



EKKO EK15A/EK13A
THREE WHEEL ELECTRIC FORKLIFT
Parts manual

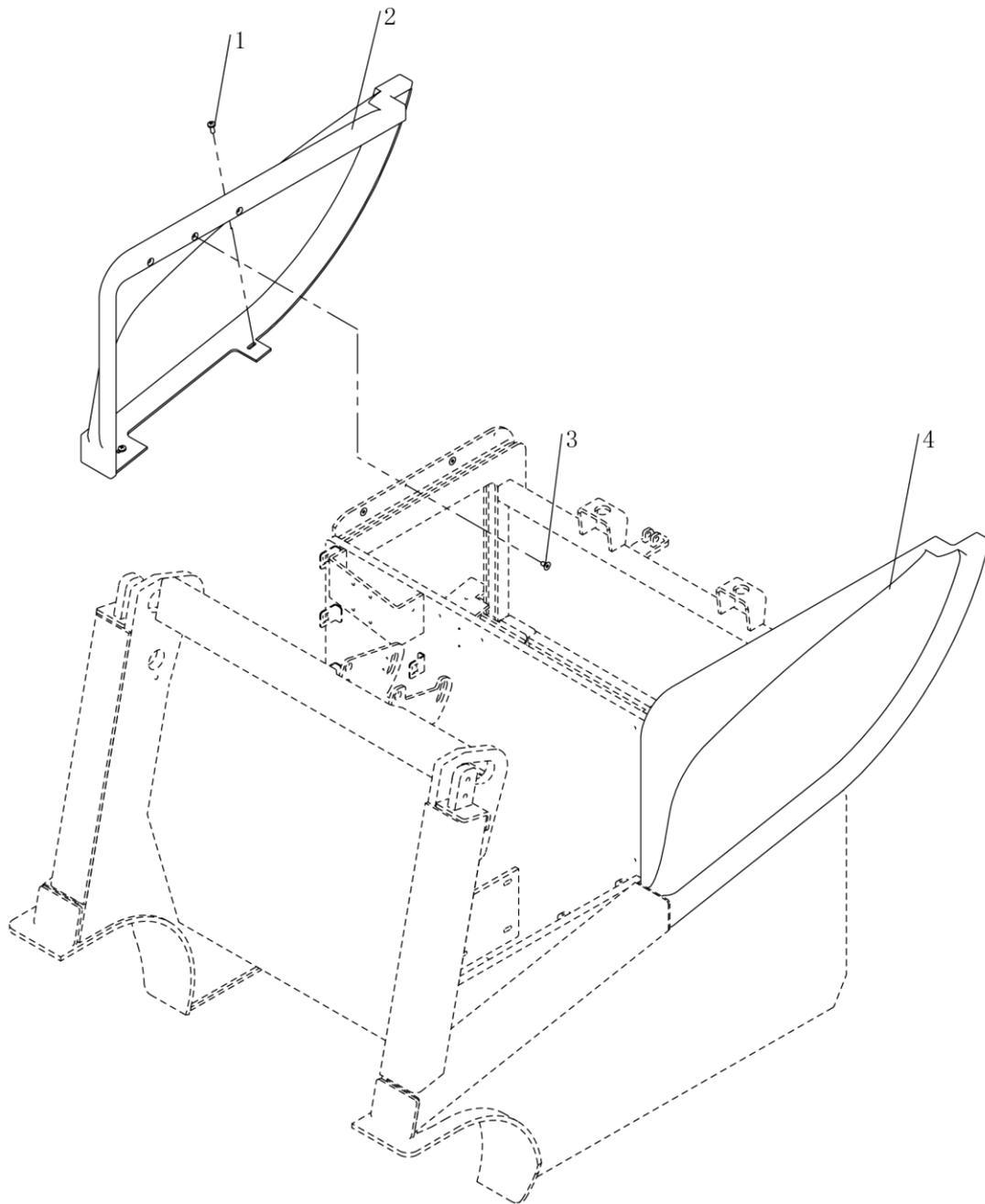


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1.Body system

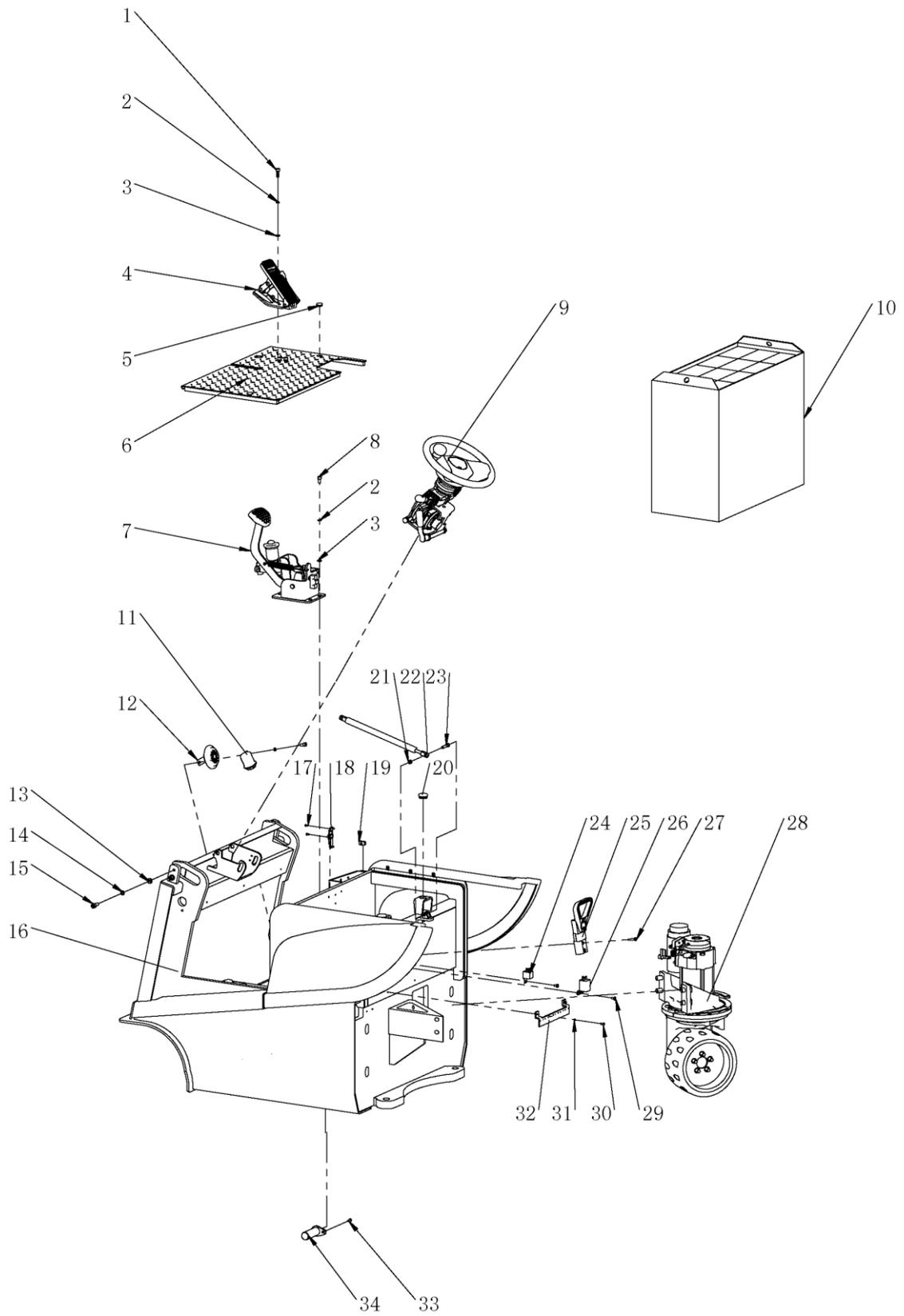
1.1 Body covering



1.1 Body covering

The serial number	Code name	The name of the		The number of
1	GB/T 818-2000	Cross slotted head screw	M6×16	4
2	EK15A-01.2.1	Right side covering		1
3	GB/T 70.3-2000	Hexagon socket head screw	M6×12	6
4	EK15A-01.14	Left side covering		1

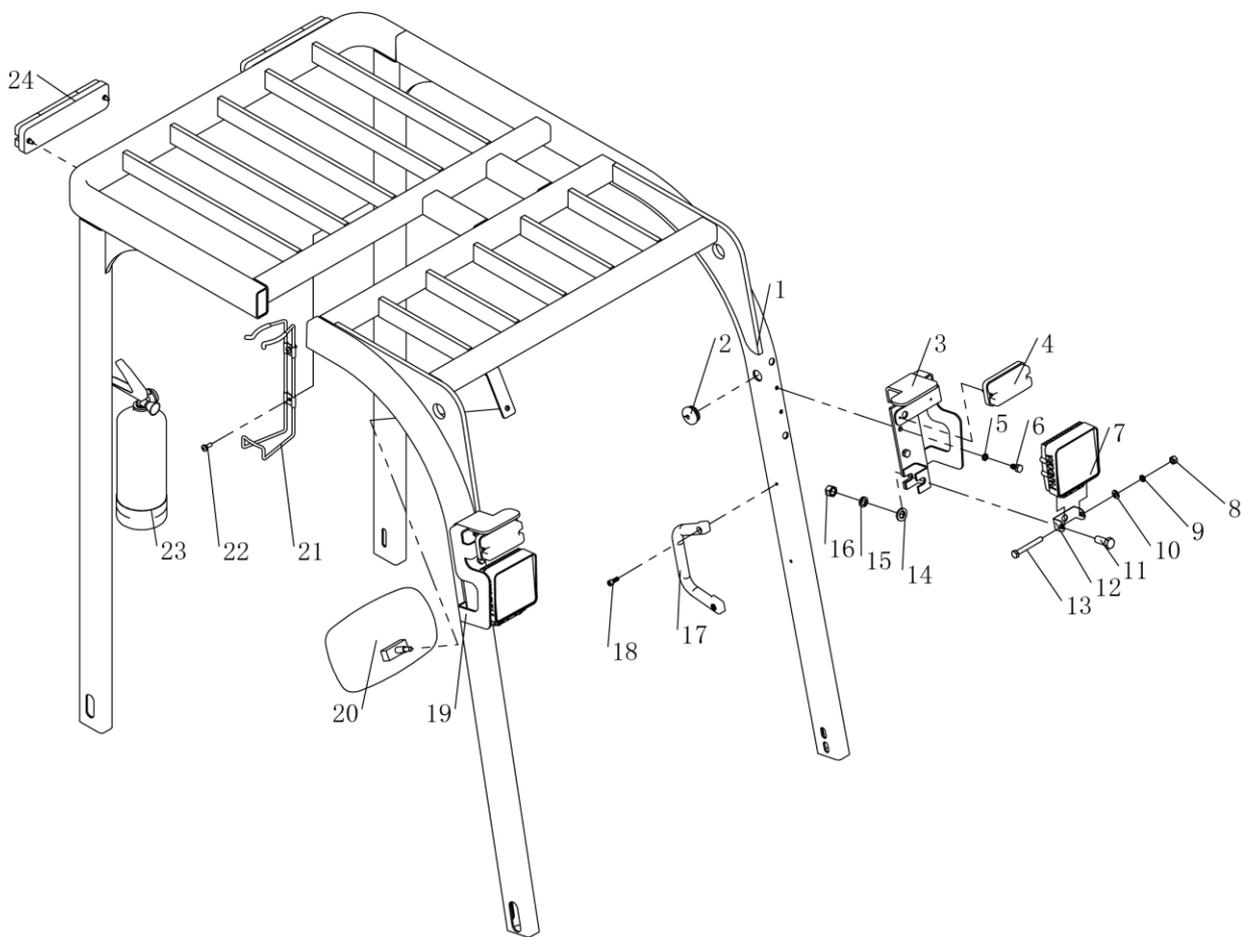
1.2 Body assembly



1.2 Body assembly

The serial number	Code name	The name of the		The number of
1	GB/T 70.1-2000	Hexagon socket head screw	M8×25	3
2	GB/T 93-1987	Elastic washer	Φ8	7
3	GB/T 97.2-1985	Flat washer	Φ8	6
4	DTJ01301	The accelerator		1
5		CL rubber plug		2
6	EK15A-01.5	Front pedal weld assembly		1
7	EK15A-01.4	Foot brake assembly		1
8	GB/T 70.1-2000	Hexagon socket head screw	M8×16	3
9	EK15A-01.3	steering		1
10	E10GS-01.10	The battery assembly		1
11	SG-Z	Reversing alarm		1
12	DC24-Φ125	The horn		1
13	GB/T 97.2-1985	Flat washer	Φ10	4
14	GB/T 93-1987	Elastic washer	Φ10	4
15	GB/T 70.1-2000	Hexagon socket head screw	M10×25	4
16	EK15A-01.1	Frame welded		1
17	GB/T 70.2-2000	Hexagon socket head screw	M4×10	4
18	5103B	Flat no2 button		1
19		Spring clasp nut	M6	11
20	CS1232.8-1	Anti-shock pad		2
21	GB/T 6184-2000	Hexagonal lock nut	M8	1
22	EK15A-01.9	Gas spring	200N	1
23	GB/T 70.1-2000	Hexagon socket head screw	M8×35	1
24	ACR01F-F1C	relay	24VDC	1
25	TY-02.57	Large power connectors	175V-600V	1
26	SG252B	Smart electronic flash		1
27	GB/T 818-2000	Cross slotted head screw	M6×30	2
28	EK15A-01.17	The drive assembly		1
29	GB/T 818-2000	Cross slotted head screw	M6×12	3
30	GB/T 70.1-2000	Hexagon socket head screw	M5×10	2
31	GB/T 93-1987	Elastic washer	Φ5	2
32	E2E-01.15	Terminal block		1
33	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
34	EK15A-01.6	Welding of tilting cylinder pin shaft		1

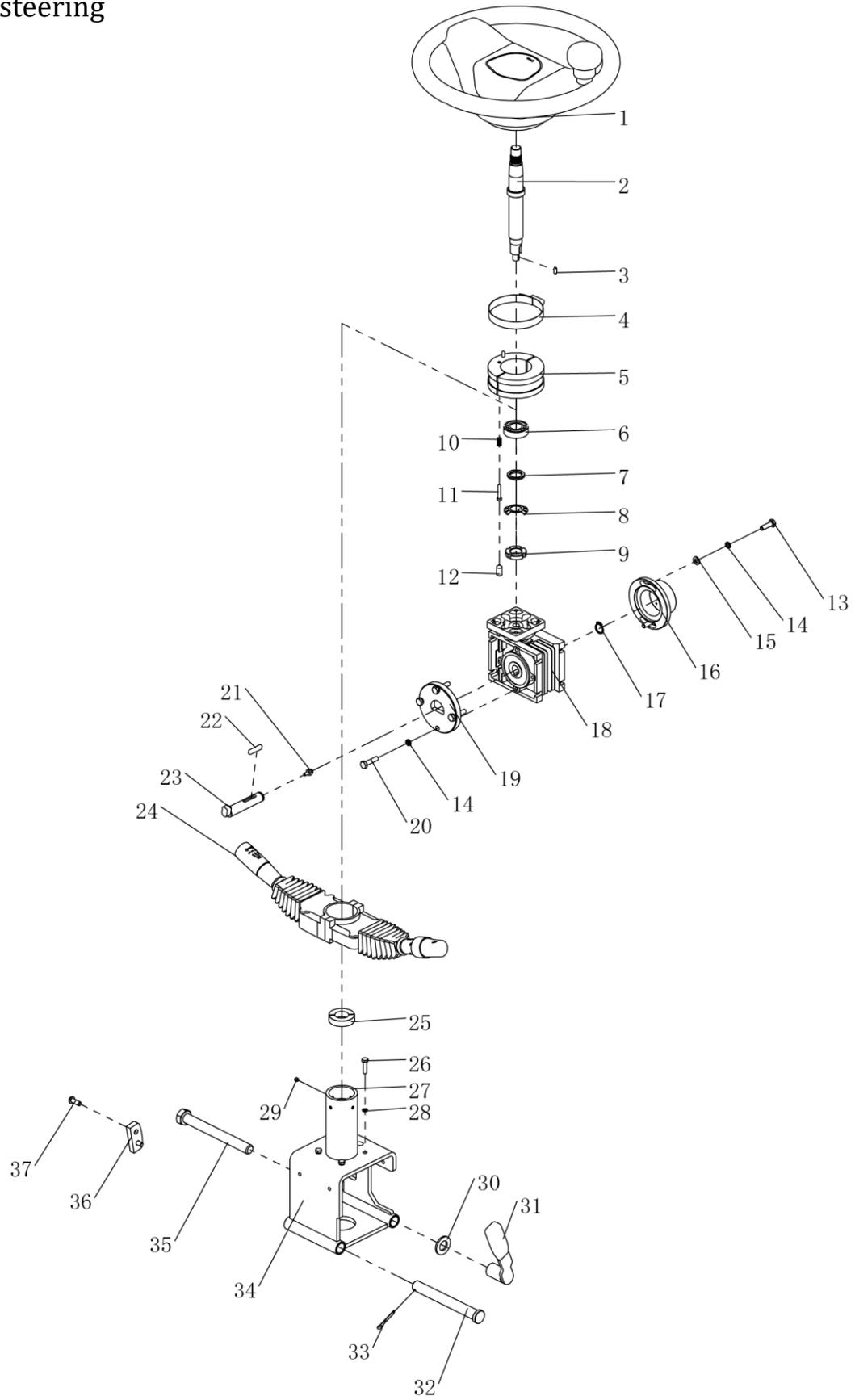
1.3 Roof bracket assembly



1.3 Roof bracket assembly

The serial number	Code name	The name of the		The number of
1	E15-05.1	Roof welding		1
2	E20.8-1	Anti-shock pad		3
3	E1J-05.2.1	Weld left shield		1
4	PDL-LXXD-01	Turn signal		2
5	GB/T 93-1987	Elastic washer	Φ8	4
6	GB/T 5781-2000	Hexagonal head bolt	M8×16	4
7	PDL-AS27-01	headlamps		2
8	GB/T 6170-2000	Hexagonal nut	M8	2
9	GB/T 93-1987	Elastic washer	Φ8	2
10	GB/T 95-2002	Flat washer	Φ8	2
11	GB/T 5781-2000	Hexagon head bolt full thread	M12×30	2
12	PDL-AS27-01.1	Connection plate		2
13	GB/T 5781-2000	Hexagon head bolt full thread	M8×65	2
14	GB/T 95-2002	Flat washer	Φ12	2
15	GB/T 93-1987	Elastic washer	Φ12	2
16	GB/T 6170-2000	Hexagonal nut	M12	2
17	TY-02.18	The Handle		1
18	GB/T 70.1-2000	Hexagon socket head screw	M6×16	2
19	E15-05.3.1	Right shield welding		1
20	HS200×110	Rear view mirror		1
21	TY-02.59	2.2 pounds fire extinguishers bracket		1
22	GB/T 818-2000	Cross slotted head screw	M6×16	2
23	TY-02.59	32.2 pounds fire extinguishers		1
24	PDL-LXHW-02	Tail lamp		2

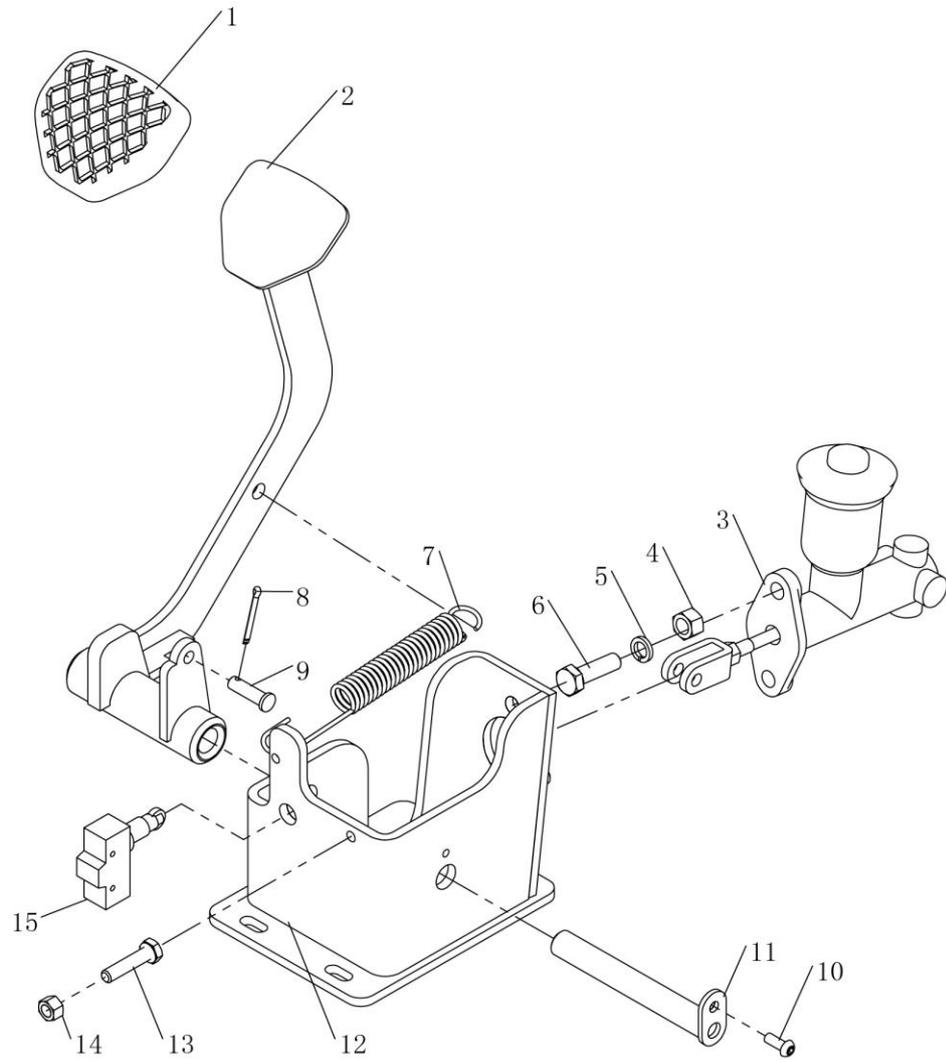
1.4 steering



1.4 steering

The serial number	Code name	The name of the		The number of
1	249M4-10201	The steering wheel		1
2	EK15A-01.3.7	Steering rod		1
3	GB/T 1096-2003	Flat key	3×10	1
4		clamp	Φ59-82	1
5	EK15A-01.3.3.2	Nylon ring 2		1
6	GB/T 292-94	Angular contact ball bearing	7003 C	1
7	EK15A-01.3.4	The gasket		1
8	GB 858-1988	The round nut USES a stop washer	Φ16	1
9	GB/T 812-1988	Round nut	M16×1.5	1
10		Compression spring	0.6×6×10	2
11	EK15A-01.3.3.3	Contact lever		2
12	GB/T 78-2000	Inner hexagon end set screw	M8×16	2
13	GB/T 5781-2000	Hexagon head bolt full thread	M6×20	2
14	GB/T 93-1987	Elastic washer	Φ6	6
15	GB/T 95-2002	Flat washer	Φ6	2
16	EK15A-01.3.9.3	Turn the sensor housing		1
17	GB 894.1-86	The shaft USES an elastic retainer	Φ14	1
18		Steering gear box		1
19	EK15A-01.3.9.2	Limit plate		1
20	GB/T 5781-2000	Hexagon head bolt full thread	M6×25	4
21		A small head		1
22	GB/T 1096-2003	Ordinary flat key	5×25	1
23	EK15A-01.3.9.1	The shaft		1
24	JK804AB-HC	Combination switch		1
25	EK15A-01.3.8	Nylon damper		2
26	GB/T 5781-2000	Hexagon head bolt full thread	M5×20	4
28	GB/T 93-1987	Elastic washer	Φ5	4
29	GB/T 77-2000	Hexagon socket set screw	M5×4	4
30	GB/T 95-2002	Flat washer	Φ14	1
31	EK15A-01.3.2.1	The regulating handle		1
32	EK15A-01.3.6	The connection pin		1
33	GB/T 91-2000	Cotter pin	Φ3.2×28	1
34	EK15A-01.3.1	Direction string welding		1
35	GB/T 5780-2000	Hexagonal head bolt	M14×130	1
36	EK15A-01.3.5	Limit block of bolt		1
37	GB/T 70.2-2000	Hexagon socket head screw	M6×16	2

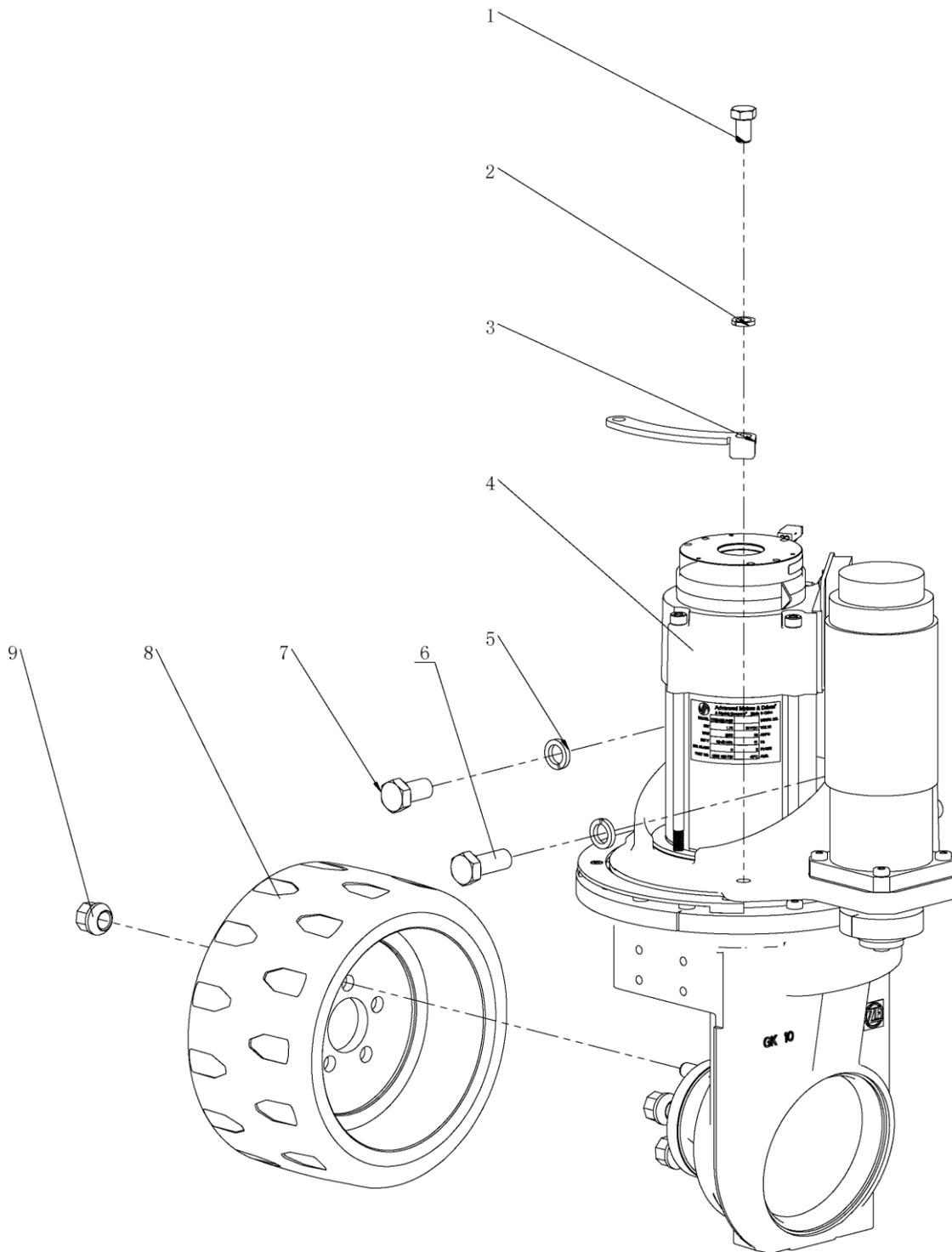
1.5 Running brake



1.5 Running brake

The serial number	Code name	The name of the		The number of
1		Solid slab		1
2	EK15A-01.4.2	The brake pedal		1
3		Brake pump		1
4	GB/T 41-2000	Hexagonal nut	M10	2
5	GB/T 93-1987	Elastic washer	Φ10	2
6	GB/T 5781-2000	Hexagon head bolt full thread	M10×35	2
7	EK15A-01.4.5	spring		1
8	GB/T 91-2000	Cotter pin	Φ3.2×28	1
9	EK15A-01.4.4	Fork lever pin		1
10	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
11	EK15A-01.4.3	Foot brake lug shaft		1
12	EK15A-01.4.1	Bracket welded		1
13	GB/T 5781-2000	Hexagon head bolt full thread	M8×35	1
14	GB/T 41-2000	Hexagonal nut	M8	1
15	TY-01.35	Micro switch RZ-15GQ22-B3		1

1.6 The drive assembly

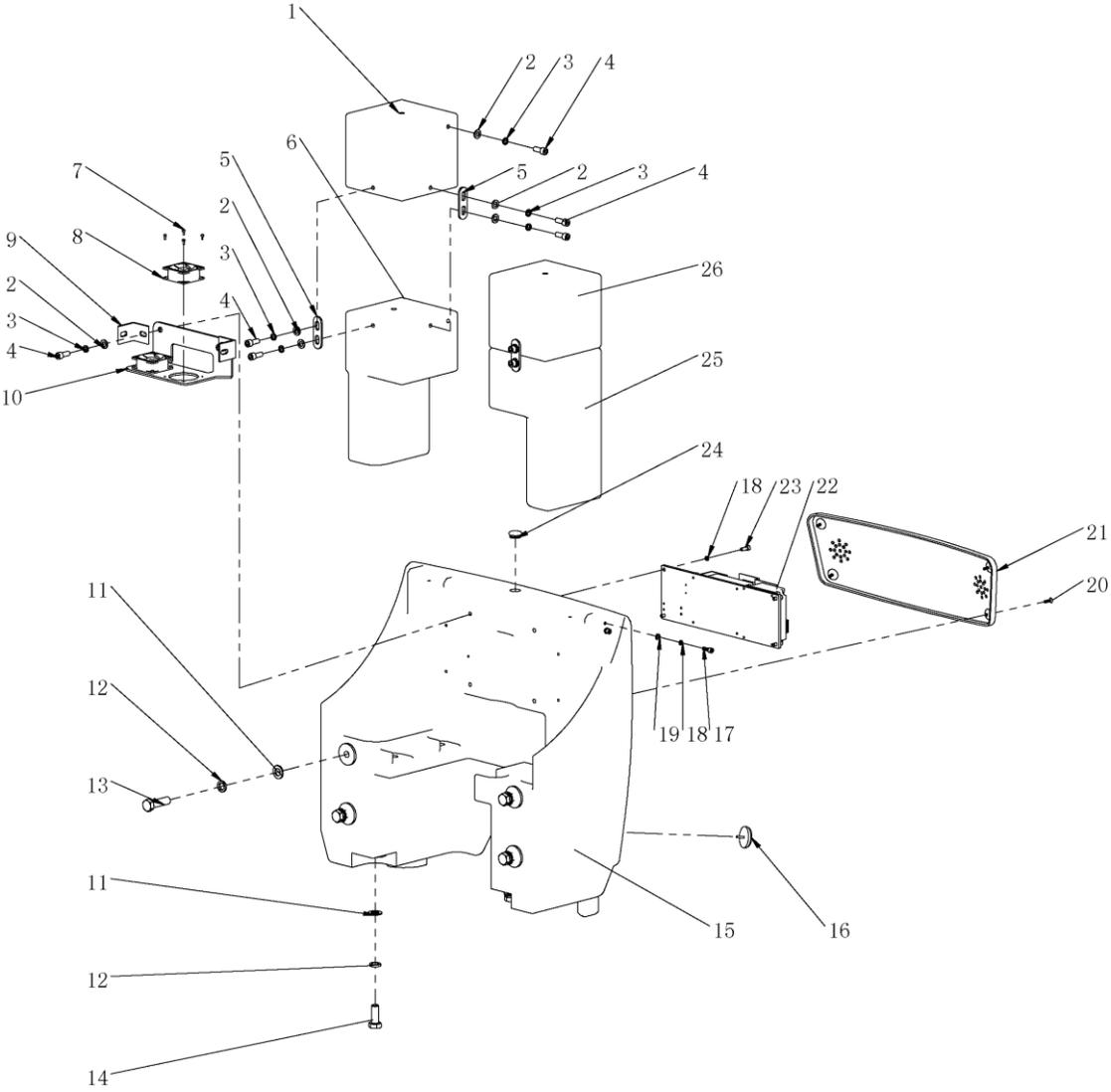


1.6 The drive assembly

The serial number	Code name	The name of the		The number of
1	GB/T 5786-2000	Hexagon head bolt fine thread	M12×1×20	1
2	GB/T 93-1987	Elastic washer	Φ12	1
3	EK15A-01.17.1	Proximity switch bracket		1
4	GK10LD	The drive assembly	1.7KW	1
5	GB/T 93-1987	Elastic washer	Φ16	4
6	GB/T 5783-2000	Hexagon head bolt full thread	M16×30	2
7	GB/T 5783-2000	Hexagon head bolt full thread	M16×40	2
8	Φ9.8×5	The driving wheel (Φ 2.76)		1
9		Big wheel nut	M14	5

2.Counterweight assembly

2.1 The counterweight assembly

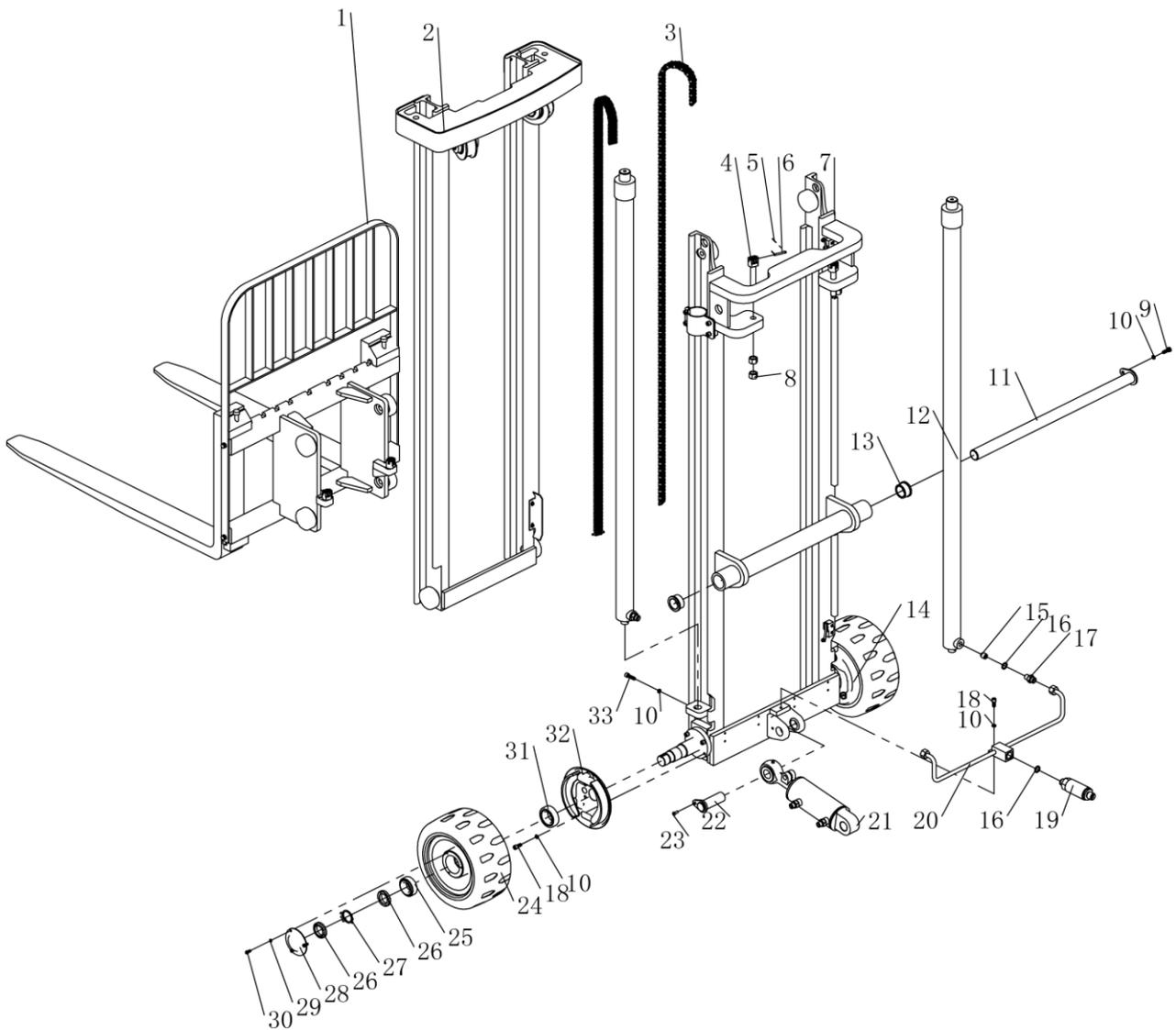


2.1 The counterweight assembly

The serial number	Code name	The name of the		The number of
1	EK15A-02.6	3307 pounds side weight	TH100	1
2	GB/T 95-2002	Flat washer	Φ12	12
3	GB/T 93-1987	Elastic washer	Φ12	12
4	GB/T 70.1-2000	Hexagon socket head screw	M12×30	12
5	E15-02.9	Counter plate		4
6	E15-02.4	Side of the counter weight		1
7	GB/T 70.1-2000	Hexagon socket head screw	M4×10	8
8	MGA8024ZB-025	fan	80×80	2
9	EK15A-01.26	Fixed Angle	2.4×2.4×0.2	2
10	EK15A-02.14	Cooling fan panel		1
11	GB/T 97.2-1985	Flat washer	Φ20	6
12	GB/T 93-1987	Elastic washer	Φ20	6
13	GB/T 5782-2000	Hexagonal head bolt	M20×70	4
14	GB/T 5781-2000	Hexagon head bolt full thread	M20×50	2
15	EK15A-02.3B	Weight of three fulcrum		1
16	XH6-4-00	Reflex reflector		2
17	GB/T 70.1-2000	Hexagon socket head screw	M8×25	4
18	GB/T 93-1987	Elastic washer	Φ8	8
19	GB/T 97.2-1985	Flat washer	Φ8	4
20	GB 973-1976	Large flat head cross screw		4
21	EK15A-02.8	After the cover		1
22	EK15A-02.10	The main board		1
23	GB/T 70.1-2000	Hexagon socket head screw	M8×20	4
24	E20.8-1	Anti-shock pad		1
25	EK15A-02.5	Side weight block to the right		1
26	EK15A-02.7	Weight 3307 to the right	M5	2

3.Lifting system

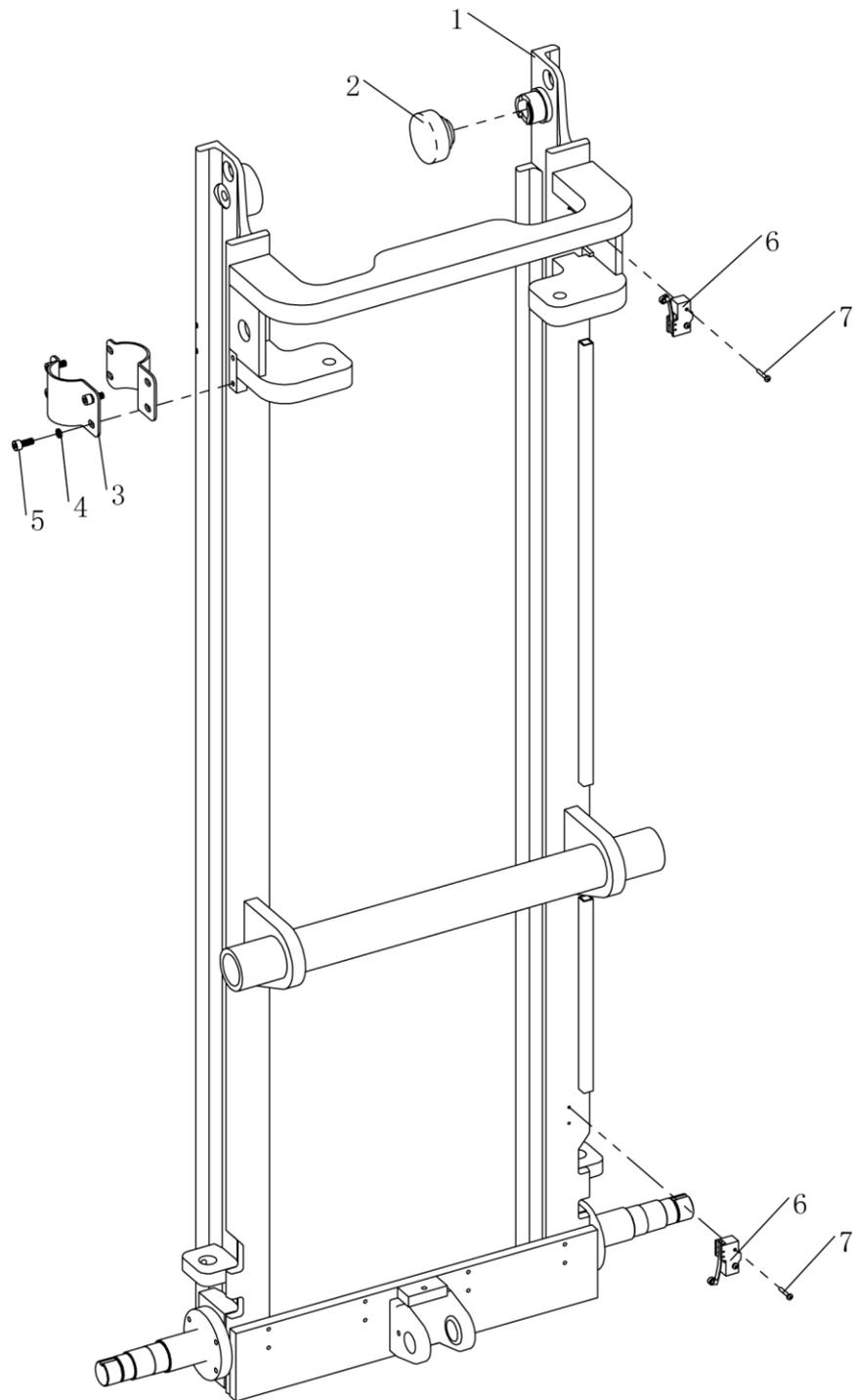
3.1 Two - piece portal frame assembly



3.1 Two - piece portal frame assembly

The serial number	Code name	The name of the		The number of
1	EK15A-03.3	Carriage components		1
2	EK15A-03.2	Interior door frame assembly		1
3	LH0866	Plate chain		2
4	E18.02-4	Chain bolt		2
5	GB/T 91-2000	Cotter pin	Φ1.2×18	8
6	GB 880-86	Perforated pin	Φ5×40	4
7	EK15A-03.1	Outside portal frame assembly		1
8	GB/T 41-2000	Hexagonal nut	M16	4
9	GB/T 5781-2000	Hexagonal head bolt	M8×25	1
10	GB/T 93-1987	Elastic washer	Φ8	12
11	EK15A-03.7	Shaft welding		1
12	EK15A-03.4	Lift cylinder assembly		2
13	EK15A-03.10	The door bracket is connected with the brass sleeve		2
14	S11-3502020	Brake assembly right		1
15	E12.4.3	Riot valve		1
16	GB982-77	Combination gasket	Φ16	3
17	EK15A-01.8.7	Directly to the head		2
18	GB/T 70.1-2000	Hexagon socket head screw	M8×20	9
19	XSF-F16L-60-3T	The speed limit valve	1.5T	1
20	EK15A-03.9	Steel pipe		1
21	EK15A-03.5	Tilt cylinder assembly		1
22	EK15A-01.6	Welding of tilting cylinder pin shaft		1
23	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
24	Φ305X140	Rubber wheel		2
25	GB/T 297-94	Taper roller bearing	33007	2
26	GB/T 812-1988	Round nut	M35×1.5	4
27	GB 858-1988	The round nut USES a stop washer	Φ35	2
28	EK15A-03.11	The front wheel side cover		2
29	GB/T 93-1987	Elastic washer	Φ6	6
30	GB/T 65-2000	Slotted cylinder head screw	M6×14	6
31	GB/T 297-94	Taper roller bearing	33008	2
32	S11-3502020	Brake assembly left		1
33	GB/T 70.1-2000	Hexagon socket head screw	M8×30	2

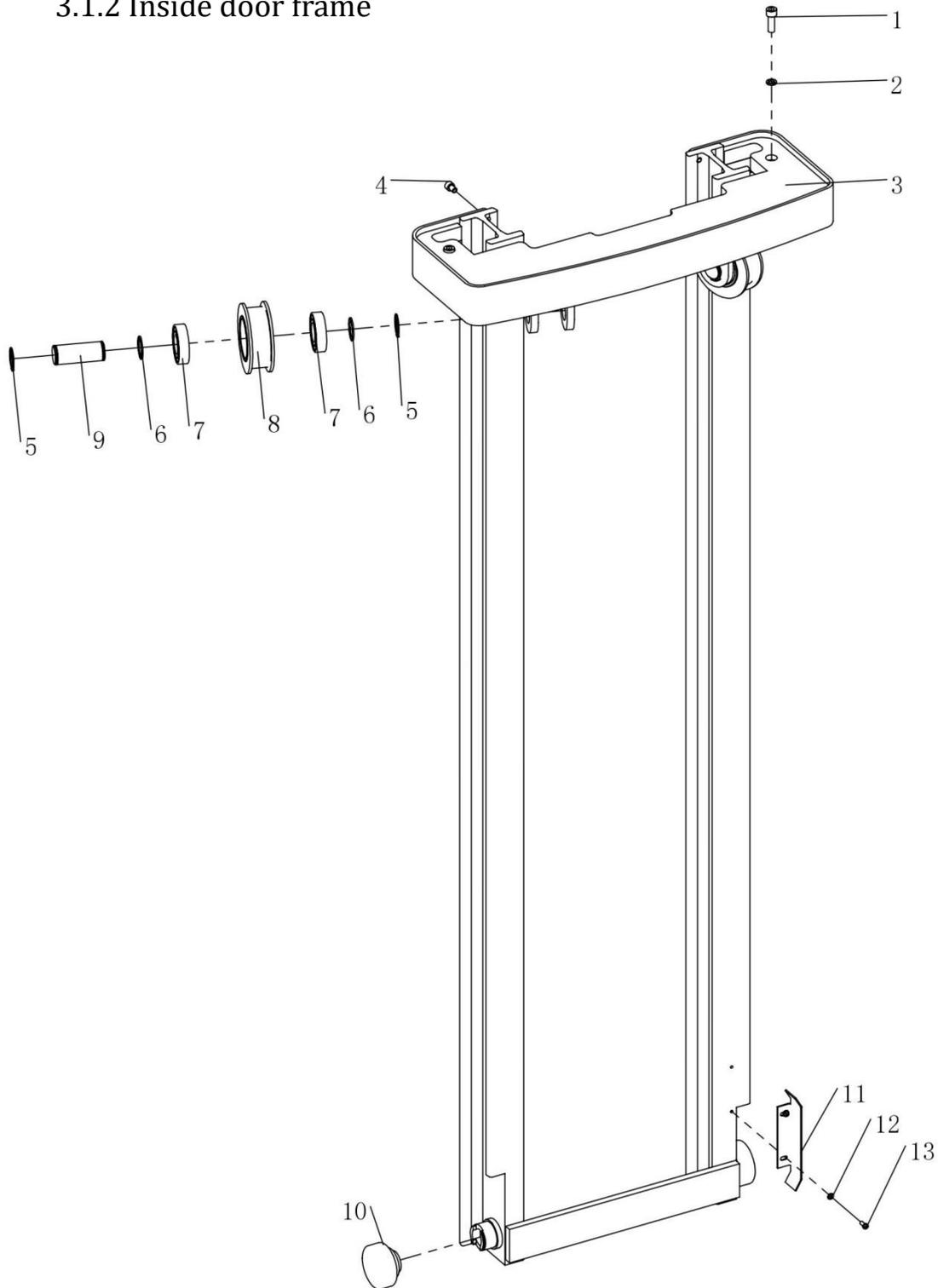
3.1.1 External door frame



3.1.1 External door frame

The serial number	Code name	The name of the		The number of
1	EK15A-03.1.1	Outside frame welding		1
2	CRA70.4-4S	Composite roller		2
3	EK15A-03.1.4	Oil cylinder hoop		4
4	GB/T 93-1987	Elastic washer	Φ8	8
5	GB/T 70.1-2000	Hexagon socket head screw	M8×20	8
6	TY-01.35	Micro switch	RZ-15GW2S-B3	2
7	GB/T 818-2000	Cross slotted head screw	M4×25	4

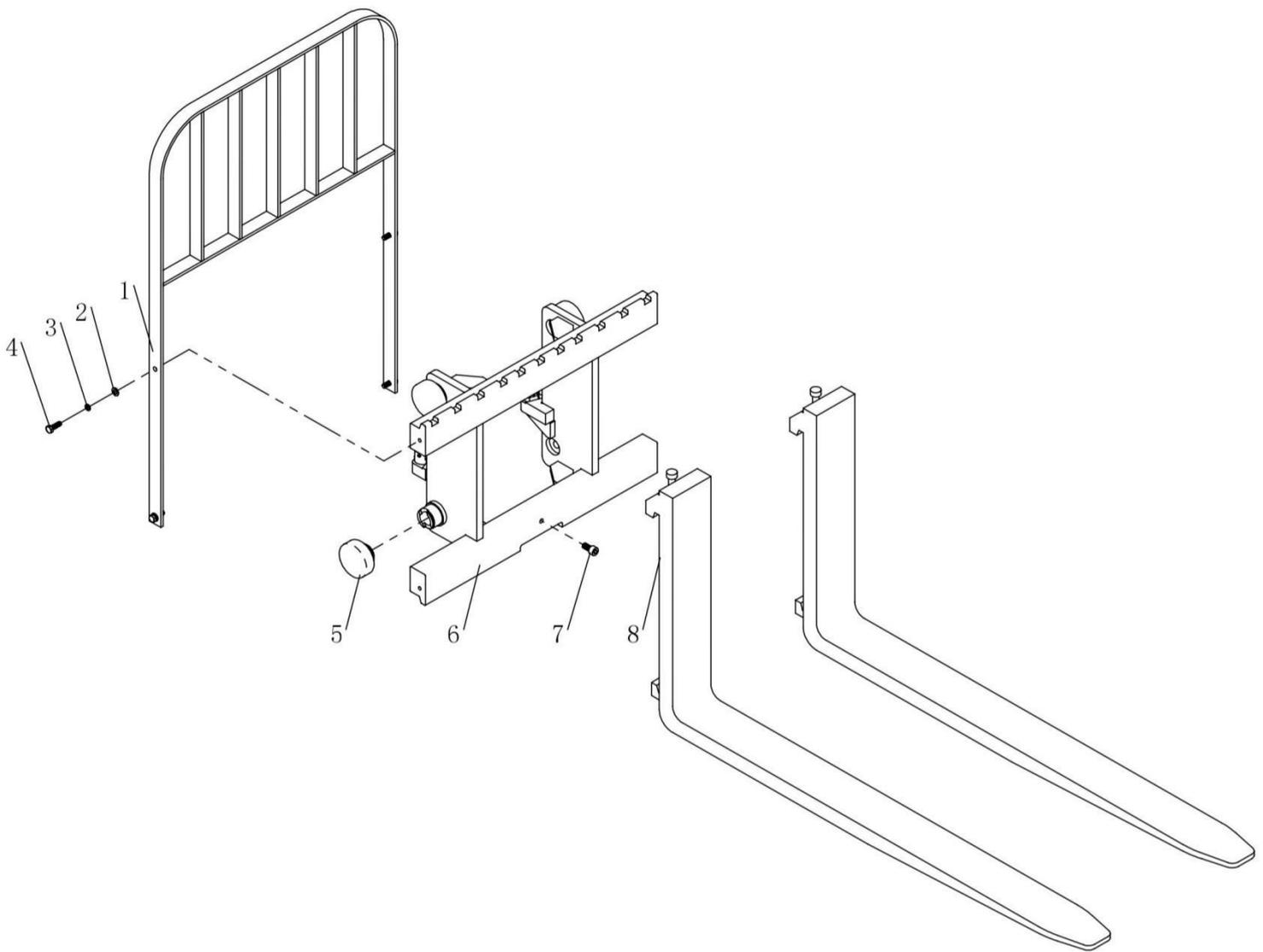
3.1.2 Inside door frame



3.1.2 Inside door frame

The serial number	Code name	The name of the		The number of
1	GB/T 70.1-2000	Hexagon socket head screw	M10×20	2
2	GB/T 93-1987	Elastic washer	Φ10	2
3	EK15A-03.2.1	The inner door frame is welded		1
4	GB/T 70.1-2000	Hexagon socket head screw	M8×12	2
5	GB 894.1-86	The shaft USES an elastic retainer	Φ30	4
6	E20.03.3-8	liner		4
7	GB/T 276-94	Deep groove ball bearing	6206-2Z	4
8	E20.03.3-5	Sprocket A		2
9	E20.03.3-6	Sprocket shaft		2
10	CRA70.4-4S	Composite roller		2
11	EK15A-03.2.2	The limit board		1
12	GB/T 95-2002	Flat washer	Φ5	2
13	GB/T 818-2000	Cross slotted head screw	M5×12	2

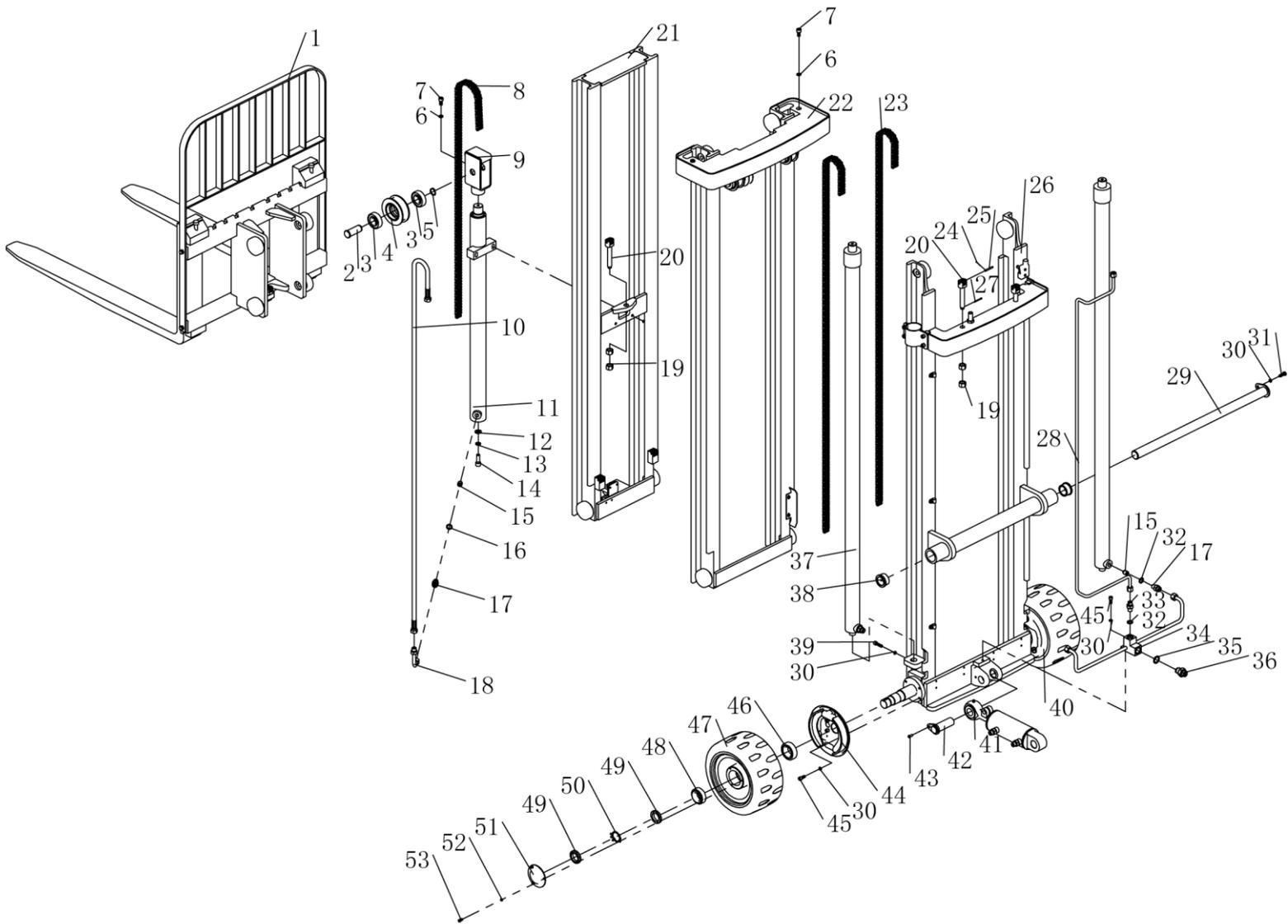
3.1.3 Carriage components



3.1.3 Carriage components

The serial number	Code name	The name of the		The number of
1	EK15A-03.3.2	Guardrail welded		1
	EK15A-03.8.2	Guardrail welded	1.5T	1
2	GB/T 95-2002	Flat washer	Φ8	4
3	GB/T 93-1987	Elastic washer	Φ8	4
4	GB/T 5781-2000	Hexagonal head bolt	M8×25	4
5	CRA70.4-4S	Composite roller		4
6	EK15A-03.3.1	Carriage welded		1
	EK15A-03.8.1	Carriage welded	1.5T	1
7	GB/T 70.1-2000	Hexagon socket head screw	M10×20	1
8	EK13.06.04-5	Pallet fork		2

3.2 Three - section fully free door frame assembly

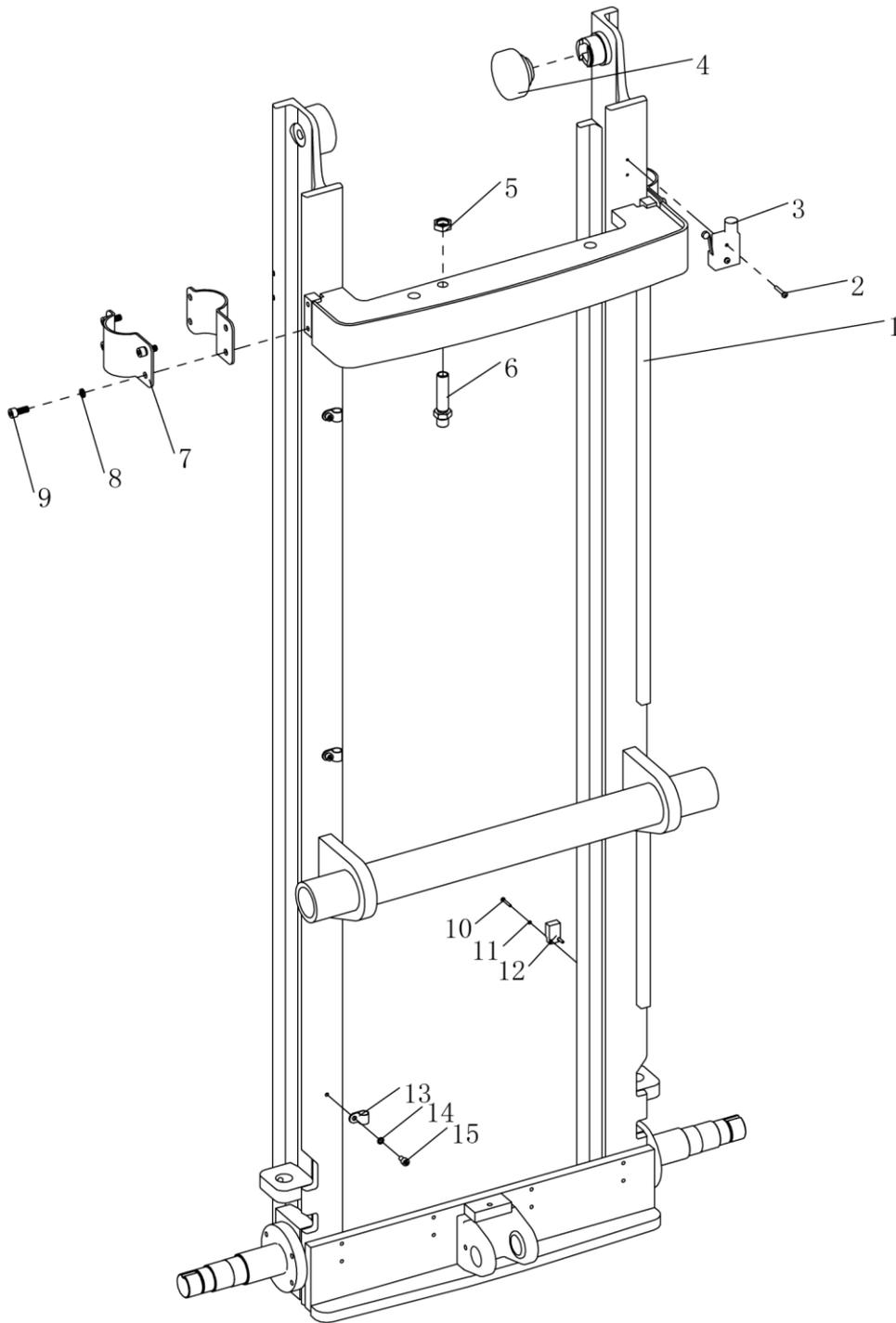


3.2 Three - section fully free door frame assembly

The serial number	Code name	The name of the		The number of
1	EK15A-07.4	Carriage components		1
2	E12.02-09	Sprocket shaft		1
3	GB/T 276-94	Deep groove ball bearing	6305-2Z	2
4	E20.03.3-5	Sprocket A		1
5	GB 894.1-86	The shaft USES an elastic retainer	Φ25	1
6	GB/T 93-1987	Elastic washer	Φ10	3
7	GB/T 70.1-2000	Hexagon socket head screw	M10×20	3
8	LH0866	Plate chain	Section 93	1
9	E18.02.07	Sprocket frame welded		1
10	EK15A-07.9	High pressure hose		1
11	EK15A-07.5	Front jack		1
12	GB/T 95-2002	Flat washer	Φ12	1
13	GB/T 93-1987	Elastic washer	Φ12	1
14	GB/T 70.1-2000	Hexagon socket head screw	M12×35	1
15	EB12E.4.3	Riot valve		3
16	GB982-77	Combination gasket	Φ16	1
17	EK15A-03.4.1	Directly to the head		3
18	EK15A-07.11	Steel tube (2)		1
19	GB/T 41-2000	Hexagonal nut	M16	6
20	E20.02-4	Chain bolt		3
21	EK15A-07.3	Interior door frame assembly		1
22	EK15A-07.2	Middle portal frame assembly		1
23	LH0866	Plate chain	Section 137	2
24	GB/T 91-2000	Cotter pin	Φ1.2×18	12
25	GB 880-86	Perforated pin	Φ5×40	6
26	EK15A-07.1	Outside portal frame assembly		1
27	GB/T 91-2000	Cotter pin	Φ3×30	3
28	EK15A-07.7	Steel pipe (3)		1
29	EK15A-03.7	Shaft welding		1
30	GB/T 93-1987	Elastic washer	Φ8	12
31	GB/T 5781-2000	Hexagonal head bolt	M8×25	1
32	GB982-77	Combination gasket	Φ16	3
33	E20.05.1-4	Directly to the head		1
34	EK15A-07.10	Steel tube (1)		1
35	GB982-77	Combination gasket	Φ20	1

36	EK15A-01.11.8	Through joint		1
37	EK15A-07.6	Rear jack cylinder assembly		2
38	EK15A-03.10	The door bracket is connected with the brass sleeve		2
39	GB/T 70.1-2000	Hexagon socket head screw	M8×30	2
40	S11-3502020	Brake assembly right		1
41	EK15A-03.5	Tilt cylinder assembly		1
42	EK15A-01.6	Welding of tilting cylinder pin shaft		1
43	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
44	S11-3502020	Brake assembly left		1
45	GB/T 70.1-2000	Hexagon socket head screw	M8×20	9
46	GB/T 297-94	Taper roller bearing	33008	2
47	305X140	Rubber wheel		2
48	GB/T 297-94	Taper roller bearing	33007	2
49	GB/T 812-1988	Round nut	M35×1.5	4
50	GB 858-1988	The round nut USES a stop washer	Φ35	2
51	EK15A-03.11	The front wheel side cover		2
52	GB/T 93-1987	Elastic washer	Φ6	6
53	GB/T 65-2000	Slotted cylinder head screw	M6×14	6

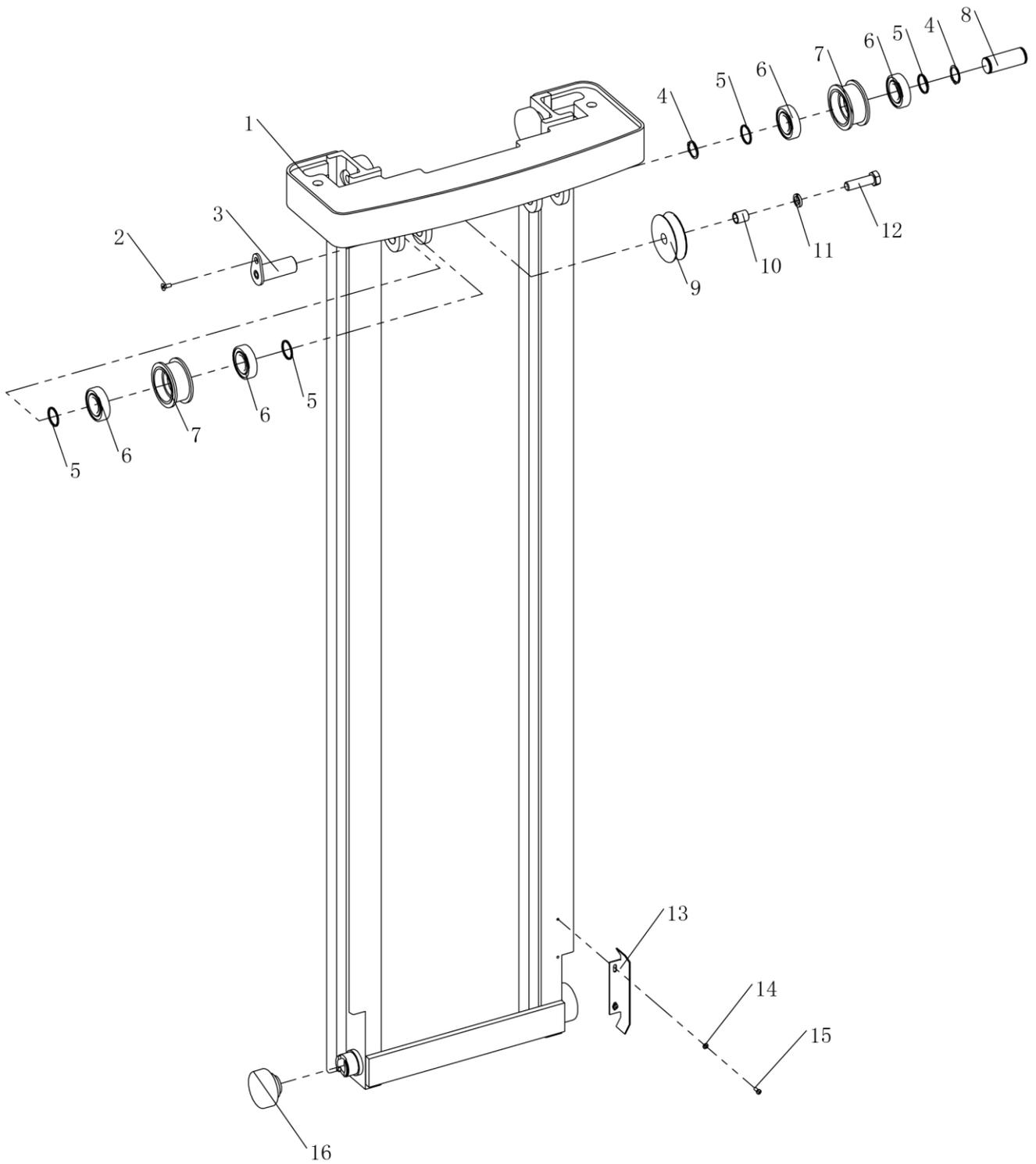
3.2.1 Outer door frame assembly (three sections free)



3.2.1 Outer door frame assembly (three sections free)

The serial number	Code name	The name of the		The number of
1	EK15A-07.1.1	Outside frame welding		1
2	GB/T 818-2000	Cross slotted head screw	M4×25	2
3	TY-01.35	Micro switch	RZ-15GW2S-B3	1
4	CRA70.4-4S	Composite roller		2
5	GB/T 6173-2000	Thin hexagonal nut thin teeth	M16×1.5	1
6	EK15A-06.1.2	joint		1
7	EK15A-03.1.4	Oil cylinder hoop		4
8	GB/T 93-1987	Elastic washer	Φ8	8
9	GB/T 70.1-2000	Hexagon socket head screw	M8×20	8
10	GB/T 818-2000	Cross slotted head screw	M3×20	2
11	GB/T 93-1987	Elastic washer	Φ3	2
12	TY-01.38	Proximity switch	CLJF20-05FA	1
13		Tubing clamp	Φ12	3
14	GB/T 93-1987	Elastic washer	Φ6	3
15	GB/T 70.1-2000	Hexagon socket head screw	M6×10	3

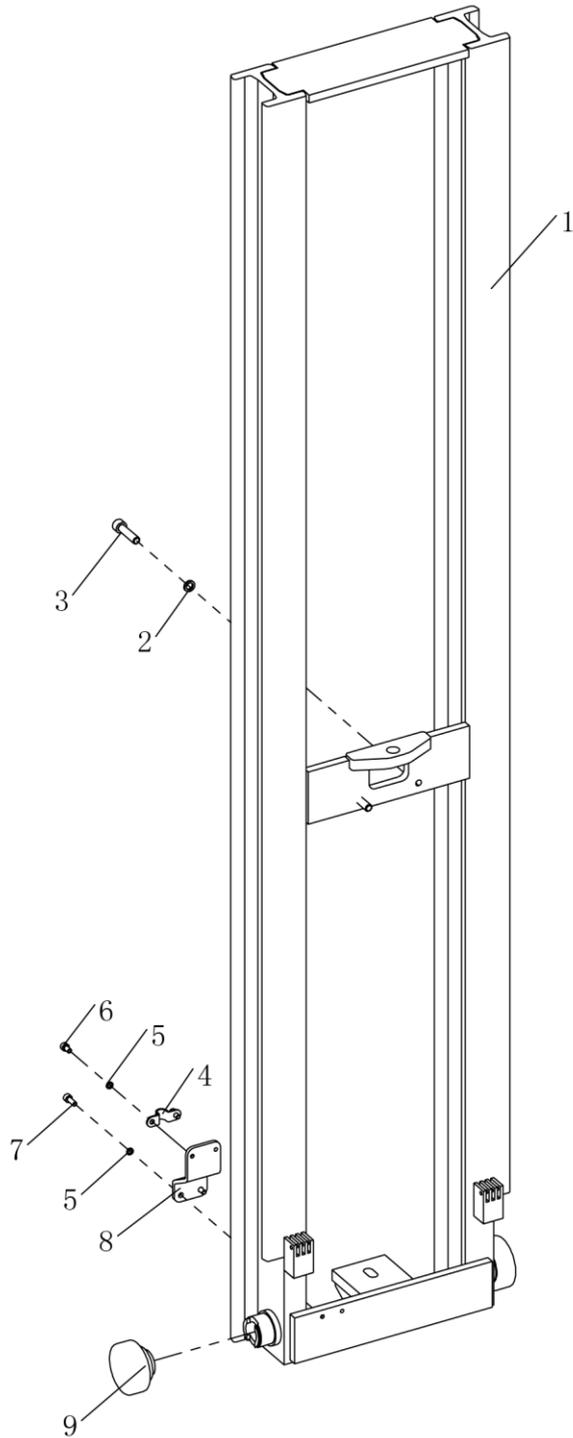
3.2.2 Middle portal frame assembly (three sections free)



3.2.2 Middle portal frame assembly (three sections free)

The serial number	Code name	The name of the		The number of
1	EK15A-07.2.1	Middle frame welding		1
2	GB/T 70.3-2000	Hexagon socket head screw	M6×16	1
3	EK15A-07.2.2	Sprocket shaft welding		1
4	GB 894.1-86	The shaft USES an elastic retainer	Φ30	2
5	EB20D.03.3-8	liner		4
6	GB/T 276-94	Deep groove ball bearing	6206-2Z	4
7	E20.03.2-7	Sprocket B		2
8	E20.03.3-6	Sprocket shaft		1
9	E12.02-10	The pulley		1
10	EK15A-07.2.3	Pulley casing		1
11	GB/T 93-1987	Elastic washer	Φ16	1
12	GB/T 5781-2000	Hexagonal head bolt	M16×55	1
13	EK15A-03.2.2	The limit board		1
14	GB/T 95-2002	Flat washer	Φ5	2
15	GB/T 818-2000	Cross slotted head screw	M5×12	2
16	CRA70.4-4S	Composite roller		4

3.2.3 Inner door frame assembly (three sections free)



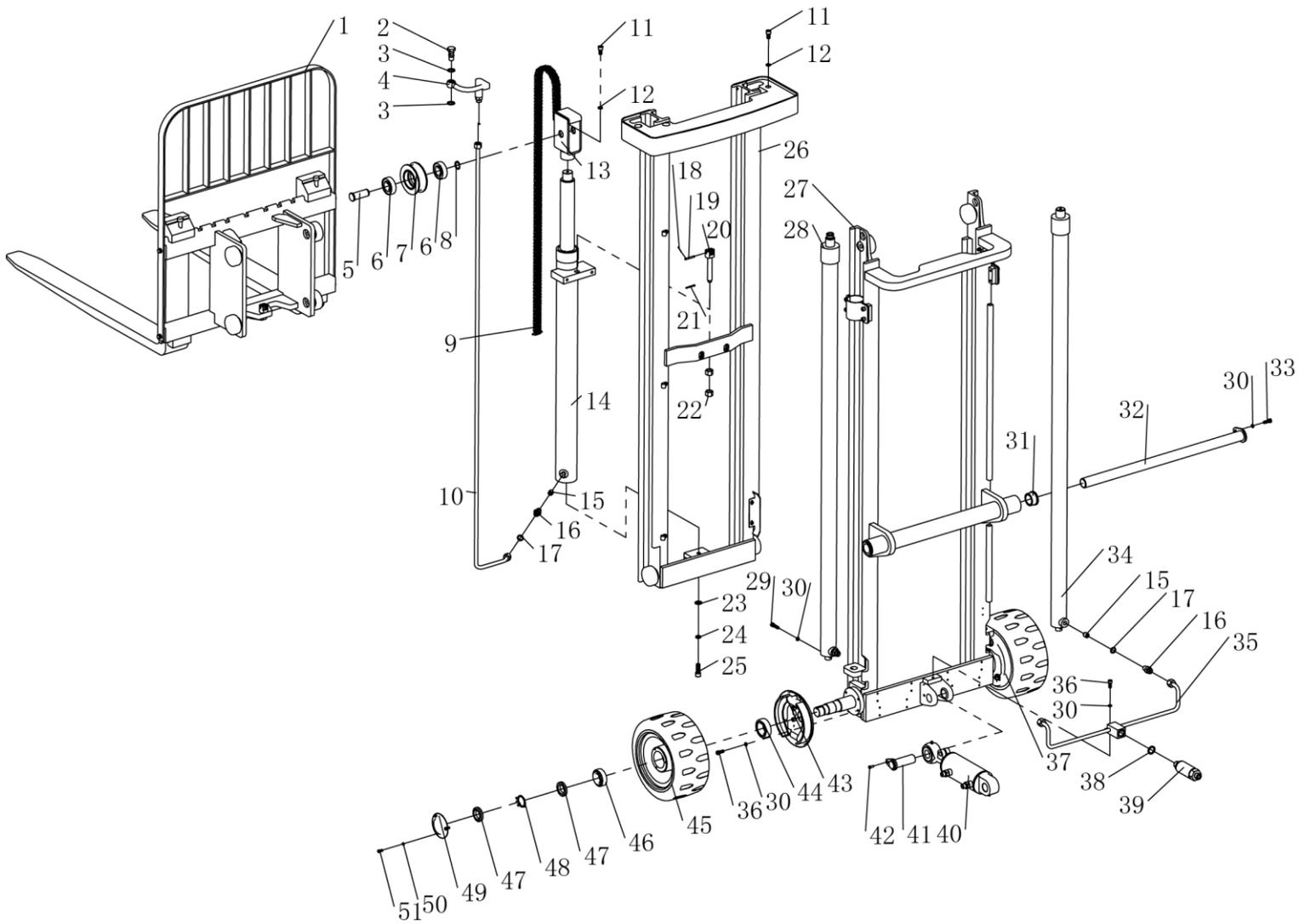
3.2.3 Inner door frame assembly (three sections free)

The serial number	Code name	The name of the		The number of
1	EK15A-07.3.1	The inner door frame is welded		1
2	GB/T 93-1987	Elastic washer	Φ10	2
3	GB/T 70.1-2000	Hexagon socket head screw	M10×40	2
4		Ride hoop	Φ12	1
5	GB/T 93-1987	Elastic washer	Φ6	4
6	GB/T 70.1-2000	Hexagon socket head screw	M6×10	2
7	GB/T 70.1-2000	Hexagon socket head screw	M6×16	2
8	EK15A-07.3.2	Steel tube mounting plate		1
9	CRA70.4-4S	Composite roller		2

3.2.4 Sliding member (three sections free)

The serial number	Code name	The name of the		The number of
1	EK15A-03.3.2	Guardrail welded		1
	EK15A-03.8.2	Guardrail welded	1.5T	1
2	GB/T 95-2002	Flat washer	Φ8	4
3	GB/T 93-1987	Elastic washer	Φ8	4
4	GB/T 5781-2000	Hexagonal head bolt	M8×25	4
5	CRA70.4-4S	Composite roller		4
6	EK15A-07.4.1	Carriage welded		1
	EK15A-03.8.1	Carriage welded	1.5T	1
7	GB/T 70.1-2000	Hexagon socket head screw	M10×20	1
8	E13.06.04-5	Pallet fork		2

3.3 Two - section fully free door frame assembly

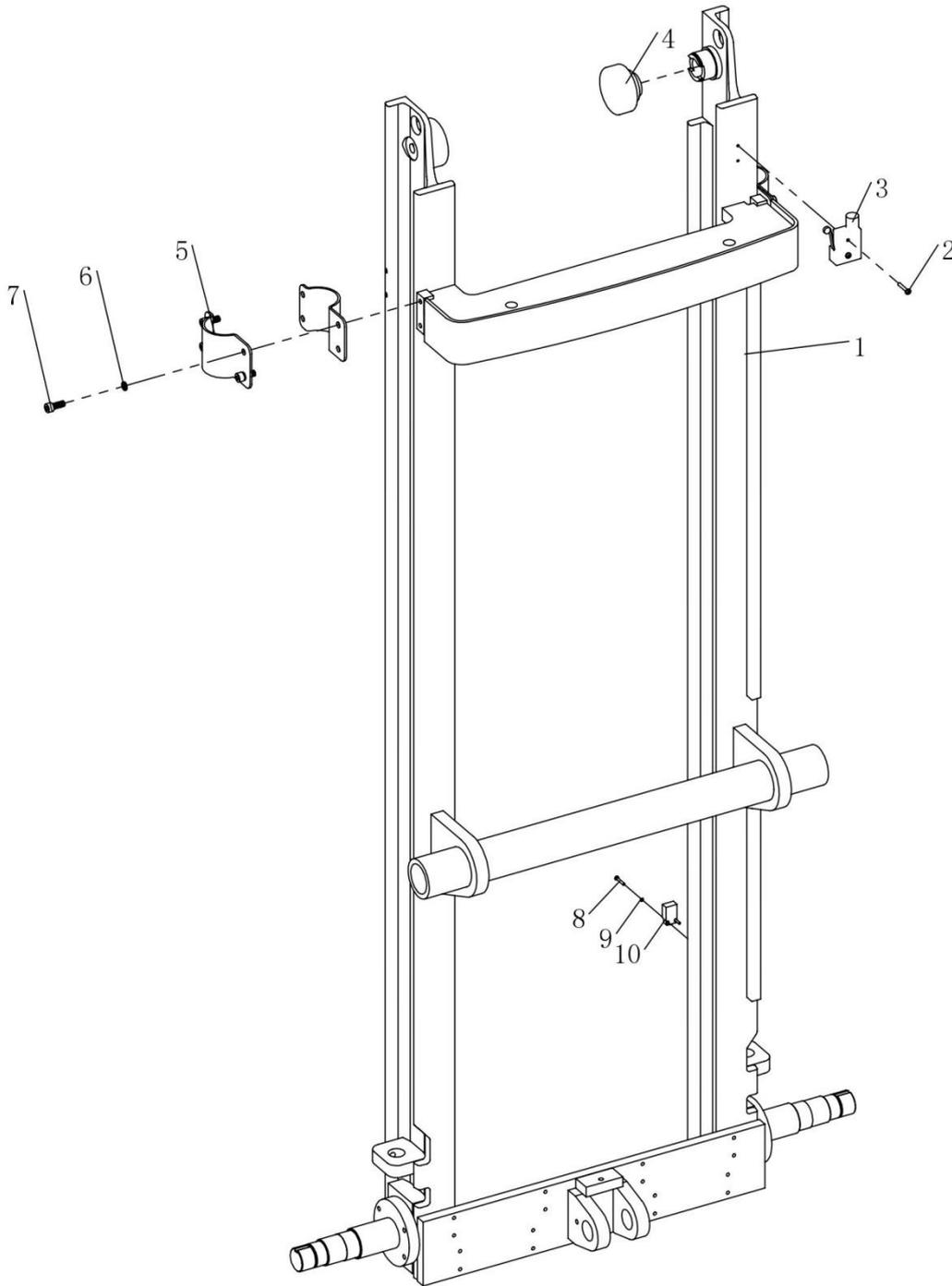


3.3 Two - section fully free door frame assembly

The serial number	Code name	The name of the		The number of
1	EK15A-08.3	Carriage components		1
2	A.8-11	Pump station tubing connection		1
3	GB982-77	Combination gasket	Φ18	2
4	EK15A-08.6	The hydraulic pipe		1
5	E2E.02-09	Sprocket shaft		1
6	GB/T 276-94	Deep groove ball bearing	6305-2Z	2
7	B20.03.3-5	Sprocket A		1
8	GB 894.1-86	The shaft USES an elastic retainer	Φ25	1
9	LH0866	Plate chain		1
10	EK15A-08.7	High-pressure tubing		1
11	GB/T 70.1-2000	Hexagon socket head screw	M10×20	2
12	GB/T 93-1987	Elastic washer	Φ10	2
13	B20.02.07	Sprocket frame welded		1
14	EK15A-08.5	Front jack		1
15	B12.4.3	Riot valve		3
16	EK15A-03.4.1	Directly to the head		3
17	GB982-77	Combination gasket	Φ16	3
18	GB/T 91-2000	Cotter pin	Φ1.2×18	4
19	GB 880-86	Perforated pin	Φ5×40	2
20	B20.02-4	Chain bolt		1
21	GB/T 91-2000	Cotter pin	Φ3×30	1
22	GB/T 41-2000	Hexagonal nut	M16	2
23	GB/T 95-2002	Flat washer	Φ12	1
24	GB/T 93-1987	Elastic washer	Φ12	1
25	GB/T 70.1-2000	Hexagon socket head screw	M12×35	1
26	EK15A-03.2	Interior door frame assembly		1
27	EK15A-03.1	Outside portal frame assembly		1
28	EK15A-08.4	Lift cylinder assembly		1
29	GB/T 70.1-2000	Hexagon socket head screw	M8×30	2
30	GB/T 93-1987	Elastic washer	Φ8	12
31	EK15A-03.10	The door bracket is connected with the brass sleeve		2
32	EK15A-03.7	Shaft welding		1

33	GB/T 5781-2000	Hexagonal head bolt	M8×25	1
34	EK15A-08.8	Lift cylinder assembly		1
35	EK15A-03.9	Steel pipe		1
36	GB/T 70.1-2000	Hexagon socket head screw	M8×20	9
37	S11-3502020	Brake assembly right		1
38	GB982-77	Combination gasket	Φ20	1
39	XSF-F16L-60-3T	The speed limit valve	1.5T	1
40	EK15A-03.5	Tilt cylinder assembly		1
41	EK15A-01.6	Welding of tilting cylinder pin shaft		1
42	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
43	S11-3502020	Brake assembly left		1
44	GB/T 297-94	Taper roller bearing	33008	2
45	305X140	Rubber wheel		2
46	GB/T 297-94	Taper roller bearing	33007	2
47	GB/T 812-1988	Round nut	M35×1.5	4
48	GB 858-1988	The round nut USES a stop washer	Φ35	2
49	EK15A-03.11	The front wheel side cover		2
50	GB/T 93-1987	Elastic washer	Φ6	6
51	GB/T 65-2000	Slotted cylinder head screw	M6×14	6

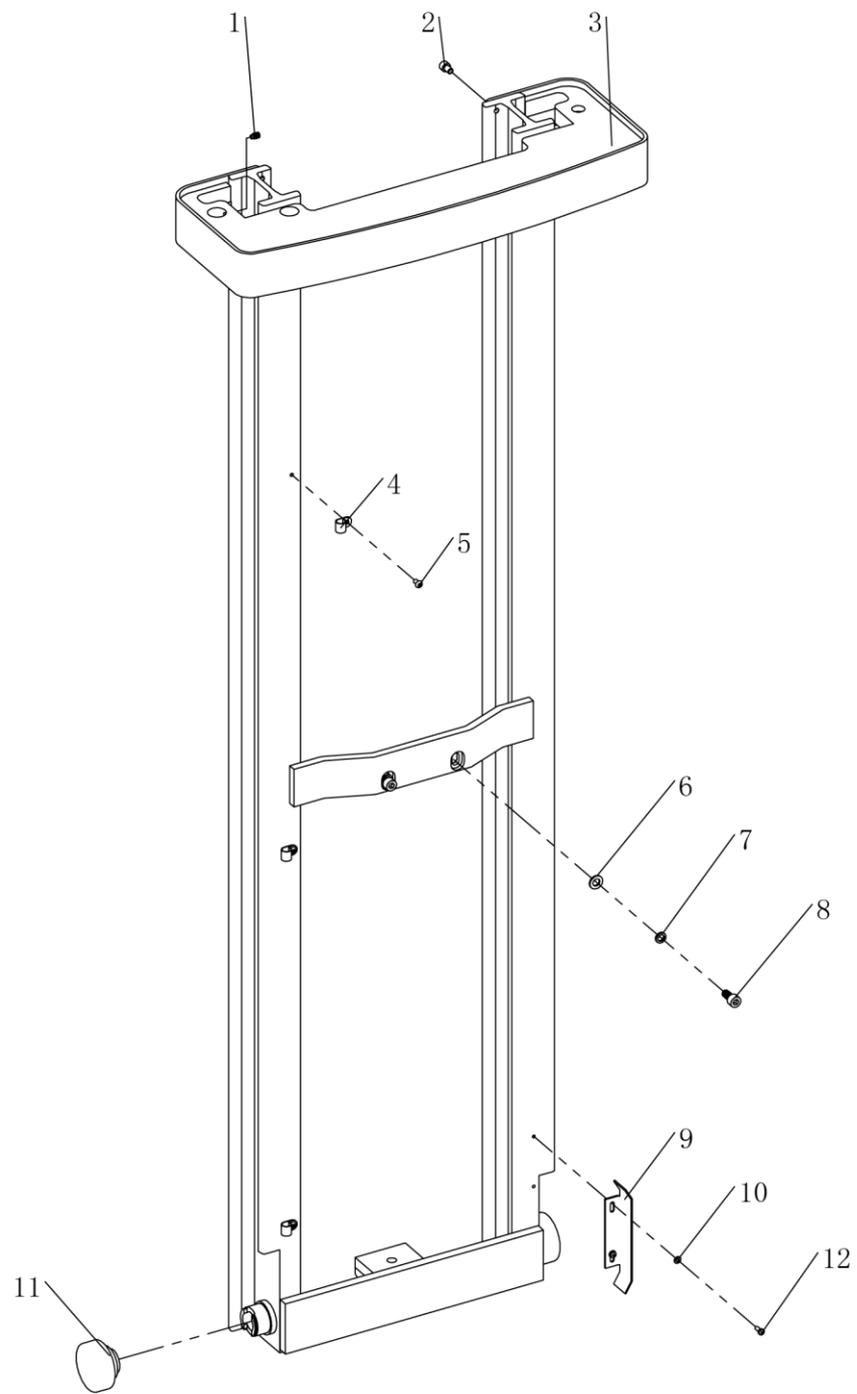
3.3.1 Outer door frame assembly (two free sections)



3.3.1 Outer door frame assembly (two free sections)

The serial number	Code name	The name of the		The number of
1	GB/T 818-2000	Cross slotted head screw	M4×25	2
2	TY-01.35	Micro switch (long)	RZ-15GW2S-B3	1
3	EK15A-08.1.1	Outside frame welding		1
4	CRA70.4-4S	Composite roller		2
5	EK15A-03.1.4	Oil cylinder hoop		4
6	GB/T 93-1987	Elastic washer	Φ8	8
7	GB/T 70.1-2000	Hexagon socket head screw	M8×20	8

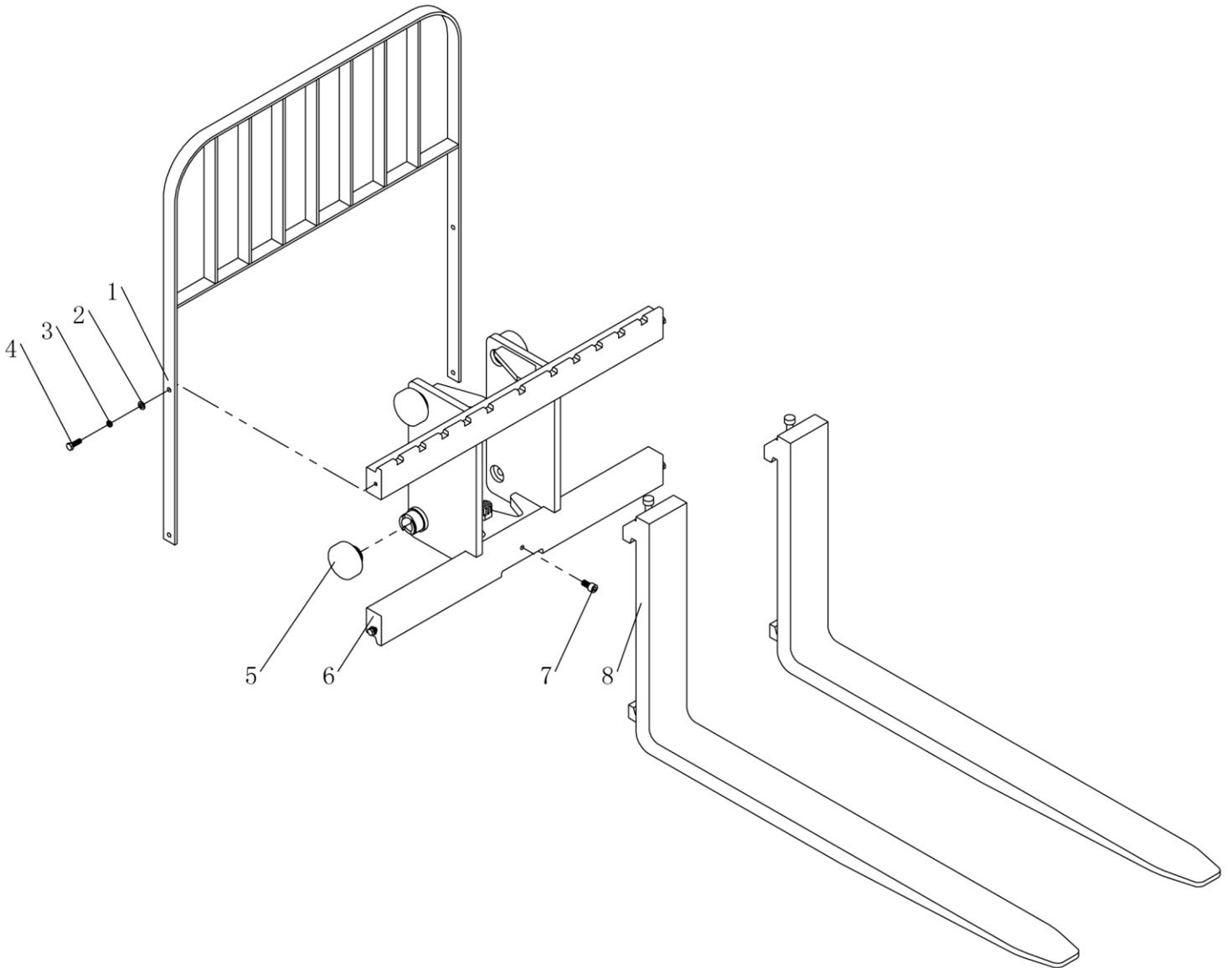
3.3.2 Inner door frame assembly (two free sections)



3.3.2 Inner door frame assembly (two free sections)

The serial number	Code name	The name of the		The number of
1	GB/T 79-2000	Inner hexagon cylinder end set screw	M8×12	1
2	GB/T 70.1-2000	Hexagon socket head screw	M8×12	2
3	EK15A-08.2.1	The inner door frame is welded		1
4		Tubing clamp	Φ12	3
5	GB/T 70.2-2000	Hexagon socket head screw	M6×10	3
6	GB/T 95-2002	Flat washer	Φ10	2
7	GB/T 93-1987	Elastic washer	Φ10	2
8	GB/T 70.1-2000	Hexagon socket head screw	M10×20	2
9	EK15A-03.2.2	The limit board		1
10	GB/T 95-2002	Flat washer	Φ5	2
11	CRA70.4-4S	Composite roller		2
12	GB/T 818-2000	Cross slotted head screw	M5×12	2

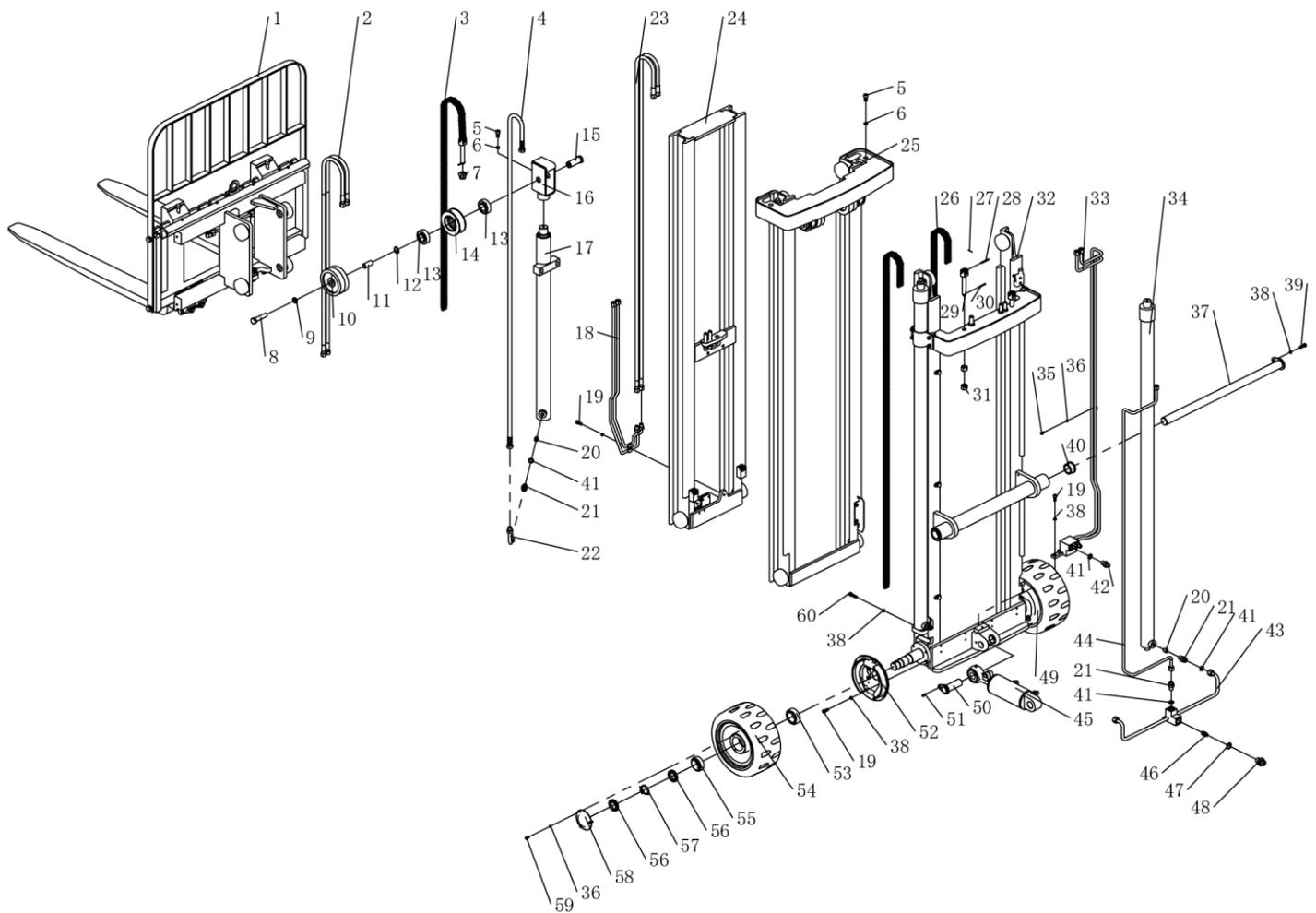
3.3.3 Sliding member (two free)



3.3.3 Sliding member (two free)

The serial number	Code name	The name of the		The number of
1	EK15A-03.3.2	Guardrail welded		1
	EK15A-03.8.2	Guardrail welded	1.5T	1
2	GB/T 95-2002	Flat washer	Φ8	4
3	GB/T 93-1987	Elastic washer	Φ8	4
4	GB/T 5781-2000	Hexagonal head bolt	M8×25	4
5	CRA70.4-4S	Composite roller		4
6	EK15A-08.3.1	Carriage welded		1
	EK15A-03.8.1	Carriage welded	1.5T	1
7	GB/T 70.1-2000	Hexagon socket head screw	M10×20	1
8	EK13.06.04-5	Pallet fork		2

3.4 Three - section fully free side door frame assembly

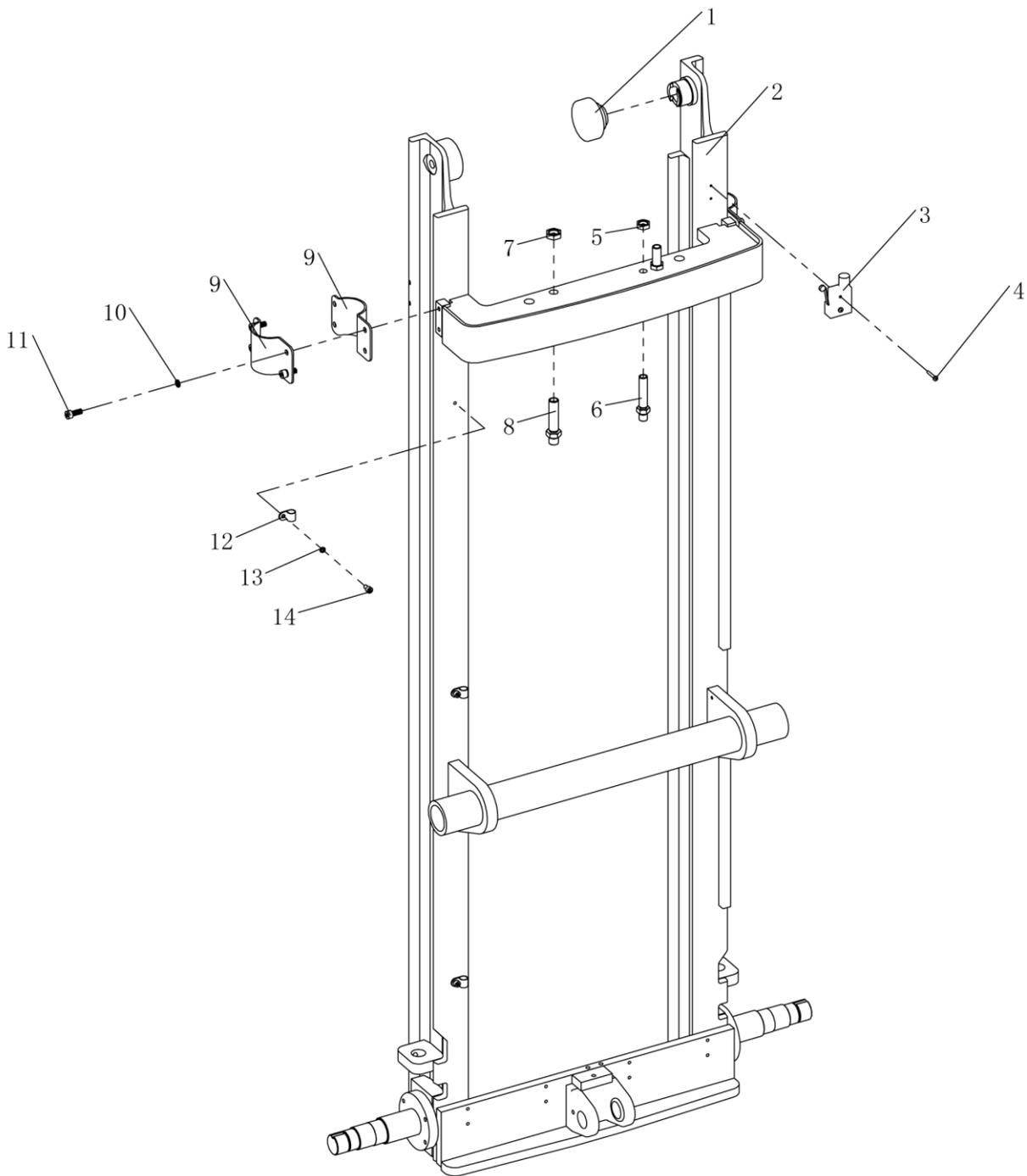


3.4 Three - section fully free side door frame assembly

The serial number	Code name	The name of the		The number of
1	EK15A-09.4	Carriage components		1
2	EK15A-09.8	hose		2
3	LH0866	Plate chain	Section 93	1
4	EK15A-07.9	High pressure hose		1
5	GB/T 70.1-2000	Hexagon socket head screw	M10×20	3
6	GB/T 93-1987	Elastic washer	Φ10	3
7	GB/T 6183.2-2000	Hexagonal flange face lock nut	M16	1
8	GB/T 5780-2000	Hexagonal head bolt	M16×70	1
9	GB/T 93-1987	Elastic washer	Φ16	1
10	EK13-11.10	Tubing pulley		1
11	EK13-11.8	Pulley casing		1
12	GB 894.1-86	The shaft USES an elastic retainer	Φ25	1
13	GB/T 276-94	Deep groove ball bearing	6305-2Z	2
14	B20.03.3-5	Sprocket A		1
15	EK13-11.9	Sprocket shaft		1
16	B18.02.07	Sprocket frame welded		1
17	EK15A-09.5	Front jack		1
18	EK15A-9.7	Steel pipe		1
19	GB/T 70.1-2000	Hexagon socket head screw	M8×20	12
20	B12.4.3	Riot valve		3
21	EK15A-03.4.1	Directly to the head		4
22	EK15A-07.11	Steel tube (2)		1
23	EK15A-09.9	hose		2
24	EK15A-09.3	Interior door frame assembly		1
25	EK15A-09.2	Middle portal frame assembly		1
26	LH0866	Plate chain	Section 137	2
27	GB/T 91-2000	Cotter pin	Φ1.2×18	12
28	GB 880-86	Perforated pin	Φ5×40	6
29	B20.02-4	Chain bolt		3
30	GB/T 91-2000	Cotter pin	Φ3×30	3
31	GB/T 41-2000	Hexagonal nut	M16	4
32	EK15A-09.1	Outside portal frame assembly		1
33	EK15A-9.6	Steel pipe		1
34	EK15A-07.6	Rear jack cylinder assembly		2
35	GB/T 70.1-2000	Hexagon socket head screw	M6×10	1

36	GB/T 93-1987	Elastic washer	Φ6	7
37	EK15A-03.7	Shaft welding		1
38	GB/T 93-1987	Elastic washer	Φ8	15
39	GB/T 5781-2000	Hexagonal head bolt	M8×25	1
40	EK15A-03.10	The door bracket is connected with the brass sleeve		2
41	GB982-77	Combination gasket	Φ16	6
42	EK15A-03.5.1	Directly to the head		2
43	EK15A-07.10	Steel tube (1)		1
44	EK15A-07.7	Steel tube (3)		1
45	EK15A-03.5	Tilt cylinder assembly		1
46		Slow down the valve		1
47	GB982-77	Combination gasket	Φ22	1
48	EK15A-01.11.8	Through joint		1
49	S11-3502020	Brake assembly right		1
50	EK15A-01.6	Welding of tilting cylinder pin shaft		1
51	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
52	S11-3502020	Brake assembly left		1
53	GB/T 297-94	Taper roller bearing	33008	2
54	CPD10A	Rubber wheel	12×5.5	2
55	GB/T 297-94	Taper roller bearing	33007	2
56	GB/T 812-1988	Round nut	M35×1.5	4
57	GB 858-1988	The round nut USES a stop washer	Φ35	2
58	EK15A-03.11	The front wheel side cover		2
59	GB/T 65-2000	Slotted cylinder head screw	M6×14	6
60	GB/T 70.1-2000	Hexagon socket head screw	M8×30	2

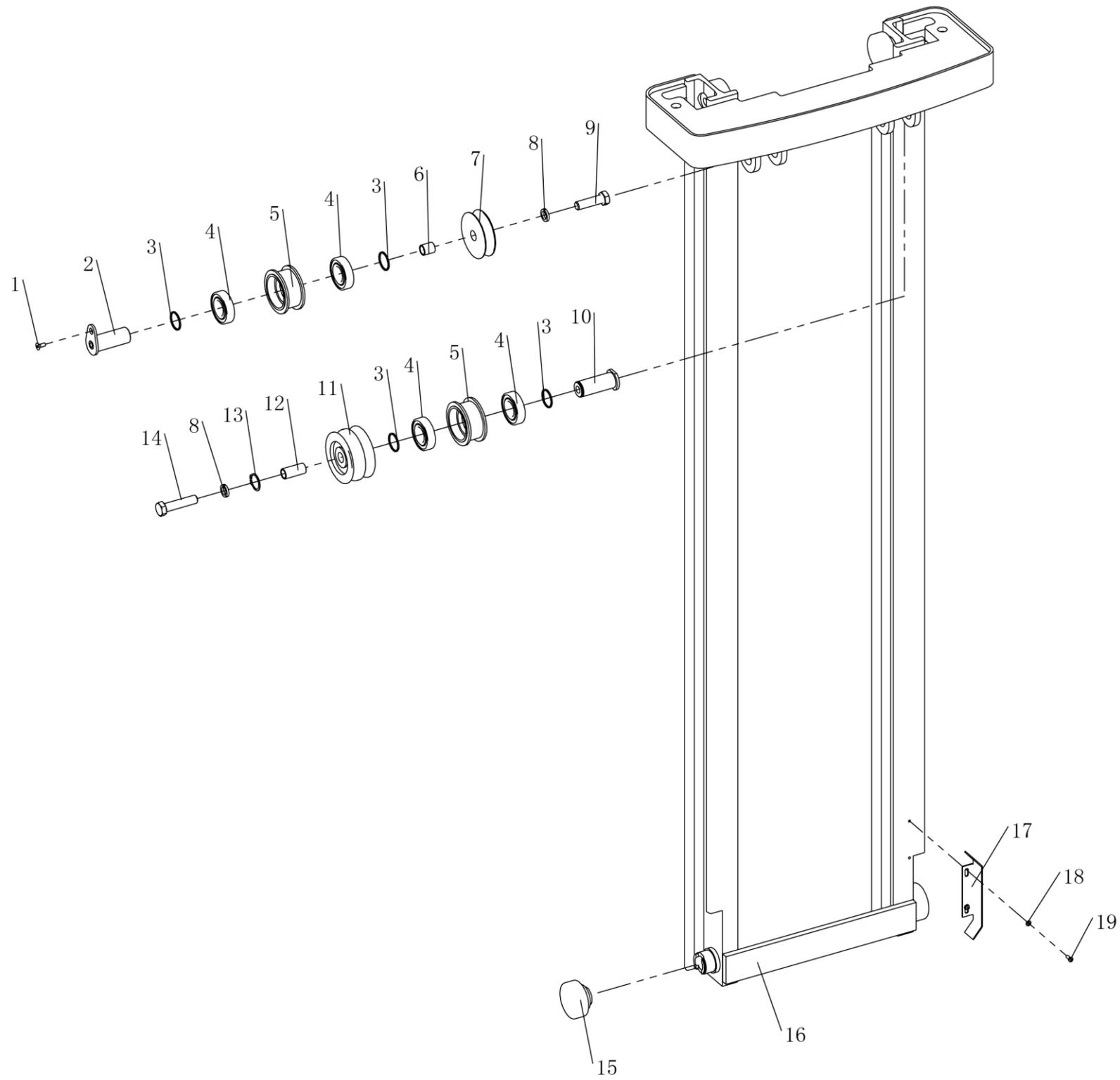
3.4.1 Outer door frame assembly (three sections free lateral movement)



3.4.1 Outer door frame assembly (three sections free lateral movement)

The serial number	Code name	The name of the		The number of
1	CRA70.4-4S	Composite roller		2
2	EK15A-09.1.1	Outside frame welding		1
3	TY-01.35	Micro switch	RZ-15GW2S-B3	
4	GB/T 818-2000	Cross slotted head screw	M4×25	2
5	GB/T 6173-2000	Thin hexagon nut	M14×1.5	2
6	EK13-02.5.7	joint		2
7	GB/T 6173-2000	Thin hexagon nut	M16×1.5	1
8	EK15A-06.1.2	joint		1
9	EK15A-03.1.4	Oil cylinder hoop		4
10	GB/T 93-1987	Elastic washer	Φ8	8
11	GB/T 70.1-2000	Hexagon socket head screw	M8×20	8
12		Tubing clamp	Φ12	3
13	GB/T 93-1987	Elastic washer	Φ6	3
14	GB/T 70.1-2000	Hexagon socket head screw	M6×10	3

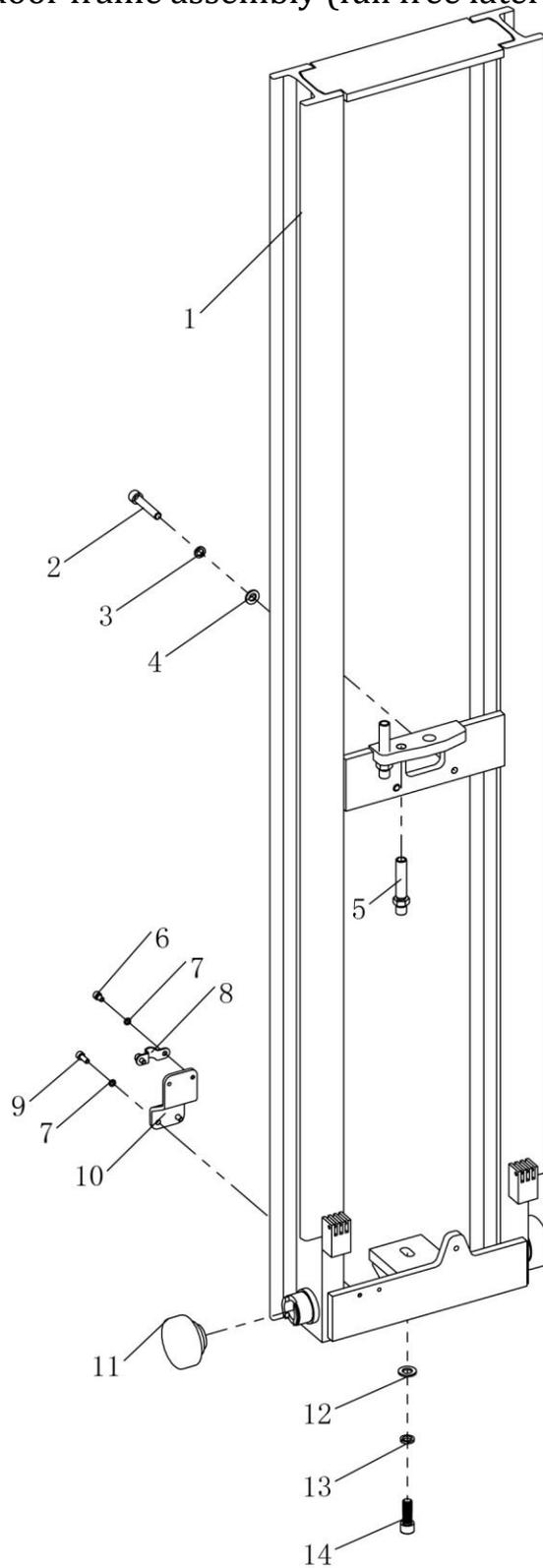
3.4.2 Middle portal frame assembly (3 sections free lateral movement)



3.4.2 Middle portal frame assembly (3 sections free lateral movement)

The serial number	Code name	The name of the		The number of
1	GB/T 70.3-2000	Hexagon socket head screw	M6×16	1
2	EK15A-07.2.2	Sprocket shaft welding		1
3	B20.03.3-8	liner		4
4	GB/T 276-94	Deep groove ball bearing	6206-2Z	4
5	B20.03.2-7	Sprocket B		2
6	EK15A-07.2.3	Pulley casing		1
7	B12.02-10	The pulley		1
8	GB/T 93-1987	Elastic washer	Φ16	2
9	GB/T 5781-2000	Hexagonal head bolt	M16×55	1
10	EK15A-09.2.1	Sprocket shaft		1
11	EK15A-09.10	Tubing pulley		1
12	EK13-11.8	Pulley casing		1
13	GB 894.1-86	The shaft USES an elastic retainer	Φ30	1
14	GB/T 5780-2000	Hexagonal head bolt	M16×70	1
15	CRA70.4-4S	Composite roller		4
16	EK15A-07.2.1	Middle frame welding		1
17	EK15A-03.2.2	The limit board		1
18	GB/T 95-2002	Flat washer	Φ5	2
19	GB/T 818-2000	Cross slotted head screw	M5×12	2

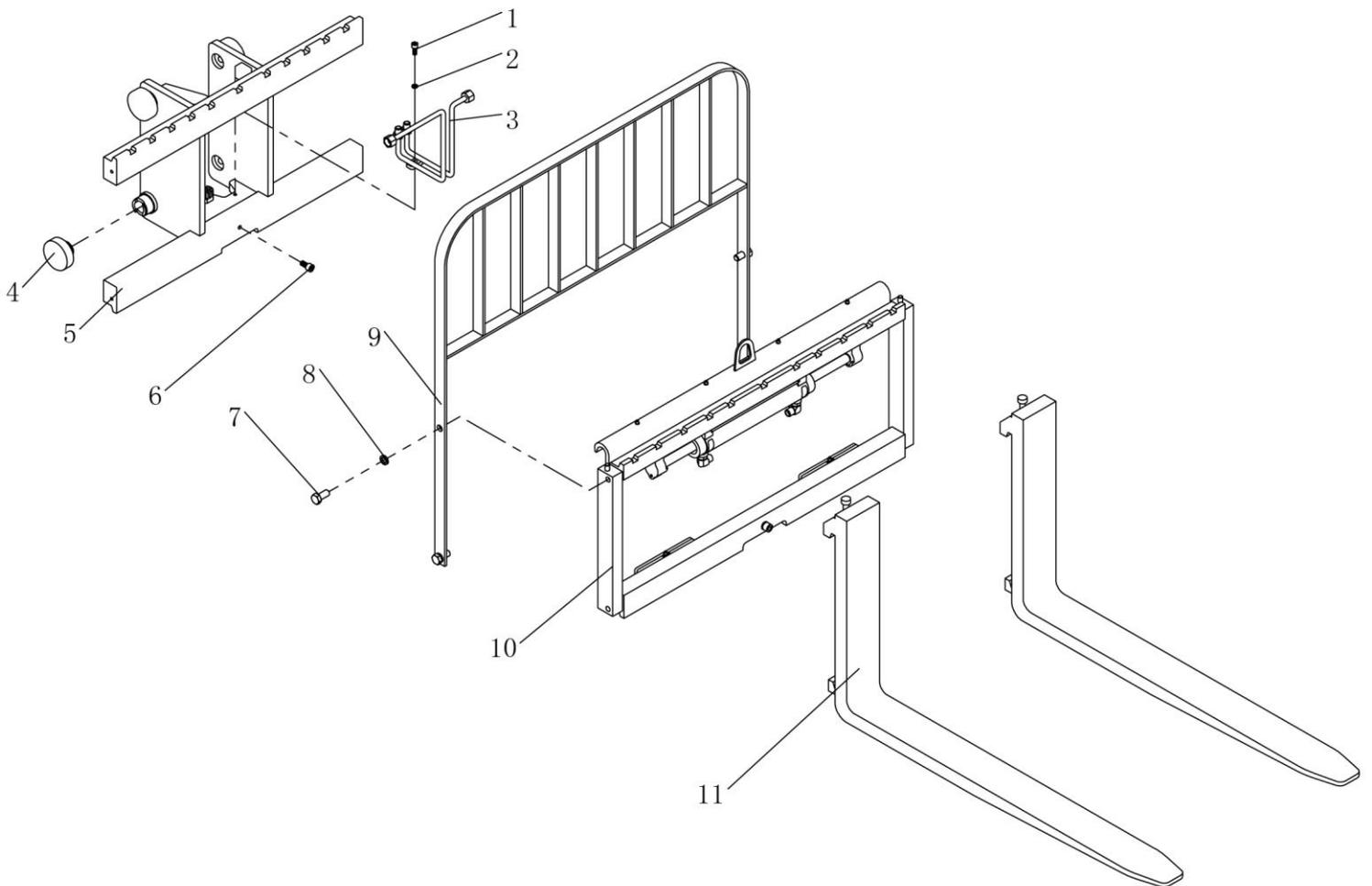
3.4.3 Inner door frame assembly (full free lateral movement of three sections)



3.4.3 Inner door frame assembly (full free lateral movement of three sections)

The serial number	Code name	The name of the		The number of
1	EK15A-09.3.1	The inner door frame is welded		1
2	GB/T 70.1-2000	Hexagon socket head screw	M10×55	2
3	GB/T 93-1987	Elastic washer	Φ10	2
4	GB/T 95-2002	Flat washer	Φ10	2
5	EK13-02.5.7	joint		2
6	GB/T 70.1-2000	Hexagon socket head screw	M6×10	2
7	GB/T 93-1987	Elastic washer	Φ6	4
8		Ride the marca hoop	Φ12	1
9	GB/T 70.1-2000	Hexagon socket head screw	M6×16	2
10	EK15A-07.3.2	Steel tube mounting plate		1
11	CRA70.4-4S	Composite roller		2
12	GB/T 95-2002	Flat washer	Φ12	1
13	GB/T 93-1987	Elastic washer	Φ12	1
14	GB/T 70.1-2000	Hexagon socket head screw	M12×35	1

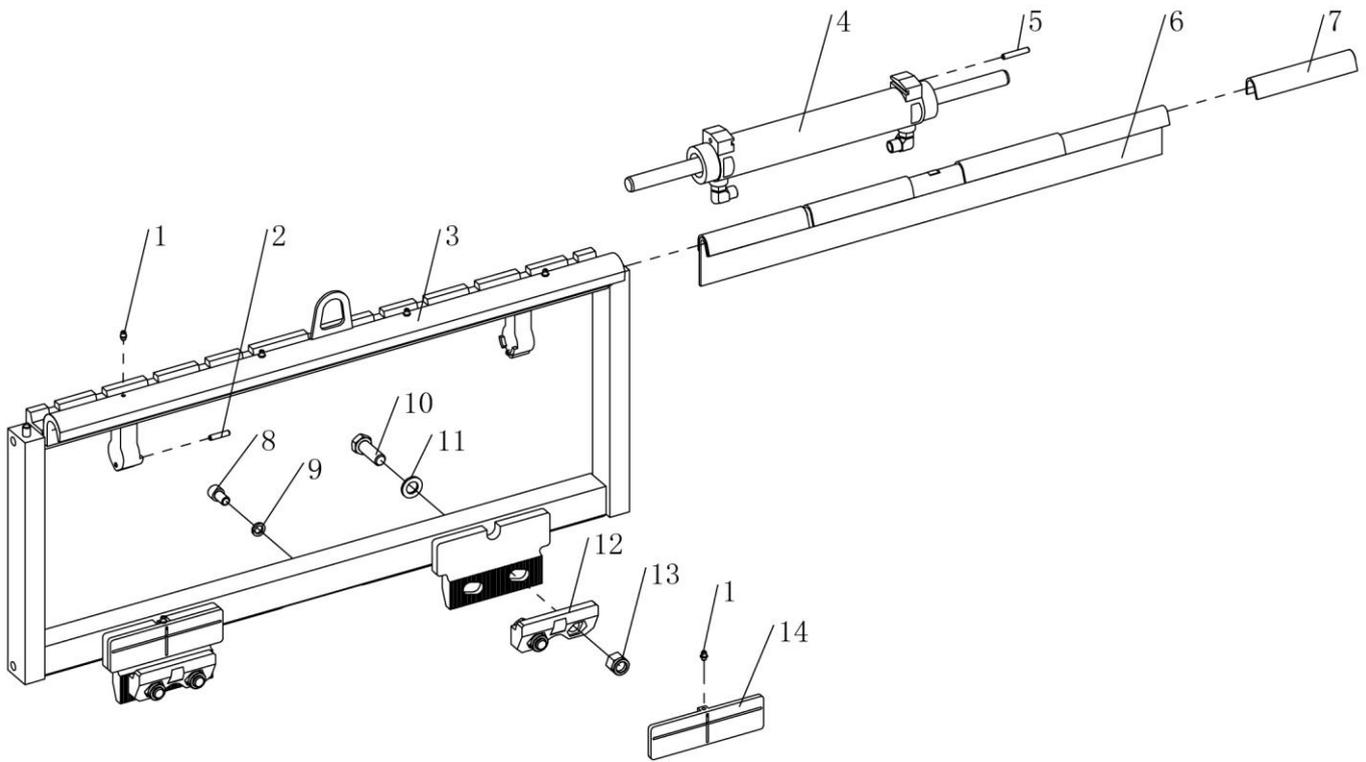
3.4.4 Sliding member (full free lateral movement of three sections)



3.4.4 Sliding member (full free lateral movement of three sections)

The serial number	Code name	The name of the		The number of
1	GB/T 70.1-2000	Hexagon socket head screw	M8×20	1
2	GB/T 93-1987	Elastic washer	Φ8	1
3	EK15A-09.4.2	Steel pipe		1
4	CRA70.4-4S	Composite roller		4
5	EK15A-09.4.1	Carriage welded		1
6	GB/T 70.1-2000	Hexagon socket head screw	M10×20	1
7	GB/T 5781-2000	Hexagon head bolt full thread	M14×30	4
8	GB/T 93-1987	Elastic washer	Φ14	4
9	EK15A-10.3.2	Guardrail welded		1
10	EK15A-10.3.3	Side shifter unit		1
11	E13.06.04-5	Pallet fork		2

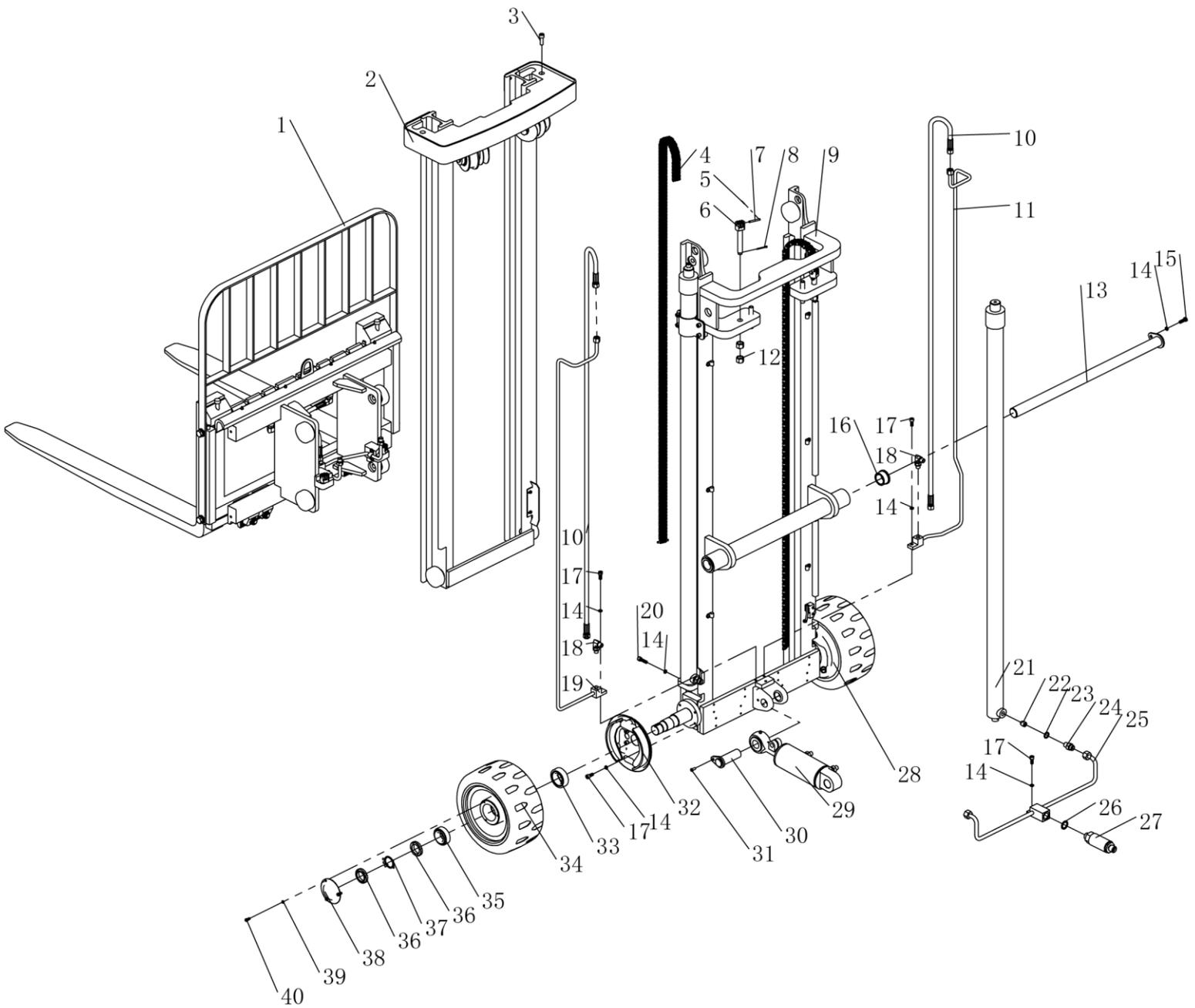
3.4.4.1 Side shifter unit



3.4.4.1 Side shifter unit

The serial number	Code name	The name of the		The number of
1	JB/T 7940.1-1995	Straight through type oil filling cup	Φ6	6
2	GB/T 879.1-2000	Elastic cylindrical pin	Φ6×30	2
3	EK15A-10.3.3.1	Side joint		1
4	EK15A-10.3.3.3	Oil cylinder components		1
5	GB/T 879.1-2000	Elastic cylindrical pin	Φ6×40	2
6	EK15A-10.3.3.2.1	Weld the inside of the chute		1
7	EK15A-10.3.3.2.2	Chute plate		4
8	GB/T 70.1-2000	Hexagon socket head screw	M12×20	1
9	GB/T 93-1987	Elastic washer	Φ12	1
10	GB/T 5781-2000	Hexagon head bolt full thread	M16×45	4
11	GB/T 95-2002	Flat washer	Φ16	4
12	EK15A-10.3.3.4	briquetting		2
13	GB/T 889.1-2000	Hexagonal lock nut	M16	4
14		Come on board		2

3.5 Two lateral door frame assembly

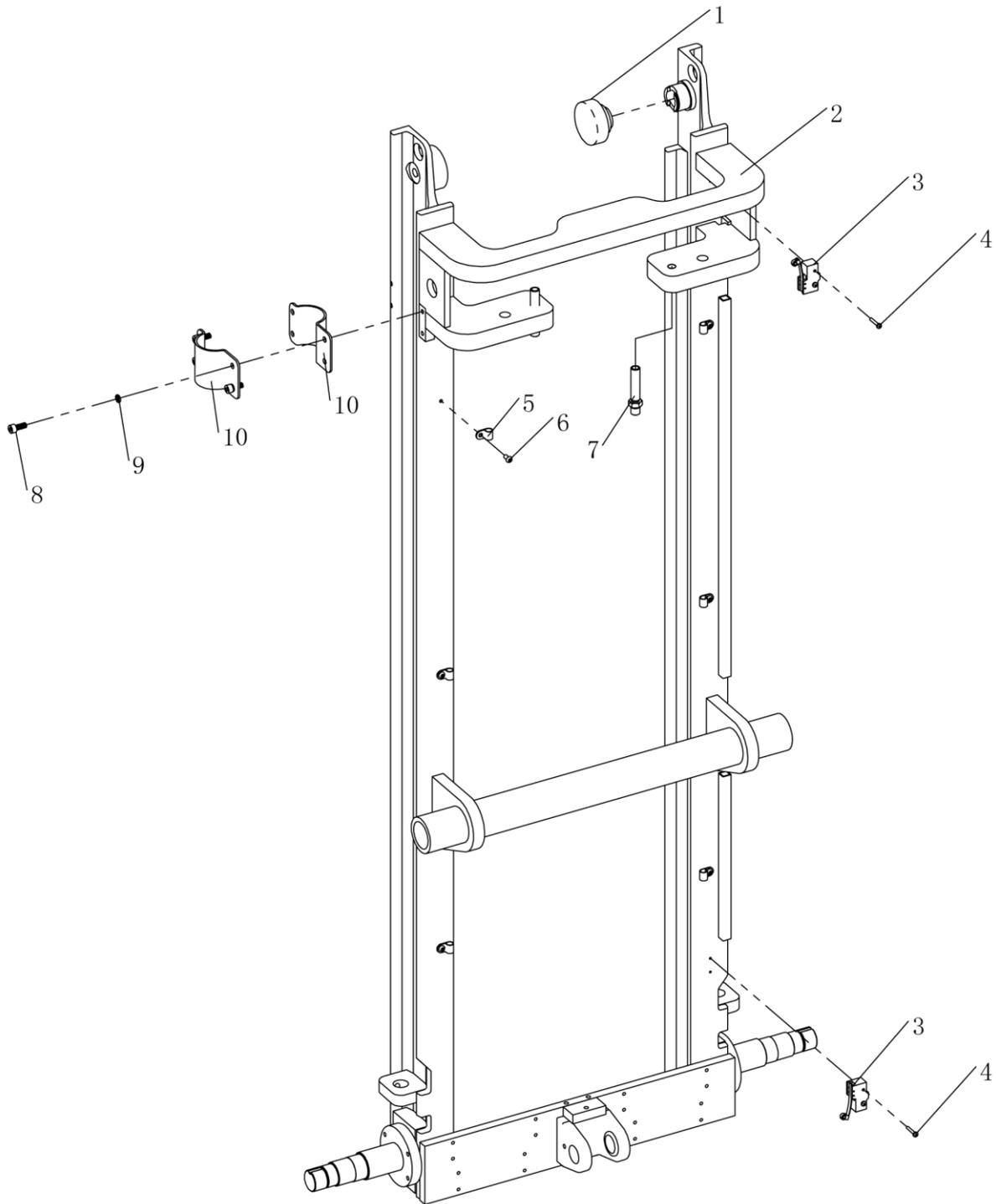


3.5 Two lateral door frame assembly

The serial number	Code name	The name of the		The number of
1	EK15A-10.3	Carriage components		1
2	EK15A-10.2	Interior door frame assembly		1
3	GB/T 70.1-2000	Hexagon socket head screw	M10×30	2
4	LH0866	Plate chain		2
5	GB/T 91-2000	Cotter pin	Φ1.2×18	8
6	B20.02-4	Chain bolt		2
7	GB 880-86	Perforated pin	Φ5×40	4
8	GB/T 91-2000	Cotter pin	Φ3×30	2
9	EK15A-10.1	Outside portal frame assembly		1
10	EK15A-10.6	High pressure hose		2
11	EK15A-10.5	Steel pipe right		1
12	GB/T 41-2000	Hexagonal nut	M16	4
13	EK15A-03.7	Shaft welding		1
14	GB/T 93-1987	Elastic washer	Φ8	14
15	GB/T 5781-2000	Hexagonal head bolt	M8×25	1
16	EK15A-03.10	The door bracket is connected with the brass sleeve		2
17	GB/T 70.1-2000	Hexagon socket head screw	M8×20	11
18	BC-50.8	Rectangular joint (1)		2
19	EK15A-10.4	Steel pipe left		1
20	GB/T 70.1-2000	Hexagon socket head screw	M8×30	2
21	EK15A-03.4	Lift cylinder assembly		2
22	B12.4.3	Riot valve		2
23	GB982-77	Combination gasket	Φ16	2
24	EK15A-03.4.1	Directly to the head		2
25	EK15A-03.9	Steel pipe		1
26	GB982-77	Combination gasket	Φ20	1
27	XSF-F16L-60-3T	The speed limit valve	3307 pounds	1
28	S11-3502020	Brake assembly right		1
29	EK15A-03.5	Tilt cylinder assembly		1
30	EK15A-01.6	Welding of tilting cylinder pin shaft		1
31	GB/T 70.2-2000	Hexagon socket head screw	M6×16	1
32	S11-3502020	Brake assembly left		1
33	GB/T 297-94	Taper roller bearing	33008	2
34	CPD10A	Rubber wheel	12×5	2
35	GB/T 297-94	Taper roller bearing	33007	2
36	GB/T 812-1988	Round nut	M35×1.5	4
37	GB 858-1988	The round nut USES a stop washer	Φ35	2
38	EK15A-03.11	The front wheel side cover		2

39	GB/T 93-1987	Elastic washer	$\Phi 6$	6
40	GB/T 65-2000	Slotted cylinder head screw	M6×14	6

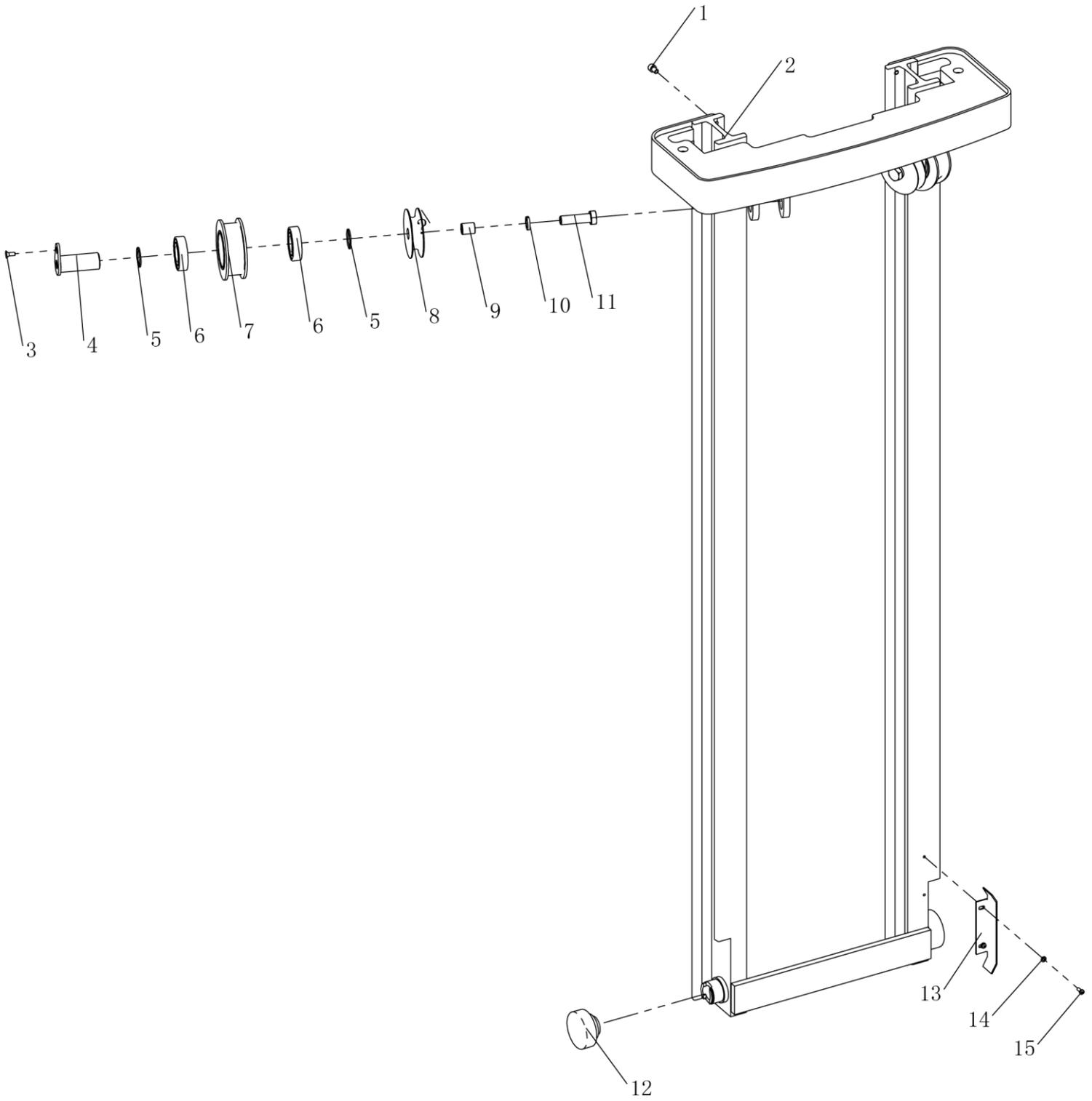
3.5.1 External door frame assembly (two side shifts)



3.5.1 External door frame assembly (two side shifts)

The serial number	Code name	The name of the		The number of
1	CRA70.4-4S	Composite roller		2
2	EK15A-10.1.1	Outside frame welding		1
3	TY-01.35	Micro switch (long)	RZ-15GW2S-B3	2
4	GB/T 818-2000	Cross slotted head screw	M4×25	4
5		Tubing clamp	Φ10	6
6	GB/T 70.2-2000	Hexagon socket head screw	M6×12	6
7	EK13-02.5.7	joint		2
8	GB/T 70.1-2000	Hexagon socket head screw	M8×20	8
9	GB/T 93-1987	Elastic washer	Φ8	8
10	EK15A-03.1.4	Oil cylinder hoop		4

3.5.2 Inner door frame assembly (two side shifts)



3.5.2 Inner door frame assembly (two side shifts)

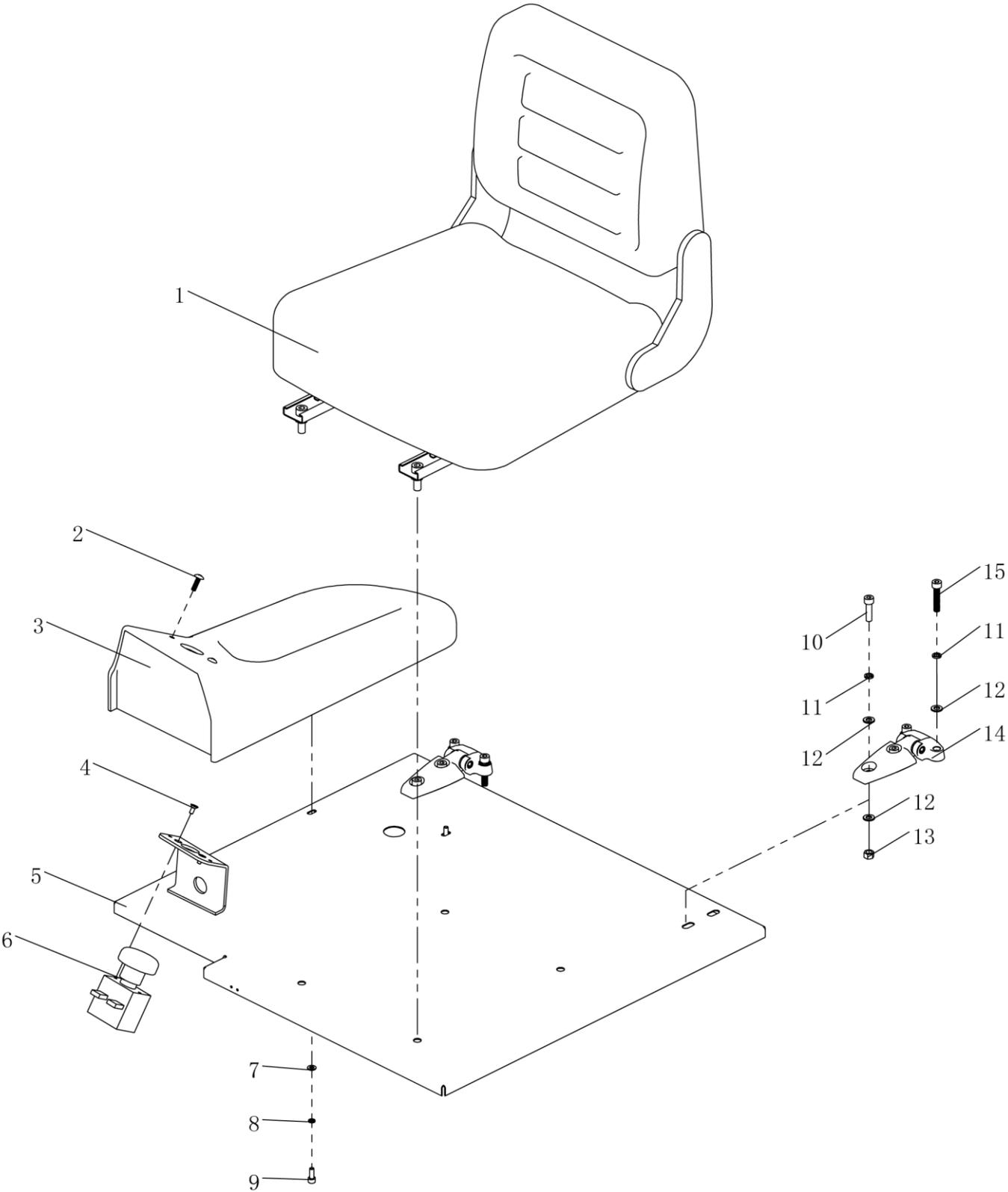
The serial number	Code name	The name of the		The number of
1	GB/T 70.1-2000	Hexagon socket head screw	M8×12	2
2	EK15A-10.2.1	The inner door frame is welded		1
3	GB/T 70.3-2000	Hexagon socket head screw	M6×16	2
4	EK15A-07.2.2	Sprocket shaft welding		2
5	B20.03.3-8	liner		4
6	GB/T 276-94	Deep groove ball bearing	6206-2Z	4
7	B20.03.3-5	Sprocket A		2
8	B12.02-10	The pulley		2
9	EK15A-07.2.3	Pulley casing		2
10	GB/T 93-1987	Elastic washer	Φ16	2
11	GB/T 5781-2000	Hexagonal head bolt	M16×55	2
12	CRA70.4-4S	Composite roller		2
13	EK15A-03.2.2	The limit board		1
14	GB/T 95-2002	Flat washer	Φ5	2
15	GB/T 818-2000	Cross slotted head screw	M5×12	2

3.5.3 Sliding member (two side movement)

The serial number	Code name	The name of the		The number of
1	EK15A-10.3.5	High-pressure tubing		2
2	EK15A-03.5.1	Directly to the head		2
3	GB982-77	Combination gasket	Φ16	2
4	GB/T 70.1-2000	Hexagon socket head screw	M8×20	2
5	GB/T 93-1987	Elastic washer	Φ8	2
6	EK15A-10.3.4	Steel pipe		1
7		Ride the marca hoop	Φ10	2
8	GB/T 70.2-2000	Hexagon socket head screw	M6×12	4
9	CRA70.4-4S	Composite roller		4
10	EK15A-10.3.1	Carriage welded		1
	EK15A-3.8.1	Carriage welded		1
11	GB/T 70.1-2000	Hexagon socket head screw	M10×20	1
12	EK15A-10.3.2	Guardrail welded		1
	EK15A-3.8.2	Guardrail welded		1
13	GB/T 93-1987	Elastic washer	Φ14	4
14	GB/T 5781-2000	Hexagon head bolt full thread	M14×30	4
15	EK15A-10.3.3	Side shifter unit		1
16	K13.06.04-5	Pallet fork		2

4. Battery cover plate assembly

4.1 Battery cover plate assembly

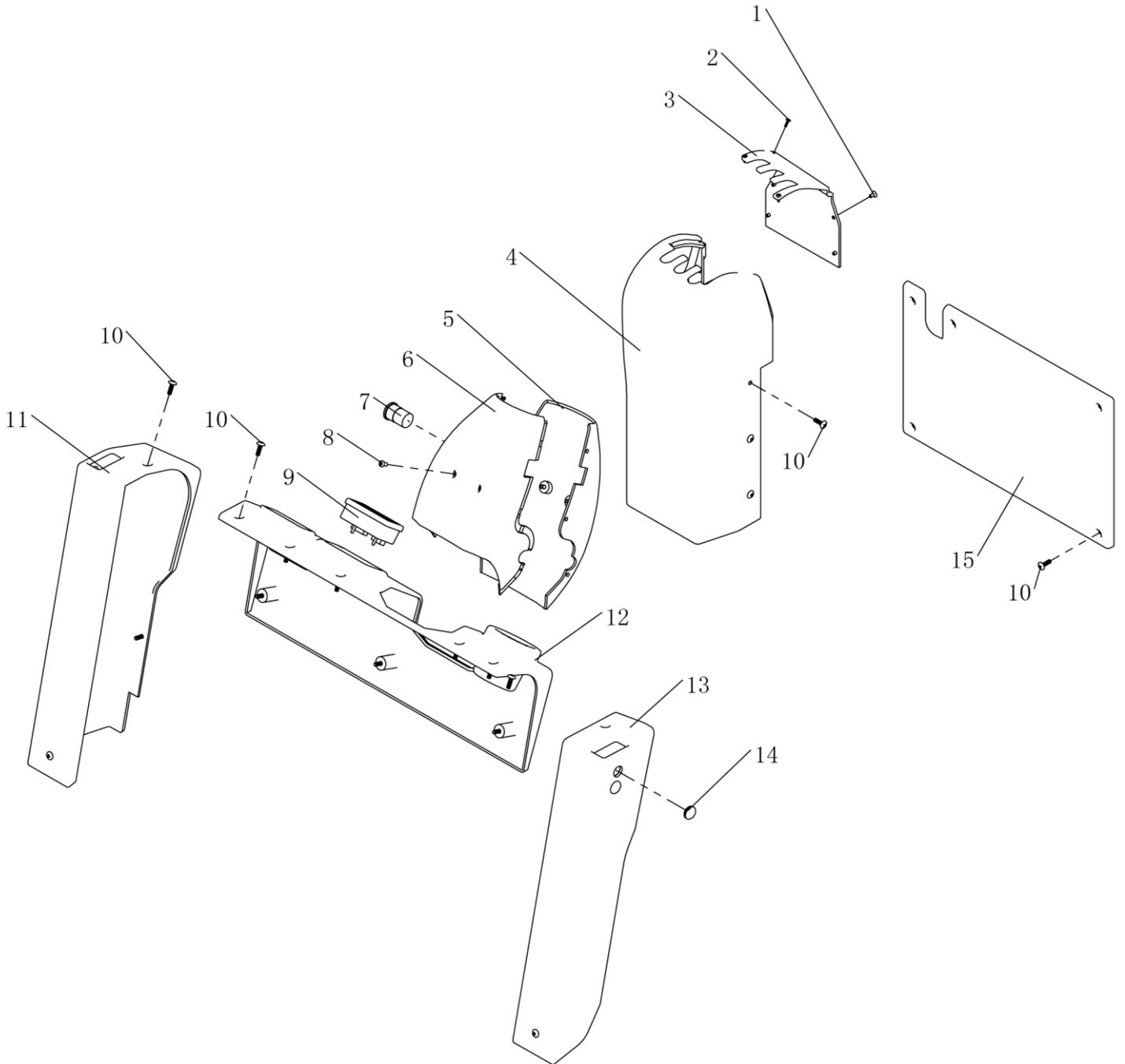


4.1 Battery cover plate assembly

The serial number	Code name	The name of the		The number of
1		The seat		1
2	GB 973-1976	Large flat head cross screw	M6×16	2
3	EK15A-04.5	Multiple valve mask		1
4	GB/T 70.3-2000	Hexagon socket head screw	M5×12	2
5	EK15A-04.1	Welding parts for battery cap		1
6	ZDK31-400	The abrupt stop switch		1
7	GB/T 97.2-1985	Flat washer	Φ6	4
8	GB/T 93-1987	Elastic washer	Φ6	4
9	GB/T 70.1-2000	Hexagon socket head screw	M6×16	2
10	GB/T 70.1-2000	Hexagon socket head screw	M8×30	4
11	GB/T 93-1987	Elastic washer	Φ8	8
12	GB/T 97.2-1985	Flat washer	Φ8	12
13	GB/T 41-2000	Hexagonal nut	M8	4
14		Forklift hinge		2
15	GB/T 70.1-2000	Hexagon socket head screw	M8×40	4
16	GB/T 70.1-2000	Hexagon socket head screw	M8×35	1
17	GB/T 6184-2000	Hexagonal lock nut	M8	1
18	EK15A-04.2	Fixed bracket		1
19	GB/T 70.1-2000	Hexagon socket head screw	M6×10	2

5. Instrument platform cover

5.1 Dashboard coverage

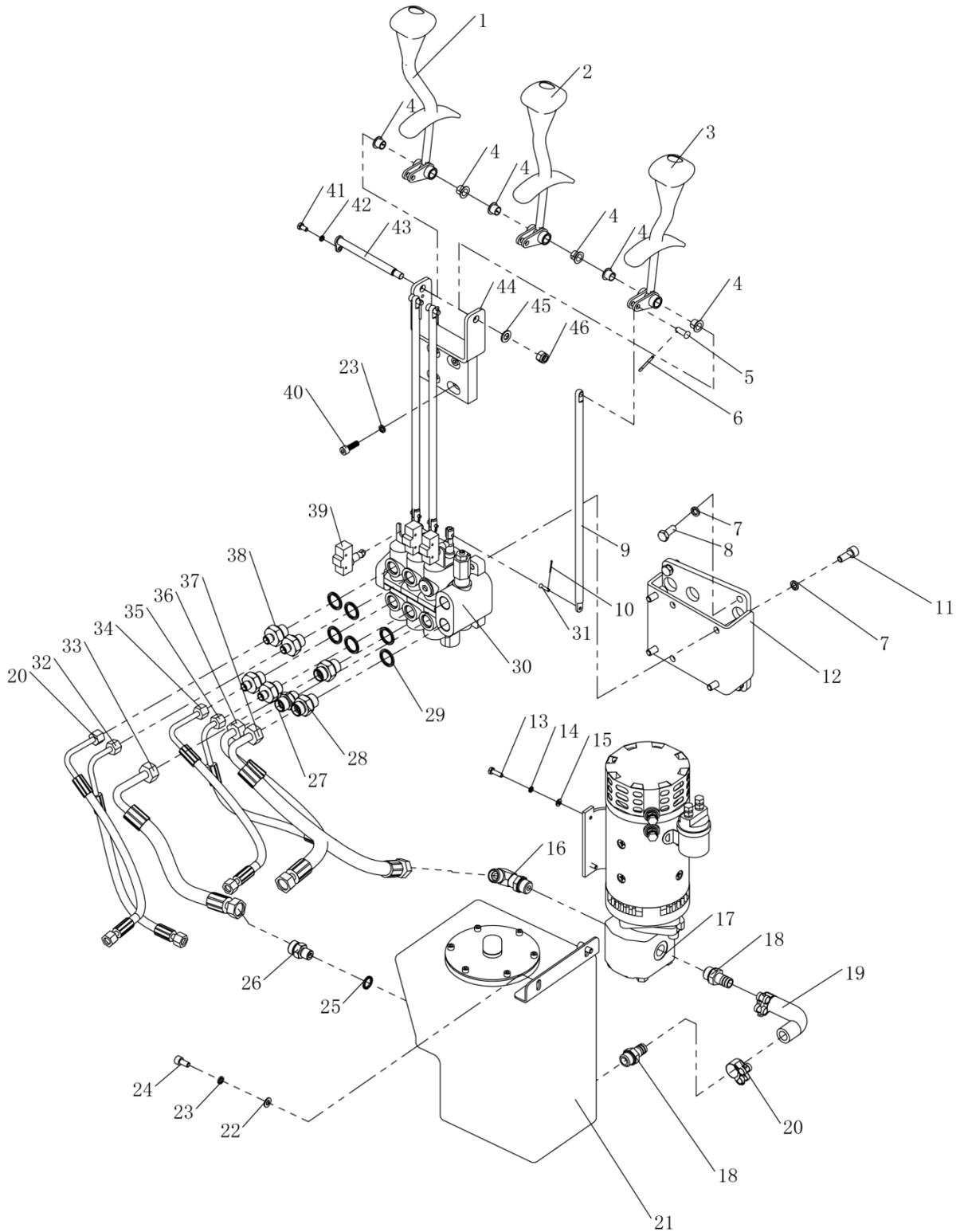


5.1 Dashboard coverage

The serial number	Code name	The name of the		The number of
1	GB/T 70.3-2000	Hexagon socket head screw	M5×10	4
2	GB 973-1976	Large flat head cross screw	M3×12	3
3	EK15A-06.9	Multi-way valve seal plate (three-way)		1
4	EK15A-06.7	Multi-way valve handle cover		1
5	EK15A-06.5	String after the cover		1
6	EK15A-06.4	String before the cove		1
7	XF125	Electric lock		1
8	GB/T 70.2-2000	Hexagon socket head screw	M6×12	4
9	TY-01.26	Electricity meter	3002T	1
10	GB 973-1976	Large flat head cross screw	M6×16	25
11	EK15A-06.3	Instrument platform side cover (right)		1
12	EK15A-06.1	Middle mask of instrument platform		1
13	EK15A-06.2	Instrument platform side cover (left)		1
14		CL rubber plug (small)		4
15	EK15A-06.6	Middle sealing plate		1

6. Hydraulic system

6.1 The hydraulic system



6.1 The hydraulic system

The serial number	Code name	The name of the		The number of
1	EK15A-01.11.3	The lateral handle		1
2	EK15A-01.11.2	Tilt the handle		1
3	EK15A-01.11.1	The lifting handle		1
4	K13-01.4.1.7	Shoulder compound	$\Phi 0.79 \times \Phi 0.55 \times \Phi 0.47 \times 0.43$	6
5	GB 882-88	pin	$\Phi 8 \times 22$	3
6	GB/T 91-2000	Cotter pin	$\Phi 3.2 \times 25$	3
7	GB/T 93-1987	Elastic washer	$\Phi 10$	7
8	GB/T 5781-2000	Hexagon head bolt full thread	M10×25	3
9	EK15A-01.11.5	Tie rod		3
10	GB/T 91-2000	Cotter pin	$\Phi 1.6 \times 16$	3
11	ISO12474-2010	Hexagon socket head screw	M10×1.25×25	4
12	EK15A-01.11.4	Multiple valve mounting plate		1
13	GB/T 5781-2000	Hexagon head bolt full thread	M6×20	4
14	GB/T 93-1987	Elastic washer	$\Phi 6$	4
15	GB/T 97.2-1985	Flat washer	$\Phi 6$	4
16	EK15A-01.7.1	Right Angle adjustable joint		1
17	EK15A-01.7	Pump station assembly components		1
18	EK15A-01.7.2	Pump suction connection		2
19	EK15A-01.15	Prepare tubing for cotton thread resistance		1
20	$\Phi 23-25$	Embrace hoop		2
21	EK15A-01.8	The fuel tank assembly		1
22	GB/T 97.2-1985	Flat washer	$\Phi 8$	3
23	GB/T 93-1987	Elastic washer	$\Phi 8$	7
24	GB/T 70.1-2000	Hexagon socket head screw	M8×16	3
25	GB982-77	Combination gasket	$\Phi 16$	2
26	EK15A-01.8.8	Directly to the head		1
27	EK13B-01.4.8	Directly to the head		1
28	EK15A-01.11.8	Through joint		2

29	GB892-77	Combination gasket	Φ22	6
30	MSV04-3123-114-01	Multi-way valve		1
31	GB 882-88	pin	Φ4.5×18	3
32	EK15A-01.11.13	High-pressure oil pipe (incline)		1
33	EK15A-01.11.10	High-pressure oil pipe (outlet)		1
34	EK15A-01.11.12	High-pressure oil pipe (side shift)		1
35	EK15A-01.11.11	High-pressure oil pipe (incline)		1
36	EK15A-01.11.9	High pressure tubing (pump oil)		1
37	EK15A-01.11.14	High-pressure oil pipe (outlet)		1
38	EK15A-01.11.7	Through joint		4
39	RZ-15GQ22-B3	Micro switch		3
40	GB/T 70.1-2000	Hexagon socket head screw	M8×25	4
41	GB/T 5781-2000	Hexagon head bolt full thread	M6×12	1
42	GB/T 93-1987	Elastic washer	Φ6	1
43	EK15A-01.11.15.1	Valve frame shaft		1
44	EK15A-01.11.6	Handle bracket welding		1
45	GB/T 95-2002	Flat washer	Φ10	1
46	GB/T 889.1-2000	Hexagonal lock nut	M10	1