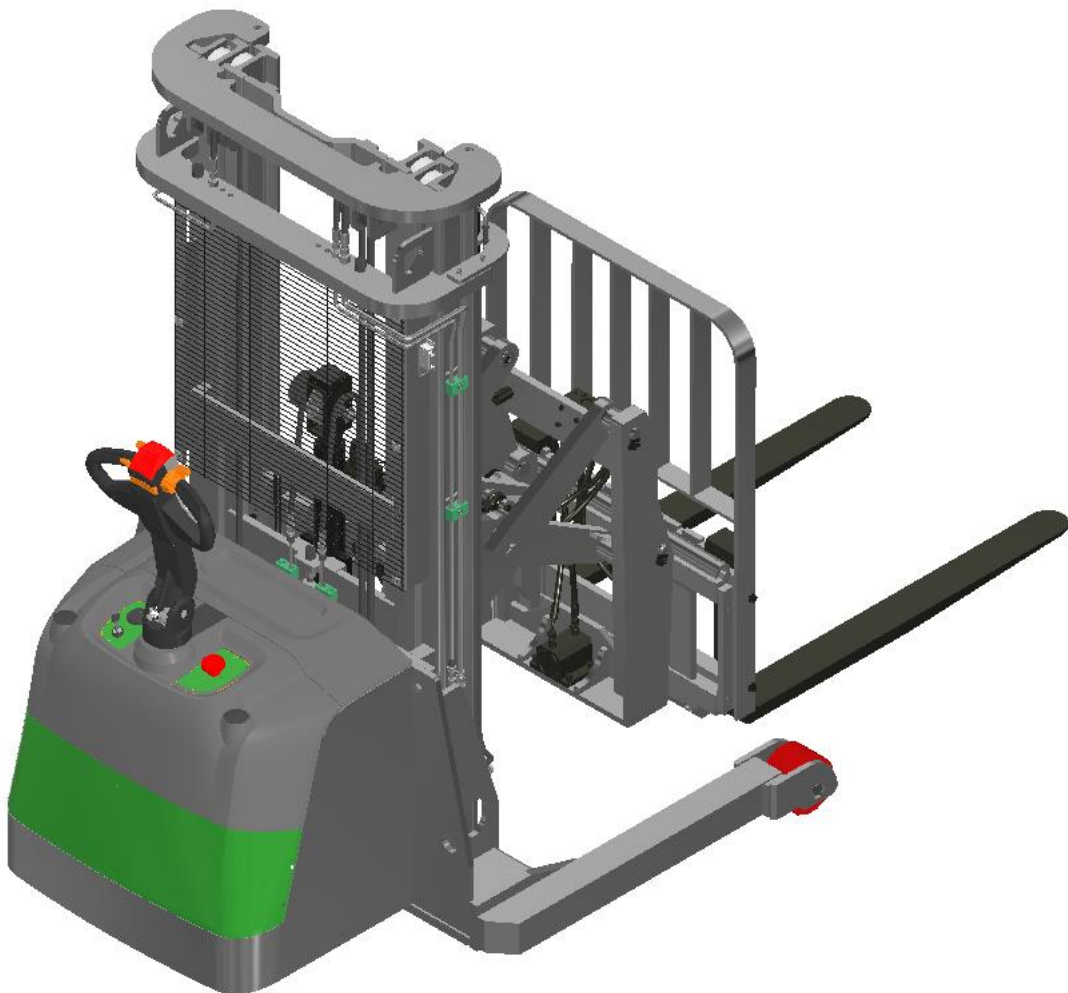


Part Manual

Walkie Reach Truck

ER15



Rear frame assembly

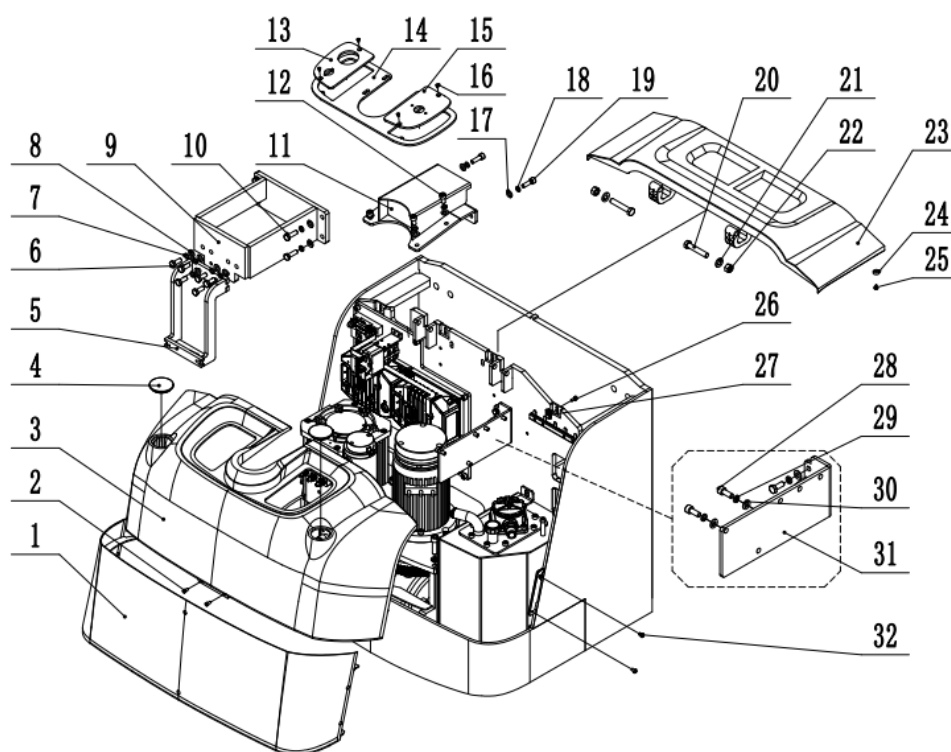


Figure2

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8B21200800001	QBA30A0910000	Lower cover shell	1	
2	2210160000133	GB70.1	Screw M5x10	2	
3	7500010000105	QBA30A0900003	Upper Cover	1	
4	75000100104	QPA-0910001	Blanking cap	2	
5	8Q052000006	CQD15-0430000	Rear cover seat	1	
6	22000400032	GB/T 5783	Bolt M8 x 20	10	
7	22501200004	GB/T 93	Spring washer 8	10	
8	22500100006	GB/T 97.1	Flat washer 8	10	
9	8Q052000004	CQD150420110	Steering bracket	1	
10	22000400025	GB/T 5783	Bolt M8 x 25	4	
11	8B21200600001	QBA30A0440000	Instrument base	1	
12	22101600025	GB70.1	Screw M6x12	4	
13	7200100001716	QBA30A0900005	Left lamina	1	
14	7200100001717	QBA30A0900006	Instrument board	1	
15	22101800018	GB70.3	Countersunk head screw M4x8	4	

Table2-1

Rear frame assembly

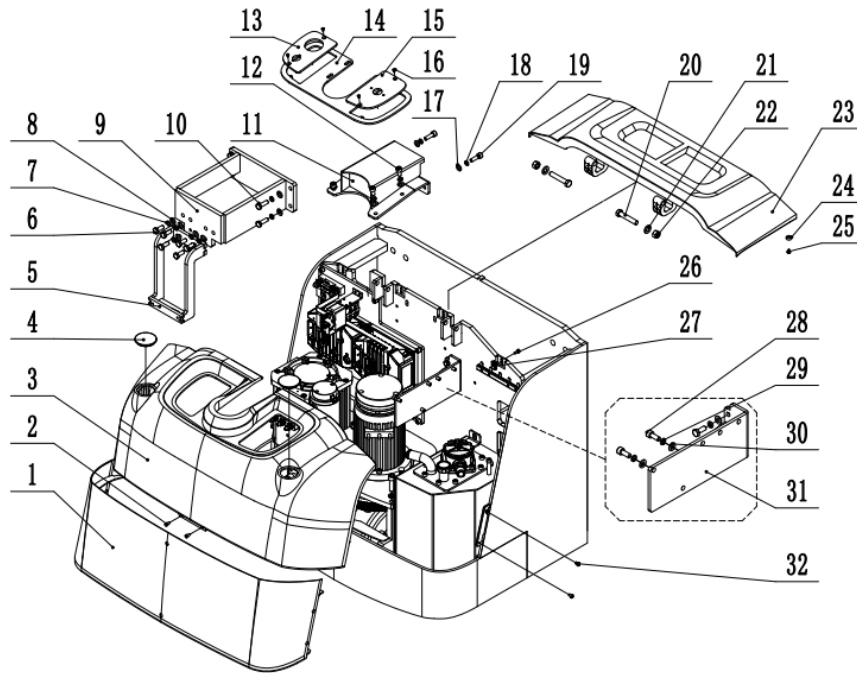


Figure2

Index	Part No.	Drawing Number	Part Name	QTY	Remark
16	7200100001718	QBA30A0900007	Right plate	1	
17	22500100005	GB/T 97.1	Flat washer 6	2	
18	22501200003	GB/T 93	Spring washer 6	2	
19	22101600028	GB/T 70.1	Screw M6 x 20	2	
20	2210430000007	GB846	Countersunk head tapping screw M4x12	2	
21	7900040000005	QBA30A0920002	High strength magnet	2	
22	7500010000144	QDA15D0920001	Battery cap	1	
23	2200030000050	GB5782	Screw M12 x 65	2	
24	22500100008	GB/T 97.1	Flat washer 12	2	
25	22400300006	GB/T 6170	Nut M12	2	
26	22101600017	GB/T 70.1	Screw M5 x 12	4	
27	7200500000315	QBA30A0900004	u-clamp	4	
28	22101600034	GB/T 70.1	Screw M8 x 20	3	
29	22501200004	GB/T 93	Spring washer 8	3	
30	22500100006	GB/T 97.1	Flat washer 8	3	
31	8Q052000028	CQD15-0420150	Proportional valve seat	1	
32	22101700004	GB/T 70.2	Screw M6 X 10	4	

Table2-2

Rear frame piping

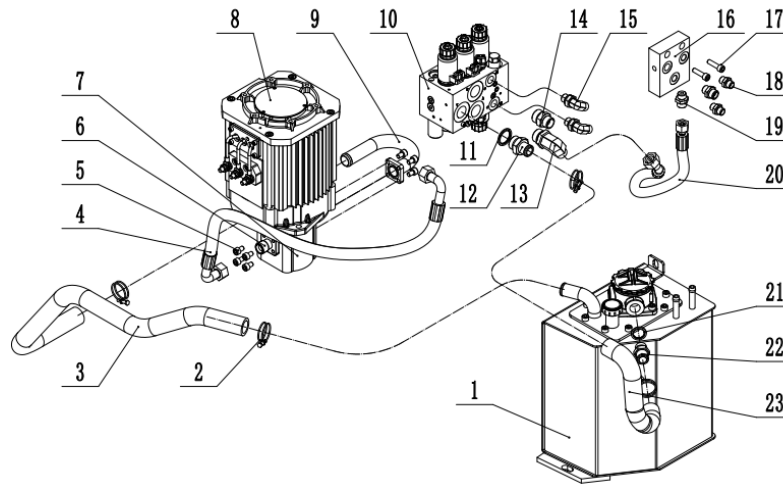


Figure3

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q054002001	CQD15-1200500	Tank assembly	1	
2	23300100006	JB8870	Throat band 35	4	
3	73004000472	CQD15-1201001	Pump oil inlet hose	1	
4	73004000563	YG-10505-1000	No. 5 Oil pipe (P inlet soft pipe)	1	
5	22101600087	GB/T 70.1	Screw M6X16	8	
6	7300600000083	CQD15-1200001	Pump out oil connection	1	
7	73001000004	P15S1221000	Gear pump assembly	1	
8	11008000049	YS175HFRC004-008	Oil pump motor 4KW	1	
9	7300600000084	CQD15-1200003	Pump inlet connection	1	
10	73005000080	CQD15-1203004	Multiway valve dual	1	
11	21001100011	JB982-77	Combined seal gasket 27	1	
12	73006000116	CQD15-1200605	Return pipe connection	1	
13	73006000118	1CG9-22-12OGZF	splice	1	
14	73006000119	1CG-22-12	splice	1	
15	73006000120	1CG9-16-06OG	splice	2	
16	73005000079	CQD15-1200009	Four way valve block	1	
17	22101600036	GB/T 70.1	Screw M8 x 30	2	
18	73006000109	1CH-14	splice	2	
19	73006000104	1CH-18-16	splice	1	
20	73004000562	YG-10504-550	No. 4 Tubing (A tubing)	1	
21	21001100008	JB982-77	Combined seal gasket 22	1	
22	73006000127	CQD15-1200607	Filter connection	1	
23	73004000509	CQD15-1201004	Oil return hose	1	

Table3

Tank assembly

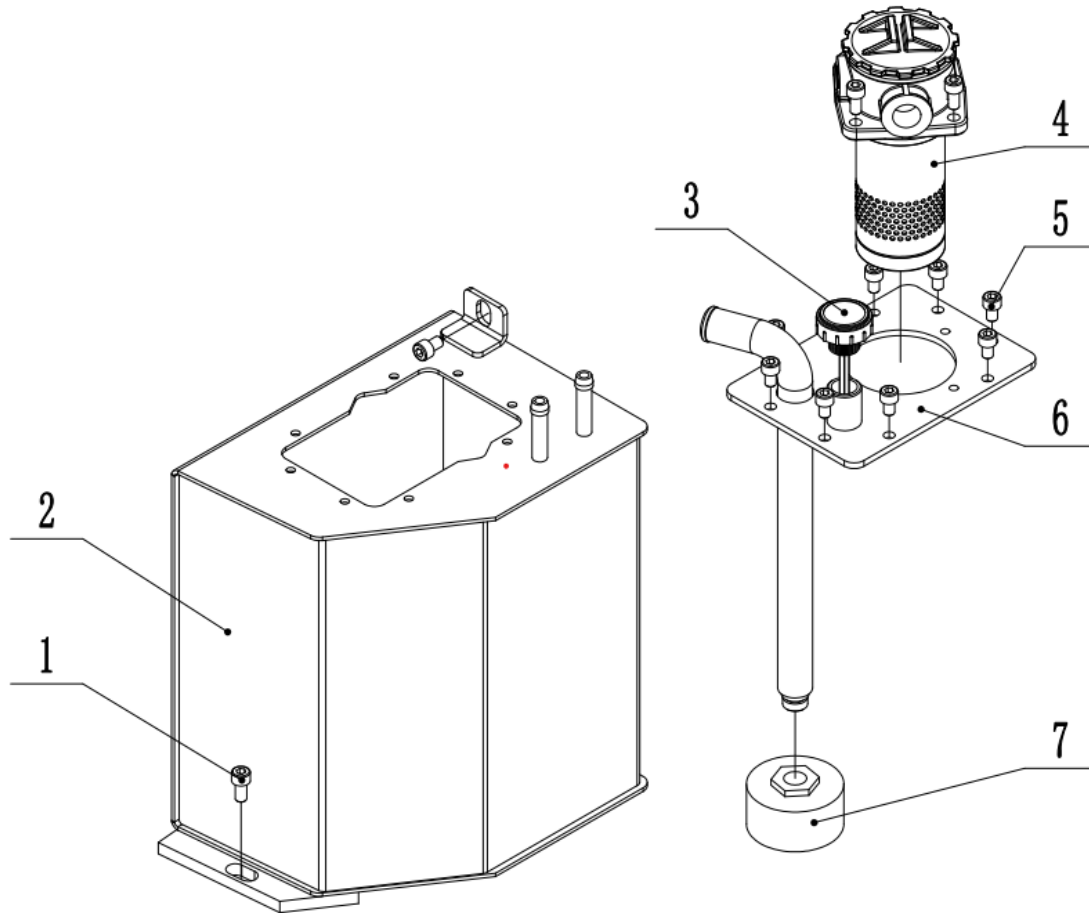


Figure4

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22101600033	GB/T 70.1	Screw M8 x 16	1	
2	73000200010	CQD15-1200510	Fuel tank	1	
3	73009900019	BOA-03505	G1/2 tank cap	1	
4	30160000300	RFA25-10	Return filter	1	
5	22101600032	GB/T 70.1	Screw M8 x 12	9	
6	7300990000018	CQD15-1200520	Fuel tank cap	1	
7	730099000007	QQA-05071	screen	1	

Table4

Straddle assembly

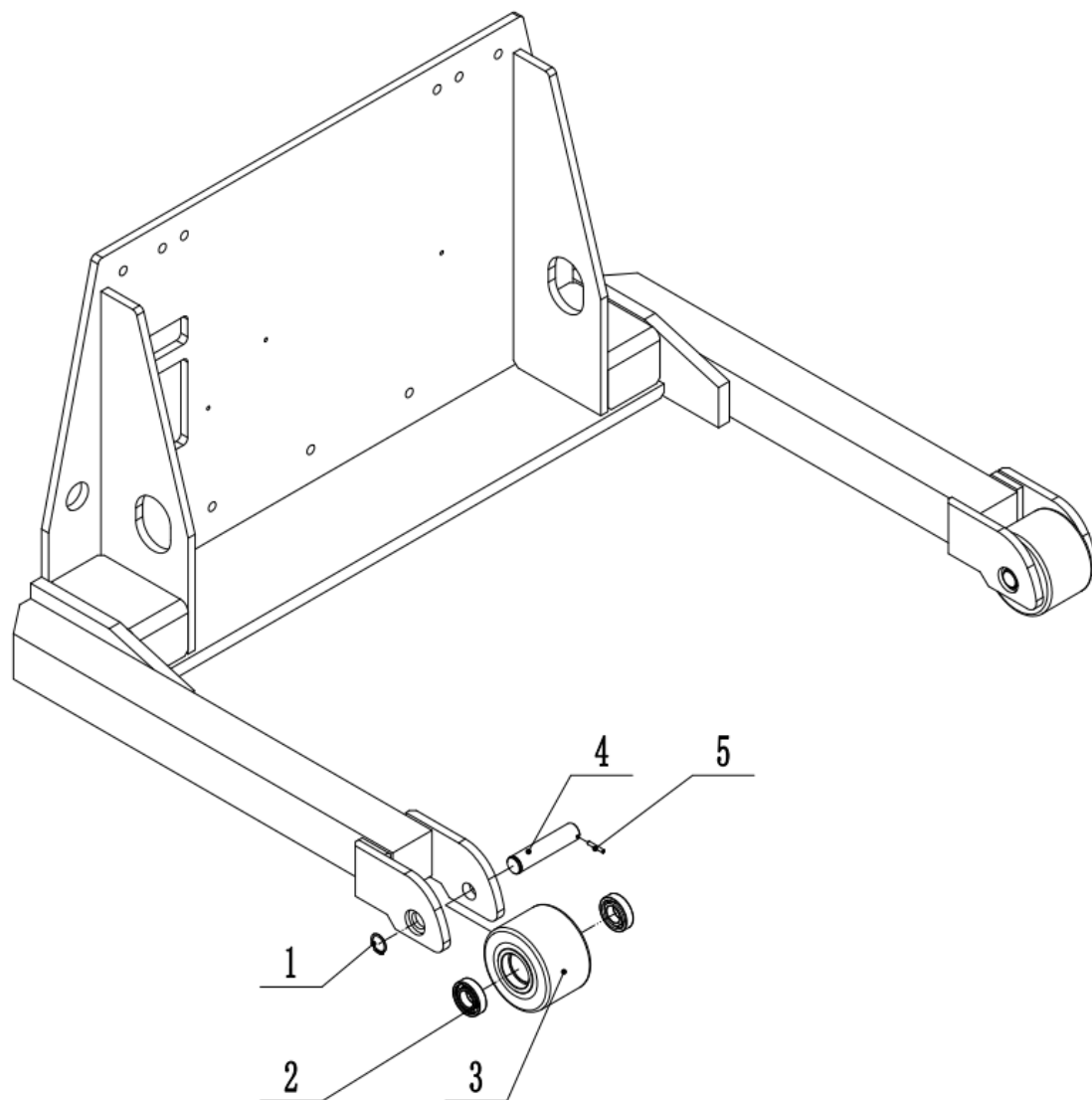


Figure5

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22600900008	GB894.1	retaining ring 30	2	
2	2300010000048	GB/T 276	bearing 6206	4	
3	71003000068	BOA-07001	wheel	2	
4	72003000368	BOA-07002	Front axle	2	
5	2280070000041	GB879.1	Elastic cylindrical pin -5x35	2	

Table5

Frame System - Three level frame assembly

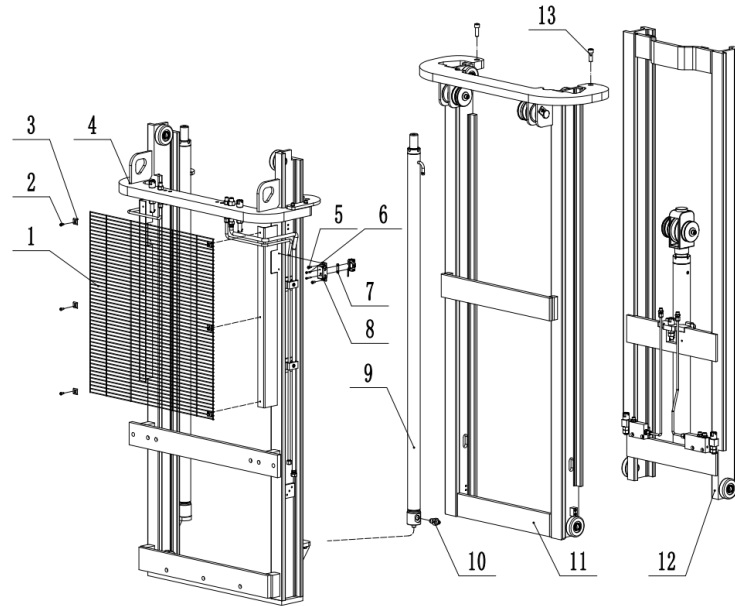


Figure6

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	79000500035	CQD15-8345001	grid	1	
	79000500048	CQD15-8348001	grid	1	
	79000500049	CQD15-8350001	grid	1	
	79000500050	CQD15-8355001	grid	1	
2	22101600025	GB/T 70.1	Screw M6 x 12	6	
3	72002000669	BDA-00001	Fixed climb	6	
4	8Q054003001	CQD15-8311100	Outer frame assembly	1	Figure7
5	22101600025	GB/T 70.1	Screw M6 x 12	2	
6	22101600149	GB/T 70.1	Screw M4 x 25	2	
7	72001000014	P251370001	Fixed plate	1	
8	72002004261	QQA-14009	Switch housing	1	
9	73007000312	CQD15-1245100	4.5m side cylinder	2	
	73007000331	CQD15-1248100	4.8 m side cylinder	2	
	73007000313	CQD15-1250100	5.0 m side cylinders	2	
	73007000314	CQD15-1255100	5.5 m side cylinder	2	
	73007000315	CQD15-1260100	6.0 m side cylinder	2	
10	73005000085	CQD15-1200101	Shutoff valve	1	
11	8Q054003002	CQD15-8311200	Middle frame assembly	1	Figure8
12	8Q054003003	CQD15-8311300	Internal frame assembly	1	Figure9
13	22101600159	GB/T 70.1	Hex socket head screw M14 x 40	2	

Table6-1

This diagram shows an exploded perspective view of a mechanical assembly. The components are numbered as follows:

- 1: A long vertical support rail.
- 2: A vertical rod with a pin at the bottom.
- 3: A horizontal crossbar.
- 4: A curved bracket.
- 5: A small pin or screw.
- 6: A pin or screw.
- 7: A pin or screw.
- 8: A pin or screw.
- 9: A vertical rod with a pin at the top.
- 10: A vertical rod with a pin at the top.
- 11: A vertical rod with a pin at the top.
- 12: A vertical rod with a pin at the top.
- 13: A vertical rod with a pin at the top.
- 14: A vertical rod with a pin at the top.
- 15: A vertical rod with a pin at the top.
- 16: A vertical rod with a pin at the top.
- 17: A vertical rod with a pin at the top.
- 18: A vertical rod with a pin at the top.
- 19: A vertical rod with a pin at the top.
- 20: A vertical rod with a pin at the top.
- 21: A vertical rod with a pin at the top.
- 22: A vertical rod with a pin at the top.
- 23: A vertical rod with a pin at the top.
- 24: A vertical rod with a pin at the top.

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000008	CQD15-8345100	Outer frame 4.5m	1	
	8Q052000029	CQD15-8348100	Outer frame 4.8m	1	
	8Q052000009	CQD15-8350100	Outer frame 5m	1	
	8Q052000010	CQD15-8355100	Outer frame 5.5m	1	
	8Q052000011	CQD15-8360100	Outer frame 6m	1	
2	73006000109	1C-14	splice	2	
3	73003010041	CQD15-8700101	Move back hard tube assembly	1	
4	22400600005	GB6176	Nut M14x1.5	4	
5	73006000112	CQD15-8700008	24° Taper fitting M14 short fitting	2	
6	22801600003	GB91	Cotter pin 2.5×25	2	
7	22400600003	GB6176	Nut M16 x 1.5	4	
8	72007000012	BDA-03039	Chain pull head one	1	
9	72001006770	QDA-05019	Stop block	2	

8

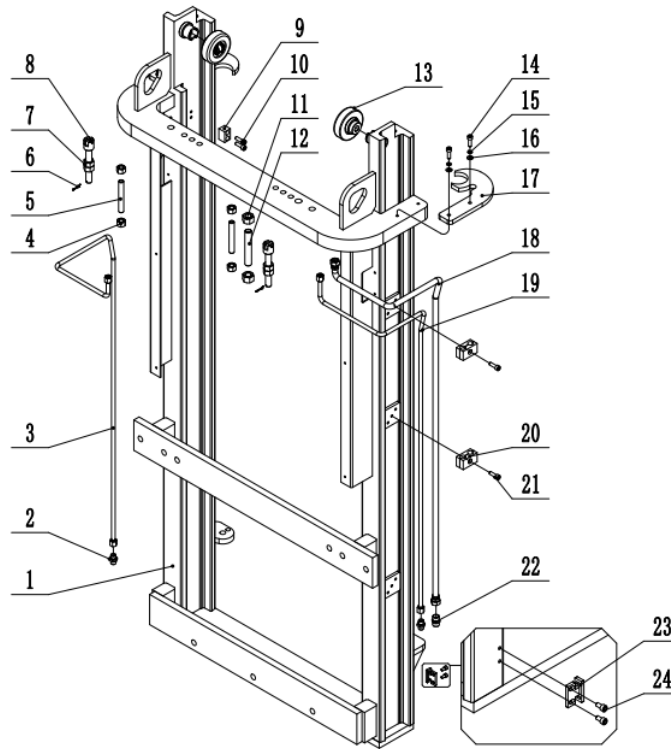


Figure7

Index	Part No.	Drawing Number	Part Name	QTY	Remark
10	22101600035	GB70.1	Hexagonal cylindrical head screw M8X25	4	
11	2240060000005	GB6176-2000	Nut M18	2	
12	7200400000463	CQD15-8700009	24° Taper connector M18	1	
13	71004000024	QRS208300500	760407A composite roller	2	
14	22101600035	GB/T 70.1	Hex socket head screw M8 x 25	4	
15	22501200004	GB/T 93	Spring washer 8	4	
16	22500100006	GB/T 97.1	Flat washer 8	4	
17	72001007131	CQD15-8300007	Side cylinder fixing plate	2	
18	73003010043	CQD15-8700107	Medium cylinder hard tube assembly	1	
19	73003010042	CQD15-8700106	Move forward hard tube assembly	1	
20	73009900006		Double hole pipe clamp 14	2	
21	22101600035	GB/T 70.1	Screw M8 x 25	2	
22	73006000108	1C-18	splice	1	
23	72001007201	CQD15-8300403	Speed limiting plate	1	
24	22101600025	GB/T 70.1	Screw M6 x 12	2	

Table7-2

Frame System - Middle frame assembly

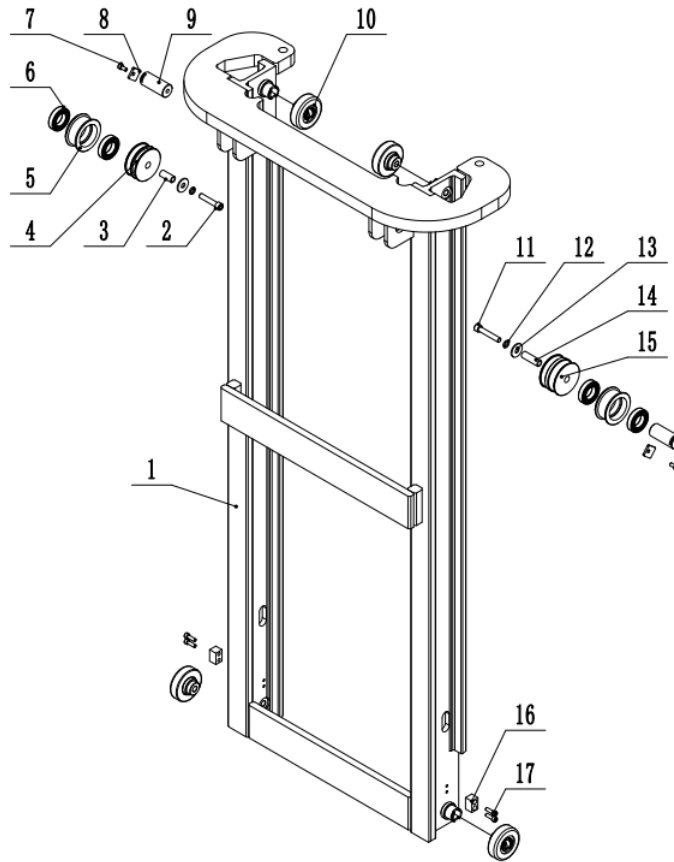


Figure 8

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000012	CQD15-8345200	Middle frame 4.5M	1	
	8Q052000030	CQD15-8348200	Middle frame 4.8M	1	
	8Q052000013	CQD15-8350200	Middle frame 5M	1	
	8Q052000014	CQD15-8355200	Middle frame 5.5M	1	
	8Q052000015	CQD15-8360200	Middle frame 6M	1	
2	22101600067	GB70.1	Screw M12X60	1	
3	72003001260	CQD15-8300028	Tube wheel shaft sleeve	1	
4	30170000147	CQD15-8300025	Single tube nylon roller + wire	1	
5	71004100003	QDA-06008	Chain roller	2	
6	23000100013	GB276	Rolling bearing 6007	4	
7	22101600033	GB70.1	Screw M8 x 16	2	
8	72001007127	CQD15-8301005	Baffle plate	2	

Table8-1

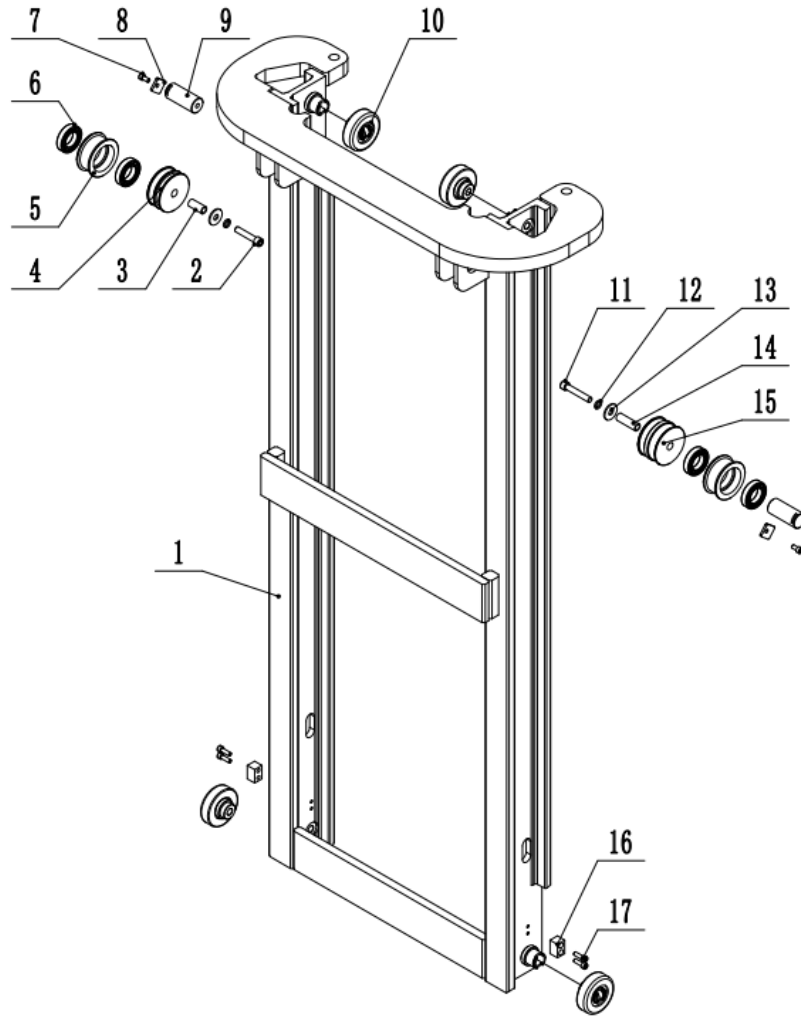


Figure 8

Index	Part No.	Drawing Number	Part Name	QTY	Remark
9	72003001261	CQD15-8300004	Sprocket shaft	2	
10	71004000024	QRS208300500	760407A composite roller	4	
11	22101600089	GB70.1	Screw M12X70	1	
12	22501200006	GB93	Spring washer 12	2	
13	22500500002	GB96.1	Flat washer 12	2	
14	72003001262	CQD15-8300021	Tube wheel shaft sleeve	1	
15	30170000148	CQD15-8300020	Nylon roller	1	
16	72001006770	QDA-05019	Stop block	2	
17	22101600035	GB70.1	Hexagonal cylindrical head screw M8X25	4	

Table8-2

Frame System - Internal frame assembly

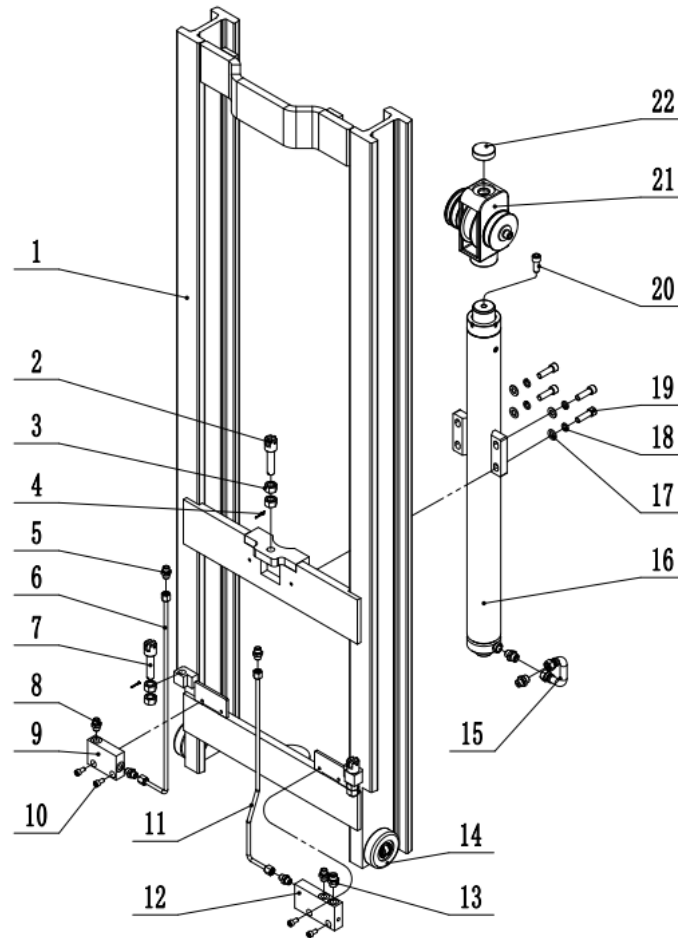


Figure 9

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000016	CQD15-8345300	Internal frame 4.5M	1	
	8Q052000031	CQD15-8348300	Inner frame 4.8M	1	
	8Q052000017	CQD15-8350300	Internal door frame 5M	1	
	8Q052000018	CQD15-8355300	Internal frame 5.5M	1	
	8Q052000019	CQD15-8360300	Internal door frame 6M	1	
2	72007000046	QQA-02507	Chain joint	1	
3	22400600003	GB6176	Nut M16 x 1.5	2	
4	22801600002	GB91	Cotter pin 2 x 16	2	
5	73006000109	1C-14	splice	2	
6	73003010044	CQD15-8700109	Move back hard tube assembly	1	
7	72007000013	BDA-03041	Chain pull head two	1	
8	73006000106	接头	1CH-14	4	
9	73005000077	CQD15-8700120	Oil return transfer valve block	1	

Table9-1

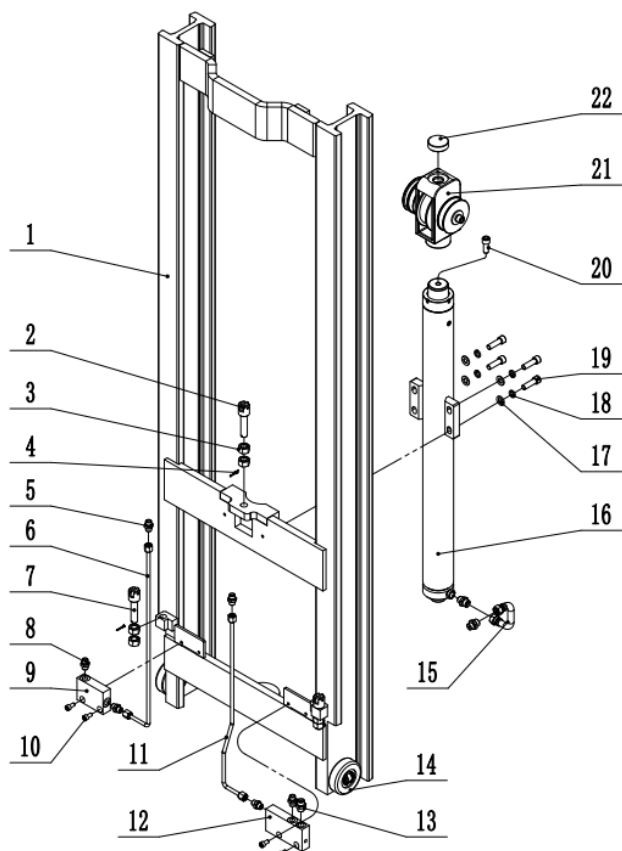


Figure9

Index	Part No.	Drawing Number	Part Name	QTY	Remark
10	22101600033	GB70.1	Screw M8 x 16	4	
11	73003010045	CQD15-8700114	Move forward hard tube assembly	1	
12	73005000076	CQD15-8700119	Two way transfer valve block	1	
13	73006000104	1CH-18-16	splice	3	
14	71004000024	QRS208300500	760407A composite roller	2	
15	73003010046	CQD15-8700116	Medium cylinder hard tube assembly	1	
16	73007000346	QDA20D8300900	Middle cylinder	1	Figure21
17	22500500002	GB96.1	Flat washer 12	4	
18	22501200006	GB93	Spring washer 12	4	
19	22101600065	GB70.1	Screw M12X40	4	
20	22101600062	GB70.1	Screw M12X30	1	
21	8Q054004001		Sprocket seat assembly	1	Figure17
22	75000100048	QQA-02511	Shock block one	1	

Table9-2

Secondary frame assembly

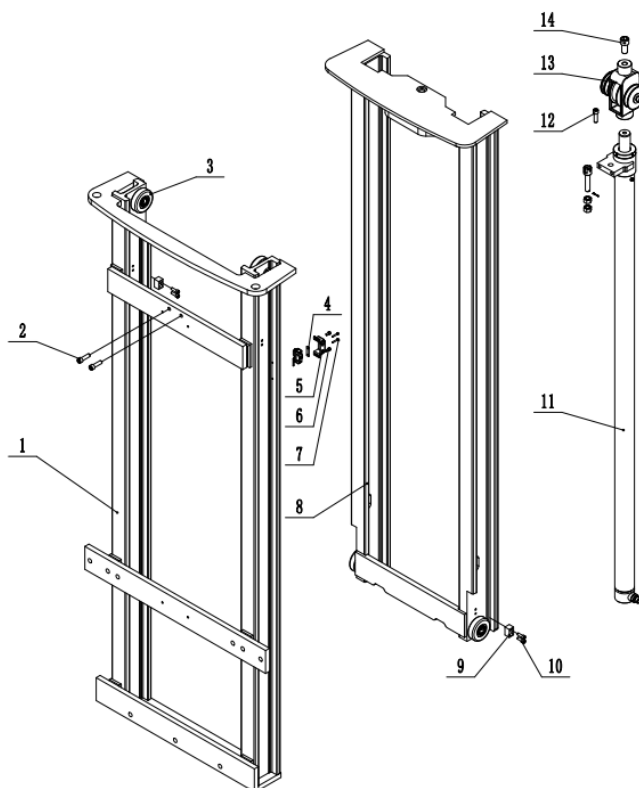


Figure10

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000032	CQD15-8235100	Outer frame welding	1	
2	22101600065	GB/T 70.1	Screw M12 x 40	2	
3	71004000024	QRS208300500	760407A composite roller	4	
4	72001000014	P251370001	Fixed plate	1	
5	72002004261	QQA-14009	Switch housing	1	
6	22101600025	GB/T 70.1	Screw M6 x 12	2	
7	22101600149	GB/T 70.1	Screw M4 x 25	2	
8	8Q052000034	CQD15-8235200	Inner frame welding	1	
9	72001006770	QDA-05019	Stop block	4	
10	22101600035	GB70.1	Hexagonal cylindrical head screw M8X25	8	
11	73007000333	CQD15-1235100	Cylinder assembly	1	
12	22101600065	GB/T 70.1	Screw M12 x 40	1	
13	8Q052000035	CQD15-8235400	Sprocket seat welding	1	
14	22101600163	GB/T 70.1	Screw M20 x 40	1	

Table10

Fork rack system

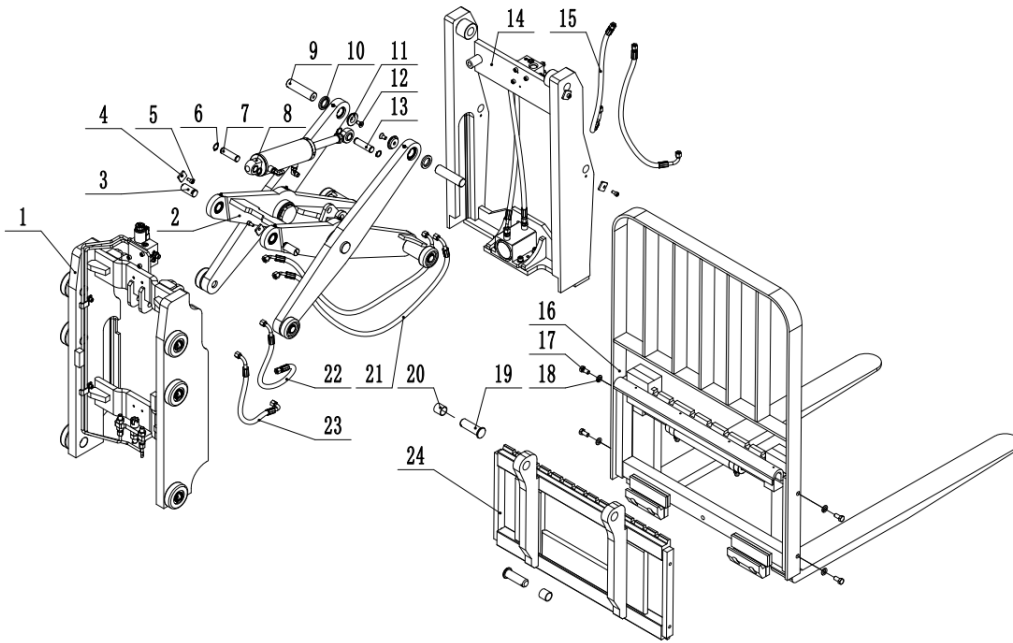


Figure11

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q054005001	CQD15-8311000	Fork arm retainer assembly	1	Figure13
2	8Q054005002	CQD15-8312000	Arm assembly	1	Figure14
3	72003001254	CQD15-8301004	pin	2	
4	72001007127	CQD15-8301005	Baffle plate	6	
5	22101600033	GB70.1	Hexagonal cylindrical head screw M8X16	2	
6	22600900003	GB894.1	Shaft retaining ring 16	2	
7	72003001258	CQD15-8301003	Double slot pin	1	
8	73007000318	CQD15-1200300	Move the cylinder forward	1	
9	72003001257	CQD15-8301009	Pin 30x115	2	
10	72001007128	CQD15-8301011	gasket	2	
11	72001007129	CQD15-8301012	gasket	2	
12	22101800011	GB70.3	Hexagonal countersunk head screw M10X20	2	
13	72003001253	CQD15-8301006	Double slot pin	1	
14	8Q054006001	CQD15-8313000	Fork front frame assembly	1	Figure15
15	73004000554	YG-10501-600	No. 1 tubing (Move left/move right)	3	

Table11-1

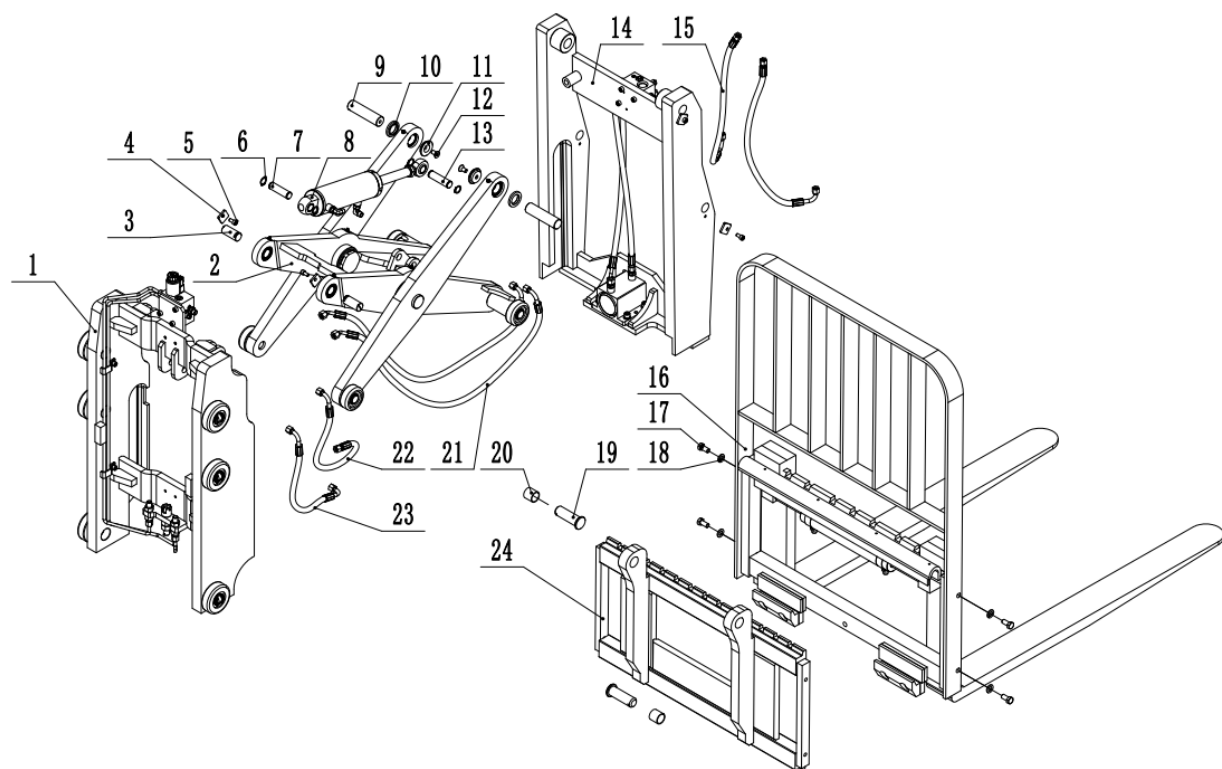


Figure11

Index	Part No.	Drawing Number	Part Name	QTY	Remark
16	8Q054007001	CQD15-8302000	Side fork	1	
17	22000400004	GB/T 5781	Bolt M12x25	4	
18	22500100008	GB/T 97.1	Flat washer 12	4	
19	72003001256	CQD15-8301010	pin	2	
20	40000000615	CQD15-8301502	Composite bushing 28x30	2	
21	72003001256	CQD15-8301010	pin	2	
22	73004000555	YG-10501-500	Tubing No. 1 (A3 forward)	1	
23	73004000574	YG-10507-450	Tubing No. 7 (B3 retracted)	1	
24	8Q052000027	CQD15-8301500	Fork rack	1	

Table11-2

Fork mount System - Fork arm mounting assembly

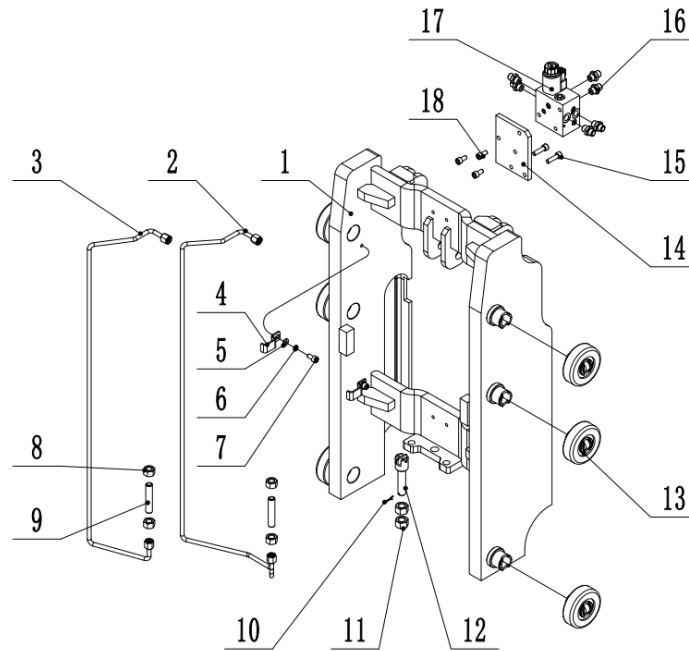


Figure12

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000020	CQD15-8301100	Fork arm retainer	1	
2	73003010065	CQD15-8700133	Hard tube for oil intake	1	
3	73003010066	CQD15-8700132	Return oil hard tube	1	
4	72002005305	CQD15-8301701	Tubing fixing clamp	2	
5	22500100006	GB97.1	Flat washer 8	2	
6	22501200004	GB93	Spring washer 8	2	
7	22101600033	GB70.1	Screw M8X16	2	
8	22400600005	GB6176	Nut M14x1.5	4	
9	7300600000086	CQD15-8700007	24° Taper connector M14 70	2	
10	22801600002	GB91	Cotter pin 2 x 16	1	
11	22400600003	GB6176	Nut M16 x 1.5	2	
12	72007000046	QQA-02507	Chain joint	1	
13	71004000024	QRS208300500	760407A composite roller	6	
14	72001007130	CQD15-8301113	Valve backing plate	1	
15	22101600036	GB70.1	Screw M8X30	2	
16	73006000106	1CH-14	splice	6	
17	73005000073	CQD15-1203003	Double balance valve group	1	
18	22101600033	GB70.1	Screw M8X16	3	

Table12-1

Fork mount System - fork arm assembly

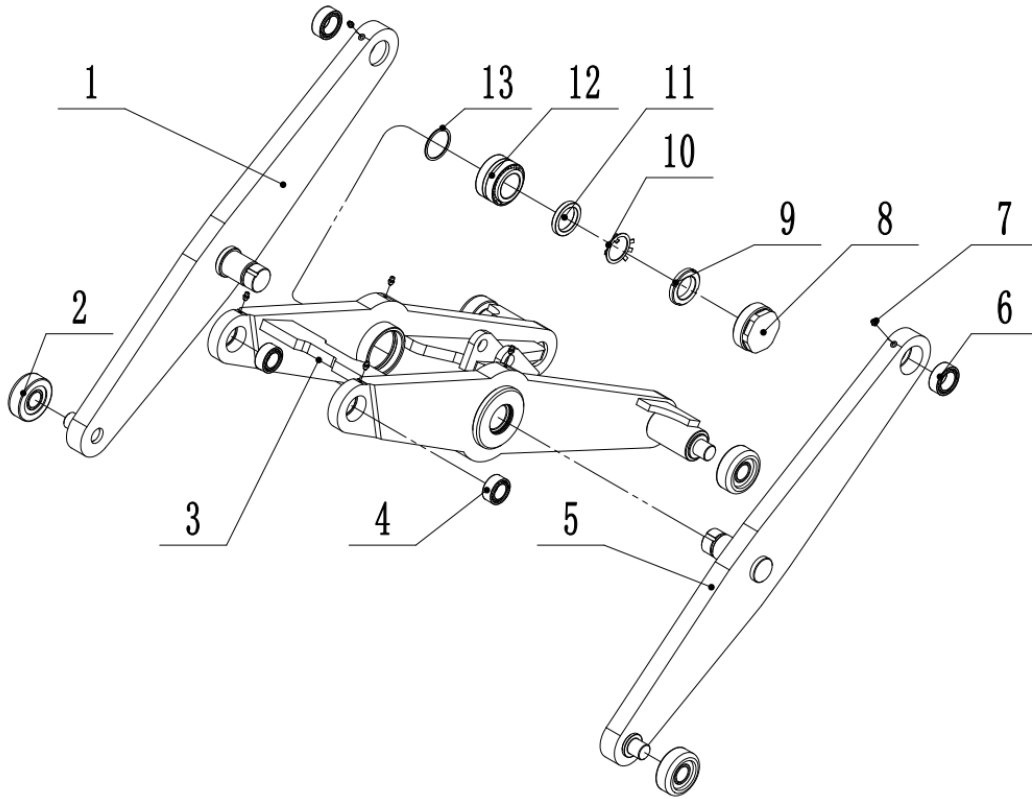


Figure13

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000022	CQD15-8301310	Left outer fork arm	1	
2	71004000007	QDA-05017-70.5	roller	4	
3	8Q052000021	CQD15-8301200	Inner fork arm	1	
4	23009900012	GB5801-2006-NA4905	bearings 25x42x17	2	
5	8Q052000023	CQD15-8301320	Right outer fork arm	1	
6	23009900013	GB5801-2006-NA4906	bearings 30x47x17	2	
7	23310200002	JB7940.1	oil cup M6	6	
8	72003001255	CQD15-8301002	Center axle cover	2	
9	22404100002	GB812	Round nut M39x1.5	2	
10	2250250000002	GB858	Stop washer for round nuts 39	2	
11	72004001411	CQD15-8301001	Spacer sleeve	2	
12	2300050000012	352008	bearing 40	2	
13	21000100099	GB3452.1-82	O-ring d47.5x2.65	2	

Table13

Fork rack System - Fork front rack assembly

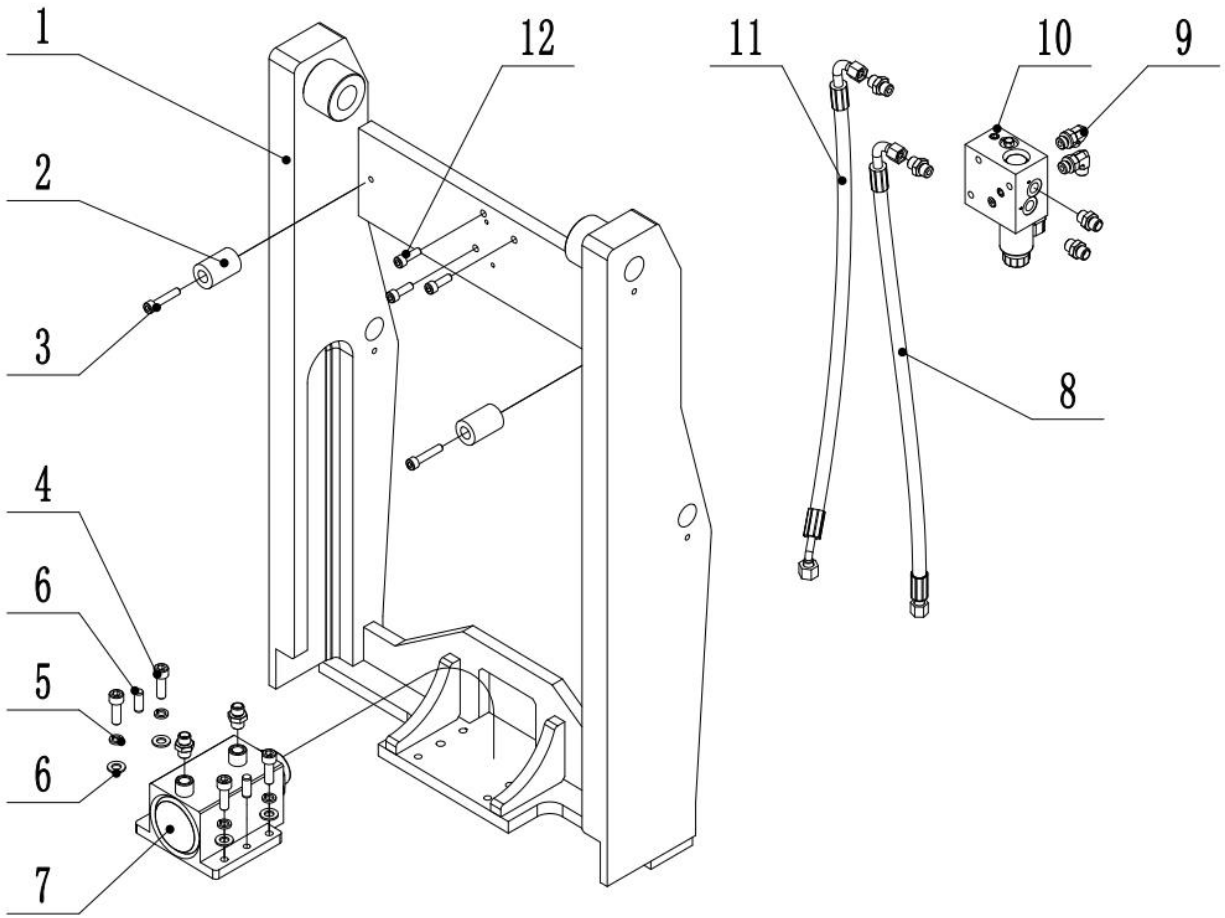


Figure14

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000024	CQD15-8301400	Fork head bracket	1	
2	72003001291	CQD15-8301703	Buffer block	2	
3	22101600038	GB70.1	Screw M8X40	2	
4	22101600115	GB70.1	Screw M10X30	4	
5	22500100007	GB97.1	Flat washer 10	4	
6	22501200005	GB93	Spring washer 10	4	
7	73007000316	CQD15-1200400	Tilt cylinder	1	
8	73004000554	YG-10501-600	Tubing No. 1 (backward tilt)	1	
9	73006000111	1CH9-14-14OG	splice	2	
10	73005000072	CQD15-1203002	Single balance valve group	1	
11	73004000575	YG-10508-800	No. 8 tubing (forward tilt)	1	
12	22101600035	GB/T 70.1	Screw M8 x 25	3	

Table14

Hydraulic system (three-stage frame)

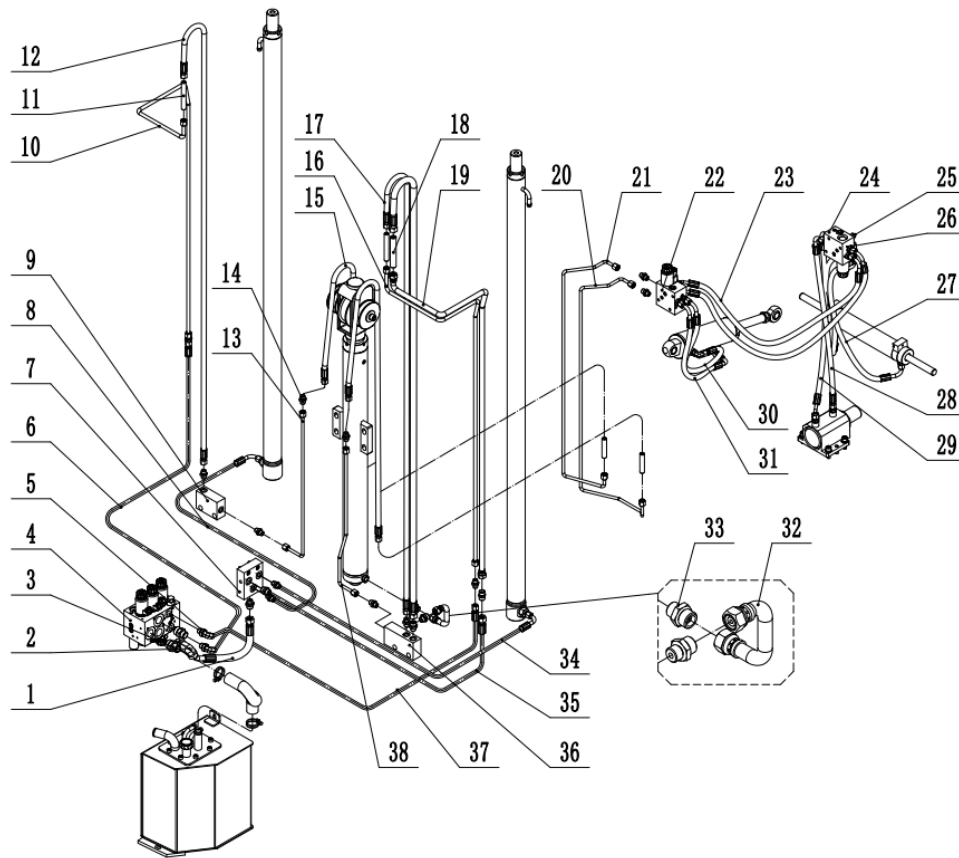


Figure15

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	73004000562	YG-10504-550	No. 4 Tubing (A tubing)	1	
2	73006000118	1CG9-22-12OGZF	splice	2	
3	73006000116	CQD15-1200605	Return pipe connection	1	
4	73005000080	CQD15-1203004	Multiway valve dual	1	
5	73006000120	1CG9-16-06OG	splice	2	
6	73004000569	YG-10506-2000	No. 6 tubing (4.5m main valve B1)	1	
7	73005000079	CQD15-1200009	Four way valve block	1	
8	73004000577	YG-10510-1700	No. 10 tubing (left cylinder tubing)	1	
9	73005000077	CQD15-8700120	Oil return transfer valve block	1	
10	73003010041	CQD15-8700101	Move back hard tube assembly	1	
11	73006000112	CQD15-8700008	24° Taper connector M14 100	2	
12	73004000450	YG-10201-1780	No. 1 tubing	2	
13	73003010045	CQD15-8700114	Move forward hard tube assembly	1	
14	73006000109	1C-14	Both ends 24° cone M14x1.5	4	
15	73004000533	YG-10201-1410	No. 1 tubing	2	

Table15-1

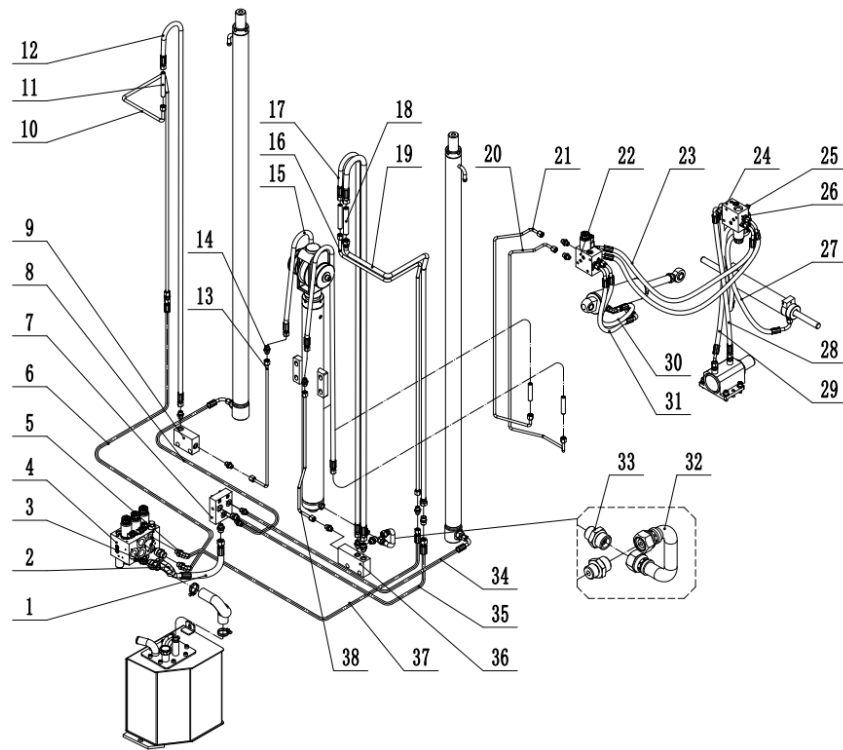


Figure15

Index	Part No.	Drawing Number	Part Name	QTY	Remark
16	73003010042	CQD15-8700106	Move forward hard tube assembly	1	
17	73004000537	YG-10202-1800	No. 2 oil pipe (outer middle frame 4.5m)	1	
18	720040000046 3	CQD15-8700009	24° Taper connector M18	1	
19	73003010043	CQD15-8700107	Medium cylinder hard tube assembly	1	
20	73003010065	CQD15-8700133	Hard tube for oil intake	1	
21	73003010066	CQD15-8700132	Return oil hard tube	1	
22	73005000073	CQD15-1203003	Double balance valve group	1	
23	73004000561	YG-10503-1100	No. 3 Tubing (A4A/B4B)	2	
24	73005000072	CQD15-1203002	Single balance valve group	1	
25	73006000111	1CH9-14-14OG	90° bent metric external thread fitting	2	
26	73006000106	1CH-14	Metric external connection M14X1.5	18	
27	73004000554	YG-10501-600	No. 1 tubing (Shift left/right)	2	
28	73004000554	YG-10501-600	Tubing No. 1 (backward tilt)	1	
29	73004000575	YG-10508-620	No. 8 tubing (forward tilt)	1	
30	73004000554	YG-10501-600	Tubing No. 1 (A3 forward)	1	

Table15-2

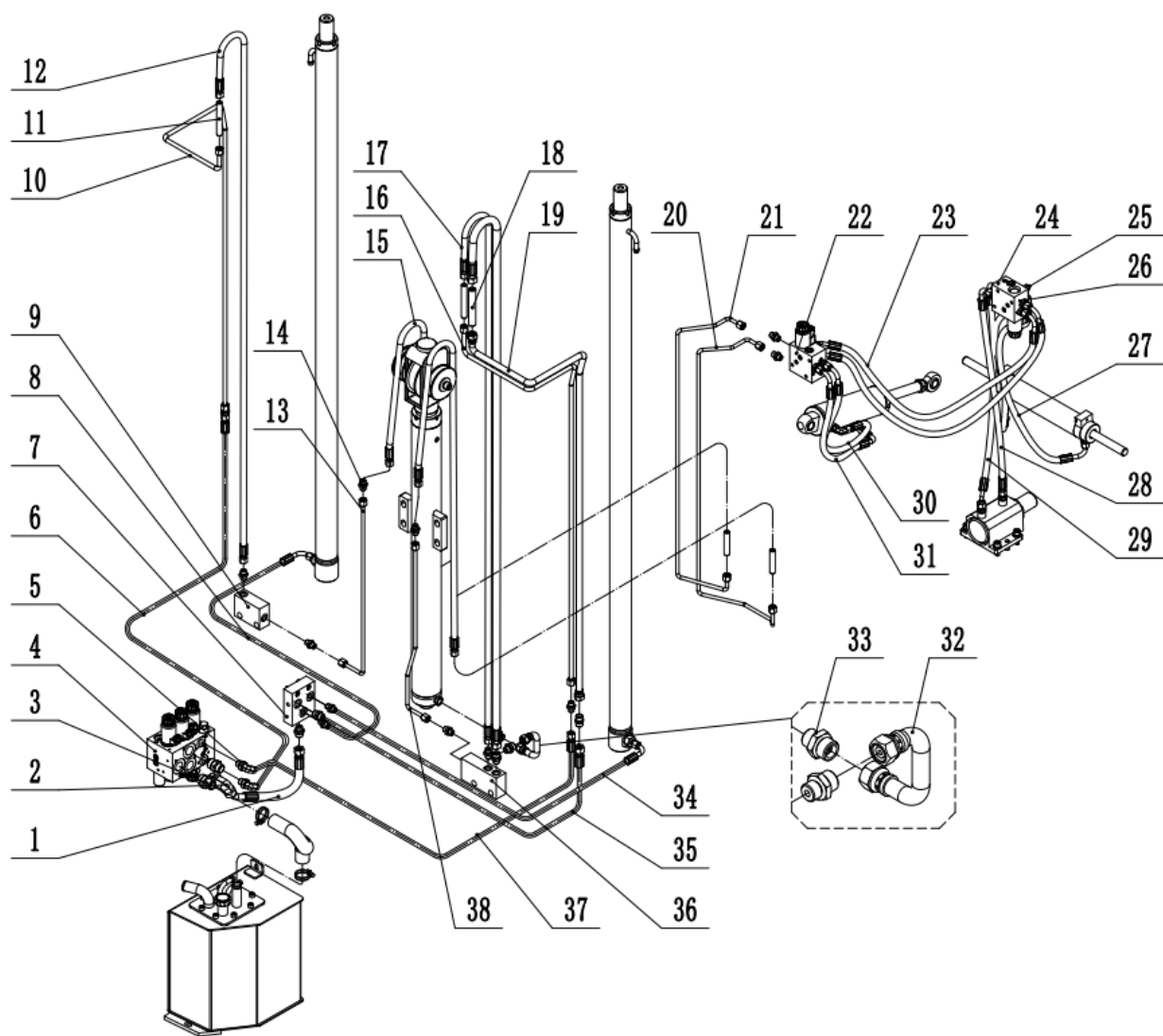


Figure15

Index	Part No.	Drawing Number	Part Name	QTY	Remark
31	73004000574	YG-10507-450	Tubing No. 7 (B3 retracted)	1	
32	73003010046	CQD15-8700116	Medium cylinder hard tube assembly	1	
33	73006000104	1CH-18-16	Joint with metric external thread	4	
34	73004000576	YG-10509-900	No. 9 tubing (right cylinder soft tubing)	1	
35	73004000556	YG-10502-1000	No. 2 tubing	1	
36	73005000076	CQD15-8700119	Two way transfer valve block	1	
37	73004000564	YG-10506-900	No. 6 tubing (4.5m main valve A1)	1	
38	73003010045	CQD15-8700114	Move forward hard tube assembly	1	

Table15-3

Hydraulic system (secondary gantry)

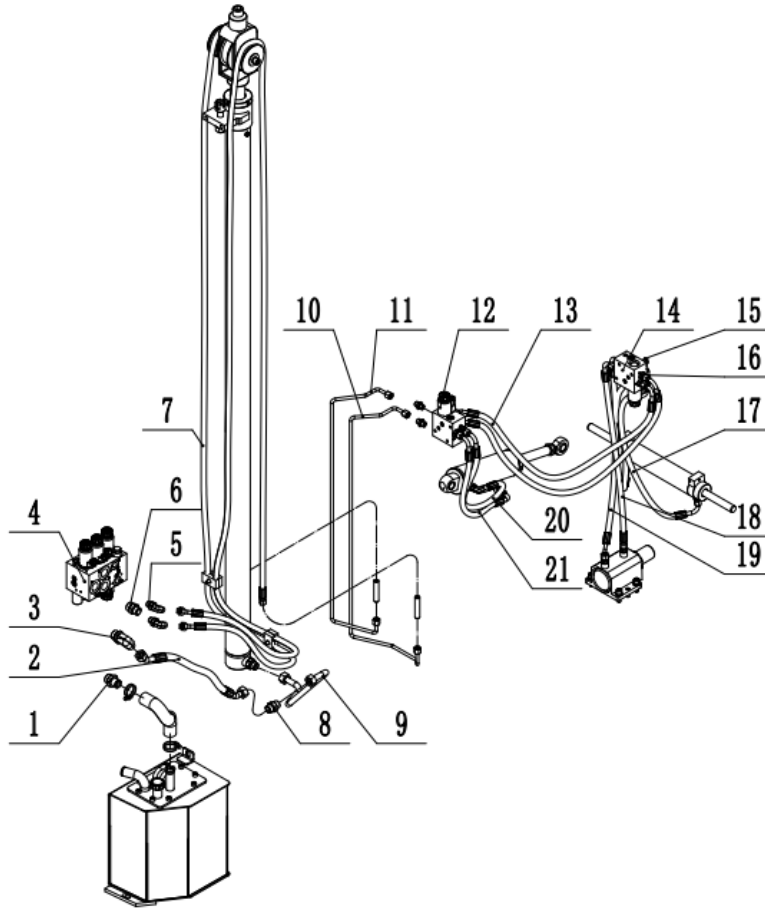


Figure16

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	73006000116	CQD15-1200605	Return pipe connection	1	
2	73004000579	YG-10512-550	No. 12 Tubing (A tubing)	1	
3	73006000118	1CG9-22-12OGZF	splice	1	
4	73005000080	CQD15-1203004	Multiway valve dual	1	
5	73006000120	1CG9-16-06OG	splice	2	
6	73006000119	1CG-22-12	splice	1	
7	73004000578	YG-10511-5000	No. 11 tubing (Main valve A1/B1)	2	
8	73006000121	1C-22	splice	1	
9	73003010067	CQD15-8700127	Medium cylinder hard tube assembly	1	
10	73003010065	CQD15-8700133	Hard tube for oil intake	1	
11	73003010066	CQD15-8700132	Return oil hard tube	1	

Table16-1

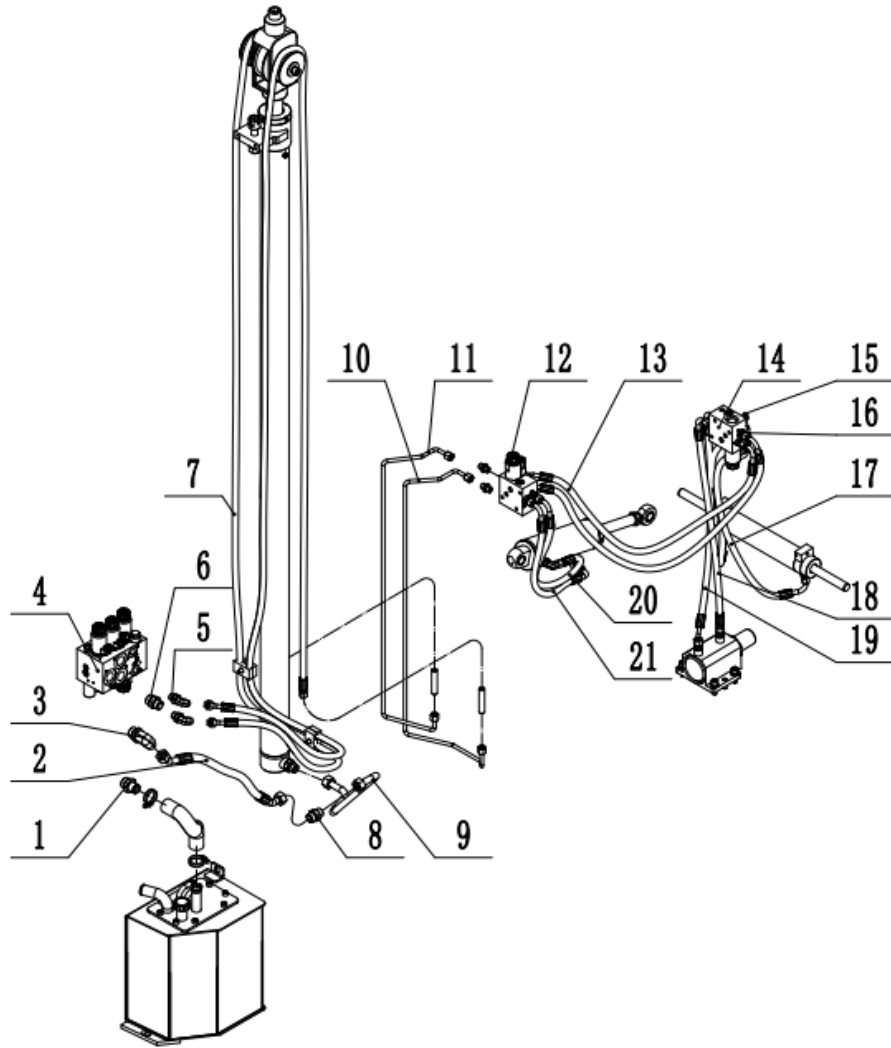


Figure16

Index	Part No.	Drawing Number	Part Name	QTY	Remark
12	73005000073	CQD15-1203003	Double balance valve group	1	
13	73004000561	YG-10503-1100	No. 3 Tubing (A4A/B4B)	2	
14	73005000072	CQD15-1203002	Single balance valve group	1	
15	73006000111	1CH9-14-14OG	90° bent metric external thread fitting	2	
16	73006000106	1CH-14	Metric external connection M14X1.5	14	
17	73004000554	YG-10501-600	No. 1 tubing (Shift left/right)	2	
18	73004000554	YG-10501-600	Tubing No. 1 (backward tilt)	1	
19	73004000575	YG-10508-620	No. 8 tubing (forward tilt)	1	
20	73004000554	YG-10501-600	Tubing No. 1 (A3 forward)	1	
21	73004000574	YG-10507-450	Tubing No. 7 (B3 retracted)	1	

Table16-2

Sprocket seat assembly

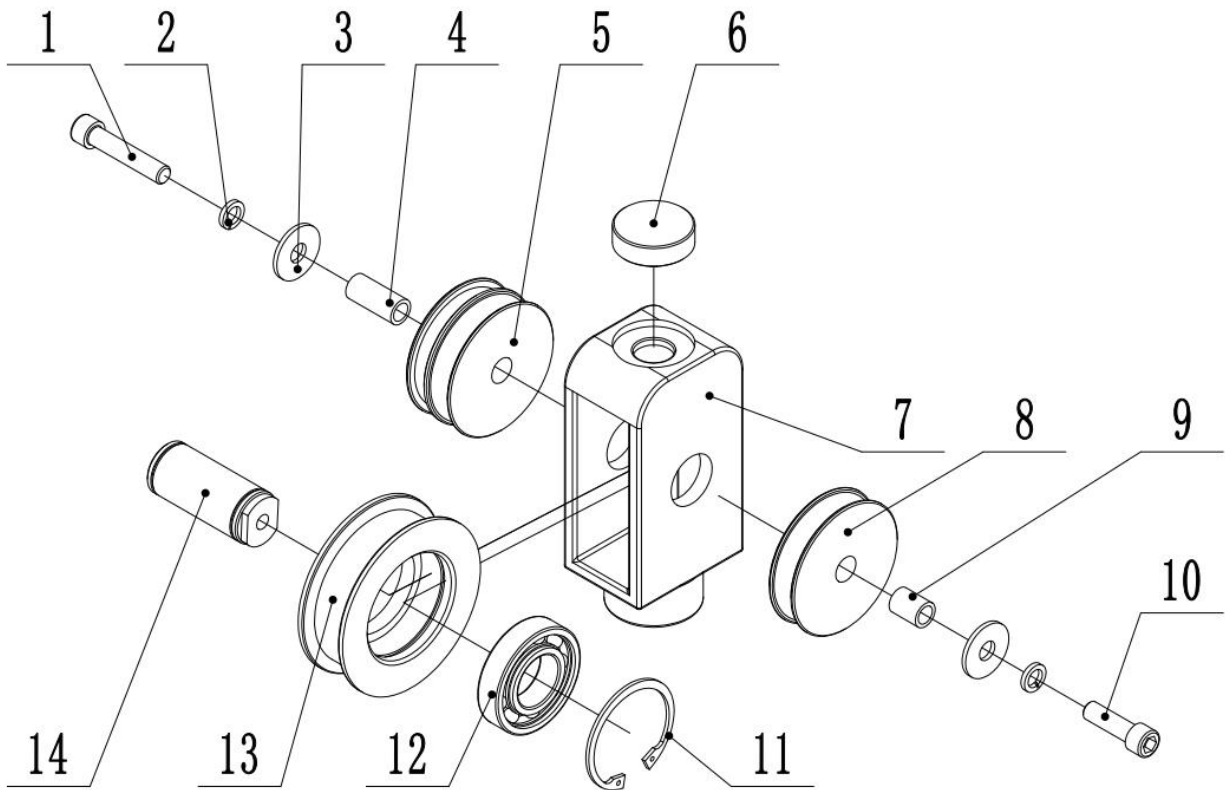


Figure17

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22101600067	GB70.1	Screw M12X60	1	
2	22501200006	GB93	Spring washer 12	2	
3	22500500002	GB96.1	Flat washer 12	2	
4	72003001260	CQD15-8300028	Tube wheel shaft sleeve	1	
5	30170000147	CQD15-8300025	Single tube nylon roller + wire	1	
6	75000100048	QQA-02511	Shock block one	1	
7	72006000066	QQA-02502	Sprocket seat	1	
8	30170000149	CQD15-8300024	Single tube nylon roller	1	
9	72003001263	CQD15-8300026	Tube wheel shaft sleeve	1	
10	22101600065	GB70.1	Screw M12X40	1	
11	22600800004	GB893.2	Retaining ring 70	1	
12	23000100005	GB276	Rolling bearing 6207	1	
13	71004100004	QQA-02503	Sprocket wheel	1	
14	72003001259	CQD15-8300016	Sprocket shaft	1	

Table17

Gantry System - Medium cylinder chain

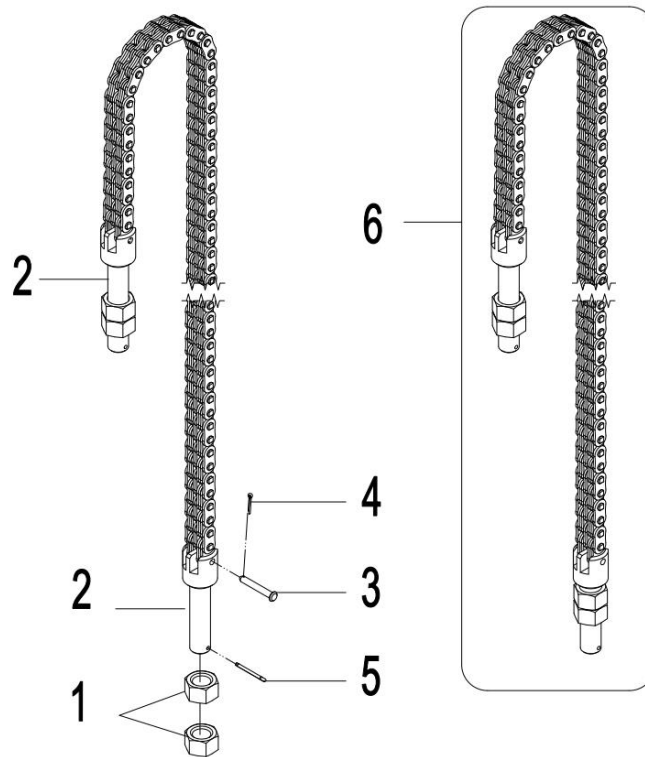


Figure18

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22400600003	GB6176	Hexagon nut M16 x 1.5	4	
2	72007000046	QQA-02507	Chain joint	2	
3	7200300000474	P168205003	T-chain pin	2	
4	22801600002	GB91	Cotter pin 2 x 16	2	
5	22801600003	GB91	Cotter pin 2.5×25	2	
6	8Q014009003	QQA-02508-4 0	Medium cylinder chain assembly 40 knots	1	4.5 m
	8Q014009021	QQA-02508-4 2	Medium cylinder chain assembly 42 knots	1	4.8
	8Q014009004	QQA-02508-4 4	Medium cylinder chain assembly 44 knots	1	5 m
	8Q014009005	QQA-02508-4 7	Medium cylinder chain assembly 47 knots	1	5.5 m

Table18

Gantry system - Lifting chain

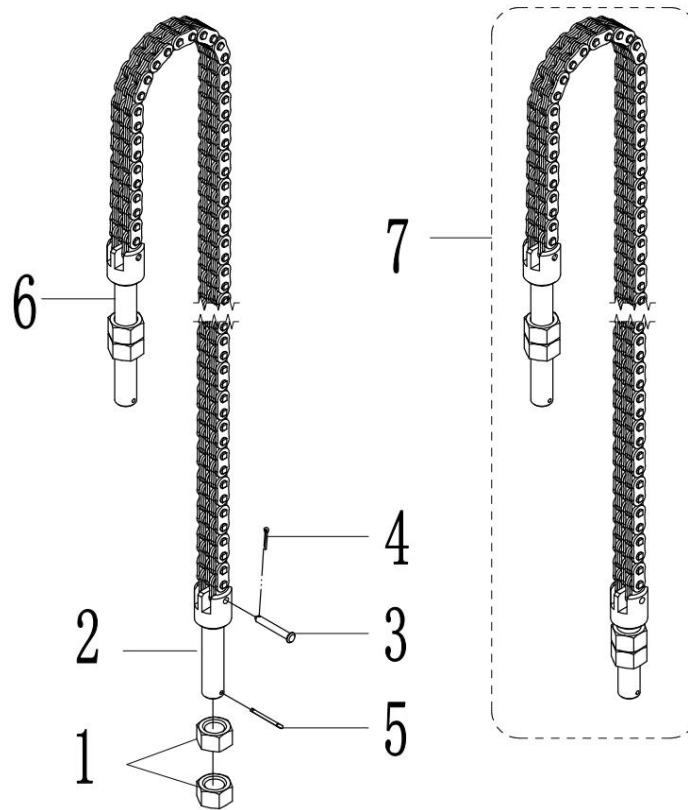


Figure19

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22400600003	GB6176	Hexagon nut M16 x 1.5	4	
2	72007000012	BDA-03039	Chain pull head one	1	
3	22801700002	GB882	Pin type B B5×35	2	
4	22801600007	GB91	Cotter pin 2×12	2	
5	22801600003	GB91	Cotter pin 2.5×25	2	
6	72007000012	BDA-03039	Chain pull head one	1	
7	8D03400600001	BDA-02000-74	Lifting chain assembly 74 knots	2	4.5 m
	8D03400600002	BDA-02000-78	Lifting chain assembly 78 knots	2	4.8 m
	8D03400600003	BDA-02000-81	Lifting chain assembly 81 knots	2	5 m
	8D03400600004	BDA-02000-87	Lifting chain assembly 87 knots	2	5.5 m
	8D03400600005	BDA-02000-88	Medium cylinder chain assembly 88 knots	1	3.5 m

Table19

Hydraulic system - Medium cylinder

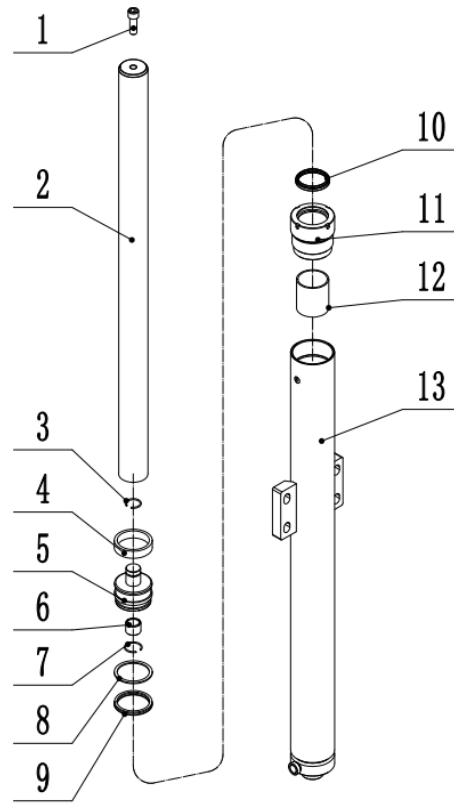


Figure20

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22101600064	GB70.1	Hexagonal cylindrical head screw M12×35	1	
2	72003001295	QDA15D8300920	Piston rod	1	
3	22601200012	GB/T 895.1	Retaining ring 25	1	
4	21000800017	QDA20D8300902	Guide ring 60x65x14.8	1	
5	72003001306	QDA20D8300930	piston	1	
6	75000100144	QDA15D8300840	Buffer sleeve	1	
7	22601200013	GB/T 895.1	Retaining ring 28	1	
8	21000800018	QDA20D8300901	Guide ring 60x65x2	1	
9	21000400023	UHS55	Seal ring 55x65x6	1	
10	21000400040	DHS50	Dust ring 50x58x5x6.5	1	
11	72003001307	QDA20D8300940	Cylinder cover	1	
12	23100100071	SF-1-5060	Composite bushing 50x55x60	1	
13	8D21200200029	QDA20D8300910	Oil cylinder	1	

Table20

Hydraulic system - Forward moving cylinder

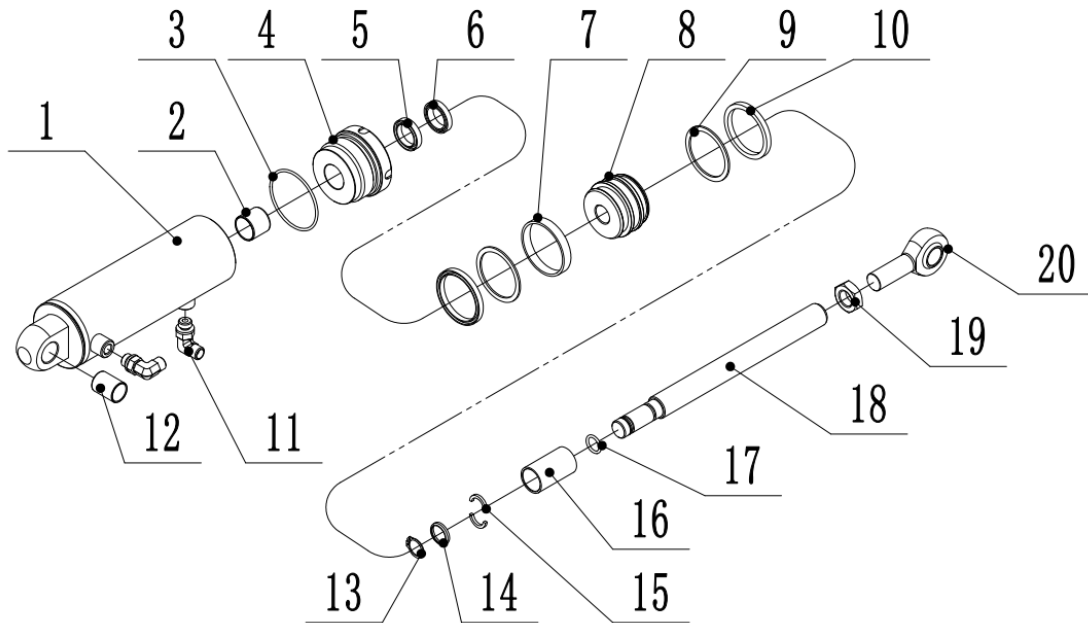


Figure21

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q052000036	CQD15-1200310A	Forward cylinder	1	
2	2310010000070	SF-1-2530	Composite bushing	1	
3	21000100103	GB1235-76	O-ring D70% $\times$ 3.1	1	
4	72004001425	CQD15-1200304A	Guide bush	1	
5	21000400039	UNS25	Seal ring 25 $\times$ 35 $\times$ 6.5	1	
6	2100030000020	DHS25	Dust ring 25 $\times$ 35 $\times$ 6.3 $\times$ 7	1	
7	21000800016	BST	Guide tape 10 $\times$ 2.5	1	
8	40000000161	CQD15-1200301A	piston	1	
9	72004001426	Φ 53 $\times$ Φ 63 $\times$ 2	Stop ring 53 $\times$ 63 $\times$ 2	2	
10	21000400002	UHS53-63-6	Sealing ring	2	
11	73006000111	1CH9-14-14OG	splice	2	
12	23100100062	SF-1-2030	Composite bushing	1	
13	22600900002	GB/T894.1-1986	Retaining ring 20	1	
14	72002000001	SBA-00064	Bowl pad	1	
15	72001000001	SBA-00065	Half ring	2	
16	72004001427	CQD15-1200302	Stop sleeve	1	
17	21000100104	GB1235-76	O-ring D20 $\times$ 2.5	1	
18	72003001308	CQD15-1200303A	Piston rod	1	
19	22400800001	GB6172.1	Hexagon thin nut M20% $\times$ 1.5	1	
20	2300170000003	SABJK20S	JK bearing	1	

Table21

Hydraulic system - Tilt cylinder

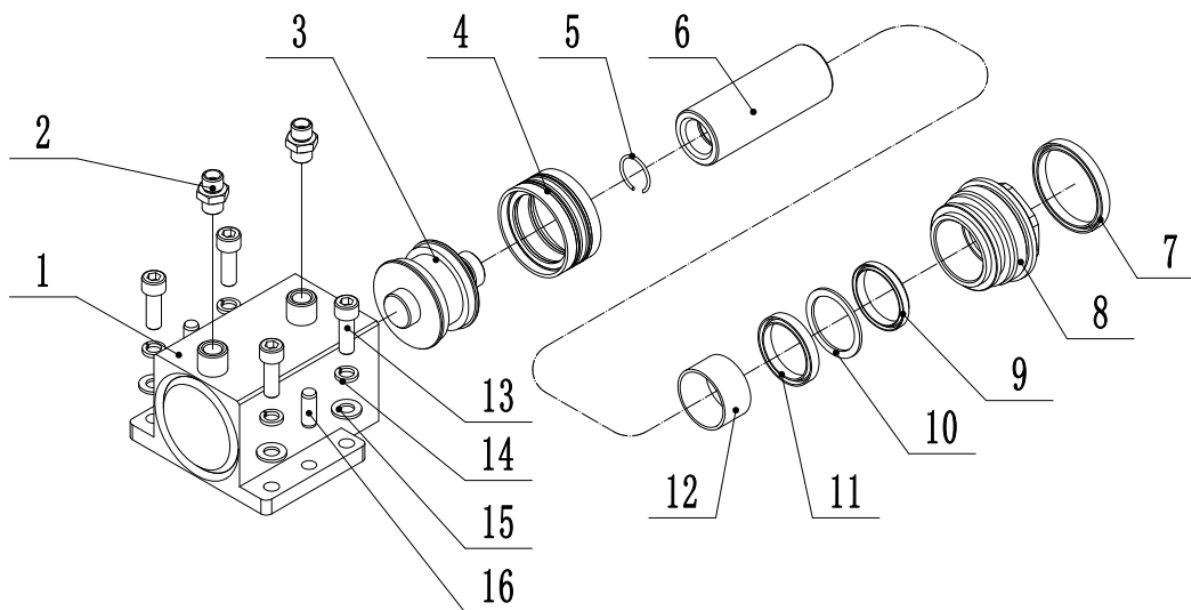


Figure22

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	72004001428	CQD15-1200410	Cylinder block	1	
2	73006000114	1CH-14	Metric external connection M14X1.5	2	
3	72003001309	CQD15-1200403	piston	1	
4	40000000633	KDAS65-50	Piston combination seal	1	
5	22601200012	GB895.1	Hole retaining ring 25	1	
6	72003001310	CQD15-1200401	Piston rod	1	
7	21000400023	UHS 55-65-6	Sealing ring	1	
8	72004001429	CQD15-1200402	Screw sleeve	1	
9	21000300019	DHS 40-48-4.5-6	Dust ring	1	
10	7500030000039		Support ring 50X40X2	1	
11	21000400003	UHS 40-50-6	Sealing ring	1	
12	23100100072	SF-1-4025	Composite bushing	1	
13	22101600095	GB70.1	Screw M10X30	4	
14	22500100007	GB97.1	Flat washer 10	4	
15	22501200005	GB93	Spring washer 10	4	
16	22800100009	GB119.1	Pin 10 x 26	2	

Table22

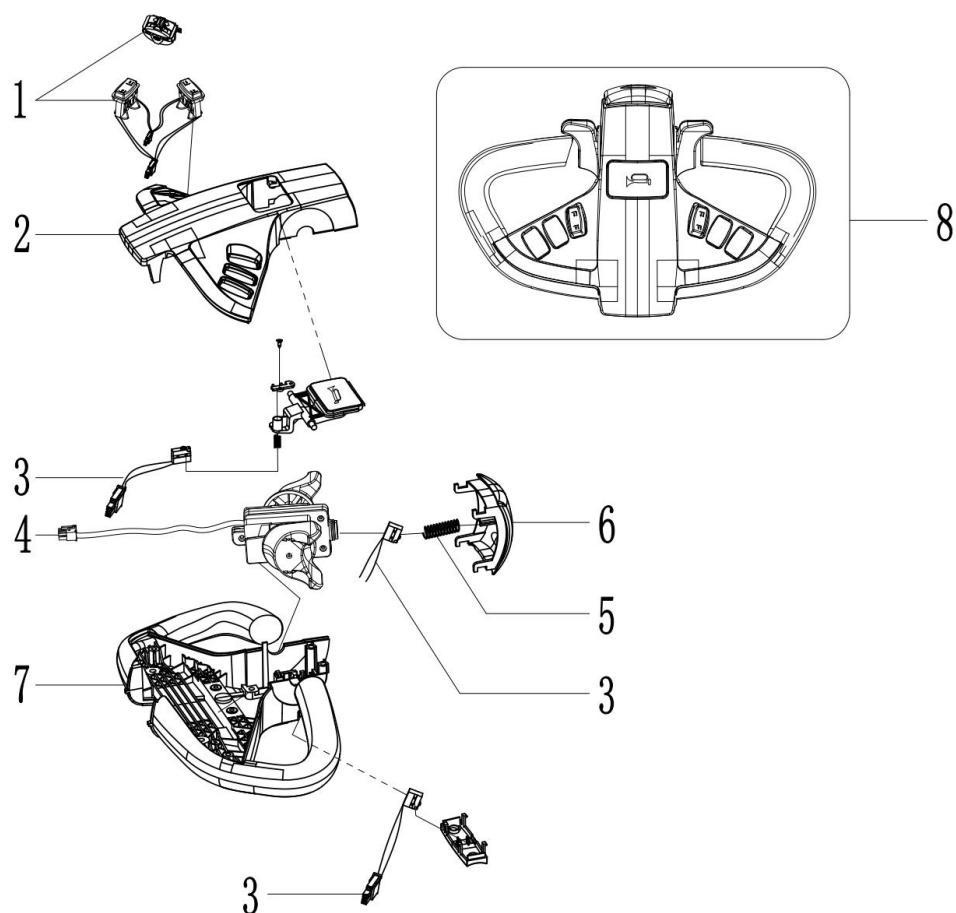


Figure23

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	11006000074	0502000063	Large handle tilt button	2	
	11006000084		Large handle side shift button	2	
	11006000075	QDJ-08056	Thumb switch	2	
2	40000000506	0502000032	Large handle with cover	1	
3	11006000062	1303000094	microswitch	3	
4	1100300000010		Accelerator assembly	1	
5	40000000507	1510000663	Compression spring	2	
6	11006000076	0502000031	Belly switch	1	
7	40000000508	0502000033	Large handle under cover	1	
8	11003000046	T617	handle (4 sets of switches)	1	

Table23

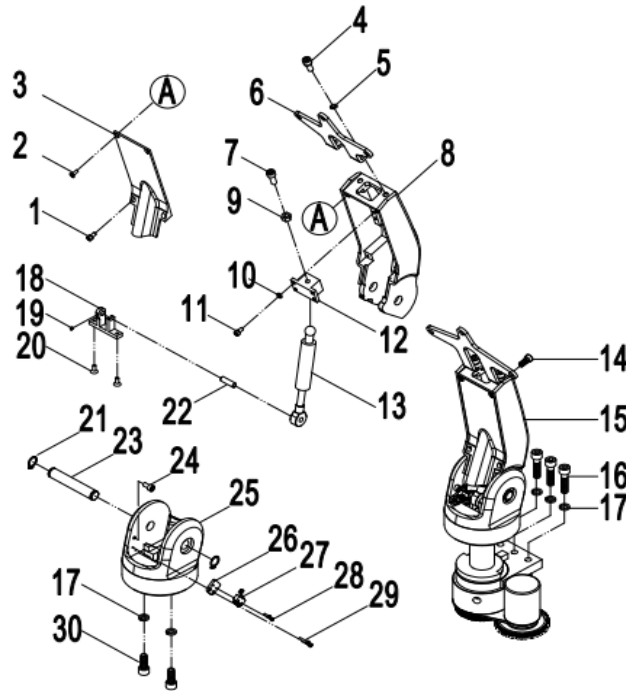


Figure24

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22101600011	GB70.1	Hexagonal cylindrical head screw M4x12	2	
2	22101800001	GB70.3	Hexagonal countersunk head screw M4x12	2	
3	8B21500000010	QBA30A0300006	Handle cover	1	
4	22101600032	GB70.1	Hexagonal cylindrical head screw M8×12	2	
5	22501200004	GB93	Spring washer 8	2	
6	8D085001001	QDA-01019A	Handle retaining plate	1	
7	22000400032	GB70.1	Screw M8×20	1	
8	8B21500000011	QBA30A0300004	handgrip	1	
9	22501200004	GB93	Spring washer 8	1	
10	22501200002	GB93	Spring washer 5	4	
11	22101600017	GB70.1	Screw M5×12	4	
12	8B21500000020	QBA30A0300003	Gas spring upper seat	1	
13	7200901000012	QBA30A0300002	Gas spring	1	
14	22101700007	GB70.2	Hexagon flat round head screw M8×12	3	
15	8D112017011	BOA-01000A	Steering system	1	

Table24-1

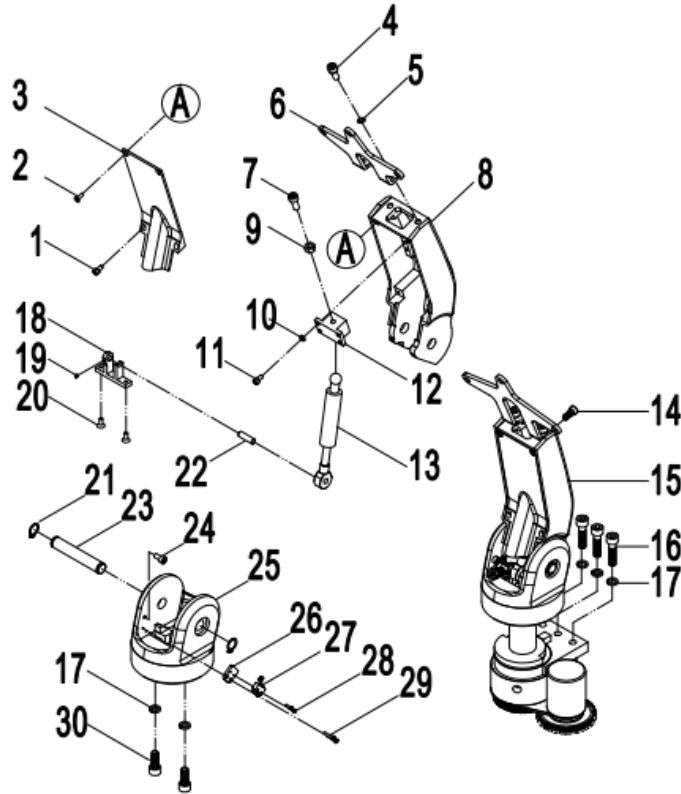


Figure24

Index	Part No.	Drawing Number	Part Name	QTY	Remark
16	22101600047	GB70.1	Screw M10 x 40	3	
17	22501200005	GB93	Spring washer 10	5	
18	8B21500000013	QBA30A0310000	Gas spring lower seat	1	
19	2210270000008	GB78	Inner hexagon cone end setting screw M4x5	1	
20	22101800022	GB70.3	Hexagonal countersunk head screw M5×12	2	
21	22600900003	GB894.1	Shaft retaining ring 16	2	
22	72003000000503	QBA30A0300007	pin	1	
23	72003000000502	QBA30A0300005	pin	1	
24	22101600025	GB70.1	Screw M6x12	1	
25	8B21500000012	QBA30A0300001	Handle holder	1	
26	72001004623	QBA30A0300009	Microswitch baseplate	1	
27	11006000021	QBA15-1340003	microswitch	1	
28	22101600006	GB70.1	Screw M3 x 16	2	
29	22101600001	GB70.1	Screw M2.5 x 10	2	
30	22101600045	GB70.1	Screw M10 x 25	2	

Table24-2

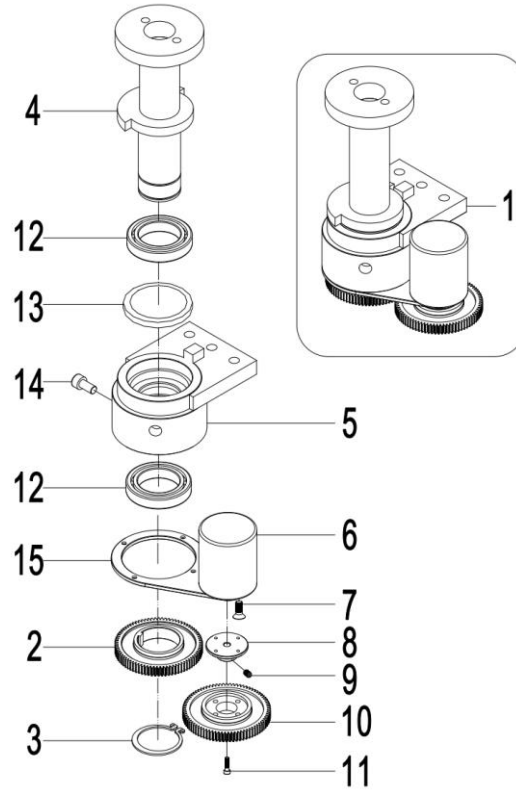


Figure25

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8D117005002	BOA-01100A	Electronic steering assembly	1	
2	71005000001	QDA-01042	Steering gear	1	
3	22600900005	GB894.1	Retaining ring d40	2	
4	8D112017002	BOA-01110A	Steering shaft welding	1	
5	8D112002001	BOA-01120	Steering seat weld	1	
6	11002000002	QDA-01060	Angle sensor	1	
7	22100200001	GB819.1	Screw M4x6	4	
8	72003000073	QDA-01038	Steering gear fixed shaft	1	
9	22102600001	GB77	Screw M5×6	1	
10	71005000002	QDA-01043	Steering passive gear	1	
11	22102600015	GB70.1	Screws M3 x 8	2	
12	23000100004	GB 276	Deep groove ball bearing 61908-Z	2	
13	21000800001	BOA-01114	Guide belt 10 x 2.5	1	
14	22101600025	GB70.1	Screw M6x12	3	
15	72001000165	QDA-01037	Steering gear retaining plate	1	

Table25

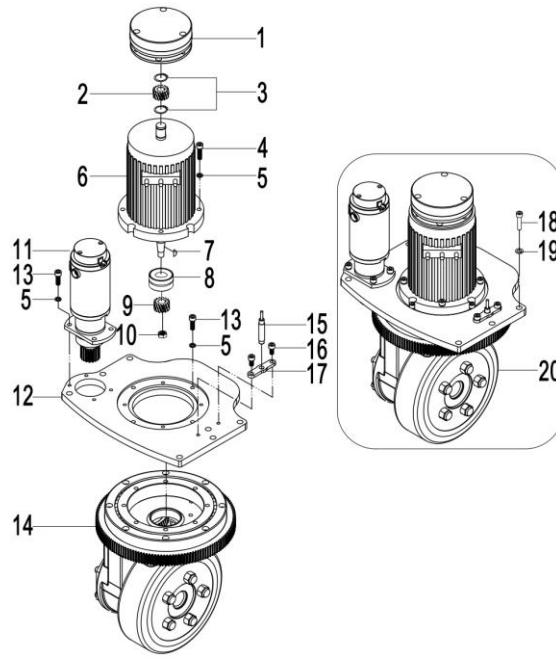


Figure26

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	71001200004	BOA-02010	Electromagnetic brake	1	
2	71005000013	BOA-02011	Brake gear	1	
3	22600900002	GB894.1	Retaining ring 20	2	
4	22101600036	GB70.1	Screw M8×30	4	
5	22501200004	GB93	Spring Cushion 8	12	
6	11008000008	QBA-02014C	Motor 1.5KW	1	
7	22900400001	GB1096.1	Semicircular key 4 x 6.5 x 16	1	
8	8B171005001	QBA25H-20010	Motor support base assembly	1	
9	71005000007	QBA-02036	Motor bevel gear	1	
10	22403300001	GB6183.1	Nut M12	1	
11	8D111002002	BOA-01200	Steering motor assembly	1	
12	72001000163	BOA-02001	Drive wheel mounting plate	1	
13	22101600035	GB70.1	Screw M8×25	8	
14	71001300004	QDJ-07100	Gear box assembly	1	
15	11006000019	QBA25H-1340001	Proximity switch LM12-3002NAY-LD	1	
16	22101600033	GB70.1	Screw M8×16	2	
17	7200100001658	BOA-02002	Mounting plate	1	
18	22101600065	GB70.1	Screw M12×40	4	
19	22501200006	GB93	Spring pad 12	6	
20	8J011009001	QDJ-07000	Drive system	1	

Table26

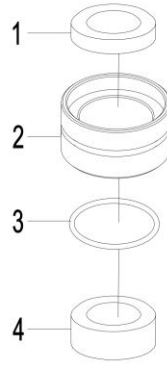


Figure27

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	21000500002		Skeleton oil seal $\Phi 25 \times \Phi 40 \times 7$	1	
2	72004000081	QBA-02030A	Motor support seat	1	
3	21001300003	GB1235	O-ring D56×3.5	1	
4	23000100001	GB276	Bearing 6204	1	

Table27

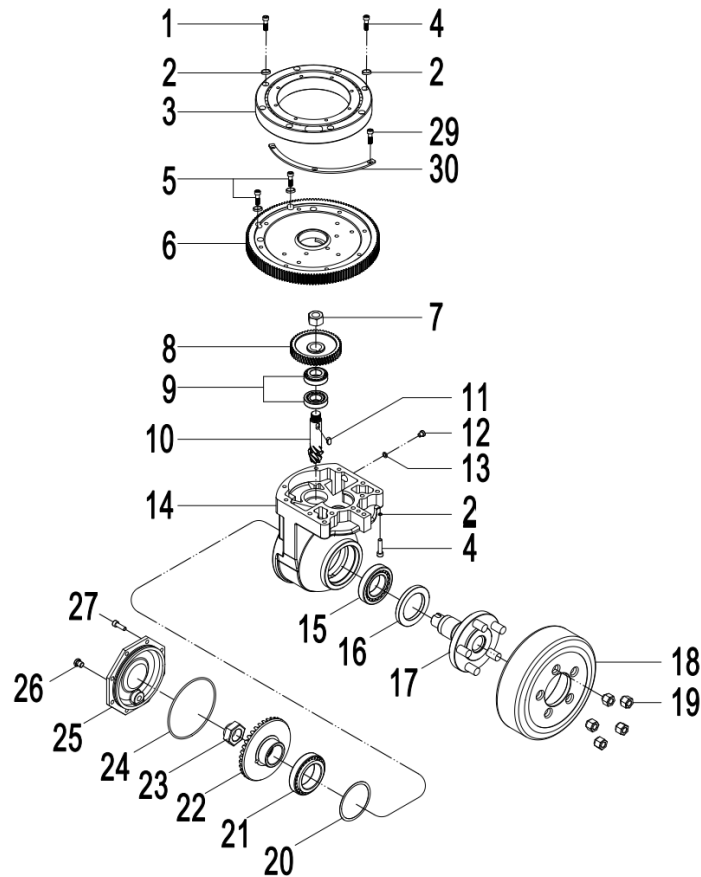


Figure28

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	22101600036	GB70.1	Screw M8×30	2	
2	22501200004	GB 93	Spring Cushion 8	19	
3	23009900002	QBA-02025	Turntable bearing	1	
4	22101600038	GB70.1	Screw M8×40	13	
5	22101600035	GB70.1	Screw M8×25	4	
6	71005000008	QBA-02209	Case cover big gear	1	
7	22400600004	GB6176	Nut M20 x 1.5	1	
8	71005000006	QBA-02205	Housing helical gear	1	
9	23000500003	GB297	Bearing 30205	2	
10	71005000005	QBA-02210	Spiral bevel gear (small)	1	
11	22900100002	GB1096	Flat key 8 x 7 x 14	1	
12	21001100003	JB982	Combined washer 16	1	
13	72007000018	QBA-02220	Oil discharge plug M16	1	
14	72006000055	QBA-02206	Gearbox housing	1	
15	23000500004	GB297	Bearing 30210	1	
16	21000500001	T-MF-035	UKS skeleton oil seal 65×95×10	1	
17	71005000004	QBA-02218	Big wheel spline shaft	1	
18	71003000041	QBA-02031	Driving wheel	1	
19	72008000003	QBA-02032	Big wheel lock nut	5	
20	72001000381	QBA-02044	gasket	1	
21	23000500002	GB297	Tapered roller bearing 32012×2	1	
22	71005000005	QBA-02211	Spiral bevel gear (large)	1	
23	72008000002	QBA-02219	nut	1	
24	21000100004	GB3452.1	O-ring d140×3.55	1	
25	72006000056	QBA-02037	Gearbox side cover	1	
26	72007000017	QBA-02009	Oil discharge plug M12 (with combination pad)	1	DIN3869 Gasket 12
27	22101600034	GB70.1	Screw M8×20	8	
28	22101800022	GB70.3	Hexagonal countersunk head screw M5×12	3	
29	72001000659	QDJ-07002	Sensor bar	1	
30	71001300004	QDJ-07100	Gear box assembly	1	

Table28

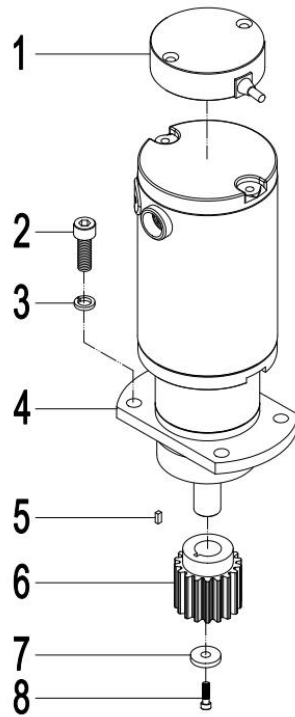


Figure29

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	11002000005		Tachometer sensor	1	
2	22101600035	GB70.1	Screw M8×25	4	
3	22501200004	GB93	Spring Cushion 8	4	
4	11008000023	QDJV4-1351000	Steering motor Z90DP24165-36S	1	
5	22900100005	GB1096	Key 5 x 30	1	
6	71005000012	BOA-01206	Steering pinion	1	
7	22500500003	GB96.1	Large washer 6	1	
8	22101600025	GB70.1	Screw M6x12	1	

Table29

Electrical system

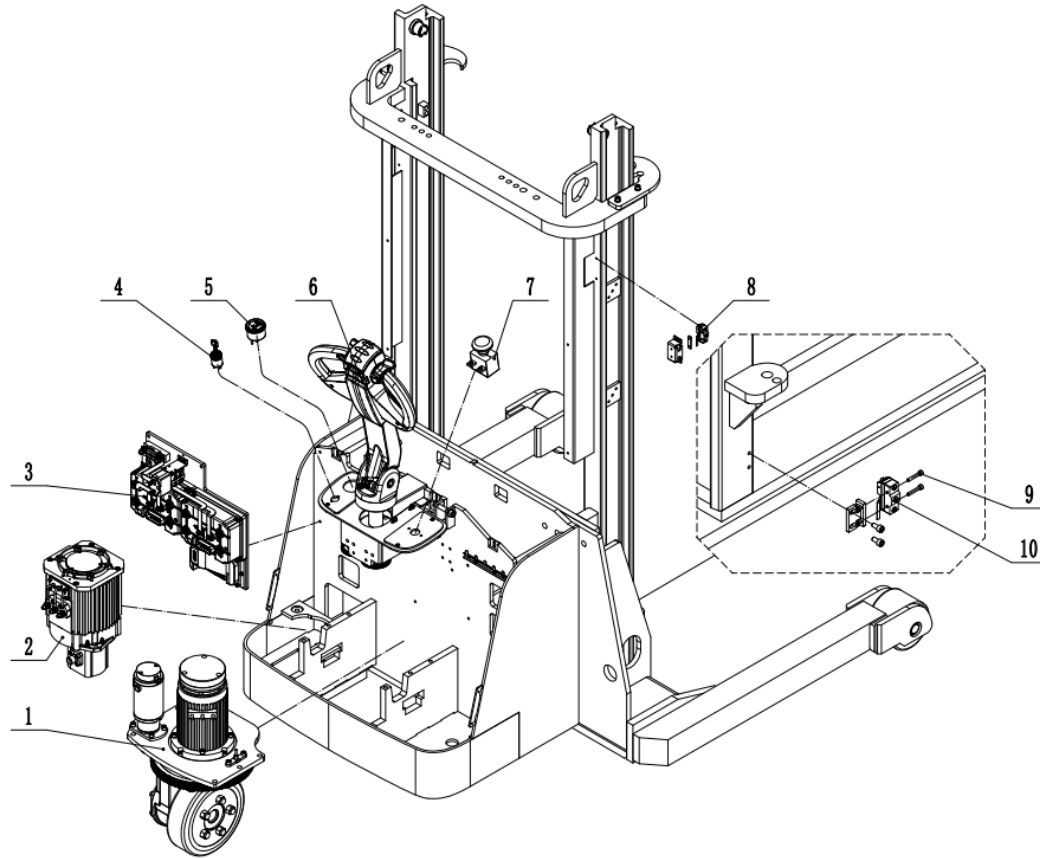


Figure30

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1			Drive assembly	1	Figure26
2	11008000050	CQD15-1200100	Pump motor assembly	1	
2.1	11008000049		Oil pump motor 4KW	1	
3	11007000064	CQD15-1310000	Electric control assembly	1	
4	11006000002	P251340004	Key switch	1	
5	11005000025	CQD15-1350001	appearance	1	
6	11003000010	QQA-1350400	Controller handle	1	
7	11006000020	QDA12E-1340001	Scram switch	1	
8	11006000021	QBA15-1340003	microswitch	1	
9	22101600014	GB/T 70.1	Screw M4 x 25	2	
10	1100600000042	QDA15-1340001	microswitch	1	

Table30

Electric control assembly

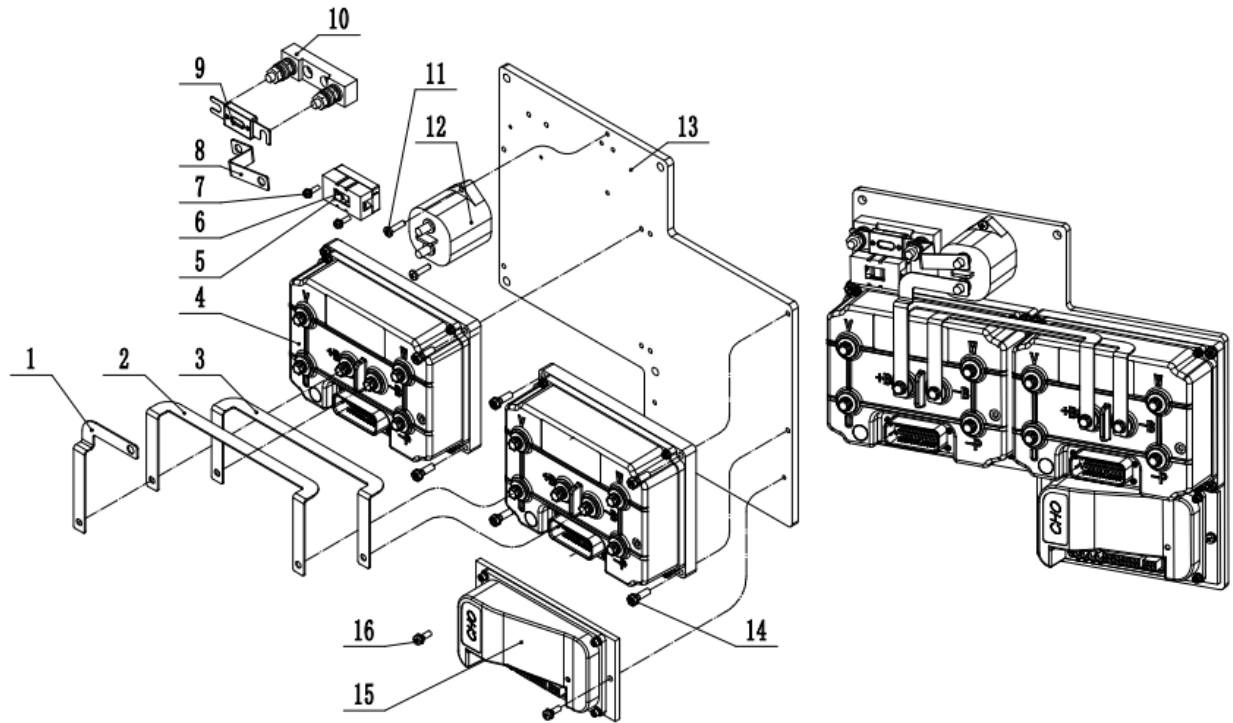


Figure31

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	75000600003	CQD15-1370002	Copper bar 2B+	1	
2	75000600005	CQD15-1370004	Copper bar 3B+	1	
3	75000600006	CQD15-1370003	Copper bar B-	1	
4	11007000065	CQD15-1310001	Ac controller	2	
5	15000900004		Small fork fuse box	1	
6	15000900017	QBA25H-1350001	Small fork type fuse	1	
7	40000000631	GB/T 9074.8-1988	Screw M4X16	2	
8	75000600004	CQD15-1370001	Copper bar 1B+	1	
9	15000900025	QBA15-1350006	Fork bolt fuse 250A	1	
10	15000900012	QBA15-1350007	Large fork pin type fuse holder	1	
11		GB/T 818-2000	screws -H type M5x20	2	
12	11000400018	CQD15-1310002	Dc contactor	1	
13	75000200028	CQD15-1380001	Electronic control aluminum plate	2	
14	40000000632	GB/T 9074.12-1988	Bolt M6X20	8	

Table31

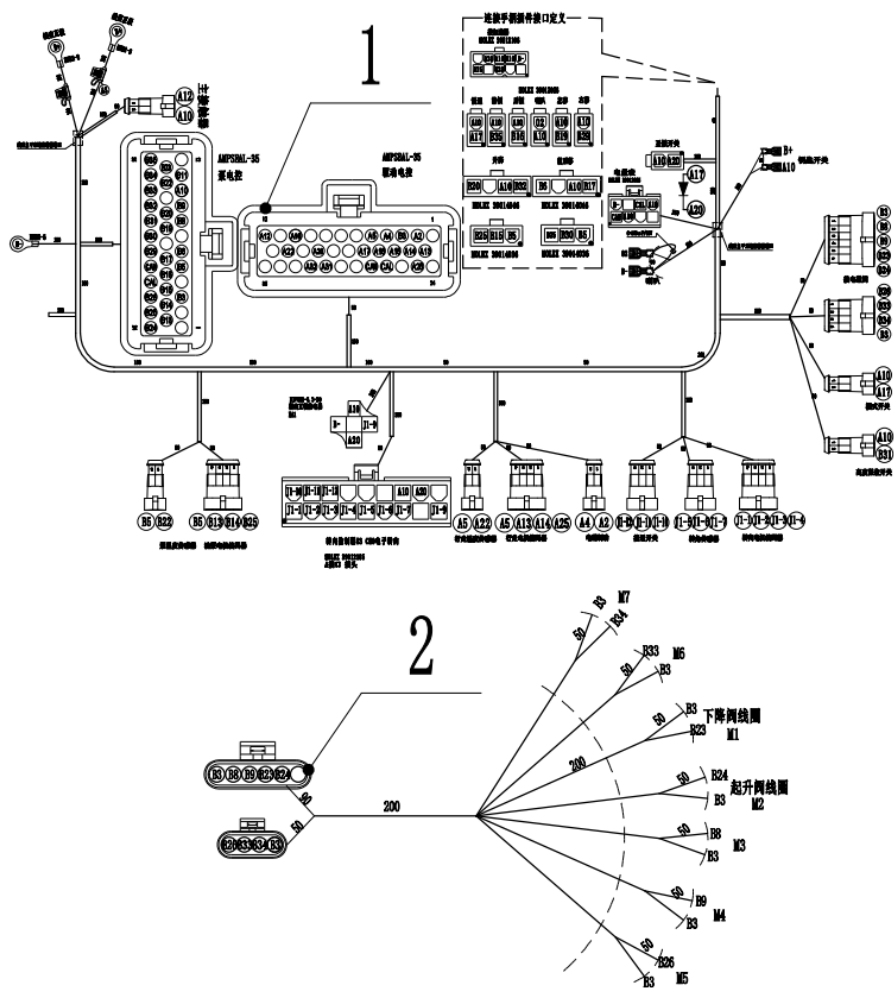


Figure32

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	1200000000212	CQD15-1321000	Car body harness (lithium)	1	
	120000000351	CQD15-1321001	Harness of car body (lead acid)	1	
2	120000000352	CQD15-1321002	Solenoid valve harness	1	

Table32

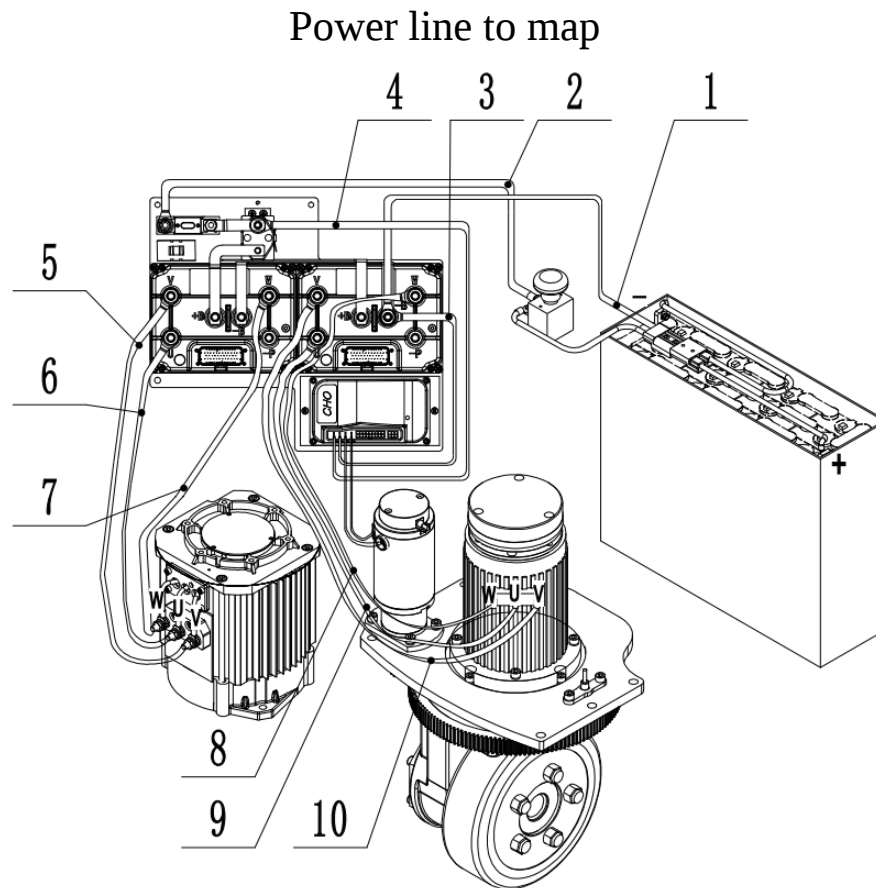


Figure33

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	12000000327	CQD15-1332000	Power connector	1	
1.1	12000000341	CQD15-1332001	Power connector	1	Lithium
2	12000000342	CQD15-1331001	Scram switch -- fuse	1	
3	12000000344	CQD15-1331002	B- B- - Turn to B-	1	
4	12000000343	CQD15-1331003	30A Insurance - Switch to B+	1	
5	12000000346	CQD15-1331005	Pump controller V-- pump motor V	1	
6	12000000345	CQD15-1331004	Pump controller U-- pump motor U	1	
7	12000000347	CQD15-1331006	Pump controller W-- pump motor W	1	
8	12000000350	CQD15-1331009	Traction control W- Drive motor W	1	
9	12000000348	CQD15-1331007	Traction control U- Drive motor U	1	
10	12000000349	CQD15-1331008	Traction control V- Drive motor V	1	

Table33

List of wearing parts

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	21001100011	JB982-77	Combined seal gasket 27	1	Figure3
2	2300010000048	GB/T 276	Deep groove ball bearing 6206	4	Figure5
3	23009900012	GB5801-2006-NA4 905	Complete set of needle roller bearings 25x42x17	2	Figure12
4	23009900013	GB5801-2006-NA4 906	Complete set of needle roller bearings 30x47x17	2	Figure12
5	2300050000012	352008	Double row tapered roller bearing 40	2	Figure12
6	21000100099	GB3452.1-82	O-ring d47.5x2.65	2	Figure12
7	23000100005	GB276	Rolling bearing 6207	1	Figure15
8	21000300007	DH35	Dust ring	2	Figure20
9	22601200012	GB/T 895.1	Retaining ring 25	1	Figure20
10	22601200013	GB/T 895.1	Retaining ring 28	1	Figure20
11	21000400023	UHS55	Seal ring 55x65x6	1	Figure20
12	21000400040	DHS50	Dust ring 50x58x5x6.5	1	Figure20
13	2310010000070	SF-1-2530	Composite bushing	1	Figure21
14	21000100103	GB1235-76	O-ring D70x3.1	1	Figure21
15	21000400039	UNS25	Seal ring 25x35x6.5	1	Figure21
16	2100030000020	DHS25	Dust ring 25x35x6.3x7	1	Figure21
17	72004001426		Stop ring 53x63x2	2	Figure21
18	21000400002	UHS53-63-6	Sealing ring	2	Figure21
19	23100100062	SF-1-2030	Composite bushing	1	Figure21
20	21000100104	GB1235-76	O-ring D20x2.5	1	Figure21
21	40000000633	KDAS65-50	Piston combination seal	1	Figure22
22	22601200012	GB895.1	Hole with wire ring 25	1	Figure22
23	21000400023	UHS 55-65-6	Sealing ring	1	Figure22
24	21000300019	DHS 40-48-4.5-6	Dust ring	1	Figure22
25	21000400003	UHS 40-50-6	Sealing ring	1	Figure22
26	23100100072	SF-1-4025	Composite bushing	1	Figure22
27	11006000062	1303000094	microswitch	3	Figure24
28	7200901000012	QBA30A0300002	Gas spring	1	Figure24
29	11006000021	QBA15-1340003	microswitch	1	Figure24
30	23000100004	GB 276	bearing 61908-Z	2	Figure25
31	21000500002		Skeleton oil seal $\Phi 25 \times \Phi 40 \times 7$	1	Figure27
32	21001300003	GB1235	O-ring D56x3.5	1	Figure27
33	23000100001	GB276	Bearing 6204	1	Figure27

Consumable Parts

Index	Part No.	Drawing Number	Part Name	QTY	Remark
34	23000500004	GB297	Bearing 30210	1	Figure28
35	21000500001	T-MF-035	UKS skeleton oil seal 65×95×10	1	Figure28
36	21000100004	GB3452.1	O-ring d140×3.55	1	Figure28
37	11006000021	QBA15-1340003	microswitch	1	Figure30
38	110060000004 2	QDA15-1340001	microswitch	1	Figure30
39	15000900004		Small fork fuse box	1	Figure31
40	15000900017	QBA25H-1350001	Small fork type fuse	1	Figure31
41	15000900025	QBA15-1350006	Fork bolt fuse 250A	1	Figure31
42	15000900012	QBA15-1350007	fuse holder	1	Figure31

Repair kit

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	21000300007	DH35	Dust ring	2	Left and right side cylinders
	21000100082	GB/T 3452.1	O-ring 45x2.65	2	
	40000000634	D2 35x45x6	Shaft seal	2	
	40000000635	Φ35xΦ45x3	retainer	2	
	40000000636	OSI 45x35x6	Hole seal	2	
2	22601200012	GB/T 895.1	Retaining ring 25	1	Middle cylinder
	22601200013	GB/T 895.1	Retaining ring 28	1	
	21000400023	UHS55	Seal ring 55x65x6	1	
	21000400040	DHS50	Dust ring 50x58x5x6.5	1	
3	2310010000070	SF-1-2530	Composite bushing	1	forward cylinder
	21000100103	GB1235-76	O-ring D70x3.1	1	
	21000400039	UNS25	Seal ring 25x35x6.5	1	
	2100030000020	DHS25	Dust ring 25x35x6.3x7	1	
	72004001426	Φ53xΦ63x2	Stop ring 53x63x2	2	
	21000400002	UHS53-63-6	Sealing ring	2	
	23100100062	SF-1-2030	Composite bushing	1	
	21000100104	GB1235-76	O-ring D20x2.5	1	
4	40000000633	KDAS65-50	Piston combination seal	1	Tilt cylinder
	22601200012	GB895.1	Hole retaining ring 25	1	
	21000400023	UHS 55-65-6	Sealing ring	1	
	21000300019	DHS 40-48-4.5-6	Dust ring	1	
	21000400003	UHS 40-50-6	Sealing ring	1	
	23100100072	SF-1-4025	Composite bushing	1	