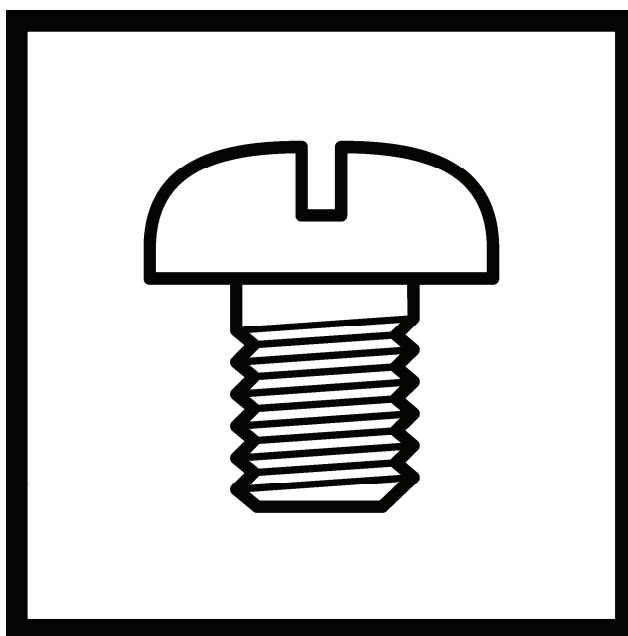


# KE-430HX KE-430HS BE-438HX BE-438HS

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直接驱动式电脑平缝打结机  
直接驱动式电脑平缝钉扣机

ELECTRONIC DIRECT DRIVE LOCKSTITCH BAR TACKER  
ELECTRONIC DIRECT DRIVE LOCKSTITCH BUTTON SEWER



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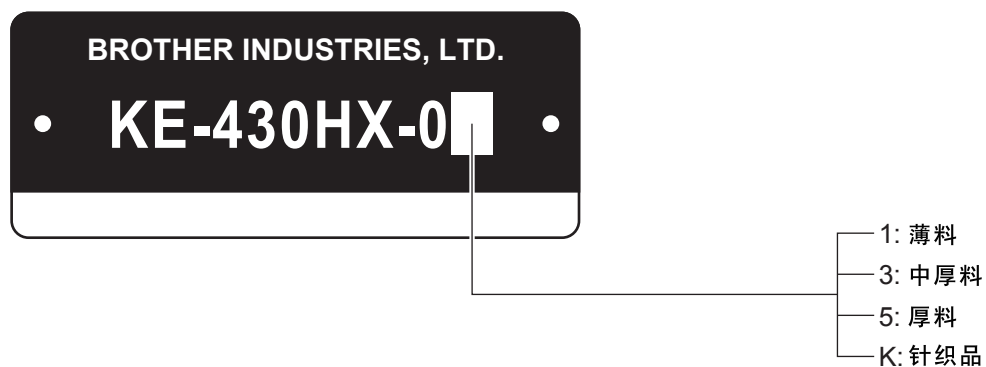
**brother**

最新的零部件情报请参考(Parts Navigation)。  
The latest parts information, refer to the Parts Navigation.

<http://partsbook.brother.co.jp/partsnavi/chn/>  
<http://partsbook.brother.co.jp/partsnavi/eng/>

## 型号牌的读解法

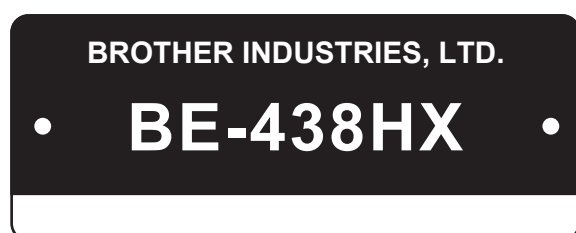
直接驱动式电脑平缝打结机



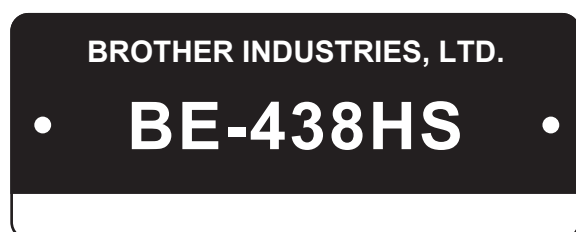
直接驱动式电脑平缝打结机（微量润滑规格）



直接驱动式电脑平缝钉扣机



直接驱动式电脑平缝钉扣机（微量润滑规格）



## Description of model plate

### ELECTRONIC DIRECT DRIVE LOCKSTITCH BAR TACKER



- 1: Light-weight materials
- 3: Medium-weight materials
- 5: Heavy-weight materials
- K: Knitted materials

### ELECTRONIC DIRECT DRIVE LOCKSTITCH BAR TACKER(Minimum lubrication type)

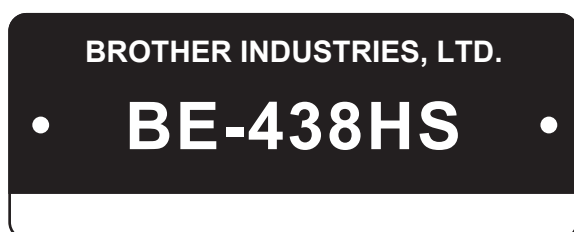


- 3: Medium-weight materials
- 5: Heavy-weight materials

### ELECTRONIC DIRECT DRIVE LOCKSTITCH BUTTON SEWER



### ELECTRONIC DIRECT DRIVE LOCKSTITCH BUTTON SEWER(Minimum lubrication type)



# 零件手册的使用说明

1. 本手册是根据截止至2017年9月的资料为基准而编制的。
2. 零部件设计若有变动，恕不另行通知。
3. 以组件为单位供应的零部件是用虚线框出。
4. 零件图册中数字(REF.NO)右上角带有“+”号的零件属多规格零件，详细请见零件清单。

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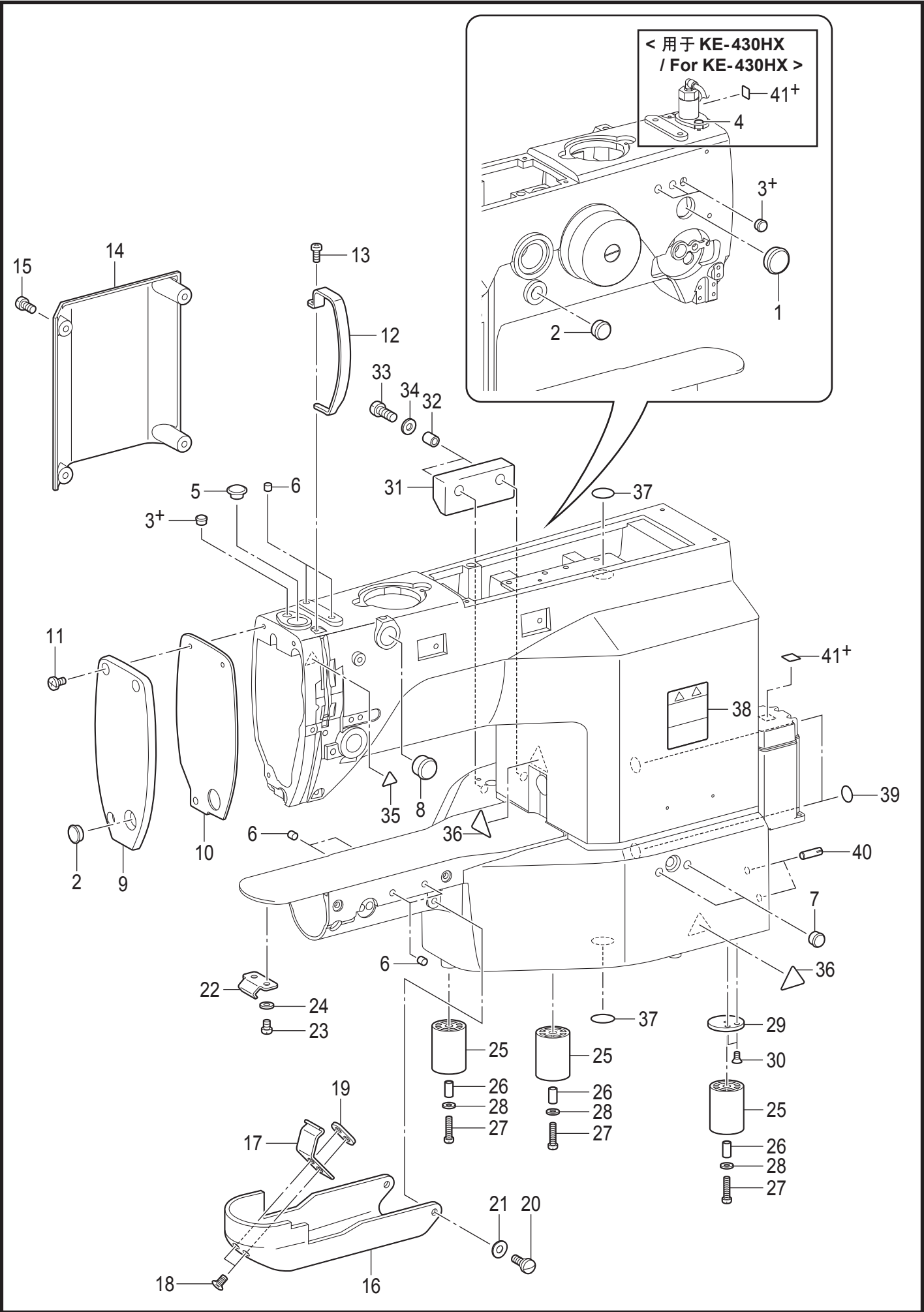
## Notes for using this parts book

1. This book was prepared based on information available in September 2017.
2. Parts are subject to changes in design without prior notice.
3. Parts supplied as complete assemblies are circled by a dotted line.
4. The part which has the symbol "+" on its number (REF.NO) in the figure differs depending on the specification. For details, refer to the parts list.

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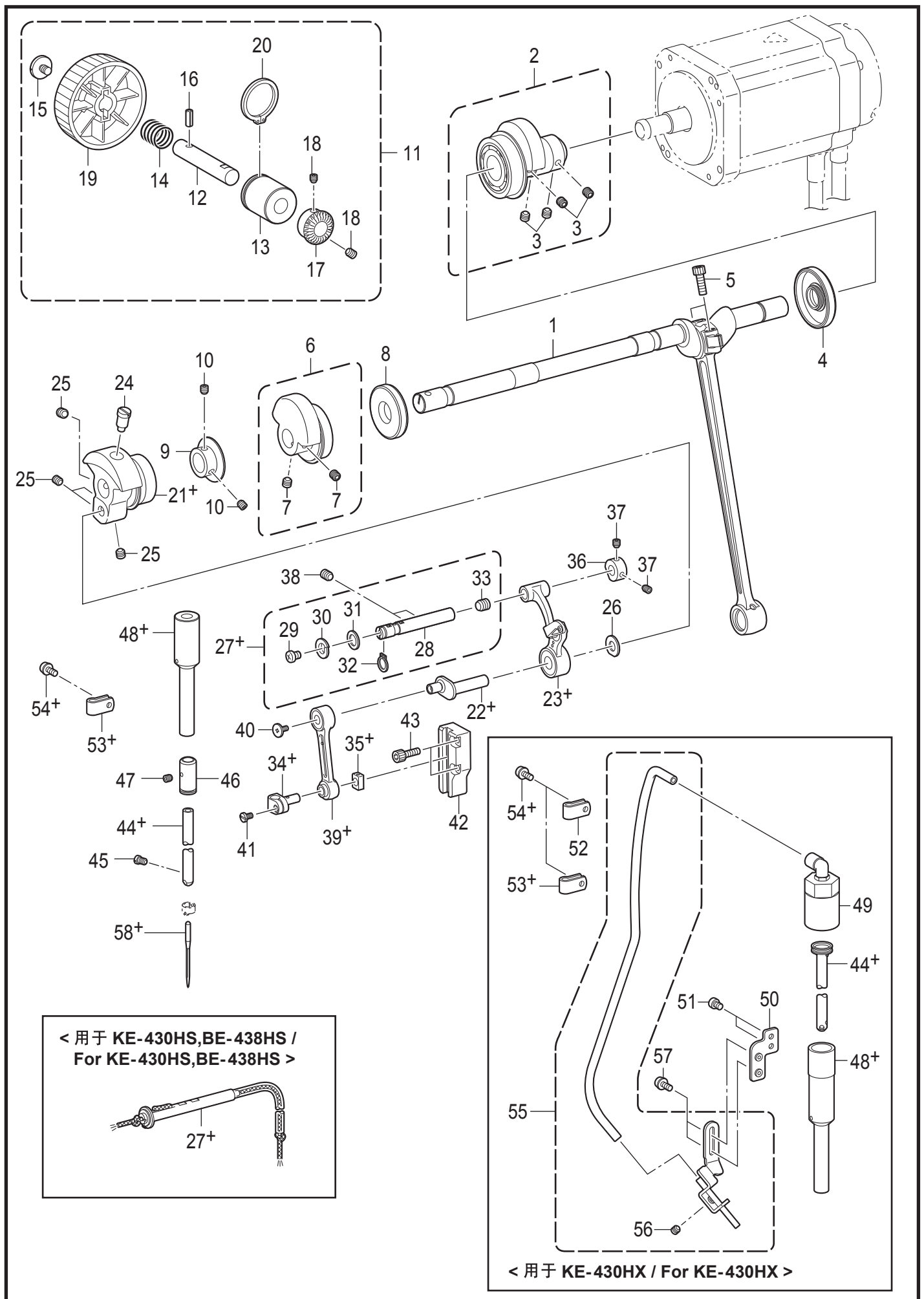
A. 机体部分 / Machine body



# A. 机体部分 / Machine body

| 参照号 | 零部件序号     | 数量 | 零部件名称                                                                | NAME OF PARTS                                                                        | RM |
|-----|-----------|----|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|----|
| 1   | SB0788001 | 1  | 橡皮塞 23                                                               | RUBBER CAP 23                                                                        |    |
| 2   | 117934001 | 2  | 橡皮塞 13.5<br><用于KE-430HX>                                             | RUBBER CAP, 13.5<br><For KE-430HX>                                                   |    |
| 3+  | S32263001 | 3  | 橡皮塞 8.5                                                              | RUBBER CAP, 8.5                                                                      |    |
| 4   | SB7739001 | 1  | 橡皮塞 8.5<br><用于KE-430HS><br><用于BE-438HX, BE-438HS>                    | RUBBER CAP 8.5<br><For KE-430HS><br><For BE-438HX, BE-438HS>                         |    |
| 3+  | S32263001 | 4  | 橡皮塞 8.5                                                              | RUBBER CAP, 8.5                                                                      |    |
| 5   | SB6811001 | 1  | 橡皮塞 8.9                                                              | RUBBER CAP 8.9                                                                       |    |
| 6   | S20878000 | 6  | 橡皮塞 5.3                                                              | RUBBER CAP, 5.3                                                                      |    |
| 7   | S32263001 | 2  | 橡皮塞 8.5                                                              | RUBBER CAP, 8.5                                                                      |    |
| 8   | S23337001 | 1  | 橡皮塞 18.5                                                             | RUBBER CAP, 18.5                                                                     |    |
| 9   | SB6697001 | 1  | 面板                                                                   | FACE PLATE                                                                           |    |
| 10  | SB6697    | 1  | 面板垫片                                                                 | FACE PLATE PACKING                                                                   |    |
| 11  | 062500816 | 3  | 螺钉 M5X8                                                              | SCREW PAN M5X8                                                                       |    |
| 12  | SB1277001 | 1  | 挑线杆防护罩                                                               | THREAD TAKE-UP LEVER COVER                                                           |    |
| 13  | 062401016 | 1  | 螺钉 M4X10                                                             | SCREW PAN M4X10                                                                      |    |
| 14  | SB6697001 | 1  | 侧盖                                                                   | SIDE COVER                                                                           |    |
| 15  | 062501216 | 4  | 螺钉 M5X12                                                             | SCREW PAN M5X12                                                                      |    |
| 16  | SA3262202 | 1  | 大旋梭盖                                                                 | SHUTTLE RACE COVER                                                                   |    |
| 17  | SA3263101 | 1  | 大旋梭盖钩 D                                                              | SHUTTLE RACE COVER HOOK D                                                            |    |
| 18  | 004300513 | 2  | 螺钉 M3X5                                                              | SCREW, FLAT M3X5                                                                     |    |
| 19  | SA3264101 | 1  | 板螺母                                                                  | NUT PLATE                                                                            |    |
| 20  | SA3265101 | 2  | 轴位螺钉 8-2                                                             | SHOULDER SCREW 8-2                                                                   |    |
| 21  | 109239002 | 2  | 弹簧垫圈                                                                 | WASHER, WAVE SPRING                                                                  |    |
| 22  | SA3266201 | 1  | 大旋梭盖钩 U                                                              | SHUTTLE RACE COVER HOOK U                                                            |    |
| 23  | 062300416 | 2  | 螺钉 M3X4                                                              | SCREW PAN M3X4                                                                       |    |
| 24  | SB3847001 | 2  | 平垫圈 M3                                                               | WASHER_PLAIN_M_3                                                                     |    |
| 25  | SB4504001 | 3  | 缓冲橡皮垫 H                                                              | RUBBER CUSHION H                                                                     |    |
| 26  | SA8680101 | 3  | 管套                                                                   | SPACER                                                                               |    |
| 27  | 062402016 | 3  | 螺钉 M4X20                                                             | SCREW PAN M4X20                                                                      |    |
| 28  | 025040136 | 3  | 平垫圈 S4                                                               | WASHER PLAIN S 4                                                                     |    |
| 29  | SB1169101 | 1  | 缓冲垫座片                                                                | CUSHION PLATE                                                                        |    |
| 30  | S25310101 | 2  | 螺钉 M4                                                                | SCREW, FLAT M4                                                                       |    |
| 31  | SB7918001 | 1  | 机头枕垫                                                                 | HEAD REST                                                                            |    |
| 32  | SB0984101 | 2  | 管套                                                                   | COLLAR                                                                               |    |
| 33  | 018062036 | 2  | 螺栓 M6X20                                                             | BOLT SOCKET M6X20                                                                    |    |
| 34  | 025060236 | 2  | 平垫圈 M6                                                               | WASHER PLAIN M 6                                                                     |    |
| 35  | SA9957001 | 1  | 警告标记                                                                 | INJURY MARK                                                                          |    |
| 36  | SA9957002 | 2  | 警告标记                                                                 | INJURY MARK                                                                          |    |
| 37  | SB3421001 | 2  | 注意标签 23                                                              | MARK ATTENTION 23                                                                    |    |
| 38  | SA9826001 | 1  | 操作注意标签                                                               | LABEL CAUTION                                                                        |    |
| 39  | S37060001 | 2  | 接地标记                                                                 | LABEL GROUNDING                                                                      |    |
| 40  | 118550001 | 2  | 带槽销                                                                  | PIN DOWEL                                                                            |    |
| 41+ | SB7911001 | 2  | <用于KE-430HX><br>注意符号 15X15<br><用于KE-430HS><br><用于BE-438HX, BE-438HS> | <For KE-430HX><br>MARK ATTENTION 15X15<br><For KE-430HS><br><For BE-438HX, BE-438HS> |    |
| 41+ | SB7911001 | 1  | 注意符号 15X15                                                           | MARK ATTENTION 15X15                                                                 |    |

## B. 上轴和针杆装置 / Upper shaft and needle bar mechanism

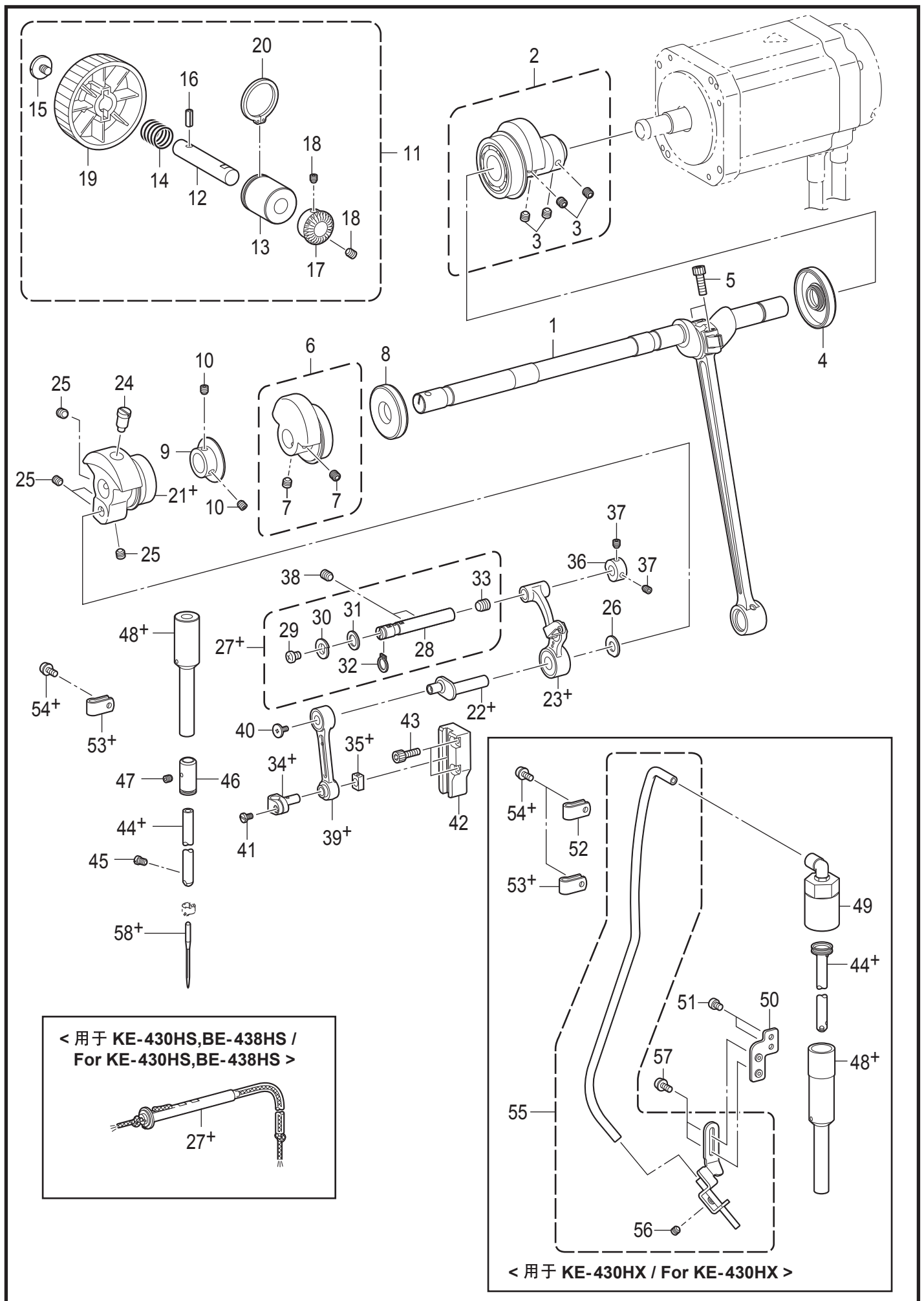


# B. 上轴和针杆装置 / Upper shaft and needle bar mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS                  | RM |
|-----|-----------|----|-----------------------|--------------------------------|----|
| 1   | SB7621001 | 1  | 曲柄连杆复合件               | CRANK ROD SET                  |    |
| 2   | SB7466001 | 1  | 接头组件                  | JOINT ASSY                     |    |
| 3   | S23651001 | 4  | 固定螺钉 M6X6             | SET SCREW SOCKET (FT) M6X6     |    |
| 4   | SB7463001 | 1  | 油封                    | OIL SEAL SC15-47-7             |    |
| 5   | 018501636 | 2  | 螺栓 M5X16              | BOLT SOCKET M5X16              |    |
| 6   | SB6832001 | 1  | 轴承套M组件                | BALL BEARING BUSH M ASSY       |    |
| 7   | S23651001 | 2  | 固定螺钉 M6X6             | SET SCREW SOCKET (FT) M6X6     |    |
| 8   | SB7464001 | 1  | 油封                    | OIL SEAL SC15-42-7             |    |
| 9   | SB7135001 | 1  | 齿轮 R                  | PULLEY GEAR R                  |    |
| 10  | 012500536 | 2  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5     |    |
| 11  | SB7484001 | 1  | 手轮轴组件                 | PULLEY SHAFT ASSY              |    |
| 12  | SB1037101 | 1  | 手轮组件                  | PULLEY SHAFT                   |    |
| 13  | SB1038001 | 1  | 手轮套                   | PULLEY BUSH                    |    |
| 14  | SB1041001 | 1  | 手轮弹簧                  | PULLEY SPRING                  |    |
| 15  | SB1040002 | 1  | 手轮螺钉                  | SCREW                          |    |
| 16  | 047402042 | 1  | 弹簧销 AW                | PIN SPRING ROLL AW4            |    |
| 17  | SB7134001 | 1  | 齿轮 L                  | PULLEY GEAR L                  |    |
| 18  | 012500536 | 2  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5     |    |
| 19  | SB0910201 | 1  | 手轮                    | PULLEY                         |    |
| 20  | 048280142 | 1  | 轴用挡圈 C28              | RETAINING RING EXTERNAL C28    |    |
|     |           |    | <用于KE-430HX-3、-5、-K>  | <For KE-430HX-3,-5,-K>         |    |
|     |           |    | <用于KE-430HS>          | <For KE-430HS>                 |    |
| 21+ | SB6713001 | 1  | 挑线曲柄组件                | THREAD TAKE-UP CRANK ASSY      |    |
| 22+ | SB6718001 | 1  | 针杆曲柄                  | NEEDLE BAR CRANK               |    |
| 23+ | SB6721001 | 1  | 挑线杆组件                 | THREAD TAKE-UP LEVER ASSY      |    |
|     |           |    | <用于KE-430HX-1>        | <For KE-430HX-1>               |    |
| 21+ | SB6711001 | 1  | 挑线曲柄U组件               | THREAD TAKE-UP CRANK U ASSY    |    |
| 22+ | SB6717001 | 1  | 针杆曲柄 U                | NEEDLE BAR CRANK U             |    |
| 23+ | SB6720001 | 1  | 挑线杆U组件                | THREAD TAKE-UP LEVER U ASSY    |    |
|     |           |    | <用于BE-438HX、BE-438HS> | <For BE-438HX, BE-438HS>       |    |
| 21+ | SB6715001 | 1  | 挑线曲柄B组件               | THREAD TAKE-UP CRANK B ASSY    |    |
| 22+ | SB1018301 | 1  | 针杆曲柄 B                | NEEDLE BAR CRANK B             |    |
| 23+ | SB6722001 | 1  | 挑线杆B组件                | THREAD TAKE-UP LEVER B ASSY    |    |
| 24  | S25235001 | 1  | 螺钉 M8                 | SCREW M8                       |    |
| 25  | S23651001 | 4  | 固定螺钉 M6X6             | SET SCREW SOCKET (FT) M6X6     |    |
| 26  | 110367001 | 1  | 垫圈 8                  | WASHER, PLAIN SPECIAL 8        |    |
|     |           |    | <用于KE-430HX、BE-438HX> | <For KE-430HX, BE-438HX>       |    |
| 27+ | SB6729101 | 1  | 挑线杆支撑轴D组件             | THREAD TAKE-UP S-SHAFT D ASSY  |    |
| 28  | SB6730001 | 1  | 挑线杆支撑轴 D              | THREAD TAKE-UP SUPPORT SHAFT D |    |
| 29  | 062500616 | 1  | 螺钉 M5X6               | SCREW PAN M5X6                 |    |
| 30  | 028050246 | 1  | 弹簧垫圈 2-5              | WASHER SPRING 2-5              |    |
| 31  | SB6734001 | 1  | 轴向垫圈 9                | THRUST WASHER 9                |    |
| 32  | 048090142 | 1  | 轴用挡圈 C9               | RETAINING RING EXTERNAL C9     |    |
| 33  | 012500536 | 1  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5     |    |
| 34+ | SA9650101 | 1  | 针杆接头                  | NEEDLE BAR CLAMP               |    |
| 35+ | SB6736001 | 1  | 滑块                    | SLIDE BLOCK                    |    |
|     |           |    | <用于KE-430HS、BE-438HS> | <For KE-430HS, BE-438HS>       |    |
| 27+ | SB6732001 | 1  | 挑线杆支撑轴S组件             | THREAD TAKE-UP S-SHAFT S ASSY  |    |
| 34+ | SB4789001 | 1  | 针杆接头组件                | NEEDLE BAR CLAMP ASSY          |    |
| 35+ | 102630001 | 1  | 针杆接头滑块                | NEEDLE BAR GUIDE SLIDE BLOCK   |    |
| 36  | SB6735001 | 1  | 紧圈                    | SET SCREW COLLAR               |    |
| 37  | 012500536 | 2  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5     |    |
| 38  | 012060636 | 2  | 螺钉 M6X6               | SET SCREW SOCKET (FT) M6X6     |    |
|     |           |    | <用于KE-430HX、KE-430HS> | <For KE-430HX, KE-430HS>       |    |
| 39+ | SB6726001 | 1  | 针杆连杆组件                | NEEDLE BAR CONNECTING ROD ASSY |    |
|     |           |    | <用于BE-438HX、BE-438HS> | <For BE-438HX, BE-438HS>       |    |
| 39+ | SB1034101 | 1  | 针杆连杆组件                | NEEDLE BAR CONNECTING ROD ASSY |    |
| 40  | SA2422001 | 1  | 螺钉 SM3.57-40X6L       | SCREW, SM3.57L                 |    |
| 41  | 140004001 | 1  | 螺钉 SM3.57-40X7        | SCREW, SM3.57-40X7             |    |

KE-430HX, 430HS/BE-438HX, 438HS-123

## B. 上轴和针杆装置 / Upper shaft and needle bar mechanism

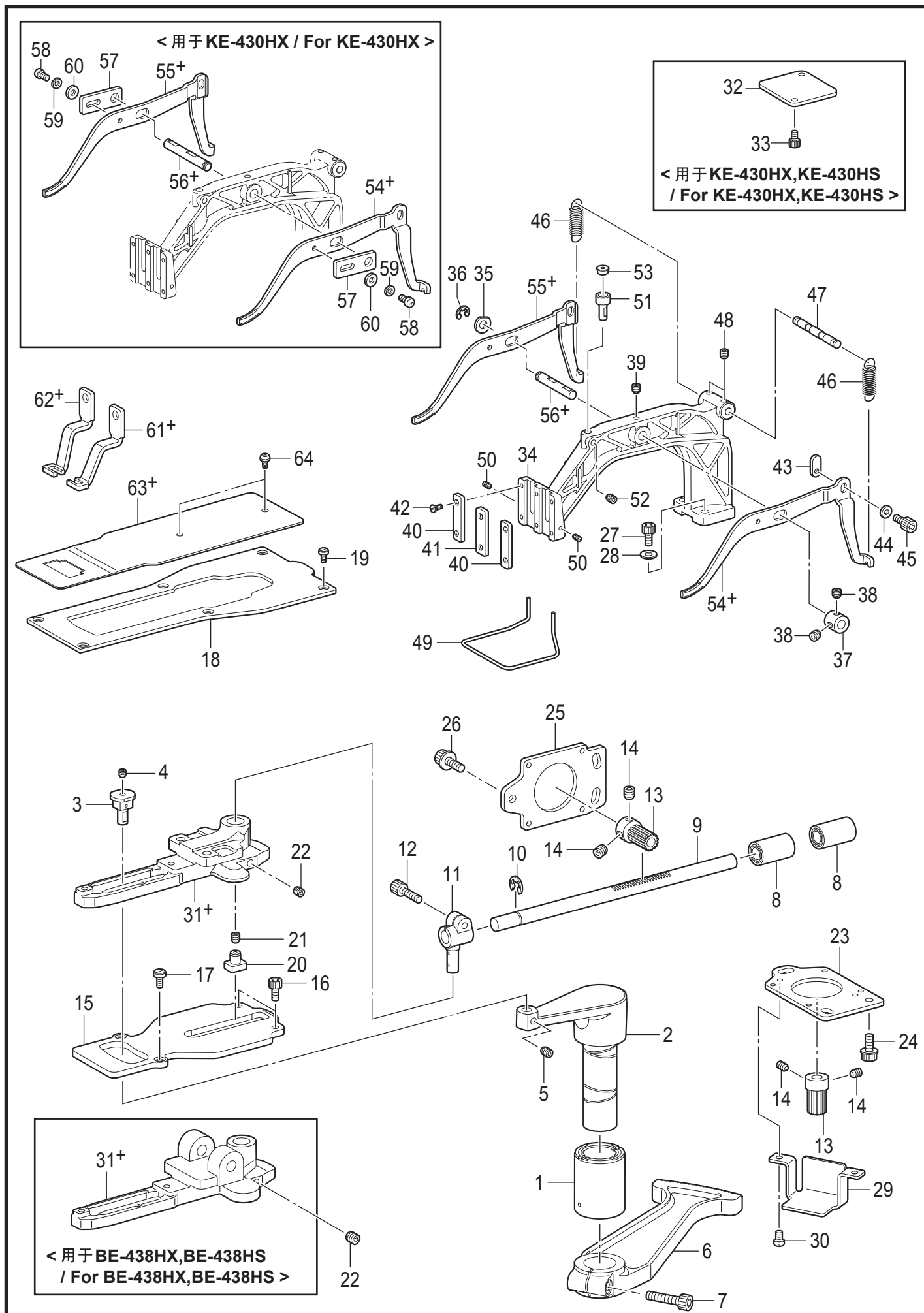


# B. 上轴和针杆装置 / Upper shaft and needle bar mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                                                    | NAME OF PARTS                                                              | RM |
|-----|-----------|----|----------------------------------------------------------|----------------------------------------------------------------------------|----|
| 42  | SB1949001 | 1  | 滑块导向                                                     | SLIDE BLOCK GUIDE                                                          |    |
| 43  | 018401636 | 2  | 螺栓 M4X16<br><用于KE-430HX>                                 | BOLT SOCKET M4X16<br><For KE-430HX>                                        |    |
| 44+ | SB7472101 | 1  | 针杆D组件<br><用于KE-430HS、BE-438HS>                           | NEEDLE BAR D ASSY<br><For KE-430HS, BE-438HS>                              |    |
| 44+ | SB4149001 | 1  | 针杆S<br><用于BE-438HX>                                      | NEEDLE BAR S<br><For BE-438HX>                                             |    |
| 44+ | SB1021101 | 1  | 针杆 D                                                     | NEEDLE BAR D                                                               |    |
| 45  | 144458001 | 1  | 螺钉 SM3.57-40X4.5                                         | SET SCREW SM3.57-40X4.5                                                    |    |
| 46  | SB1024001 | 1  | 针杆轴套 D                                                   | NEEDLE BAR BUSH D                                                          |    |
| 47  | 012500536 | 1  | 螺钉 M5X5<br><用于KE-430HX>                                  | SET SCREW SOCKET (FT) M5X5<br><For KE-430HX>                               |    |
| 48+ | SB7483001 | 1  | 针杆轴套 UC                                                  | NEEDLE BAR BUSH UC                                                         |    |
| 49  | SB7476001 | 1  | 气缸盖组件                                                    | AIR CYLINDER CAP ASSY                                                      |    |
| 50  | SB7558001 | 1  | 中间板                                                      | MIDDLE PLATE                                                               |    |
| 51  | 062401016 | 2  | 螺钉 M4X10                                                 | SCREW PAN M4X10                                                            |    |
| 52  | 149547000 | 1  | 压线板                                                      | CORD HOLDER 4N                                                             |    |
| 53+ | S00480000 | 1  | 电线夹 #5                                                   | CORD HOLDER 5N                                                             |    |
| 54+ | 0A5401006 | 2  | 螺钉(带垫圈) M4X10DB                                          | SCREW PAN (S/P WASHER) M4X10                                               |    |
| 55  | SB7473101 | 1  | 空气喷嘴组                                                    | AIR NOZZLE ASSY                                                            |    |
| 56  | 012400436 | 1  | 螺钉 M4X4                                                  | SET SCREW SOCKET (FT) M4X4                                                 |    |
| 57  | 0A5401006 | 2  | 螺钉(带垫圈) M4X10DB<br><用于KE-430HS><br><用于BE-438HX、BE-438HS> | SCREW PAN (S/P WASHER) M4X10<br><For KE-430HS><br><For BE-438HX, BE-438HS> |    |
| 48+ | SB6768001 | 1  | 针杆轴套 U                                                   | NEEDLE BAR BUSH U                                                          |    |
| 53+ | S10243000 | 1  | 尼龙夹 NK-3N                                                | CORD HOLDER:NK-3N                                                          |    |
| 54+ | 0A5401006 | 1  | 螺钉(带垫圈) M4X10DB<br><用于KE-430HX-3、-1><br><用于KE-430HS-3>   | SCREW PAN (S/P WASHER) M4X10<br><For KE-430HX-3,-1><br><For KE-430HS-3>    |    |
| 58+ | 107415014 | 1  | 机针 DPX5(#14)<br><用于KE-430HX-5><br><用于KE-430HS-5>         | NEEDLE, DPX5<br><For KE-430HX-5><br><For KE-430HS-5>                       |    |
| 58+ | S37928019 | 1  | 机针 DPX17NY(#19)<br><用于KE-430HX-K>                        | NEEDLE, DPX17NY<br><For KE-430HX-K>                                        |    |
| 58+ | 107415009 | 1  | 机针 DPX5(#9)<br><用于BE-438HX、BE-438HS>                     | NEEDLE, DPX5<br><For BE-438HX, BE-438HS>                                   |    |
| 58+ | S37928012 | 1  | 机针 DPX17NY(#12)                                          | NEEDLE, DPX17NY                                                            |    |

KE-430HX, 430HS/BE-438HX, 438HS-123

# C1. 送料装置 / Feed mechanism

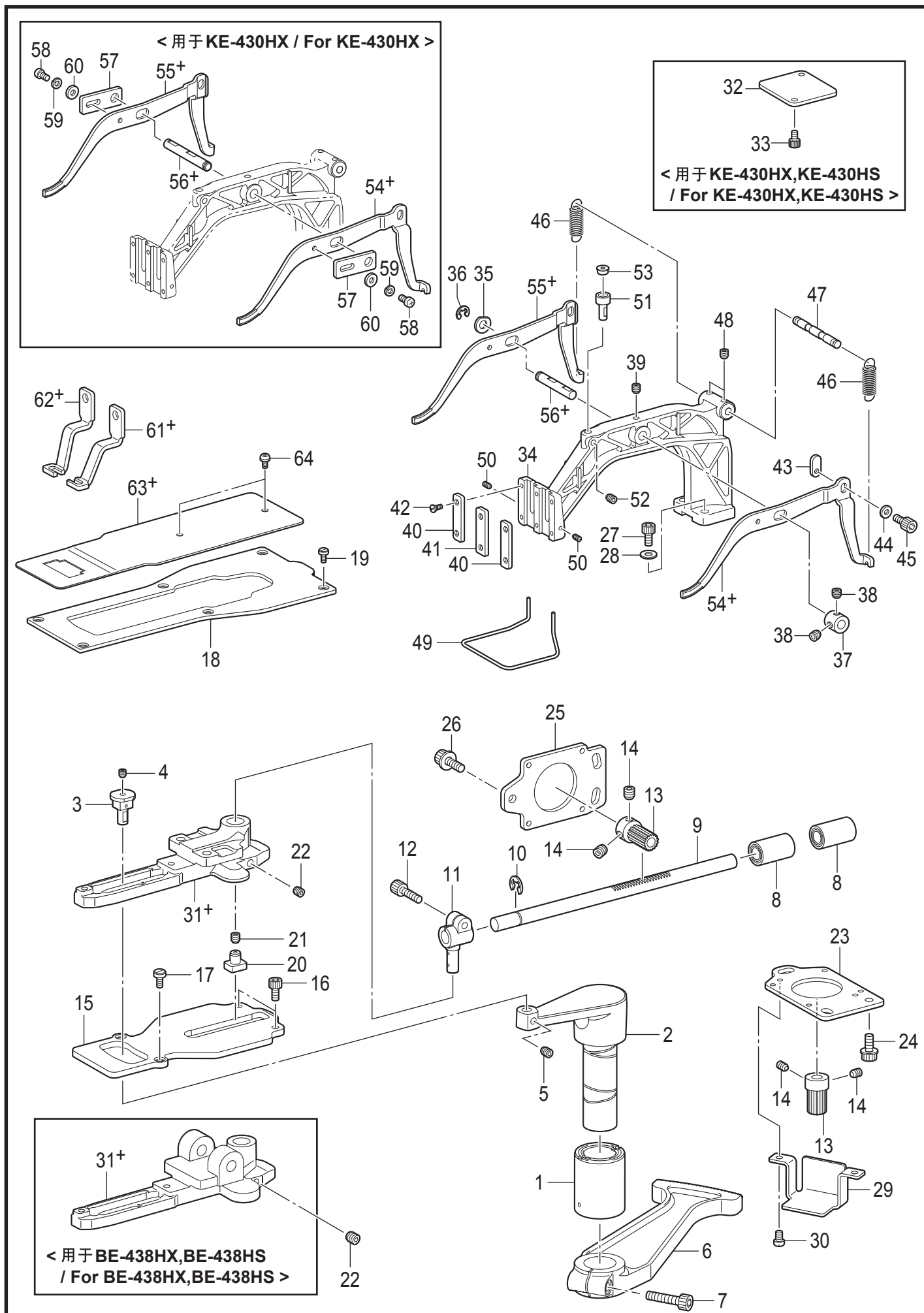


## C1. 送料装置 / Feed mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS                 | RM |
|-----|-----------|----|-----------------------|-------------------------------|----|
| 1   | SB7485001 | 1  | 送布杆轴套 (X)             | X-FEED LEVER BUSH             |    |
| 2   | SB6737001 | 1  | 送布杆 (X)               | X-FEED LEVER                  |    |
| 3   | SB0800101 | 1  | 送布杆滑块组件 (X)           | T-LENGTH REGURATOR BLOCK ASSY |    |
| 4   | 012300336 | 1  | 螺钉 M3X3               | SET SCREW SOCKET (FT) M3X3    |    |
| 5   | 012500536 | 1  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5    |    |
| 6   | SB7465101 | 1  | X送料齿轮                 | X-FEED GEAR                   |    |
| 7   | 018063036 | 1  | 螺栓 M6X30              | BOLT SOCKET M6X30             |    |
| 8   | SB4483001 | 2  | 齿条轴轴套(Y)              | Y-FEED RACK SHAFY BUSH        |    |
| 9   | SB6738101 | 1  | Y齿条轴                  | Y-FEED RACK SHAFT             |    |
| 10  | 048080342 | 1  | 挡圈 E8                 | RETAINING RING E8             |    |
| 11  | SB0917101 | 1  | 齿条轴 (Y)紧固件            | Y-FEED RACK SHAFT CLAMP       |    |
| 12  | 018501436 | 1  | 螺栓 M5X14              | BOLT SOCKET M5X14             |    |
| 13  | SB4161001 | 2  | 送料齿轮S                 | FEED GEAR S                   |    |
| 14  | 012060536 | 4  | 螺钉 M6X5               | SET SCREW, SOCKET (FT) M6X5   |    |
| 15  | SB6739001 | 1  | 送布台支板                 | FEED BAR SUPPORT PLATE        |    |
| 16  | 018401036 | 2  | 螺栓 M4X10              | BOLT SOCKET M4X10             |    |
| 17  | SA3538001 | 2  | 螺钉 M4X8               | SCREW,M4X8                    |    |
| 18  | SB6740001 | 1  | 送布台盖板                 | FEED BAR COVER                |    |
| 19  | SA3538001 | 6  | 螺钉 M4X8               | SCREW,M4X8                    |    |
| 20  | SB0803001 | 1  | 送布杆滑块组件 (Y)           | T-WIDTH REGURATOR BLOCK ASSY  |    |
| 21  | 012400436 | 1  | 螺钉 M4X4               | SET SCREW SOCKET (FT) M4X4    |    |
| 22  | 012500536 | 1  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5    |    |
| 23  | SB0919101 | 1  | 马达安装板 (X)             | X-MOTOR SETTING PLATE         |    |
| 24  | S42446001 | 3  | 螺栓 M6X14              | BOLT SOCKET (S/P WASHER)M6X14 |    |
| 25  | SB0920101 | 1  | 马达安装板 (Y)             | Y-MOTOR SETTING PLATE         |    |
| 26  | S42446001 | 3  | 螺栓 M6X14              | BOLT SOCKET (S/P WASHER)M6X14 |    |
| 27  | 018061636 | 2  | 螺栓 M6X16              | BOLT SOCKET M6X16             |    |
| 28  | 025060236 | 2  | 平垫圈 M6                | WASHER PLAIN M 6              |    |
| 29  | SB0924101 | 1  | 送料齿轮(X) 罩             | X-FEED GEAR COVER             |    |
| 30  | 062400416 | 2  | 螺钉 M4X4               | SCREW, PAN M4X4               |    |
|     |           |    | <用于KE-430HX、KE-430HS> | <For KE-430HX, KE-430HS>      |    |
| 31+ | SB6741001 | 1  | 送布台小组件 A              | FEED BAR SUB ASSY A           |    |
| 32  | SB6749001 | 1  | 压脚臂支板                 | WORK CLAMP ARM SUPPORT PLATE  |    |
| 33  | 018400836 | 2  | 螺栓 M4X8               | BOLT SOCKET M4X8              |    |
|     |           |    | <用于BE-438HX、BE-438HS> | <For BE-438HX, BE-438HS>      |    |
| 31+ | SB6743001 | 1  | 送布台小组件B               | FEED BAR SUB ASSY B           |    |
| 34  | SB6748001 | 1  | 压脚臂                   | WORK CLAMP ARM                |    |
| 35  | 110367001 | 1  | 垫圈 8                  | WASHER, PLAIN SPECIAL 8       |    |
| 36  | 048060346 | 1  | 挡圈 E6                 | RETAINING RING E6             |    |
| 37  | SA3231002 | 1  | 紧圈 B                  | SET SCREW COLLAR,B            |    |
| 38  | 012060536 | 2  | 螺钉 M6X5               | SET SCREW, SOCKET (FT) M6X5   |    |
| 39  | 012500536 | 1  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5    |    |
| 40  | SA3424101 | 2  | 压脚压板 A                | WORK CLAMP GUIDE BRACKET,A    |    |
| 41  | SA3425101 | 1  | 压脚压板 B                | WORK CLAMP GUIDE BRACKET,B    |    |
| 42  | SA3426001 | 6  | 螺钉 M3.5               | SCREW,FLAT M3.5               |    |
| 43  | SA3208301 | 2  | 压脚高度调节板               | WORK CLAMP ARM LEVER PLATE    |    |
| 44  | 146354002 | 2  | 垫圈 5                  | WASHER, PLAIN 5               |    |
| 45  | 018500836 | 2  | 螺栓 M5X8               | BOLT SOCKET M5X8              |    |
| 46  | SB6823001 | 2  | 弹簧                    | WORK CLAMP SPRING             |    |
| 47  | SB6824001 | 1  | 弹簧挂钩                  | SPRING HOLDER                 |    |
| 48  | 012500536 | 2  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5    |    |
| 49  | SA4130001 | 1  | 护指器                   | FINGER GUARD                  |    |
| 50  | SA2626001 | 2  | 螺钉 M3.5               | SET SCREW (CP) M3.5           |    |
| 51  | SA3428101 | 1  | 压脚臂短轴                 | SUPPORT SHAFT W-CLAMP         |    |
| 52  | 012500536 | 1  | 螺钉 M5X5               | SET SCREW SOCKET (FT) M5X5    |    |
| 53  | SB1172001 | 1  | 滑块                    | SLIDER                        |    |

KE-430HX, 430HS/BE-438HX, 438HS-202

# C1. 送料装置 / Feed mechanism

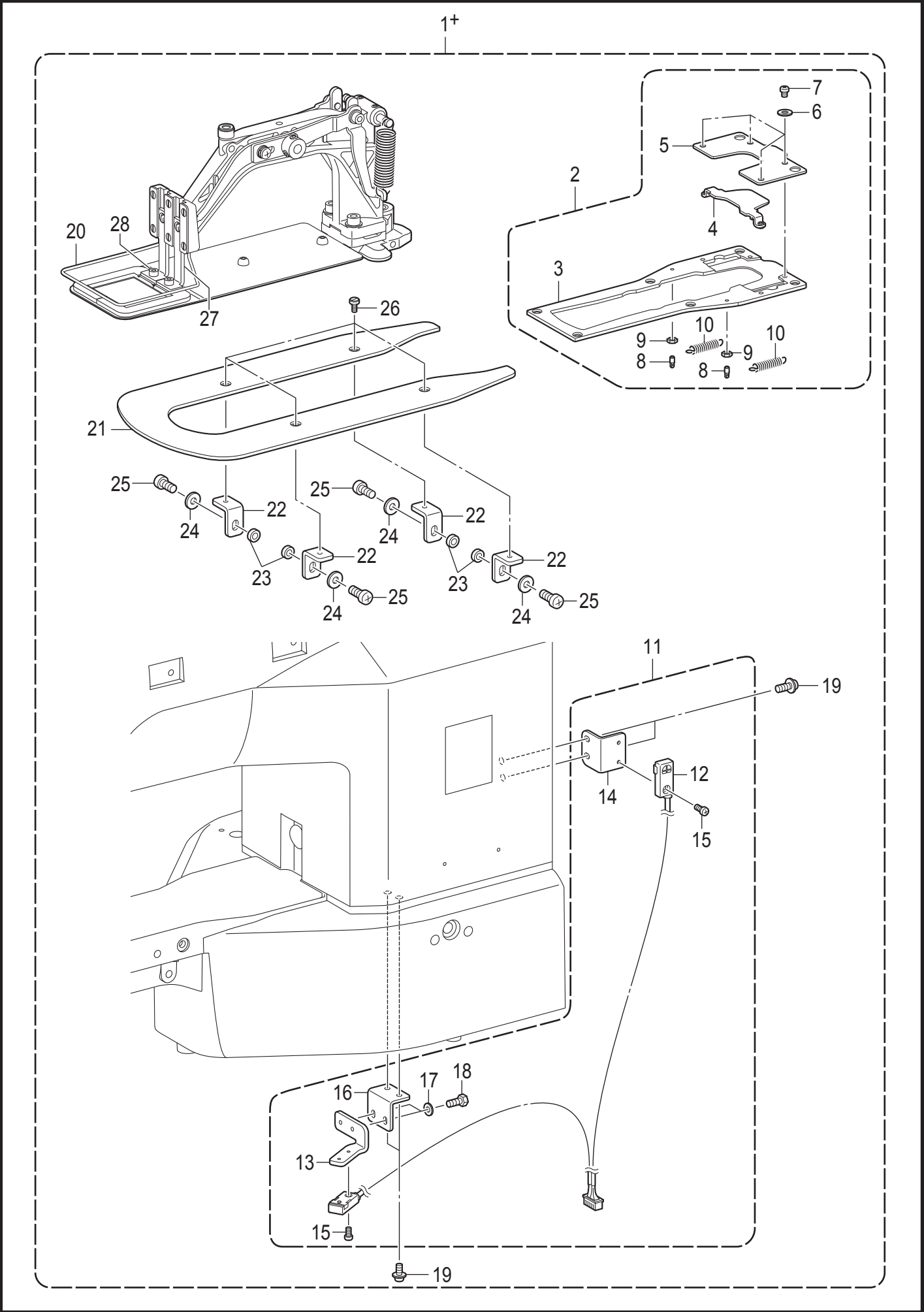


## C1. 送料装置 / Feed mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                     | NAME OF PARTS                | RM |
|-----|-----------|----|---------------------------|------------------------------|----|
|     |           |    | <b>&lt;用于KE-430HX&gt;</b> | <b>&lt;For KE-430HX&gt;</b>  |    |
| 54+ | SB6819001 | 1  | QC压脚臂杆 R                  | WORK CLAMP ARM LEVER R       |    |
| 55+ | SB6820001 | 1  | QC压脚臂杆 L                  | WORK CLAMP ARM LEVER L       |    |
| 56+ | SB4692001 | 1  | QC压脚臂杆轴                   | WORK CLAMP ARM LEVER SHAFT   |    |
| 57  | SA3423101 | 2  | QC杆轴支架                    | WORK CLAMP LEVER SUPPORT     |    |
| 58  | 062500816 | 2  | 螺钉 M5X8                   | SCREW PAN M5X8               |    |
| 59  | 028050246 | 2  | 弹簧垫圈 2-5                  | WASHER SPRING 2-5            |    |
| 60  | 026050136 | 2  | 平垫圈 S5                    | WASHER PLAIN S 5             |    |
|     |           |    | <b>&lt;用于KE-430HS&gt;</b> | <b>&lt;For KE-430HS&gt;</b>  |    |
| 54+ | SB6821001 | 1  | 压脚臂杆 R                    | WORK CLAMP ARM LEVER R       |    |
| 55+ | SB6822001 | 1  | 压脚臂杆 L                    | WORK CLAMP ARM LEVER L       |    |
| 56+ | SB0929101 | 1  | QC压脚臂杆轴                   | WORK CLAMP ARM LEVER SHAFT   |    |
| 61+ | P.52-54   | 1  | 压脚 R                      | WORK CLAMP R                 |    |
| 62+ | P.52-54   | 1  | 压脚 L                      | WORK CLAMP L                 |    |
| 63+ | P.52-55   | 1  | 送布板                       | FEED PLATE                   |    |
| 64  | 153057101 | 2  | 螺钉 SM4.37                 | SCREW, ROUND W/SOCKET SM4.37 |    |

KE-430HX, 430HS/BE-438HX, 438HS-202

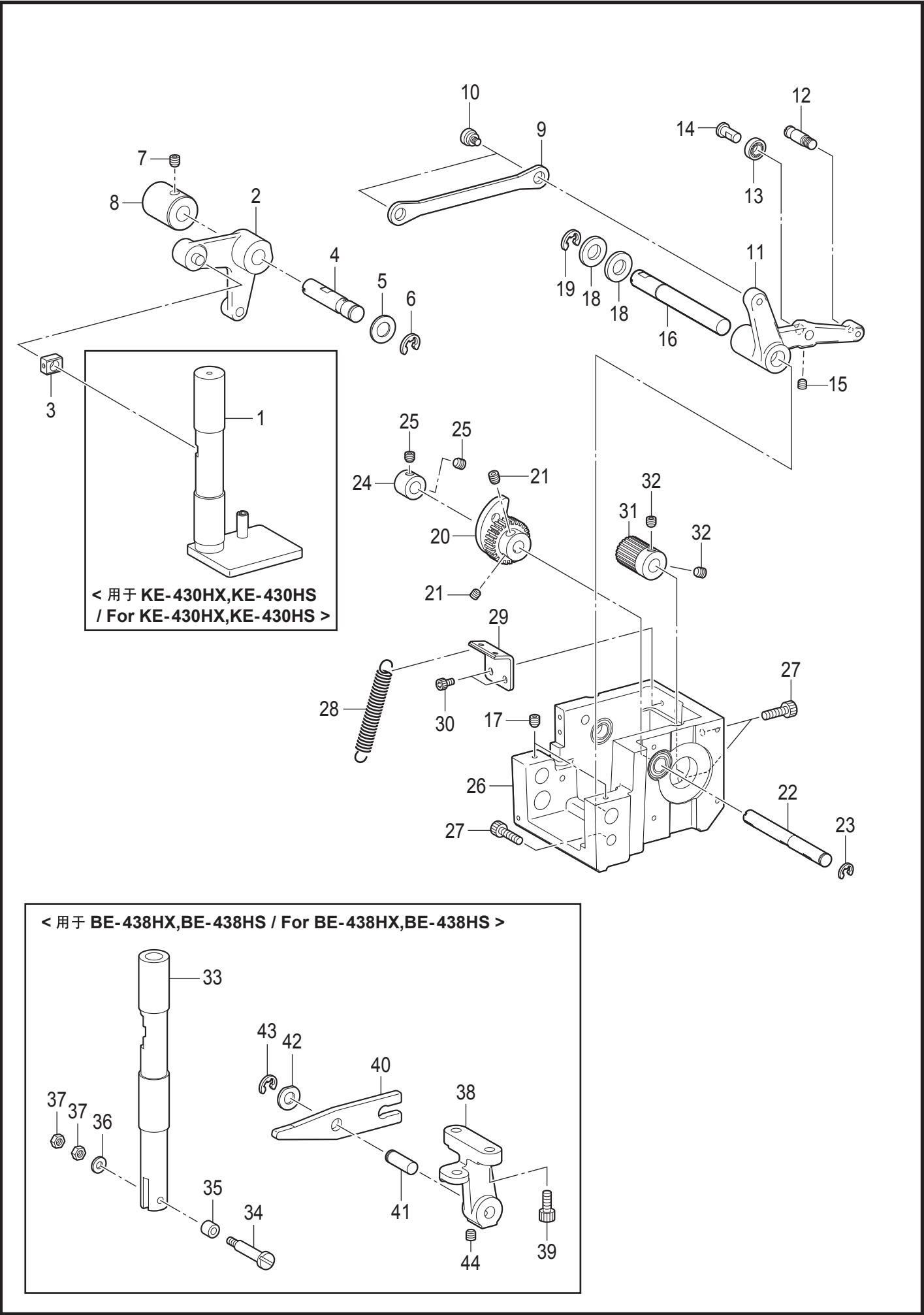
C2. 送料装置 (选配件) / Feed mechanism (Option parts)



## C2. 送料装置（选配件） / Feed mechanism (Option parts)

| 参照号 | 零部件序号     | 数量 | 零部件名称               | NAME OF PARTS                                 | RM |
|-----|-----------|----|---------------------|-----------------------------------------------|----|
| 1+  | SB7777001 | 1  | <用于一般出口><br>50x40套装 | <For General export><br>50X40 SEWING AREA SET |    |
| 1+  | SB77770E1 | 1  | <用于欧洲><br>50x40套装   | < For Europe><br>50X40 SEWING AREA SET        |    |
| 2   | SB7776001 | 1  | 送布台盖板W组件            | FEED BAR COVER W ASSY                         |    |
| 3   | SB7761001 | 1  | 送布台盖板 W             | FEED BAR COVER W                              |    |
| 4   | SB7762001 | 1  | 滑盖                  | SLIDE COVER                                   |    |
| 5   | SB7763001 | 1  | 滑盖导向                | COVER GUIDE                                   |    |
| 6   | 026040236 | 4  | 平垫圈 M4              | WASHER PLAIN M 4                              |    |
| 7   | 062400416 | 4  | 螺钉 M4X4             | SCREW, PAN M4X4                               |    |
| 8   | SB7764001 | 2  | 弹簧挂钩                | SPRING HOOK                                   |    |
| 9   | 021300306 | 2  | 螺母 M3               | NUT 3 M3                                      |    |
| 10  | SB7765001 | 2  | 复位簧                 | SPRING                                        |    |
| 11  | SB7897001 | 1  | 原点感应器大组件            | HOME POSITION SENSOR ASSY                     |    |
| 12  | SB7896001 | 1  | 原点感应器组件             | HOME POSITION SENSOR SET                      |    |
| 13  | SB7893001 | 1  | X感应器安装板             | X SENSOR SETTING PLATE                        |    |
| 14  | SB7894001 | 1  | Y感应器安装板             | Y SENSOR SETTING PLATE                        |    |
| 15  | 062300616 | 2  | 螺钉 M3X6             | SCREW PAN M3X6                                |    |
| 16  | SB7895001 | 1  | X感应器基座              | X SENSOR BASE                                 |    |
| 17  | 026040236 | 2  | 平垫圈 M4              | WASHER PLAIN M 4                              |    |
| 18  | 017400802 | 2  | 螺栓 M4X8             | BOLT M4X8                                     |    |
| 19  | 0A5401006 | 4  | 螺钉(带垫圈) M4X10DB     | SCREW PAN (S/P WASHER) M4X10                  |    |
| 20  | SB7772001 | 1  | 护指器 W               | FINGER GUARD W                                |    |
| 21  | SB7773001 | 1  | 针板辅助板               | NEEDLE PLATE AUXILIARY PLATE                  |    |
| 22  | SB7774001 | 4  | 补助板支架               | AUXILIARY PLATE SUPPORT                       |    |
| 23  | SB7775001 | 4  | 挡圈                  | COLLAR                                        |    |
| 24  | SB3849001 | 4  | 平垫圈 M5              | WASHER_PLAIN_M_5                              |    |
| 25  | 062501216 | 4  | 螺钉 M5X12            | SCREW PAN M5X12                               |    |
| 26  | SA3538001 | 4  | 螺钉 M4X8             | SCREW,M4X8                                    |    |
| 27  | S59909001 | 2  | 压脚 W                | WORK CLAMP WIDE                               |    |
| 28  | S59892001 | 2  | 螺栓 SM4.37-40X5      | BOLT, SOCKET SM4.37-40X5                      |    |

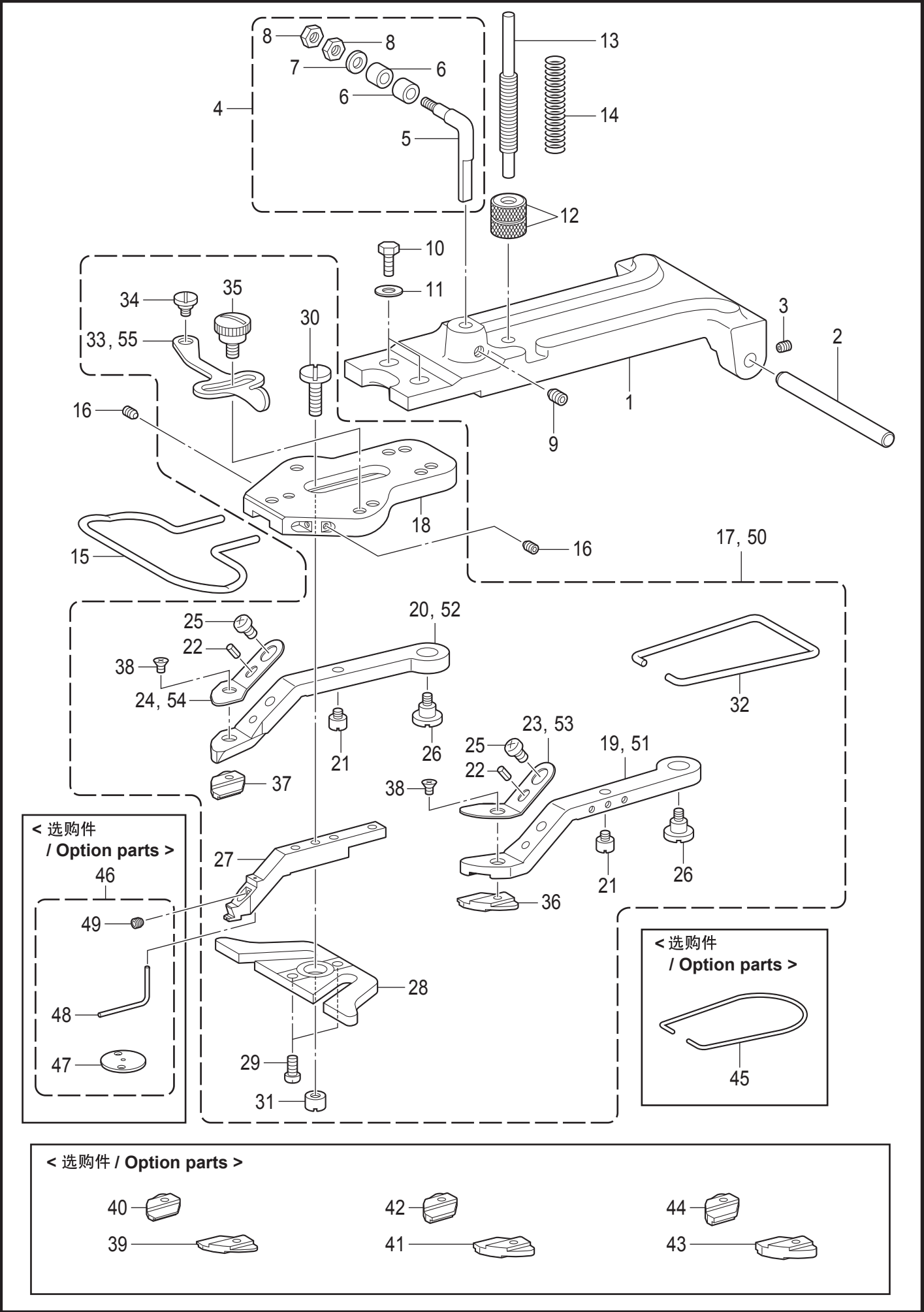
D. 抬压装置 / Work clamp lifter mechanism



## D. 抬压装置 / Work clamp lifter mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                            | NAME OF PARTS                                            | RM |
|-----|-----------|----|----------------------------------|----------------------------------------------------------|----|
| 1   | SB6803001 | 1  | <用于KE-430HX、KE-430HS><br>抬压压脚板组件 | <For KE-430HX, KE-430HS><br>WORK CLAMP LIFTER PLATE ASSY |    |
| 2   | SB1080101 | 1  | 抬压连杆组件                           | LIFTER LEVER ASSY                                        |    |
| 3   | 102630001 | 1  | 针杆接头滑块                           | NEEDLE BAR GUIDE SLIDE BLOCK                             |    |
| 4   | SB0962101 | 1  | 抬压杆轴                             | LEVER SHAFT                                              |    |
| 5   | S20356001 | 1  | 平垫圈 10                           | WASHER, PLAIN 10                                         |    |
| 6   | 048080342 | 1  | 挡圈 E8                            | RETAINING RING E8                                        |    |
| 7   | 012060536 | 1  | 螺钉 M6X5                          | SET SCREW, SOCKET (FT) M6X5                              |    |
| 8   | SB0961001 | 1  | 抬压杆轴套                            | W-CLAMP LIFTER LEVER BUSH                                |    |
| 9   | SB0963101 | 1  | 抬压杆                              | LINK                                                     |    |
| 10  | SB0705101 | 2  | 轴位螺钉                             | LINK SHOULDER SCREW                                      |    |
| 11  | SB6806101 | 1  | 抬压驱动杆                            | W-CLAMP DRIVING LEVER                                    |    |
| 12  | SB0965101 | 1  | 弹簧挂销 M5                          | SPRING HOLDER M5                                         |    |
| 13  | SB4435001 | 1  | 抬压脚滚轮                            | W-CLAMP LIFTER ROLLER                                    |    |
| 14  | SA3441101 | 1  | 抬压滚轮轴                            | W-CLAMP LIFTER ROLLER SHAFT                              |    |
| 15  | 012500536 | 1  | 螺钉 M5X5                          | SET SCREW SOCKET (FT) M5X5                               |    |
| 16  | SB6807001 | 1  | 抬压凸轮杆轴                           | W-CLAMP CAM LEVER SHAFT                                  |    |
| 17  | 012500536 | 2  | 螺钉 M5X5                          | SET SCREW SOCKET (FT) M5X5                               |    |
| 18  | S20356001 | 2  | 平垫圈 10                           | WASHER, PLAIN 10                                         |    |
| 19  | 048080342 | 1  | 挡圈 E8                            | RETAINING RING E8                                        |    |
| 20  | SB4164001 | 1  | 抬压凸轮齿轮 S                         | CAM GEAR S                                               |    |
| 21  | 012060536 | 2  | 螺钉 M6X5                          | SET SCREW, SOCKET (FT) M6X5                              |    |
| 22  | SB6808001 | 1  | 抬压凸轮轴                            | W-CLAMP CAM SHAFT                                        |    |
| 23  | 048060346 | 1  | 挡圈 E6                            | RETAINING RING E6                                        |    |
| 24  | SA3231002 | 1  | 紧圈 B                             | SET SCREW COLLAR,B                                       |    |
| 25  | 012060536 | 2  | 螺钉 M6X5                          | SET SCREW, SOCKET (FT) M6X5                              |    |
| 26  | SB6809001 | 1  | 马达座组件                            | MOTOR BRACKET ASSY                                       |    |
| 27  | 018062036 | 3  | 螺栓 M6X20                         | BOLT SOCKET M6X20                                        |    |
| 28  | SB0964001 | 1  | 弹簧                               | SPRING                                                   |    |
| 29  | SB0968101 | 1  | 弹簧挂钩                             | SPRING HOOK                                              |    |
| 30  | 018400836 | 2  | 螺栓 M4X8                          | BOLT SOCKET M4X8                                         |    |
| 31  | SB4160001 | 1  | 驱动齿轮 16S                         | GEAR 16S                                                 |    |
| 32  | 012060536 | 2  | 螺钉 M6X5                          | SET SCREW, SOCKET (FT) M6X5                              |    |
| 33  | SA3628001 | 1  | <用于BE-438HX、BE-438HS><br>夹扣杆     | <For BE-438HX, BE-438HS><br>BUTTON CLAMP ROD             |    |
| 34  | SA3629001 | 1  | 夹扣滚轮轴                            | BUTTON CLAMP ROLLER SHAFT                                |    |
| 35  | 107744001 | 1  | 滚轮                               | ROLLER                                                   |    |
| 36  | SB3848001 | 1  | 平垫圈 M4                           | WASHER_PLAIN_M_4                                         |    |
| 37  | 021400216 | 2  | 六角螺母 M4                          | NUT 2 M4                                                 |    |
| 38  | SB1078001 | 1  | 夹扣手柄支架                           | BUTTON CLAMP LEVER HOLDER                                |    |
| 39  | 018061636 | 1  | 螺栓 M6X16                         | BOLT SOCKET M6X16                                        |    |
| 40  | SA3631001 | 1  | 夹扣手柄                             | BUTTON CLAMP LEVER                                       |    |
| 41  | SB1079001 | 1  | 夹扣杆轴                             | BUTTON CLAMP LEVER SHAFT                                 |    |
| 42  | 110367001 | 1  | 垫圈 8                             | WASHER, PLAIN SPECIAL 8                                  |    |
| 43  | 048060346 | 1  | 挡圈 E6                            | RETAINING RING E6                                        |    |
| 44  | 012060636 | 1  | 螺钉 M6X6                          | SET SCREW SOCKET (FT) M6X6                               |    |

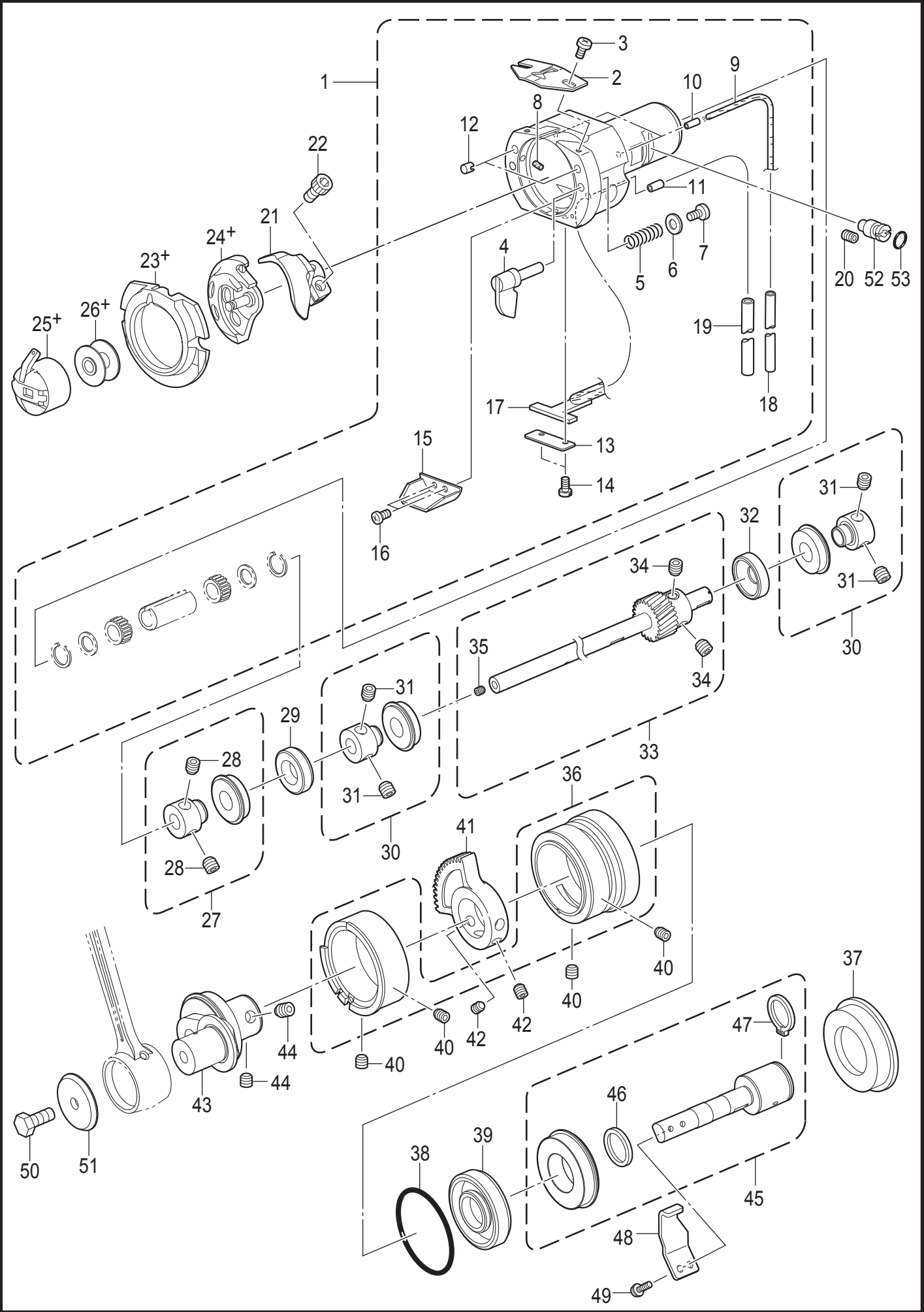
E. 钮扣夹装置 / Button clamp mechanism



## E. 钮扣夹装置 / Button clamp mechanism

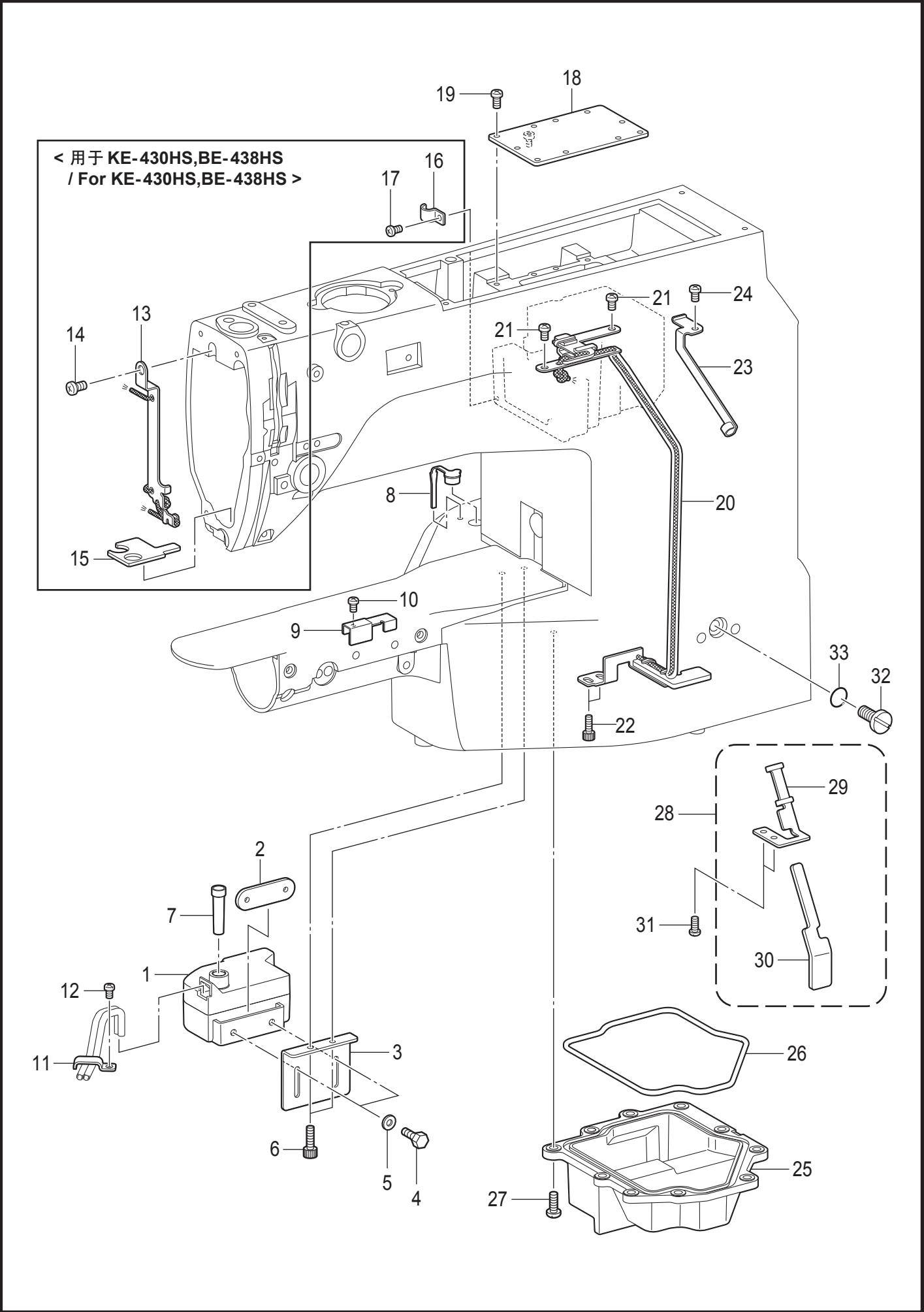
| 参照号 | 零部件序号     | 数量 | 零部件名称          | NAME OF PARTS                 | RM |
|-----|-----------|----|----------------|-------------------------------|----|
| 1   | 153830100 | 1  | 钮夹支架           | BUTTON CLAMP HOLDER           |    |
| 2   | 153827001 | 1  | 钮夹支架轴          | BUTTON CLAMP HOLDER SHAFT     |    |
| 3   | 014680632 | 2  | 螺钉 SM4.37-40X6 | SET SCREW SOCKET SM4.37-40X6  |    |
| 4   | 151968001 | 1  | 支架钩组件          | BUTTON CLAMP HOLDER HOOK ASSY |    |
| 5   | 151969001 | 1  | 支架钩            | B-CLAMP HOLDER HOOK           |    |
| 6   | 107744001 | 2  | 滚轮             | ROLLER                        |    |
| 7   | SB2330001 | 1  | 平垫圈 S4.76      | WASHER PLAIN S SM4.76         |    |
| 8   | 105234003 | 2  | 螺母 SM4.37      | NUT SM4.37                    |    |
| 9   | 014760632 | 1  | 螺钉 SM5.95-28X6 | SET SCREW SOCKET SM5.95-28X6  |    |
| 10  | 017711412 | 2  | 螺栓 SM4.76X14   | BOLT SM4.76-32X14             |    |
| 11  | 146354001 | 2  | 垫圈 5           | WASHER, PLAIN 5               |    |
| 12  | 146994001 | 2  | 调整螺母 SM6.35-40 | NUT, ROUND SM6.35-40          |    |
| 13  | 115148201 | 1  | 螺钉 SM6.35-40   | ADJUSTING SCREW SM6.35-40     |    |
| 14  | 115147001 | 1  | 压簧             | COMPRESSION SPRING            |    |
| 15  | S49998001 | 1  | 护指器            | FINGER GUARD                  |    |
| 16  | 011679312 | 2  | 固定螺钉 SM3.57    | SET SCREW, (FT) SM3.57        |    |
| 17  | SA9287201 | 1  | 钮扣夹组件 S        | BUTTON CLAMP ASSY S           |    |
| 18  | SA9288001 | 1  | 钮夹台            | BUTTON CLAMP BASE             |    |
| 19  | SB7748001 | 1  | 钮扣夹 L-S        | BUTTON CLAMP L-S              |    |
| 20  | SB7749001 | 1  | 钮扣夹 R-S        | BUTTON CLAMP R-S              |    |
| 21  | SA9291001 | 2  | 导向销            | BUTTON CLAMP GUIDE PIN        |    |
| 22  | 047250642 | 2  | 弹簧销 AW2.5      | PIN SPRING ROLL AW2.5         |    |
| 23  | SB7750001 | 1  | 钮扣夹左簧片 S       | BUTTON CLAMP L PLATE SPRING S |    |
| 24  | SB7751001 | 1  | 钮扣夹右簧片 S       | BUTTON CLAMP R PLATE SPRING S |    |
| 25  | 062400416 | 2  | 螺钉 M4X4        | SCREW, PAN M4X4               |    |
| 26  | SA9294001 | 2  | 轴位螺钉 4         | SHOULDER SCREW 4              |    |
| 27  | SB6951001 | 1  | 钮扣夹 M          | BUTTON CLAMP M                |    |
| 28  | SA9302001 | 1  | 钮夹调节板凸轮        | BUTTON CLAMP PLATE CAM        |    |
| 29  | 062400816 | 2  | 螺钉 M4X8        | SCREW PAN M4X8                |    |
| 30  | SA9296001 | 1  | 螺钉 4           | SCREW 4                       |    |
| 31  | SA9297001 | 1  | 圆螺母 4          | NUT ROUND 4                   |    |
| 32  | SB7752001 | 1  | 钮扣夹弹簧 S        | BUTTON CLAMP SPRING S         |    |
| 33  | SA9298001 | 1  | 钮夹调节板          | BUTTON CLAMP ADJUSTING PLATE  |    |
| 34  | SA9299001 | 1  | 轴位螺钉 4         | SHOULDER SCREW 4              |    |
| 35  | SA9300001 | 1  | 轴位螺钉 4         | SHOULDER SCREW 4              |    |
| 36  | SB7755001 | 1  | 钮扣夹垫 BL        | BUTTON CLAMP SPACER BL        |    |
| 37  | SB7756001 | 1  | 钮扣夹垫 BR        | BUTTON CLAMP SPACER BR        |    |
| 38  | S01694101 | 2  | 螺钉 SM2.38X4    | SCREW FLAT SM2.38X4           |    |
|     |           |    | <选购件>          | <OPTION PARTS>                |    |
| 39  | SB7753001 | 1  | 钮扣夹垫 AL        | BUTTON CLAMP SPACER AL        |    |
| 40  | SB7754001 | 1  | 钮扣夹垫 AR        | BUTTON CLAMP SPACER AR        |    |
| 41  | SB7757001 | 1  | 钮扣夹垫 CL        | BUTTON CLAMP SPACER CL        |    |
| 42  | SB7758001 | 1  | 钮扣夹垫 CL        | BUTTON CLAMP SPACER CR        |    |
| 43  | SB7759001 | 1  | 钮扣夹垫 DL        | BUTTON CLAMP SPACER DL        |    |
| 44  | SB7760001 | 1  | 钮扣夹垫 DR        | BUTTON CLAMP SPACER DR        |    |
| 45  | S59321001 | 1  | 弹簧             | SPRING                        |    |
| 46  | SB7247001 | 1  | 钮扣上浮弹簧N复合件     | SPRING N SET                  |    |
| 47  | SB7058001 | 1  | 针孔板 1.6        | NEEDLE HOLE PLATE 1.6         |    |
| 48  | SB7061001 | 1  | 钮扣上浮弹簧N        | SPRING N                      |    |
| 49  | 012300336 | 1  | 螺钉 M3X3        | SET SCREW SOCKET (FT) M3X3    |    |
| 50  | SA9303201 | 1  | 钮扣夹组件L         | BUTTON CLAMP ASSY L           |    |
| 51  | SA9304001 | 1  | 钮夹 L-L         | BUTTON CLAMP L-L              |    |
| 52  | SA9305001 | 1  | 钮夹 R-L         | BUTTON CLAMP R-L              |    |
| 53  | SA9306001 | 1  | 钮夹左簧片 L        | BUTTON CLAMP L PLATE SPRING L |    |
| 54  | SA9307001 | 1  | 钮夹右簧片 L        | BUTTON CLAMP R PLATE SPRING L |    |
| 55  | SA9308001 | 1  | 钮夹调节板          | BUTTON CLAMP ADJUSTING PLATE  |    |

F. 下轴装置 / Lower shaft mechanism



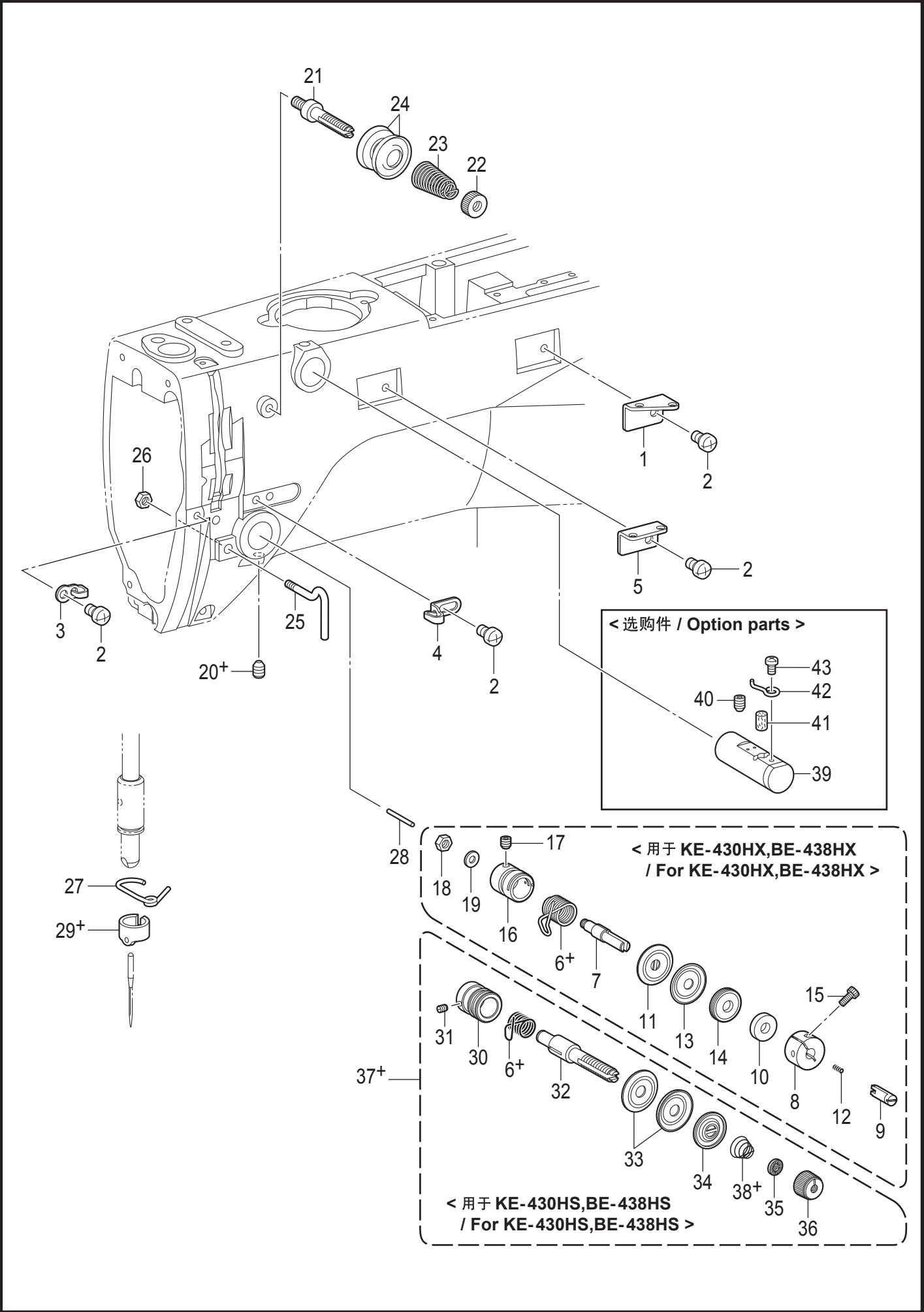
F. 下轴装置 / Lower shaft mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称         | NAME OF PARTS                 | RM |
|-----|-----------|----|---------------|-------------------------------|----|
| 1   | SB1652201 | 1  | 梭床复合件         | SHUTTLE RACE BASE SET         |    |
| 2   | SB1285001 | 1  | 旋梭线导向         | SHUTTLE RACE THREAD GUIDE     |    |
| 3   | SA4199001 | 2  | 螺钉 M3X4       | SCREW M3X4                    |    |
| 4   | SB4158001 | 2  | 大旋梭固定柄 S      | S-RACE BASE SETTING CLAW S    |    |
| 5   | 152684101 | 2  | 弹簧            | COMPRESSION SPRING            |    |
| 6   | 026030136 | 2  | 平垫圈 S3        | WASHER PLAIN S 3              |    |
| 7   | 062300616 | 2  | 螺钉 M3X6       | SCREW PAN M3X6                |    |
| 8   | SA9396001 | 2  | 油毡            | FELT                          |    |
| 9   | SB1044001 | 2  | 油毡            | FELT                          |    |
| 10  | SB1050001 | 2  | 油管 S          | OIL FEEDING PIPE S            |    |
| 11  | SB1048101 | 1  | 油管 M          | OIL FEEDING PIPE M            |    |
| 12  | SA9397001 | 2  | 橡皮塞 5.5       | RUBBER CAP 5.5                |    |
| 13  | SB1047001 | 1  | 油毡支撑板         | FELT HOLDER                   |    |
| 14  | SA9191001 | 2  | 螺钉 M3X5.5     | SCREW M3X5.5                  |    |
| 15  | SA3274101 | 1  | 油毡支架          | FELT HOLDER                   |    |
| 16  | S47307001 | 2  | 螺钉 M3X4       | SCREW, M3X4                   |    |
| 17  | SB1049001 | 1  | 油毡组件          | FELT ASSY                     |    |
| 18  | SB1054001 | 2  | 油管 L=340      | OIL TUBE L=340                |    |
| 19  | SB1055001 | 1  | 油管 L=430      | OIL TUBE L=430                |    |
| 20  | 012060636 | 1  | 螺钉 M6X6       | SET SCREW SOCKET (FT) M6X6    |    |
| 21  | SA6448301 | 1  | 梭托 E          | DRIVER E                      |    |
| 22  | 018501036 | 1  | 螺栓 M5X10      | BOLT SOCKET M5X10             |    |
| 23+ | P.51      | 1  | 外旋梭           | SHUTTLE RACE BASE             |    |
| 24+ | P.51      | 1  | 中旋梭组件         | SHUTTLE HOOK ASSY W/BOX       |    |
| 25+ | P.51      | 1  | 梭芯套组件         | BOBBIN CASE ASSY              |    |
| 26+ | P.51      | 1  | 梭芯            | BOBBIN                        |    |
| 27  | SB7487001 | 1  | 轴承轴套组件        | BEARING BUSH ASSY             |    |
| 28  | S23651001 | 2  | 固定螺钉 M6X6     | SET SCREW SOCKET (FT) M6X6    |    |
| 29  | SB7497001 | 1  | 油封            | OIL SEAL SC8-24-7             |    |
| 30  | SB4742001 | 2  | 轴承套组件         | BEARING BUSH ASSY             |    |
| 31  | S23651001 | 4  | 固定螺钉 M6X6     | SET SCREW SOCKET (FT) M6X6    |    |
| 32  | SB1258001 | 1  | 油封            | OIL SEAL                      |    |
| 33  | SB7009101 | 1  | 下轴大组件         | LOWER SHAFT SET               |    |
| 34  | S23651001 | 2  | 固定螺钉 M6X6     | SET SCREW SOCKET (FT) M6X6    |    |
| 35  | 012400436 | 1  | 螺钉 M4X4       | SET SCREW SOCKET (FT) M4X4    |    |
| 36  | SB8587001 | 1  | 摆动齿轮套环 N      | ROCK GEAR COLLAR N            |    |
| 37  | SB8588001 | 1  | 橡皮塞 43.2      | RUBBER CAP 43.2               |    |
| 38  | 081040070 | 1  | O形圈 P40       | O RING P40                    |    |
| 39  | SB7496001 | 1  | 油封            | OIL SEAL SC20-37-7            |    |
| 40  | 012060636 | 4  | 螺钉 M6X6       | SET SCREW SOCKET (FT) M6X6    |    |
| 41  | SB4163001 | 1  | 摆动齿轮 S        | ROCK GEAR S                   |    |
| 42  | S23651001 | 2  | 固定螺钉 M6X6     | SET SCREW SOCKET (FT) M6X6    |    |
| 43  | SB7901001 | 1  | 摆动齿轮轴F组件      | ROCK GEAR SHAFT F ASSY        |    |
| 44  | S23651001 | 2  | 固定螺钉 M6X6     | SET SCREW SOCKET (FT) M6X6    |    |
| 45  | SB7902101 | 1  | 摆动齿轮轴R组件      | ROCK GEAR SHAFT R ASSY        |    |
| 46  | SB7909001 | 1  | 平垫圈 20        | WASHER PLAIN 20               |    |
| 47  | 048200142 | 1  | 轴用挡圈 C20      | RETAINING RING EXTERNAL C20   |    |
| 48  | SB7494001 | 1  | 飞溅板           | SPLASH PLATE                  |    |
| 49  | S55481001 | 2  | 螺栓(带垫圈) M4X12 | BOLT SOCKET (S/P WASHER)M4X12 |    |
| 50  | 017061006 | 1  | 螺栓 M6X10      | BOLT M6X10                    |    |
| 51  | SB1051001 | 1  | 曲柄连杆垫圈        | WASHER CRANK LID              |    |
| 52  | SA3238401 | 1  | 旋梭调节轴         | ADJUSTING STUD                |    |
| 53  | 081003670 | 1  | O形圈 PW3       | O RING PW3                    |    |



## G. 供油润滑装置 / Lubrication

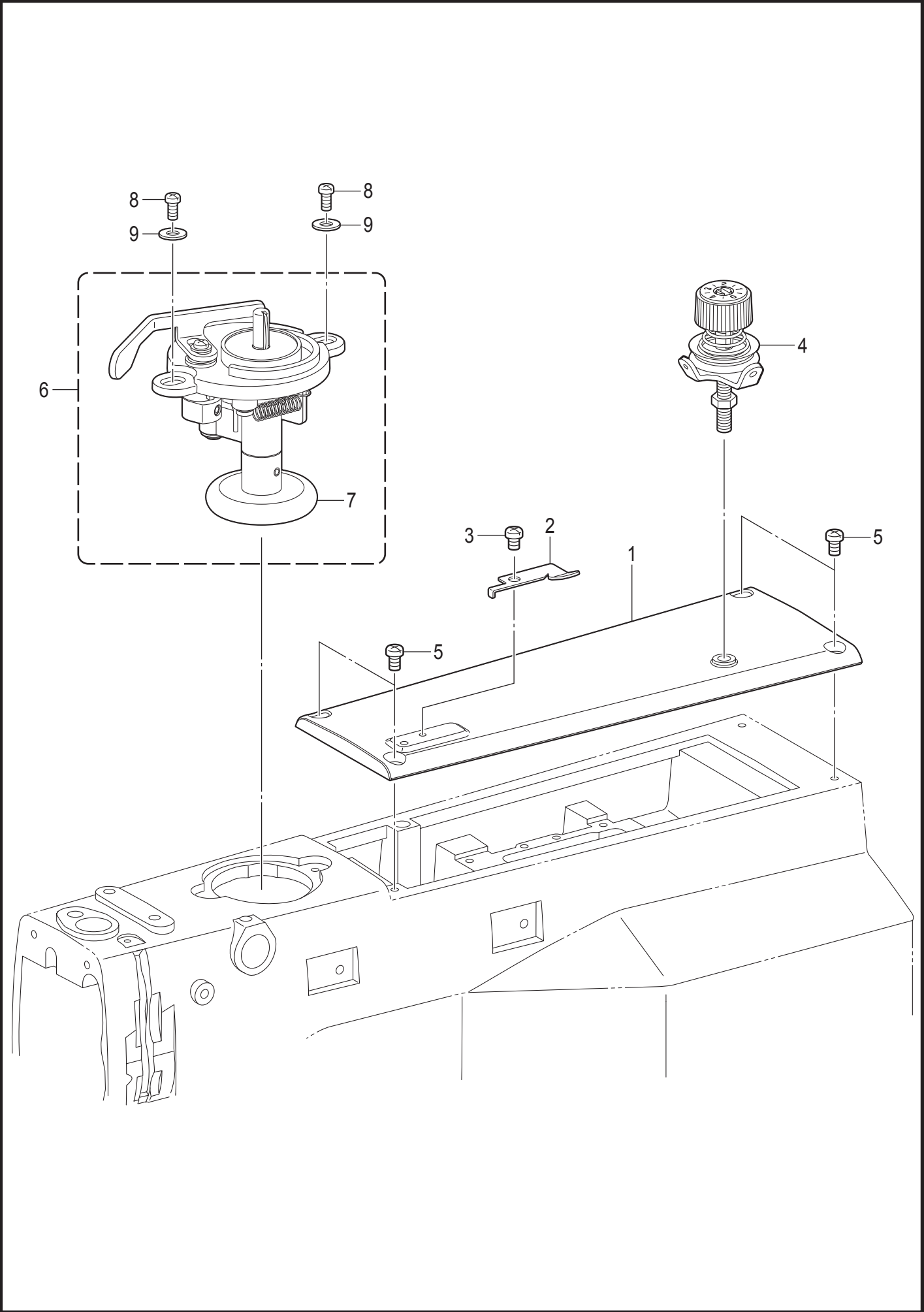
| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS            | RM |
|-----|-----------|----|-----------------------|--------------------------|----|
| 1   | SB6777101 | 1  | 油箱组件                  | OIL TANK ASSY            |    |
| 2   | SB1053101 | 1  | 油箱螺母                  | OIL TANK NUT             |    |
| 3   | SB1056101 | 1  | 油箱安装板                 | OIL TANK PLATE           |    |
| 4   | 017401015 | 2  | 螺栓 M4X10              | BOLT M4X10               |    |
| 5   | SB3848001 | 2  | 平垫圈 M4                | WASHER_PLAIN_M_4         |    |
| 6   | 018400836 | 2  | 螺栓 M4X8               | BOLT SOCKET M4X8         |    |
| 7   | SB0911001 | 1  | 接头                    | JOINT                    |    |
| 8   | SA9917001 | 1  | 供油口罩盖                 | OIL FEEDING POCKET COVER |    |
| 9   | SB1276001 | 1  | 油管夹                   | OIL TUBE SUPPORT         |    |
| 10  | 062400616 | 1  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
| 11  | SA1394101 | 1  | 线夹 U3                 | CORD HOLDER U3           |    |
| 12  | 062400616 | 1  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
|     |           |    | <用于KE-430HS、BE-438HS> | <For KE-430HS, BE-438HS> |    |
| 13  | SB6752001 | 1  | 油线挂钩组件                | WICK HOLDER ASSY         |    |
| 14  | 062500816 | 1  | 螺钉 M5X8               | SCREW PAN M5X8           |    |
| 15  | SB7907001 | 1  | 针杆油毡                  | NEEDLE BAR FELT          |    |
| 16  | 140647101 | 1  | 电线固定夹                 | CORD HOLDER              |    |
| 17  | 062400616 | 1  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
| 18  | SB7906001 | 1  | 曲柄盖组件                 | CRANK COVER ASSY         |    |
| 19  | 062401016 | 10 | 螺钉 M4X10              | SCREW PAN M4X10          |    |
| 20  | SB6759001 | 1  | 曲柄供油组件                | CRANK LUB ASSY           |    |
| 21  | 062400616 | 2  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
| 22  | 018400636 | 2  | 螺栓 M4X6               | BOLT SOCKET M4X6         |    |
| 23  | SB6764101 | 1  | 油管夹                   | TUBE HOLDER              |    |
| 24  | 062400616 | 1  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
| 25  | SB6757201 | 1  | 底板侧盖组件                | BED BOTTOM COVER ASSY    |    |
| 26  | SB7557101 | 1  | 侧盖垫片                  | BOTTOM COVER PACKING     |    |
| 27  | 062501216 | 10 | 螺钉 M5X12              | SCREW PAN M5X12          |    |
| 28  | SB7498001 | 1  | 下轴油毡组件                | L SHAFT FELT ASSY        |    |
| 29  | SB7490001 | 1  | 下轴油毡支架                | L SHAFT FELT CLAMPER     |    |
| 30  | SB7491001 | 1  | 下轴油毡                  | L SHAFT FELT             |    |
| 31  | 062400616 | 2  | 螺钉 M4X6               | SCREW PAN M4X6           |    |
| 32  | SA1303101 | 1  | 螺钉 8                  | SCREW M8                 |    |
| 33  | 081008070 | 1  | O形圈 P8                | O RING P8                |    |



## H. 穿线装置 / Threading mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                                | NAME OF PARTS                           | RM |
|-----|-----------|----|--------------------------------------|-----------------------------------------|----|
| 1   | SA3250001 | 1  | 过线导向 A                               | ARM THREAD GUIDE,A                      |    |
| 2   | 062500616 | 4  | 螺钉 M5X6                              | SCREW PAN M5X6                          |    |
| 3   | SA4333001 | 1  | 过线导向 B                               | ARM THREAD GUIDE,B                      |    |
| 4   | SA6391001 | 1  | 过线器 C                                | ARM THREAD GUIDE C                      |    |
| 5   | SB1086001 | 1  | 机头导线板 D                              | ARM THREAD GUIDE D                      |    |
| 6+  | P.51      | 1  | 挑线弹簧                                 | THREAD TAKE-UP SPRING                   |    |
|     |           |    | <b>&lt;用于KE-430HX、BE-438HX&gt;</b>   | <b>&lt;For KE-430HX, BE-438HX&gt;</b>   |    |
| 7   | SB1084001 | 1  | DT夹线杆                                | DT TENSION STUD                         |    |
| 8   | SB1088101 | 1  | 紧圈 DT                                | SET COLLAR DT                           |    |
| 9   | SB1180201 | 1  | 轴                                    | SHAFT                                   |    |
| 10  | SB1181001 | 1  | 缓冲垫 DT                               | DT CUSHION                              |    |
| 11  | SA6190001 | 1  | 夹线盘 DT                               | DISC DT                                 |    |
| 12  | SB1267001 | 1  | 弹簧                                   | COIL SPRING                             |    |
| 13  | 145446001 | 1  | 夹线盘                                  | DISC TENSION                            |    |
| 14  | SB1281001 | 1  | 锥形夹线盘压板                              | TAPER DISC PRESSER                      |    |
| 15  | 018301036 | 1  | 螺栓 M3X10                             | BOLT SOCKET M3X10                       |    |
| 16  | SB1182101 | 1  | 夹线基座 DT 组件                           | TENSION BRACKET ASSY                    |    |
| 17  | 012400436 | 1  | 螺钉 M4X4                              | SET SCREW SOCKET (FT) M4X4              |    |
| 18  | 021500316 | 1  | 六角螺母 M5                              | NUT 3 M5                                |    |
| 19  | SB2330001 | 1  | 平垫圈 S4.76                            | WASHER PLAIN S SM4.76                   |    |
| 20+ | SA4143001 | 1  | 螺钉 M6X6                              | SET SCREW, (FT) M6X6                    |    |
|     |           |    | <b>&lt;用于KE-430HS、BE-438HS&gt;</b>   | <b>&lt;For KE-430HS, BE-438HS&gt;</b>   |    |
| 20+ | SA1229101 | 1  | 螺钉 M6X6                              | SET SCREW (FT) M6X6                     |    |
| 21  | SA3256001 | 1  | 夹线杆轴 A                               | TENSION STUD A                          |    |
| 22  | 100136001 | 1  | 夹线螺母                                 | TENSION NUT                             |    |
| 23  | SA4146101 | 1  | 弹簧                                   | SUB TENSION SPRING                      |    |
| 24  | 145446001 | 2  | 夹线盘                                  | DISC TENSION                            |    |
| 25  | SB1087001 | 1  | 机壳线钩                                 | THREAD GUIDE ARM                        |    |
| 26  | 021400306 | 1  | 六角螺母 M4                              | NUT 3 M4                                |    |
| 27  | SB1058001 | 1  | 针杆轴套线导向 D                            | N-BAR BUSH THREAD GUIDE D               |    |
| 28  | S50384101 | 1  | 松线销                                  | TENSION RELEASE PIN                     |    |
| 29+ | P.52      | 1  | 针杆线导向                                | NEEDLE BAR THREAD GUIDE                 |    |
|     |           |    | <b>&lt;用于KE-430HS、BE-438HS&gt;</b>   | <b>&lt;For KE-430HS, BE-438HS&gt;</b>   |    |
| 30  | SB1600001 | 1  | 夹线器基座                                | THREAD TENSION BRACKET                  |    |
| 31  | 100402004 | 1  | 固定螺钉 SM3.57                          | SET SCREW SM3.57                        |    |
| 32  | 116922201 | 1  | 夹线螺杆                                 | TENSION STUD                            |    |
| 33  | 145446021 | 2  | 夹线盘                                  | DISC TENSION                            |    |
| 34  | 159805001 | 1  | 夹线压盘                                 | TENSION DISC PRESSER                    |    |
| 35  | SB4216001 | 1  | 止动垫圈                                 | WASHER                                  |    |
| 36  | SB4038001 | 1  | 夹线螺母                                 | TENSION NUT                             |    |
|     |           |    | <b>&lt;用于KE-430HS-3、BE-438HS&gt;</b> | <b>&lt;For KE-430HS-3, BE-438HS&gt;</b> |    |
| 37+ | SB4442101 | 1  | 夹线器基座组件                              | THREAD TENSION BRACKET ASSY             |    |
| 38+ | 104525103 | 1  | 夹线弹簧                                 | TENSION SPRING H                        |    |
|     |           |    | <b>&lt;用于KE-430HS-5&gt;</b>          | <b>&lt;For KE-430HS-5&gt;</b>           |    |
| 37+ | SB4443101 | 1  | 夹线器基座组件                              | THREAD TENSION BRACKET ASSY             |    |
| 38+ | 107606101 | 1  | 夹线弹簧                                 | TENSION SPRING                          |    |
|     |           |    | <b>&lt;选购件&gt;</b>                   | <b>&lt;OPTION PARTS&gt;</b>             |    |
| 39  | 152881101 | 1  | 线冷却器组件                               | NEEDLE COOLER ASSY                      |    |
| 40  | 012060636 | 1  | 螺钉 M6X6                              | SET SCREW SOCKET (FT) M6X6              |    |
| 41  | 152883000 | 1  | 油毡 8X15.5                            | FELT, 8X15.5                            |    |
| 42  | 152884001 | 1  | 过线钩                                  | NEEDLE COOLER THREAD GUIDE              |    |
| 43  | 062670412 | 1  | 螺钉 SM3.57-40X4                       | SCREW PAN SM3.57-40X4                   |    |

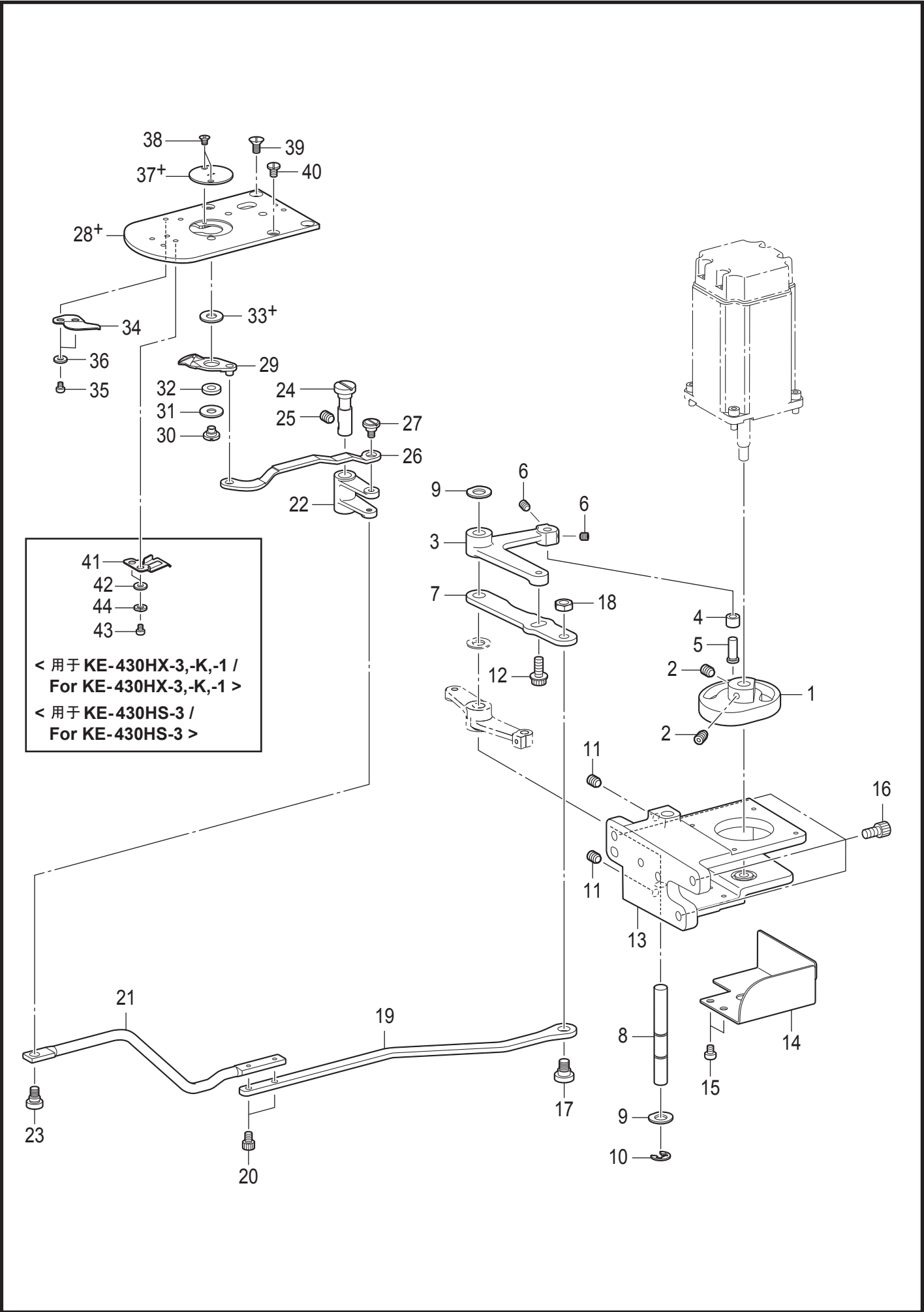
KE-430HX, 430HS/BE-438HX, 438HS-401



## J. 绕线装置 / Bobbin winder mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称    | NAME OF PARTS              | RM |
|-----|-----------|----|----------|----------------------------|----|
| 1   | SB7495101 | 1  | 上盖       | TOP COVER                  |    |
| 2   | SA3299001 | 1  | 切刀       | KNIFE                      |    |
| 3   | 062500616 | 1  | 螺钉 M5X6  | SCREW PAN M5X6             |    |
| 4   | SB3571101 | 1  | 绕线器夹线组件  | BOBBIN WINDER TENSION ASSY |    |
| 5   | 062500816 | 4  | 螺钉 M5X8  | SCREW PAN M5X8             |    |
| 6   | SB4589001 | 1  | 绕线器组件    | BOBBIN WINDER UNIT         |    |
| 7   | SB3543001 | 1  | 橡皮塞      | RUBBER RING                |    |
| 8   | 062401016 | 2  | 螺钉 M4X10 | SCREW PAN M4X10            |    |
| 9   | SB3848001 | 2  | 平垫圈 M4   | WASHER_PLAIN_M_4           |    |

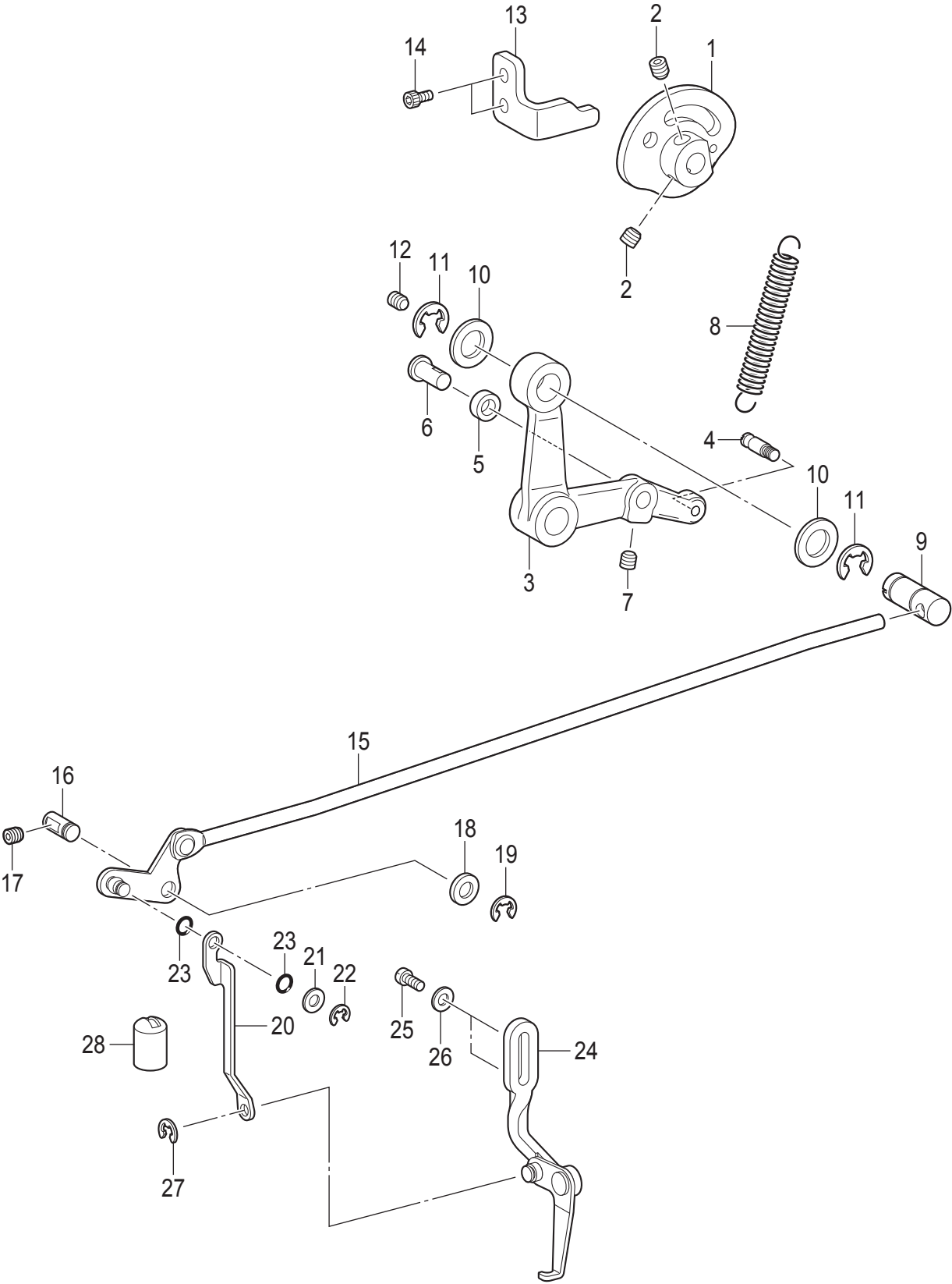
K. 切线装置 / Thread trimmer mechanism



KE-430HX, 430HS/BE-438HX, 438HS-403

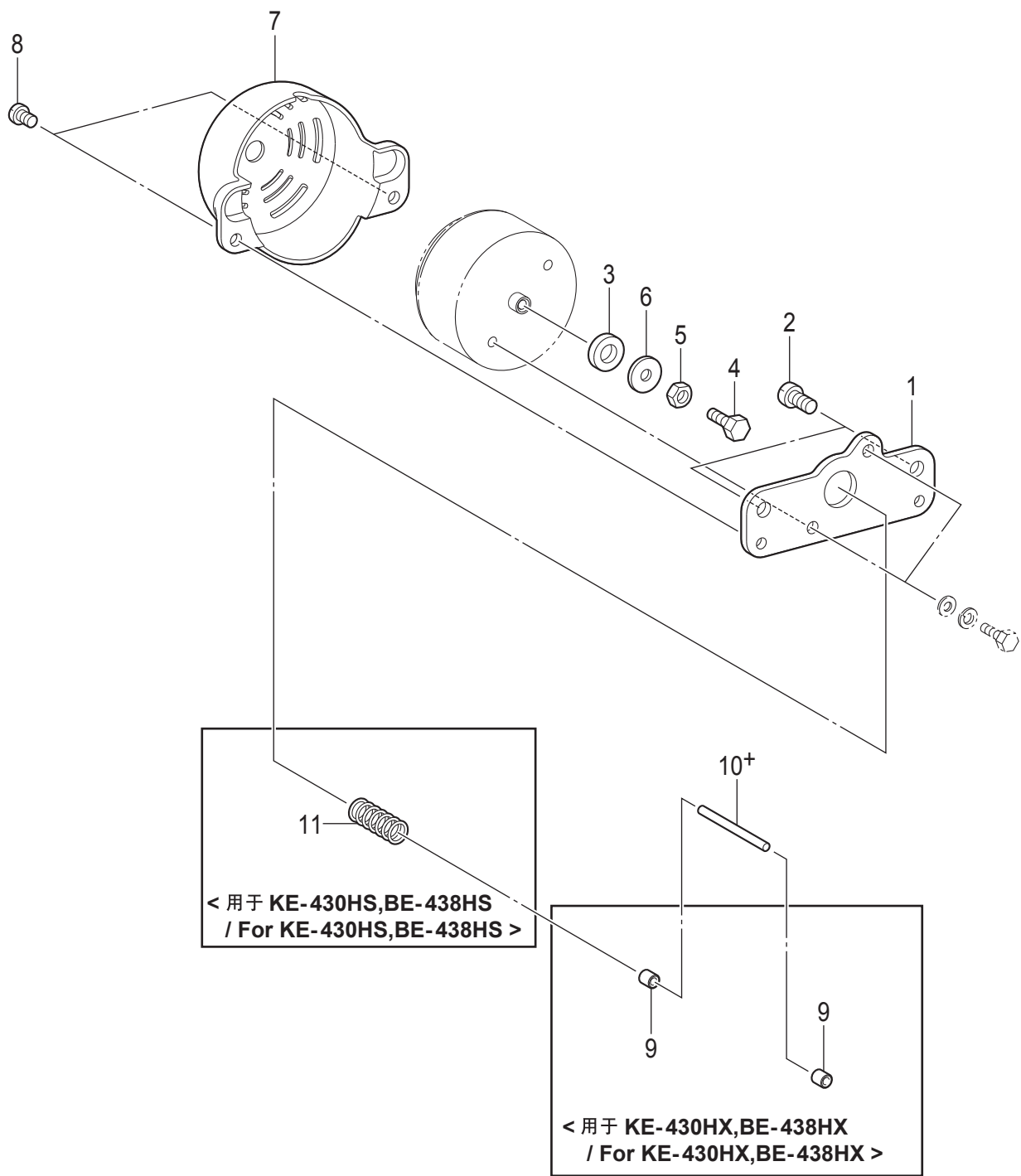
# K. 切线装置 / Thread trimmer mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                                                  | NAME OF PARTS                                                            | RM |
|-----|-----------|----|--------------------------------------------------------|--------------------------------------------------------------------------|----|
| 1   | SB6785001 | 1  | 切线凸轮                                                   | THREAD TRIMMER CAM                                                       |    |
| 2   | 012060636 | 2  | 螺钉 M6X6                                                | SET SCREW SOCKET (FT) M6X6                                               |    |
| 3   | SB6786001 | 1  | 切线凸轮曲柄                                                 | THREAD TRIMMER CAM LEVER                                                 |    |
| 4   | SB6787001 | 1  | 切线滚轮 H                                                 | COLLAR TR-TRIMMER H                                                      |    |
| 5   | SB6788001 | 1  | 切线滚轮轴                                                  | COLLAR SHAFT                                                             |    |
| 6   | 012400436 | 2  | 螺钉 M4X4                                                | SET SCREW SOCKET (FT) M4X4                                               |    |
| 7   | SB6789001 | 1  | 切线杠杆                                                   | THREAD TRIMMER LEVER                                                     |    |
| 8   | SB6790001 | 1  | 切线凸轮曲柄轴                                                | THREAD TRIMMER CAM LEVER SHAFT                                           |    |
| 9   | 110367001 | 2  | 垫圈 8                                                   | WASHER, PLAIN SPECIAL 8                                                  |    |
| 10  | 048060342 | 1  | 挡圈 E6                                                  | RETAINING RING E6                                                        |    |
| 11  | 012060636 | 2  | 螺钉 M6X6                                                | SET SCREW SOCKET (FT) M6X6                                               |    |
| 12  | S42446001 | 1  | 螺栓 M6X14                                               | BOLT SOCKET (S/P WASHER)M6X14                                            |    |
| 13  | SB6791101 | 1  | 马达后座架组件                                                | MOTOR BRACKET REAR ASSY                                                  |    |
| 14  | SB7556001 | 1  | 马达座后盖组件                                                | MOTOR BRACKET REAR COVER                                                 |    |
| 15  | 062400616 | 2  | 螺钉 M4X6                                                | SCREW PAN M4X6                                                           |    |
| 16  | 018061236 | 3  | 螺栓 M6X12                                               | BOLT SOCKET M6X12                                                        |    |
| 17  | SB0705101 | 1  | 轴位螺钉                                                   | LINK SHOULDER SCREW                                                      |    |
| 18  | 021060306 | 1  | 六角螺母 M6                                                | NUT 3 M6                                                                 |    |
| 19  | SB6382001 | 1  | 切线连接                                                   | THREAD TRIMMER LINK                                                      |    |
| 20  | 018400636 | 2  | 螺栓 M4X6                                                | BOLT SOCKET M4X6                                                         |    |
| 21  | SB6383001 | 1  | 切线杆                                                    | THREAD TRIMMER ROD                                                       |    |
| 22  | SA3324101 | 1  | 动刀曲柄                                                   | MOVING KNIFE LEVER                                                       |    |
| 23  | SB6793001 | 1  | 台阶螺钉 6.5-3                                             | SHOULDER SCREW 6.5-3                                                     |    |
| 24  | SA3326101 | 1  | 动刀曲柄轴                                                  | SHAFT M-KNIFE LEVER                                                      |    |
| 25  | 012060636 | 1  | 螺钉 M6X6                                                | SET SCREW SOCKET (FT) M6X6                                               |    |
| 26  | SA3327501 | 1  | 动刀连杆                                                   | M-KNIFE CONNECTING PLATE                                                 |    |
| 27  | SA4354001 | 1  | 轴位螺钉 6-1.8                                             | SHOULDER SCREW,6-1.8                                                     |    |
| 28+ | SB0714201 | 1  | <用于KE-430HX-3、-K、-1><br>针板                             | <For KE-430HX-3,-K,-1><br>NEEDLE PLATE                                   |    |
| 28+ | SB4595201 | 1  | <用于KE-430HX-5、KE-430HS><br><用于BE-438HX、BE-438HS><br>针板 | <For KE-430HX-5, KE-430HS><br><For BE-438HX, BE-438HS><br>NEEDLE PLATE   |    |
| 29  | SB6952001 | 1  | 动刀复合件 H                                                | MOVABLE KNIFE SET H                                                      |    |
| 30  | SA4518001 | 1  | 轴位螺钉                                                   | MOVABLE KNIFE SHOULDER SCREW                                             |    |
| 31  | SA4519001 | 1  | 轴向垫圈                                                   | THRUST WASHER                                                            |    |
| 32  | S00705001 | 1  | 动刀圈套                                                   | MOVABLE KNIFE COLLAR                                                     |    |
| 33+ | SA6397001 | 1  | 垫片 0.2                                                 | M-KNIFE SPACER T0.2                                                      |    |
| 33+ | SB3049001 | 1  | 垫片 0.25                                                | M-KNIFE SPACER T0.25                                                     |    |
| 33+ | SA3334001 | 1  | 垫片 0.3                                                 | M-KNIFE SPACER T0.3                                                      |    |
| 33+ | SB0955001 | 1  | 垫片 0.35                                                | M-KNIFE SPACER T0.35                                                     |    |
| 34  | SB6953001 | 1  | 定刀复合件 H                                                | FIXED KNIFE SET H                                                        |    |
| 35  | 062300416 | 2  | 螺钉 M3X4                                                | SCREW PAN M3X4                                                           |    |
| 36  | SB3847001 | 2  | 平垫圈 M3                                                 | WASHER_PLAIN_M_3                                                         |    |
| 37+ | P.51,55   | 1  | 针孔板                                                    | NEEDLE HOLE PLATE                                                        |    |
| 38  | 100360003 | 2  | 螺钉 SM2.38                                              | SCREW                                                                    |    |
| 39  | S25310101 | 2  | 螺钉 M4                                                  | SCREW, FLAT M4                                                           |    |
| 40  | SA3538001 | 2  | 螺钉 M4X8                                                | SCREW,M4X8                                                               |    |
| 41  | SB0713001 | 1  | <用于KE-430HX-3、-K、-1><br><用于KE-430HS-3><br>底线压簧         | <For KE-430HX-3,-K,-1><br><For KE-430HS-3><br>BOBBIN THREAD CLAMP SPRING |    |
| 42  | SB3847001 | 2  | 平垫圈 M3                                                 | WASHER_PLAIN_M_3                                                         |    |
| 43  | 062300416 | 2  | 螺钉 M3X4                                                | SCREW PAN M3X4                                                           |    |
| 44  | 028030246 | 2  | 弹簧垫圈 2-3                                               | WASHER SPRING 2-3                                                        |    |



## L. 扫线装置 / Thread wiper mechanism

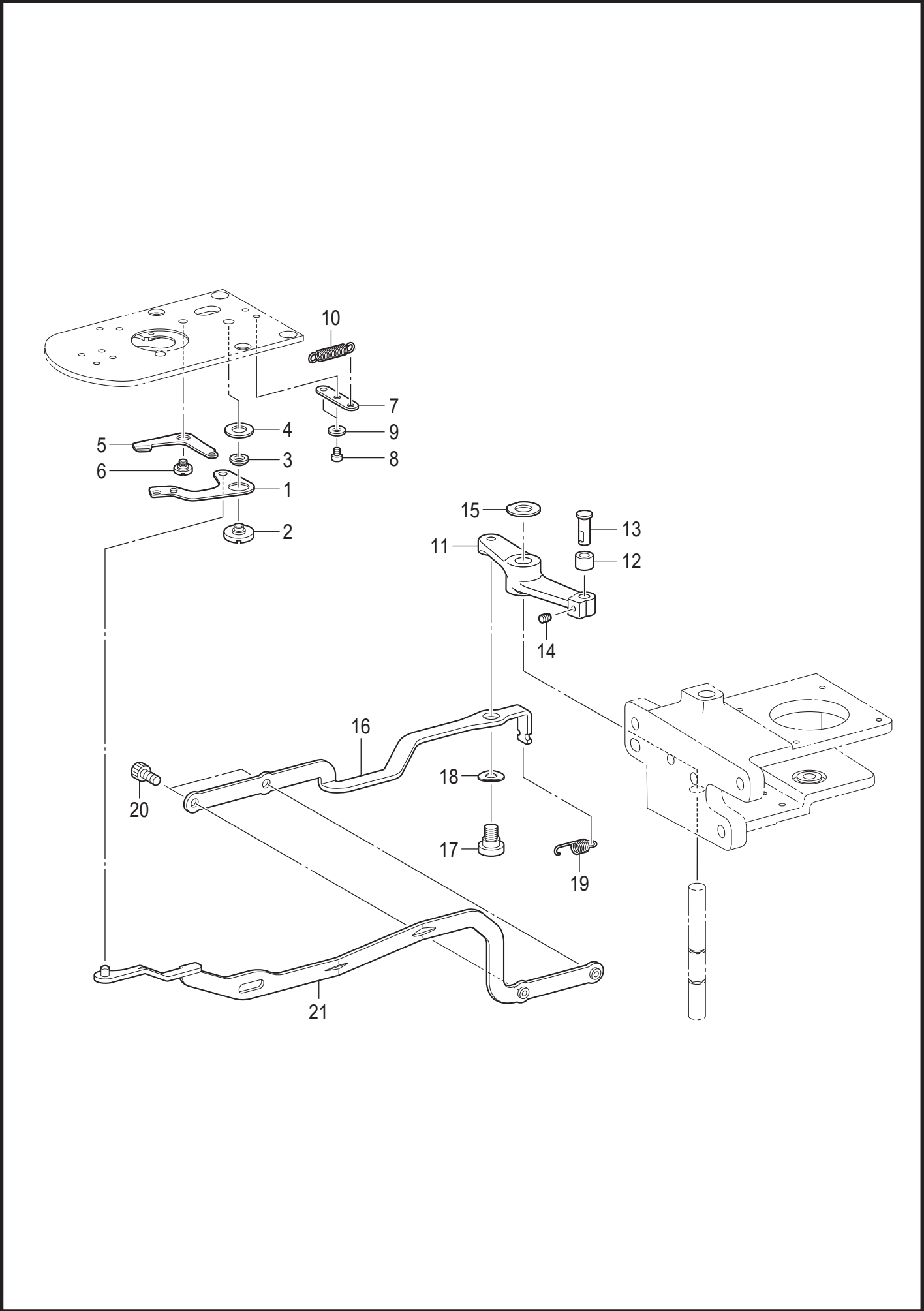
| 参照号 | 零部件序号     | 数量 | 零部件名称    | NAME OF PARTS               | RM |
|-----|-----------|----|----------|-----------------------------|----|
| 1   | SB6816001 | 1  | 扫线凸轮组件   | THREAD WIPER CAM ASSY       |    |
| 2   | 012060536 | 2  | 螺钉 M6X5  | SET SCREW, SOCKET (FT) M6X5 |    |
| 3   | SB6813001 | 1  | 扫线驱动曲柄   | T-WIPER DRIVING LEVER       |    |
| 4   | SB0965101 | 1  | 弹簧挂销 M5  | SPRING HOLDER M5            |    |
| 5   | SA3449101 | 1  | 扫线滚轮     | THREAD WIPER ROLLER         |    |
| 6   | SA3441101 | 1  | 抬压滚轮轴    | W-CLAMP LIFTER ROLLER SHAFT |    |
| 7   | 012500536 | 1  | 螺钉 M5X5  | SET SCREW SOCKET (FT) M5X5  |    |
| 8   | SB0964001 | 1  | 弹簧       | SPRING                      |    |
| 9   | SB0972101 | 1  | 扫线杆轴     | THREAD WIPER ROD SHAFT      |    |
| 10  | S20356001 | 2  | 平垫圈 10   | WASHER, PLAIN 10            |    |
| 11  | 048080342 | 2  | 挡圈 E8    | RETAINING RING E8           |    |
| 12  | 012500536 | 1  | 螺钉 M5X5  | SET SCREW SOCKET (FT) M5X5  |    |
| 13  | SB6815001 | 1  | 凸轮定位     | CAM STOPPER                 |    |
| 14  | 018400836 | 2  | 螺栓 M4X8  | BOLT SOCKET M4X8            |    |
| 15  | SB6812001 | 1  | 扫线杆组件    | THREAD WIPER ROD ASSY       |    |
| 16  | SB0977001 | 1  | 扫线轴      | WIPER SHAFT                 |    |
| 17  | 012500536 | 1  | 螺钉 M5X5  | SET SCREW SOCKET (FT) M5X5  |    |
| 18  | 155559021 | 1  | 平垫圈      | WASHER PLAIN                |    |
| 19  | 048040342 | 1  | 挡圈 E4    | RETAINING RING E4           |    |
| 20  | SA3458101 | 1  | 扫线连接板    | CONNECTING PLATE            |    |
| 21  | SB2255001 | 1  | 平垫圈 S5   | WASHER PLAIN S 5            |    |
| 22  | 048040342 | 1  | 挡圈 E4    | RETAINING RING E4           |    |
| 23  | 081005070 | 2  | O形圈 P5   | O RING P5                   |    |
| 24  | SA3459101 | 1  | 扫线臂组件    | THREAD WIPER ARM ASSY       |    |
| 25  | 062401016 | 2  | 螺钉 M4X10 | SCREW PAN M4X10             |    |
| 26  | SB3848001 | 2  | 平垫圈 M4   | WASHER_PLAIN_M_4            |    |
| 27  | 048040342 | 1  | 挡圈 E4    | RETAINING RING E4           |    |
| 28  | SA3464001 | 1  | 油塞       | OIL CAP                     |    |



## M. 松线装置 / Tension release mechanism

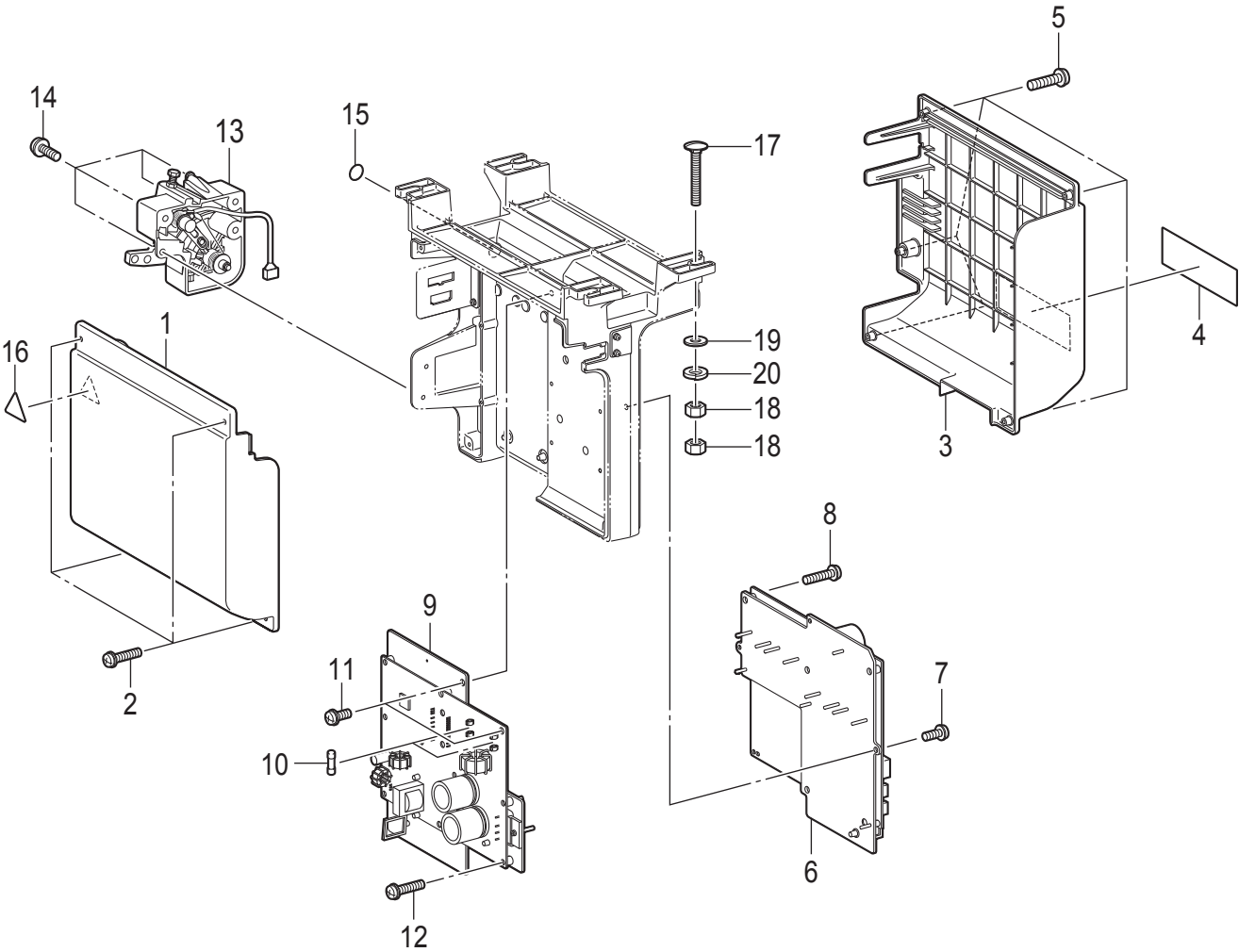
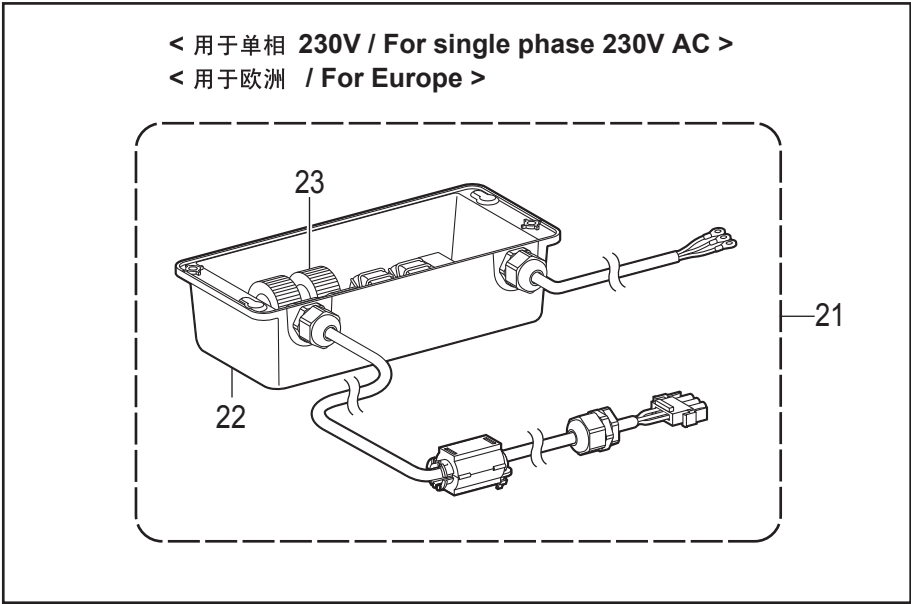
| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS             | RM |
|-----|-----------|----|-----------------------|---------------------------|----|
| 1   | SB1090101 | 1  | DT 电磁铁安装板             | DT SOLENOID SETTING PLATE |    |
| 2   | 062500816 | 2  | 螺钉 M5X8               | SCREW PAN M5X8            |    |
| 3   | SB1179001 | 1  | 电磁铁缓冲垫圈               | SOLENOID CUSHION          |    |
| 4   | 017401015 | 1  | 螺栓 M4X10              | BOLT M4X10                |    |
| 5   | 021400306 | 1  | 六角螺母 M4               | NUT 3 M4                  |    |
| 6   | SB7244001 | 1  | 平垫圈 L4                | WASHER_PLAIN_L_4          |    |
| 7   | SB0787101 | 1  | 电磁铁罩                  | SOLENOID COVER            |    |
| 8   | 060400516 | 2  | 螺钉 M4X5               | SCREW BIND M4X5           |    |
|     |           |    | <用于KE-430HX、BE-438HX> | <For KE-430HX, BE-438HX>  |    |
| 9   | SB1192001 | 2  | 松线杆套筒                 | TENSION RELEASE BAR BUSH  |    |
| 10+ | SB1089001 | 1  | 松线杆                   | TENSION RELEASE BAR       |    |
|     |           |    | <用于KE-430HS、BE-438HS> | <For KE-430HS, BE-438HS>  |    |
| 10+ | SB4487001 | 1  | 松线杆                   | TENSION RELEASE BAR       |    |
| 11  | SB4486001 | 1  | 松线弹簧                  | TENSION RELEASE SPRING    |    |

KE-430HX, 430HS/BE-438HX, 438HS-406



N. 夹线装置（用于KE-430HX-3、-K、-1） / Thread nipper mechanism (For KE-430HX-3,-K,-1)

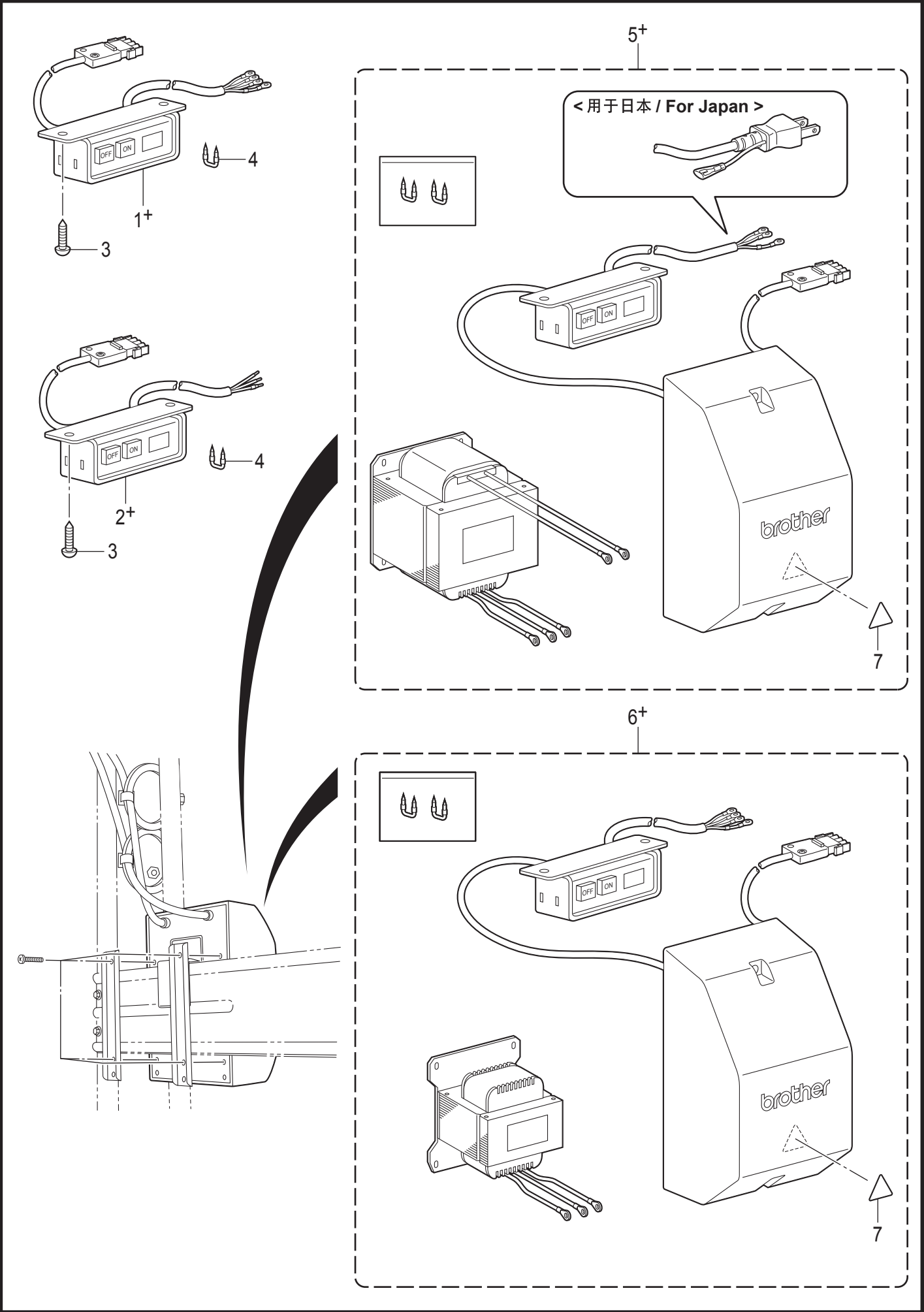
| 参照号 | 零部件序号     | 数量 | 零部件名称      | NAME OF PARTS                | RM |
|-----|-----------|----|------------|------------------------------|----|
| 1   | SB0709001 | 1  | 夹线板D组件     | THREAD NIPPER D ASSY         |    |
| 2   | SA3333001 | 1  | 轴位螺钉       | THREAD NIPPER SHOULDER SCREW |    |
| 3   | SA4329001 | 1  | 夹线圈套       | COLLAR,THREAD NIPPER         |    |
| 4   | SA4330001 | 1  | 垫片         | SPACER,THREAD NIPPER         |    |
| 5   | SB0954001 | 1  | 夹线板 U      | THREAD NIPPER U              |    |
| 6   | SA3342101 | 1  | 轴位螺钉 6-0.9 | SHOULDER SCREW,6-0.9         |    |
| 7   | SA3343101 | 1  | 弹簧挂钩板      | PLATE,SPRING HOOK            |    |
| 8   | 062300416 | 2  | 螺钉 M3X4    | SCREW PAN M3X4               |    |
| 9   | SB3847001 | 2  | 平垫圈 M3     | WASHER_PLAIN_M_3             |    |
| 10  | SA4465001 | 1  | 弹簧         | SPRING EXTENSION             |    |
| 11  | SB6798001 | 1  | 夹线杠杆       | TN-DRIVING LEVER             |    |
| 12  | SB6787001 | 1  | 切线滚轮 H     | COLLAR TR-TRIMMER H          |    |
| 13  | SB6788001 | 1  | 切线滚轮轴      | COLLAR SHAFT                 |    |
| 14  | 012400436 | 1  | 螺钉 M4X4    | SET SCREW SOCKET (FT) M4X4   |    |
| 15  | 110367001 | 1  | 垫圈 8       | WASHER, PLAIN SPECIAL 8      |    |
| 16  | SB6799101 | 1  | 夹线连接板 R    | TN-CONNECTING PLATE R        |    |
| 17  | SB0705101 | 1  | 轴位螺钉       | LINK SHOULDER SCREW          |    |
| 18  | 109239002 | 1  | 弹簧垫圈       | WASHER, WAVE SPRING          |    |
| 19  | SB6800001 | 1  | 夹线杠杆弹簧     | TN-DRIVING LEVER SPRING      |    |
| 20  | 018400636 | 2  | 螺栓 M4X6    | BOLT SOCKET M4X6             |    |
| 21  | SB6801001 | 1  | 夹线连接板组件 F  | TN-CONNECTING PLATE ASSY F   |    |



P1. 控制箱 / Control box

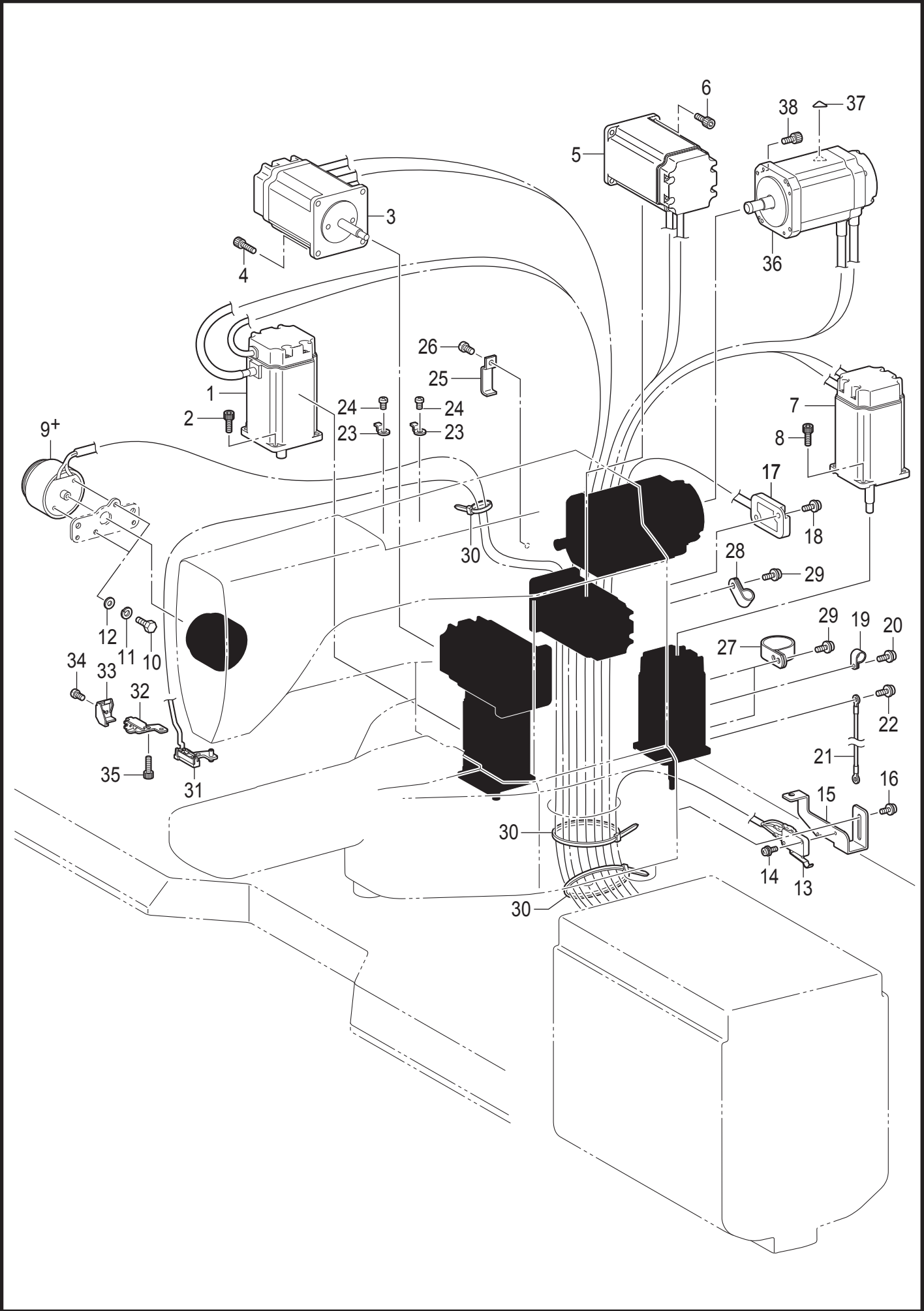
| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS                              | RM |
|-----|-----------|----|-----------------------|--------------------------------------------|----|
| 1   | SB6703001 | 1  | 前箱盖                   | FRONT BOX COVER                            |    |
| 2   | SA9547001 | 4  | 螺钉(带垫圈) M4X20DA       | SCREW PAN(S/P WASHER)M4X20                 |    |
| 3   | SB6704001 | 1  | 后箱盖                   | REAR BOX COVER                             |    |
| 4   | SB8096001 | 1  | 感电标签 36 X 150         | LABEL ELECTRICAL SHOCK 36X150              |    |
| 5   | SA9547001 | 4  | 螺钉(带垫圈) M4X20DA       | SCREW PAN(S/P WASHER)M4X20                 |    |
| 6   | SB6770101 | 1  | 主基板组件                 | MAIN PCB ASSY                              |    |
| 7   | 0A4400806 | 4  | 螺钉(带垫圈) M4X8DA        | SCREW PAN (S/P WASHER) M4X8                |    |
| 8   | 0A4402006 | 5  | 螺钉(带垫圈) M4X20DA       | SCREW PAN (S/P WASHER) M4X20               |    |
| 9   | SB6780101 | 1  | 电源马达基板组件              | POWER SUPPLY MOTOR PCB ASSY                |    |
| 10  | SB3275001 | 2  | 玻璃保险器 10A             | GLASS FUSE 10A-50T100H                     |    |
| 11  | 0A4400806 | 2  | 螺钉(带垫圈) M4X8DA        | SCREW PAN (S/P WASHER) M4X8                |    |
| 12  | 0A4402006 | 7  | 螺钉(带垫圈) M4X20DA       | SCREW PAN (S/P WASHER) M4X20               |    |
| 13  | SB4587301 | 1  | 踏板控制器组件 (US)          | TREADLE UNIT-US                            |    |
| 14  | 0A5501206 | 4  | 螺钉(带垫圈) M5X12         | SCREW PAN (S/P WASHER) M5X12               |    |
| 15  | S37060001 | 1  | 接地标记                  | LABEL GROUNDING                            |    |
| 16  | SA9914001 | 1  | 感电标签 25 X 28          | LABEL ELECTRICAL SHOCK 25 X 28             |    |
| 17  | SA9893001 | 4  | 螺栓 M8X65              | BOLT M8X65                                 |    |
| 18  | 021080206 | 8  | 螺母 M8                 | NUT 2 M8                                   |    |
| 19  | 025080336 | 4  | 平垫圈 L8                | WASHER PLAIN L 8                           |    |
| 20  | 028080246 | 4  | 弹簧垫圈 2-8              | WASHER SPRING 2-8                          |    |
|     |           |    | <用于单相 230V><br><用于欧洲> | <For single phase 230V AC><br><For Europe> |    |
| 21  | SB7077001 | 1  | CE滤波器组件TYPE5          | CE FILTER UNIT TYPE5                       |    |
| 22  | SB7074001 | 1  | CE滤波器座罩               | CE FILTER CASE                             |    |
| 23  | SB7065001 | 1  | CE过滤基板组件              | CE FILTER PCB ASSY TYPE3                   |    |

P2.控制箱 / Control box



P2. 控制箱 / Control box

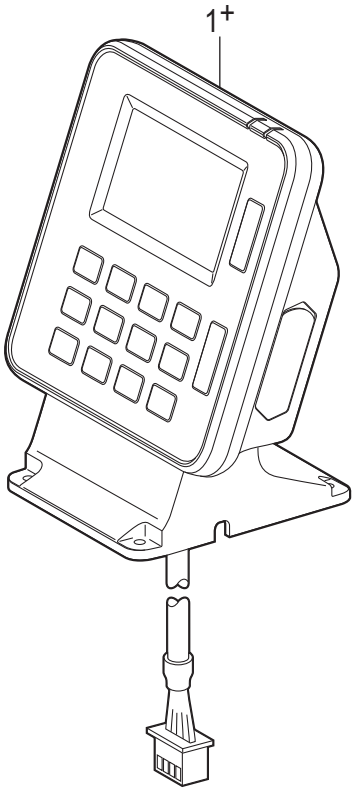
| 参照号 | 零部件序号                | 数量 | 零部件名称                                       | NAME OF PARTS                                                                                | RM |
|-----|----------------------|----|---------------------------------------------|----------------------------------------------------------------------------------------------|----|
| 1+  | SA9616001            | 1  | <用于三相 200V><br><用于日本><br>电源开关组件 SJT         | <For Three phase 200V AC><br><For Japan><br>POWER SWITCH ASSY SJT                            |    |
| 1+  | SA9831001            | 1  | <用于三相 220V><br><用于北美和墨西哥><br>电源开关组件 SJT#2   | <For Three phase 220V AC><br><For USA, Canada and Mexico><br>POWER SWITCH ASSY SJT#2         |    |
| 2+  | SA9535001            | 1  | <用于单相 220V><br><用于亚洲、欧洲及一般出口><br>电源开关组件 CCC | <For Single phase 220V AC><br><For Asia, General and Europe><br>POWER SUPPLY SWITCH ASSY CCC |    |
| 2+  | BMP3010-0000001-3S00 | 1  | <用于单相 220V><br><用于中国><br>电源开关 220V          | <For Single phase 220V AC><br><For China><br>POWER SWITCH 220V                               |    |
| 3   | S03816001            | 2  | 圆头木螺钉 M4.5X16                               | WOOD SCREW M4.5X16                                                                           |    |
| 4   | 200190001            | 2  | U形卡钉                                        | STAPLE 10X20                                                                                 |    |
| 5+  | SB1229001            | 1  | <用于单相 100V><br><用于日本><br>变压器箱备品组件           | <For Single phase 100V><br><For Japan><br>TRANS BOX 100V SUPPLY                              |    |
| 5+  | BMP3010-0000000-2ST1 | 1  | <用于北美和墨西哥><br>变压器箱                          | <For USA, Canada and Mexico><br>TRANSFORMER BOX                                              |    |
| 6+  | BMP3010-0000000-3ST4 | 1  | <用于三相 380V><br><用于亚洲和一般出口><br>变压器箱          | <For Three phase 380V><br><For General and Asia><br>TRANSFORMER BOX                          |    |
| 6+  | BMP3010-0000001-3ST4 | 1  | <用于中国><br>变压器箱                              | <For China><br>TRANSFORMER BOX                                                               |    |
| 6+  | BMP3010-0000000-4ST4 | 1  | <用于三相 400V><br><用于欧洲><br>变压器箱               | <For Three phase 400V><br><For Europe><br>TRANSFORMER BOX                                    |    |
| 7   | SA9914001            | 1  | 感电标签 25 X 28                                | LABEL ELECTRICAL SHOCK 25 X 28                                                               |    |



Q. 电气部品和马达装置 / Power supply equipment and motor mechanism

| 参照号 | 零部件序号     | 数量 | 零部件名称                 | NAME OF PARTS                | RM |
|-----|-----------|----|-----------------------|------------------------------|----|
| 1   | SB7170001 | 1  | 脉冲马达 STP-X            | PULSE MOTOR STP-X            |    |
| 2   | 018401036 | 4  | 螺栓 M4X10              | BOLT SOCKET M4X10            |    |
| 3   | SB7171001 | 1  | 脉冲马达 STP-Y            | PULSE MOTOR STP-Y            |    |
| 4   | 018400836 | 4  | 螺栓 M4X8               | BOLT SOCKET M4X8             |    |
| 5   | SB7172001 | 1  | 脉冲马达 STP-P            | PULSE MOTOR STP-P            |    |
| 6   | 018401036 | 4  | 螺栓 M4X10              | BOLT SOCKET M4X10            |    |
| 7   | SB4276101 | 1  | 脉冲马达组件 Y              | PULSE MOTOR ASSY Y           |    |
| 8   | 018401036 | 4  | 螺栓 M4X10              | BOLT SOCKET M4X10            |    |
|     |           |    | <用于KE-430HS、BE-438HS> | <For KE-430HS, BE-438HS>     |    |
| 9+  | SB4499001 | 1  | 松线电磁铁                 | TENSION RELEASE SOLENOID     |    |
|     |           |    | <用于KE-430HX、BE-438HX> | <For KE-430HX, BE-438HX>     |    |
| 9+  | SB0794101 | 1  | 电子夹线电磁铁               | DT TENSION SOLENOID          |    |
| 10  | 017400802 | 2  | 螺栓 M4X8               | BOLT M4X8                    |    |
| 11  | 028040246 | 2  | 弹簧垫圈 2-4              | WASHER SPRING 2-4            |    |
| 12  | SB3848001 | 2  | 平垫圈 M4                | WASHER_PLAIN_M_4             |    |
| 13  | SB1650101 | 1  | 机头开关组件                | SWITCH ASSY MACHINE HEAD     |    |
| 14  | 0A5301605 | 2  | 螺钉(带垫圈) M3X16DB       | SCREW PAN (S/P WASHER) M3X16 |    |
| 15  | SB6818101 | 1  | 机头开关安装板               | SWITCH MACHINE HEAD PLATE    |    |
| 16  | 0A5401006 | 1  | 螺钉(带垫圈) M4X10DB       | SCREW PAN (S/P WASHER) M4X10 |    |
| 17  | SB6750001 | 1  | 备用机头检出器复合件 430H       | H-DETECTOR SUPPLY ASSY 430H  |    |
| 18  | 0A5401006 | 2  | 螺钉(带垫圈) M4X10DB       | SCREW PAN (S/P WASHER) M4X10 |    |
| 19  | S10243000 | 1  | 尼龙夹 NK-3N             | CORD HOLDER:NK-3N            |    |
| 20  | 0A5401006 | 1  | 螺钉(带垫圈) M4X10DB       | SCREW PAN (S/P WASHER) M4X10 |    |
| 21  | SB4261001 | 1  | 接地线                   | GROUND WIRE HEAD-BOX         |    |
| 22  | 0A5401006 | 1  | 螺钉(带垫圈) M4X10DB       | SCREW PAN (S/P WASHER) M4X10 |    |
| 23  | SB4637101 | 2  | 电线夹                   | CORD HOLDER                  |    |
| 24  | 062400616 | 2  | 螺钉 M4X6               | SCREW PAN M4X6               |    |
| 25  | SA1394101 | 1  | 线夹 U3                 | CORD HOLDER U3               |    |
| 26  | 062500816 | 1  | 螺钉 M5X8               | SCREW PAN M5X8               |    |
| 27  | S11817000 | 2  | 线夹 NK-18N             | CLAMP, NK-18N                |    |
| 28  | 552907000 | 1  | 电线夹 #10               | CORD HOLDER #10              |    |
| 29  | 0A5401006 | 3  | 螺钉(带垫圈) M4X10DB       | SCREW PAN (S/P WASHER) M4X10 |    |
| 30  | SB4155001 | 3  | 线夹                    | BAND                         |    |
| 31  | SB6825201 | 1  | LED 组件                | LED ASSY                     |    |
| 32  | SB6826001 | 1  | LED 安装板               | LED SETTING PLATE            |    |
| 33  | SB6829001 | 1  | LED 盖                 | LED COVER                    |    |
| 34  | 062300416 | 1  | 螺钉 M3X4               | SCREW PAN M3X4               |    |
| 35  | 018400836 | 1  | 螺栓 M4X8               | BOLT SOCKET M4X8             |    |
| 36  | SB6830001 | 1  | 马达组件 430              | MOTOR 430 ASSY               |    |
| 37  | SB0827001 | 1  | 高温标志                  | HIGH TEMP LABEL              |    |
| 38  | 018402036 | 4  | 螺栓 M4X20              | BOLT SOCKET M4X20            |    |

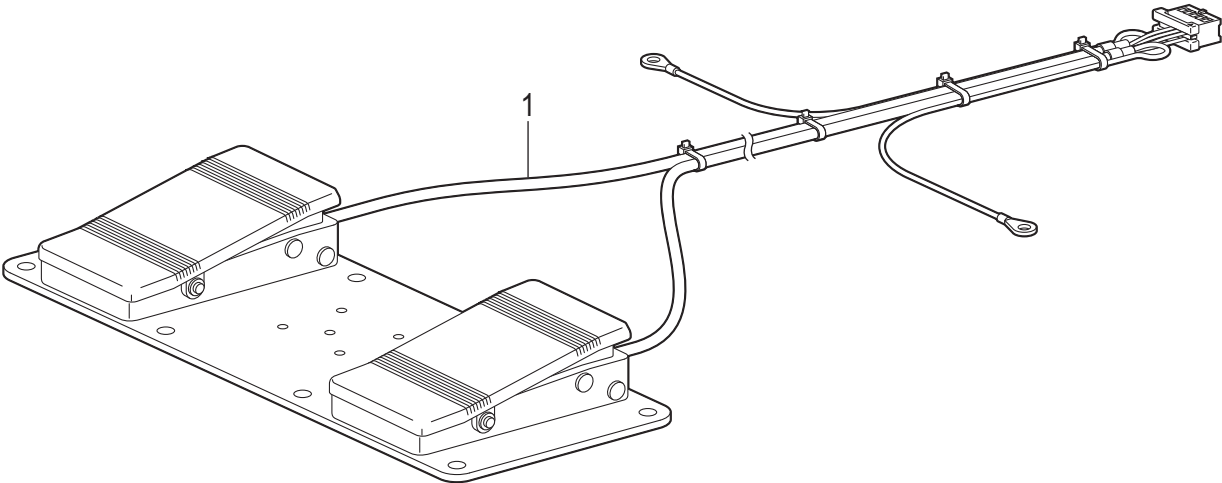
KE-430HX, 430HS/BE-438HX, 438HS-515



# R. 操作盘 / Operation panel

| 参照号 | 零部件序号     | 数量 | 零部件名称               | NAME OF PARTS                                       | RM |
|-----|-----------|----|---------------------|-----------------------------------------------------|----|
| 1+  | SB6767101 | 1  | <用于一般出口><br>操作盘组件   | <For General export><br>OPERATION PANEL ASSY        |    |
| 1+  | SB6767102 | 1  | <用于一般出口以外><br>操作盘组件 | <Except for General export><br>OPERATION PANEL ASSY |    |

KE-430HX, 430HS/BE-438HX, 438HS-530

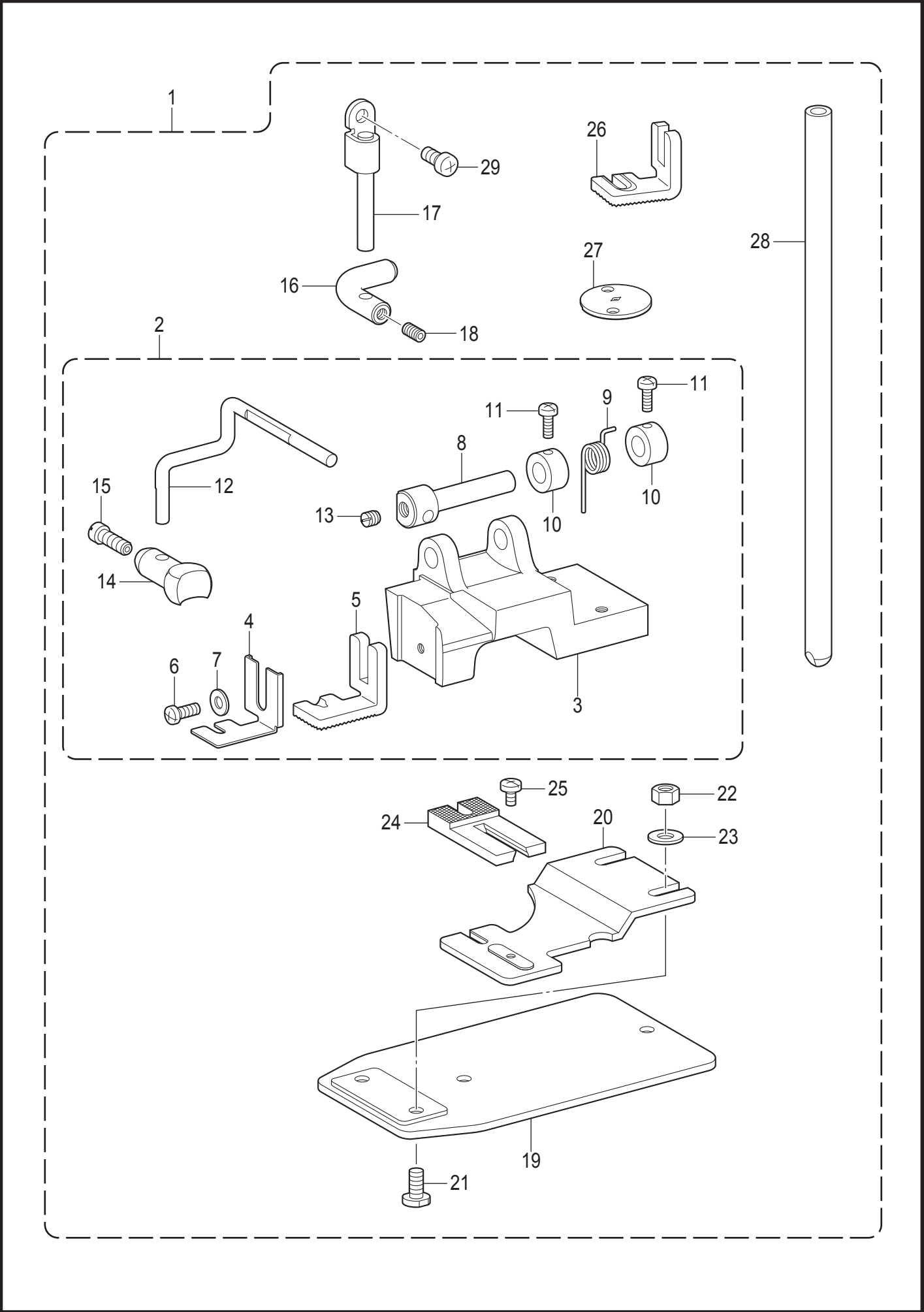


## S. 踏板关系 (选购件) / Foot switch pedal mechanism (Option parts)

| 参照号 | 零部件序号     | 数量 | 零部件名称    | NAME OF PARTS        | RM |
|-----|-----------|----|----------|----------------------|----|
| 1   | SB7552001 | 1  | 2连脚踏开关组件 | 2-PEDAL FOOT SW ASSY |    |

KE-430HX, 430HS/BE-438HX, 438HS-651

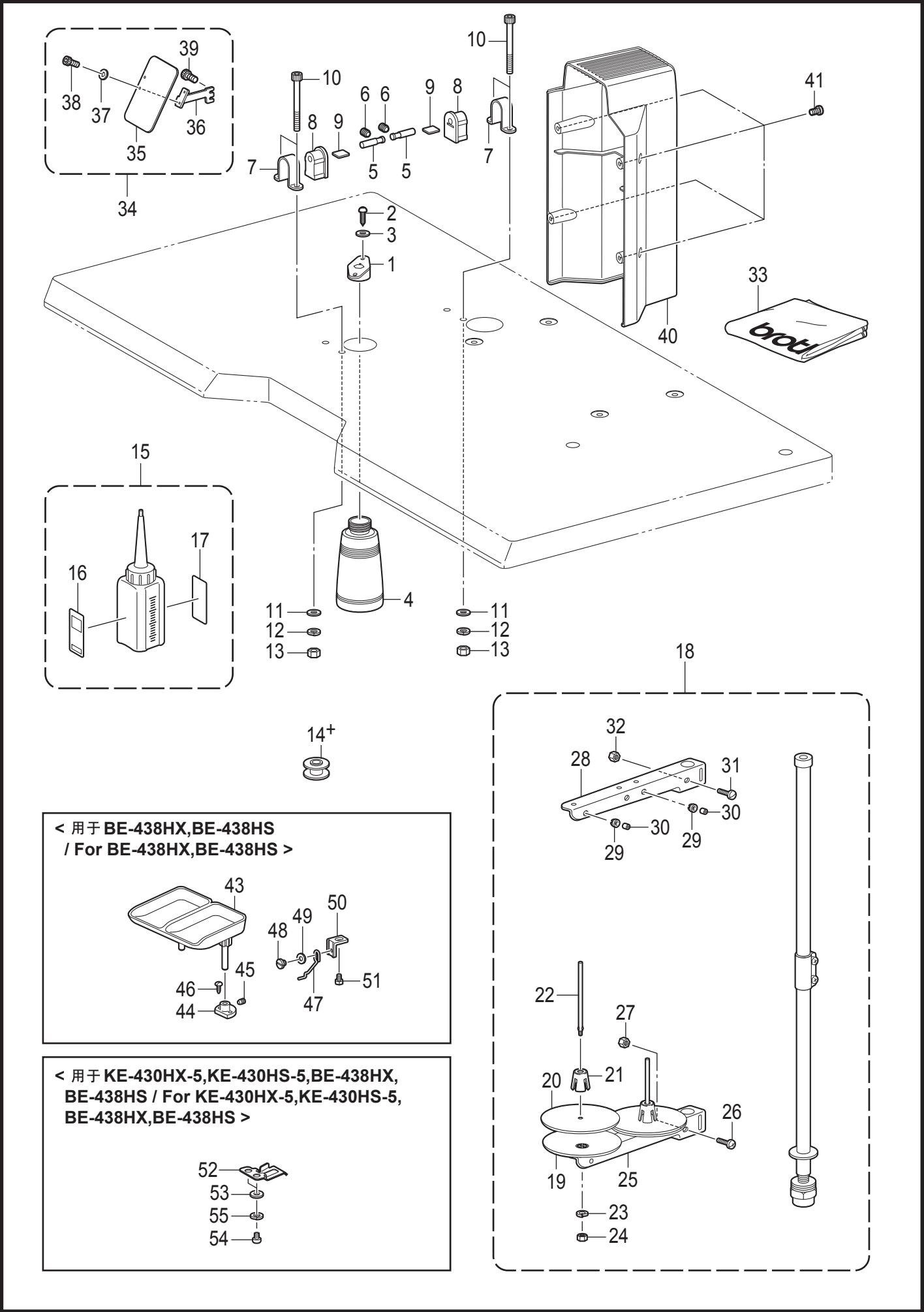
T. 辅助装置 (用于BE-438H的选购零部件) / Auxiliary device (Option parts for BE-438H)



## T. 辅助装置(用于BE-438H的选购零部件) / Auxiliary device (Option parts for BE-438H)

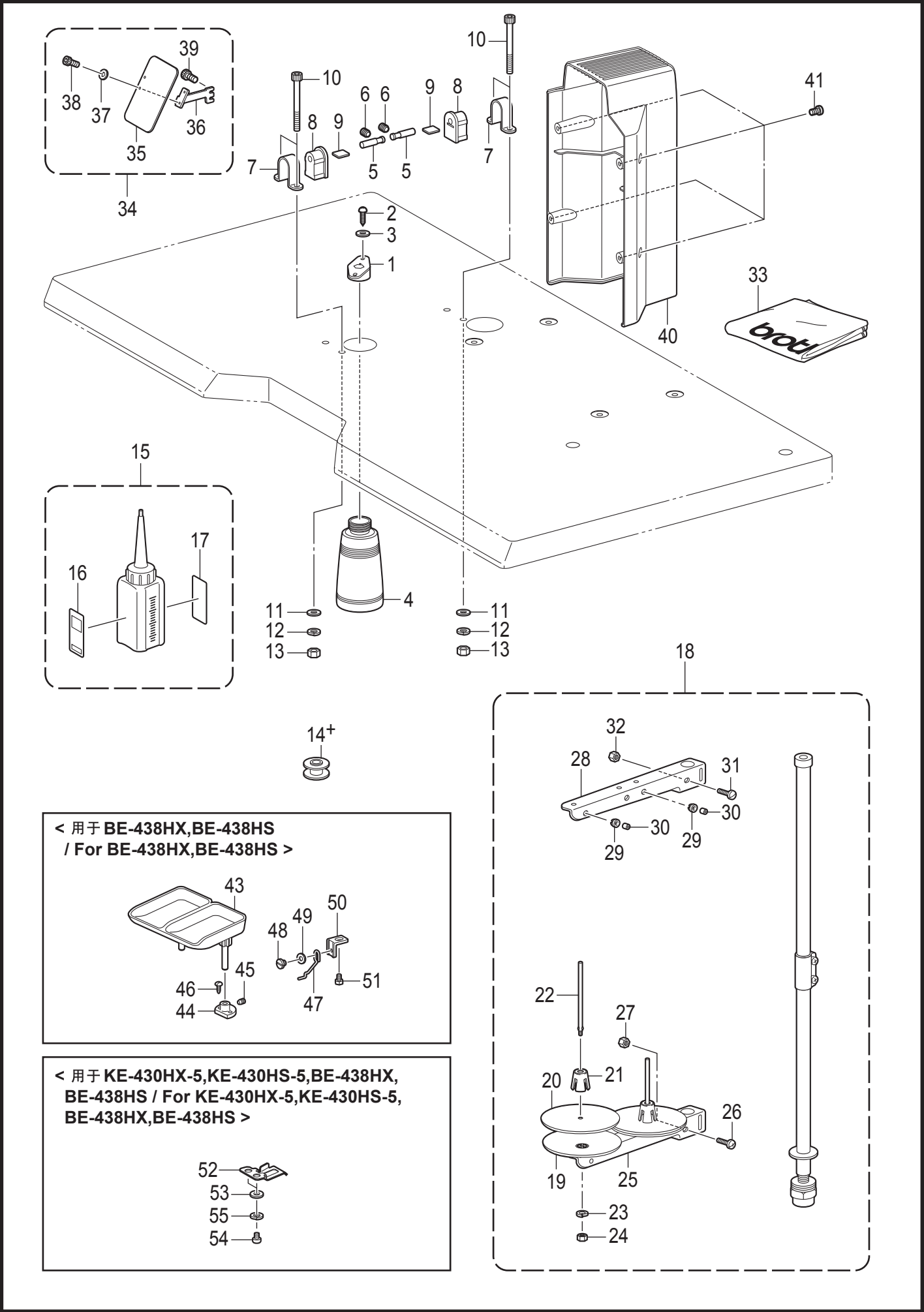
| 参照号 | 零部件序号     | 数量 | 零部件名称          | NAME OF PARTS                 | RM |
|-----|-----------|----|----------------|-------------------------------|----|
| 1   | SB7900001 | 1  | 有柄钮扣装置组件 438H  | SHANK DEVICE SET 438H         |    |
| 2   | 142689409 | 1  | 有柄钮扣夹体组件       | SHANK BUTTON CLAMP BRAC. ASSY |    |
| 3   | 154684009 | 1  | 有柄钮扣夹体         | SHANK BUTTON CLAMP BRACKET    |    |
| 4   | 142677101 | 1  | 钮夹 A           | BUTTON CLAMP, A               |    |
| 5   | 142678201 | 1  | 钮夹 B           | BUTTON CLAMP B                |    |
| 6   | 062670812 | 1  | 螺钉 SM3.57-40X8 | SCREW PAN SM3.57-40X8         |    |
| 7   | 102707002 | 1  | 垫圈             | WASHER                        |    |
| 8   | 142681001 | 1  | 扣夹轴            | BUTTON CLAMP STUD             |    |
| 9   | 154685001 | 1  | 弹簧             | SPRING                        |    |
| 10  | 142706001 | 2  | 紧圈             | SET SCREW COLLAR              |    |
| 11  | 062670712 | 2  | 螺钉 SM3.57-40X7 | SCREW PAN SM3.57-40X7         |    |
| 12  | 154686001 | 1  | 扣夹臂            | BUTTON CLAMP ARM              |    |
| 13  | 013719412 | 1  | 固定螺钉 SM4.76    | SET SCREW, (CP) SM4.76        |    |
| 14  | 142680001 | 1  | 扣夹             | BUTTON CLAMP                  |    |
| 15  | 120990001 | 1  | 螺钉 SM4.37-40X8 | SET SCREW, (CP) SM4.37-40X8   |    |
| 16  | 154695001 | 1  | 扣夹松开           | CLAMP OPENER                  |    |
| 17  | SB1564001 | 1  | 扣夹松开轴          | STUD                          |    |
| 18  | 014680432 | 1  | 螺钉 SM4.37-40X4 | SET SCREW SOCKET SM4.37-40X4  |    |
| 19  | SB7899001 | 1  | 送扣板台           | SHANK FEED PLATE BASE         |    |
| 20  | 156336101 | 1  | 送扣板            | SHANK BUTTON FEED PLATE       |    |
| 21  | 154713001 | 2  | 螺钉 SM4.76      | SCREW, SM4.76                 |    |
| 22  | 021710212 | 2  | 螺母 SM4.76-32   | NUT 2 SM4.76-32               |    |
| 23  | SB3329001 | 2  | 垫圈 5           | WASHER 5                      |    |
| 24  | 142686101 | 1  | 放料台 S          | CLOTH RECEIVER, S             |    |
| 25  | 060670512 | 1  | 螺钉 SM3.57-40X5 | SCREW BIND SM3.57-40X5        |    |
| 26  | S03641101 | 1  | 钮夹 D           | BOTTON CLAMP, D               |    |
| 27  | SB0715001 | 1  | 针孔板 1.6GM      | NEEDLE HOLE PLATE 1.6GM       |    |
| 28  | SB1645101 | 1  | 针杆 SD          | NEEDLE BAR SD                 |    |
| 29  | 062500616 | 1  | 螺钉 M5X6        | SCREW PAN M5X6                |    |

BE-438HX, 438HS-944



## Z. 附件 / Accessories

| 参照号 | 零部件序号     | 数量 | 零部件名称                              | NAME OF PARTS                                 | RM |
|-----|-----------|----|------------------------------------|-----------------------------------------------|----|
| 1   | SB6278001 | 1  | 废油盖座                               | DUST OILER SUPPORT                            |    |
| 2   | 032461606 | 2  | 木螺钉 M4.5X16                        | WOOD SCREW ROUND 2 M4.5X16                    |    |
| 3   | SB3849001 | 2  | 平垫圈 M5                             | WASHER_PLAIN_M_5                              |    |
| 4   | 114486002 | 1  | 油壶                                 | OILER                                         |    |
| 5   | SA3384101 | 2  | 机头支承销                              | PIN                                           |    |
| 6   | 012060636 | 2  | 螺钉 M6X6                            | SET SCREW SOCKET (FT) M6X6                    |    |
| 7   | SA3385001 | 2  | 头部铰链座                              | HINGE HOLDER                                  |    |
| 8   | SA3395001 | 2  | 橡皮铰链                               | RUBBER CUSHION                                |    |
| 9   | SA3392101 | 2  | 垫片                                 | SPACER                                        |    |
| 10  | 018066036 | 4  | 螺栓 M6X60                           | BOLT SOCKET M6X60                             |    |
| 11  | 025060336 | 4  | 平垫圈 L6                             | WASHER PLAIN L 6                              |    |
| 12  | 028060246 | 4  | 弹簧垫圈 2-6                           | WASHER SPRING 2-6                             |    |
| 13  | 021060106 | 4  | 螺母 M6                              | NUT 1 M6                                      |    |
| 14+ | P.51      | 1  | <用于北美和墨西哥以外><br>梭芯                 | <Except for USA, Canada and Mexico><br>BOBBIN |    |
|     |           |    | <用于北美和墨西哥>                         | <For USA, Canada and Mexico>                  |    |
| 14+ | P.51      | 1  | <用于KE-430HX-5、KE-430HS-5><br>梭芯 LA | <For KE-430HX-5, KE-430HS-5><br>BOBBIN LA     |    |
| 15  | SA8239301 | 1  | 油壶组件                               | OIL TANK ASSY                                 |    |
| 16  | SB1270001 | 1  | 油壶警示标贴 英文                          | OIL WARNING LABEL EN                          |    |
| 17  | SB1271101 | 1  | 油壶警示标贴 日文                          | OIL WARNING LABEL JP                          |    |
| 18  | SB3928101 | 1  | 线架组件 2DR                           | COTTON STAND ASSY 2DR                         |    |
| 19  | S51283001 | 2  | 垫圈                                 | SPOOL STAND BASE                              |    |
| 20  | SB4114001 | 2  | 线盘软垫                               | SPOOL MAT                                     |    |
| 21  | S51282101 | 2  | 线轴缓冲架                              | SPOOL CUSHION                                 |    |
| 22  | 150179002 | 2  | 线轴 B                               | SPOOL SHAFT B                                 |    |
| 23  | SB4117001 | 2  | 弹簧垫圈 2-5                           | WASHER SPRING 2-5                             |    |
| 24  | SB4119001 | 2  | 螺母 M5                              | NUT 2 M5                                      |    |
| 25  | S02778022 | 1  | 插线架 2                              | SPOOL HOLDER 2                                |    |
| 26  | S37037002 | 1  | 螺钉(带垫圈) M5X32                      | SCREW PAN (S/P WASHER) M5X32                  |    |
| 27  | SB4118001 | 1  | 螺母 M5                              | NUT 1 M5                                      |    |
| 28  | S02787002 | 1  | 过线架 2                              | THREAD HANGER 2                               |    |
| 29  | 150183000 | 2  | 过线管套                               | THREAD HANGER BASE                            |    |
| 30  | 142990001 | 2  | 过线架上过线管                            | THREAD BUSH                                   |    |
| 31  | SB4120001 | 1  | 螺钉(带垫圈) M5X14                      | SCREW PAN(S/P WASHER) M5X14                   |    |
| 32  | SB4118001 | 1  | 螺母 M5                              | NUT 1 M5                                      |    |
| 33  | 144226001 | 1  | 机头罩                                | HEAD COVER                                    |    |
| 34  | SB1069301 | 1  | 护眼板组件                              | EYE GUARD SET                                 |    |
| 35  | SB4169001 | 1  | 护眼板                                | EYE GUARD                                     |    |
| 36  | SB1067101 | 1  | 护眼板支架                              | EYE GUARD HOLDER                              |    |
| 37  | 026030233 | 2  | 垫圈 M3                              | WASHER PLAIN M 3                              |    |
| 38  | 018300636 | 2  | 螺栓 M3X6                            | BOLT SOCKET M3X6                              |    |
| 39  | 018401036 | 2  | 螺栓 M4X10                           | BOLT SOCKET M4X10                             |    |
| 40  | SB7693101 | 1  | 后盖组件                               | REAR COVER ASSY                               |    |
| 41  | 062500816 | 4  | 螺钉 M5X8                            | SCREW PAN M5X8                                |    |

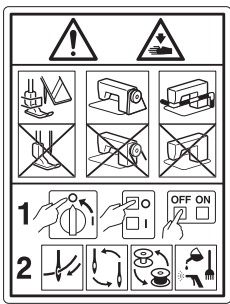


# Z. 附件 / Accessories

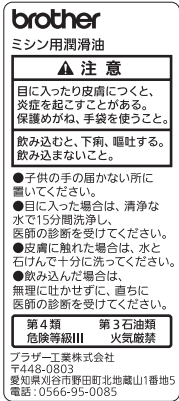
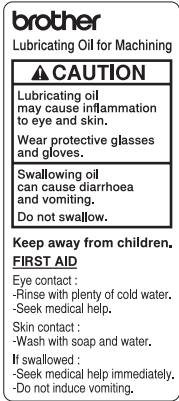
| 参照号 | 零部件序号     | 数量 | 零部件名称                          | NAME OF PARTS                                    | RM |
|-----|-----------|----|--------------------------------|--------------------------------------------------|----|
| 43  | S18641109 | 1  | <用于BE-438HX、BE-438HS><br>袋装钮扣盘 | <For BE-438HX, BE-438HS><br>BUTTON TRAY WITH BAG |    |
| 44  | 153843009 | 1  | 钮扣盘底座                          | BUTTON TRAY HOLDER                               |    |
| 45  | 014760632 | 1  | 螺钉 SM5.95-28X6                 | SET SCREW SOCKET SM5.95-28X6                     |    |
| 46  | 0B1351606 | 2  | 木螺钉 M3.5X16                    | WOOD SCREW FLAT M3.5X16                          |    |
| 47  | SB1272001 | 1  | 钮扣上浮弹簧 A                       | SPRING A                                         |    |
| 48  | 110215002 | 1  | 螺钉 SM3.57                      | SCREW SM3.57                                     |    |
| 49  | 026350132 | 1  | 平垫圈 SM3.5                      | WASHER PLAIN S M3.5                              |    |
| 50  | SB1273001 | 1  | 弹簧支架                           | SPRING SUPPORT                                   |    |
| 51  | 146360002 | 1  | 螺栓 SM4.76X7                    | BOLT, SM4.76X7                                   |    |
|     |           |    | <用于KE-430HX-5>                 | <For KE-430HX-5>                                 |    |
|     |           |    | <用于KE-430HS-5>                 | <For KE-430HS-5 >                                |    |
|     |           |    | <用于BE-438HX、BE-438HS>          | <For BE-438HX, BE-438HS>                         |    |
| 52  | SB0713001 | 1  | 底线压簧                           | BOBBIN THREAD CLAMP SPRING                       |    |
| 53  | SB3847001 | 2  | 平垫圈 M3                         | WASHER_PLAIN_M_3                                 |    |
| 54  | 062300416 | 2  | 螺钉 M3X4                        | SCREW PAN M3X4                                   |    |
| 55  | 028030246 | 2  | 弹簧垫圈 2-3                       | WASHER SPRING 2-3                                |    |

KE-430HX, 430HS/BE-438HX, 438HS-910

# Wa. 警告标签 / Warning labels

| 警告标签 / Warning labels                                                               | 零部件名称 / Name of parts                            | 尺寸 / Size(mm) | 零部件序号 / Code |
|-------------------------------------------------------------------------------------|--------------------------------------------------|---------------|--------------|
|     | 感电标签 36 X 150<br>Label electrical shock 36 X 150 | 36 X 150      | SB8096-001   |
|    | 感电标签 25 X 28<br>Label electrical shock 25 X 28   | L=28.5        | SA9914-001   |
|   | 操作注意标签<br>Label caution                          | 56 X 43       | SA9826-001   |
|  | 警告标记<br>Injury mark                              | L=16          | SA9957-001   |
|  | 警告标记<br>Injury mark                              | L=25          | SA9957-002   |
|  | 高温标志<br>High temp label                          | L=16          | SB0827-001   |
|  | 接地标记<br>Label, grounding                         | φ 12          | S37060-001   |

# Wa. 警告标签 / Warning labels

| 警告标签 / Warning labels                                                              | 零部件名称 / Name of parts                  | 尺寸 / Size(mm) | 零部件序号 / Code |
|------------------------------------------------------------------------------------|----------------------------------------|---------------|--------------|
|   | 注意符号 15 X 15<br>Mark attention 15 X 15 | 15 X 15       | SB7911-001   |
|   | 油壶警示标签贴 日文<br>Oil warning label JP     | 68 X 30       | SB1271-101   |
|  | 油壶警示标签贴 英文<br>Oil warning label EN     | 68 X 30       | SB1270-001   |

Sp. 不同规格零部件一览表 (KE-430HX, KE-430HS, BE-438HX, BE-438HS) / Different parts list (KE-430HX, KE-430HS, BE-438HX, BE-438HS)

KE-430HX, KE-430HS、BE-438HX, BE-438HS 还预备了下列零部件, 请在不同领域中使用。

The following are standard gauge parts according to each specification.

| KE-430HX, KE-430HS                                                                                                                    |                                                                                                                    |                                        |                                  |                                      | BE-438HX, BE-438HS          |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|--------------------------------------|-----------------------------|
| 规格<br>Spec.<br><br>名称<br>Part name                                                                                                    | -05<br>厚料/Heavy-<br>weight materials                                                                               | -03<br>中厚料/Medium-<br>weight materials | -0K<br>针织品<br>/Knitted materials | -01<br>薄料<br>/Light-weight materials |                             |
| (K-37)<br>针孔板<br>Needle hole plate<br>               | ( $\phi$ 2.4)<br>SB7057-001                                                                                        | ( $\phi$ 1.6)<br>SB7056-001            | ( $\phi$ 1.6)<br>SB7058-001      | ( $\phi$ 1.6)<br>SB7056-001          | ( $\phi$ 1.6)<br>SB7062-001 |
| (F-25)<br>梭芯套组件<br>Bobbin case<br>assy<br>           | 152690-501 < B >                                                                                                   | 159610-401 < A >                       | 159610-401 < A >                 |                                      | 159610-401 < A >            |
|                                                                                                                                       | S59221-301 < LC >                                                                                                  |                                        |                                  |                                      |                             |
|                                                                                                                                       | 夹线簧<br>Tension<br>spring<br>      | 154340-101                             | 154339-101                       | 154339-101                           | 154339-101                  |
|                                                                                                                                       | S48664-001 < AN >                                                                                                  |                                        |                                  |                                      |                             |
|                                                                                                                                       | 螺钉<br>Screw<br>                   | 154341-001                             | 154341-001                       | 154341-001                           | 154341-001                  |
|                                                                                                                                       |                                                                                                                    | S16492-101                             |                                  |                                      |                             |
|                                                                                                                                       | 防空转弹簧<br>Anti-spin<br>spring<br> | SA4315-001                             | SA4315-001                       | SA4315-001                           | SA4315-001                  |
|                                                                                                                                       |                                                                                                                    | S15667-001                             |                                  |                                      |                             |
| (F-26, Z-14)<br>梭芯<br>Bobbin<br>                   | 159613-051                                                                                                         | 159613-051                             | 159613-051                       |                                      | 159613-051                  |
|                                                                                                                                       | S15665-001 < LA >                                                                                                  |                                        |                                  |                                      |                             |
| (F-24)<br>中旋梭组件<br>Shuttle hook<br>assy, w/box<br> | SA1882-001 < B >                                                                                                   | SA1881-001 < A >                       | SA1881-001 < A >                 |                                      | SA1881-001 < A >            |
|                                                                                                                                       | SA8197-101 < LH >                                                                                                  |                                        |                                  |                                      |                             |
| (F-23)<br>外旋梭<br>Shuttle race<br>base<br>          | 152686-201 < B >                                                                                                   | 152682-201 < A >                       |                                  |                                      | 152682-201 < A >            |
| (H-6)<br>挑线弹簧<br>Thread<br>take-up spring<br>      | SA6193-301< C >                                                                                                    | SA9058-001                             |                                  |                                      | SA9058-001                  |

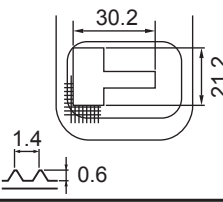
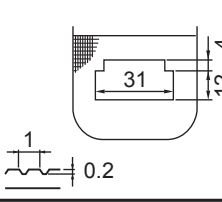
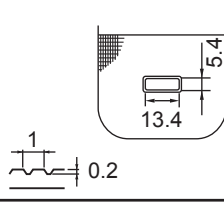
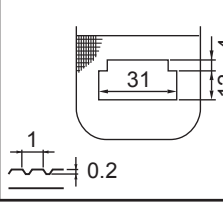
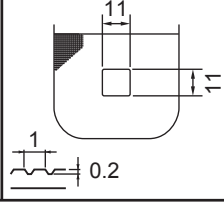
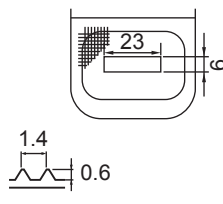
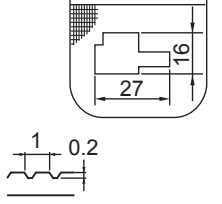
Sp. 不同规格零部件一览表 (KE-430HX, KE-430HS, BE-438HX, BE-438HS) / Different parts list (KE-430HX, KE-430HS, BE-438HX, BE-438HS)

| KE-430HX, KE-430HS                                                                                                                 |                                      |                                        |                                  |                                      | BE-438HX, BE-438HS               |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|----------------------------------|--------------------------------------|----------------------------------|
| 规格<br>Spec.                                                                                                                        | -05<br>厚料/Heavy-<br>weight materials | -03<br>中厚料/Medium-<br>weight materials | -0K<br>针织品<br>/Knitted materials | -01<br>薄料<br>/Light-weight materials |                                  |
| 名称<br>Part name                                                                                                                    |                                      |                                        |                                  |                                      |                                  |
| (H-29)<br>针杆线导向<br>Needle bar thread<br>guide<br> | SB1059-001 < A >                     | SB1060-001 < B >                       |                                  |                                      | SB1060-001 < B >                 |
| (B-58)<br>机针<br>Needle<br>                        | S37928-019<br>DP X 17 NY < # 19 >    | 107415-014<br>DP X 5 < # 14 >          | 107415-009<br>DP X 5 < # 9 >     | 107415-014<br>DP X 5 < # 14 >        | S37928-012<br>DP X 17NY < # 12 > |

◎标准的压脚和送布板的尺寸表示如下。(实际的缝纫范围是在内框向内1.5mm的内侧处)

◎Standard sizes for work clamps and feed plates are as follows:

(The actual sewing area has 1.5 mm margin on every size; inside the lines which the dimensions indicate.)

| KE-430HX, KE-430HS                                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | BE-438HX, BE-438HS                                                                    |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 规格<br>Spec.                                                                                                            | -05<br>厚料/Heavy-<br>weight materials                                                | -03<br>中厚料/Medium-<br>weight materials                                              | -0K<br>针织品<br>/Knitted materials                                                     | -01<br>薄料<br>/Light-weight materials                                                  |                                                                                       |
| 名称<br>Part name                                                                                                        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| (C1-61, 62)<br>压脚<br>Work clamp<br> | R                                                                                   | 153608-101                                                                          | 152777-001                                                                           | S49695-001                                                                            | 152777-001                                                                            |
|                                                                                                                        | L                                                                                   | 154527-001                                                                          | 152778-001                                                                           | S49694-001                                                                            | 152778-001                                                                            |
| (C1-63)<br>送布板<br>Feed plate<br>    | SB7742-001                                                                          | SB7743-001<br>(下沉式)<br>(Submerged-type)                                             | SB7744-001                                                                           | SB7743-001<br>(下沉式)<br>(Submerged-type)                                               | SB7745-001                                                                            |
|                                                                                                                        |  |  |  |  |  |
| 规格<br>Spec.                                                                                                            | -05<br>劳动布/Denim<br>< 用于亚洲<br>/ For Asia >                                          | -05<br>劳动布/Denim<br>< 用于美国<br>/ For USA >                                           |                                                                                      |                                                                                       |                                                                                       |
| 名称<br>Part name                                                                                                        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| (C1-61, 62)<br>压脚<br>Work clamp<br> | R                                                                                   | 152781-001                                                                          | 153201-001                                                                           |                                                                                       |                                                                                       |
|                                                                                                                        | L                                                                                   | 152782-001                                                                          | 153202-001                                                                           |                                                                                       |                                                                                       |
| (C1-63)<br>送布板<br>Feed plate<br>    | SB7746-001                                                                          | SB7747-001                                                                          |                                                                                      |                                                                                       |                                                                                       |
|                                                                                                                        |  |  |                                                                                      |                                                                                       |                                                                                       |

## Ga. 工模具一览表 (KE-430HX, KE-430HS) / Gauge parts list (KE-430HX, KE-430HS)

<工模具零部件>

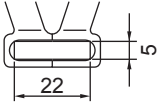
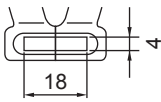
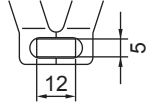
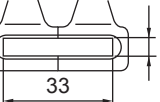
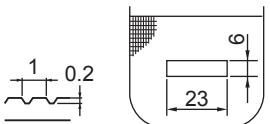
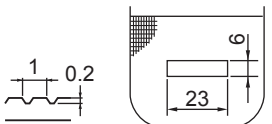
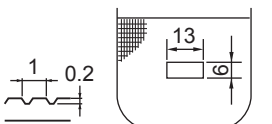
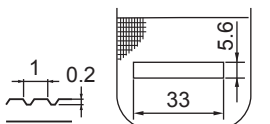
可选购的工模具零部件如下列所示。

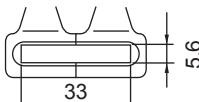
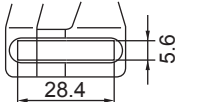
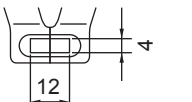
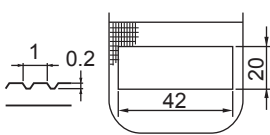
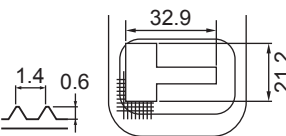
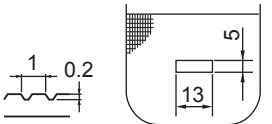
压脚和送布板是上下配套的。

< Gauge parts >

The following are provided as optional gauge parts.

Each work clamp pair and presser pair are used in combination with the feed plate directly below them.

|                                 | 1                                                                                                      | 2                                                                                                      | 3                                                                                                       | 4                                                                                                         |
|---------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| R                               | 153201-001 < PL >                                                                                      | 152777-001                                                                                             | 153203-001 < PS >                                                                                       | S33747-001 (30 mm)                                                                                        |
| L                               | 153202-001 < PL >                                                                                      | 152778-001                                                                                             | 153204-001 < PS >                                                                                       | S33748-001 (30 mm)                                                                                        |
| (C1-61, 62)<br>压脚<br>Work clamp |                       |                       |                       |                        |
| (C1-63)<br>送布板<br>Feed plate    | SA3612-101 < PL ><br> | SA3612-101 < PL ><br> | SA3613-101 < PS ><br> | SA3615-101 (30 mm)<br> |

|                                 | 5                                                                                                                                      | 6                                                                                                          | 7                                                                                                                                   |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| R                               | S33747-001 (30 mm)                                                                                                                     | S00906-001 (1 inch)                                                                                        | 152779-001<br>(针织品/ For knitted materials)                                                                                          |
| L                               | S33748-001 (30 mm)                                                                                                                     | S00907-001 (1 inch)                                                                                        | 152780-001<br>(针织品 / For knitted materials)                                                                                         |
| (C1-61, 62)<br>压脚<br>Work clamp |                                                      |                          |                                                  |
| (C1-63)<br>送布板<br>Feed plate    | SA3618-101 (30 mm)<br>(下沉式)<br>(Submerged-type)<br> | SA3614-101 (1 inch)<br> | SA3608-101<br>(针织品 / For knitted materials)<br> |

Ga. 工模具一览表 (KE-430HX, KE-430HS) / Gauge parts list (KE-430HX, KE-430HS)

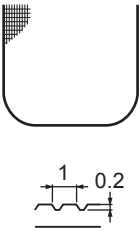
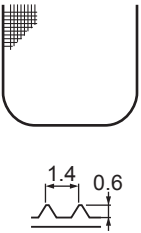
|                                                   |   | 8                                                        | 9                                                                     | 10                                                       | 11                                                       |
|---------------------------------------------------|---|----------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
|                                                   | R | S46774-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | S46774-001 < VBTA1 ><br>(竖线结・下沉 / For vertical bar tacking/submerged) | SA2230-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | SA2233-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) |
|                                                   | L | S46773-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | S46773-001 < VBTA1 ><br>(竖线结・下沉 / For vertical bar tacking/submerged) | SA2229-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | SA2232-001 < VBTA1 ><br>(竖线结 / For vertical bar tacking) |
| (C1-61, 62)<br>压脚<br>Work clamp                   |   |                                                          |                                                                       |                                                          |                                                          |
| (C1-63)<br>送布板<br>Feed plate                      |   | SA3619-101 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | SA3621-101 < VBTA1 ><br>(竖线结・下沉 / For vertical bar tacking/submerged) | SA3620-101 < VBTA1 ><br>(竖线结 / For vertical bar tacking) | SA3622-101 < VBTA1 ><br>(竖线结 / For vertical bar tacking) |
|                                                   |   |                                                          |                                                                       |                                                          |                                                          |
| (C1-61, 62)<br>压脚<br>Work clamp<br><br>螺栓<br>Bolt |   | 156006-001* S59892-001*                                  | 156006-001* S59892-001*                                               | S59909-001* S59892-001*                                  | S59909-001* S59892-001*                                  |
|                                                   |   |                                                          |                                                                       |                                                          |                                                          |

|                                                   |   | 12                                                    | 13                                                      | 14                                                      | 15                                       |
|---------------------------------------------------|---|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------------|
|                                                   | R | S46777-001 < KIA1 ><br>(菊花孔 / For circular stitching) | S46780-001 < HMA1 ><br>(月牙结 / For crescent bar tacking) | SA2236-001 < HMA1 ><br>(月牙结 / For crescent bar tacking) | SA4195-001<br>(压脚半成品 / Work clamp blank) |
|                                                   | L | S46776-001 < KIA1 ><br>(菊花孔 / For circular stitching) | S46779-001 < HMA1 ><br>(月牙结 / For crescent bar tacking) | SA2235-001 < HMA1 ><br>(月牙结 / For crescent bar tacking) | SA4196-001<br>(压脚半成品 / Work clamp blank) |
| (C1-61, 62)<br>压脚<br>Work clamp                   |   |                                                       |                                                         |                                                         |                                          |
| (C1-63)<br>送布板<br>Feed plate                      |   | SA3623-101 < KIA1 ><br>(菊花孔 / For circular stitching) | SA3624-101 < HMA1 ><br>(月牙结 / For crescent bar tacking) | SA3625-101 < HMA1 ><br>(月牙结 / For crescent bar tacking) | 参照下一页<br>Refer to following page.        |
|                                                   |   |                                                       |                                                         |                                                         |                                          |
| (C1-61, 62)<br>压脚<br>Work clamp<br><br>螺栓<br>Bolt |   | 156006-001* S59892-001*                               | 156006-001* S59892-001*                                 | S59909-001* S59892-001*                                 | S59909-001* S59892-001*                  |
|                                                   |   |                                                       |                                                         |                                                         |                                          |

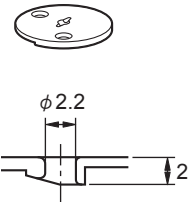
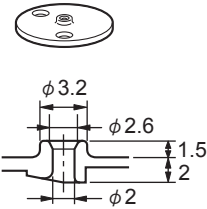
注有 \* 号的零件在订货时、请务必左、右各订购2个。

As for the parts of part codes marked with \*, please order two pieces for each part as a right and left pair.

Ga. 工模具一览表 (KE-430HX, KE-430HS, BE-438HX, BE-438HS) / Gauge parts list (KE-430HX, KE-430HS, BE-438HX, BE-438HS)

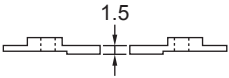
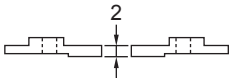
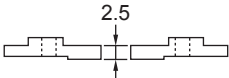
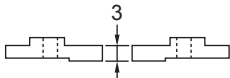
| (C1-63)<br>送布板<br>半成品<br>Feed plate<br>blank | SA3626-101<br>(有滚花 /<br>With lozenge)                                             | SA3627-101<br>(有滚花 /<br>With lozenge)                                             | SA3817-101<br>(无滚花 /<br>Without lozenge)                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                              |  |  |  |

(K-37) 其他针孔板 / For other needle hole plate

| KE-430HX, KE-430HS                                                                | BE-438HX, BE-438HS                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SB6957-001                                                                        | SB7243-001                                                                        |
|  |  |

(E) 选购件 (BE-438HX, BE-438HS) / Option parts (BE-438HX, BE-438HS)

钮扣夹垫 / Button clamp spacer

| AL                                                                                  | SB7753-001 (E-39) | BL                                                                                  | SB7755-001 (E-36) | CL                                                                                   | SB7757-001 (E-41) | DL                                                                                    | SB7759-001 (E-43) |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|-------------------|
| AR                                                                                  | SB7754-001 (E-40) | BR                                                                                  | SB7756-001 (E-37) | CR                                                                                   | SB7758-001 (E-42) | DR                                                                                    | SB7760-001 (E-44) |
|  |                   |  |                   |  |                   |  |                   |

| CODE      | REF.NO  | Page | CODE      | REF.NO  | Page | CODE      | REF.NO  | Page | CODE      | REF.NO  | Page |
|-----------|---------|------|-----------|---------|------|-----------|---------|------|-----------|---------|------|
| 004300513 | A - 18  | 2    |           | N - 20  | 32   | 060670512 | T - 25  | 44   | 100136001 | H - 22  | 22   |
| 011679312 | E - 16  | 16   | 018400836 | C1 - 33 | 8    | 062300416 | A - 23  | 2    | 100360003 | K - 38  | 26   |
| 012060536 | C1 - 14 | 8    |           | D - 30  | 14   |           | K - 35  | 26   | 100402004 | H - 31  | 22   |
|           | C1 - 38 | 8    |           | G - 6   | 20   |           | K - 43  | 26   | 102630001 | B - 35+ | 4    |
|           | D - 7   | 14   |           | L - 14  | 28   |           | N - 8   | 32   |           | D - 3   | 14   |
|           | D - 21  | 14   |           | Q - 4   | 38   |           | Q - 34  | 38   | 102707002 | T - 7   | 44   |
|           | D - 25  | 14   |           | Q - 35  | 38   |           | Z - 54  | 48   | 104525103 | H - 38+ | 22   |
|           | D - 32  | 14   | 018401036 | C1 - 16 | 8    | 062300616 | C2 - 15 | 12   | 105234003 | E - 8   | 16   |
|           | L - 2   | 28   |           | Q - 2   | 38   |           | F - 7   | 18   | 107415009 | B - 58+ | 6    |
| 012060636 | B - 38  | 4    |           | Q - 6   | 38   | 062400416 | C1 - 30 | 8    |           | Sp      | 52   |
|           | D - 44  | 14   |           | Q - 8   | 38   |           | C2 - 7  | 12   | 107415014 | B - 58+ | 6    |
|           | F - 20  | 18   |           | Z - 39  | 46   |           | E - 25  | 16   |           | Sp      | 52   |
|           | F - 40  | 18   | 018401636 | B - 43  | 6    | 062400616 | G - 10  | 20   | 107606101 | H - 38+ | 22   |
|           | H - 40  | 22   | 018402036 | Q - 38  | 38   |           | G - 12  | 20   | 107744001 | D - 35  | 14   |
|           | K - 2   | 26   | 018500836 | C1 - 45 | 8    |           | G - 17  | 20   |           | E - 6   | 16   |
|           | K - 11  | 26   | 018501036 | F - 22  | 18   |           | G - 21  | 20   | 109239002 | A - 21  | 2    |
|           | K - 25  | 26   | 018501436 | C1 - 12 | 8    |           | G - 24  | 20   |           | N - 18  | 32   |
|           | Z - 6   | 46   | 018501636 | B - 5   | 4    |           | G - 31  | 20   | 110215002 | Z - 48  | 48   |
| 012300336 | C1 - 4  | 8    | 021060106 | Z - 13  | 46   |           | K - 15  | 26   | 110367001 | B - 26  | 4    |
|           | E - 49  | 16   | 021060306 | K - 18  | 26   |           | Q - 24  | 38   |           | C1 - 35 | 8    |
| 012400436 | B - 56  | 6    | 021080206 | P1 - 18 | 34   | 062400816 | E - 29  | 16   |           | D - 42  | 14   |
|           | C1 - 21 | 8    | 021300306 | C2 - 9  | 12   | 062401016 | A - 13  | 2    |           | K - 9   | 26   |
|           | F - 35  | 18   | 021400216 | D - 37  | 14   |           | B - 51  | 6    |           | N - 15  | 32   |
|           | H - 17  | 22   | 021400306 | H - 26  | 22   |           | G - 19  | 20   | 114486002 | Z - 4   | 46   |
|           | K - 6   | 26   |           | M - 5   | 30   |           | J - 8   | 24   | 115147001 | E - 14  | 16   |
|           | N - 14  | 32   | 021500316 | H - 18  | 22   |           | L - 25  | 28   | 115148201 | E - 13  | 16   |
| 012500536 | B - 10  | 4    | 021710212 | T - 22  | 44   | 062402016 | A - 27  | 2    | 116922201 | H - 32  | 22   |
|           | B - 18  | 4    | 025040136 | A - 28  | 2    | 062500616 | B - 29  | 4    | 117934001 | A - 2   | 2    |
|           | B - 33  | 4    | 025060236 | A - 34  | 2    |           | H - 2   | 22   | 118550001 | A - 40  | 2    |
|           | B - 37  | 4    |           | C1 - 28 | 8    |           | J - 3   | 24   | 120990001 | T - 15  | 44   |
|           | B - 47  | 6    | 025060336 | Z - 11  | 46   |           | T - 29  | 44   | 140004001 | B - 41  | 4    |
|           | C1 - 5  | 8    | 025080336 | P1 - 19 | 34   | 062500816 | A - 11  | 2    | 140647101 | G - 16  | 20   |
|           | C1 - 22 | 8    | 026030136 | F - 6   | 18   |           | C1 - 58 | 10   | 142677101 | T - 4   | 44   |
|           | C1 - 39 | 8    | 026030233 | Z - 37  | 46   |           | G - 14  | 20   | 142678201 | T - 5   | 44   |
|           | C1 - 48 | 8    | 026040236 | C2 - 6  | 12   |           | J - 5   | 24   | 142680001 | T - 14  | 44   |
|           | C1 - 52 | 8    |           | C2 - 17 | 12   |           | M - 2   | 30   | 142681001 | T - 8   | 44   |
|           | D - 15  | 14   | 026050136 | C1 - 60 | 10   |           | Q - 26  | 38   | 142686101 | T - 24  | 44   |
|           | D - 17  | 14   | 026350132 | Z - 49  | 48   |           | Z - 41  | 46   | 142689409 | T - 2   | 44   |
|           | L - 7   | 28   | 028030246 | K - 44  | 26   | 062501216 | A - 15  | 2    | 142706001 | T - 10  | 44   |
|           | L - 12  | 28   |           | Z - 55  | 48   |           | C2 - 25 | 12   | 142990001 | Z - 30  | 46   |
|           | L - 17  | 28   | 028040246 | Q - 11  | 38   |           | G - 27  | 20   | 144226001 | Z - 33  | 46   |
| 013719412 | T - 13  | 44   | 028050246 | B - 30  | 4    | 062670412 | H - 43  | 22   | 144458001 | B - 45  | 6    |
| 014680432 | T - 18  | 44   |           | C1 - 59 | 10   | 062670712 | T - 11  | 44   | 145446001 | H - 13  | 22   |
| 014680632 | E - 3   | 16   | 028060246 | Z - 12  | 46   | 062670812 | T - 6   | 44   |           | H - 24  | 22   |
| 014760632 | E - 9   | 16   | 028080246 | P1 - 20 | 34   | 081003670 | F - 53  | 18   | 145446021 | H - 33  | 22   |
|           | Z - 45  | 48   | 032461606 | Z - 2   | 46   | 081005070 | L - 23  | 28   | 146354001 | E - 11  | 16   |
| 017061006 | F - 50  | 18   | 047250642 | E - 22  | 16   | 081008070 | G - 33  | 20   | 146354002 | C1 - 44 | 8    |
| 017400802 | C2 - 18 | 12   | 047402042 | B - 16  | 4    | 081040070 | F - 38  | 18   | 146360002 | Z - 51  | 48   |
|           | Q - 10  | 38   | 048040342 | L - 19  | 28   | 0A4400806 | P1 - 7  | 34   | 146994001 | E - 12  | 16   |
| 017401015 | G - 4   | 20   |           | L - 22  | 28   |           | P1 - 11 | 34   | 149547000 | B - 52  | 6    |
|           | M - 4   | 30   |           | L - 27  | 28   | 0A4402006 | P1 - 8  | 34   | 150179002 | Z - 22  | 46   |
| 017711412 | E - 10  | 16   | 048060342 | K - 10  | 26   |           | P1 - 12 | 34   | 150183000 | Z - 29  | 46   |
| 018061236 | K - 16  | 26   | 048060346 | C1 - 36 | 8    | 0A5301605 | Q - 14  | 38   | 151968001 | E - 4   | 16   |
| 018061636 | C1 - 27 | 8    |           | D - 23  | 14   | 0A5401006 | B - 54+ | 6    | 151969001 | E - 5   | 16   |
|           | D - 39  | 14   |           | D - 43  | 14   |           | B - 57  | 6    | 152682201 | Sp      | 51   |
| 018062036 | A - 33  | 2    | 048080342 | C1 - 10 | 8    |           | C2 - 19 | 12   | 152684101 | F - 5   | 18   |
|           | D - 27  | 14   |           | D - 6   | 14   |           | Q - 16  | 38   | 152686201 | Sp      | 51   |
| 018063036 | C1 - 7  | 8    |           | D - 19  | 14   |           | Q - 18  | 38   | 152690501 | Sp      | 51   |
| 018066036 | Z - 10  | 46   |           | L - 11  | 28   |           | Q - 20  | 38   | 152777001 | Sp      | 52   |
| 018300636 | Z - 38  | 46   | 048090142 | B - 32  | 4    |           | Q - 22  | 38   |           | Ga      | 53   |
| 018301036 | H - 15  | 22   | 048200142 | F - 47  | 18   |           | Q - 29  | 38   | 152778001 | Sp      | 52   |
| 018400636 | G - 22  | 20   | 048280142 | B - 20  | 4    | 0A5501206 | P1 - 14 | 34   |           | Ga      | 53   |
|           | K - 20  | 26   | 060400516 | M - 8   | 30   | 0B1351606 | Z - 46  | 48   | 152779001 | Ga      | 53   |

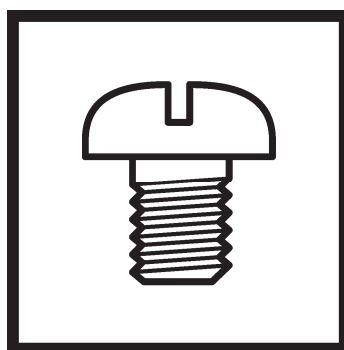
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| 152780001            | Ga      | 53   | S20878000 | A - 6   | 2    | SA3208301 | C1 - 43 | 8    | SA4199001 | F - 3   | 18   |
| 152781001            | Sp      | 52   | S23337001 | A - 8   | 2    | SA3231002 | C1 - 37 | 8    | SA4315001 | Sp      | 51   |
| 152782001            | Sp      | 52   | S23651001 | B - 3   | 4    |           | D - 24  | 14   | SA4329001 | N - 3   | 32   |
| 152881101            | H - 39  | 22   |           | B - 7   | 4    | SA3238401 | F - 52  | 18   | SA4330001 | N - 4   | 32   |
| 152883000            | H - 41  | 22   |           | B - 25  | 4    | SA3250001 | H - 1   | 22   | SA4333001 | H - 3   | 22   |
| 152884001            | H - 42  | 22   |           | F - 28  | 18   | SA3256001 | H - 21  | 22   | SA4354001 | K - 27  | 26   |
| 153057101            | C1 - 64 | 10   |           | F - 31  | 18   | SA3262202 | A - 16  | 2    | SA4465001 | N - 10  | 32   |
| 153201001            | Sp      | 52   |           | F - 34  | 18   | SA3263101 | A - 17  | 2    | SA4518001 | K - 30  | 26   |
|                      | Ga      | 53   |           | F - 42  | 18   | SA3264101 | A - 19  | 2    | SA4519001 | K - 31  | 26   |
| 153202001            | Sp      | 52   |           | F - 44  | 18   | SA3265101 | A - 20  | 2    | SA6190001 | H - 11  | 22   |
|                      | Ga      | 53   | S25235001 | B - 24  | 4    | SA3266201 | A - 22  | 2    | SA6193301 | Sp      | 51   |
| 153203001            | Ga      | 53   | S25310101 | A - 30  | 2    | SA3274101 | F - 15  | 18   | SA6391001 | H - 4   | 22   |
| 153204001            | Ga      | 53   |           | K - 39  | 26   | SA3299001 | J - 2   | 24   | SA6397001 | K - 33+ | 26   |
| 153608101            | Sp      | 52   | S32263001 | A - 3+  | 2    | SA3324101 | K - 22  | 26   | SA6448301 | F - 21  | 18   |
| 153827001            | E - 2   | 16   |           | A - 7   | 2    | SA3326101 | K - 24  | 26   | SA8197101 | Sp      | 51   |
| 153830100            | E - 1   | 16   | S33747001 | Ga      | 53   | SA3327501 | K - 26  | 26   | SA8239301 | Z - 15  | 46   |
| 153843009            | Z - 44  | 48   | S33748001 | Ga      | 53   | SA3333001 | N - 2   | 32   | SA8680101 | A - 26  | 2    |
| 154339101            | Sp      | 51   | S37037002 | Z - 26  | 46   | SA3334001 | K - 33+ | 26   | SA9058001 | Sp      | 51   |
| 154340101            | Sp      | 51   | S37060001 | A - 39  | 2    | SA3342101 | N - 6   | 32   | SA9191001 | F - 14  | 18   |
| 154341001            | Sp      | 51   |           | P1 - 15 | 34   | SA3343101 | N - 7   | 32   | SA9287201 | E - 17  | 16   |
| 154527001            | Sp      | 52   |           | Wa      | 49   | SA3384101 | Z - 5   | 46   | SA9288001 | E - 18  | 16   |
| 154684009            | T - 3   | 44   | S37928012 | B - 58+ | 6    | SA3385001 | Z - 7   | 46   | SA9291001 | E - 21  | 16   |
| 154685001            | T - 9   | 44   |           | Sp      | 52   | SA3392101 | Z - 9   | 46   | SA9294001 | E - 26  | 16   |
| 154686001            | T - 12  | 44   | S37928019 | B - 58+ | 6    | SA3395001 | Z - 8   | 46   | SA9296001 | E - 30  | 16   |
| 154695001            | T - 16  | 44   |           | Sp      | 52   | SA3423101 | C1 - 57 | 10   | SA9297001 | E - 31  | 16   |
| 154713001            | T - 21  | 44   | S42446001 | C1 - 24 | 8    | SA3424101 | C1 - 40 | 8    | SA9298001 | E - 33  | 16   |
| 155559021            | L - 18  | 28   |           | C1 - 26 | 8    | SA3425101 | C1 - 41 | 8    | SA9299001 | E - 34  | 16   |
| 156006001            | Ga      | 54   |           | K - 12  | 26   | SA3426001 | C1 - 42 | 8    | SA9300001 | E - 35  | 16   |
| 156336101            | T - 20  | 44   | S46773001 | Ga      | 54   | SA3428101 | C1 - 51 | 8    | SA9302001 | E - 28  | 16   |
| 159610401            | Sp      | 51   | S46774001 | Ga      | 54   | SA3441101 | D - 14  | 14   | SA9303201 | E - 50  | 16   |
| 159613051            | Sp      | 51   | S46776001 | Ga      | 54   |           | L - 6   | 28   | SA9304001 | E - 51  | 16   |
| 159805001            | H - 34  | 22   | S46777001 | Ga      | 54   | SA3449101 | L - 5   | 28   | SA9305001 | E - 52  | 16   |
| 200190001            | P2 - 4  | 36   | S46779001 | Ga      | 54   | SA3458101 | L - 20  | 28   | SA9306001 | E - 53  | 16   |
| 552907000            | Q - 28  | 38   | S46780001 | Ga      | 54   | SA3459101 | L - 24  | 28   | SA9307001 | E - 54  | 16   |
| BMP3010-0000000-2ST1 |         |      | S47307001 | F - 16  | 18   | SA3464001 | L - 28  | 28   | SA9308001 | E - 55  | 16   |
| P2 - 5+              |         | 36   | S48664001 | Sp      | 51   | SA3538001 | C1 - 17 | 8    | SA9396001 | F - 8   | 18   |
| BMP3010-0000000-3ST4 |         |      | S49694001 | Sp      | 52   |           | C1 - 19 | 8    | SA9397001 | F - 12  | 18   |
| P2 - 6+              |         | 36   | S49695001 | Sp      | 52   |           | C2 - 26 | 12   | SA9535001 | P2 - 2+ | 36   |
| BMP3010-0000000-4ST4 |         |      | S49998001 | E - 15  | 16   |           | K - 40  | 26   | SA9547001 | P1 - 2  | 34   |
| P2 - 6+              |         | 36   | S50384101 | H - 28  | 22   | SA3608101 | Ga      | 53   |           | P1 - 5  | 34   |
| BMP3010-0000001-3S00 |         |      | S51282101 | Z - 21  | 46   | SA3612101 | Ga      | 53   | SA9616001 | P2 - 1+ | 36   |
| P2 - 2+              |         | 36   | S51283001 | Z - 19  | 46   | SA3613101 | Ga      | 53   | SA9650101 | B - 34+ | 4    |
| BMP3010-0000001-3ST4 |         |      | S55481001 | F - 49  | 18   | SA3614101 | Ga      | 53   | SA9826001 | A - 38  | 2    |
| P2 - 6+              |         | 36   | S59221301 | Sp      | 51   | SA3615101 | Ga      | 53   |           | Wa      | 49   |
| S00480000            | B - 53+ | 6    | S59321001 | E - 45  | 16   | SA3618101 | Ga      | 53   | SA9831001 | P2 - 1+ | 36   |
| S00705001            | K - 32  | 26   | S59892001 | C2 - 28 | 12   | SA3619101 | Ga      | 54   | SA9893001 | P1 - 17 | 34   |
| S00906001            | Ga      | 53   |           | Ga      | 54   | SA3620101 | Ga      | 54   | SA9914001 | P1 - 16 | 34   |
| S00907001            | Ga      | 53   | S59909001 | C2 - 27 | 12   | SA3621101 | Ga      | 54   |           | P2 - 7  | 36   |
| S01694101            | E - 38  | 16   |           | Ga      | 54   | SA3622101 | Ga      | 54   |           | Wa      | 49   |
| S02778022            | Z - 25  | 46   | SA1229101 | H - 20+ | 22   | SA3623101 | Ga      | 54   | SA9917001 | G - 8   | 20   |
| S02787002            | Z - 28  | 46   | SA1303101 | G - 32  | 20   | SA3624101 | Ga      | 54   | SA9957001 | A - 35  | 2    |
| S03641101            | T - 26  | 44   | SA1394101 | G - 11  | 20   | SA3625101 | Ga      | 54   |           | Wa      | 49   |
| S03816001            | P2 - 3  | 36   |           | Q - 25  | 38   | SA3626101 | Ga      | 55   | SA9957002 | A - 36  | 2    |
| S10243000            | B - 53+ | 6    | SA1881001 | Sp      | 51   | SA3627101 | Ga      | 55   |           | Wa      | 49   |
|                      | Q - 19  | 38   | SA1882001 | Sp      | 51   | SA3628001 | D - 33  | 14   | SB0705101 | D - 10  | 14   |
| S11817000            | Q - 27  | 38   | SA2229001 | Ga      | 54   | SA3629001 | D - 34  | 14   |           | K - 17  | 26   |
| S15665001            | Sp      | 51   | SA2230001 | Ga      | 54   | SA3631001 | D - 40  | 14   |           | N - 17  | 32   |
| S15667001            | Sp      | 51   | SA2232001 | Ga      | 54   | SA3817101 | Ga      | 55   | SB0709001 | N - 1   | 32   |
| S16492101            | Sp      | 51   | SA2233001 | Ga      | 54   | SA4130001 | C1 - 49 | 8    | SB0713001 | K - 41  | 26   |
| S18641109            | Z - 43  | 48   | SA2235001 | Ga      | 54   | SA4143001 | H - 20+ | 22   |           | Z - 52  | 48   |
| S20356001            | D - 5   | 14   | SA2236001 | Ga      | 54   | SA4146101 | H - 23  | 22   | SB0714201 | K - 28+ | 26   |
|                      | D - 18  | 14   | SA2422001 | B - 40  | 4    | SA4195001 | Ga      | 54   | SB0715001 | T - 27  | 44   |
|                      | L - 10  | 28   | SA2626001 | C1 - 50 | 8    | SA4196001 | Ga      | 54   | SB0787101 | M - 7   | 30   |

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| SB0788001 | A - 1    | 2    | SB1182101 | H - 16  | 22   | SB4443101 | H - 37+  | 22   | SB6791101 | K - 13   | 26   |
| SB0794101 | Q - 9+   | 38   | SB1192001 | M - 9   | 30   | SB4483001 | C1 - 8   | 8    | SB6793001 | K - 23   | 26   |
| SB0800101 | C1 - 3   | 8    | SB1229001 | P2 - 5+ | 36   | SB4486001 | M - 11   | 30   | SB6798001 | N - 11   | 32   |
| SB0803001 | C1 - 20  | 8    | SB1258001 | F - 32  | 18   | SB4487001 | M - 10+  | 30   | SB6799101 | N - 16   | 32   |
| SB0827001 | Q - 37   | 38   | SB1267001 | H - 12  | 22   | SB4499001 | Q - 9+   | 38   | SB6800001 | N - 19   | 32   |
|           | Wa       | 49   | SB1270001 | Z - 16  | 46   | SB4504001 | A - 25   | 2    | SB6801001 | N - 21   | 32   |
| SB0910201 | B - 19   | 4    |           | Wa      | 50   | SB4587301 | P1 - 13  | 34   | SB6803001 | D - 1    | 14   |
| SB0911001 | G - 7    | 20   | SB1271101 | Z - 17  | 46   | SB4589001 | J - 6    | 24   | SB6806101 | D - 11   | 14   |
| SB0917101 | C1 - 11  | 8    |           | Wa      | 50   | SB4595201 | K - 28+  | 26   | SB6807001 | D - 16   | 14   |
| SB0919101 | C1 - 23  | 8    | SB1272001 | Z - 47  | 48   | SB4637101 | Q - 23   | 38   | SB6808001 | D - 22   | 14   |
| SB0920101 | C1 - 25  | 8    | SB1273001 | Z - 50  | 48   | SB4692001 | C1 - 56+ | 10   | SB6809001 | D - 26   | 14   |
| SB0924101 | C1 - 29  | 8    | SB1276001 | G - 9   | 20   | SB4742001 | F - 30   | 18   | SB6811001 | A - 5    | 2    |
| SB0929101 | C1 - 56+ | 10   | SB1277001 | A - 12  | 2    | SB4789001 | B - 34+  | 4    | SB6812001 | L - 15   | 28   |
| SB0954001 | N - 5    | 32   | SB1281001 | H - 14  | 22   | SB6278001 | Z - 1    | 46   | SB6813001 | L - 3    | 28   |
| SB0955001 | K - 33+  | 26   | SB1285001 | F - 2   | 18   | SB6382001 | K - 19   | 26   | SB6815001 | L - 13   | 28   |
| SB0961001 | D - 8    | 14   | SB1564001 | T - 17  | 44   | SB6383001 | K - 21   | 26   | SB6816001 | L - 1    | 28   |
| SB0962101 | D - 4    | 14   | SB1600001 | H - 30  | 22   | SB6697001 | A - 9    | 2    | SB6818101 | Q - 15   | 38   |
| SB0963101 | D - 9    | 14   | SB1645101 | T - 28  | 44   | SB6698001 | A - 10   | 2    | SB6819001 | C1 - 54+ | 10   |
| SB0964001 | D - 28   | 14   | SB1650101 | Q - 13  | 38   | SB6699001 | A - 14   | 2    | SB6820001 | C1 - 55+ | 10   |
|           | L - 8    | 28   | SB1652201 | F - 1   | 18   | SB6703001 | P1 - 1   | 34   | SB6821001 | C1 - 54+ | 10   |
| SB0965101 | D - 12   | 14   | SB1949001 | B - 42  | 6    | SB6704001 | P1 - 3   | 34   | SB6822001 | C1 - 55+ | 10   |
|           | L - 4    | 28   | SB2255001 | L - 21  | 28   | SB6711001 | B - 21+  | 4    | SB6823001 | C1 - 46  | 8    |
| SB0968101 | D - 29   | 14   | SB2330001 | E - 7   | 16   | SB6713001 | B - 21+  | 4    | SB6824001 | C1 - 47  | 8    |
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| SB0977001 | L - 16   | 28   | SB3049001 | K - 33+ | 26   | SB6717001 | B - 22+  | 4    | SB6826001 | Q - 32   | 38   |
| SB0984101 | A - 32   | 2    | SB3275001 | P1 - 10 | 34   | SB6718001 | B - 22+  | 4    | SB6829001 | Q - 33   | 38   |
| SB1018301 | B - 22+  | 4    | SB3329001 | T - 23  | 44   | SB6720001 | B - 23+  | 4    | SB6830001 | Q - 36   | 38   |
| SB1021101 | B - 44+  | 6    | SB3421001 | A - 37  | 2    | SB6721001 | B - 23+  | 4    | SB6832001 | B - 6    | 4    |
| SB1024001 | B - 46   | 6    | SB3543001 | J - 7   | 24   | SB6722001 | B - 23+  | 4    | SB6951001 | E - 27   | 16   |
| SB1034101 | B - 39+  | 4    | SB3571101 | J - 4   | 24   | SB6726001 | B - 39+  | 4    | SB6952001 | K - 29   | 26   |
| SB1037101 | B - 12   | 4    | SB3847001 | A - 24  | 2    | SB6729101 | B - 27+  | 4    | SB6953001 | K - 34   | 26   |
| SB1038001 | B - 13   | 4    |           | K - 36  | 26   | SB6730001 | B - 28   | 4    | SB6957001 | Ga       | 55   |
| SB1040002 | B - 15   | 4    |           | K - 42  | 26   | SB6732001 | B - 27+  | 4    | SB7009101 | F - 33   | 18   |
| SB1041001 | B - 14   | 4    |           | N - 9   | 32   | SB6734001 | B - 31   | 4    | SB7056001 | Sp       | 51   |
| SB1044001 | F - 9    | 18   |           | Z - 53  | 48   | SB6735001 | B - 36   | 4    | SB7057001 | Sp       | 51   |
| SB1047001 | F - 13   | 18   | SB3848001 | D - 36  | 14   | SB6736001 | B - 35+  | 4    | SB7058001 | E - 47   | 16   |
| SB1048101 | F - 11   | 18   |           | G - 5   | 20   | SB6737001 | C1 - 2   | 8    |           | Sp       | 51   |
| SB1049001 | F - 17   | 18   |           | J - 9   | 24   | SB6738101 | C1 - 9   | 8    | SB7061001 | E - 48   | 16   |
| SB1050001 | F - 10   | 18   |           | L - 26  | 28   | SB6739001 | C1 - 15  | 8    | SB7062001 | Sp       | 51   |
| SB1051001 | F - 51   | 18   |           | Q - 12  | 38   | SB6740001 | C1 - 18  | 8    | SB7065001 | P1 - 23  | 34   |
| SB1053101 | G - 2    | 20   | SB3849001 | C2 - 24 | 12   | SB6741001 | C1 - 31+ | 8    | SB7074001 | P1 - 22  | 34   |
| SB1054001 | F - 18   | 18   |           | Z - 3   | 46   | SB6743001 | C1 - 31+ | 8    | SB7077001 | P1 - 21  | 34   |
| SB1055001 | F - 19   | 18   | SB3928101 | Z - 18  | 46   | SB6748001 | C1 - 34  | 8    | SB7134001 | B - 17   | 4    |
| SB1056101 | G - 3    | 20   | SB4038001 | H - 36  | 22   | SB6749001 | C1 - 32  | 8    | SB7135001 | B - 9    | 4    |
| SB1058001 | H - 27   | 22   | SB4114001 | Z - 20  | 46   | SB6750001 | Q - 17   | 38   | SB7170001 | Q - 1    | 38   |
| SB1059001 | Sp       | 52   | SB4117001 | Z - 23  | 46   | SB6752001 | G - 13   | 20   | SB7171001 | Q - 3    | 38   |
| SB1060001 | Sp       | 52   | SB4118001 | Z - 27  | 46   | SB6757201 | G - 25   | 20   | SB7172001 | Q - 5    | 38   |
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| SB1078001 | D - 38   | 14   | SB4120001 | Z - 31  | 46   | SB6767101 | R - 1+   | 40   | SB7247001 | E - 46   | 16   |
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| SB1080101 | D - 2    | 14   | SB4155001 | Q - 30  | 38   | SB6768001 | B - 48+  | 6    | SB7464001 | B - 8    | 4    |
| SB1084001 | H - 7    | 22   | SB4158001 | F - 4   | 18   | SB6770101 | P1 - 6   | 34   | SB7465101 | C1 - 6   | 8    |
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| SB1088101 | H - 8    | 22   | SB4163001 | F - 41  | 18   | SB6785001 | K - 1    | 26   | SB7473101 | B - 55   | 6    |
| SB1089001 | M - 10+  | 30   | SB4164001 | D - 20  | 14   | SB6786001 | K - 3    | 26   | SB7476001 | B - 49   | 6    |
| SB1090101 | M - 1    | 30   | SB4169001 | Z - 35  | 46   | SB6787001 | K - 4    | 26   | SB7483001 | B - 48+  | 6    |
| SB1169101 | A - 29   | 2    | SB4216001 | H - 35  | 22   |           | N - 12   | 32   | SB7484001 | B - 11   | 4    |
| SB1172001 | C1 - 53  | 8    | SB4261001 | Q - 21  | 38   | SB6788001 | K - 5    | 26   | SB7485001 | C1 - 1   | 8    |
| SB1179001 | M - 3    | 30   | SB4276101 | Q - 7   | 38   |           | N - 13   | 32   | SB7487001 | F - 27   | 18   |
| SB1180201 | H - 9    | 22   | SB4435001 | D - 13  | 14   | SB6789001 | K - 7    | 26   | SB7490001 | G - 29   | 20   |
| SB1181001 | H - 10   | 22   | SB4442101 | H - 37+ | 22   | SB6790001 | K - 8    | 26   | SB7491001 | G - 30   | 20   |

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| SB7494001 | F - 48  | 18   | SB7911001 | A - 41+ | 2    |      |        |      |      |        |      |
| SB7495101 | J - 1   | 24   |           | Wa      | 50   |      |        |      |      |        |      |
| SB7496001 | F - 39  | 18   | SB7918001 | A - 31  | 2    |      |        |      |      |        |      |
| SB7497001 | F - 29  | 18   | SB8096001 | P1 - 4  | 34   |      |        |      |      |        |      |
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| SB7552001 | S - 1   | 42   | SB8587001 | F - 36  | 18   |      |        |      |      |        |      |
| SB7556001 | K - 14  | 26   | SB8588001 | F - 37  | 18   |      |        |      |      |        |      |
| SB7557101 | G - 26  | 20   |           |         |      |      |        |      |      |        |      |
| SB7558001 | B - 50  | 6    |           |         |      |      |        |      |      |        |      |
| SB7621001 | B - 1   | 4    |           |         |      |      |        |      |      |        |      |
| SB7693101 | Z - 40  | 46   |           |         |      |      |        |      |      |        |      |
| SB7739001 | A - 4   | 2    |           |         |      |      |        |      |      |        |      |
| SB7742001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7743001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7744001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7745001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7746001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7747001 | Sp      | 52   |           |         |      |      |        |      |      |        |      |
| SB7748001 | E - 19  | 16   |           |         |      |      |        |      |      |        |      |
| SB7749001 | E - 20  | 16   |           |         |      |      |        |      |      |        |      |
| SB7750001 | E - 23  | 16   |           |         |      |      |        |      |      |        |      |
| SB7751001 | E - 24  | 16   |           |         |      |      |        |      |      |        |      |
| SB7752001 | E - 32  | 16   |           |         |      |      |        |      |      |        |      |
| SB7753001 | E - 39  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7754001 | E - 40  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7755001 | E - 36  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7756001 | E - 37  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7757001 | E - 41  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7758001 | E - 42  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7759001 | E - 43  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7760001 | E - 44  | 16   |           |         |      |      |        |      |      |        |      |
|           | Ga      | 55   |           |         |      |      |        |      |      |        |      |
| SB7761001 | C2 - 3  | 12   |           |         |      |      |        |      |      |        |      |
| SB7762001 | C2 - 4  | 12   |           |         |      |      |        |      |      |        |      |
| SB7763001 | C2 - 5  | 12   |           |         |      |      |        |      |      |        |      |
| SB7764001 | C2 - 8  | 12   |           |         |      |      |        |      |      |        |      |
| SB7765001 | C2 - 10 | 12   |           |         |      |      |        |      |      |        |      |
| SB7772001 | C2 - 20 | 12   |           |         |      |      |        |      |      |        |      |
| SB7773001 | C2 - 21 | 12   |           |         |      |      |        |      |      |        |      |
| SB7774001 | C2 - 22 | 12   |           |         |      |      |        |      |      |        |      |
| SB7775001 | C2 - 23 | 12   |           |         |      |      |        |      |      |        |      |
| SB7776001 | C2 - 2  | 12   |           |         |      |      |        |      |      |        |      |
| SB7777001 | C2 - 1+ | 12   |           |         |      |      |        |      |      |        |      |
| SB77770E1 | C2 - 1+ | 12   |           |         |      |      |        |      |      |        |      |
| SB7893001 | C2 - 13 | 12   |           |         |      |      |        |      |      |        |      |
| SB7894001 | C2 - 14 | 12   |           |         |      |      |        |      |      |        |      |
| SB7895001 | C2 - 16 | 12   |           |         |      |      |        |      |      |        |      |
| SB7896001 | C2 - 12 | 12   |           |         |      |      |        |      |      |        |      |
| SB7897001 | C2 - 11 | 12   |           |         |      |      |        |      |      |        |      |
| SB7899001 | T - 19  | 44   |           |         |      |      |        |      |      |        |      |
| SB7900001 | T - 1   | 44   |           |         |      |      |        |      |      |        |      |
| SB7901001 | F - 43  | 18   |           |         |      |      |        |      |      |        |      |
| SB7902101 | F - 45  | 18   |           |         |      |      |        |      |      |        |      |
| SB7906001 | G - 18  | 20   |           |         |      |      |        |      |      |        |      |
| SB7907001 | G - 15  | 20   |           |         |      |      |        |      |      |        |      |
| SB7909001 | F - 46  | 18   |           |         |      |      |        |      |      |        |      |



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