

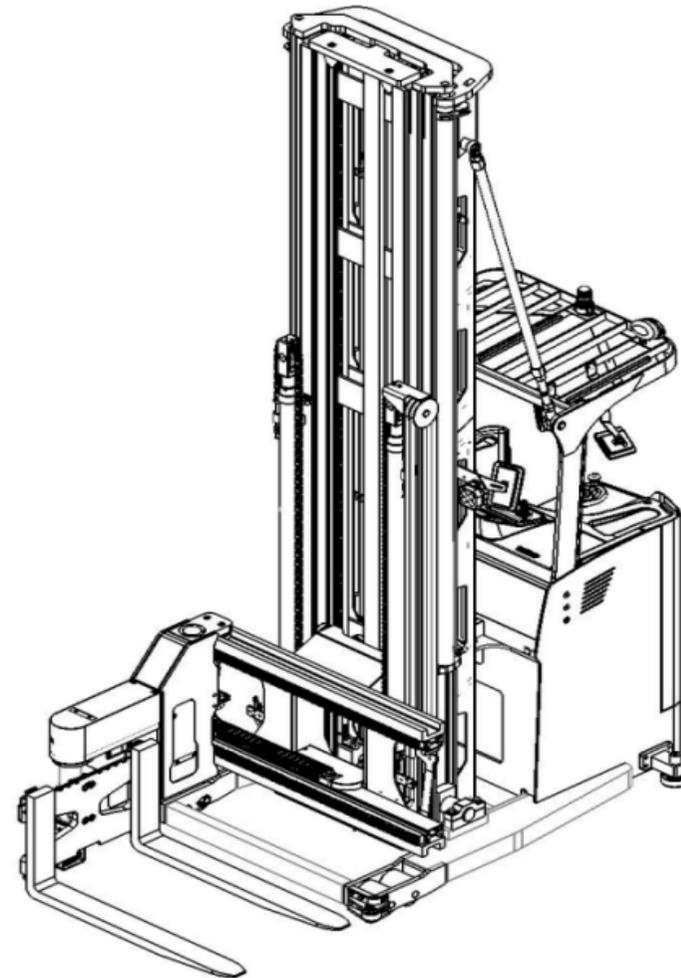
MiMA[®]

Min. Space, Max. Performance!

Part List

MC Series

ELECTRIC 3-WAY PALLET STACKER



Banyitong Science & Technology Developing Co., Ltd

Instruction

1. This Parts Catalog contains the main parts of the MC series electric 3-way pallet stacker.
2. The time of part change is indicated, for example, "-2008.8" means the part is used until August 2008, and "2006.10-" means the part is used from October 2006.
3. When ordering parts, please specify the model and factory serial number of the forklift you are using, the part code, name, and order quantity required.
4. To ensure quality, please use parts from our company when repairing or replacing parts.
5. In order to improve product quality, our company will improve certain parts. The improved parts cannot be modified one by one in this catalog in a timely manner. If you want to know more details, please contact our local agents, dealers and after-sales department.

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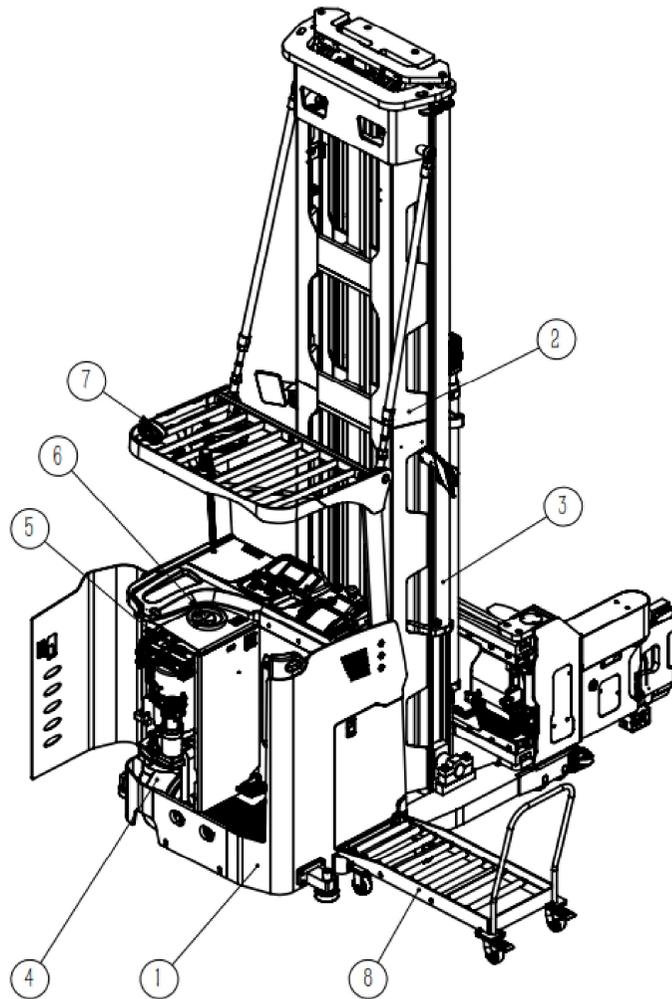
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Figure 0-1 MC12 Electric 3-Way Pallet Stacker

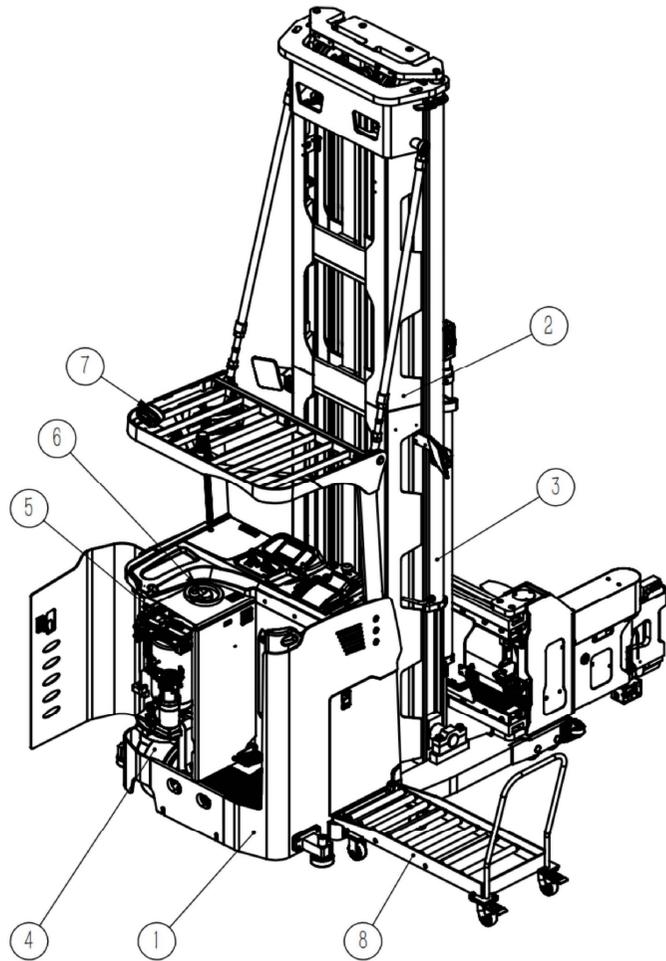
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12F06-BASE	Body systems	1	
2	MC12.2SQ	Lifting systems	1	
3	MC16.3	Hydraulic systems	1	
4	MC16.4	Drive systems	1	
5	MF25.6	Braking systems	1	
6	MC16.6	Steering systems	1	
7	MC12.7	Electrical systems	1	
8	MC16.8	Other systems	1	
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Figure 0-2 MC16 Electric 3-Way Pallet Stacker

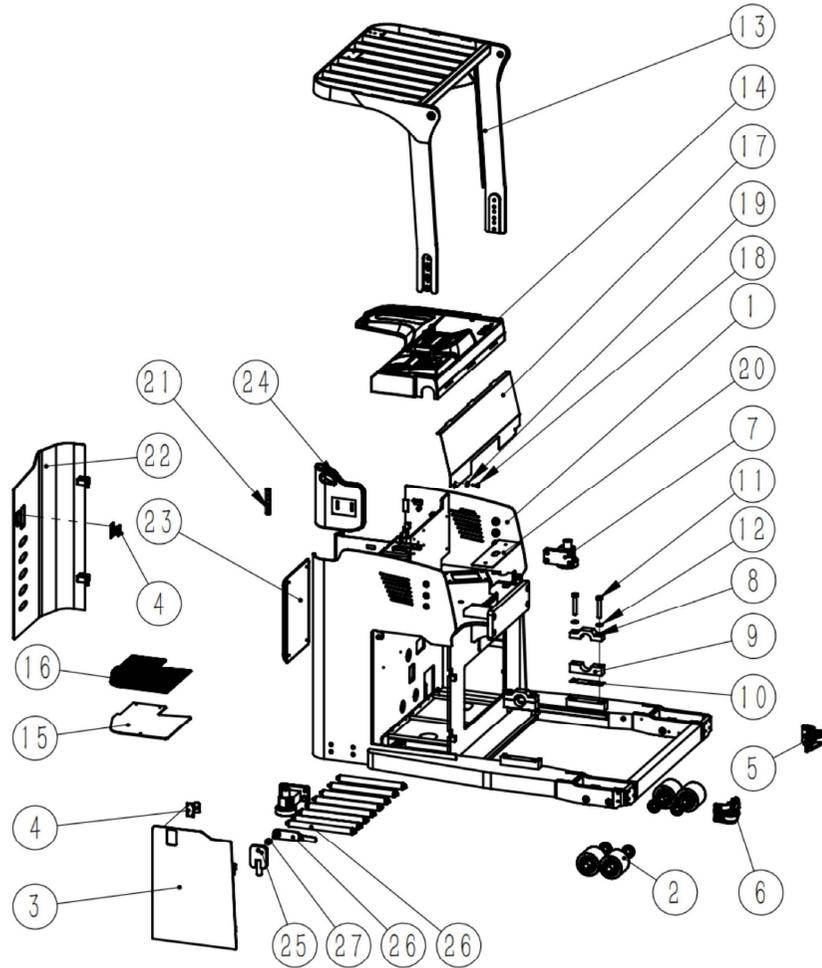
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16F06-BASE	Body systems	1	
2	MC16.2SQ	Lifting systems	1	
3	MC16.3	Hydraulic systems	1	
4	MC16.4	Drive systems	1	
5	MF25.6	Braking systems	1	
6	MC16.6	Steering systems	1	
7	MC16.7	Electrical systems	1	
8	MC16.8	Other systems	1	
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Figure 1-1 MC12.1 Body System

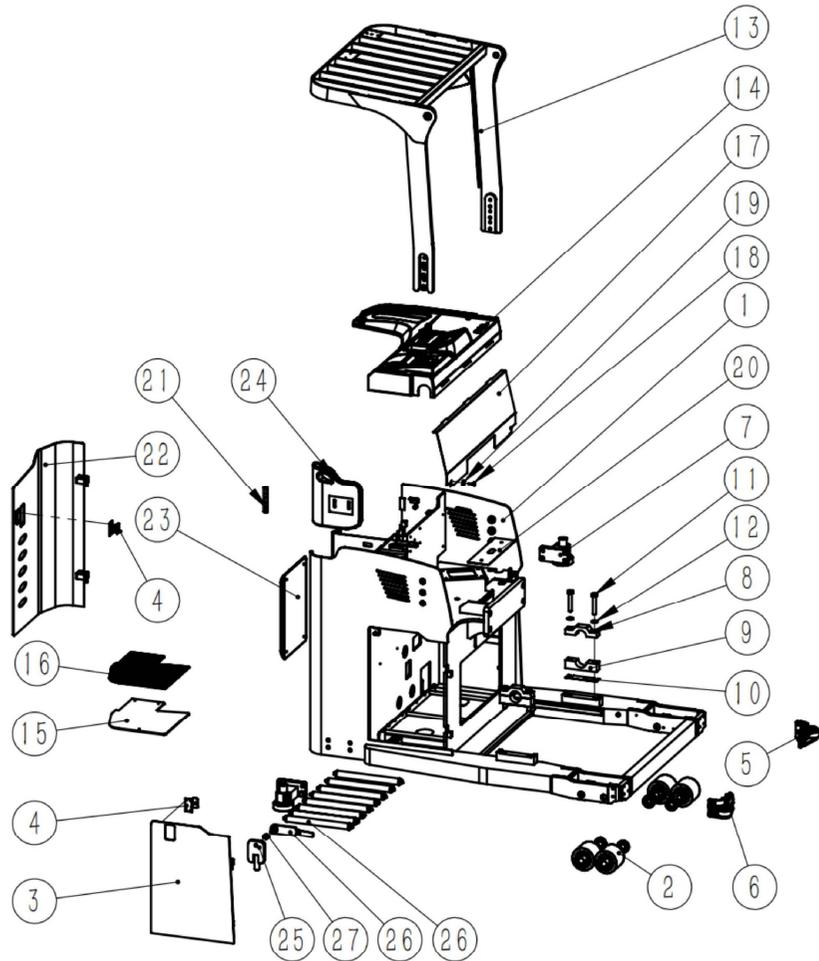
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.1.1F06	Body welds	1	
2	MC12.1.2	Front wheel assembly	2	
3	MC16.1.3.1	Battery door welds	1	
4	TF15.1.16	Door catch assembly	2	
5	MC12.1.4	Left front guide wheel frame assembly	1	
6	MC12.1.5	Right front guide wheel frame assembly	1	
7	MCA16.1.11	Guide wheel assembly	2	
8	MC16.1.7.1	Mast half upper cover	2	
9	MC16.1.7.2	Mast half lower cover	2	
10	MC16.1.7.3	Half pad	several	
11	GB5782 M20×120	Hexagon head bolt	4	
12	GB97.120	Flat washer	4	
13	MC16.1.8	Overhead guard assembly	1	
14	MC16.1.12	Upper cover assembly	1	
15	MC10.1.7.1SQ	Stand plate	1	
16	MC10.1.7.2SQ	Stand plate rubber pad	1	
17	MC16.1.18	Front guard plate	1	
18	GB834 M6×25	Knurled high head screw	1	
19	LP-133 M6	M6 spring nut	2	
20	MC16.1.19	Cover plate	1	
21	MC10.1.10SQ	Mounting plate	1	
22	MF25.1.9.1	Rear door panel welds	1	
23	MF15.1.31	Leg pad	1	
24	MF15.1.32	Backrest	1	

Figure 1-1 MC12.1 Body System

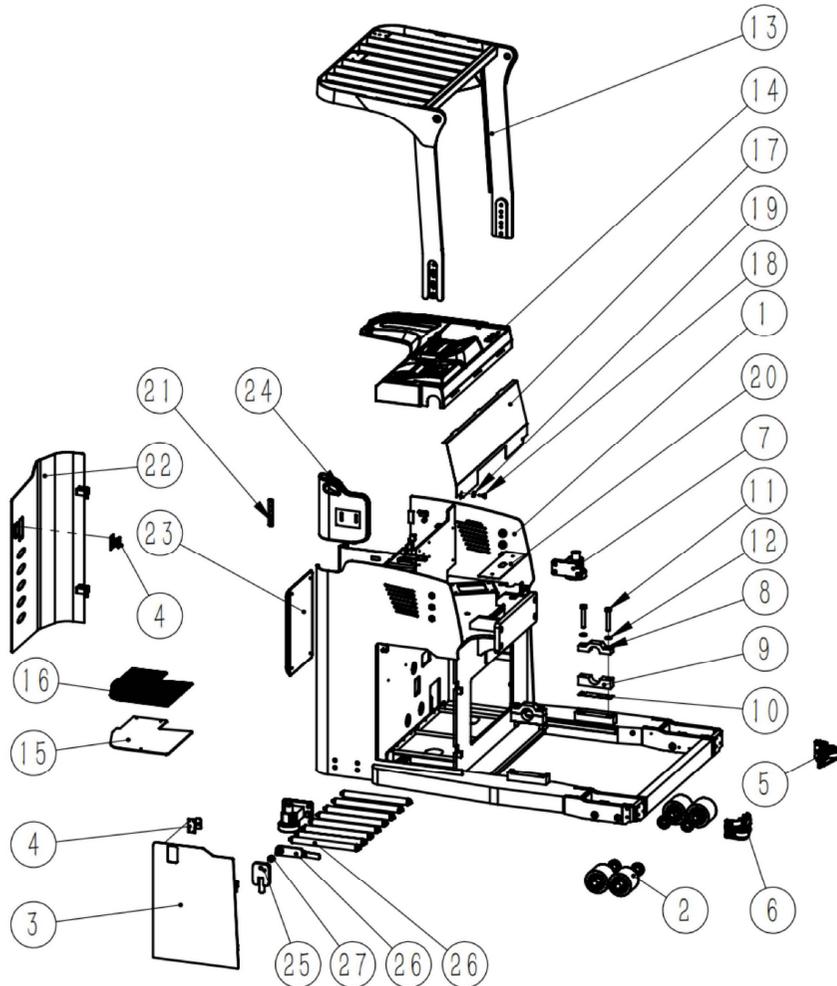
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
25	TFC25.1.22.1	Battery box pin plate welded together	1	
26	TFC25.1.22.2	Pin plate handle welded together	1	
27	GB6170 M20	Type 1 hexagonal nut	1	
28	1.200.SDC.ACB-410W	Drum	8	
29				
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Figure 1-2 MC16.1 Body System

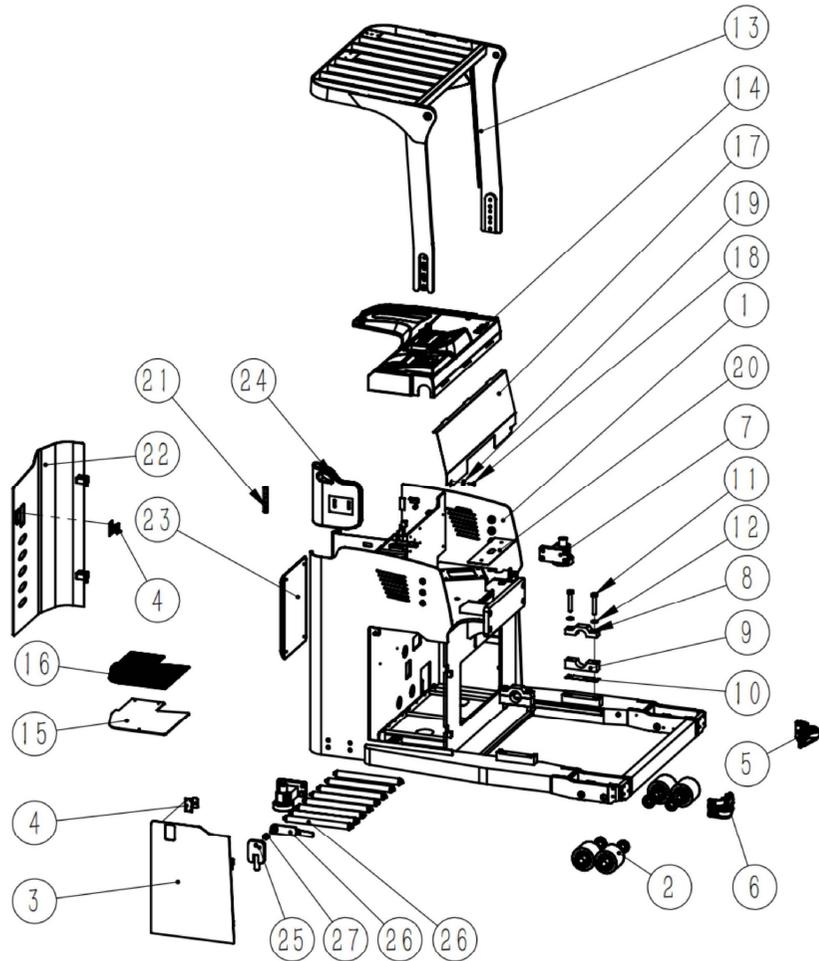
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.1.1F06	Body welds	1	
2	MC16.1.2	Front wheel assembly	4	
3	MC16.1.3.1	Battery door welds	1	
4	TF15.1.16	Door catch assembly	2	
5	MC16.1.4	Left front guide wheel frame assembly	1	
6	MC16.1.5	Right front guide wheel frame assembly	1	
7	MCA16.1.11	Guide wheel assembly	2	
8	MC16.1.7.1	Mast half upper cover	2	
9	MC16.1.7.2	Mast half lower cover	2	
10	MC16.1.7.3	Half pad	several	
11	GB5782 M20×120	Hexagon head bolt	4	
12	GB97.120	Flat washer	4	
13	MC16.1.8	Overhead guard assembly	1	
14	MC16.1.12	Upper cover assembly	1	
15	MC10.1.7.1SQ	Stand plate	1	
16	MC10.1.7.2SQ	Stand plate rubber pad	1	
17	MC16.1.18	Front guard plate	1	
18	GB834 M6×25	Knurled high head screw	1	
19	LP-133 M6	M6 spring nut	2	
20	MC16.1.19	Cover plate	1	
21	MC10.1.10SQ	Mounting plate	1	
22	MF25.1.9.1	Rear door panel welds	1	
23	MF15.1.31	Leg pad	1	
24	MF15.1.32	Backrest	1	

Figure 1-2 MC16.1 Body System

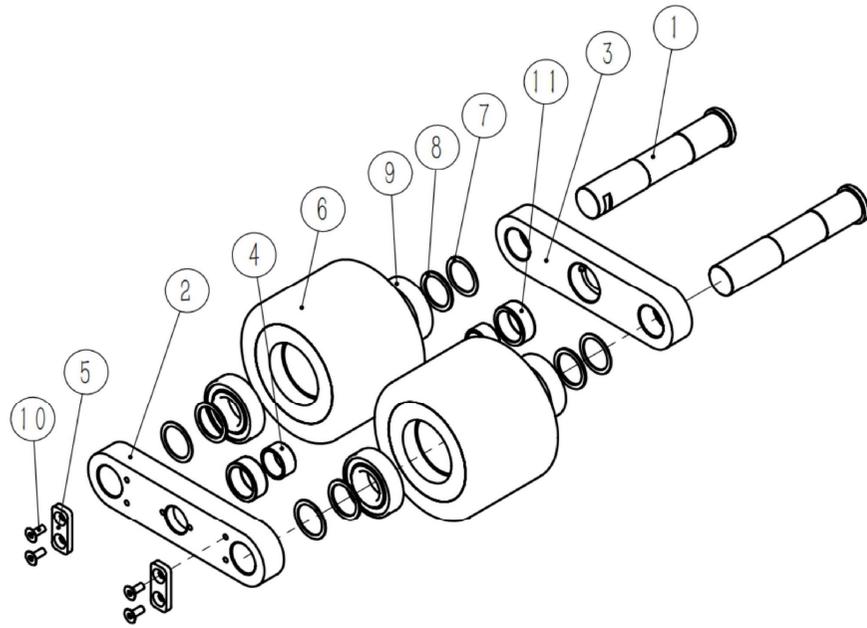
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
25	TFC25.1.22.1	Battery box pin plate welded together	1	
26	TFC25.1.22.2	Pin plate handle welded together	1	
27	GB6170 M20	Type 1 hexagonal nut	1	
28	1.200.SDC.ACB-410W	Drum	8	
29				
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Figure 1-3 MC12.1.2 Front Wheel Assembly

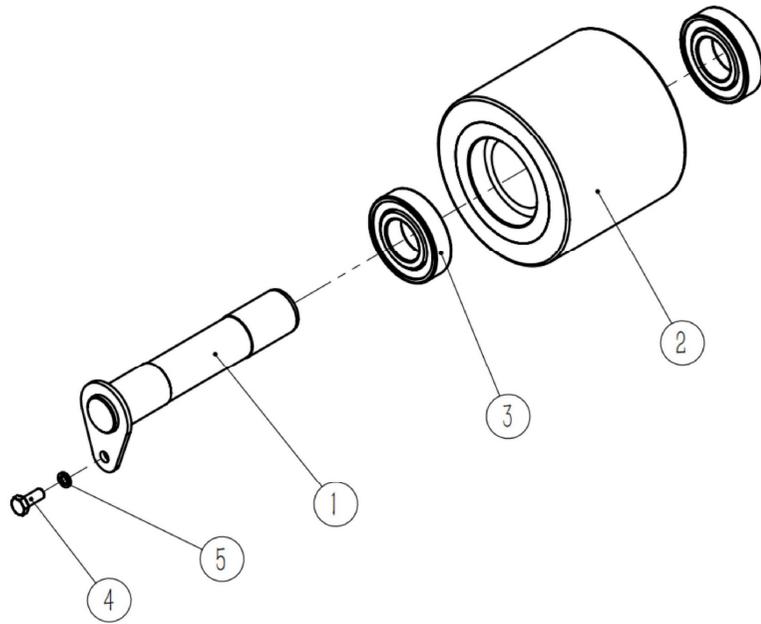
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.1.2.1	Front axle	2	
2	MC12.1.2.2	Inner fender	1	
3	MC12.1.2.3	Outer fender	1	
4	MC12.1.2.4	Spacer	2	
5	MC15.2.5.6.5SQ	Stop plate	2	
6	BCL140×100	Track wheel	2	
7	GT314501	Spacer	4	
8	GT313902	Spacer	4	
9	GB2766206-2Z	Deep groove ball bearing	4	
10	GB70.3 M6×12	Hexagon socket countersunk screw	4	
11	HZ303815	Sliding bearing	2	
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Figure 1-4 MC16.1.2 Front Wheel Assembly

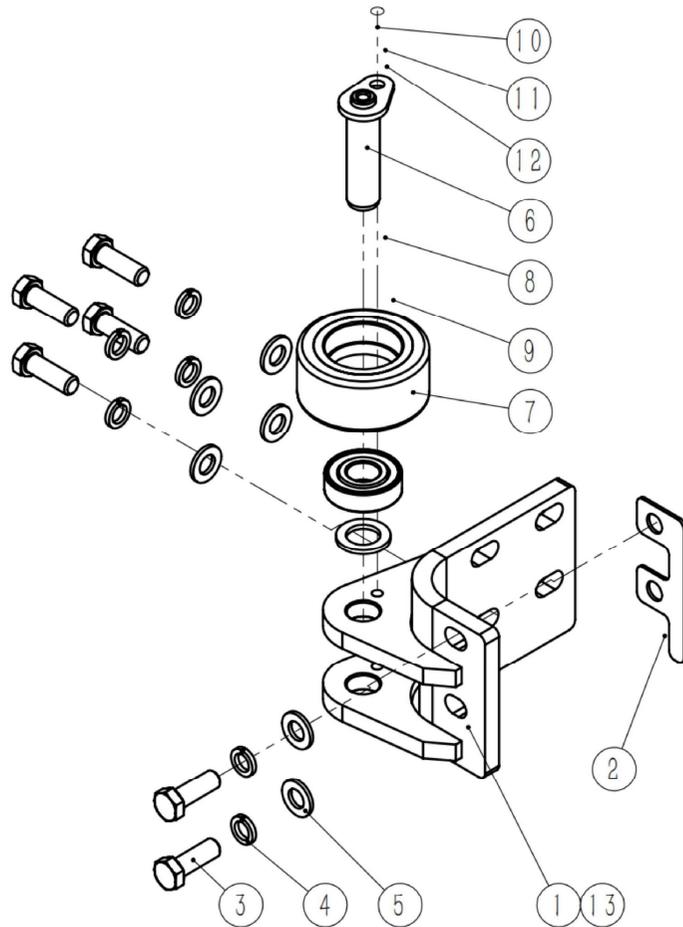
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	TC15.1.2.1SQ	Front wheel lug pin	1	
2	BCL140×127	Loading wheel	1	
3	GB2766207-2Z	Deep groove ball bearing	2	
4	GB5783 M8×20	Hexagon head bolt	1	
5	GB938	Spring washer	1	
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Figure 1-5 MC12.1.4 Left Front Guide Wheel Frame assembly/
MC12.1.5 Right Front Guide Wheel Frame Assembly

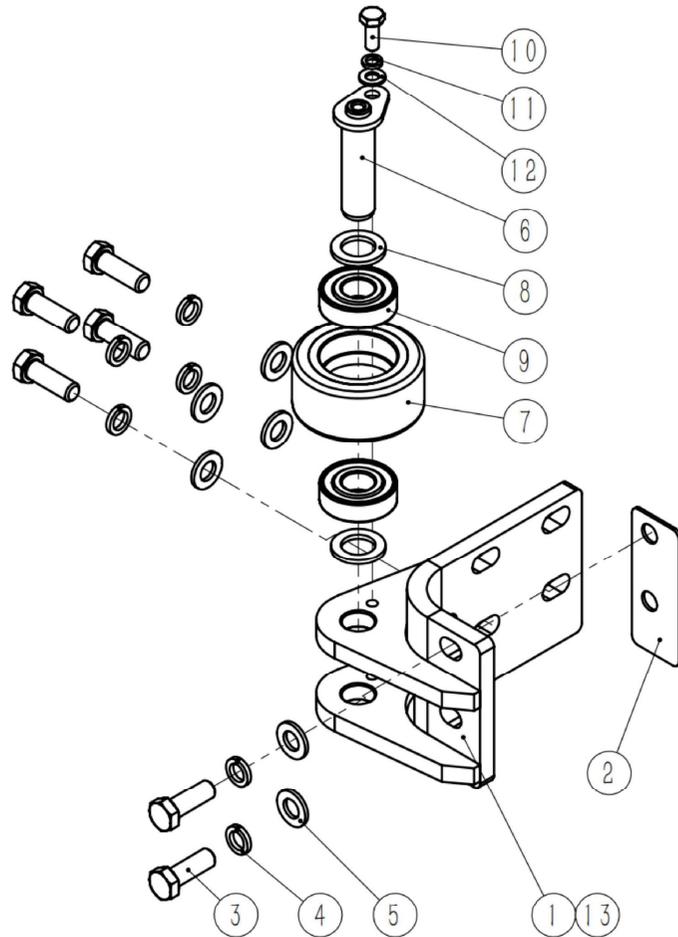
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.1.4.1	Left front guide wheel frame welded together	1	
2	MC12.1.4.2	Guide frame spacer	1	
3	GB5783 M12×35	Hexagon head bolt	6	
4	GB9312	Spring washer	6	
5	GB97.112	Flat washer	6	
6	XZ20-070-LW	Ear plate pin	1	
7	BCL80×36	Loading wheel	1	
8	GT213303	Spacer	2	
9	GB2766204-2Z	Deep groove ball bearing	2	
10	GB5783 M8×20	Hexagon head bolt	1	
11	GB938	Spring washer	1	
12	GB97.18	Flat washer	1	
13	MC12.1.5.1	Right front guide wheel frame welded together	1	Symmetrical parts
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Figure 1-6 MC16.1.4 Left Front Guide Wheel Bracket Assembly/
MC16.1.5 Right Front Guide Wheel Bracket Assembly

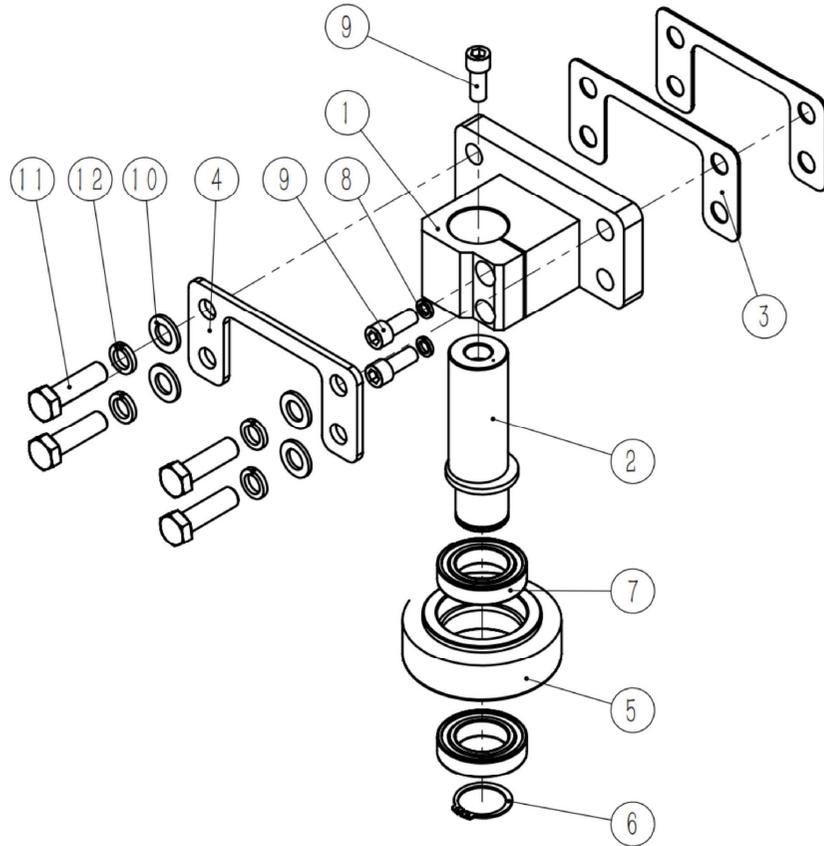
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.1.4.1	Left front guide wheel frame welded together	1	
2	MC16.1.4.2	Guide frame spacer	1	
3	GB5783 M12×35	Hexagon head bolt	6	
4	GB9312	Spring washer	6	
5	GB97.112	Flat washer	6	
6	XZ20-070-LW	Ear plate pin	1	
7	BCL80×36	Loading wheel	1	
8	GT213303	Spacer	2	
9	GB2766204-2Z	Deep groove ball bearing	2	
10	GB5783 M8×20	Hexagon head bolt	1	
11	GB938	Spring washer	1	
12	GB97.18	Flat washer	1	
13	MC16.1.5.1	Right front guide wheel frame welded together	1	Symmetrical parts
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Figure 1-7 MCA16.1.11 Guide Wheel Assembly

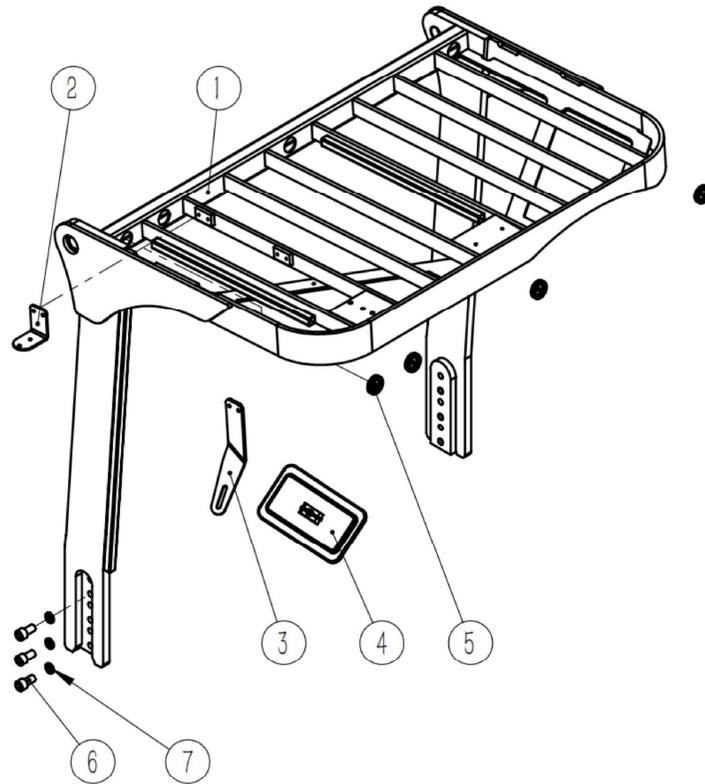
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MCA16.1.11.1-L	Rear guide wheel bracket welded together	1	L=93/143(MC12/MC16)
2	MCA16.1.11.2	Guide wheel shaft	1	
3	MCA16.1.11.3-2	Guide frame plate	2	
4	MCA16.1.11.3-6	Guide frame plate	1	
5	BCL120×35C	Load wheel	1	
6	GB894.140	Shaft circlip	1	
7	GB2766008-2Z	Deep groove ball bearing	2	
8	GB9310	Spring washer	2	
9	GB70.1 M12×30	Hexagon socket head cap screw	3	
10	GB97.116	Flat washer	4	
11	GB5783 M16×60	Hexagon head bolt	4	
12	GB9316	Spring washer	4	
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Figure 1-8 MC16.1.8 Overhead Guard Assembly

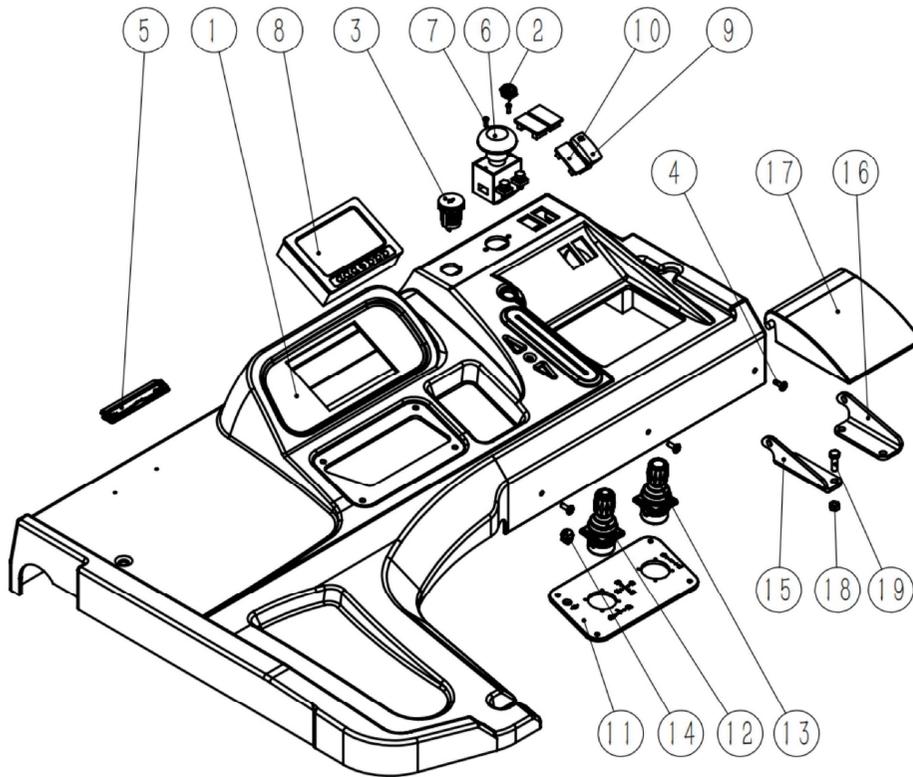
Applicable to MC12 and MC16 Series Vehicles



No.	Code	Name	Qty.	Remarks
1	MC16.1.8.1	Overhead guard welded	1	
2	MC16.1.8.2	Display mounting plate	1	
3	MC16.1.8.3	Rearview mirror mounting bracket	1	
4	EQ140	Rearview mirror assembly	1	
5	TK2030.8.8	Threading rubber ring	4	
6	GB70.1 M16×30	Hexagon socket head screw	6	
7	GB9316	Spring washer	6	
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Figure 1-9 MC16.1.12 Upper Cover Assembly

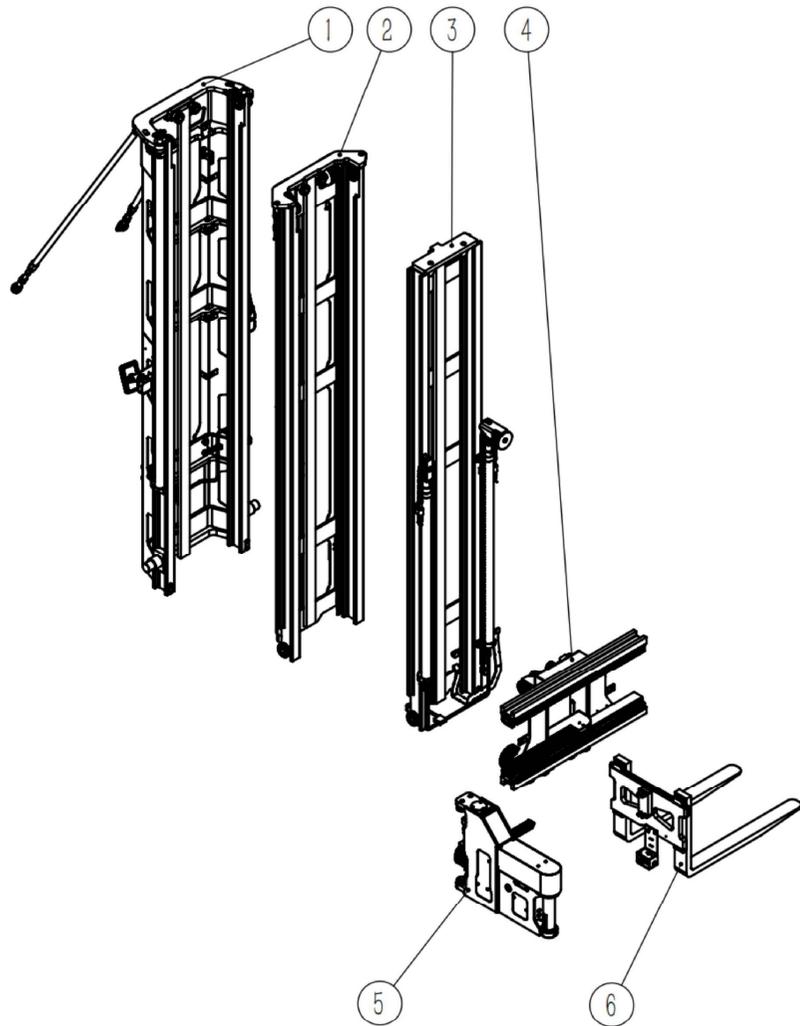
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.1.12.1	Upper cover, purchased components	1	
2	ZS19H-10-R	High-strength push button switch	1	
3	C832833B700	In-vehicle USB charger socket	1	
4	DB-S M6×16	Chamfered hexagon socket screw	4	
5	120J	File folder	1	
6	ZDK31-250	DC power switch	1	
7	GB70.2 M4×12	Hexagon socket flat head screw	2	
8	JCP200-050A	In-vehicle display	1	See label for specific part number
9	CV1B2A50B-1AZWG-100	Rocker switch	1	
10	VHP	Rocker switch cover	3	
11	MC10.1.8.3.1SQE	Single-gang solenoid valve switch mounting plate	1	
12	JC2000-0147-SPL	Cross handle	1	
13	JC2000-0153-SPL	Single-axis handle	1	
14	JS12B-10-L-R	High-strength push button switch (red)	1	
15	TF15.1.5.2	Left armrest support plate	1	
16	TF15.1.5.3	Right armrest support plate	1	
17	TF15.1.5.4	Armrest	1	
18	GB6170 M8	Type 1 hexagon nut	1	
19	GB5783 M8×25	Hexagon head bolt	1	
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Figure 2-1 MC12.2SQ Lifting System

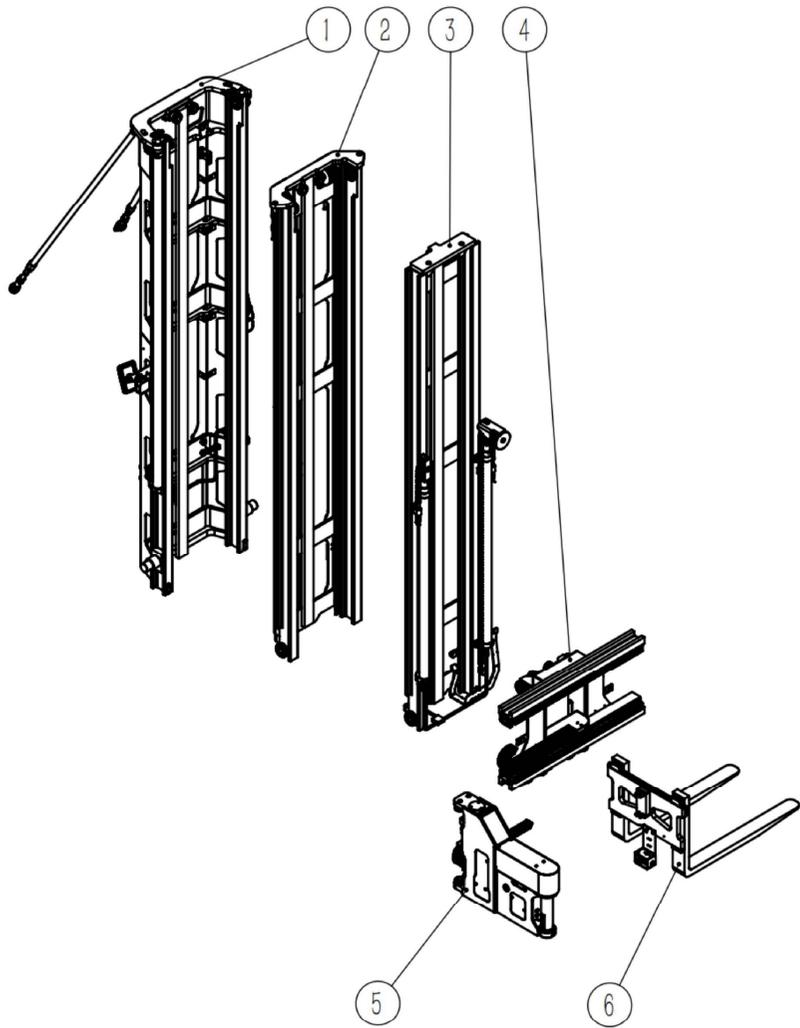
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.1SQ	Outer mast assembly	1	
2	MC12.2.2SQ	Middle mast assembly	1	
3	MC12.2.3SQ	Inner mast assembly	1	
4	MC12.2.4SQ	Inner carriage assembly	1	
5	MC12.2.5E	Bridge assembly	1	
6	MC16.2.6E	Fork and fork carriage assembly	1	
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Figure 2-2 MC16.2SQ Lifting System

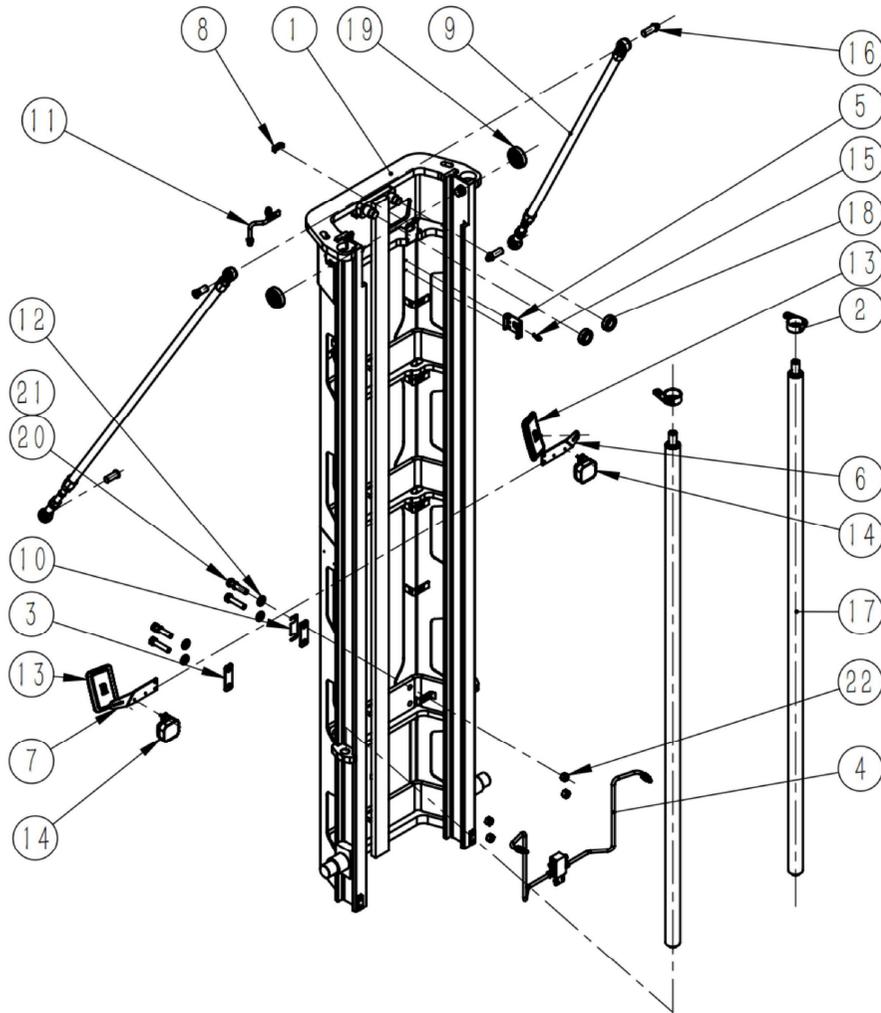
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.1SQ	Outer mast assembly	1	
2	MC16.2.2SQ	Middle mast assembly	1	
3	MC16.2.3SQ	Inner mast assembly	1	
4	MC16.2.4SQ	Inner carriage assembly	1	
5	MC16.2.5E	Bridge assembly	1	
6	MC16.2.6E	Fork and fork carriage assembly	1	
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Figure 2-3 MC12.2.1SQ Outer Mast Assembly

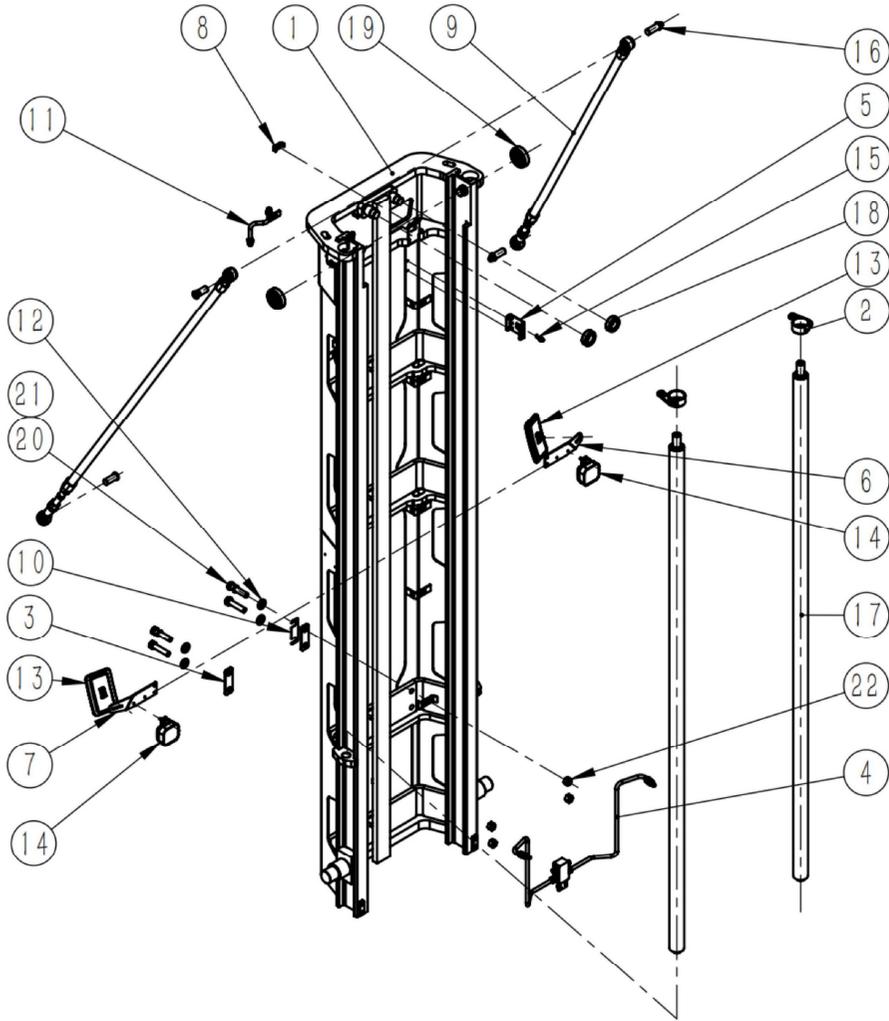
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.1.1SQ	Outer mast welded assembly	1	
2	MC16.2.1.2SQ	Cylinder mounting sleeve welded assembly	2	
3	MC16.2.1.3SQ	Outer mast pad	2	
4	MC12.2.1.4SQ	Outer mast valve block assembly	1	
5	MC16.2.1.5SQ	Limit switch mounting bracket	1	
6	MC16.2.1.6SQ	Left rearview mirror bracket	1	
7	MC16.2.1.7SQ	Right rearview mirror bracket	1	
8	MC16.2.1.8SQ	Wire conduit clamp	1	
9	MC12.2.1.10SQ	Tie rod assembly	2	
10	MC16.2.1.11SQ	Adjustment pad	several	
11	MC16.2.1.12SQ	Outer mast upper steel pipe welded assembly	1	
12	GT255008	Spacer	4	
13	EQ140	Rearview mirror assembly	2	
14	BYT-DD-01-1	LED headlight	2	
15	Ni6-G12-0P6L-4001	Proximity switch assembly	1	
16	XZ30-075-LW	Ear plate pin	4	
17	TM5563-MC-B	Lifting cylinder	2	
18	MG40R1-1M1	Trolley	2	Select according to mast code
19	MG40R3-15M1	Trolley	2	Select according to mast code
20	GB5783 M24×110	Hexagon head bolt	4	
21	GB9324	Spring washer	4	
22	GB6170 M24	Hexagon nut	4	
23				
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Figure 2-4 MC16.2.1SQ Outer Mast Assembly

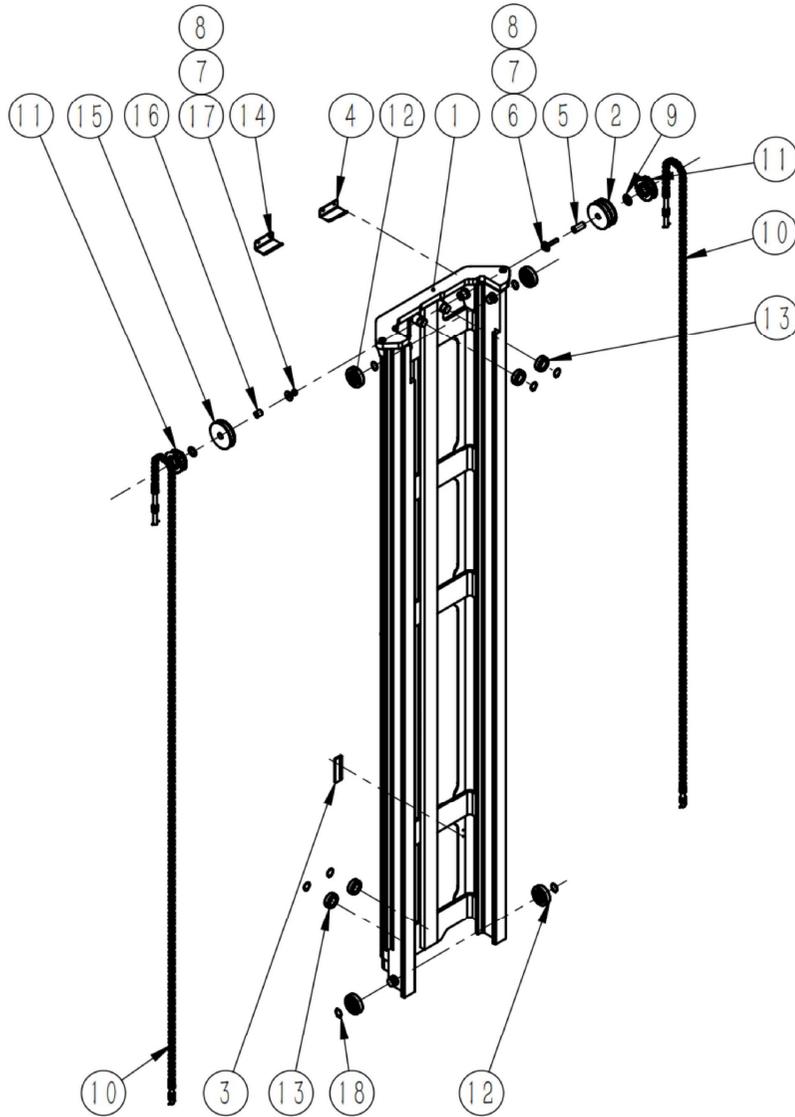
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.1.1SQ	Outer mast welded assembly	1	
2	MC16.2.1.2SQ	Cylinder mounting sleeve welded assembly	2	
3	MC16.2.1.3SQ	Outer mast pad	2	
4	MC16.2.1.4SQ	Outer mast valve block assembly	1	
5	MC16.2.1.5SQ	Limit switch mounting bracket	1	
6	MC16.2.1.6SQ	Left rearview mirror bracket	1	
7	MC16.2.1.7SQ	Right rearview mirror bracket	1	
8	MC16.2.1.8SQ	Wire conduit clamp	1	
9	MC16.2.1.10SQ	Tie rod assembly	2	
10	MC16.2.1.11SQ	Adjustment pad	several	
11	MC16.2.1.12SQ	Outer mast upper steel pipe welded assembly	1	
12	GT255008	Spacer	4	
13	EQ140	Rearview mirror assembly	2	
14	BYT-DD-01-1	LED headlight	2	
15	Ni6-G12-0P6L-4001	Proximity switch assembly	1	
16	XZ30-075-LW	Ear plate pin	4	
17	TM5563-MC-B	Lifting cylinder	2	
18	MG40R1-1M1	Trolley	2	Select according to mast code
19	MG40R3-15M1	Trolley	2	Select according to mast code
20	GB5783 M24×110	Hexagon head bolt	4	
21	GB9324	Spring washer	4	
22	GB6170 M24	Hexagon nut	4	
23				
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Figure 2-5 MC12.2.2SQ Middle Mast Assembly

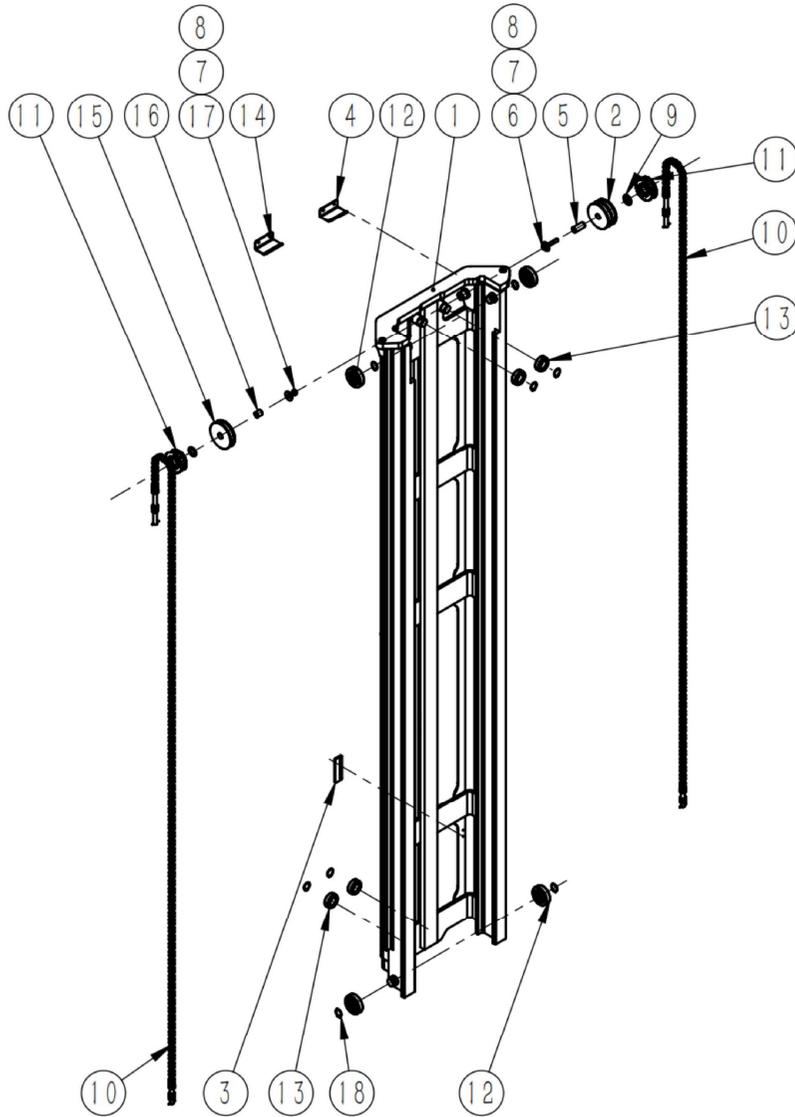
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.2.1SQ	Mast welded together	1	
2	HL30-116-63	Pulley	1	
3	MC16.2.2.5SQ	Induction plate	1	
4	MC16.2.2.6SQ	Anti-slip plate	2	
5	MC16.2.2.7SQ	Spacer	1	
6	GB5782 M16×90	Hexagonal head bolt	1	
7	GB9316	Spring washer	2	
8	GB96.116	Large washer	2	
9	GB97.130	Flat washer	2	
10	LH1623-XXX	Lifting chain assembly	2	
11	CG40R1-10B	Sprocket	2	
12	MG40R3-15M1	Roller	4	Select according to mast code
13	MG40R1-1M1	Trolley	4	Select according to mast code
14	GB5783 M8×20	Hexagonal head bolt	1	
15	HL30-111-35	Pulley	1	
16	MC16.2.2.9SQ	Spacer	1	
17	GB5783 M16×50	Hexagonal head bolt	1	
18	GB894.140	Shaft circlip	8	
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Figure 2-6 MC16.2.2SQ Middle Mast Assembly

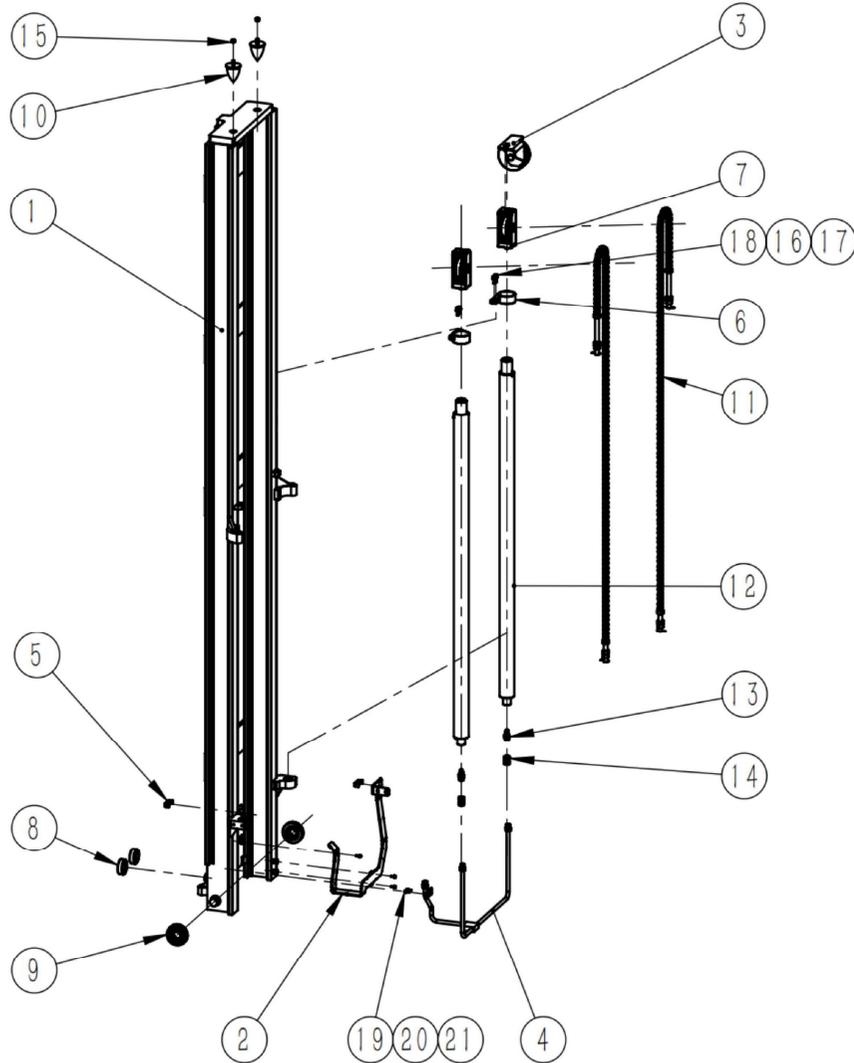
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.2.1SQ	Mast welded together	1	
2	HL30-116-63	Pulley	1	
3	MC16.2.2.5SQ	Induction plate	1	
4	MC16.2.2.6SQ	Anti-slip plate	2	
5	MC16.2.2.7SQ	Spacer	1	
6	GB5782 M16×90	Hexagonal head bolt	1	
7	GB9316	Spring washer	2	
8	GB96.116	Large washer	2	
9	GB97.130	Flat washer	2	
10	LH1623-XXX	Lifting chain assembly	2	
11	CG40R1-10B	Sprocket	2	
12	MG40R3-15M1	Roller	4	Select according to mast code
13	MG40R1-1M1	Trolley	4	Select according to mast code
14	GB5783 M8×20	Hexagonal head bolt	1	
15	HL30-111-35	Pulley	1	
16	MC16.2.2.9SQ	Spacer	1	
17	GB5783 M16×50	Hexagonal head bolt	1	
18	GB894.140	Shaft circlip	8	
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Figure 2-7 MC12.2.3SQ Inner Mast Assembly

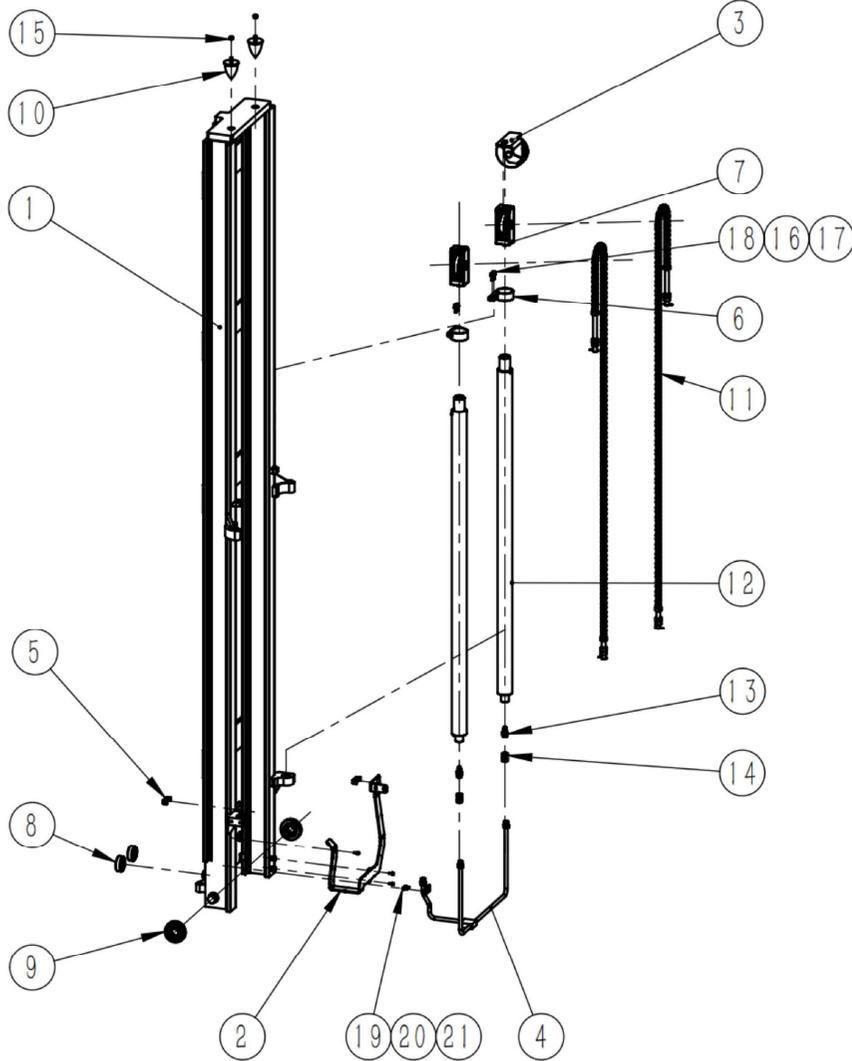
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.3.1SQ	Inner mast welded	1	
2	MC12.2.3.2SQ	Cable routing plate	1	
3	MC16.2.3.4SQ	Left front cylinder pulley assembly	1	
4	MC12.2.3.7SQ	Inner mast steel pipe welded	1	
5	MC16.2.1.8SQ	Cable pipe clamp	2	
6	MC16.2.1.2SQ	Cylinder mounting sleeve welded	2	
7	MC10.2.3.2SQ	Front cylinder sprocket assembly	2	
8	MG40R1-1M1	Roller	2	Select according to mast code
9	MG40R3-15M1	Roller	2	Select according to mast code
10	7589VP37	Shock absorber	2	
11	LH1623-XXX	Lift chain assembly	2	
12	TM5563-MC-F	Lift cylinder	2	
13	BYT-QDF-3t-01	Shut-off valve assembly	2	
14	S3C-22W	Female threaded straight connector	2	
15	GB6170 M12	Type 1 hexagonal nut	2	
16	GB9310	Spring washer	4	
17	GB97.110	Flat washer	4	
18	GB70.1 M10×40	Hex socket head cap screw	4	
19	GB70.1 M6×20	Hex socket head cap screw	5	
20	GB936	Spring washer	5	
21	GB97.16	Flat washer	5	
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Figure 2-8 MC16.2.3SQ Inner Mast Assembly

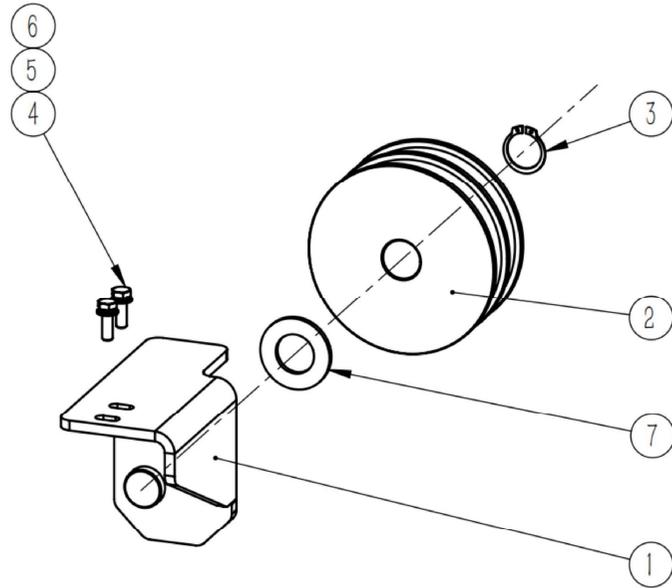
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.3.1SQ	Inner mast welded	1	
2	MC16.2.3.2SQ	Cable routing plate	1	
3	MC16.2.3.4SQ	Left front cylinder pulley assembly	1	
4	MC16.2.3.7SQ	Inner mast steel pipe welded	1	
5	MC16.2.1.8SQ	Cable pipe clamp	2	
6	MC16.2.1.2SQ	Cylinder mounting sleeve welded	2	
7	MC10.2.3.2SQ	Front cylinder sprocket assembly	2	
8	MG40R1-1M1	Roller	2	Select according to mast code
9	MG40R3-15M1	Roller	2	Select according to mast code
10	7589VP37	Shock absorber	2	
11	LH1623-XXX	Lift chain assembly	2	
12	TM5563-MC-F	Lift cylinder	2	
13	BYT-QDF-3t-01	Shut-off valve assembly	2	
14	S3C-22W	Female threaded straight connector	2	
15	GB6170 M12	Type 1 hexagonal nut	2	
16	GB9310	Spring washer	4	
17	GB97.110	Flat washer	4	
18	GB70.1 M10×40	Hex socket head cap screw	4	
19	GB70.1 M6×20	Hex socket head cap screw	5	
20	GB936	Spring washer	5	
21	GB97.16	Flat washer	5	
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Figure 2-9 MC16.2.3.4SQ Left Front Cylinder Pulley Assembly

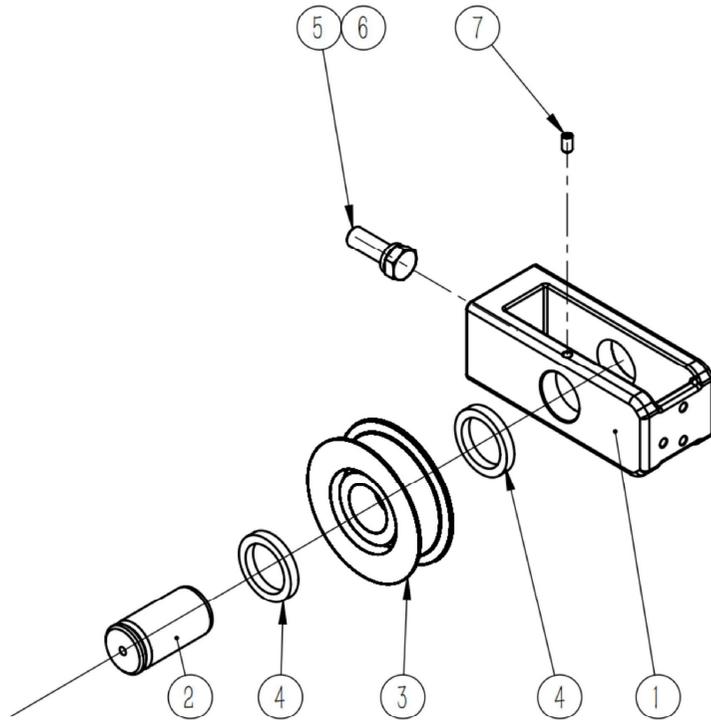
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.3.4.1SQ	Left pulley bracket welded	1	
2	HL30-116-63	Pulley	1	
3	GB894.130	Shaft circlip	1	
4	GB5783 M8×25	Hexagon head bolt	2	
5	GB938	Spring washer	2	
6	GB97.18	Flat washer	2	
7	GB97.130	Flat washer	1	
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Figure 2-10 MC10.2.3.2SQ Front Cylinder Sprocket Assembly

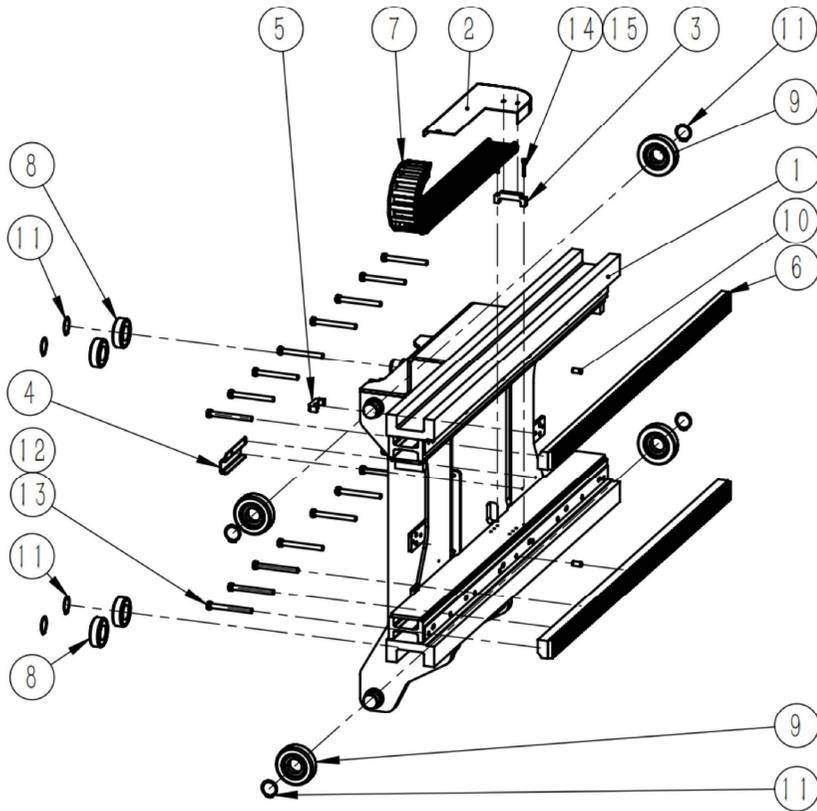
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC10.2.3.2.1SQ	Front cylinder sprocket carrier	1	
2	ZDZ40076-008C	Stop shaft	1	
3	CG40R1-10B	Sprocket	1	
4	GT415508	Spacer	2	
5	GB5786 M16×1.5×45	Hexagon head bolt	1	
6	GB9316	Spring washer	1	
7	GB78 M8×16	Hexagon socket set screw with cone point	1	
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Figure 2-11 MC12.2.4SQ Inner Slide Assembly

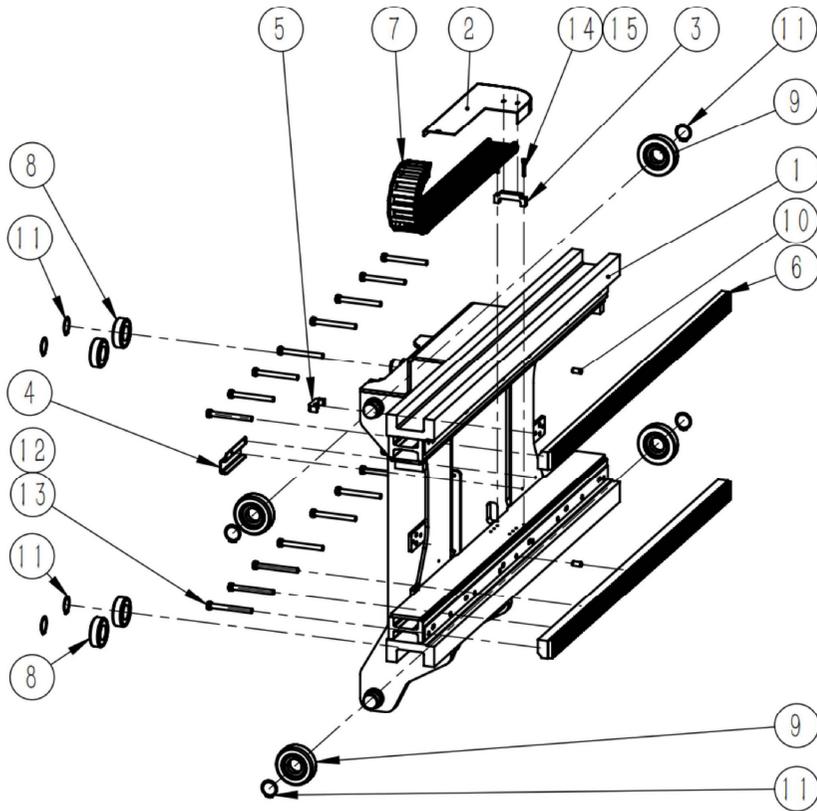
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.4.1SQ	Inner carriage welded	1	
2	MC16.2.4.3SQ	Drag chain mounting welded	1	
3	MC16.2.4.4SQ	Cable conduit clamp	1	
4	MC16.2.4.5SQ	Cable routing clamp	1	
5	MC16.2.1.8SQ	Cable conduit clamp	1	
6	MC16SQ-CT1330	Rack	2	
7	140006807525A1	Drag chain	1	
8	MG40R1-1M1	Roller	4	Select according to mast code
9	MG40R3-15M1	Roller	4	Select according to mast code
10	GB119.212×26	Cylindrical pin	2	
11	GB894.140	Shaft circlip	8	
12	GB9312	Spring washer	16	
13	GB5782 M12×120	Hexagon head bolt	16	
14	GB70.1 M6×40	Hex socket head cap screw	2	
15	GB936	Spring washer	2	
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Figure 2-12 MC16.2.4SQ Inner Slide Assembly

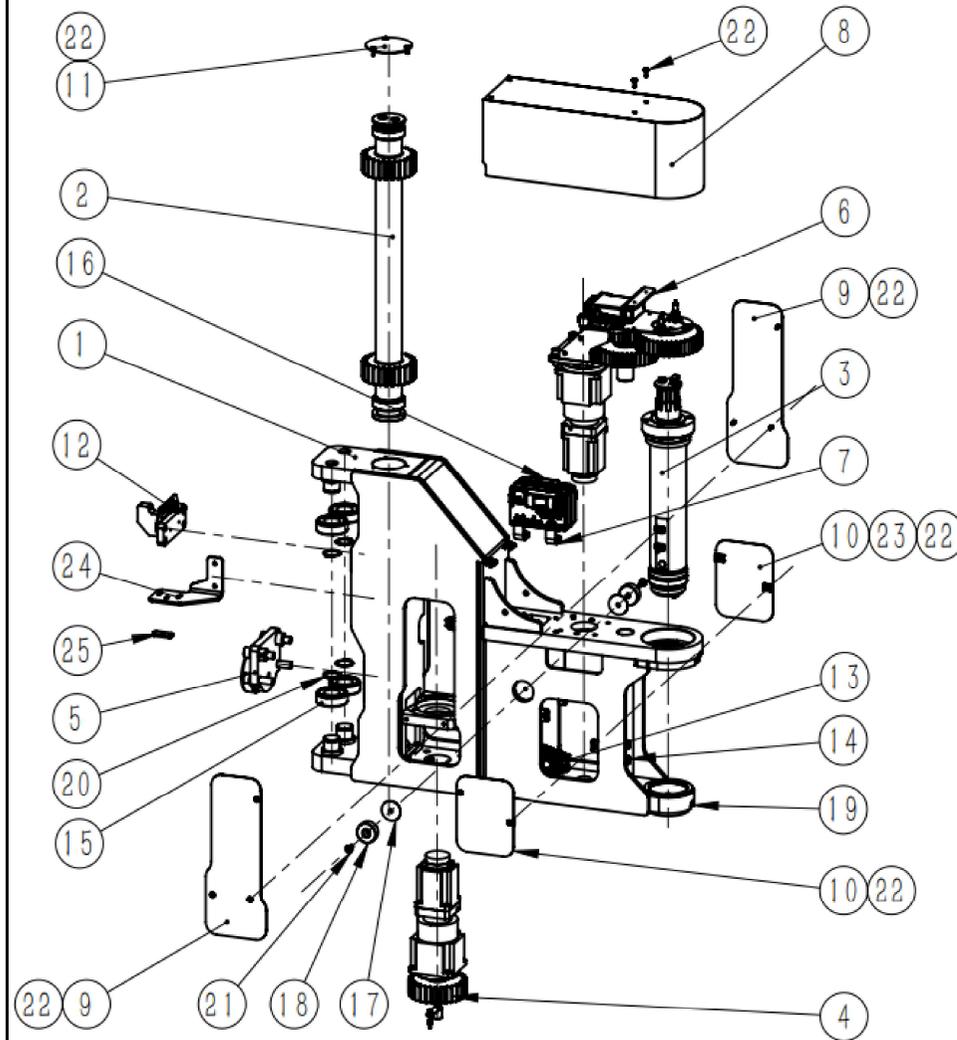
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.2.4.1SQ	Inner carriage welded	1	
2	MC16.2.4.3SQ	Drag chain mounting welded	1	
3	MC16.2.4.4SQ	Cable conduit clamp	1	
4	MC16.2.4.5SQ	Cable routing clamp	1	
5	MC16.2.1.8SQ	Cable conduit clamp	1	
6	MC16SQ-CT1430	Rack	2	
7	140006807528A1	Drag chain	1	
8	MG40R1-1M1	Roller	4	Select according to mast code
9	MG40R3-15M1	Roller	4	Select according to mast code
10	GB119.212×26	Cylindrical pin	2	
11	GB894.140	Shaft circlip	8	
12	GB9312	Spring washer	16	
13	GB5782 M12×120	Hexagon head bolt	16	
14	GB70.1 M6×40	Hex socket head cap screw	2	
15	GB936	Spring washer	2	
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Figure 2-13 MC12.2.5E Bridge Assembly

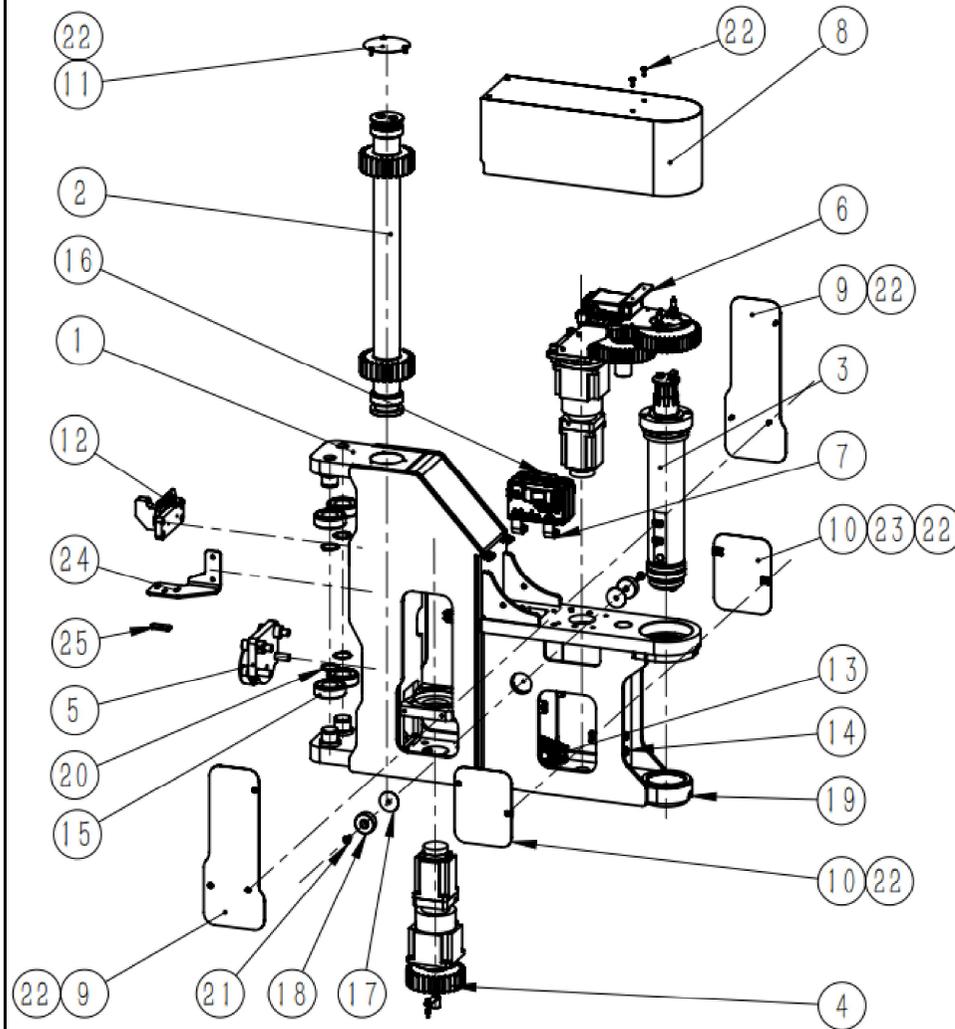
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	MC12.2.5.1SQE	Bridge welded assembly	1	
2	MC15.2.5.2SQE	Gear shaft assembly	1	
3	MC15.2.5.3SQE	Front axle assembly	1	
4	MC15.2.5.4SQE	Side shift motor assembly	1	
5	MC15.2.5.5SQE	Main roller assembly	1	
6	MC15.2.5.6SQE	Rotary motor assembly	1	
7	MC15.2.5.7SQE	Electronic control mounting plate	1	
8	MC10.2.5.8SQE	Bridge cover welded assembly	1	
9	MC15.2.5.9SQE	Side shift motor cover	2	
10	MC15.2.5.10SQE	Rotary motor cover	2	
11	MC15.2.5.11SQE	Shaft cover	1	
12	MC16.2.5.13SQ	Stop assembly	1	
13	DC24V-DC12V-20A	Power step-down transformer	1	
14	RSC1-10	Wire clip	2	
15	MG40R1-1M1	Rotary wheel	4	Select according to mast code.
16	1226BL-4151	Electronic control assembly	2	See label for specific part number.
17	TC15.2.5.12SQ	Stop block adjustment pad	several	
18	TC10.2.6.2SQ	Shock absorber pad	2	
19	JB7940.1 M10×1	Through-type pressure-injected oil cup	2	
20	GB894.140	Shaft circlip	4	
21	GB70.3 M8×25	Hex socket countersunk screw	2	
22	DB-S M6×16	Chamfered hex socket head cap screw	17	
23	LP-133 M6	M6 spring nut	8	
24	MC12.2.5.21	Drag chain connecting plate	1	
25	MC15.2.5.12.2SQE	pressure plate	1	

Figure 2-14 MC16.2.5E Bridge Assembly

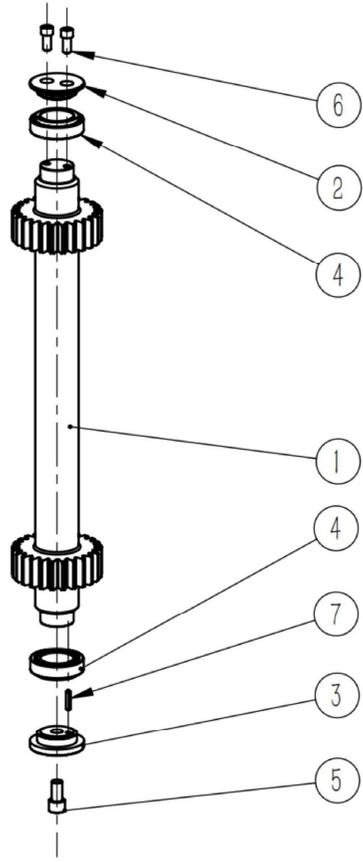
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC15.2.5.1SQE	Bridge welded assembly	1	
2	MC15.2.5.2SQE	Gear shaft assembly	1	
3	MC15.2.5.3SQE	Front axle assembly	1	
4	MC15.2.5.4SQE	Side shift motor assembly	1	
5	MC15.2.5.5SQE	Main roller assembly	1	
6	MC15.2.5.6SQE	Rotary motor assembly	1	
7	MC15.2.5.7SQE	Electronic control mounting plate	1	
8	MC15.2.5.8SQE	Bridge cover welded assembly	1	
9	MC15.2.5.9SQE	Side shift motor cover	2	
10	MC15.2.5.10SQE	Rotary motor cover	2	
11	MC15.2.5.11SQE	Shaft cover	1	
12	MC16.2.5.13SQ	Stop assembly	1	
13	DC24V-DC12V-20A	Power step-down transformer	1	
14	RSC1-10	Wire clip	2	
15	MG40R1-1M1	Rotary wheel	4	Select according to mast code.
16	1226BL-4151	Electronic control assembly	2	See label for specific part number.
17	TC15.2.5.12SQ	Stop block adjustment pad	several	
18	TC10.2.6.2SQ	Shock absorber pad	2	
19	JB7940.1 M10×1	Through-type pressure-injected oil cup	2	
20	GB894.140	Shaft circlip	4	
21	GB70.3 M8×25	Hex socket countersunk screw	2	
22	DB-S M6×16	Chamfered hex socket head cap screw	17	
23	LP-133 M6	M6 spring nut	8	
24	MC16.2.5.21	Drag chain connecting plate	1	
25	MC15.2.5.12.2SQE	pressure plate	1	

Figure 2-15 MC15.2.5.2SQE Gear Shaft Assembly

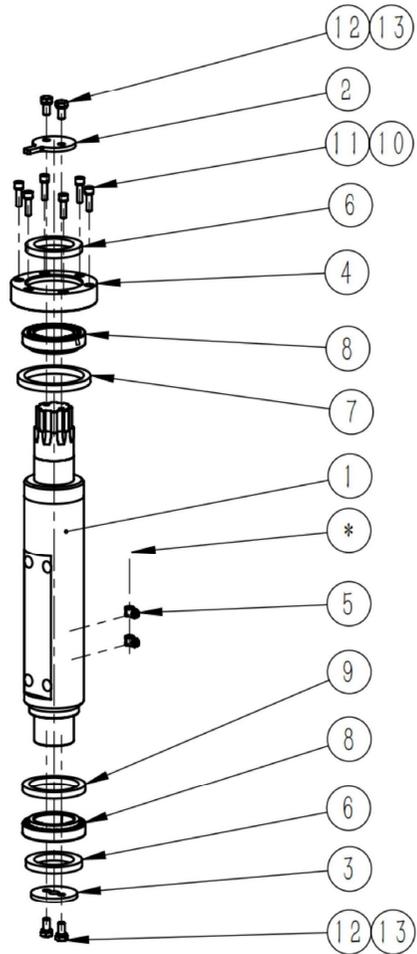
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC15.2.5.2.1SQE	Gear shaft	1	
2	TC15.2.5.2.2SQ	Gear shaft upper cover	1	
3	TC15.2.5.2.3SQ	Gear shaft lower cover	1	
4	GB29733010	Tapered roller bearing	2	
5	GB70.1 M16×30	Hexagon socket head screw	1	
6	GB70.1 M12×25	Hexagon socket head screw	2	
7	GB879.16×30	Elastic cylindrical pin	1	
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Figure 2-16 MC15.2.5.3SQE Front Axle Assembly

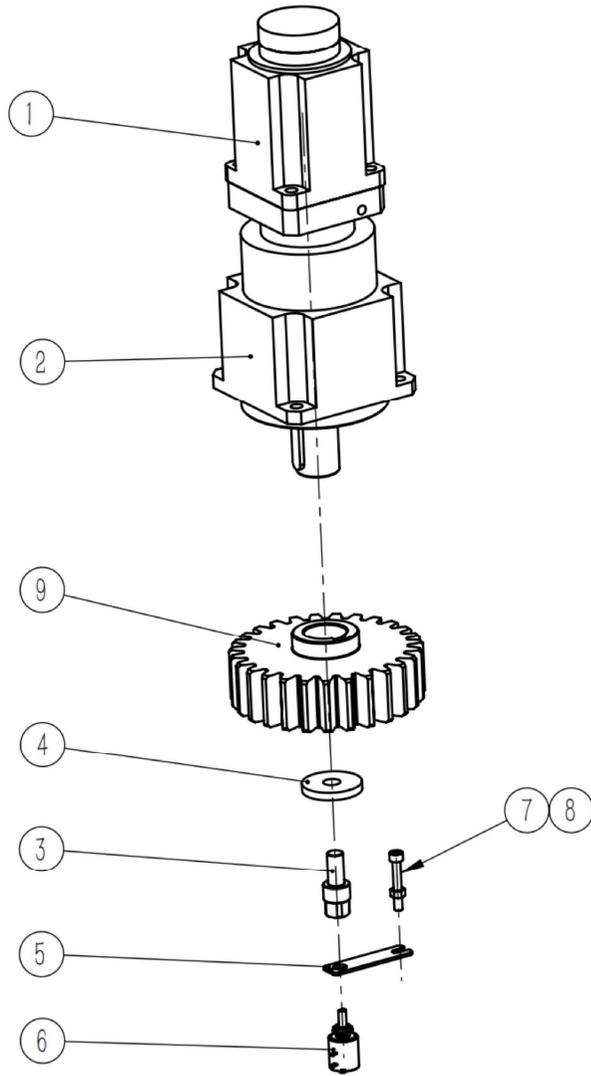
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC15.2.5.3.1SQE	Front axle	1	
2	MC15.2.5.3.2SQE	Induction pressure plate	1	
3	MC15.2.5.3.3SQE	Cover plate	1	
4	TC10.2.4.4	Front bearing seat	1	
5	RSC1-10	Wire clamp	2	
6	GB9877 B60×85×10	Rotating shaft lip seal	2	
7	GB9877 B90×110×10	Rotating shaft lip seal	1	
8	GB29732012	Tapered roller bearing	2	
9	GB9877 B75×95×10	Rotating shaft lip seal	1	
10	GB938	Spring washer	6	
11	GB70.1 M8×30	Hex socket head cap screw	6	
12	GB5783 M10×20	Hex head bolt	4	
13	GB9310	Spring washer	4	
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Figure 2-17 MC15.2.5.4SQE Side Shift Motor Assembly

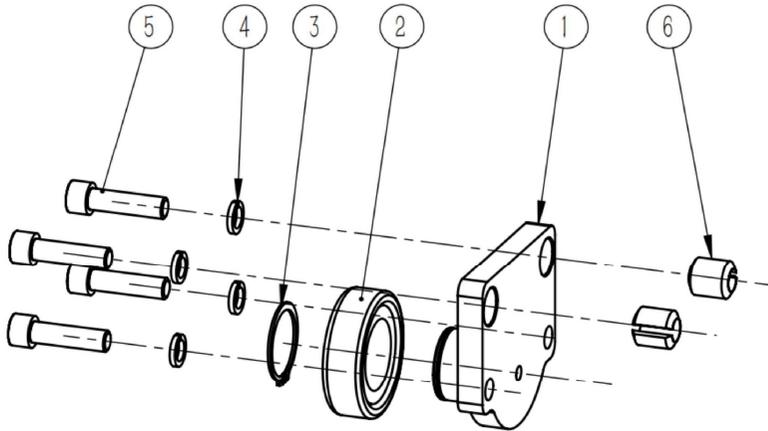
Applicable to MC12 and C16 Series



No.	Code	Name	Qty.	Remarks
1	Z55BLD500-48GU-Z	Brushless DC motor	1	With cable
2	115ZB100-0095	Reducer	1	
3	MC15.2.5.4.2SQE	Sensor connecting shaft	1	
4	MC15.2.1.3.2SQH	Large washer	1	
5	MCA15.2.5.12SQ	Potentiometer mounting plate	1	
6	R22M 0505 W2160	Multi-turn digital potentiometer	1	
7	GB70.1 M6×40	Hexagon socket head screw	1	
8	GB6170 M6	Type 1 hexagon nut	1	
9	MC15.2.5.4.1SQE	Side shift pinion	1	
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Figure 2-18 MC15.2.5.5SQE Main Roller Assembly

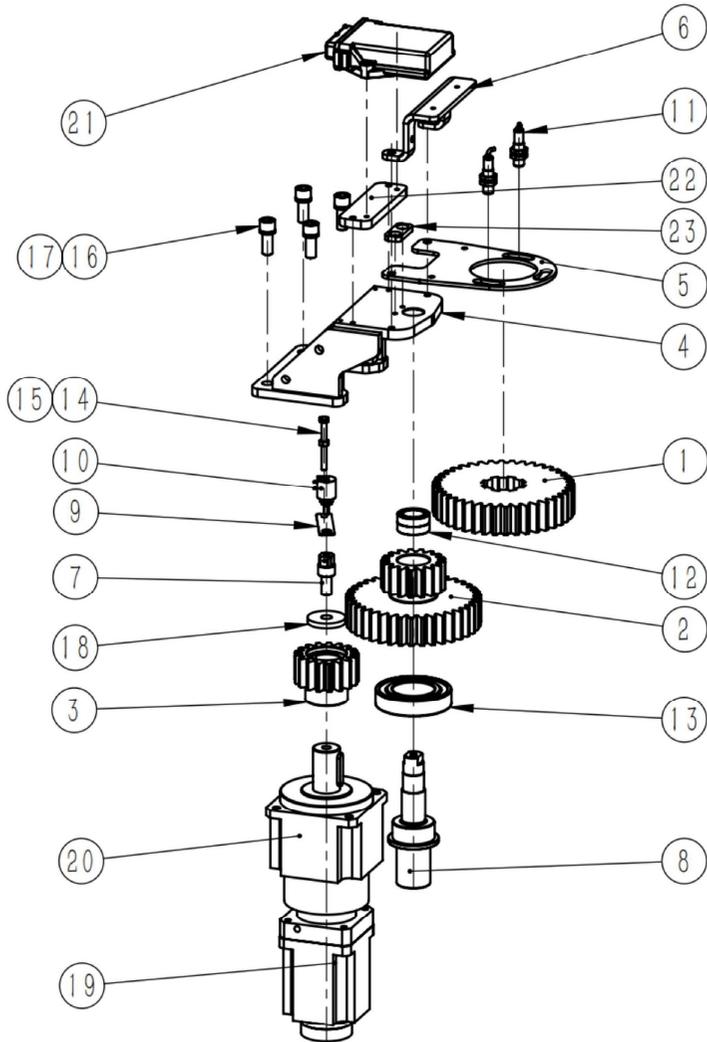
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC15.2.5.5.1SQE	Main roller mounting base welded together	1	
2	MG55R1-1	Roller	1	
3	GB894.155	Shaft circlip	1	
4	GB9316	Spring washer	4	
5	GB70.1 M16×60	Hexagon socket head cap screw	4	
6	GB879.128×32	Elastic cylindrical pin	2	
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Figure 2-19 MC15.2.5.6SQE Rotating Motor Assembly

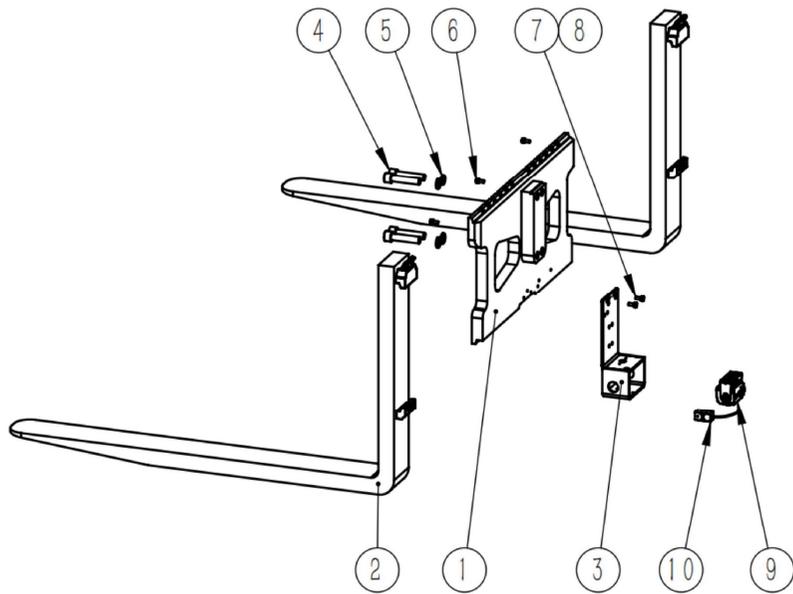
Applicable to MC12 and MC16 Vehicle Series



No.	Code	Name	Qty.	Remarks
1	MC15.2.5.6.1SQE	Large gear	1	
2	MC15.2.5.6.2SQE	Intermediate gear	1	
3	MC15.2.5.6.3SQE	Pinion gear	1	
4	MC15.2.5.6.5SQE	Intermediate shaft mounting bracket (welded)	1	
5	MC15.2.5.6.6SQE	Sensor mounting plate	1	
6	MC15.2.5.6.7SQE	Case support bracket	1	
7	MC15.2.5.4.2SQE	Sensor connecting shaft	1	
8	MC15.2.5.6.4SQ	Intermediate gear shaft	1	
9	MCA15.2.5.12SQ	Potentiometer mounting plate	1	
10	R22M 0505 W2160	Multi-turn digital potentiometer	1	
11	IME12-04BPSZW2K-5	Proximity switch assembly	2	
12	GB5801 NKI25-20	Needle roller bearing	1	
13	GB2766210-2Z	Deep groove ball bearing	1	
14	GB5782 M6×60	Hexagon head bolt	1	
15	GB6170 M6	Type 1 hexagon nut	1	
16	GB70.1 M12×30	Hexagon socket head cap screw	4	
17	GB9312	Spring washer	4	
18	MC15.2.1.3.2SQH	Large washer	1	
19	Z55BLD500-48GU-Z	Brushless DC motor	1	With cable
20	115ZB100-0095	Reducer	1	
21	SPC-SDI0-3200	ShuoBo 32-input 0-output 10-output module	1	See label for specific part number.
22	MC15.2.5.6.9SQE	0-module mounting plate	1	
23	MC15.2.5.6.5SQ	Stop plate	1	
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Figure 2-20 MC16.2.6E Fork and Fork Carriage Assembly

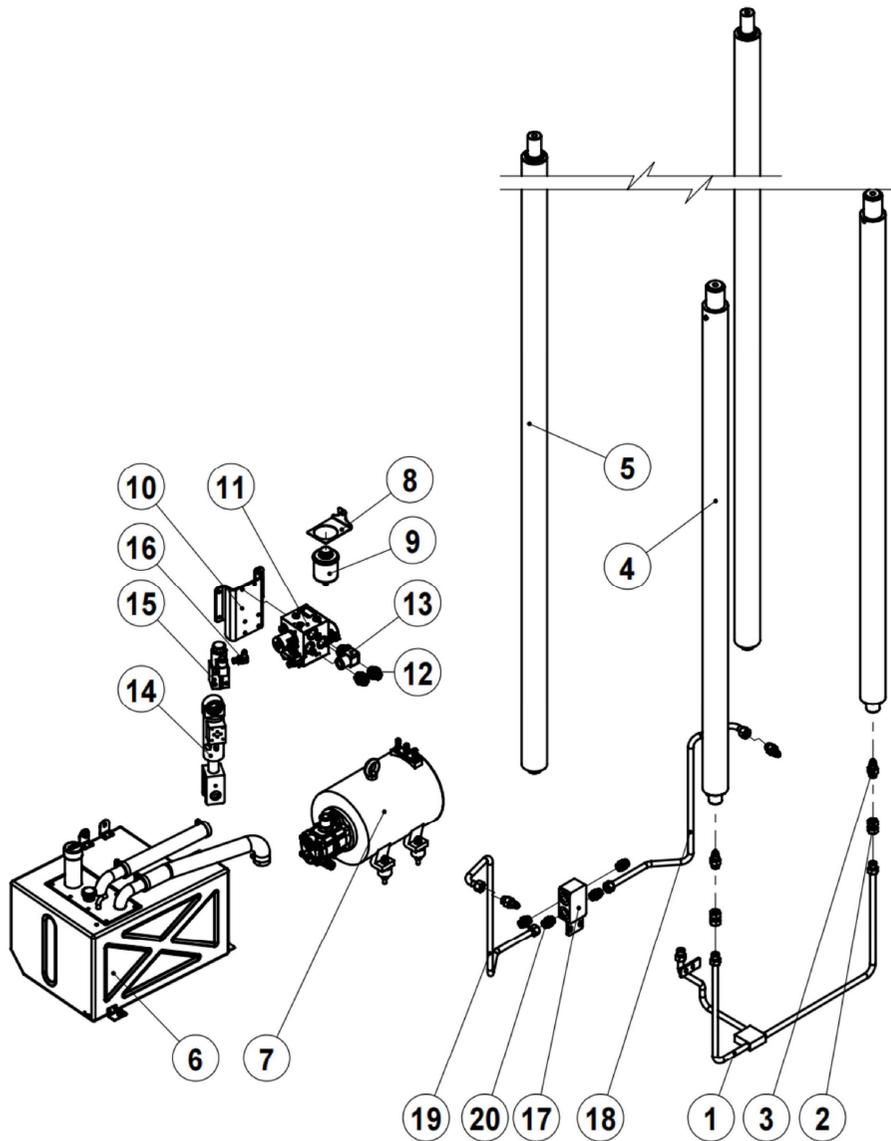
Applicable to MC12 and MC16 Models



No.	Code	Name	Qty.	Remarks
1	MC15.2.6.1SQ	Fork carriage welded	1	
2	MC16.2.6.12-L	Fork	2	
3	MC16.2.6.3E	Camera mounting bracket welded	1	
4	GB70.1 M20×9010.9	Hex socket head cap screw	4	
5	GB9320	Spring washer	4	
6	GB70.1 M8×16	Hex socket head cap screw	3	
7	GB5783 M8×20	Hex head bolt	2	
8	GB938	Spring washer	2	
9	CWHD-152M	Wireless HD camera	1	
10	JGT-12X4410MV-520	Laser head (green)	1	
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Figure 3-1 MC16.3SQ Hydraulic System

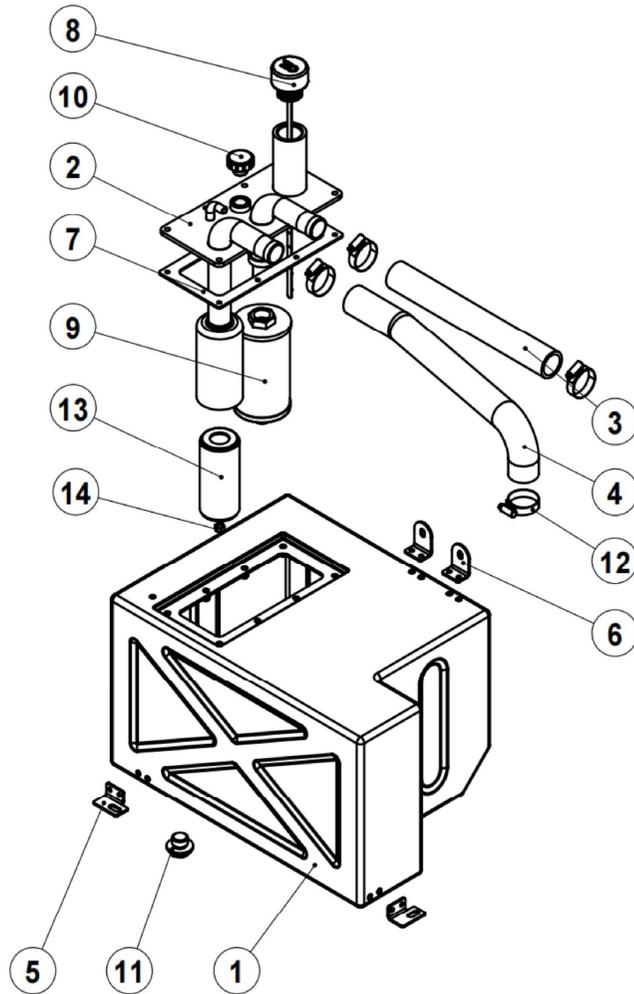
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1		Internal mast steel pipe welds	1	See inner mast assembly
2	S3C-22W	Female threaded straight-through connector	2	
3	BYT-QDF-3t-01	Shut-off valve assembly	4	
4	TM5563-MC-F	Lifting cylinder	2	
5	TM5563-MC-B	Lifting cylinder	2	
6	MC16.8.1	Hydraulic oil tank assembly	1	
7	MC16.8.5	Gear pump assembly	1	
8	MF25.3.4.3	Oiler mounting plate	1	
9	MF25.3.4.1	Locking oiler	1	
10	MC16.8.4.1	Electro-hydraulic fork valve mounting plate	1	
11	EHG04F-526	Solenoid proportional multi-way valve	1	
12	S1CG-22-12DQ	Straight-through connector	2	
13	GJT209L	Right-angle pipe connector	1	
14	CGS30015BYT	Locking cylinder	1	
15	4WE6DEL6X/EG24NZ5L	Solenoid reversing valve	1	
16	GJT112L	Right-angle pipe connector	1	
17	MC16.2.1.4.1SQ	Valve block	1	
18	MC16.2.1.4.2SQ	Steel pipe assembly I	1	
19	MC16.2.1.4.3SQ	Steel pipe assembly II	1	
20	S1CH-22DQ	Straight-through connector	4	
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Figure 3-2 MC16.8.1 Hydraulic Oil Tank Assembly

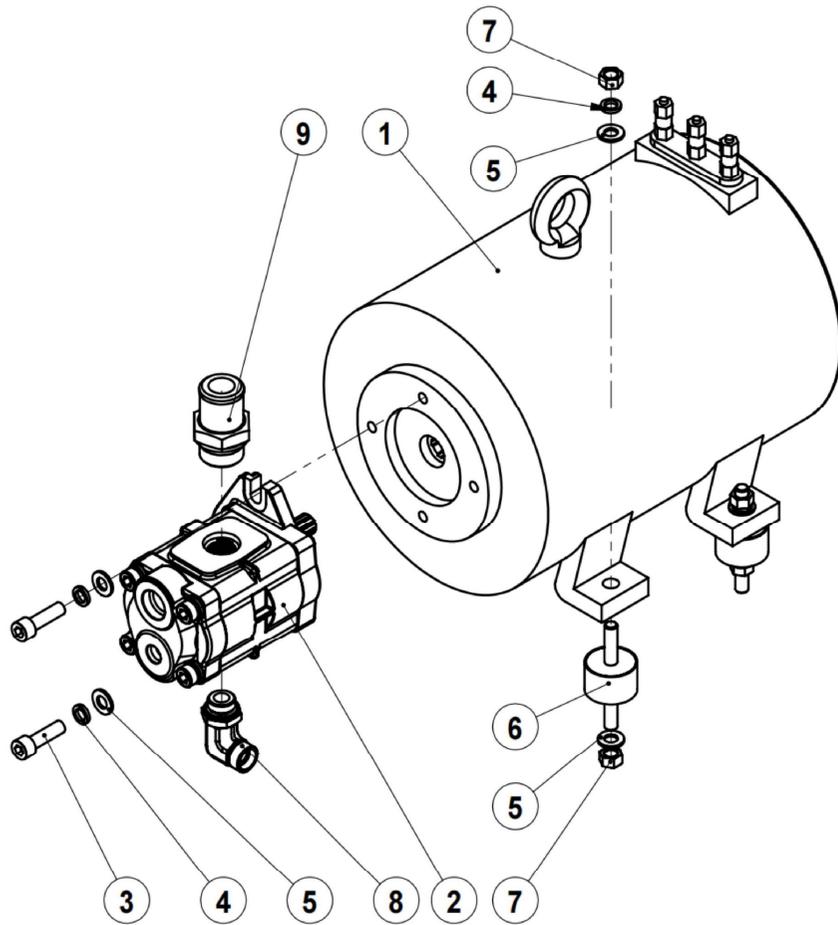
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.3.1.1SQ	Plastic fuel tank	1	
2	MC16.3.6	Fuel tank upper cover welded together	1	
3	MC16.3.7	Return oil hose	1	
4	MC16.3.8	Suction oil hose	1	
5	MC16.8.3.1SQ	Lower mounting plate	2	
6	MC16.8.3.2SQ	Mounting plate	2	
7	2FZ20-K1002	Cover rubber gasket	1	
8	TK1530.3.7	Hydraulic oil dipstick	1	
9	Y0816A	Return oil filter	1	
10	BBZ24V2.0-L7W.3	Air filter	1	
11	QC385 M24×2	Hexagonal magnetic plug	1	
12	JB8870 d50	Hose clamp	4	
13	Y0613	Oil filter	1	
14	GB6170 M8	Type 1 hexagonal nut	1	
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Figure 3-3 MC16.8.5 Gear Pump Assembly

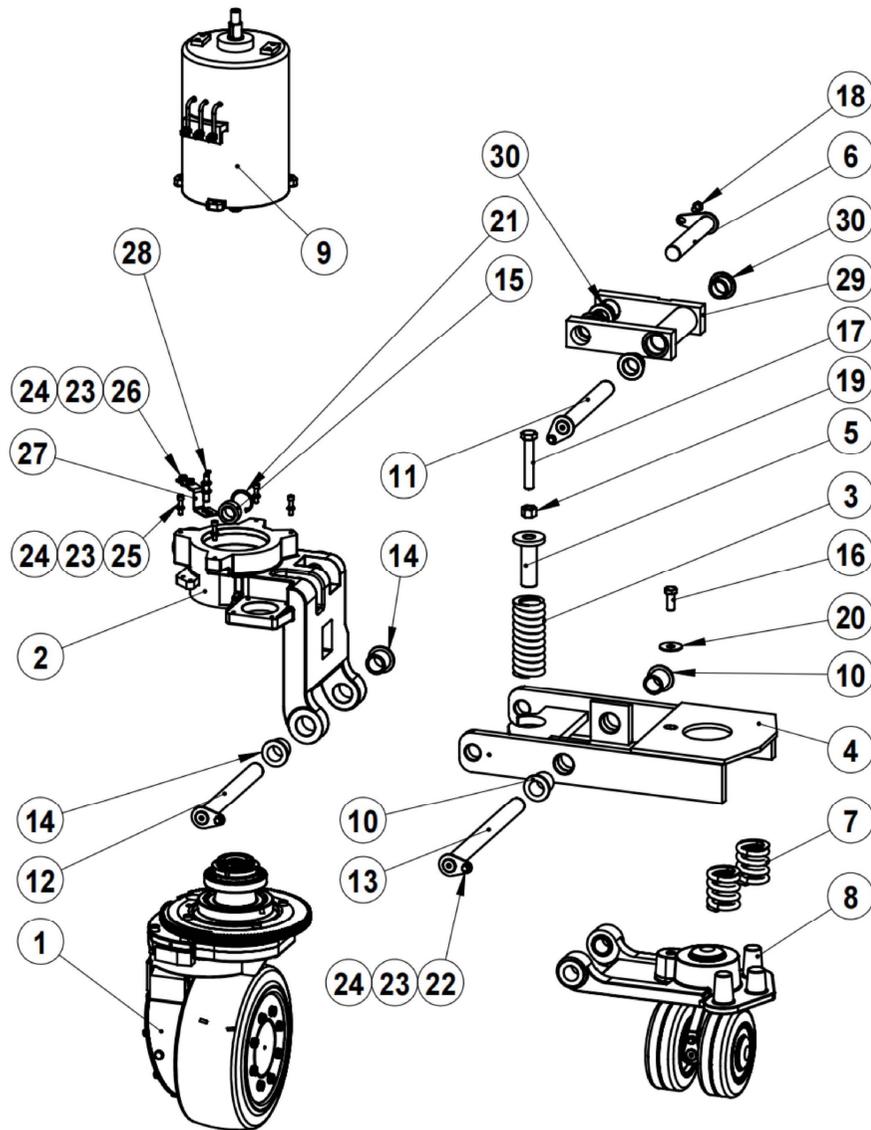
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	XQD15-BYT2	Pump motor	1	
2	DSGO5C23F9H1-R213C	Gear pump	1	
3	GB70.1 M10×35	Hex socket head cap screw	3	
4	GB9310	Spring washer	7	
5	GB97.110	Flat washer	11	
6	XJZQ10354025	Rubber shock absorber	4	
7	GB6170 M10	Type 1 hexagonal nut	8	
8	S1CG9-22-080GDQ	Right-angle pipe fitting	1	
9	GJT2091	Straight pipe fitting	1	
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Figure 4-1 MC16.4 Drive System

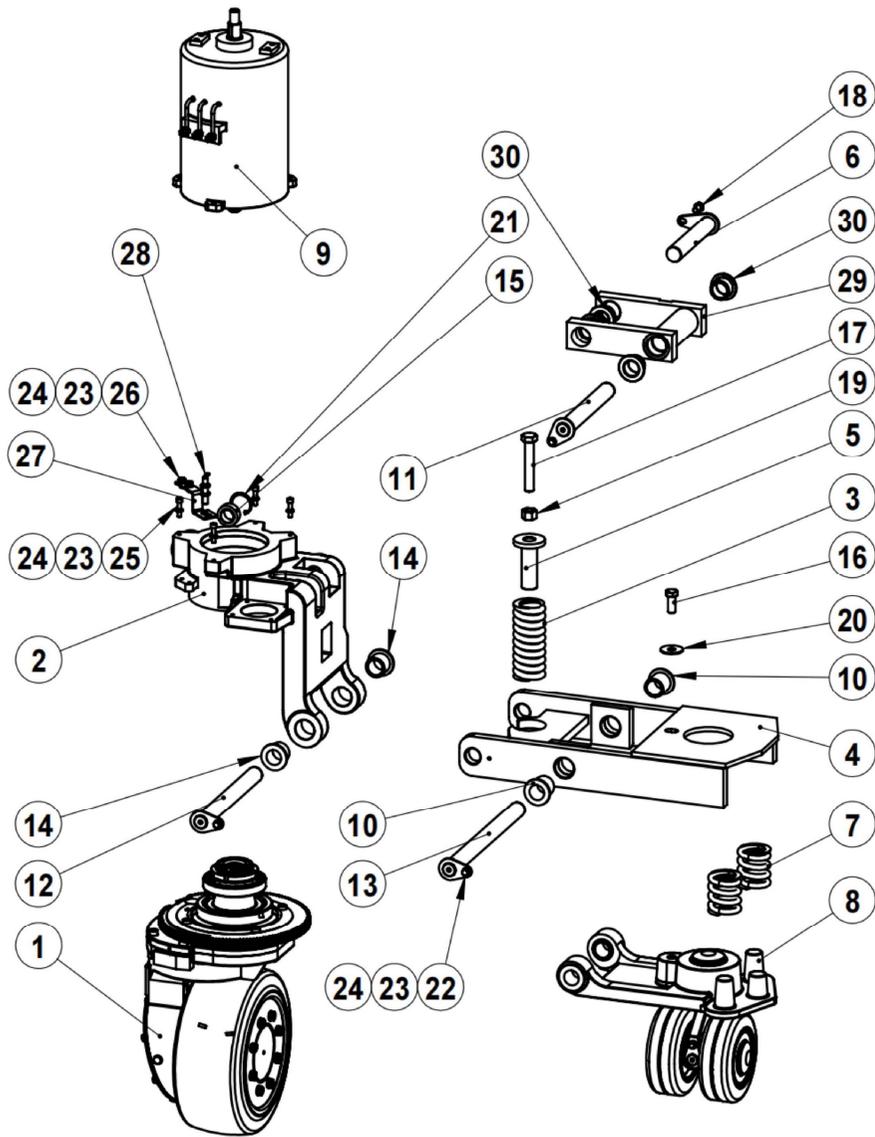
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	BQD38001	Drive unit	1	
2	MC10.4.1.3	Drive motor connecting plate	1	
3	TC10.4.4	Damper spring II	1	
4	TC10.4.5	Center connecting bridge weld	1	
5	TC10.4.6	Damper spring guide	1	
6	TC10.4.7	Ear plate pin	1	
7	MF15.4.5	Lower bridge damping spring	2	
8	TC10.4.9	Lower connecting bridge	1	
9	XQJ5.5-BYT5	Drive motor	1	
10	HZF354550	Sliding bearing	2	
11	XZ35-275-LW	Ear plate pin	1	
12	XZ35-340-LW	Ear plate pin	1	
13	XZ35-430-LW	Ear plate pin	1	
14	HZF354540	Sliding bearing	2	
15	GB9163 GE30ES-2RS	Spherical plain bearing	1	
16	GB5783 M16×40	Hexagon head bolt	1	
17	GB5783 M20×120	Hexagon head bolt	1	
18	GB5786 M12×1.25×20	Hexagon head bolt	1	
19	GB6170 M20	Type 1 hexagon nut	1	
20	GB96.116	Large washer	1	
21	GB893.147	Circlip for hole	1	
22	GB5783 M8×20	Hexagon head bolt	3	
23	GB938	Spring washer	9	
24	GB97.18	Plain washer	9	

Figure 4-1 MC16.4 Drive System

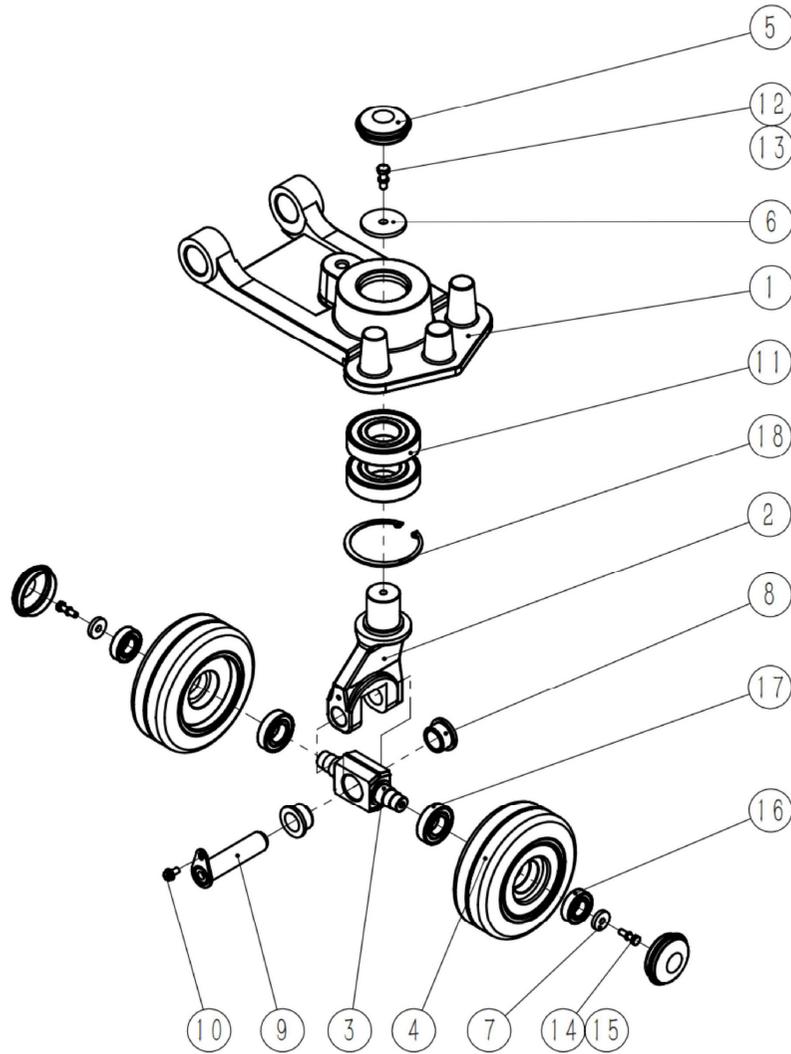
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
25	GB70.1 M8×35	Hexagon socket head screw	4	
26	GB5783 M8×16	Hexagon head bolt	2	
27	MF25.4.32	Proximity switch mounting plate	1	
28	ME12-04BPSZW2S	Proximity switch	1	
29	TC10.4.10.1	Upper connecting bridge welded	1	
30	HZF354530	Sliding bearing	4	
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Figure 4-2 TC10.4.9 Lower Connecting Bridge Assembly

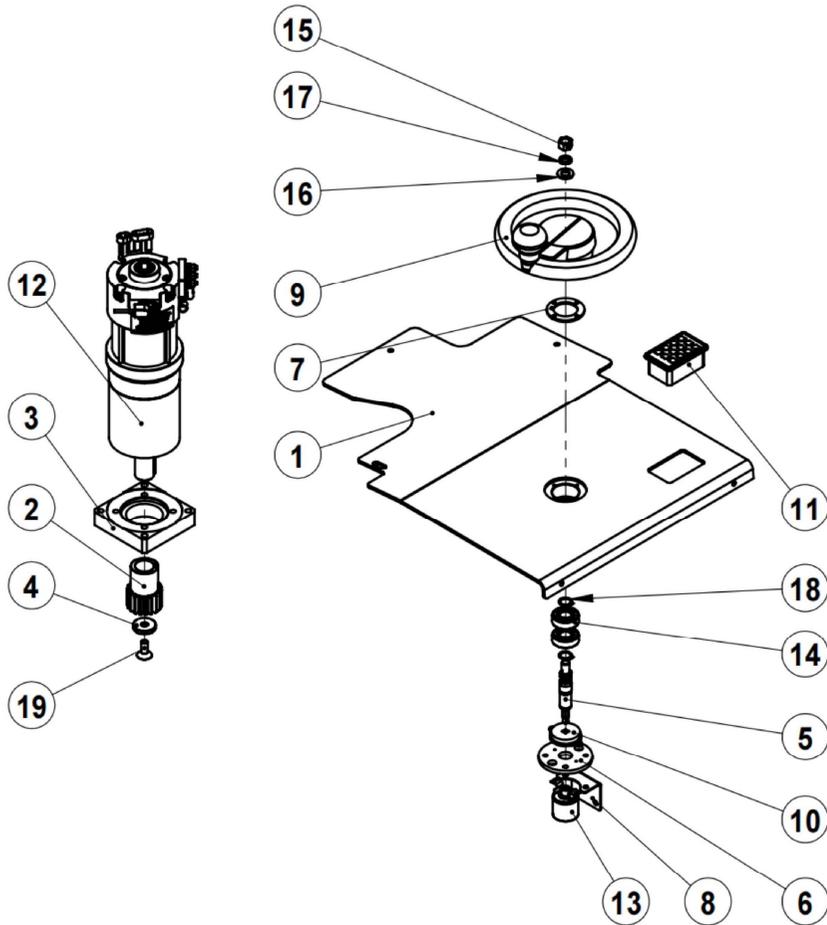
Applicable to MC12 and MG16 Series



No.	Code	Name	Qty.	Remarks
1	TC10.4.9.1	Lower connecting bridge base	1	
2	TC10.4.9.2	Universal wheel bracket	1	
3	TC10.4.9.3	Universal wheel shaft	1	
4	BCL204×76	Load wheel	2	
5	TC10.4.9.4	Lower bridge cover	3	
6	TC10.4.9.5	Baffle plate	1	
7	TC10.4.9.6	Bearing baffle plate	2	
8	HZF304025	Sliding bearing	2	
9	XZ30-125-LW	Ear plate pin	1	
10	GB5783 M8×16	Hexagon head bolt	1	
11	GB2766310-2Z	Deep groove ball bearing	2	
12	GB5783 M10×30	Hexagon head bolt	1	
13	GB9310	Spring washer	1	
14	GB5783 M8×30	Hexagon head bolt	2	
15	GB938	Spring washer	2	
16	GB2766205-2Z	Deep groove ball bearing	2	
17	GB2766206-2Z	Deep groove ball bearing	2	
18	GB893.1110	Retaining ring for hole	1	
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Figure 5-1 MC16.5 Steering System

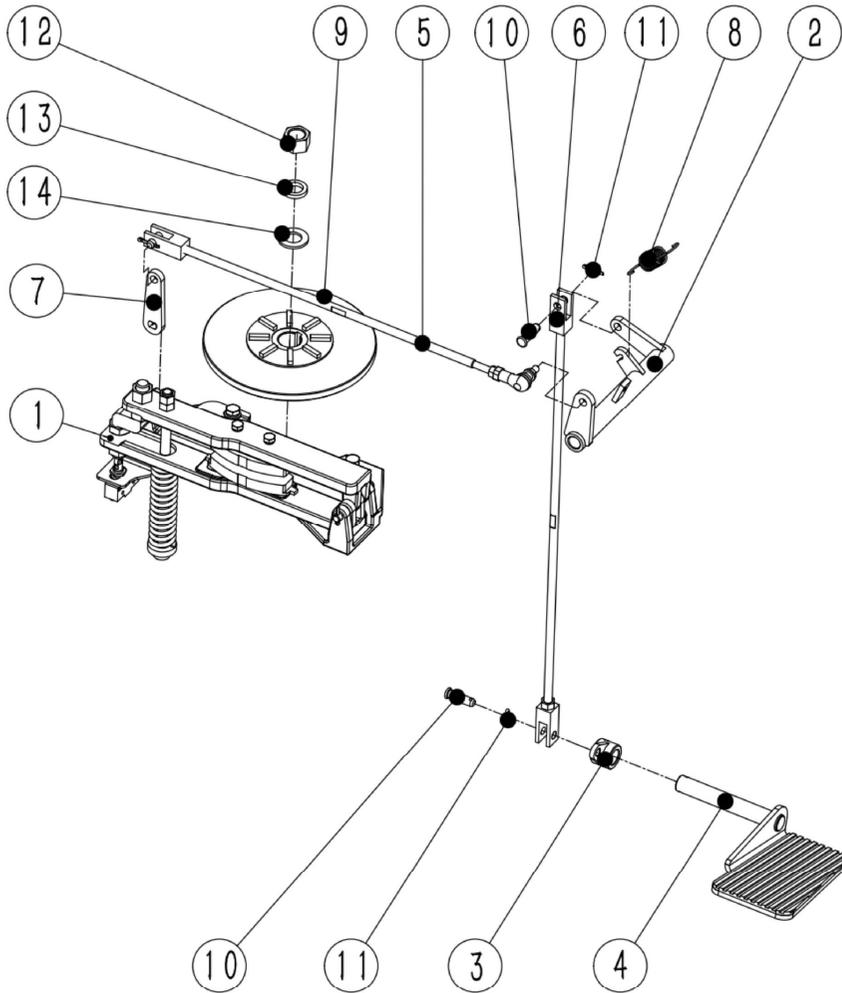
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.1.17.1	Steering panel welded together	1	
2	MC10.4.3.1	Steering pinion	1	
3	MC10.4.3.2	Transition plate	1	
4	MC10.4.3.3	Limiting ring	1	
5	MF15.1.33.2	Steering shaft	1	
6	MF15.1.33.3	Cover plate	1	
7	MF15.1.33.4	Lock plate	1	
8	MF15.1.33.7	Encoder wiring harness mounting plate	1	
9	T550029480	Steering wheel	1	
10	YS-1005-48-F-0.2	Damper	1	
11	EKS-E-C	Password lock with card swipe function	1	
12	YDZ48400-G45	Steering unit	1	
13	DBS36E-BBAK01000-1	Encoder assembly	1	
14	GB2766203-2Z	Deep groove ball bearing	2	
15	GB6171 M12×1.5	Type 1 hexagonal nut	1	
16	GB97.112	Flat washer	1	
17	GB9312	Spring washer	1	
18	GB894.117	Shaft circlip	2	
19	GB70.3 M10×25	Hexagon socket head cap screw	1	
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Figure 6-1 MF25.6 Brake System

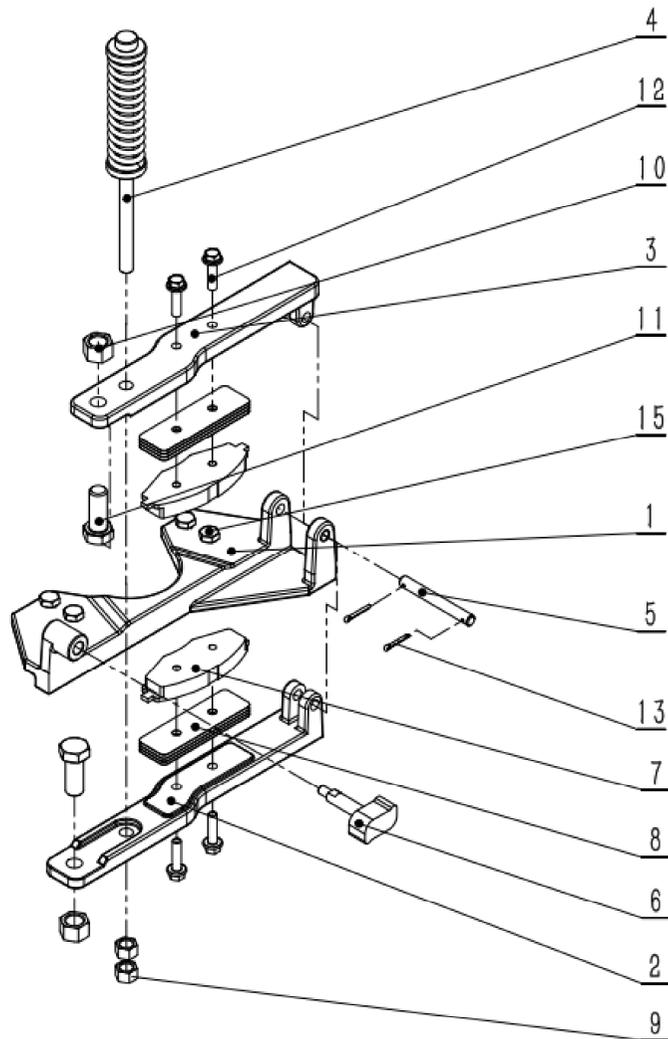
Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MF15.6.1	Brake caliper assembly	1	
2	MF25.6.2	Swivel sleeve welded	1	
3	MF25.6.3	Pedal rocker arm welded	1	
4	MF25.6.4	Footboard assembly	1	
5	MF25.6.6	Direct link assembly	1	
6	MF25.6.8	Trailer link assembly	1	
7	MF15.6.10	Tension plate	1	
8	TF15.6.10	Return spring	1	
9	TF15.6.13	Brake disc	1	
10	GB88210×35B	Pin pin	2	
11	GB913.2×20	Cotter pin	2	
12	GB6171 M20×2	Hexagonal nut	1	
13	GB9320	Spring washer	1	
14	GB97.120	Flat washer	1	
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Figure 6-2 MF15.6.1 Brake Caliper Assembly

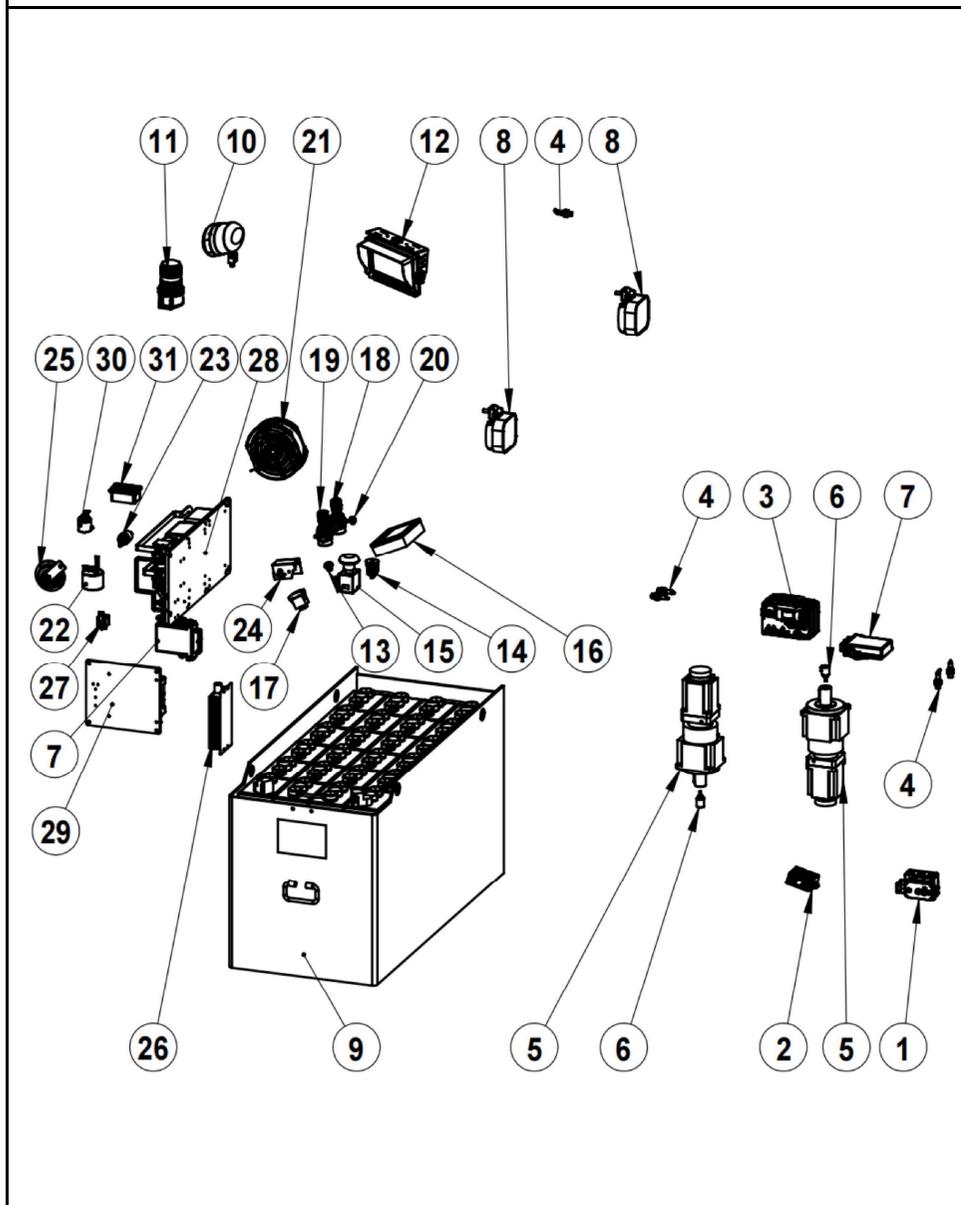
Applicable to MC12 and MC16 vehicle Series



No.	Code	Name	Qty.	Remarks
1	MF15.6.1.1	Brake caliper mounting plate	1	
2	MF15.6.1.2	Lower brake caliper	1	
3	MF15.6.1.3	Upper brake caliper	1	
4	MF15.6.1.6	Brake spring assembly	1	
5	MF15.6.1.8	Pin	1	
6	TF15.6.11	Cam	1	
7	TF15.6.19	Brake pad	2	
8	TF15.6.18	Brake pad adjustment washer	8	
9	GB6170 M12	Type 1 hexagon nut	2	
10	GB6171 M16×1.5	Type 1 hexagon nut	2	
11	GB5786 M16×1.5×40	Hexagon head bolt	2	
12	GB5783 M8×35	Hexagon head bolt	4	
13	GB913.2×20	Cotter pin	2	
14	GB9310	Spring washer	4	
15	GB5783 M10×30	Hexagon head bolt	4	
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Figure 7-1 MC12.7 Electrical System

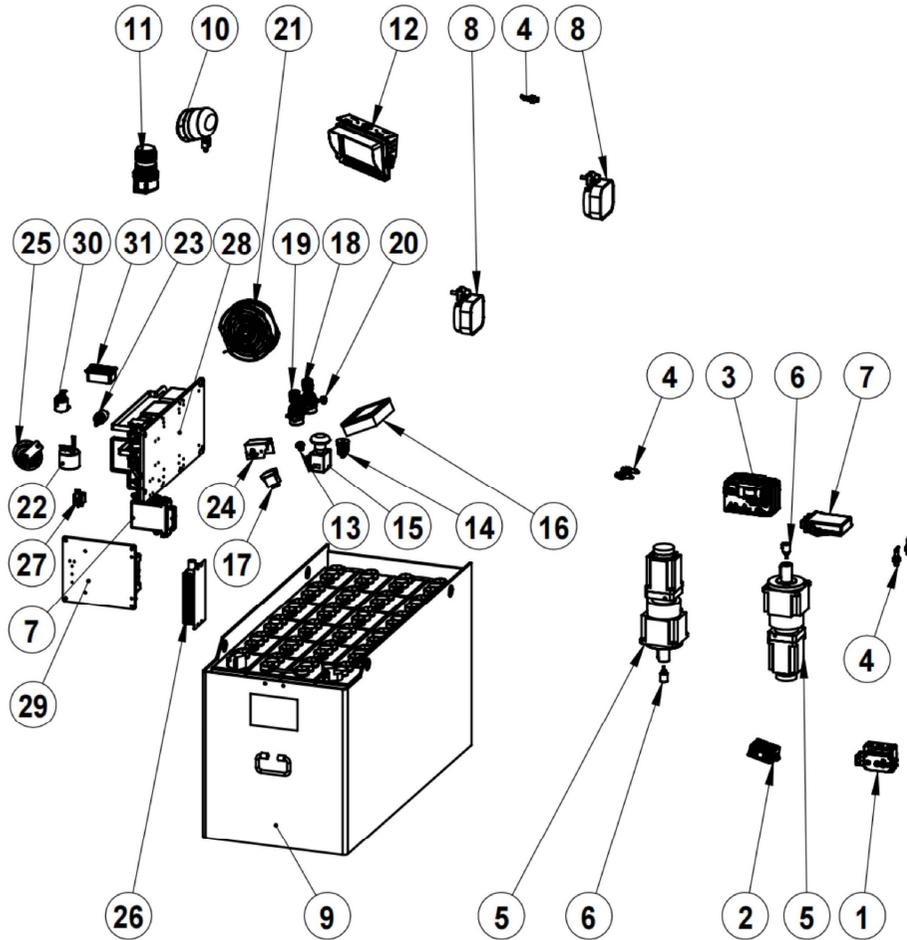
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
1	CWHD-152M	Wireless HD camera	1	
2	DC24V-DC12V-20A	Power supply voltage dropper	1	
3	1226BL-4151	Electronic control assembly	2	See label for specific part number.
4	ME12-04BPSZW2K-500	Proximity switch assembly	5	
5	Z55BLD50048-115ZB100	Brushless DC reduction motor	2	
6	R22M 0505 W2160	Multi-turn digital potentiometer	2	
7	SPC-SDIO-3200	10 modules	2	See label for specific part number.
8	BYT-DD-01	Headlights	2	
9	QDC48-390-10	Traction battery pack	1	
10	LGD-0001	Blue light	1	
11	XRL2010B	LED warning light	1	
12	MWHD-774H	Wireless HD display	1	
13	ZS19H-10-R	High-intensity push button switch	1	
14	C832833B700	In-vehicle USB charger socket	1	
15	ZDK31-250	DC power switch	1	
16	JCP200-050A	In-vehicle display	1	
17	CV1B2A50B-1AZWG-100	Paddle switch	1	
18	JC2000-0147-SPL	Cross handle	1	
19	JC2000-0153-SPL	Single-axis handle	1	
20	JS12B-10-L-R	High-intensity push button switch (red)	1	
21	YY17251H24B-ZC	Fan	1	
22	DJB-48B	Reverse buzzer	1	
23	JK410	Ignition switch	1	
24	ET-126MCU	Accelerator	1	

Figure 7-1 MC12.7 Electrical System

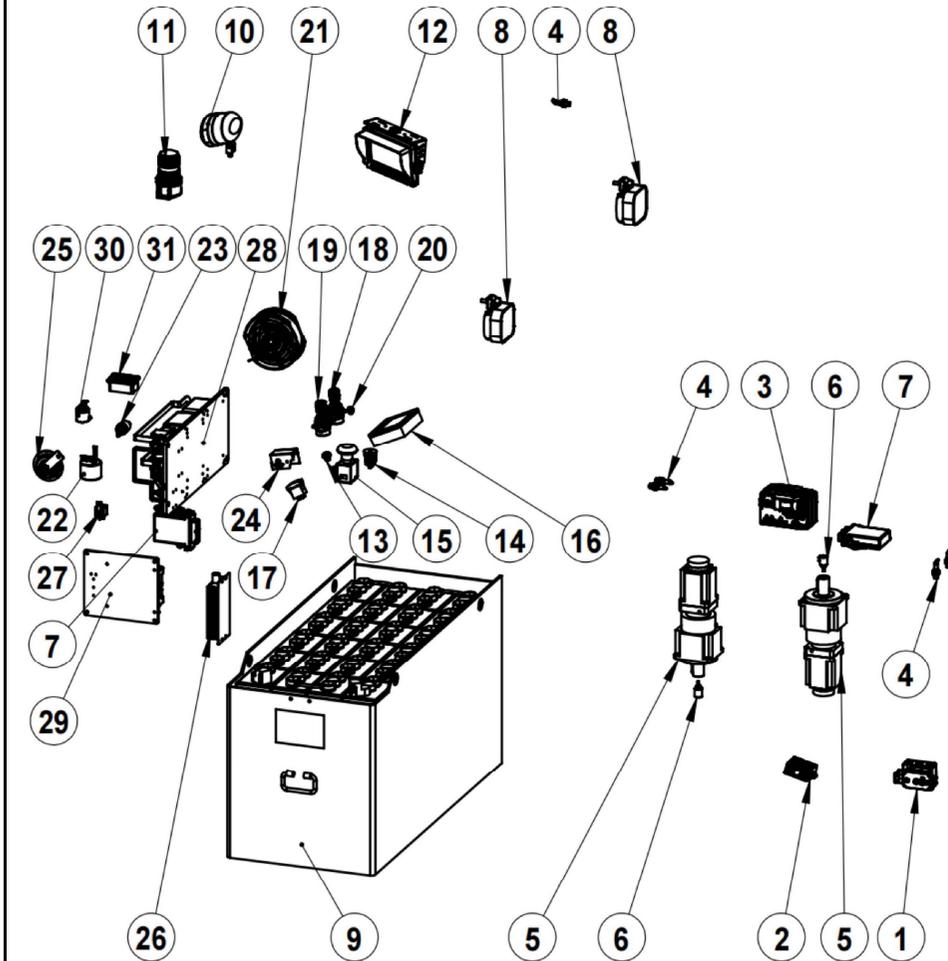
Applicable to MC12 Series



No.	Code	Name	Qty.	Remarks
25	DL2280-24V	Electric horn	1	
26	ZB030048024TA-BYT	DC converter	1	
27	JD202S	Solid-state relay	1	
28	FA4838-8Q	Electric control assembly	1	See label for specific part number.
29	1222-5101-1	Electric control assembly	1	See label for specific part number.
30	DBS3GE-BBAK01000-1	Encoder	1	
31	EKS-E-C	Password lock with card swipe function	1	
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Figure 7-2 MC16.7 Electrical System

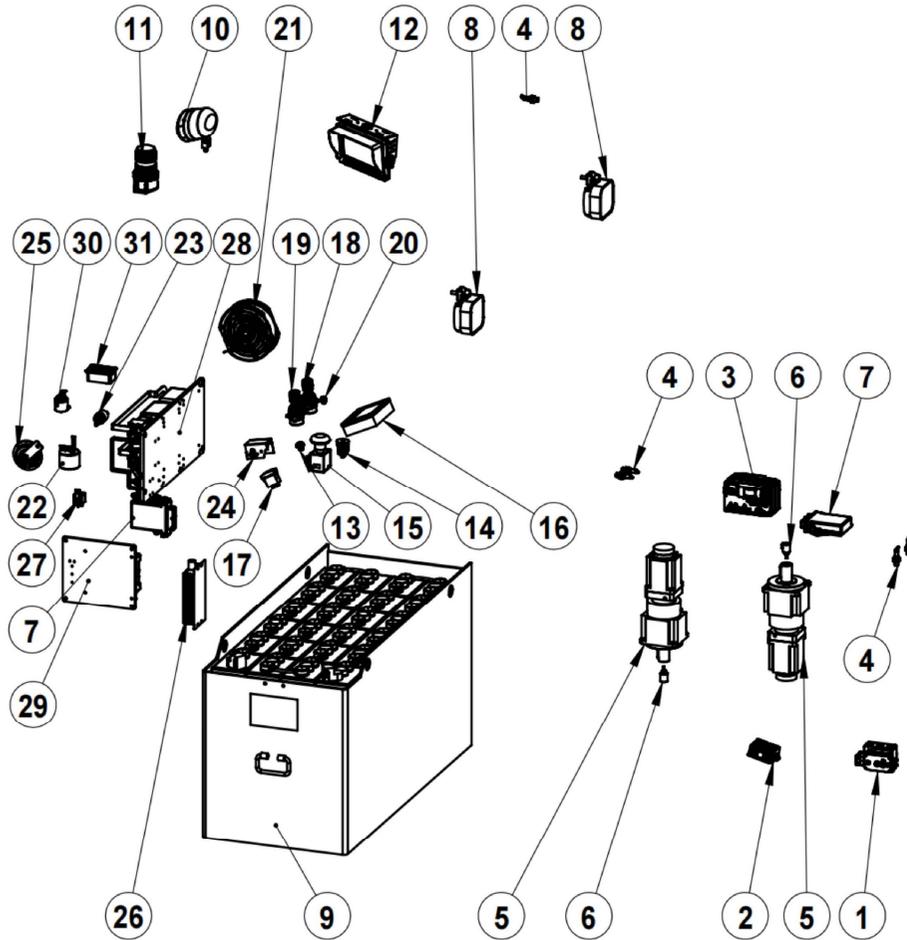
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
1	CWHD-152M	Wireless HD camera	1	
2	DC24V-DC12V-20A	Power supply voltage dropper	1	
3	1226BL-4151	Electronic control assembly	2	See label for specific part number.
4	ME12-04BPSZW2K-500	Proximity switch assembly	5	
5	Z55BLD50048-115ZB100	Brushless DC reduction motor	2	
6	R22M 0505 W2160	Multi-turn digital potentiometer	2	
7	SPC-SDIO-3200	10 modules	2	See label for specific part number.
8	BYT-DD-01	Headlights	2	
9	QDC48-480-4C	Traction battery pack	1	
10	LGD-0001	Blue light	1	
11	XRL2010B	LED warning light	1	
12	MWHD-774H	Wireless HD display	1	
13	ZS19H-10-R	High-intensity push button switch	1	
14	C832833B700	In-vehicle USB charger socket	1	
15	ZDK31-250	DC power switch	1	
16	JCP200-050A	In-vehicle display	1	
17	CV1B2A50B-1AZWG-100	Paddle switch	1	
18	JC2000-0147-SPL	Cross handle	1	
19	JC2000-0153-SPL	Single-axis handle	1	
20	JS12B-10-L-R	High-intensity push button switch (red)	1	
21	YY17251H24B-ZC	Fan	1	
22	DJB-48B	Reverse buzzer	1	
23	JK410	Ignition switch	1	
24	ET-126MCU	Accelerator	1	

Figure 7-2 MC16.7 Electrical System

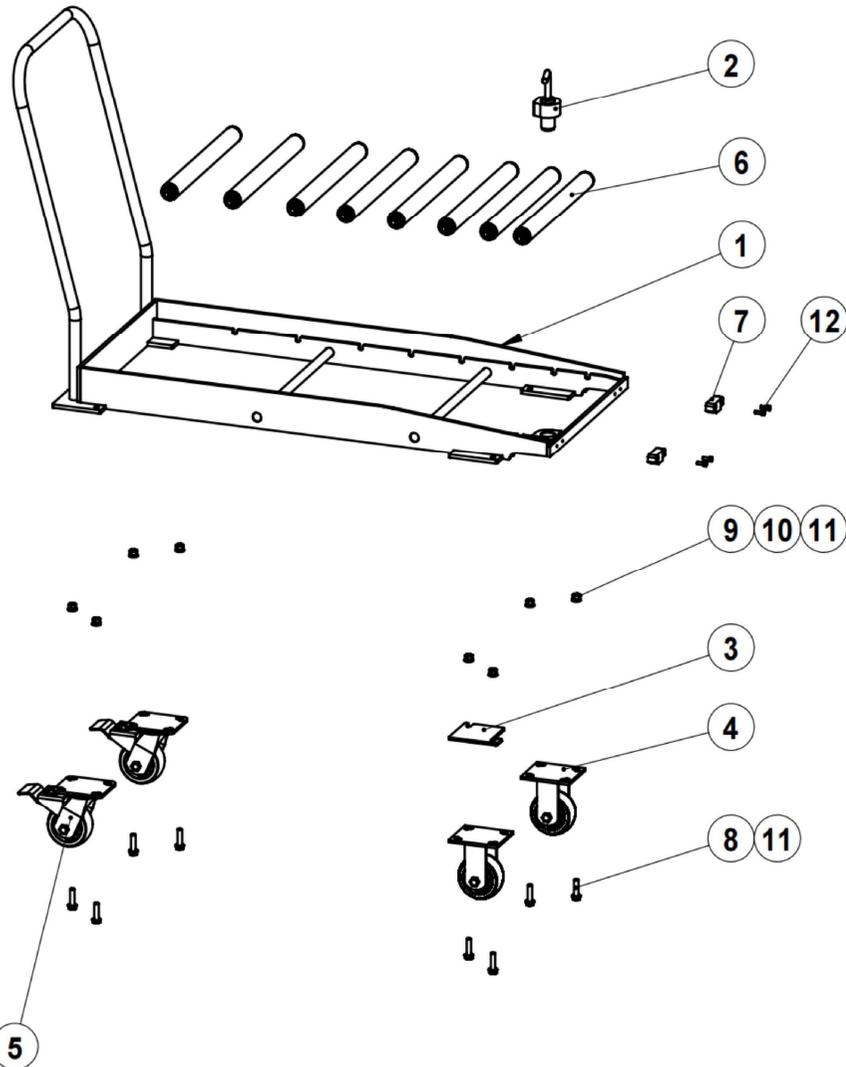
Applicable to MC16 Series



No.	Code	Name	Qty.	Remarks
25	DL2280-24V	Electric horn	1	
26	ZB030048024TA-BYT	DC converter	1	
27	JD202S	Solid-state relay	1	
28	FA4838-8Q	Electric control assembly	1	See label for specific part number.
29	1222-5101-1	Electric control assembly	1	See label for specific part number.
30	DBS3GE-BBAK01000-1	Encoder	1	
31	EKS-E-C	Password lock with card swipe function	1	
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Figure 8-1 MC16.8.1 Battery Replacement Trolley Assembly

Applicable to MC12 and MC16 Series



No.	Code	Name	Qty.	Remarks
1	MC16.8.2.1	Battery replacement cart welded together	1	
2	MC16.8.2.2	Latch welded together	1	
3	MC10.8.2.2SQ	Adjustment washers	several	
4	35C04-1152	4-inch flat-bottom fixed caster	2	
5	35C20-1152	4-inch flat-bottom swivel caster with brake	2	
6	1.200.SDC.ACB-410W	Roller	8	
7	BSB01.02	Shock absorber	2	
8	GB5783 M10×40	Hexagon head bolt	8	
9	GB6170 M10	Type 1 hexagon nut	8	
10	GB9310	Spring washer	8	
11	GB97.110	Flat washer	16	
12	GB70.1 M6×16	Hexagon socket head cap screw	4	
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