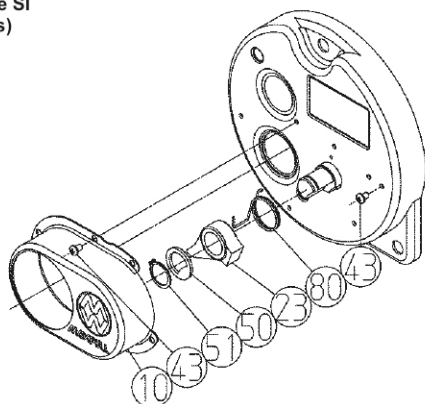


Appendix 2. Parts List for Each Model

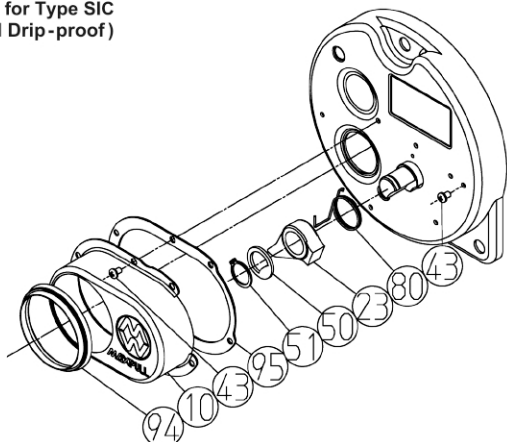
1. Parts List for Type SI, SIC and NSIL

Parts List for Type SI (Stopper Armless)



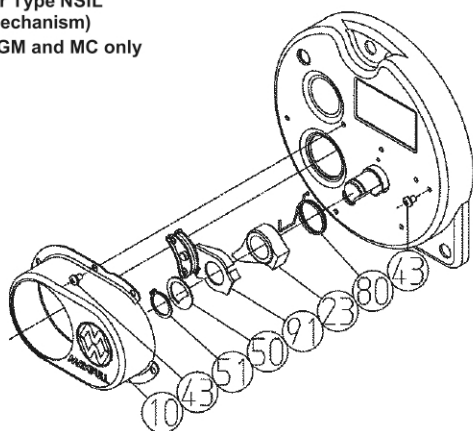
Part No.	Part Name	Qty	Remarks
10	Clutch Cover	1	*11
23	Stopper	1	*11
43	Tapping Screw	M5×8	7
50	Hinge Pin Washer		1
51	Retaining Ring C Type	S-22	1
80	Torsion Spring		1 *11

Parts List for Type SIC (Dust and Drip-proof)



Part No.	Part Name	Qty	Remarks
10	Clutch Cover	1	*11
23	Stopper	1	*11
43	Tapping Screw	M5×8	7
50	Hinge Pin Washer		1
51	Retaining Ring C Type	S-22	1
80	Torsion Spring		1 *11
94	Clutch Sealed Ring		1 *13
95	Clutch Sealed Packing		1 *13

Parts List for Type NSIL (Noiseless Mechanism) * For Model GM and MC only



Part No.	Part Name	Qty	Remarks
10	Clutch Cover	1	*11
23	Stopper	1	*11
43	Tapping Screw	M5×8	7
50	Hinge Pin Washer		1
51	Retaining Ring C Type	S-22	1
80	Torsion Spring		1 *11
91	Magnetic Plate	1Set	*12

*11 Type SI, SIC and NSIL

*12 Type NSIL

*13 Type SIC

2. Parts List for GM-1, MR-1, MC-1, ST-1, SB-1, ESB-1, RST-1, RSB-1, ERSB-1, STC-1, SBC-1 and ESBC-1

Part No.		Part Name	Qty	Remarks
1-C		Side Frame A	1	
3		Bed Plate	1	
4-B		Side Frame B	1	
5		Drum	1	*1
6		Wire Anchoring Plate	1	
8-A		Hexagon Socket Button Head Cap Screw M6×10	2	*2
10		Clutch Cover	1	
11-A		Drum Shaft	1	
17		Ratchet Metal	1	
18		Ratchet Gear	1	
19		Back Plate	1	
20		Clutch	1	
21		Brake Lining	2	
22		Dodecagon Hole Tongued Washer	1	
23		Stopper	1 Set	*3
25		Handle Holder	1	
26		Clutch Shield Plate	1	*4
27-A		Handle Arm	1	
28		Handle Grip	1	
29		Handle Washer	1	
30		Retaining Ring C Type	S-14	1
31		Stay Bolt	M8	1 *5
32-A		Hexagon Head Bolt	M8×18	6 *6
43		Tapping Screw	M5×8	7
45		Parallel Pin	1	
46		Washer	1	
47-A		Hexagon Nut	M10	1 *2
50		Hinge Pin Washer	1	
51		Retaining Ring C Type	S-22	1
52		Safety Leaf Spring	1	
56		Phillips Pan Head Screw	M8×15	2
58-A		Bearing	6005ZZ	1
59-A		Bearing	6005ZZ	1
70		Axis	1	Model MR
71		Ratchet Wheel	1	Model MR
72		Hexagon Socket Head Cap Screw	M8×15	2 Model MR
73		Ratchet Handle	1	Model MR
74		Switch Lever	1 Set	Model MR
75		Coil Spring	1	Model MR
76		Switch Pin	1	Model MR
77		Hexagon Socket Head Cap Screw	M6×15	2 Model MR
5-B		Capstan Drum	1	Model MC

* 1 No.5-B for Model MC, STC, SBC and ESBC

* 2 with Helical Spring Lock Washer

* 3 with Ball and Spring ASSY

* 4 Not attached on Model MR, RST, RSB and ERSB

* 5 with 2 Nuts and 2 Helical Spring Lock Washers

* 6 with Helical Spring Lock Washer, Plain Washer and Nut

* 7 M8×16 for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 8 6005ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

3. Parts List for GM-3, MR-3, MC-3, ST-3, SB-3, ESB-3, RST-3, RSB-3, ERSB-3, STC-3, SBC-3 and ESBC-3

Part No.		Part Name	Qty	Remarks
1-A		Gear Case	1	
2-A		Gear Case Cover	1	
3		Bed Plate	1	
4-A		Side Frame	1	
5		Drum	1	*1
6		Wire Anchoring Plate	1	
8-A		Hexagon Socket Button Head Cap Screw M6×10	2	*2
10		Clutch Cover	1	
11-B		Drum Shaft Main Gear	1Set	*3
12		Shaft Distance Piece	1	
13		Spur Gear Pinion	1Set	
14		Clutch Pinion	1	
15		Shaft Washer A	1	
16		Shaft Washer B	1	
17		Ratchet Metal	1	
18		Ratchet Gear	1	
19		Back Plate	1	
20		Clutch	1	
21		Brake Lining	2	
22		Dodecagon Hole Tongued Washer	1	
23		Stopper	1Set	*4
25		Handle Holder	1	
26		Clutch Shield Plate	1	*5
27-A		Handle Arm	1	
28		Handle Grip	1	
29		Handle Washer	1	
30		Retaining Ring C Type	S-14	1
31		Stay Bolt	M12	1 *6
32-B		Hexagon Head Bolt	M12×50	2 *7
36-A		Hexagon Head Bolt	M10×16	2 *2
38-A		Hexagon Head Bolt	M10×16	2 *2
40		Hexagon Head Bolt	M12×25	2 *7
43		Tapping Screw	M5×8	7
44-A		Spacer		1
44-B		Spacer		2
45		Parallel Pin		1
46		Washer		1
47-A		Hexagon Nut	M10	1 *2
50		Hinge Pin Washer		1
51		Retaining Ring C Type	S-22	1
52		Safety Leaf Spring		1
56		Phillips Pan Head Screw	M8×15	2 *8
58-B		Bearing	6006ZZ	1 *9
59-B		Bearing	6004ZZ	3 *10
60-A		Bearing	6005ZZ	1 *11
61		Retaining Ring C Type	S-30	1
70		Axis		1 Model MR
71		Ratchet Wheel		1 Model MR
72		Hexagon Socket Head Cap Screw	M8×15	2 Model MR
73		Ratchet Handle		1 Model MR
74		Switch Lever	1Set	Model MR
75		Coil Spring		1 Model MR
76		Switch Pin		1 Model MR
77		Hexagon Socket Head Cap Screw	M6×15	2 Model MR
5-B		Capstan Drum		1 Model MC

* 1 No.5-B for Model MC, STC, SBC and ESBC

* 2 with Helical Spring Lock Washer

* 3 with Bearing ASSY

* 4 with Ball and Spring ASSY

* 5 Not attached on Model MR, RST, RSB and ERSB

* 6 with 4 Nuts and 3 Helical Spring Lock Washers

* 7 with Helical Spring Lock Washer, Plain Washer and Nut

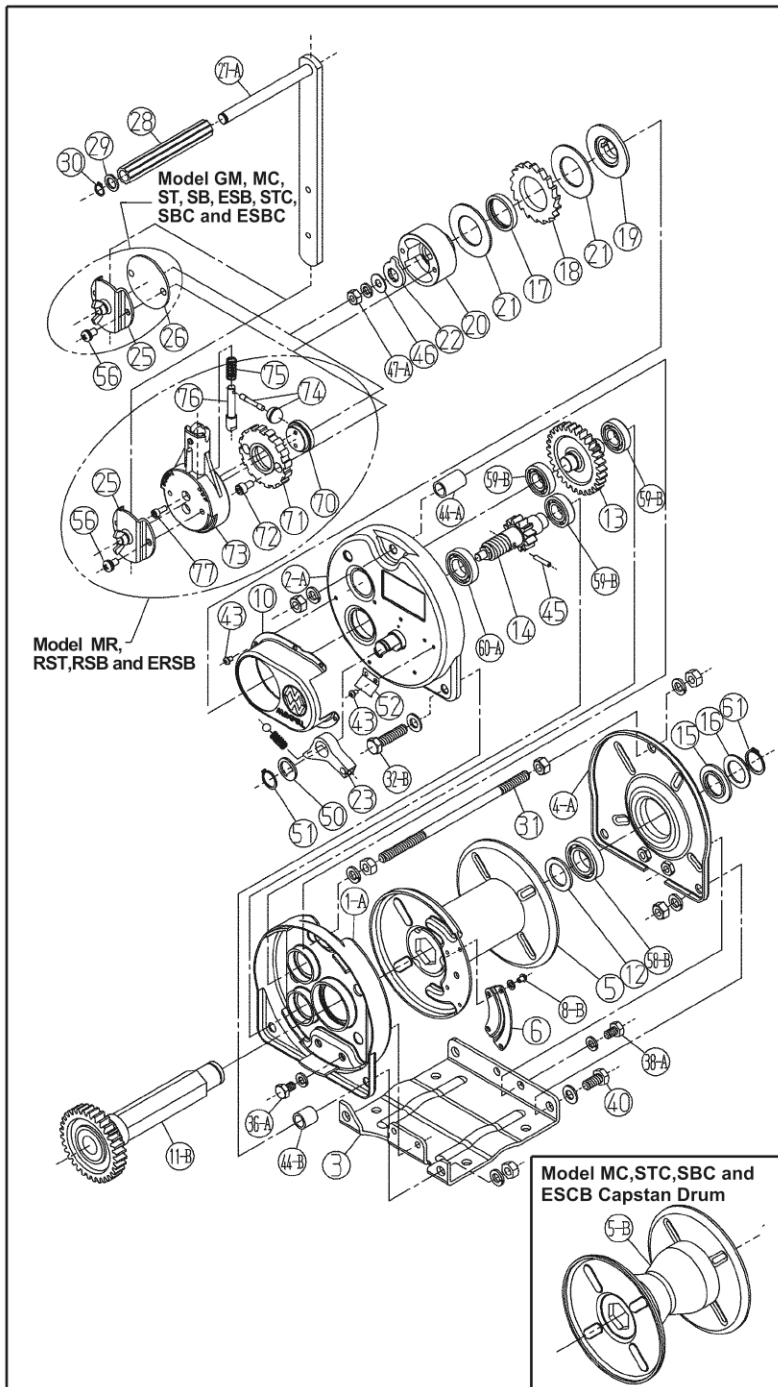
* 8 M8×16 for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 9 6006ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 10 6004ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 11 6005ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

4. Parts List for GM-5 & 10, MR-5 & 10, MC-5 & 10, ST-5 & 10, SB-5 & 10, ESB-5 & 10, RST-5 & 10, RSB-5 & 10, ERSB-5 & 10, STC-5 & 10, SBC-5 & 10 and ESBC-5 & 10



Part No.	Part Name	Qty	Remarks
1-A	Gear Case	1	
2-A	Gear Case Cover	1	
3	Bed Plate	1	
4-A	Side Frame	1	
5	Drum	1	*1
6	Wire Anchoring Plate	1	
8-B	Hexagon Socket Button Head Cap Screw M6×10	4	*2
10	Clutch Cover	1	
11-B	Drum Shaft Main Gear	1Set	*3
12	Shaft Distance Piece	1	
13	Spur Gear Pinion	1Set	
14	Clutch Pinion	1	
15	Shaft Washer A	1	
16	Shaft Washer B	1	
17	Ratchet Metal	1	
18	Ratchet Gear	1	
19	Back Plate	1	
20	Clutch	1	
21	Brake Lining	2	
22	Dodecagon Hole Tongued Washer	1	
23	Stopper	1Set	*4
25	Handle Holder	1	
26	Clutch Shield Plate	1	*5
27-A	Handle Arm	1	*8
28	Handle Grip	1	
29	Handle Washer	1	
30	Retaining Ring C Type	S-14	1
31	Stay Bolt	M12	1 *6
32-B	Hexagon Head Bolt	M12×50	2 *7
36-A	Hexagon Head Bolt	M10×16	2 *2
38-A	Hexagon Head Bolt	M10×16	2 *2
40	Hexagon Head Bolt	M12×25	2 *7
43	Tapping Screw	M5×8	7
44-A	Spacer		1
44-B	Spacer		2
45	Parallel Pin		1
46	Washer		1
47-A	Hexagon Nut	M10	1 *2
50	Hinge Pin Washer		1
51	Retaining Ring C Type	S-22	1
52	Safety Leaf Spring		1
56	Phillips Pan Head Screw	M8×15	2 *9
58-B	Bearing	6006ZZ	1 *10
59-B	Bearing	6004ZZ	3 *11
60-A	Bearing	6005ZZ	1 *12
61	Retaining Ring C Type	S-30	1
70	Axis		1 Model MR
71	Ratchet Wheel		1 Model MR
72	Hexagon Socket Head Cap Screw	M8×15	2 Model MR
73	Ratchet Handle		1 Model MR
74	Switch Lever		1Set Model MR
75	Coil Spring		1 Model MR
76	Switch Pin		1 Model MR
77	Hexagon Socket Head Cap Screw	M6×15	2 Model MR
5-B	Capstan Drum		1 Model MC

* 1 No.5-B for Model MC, STC, SBC and ESBC

* 2 with Helical Spring Lock Washer

* 3 with Bearing ASSY

* 4 with Ball and Spring ASSY

* 5 Not attached on Model MR, RST, RSB and ERSB

* 6 with 4 Nuts and 3 Helical Spring Lock Washers

* 7 with Helical Spring Lock Washer, Plain Washer and Nut

* 8 for GM-5, MR-5, MC-5, ST-5, ST-10, SB-5, SB-10, ESB-5, ESB-10, RST-5, RST-10, RSB-5, RSB-10, ERSB-5, ERSB-10, STC-5, STC-10, SBC-5, SBC-10, ESBC-5 and ESBC-10 have no hole

* 9 M8×16 for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 10 6006ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 11 6004ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

* 12 6005ZZ Stainless Steel Bearing for Model ST, SB, ESB, RST, RSB, ERSB, STC, SBC and ESBC

5. Parts List for GM-20, MR-20 and MC-20

Part No.		Part Name	Qty	Remarks
1-A		Gear Case	1	
2-A		Gear Case Cover	1	
3		Bed Plate	1	
4-A		Side Frame	1	
5		Drum	1	*1
6		Wire Anchoring Plate	1	
8-B		Hexagon Socket Button Head Cap Screw M6×10	4	*2
10		Clutch Cover	1	
11-B		Drum Shaft Main Gear	1	Set *3
12		Shaft Distance Piece	1	
13		Spur Gear Pinion	1	Set *4
14		Clutch Pinion	1	
15		Shaft Washer A	1	
16		Shaft Washer B	1	
17		Ratchet Metal	1	
18		Ratchet Gear	1	
19		Back Plate	1	
20		Clutch	1	
21		Brake Lining	2	
22		Dodecagon Hole Tongued Washer	1	
23		Stopper	1	Set *5
25		Handle Holder	1	
26		Clutch Shield Plate	1	*6
27-A		Handle Arm	1	
27-B		Box handle Arm	1	*6
28		Handle Grip	2	
29		Handle Washer	2	
30		Retaining Ring C Type	S-14	2
31		Stay Bolt	M14	1
32-C		Hexagon Head Bolt	M12×75	2
32-F		Hexagon Head Bolt	M12×80	2
36-B		Hexagon Head Bolt	M12×25	2
38-B		Hexagon Head Bolt	M12×25	3
38-C		Hexagon Head Bolt	M12×25	1
43		Tapping Screw	M5×8	7
45		Parallel Pin		1
46		Washer		1
47-A		Hexagon Nut	M10	1
50		Hinge Pin Washer		1
51		Retaining Ring C Type	S-22	1
52		Safety Leaf Spring		1
56		Phillips Pan Head Screw	M8×15	2
58-C		Bearing	6008Z	1
59-C		Bearing	6205Z	1
60-B		Bearing	6205	3
61		Retaining Ring C Type	S-30	1
70		Axis		1
71		Ratchet Wheel		1
72		Hexagon Socket Head Cap Screw	M8×15	2
73		Ratchet Handle		1
74		Switch Lever		1
75		Coil Spring		1
76		Switch Pin		1
77		Hexagon Socket Head Cap Screw	M6×15	2
13-B		Spur Gear Pinion		1
5-B		Capstan Drum		1

* 1 No.5-B for Model MC

* 2 with Helical Spring Lock Washer

* 3 with Bearing ASSY

* 4 No.13-B for Model MR

* 5 with Ball and Spring ASSY

* 6 Not attached on Model MR

* 7 with 4 Nuts and 3 Helical Spring Lock Washers

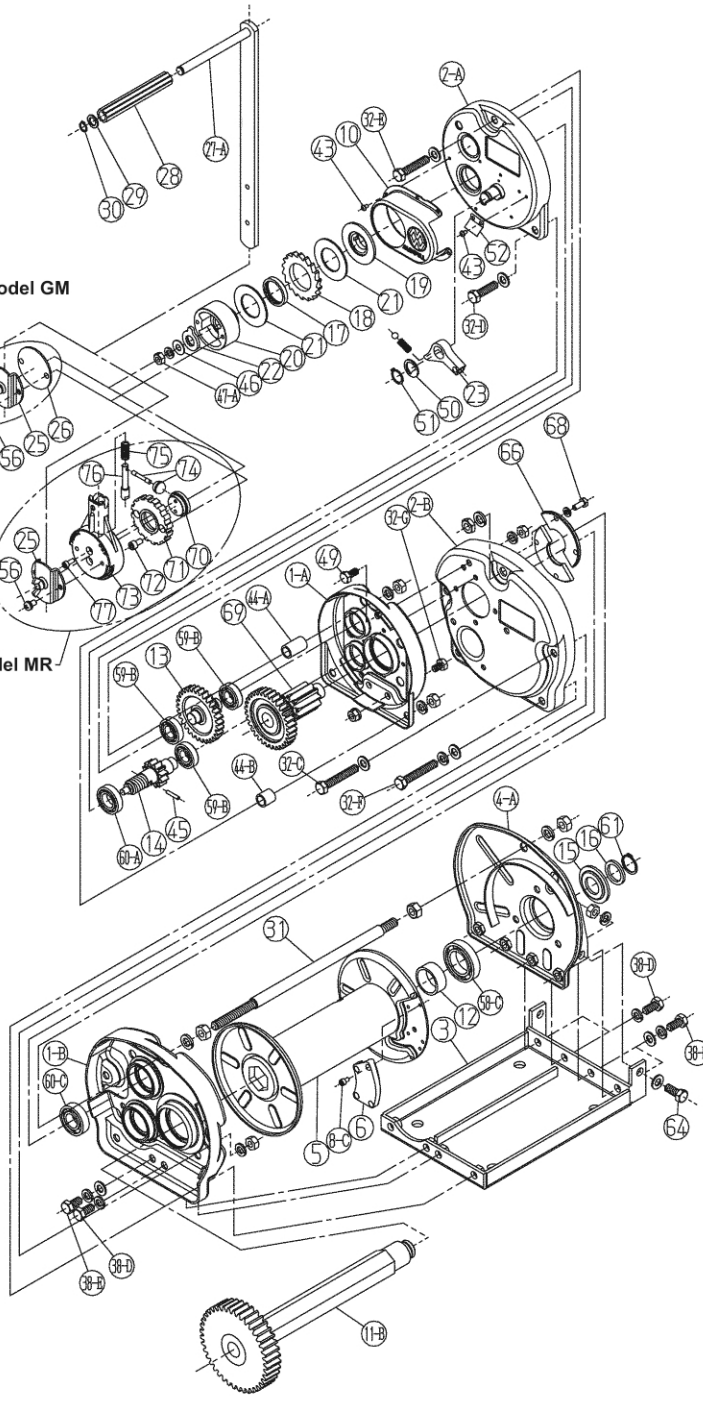
* 8 with Helical Spring Lock Washer, Plain Washer and Nut

* 9 with Helical Spring Lock Washer and Plain Washer

Model : GM, MR, MC, ST, SB, ESB,
RST, RSB, ERSB, STC, SBC, ESB

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6. Parts List for GM-30 and MR-30

		Part No.	Part Name	Qty	Remarks
		1-A	Gear Case Small	1	
		1-B	Gear Case Large	1	
		2-A	Gear Case Cover Small	1	
		2-B	Gear Case Cover Large	1	
		3	Bed Plate	1	
		4-A	Side Frame	1	
		5	Drum	1	
		6	Wire Anchoring Plate	1	
		8-C	Hexagon Socket Head Cap Screw	M6×10	4
		10	Clutch Cover	1	
		11-B	Drum Shaft Main Gear	1Set	*1
		12	Shaft Distance Piece	1	
		13	Spur Gear Pinion	1Set	
		14	Clutch Pinion	1	
		15	Shaft Washer A	1	
		16	Shaft Washer B	1	
		17	Ratchet Metal	1	
		18	Ratchet Gear	1	
		19	Back Plate	1	
		20	Clutch	1	
		21	Brake Lining	2	
		22	Dodecagon Hole Tongued Washer	1	
		23	Stopper	1Set	*2
		25	Handle Holder	1	
		26	Clutch Shield Plate	1	*3
		27-A	Handle Arm	1	
		28	Handle Grip	1	
		29	Handle Washer	1	
		30	Retaining Ring C Type	S-14	1
		31	Stay Bolt	M14	1 *4
		32-C	Hexagon Head Bolt	M12×75	2 *5
		32-D	Hexagon Head Bolt	M12×45	2 *5
		32-E	Hexagon Head Bolt	M12×60	1 *5
		32-F	Hexagon Head Bolt	M12×80	2 *6
		32-G	Hexagon Head Bolt	M10×16	2 *7
		38-D	Hexagon Head Bolt	M12×25	3 *8
		38-E	Hexagon Head Bolt	M12×25	3 *6
		43	Tapping Screw	M5×8	7
		44-A	Spacer		1
		44-B	Spacer		2
		45	Parallel Pin		1
		46	Washer		1
		47-A	Hexagon Nut	M10	1 *8
		49	Hexagon Head Bolt	M10×22	3 *7
		50	Hinge Pin Washer		1
		51	Retaining Ring C Type	S-22	1
		52	Safety Leaf Spring		1
		56	Phillips Pan Head Screw	M8×15	2
		58-C	Bearing	6008Z	1
		59-B	Bearing	6004	3
		60-A	Bearing	6005	1
		60-C	Bearing	6205	1
		61	Retaining Ring C Type	S-30	1
		64	Hexagon Head Bolt	M12×30	2 *5
		66	Division Disc		1Set *9
		68	Hexagon Head Bolt	M8×20	4 *8
		69	Main Gear Pinion		1Set *10
		70	Axis		1 Model MR
		71	Ratchet Wheel		1 Model MR
		72	Hexagon Socket Head Cap Screw	M8×15	2 Model MR
		73	Ratchet Handle		1 Model MR
		74	Switch Lever		1Set Model MR
		75	Coil Spring		1 Model MR
		76	Switch Pin		1 Model MR
		77	Hexagon Socket Head Cap Screw	M6×15	2 Model MR

* 1 with Bearing ASSY

* 2 with Ball and Spring ASSY

* 3 Not attached on Model MR

* 4 with 4 Nuts and 3 Helical Spring Lock Washers

* 5 with Helical Spring Lock Washer, Plain Washer and Nut

* 6 with Helical Spring Lock Washer and Plain Washer

* 7 with Nut and Helical Spring Lock Washer

* 8 with Helical Spring Lock Washer

* 9 4 Pieces Set

* 10 with Bearing