

Parts Manual
Lithium Reach Stacker
G33R-177LI/189LI/216LI



Instructions for use

Please read this manual carefully and operate the vehicle safely.

- Do not operate this vehicle without training.
- Please comply with ISO3691 “Safety Specification for Motor Vehicles Industry”.
- Please do not modify or change the repair parameters, including adjusting the pressure. Any loss or damage to the vehicle resulting from such actions will be your responsibility, and doing so will void our warranty commitment.

SPECIAL WARNING:

The company is committed to innovation and sustainable development. As part of this commitment, we continually improve the technology of our products. Therefore, we reserve the right to make changes and improvements to any product described in this specification without prior notice.

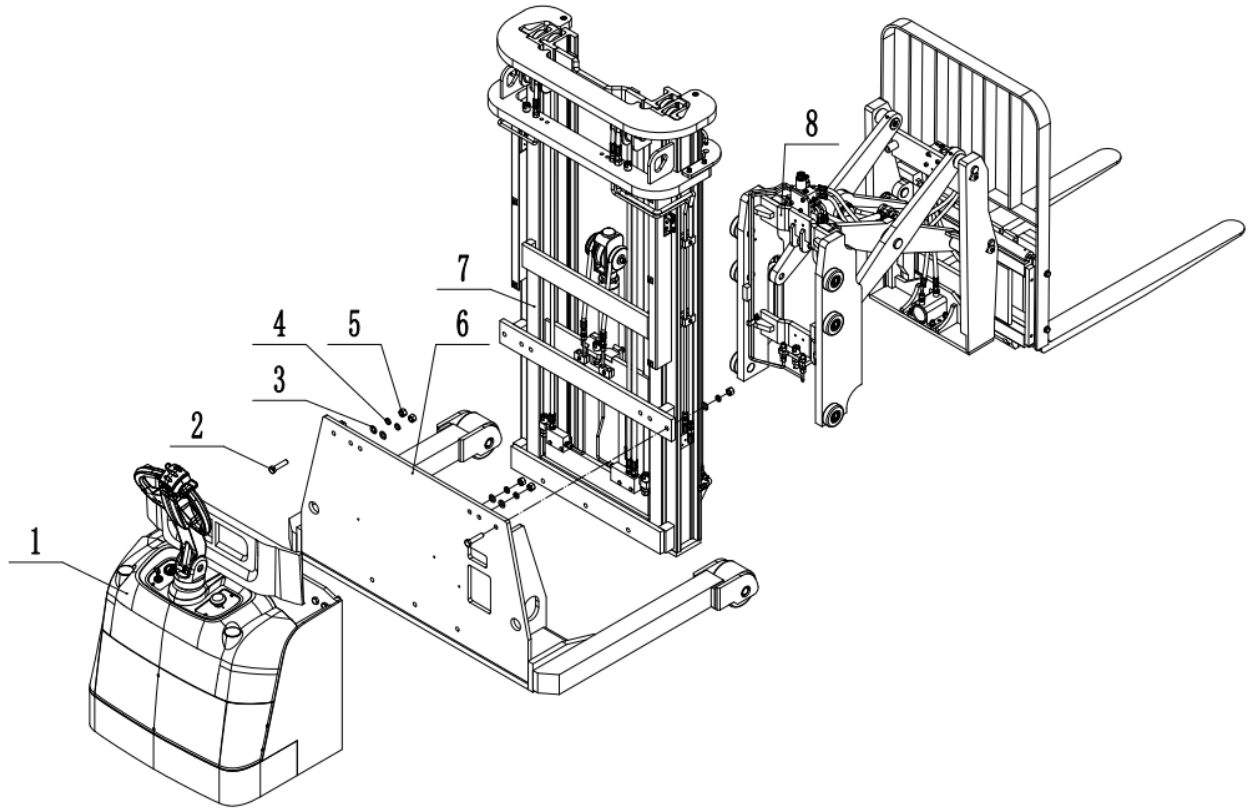


Figure1

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	8Q05100700001	CQD15-0411000	Rear frame system	1	
2	22000300019	GB5782	Bolt M16x70	9	Lv 12.9
3	2250010000014	GB97.1	Plain washer 16	9	
4	22501200008	GB93	Spring washer 16	9	
5	22400500006	GB6175	Nut M16	9	Lv.10
6	8Q054001001	CQD15-0412000	Straddle assy	1	
7	8Q05100200001	CQD15-8345000	4.5m three-stage gantry system	1	
	8Q05100200002	CQD15-8350000	5 m three-stage gantry system	1	
	8Q05100200003	CQD15-8355000	5.5 m three-stage gantry system	1	
8	8Q05100400001	CQD15-8301000	Fork rack system	1	

Table1

Rear frame assembly

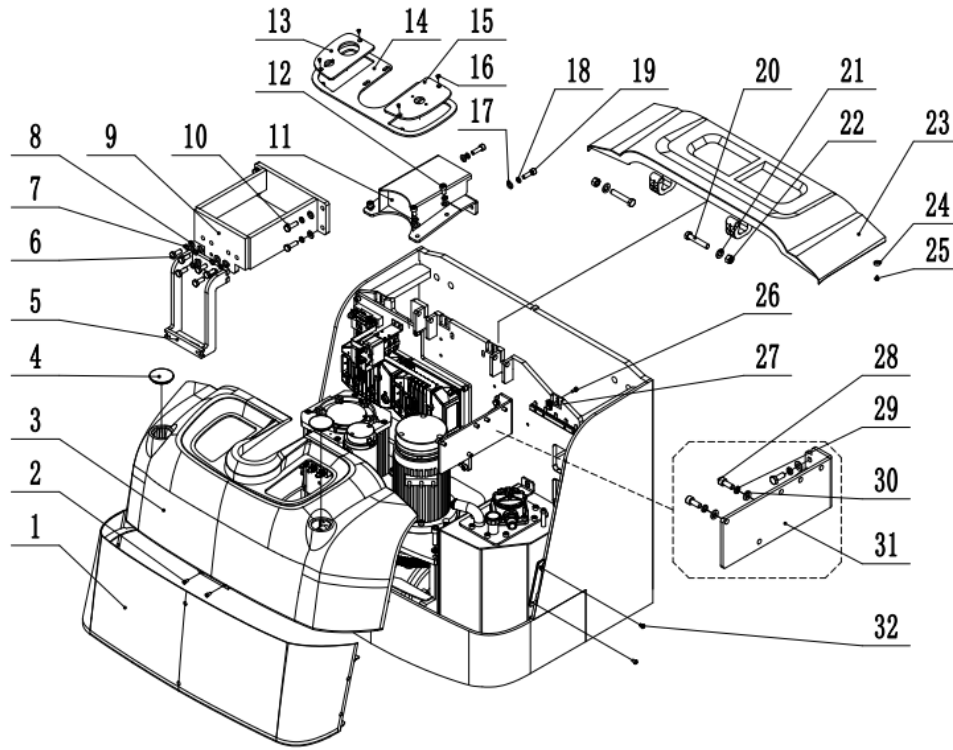


Figure2

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

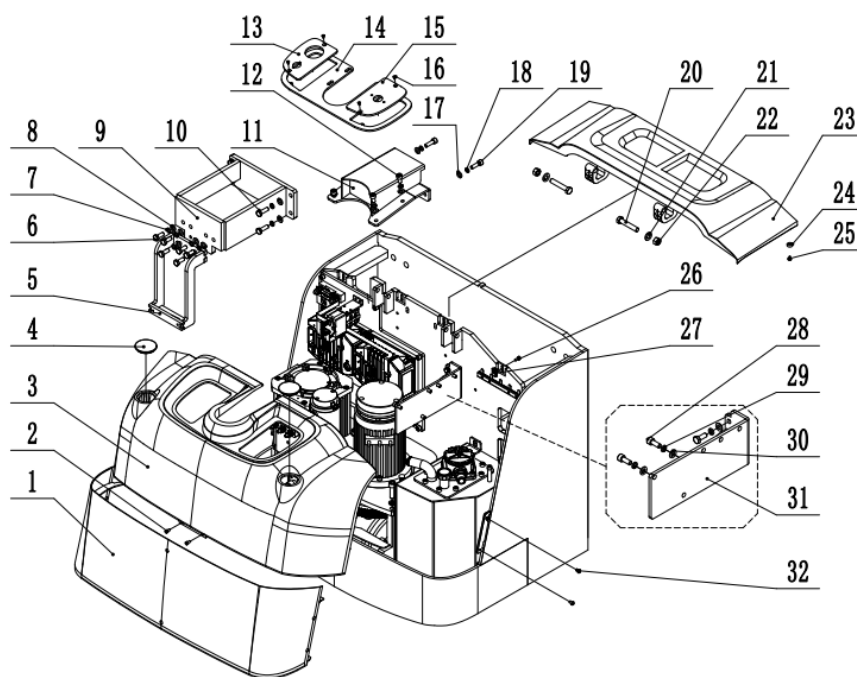


Figure2

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

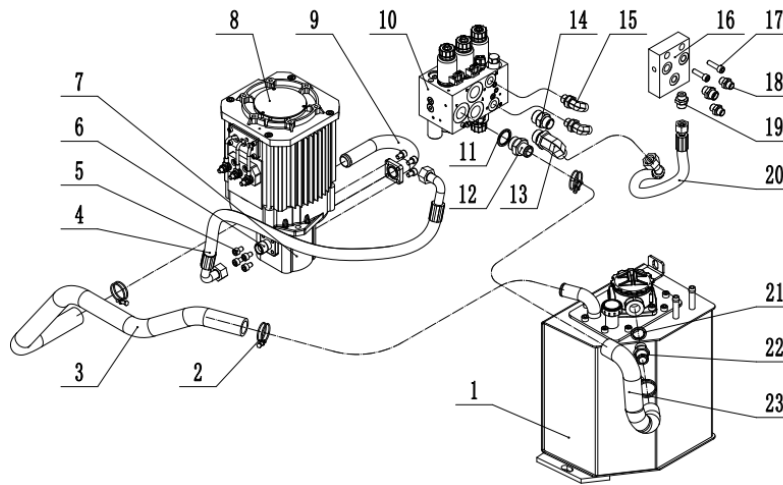


Figure3

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

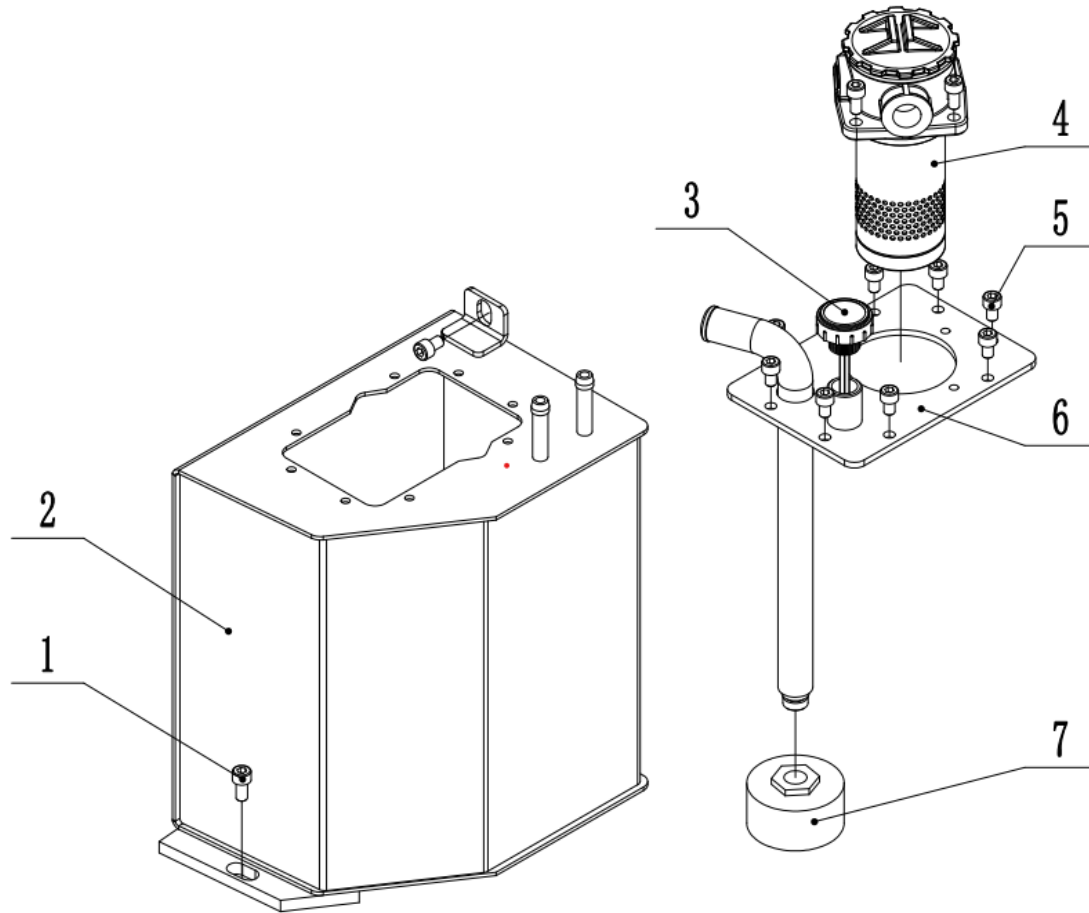


Figure4

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

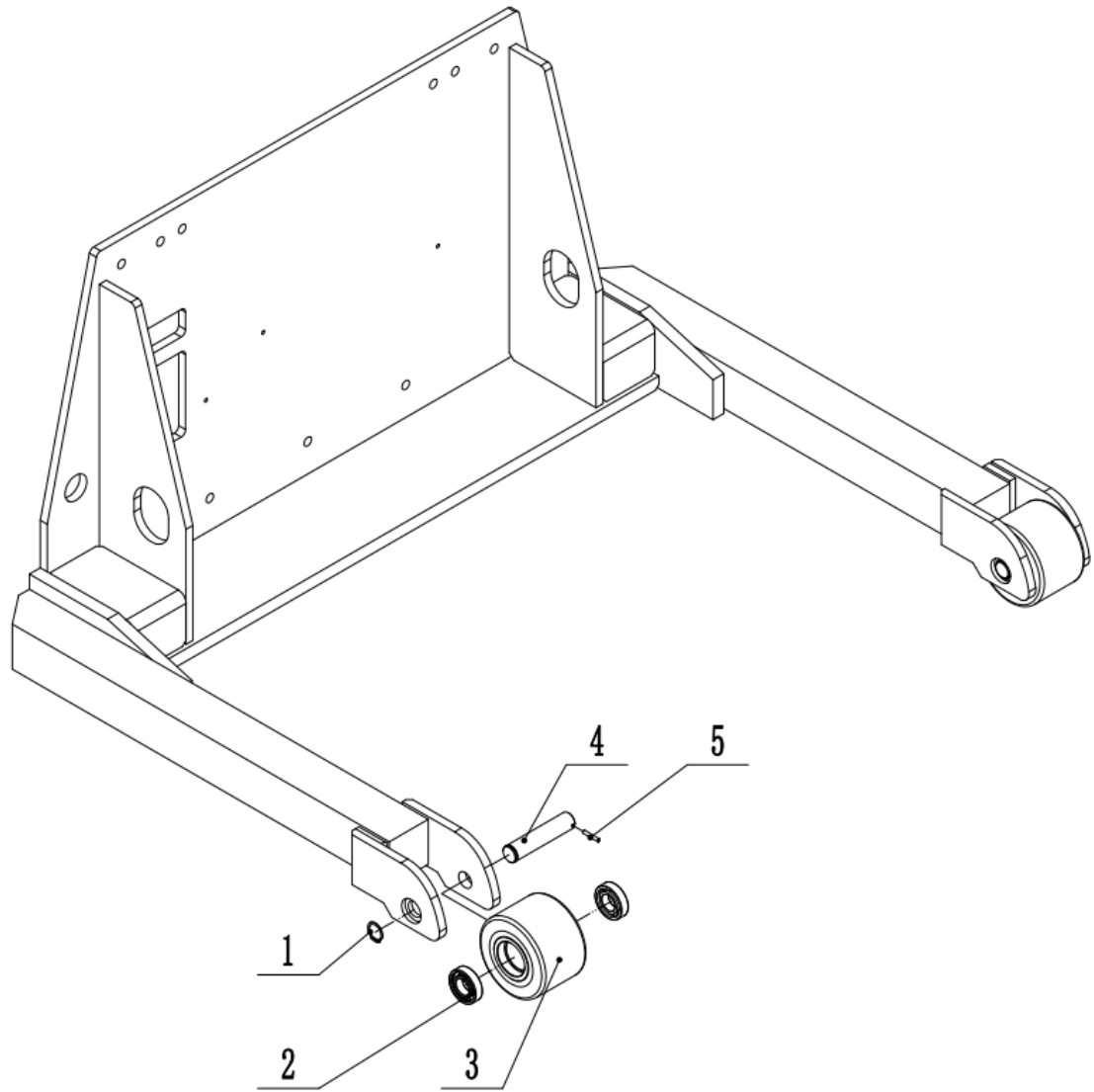


Figure5

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

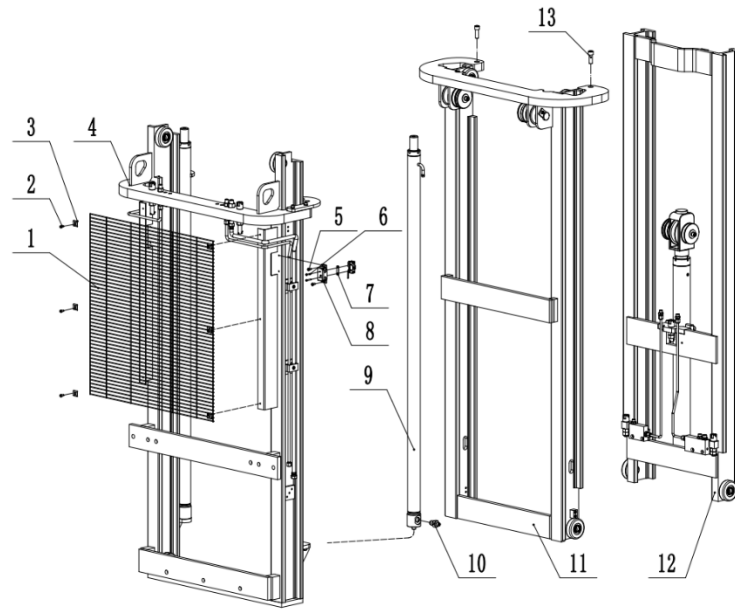


Figure6

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

Gantry System - Exterior gantry assembly

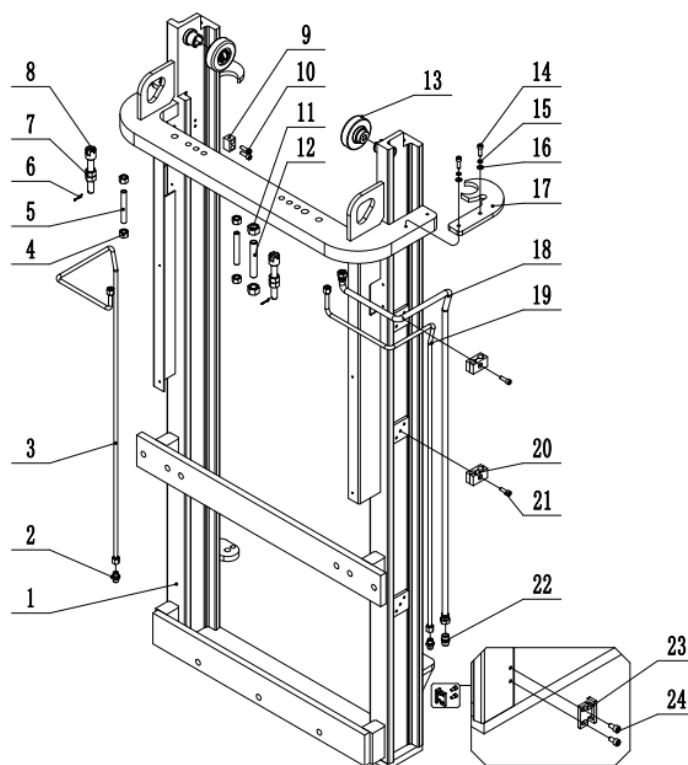


Figure7

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	

Table7-1

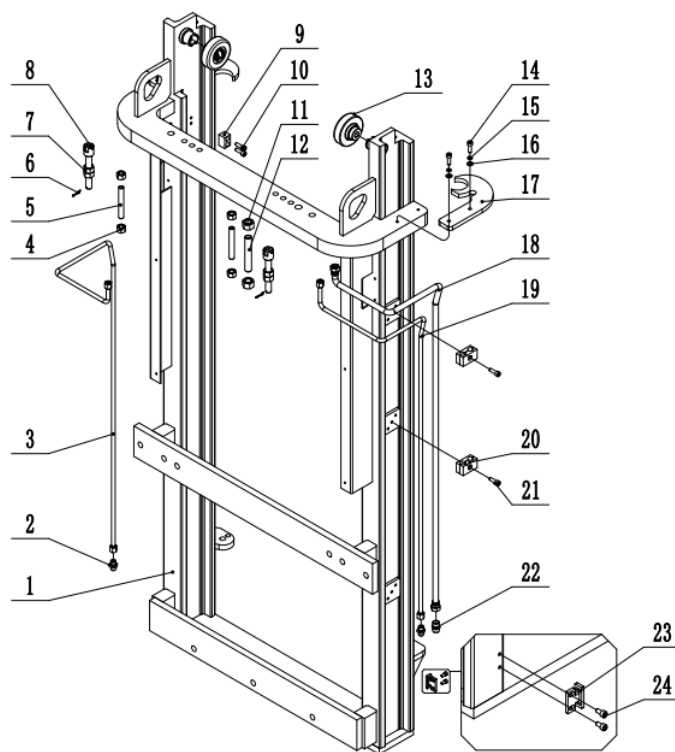


Figure7

Index	Part No.	Drawing Number	Part Name	QTY
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

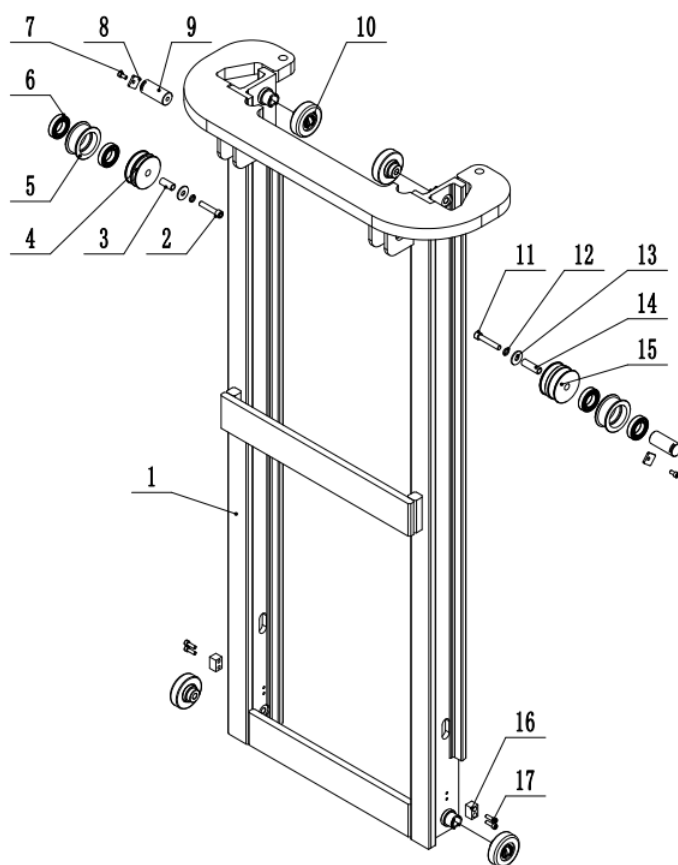


Figure 8

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

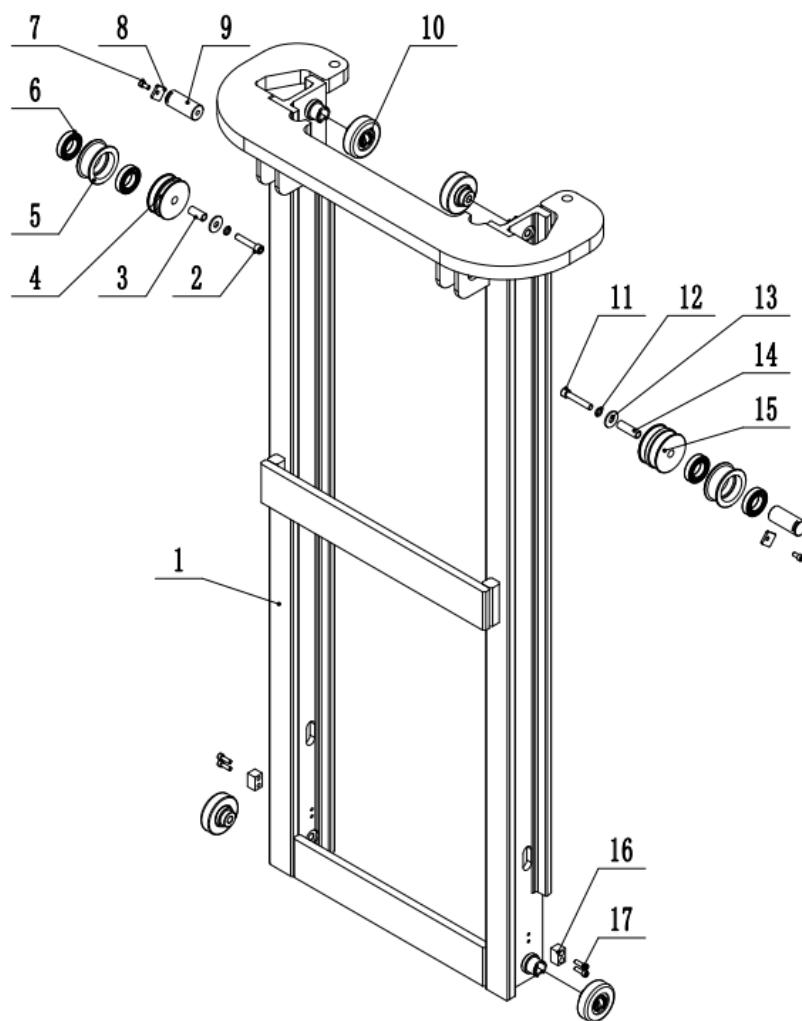


Figure 8

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

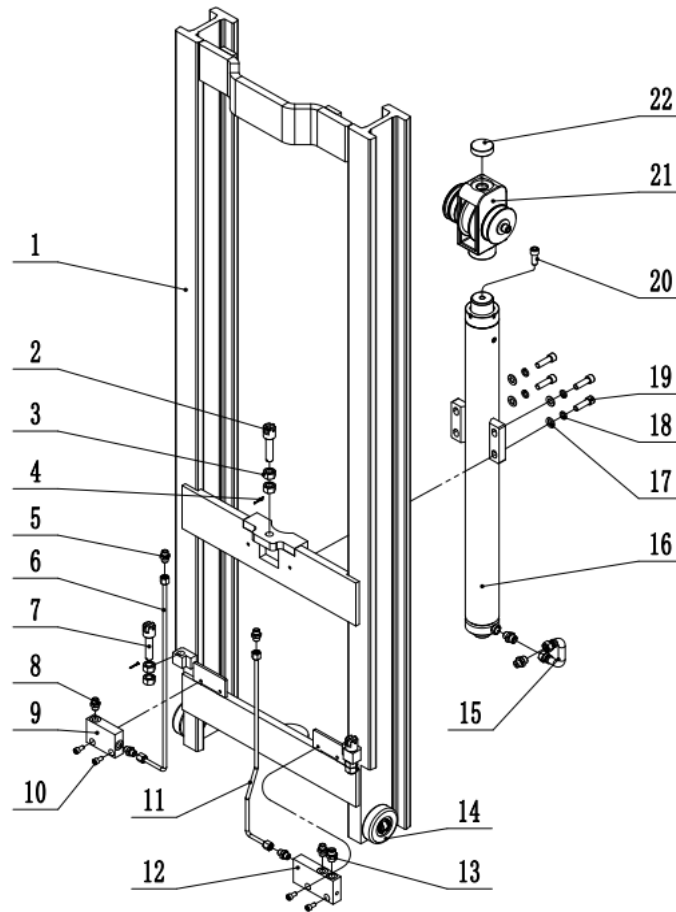


Figure 9

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	1CH-14	Connector	4	
9	73005000077	CQD15-8700120	Oil return transfer valve block	1	

Table9-1

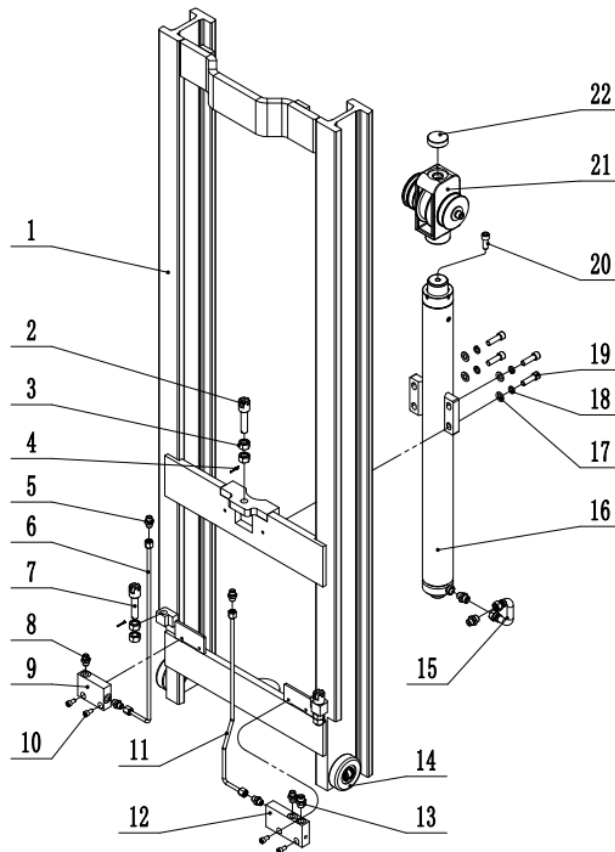


Figure9

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

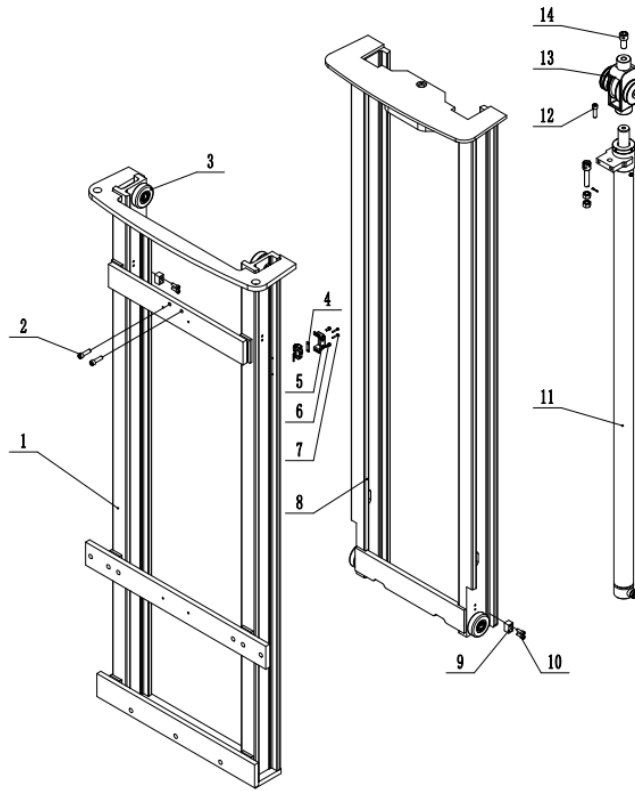


Figure10

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

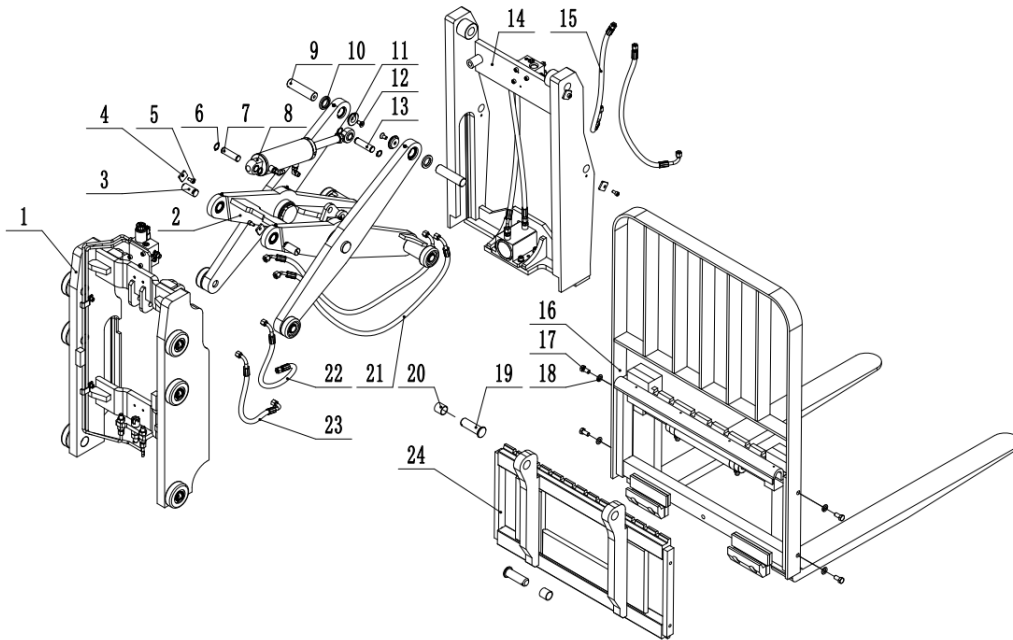


Figure11

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

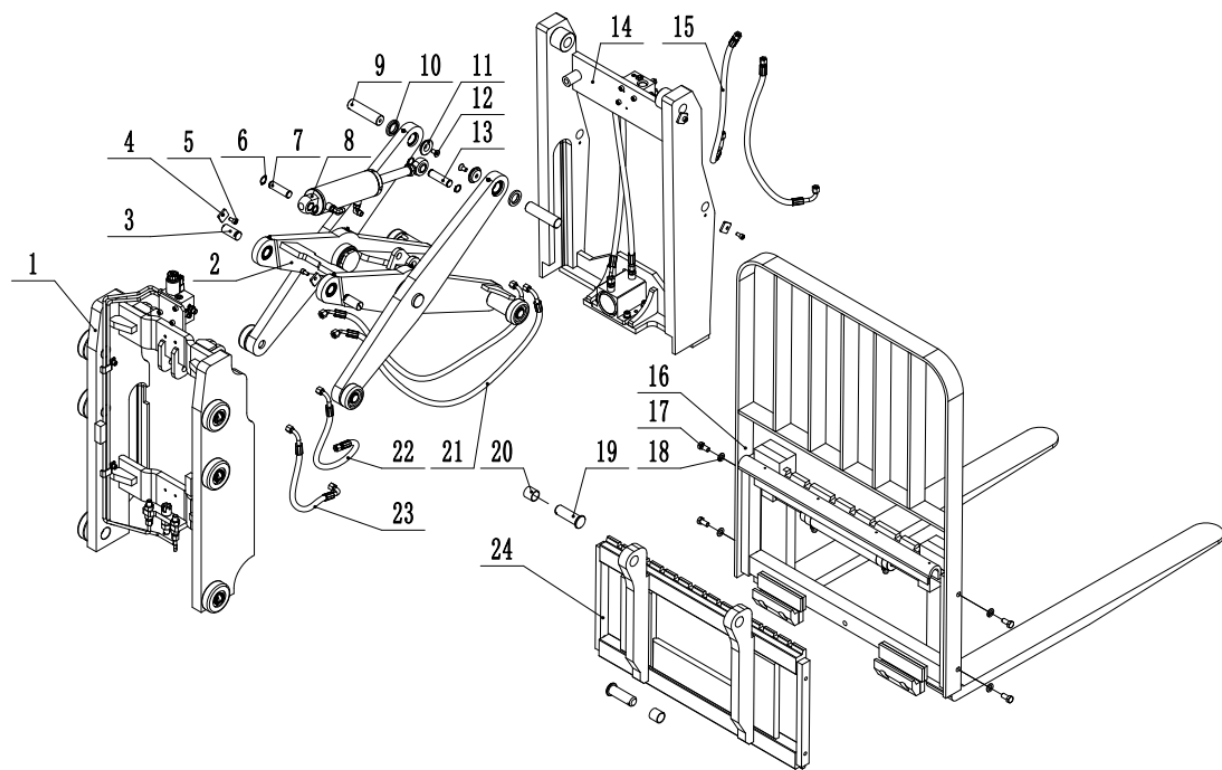


Figure11

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

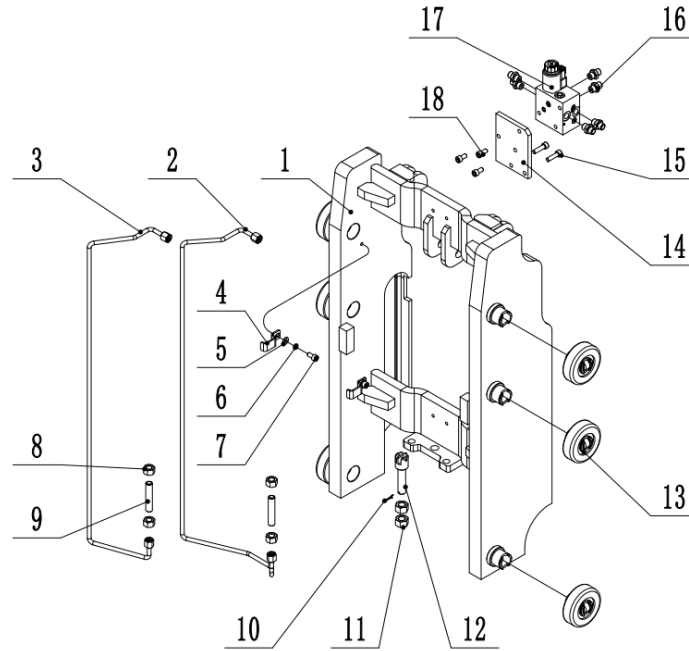


Figure12

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

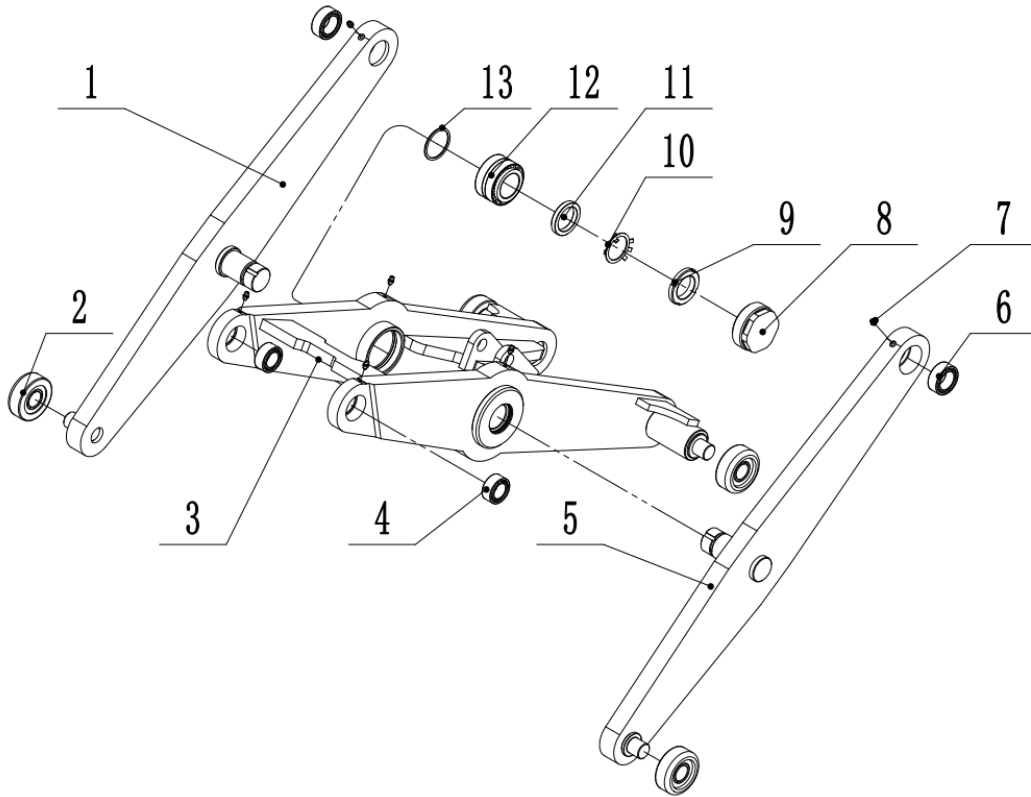


Figure13

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

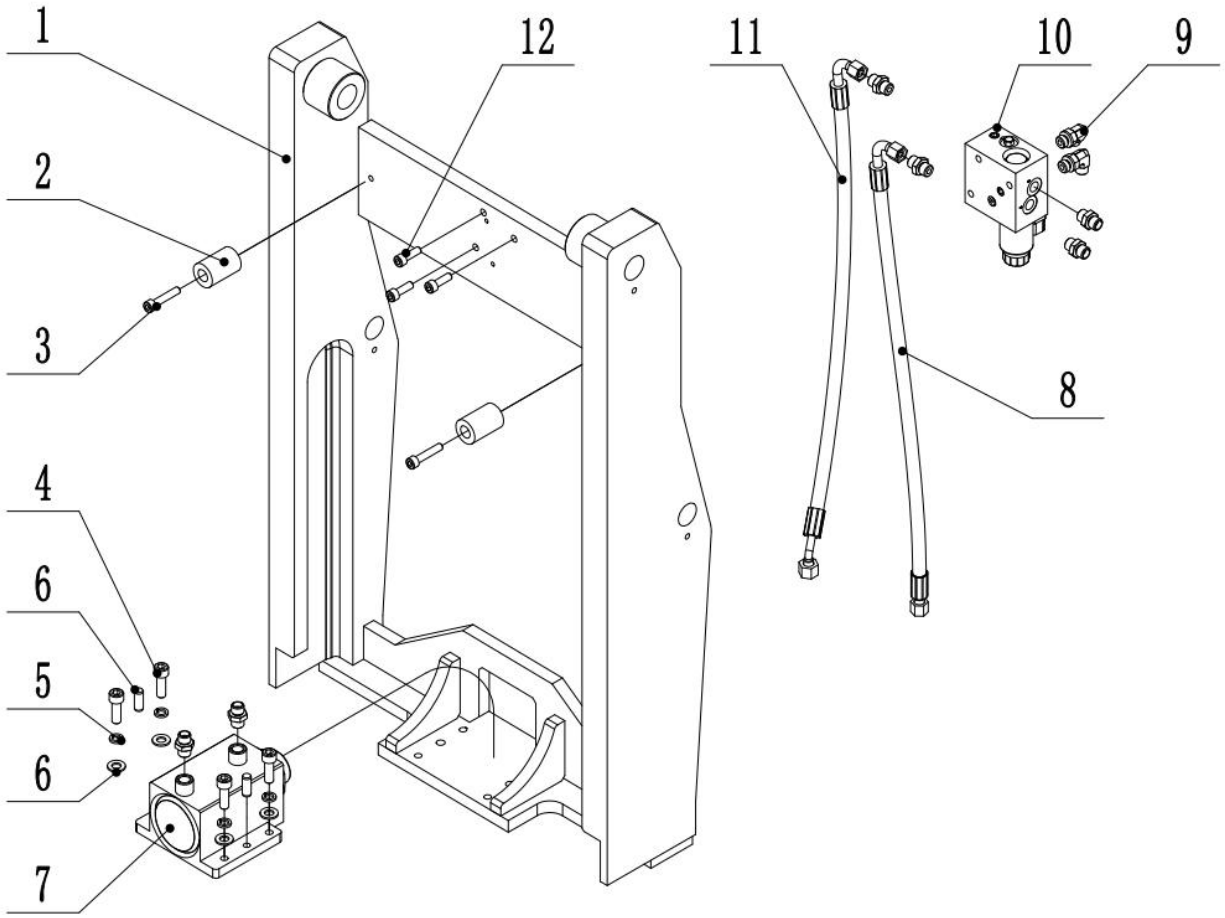


Figure14

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)

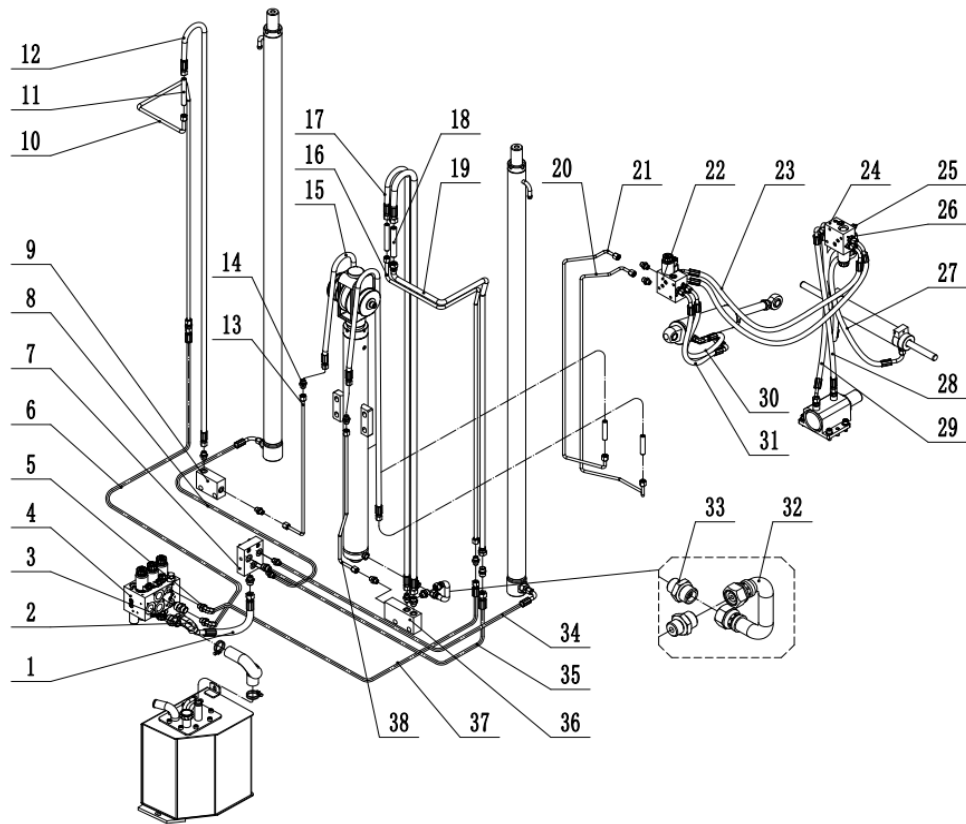


Figure15

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

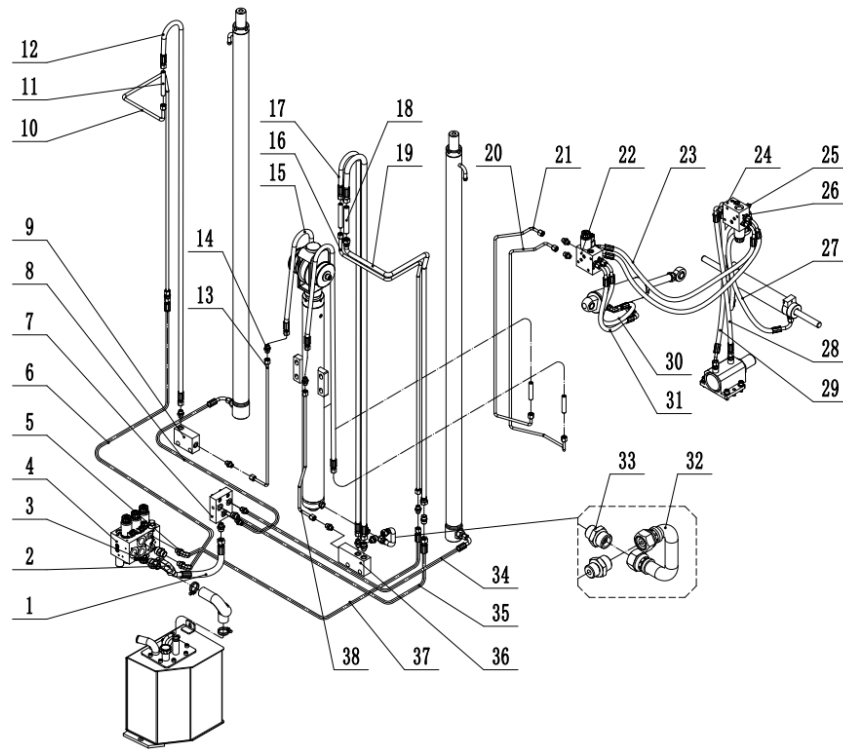


Figure15

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

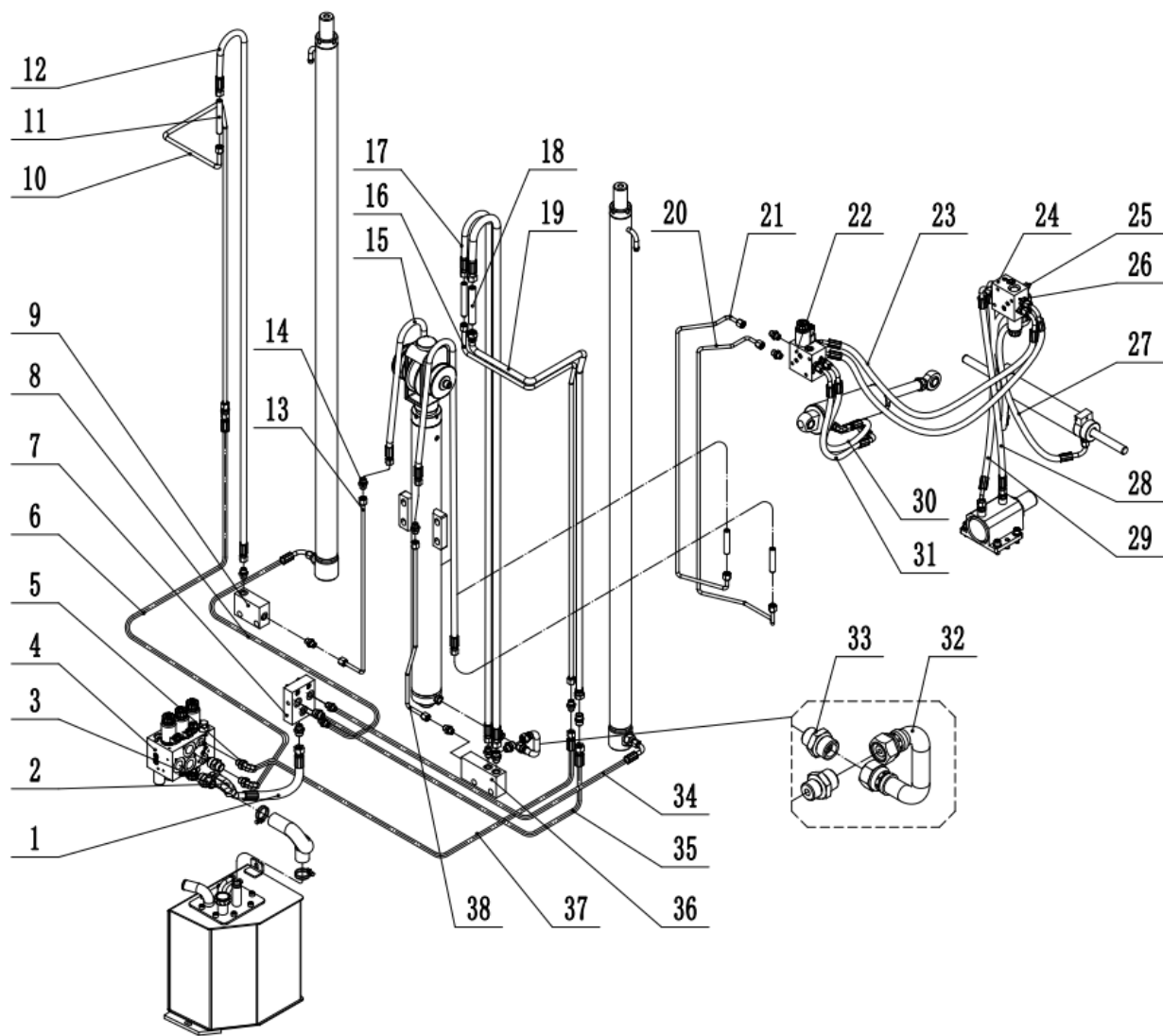


Figure15

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)

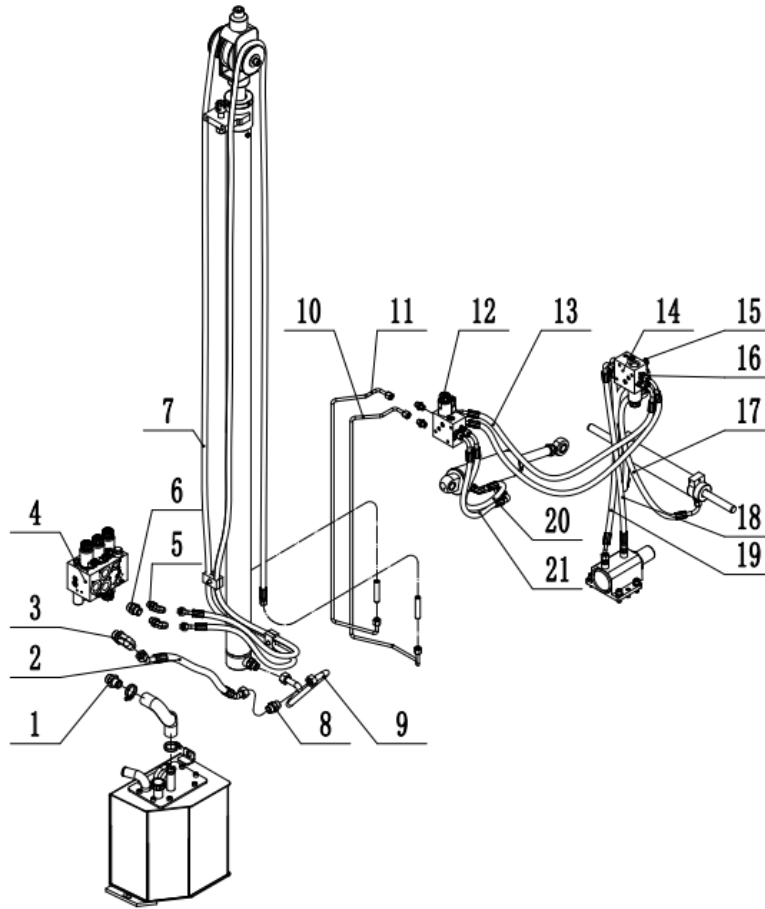


Figure16

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

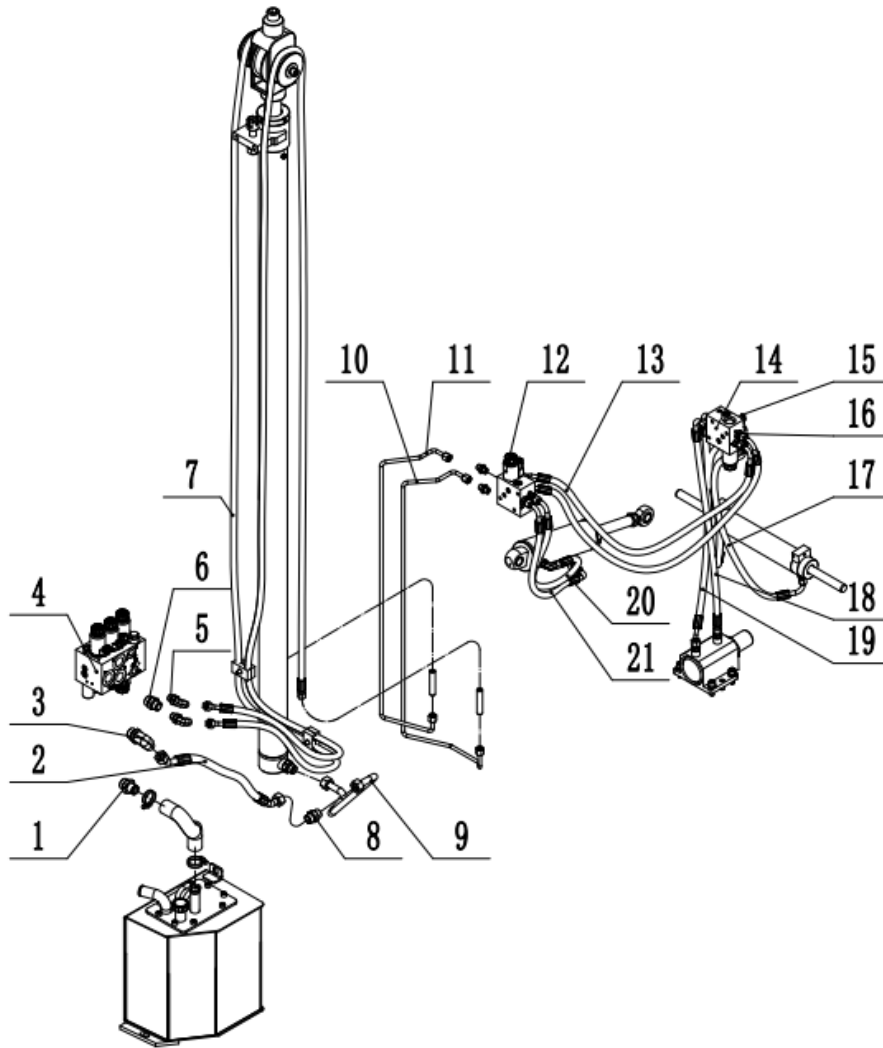


Figure16

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

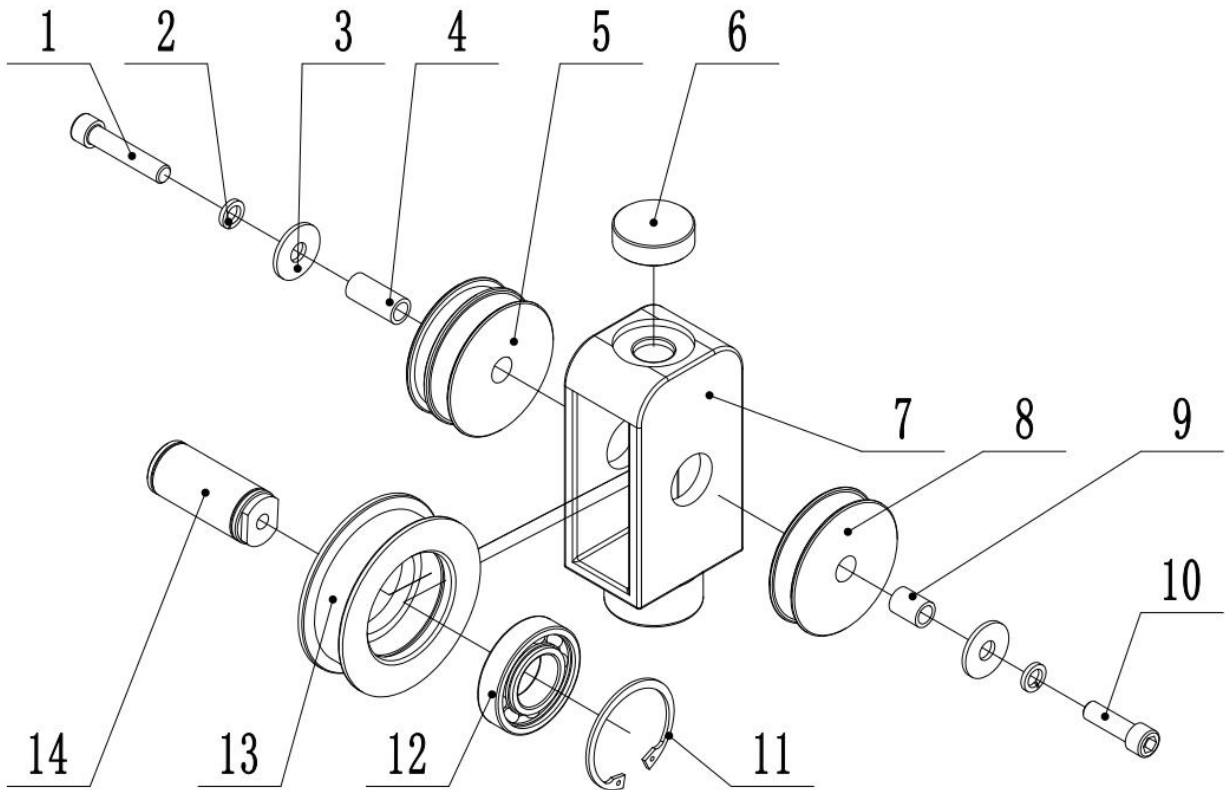


Figure17

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

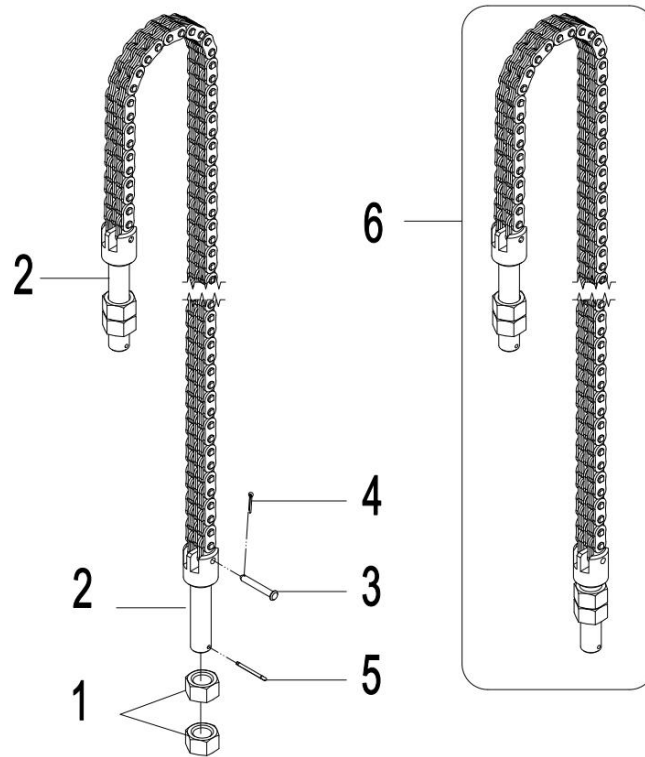


Figure18

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-02508-40	Medium cylinder chain assembly 40 knots	1	4.5 m
	8Q014009021	QQA-02508-42	Medium cylinder chain assembly 42 knots	1	4.8
	8Q014009004	QQA-02508-44	Medium cylinder chain assembly 44 knots	1	5 m
	8Q014009005	QQA-02508-47	Medium cylinder chain assembly 47 knots	1	5.5 m

Table18

Gantry system - Lifting chain

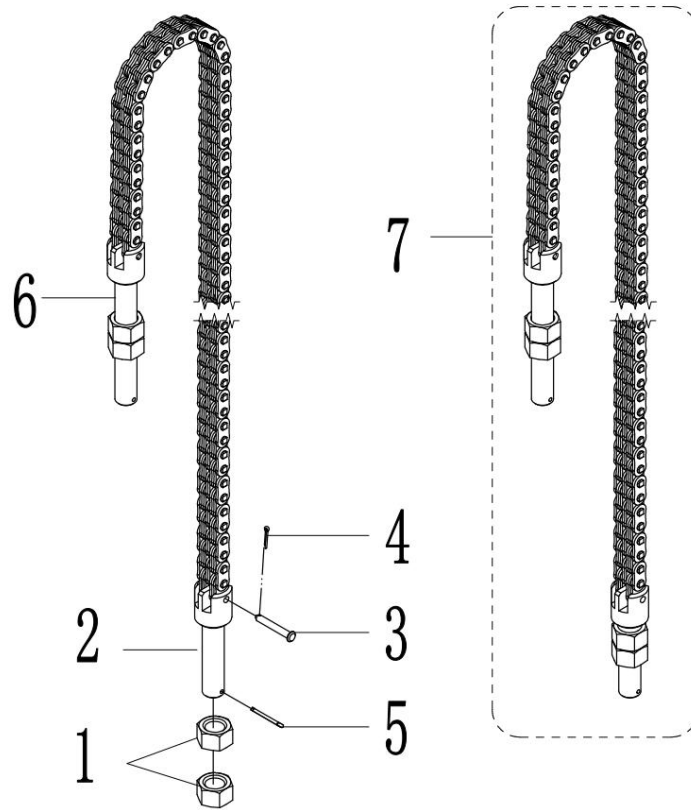


Figure19

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

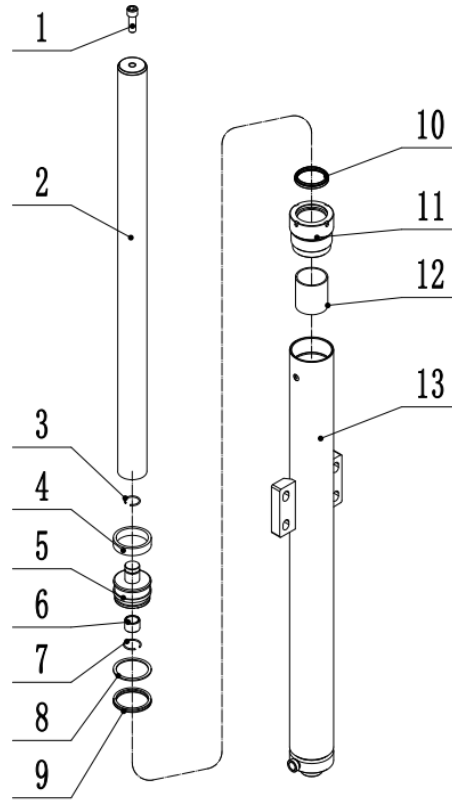


Figure20

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

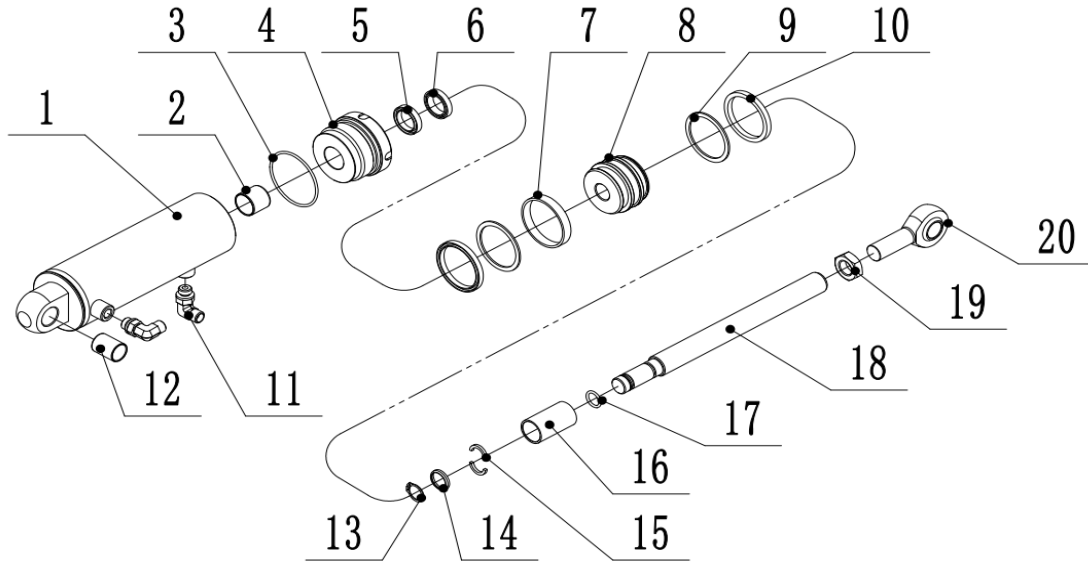


Figure21

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	231001000062	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

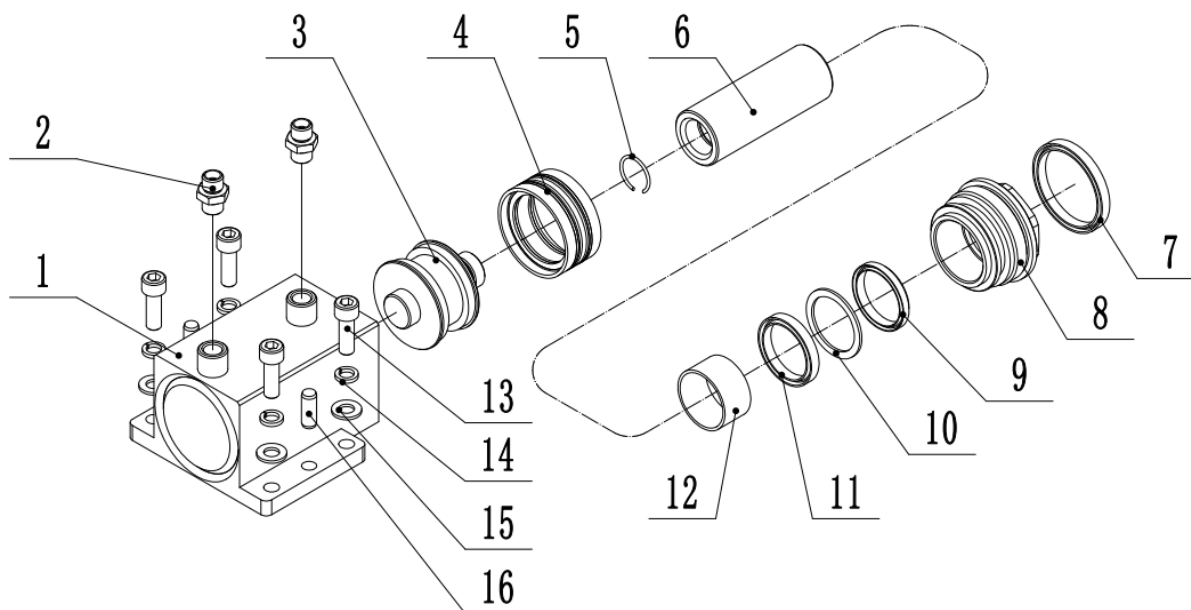


Figure22

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

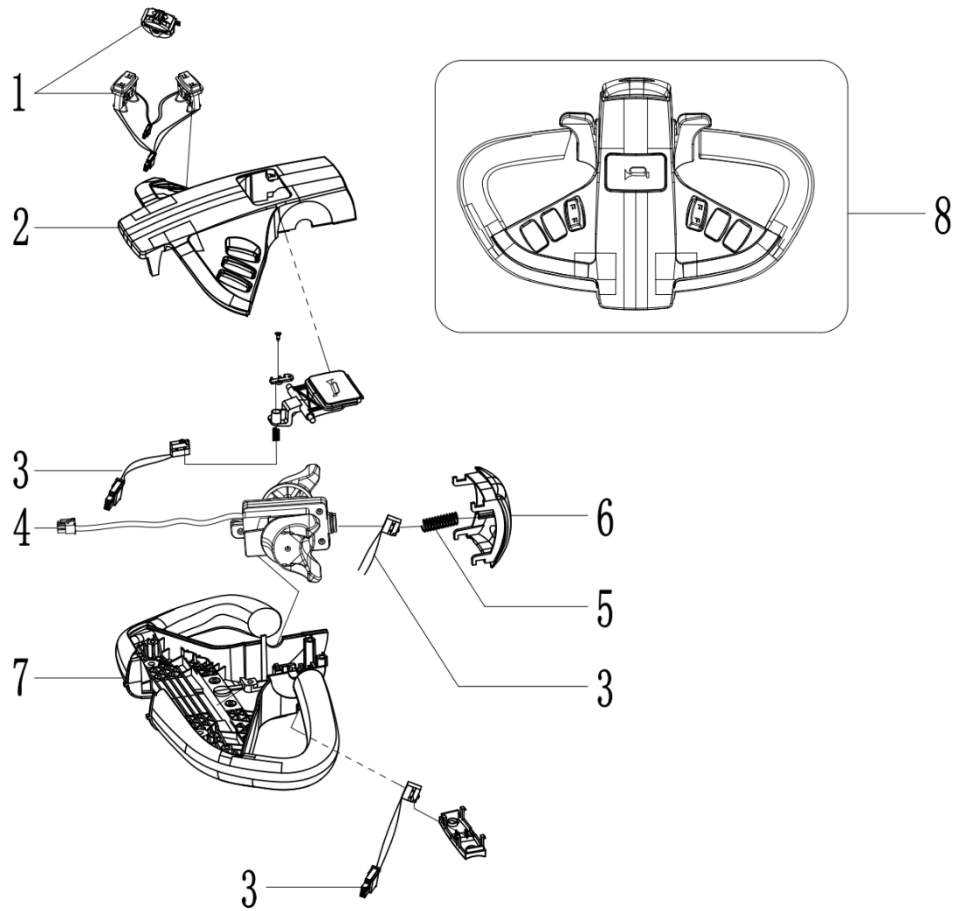


Figure23

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

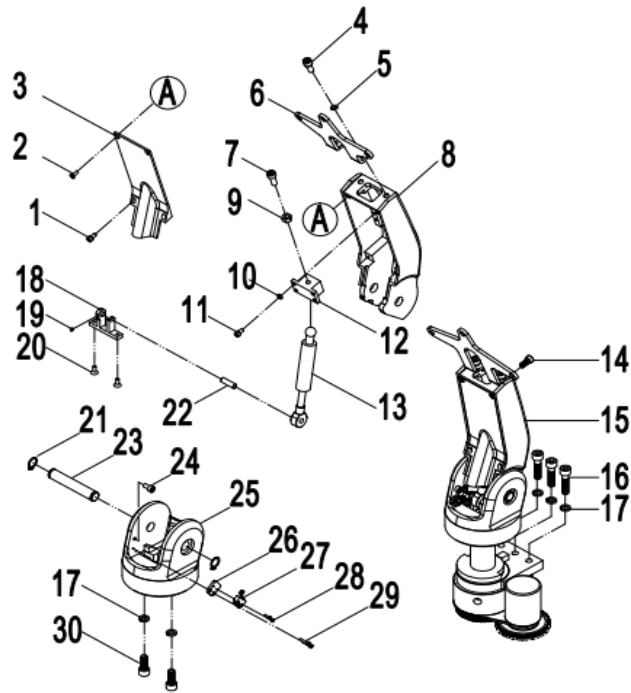


Figure24

Index	Part No.	Drawing Number	Part Name	QTY
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 M8x12	2
5	22501200004	GB93	Spring washer 8	2
6	8D085001001	QDA-01019A	Handle retaining plate	1
7	22000400032	GB70.1	Screw M8x20	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 M5x12	4
12	8B21500000020	QBA30A0300003	Gas spring upper seat	1
13	7200901000012	QBA30A0300002	Gas spring	1
14	22101700007	GB70.2	Hexagon flat round head screw M8x12	3
15	8D112017011	BOA-01000A	Steering system	1

Table24-1

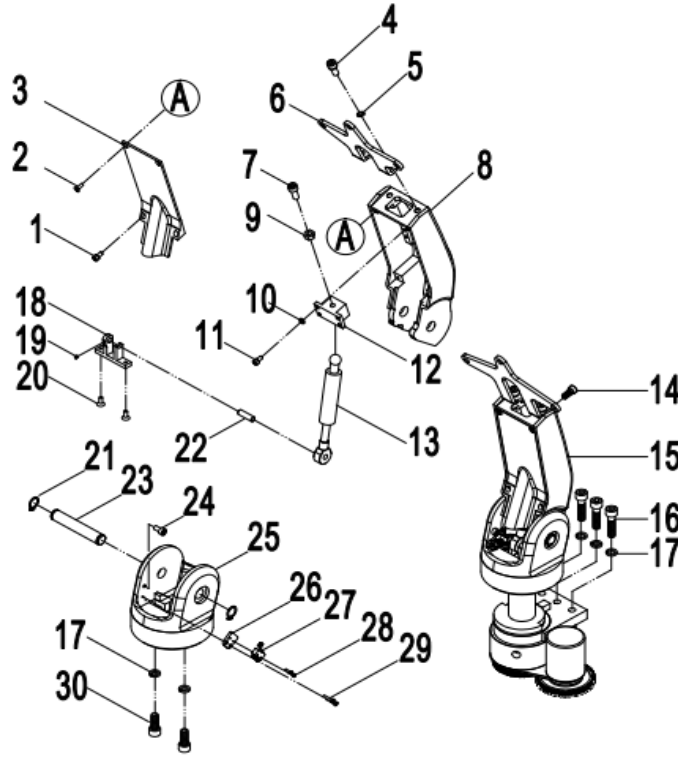


Figure24

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	7200300000503	QBA30A0300007	pin	1	
23	7200300000502	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

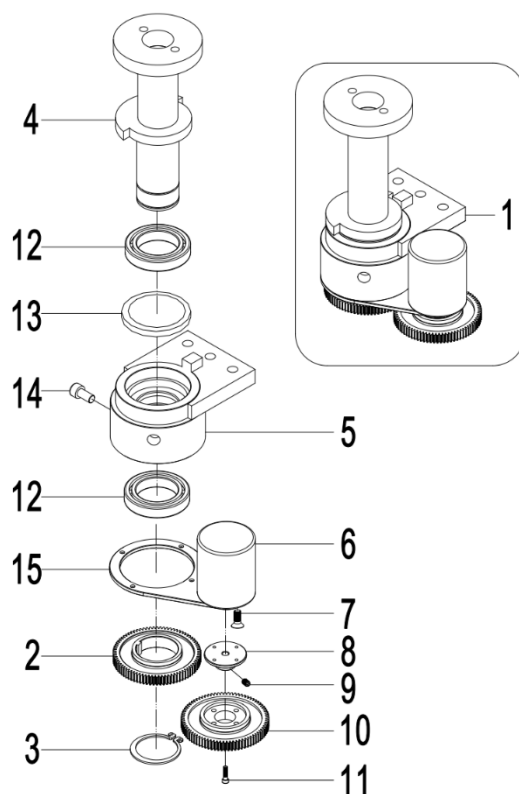


Figure25

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

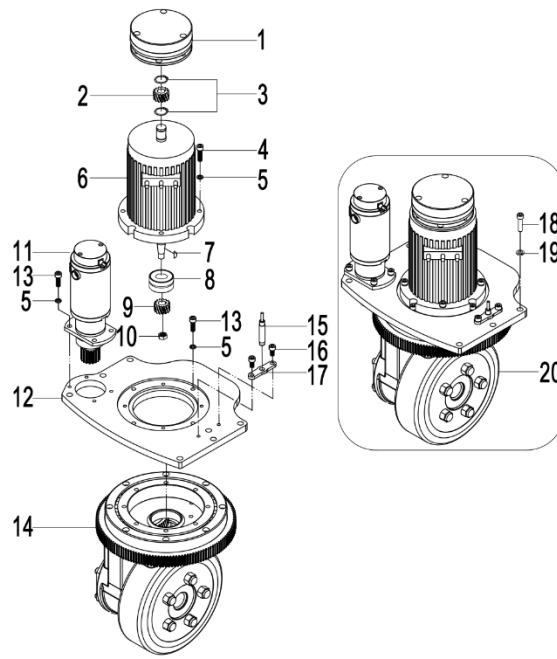
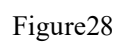


Figure26

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

Table27

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

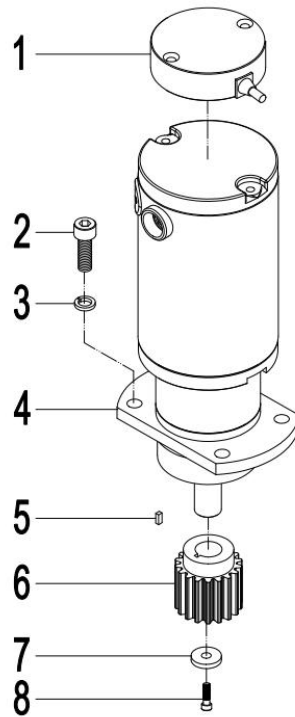


Figure29

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

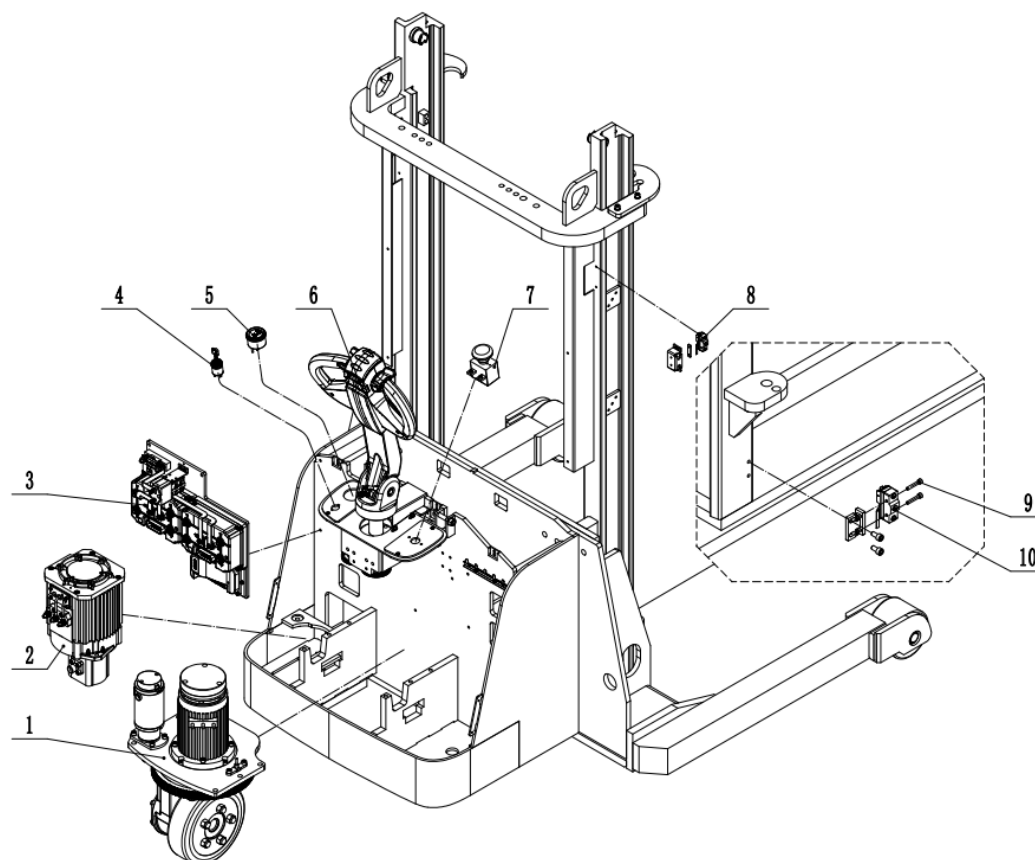


Figure30

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

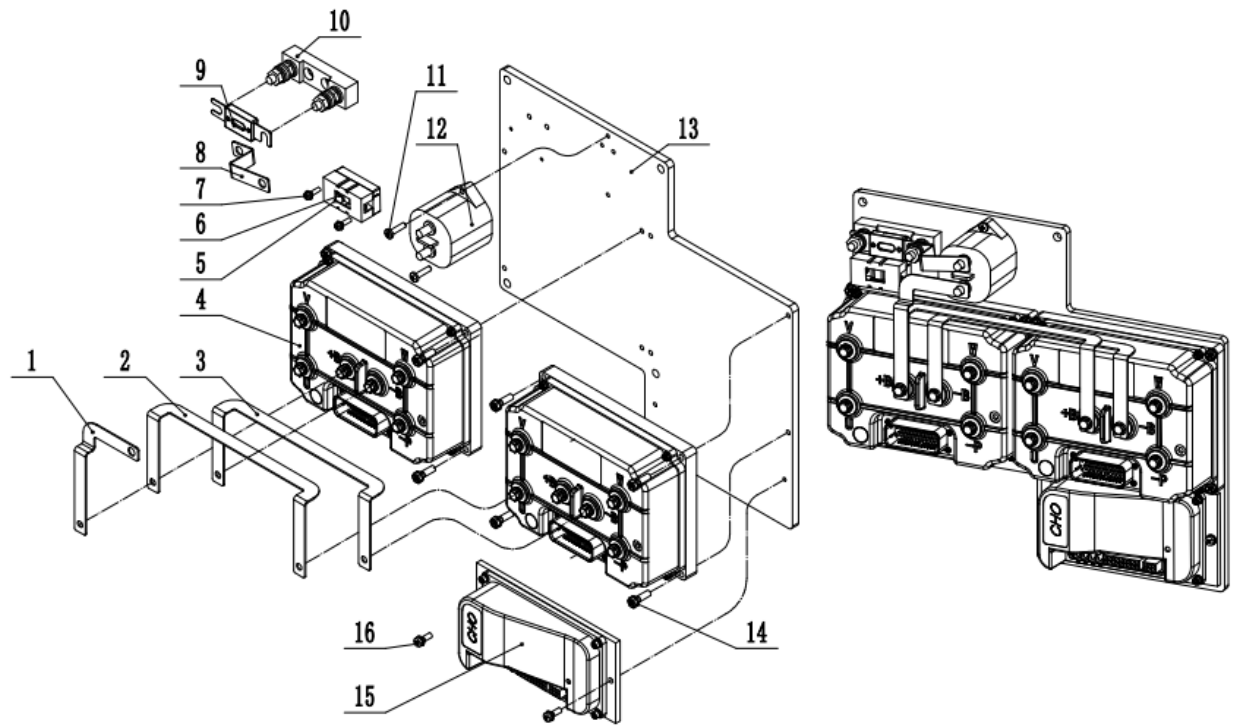


Figure31

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

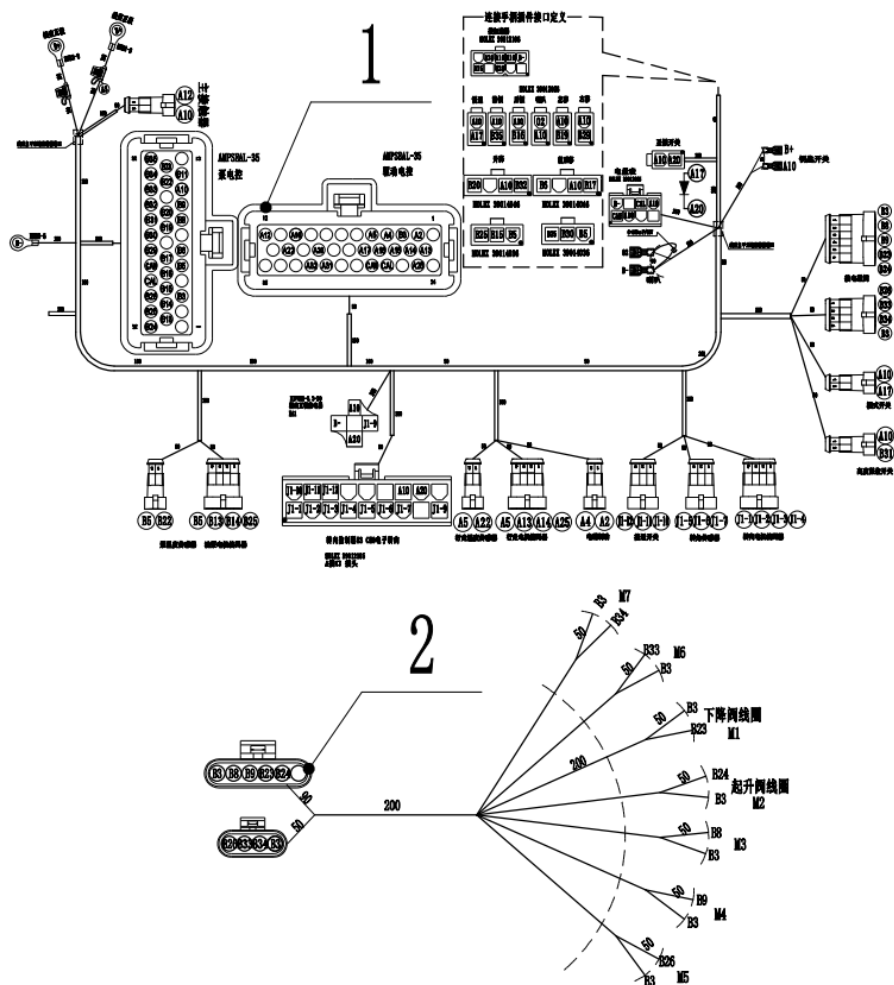


Figure32

Index	Part No.	Drawing Number	Part Name	QTY	Remark
1	120000000212	CQD15-1321000	Car body harness (lithium)	1	
	12000000351	CQD15-1321001	Harness of car body (lead acid)	1	
2	12000000352	CQD15-1321002	Solenoid valve harness	1	

Table32

Power line to map

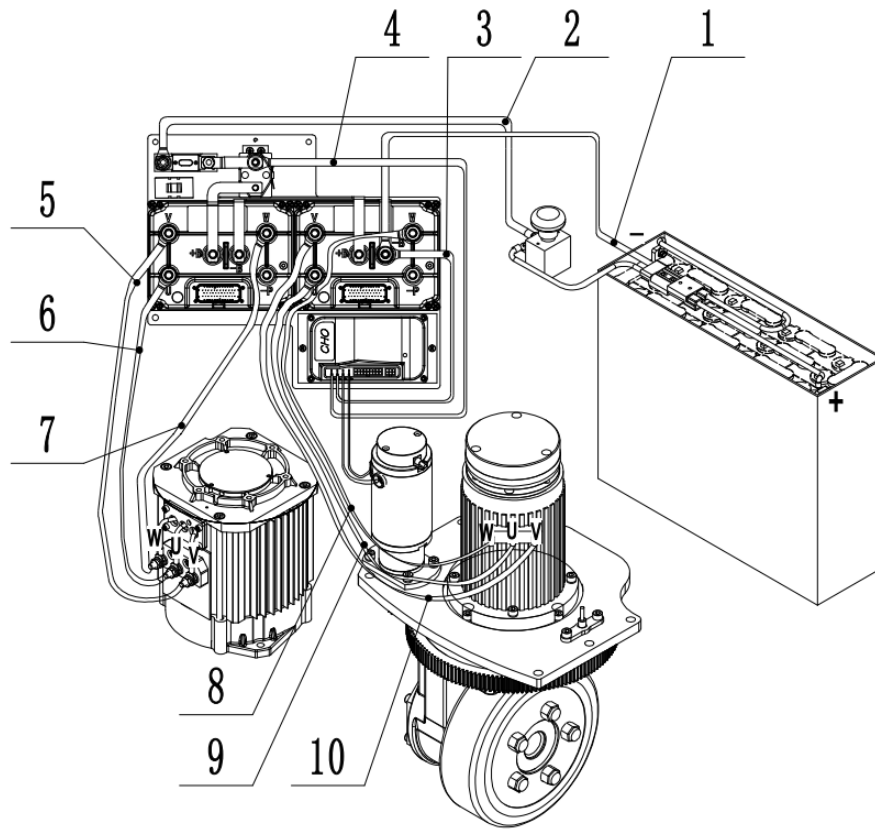


Figure33

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- NA4905	Complete set of needle roller bearings 25x42x17	2	Figure12
4	23009900013	GB5801-2006- NA4906	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	