

TZPJ1414HD

Scissor Lift Aerial Work Platform

Parts Manual

Model: TZPJ1414HD Scissor Lift Aerial Work Platform

TZCO
Apr. 2024

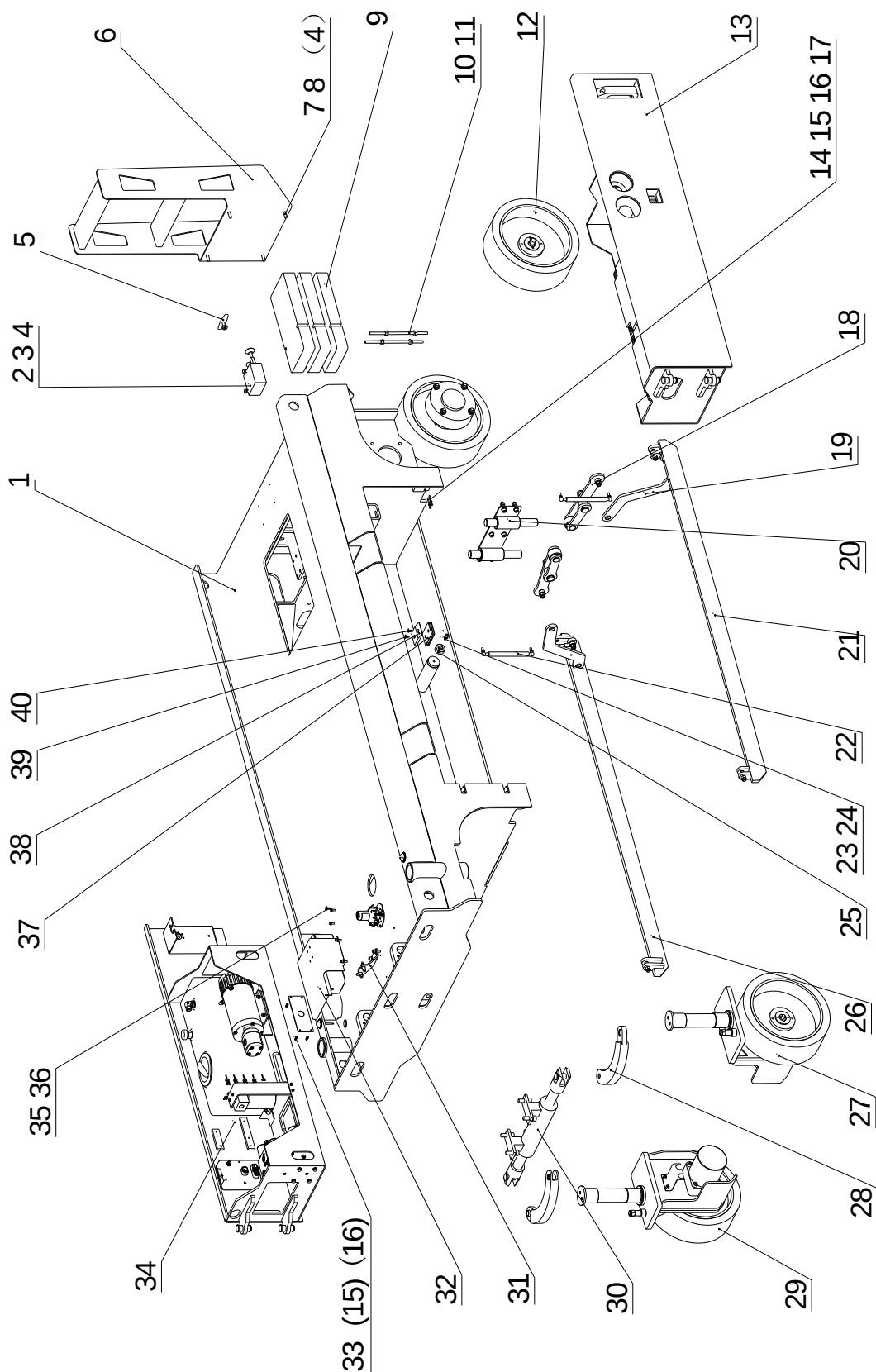
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1. Chassis

Chassis Components

(80987461)



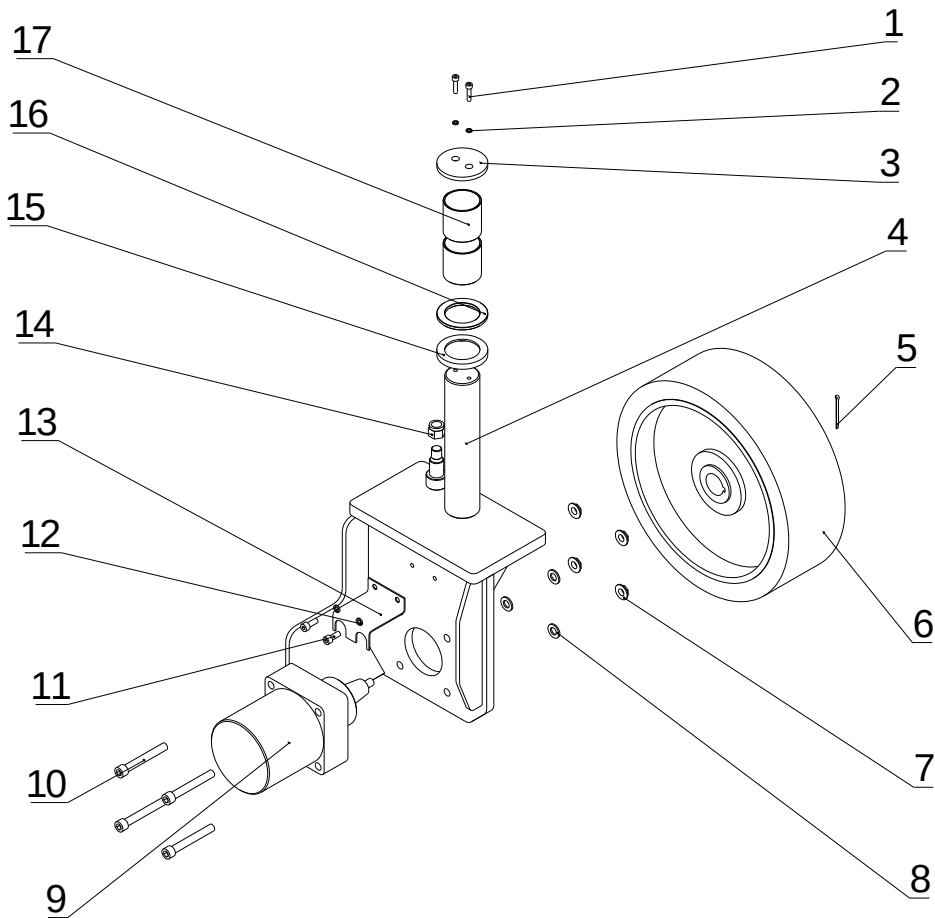
Chassis Components (80987461)			
No.	Part No.	Description	Qty.
1	80987478	Main Chassis	1
2	80789111	Hand Pump TZPJ0612H-202303-0970A-02	1
3	80654957	Hand Pump Installation Hexagon Head Bolt ASME B18.2.1	2
4	80184769	Washer GB/T93-10-65Mn	6
5	80930673	14m Emergency Wire	1
6	81120954	Ladder	1
7	80374487	Nut GB/T70.1-M10X35	4
8	80364186	Washer GB/T97.1-10-200HV	4
9	80793834	Counterweight	4
10	80730497	Stud GB/T953-M10X260	2
11	80624919	Screw GB/T6187.1-M10	4
12	80890462	Rear Wheel Brake Components	2
13	80929357	Model T1275 Battery Box	1
14	80795033	Bolt GB/T5782-M4X45-5.6	4
15	80370176	Washer GB/T97.1-4-200HV	8
16	80184775	Washer GB/T93-4-65Mn	8

Chassis Components (80987461)			
No.	Part No.	Description	Qty.
17	80507576	Screw GB/T6170-M4-6	4
18	80987459	Rocker Arm Components	2
19	80793944	Pothole Rocker Arm	2
20	80987469	Pothole Vertical Shaft Sleeve Components	1
21	80987463	Left Pothole Protection Parts	1
22	80514954	Gas Spring QTH-300	2
23	80368047	Nut GB/T70.1-M8X20	2
24	80307520	Washer GB/T97.1-8-200HV	2
25	80794992	Cushion Wheel	2
26	80987471	Right Pothole Protection Parts	1
27	80987464	Left Front Wheel Components	1
28	80987452	Steering Rocker Arm	2
29	80987472	Right Front Wheel Components	1
30	80793947	Steering Cylinder Installation Components	1
31	80929360	Proximity Switch Components	1
32	80890453	Protection Cover	1

Chassis Components (80987461)			
No.	Part No.	Description	Qty.
33	80374486	Nut GB/T70.1-M4X10	4
34	80987457	Pump Station Box	1
35	80252569	Nut GB/T5783-M6X16	3
36	80307518	Washer GB/T97.1-6-200HV	3
37	80806611	Nylon Plate Installation Adjustable Pad	6
38	80806610	Nylon Plate	2
39	80703905	Nut GB/T819.2-M6X16	2
40	80730495	Nut GB/T819.2-M6X20	2

Right Front Wheel Components

(80987472)

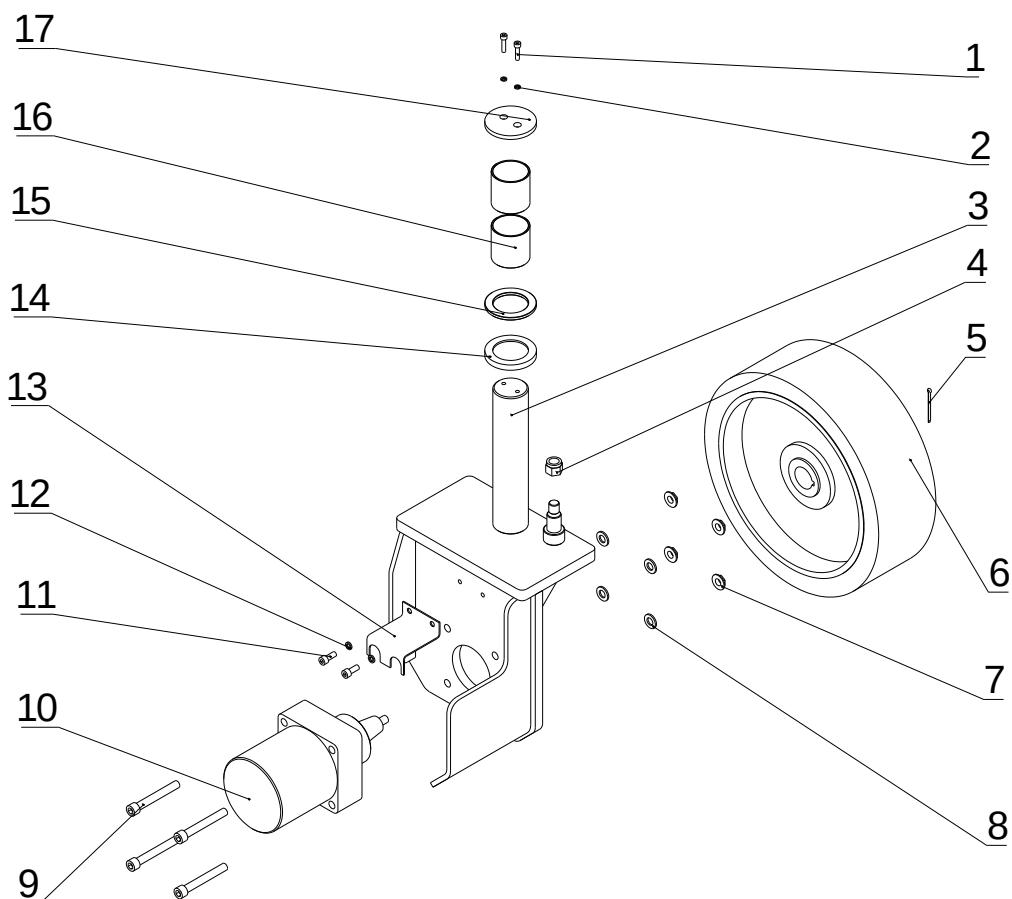


Right Front Wheel Components (80987472)			
No.	Part No.	Description	Qty.
1	80640443	Nut GB/T70.1-M6X25-8.8	2
2	80184778	Washer GB/T93-8-65Mn	2
3	80819300	Shaft Cap	1
4	80819301	Right Front Wheel Weldment	1
5	80730484	Pin GB/T91-4X56-Q235	1

Right Front Wheel Components (80987472)			
No.	Part No.	Description	Qty.
6	80789126	Tire TZPJ0612H-202303-5040A	1
7	80661529	Screw GB/T6177.1-M12-10	4
8	80364185	Washer GB/T97.1-12-200HV	4
9	80789119	Motor TZPJ1012H-202303-0970A-03	1
10	80890267	Nut GB/T70.1-M12X90-10.9	4
11	80368047	Nut GB/T70.1-M8X20-8.8	2
12	8184778	Washer GB/T93-8-65Mn	2
13	80929066	Elbow Fixing Plate	1
14	80320437	Screw GB/T889.1-M16-8	1
15	80793977	Weldment Protection Pad	1
16	80794994	Copper Pad	1
17	80890814	Composite Sleeve	2

Left Front Wheel Components

(80987464)

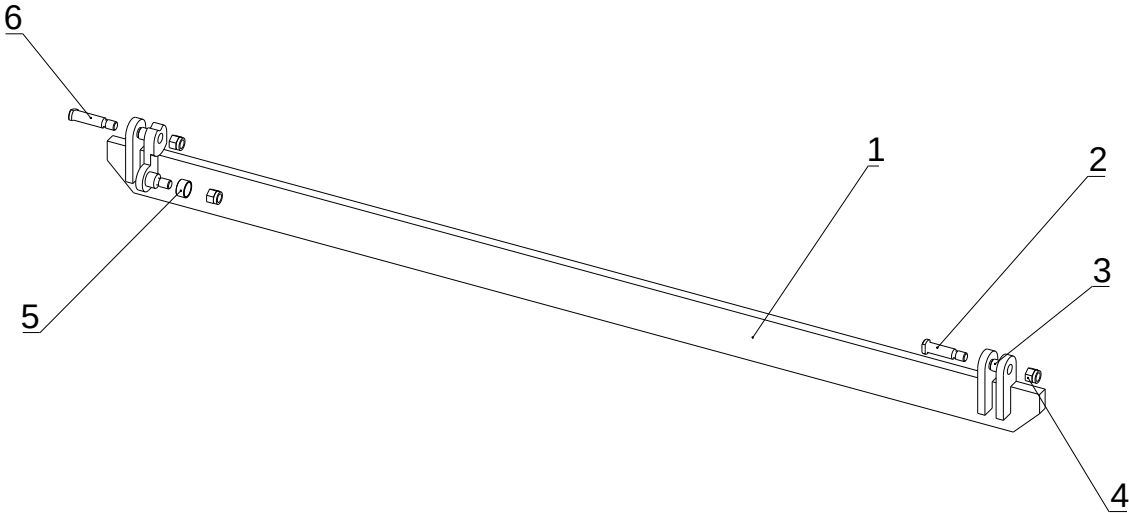


Left Front Wheel Components (80987464)			
No.	Part No.	Description	Qty.
1	80640443	Nut GB/T70.1-M6X25-8.8	2
2	80184778	Washer GB/T93-8-65Mn	2
3	80819301	Left Front Wheel Weldment	1
4	80320437	Screw GB/T889.1-M16-8	1

Left Front Wheel Components (80987464)			
No.	Part No.	Description	Qty.
5	80730484	Pin GB/T91-4X56-Q235	1
6	80789126	Tire TZPJ0612H-202303-5040A	1
7	80661529	Screw GB/T6177.1-M12-10	4
8	80364185	Washer GB/T97.1-12-200HV	4
9	80890267	Nut GB/T70.1-M12X90-10.9	4
10	80789119	Motor TZPJ1012H-202303-0970A-03	1
11	80368047	Nut GB/T70.1-M8X20-8.8	2
12	8184778	Washer GB/T93-8-65Mn	2
13	80929066	Elbow Fixing Plate	1
14	80793977	Weldment Protection Pad	1
15	80794994	Copper Pad	1
16	80890814	Composite Sleeve	2
17	80819300	Shaft Cap	1

Left Pothole Protection Parts

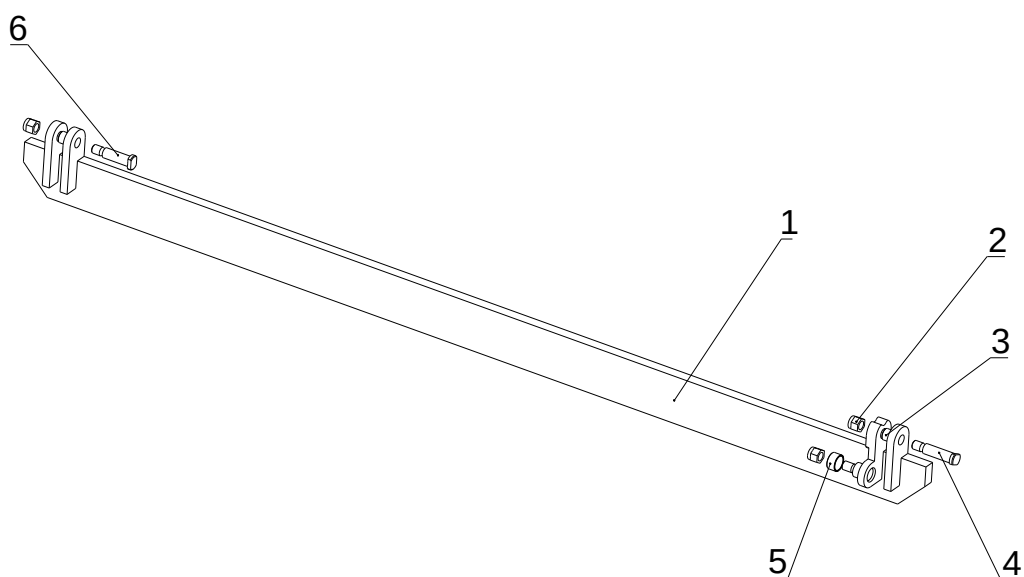
(80987463)



Left Pothole Protection Parts (80987463)			
No.	Part No.	Description	Qty.
1	80819317	Pothole Plate	1
2	80793967	Rocker Pin 2	1
3	80890815	Composite Sleeve 1	2
4	80908787	Hexagonal Flange Face Locking Screw GB/T6183.1-M12	3
5	80890816	Composite Sleeve 2	1
6	80793935	Rocker Pin 1	1

Right Pothole Protection Parts

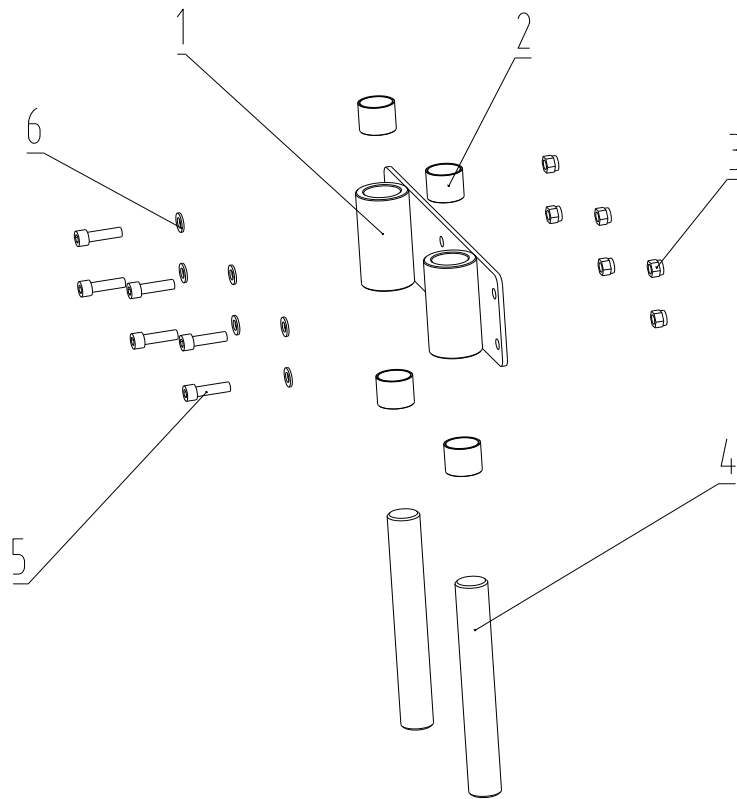
(80987471)



Right Pothole Protection Parts (80987471)			
No.	Part No.	Description	Qty.
1	80819296	Right Pothole Protection Plate	1
2	80908787	Hexagonal Flange Face Locking Screw GB/T6183.1-M12	3
3	80890815	Composite Sleeve 1	2
4	80793935	Rocker Pin 1	1
5	80890816	Composite Sleeve 2	1
6	80793967	Rocker Pin 2	1

Pothole Vertical Shaft Sleeve Components

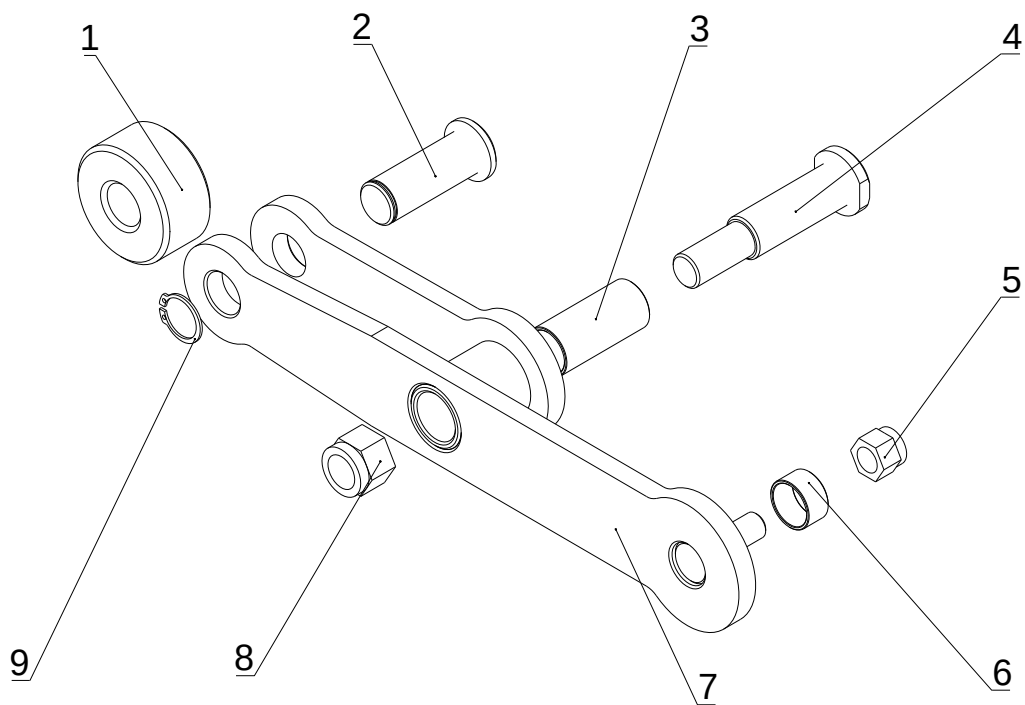
(80987469)



Pothole Vertical Shaft Sleeve Components (80987469)			
No.	Part No.	Description	Qty.
1	80819295	Shaft Housing Bracket	1
2	80890817	Composite Sleeve	4
3	80375948	Screw GB/T889.1-M10-8	6
4	80819319	Pothole Pushing Shaft	2
5	80374487	Nut GB/T70.1-M10X35-8.8	6
6	80364186	Washer GB/T97.1-10-200HV	6

Rocker Arm Components

(80987459)

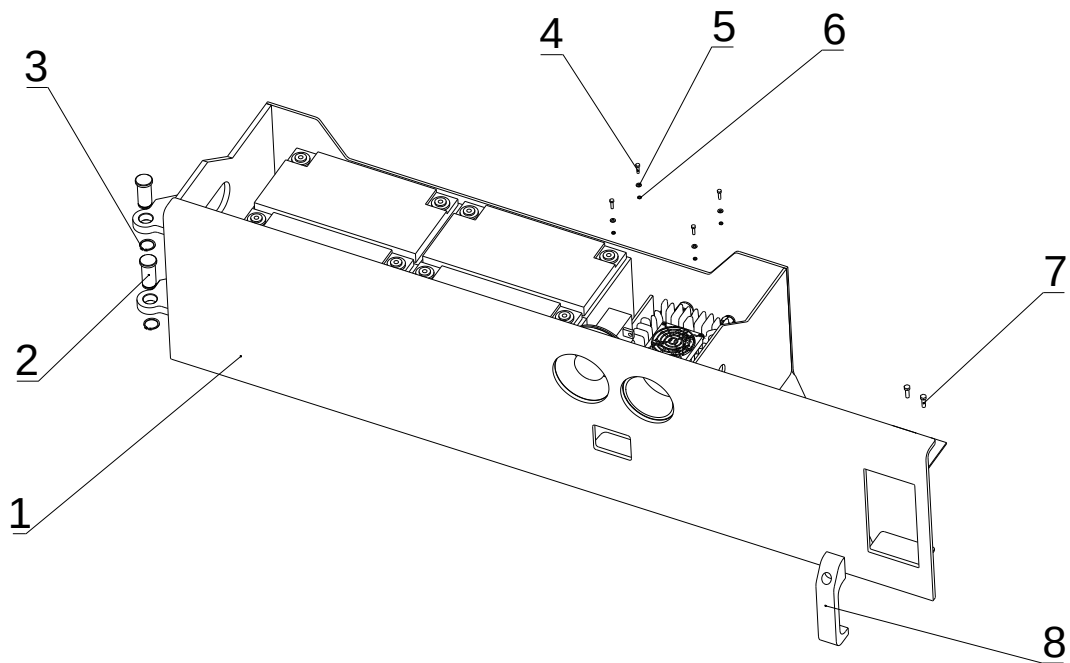


Rocker Arm Components (80987459)			
No.	Part No.	Description	Qty.
1	80794993	Wheel	1
2	80793939	Rocker Arm Ring Pin	1
3	80890818	Composite Sleeve 1	1
4	80793970	Rocker Arm Pin	1
5	80908787	Hexagonal Flange Face Locking Screw GB/T6183.1-M12	1
6	80890816	Composite Sleeve 2	1

Rocker Arm Components (80987459)			
No.	Part No.	Description	Qty.
7	80819293	Rocker Arm Weldment	1
8	80320437	Screw GB/T889.1-M16	1
9	80730479	Ring GB/T894-20	1

Battery Box Components

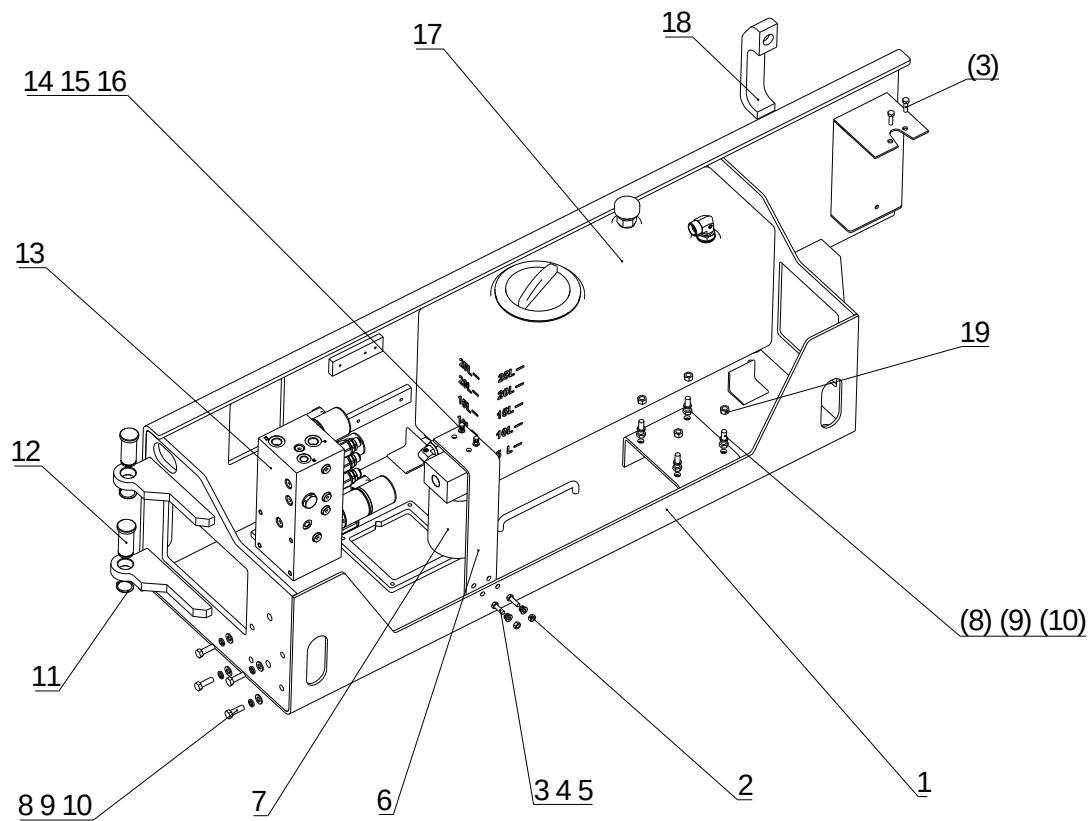
(80929357)



Battery Box Components (80929357)			
No.	Part No.	Description	Qty.
1	80929412	Battery Box Weldment Parts	1
2	80793975	Box Pin Shaft	2
3	80730481	Ring GB/T894-24	2
4	80371734	Bolt GB/T5783-M4X16	4
5	80370176	Washer GB/T97.1-4	8
6	80184775	Washer GB/T93-4	8
7	80252570	Bolt GB/T5783-M6X20	2
8	80731021	Box Lock	1

Pump Station Box Components

(80987457)

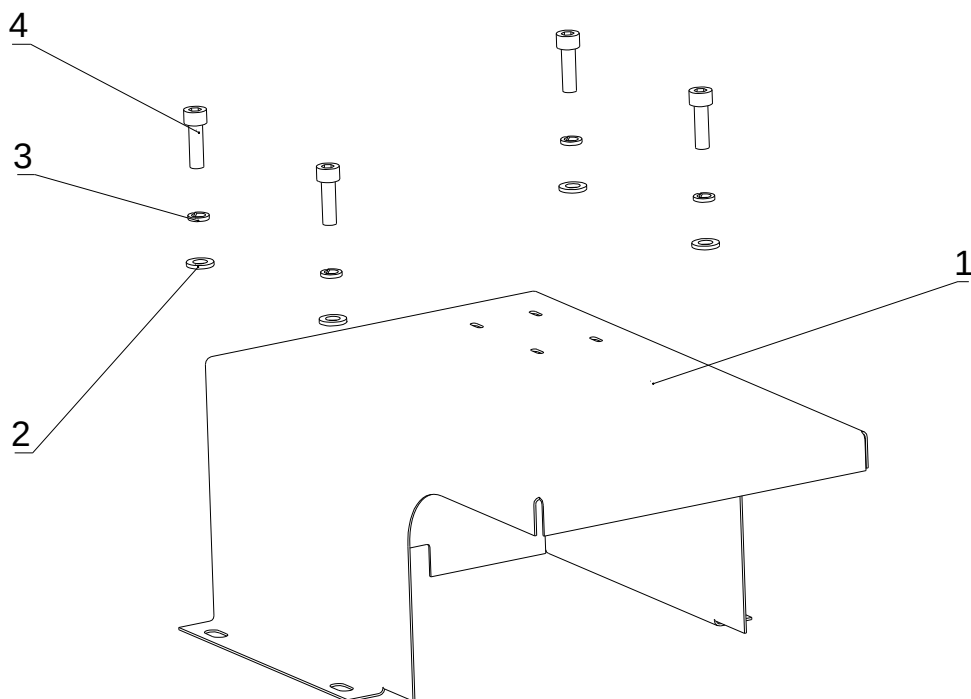


Pump Station Box Components (80987457)			
No.	Part No.	Description	Qty.
1	80987456	Pump Station Box Weldment Components	1
2	80320226	Screw GB/T6170-M6-8	2
3	80252570	Bolt GB/T5783-M6X20-8.8	4
4	80307518	Washer GB/T97.1-6-200HV	2
5	80184780	Washer GB/T93-6-65Mn	2

Pump Station Box Components (80987457)			
No.	Part No.	Description	Qty.
6	80793886	Return Filter Installation Plate	1
7	80916403	SP-06X10-G3-4 Return Filter	1
8	80368033	Bolt GB/T5783-M8X25-8.8	8
9	80307520	Washer GB/T97.1-8-200HV	8
10	80184778	Washer GB/T93-8-65Mn	8
11	80730481	Ring GB/T894-24-65Mn	2
12	80793975	Box Pin Shaft	2
13	80767409	TZ-JC-2018025-001-58 Main Valve	1
14	80368081	Bolt GB/T5783-M5X12-8.8	2
15	80370178	Washer GB/T97.1-5-200HV	2
16	80184776	Washer GB/T93-5-65Mn	2
17	80789107	25L Hydraulic Oil Box TZPJ1414H-202303-0810A	1
18	80731022	Box Lock	1
19	80320219	Screw GB/T6170-M8-8	4

Protection Cover Components

(80890453)

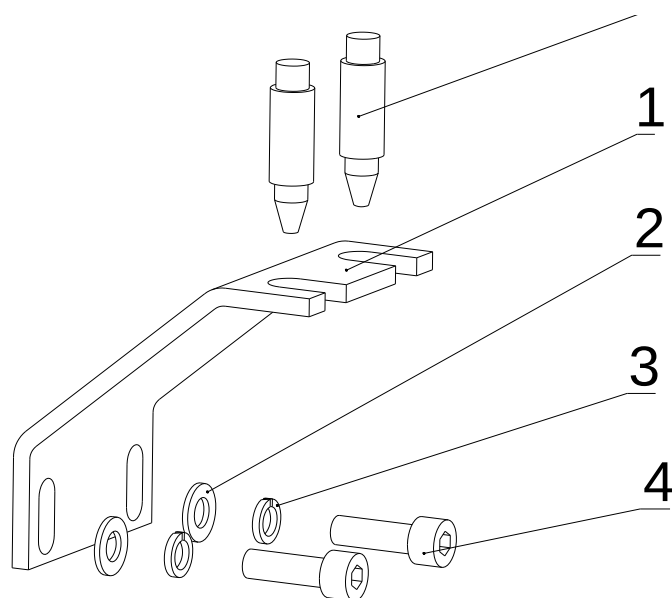


Protection Cover Components (80890453)			
No.	Part No.	Description	Qty.
1	80890322	Protection Cover	1
2	80307518	Washer GB/T97.1-6	4
3	80184780	Washer GB/T93-6	4
4	80184694	Nut GB/T70.1-M6X20	4

Proximity Switch Components

(80929360)

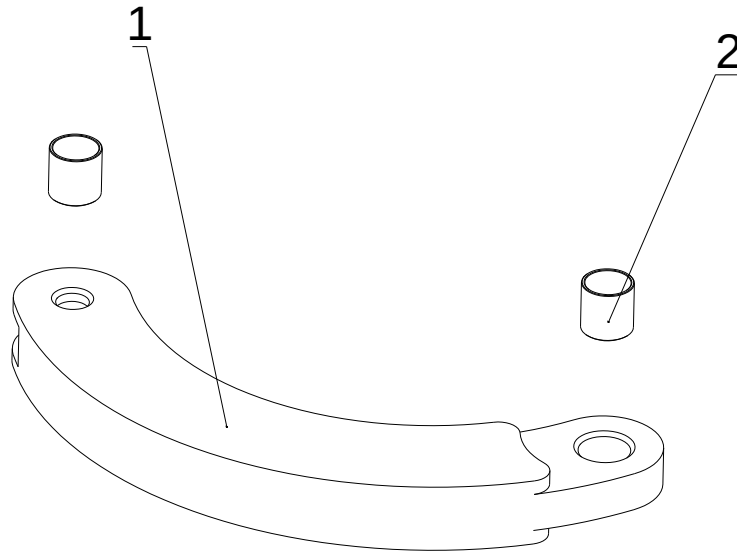
Proximity Switch



Proximity Switch Components (80793964)			
No.	Part No.	Description	Qty.
1	80929414	Plate	1
2	80307520	Washer GB/T97.1-8	2
3	80184778	Washer GB/T93-8	2
4	80184695	Nut GB/T70.1-M8X25	2

Steering Rocker Arm Components

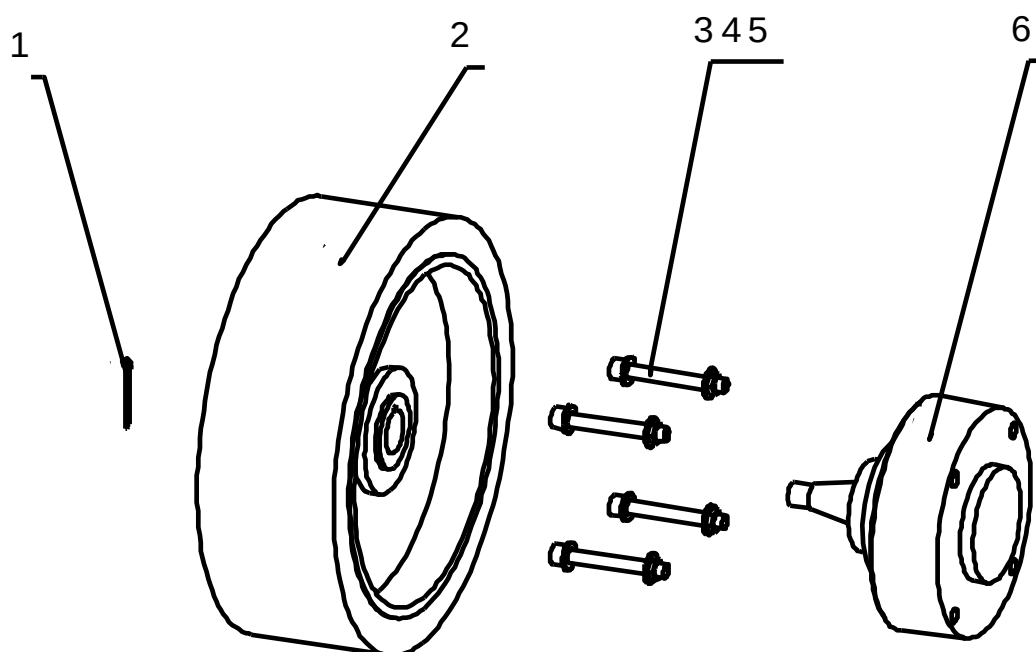
(80987452)



Steering Rocker Arm Components (80987452)			
No.	Part No.	Description	Qty.
1	80819289	Steering Rocker Arm Plate	1
2	80890819	Composite Sleeve	2

Rear Wheel Brake Components

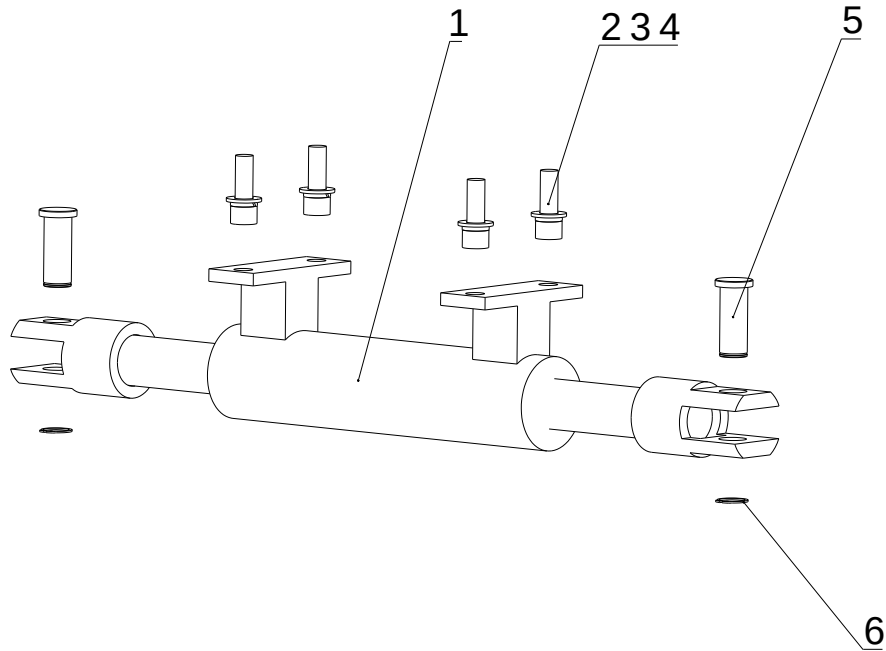
(80890462)



Rear Wheel Brake Components (80890462)			
No.	Part No.	Description	Qty.
1	80730484	Pin GB/T91-4X56-Q235	1
2	80789888	Tire TZPJ0612H-202303-5040A	1
3	80890267	Nut GB/T70.1-M12X90-10.9	4
4	80364185	Washer GB/T97.1-12-200HV	4
5	80661529	Screw GB/T6177.1-M12-10	4
6	80789113	Brake TZPJ0612H-202303-0970A	1

Steering Cylinder Installation Components

(80793947)

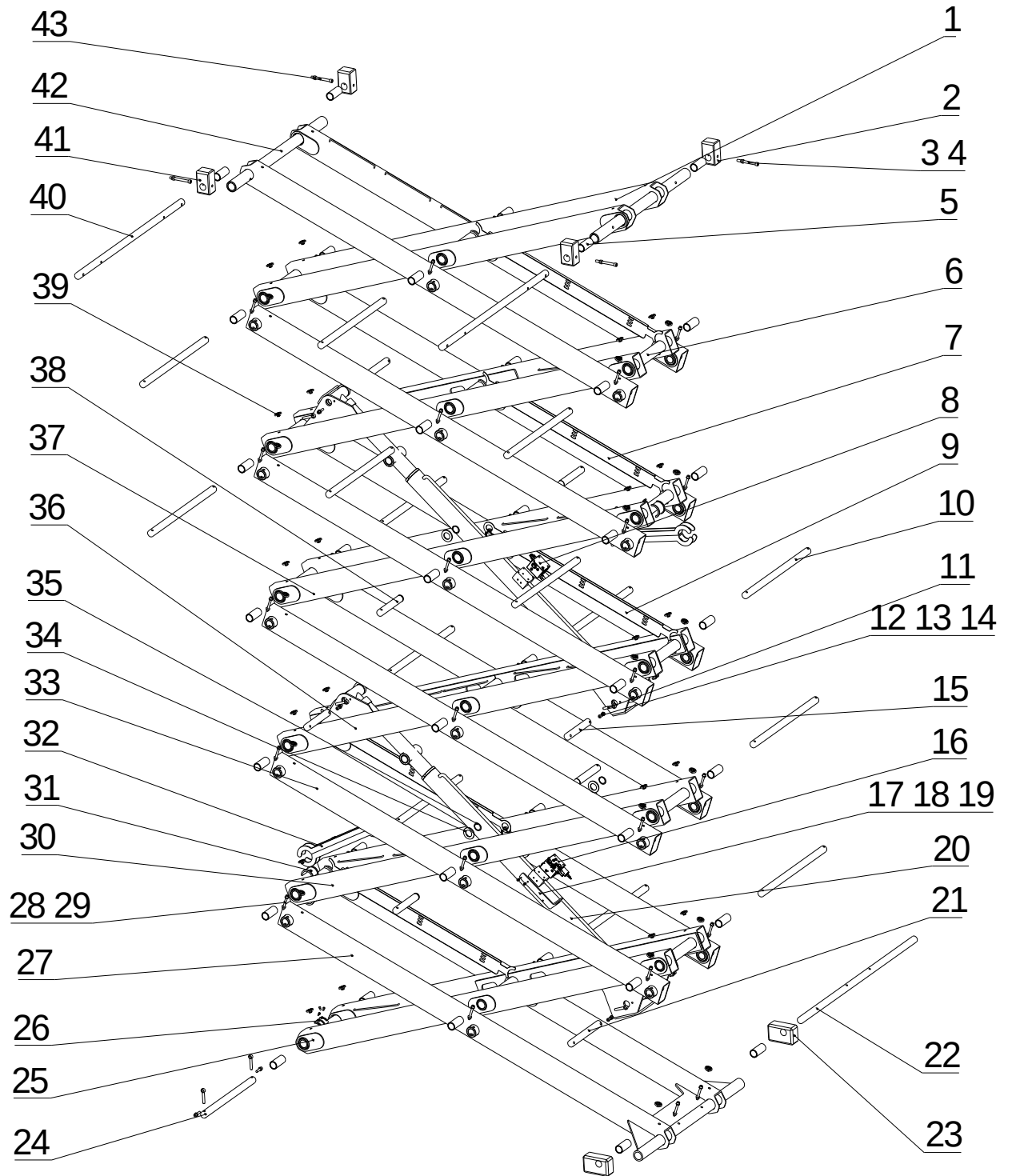


Steering Cylinder Installation Components (80793947)			
No.	Part No.	Description	Qty.
1	80789105	Steering Cylinder TZPJ-202303-2510A-02	1
2	80730463	Nut GB/T70.1-M14X40	4
3	80374700	Washer GB/T93-14	4
4	80376264	Washer GB/T97.1-14	4
5	80793971	Cylinder Pin	2
6	80730480	Ring GB/T894-22	2

2. Scissor Components

Scissor Components

(80987474)



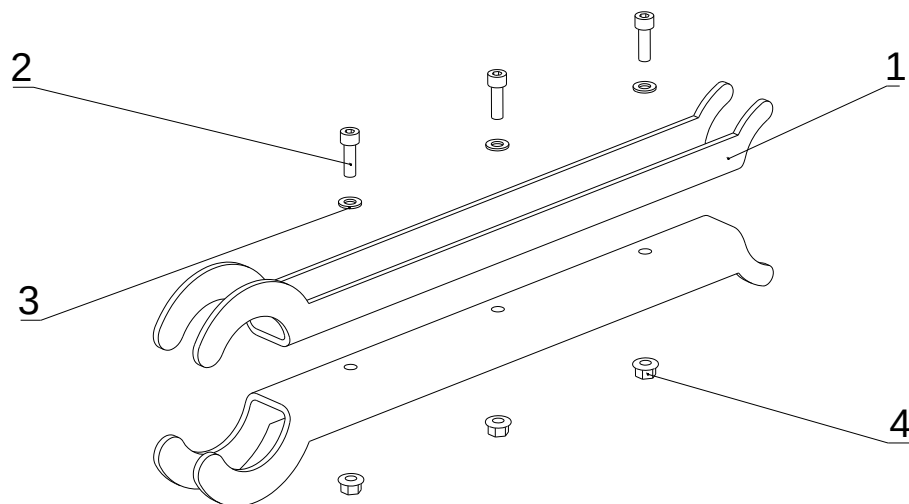
Scissor Components (80987474)			
No.	Part No.	Description	Qty.
1	80819337	Inside Scissor Components 6	1
2	81104700	Upper Sliding Block 1	2
3	80315833	Bolt TZB804-M12X140-8.8	2
4	80908787	Screw GB/T6183.1-M12-8	4
5	80795098	Self-lubricating Sleeve	40
6	80987476	Inside Scissor Components 4	1
7	80819285	Bundling Rack 1	3
8	80902839	Upper Lift Cylinder Control Valve TZPJ-F-SJS-20-001A	1
9	80819346	Bundling Rack 2	2
10	80890440	Scissor Pin Shaft 4	14
11	80890063	Articulated Pin	10
12	80389904	Nut GB/T70.1-M10X40-8.8	10
13	80364186	Washer GB/T97.1-10-200HV	43
14	80184769	Washer GB/T93-10-65Mn	10
15	80929417	Cylinder Pin Shaft 2	3
16	80902834	Lower Lift Cylinder Control Valve TZPJ-F-XJS-20-001A	1

Scissor Components (80987474)			
No.	Part No.	Description	Qty.
17	80929060	Emergency Wire Plate	1
18	80375860	Nut GB/T70.1-M6X12-8.8	6
19	80184780	Washer GB/T93-6-65Mn	6
20	80929897	Lift Cylinder TZPJ-YG-JS-21-80-60-1500-001A	2
21	80890395	Cylinder Pin Shaft 1	1
22	80929363	Scissor Pin Shaft 1	1
23	80890820	Lower Sliding Block	2
24	80890444	Scissor Pin Shaft 2	1
25	80929415	Inside Scissor Components 1	1
26	80890410	Proximity Switch Detection Plate	2
27	80819330	Outside Scissor Components 1	1
28	80485348	Nut GB/T70.1-M10X80-8.8	33
29	80908788	Screw GB/T6183.1-M10-8	33
30	80929416	Inside Scissor Components 2	1
31	80794999	Maintenance Support Sleeve	4
32	80793759	Maintenance Support Rod	2

Scissor Components (80987474)			
No.	Part No.	Description	Qty.
33	80819335	Outside Scissor Components 2	8
34	80730505	Washer GB/T95-36-200HV	2
35	80741834	Ring GB/T894-38-65Mn	4
36	80987477	Inside Scissor Components 3	1
37	80819338	Inside Scissor Components 5	1
38	80890441	Scissor Pin Shaft 3	4
39	80890811	Cushion Pad	44
40	80890419	Platform Bottom Pin Shaft	2
41	80890821	Upper Sliding Block 2	2
42	80819284	Outside Scissor Components 4	1
43	80375854	Nut GB/T70.1-M12X120-8.8	2

Maintenance Support Rod

(80793759)

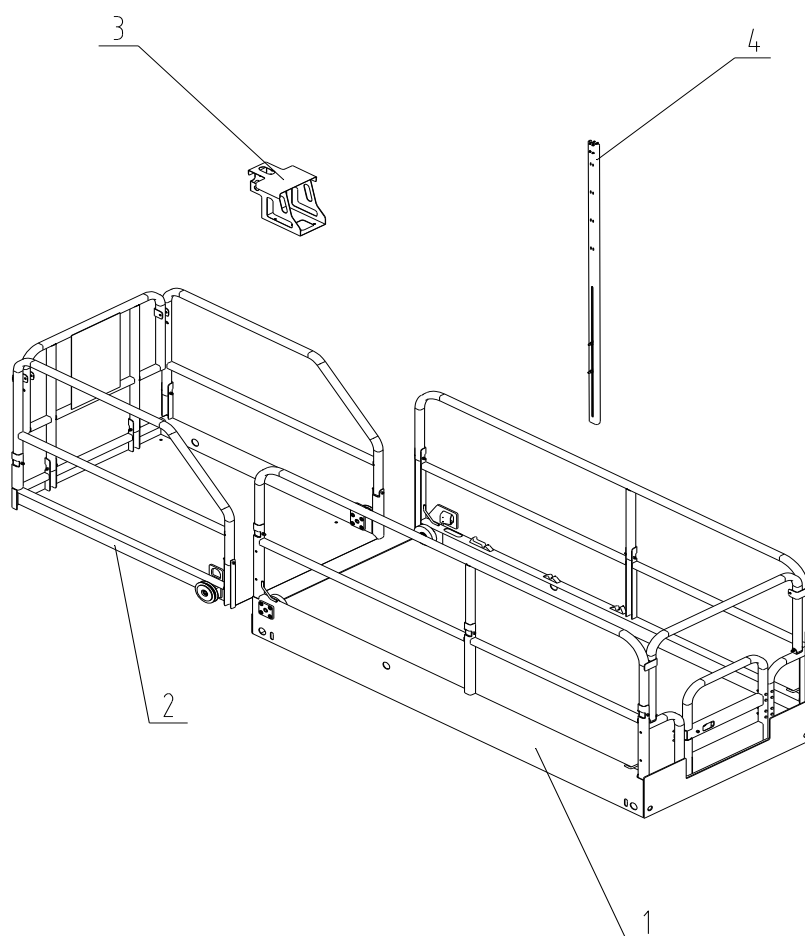


Maintenance Support (80793759)			
No.	Part No.	Description	Qty.
1	80793773	Plate	2
2	80184695	Nut GB/T70.1-M8X25-8.8	3
3	80307520	Washer GB/T97.1-8-200HV	3
4	80730464	Screw GB/T6187.1-M8-8	3

3. Platform Components

Platform Components

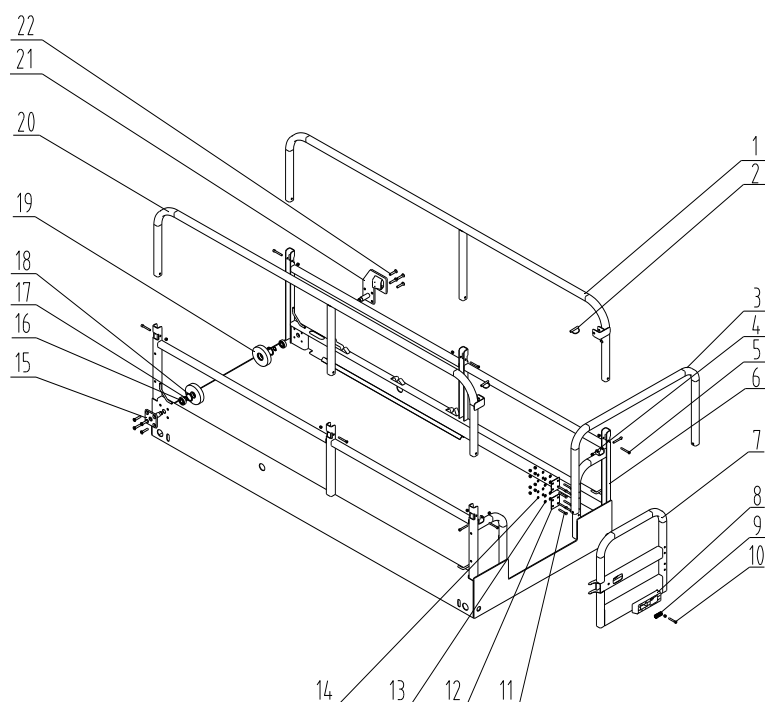
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Platform Components (80987462)			
No.	Part No.	Description	Qty.
1	80987468	Fixed Platform	1
2	80890424	Extended Platform	1
3	80793659	Upper Control Box Rack	1
4	81120946	Anti-bumping Rod Parts	1

Fixed Platform

(80987468)

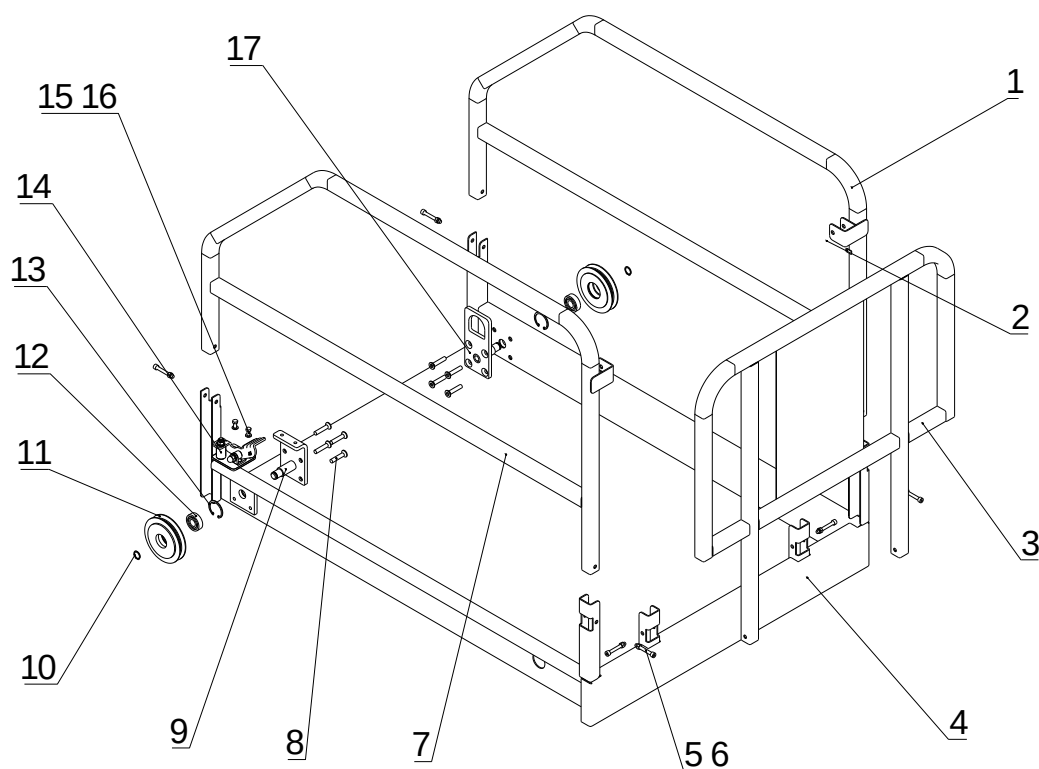


Fixed Platform (80987468)			
No.	Part No.	Description	Qty.
1	80819283	Fixed Platform Right Guardrail	1
2	80655195	Model D Pin with Anti-lost Rope 10X55	2
3	80793729	Square Tube F35 × 2-1983	1
4	80320439	Screw GB/T889.1-M8-8-DKL	17
5	80317790	Nut GB/T70.1-M8 × 60-8.8-DKL	8
6	80819273	Main Fixed Platform	1
7	80793819	Door	1

Fixed Platform (80987468)			
No.	Part No.	Description	Qty.
8	80795000	Door Lock	1
9	80795032	Spring	1
10	80465862	Nut GB/T70.1-M8X50-8.8-DKL	1
11	80660528	Bolt GB/T5783-M8×55-8.8-DKL	8
12	80510787	Spring Hinge	2
13	80307520	Washer GB/T97.1-8-200HV-DKL	8
14	80184778	Washer GB/T93-8-65Mn-DKL	8
15	80793763	Wheel Carrier 1	1
16	80191379	Rolling Bearing 20×47×14	2
17	80730479	Ring GB/T894-20-65Mn-DKL	2
18	80730483	Ring GB/T893-47-65Mn-DKL	2
19	80794990	Pulley 2	2
20	80819281	Fixed Platform Left Guardrail	1
21	80987451	Wheel Carrier 2	1
22	80700264	Nut GB/T70.3-M10×50-8.8-DKL	8

Extended Platform

(80890424)

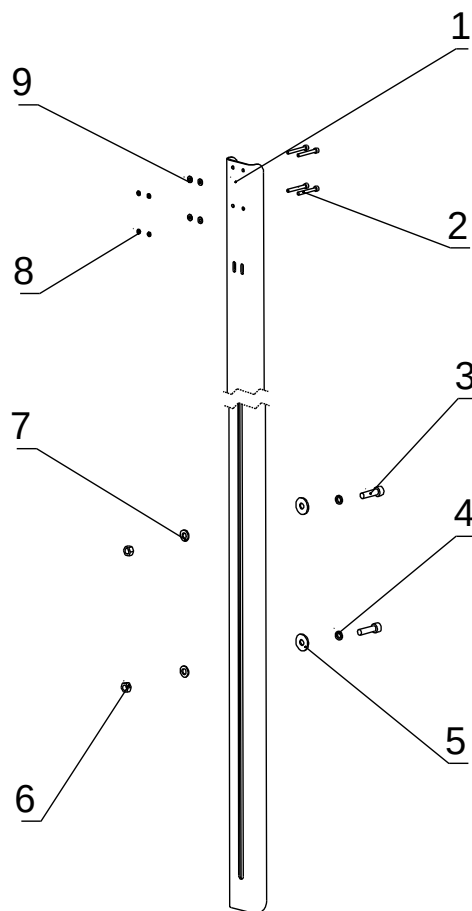


Extended Platform (80890424)			
No.	Part No.	Description	Qty.
1	80890426	Extended Right Guardrail	1
2	80655195	Model D Pin with Anti-lost Rope 10X55	2
3	80793672	Front Guardrail	1
4	80890427	Main Extended Platform	1
5	80317790	Nut GB/T70.1-M8X60-8.8	6

Extended Platform (80890424)			
No.	Part No.	Description	Qty.
6	80320439	Screw GB/T889.1-M8-8	6
7	80890425	Extended Left Guardrail	1
8	80700264	Nut GB/T70.3-M10X50-8.8	8
9	80793760	Foot Support	1
10	80730479	Ring GB/T894-20-65Mn	2
11	80794995	Pulley 1	2
12	80191379	Rolling Bearing GB/T276-6204-2Z	2
13	80730483	Ring GB/T893-47-65Mn	2
14	80591123	Platform Extension Lock	1
15	80327395	Bolt GB/T5783-M8X16-8.8	2
16	80307520	Washer GB/T97.1-8-200HV	2
17	80793704	Extended Platform Wheel Carrier 2	1

Anti-bumping Rod Parts

(81120946)



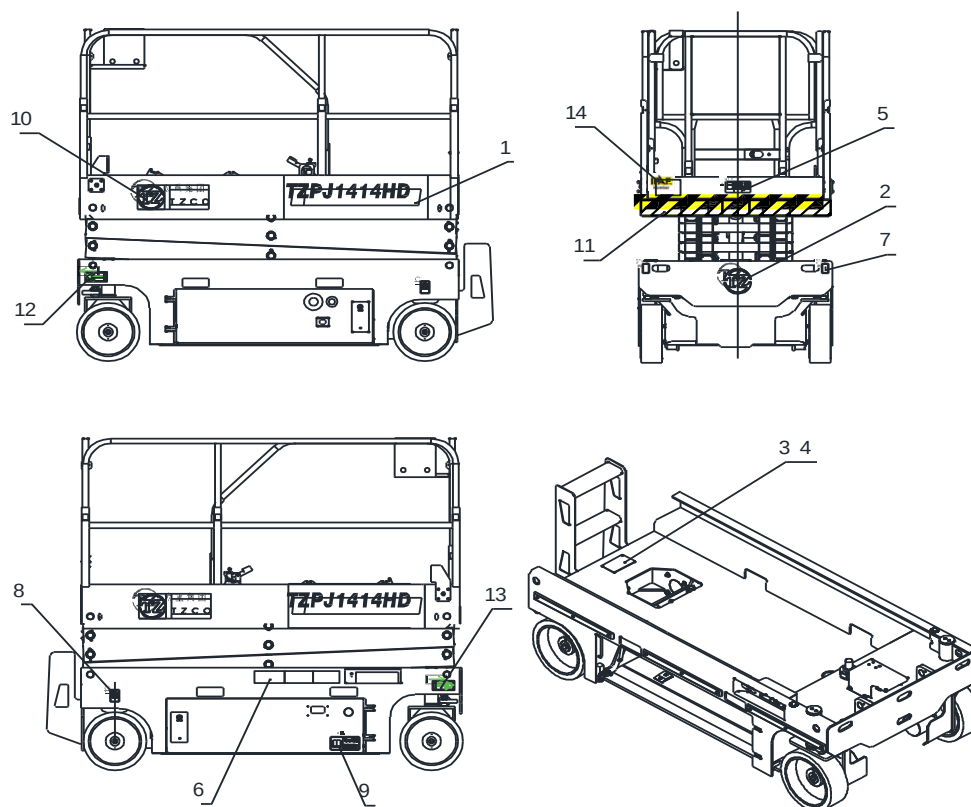
Anti-bumping Rod Parts (81120946)			
No.	Part No.	Description	Qty.
1	81120974	Plate	1
2	81124092	Nut GB/T70.1-M4X35	4
3	81124091	Nut GB/T70.1-M8X30	2
4	81124005	Washer GB/T93-8	2
5	81124011	Washer GB/T96.1-8	2

Anti-bumping Rod Parts (81120946)			
No.	Part No.	Description	Qty.
6	81124170	Screw GB/T6170-M8	2
7	80307520	Washer GB/T97.1-8	2
8	81124003	Washer GB/T93-4	4
9	81124182	Washer GB/T97.1-8	4

4. Nameplate and Marks

Nameplate and Marks

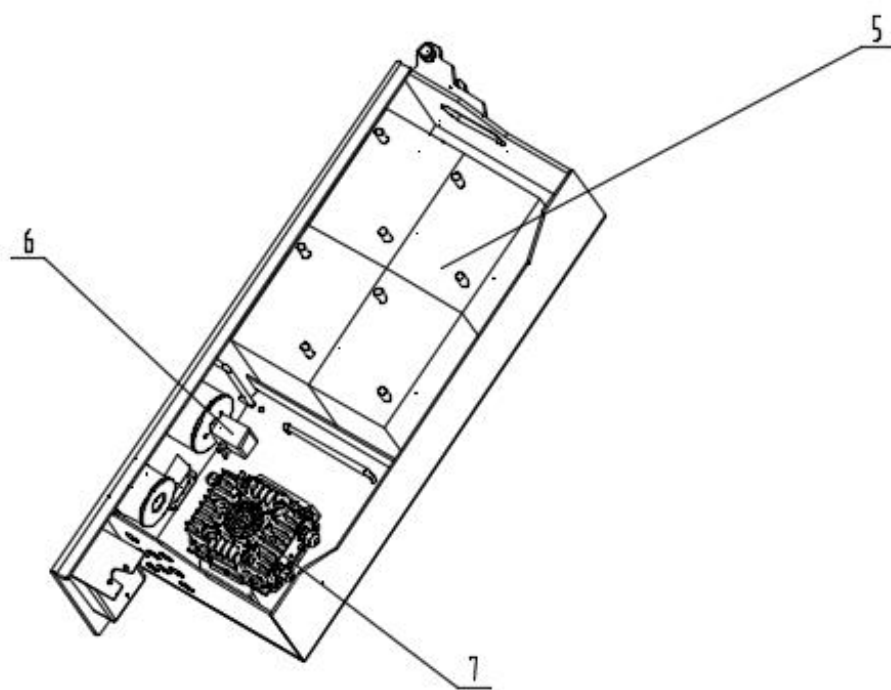
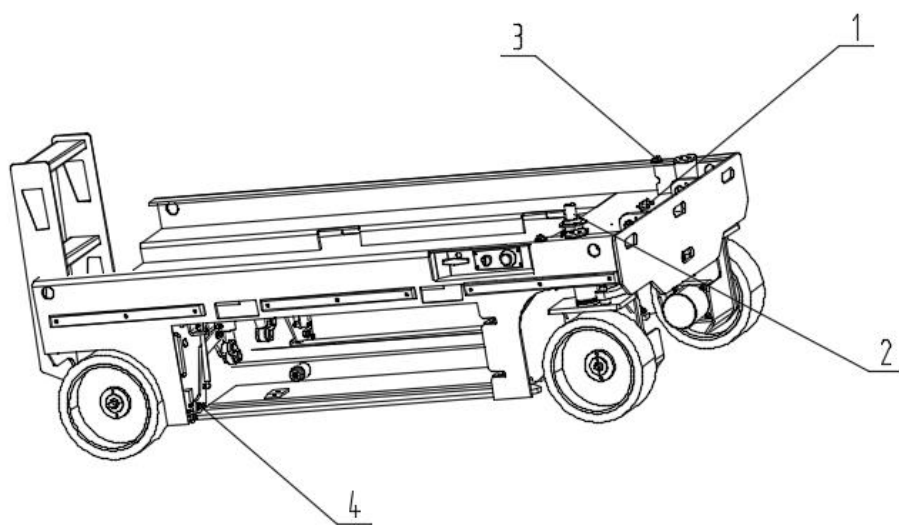
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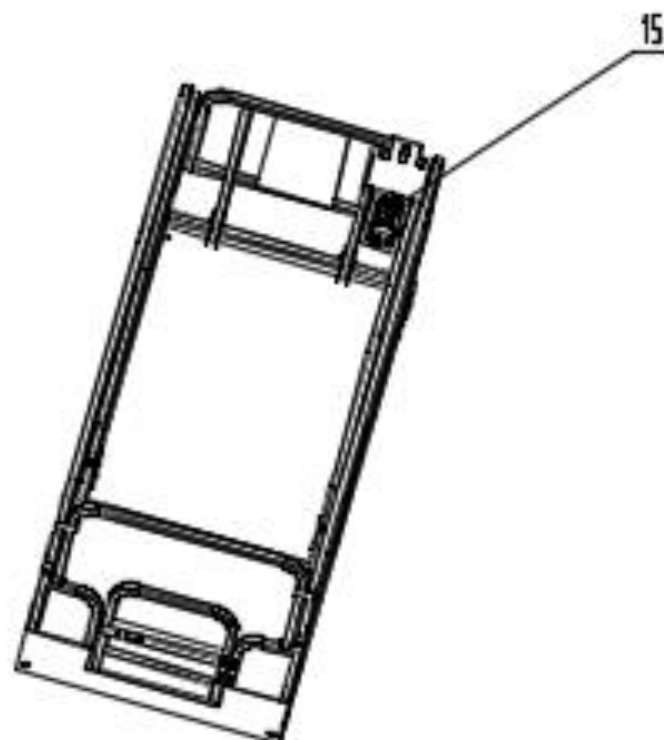
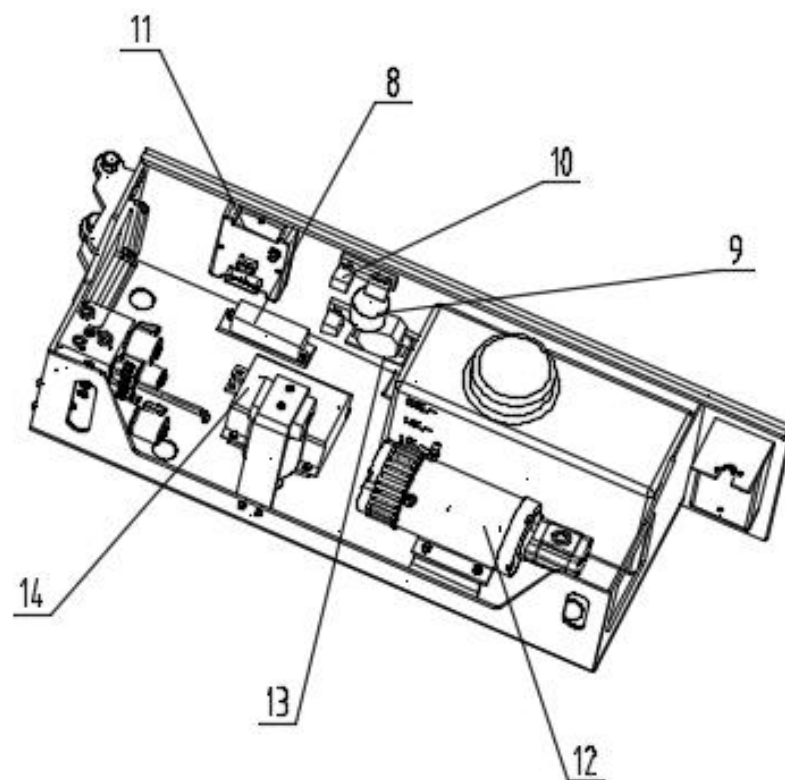


Nameplate and Marks (81067395)			
No.	Part No.	Description	Qty.
1	80930634	Model Code	2
2	80795025	TZ Mark	1
3	80930635	Product Nameplate	1
4	80379153	Blind Rivet GB/T12618.1-4X16	4
5	81068753	Load Sign	1

Nameplate and Marks (81067395)			
No.	Part No.	Description	Qty.
6	81067843	Warning Sign	1
7	81063649	Lift Sign	4
8	81068752	Tire Load Sign	2
9	81063651	Warning Words	1
10	81067842	TZCO Logo	2
11	80795037	Warning Tape	2
12	81063646	Heading Sign	1
13	81063654	Heading Sign 2	1
14	81113752	IPAF Sign	1

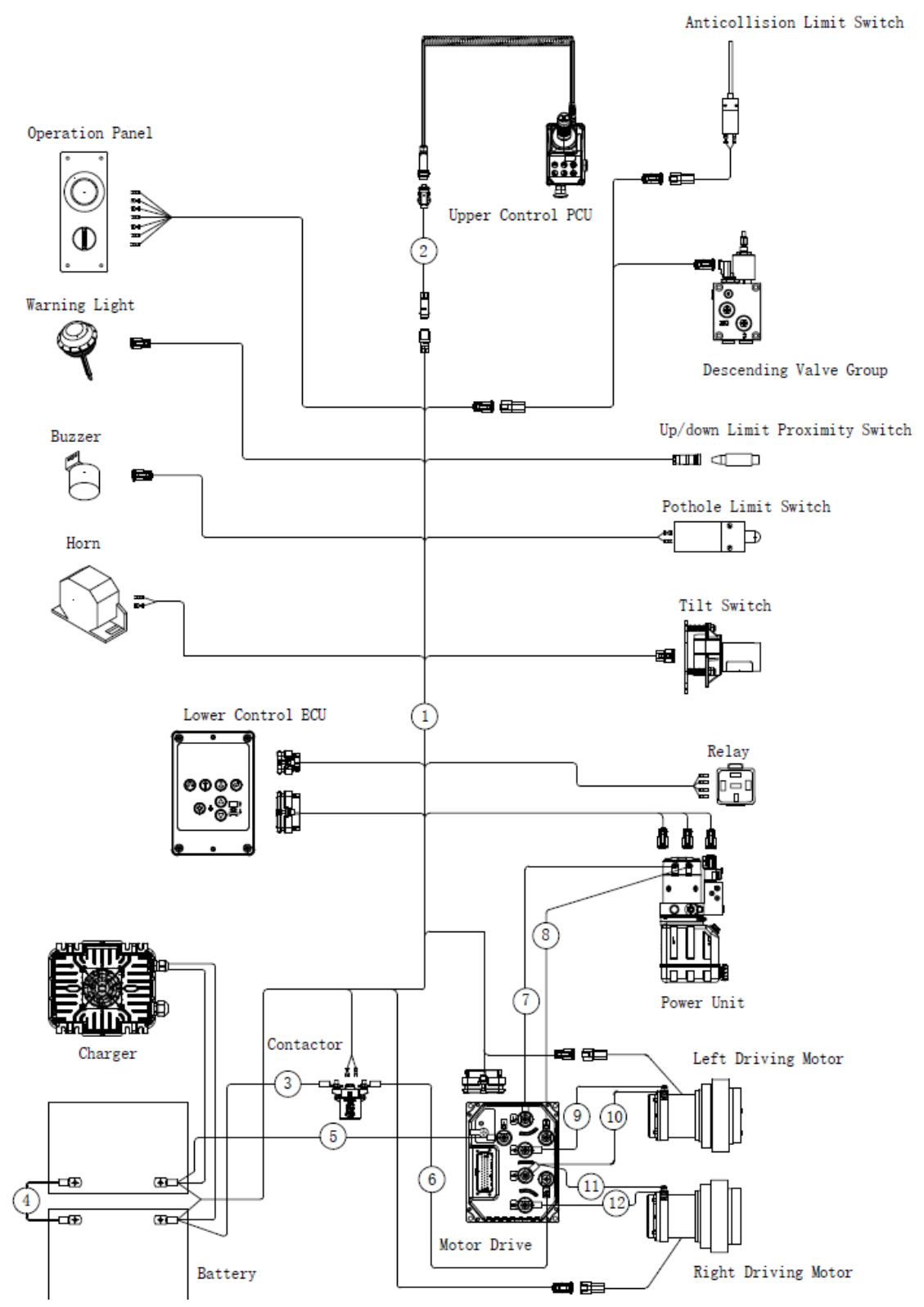
5. Electrical System





Electrical System Components (81058661)			
No.	Part No.	Description	Qty.
1	81075600	Proximity Switch XS112BHPAM12	2
2	80832231	Tilt Sensor SHSS.SYSH	1
3	80890026	Warning Light GY32	2
4	80500252	Travel Switch XCK N2102P20C	2
5	80736609	Battery DC 6V	4
6	80982553	Emergency Power Off Switch JK250A	1
7	80935408	Charger TZ.TZ-CH03D-2430A	1
8	80723470	Large Bolt Type Fuse ANL-300	1
9	80723471	Buzzer DJB-24B	1
10	81113007	Relay 24Vdc	2
11	80765436	ECU TZ-LZ-ZZJC-ECU-HC	1
12	80965683	Motor for Lifting and Walking Integrated Oil Pump TZPJ-DJ-D-24/24/4.5-001A	1
13	80736721	Horn	1
14	80765437	Drive Unit MCU	1
15	80765435	Motion Unit PCU	1

Electrical Harness (Lead-acid battery)



No.	Part No.	Description		Qty.
1	81068229	Master harness		1
2	81068226	PCU harness		1
3	81068232	Power Supply Harness	Battery to Contactor	1
4			Battery Short Stub	1
5			Battery to Drive B-	1
6			Contactor to Drive BF	1
7			Drive P- to Power Unit Motor	1
8			Drive B+ to Power Unit Motor	1
9			Drive V to Left Driving Motor	1
10			Drive W to Left Driving Motor	1
11			Drive W to Right Driving Motor	1
12			Drive U to Right Driving Motor	1

6. Hydraulic System

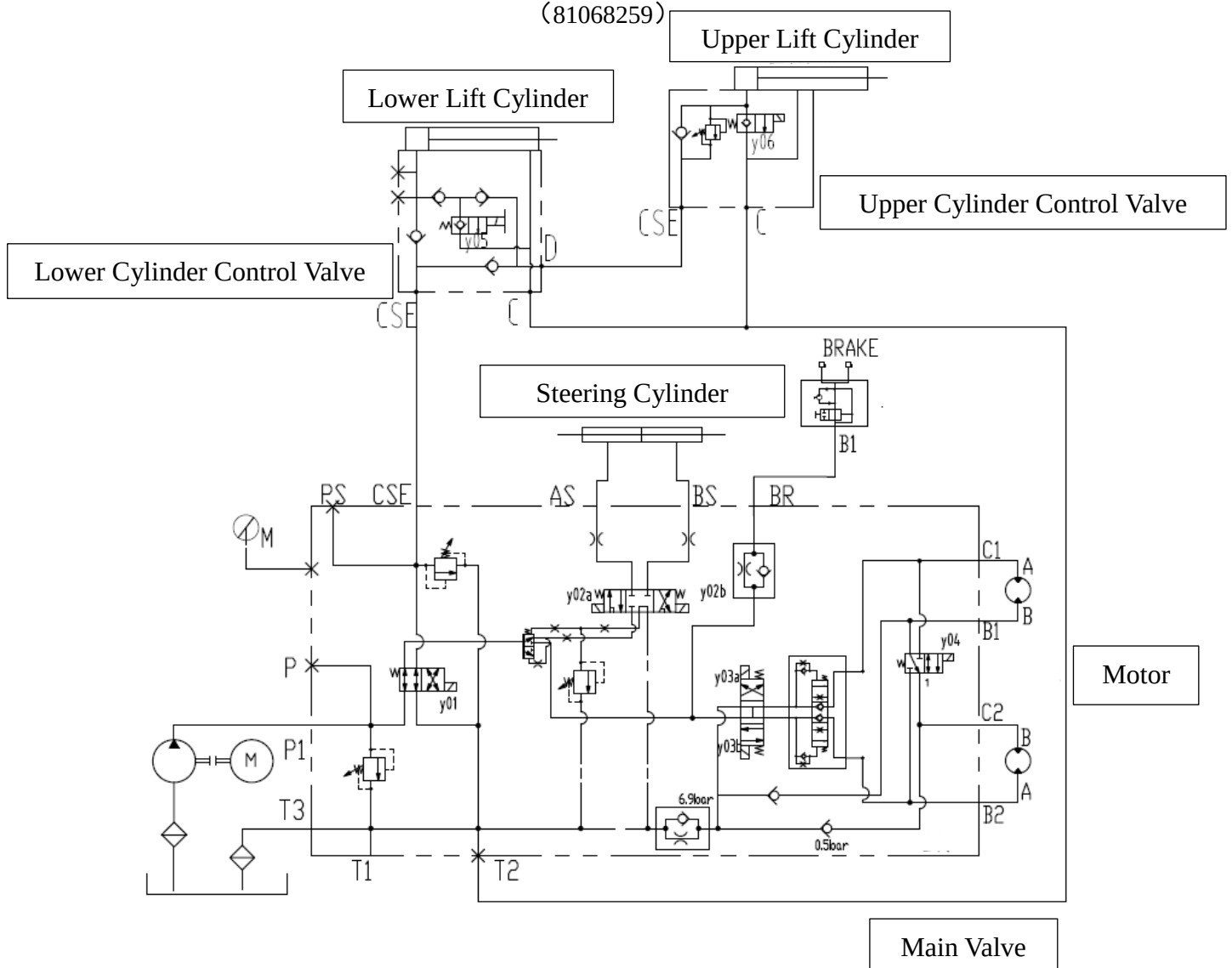
1414HD Hydraulic System

(81069649)

1414HD Hydraulic System			
No.	Part No.	Description	Qty.
1	81068259	Hydraulic Principle Diagram	1
2	81068260	Pipeline Layout	1
3	80825105	Low Temperature Hydraulic Oil	30

14m Hydraulic Principle Diagram

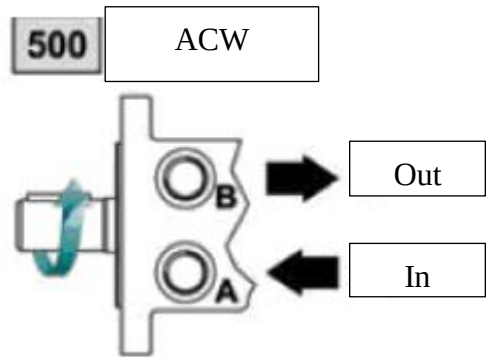
(81068259)



Control Table

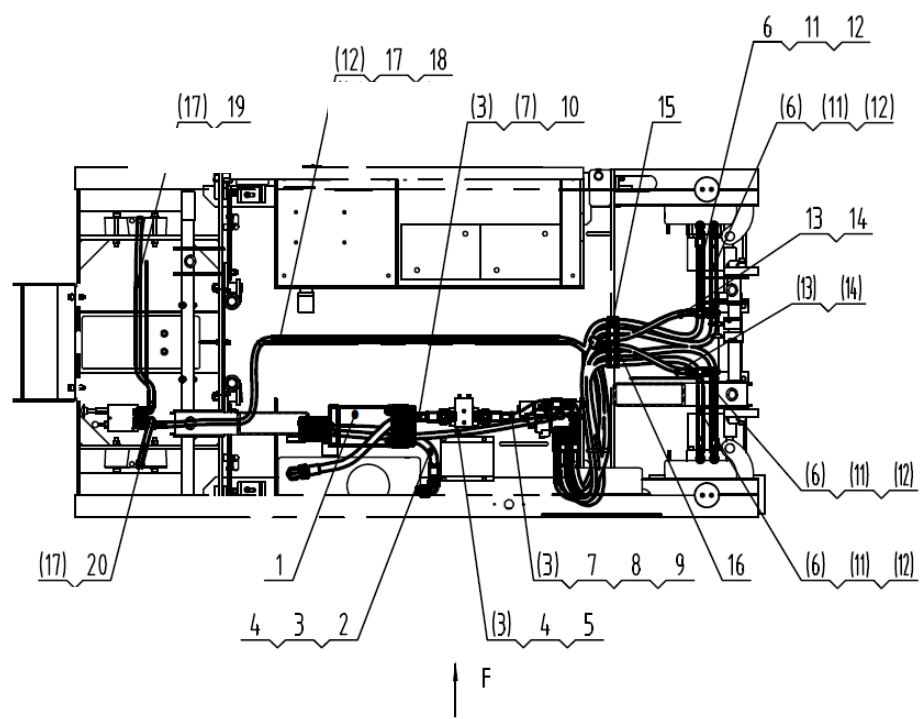
Motion	y01	y02a	y02b	y03a	y03b	y04	y05	y06
SC Turns Right		+						
SC Turns Left			+					
LC Lifts	+							
LC Descends							+	+
Drive Forward Full Speed				+				
Drive Backward Full Speed					+			
Drive Forward Half Speed				+		+		
Drive Backward Half Speed					+	+		

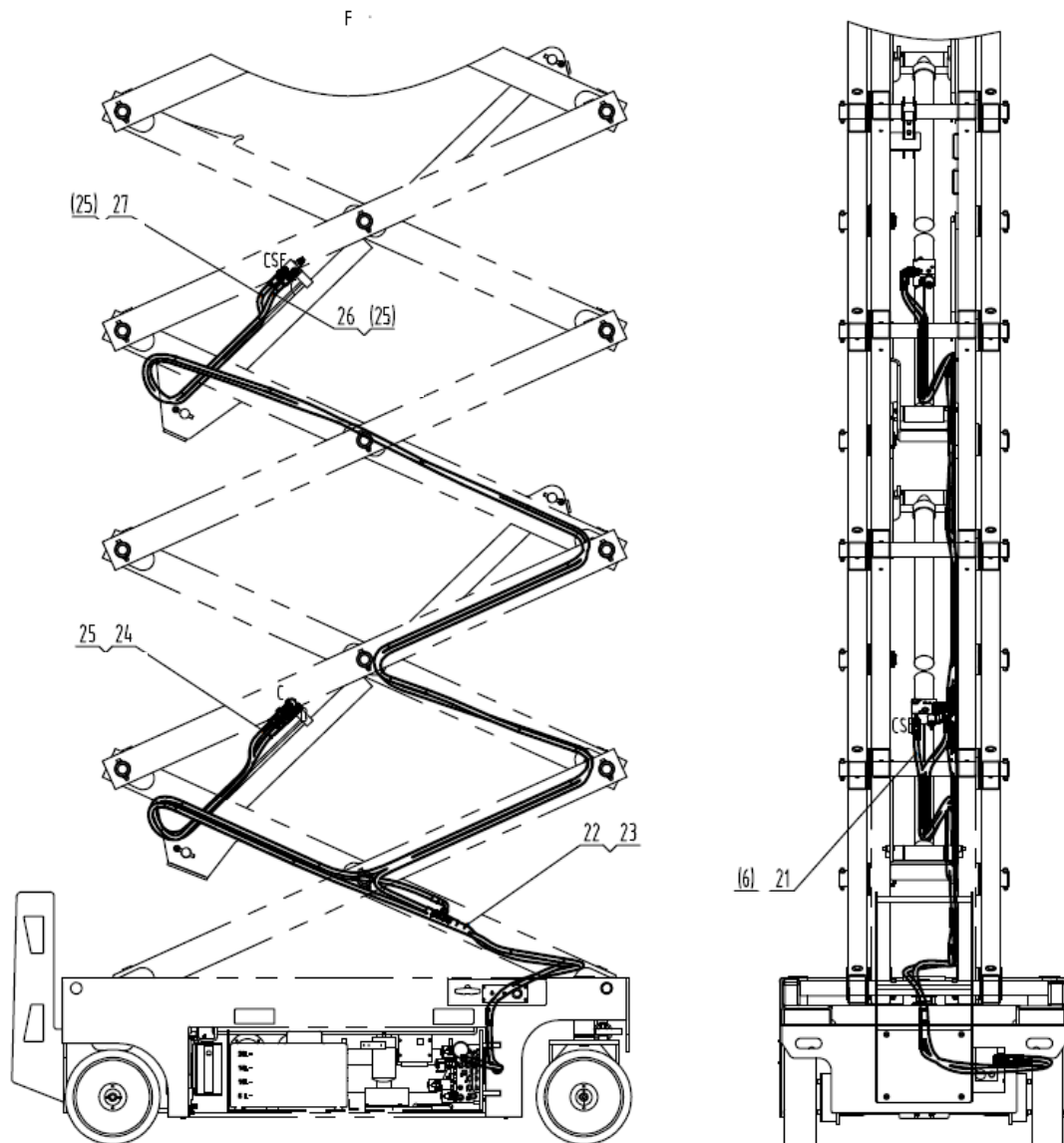
Travel motor rotation direction diagram



Pipeline Layout

(80891687)





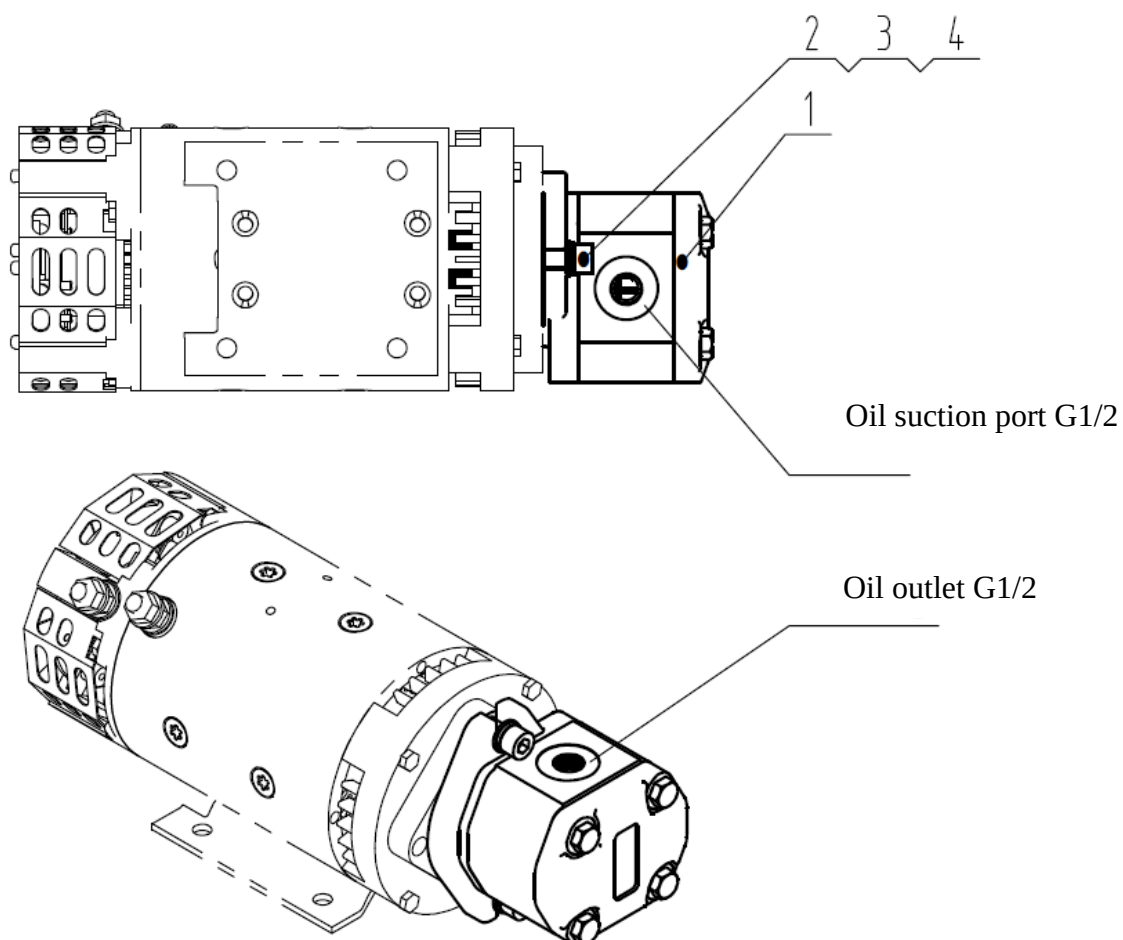
Pipeline Layout			
No.	Part No.	Description	Qty.
1	80986789	Power Unit Assembly	1
2	80741846	Hose Assembly	1
3	80173296	Rectangular Joint	4
4	80173217	Straight End Joint	2

Pipeline Layout			
No.	Part No.	Description	Qty.
5	80987903	Hose Assembly	1
6	80173253	Straight End Joint	11
7	80380283	Straight End Joint	2
8	80930068	Hose Assembly	1
9	80258289	Straight End Joint	2
10	80172144	Hose Assembly	1
11	81068736	Hose Assembly	4
12	80930901	Straight End Joint	4
13	80173251	Straight End Joint	5
14	80987905	Hose Assembly	2
15	80987239	Clamp Assembly	2
16	80987240	Clamp Assembly	1
17	80564558	Hose Assembly	5
18	80987906	Straight End Fitting	1
19	80987908	Hose Assembly	1
20	80987907	Hose Assembly	1

Pipeline Layout			
No.	Part No.	Description	Qty.
21	80987909	Hose Assembly	1
22	80987910	Hose Assembly	1
23	80397587	Tee Joint	1
24	81068737	Hose Assembly	1
25	80173301	Rectangular Joint	4
26	80987911	Hose Assembly	1
27	80987912	Hose Assembly	1
28	81126221	Nylon Binding Tape	100

Power Unit Assembly

(80986789)



Power Unit Assembly			
No.	Part No.	Description	Qty.
1	80965746	5cc Gear Pump	1
2	80364186	Washer	2
3	80184769	Washer	2
4	80966468	Hexagon Socket Round Head Full Thread Screw	2