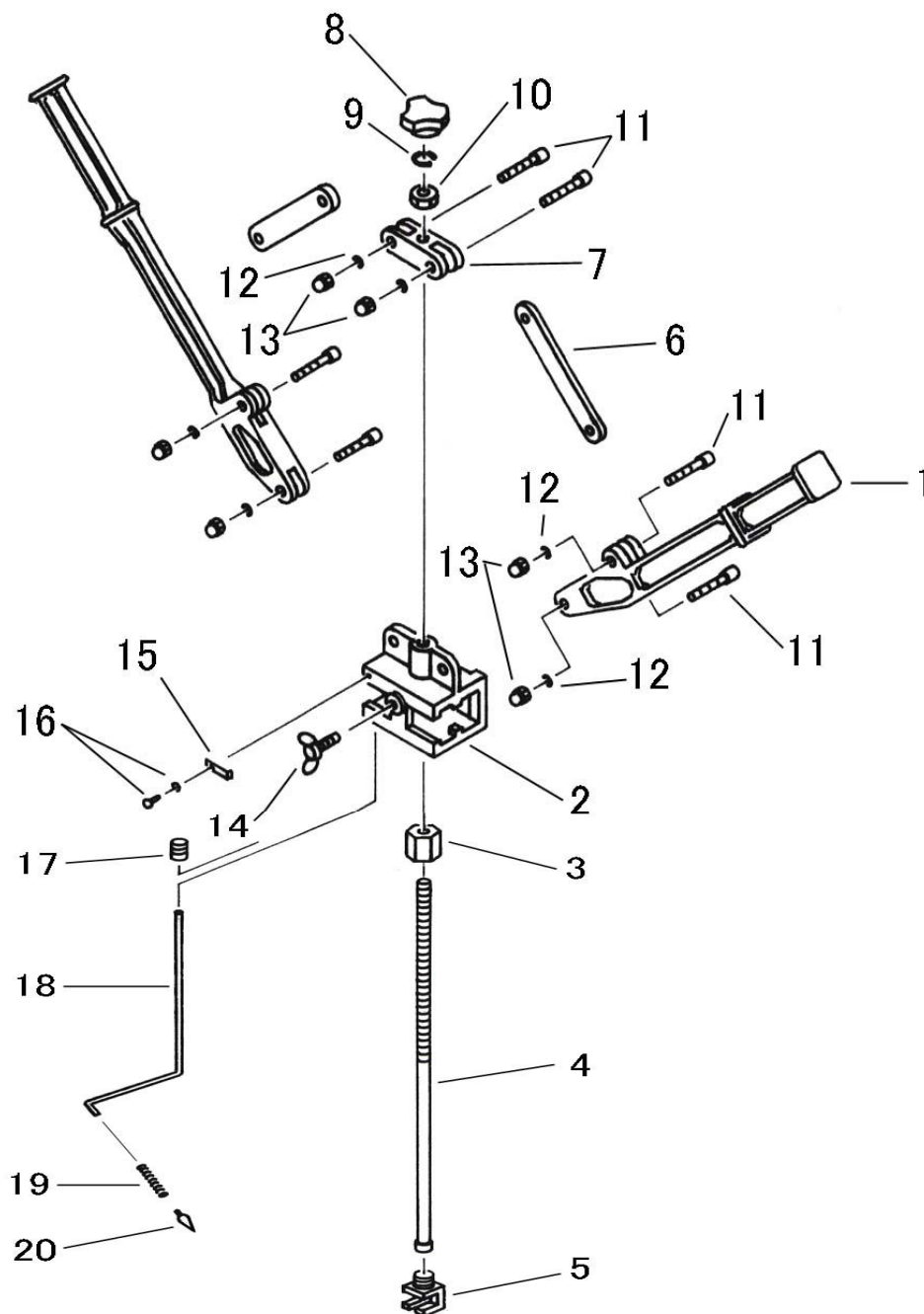
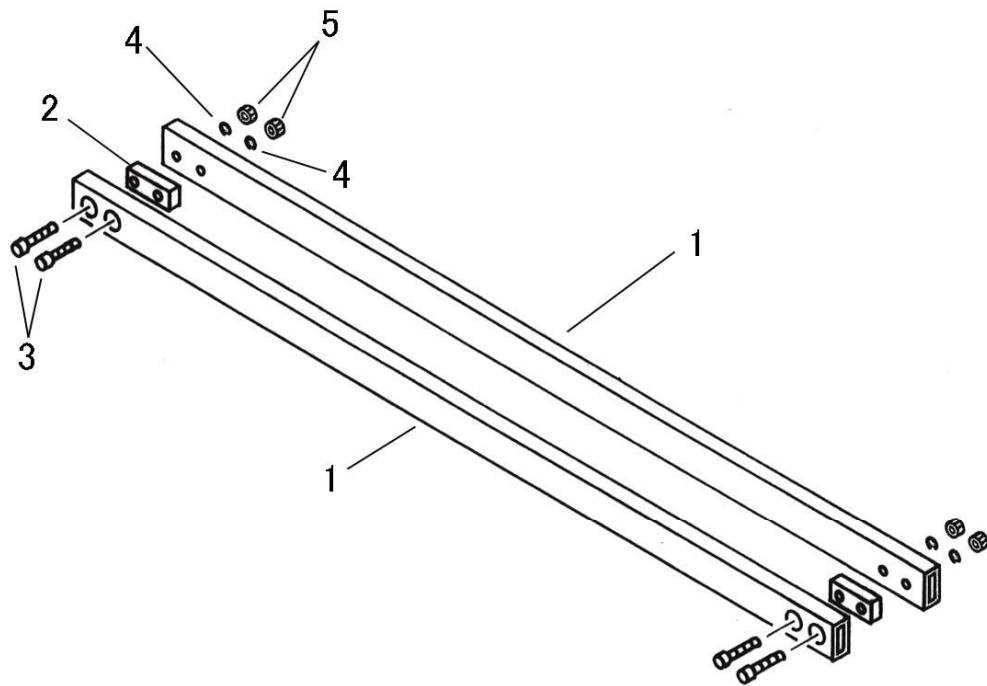
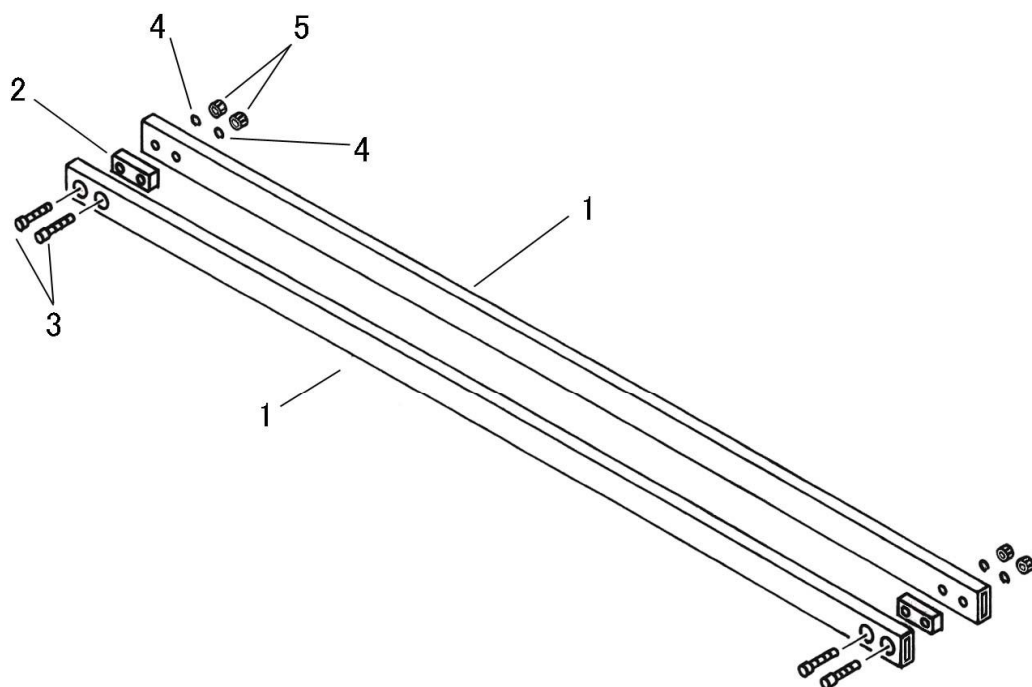


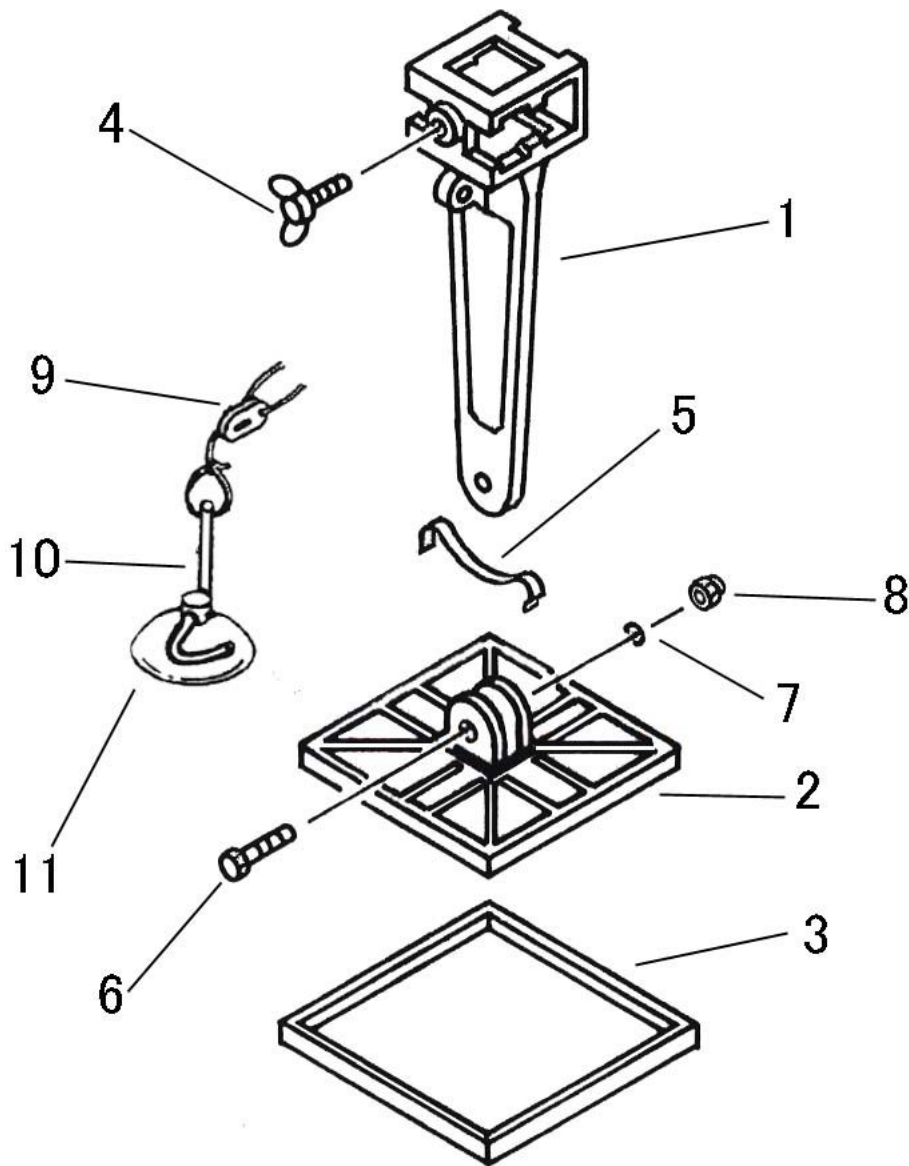


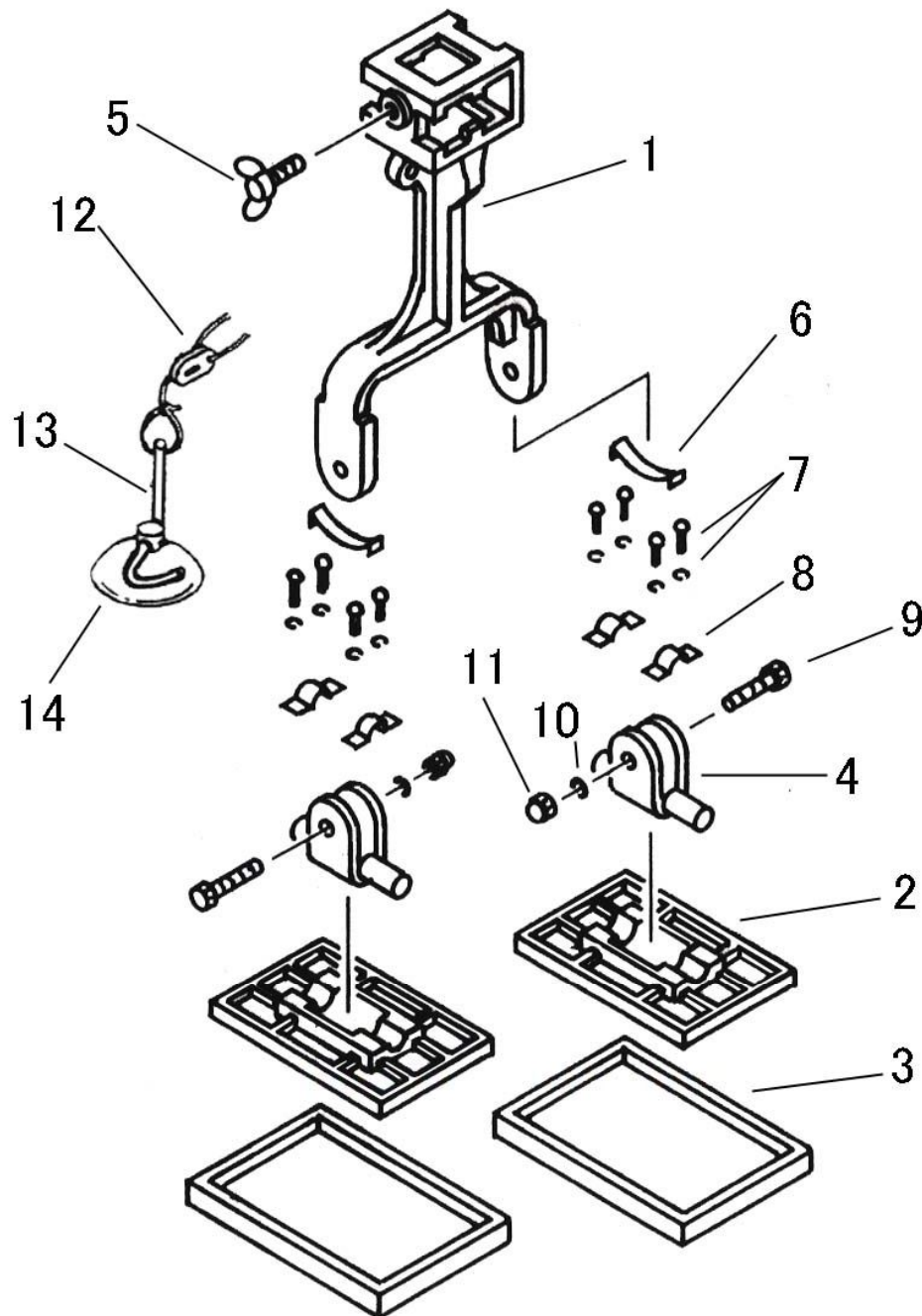
PARTS BOOK 2008

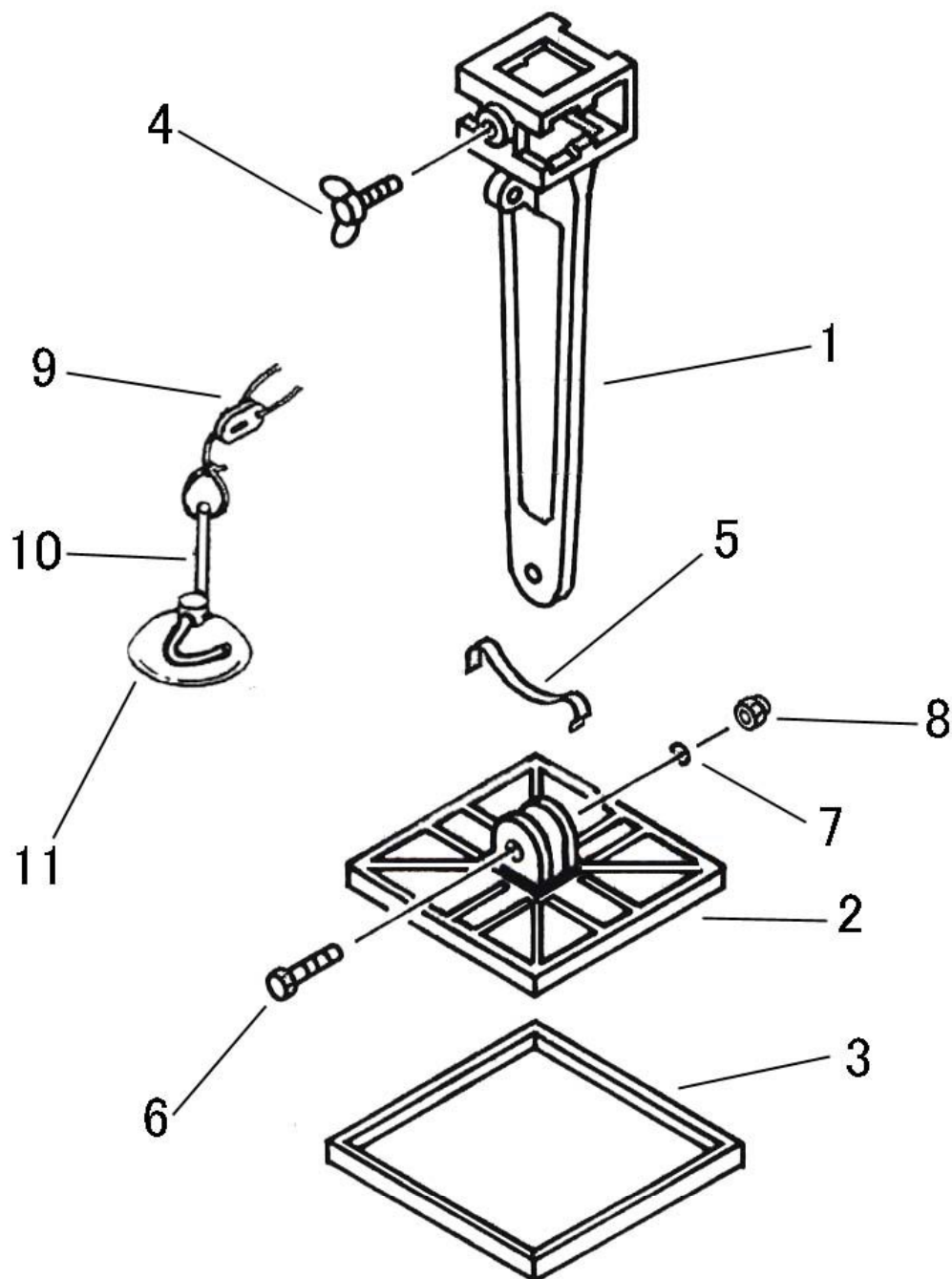
MS-38L	LINE PULLER
MS-13R	LEVER PULLER
MS-10Z	EASY PULLER
MS-23Z	EASY PULLER
MS-17S	STRONG PULLER
MS-4P	PET
MS-7E	STUD
MS-5N	HAND PULLER
MA-1	MAGNETIC EARTH CLAMP
MS-C2	CONNECTOR
MS-C3	CONNECTOR
MS-Z2-C	EASY PULLER 2
MS-Z2-D	EASY PULLER 2
MS-Z2-E	EASY PULLER 2
MS-8J	STUD
MS-BK1	BIT CUTTER

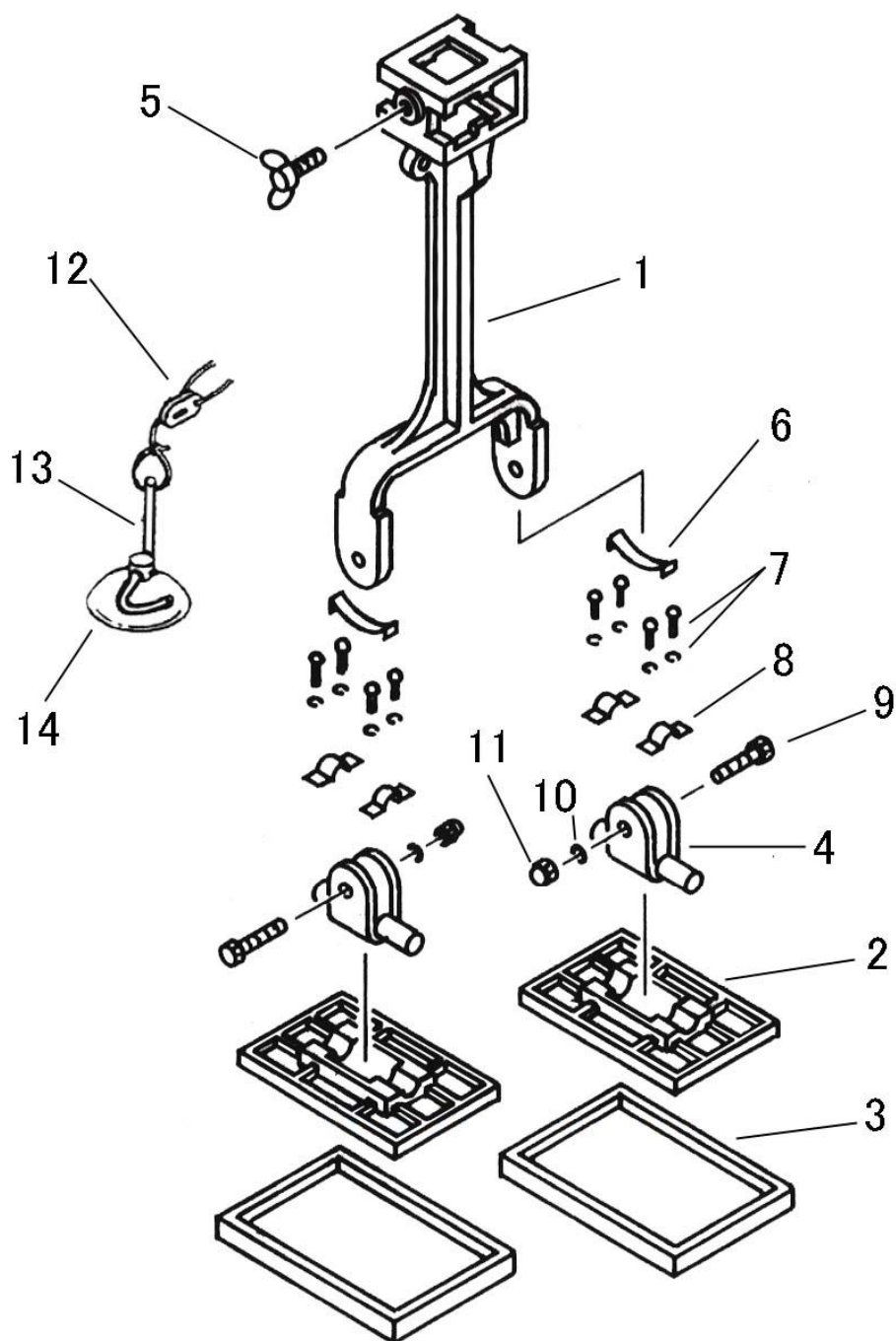
MS-38L**LINE PULLER 1/6****PULLER BODY**

MS-38L**LINE PULLER 2/6****FRAME 1250****FRAME 1600**

MS-38L**LINE PULLER 3/6****FLAT FOOT SHORT**

MS-38L**LINE PULLER 4/6****CORNER FOOT SHORT**

MS-38L**LINE PULLER 5/6****FLAT FOOT LONG**

MS-38L**LINE PULLER 6/6****CORNER FOOT LONG**

MS-38L**LINE PULLER**

NO.	CODE	DESCRIPTION	PCS.
PULLER BODY			
1	M3-08-00	Handle	2
2	M3-01-00	Slide Flame	1
3	AP-11-00	Shell	1
*4	M3-09-00	Center Shaft	1
5	AP-16-00	Hook	1
6	AP-05-00	Arm	2
7	AP-06-00	Center nut	1
*8	AP-15-00	Knob	1
9	AP-30-11	Washer 10mm	1
10	AP-15-02	Nut 10mm	1
11	AP-30-01	Hexagon bolt 8mm	6
12	AP-30-03	Washer 8mm	6
13	AP-30-02	Dome nut 8mm	6
*14	AP-30-05	Bow screw 8mm	1
15	M3-12-00	Level gauge holder	1
16	N-04-05	Screw with washer	1
*17	M3-15-00	Level gauge knob	1
*18	M3-10-00	Level gauge bar	1
*19	M3-13-00	Level gauge spring	1
*20	M3-14-00	Level gauge tip	1
FRAME 1250			
1	M3-04-00	Frame 1250mm	2
2	M3-06-00	Spacer	2
3	AP-30-13	Hexagon bolt 8mm	4
4	AP-30-09	Washer 8mm	4
5	HP-01-03	Nut 8mm	4
FRAME 1600			
1	M3-05-00	Frame 1600mm	2
2	M3-06-00	Spacer	2
3	AP-30-13	Hexagon bolt 8mm	4
4	AP-30-09	Washer 8mm	4
5	HP-01-03	Nut 8mm	4

PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MS-38L**LINE PULLER**

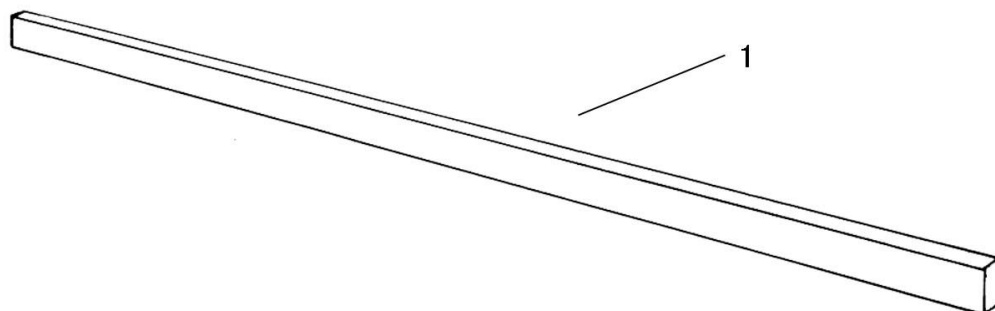
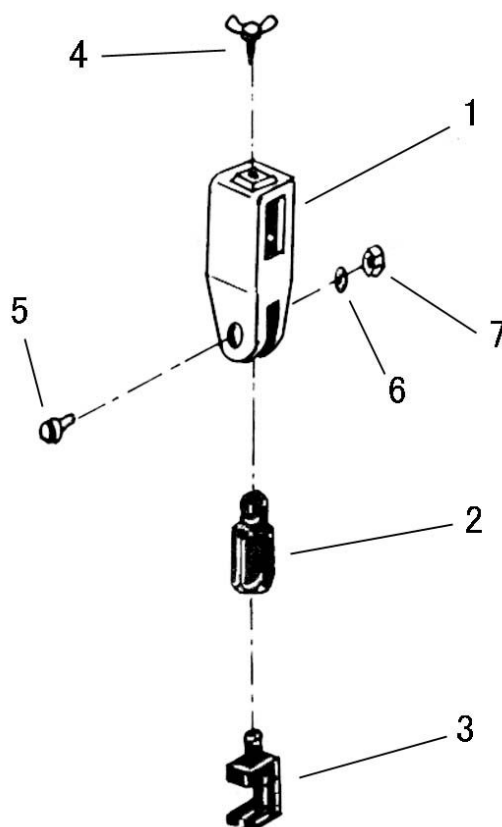
NO.	CODE	DESCRIPTION	PCS.
FLAT FOOT SHORT			
1	M3-02-00	Flat foot short body	1
2	AP-07-00	Flat foot board	1
*3	AP-17-00	Flat foot rubber pad	1
*4	AP-30-05	Bow screw 8mm	1
*5	LP-21-00	Tension spring L	1
6	AP-30-07	Bolt 8x35	1
7	AP-30-09	Washer 8mm	1
8	AP-30-08	Dome nut 8mm	1
*9	M3-17-00	Adjustment cord	1
*10	M3-16-02	Metal fitting	1
*11	M3-16-01	Suction cup	1
CORNER FOOT SHORT			
1	M3-03-00	Corner foot short body	1
2	AP-09-00	Corner foot board	2
*3	AP-12-00	Corner foot rubber pad	2
4	AP-08-00	Hinge	2
*5	AP-30-05	Bow screw 8mm	1
*6	AP-14-00	Tension spring S	2
7	AP-30-04	Bolt with washer 3mm	8
8	AP-13-00	Hinge holder	4
9	AP-30-06	Bolt 8x30	2
10	AP-30-09	Washer 8mm	2
11	AP-30-08	Dome nut 8mm	2
*12	M3-17-00	Adjustment cord	1
*13	M3-16-02	Metal fitting	1
*14	M3-16-01	Suction cup	1

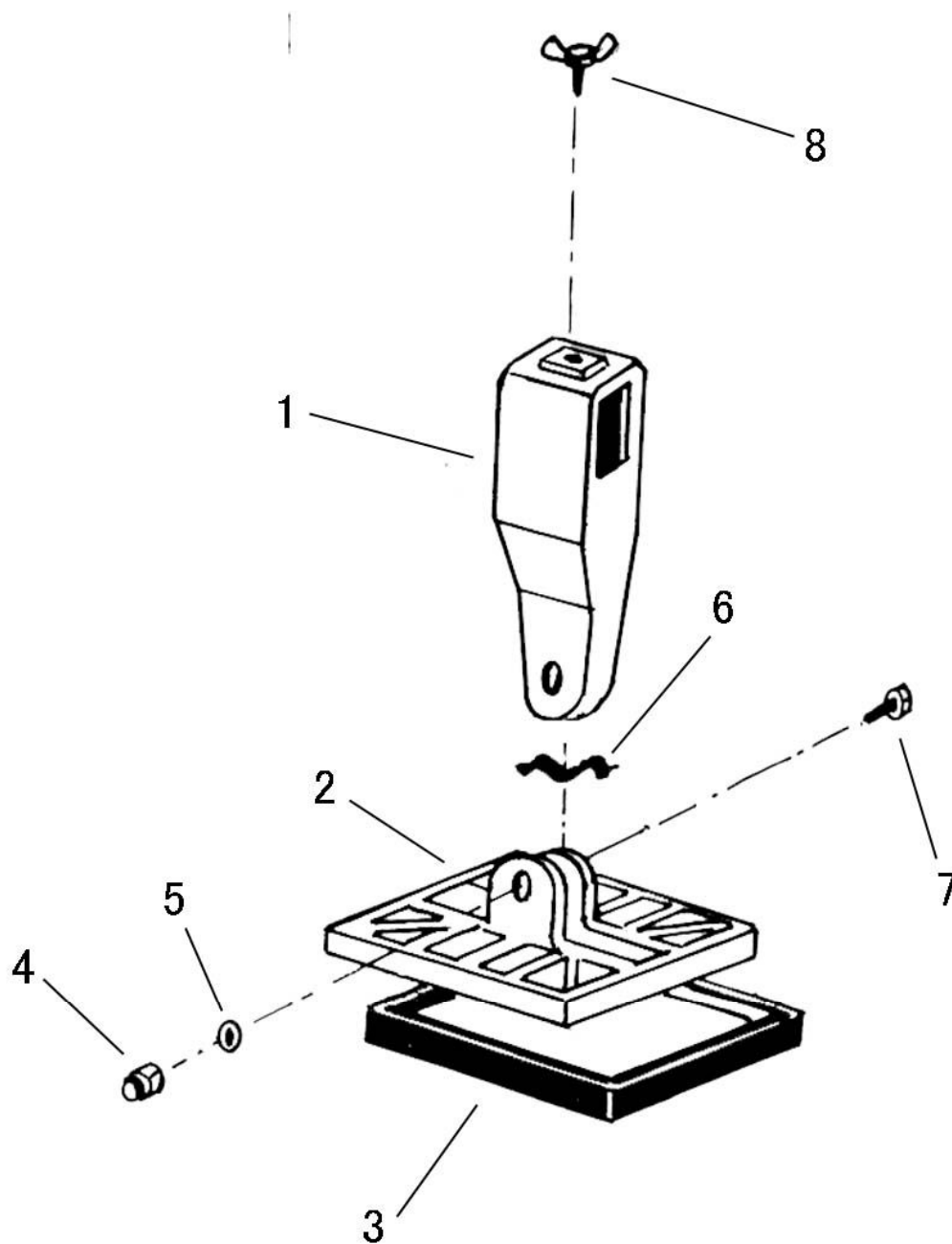
PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MS-38L**LINE PULLER**

NO.	CODE	DESCRIPTION	PCS.
FLAT FOOT LONG			
1	M3-50-01	Flat foot long body	1
2	AP-07-00	Flat foot board	1
*3	AP-17-00	Flat foot rubber pad	1
*4	AP-30-05	Bow screw 8mm	1
*5	LP-21-00	Tension spring L	1
6	AP-30-07	Bolt 8x35	1
7	AP-30-09	Washer 8mm	1
8	AP-30-08	Dome nut 8mm	1
*9	M3-17-00	Adjustment cord	1
*10	M3-16-02	Metal fitting	1
*11	M3-16-01	Suction cup	1
CORNER FOOT LONG			
1	M3-60-01	Corner foot long body	1
2	AP-09-00	Corner foot board	2
*3	AP-12-00	Corner foot rubber pad	2
4	AP-08-00	Hinge	2
*5	AP-30-05	Bow screw 8mm	1
*6	AP-14-00	Tension spring S	2
7	AP-30-04	Bolt with washer 3mm	8
8	AP-13-00	Hinge holder	4
9	AP-30-06	Bolt 8x30	2
10	AP-30-09	Washer 8mm	2
11	AP-30-08	Dome nut 8mm	2
*12	M3-17-00	Adjustment cord	1
*13	M3-16-02	Metal fitting	1
*14	M3-16-01	Suction cup	1

PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

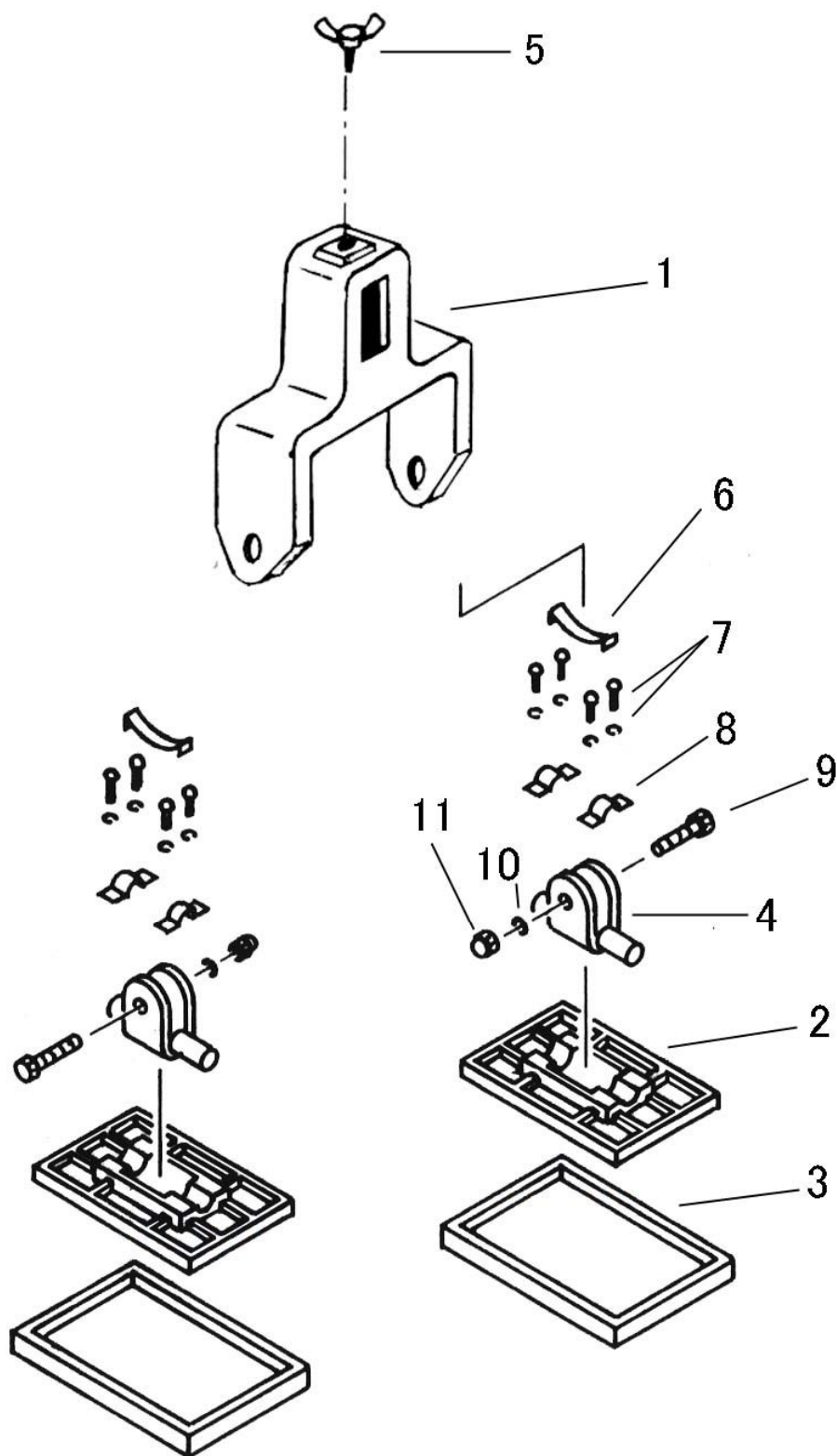
MS-13R**LEVER PULLER 1/3****BAR****PULLER BODY**

MS-13R**LEVER PULLER 2/3****FLAT FOOT**

MS-13R

LEVER PULLER 3/3

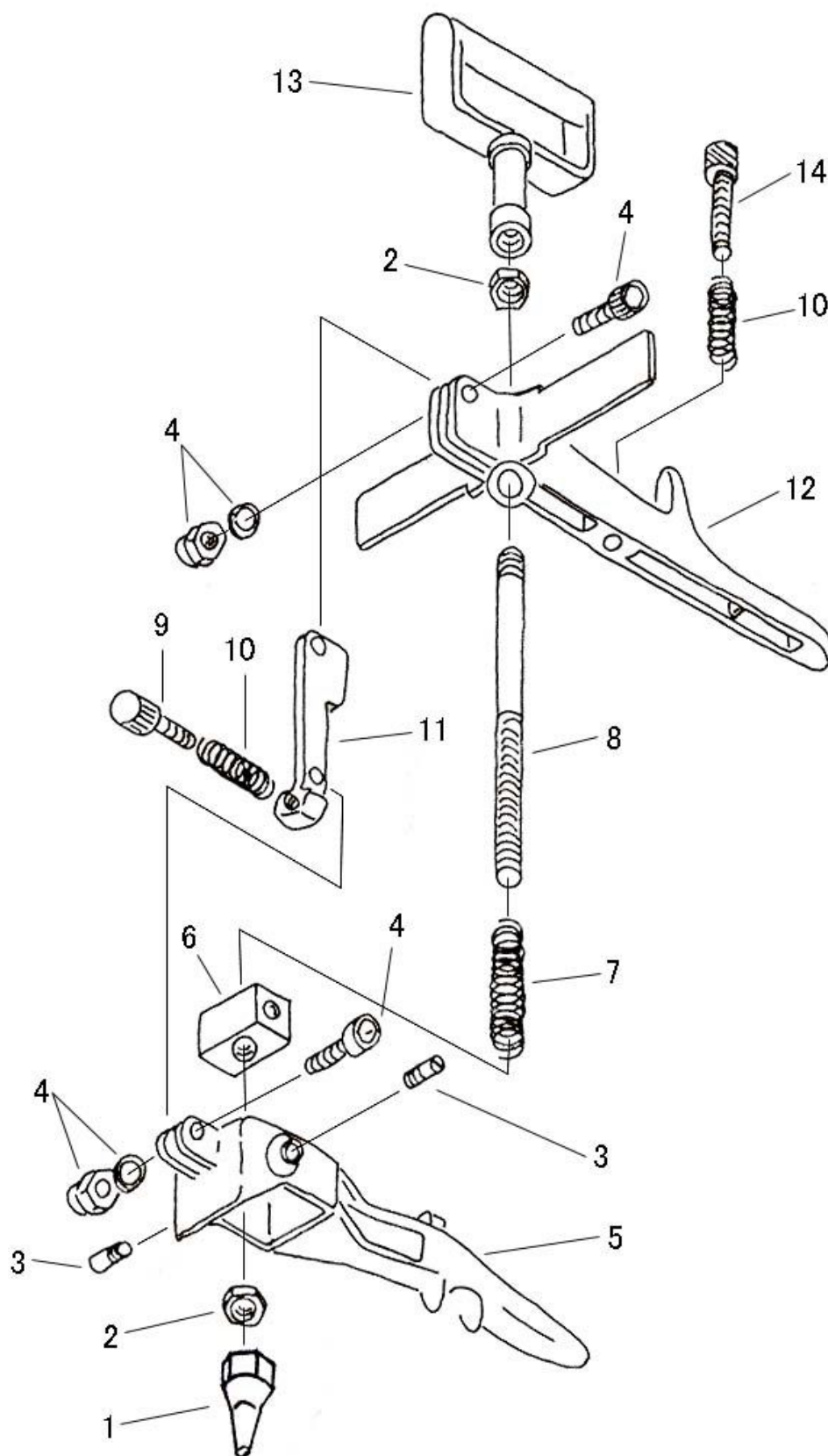
CORNER FOOT



MS-13R**LEVER PULLER**

NO.	CODE	DESCRIPTION	PCS.
BAR			
1	LP-17-01	Bar	1
PULLER BODY			
1	LP-04-00	Slide body	1
2	LP-22-00	Shell	1
3	AP-16-00	Hook	1
*4	AP-30-05	Bow screw 8mm	1
5	AP-30-07	Bolt 8x35	1
6	AP-30-09	Washer 8mm	1
7	AP-30-08	Dome nut 8mm	1
FLAT FOOT			
1	LP-02-00	Flat foot body	1
2	AP-07-00	Flat foot board	1
*3	AP-17-00	Flat foot rubber pad	1
4	AP-30-09	Washer 8mm	1
5	AP-30-08	Dome nut 8mm	1
*6	LP-21-00	Tension spring L	1
7	AP-30-07	Bolt 8x35	1
8	AP-30-05	Bow screw 8mm	1
CORNER FOOT			
1	LP-03-00	Corner foot body	1
2	AP-09-00	Corner foot board	2
*3	AP-12-00	Corner foot rubber pad	2
4	AP-08-00	Hinge	2
*5	AP-30-05	Bow screw 8mm	1
*6	AP-14-00	Tension spring S	2
7	AP-30-04	Bolt with washer 3mm	8
8	AP-13-00	Hinge holder	4
9	AP-30-06	Bolt 8x30	2
10	AP-30-09	Washer 8mm	2
11	AP-30-08	Dome nut 8mm	2

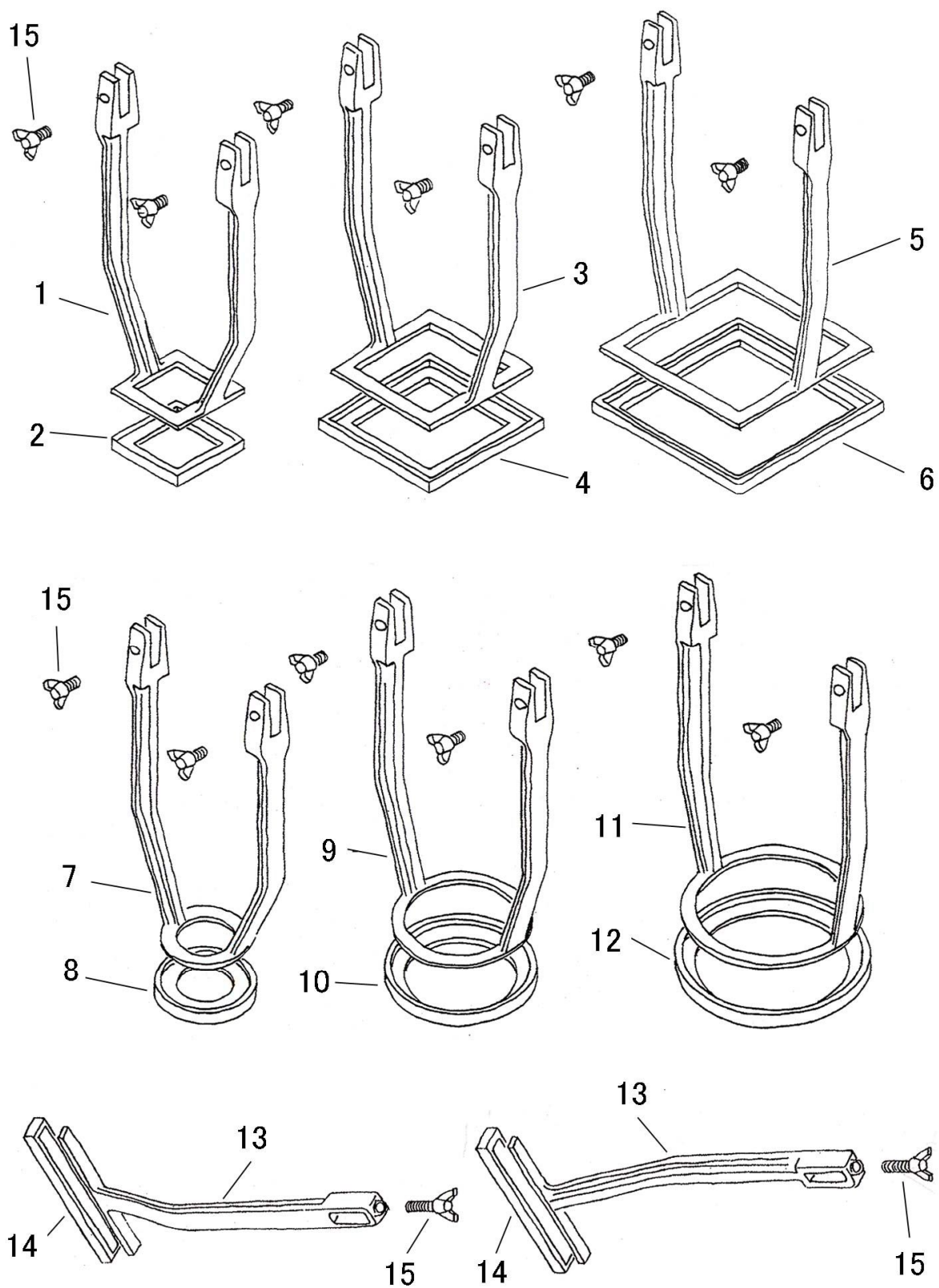
PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

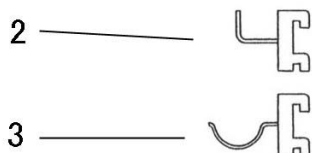
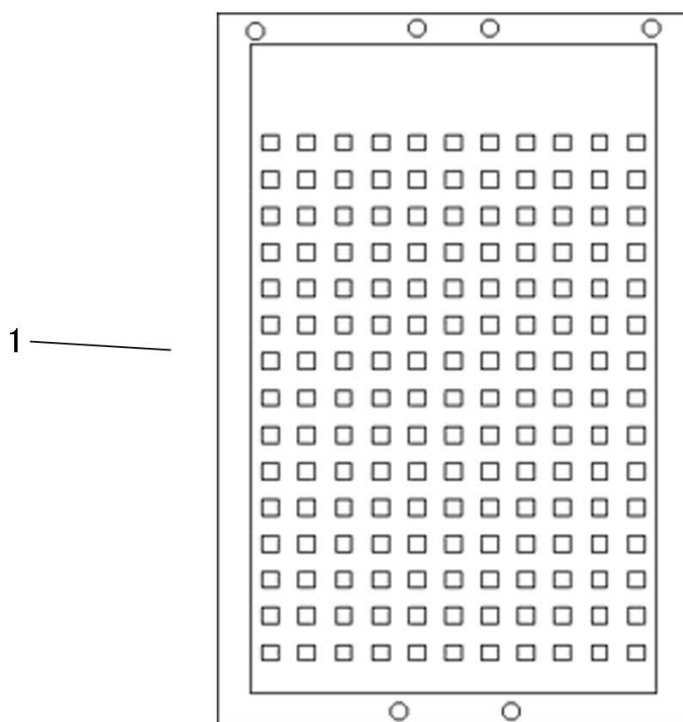
MS-10Z/23Z**EASY PULLER 1/3****PULLER BODY**

MS-10Z/23Z

EASY PULLER 2/3

FRAME

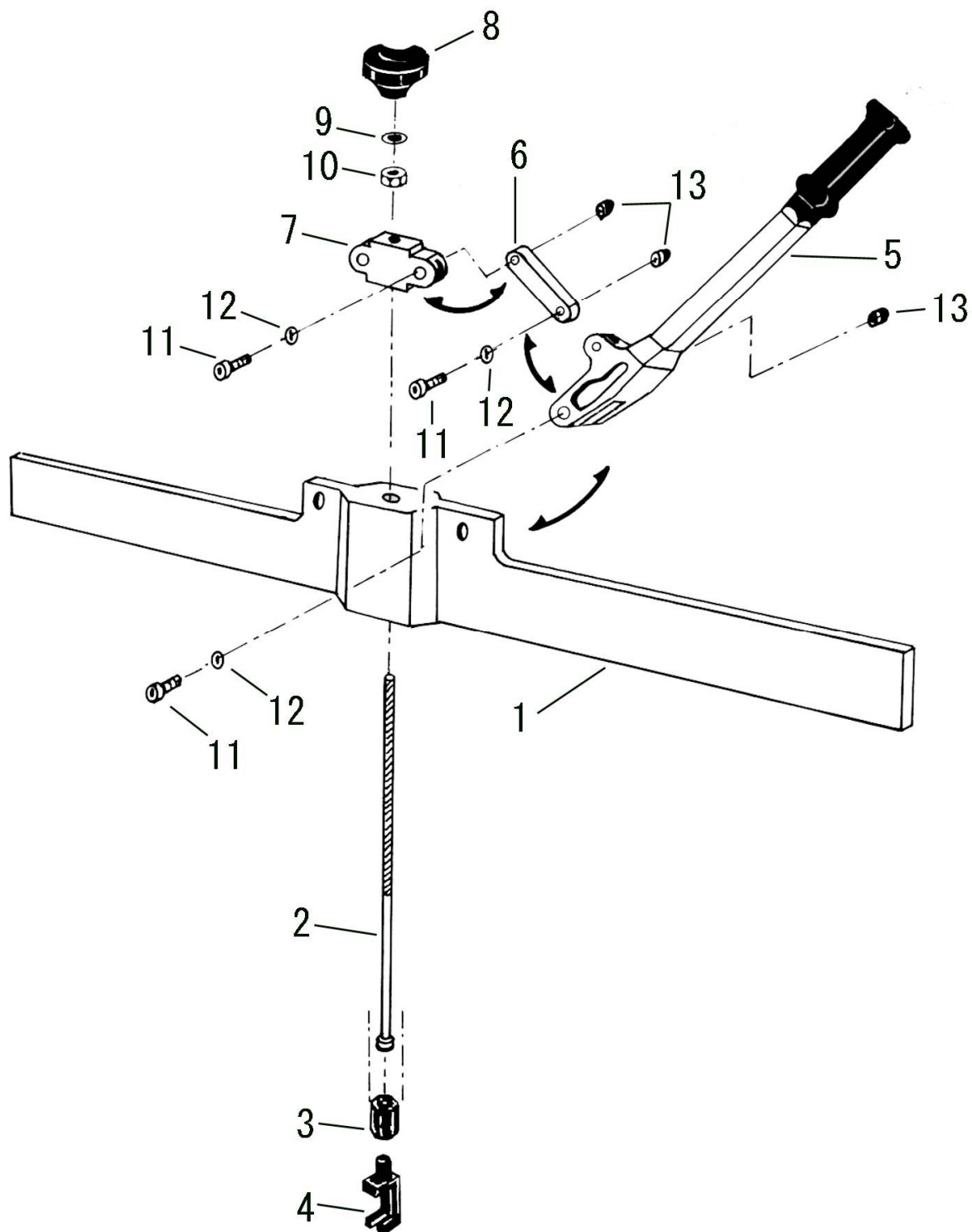


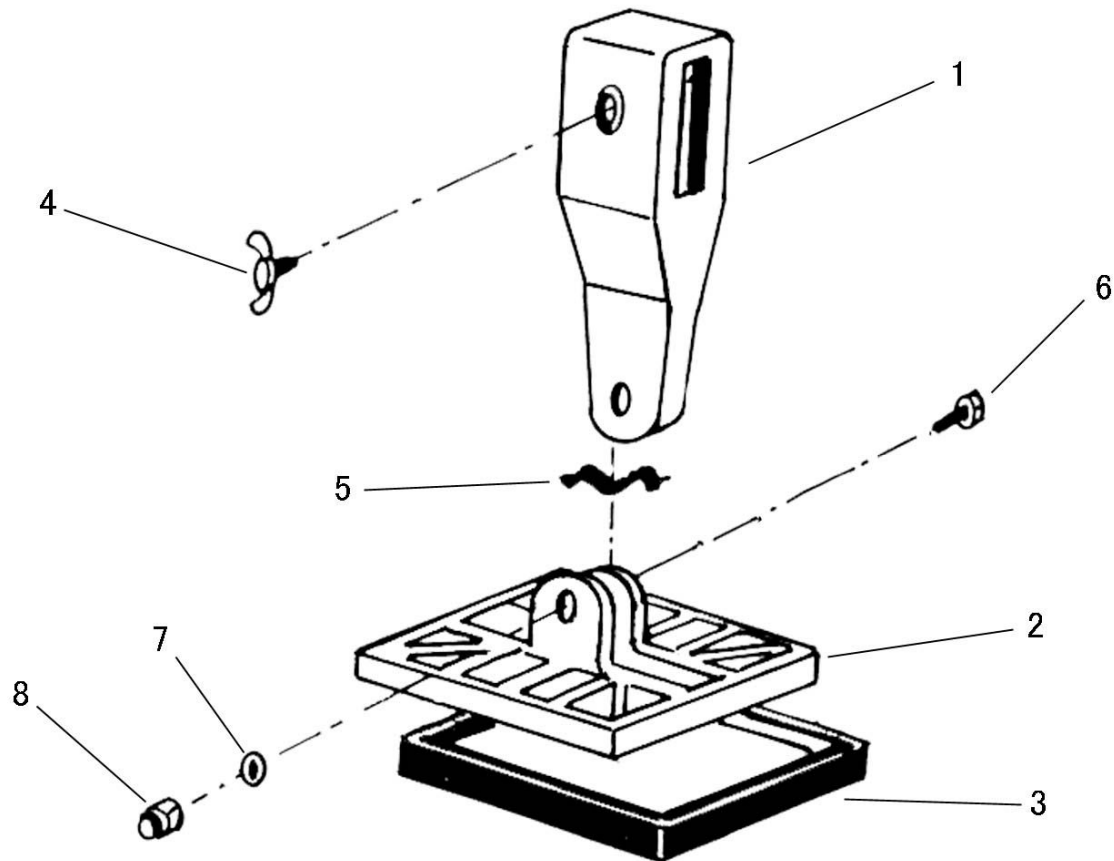
MS-10Z/23Z**EASY PULLER****3/3****PANEL**

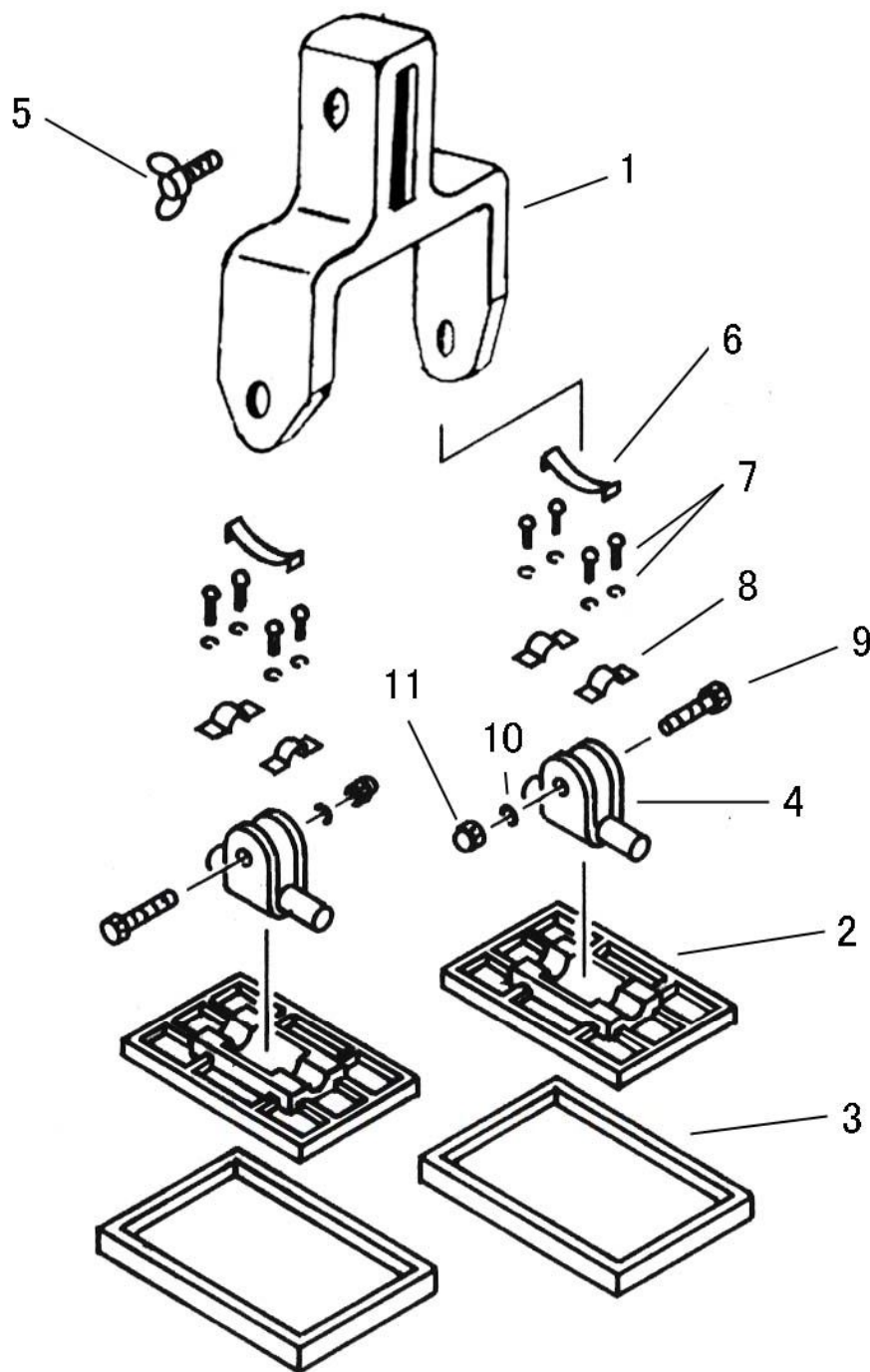
MS-10Z/MS-23Z**EASY PULLER**

NO.	CODE	DESCRIPTION	PCS.
PULLER BODY			
*1	M-01	Special bit	1
2	R-02	Hexagon nut	2
3	M-03	Screw	2
4	R-04	Cap screw set (bolt, nut, washer)	2
5	C-05	Second lever	1
6	M-06	Dice	1
*7	R-07	Center shaft spring 1.6ø x 13 x 120	1
8	M-08	Center shaft	1
9	M-09	Adjustment bolt	1
*10	R-10	Spring 1.0ø x 8.5 x 43	2
11	C-11	Connecting plate	1
12	C-12	Main lever	1
13	C-13	Handle	1
14	C-14	Stopper bolt	1
FRAME			
1	C-22	Square frame small	1
*2	R-23	Rubber pad for C-22	1
3	C-24	Square frame middle	1
*4	R-25	Rubber pad for C-24	1
5	C-26	Square frame large	1
*6	R-27	Rubber pad for C-26	1
7	C-28	Circle frame small	1
*8	R-29	Rubber pad for C-28	1
9	C-30	Circle frame middle	1
*10	R-31	Rubber pad for C-30	1
11	C-32	Circle frame large	1
*12	R-33	Rubber pad for C-32	1
13	C-34	Straight foot	2
*14	R-35	Rubber pad for C-34	2
*15	R-36	Bow screw 6 x 15	14
PANEL (MS-23Z)			
1	MS-PB	Panel	1
2	PB-L	L-Type hook	4
3	PB-U	U-Type hook	8

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-17S**STRONG PULLER 1/3****PULLER BODY**

MS-17S**STRONG PULLER 2/3****FLAT FOOT**

MS-17S**STRONG PULLER 3/3****CORNER FOOT**

MS-17S**STRONG PULLER**

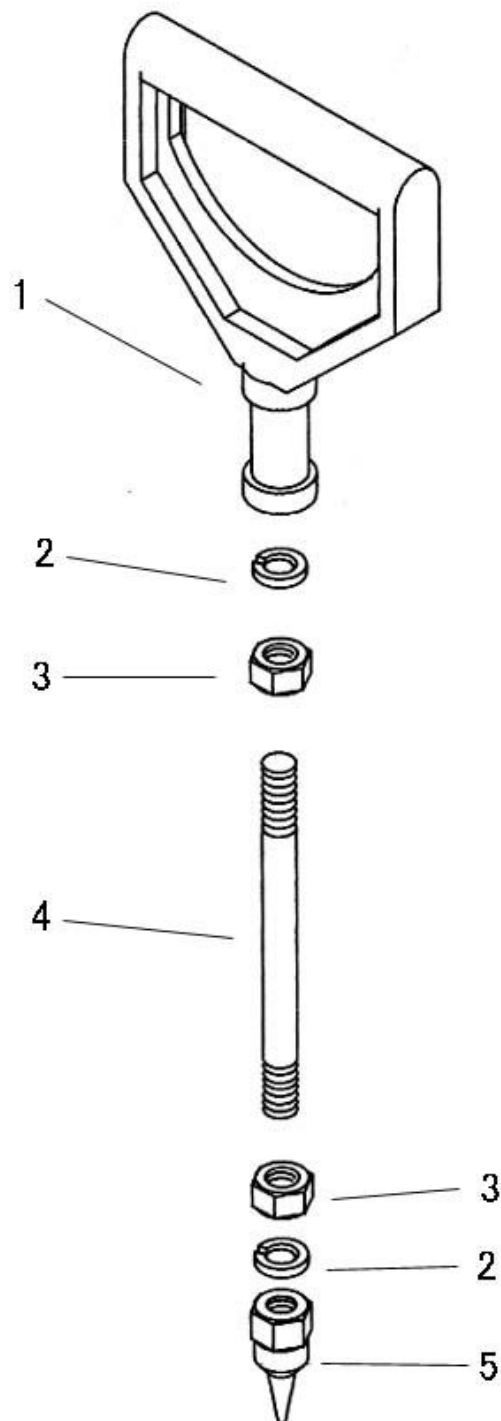
NO.	CODE	DESCRIPTION	PCS.
PULLER BODY			
1	AP-01-00	Frame	1
*2	AP-10-01	Center shaft	1
3	AP-11-00	Shell	1
4	AP-16-00	Hook	1
5	AP-02-01	Handle	2
6	AP-05-00	Arm	2
7	AP-06-00	Center nut	1
*8	AP-15-00	Knob	1
9	AP-30-11	Washer 11mm	1
10	AP-15-02	Nut 10mm	1
11	AP-30-01	Hexagon bolt 8mm	6
12	AP-30-03	Washer 8mm	6
13	AP-30-02	Dome nut 8mm	6
FLAT FOOT			
1	AP-03-00	Flat foot body	1
2	AP-07-00	Flat foot board	1
*3	AP-17-00	Flat foot rubber pad	1
*4	AP-30-05	Bow screw 8mm	1
*5	LP-21-00	Tension spring L	1
6	AP-30-07	Bolt 8x35	1
7	AP-30-09	Washer 8mm	1
8	AP-30-08	Dome nut 8mm	1
CORNER FOOT			
1	AP-04-00	Corner foot body	1
2	AP-09-00	Corner foot board	2
*3	AP-12-00	Corner foot rubber pad	2
4	AP-08-00	Hinge	2
*5	AP-30-05	Bow screw 8mm	1
*6	AP-14-00	Tension spring S	2
7	AP-30-04	Bolt with washer 3mm	8
8	AP-13-00	Hinge holder	4
9	AP-30-06	Bolt 8x30	2
10	AP-30-09	Washer 8mm	2
11	AP-30-08	Dome nut 8mm	2

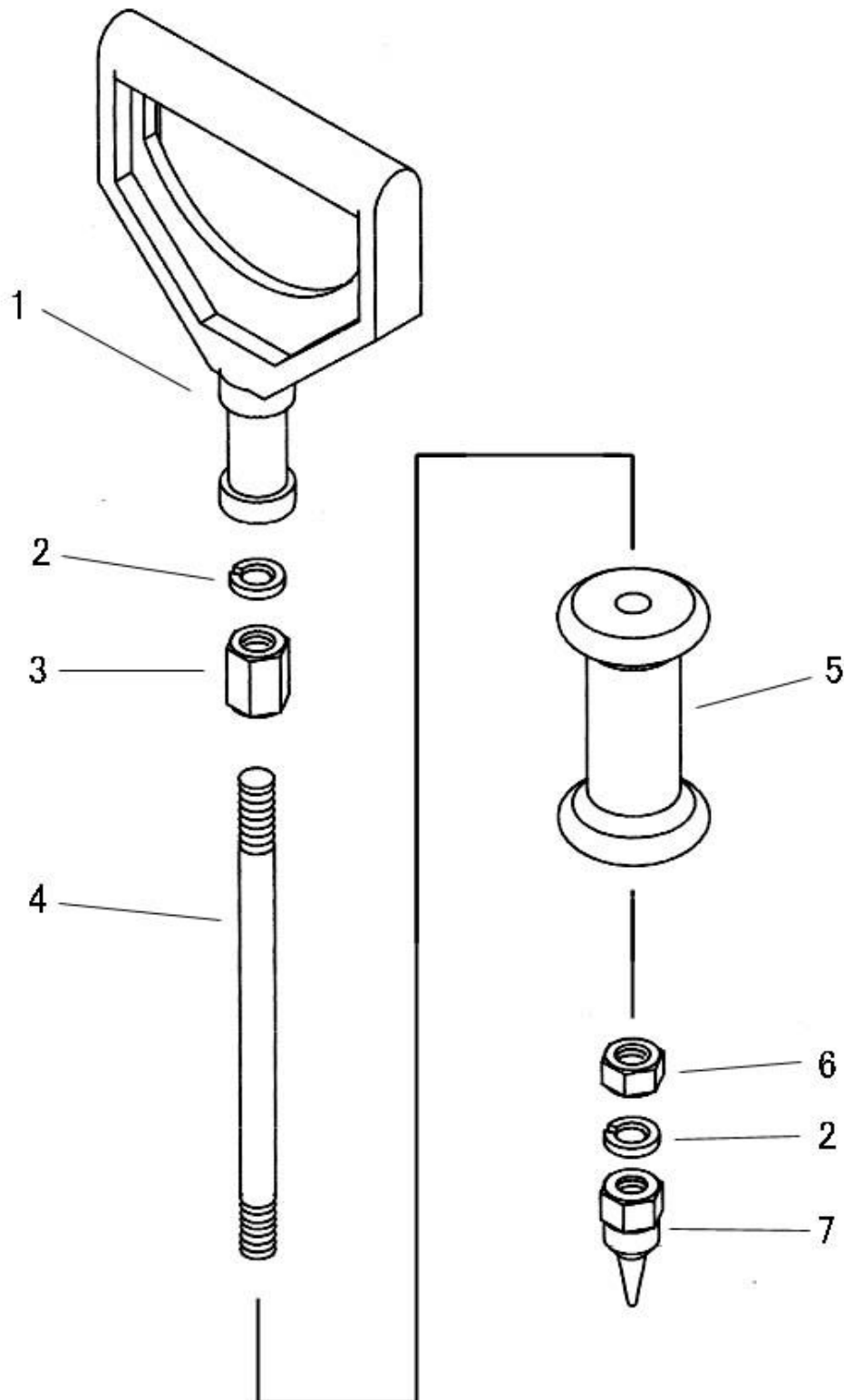
PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MS-P

MIRACLE PET 1/2

ONA-01

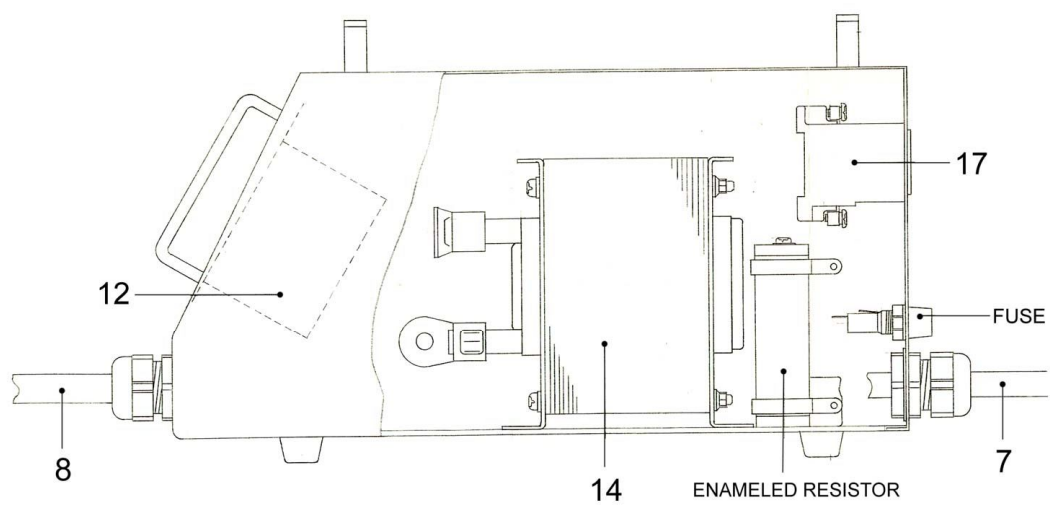
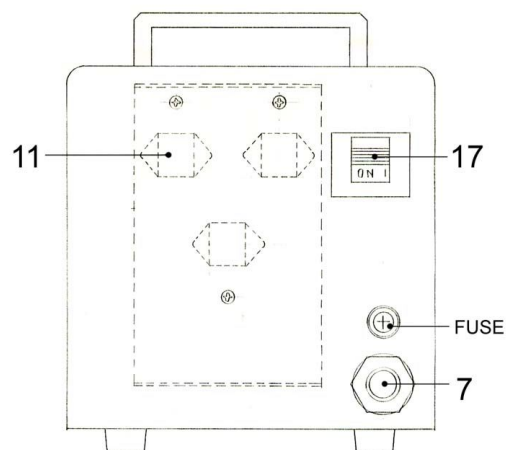
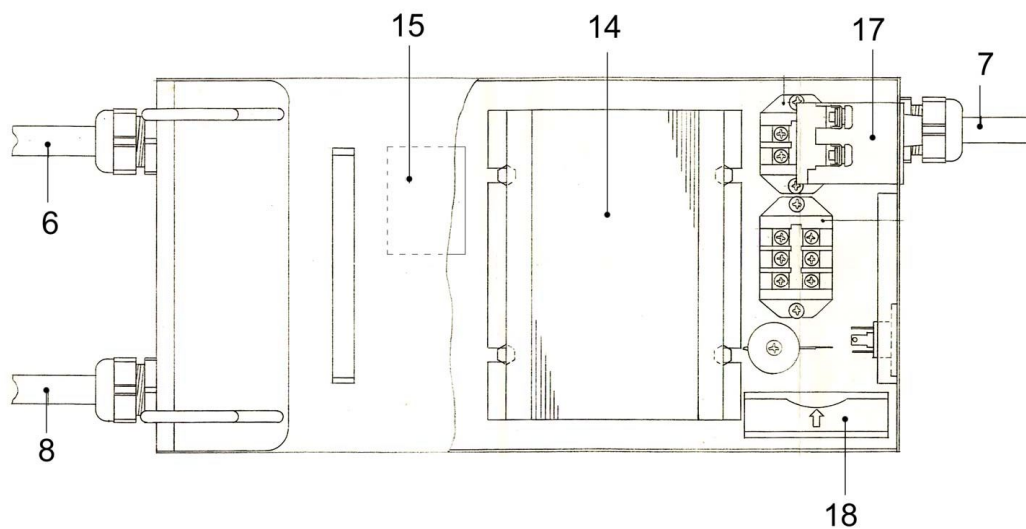


MS-P**MIRACLE PET 2/2****ONA-02, 03, 04**

MS-P**MIRACLE PET**

NO.	CODE	DESCRIPTION	PCS.
ONA-01 HAND TYPE			
1	MS-P-B01	Handle	1
2	MS-P-B08	Spring washer 12mm	2
3	MS-P-B02	Center shaft 100mm	1
4	MS-P-B07	Nut 12mm	2
*5	M-01	Special bit	1
ONA-02 SMALL TYPE			
1	MS-P-B01	Handle	1
2	MS-P-B08	Spring washer 12mm	2
3	MS-P-B06	Stopper	1
4	MS-P-B03	Center shaft 240mm	1
5	MS-P-B09	Weight small	1
6	MS-P-B07	Nut 12mm	1
*7	M-01	Special bit	1
ONA-03 MIDDLE TYPE			
1	MS-P-B01	Handle	1
2	MS-P-B08	Spring washer 12mm	2
3	MS-P-B06	Stopper	1
4	MS-P-B04	Center shaft 310mm	1
5	MS-P-B10	Weight middle	1
6	MS-P-B07	Nut 12mm	1
*7	M-01	Special bit	1
ONA-04 LARGE TYPE			
1	MS-P-B01	Handle	1
2	MS-P-B08	Spring washer 12mm	2
3	MS-P-B06	Stopper	1
4	MS-P-B05	Center shaft 400mm	1
5	MS-P-B11	Weight large	1
6	MS-P-B07	Nut 12mm	1
*7	M-01	Special bit	1

PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MS-7E**MIRACLE STUD 1/1**

MS-7E**MIRACLE STUD**

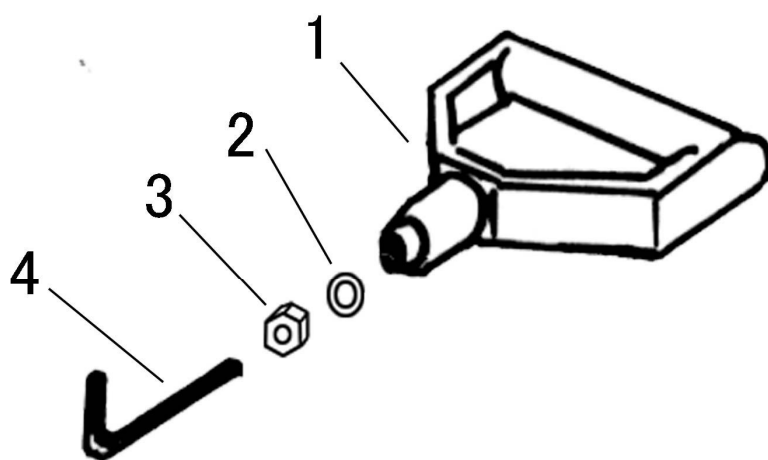
NO.	CODE	DESCRIPTION	PCS.
ACCESSORIES AND PARTS			
*1	MS-U-B11	Washer welding tip	1
*2	MS-U-B12	Point shrinking tip	1
*3	MS-U-B13	Roll patching tip	1
*4	MS-U-B14	Carbon stick	1
*5	MS-U-B15	Spot welding tip	1
*6	MS-E-B10	Output cable with grip 3m 50square	1
*7	MS-7CE-B20	Power cable 7.2m 3core 4square	1
*8	MA-1WC	Earth cable with MA-1 2m 50square	1
*9	MA-1	Magnetic earth clamp	1
*10	MA-1-19	Earth cable 2m 50square	1
11	MS-U-B21	Triac	1
12	MS-U-7PC	P.C.Board	1
13	MS-U-7PW	P.C.Board without face	1
14	MS-E-B30	Transformer L	1
15	MS-E-B31	Transformer S	1
16	MS-E-B32	Varistor	1
17	MS-E-B33	Circuit protector	1
18	MS-E-B34	AC fan	1

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

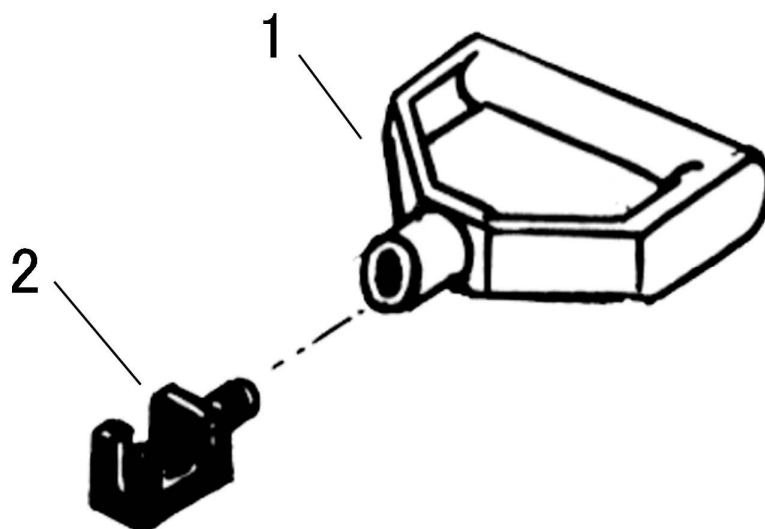
MS-5N

HAND PULLER 1/1

HAND PULLER A



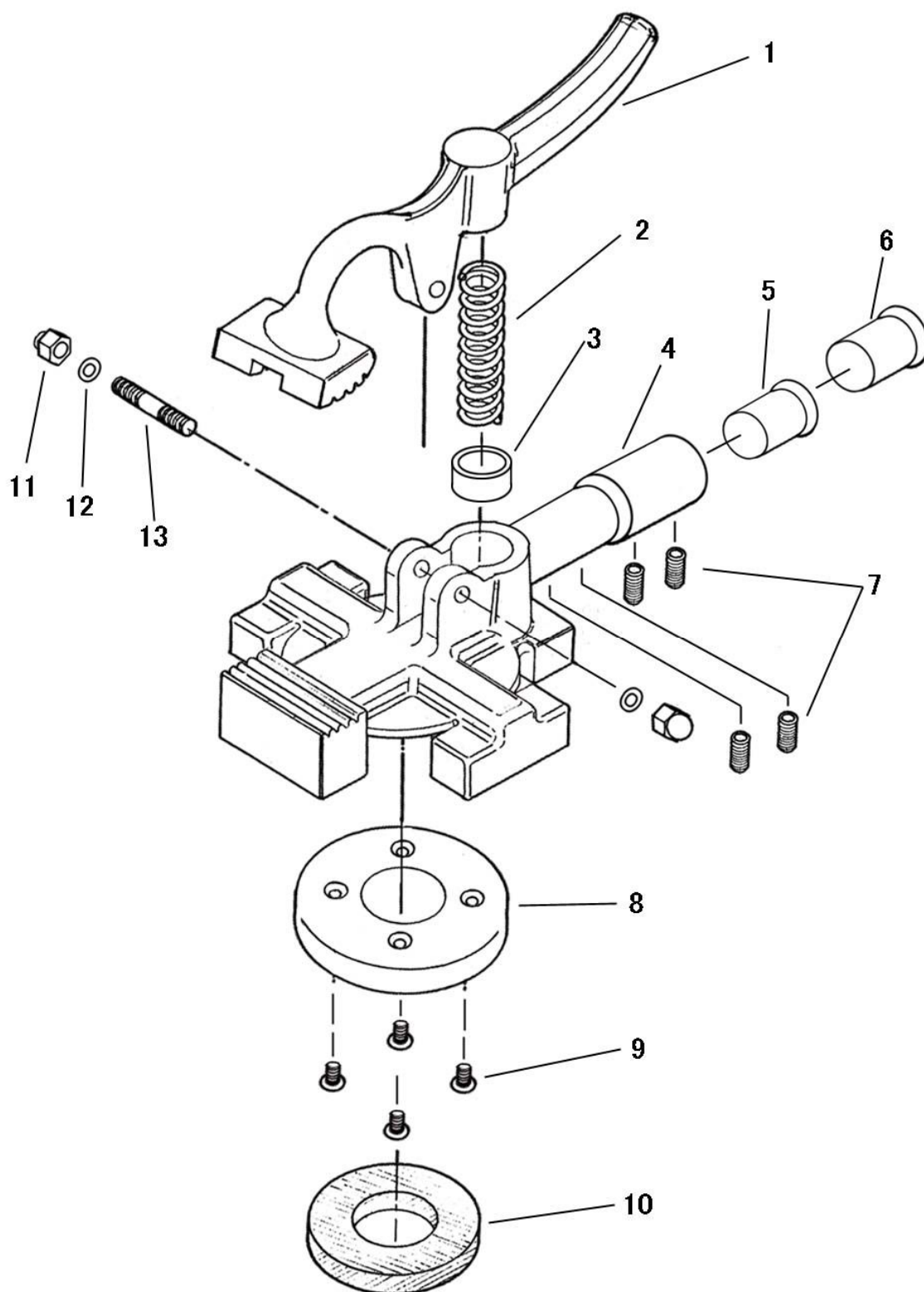
HAND PULLER B



MS-5N**HAND PULLER**

NO.	CODE	DESCRIPTION	PCS.
HAND PULLER A TYPE			
1	HP-01-01	Hand puller A body	1
2	AP-30-09	Spring washer 8mm	1
3	HP-01-03	Nut 8mm	1
4	HP-01-02	Hook	1
HAND PULLER B TYPE			
1	HP-02-00	Hand puller B body	1
2	AP-16-00	Hook	1

PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MA-1**MAGNETIC EARTH CLAMP****1/1**

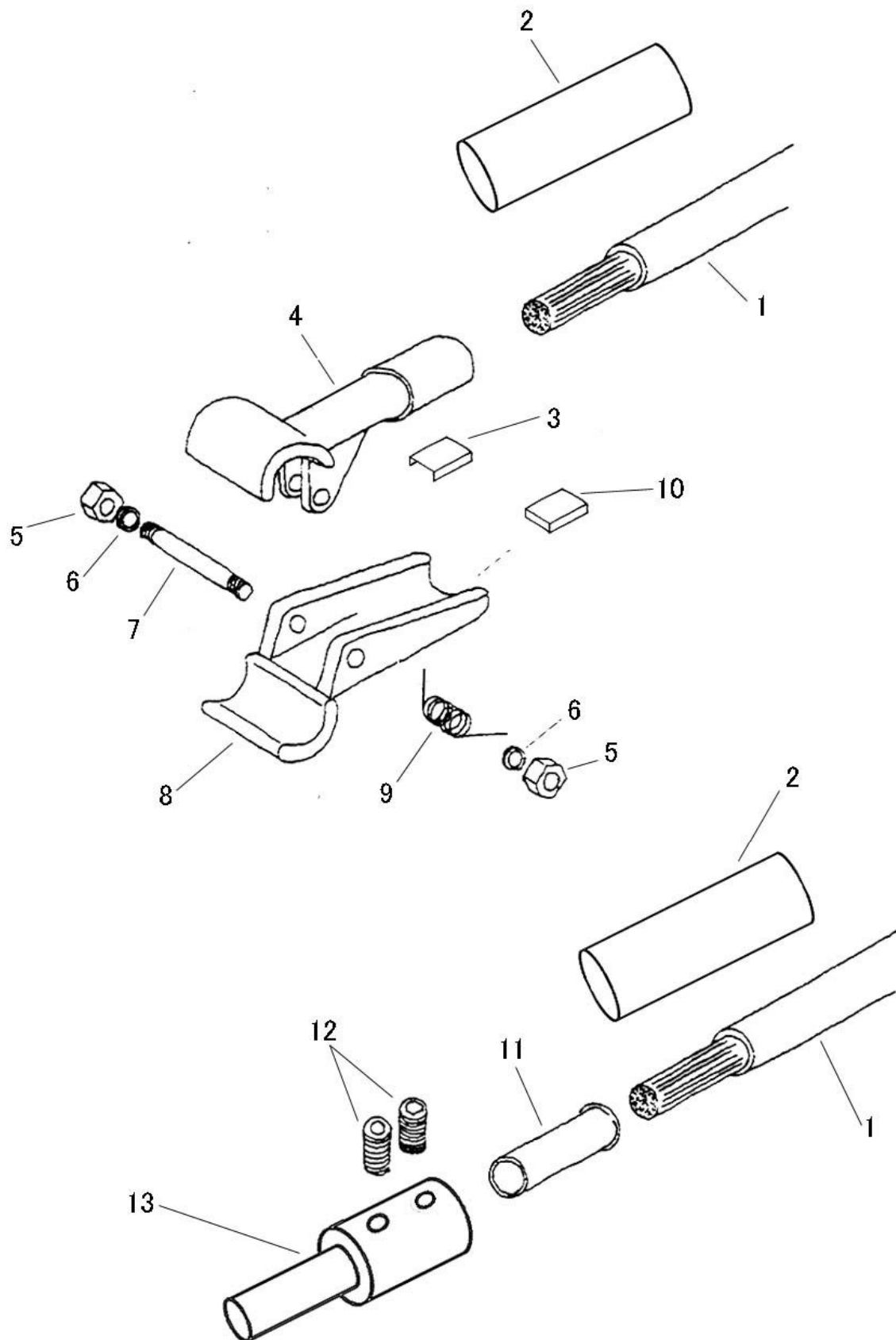
MA-1**MAGNETIC EARTH CLAMP**

NO.	CODE	DESCRIPTION	PCS.
1	MA-1-02	Handle	1
*2	MA-1-1	Spring	1
*3	MA-1-17	Plastic cap	1
4	MA-1-04	Main body	1
*5	MA-1-10	Brass pipe ϕ 12	1
*6	MA-1-12	Brass pipe ϕ 15	1
7	MA-1-5	Screw 8 x 12mm	4
8	MA-1-2	Cap	1
9	MA-1-4	Screw 4 x 12mm	4
10	MA-1-3	Magnet	1
11	MA-1-7	Dome nut 6mm	2
12	MA-1-8	Washer 6mm	2
13	MA-1-9	Brass screw 6 x 37mm	1

PARTS WITH * MARK ARE CUNSUMABLES AND OUT OF GUARANTEE

MS-C2/C3

CONNECTOR 1/1



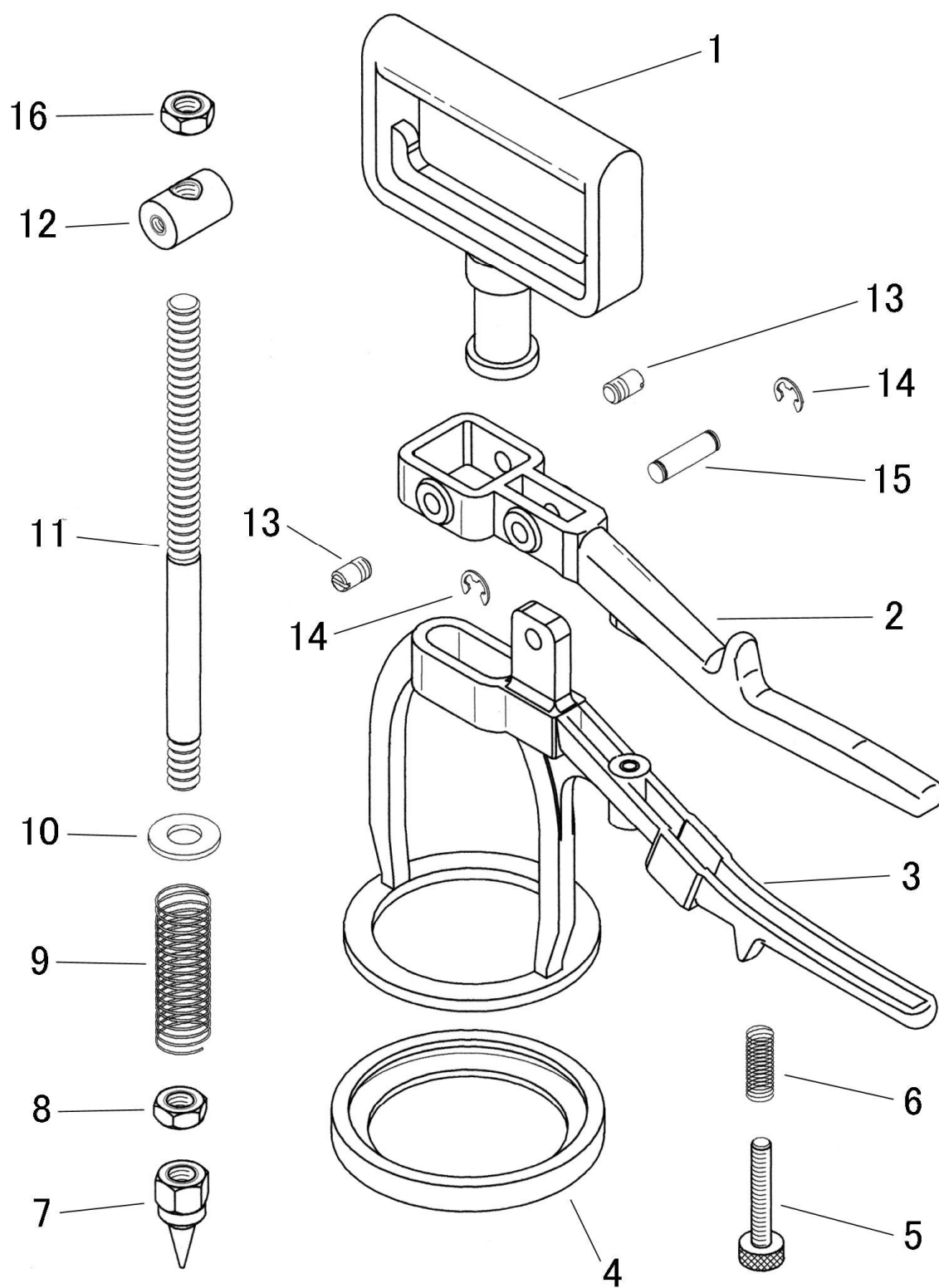
MS-C2/MS-C3**CONNECTOR**

NO.	CODE	DESCRIPTION	PCS.
MS-C2			
1	MS-C-03	Cable 2m 38 square	1
*2	MS-C-02	Tube	2
3	MS-C-11	Ceramic sheet	2
4	MS-C-A	Main clamp	2
5	MA-1-7	Dome nut 6mm	4
6	MA-1-8	Spring washer 6mm	4
7	MS-C-06	Shaft bolt	2
8	MS-C-B	Second clamp	2
*9	MS-C-05	Spring	2
10	MS-C-09	Plate	2
MS-C3			
1	MS-C-03	Cable 2m 38 square	1
*2	MS-C-02	Tube	2
3	MS-C-11	Ceramic sheet	1
4	MS-C-A	Main clamp	1
5	MA-1-7	Dome nut 6mm	2
6	MA-1-8	Spring washer 6mm	2
7	MS-C-06	Shaft bolt	1
8	MS-C-B	Second clamp	1
*9	MS-C-05	Spring	1
10	MS-C-09	Plate	1
11	MA-1-10	Brass pipe	1
12	MA-1-5	Screw	2
13	MS-C-10	Plug	1

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-Z2-C

EASY PULLER 2 1/1



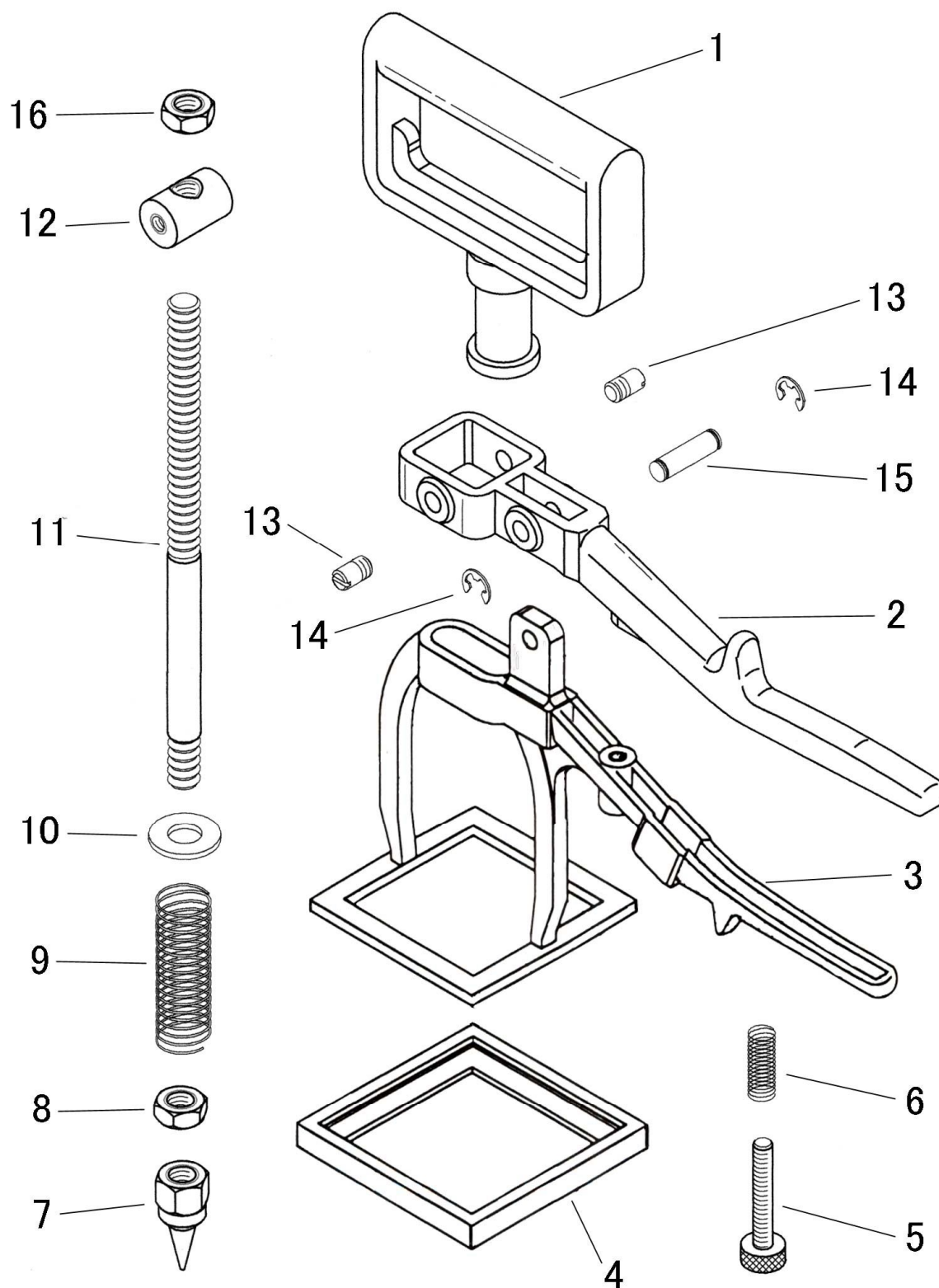
MS-Z2-C**EASY PULLER 2**

NO.	CODE	DESCRIPTION	PCS.
1	M2-C-13	Handle	1
2	MZ-B-2	Second lever	1
3	MZ-B-3C	Main lever circle L	1
*4	MZ-B-4C	Rubber pad circle L	1
5	MZ-B-5	Adjusting screw	1
*6	M2-R-10	Spring A	1
*7	M-01	Special bit	1
8	MZ-B-8	Nut 12mm	1
*9	MZ-B-9	Spring B	1
10	MZ-B-10	Spring sheet S	1
11	MZ-B-11	Center shaft	1
12	MZ-B-12	Center screw	1
13	MZ-B-13	Screw 14mm	2
14	MZ-B-14	E ring	2
15	MZ-B-15	Shaft	1
16	M2-R-02	Nut 12mm	1

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-Z2-D

EASY PULLER 2 1/1



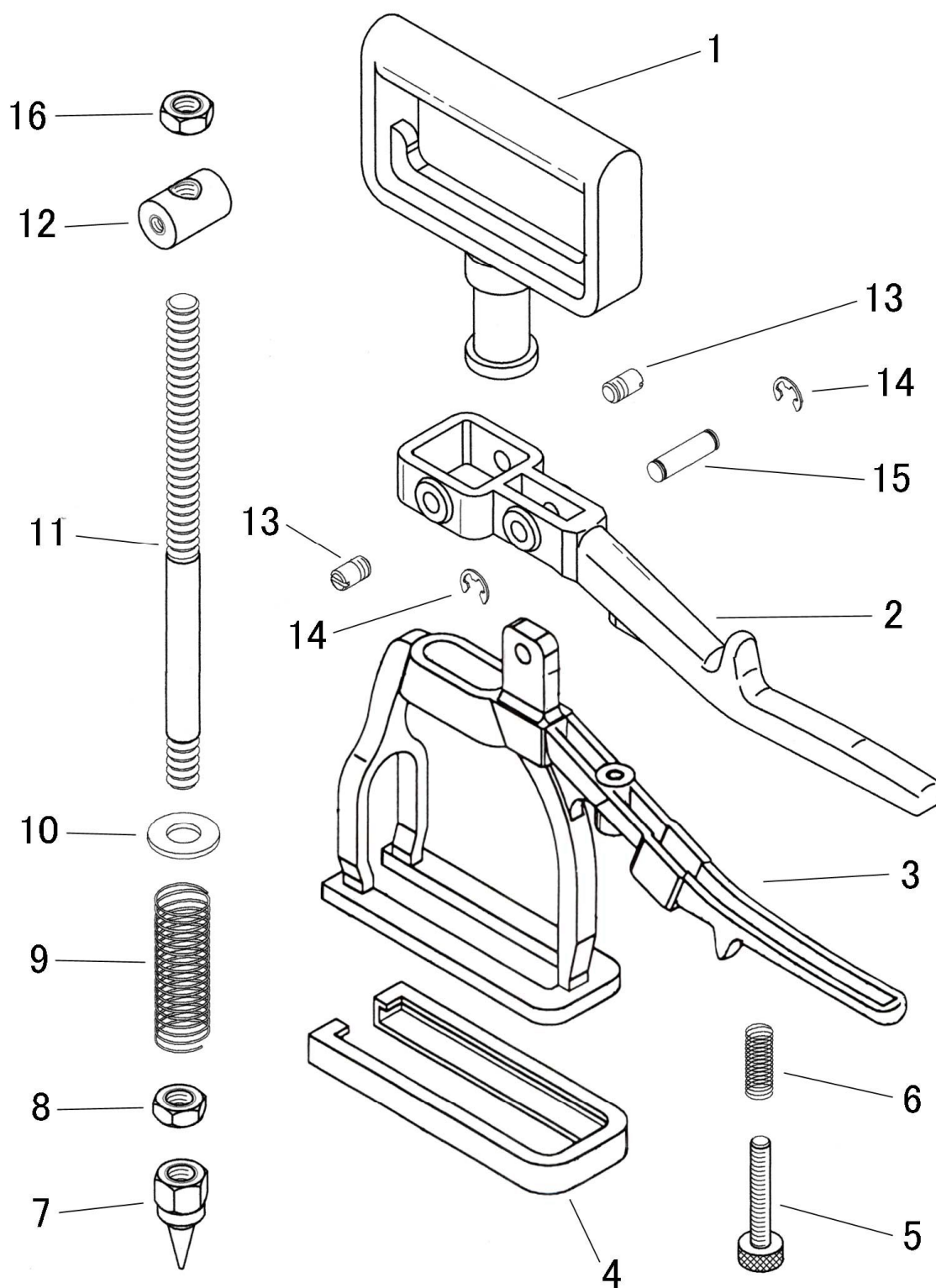
MS-Z2-D**EASY PULLER 2**

NO.	CODE	DESCRIPTION	PCS.
1	M2-C-13	Handle	1
2	MZ-B-2	Second lever	1
3	MZ-B-3D	Main lever square	1
*4	MZ-B-4D	Rubber pad square	1
5	MZ-B-5	Adjusting screw	1
*6	M2-R-10	Spring A	1
*7	M-01	Special bit	1
8	MZ-B-8	Nut 12mm	1
*9	MZ-B-9	Spring B	1
10	MZ-B-10	Spring sheet S	1
11	MZ-B-11	Center shaft	1
12	MZ-B-12	Center screw	1
13	MZ-B-13	Screw 14mm	2
14	MZ-B-14	E ring	2
15	MZ-B-15	Shaft	1
16	M2-R-02	Nut 12mm	1

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-Z2-E

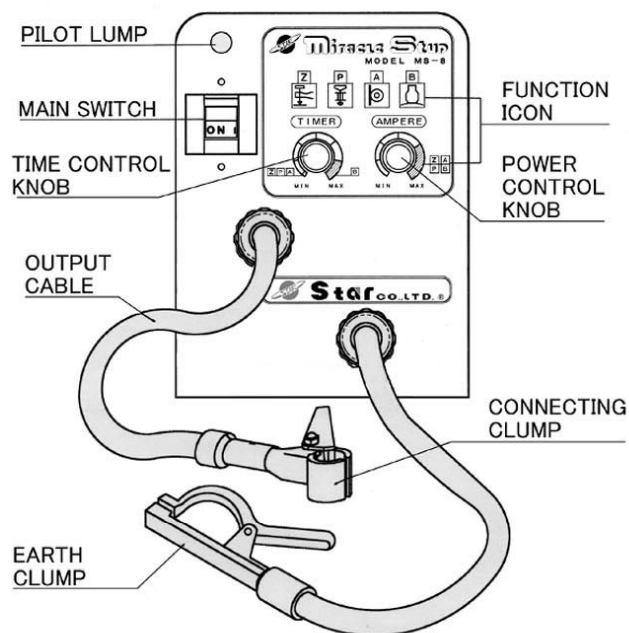
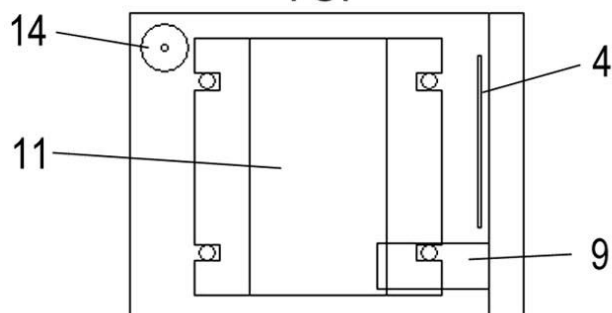
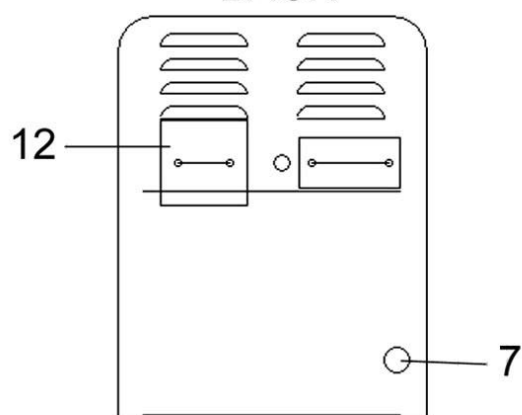
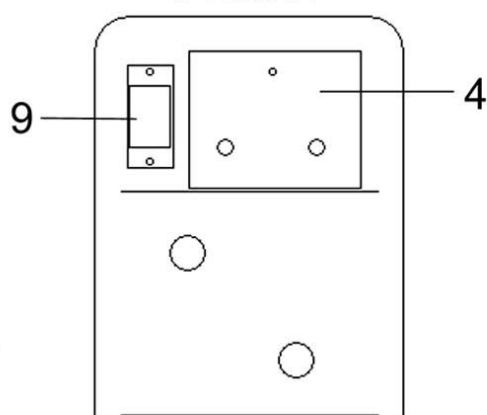
EASY PULLER 2 1/1



MS-Z2-E**EASY PULLER 2**

NO.	CODE	DESCRIPTION	PCS.
1	M2-C-13	Handle	1
2	MZ-B-2	Second lever	1
3	MZ-B-3E	Main lever straight	1
*4	MZ-B-4E	Rubber pad straight	1
5	MZ-B-5	Adjusting screw	1
*6	M2-R-10	Spring A	1
*7	M-01	Special bit	1
8	MZ-B-8	Nut 12mm	1
*9	MZ-B-9	Spring B	1
10	MZ-B-10	Spring sheet S	1
11	MZ-B-11	Center shaft	1
12	MZ-B-12	Center screw	1
13	MZ-B-13	Screw 14mm	2
14	MZ-B-14	E ring	2
15	MZ-B-15	Shaft	1
16	M2-R-02	Nut 12mm	1

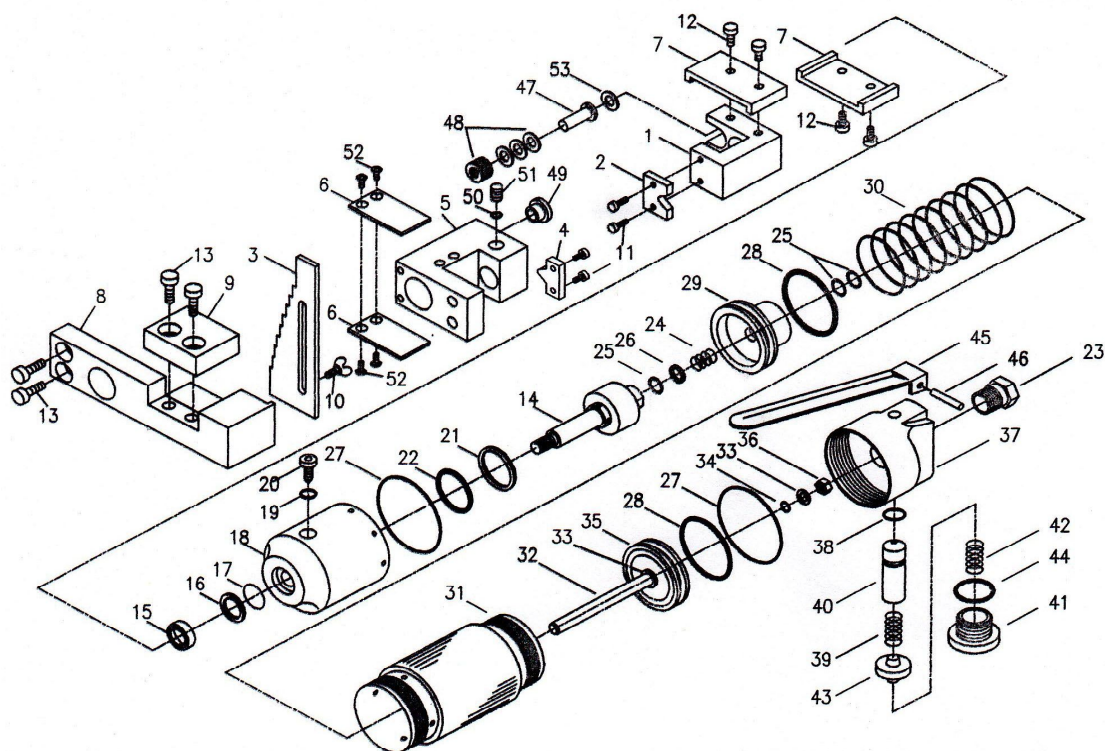
PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-8J**MIRACLE STUD 1/1****TOP****BACK****FRONT**

MS-8J**MIRACLE STUD**

NO.	CODE	DESCRIPTION	PCS.
ACCESSORIES AND PARTS			
*1	MS-U-B11	Washer welding tip	1
*2	MS-U-B12	Point shrinking tip	1
3	MS-J-B05	Welding grip	1
4	MS-J-B19	P.C.Board	1
*5	MS-C-03	Earth cable 2m 38square	1
*6	MS-J-B09	Output cable 3m 38square for grip	1
*7	MS-8CE-B20	Power cable 7m 3core 2.5square	1
*8	MS-C-1	Connecting clamp	1
9	MS-J-B02	Circuit protector	1
10	MA-2	Earth clamp	1
11	MS-J-B01	Transformer	1
12	MS-U-B21	Triac	1
13	MS-J-B03	Varistor	1
14	MS-J-B04	Enameled resistor	1
15	MS-J-B06	Volume	2

PARTS WITH * MARK ARE CONSUMABLES AND OUT OF GUARANTEE

MS-BK1**BIT CUTTER**

MS-BK1**BIT CUTTER**

No.	Code	Description	Q'TY
1	06901	Punching Die Bed	1
2	06902	Punching Die	1
3	06903	Adjustable Guide	1
4	06904	Punch	1
5	06905	Punching Die Bed	1
6	06906	Cover	2
7	06907	Guide	2
8	06908A	Saddle	1
9	06908B	Plate	1
10	06909	M4x0.7x8L Screw	1
11	06910	M3x0.5x10L	4
12	06911	M4x0.7x8L	4
13	06912	M5x0.8x12L	4
14	83701B	Piston	1
15	83702	Packing	1
16	83703	Back-Up Ring	1
17	83704	"O" Ring	1
18	83705	Cylinder	1
19	83706	"O" Ring	1
20	83707	Oil Plug	1
21	83708	Back-Up Ring	1
22	83709	"O" Ring	1
23	83710	Air Inlet	1
24	83711	Spring	1
25	83712	"O" Ring	3
26	83713	Back-Up Ring	1
27	83714	"O" Ring	2
28	83715	"O" Ring	2
29	83716	Piston	1
30	83717	Spring	1
31	83718	Cylinder	1
32	83719	Piston Rod	1
33	83720	Washer	2
34	83721	"O" Ring	1
35	83722	Piston	1
36	83723	Lock Nut	1
37	83724	Air Valve Body	1
38	83725	"O" Ring	1
39	83726	Spring	1
40	83727	Air Valve	1
41	83728	Plug	1
42	83729	Spring	1
43	83730	Valve Cover	1
44	83731	"O" Ring	1

MS-BK1**BIT CUTTER**

No.	Code	Description	Q'TY
45	83732	Trigger	1
46	83733	Pin	1
47	83734B	Punch	1
48	83735B	Spring Washer	12
49	83737B	Guide Sleeve	1
50	83741	Packing	1
51	83742	Screw	1
52	83743	Screw	4
53	83744B	Washer	1