

# HCG/B

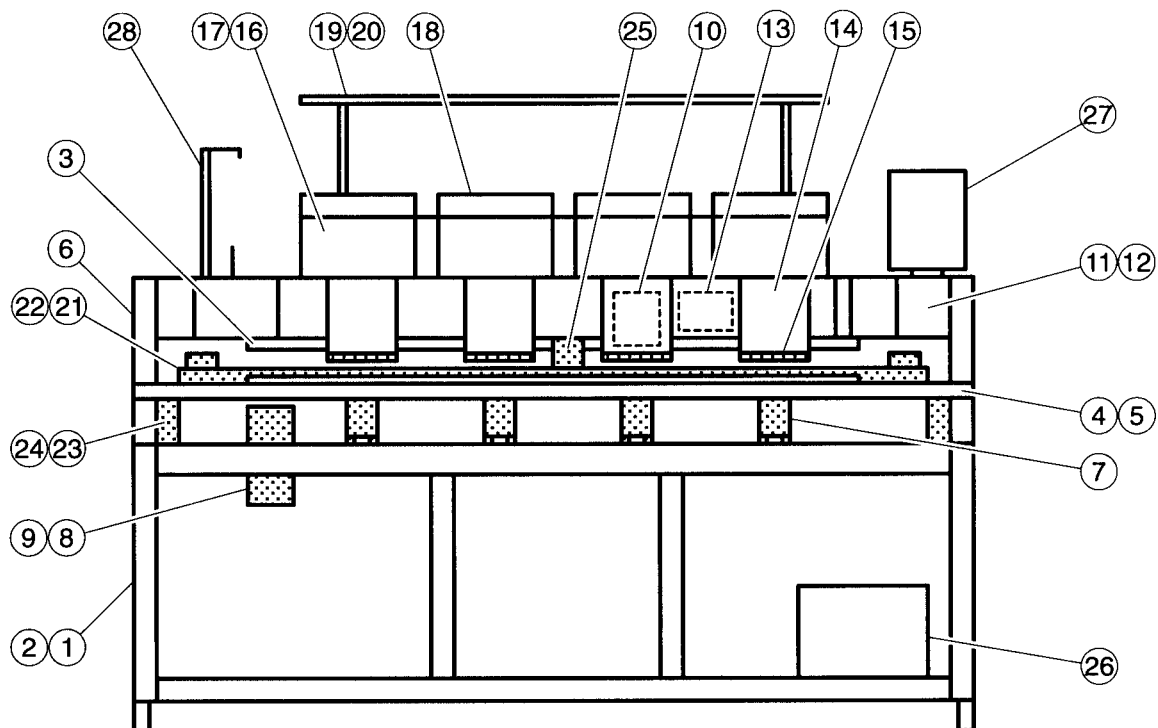
1506B  
X1504B  
1504B  
1502B

## PARTS LIST

## パーツリスト



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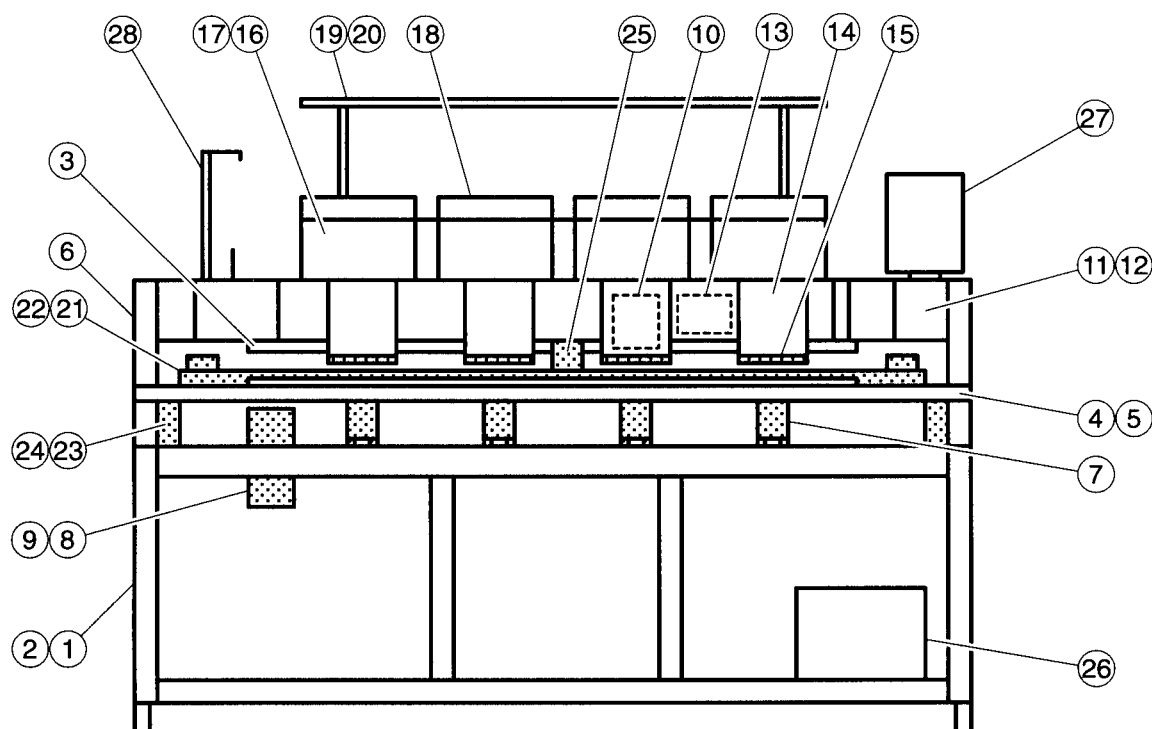


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※ Specifications are subject to change without notice.

※ When you place parts orders, please state machine model (example : HCG-1502B-45TTC), machine number and if machine is with option or not.

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※ When you place parts orders, please state machine model (example : HCG-1502B-45TTC), machine number and if machine is with option or not.

EXPLANATION OF LIST 1

| 組<br>Ass'y | 指図<br>El't | 部品番号<br>PARTS No. | PARTS NAMES                    |
|------------|------------|-------------------|--------------------------------|
|            | 9          | HMF17870          | Adjusting plate                |
| 11*        | 10         | M0416186          | Thread check spring            |
|            | 11         | HMF17840          | Thread tension ass'y           |
|            | 12         | HMF17860          | Thread tension lid             |
|            | 31         | HCG08170          | Roller pin guide               |
|            | 32         | →10b              | Jump solenoid ass'y (by model) |
| ①          | ②          | ③                 | ④                              |

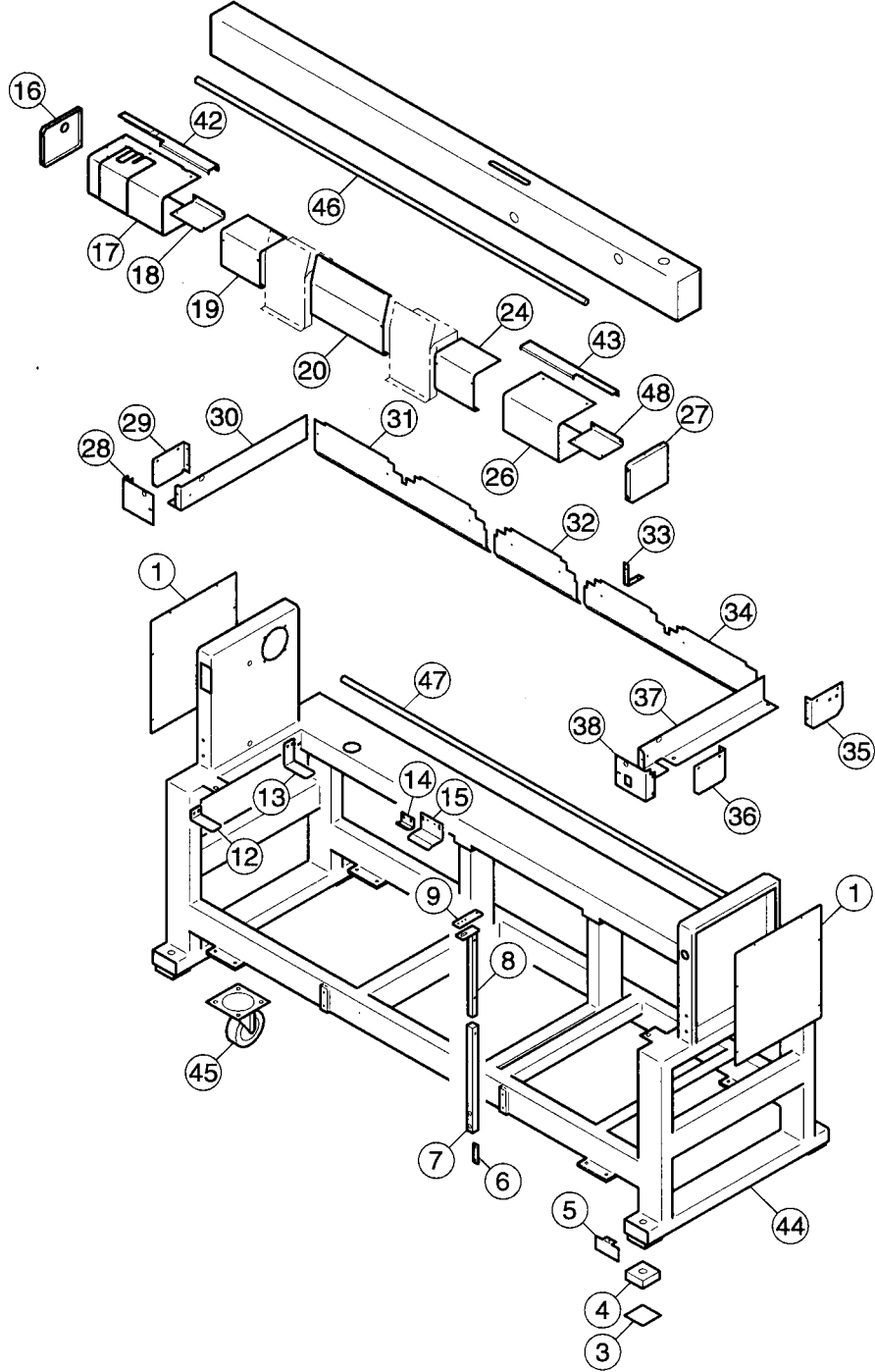
- ① This element number here is an assembly part number.  
It indicates that the part shown here is a component of an assembly part.
- ② It is the element number of this parts in illustrations.
- ③ It is parts number.
- ④ This parts is entered to other page of that mark "→" shows.

EXPLANATION OF LIST 2 (PARTS BY MODEL)

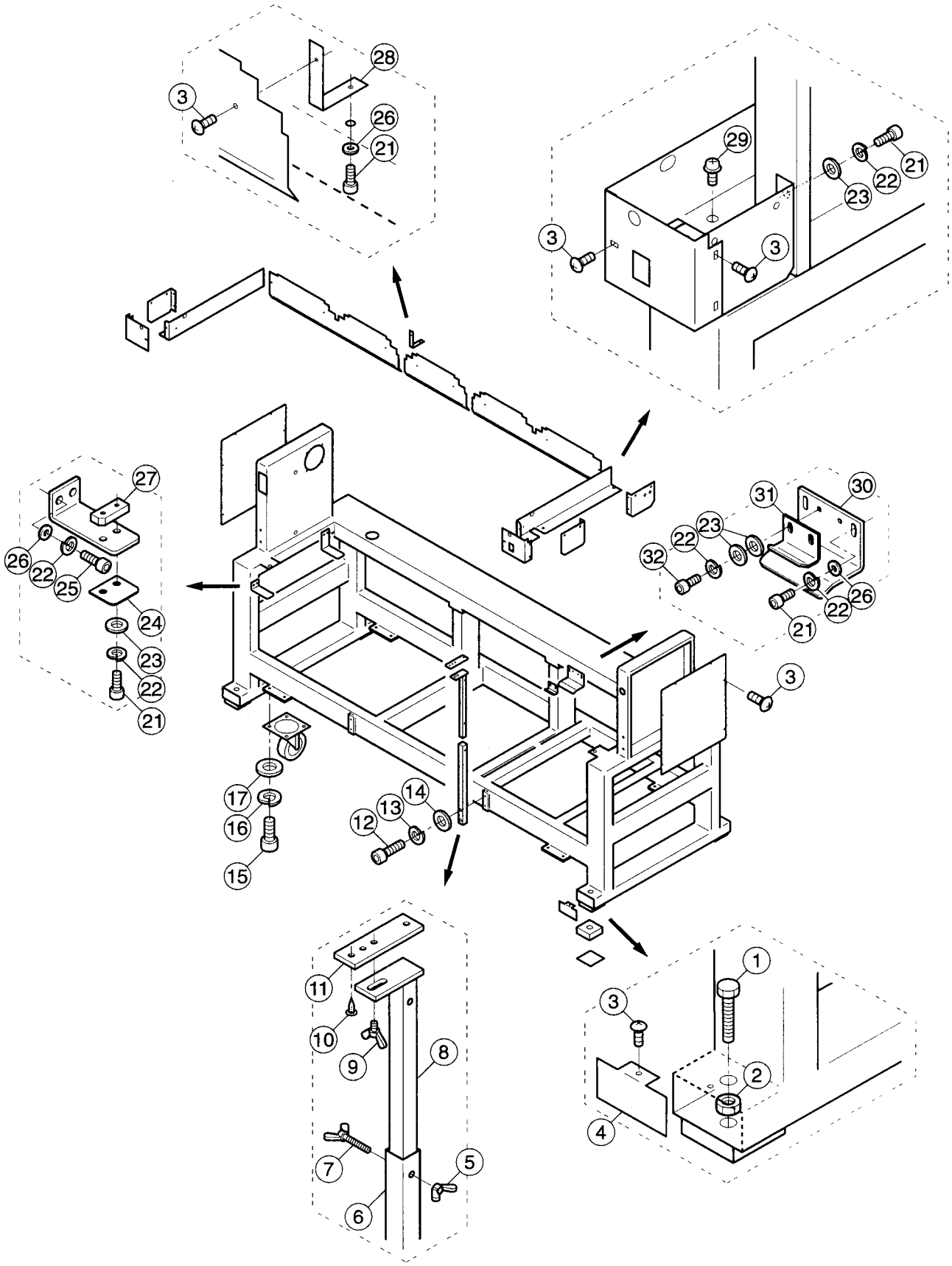
In this parts list, we have parts followed by description of "(Parts by model)".  
These parts are carried in pages where "(Parts by model)" after unit name is described.

|             |                 |          |  |
|-------------|-----------------|----------|--|
| 指図 / EIt    |                 | 45       |  |
| PARTS NAMES |                 | Beam     |  |
| 機種<br>MODEL | L 8 2 0         | HMF00850 |  |
|             | L 7 2 0 A       | HMF00890 |  |
|             | L 8 1 8         | HMF00900 |  |
|             | L 8 1 6         | HMF00910 |  |
|             | L 8 1 4         | HMF00920 |  |
|             | L 1 0 1 2       | HMF00820 |  |
|             | L 8 1 2         | HMF00930 |  |
|             |                 |          |  |
|             | W 1 0 1 5 - 7 8 | HMF01050 |  |
|             | 7 2 2           | HMF01020 |  |

- ① It is the element number of this parts in illustrations.
- ② This column shows machine model.
- ③ This column shows parts number related to machine model.  
(Example. Parts number of "Beam" for L820 → HMF00850)

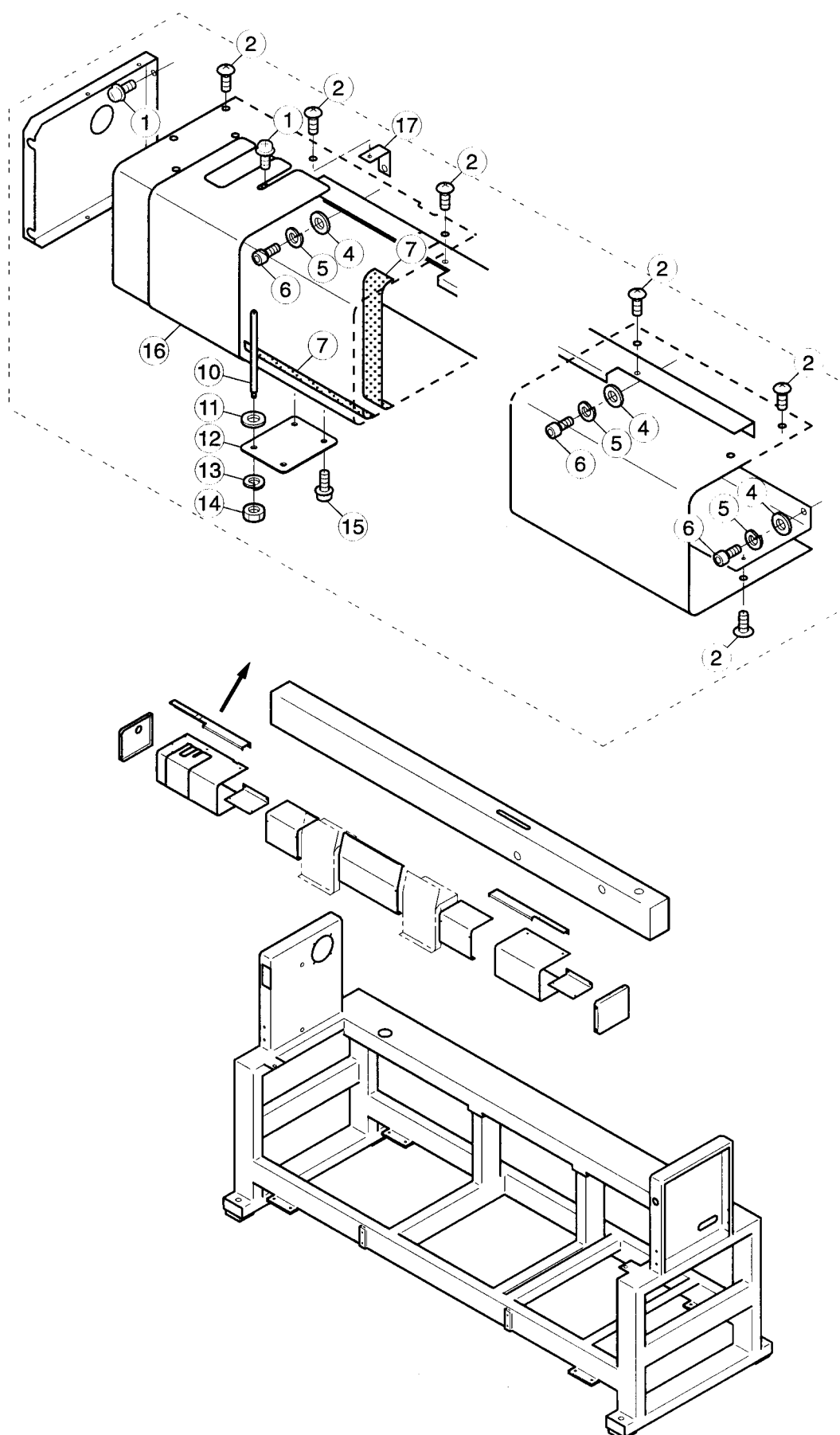


| Ass'y | El't | Parts No. | Parts Names                                 | Note |
|-------|------|-----------|---------------------------------------------|------|
|       | 1    | HCG02460  | Cover                                       |      |
|       | 3    | HCG00330  | Rubber mount                                |      |
|       | 4    | HCG00321  | Mount                                       |      |
|       | 5    | HCG00310  | Pipe cover                                  |      |
|       | 6    | HCG32030  | Plate washer                                |      |
|       | 7    | HCG32021  | Table stay (lower)                          |      |
|       | 8    | HCG32010  | Table stay (upper)                          |      |
|       | 9    | HCG32000  | Plate                                       |      |
|       | 12   | HCG32071  | Table bracket B (side)                      |      |
|       | 13   | HCG32061  | Table bracket A (side)                      |      |
|       | 14   | HCG32051  | Table bracket B (rear)                      |      |
|       | 15   | HCG32041  | Table bracket A (rear)                      |      |
|       | 16   | HCG10290  | Side cover (left)                           |      |
|       | 17   | →2a       | Upper shaft cover (left) (by model)         |      |
|       | 18   | →2a       | Cover bracket (lower) (by model)            |      |
|       | 19   | HCG10490  | Head cover (left)                           |      |
|       | 20   | →2a       | Head cover (middle) (by model)              |      |
|       | 24   | HCG10480  | Head cover (right)                          |      |
|       | 26   | →2a       | Cover for needle bar change unit (by model) |      |
|       | 27   | HCG10240  | Side cover (right)                          |      |
|       | 28   | HCG00361  | Table support cover B                       |      |
|       | 29   | HCG30652  | Table support B (side)                      |      |
|       | 30   | HCG00383  | Table support cover D                       |      |
|       | 31   | →2a       | Table support cover (left) (by model)       |      |
|       | 32   | →2a       | Table support cover (center) (by model)     |      |
|       | 33   | CGB00030  | Cover bracket                               |      |
|       | 34   | →2a       | Table support cover (right) (by model)      |      |
|       | 35   | HCG30662  | Table support C (side)                      |      |
|       | 36   | HCG30642  | Table support A (side)                      |      |
|       | 37   | HCG00373  | Table support cover C                       |      |
|       | 38   | HCG00351  | Table support cover A                       |      |
|       | 42   | →2a       | Cover bracket F (upper) (by model)          |      |
|       | 43   | →2a       | Cover bracket E (upper) (by model)          |      |
|       | 44   | →2a       | Frame (by model)                            |      |
|       | 45   | MPZ02300  | Caster                                      |      |
|       | 46   | →2a       | Upper shaft (by model)                      |      |
|       | 47   | →2a       | Lower shaft (by model)                      |      |
|       | 48   | →2a       | Cover bracket (lower) (by model)            |      |

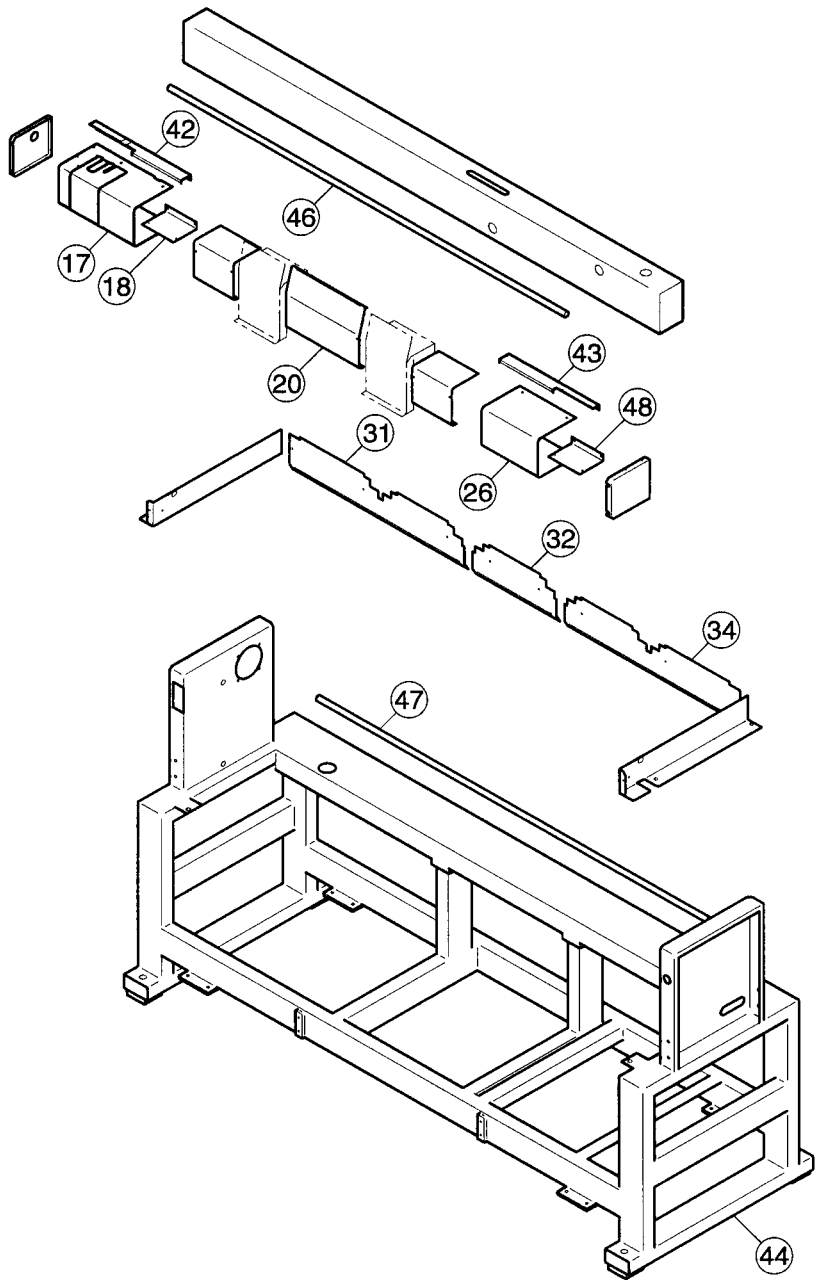




| Ass'y | El't | Parts No. | Parts Names                                        | Note |
|-------|------|-----------|----------------------------------------------------|------|
|       | 1    | SHBA16100 | Hexagon head bolt (M16x100)                        |      |
|       | 2    | NHBA16000 | Hexagon nut (M16)                                  |      |
|       | 3    | STAB04006 | Truss head screw (cross recessed, M4x6)            |      |
|       | 4    | HCG00310  | Pipe cover                                         |      |
|       | 5    | NWAB06000 | Wing nut (M6)                                      |      |
|       | 6    | HCG32021  | Table stay (lower)                                 |      |
|       | 7    | SWAB06035 | Wing bolt (M6x35)                                  |      |
|       | 8    | HCG32010  | Table stay (upper)                                 |      |
|       | 9    | SWAB06010 | Wing bolt (M6x10)                                  |      |
|       | 10   | SLAB5A020 | Oval head wood screw (cross recessed head, 5.1x20) |      |
|       | 11   | HCG32000  | Plate                                              |      |
|       | 12   | SCAA06025 | Hexagon socket head cap screw (M6x25)              |      |
|       | 13   | WSAA06000 | Spring lock washer (M6)                            |      |
|       | 14   | WPAA06000 | Plain washer (M6)                                  |      |
|       | 15   | SCAA10020 | Hexagon socket head cap screw (M10x20)             |      |
|       | 16   | WSAA10000 | Spring lock washer (M10)                           |      |
|       | 17   | WPAA10000 | Plain washer (M10)                                 |      |
|       | 21   | SCAA05015 | Hexagon socket head cap screw (M5x15)              |      |
|       | 22   | WSAA05000 | Spring lock washer (M5)                            |      |
|       | 23   | WPAA05000 | Plain washer (M5)                                  |      |
|       | 24   | HCG32090  | Spacer                                             |      |
|       | 25   | SCAA05020 | Hexagon socket head cap screw (M5x20)              |      |
|       | 26   | M0408160  | Washer                                             |      |
|       | 27   | HCG32080  | Table guide                                        |      |
|       | 28   | CGB00030  | Cover bracket                                      |      |
|       | 29   | SPDD04008 | Pan head screw (cross recessed, M4x8)              |      |
|       | 30   | HCG32041  | Table bracket A (rear)                             |      |
|       | 31   | HCG32051  | Table bracket B (rear)                             |      |
|       | 32   | SCAA05010 | Hexagon socket head cap screw (M5x10)              |      |



| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | SPDD04008 | Pan head screw (cross recessed, M4x8)            |      |
|       | 2    | STAB04006 | Truss head screw (cross recessed, M4x6)          |      |
|       | 4    | WPAA05000 | Plain washer (M5)                                |      |
|       | 5    | WSAA05000 | Spring lock washer (M5)                          |      |
|       | 6    | SCAA05010 | Hexagon socket head cap screw (M5x10)            |      |
|       | 7    | HMF10330  | Protection tape                                  |      |
|       | 10   | M0402052  | Spool pin                                        |      |
|       | 11   | WPAD04000 | Plain washer (M4)                                |      |
|       | 12   | HCG10320  | Spool pin support                                |      |
|       | 13   | WSAD04000 | Spring lock washer (M4)                          |      |
|       | 14   | NHAD04000 | Hexagon nut (M4)                                 |      |
|       | 15   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 16   | HCG10440  | Cover                                            |      |
|       | 17   | HMF10270  | Cover bracket A                                  |      |

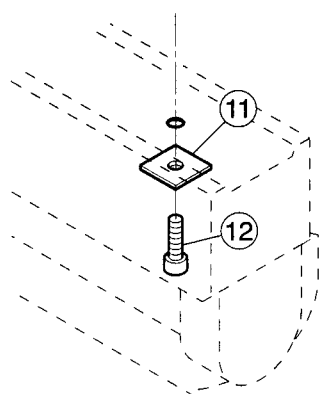
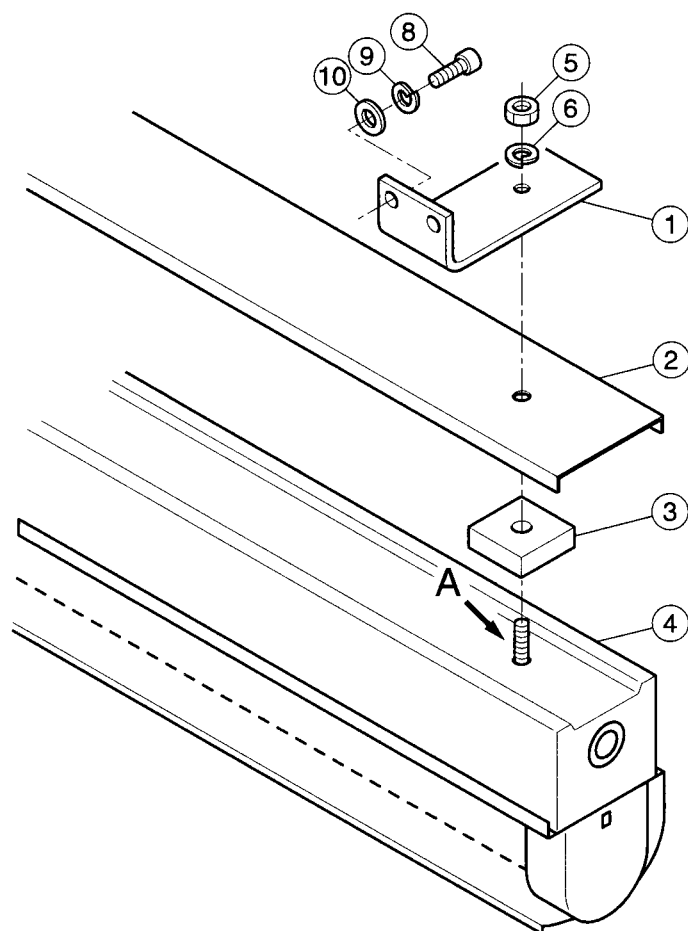


| 指図 / E'l't<br>PARTS NAMES |             | 1 7<br>Upper shaft<br>cover (left) | 1 8<br>Cover bracket<br>(lower) | 2 0<br>Head cover<br>(middle) | 2 6<br>Cover |
|---------------------------|-------------|------------------------------------|---------------------------------|-------------------------------|--------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG10510                           | HCG10260                        | HCG13180                      | HCG10500     |
|                           | X 1 5 0 4 B | HCG10510                           | HCG10260                        | HCG13170                      | HCG10500     |
|                           | 1 5 0 4 B   | HCG10510                           | HCG10260                        | HCG13180                      | HCG10500     |
|                           | 1 5 0 2 B   | HCG10510                           | HCG10260                        | HCG13170                      | HCG10500     |
|                           |             |                                    |                                 |                               |              |

| 指図 / E'l't<br>PARTS NAMES |             | 3 1<br>Table support<br>cover (left) | 3 2<br>Table support<br>cover (center) | 3 4<br>Table support<br>cover (right) |  |
|---------------------------|-------------|--------------------------------------|----------------------------------------|---------------------------------------|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG00760                             | HCG00410                               | HCG00770                              |  |
|                           | X 1 5 0 4 B | HCG00470                             | HCG00460                               | HCG00450                              |  |
|                           | 1 5 0 4 B   | HCG00760                             | HCG00820                               | HCG00770                              |  |
|                           | 1 5 0 2 B   | HCG00520                             | HCG00460                               | HCG00510                              |  |
|                           |             |                                      |                                        |                                       |  |

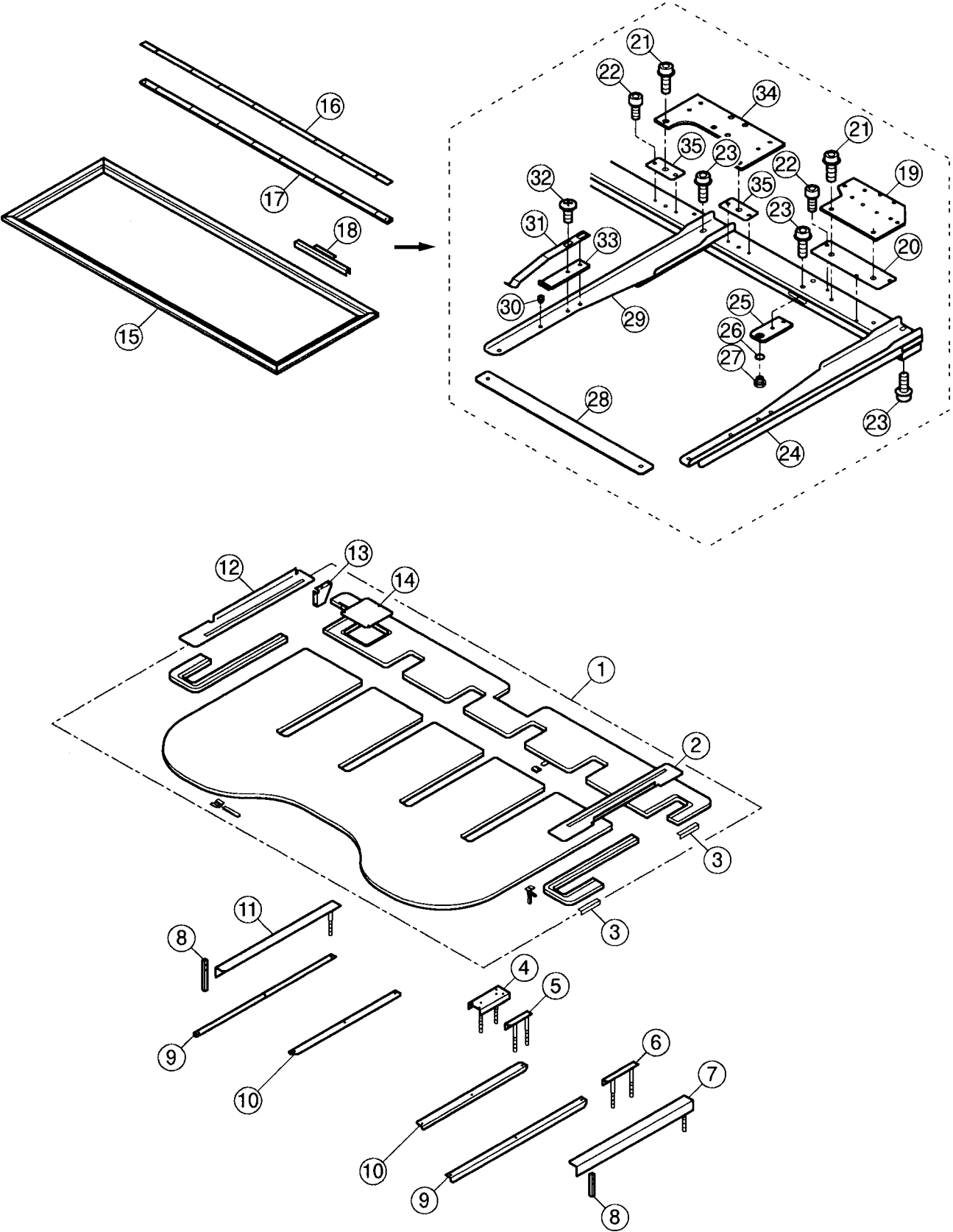
| 指図 / E'l't<br>PARTS NAMES |             | 4 2<br>Cover bracket<br>(upper) F |  | 4 3<br>Cover bracket<br>(upper) E |  |
|---------------------------|-------------|-----------------------------------|--|-----------------------------------|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG10530                          |  | HCG10520                          |  |
|                           | X 1 5 0 4 B | HCG10530                          |  | HCG10520                          |  |
|                           | 1 5 0 4 B   | HCG10530                          |  | HCG10520                          |  |
|                           | 1 5 0 2 B   | HCG10530                          |  | HCG10520                          |  |
|                           |             |                                   |  |                                   |  |

| 指図 / E'l't<br>PARTS NAMES |             | 4 4<br>Frame | 4 6<br>Upper shaft | 4 7<br>Lower shaft | 4 8<br>Cover bracket<br>(lower) |
|---------------------------|-------------|--------------|--------------------|--------------------|---------------------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG00750     | HCG02700           | HCG02710           | HCG10340                        |
|                           | X 1 5 0 4 B | HCG00683     | HCG02590           | HCG02610           | HCG10340                        |
|                           | 1 5 0 4 B   | HCG00811     | HCG02720           | HCG02730           | HCG10340                        |
|                           | 1 5 0 2 B   | HCG00720     | HCG02530           | HCG02540           | HCG10340                        |
|                           |             |              |                    |                    |                                 |



**A**

| Ass'y | El't | Parts No. | Parts Names                           | Note |
|-------|------|-----------|---------------------------------------|------|
|       | 1    | HMF00192  | Illuminator bracket                   |      |
|       | 2    | HCG00430  | Illuminator cover                     |      |
|       | 3    | HMF00320  | Vibration insulator                   |      |
|       | 4    | EPP00480  | Illuminator                           |      |
|       | 5    | NHAA06000 | Hexagon nut (M6)                      |      |
|       | 6    | WSAA06000 | Spring lock washer (M6)               |      |
|       | 8    | SCAA05015 | Hexagon socket head cap screw (M5x15) |      |
|       | 9    | WSAA05000 | Spring lock washer (M5)               |      |
|       | 10   | WPAA05000 | Plain washer (M5)                     |      |
|       | 11   | WKAB06000 | Square washer(M6)                     |      |
|       | 12   | SCAA06022 | Hexagon socket head cap screw (M6x22) |      |



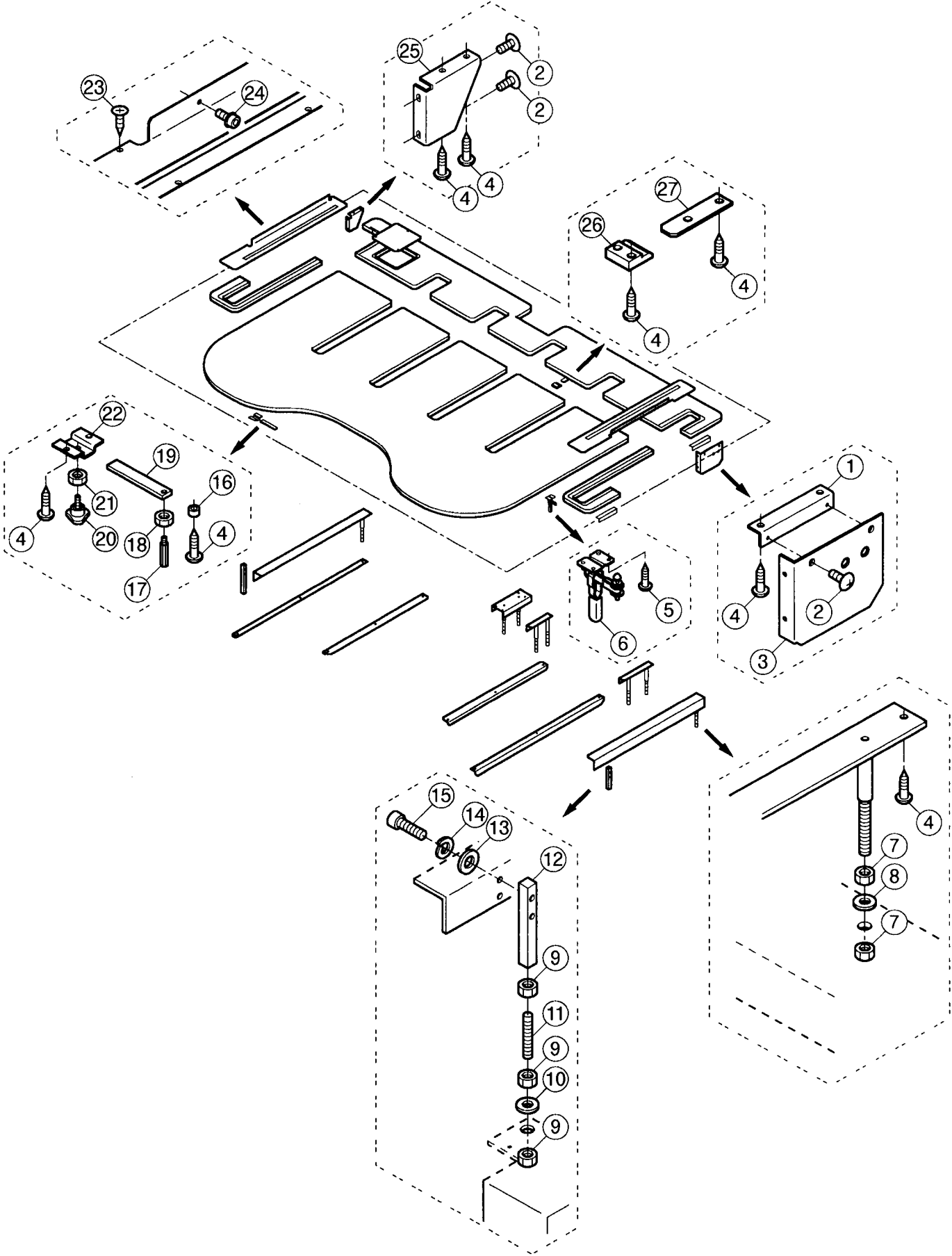


# TABLE 1

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4a-1

| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | →5a       | Table set (by model)                             |      |
|       | 2    | HCG30681  | Carriage cover (right)                           |      |
|       | 3    | →4b       | Table support bracket A                          |      |
|       | 4    | HCG30610  | Table support F                                  |      |
|       | 5    | HCG30601  | Table support E                                  |      |
|       | 6    | HCG30121  | Table support D                                  |      |
|       | 7    | HCG30580  | Table support (right)                            |      |
|       | 8    | →4b       | Table support stud                               |      |
|       | 9    | HCG32110  | Reinforcement plate                              |      |
|       | 10   | HCG32100  | Table support (front)                            |      |
|       | 11   | HCG30590  | Table support (left)                             |      |
|       | 12   | HCG30691  | Carriage cover (left)                            |      |
|       | 13   | →4b       | Table support bracket B                          |      |
|       | 14   | HCG06260  | Cover for thread cutting driver                  |      |
|       | 15   | →5a       | Embroidery frame ass'y (by model)                |      |
|       | 16   | →5a       | Tubular frame bracket (upper) (by model)         |      |
|       | 16   | →5a       | Cap frame bracket (upper) (by model)             |      |
|       | 17   | →5a       | Tubular frame bracket (lower) (by model)         |      |
|       | 17   | →5a       | Cap frame bracket (lower) (by model)             |      |
|       | 18   | M0437016  | Clip (300mm)                                     |      |
|       | 18   | HMF37550  | Clip (280mm)                                     |      |
|       | 18   | M0437056  | Clip (190mm)                                     |      |
|       | 18   | M0437836  | Clip (170mm)                                     |      |
|       | 19   | →21a      | Connecting plate                                 |      |
|       | 20   | HCG37050  | Tubular frame spacer A                           |      |
|       | 21   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 22   | SCAD03006 | Hexagon socket head cap screw (M3x6)             |      |
|       | 23   | SCBD04006 | Hexagon socket head cap screw with flange (M4x6) |      |
|       | 24   | HCG37081  | Tubular frame hold arm (right)                   |      |
|       | 25   | HCG37071  | Cap frame spacer                                 |      |
|       | 26   | M0424080  | Spacer                                           |      |
|       | 27   | M0438941  | Insert nut                                       |      |
|       | 28   | →5a       | Pitch gauge                                      |      |
|       | 29   | HCG37091  | Tubular frame hold arm (left)                    |      |
|       | 30   | C0440563  | positioning pin                                  |      |
|       | 31   | HCM41353  | Hold spring C                                    |      |
|       | 32   | SBAB04010 | Binding head screw (M4x10)                       |      |
|       | 33   | HCM41361  | Hold spring base                                 |      |
|       | 34   | →21a      | Connecting plate                                 |      |
|       | 35   | HCG37060  | Tubular frame spacer B                           |      |

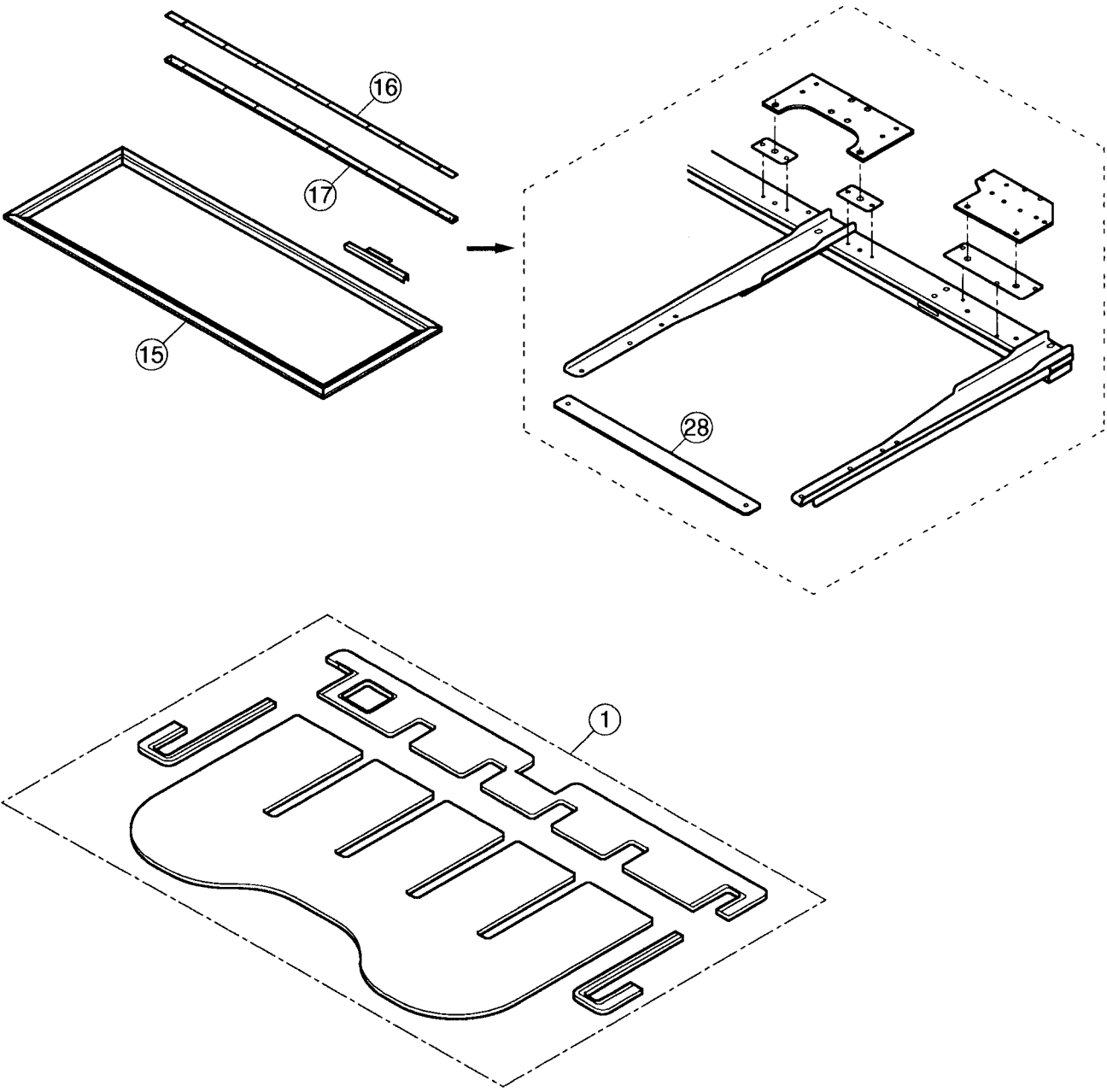


# TABLE 2

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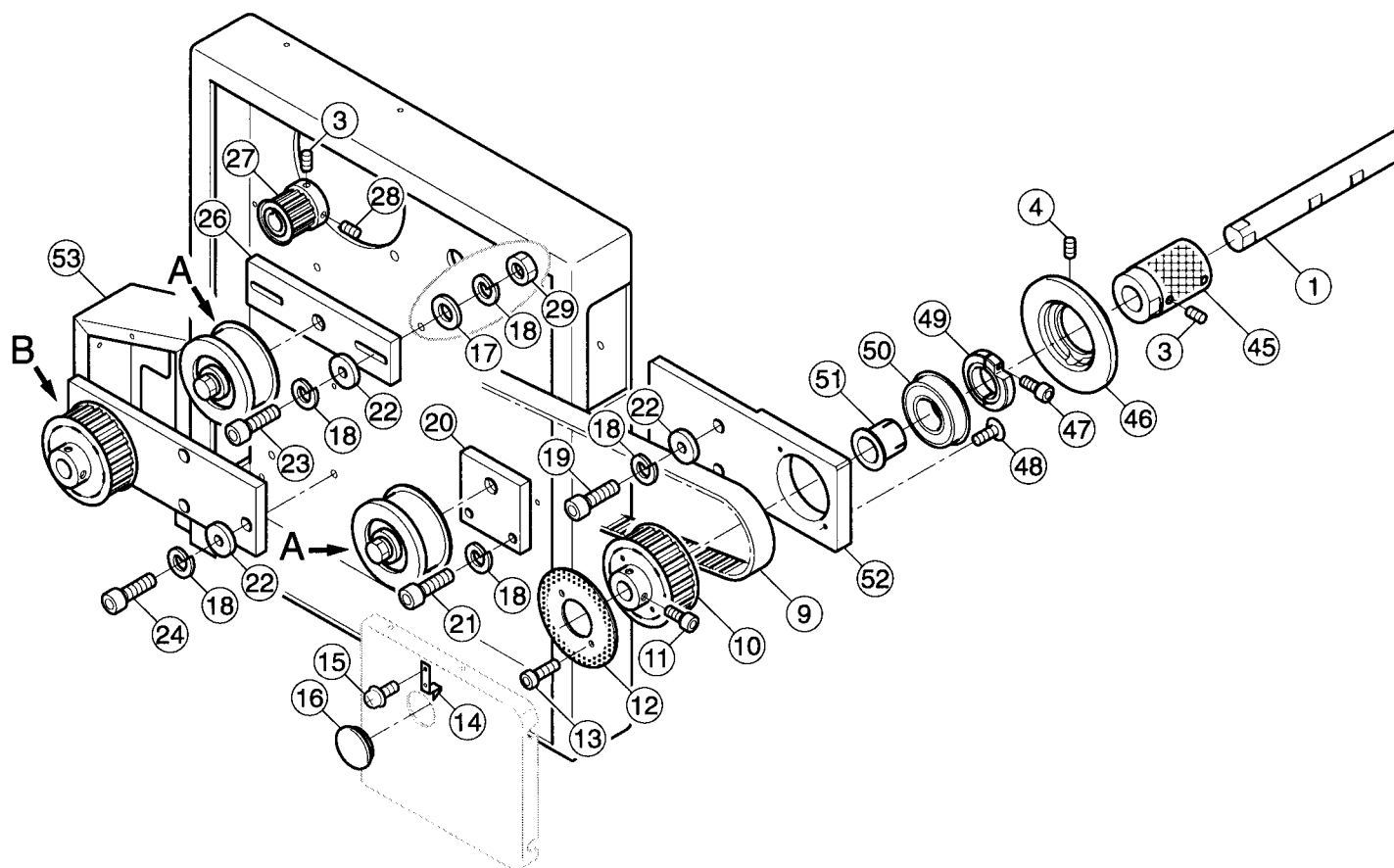
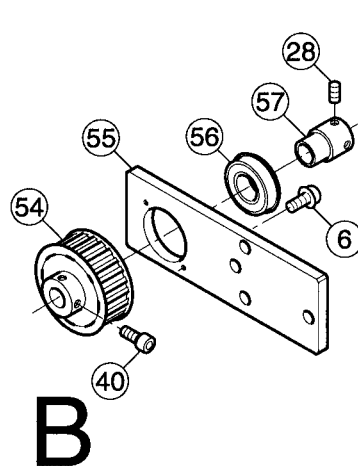
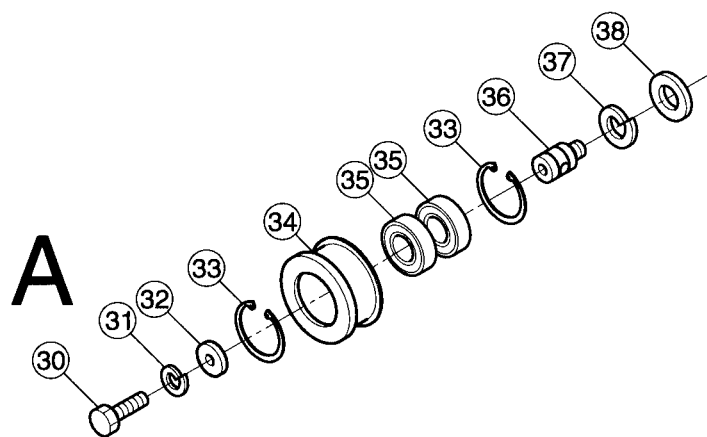
4b-1

| Ass'y | El't | Parts No. | Parts Names                                           | Note |
|-------|------|-----------|-------------------------------------------------------|------|
|       | 1    | HCG30620  | Table support bracket A                               |      |
|       | 2    | STAB04006 | Truss head screw (cross recessed, M4x6)               |      |
|       | 3    | →1a       | Table support C (side)                                |      |
|       | 4    | SKAB5A020 | Round head wood screw (cross recessed head, 5.1x20)   |      |
|       | 5    | SKAB3E016 | Round head wood screw (cross recessed head, 3.5x16)   |      |
|       | 6    | MPZ01990  | Toggle clamp                                          |      |
|       | 7    | NHAD12000 | Hexagon nut (M12)                                     |      |
|       | 8    | WPAD12000 | Plain washer (M12)                                    |      |
|       | 9    | NHAD10000 | Hexagon nut (M10)                                     |      |
|       | 10   | WPAD10000 | Plain washer (M10)                                    |      |
|       | 11   | HCG30230  | Table support screw                                   |      |
|       | 12   | HCG30670  | Table support stud                                    |      |
|       | 13   | WPAA06000 | Plain washer (M6)                                     |      |
|       | 14   | WSAA06000 | Spring lock washer (M6)                               |      |
|       | 15   | SCAA06025 | Hexagon socket head cap screw (M6x25)                 |      |
|       | 16   | M0412241  | Plastic ring                                          |      |
|       | 17   | M0410041  | Stud                                                  |      |
|       | 18   | NHAD05000 | Hexagon nut (M5)                                      |      |
|       | 19   | HCM34060  | Table prop B                                          |      |
|       | 20   | MPZ01080  | Knob bolt (M6)                                        |      |
|       | 21   | NHAD06000 | Hexagon nut (M6)                                      |      |
|       | 22   | HCM34050  | Table prop A                                          |      |
|       | 23   | SNAB3A010 | Flat head tapping screw (cross recessed head, 3.1x10) |      |
|       | 24   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8)      |      |
|       | 25   | HCG30630  | Table support bracket B                               |      |
|       | 26   | HCG30360  | Table prop block                                      |      |
|       | 27   | HCG30201  | Table prop plate                                      |      |



| 指図 / E'l't<br>PARTS NAMES |             | 1<br>Table set | 1 5<br>Embroidery<br>frame ass'y | 1 6<br>Tubular frame<br>bracket (upper) | 1 6<br>Cap frame<br>bracket (upper) |
|---------------------------|-------------|----------------|----------------------------------|-----------------------------------------|-------------------------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG30901       | HCG937070                        | HCG37300                                | HCG37320                            |
|                           | X 1 5 0 4 B | HCG30700       | HCG937080                        | HCG37401                                | HCG37420                            |
|                           | 1 5 0 4 B   | HCG30952       | HCG937090                        | HCG37260                                | HCG37280                            |
|                           | 1 5 0 2 B   | HCG30790       | HCG937100                        | HCG37251                                | HCG37270                            |
|                           |             |                |                                  |                                         |                                     |

| 指図 / E'l't<br>PARTS NAMES |             | 1 7<br>Tubular frame<br>bracket (lower) | 1 7<br>Cap frame<br>bracket (lower) | 2 8<br>Pitch gauge |  |
|---------------------------|-------------|-----------------------------------------|-------------------------------------|--------------------|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG37310                                | HCG37330                            | HCM53032           |  |
|                           | X 1 5 0 4 B | HCG37410                                | HCG37430                            | HCM53052           |  |
|                           | 1 5 0 4 B   | HCG37220                                | HCG37240                            | HCM53032           |  |
|                           | 1 5 0 2 B   | HCG37210                                | HCG37230                            | HCM53052           |  |
|                           |             |                                         |                                     |                    |  |

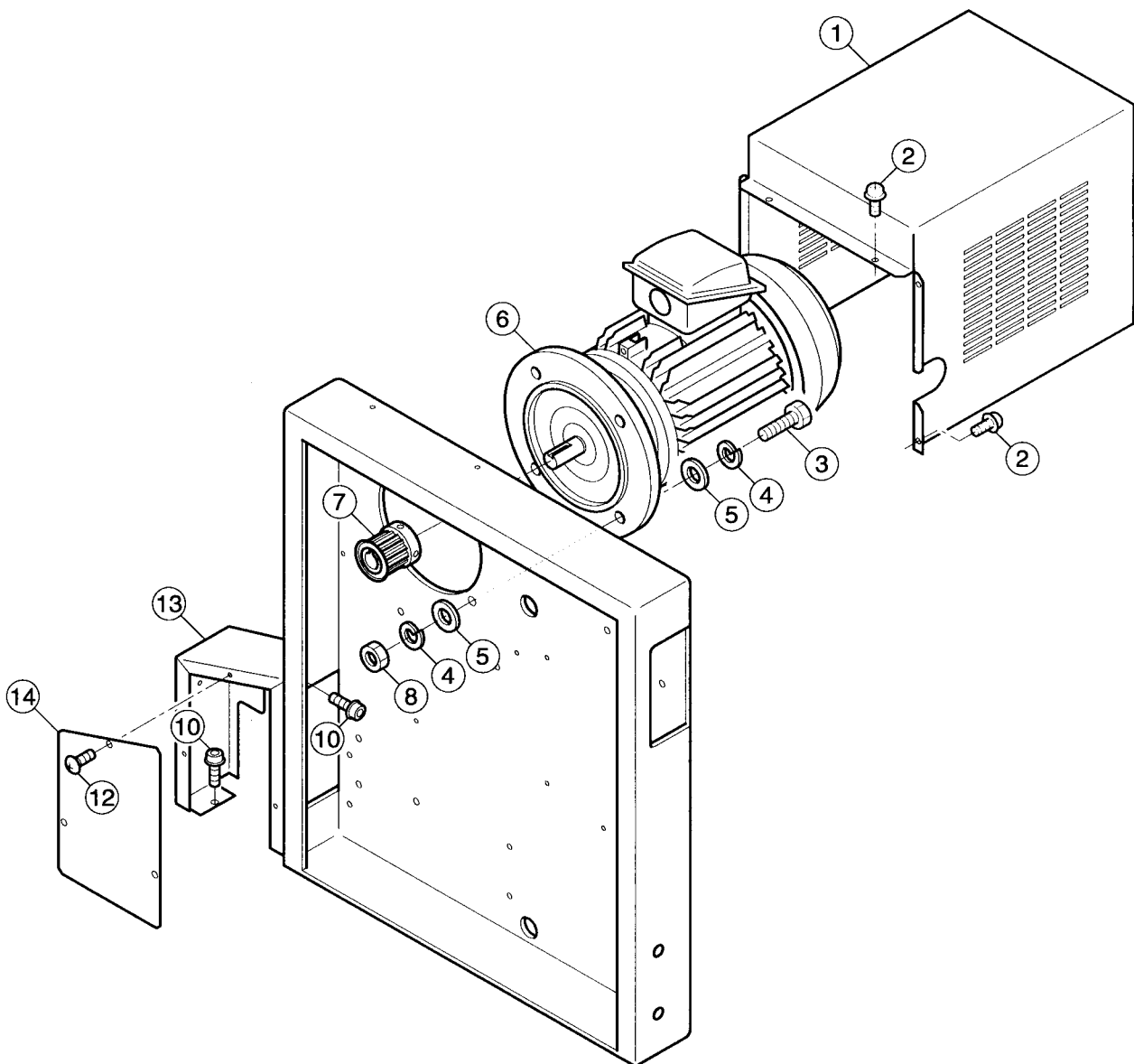


# TRANSMISSION UNIT 1

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| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | →2a       | Upper shaft (by model)                  |      |
|       | 3    | SSAA06010 | Hexagon socket set screw (M6x10)        |      |
|       | 4    | SSAA05008 | Hexagon socket set screw (M5x8)         |      |
|       | 6    | SPBB04008 | Pan head screw (cross recessed, M4x8)   |      |
|       | 9    | MPV00540  | Timing belt                             |      |
|       | 10   | HCG02340  | Upper shaft pulley                      |      |
|       | 11   | SCAA06008 | Hexagon socket head cap screw (M6x8)    |      |
|       | 12   | HCG02091  | Dial                                    |      |
|       | 13   | SCAA04006 | Hexagon socket head cap screw (M4x6)    |      |
|       | 14   | HCG02430  | Pointer                                 |      |
|       | 15   | SPDD03006 | Pan head screw (cross recessed, M3x6)   |      |
|       | 16   | M0408150  | Rubber cap (small)                      |      |
|       | 17   | WPAA06000 | Plain washer (M6)                       |      |
|       | 18   | WSAA06000 | Spring lock washer (M6)                 |      |
|       | 19   | SCAA06020 | Hexagon socket head cap screw (M6x20)   |      |
|       | 20   | HCG02330  | Tension plate B                         |      |
|       | 21   | SCAA06015 | Hexagon socket head cap screw (M6x15)   |      |
|       | 22   | M0408160  | Washer                                  |      |
|       | 23   | SCAA06025 | Hexagon socket head cap screw (M6x25)   |      |
|       | 24   | SCAA06018 | Hexagon socket head cap screw (M6x18)   |      |
|       | 26   | HCG02320  | Tension plate A                         |      |
|       | 27   | HCG02361  | Motor pulley                            |      |
|       | 28   | SSAA06008 | Hexagon socket set screw (M6x8)         |      |
|       | 29   | NHAA06000 | Hexagon nut (M6)                        |      |
|       | 30   | SHAD08015 | Hexagon head bolt (M8x15)               |      |
|       | 31   | WSAA08000 | Spring lock washer (M8)                 |      |
|       | 32   | SF402130  | Tension washer                          |      |
|       | 33   | MPR00440  | JO-ring (JO-42)                         |      |
|       | 34   | HCG02372  | Tension pulley                          |      |
|       | 35   | MPB00030  | Bearing (6004LLU)                       |      |
|       | 36   | HCG02380  | Tension shaft                           |      |
|       | 37   | WSAA12000 | Spring lock washer (M12)                |      |
|       | 38   | WPAA12000 | Plain washer (M12)                      |      |
|       | 40   | SCAA06010 | Hexagon socket head cap screw (M6x10)   |      |
|       | 44   | →2a       | Lower shaft (by model)                  |      |
|       | 45   | HCG02690  | Upper shaft collar B                    |      |
|       | 46   | HCG60170  | Main drive wheel C                      |      |
|       | 47   | SCAA05020 | Hexagon socket head cap screw (M5x20)   |      |
|       | 48   | STAB04006 | Truss head screw (cross recessed, M4x6) |      |
|       | 49   | HCG02660  | Fasten collar                           |      |
|       | 50   | MPB00880  | Bearing (6205ZZNR)                      |      |
|       | 51   | HCG02670  | Bush                                    |      |
|       | 52   | HCG02620  | Upper shaft plate                       |      |
|       | 53   | HCG02550  | Pulley box 2                            |      |
|       | 54   | HCG02650  | Lower shaft pulley                      |      |
|       | 55   | HCG02630  | Lower shaft plate                       |      |
|       | 56   | MPB00860  | Bearing (6004ZZNR)                      |      |
|       | 57   | HCG02680  | Lower shaft collar                      |      |



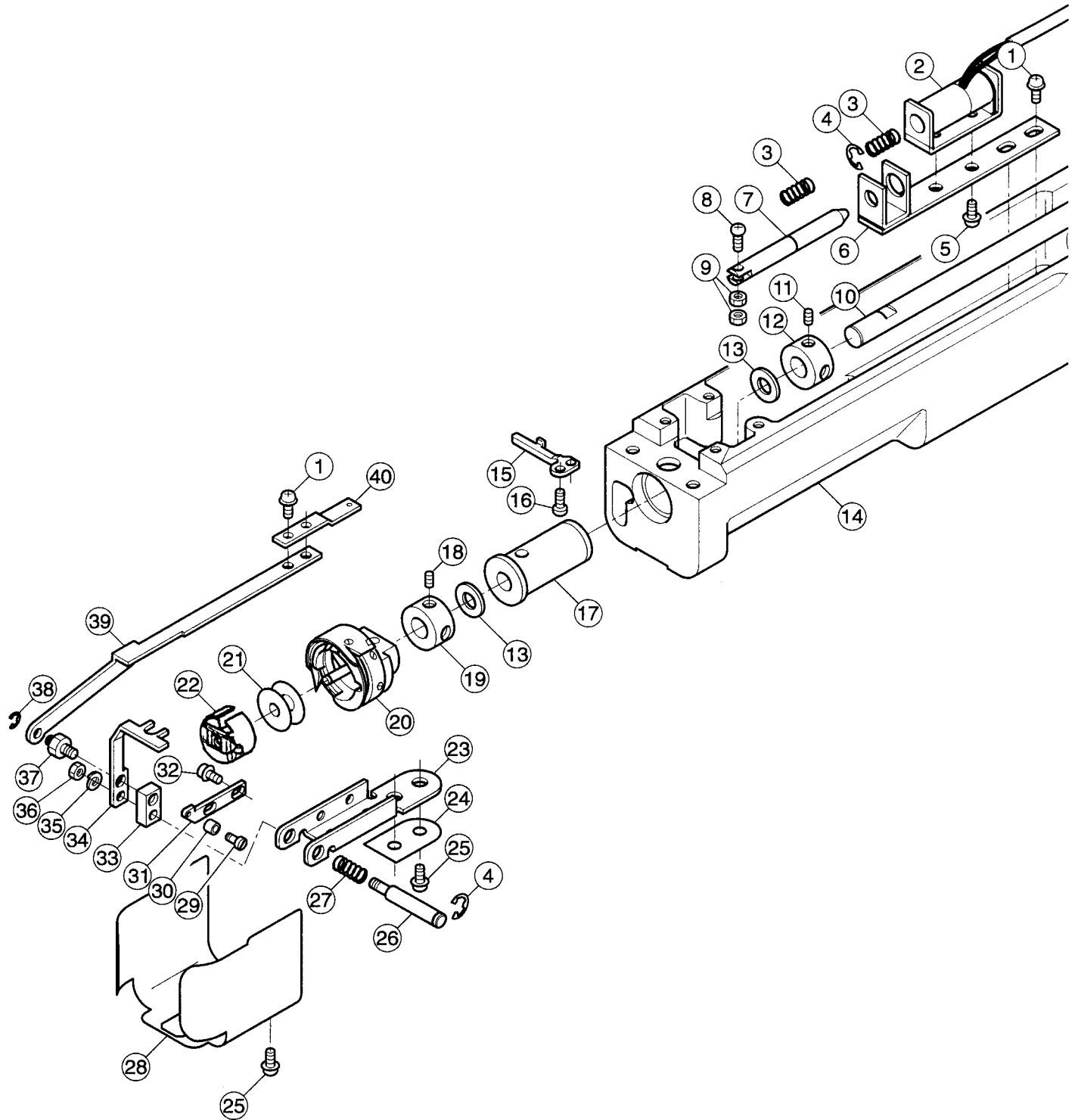


# TRANSMISSION UNIT 2

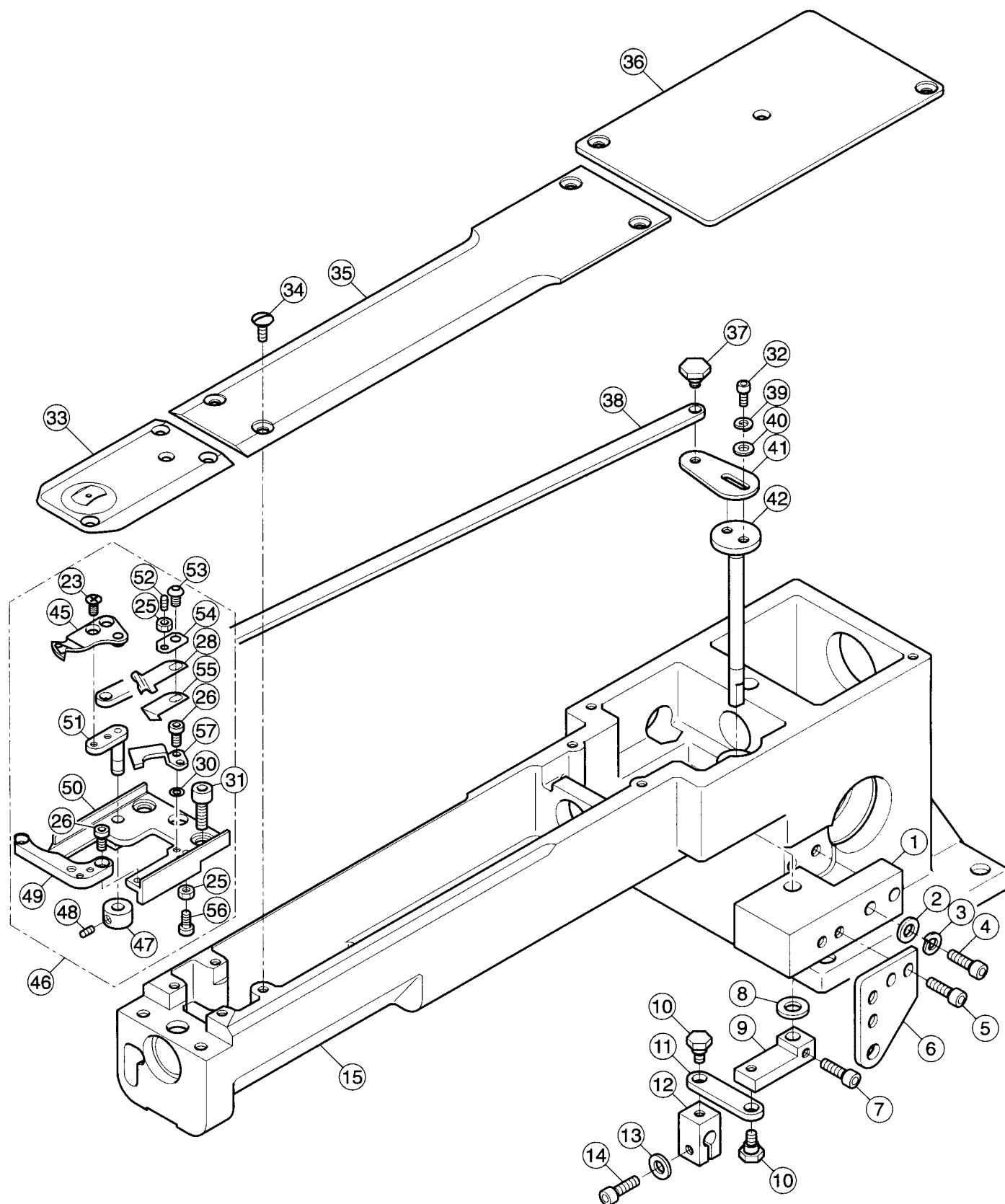
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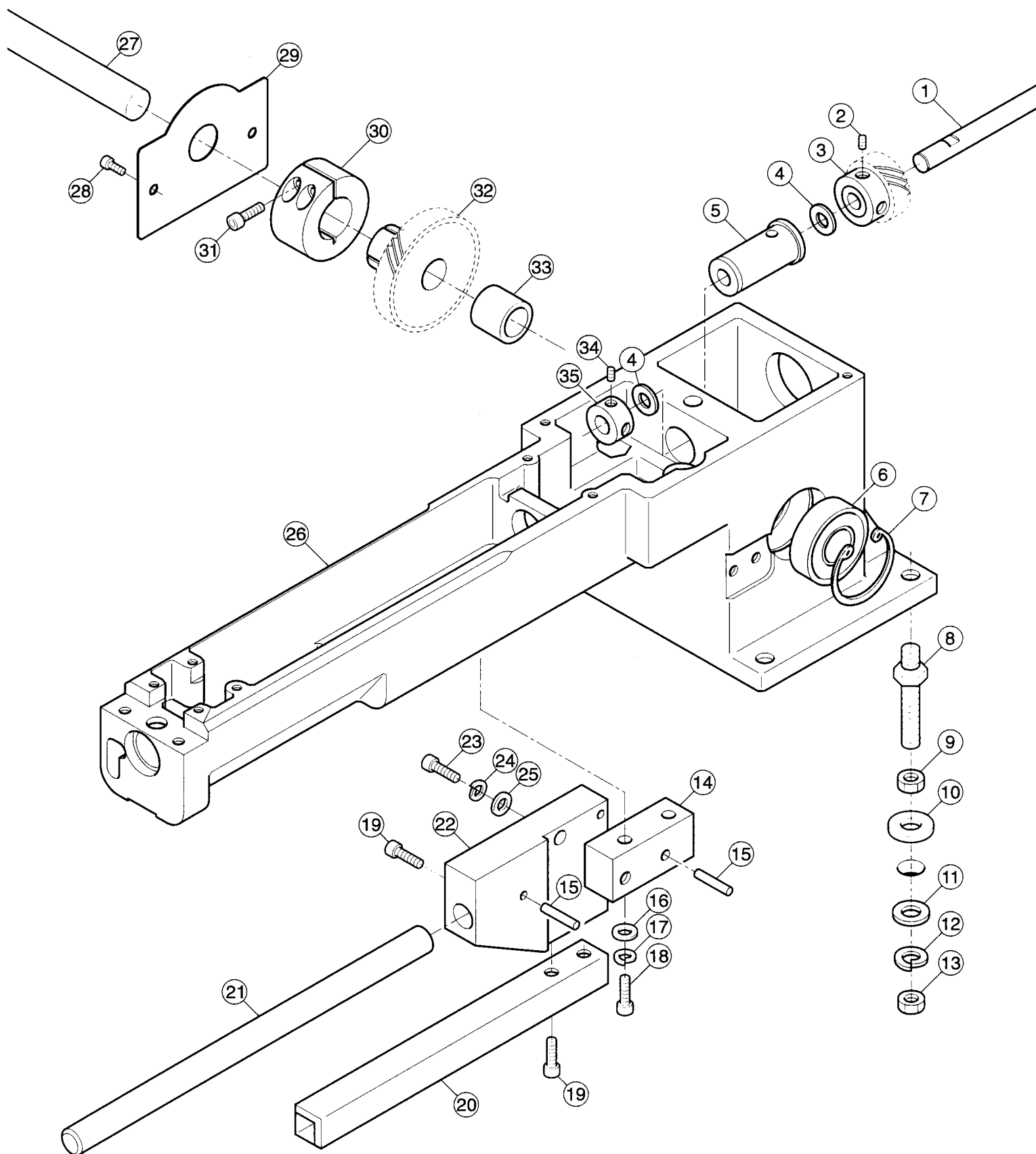
| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCG02503  | Motor cover                                      |      |
|       | 2    | SPDB04008 | Pan head screw (cross recessed, M4x8)            |      |
|       | 3    | SHAD08030 | Hexagon head bolt (M8x30)                        |      |
|       | 4    | WSAA08000 | Spring lock washer (M8)                          |      |
|       | 5    | WPAA08000 | Plain washer (M8)                                |      |
|       | 6    | HCG75010  | Drive motor                                      |      |
|       | 7    | →6a       | Motor pulley                                     |      |
|       | 8    | NHAA08000 | Hexagon nut (M8)                                 |      |
|       | 10   | SCBA04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 12   | STAB04006 | Truss head screw (cross recessed, M4x6)          |      |
|       | 13   | →6a       | Pulley box 2                                     |      |
|       | 14   | HCG02560  | Box cover 2                                      |      |



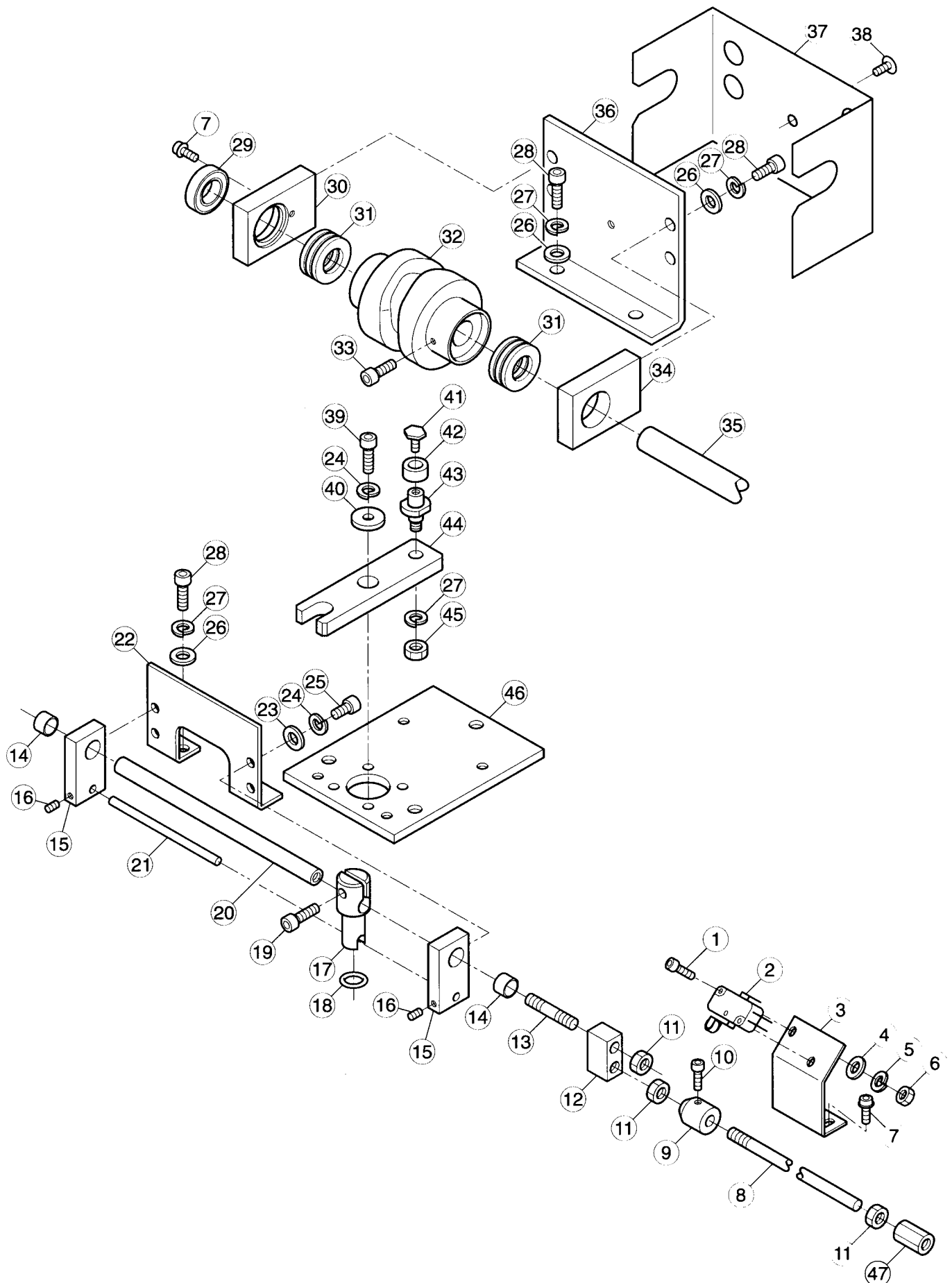
| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | SPDB04008 | Pan head screw (cross recessed, M4x8)            |      |
|       | 2    | HGX78002  | Keeper solenoid                                  |      |
|       | 3    | HCM04180  | Spring B                                         |      |
|       | 4    | MPR00420  | E-ring (E-4)                                     |      |
|       | 5    | SPDB03006 | Pan head screw (cross recessed, M3x6)            |      |
|       | 6    | HCM04171  | Solenoid base                                    |      |
|       | 7    | HCM04191  | Plunger                                          |      |
|       | 8    | SPAC2C010 | Pan head screw (cross recessed, M2.3x10)         |      |
|       | 9    | NHAC2C000 | Hexagon nut (M2.3)                               |      |
|       | 10   | HCM04531  | Rotary hook shaft (for Y480)                     |      |
|       | 11   | SSAA04004 | Hexagon socket set screw (M4x4)                  |      |
|       | 12   | HCM04680  | Stopping collar A                                |      |
|       | 13   | MPB00120  | Plastic thrust washer (TW0815)                   |      |
|       | 14   | HCG04014  | Bed                                              |      |
|       | 15   | HCM04232  | Rotary hook retainer                             |      |
|       | 16   | SAAA03006 | Hexagon socket button head screw (M3x6)          |      |
|       | 17   | HCG04035  | Bushing for rotary hook shaft                    |      |
|       | 18   | SSAA05006 | Hexagon socket set screw (M5x6)                  |      |
|       | 19   | HMF04190  | Stopping collar                                  |      |
|       | 20   | MPZ00050  | Rotary hook                                      |      |
|       | 20   | MPZ00540  | Rotary hook (for thick thread)                   |      |
|       | 21   | MPZ00550  | Bobbin                                           |      |
|       | 22   | MPZ00080  | Bobbin case                                      |      |
|       | 23   | HCM04144  | Shaft holder                                     |      |
|       | 24   | HCM04650  | Hinge spacer                                     |      |
|       | 25   | SPDB04010 | Pan head screw (cross recessed, M4x10)           |      |
|       | 26   | HCM04160  | Keeper shaft                                     |      |
|       | 27   | HCM04150  | Spring A                                         |      |
|       | 28   | HCG04230  | Keeper cover                                     |      |
|       | 29   | HCM04490  | Stopper pin                                      |      |
|       | 30   | HCM04510  | Stopper                                          |      |
|       | 31   | HCM04480  | Stopper bracket                                  |      |
|       | 32   | SCBA03006 | Hexagon socket head cap screw with flange (M3x6) |      |
|       | 33   | HCM04131  | Fulcrum block                                    |      |
|       | 34   | HCM04413  | Keeper                                           |      |
|       | 35   | WSAD03000 | Spring lock washer (M3)                          |      |
|       | 36   | NHAD03000 | Hexagon nut (M3)                                 |      |
|       | 37   | HCM04121  | Fulcrum pin                                      |      |
|       | 38   | MPR00290  | E-ring (E-3)                                     |      |
|       | 39   | HCM04203  | Keeper actuating plate A                         |      |
|       | 40   | HCM04211  | Keeper actuating plate B                         |      |



| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | HCM04092  | Link base                               |      |
|       | 2    | WPAA05000 | Plain washer (M5)                       |      |
|       | 3    | WSAA05000 | Spring lock washer (M5)                 |      |
|       | 4    | SCAA05020 | Hexagon socket head cap screw (M5x20)   |      |
|       | 5    | SCAA04010 | Hexagon socket head cap screw (M4x10)   |      |
|       | 6    | HMF04050  | Support for moving shaft                |      |
|       | 7    | SCAA04008 | Hexagon socket head cap screw (M4x8)    |      |
|       | 8    | WPAA06000 | Plain washer (M6)                       |      |
|       | 9    | M0404240  | Drive arm for knife                     |      |
|       | 10   | M0404263  | Hinge screw for link                    |      |
|       | 11   | M0404250  | Link                                    |      |
|       | 12   | M0404271  | Fasten block for thread cut shaft       |      |
|       | 13   | WPAA04000 | Plain washer (M4)                       |      |
|       | 14   | SCCA04015 | Hexagon socket head cap screw (M4x15)   |      |
|       | 15   | HCG04014  | Bed                                     |      |
| 46 *  | 23   | HMF04260  | Flat head screw                         |      |
| 46 *  | 25   | NHCA03000 | Hexagon nut (M3)                        |      |
| 46 *  | 26   | SCAA03004 | Hexagon socket head cap screw (M3x4)    |      |
| 46 *  | 28   | HCM04580  | Bobbin thread holder                    |      |
| 46 *  | 30   | MPZ02230  | Washer                                  |      |
|       | 31   | SCAA05010 | Hexagon socket head cap screw (M5x10)   |      |
|       | 32   | SCAA03006 | Hexagon socket head cap screw (M3x6)    |      |
|       | 33   | HCM04750  | Needle plate                            |      |
|       | 34   | MPZ00040  | Screw for needle plate                  |      |
|       | 35   | HCM04050  | Cover B (for Y480)                      |      |
|       | 36   | HCM04041  | Cover A                                 |      |
|       | 37   | HCM04252  | Hinge screw for link                    |      |
|       | 38   | HCM04223  | Rod (for Y480)                          |      |
|       | 39   | WSAA03000 | Spring lock washer (M3)                 |      |
|       | 40   | WPAA03000 | Plain washer (M3)                       |      |
|       | 41   | HCM04550  | Link C                                  |      |
|       | 42   | C0404301  | Drive shaft for link                    |      |
| 46 *  | 45   | HCM04293  | Knife                                   |      |
|       | 46   | HCA04030  | Thread cutting device ass'y             |      |
| 46 *  | 47   | HCA04060  | Knife drive shaft retainer              |      |
| 46 *  | 48   | SSAA04004 | Hexagon socket set screw (M4x4)         |      |
| 46 *  | 49   | HCA04070  | Rotary hook retainer base               |      |
| 46 *  | 50   | HCA04040  | Thread cutting device base              |      |
| 46 *  | 51   | HCA04050  | Knife drive shaft                       |      |
| 46 *  | 52   | SSAA03003 | Hexagon socket set screw (M3x3)         |      |
| 46 *  | 53   | SAAA03005 | Hexagon socket button head screw (M3x5) |      |
| 46 *  | 54   | HCA04090  | Holder retainer                         |      |
| 46 *  | 55   | HCA04082  | Holder support                          |      |
| 46 *  | 56   | SCAA03012 | Hexagon socket head cap screw (M3x12)   |      |
| 46 *  | 57   | HCA04100  | Fixed knife                             |      |



| Ass'y | El't | Parts No. | Parts Names                           | Note |
|-------|------|-----------|---------------------------------------|------|
|       | 1    | HCM04531  | Rotary hook shaft (for Y480)          |      |
|       | 2    | SSAA05008 | Hexagon socket set screw (M5x8)       |      |
|       | 3    | HMF04060  | Gear for rotary hook shaft            |      |
|       | 4    | MPB00120  | Plastic thrust washer (TW0815)        |      |
|       | 5    | HCG04035  | Bushing for rotary hook shaft         |      |
|       | 6    | MPB00150  | Bearing (6202LLU)                     |      |
|       | 7    | MPR00410  | C-ring (C-35)                         |      |
|       | 8    | HCG04200  | Stud                                  |      |
|       | 9    | NHBA08000 | Hexagon nut (M8)                      |      |
|       | 10   | HCG04211  | Washer                                |      |
|       | 11   | WPAA08000 | Plain washer (M8)                     |      |
|       | 12   | WSAA08000 | Spring lock washer (M8)               |      |
|       | 13   | NHAA08000 | Hexagon nut (M8)                      |      |
|       | 14   | HCM04540  | Holder (for Y480, standard hook)      |      |
|       | 15   | MPP00090  | Spring pin (4x20)                     |      |
|       | 16   | WPAA05000 | Plain washer (M5)                     |      |
|       | 17   | WSAA05000 | Spring lock washer (M5)               |      |
|       | 18   | SCAA05035 | Hexagon socket head cap screw (M5x35) |      |
|       | 19   | SCAD06010 | Hexagon socket head cap screw (M6x10) |      |
|       | 20   | FRA43872  | Guide shaft for cap frame             |      |
|       | 21   | FRA43860  | Fulcrum shaft for cap frame           |      |
|       | 22   | HCM04672  | Fulcrum shaft holder                  |      |
|       | 23   | SCAA06035 | Hexagon socket head cap screw (M6x35) |      |
|       | 24   | WSAA06000 | Spring lock washer (M6)               |      |
|       | 25   | WPAA06000 | Plain washer (M6)                     |      |
|       | 26   | HCG04014  | Bed                                   |      |
|       | 27   | →2a       | Lower shaft (by model)                |      |
|       | 28   | SCAA04006 | Hexagon socket head cap screw (M4x6)  |      |
|       | 29   | C0404031  | Side cover                            |      |
|       | 30   | M0404123  | Fasten collar                         |      |
|       | 31   | SCAA04015 | Hexagon socket head cap screw (M4x15) |      |
|       | 32   | SF404070  | Drive spiral gear                     |      |
|       | 33   | SF404030  | Spiral gear collar                    |      |
|       | 34   | SSAA04004 | Hexagon socket set screw (M4x4)       |      |
|       | 35   | HCM04680  | Stopping collar A                     |      |



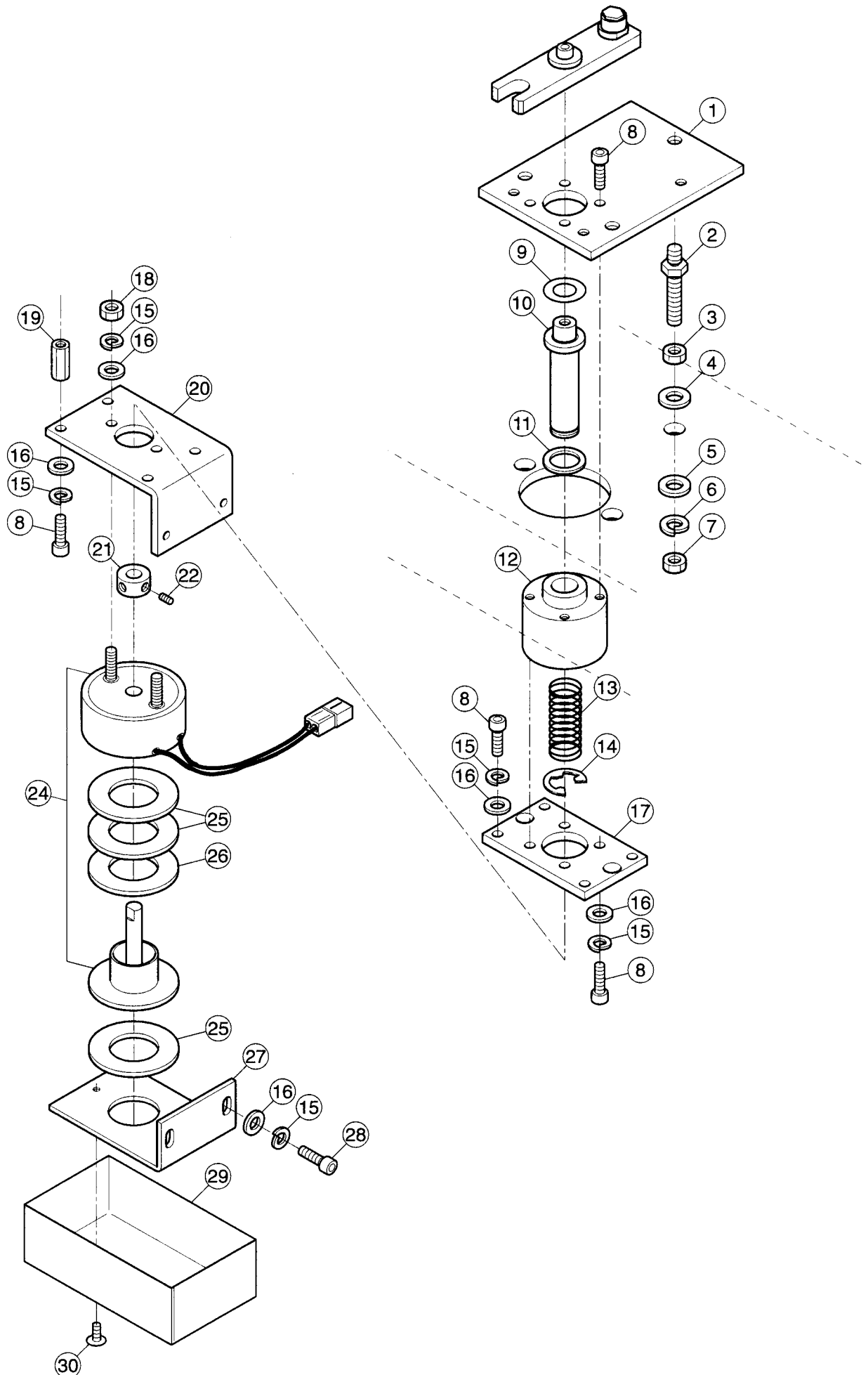


# THREAD CUTTING DRIVER 1

CGa3709

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| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | SCAA03015 | Hexagon socket head cap screw (M3x15)            |      |
|       | 2    | EPS00010  | Micro switch                                     |      |
|       | 3    | HCG06370  | Micro switch bracket                             |      |
|       | 4    | WPAA03000 | Plain washer (M3)                                |      |
|       | 5    | WSAA03000 | Spring lock washer (M3)                          |      |
|       | 6    | NHAA03000 | Hexagon nut (M3)                                 |      |
|       | 7    | SCBA04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 8    | →9a       | Moving shaft (by model)                          |      |
|       | 9    | M0406101  | LS dog                                           |      |
|       | 10   | SCAA04008 | Hexagon socket head cap screw (M4x8)             |      |
|       | 11   | M0404280  | Nut                                              |      |
|       | 12   | HCG06320  | Connecting block                                 |      |
|       | 13   | HCG06300  | Bolt                                             |      |
|       | 14   | MPB00740  | Bushing                                          |      |
|       | 15   | HCG06280  | Shaft support                                    |      |
|       | 16   | SSAA04008 | Hexagon socket set screw (M4x8)                  |      |
|       | 17   | M0406142  | Lever drive pin                                  |      |
|       | 18   | MPR00490  | O-Ring (P-11)                                    |      |
|       | 19   | SCAA06020 | Hexagon socket head cap screw (M6x20)            |      |
|       | 20   | M0406161  | Slide shaft                                      |      |
|       | 21   | HCG06310  | Guide pin                                        |      |
|       | 22   | HCG06291  | Shaft support bracket                            |      |
|       | 23   | WPAA05000 | Plain washer (M5)                                |      |
|       | 24   | WSAA05000 | Spring lock washer (M5)                          |      |
|       | 25   | SCAA05012 | Hexagon socket head cap screw (M5x12)            |      |
|       | 26   | WPAA06000 | Plain washer (M6)                                |      |
|       | 27   | WSAA06000 | Spring lock washer (M6)                          |      |
|       | 28   | SCAA06015 | Hexagon socket head cap screw (M6x15)            |      |
|       | 29   | MPB00730  | Bearing (6902ZZ)                                 |      |
|       | 30   | HCG06220  | Cam support left                                 |      |
|       | 31   | MPB00160  | Thrust bearing (51102)                           |      |
|       | 32   | HCA06090  | Cam for thread cutting driver                    |      |
|       | 33   | SCAA06012 | Hexagon socket head cap screw (M6x12)            |      |
|       | 34   | HCG06210  | Cam support right                                |      |
|       | 35   | →2a       | Lower shaft (by model)                           |      |
|       | 36   | HCG06240  | Cam support bracket                              |      |
|       | 37   | HCG06252  | Cam cover                                        |      |
|       | 38   | STAB05006 | Truss head screw (cross recessed, M5x6)          |      |
|       | 39   | SCAA05015 | Hexagon socket head cap screw (M5x15)            |      |
|       | 40   | M0406410  | Washer                                           |      |
|       | 41   | M0406211  | Roller screw                                     |      |
|       | 42   | M0406220  | Thread cutting roller                            |      |
|       | 43   | M0406231  | Roller shaft                                     |      |
|       | 44   | HCG06270  | Cam lever                                        |      |
|       | 45   | NHAA06000 | Hexagon nut (M6)                                 |      |
|       | 46   | HCG06200  | Cam support base                                 |      |
|       | 47   | M0404292  | Joint                                            |      |

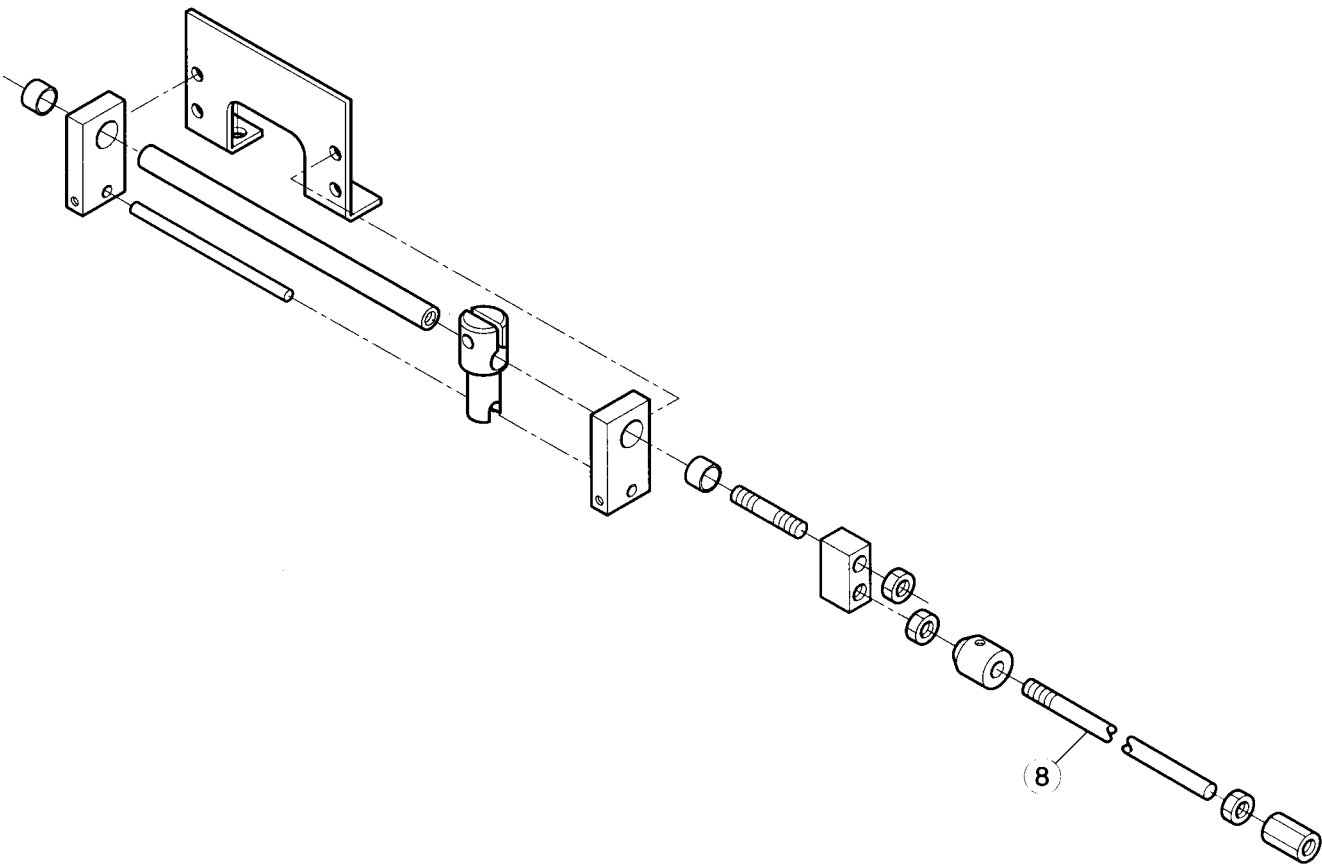
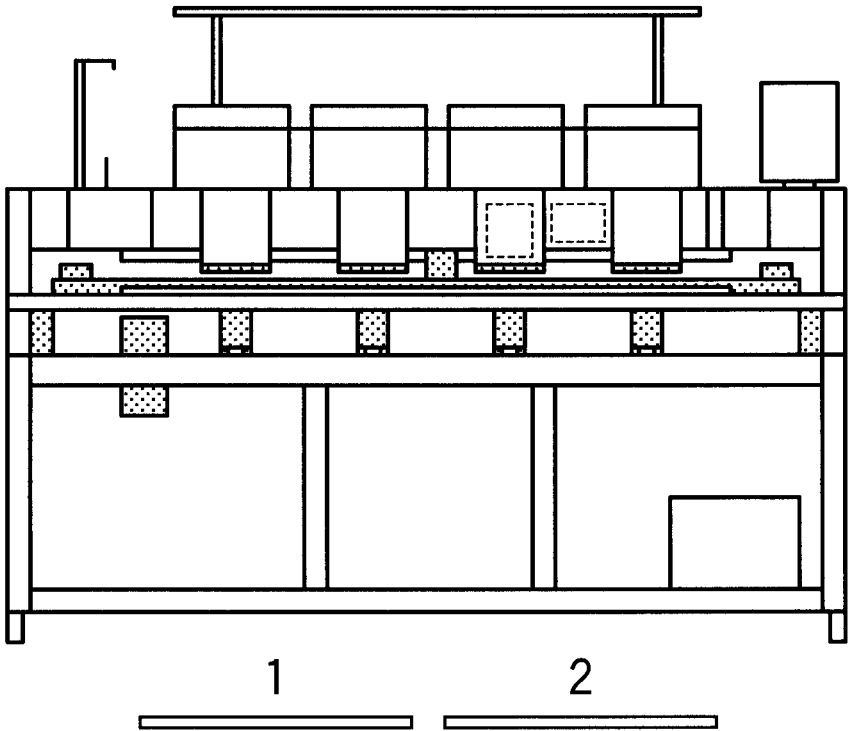


# THREAD CUTTING DRIVER 2

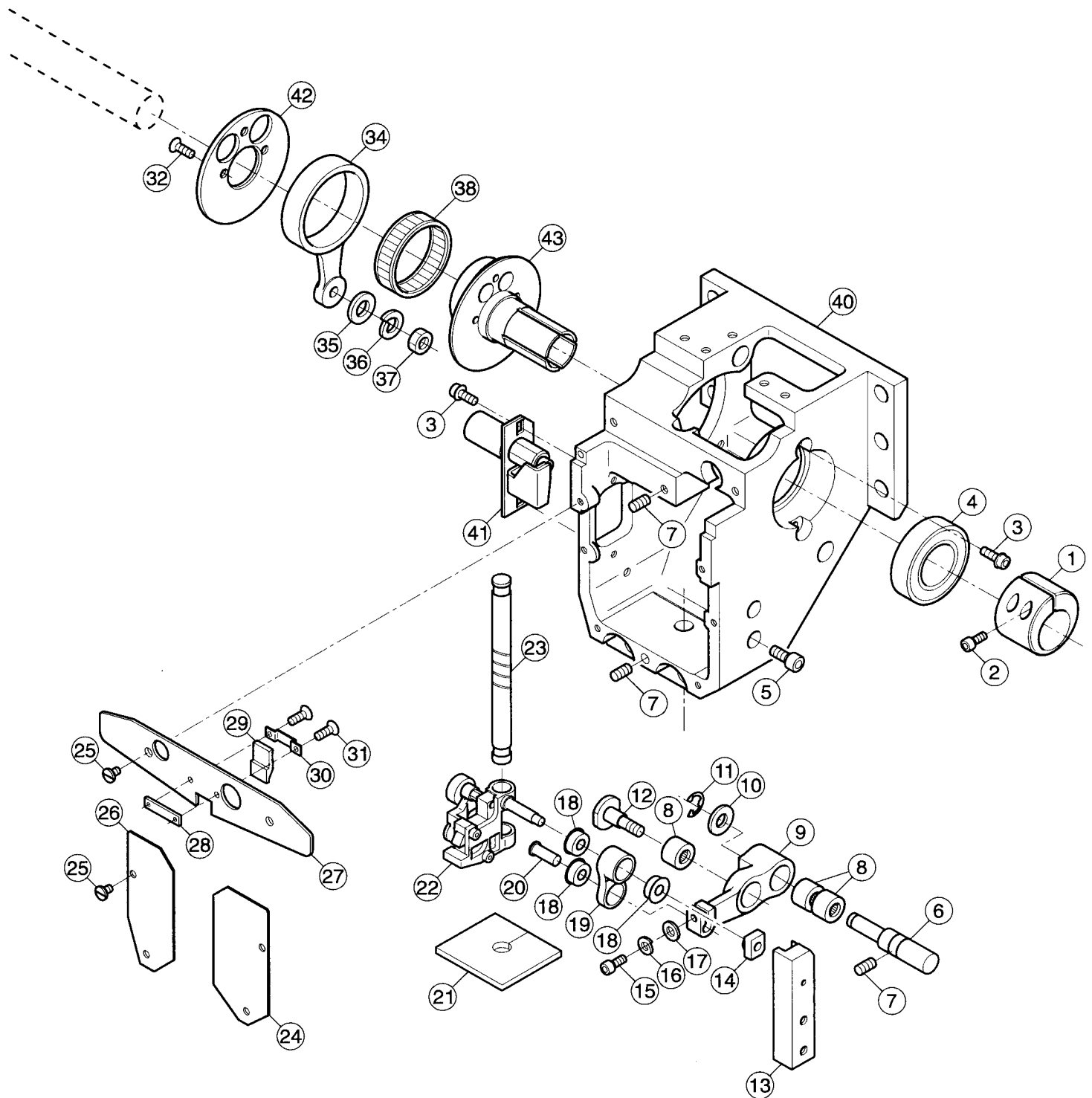
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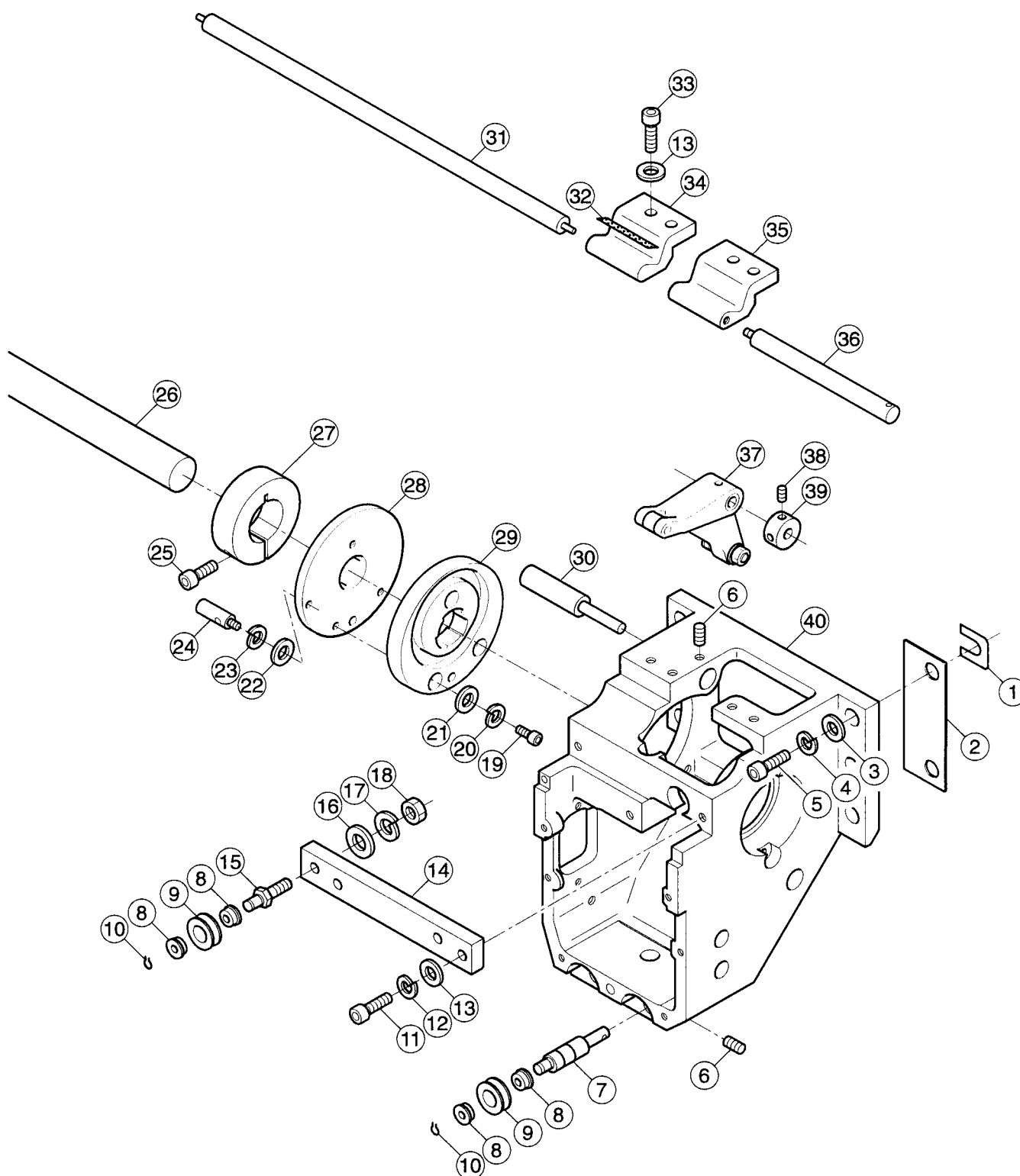
| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | HCG06200  | Cam support base                        |      |
|       | 2    | HCG04200  | Stud                                    |      |
|       | 3    | NHCA08000 | Hexagon nut (M8)                        |      |
|       | 4    | HCG04211  | Washer                                  |      |
|       | 5    | WPAD08000 | Plain washer (M8)                       |      |
|       | 6    | WSAD08000 | Spring lock washer (M8)                 |      |
|       | 7    | NHAD08000 | Hexagon nut (M8)                        |      |
|       | 8    | SCAA05015 | Hexagon socket head cap screw (M5x15)   |      |
|       | 9    | HCG06380  | Washer                                  |      |
|       | 10   | M0406252  | Lever shaft                             |      |
|       | 11   | M0406260  | Urethane washer                         |      |
|       | 12   | HCG06330  | Lever shaft support                     |      |
|       | 13   | M0406050  | Lever spring                            |      |
|       | 14   | MPR00430  | E-ring (E-12)                           |      |
|       | 15   | WSAA05000 | Spring lock washer (M5)                 |      |
|       | 16   | WPAA05000 | Plain washer (M5)                       |      |
|       | 17   | HCG06341  | Solenoid base                           |      |
|       | 18   | NHAA05000 | Hexagon nut (M5)                        |      |
|       | 19   | HMF06051  | Solenoid stud                           |      |
|       | 20   | HCG06350  | Fixing plate                            |      |
|       | 21   | HMF04190  | Collar                                  |      |
|       | 22   | SSAA05006 | Hexagon socket set screw (M5x6)         |      |
|       | 24   | HMX78020  | Thread cutting solenoid                 |      |
|       | 25   | M0406010  | Solenoid felt                           |      |
|       | 26   | HCG06400  | Solenoid felt B                         |      |
|       | 27   | HCG06020  | Felt base                               |      |
|       | 28   | SCAA05010 | Hexagon socket head cap screw (M5x10)   |      |
|       | 29   | HCG06360  | Solenoid cover                          |      |
|       | 30   | STAB04006 | Truss head screw (cross recessed, M4x6) |      |



| 指図 / E'l't<br>PARTS NAMES |             | 8<br>Moving shaft 1 | 8<br>Moving shaft 2 |  |
|---------------------------|-------------|---------------------|---------------------|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCM10370            | HCG06070            |  |
|                           | X 1 5 0 4 B | HMF06200            | -                   |  |
|                           | 1 5 0 4 B   | HMF06131            | -                   |  |
|                           | 1 5 0 2 B   | HCG06061            | -                   |  |
|                           |             |                     |                     |  |



| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCG08042  | Fasten collar                                    |      |
|       | 2    | SCAA04015 | Hexagon socket head cap screw (M4x15)            |      |
|       | 3    | SCBA04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 4    | MPB00670  | Bearing (6005LLB)                                |      |
|       | 5    | SCAA05012 | Hexagon socket head cap screw (M5x12)            |      |
|       | 6    | HCG08082  | Pin (for needle bar driving lever)               |      |
|       | 7    | SSAA05008 | Hexagon socket set screw (M5x8)                  |      |
|       | 8    | MPB00680  | Needle bearing (RNAO-8x15x10T2)                  |      |
|       | 9    | HCG08062  | Needle bar driving lever                         |      |
|       | 10   | WPAA08000 | Plain washer (M8)                                |      |
|       | 11   | MPR00060  | E-ring (E-7)                                     |      |
|       | 12   | HCG08074  | Pin (for coupling rod)                           |      |
|       | 13   | HCG08140  | Guide rail                                       |      |
|       | 14   | M0408230  | Slide block                                      |      |
|       | 15   | SCAA04012 | Hexagon socket head cap screw (M4x12)            |      |
|       | 16   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 17   | WPBA04000 | Plain washer (M4)                                |      |
|       | 18   | MPB00660  | Miniature bearing (LFW686ZZA)                    |      |
|       | 19   | HCG08092  | Link                                             |      |
|       | 20   | HCG08102  | Pin (for link)                                   |      |
|       | 21   | HMG08150  | Felt (for fixed head)                            |      |
|       | 22   | HCA08023  | Needle bar driver                                |      |
|       | 23   | HMF08040  | Slide shaft                                      |      |
|       | 24   | HMG08110  | Lower face plate (right)                         |      |
|       | 25   | M0408440  | Face plate screw                                 |      |
|       | 26   | HMG08100  | Lower face plate (left)                          |      |
|       | 27   | HMG08120  | Upper face plate C                               |      |
|       | 28   | M0408430  | Plate nut                                        |      |
|       | 29   | HMG08130  | Cushion B                                        |      |
|       | 30   | M0408423  | Holding plate                                    |      |
|       | 31   | SGAB2E005 | Flat head screw (cross recessed head, M2.5x5)    |      |
|       | 32   | SCDA04008 | Hexagon socket flat head screw (M4x8)            |      |
|       | 34   | HCG08051  | Connecting rod                                   |      |
|       | 35   | WPAA06000 | Plain washer (M6)                                |      |
|       | 36   | WSAA06000 | Spring lock washer (M6)                          |      |
|       | 37   | NHAA06000 | Hexagon nut (M6)                                 |      |
|       | 38   | MPB00690  | Needle bearing (K40x45x13)                       |      |
|       | 40   | HCG08390  | Fixed head B                                     |      |
|       | 41   | HMF08290  | Jump solenoid ass'y                              |      |
|       | 42   | HCG08320  | Plate B                                          |      |
|       | 43   | HCG08340  | Needle bar cam D                                 |      |



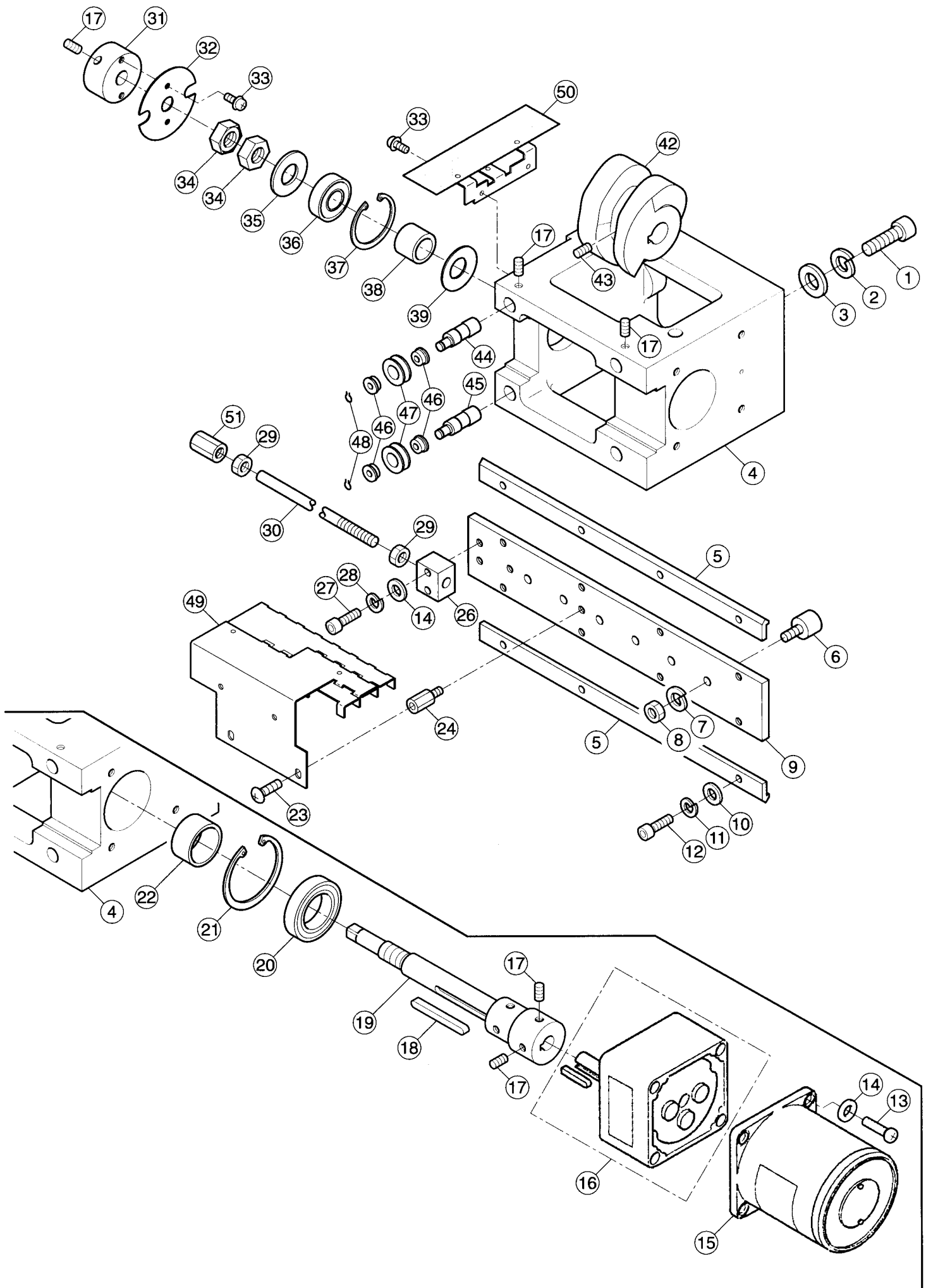


| Ass'y | El't | Parts No. | Parts Names                                     | Note |
|-------|------|-----------|-------------------------------------------------|------|
|       | 1    | HCG08230  | Spacer (1.0mm)                                  |      |
|       | 1    | HCG08240  | Spacer (0.8mm)                                  |      |
|       | 1    | HCG08250  | Spacer (0.5mm)                                  |      |
|       | 1    | HCG08260  | Spacer (0.3mm)                                  |      |
|       | 1    | HCG08280  | Spacer (0.2mm)                                  |      |
|       | 1    | HCG08270  | Spacer (0.1mm)                                  |      |
|       | 2    | HMF08074  | Head spacer                                     |      |
|       | 3    | WPAA08000 | Plain washer (M8)                               |      |
|       | 4    | WSAA08000 | Spring lock washer (M8)                         |      |
|       | 5    | SCAA08025 | Hexagon socket head cap screw (M8x25)           |      |
|       | 6    | SSAA05008 | Hexagon socket set screw (M5x8)                 |      |
|       | 7    | HMF08172  | Lower roller pin                                |      |
|       | 8    | MPB00240  | Bearing (LF1060ZZ)                              |      |
|       | 9    | M0408484  | Bearing case                                    |      |
|       | 10   | MPR00280  | DIN-ring (G-6)                                  |      |
|       | 11   | SCAA05020 | Hexagon socket head cap screw (M5x20)           |      |
|       | 12   | WSAA05000 | Spring lock washer (M5)                         |      |
|       | 13   | WPAA05000 | Plain washer (M5)                               |      |
|       | 14   | HCG08171  | Roller pin guide                                |      |
|       | 15   | HMF08062  | Upper roller pin                                |      |
|       | 16   | WPAA06000 | Plain washer (M6)                               |      |
|       | 17   | WSAA06000 | Spring lock washer (M6)                         |      |
|       | 18   | NHAA06000 | Hexagon nut (M6)                                |      |
|       | 19   | SCAA04010 | Hexagon socket head cap screw (M4x10)           |      |
|       | 20   | WSAA04000 | Spring lock washer (M4)                         |      |
|       | 21   | WPBA04000 | Plain washer (M4)                               |      |
|       | 22   | WPAB04000 | Plain washer (M4)                               |      |
|       | 23   | WSAB04000 | Spring lock washer (M4)                         |      |
|       | 24   | C0408051  | Positioning pin                                 |      |
|       | 25   | SCAA06020 | Hexagon socket head cap screw (M6x20)           |      |
|       | 26   | →2a       | Upper shaft (by model)                          |      |
|       | 27   | C0408040  | Fasten collar                                   |      |
|       | 28   | C0408030  | Take-up lever cam fixing plate                  |      |
|       | 29   | HMF08270  | Take-up lever cam                               |      |
|       | 30   | HCG08150  | Cam lever shaft                                 |      |
|       | 31   | HCG08220  | Take-up lever guide bar (for 1506B, 1504B type) |      |
|       | 32   | HMF08210  | Take-up lever base tape                         |      |
|       | 33   | SCAA05015 | Hexagon socket head cap screw (M5x15)           |      |
|       | 34   | HMF08091  | Take-up lever guide base (left)                 |      |
|       | 35   | HMF08101  | Take-up lever guide base (right)                |      |
|       | 36   | HMG08060  | Take-up lever guide bar (for 15 needle)         |      |
|       | 37   | C0408065  | Cam lever ass'y                                 |      |
|       | 38   | SSAA04006 | Hexagon socket set screw (M4x6)                 |      |
|       | 39   | HCG08160  | Cam lever shaft collar                          |      |
|       | 40   | HCG08390  | Fixed head B                                    |      |

# NEEDLE BAR CHANGE UNIT

CGB3709

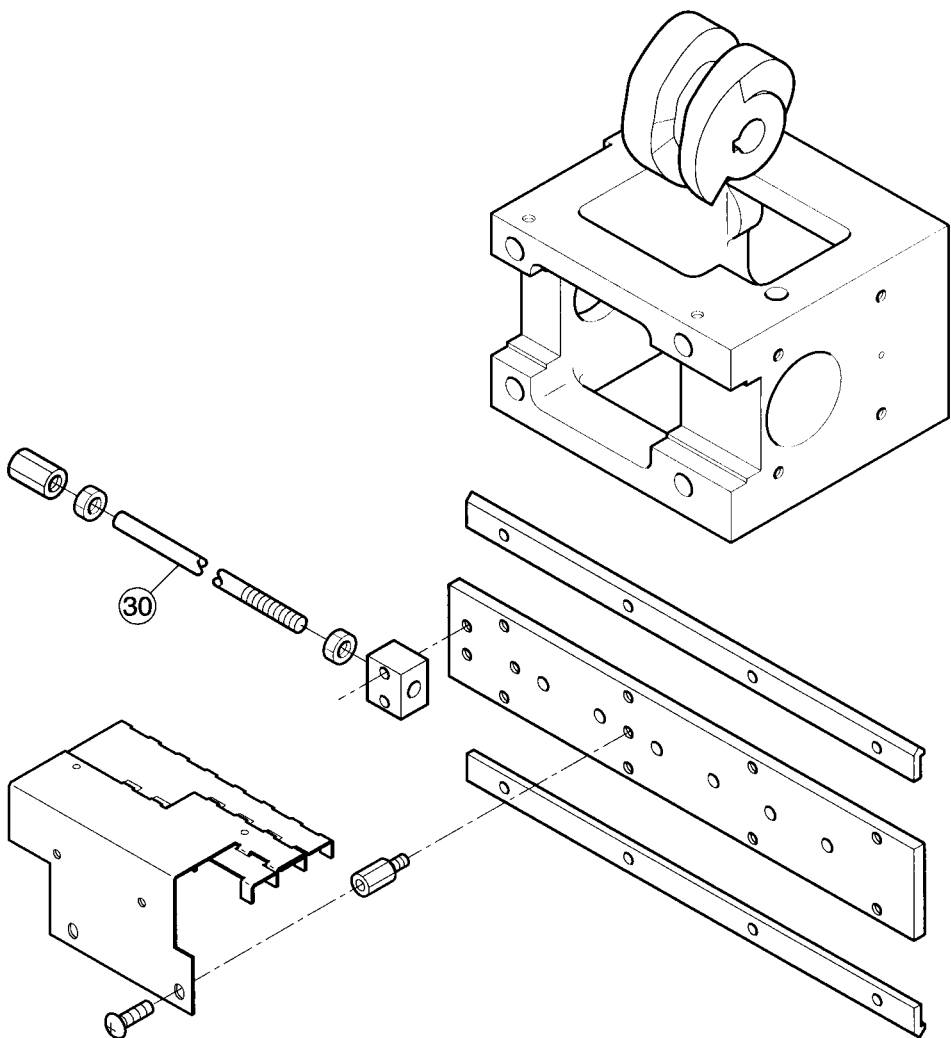
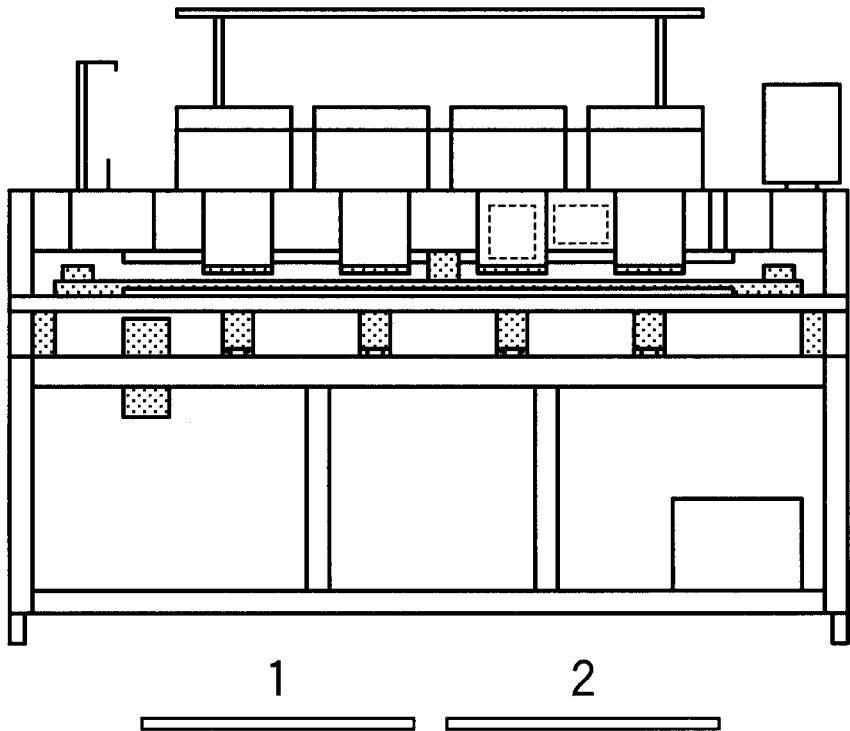
11a-1



# NEEDLE BAR CHANGE UNIT

CGb3709 11a-1

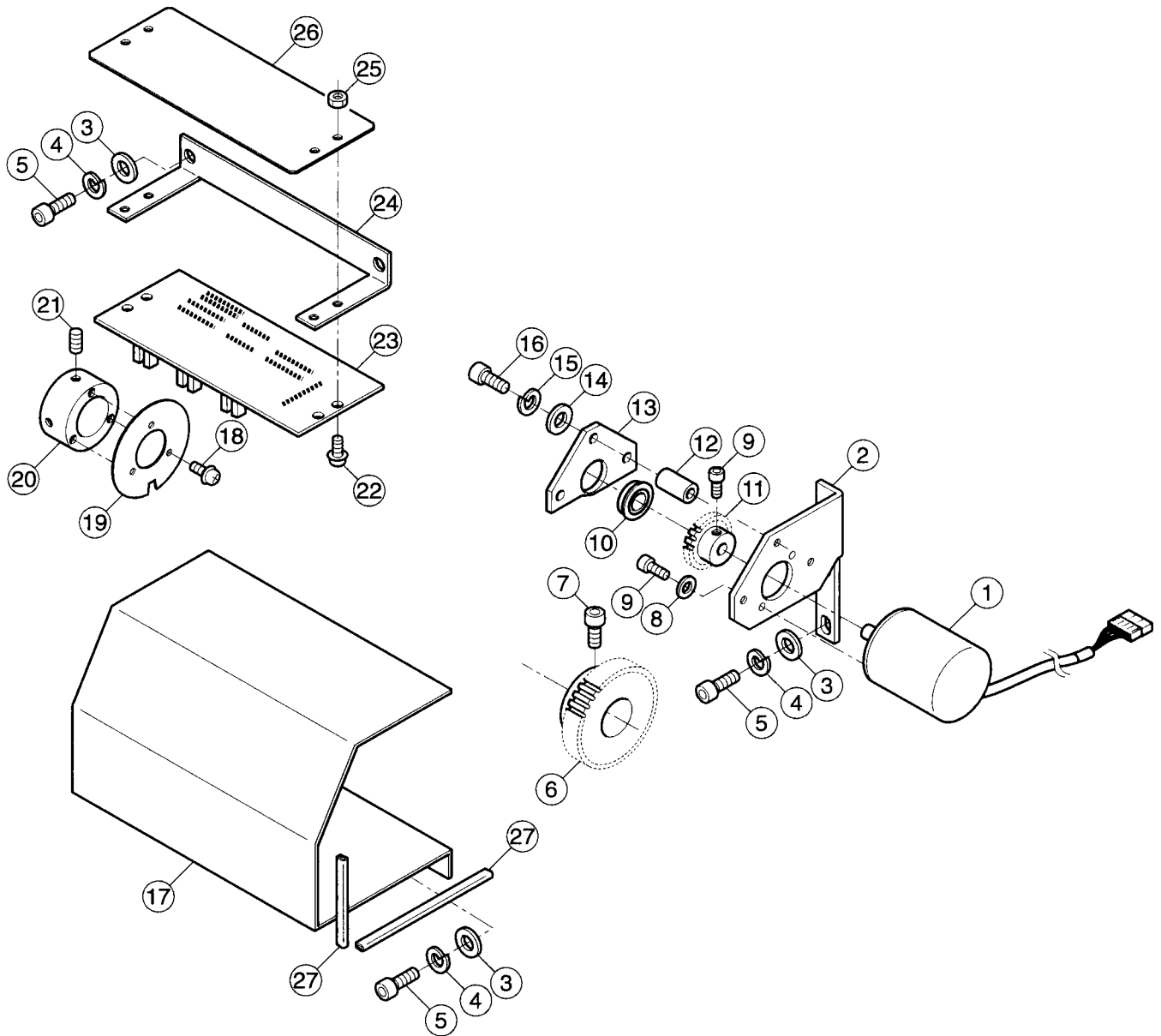
| Ass'y | El't | Parts No. | Parts Names                                         | Note |
|-------|------|-----------|-----------------------------------------------------|------|
|       | 1    | SCAA08025 | Hexagon socket head cap screw (M8x25)               |      |
|       | 2    | WSAA08000 | Spring lock washer (M8)                             |      |
|       | 3    | WPAA08000 | Plain washer (M8)                                   |      |
|       | 4    | HCG10112  | Base                                                |      |
|       | 5    | HMG10060  | Rail (for 15 needle)                                |      |
|       | 6    | MPB00230  | Cam follower (with nut, KR16XLL)                    |      |
|       | 7    | WSAA06000 | Spring lock washer (M6)                             |      |
|       | 8    | NHAA06000 | Hexagon nut (M6)                                    |      |
|       | 9    | HMG10050  | Slide bar (for 15 needle)                           |      |
|       | 10   | WPAD05000 | Plain washer (M5)                                   |      |
|       | 11   | WSAD05000 | Spring lock washer (M5)                             |      |
|       | 12   | SCAD05012 | Hexagon socket head cap screw (M5x12)               |      |
|       | 13   | SPAA05050 | Pan head screw (cross recessed, M5x50)              |      |
|       | 14   | WPAA05000 | Plain washer (M5)                                   |      |
|       | 15   | HCG75021  | Motor                                               |      |
|       | 16   | EPM00390  | Gear head                                           |      |
|       | 17   | SSAA05008 | Hexagon socket set screw (M5x8)                     |      |
|       | 18   | MPK00010  | Key (both round, 5x5x47)                            |      |
|       | 19   | HMF10020  | Drive shaft ass'y                                   |      |
|       | 20   | MPB00610  | Bearing (6905ZZ)                                    |      |
|       | 21   | MPR00440  | JO-ring (JO-42)                                     |      |
|       | 22   | HMF10060  | Collar                                              |      |
|       | 23   | STAB05006 | Truss head screw (cross recessed, M5x6)             |      |
|       | 24   | MPZ02020  | Spacer (BSB-515)                                    |      |
|       | 26   | HCG10231  | Shaft holder                                        |      |
|       | 27   | SCAA05025 | Hexagon socket head cap screw (M5x25)               |      |
|       | 28   | WSAA05000 | Spring lock washer (M5)                             |      |
|       | 29   | M0404280  | Nut                                                 |      |
|       | 30   | →12a      | Moving shaft (by model)                             |      |
|       | 31   | HMF10080  | Slit disc boss                                      |      |
|       | 32   | HMF10072  | Slit disc                                           |      |
|       | 33   | SPDD03006 | Pan head screw (cross recessed, M3x6)               |      |
|       | 34   | NHAB12000 | Hexagon nut (M12)                                   |      |
|       | 35   | WPAB14000 | Plain washer (M14)                                  |      |
|       | 36   | MPB00220  | Bearing (6002ZZ)                                    |      |
|       | 37   | MPR00070  | C-ring (C-32)                                       |      |
|       | 38   | M0410082  | Collar A                                            |      |
|       | 39   | MPS00050  | Conical spring                                      |      |
|       | 42   | M0410070  | grooved cam                                         |      |
|       | 43   | SSAA04008 | Hexagon socket set screw (M4x8)                     |      |
|       | 44   | HMF10152  | Upper pin                                           |      |
|       | 45   | HMF10172  | Lower pin                                           |      |
|       | 46   | MPB00240  | Bearing (LF1060ZZ)                                  |      |
|       | 47   | M0408484  | Bearing case                                        |      |
|       | 48   | MPR00280  | DIN-ring (G-6)                                      |      |
|       | 49   | HMG10170  | Needle bar position detecting plate (for 15 needle) |      |
|       | 50   | HCG83181  | Needle bar position detecting board ass'y           |      |
|       | 51   | M0404292  | Joint                                               |      |



# NEEDLE BAR CHANGE UNIT

CGb3709 12a-1

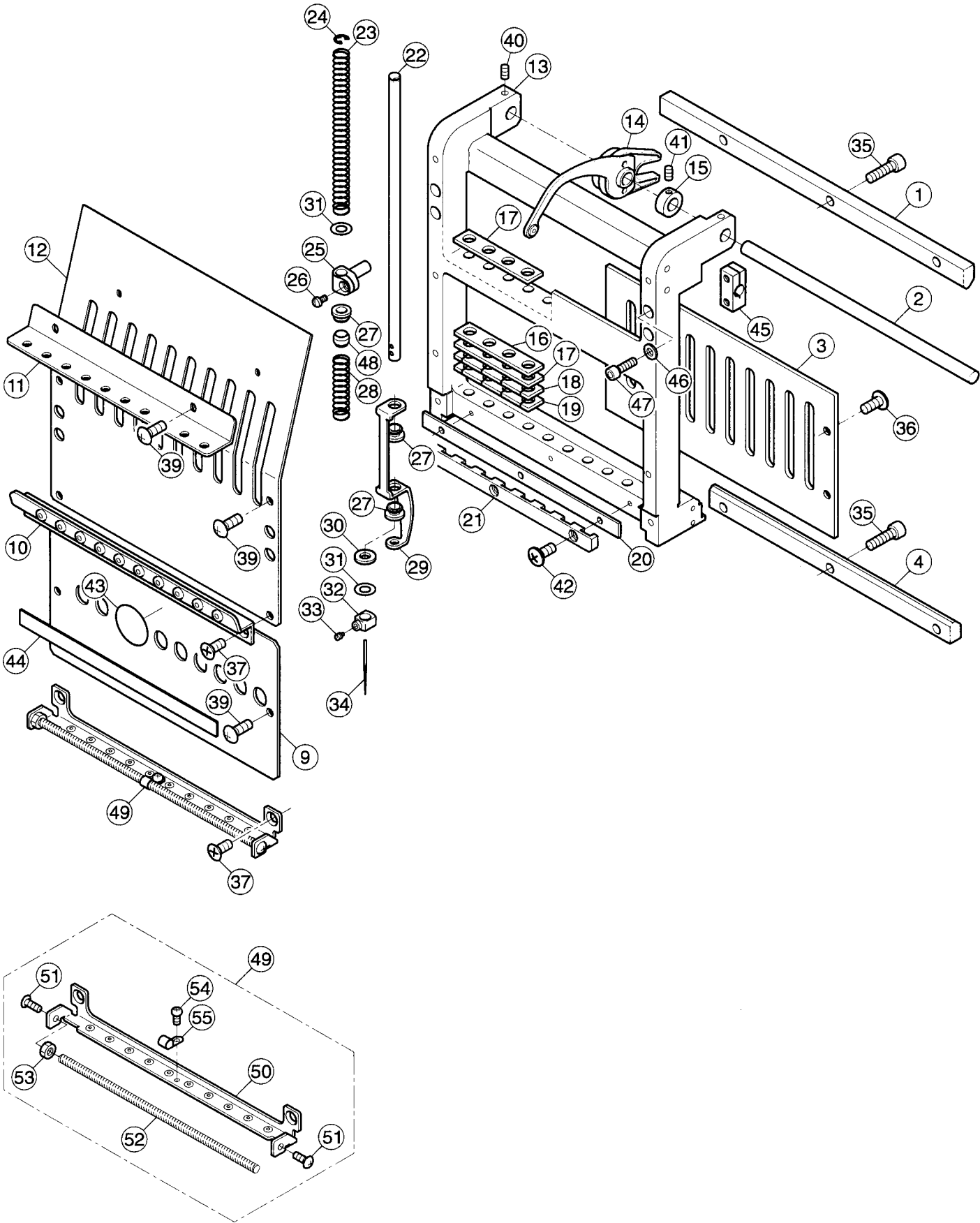
| 指図 / El't<br>PARTS NAMES |             | 3 0<br>Moving shaft 1 | 3 0<br>Moving shaft 2 |  |
|--------------------------|-------------|-----------------------|-----------------------|--|
| 機種<br>MODEL              | 1 5 0 6 B   | HCM10370              | HCG06070              |  |
|                          | X 1 5 0 4 B | HMF06200              | -                     |  |
|                          | 1 5 0 4 B   | HMF06131              | -                     |  |
|                          | 1 5 0 2 B   | HMF06210              | -                     |  |
|                          |             |                       |                       |  |



# TIMING DETECTING UNIT

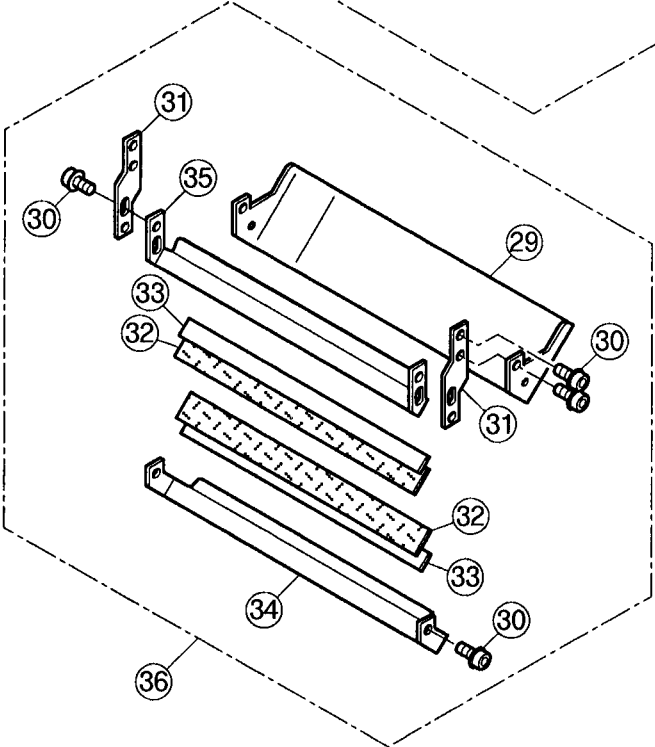
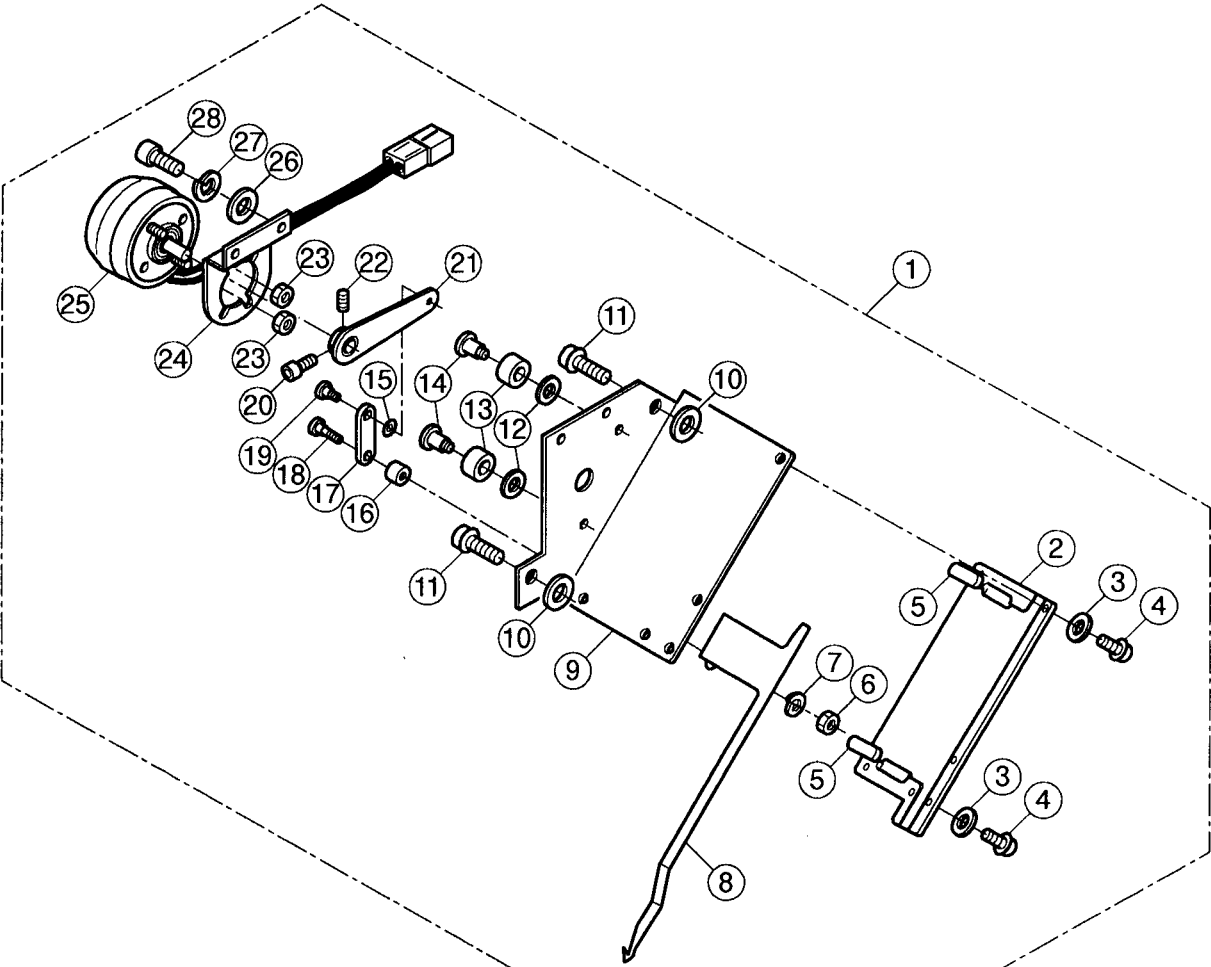
CGa0623 13a-1

| Ass'y | El't | Parts No. | Parts Names                           | Note |
|-------|------|-----------|---------------------------------------|------|
|       | 1    | HCG75001  | Rotary encoder                        |      |
|       | 2    | HMF10194  | Encoder bracket A                     |      |
|       | 3    | WPAA05000 | Plain washer (M5)                     |      |
|       | 4    | WSAA05000 | Spring lock washer (M5)               |      |
|       | 5    | SCAA05012 | Hexagon socket head cap screw (M5x12) |      |
|       | 6    | HMF10210  | Encoder drive gear A                  |      |
|       | 7    | SCAA04010 | Hexagon socket head cap screw (M4x10) |      |
|       | 8    | WPAA03000 | Plain washer (M3)                     |      |
|       | 9    | SCAA03008 | Hexagon socket head cap screw (M3x8)  |      |
|       | 10   | MPB00620  | Bearing (LF1680ZZ)                    |      |
|       | 11   | HMF10221  | Encoder drive gear B                  |      |
|       | 12   | HMF10230  | Encoder collar                        |      |
|       | 13   | HMF10203  | Encoder bracket B                     |      |
|       | 14   | WPAA04000 | Plain washer (M4)                     |      |
|       | 15   | WSAA04000 | Spring lock washer (M4)               |      |
|       | 16   | SCAA04028 | Hexagon socket head cap screw (M4x28) |      |
|       | 17   | HCG10080  | Encoder cover                         |      |
|       | 18   | SPCD03006 | Pan head screw (cross recessed, M3x6) |      |
|       | 19   | HMF10610  | Detecting slit disc                   |      |
|       | 20   | C0402041  | Slit disc boss                        |      |
|       | 21   | SSAA05008 | Hexagon socket set screw (M5x8)       |      |
|       | 22   | SPDD03008 | Pan head screw (cross recessed, M3x8) |      |
|       | 23   | HMF83050  | Timing detecting board ass'y          |      |
|       | 24   | HMF10251  | Board bracket                         |      |
|       | 25   | NHAD03000 | Hexagon nut (M3)                      |      |
|       | 26   | C0402070  | Board cover                           |      |
|       | 27   | HCG10470  | Edging                                |      |





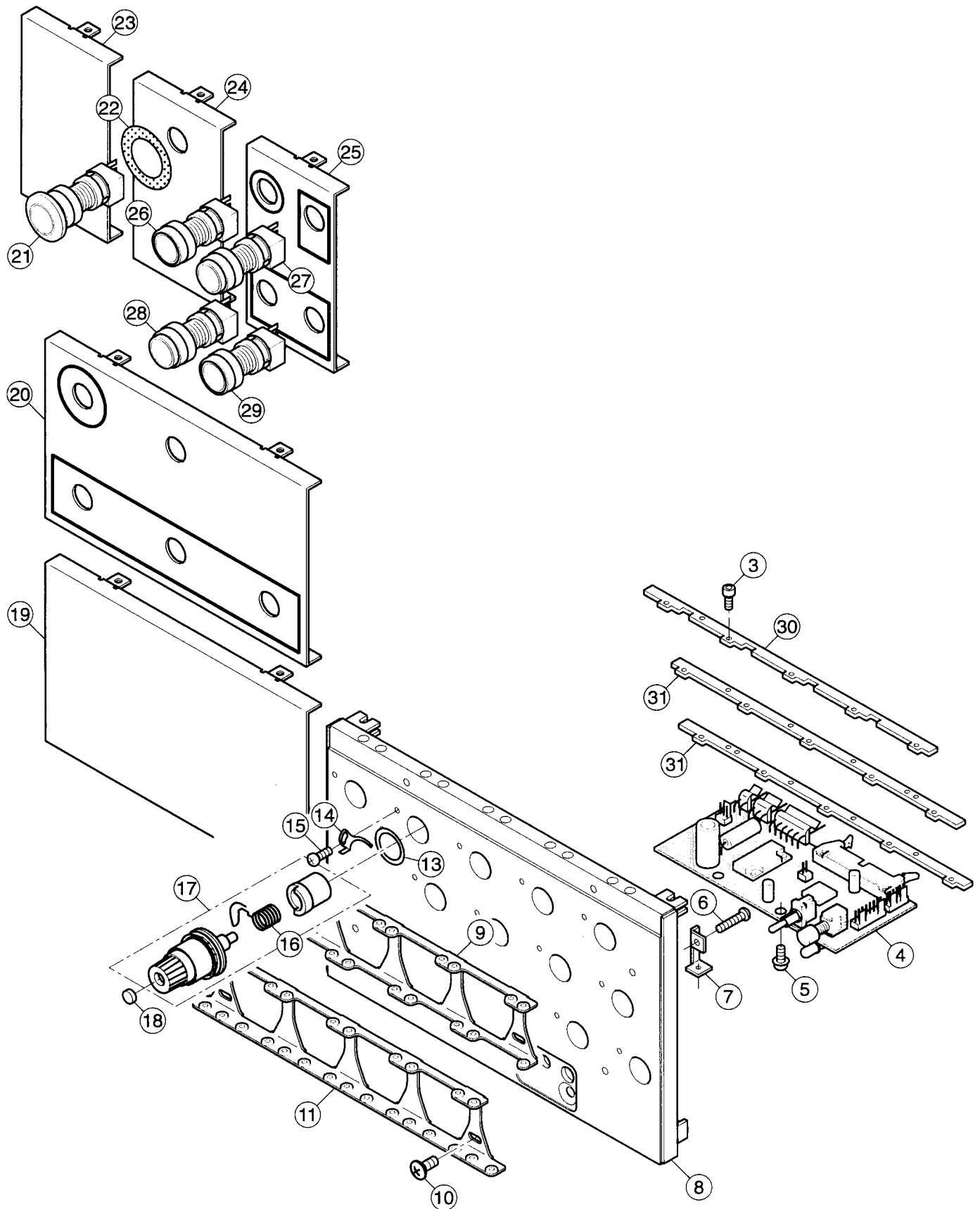
| Ass'y | El't | Parts No. | Parts Names                                    | Note |
|-------|------|-----------|------------------------------------------------|------|
|       | 1    | HMG12760  | Upper rail (for 15 needle)                     |      |
|       | 2    | HMG12790  | Take-up lever shaft (for 15 needle)            |      |
|       | 3    | HMG12781  | Needle bar boss check plate (for 15 needle)    |      |
|       | 4    | HMG12770  | Lower rail (for 15 needle)                     |      |
|       | 9    | HMG12800  | Lower front panel (for 15 needle)              |      |
|       | 10   | HSA12090  | Thread guide plate B ass'y (for 15 needle)     |      |
|       | 11   | HMG12880  | Thread guide plate A ass'y (for 15 needle)     |      |
|       | 12   | HCG12150  | Upper front panel (for 15 needle)              |      |
|       | 13   | HMG13100  | Moving head (for 15 needle)                    |      |
|       | 14   | HSA12040  | Take-up lever ass'y                            |      |
|       | 15   | HMF12152  | Collar                                         |      |
|       | 16   | HMG12592  | Urethane sheet                                 |      |
|       | 17   | HMG12582  | Pressure foot felt (3.0mm)                     |      |
|       | 18   | M0412500  | Pressure foot felt (1.0mm)                     |      |
|       | 18   | M0412510  | Pressure foot felt (1.5mm)                     |      |
|       | 18   | M0412610  | Pressure foot felt (2.0mm)                     |      |
|       | 19   | HMF12290  | Adjusting sheet A                              |      |
|       | 20   | HMG12870  | Pressure foot sheet (for 15 needle)            |      |
|       | 21   | HMG12890  | Pressure foot guide (for 15 needle)            |      |
|       | 22   | M0412164  | Needle bar                                     |      |
|       | 23   | HMF12090  | Needle bar spring (upper)                      |      |
|       | 24   | MPR00080  | E-ring (E-5)                                   |      |
|       | 25   | M0412812  | Needle bar boss                                |      |
|       | 26   | M0412200  | Screw for needle bar boss                      |      |
|       | 27   | HMF12112  | Bushing                                        |      |
|       | 28   | HCM12011  | Needle bar spring (lower)                      |      |
|       | 29   | HMG12750  | Pressure foot                                  |      |
|       | 30   | HMG12261  | Needle holder cushion                          |      |
|       | 31   | WPBD06000 | Plain washer (M6)                              |      |
|       | 32   | HSA12010  | Needle holder C                                |      |
|       | 33   | HSA12020  | Screw for needle holder                        |      |
|       | 34   | MPZ00150  | Needle (#11)                                   |      |
|       | 35   | SCAA04015 | Hexagon socket head cap screw (M4x15)          |      |
|       | 36   | SBAB04006 | Binding head screw (M4x6)                      |      |
|       | 37   | SGAB04008 | Flat head screw (cross recessed head, M4x8)    |      |
|       | 39   | STAB04008 | Truss head screw (cross recessed, M4x8)        |      |
|       | 40   | SSAA04004 | Hexagon socket set screw (M4x4)                |      |
|       | 41   | SSAA03006 | Hexagon socket set screw (M3x6)                |      |
|       | 42   | SBAD03008 | Binding head screw (M3x8)                      |      |
|       | 43   | -         | Number sticker                                 |      |
|       | 44   | M0412382  | Thread holding rubber                          |      |
|       | 45   | HMF12310  | Fasten block                                   |      |
|       | 46   | WPBA04000 | Plain washer (M4)                              |      |
|       | 47   | SCCA04025 | Hexagon socket head cap screw (M4x25)          |      |
|       | 48   | HMG12430  | Guide tube                                     |      |
|       | 49   | HMG12940  | Lower thread guide plate ass'y (for 15 needle) |      |
|       | 50   | HMG12841  | Lower thread guide plate (for 15 needle)       |      |
|       | 51   | STAB04012 | Truss head screw (cross recessed, M4x12)       |      |
|       | 52   | HMG12850  | Spring (for 15 needle)                         |      |
|       | 53   | NHAB04000 | Hexagon nut (M4)                               |      |
|       | 54   | SPAB03005 | Pan head screw (cross recessed, M3x5)          |      |
|       | 55   | HMG12600  | Spring bracket                                 |      |



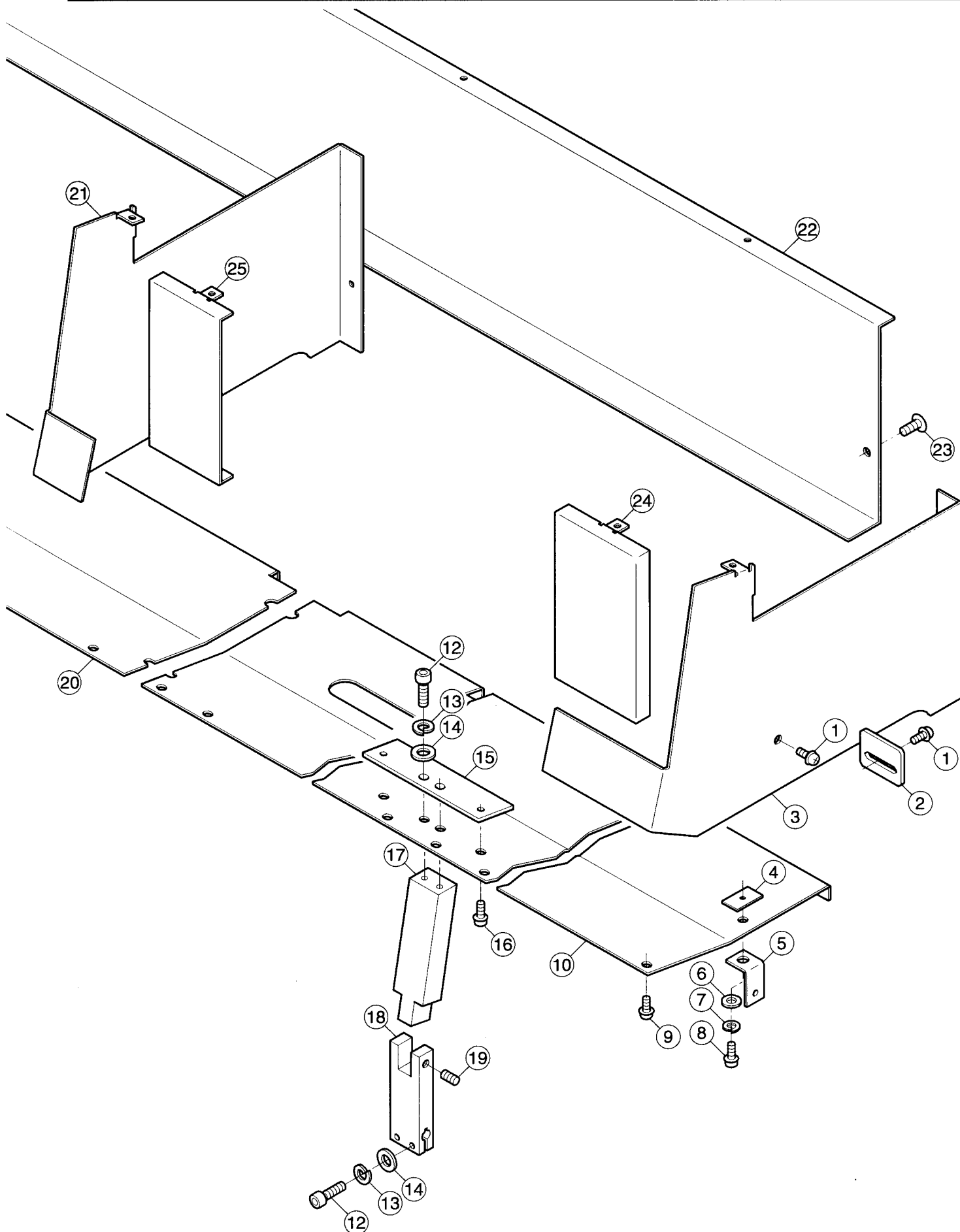
# THREAD CATCHER

CAB0821 15a-1

| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCM914120 | Thread catcher ass'y                             |      |
|       | 2    | HMF14170  | Guide plate B                                    |      |
|       | 3    | WPAB03000 | Plain washer (M3)                                |      |
|       | 4    | SPDB03008 | Pan head screw (cross recessed, M3x8)            |      |
|       | 5    | M0414180  | Cushion                                          |      |
|       | 6    | NHAA03000 | Hexagon nut (M3)                                 |      |
|       | 7    | WSAA03000 | Spring lock washer (M3)                          |      |
|       | 8    | C0414055  | Hook                                             |      |
|       | 9    | HCM14012  | Bracket                                          |      |
|       | 10   | WPBA06000 | Plain washer (M6)                                |      |
|       | 11   | SCBA05008 | Hexagon socket head cap screw with flange (M5x8) |      |
|       | 12   | WPAD04000 | Plain washer (M4)                                |      |
|       | 13   | M0412241  | Plastic ring                                     |      |
|       | 14   | M0414080  | Hinge screw B                                    |      |
|       | 15   | M0414150  | Washer for hinge screw                           |      |
|       | 16   | C0414080  | Spacer for hinge screw                           |      |
|       | 17   | M0414162  | Connecting plate                                 |      |
|       | 18   | C0414070  | Hinge screw                                      |      |
|       | 19   | M0414142  | Hinge screw A                                    |      |
|       | 20   | SCAA03006 | Hexagon socket head cap screw (M3x6)             |      |
|       | 21   | M0414100  | Actuating plate                                  |      |
|       | 22   | SSAA03006 | Hexagon socket set screw (M3x6)                  |      |
|       | 23   | NHCC04000 | Hexagon nut (M4)                                 |      |
|       | 24   | M0414111  | Solenoid fixing plate                            |      |
|       | 25   | M0414121  | Solenoid                                         |      |
|       | 26   | WPAA04000 | Plain washer (M4)                                |      |
|       | 27   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 28   | SCAA04006 | Hexagon socket head cap screw (M4x6)             |      |
|       | 29   | HCG14150  | Hook guard (for 15 needle)                       |      |
|       | 30   | SCBA03006 | Hexagon socket head cap screw with flange (M3x6) |      |
|       | 31   | HCM14030  | Holder guide                                     |      |
|       | 32   | HCG14130  | Magic tape (for 15 needle)                       |      |
|       | 33   | HCG14140  | Adhesive tape (for 15 needle)                    |      |
|       | 34   | HCG14120  | Holder (lower) (for 15 needle)                   |      |
|       | 35   | HCG14110  | Holder (upper) (for 15 needle)                   |      |
|       | 36   | --        | Thread holder ass'y (for 15 needle)              |      |



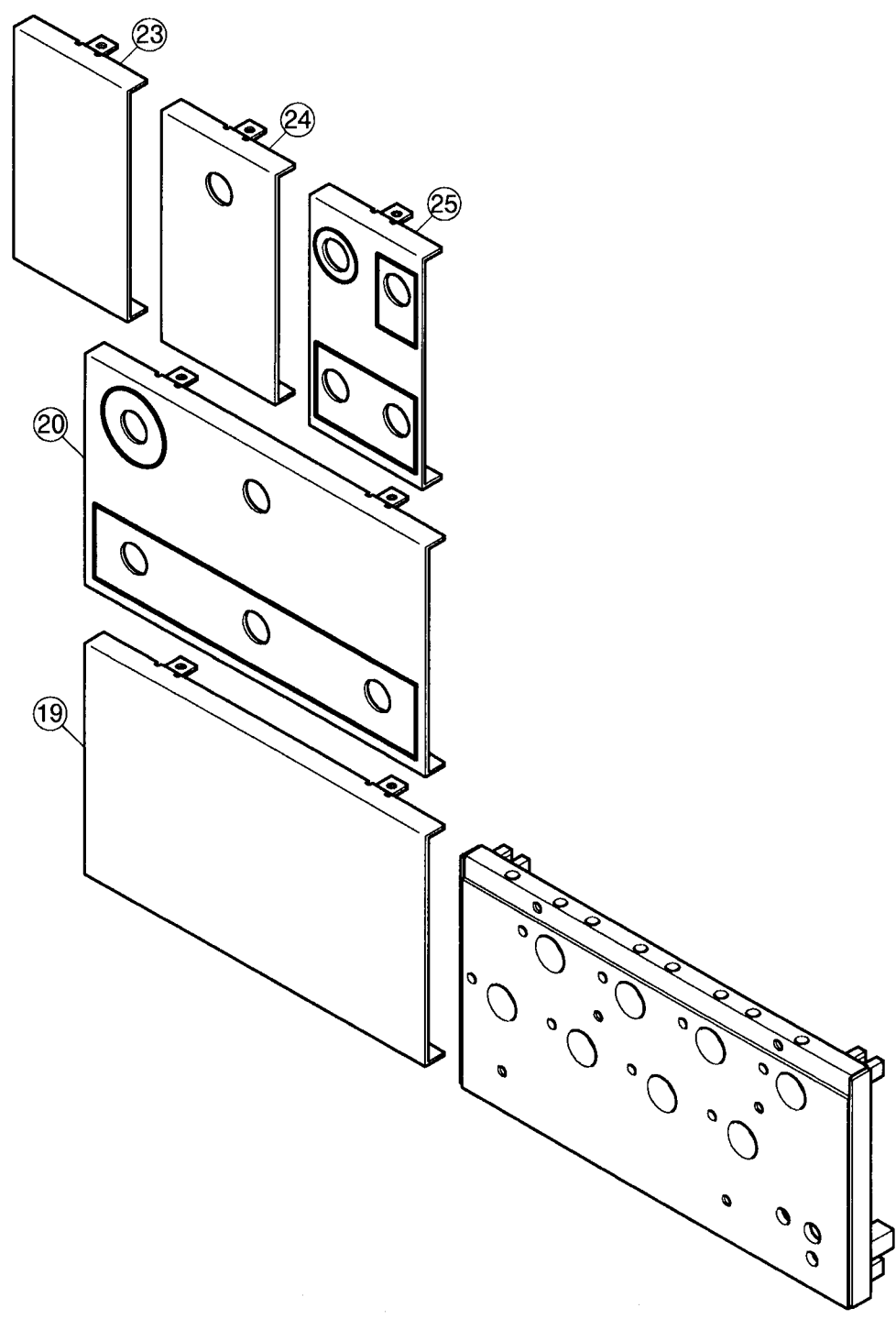
| Ass'y | El't | Parts No. | Parts Names                                       | Note |
|-------|------|-----------|---------------------------------------------------|------|
|       | 3    | SCAD03008 | Hexagon socket head cap screw (M3x8)              |      |
|       | 4    | HCG83151  | Thread detecting board ass'y                      |      |
|       | 5    | SPDD03006 | Pan head screw (cross recessed, M3x6)             |      |
|       | 6    | SMAC03008 | Pan head tapping screw (cross recessed head, 3x8) |      |
|       | 7    | M0416031  | Bracket for thread detecting board                |      |
|       | 8    | HMG17260  | Thread tension bracket (for 15 needle)            |      |
|       | 9    | HMG17270  | Thread guide upper ass'y                          |      |
|       | 10   | SBAB04008 | Binding head screw (M4x8)                         |      |
|       | 11   | HMG17290  | Thread guide lower ass'y                          |      |
|       | 13   | HMF17820  | Isolation plate                                   |      |
|       | 14   | HMF17870  | Adjusting plate                                   |      |
|       | 15   | SPAC03025 | Pan head screw (cross recessed, M3x25)            |      |
| 17*   | 16   | M0416186  | Thread adjusting spring                           |      |
|       | 17   | HMF17840  | Thread tension ass'y                              |      |
|       | 18   | HMF17860  | Thread tension lid                                |      |
|       | 19   | →17a      | Thread tension cover B (by model)                 |      |
|       | 20   | →17a      | Thread tension cover (by model)                   |      |
|       | 21   | EPS00840  | Emergency stop switch                             |      |
|       | 22   | HMF51080  | Emergency stop sticker                            |      |
|       | 23   | →17a      | Thread tension cover A (by model)                 |      |
|       | 24   | →17a      | Thread tension cover B (by model)                 |      |
|       | 25   | →17a      | Thread tension cover C (by model)                 |      |
|       | 26   | EPS00730  | Thread cut switch (blue)                          |      |
|       | 27   | EPS00720  | forward switch (yellow)                           |      |
|       | 28   | EPS00680  | Stop switch (black)                               |      |
|       | 29   | EPS00670  | Start switch (white)                              |      |
|       | 30   | HMG17430  | Thread tension fixer E (for 15 needle)            |      |
|       | 31   | HMG17420  | Thread tension fixer D (for 15 needle)            |      |



# THREAD TENSION UNIT 2

CGb3709 16b-1

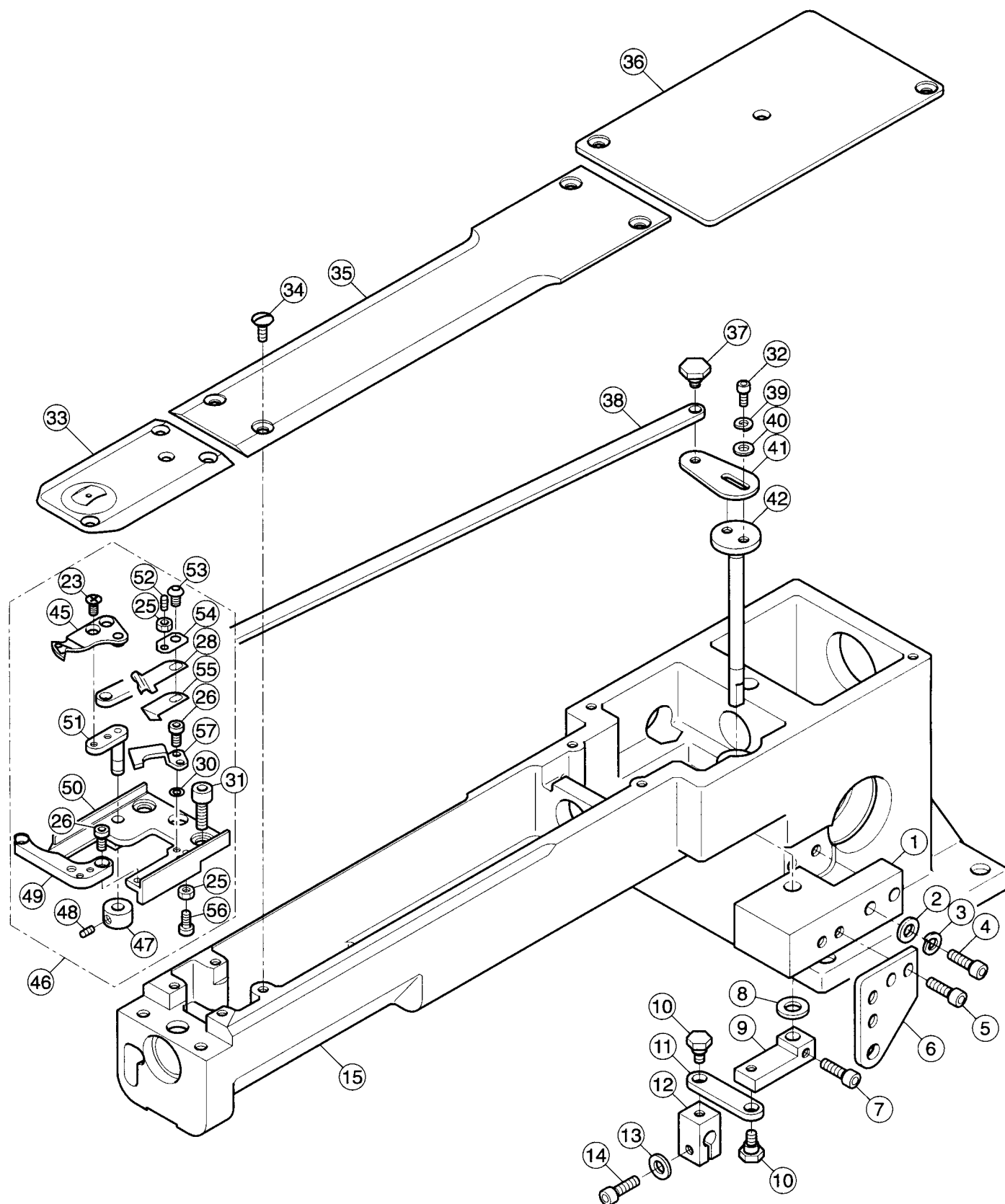
| Ass'y | El't | Parts No. | Parts Names                                                  | Note |
|-------|------|-----------|--------------------------------------------------------------|------|
|       | 1    | SPDB04008 | Pan head screw (cross recessed, M4x8)                        |      |
|       | 2    | HCG17331  | Stopper                                                      |      |
|       | 3    | →17b      | Thread tension side cover (right) (by model)                 |      |
|       | 4    | M0420901  | Plate nut                                                    |      |
|       | 5    | HMF10281  | Cover bracket B                                              |      |
|       | 6    | WPAD04000 | Plain washer (M4)                                            |      |
|       | 7    | WSAD04000 | Spring lock washer (M4)                                      |      |
|       | 8    | SCBD04010 | Hexagon socket head cap screw with flange (M4x10)            |      |
|       | 9    | SPDB04010 | Pan head screw (cross recessed, M4x10)                       |      |
|       | 10   | →17b      | Fixing plate B (right) for thread tension bracket (by model) |      |
|       | 12   | SCAA04015 | Hexagon socket head cap screw (M4x15)                        |      |
|       | 13   | WSAA04000 | Spring lock washer (M4)                                      |      |
|       | 14   | WPAA04000 | Plain washer (M4)                                            |      |
|       | 15   | HCG10120  | Fixing plate                                                 |      |
|       | 16   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8)             |      |
|       | 17   | HCM10170  | Joint E                                                      |      |
|       | 18   | HCG10130  | Joint                                                        |      |
|       | 19   | SSAA04008 | Hexagon socket set screw (M4x8)                              |      |
|       | 20   | →17b      | Fixing plate B (left) for thread tension bracket (by model)  |      |
|       | 21   | →17b      | Thread tension side cover (left) (by model)                  |      |
|       | 22   | →17b      | Rear cover (by model)                                        |      |
|       | 23   | STAB04006 | Truss head screw (cross recessed, M4x6)                      |      |
|       | 24   | →17b      | Thread tension cover (right) (by model)                      |      |
|       | 25   | →17b      | Thread tension cover (left) (by model)                       |      |



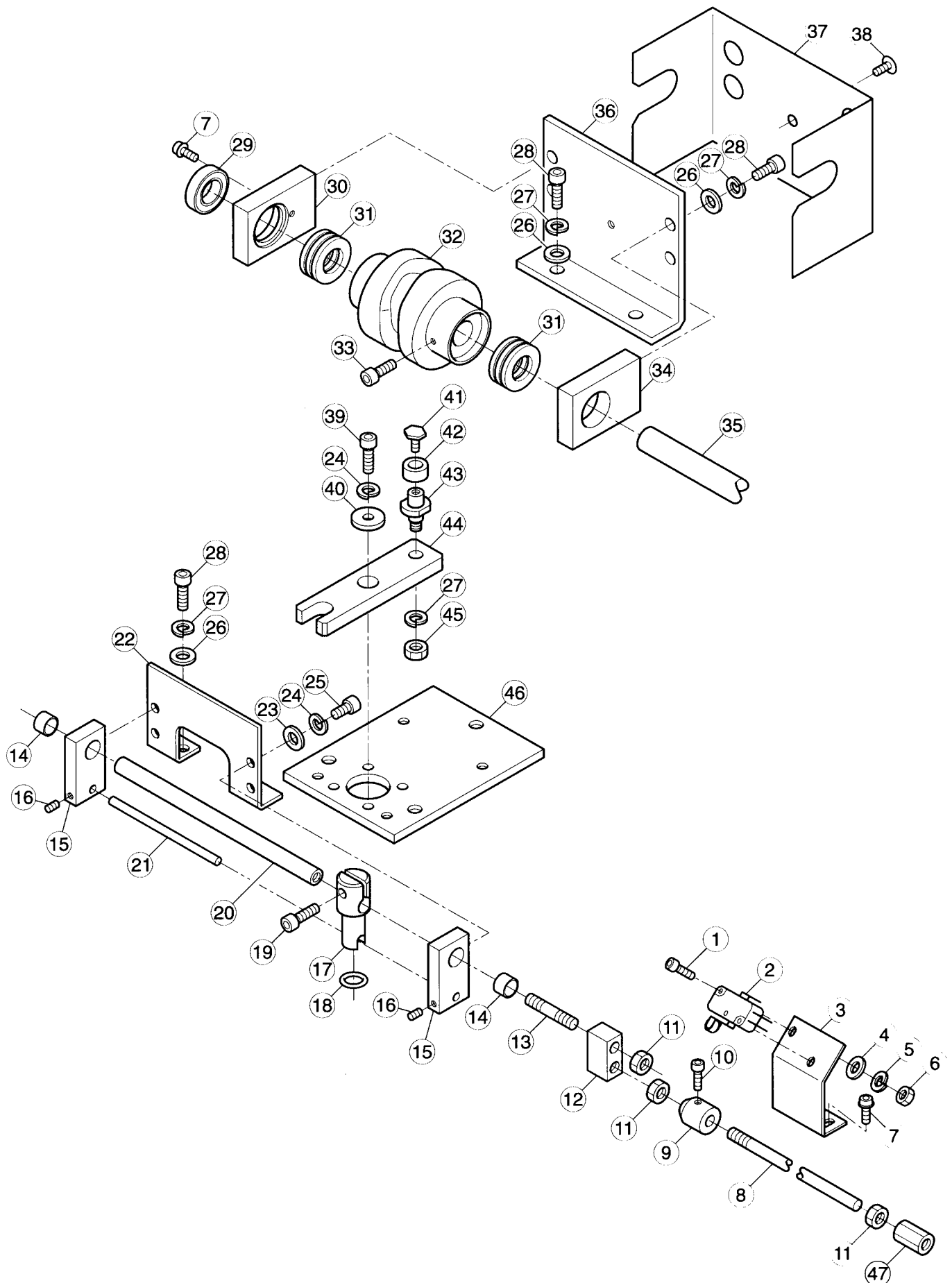


| 指図 / EIt<br>PARTS NAMES |             | 1 9<br>Thread tension<br>cover B | 2 0<br>Thread tension<br>cover |  |  |
|-------------------------|-------------|----------------------------------|--------------------------------|--|--|
| 機種<br>MODEL             | 1 5 0 6 B   | -                                | -                              |  |  |
|                         | X 1 5 0 4 B | HCG17670                         | HCG17660                       |  |  |
|                         | 1 5 0 4 B   | -                                | -                              |  |  |
|                         | 1 5 0 2 B   | -                                | HCG17660                       |  |  |
|                         |             |                                  |                                |  |  |

| 指図 / EIt<br>PARTS NAMES |             | 2 3<br>Thread tension<br>cover A | 2 4<br>Thread tension<br>cover B | 2 5<br>Thread tension<br>cover C |  |
|-------------------------|-------------|----------------------------------|----------------------------------|----------------------------------|--|
| 機種<br>MODEL             | 1 5 0 6 B   | CGB16270                         | CGB16260                         | CGB16250                         |  |
|                         | X 1 5 0 4 B | -                                | -                                | -                                |  |
|                         | 1 5 0 4 B   | CGB16270                         | CGB16260                         | CGB16250                         |  |
|                         | 1 5 0 2 B   | -                                | -                                | -                                |  |
|                         |             |                                  |                                  |                                  |  |



| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | HCM04092  | Link base                               |      |
|       | 2    | WPAA05000 | Plain washer (M5)                       |      |
|       | 3    | WSAA05000 | Spring lock washer (M5)                 |      |
|       | 4    | SCAA05020 | Hexagon socket head cap screw (M5x20)   |      |
|       | 5    | SCAA04010 | Hexagon socket head cap screw (M4x10)   |      |
|       | 6    | HMF04050  | Support for moving shaft                |      |
|       | 7    | SCAA04008 | Hexagon socket head cap screw (M4x8)    |      |
|       | 8    | WPAA06000 | Plain washer (M6)                       |      |
|       | 9    | M0404240  | Drive arm for knife                     |      |
|       | 10   | M0404263  | Hinge screw for link                    |      |
|       | 11   | M0404250  | Link                                    |      |
|       | 12   | M0404271  | Fasten block for thread cut shaft       |      |
|       | 13   | WPAA04000 | Plain washer (M4)                       |      |
|       | 14   | SCCA04015 | Hexagon socket head cap screw (M4x15)   |      |
|       | 15   | HCG04014  | Bed                                     |      |
| 46 *  | 23   | HMF04260  | Flat head screw                         |      |
| 46 *  | 25   | NHCA03000 | Hexagon nut (M3)                        |      |
| 46 *  | 26   | SCAA03004 | Hexagon socket head cap screw (M3x4)    |      |
| 46 *  | 28   | HCM04580  | Bobbin thread holder                    |      |
| 46 *  | 30   | MPZ02230  | Washer                                  |      |
|       | 31   | SCAA05010 | Hexagon socket head cap screw (M5x10)   |      |
|       | 32   | SCAA03006 | Hexagon socket head cap screw (M3x6)    |      |
|       | 33   | HCM04750  | Needle plate                            |      |
|       | 34   | MPZ00040  | Screw for needle plate                  |      |
|       | 35   | HCM04050  | Cover B (for Y480)                      |      |
|       | 36   | HCM04041  | Cover A                                 |      |
|       | 37   | HCM04252  | Hinge screw for link                    |      |
|       | 38   | HCM04223  | Rod (for Y480)                          |      |
|       | 39   | WSAA03000 | Spring lock washer (M3)                 |      |
|       | 40   | WPAA03000 | Plain washer (M3)                       |      |
|       | 41   | HCM04550  | Link C                                  |      |
|       | 42   | C0404301  | Drive shaft for link                    |      |
| 46 *  | 45   | HCM04293  | Knife                                   |      |
|       | 46   | HCA04030  | Thread cutting device ass'y             |      |
| 46 *  | 47   | HCA04060  | Knife drive shaft retainer              |      |
| 46 *  | 48   | SSAA04004 | Hexagon socket set screw (M4x4)         |      |
| 46 *  | 49   | HCA04070  | Rotary hook retainer base               |      |
| 46 *  | 50   | HCA04040  | Thread cutting device base              |      |
| 46 *  | 51   | HCA04050  | Knife drive shaft                       |      |
| 46 *  | 52   | SSAA03003 | Hexagon socket set screw (M3x3)         |      |
| 46 *  | 53   | SAAA03005 | Hexagon socket button head screw (M3x5) |      |
| 46 *  | 54   | HCA04090  | Holder retainer                         |      |
| 46 *  | 55   | HCA04082  | Holder support                          |      |
| 46 *  | 56   | SCAA03012 | Hexagon socket head cap screw (M3x12)   |      |
| 46 *  | 57   | HCA04100  | Fixed knife                             |      |

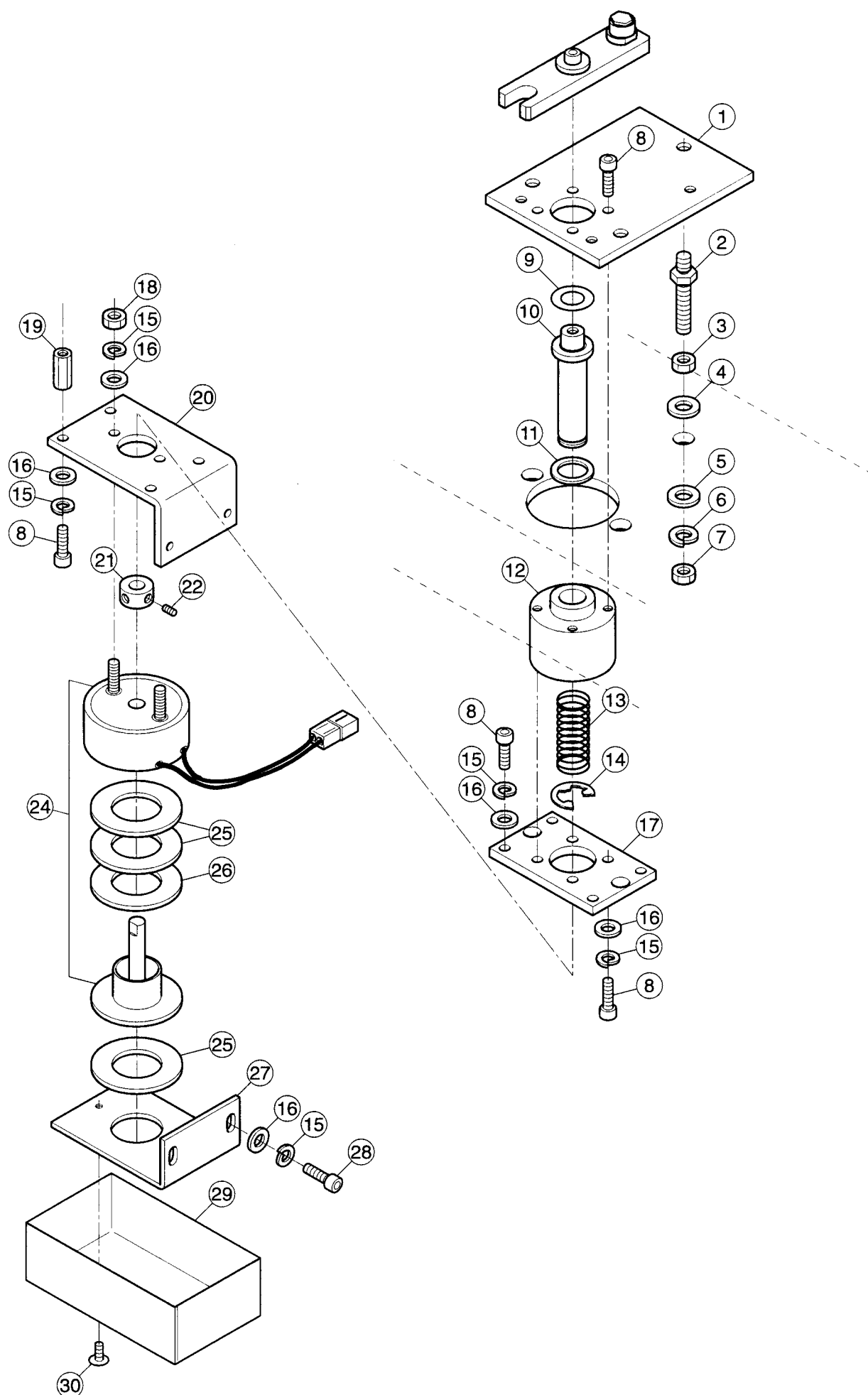


# THREAD CUTTING DRIVER 1

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| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | SCAA03015 | Hexagon socket head cap screw (M3x15)            |      |
|       | 2    | EPS00010  | Micro switch                                     |      |
|       | 3    | HCG06370  | Micro switch bracket                             |      |
|       | 4    | WPAA03000 | Plain washer (M3)                                |      |
|       | 5    | WSAA03000 | Spring lock washer (M3)                          |      |
|       | 6    | NHAA03000 | Hexagon nut (M3)                                 |      |
|       | 7    | SCBA04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 8    | →9a       | Moving shaft (by model)                          |      |
|       | 9    | M0406101  | LS dog                                           |      |
|       | 10   | SCAA04008 | Hexagon socket head cap screw (M4x8)             |      |
|       | 11   | M0404280  | Nut                                              |      |
|       | 12   | HCG06320  | Connecting block                                 |      |
|       | 13   | HCG06300  | Bolt                                             |      |
|       | 14   | MPB00740  | Bushing                                          |      |
|       | 15   | HCG06280  | Shaft support                                    |      |
|       | 16   | SSAA04008 | Hexagon socket set screw (M4x8)                  |      |
|       | 17   | M0406142  | Lever drive pin                                  |      |
|       | 18   | MPR00490  | O-Ring (P-11)                                    |      |
|       | 19   | SCAA06020 | Hexagon socket head cap screw (M6x20)            |      |
|       | 20   | M0406161  | Slide shaft                                      |      |
|       | 21   | HCG06310  | Guide pin                                        |      |
|       | 22   | HCG06291  | Shaft support bracket                            |      |
|       | 23   | WPAA05000 | Plain washer (M5)                                |      |
|       | 24   | WSAA05000 | Spring lock washer (M5)                          |      |
|       | 25   | SCAA05012 | Hexagon socket head cap screw (M5x12)            |      |
|       | 26   | WPAA06000 | Plain washer (M6)                                |      |
|       | 27   | WSAA06000 | Spring lock washer (M6)                          |      |
|       | 28   | SCAA06015 | Hexagon socket head cap screw (M6x15)            |      |
|       | 29   | MPB00730  | Bearing (6902ZZ)                                 |      |
|       | 30   | HCG06220  | Cam support left                                 |      |
|       | 31   | MPB00160  | Thrust bearing (51102)                           |      |
|       | 32   | HCA06090  | Cam for thread cutting driver                    |      |
|       | 33   | SCAA06012 | Hexagon socket head cap screw (M6x12)            |      |
|       | 34   | HCG06210  | Cam support right                                |      |
|       | 35   | →2a       | Lower shaft (by model)                           |      |
|       | 36   | HCG06240  | Cam support bracket                              |      |
|       | 37   | HCG06252  | Cam cover                                        |      |
|       | 38   | STAB05006 | Truss head screw (cross recessed, M5x6)          |      |
|       | 39   | SCAA05015 | Hexagon socket head cap screw (M5x15)            |      |
|       | 40   | M0406410  | Washer                                           |      |
|       | 41   | M0406211  | Roller screw                                     |      |
|       | 42   | M0406220  | Thread cutting roller                            |      |
|       | 43   | M0406231  | Roller shaft                                     |      |
|       | 44   | HCG06270  | Cam lever                                        |      |
|       | 45   | NHAA06000 | Hexagon nut (M6)                                 |      |
|       | 46   | HCG06200  | Cam support base                                 |      |
|       | 47   | M0404292  | Joint                                            |      |



# THREAD CUTTING DRIVER 2

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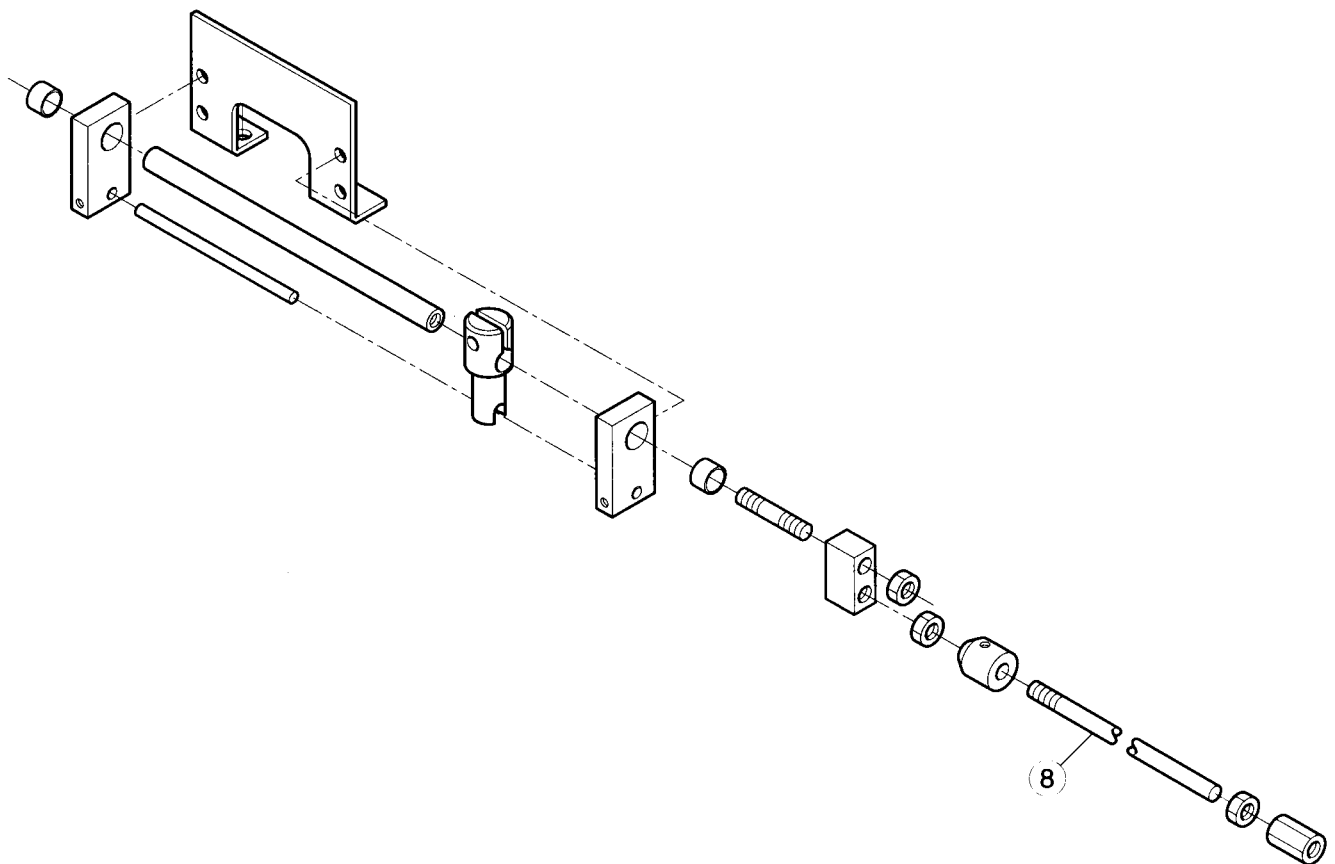
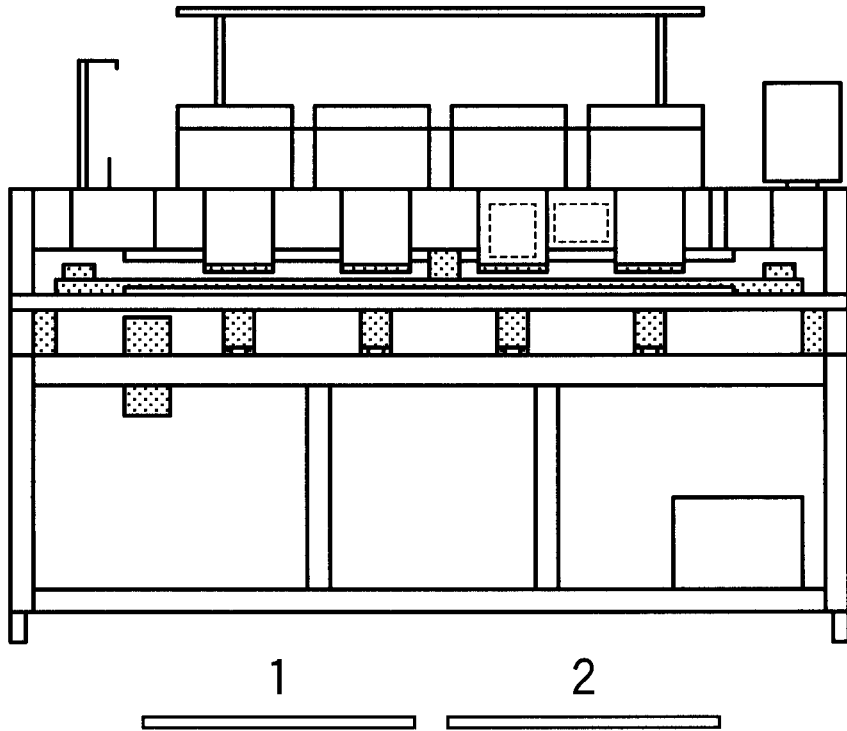
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| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | HCG06200  | Cam support base                        |      |
|       | 2    | HCG04200  | Stud                                    |      |
|       | 3    | NHCA08000 | Hexagon nut (M8)                        |      |
|       | 4    | HCG04211  | Washer                                  |      |
|       | 5    | WPAD08000 | Plain washer (M8)                       |      |
|       | 6    | WSAD08000 | Spring lock washer (M8)                 |      |
|       | 7    | NHAD08000 | Hexagon nut (M8)                        |      |
|       | 8    | SCAA05015 | Hexagon socket head cap screw (M5x15)   |      |
|       | 9    | HCG06380  | Washer                                  |      |
|       | 10   | M0406252  | Lever shaft                             |      |
|       | 11   | M0406260  | Urethane washer                         |      |
|       | 12   | HCG06330  | Lever shaft support                     |      |
|       | 13   | M0406050  | Lever spring                            |      |
|       | 14   | MPR00430  | E-ring (E-12)                           |      |
|       | 15   | WSAA05000 | Spring lock washer (M5)                 |      |
|       | 16   | WPAA05000 | Plain washer (M5)                       |      |
|       | 17   | HCG06341  | Solenoid base                           |      |
|       | 18   | NHAA05000 | Hexagon nut (M5)                        |      |
|       | 19   | HMF06051  | Solenoid stud                           |      |
|       | 20   | HCG06350  | Fixing plate                            |      |
|       | 21   | HMF04190  | Collar                                  |      |
|       | 22   | SSAA05006 | Hexagon socket set screw (M5x6)         |      |
|       | 24   | HMX78020  | Thread cutting solenoid                 |      |
|       | 25   | M0406010  | Solenoid felt                           |      |
|       | 26   | HCG06400  | Solenoid felt B                         |      |
|       | 27   | HCG06020  | Felt base                               |      |
|       | 28   | SCAA05010 | Hexagon socket head cap screw (M5x10)   |      |
|       | 29   | HCG06360  | Solenoid cover                          |      |
|       | 30   | STAB04006 | Truss head screw (cross recessed, M4x6) |      |

## THREAD CUTTING DRIVER

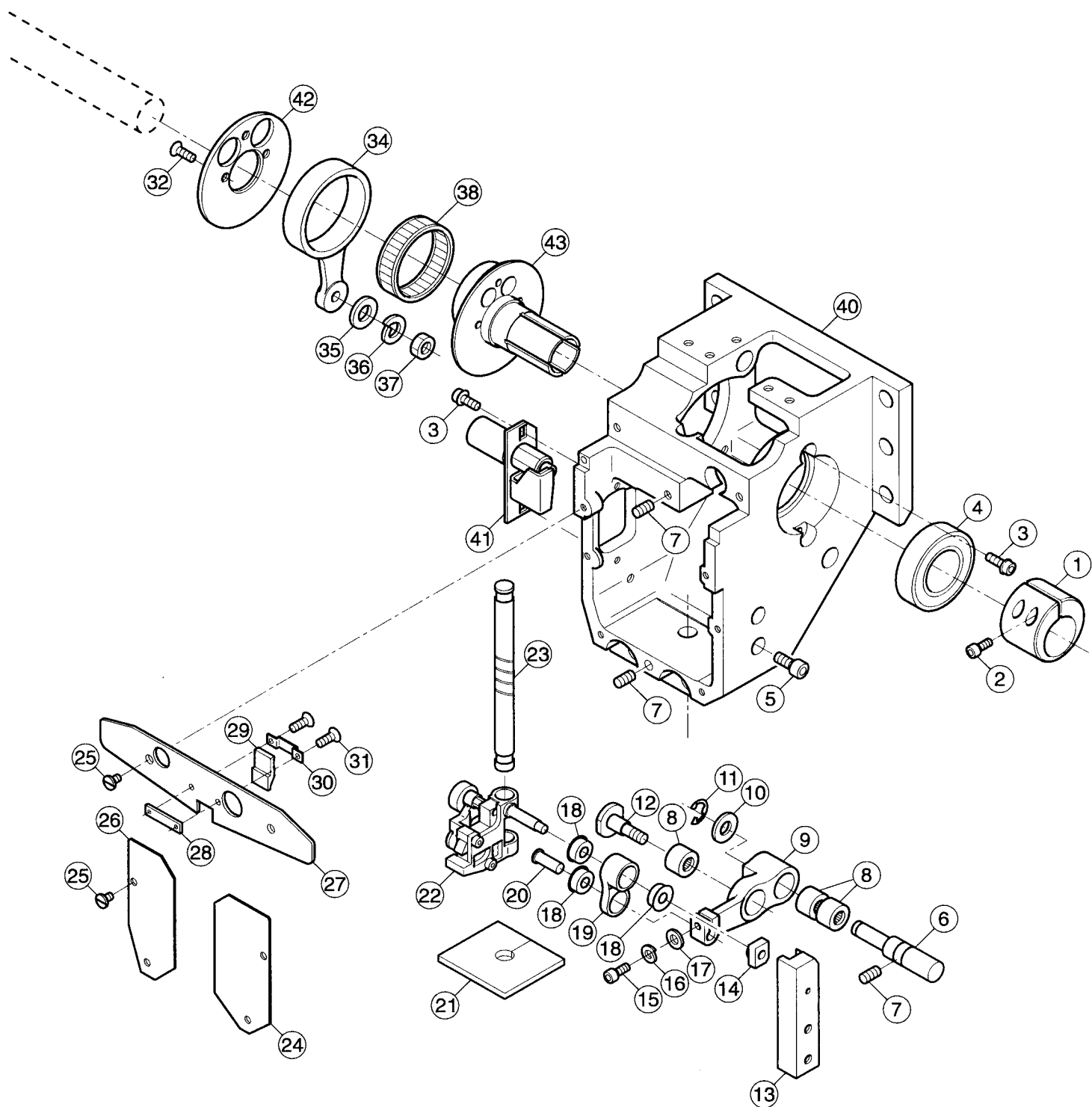
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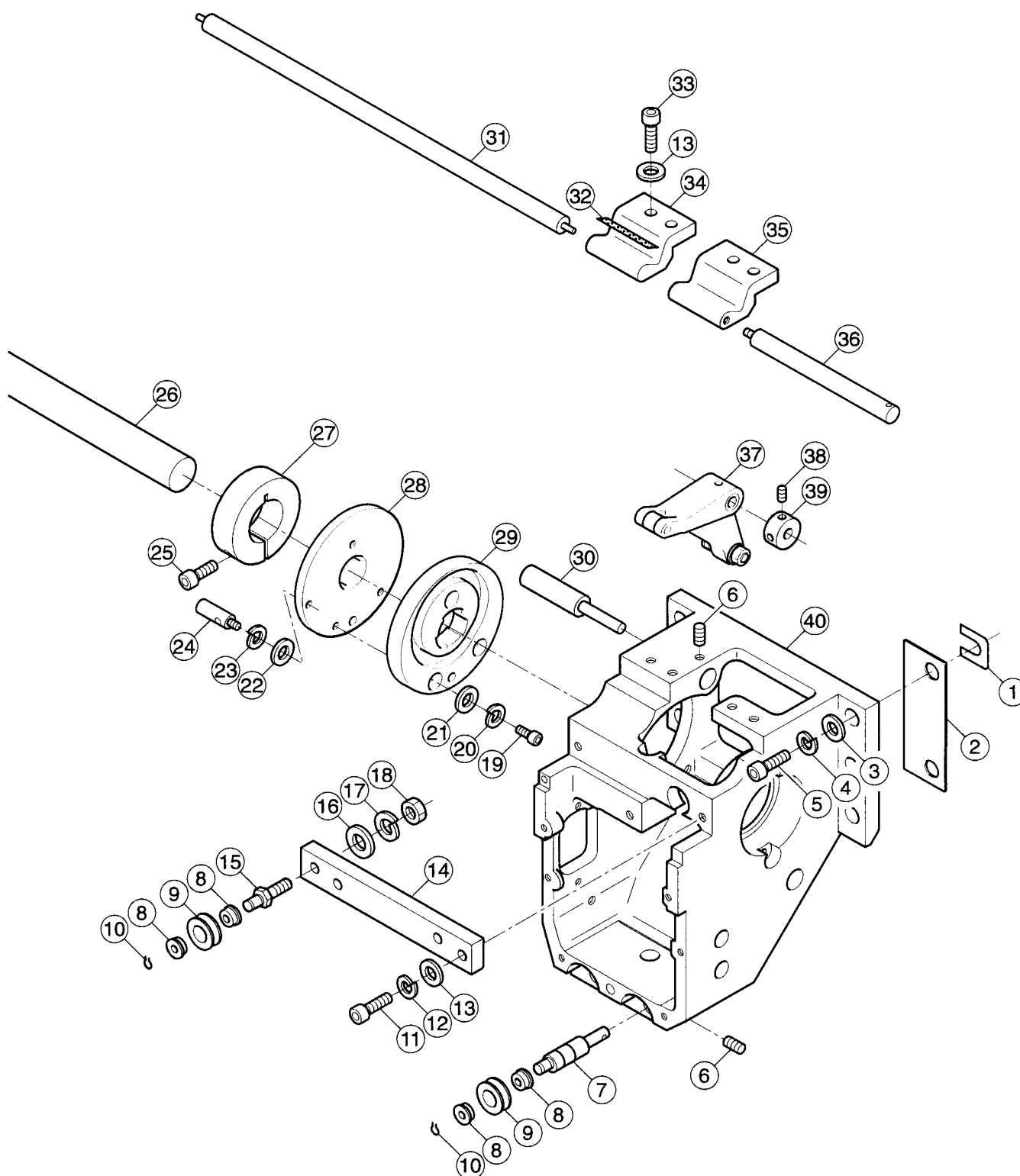




| 指図 / El't<br>PARTS NAMES |             | 8<br>Moving shaft 1 | 8<br>Moving shaft 2 |  |
|--------------------------|-------------|---------------------|---------------------|--|
| 機種<br>MODEL              | 1 5 0 6 B   | HCM10370            | HCG06070            |  |
|                          | X 1 5 0 4 B | HMF06200            | -                   |  |
|                          | 1 5 0 4 B   | HMF06131            | -                   |  |
|                          | 1 5 0 2 B   | HCG06061            | -                   |  |
|                          |             |                     |                     |  |



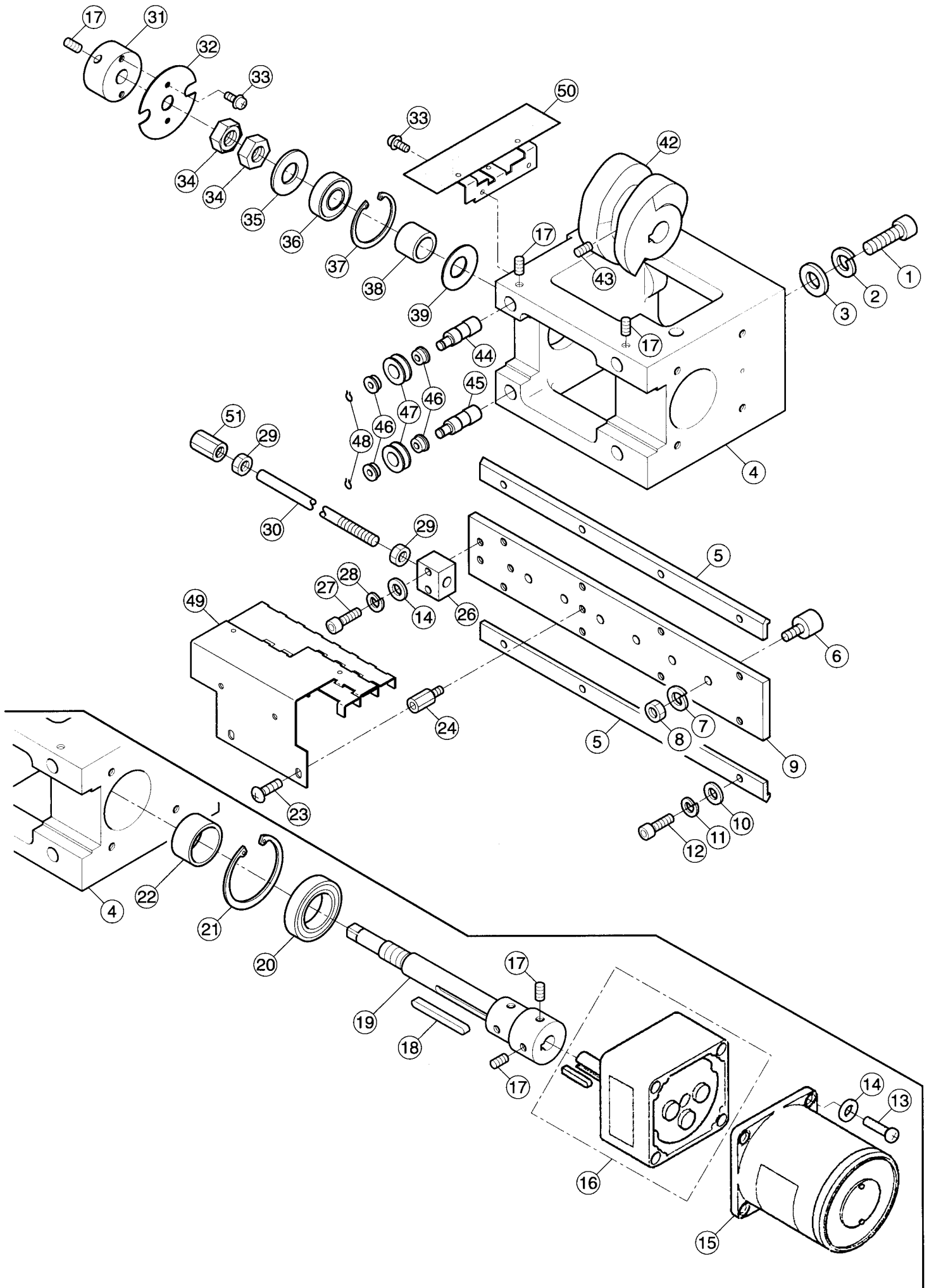
| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCG08042  | Fasten collar                                    |      |
|       | 2    | SCAA04015 | Hexagon socket head cap screw (M4x15)            |      |
|       | 3    | SCBA04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 4    | MPB00670  | Bearing (6005LLB)                                |      |
|       | 5    | SCAA05012 | Hexagon socket head cap screw (M5x12)            |      |
|       | 6    | HCG08082  | Pin (for needle bar driving lever)               |      |
|       | 7    | SSAA05008 | Hexagon socket set screw (M5x8)                  |      |
|       | 8    | MPB00680  | Needle bearing (RNAO-8x15x10T2)                  |      |
|       | 9    | HCG08062  | Needle bar driving lever                         |      |
|       | 10   | WPAA08000 | Plain washer (M8)                                |      |
|       | 11   | MPR00060  | E-ring (E-7)                                     |      |
|       | 12   | HCG08074  | Pin (for coupling rod)                           |      |
|       | 13   | HCG08140  | Guide rail                                       |      |
|       | 14   | M0408230  | Slide block                                      |      |
|       | 15   | SCAA04012 | Hexagon socket head cap screw (M4x12)            |      |
|       | 16   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 17   | WPBA04000 | Plain washer (M4)                                |      |
|       | 18   | MPB00660  | Miniature bearing (LFW686ZZA)                    |      |
|       | 19   | HCG08092  | Link                                             |      |
|       | 20   | HCG08102  | Pin (for link)                                   |      |
|       | 21   | HMG08150  | Felt (for fixed head)                            |      |
|       | 22   | HCA08023  | Needle bar driver                                |      |
|       | 23   | HMF08040  | Slide shaft                                      |      |
|       | 24   | HMG08110  | Lower face plate (right)                         |      |
|       | 25   | M0408440  | Face plate screw                                 |      |
|       | 26   | HMG08100  | Lower face plate (left)                          |      |
|       | 27   | HMG08120  | Upper face plate C                               |      |
|       | 28   | M0408430  | Plate nut                                        |      |
|       | 29   | HMG08130  | Cushion B                                        |      |
|       | 30   | M0408423  | Holding plate                                    |      |
|       | 31   | SGAB2E005 | Flat head screw (cross recessed head, M2.5x5)    |      |
|       | 32   | SCDA04008 | Hexagon socket flat head screw (M4x8)            |      |
|       | 34   | HCG08051  | Connecting rod                                   |      |
|       | 35   | WPAA06000 | Plain washer (M6)                                |      |
|       | 36   | WSAA06000 | Spring lock washer (M6)                          |      |
|       | 37   | NHAA06000 | Hexagon nut (M6)                                 |      |
|       | 38   | MPB00690  | Needle bearing (K40x45x13)                       |      |
|       | 40   | HCG08390  | Fixed head B                                     |      |
|       | 41   | HMF08290  | Jump solenoid ass'y                              |      |
|       | 42   | HCG08320  | Plate B                                          |      |
|       | 43   | HCG08340  | Needle bar cam D                                 |      |



| Ass'y | El't | Parts No. | Parts Names                                     | Note |
|-------|------|-----------|-------------------------------------------------|------|
|       | 1    | HCG08230  | Spacer (1.0mm)                                  |      |
|       | 1    | HCG08240  | Spacer (0.8mm)                                  |      |
|       | 1    | HCG08250  | Spacer (0.5mm)                                  |      |
|       | 1    | HCG08260  | Spacer (0.3mm)                                  |      |
|       | 1    | HCG08280  | Spacer (0.2mm)                                  |      |
|       | 1    | HCG08270  | Spacer (0.1mm)                                  |      |
|       | 2    | HMF08074  | Head spacer                                     |      |
|       | 3    | WPAA08000 | Plain washer (M8)                               |      |
|       | 4    | WSAA08000 | Spring lock washer (M8)                         |      |
|       | 5    | SCAA08025 | Hexagon socket head cap screw (M8x25)           |      |
|       | 6    | SSAA05008 | Hexagon socket set screw (M5x8)                 |      |
|       | 7    | HMF08172  | Lower roller pin                                |      |
|       | 8    | MPB00240  | Bearing (LF1060ZZ)                              |      |
|       | 9    | M0408484  | Bearing case                                    |      |
|       | 10   | MPR00280  | DIN-ring (G-6)                                  |      |
|       | 11   | SCAA05020 | Hexagon socket head cap screw (M5x20)           |      |
|       | 12   | WSAA05000 | Spring lock washer (M5)                         |      |
|       | 13   | WPAA05000 | Plain washer (M5)                               |      |
|       | 14   | HCG08171  | Roller pin guide                                |      |
|       | 15   | HMF08062  | Upper roller pin                                |      |
|       | 16   | WPAA06000 | Plain washer (M6)                               |      |
|       | 17   | WSAA06000 | Spring lock washer (M6)                         |      |
|       | 18   | NHAA06000 | Hexagon nut (M6)                                |      |
|       | 19   | SCAA04010 | Hexagon socket head cap screw (M4x10)           |      |
|       | 20   | WSAA04000 | Spring lock washer (M4)                         |      |
|       | 21   | WPBA04000 | Plain washer (M4)                               |      |
|       | 22   | WPAB04000 | Plain washer (M4)                               |      |
|       | 23   | WSAB04000 | Spring lock washer (M4)                         |      |
|       | 24   | C0408051  | Positioning pin                                 |      |
|       | 25   | SCAA06020 | Hexagon socket head cap screw (M6x20)           |      |
|       | 26   | →2a       | Upper shaft (by model)                          |      |
|       | 27   | C0408040  | Fasten collar                                   |      |
|       | 28   | C0408030  | Take-up lever cam fixing plate                  |      |
|       | 29   | HMF08270  | Take-up lever cam                               |      |
|       | 30   | HCG08150  | Cam lever shaft                                 |      |
|       | 31   | HCG08220  | Take-up lever guide bar (for 1506B, 1504B type) |      |
|       | 32   | HMF08210  | Take-up lever base tape                         |      |
|       | 33   | SCAA05015 | Hexagon socket head cap screw (M5x15)           |      |
|       | 34   | HMF08091  | Take-up lever guide base (left)                 |      |
|       | 35   | HMF08101  | Take-up lever guide base (right)                |      |
|       | 36   | HMG08060  | Take-up lever guide bar (for 15 needle)         |      |
|       | 37   | C0408065  | Cam lever ass'y                                 |      |
|       | 38   | SSAA04006 | Hexagon socket set screw (M4x6)                 |      |
|       | 39   | HCG08160  | Cam lever shaft collar                          |      |
|       | 40   | HCG08390  | Fixed head B                                    |      |

# NEEDLE BAR CHANGE UNIT

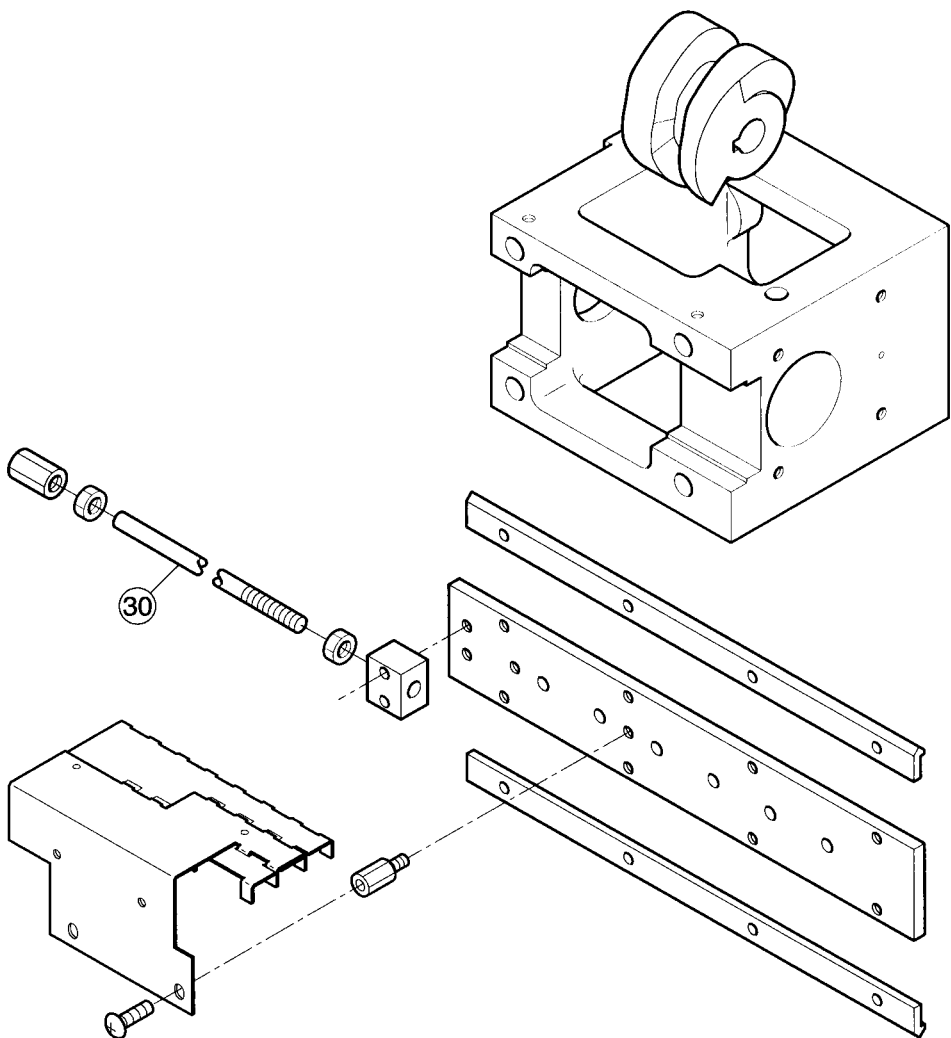
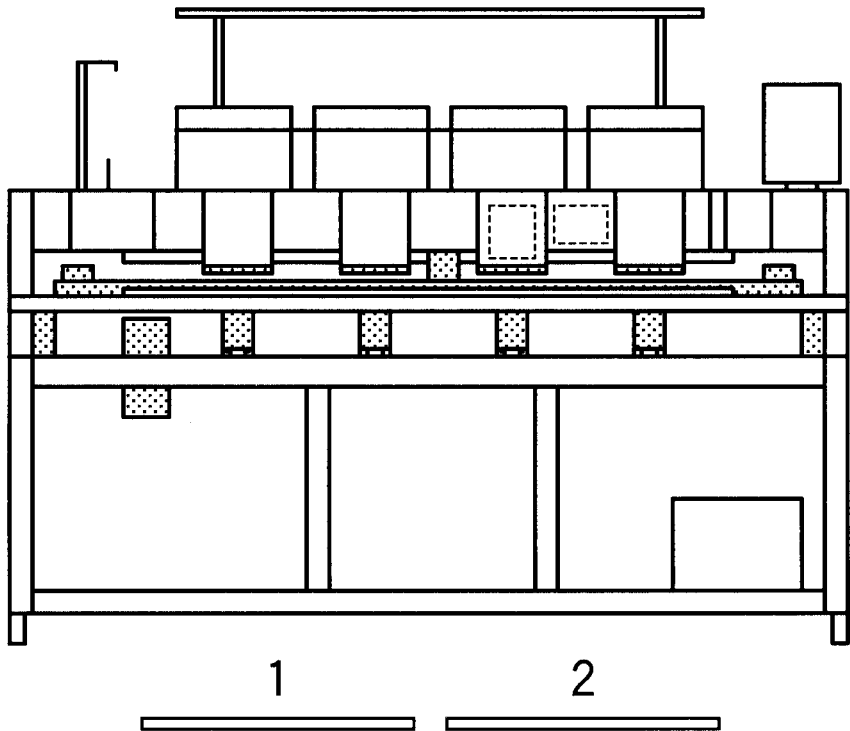
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# NEEDLE BAR CHANGE UNIT

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| Ass'y | El't | Parts No. | Parts Names                                         | Note |
|-------|------|-----------|-----------------------------------------------------|------|
|       | 1    | SCAA08025 | Hexagon socket head cap screw (M8x25)               |      |
|       | 2    | WSAA08000 | Spring lock washer (M8)                             |      |
|       | 3    | WPAA08000 | Plain washer (M8)                                   |      |
|       | 4    | HCG10112  | Base                                                |      |
|       | 5    | HMG10060  | Rail (for 15 needle)                                |      |
|       | 6    | MPB00230  | Cam follower (with nut, KR16XLL)                    |      |
|       | 7    | WSAA06000 | Spring lock washer (M6)                             |      |
|       | 8    | NHAA06000 | Hexagon nut (M6)                                    |      |
|       | 9    | HMG10050  | Slide bar (for 15 needle)                           |      |
|       | 10   | WPAD05000 | Plain washer (M5)                                   |      |
|       | 11   | WSAD05000 | Spring lock washer (M5)                             |      |
|       | 12   | SCAD05012 | Hexagon socket head cap screw (M5x12)               |      |
|       | 13   | SPAA05050 | Pan head screw (cross recessed, M5x50)              |      |
|       | 14   | WPAA05000 | Plain washer (M5)                                   |      |
|       | 15   | HCG75021  | Motor                                               |      |
|       | 16   | EPM00390  | Gear head                                           |      |
|       | 17   | SSAA05008 | Hexagon socket set screw (M5x8)                     |      |
|       | 18   | MPK00010  | Key (both round, 5x5x47)                            |      |
|       | 19   | HMF10020  | Drive shaft ass'y                                   |      |
|       | 20   | MPB00610  | Bearing (6905ZZ)                                    |      |
|       | 21   | MPR00440  | JO-ring (JO-42)                                     |      |
|       | 22   | HMF10060  | Collar                                              |      |
|       | 23   | STAB05006 | Truss head screw (cross recessed, M5x6)             |      |
|       | 24   | MPZ02020  | Spacer (BSB-515)                                    |      |
|       | 26   | HCG10231  | Shaft holder                                        |      |
|       | 27   | SCAA05025 | Hexagon socket head cap screw (M5x25)               |      |
|       | 28   | WSAA05000 | Spring lock washer (M5)                             |      |
|       | 29   | M0404280  | Nut                                                 |      |
|       | 30   | →12a      | Moving shaft (by model)                             |      |
|       | 31   | HMF10080  | Slit disc boss                                      |      |
|       | 32   | HMF10072  | Slit disc                                           |      |
|       | 33   | SPDD03006 | Pan head screw (cross recessed, M3x6)               |      |
|       | 34   | NHAB12000 | Hexagon nut (M12)                                   |      |
|       | 35   | WPAB14000 | Plain washer (M14)                                  |      |
|       | 36   | MPB00220  | Bearing (6002ZZ)                                    |      |
|       | 37   | MPR00070  | C-ring (C-32)                                       |      |
|       | 38   | M0410082  | Collar A                                            |      |
|       | 39   | MPS00050  | Conical spring                                      |      |
|       | 42   | M0410070  | grooved cam                                         |      |
|       | 43   | SSAA04008 | Hexagon socket set screw (M4x8)                     |      |
|       | 44   | HMF10152  | Upper pin                                           |      |
|       | 45   | HMF10172  | Lower pin                                           |      |
|       | 46   | MPB00240  | Bearing (LF1060ZZ)                                  |      |
|       | 47   | M0408484  | Bearing case                                        |      |
|       | 48   | MPR00280  | DIN-ring (G-6)                                      |      |
|       | 49   | HMG10170  | Needle bar position detecting plate (for 15 needle) |      |
|       | 50   | HCG83181  | Needle bar position detecting board ass'y           |      |
|       | 51   | M0404292  | Joint                                               |      |

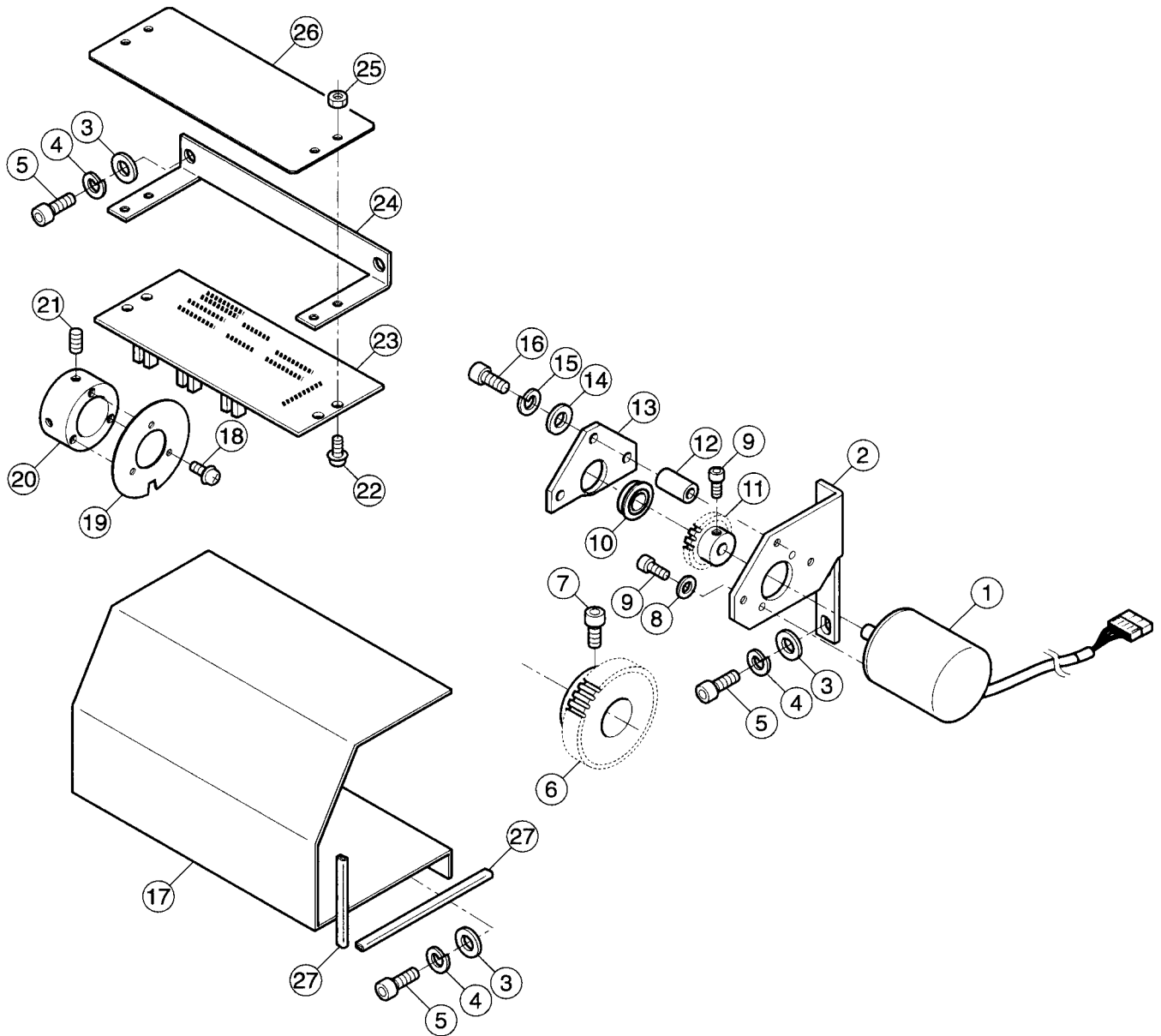




# NEEDLE BAR CHANGE UNIT

CGb3709 12a-1

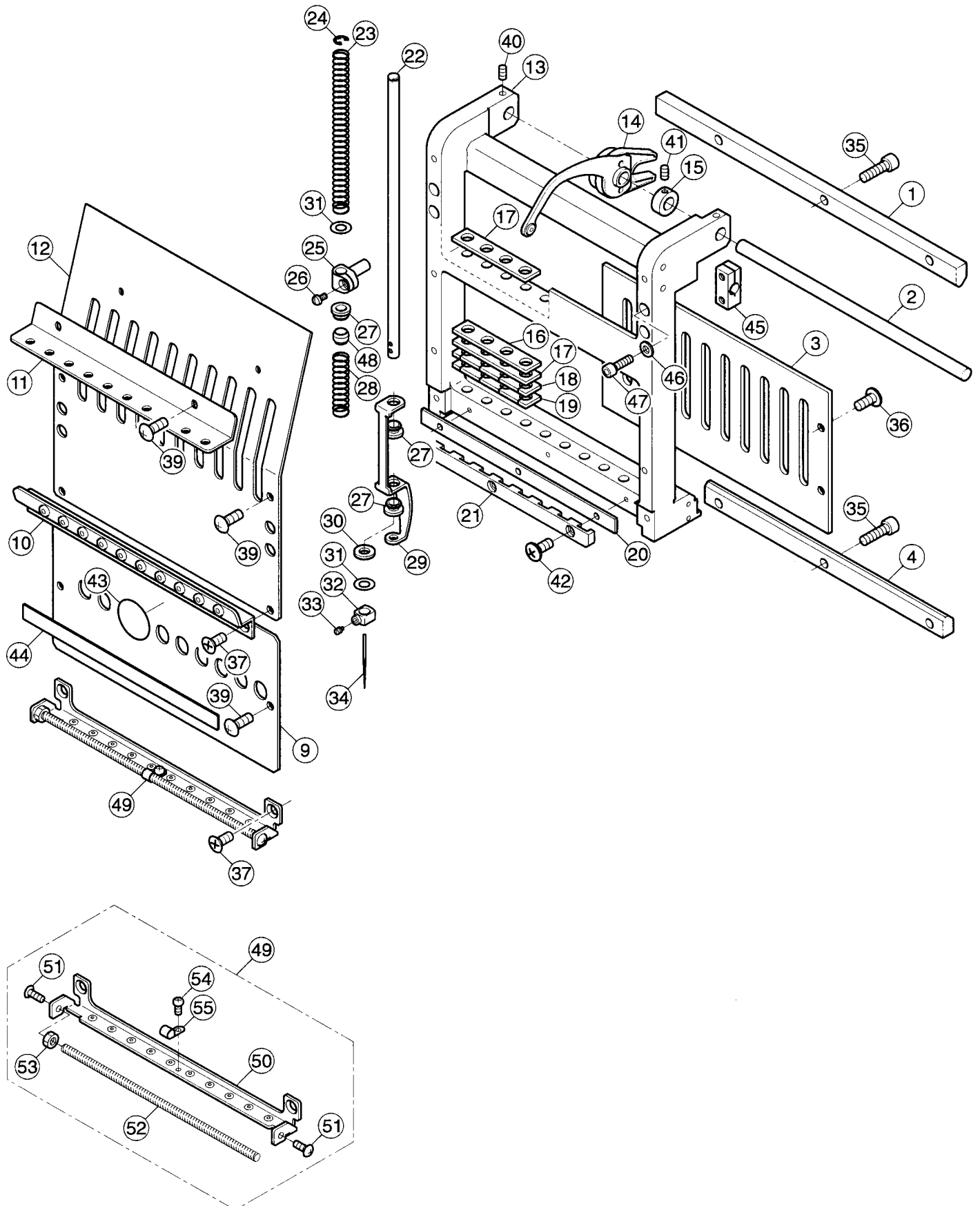
| 指図 / El't<br>PARTS NAMES |             | 3 0<br>Moving shaft 1 | 3 0<br>Moving shaft 2 |  |
|--------------------------|-------------|-----------------------|-----------------------|--|
| 機種<br>MODEL              | 1 5 0 6 B   | HCM10370              | HCG06070              |  |
|                          | X 1 5 0 4 B | HMF06200              | -                     |  |
|                          | 1 5 0 4 B   | HMF06131              | -                     |  |
|                          | 1 5 0 2 B   | HMF06210              | -                     |  |
|                          |             |                       |                       |  |



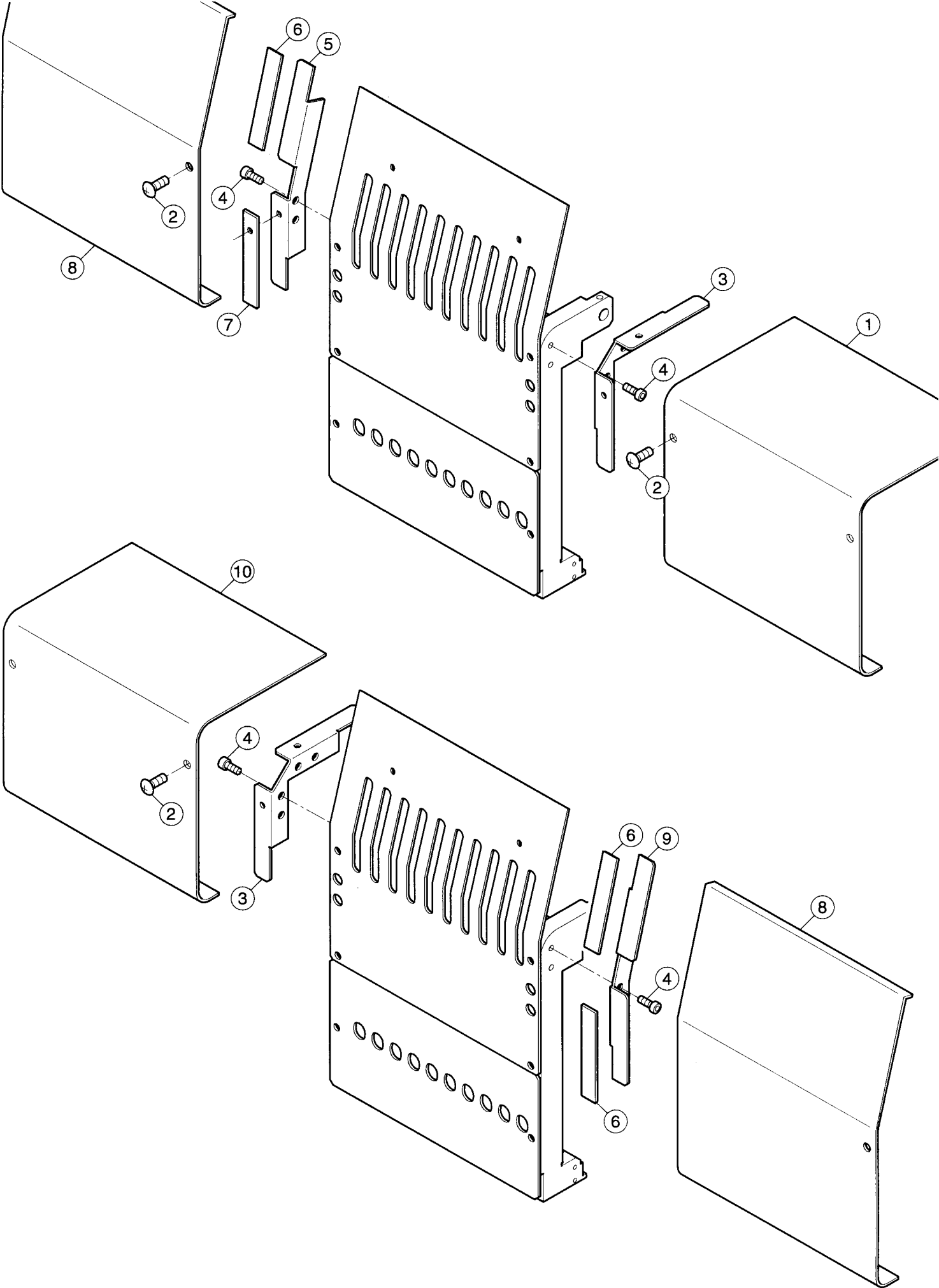
# TIMING DETECTING UNIT

CGa0623 13a-1

| Ass'y | El't | Parts No. | Parts Names                           | Note |
|-------|------|-----------|---------------------------------------|------|
|       | 1    | HCG75001  | Rotary encoder                        |      |
|       | 2    | HMF10194  | Encoder bracket A                     |      |
|       | 3    | WPAA05000 | Plain washer (M5)                     |      |
|       | 4    | WSAA05000 | Spring lock washer (M5)               |      |
|       | 5    | SCAA05012 | Hexagon socket head cap screw (M5x12) |      |
|       | 6    | HMF10210  | Encoder drive gear A                  |      |
|       | 7    | SCAA04010 | Hexagon socket head cap screw (M4x10) |      |
|       | 8    | WPAA03000 | Plain washer (M3)                     |      |
|       | 9    | SCAA03008 | Hexagon socket head cap screw (M3x8)  |      |
|       | 10   | MPB00620  | Bearing (LF1680ZZ)                    |      |
|       | 11   | HMF10221  | Encoder drive gear B                  |      |
|       | 12   | HMF10230  | Encoder collar                        |      |
|       | 13   | HMF10203  | Encoder bracket B                     |      |
|       | 14   | WPAA04000 | Plain washer (M4)                     |      |
|       | 15   | WSAA04000 | Spring lock washer (M4)               |      |
|       | 16   | SCAA04028 | Hexagon socket head cap screw (M4x28) |      |
|       | 17   | HCG10080  | Encoder cover                         |      |
|       | 18   | SPCD03006 | Pan head screw (cross recessed, M3x6) |      |
|       | 19   | HMF10610  | Detecting slit disc                   |      |
|       | 20   | C0402041  | Slit disc boss                        |      |
|       | 21   | SSAA05008 | Hexagon socket set screw (M5x8)       |      |
|       | 22   | SPDD03008 | Pan head screw (cross recessed, M3x8) |      |
|       | 23   | HMF83050  | Timing detecting board ass'y          |      |
|       | 24   | HMF10251  | Board bracket                         |      |
|       | 25   | NHAD03000 | Hexagon nut (M3)                      |      |
|       | 26   | C0402070  | Board cover                           |      |
|       | 27   | HCG10470  | Edging                                |      |



| Ass'y | El't | Parts No. | Parts Names                                    | Note |
|-------|------|-----------|------------------------------------------------|------|
|       | 1    | HMG12760  | Upper rail (for 15 needle)                     |      |
|       | 2    | SCAA04015 | Hexagon socket head cap screw (M4x15)          |      |
|       | 3    | HMG12790  | Take-up lever shaft (for 15 needle)            |      |
|       | 4    | HMG12770  | Lower rail (for 15 needle)                     |      |
|       | 6    | SBAD03008 | Binding head screw (M3x8)                      |      |
|       | 7    | SBAD04014 | Binding head screw (M4x14)                     |      |
|       | 8    | SBB03005  | Binding head screw (M3x5)                      |      |
|       | 9    | SGAB04008 | Flat head screw (cross recessed head, M4x8)    |      |
|       | 10   | HMG12940  | Lower thread guide plate ass'y (for 15 needle) |      |
| 10 *  | 11   | HMG12841  | Lower thread guide plate (for 15 needle)       |      |
| 10 *  | 12   | STAB04012 | Truss head screw (cross recessed, M4x12)       |      |
| 10 *  | 13   | HMG12850  | Spring (for 15 needle)                         |      |
| 10 *  | 14   | NHAB04000 | Hexagon nut (M4)                               |      |
| 10 *  | 15   | SPAB03005 | Pan head screw (cross recessed, M3x5)          |      |
| 10 *  | 16   | HMG12600  | Spring bracket                                 |      |
|       | 17   | HMG12800  | Lower front panel (for 15 needle)              |      |
|       | 18   | STAB04008 | Truss head screw (cross recessed, M4x8)        |      |
|       | 19   | M0412382  | Thread holding rubber                          |      |
|       | 20   | -         | Number sticker                                 |      |
|       | 21   | HSA12090  | Thread guide plate B ass'y (for 15 needle)     |      |
|       | 22   | HMG12880  | Thread guide plate A ass'y (for 15 needle)     |      |
|       | 23   | HCG12150  | Upper front panel (for 15 needle)              |      |
|       | 24   | M0412164  | Needle bar                                     |      |
|       | 25   | MPR00080  | E-ring (E-5)                                   |      |
|       | 29   | MPR00500  | O-ring (P-7)                                   |      |
|       | 30   | HMF12112  | Bushing                                        |      |
|       | 32   | HSA12010  | Needle holder C                                |      |
| 32 *  | 33   | HSA12020  | Screw for needle holder                        |      |
|       | 34   | MPZ00150  | Needle (#11)                                   |      |
| 66 *  | 39   | M0412200  | Screw for needle bar boss                      |      |
|       | 43   | SSAA04004 | Hexagon socket set screw (M4x4)                |      |
|       | 44   | HSA12040  | Take-up lever ass'y                            |      |
|       | 45   | SSAA03006 | Hexagon socket set screw (M3x6)                |      |
|       | 46   | HMF12152  | Collar                                         |      |
|       | 47   | HMF12310  | Fasten block                                   |      |
|       | 48   | WPBA04000 | Plain washer (M4)                              |      |
|       | 49   | SCCA04025 | Hexagon socket head cap screw (M4x25)          |      |
|       | 52   | HMG13100  | Moving head (for 15 needle)                    |      |
|       | 53   | HMG12870  | Pressure foot sheet (for 15 needle)            |      |
|       | 54   | HMG12890  | Pressure foot guide (for 15 needle)            |      |
|       | 55   | HMG13590  | Spacer (right)                                 |      |
|       | 56   | HMG13600  | Spacer (left)                                  |      |
|       | 57   | HMG13580  | Side cover                                     |      |
|       | 59   | WPAD03000 | Plain washer (M3)                              |      |
|       | 61   | HMG13750  | Guide plate (for 15 needle)                    |      |
|       | 62   | M0412172  | Needle bar spring 1                            |      |
|       | 63   | HMG13680  | Spring                                         |      |
|       | 64   | HMG13540  | Pressure foot bracket                          |      |
|       | 65   | MPR00510  | O-ring                                         |      |
|       | 66   | HMG13701  | Link ass'y                                     |      |
|       | 67   | HMG13630  | Pressure foot                                  |      |
|       | 68   | HMG13670  | Pressure foot felt (0.6mm)                     |      |

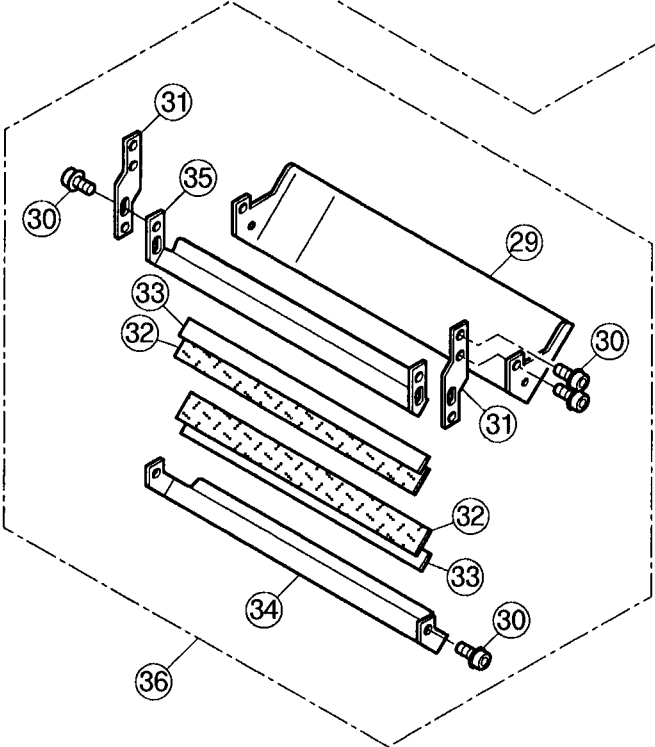
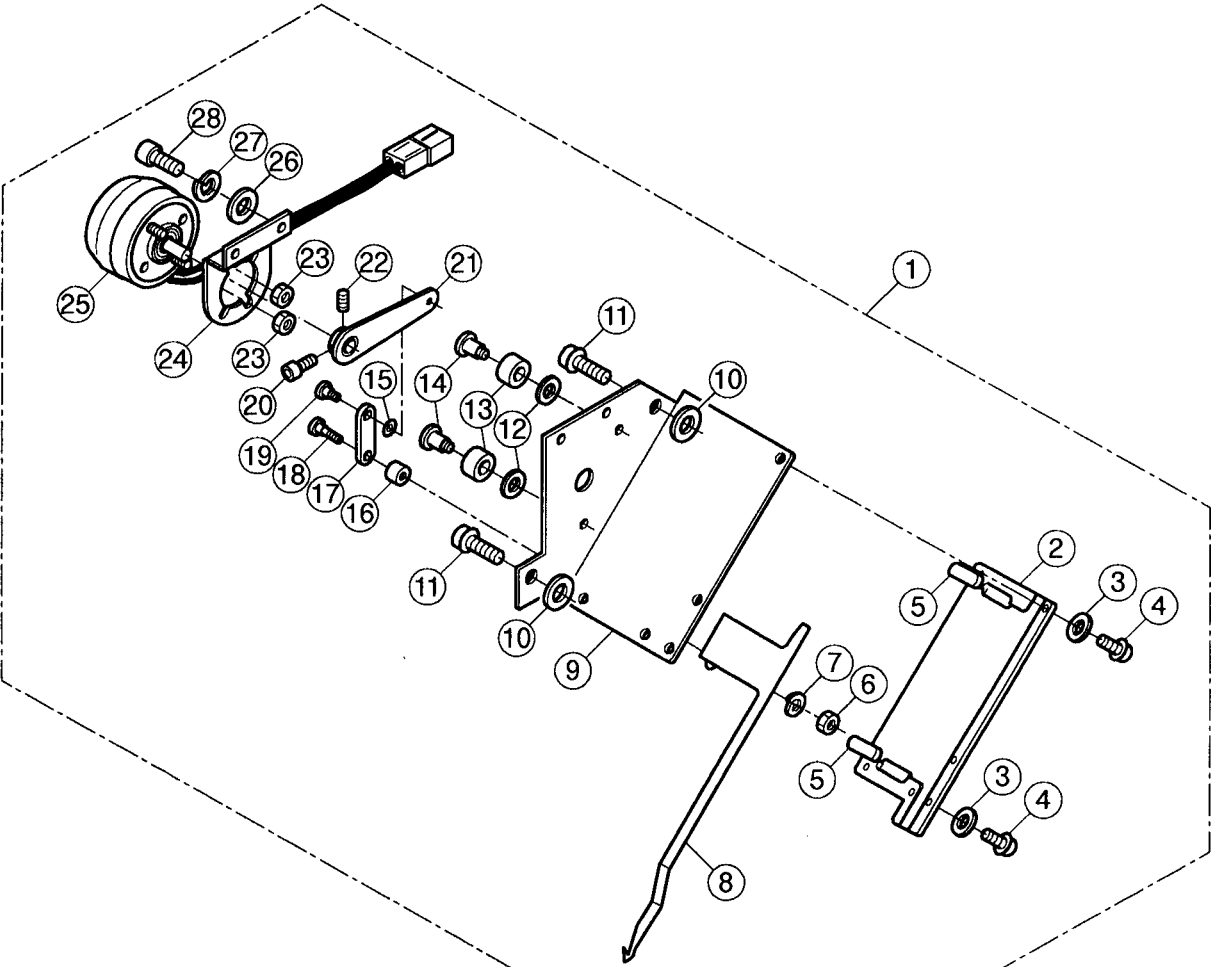


# MOVING HEAD 2

CGa9827

14b-1

| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | →1a       | Head cover (right)                      |      |
|       | 2    | STAB04008 | Truss head screw (cross recessed, M4x8) |      |
|       | 3    | HCG13050  | Head cover bracket (both ends)          |      |
|       | 4    | SCAA04008 | Hexagon socket head cap screw (M4x8)    |      |
|       | 5    | HCG13070  | Head cover bracket (left)               |      |
|       | 6    | HMF13302  | Cover magnet                            |      |
|       | 7    | HMF13410  | Cover magnet B                          |      |
|       | 8    | →2a       | Head cover, middle (by model)           |      |
|       | 9    | HCG13060  | Head cover bracket (right)              |      |
|       | 10   | →1a       | Head cover (left)                       |      |

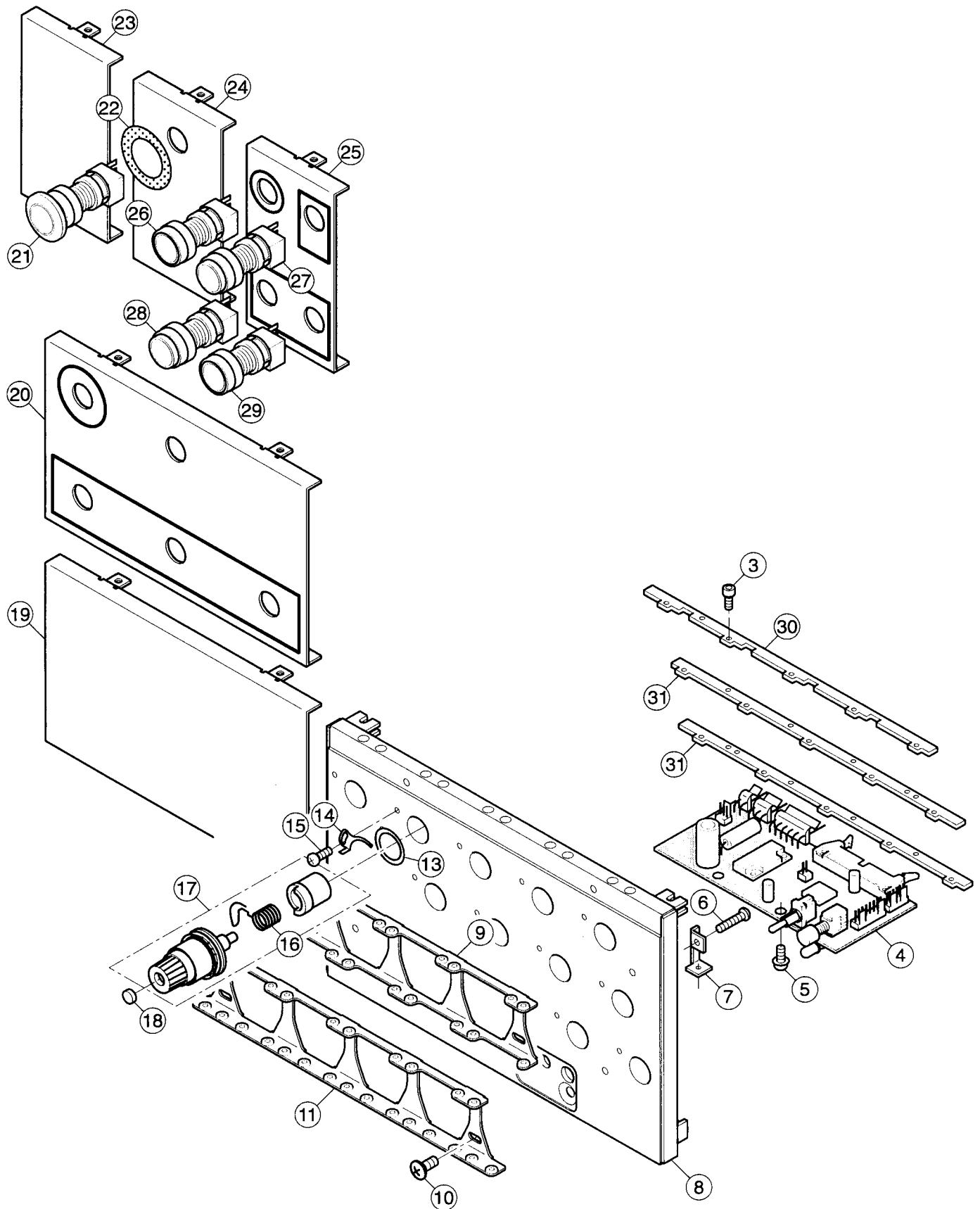




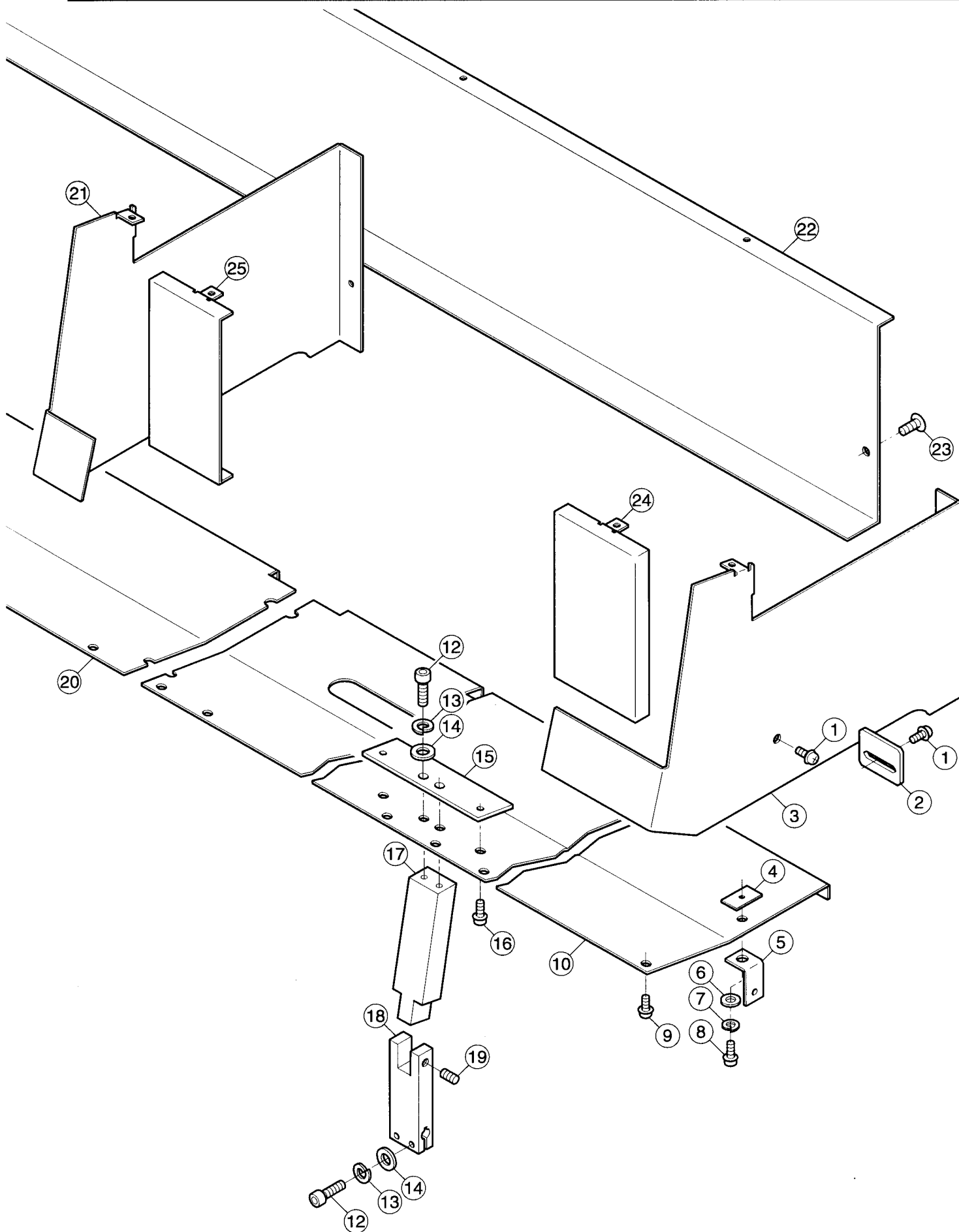
# THREAD CATCHER

CAB0821 15a-1

| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCM914120 | Thread catcher ass'y                             |      |
|       | 2    | HMF14170  | Guide plate B                                    |      |
|       | 3    | WPAB03000 | Plain washer (M3)                                |      |
|       | 4    | SPDB03008 | Pan head screw (cross recessed, M3x8)            |      |
|       | 5    | M0414180  | Cushion                                          |      |
|       | 6    | NHAA03000 | Hexagon nut (M3)                                 |      |
|       | 7    | WSAA03000 | Spring lock washer (M3)                          |      |
|       | 8    | C0414055  | Hook                                             |      |
|       | 9    | HCM14012  | Bracket                                          |      |
|       | 10   | WPBA06000 | Plain washer (M6)                                |      |
|       | 11   | SCBA05008 | Hexagon socket head cap screw with flange (M5x8) |      |
|       | 12   | WPAD04000 | Plain washer (M4)                                |      |
|       | 13   | M0412241  | Plastic ring                                     |      |
|       | 14   | M0414080  | Hinge screw B                                    |      |
|       | 15   | M0414150  | Washer for hinge screw                           |      |
|       | 16   | C0414080  | Spacer for hinge screw                           |      |
|       | 17   | M0414162  | Connecting plate                                 |      |
|       | 18   | C0414070  | Hinge screw                                      |      |
|       | 19   | M0414142  | Hinge screw A                                    |      |
|       | 20   | SCAA03006 | Hexagon socket head cap screw (M3x6)             |      |
|       | 21   | M0414100  | Actuating plate                                  |      |
|       | 22   | SSAA03006 | Hexagon socket set screw (M3x6)                  |      |
|       | 23   | NHCC04000 | Hexagon nut (M4)                                 |      |
|       | 24   | M0414111  | Solenoid fixing plate                            |      |
|       | 25   | M0414121  | Solenoid                                         |      |
|       | 26   | WPAA04000 | Plain washer (M4)                                |      |
|       | 27   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 28   | SCAA04006 | Hexagon socket head cap screw (M4x6)             |      |
|       | 29   | HCG14150  | Hook guard (for 15 needle)                       |      |
|       | 30   | SCBA03006 | Hexagon socket head cap screw with flange (M3x6) |      |
|       | 31   | HCM14030  | Holder guide                                     |      |
|       | 32   | HCG14130  | Magic tape (for 15 needle)                       |      |
|       | 33   | HCG14140  | Adhesive tape (for 15 needle)                    |      |
|       | 34   | HCG14120  | Holder (lower) (for 15 needle)                   |      |
|       | 35   | HCG14110  | Holder (upper) (for 15 needle)                   |      |
|       | 36   | --        | Thread holder ass'y (for 15 needle)              |      |



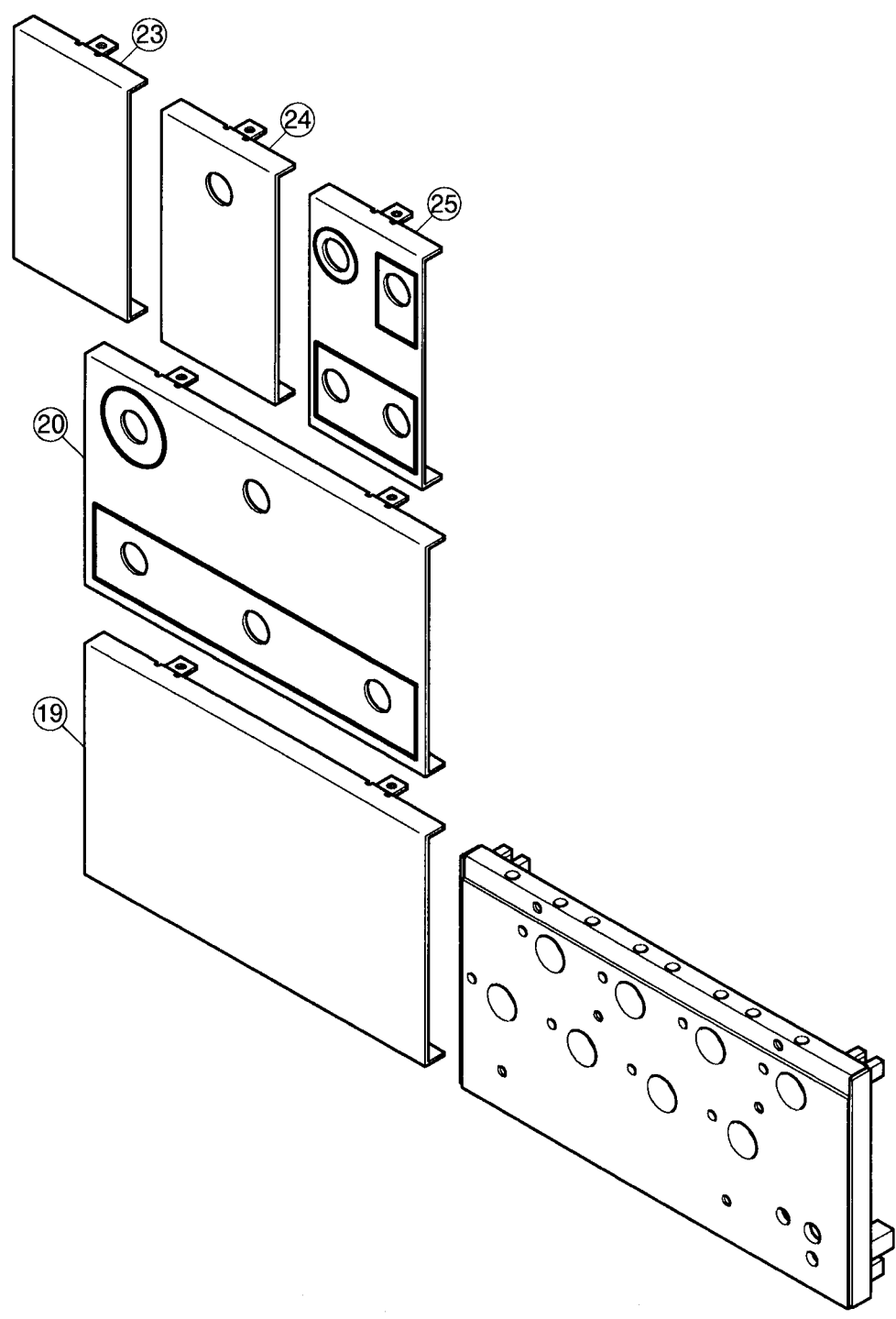
| Ass'y | El't | Parts No. | Parts Names                                       | Note |
|-------|------|-----------|---------------------------------------------------|------|
|       | 3    | SCAD03008 | Hexagon socket head cap screw (M3x8)              |      |
|       | 4    | HCG83151  | Thread detecting board ass'y                      |      |
|       | 5    | SPDD03006 | Pan head screw (cross recessed, M3x6)             |      |
|       | 6    | SMAC03008 | Pan head tapping screw (cross recessed head, 3x8) |      |
|       | 7    | M0416031  | Bracket for thread detecting board                |      |
|       | 8    | HMG17260  | Thread tension bracket (for 15 needle)            |      |
|       | 9    | HMG17270  | Thread guide upper ass'y                          |      |
|       | 10   | SBAB04008 | Binding head screw (M4x8)                         |      |
|       | 11   | HMG17290  | Thread guide lower ass'y                          |      |
|       | 13   | HMF17820  | Isolation plate                                   |      |
|       | 14   | HMF17870  | Adjusting plate                                   |      |
|       | 15   | SPAC03025 | Pan head screw (cross recessed, M3x25)            |      |
| 17*   | 16   | M0416186  | Thread adjusting spring                           |      |
|       | 17   | HMF17840  | Thread tension ass'y                              |      |
|       | 18   | HMF17860  | Thread tension lid                                |      |
|       | 19   | →17a      | Thread tension cover B (by model)                 |      |
|       | 20   | →17a      | Thread tension cover (by model)                   |      |
|       | 21   | EPS00840  | Emergency stop switch                             |      |
|       | 22   | HMF51080  | Emergency stop sticker                            |      |
|       | 23   | →17a      | Thread tension cover A (by model)                 |      |
|       | 24   | →17a      | Thread tension cover B (by model)                 |      |
|       | 25   | →17a      | Thread tension cover C (by model)                 |      |
|       | 26   | EPS00730  | Thread cut switch (blue)                          |      |
|       | 27   | EPS00720  | forward switch (yellow)                           |      |
|       | 28   | EPS00680  | Stop switch (black)                               |      |
|       | 29   | EPS00670  | Start switch (white)                              |      |
|       | 30   | HMG17430  | Thread tension fixer E (for 15 needle)            |      |
|       | 31   | HMG17420  | Thread tension fixer D (for 15 needle)            |      |



# THREAD TENSION UNIT 2

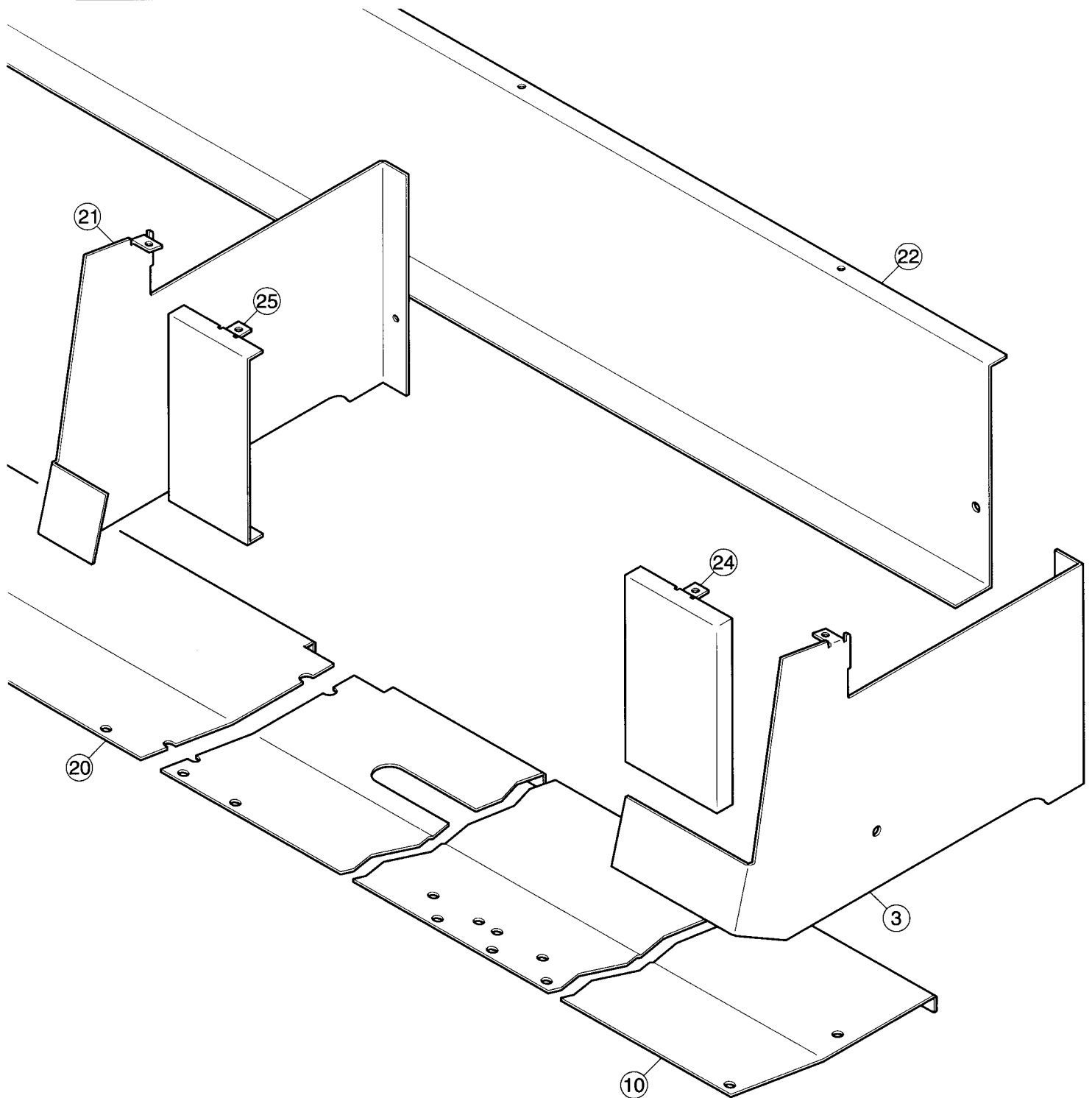
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| Ass'y | El't | Parts No. | Parts Names                                                  | Note |
|-------|------|-----------|--------------------------------------------------------------|------|
|       | 1    | SPDB04008 | Pan head screw (cross recessed, M4x8)                        |      |
|       | 2    | HCG17331  | Stopper                                                      |      |
|       | 3    | →17b      | Thread tension side cover (right) (by model)                 |      |
|       | 4    | M0420901  | Plate nut                                                    |      |
|       | 5    | HMF10281  | Cover bracket B                                              |      |
|       | 6    | WPAD04000 | Plain washer (M4)                                            |      |
|       | 7    | WSAD04000 | Spring lock washer (M4)                                      |      |
|       | 8    | SCBD04010 | Hexagon socket head cap screw with flange (M4x10)            |      |
|       | 9    | SPDB04010 | Pan head screw (cross recessed, M4x10)                       |      |
|       | 10   | →17b      | Fixing plate B (right) for thread tension bracket (by model) |      |
|       | 12   | SCAA04015 | Hexagon socket head cap screw (M4x15)                        |      |
|       | 13   | WSAA04000 | Spring lock washer (M4)                                      |      |
|       | 14   | WPAA04000 | Plain washer (M4)                                            |      |
|       | 15   | HCG10120  | Fixing plate                                                 |      |
|       | 16   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8)             |      |
|       | 17   | HCM10170  | Joint E                                                      |      |
|       | 18   | HCG10130  | Joint                                                        |      |
|       | 19   | SSAA04008 | Hexagon socket set screw (M4x8)                              |      |
|       | 20   | →17b      | Fixing plate B (left) for thread tension bracket (by model)  |      |
|       | 21   | →17b      | Thread tension side cover (left) (by model)                  |      |
|       | 22   | →17b      | Rear cover (by model)                                        |      |
|       | 23   | STAB04006 | Truss head screw (cross recessed, M4x6)                      |      |
|       | 24   | →17b      | Thread tension cover (right) (by model)                      |      |
|       | 25   | →17b      | Thread tension cover (left) (by model)                       |      |



| 指図 / EIt<br>PARTS NAMES |             | 1 9<br>Thread tension<br>cover B | 2 0<br>Thread tension<br>cover |  |  |
|-------------------------|-------------|----------------------------------|--------------------------------|--|--|
| 機種<br>MODEL             | 1 5 0 6 B   | -                                | -                              |  |  |
|                         | X 1 5 0 4 B | HCG17670                         | HCG17660                       |  |  |
|                         | 1 5 0 4 B   | -                                | -                              |  |  |
|                         | 1 5 0 2 B   | -                                | HCG17660                       |  |  |
|                         |             |                                  |                                |  |  |

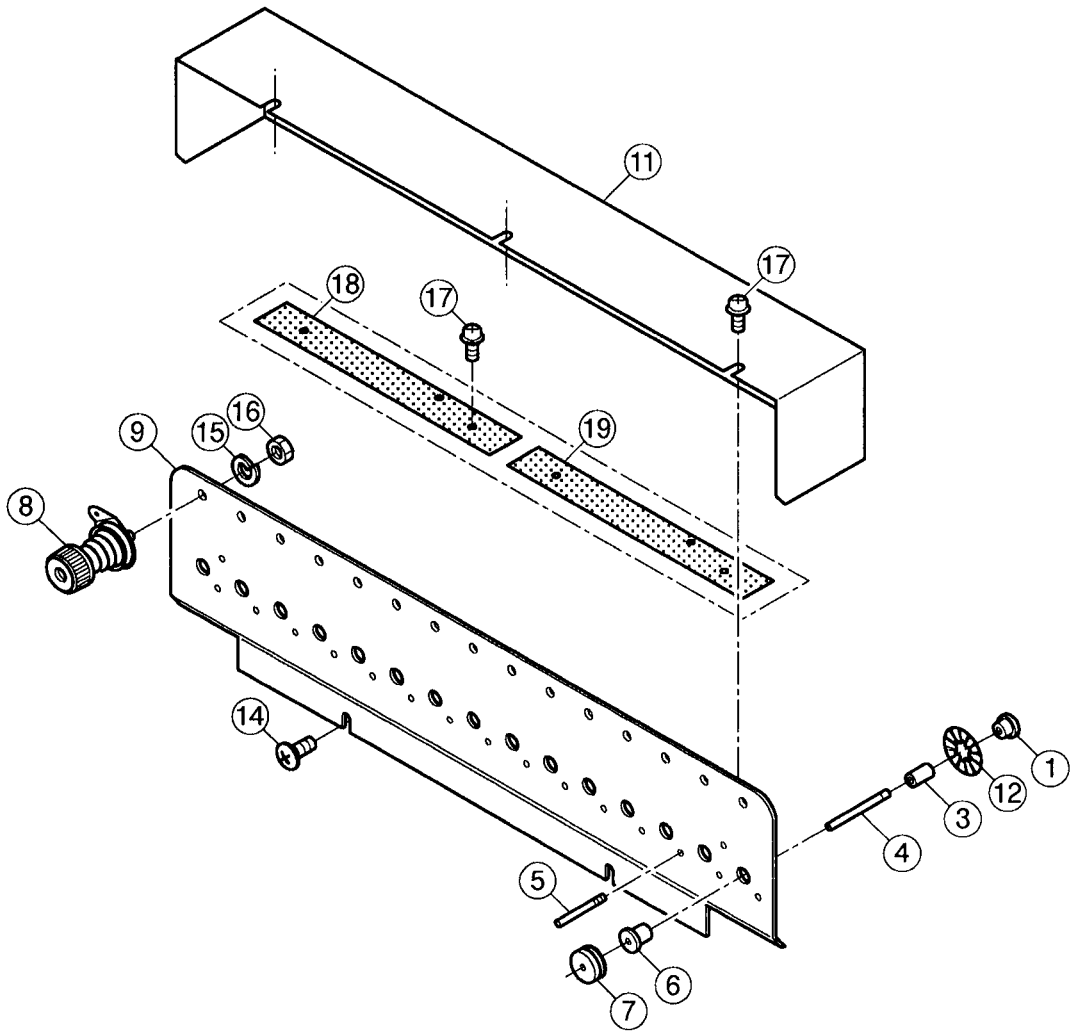
| 指図 / EIt<br>PARTS NAMES |             | 2 3<br>Thread tension<br>cover A | 2 4<br>Thread tension<br>cover B | 2 5<br>Thread tension<br>cover C |  |
|-------------------------|-------------|----------------------------------|----------------------------------|----------------------------------|--|
| 機種<br>MODEL             | 1 5 0 6 B   | CGB16270                         | CGB16260                         | CGB16250                         |  |
|                         | X 1 5 0 4 B | -                                | -                                | -                                |  |
|                         | 1 5 0 4 B   | CGB16270                         | CGB16260                         | CGB16250                         |  |
|                         | 1 5 0 2 B   | -                                | -                                | -                                |  |
|                         |             |                                  |                                  |                                  |  |





| 指図 / E'l't<br>PARTS NAMES |             | 3<br>Thread tension<br>side cover (right) | 2 1<br>Thread tension<br>side cover (left) | 1 0<br>Fixing plate B<br>(right) | 2 0<br>Fixing plate B<br>(left) |
|---------------------------|-------------|-------------------------------------------|--------------------------------------------|----------------------------------|---------------------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG17752                                  | HCG17762                                   | HCG17731                         | HCG17740                        |
|                           | X 1 5 0 4 B | HCG17621                                  | HCG17630                                   | HCG17601                         | -                               |
|                           | 1 5 0 4 B   | HCG17752                                  | HCG17762                                   | HCG17801                         | -                               |
|                           | 1 5 0 2 B   | HCG17621                                  | HCG17630                                   | HCG17691                         | -                               |
|                           |             |                                           |                                            |                                  |                                 |

| 指図 / E'l't<br>PARTS NAMES |             | 2 2<br>Rear cover<br>(right) | 2 2<br>Rear cover<br>(left) | 2 4<br>Thread tension<br>cover (right) | 2 5<br>Thread tension<br>cover (left) |
|---------------------------|-------------|------------------------------|-----------------------------|----------------------------------------|---------------------------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG17770                     | HCG17780                    | CGB16051                               | CGB16061                              |
|                           | X 1 5 0 4 B | HCG17610                     | -                           | HCG17640                               | HCG17651                              |
|                           | 1 5 0 4 B   | HCG17810                     | -                           | CGB16051                               | CGB16061                              |
|                           | 1 5 0 2 B   | HCG17700                     | -                           | HCG17640                               | HCG17651                              |
|                           |             |                              |                             |                                        |                                       |

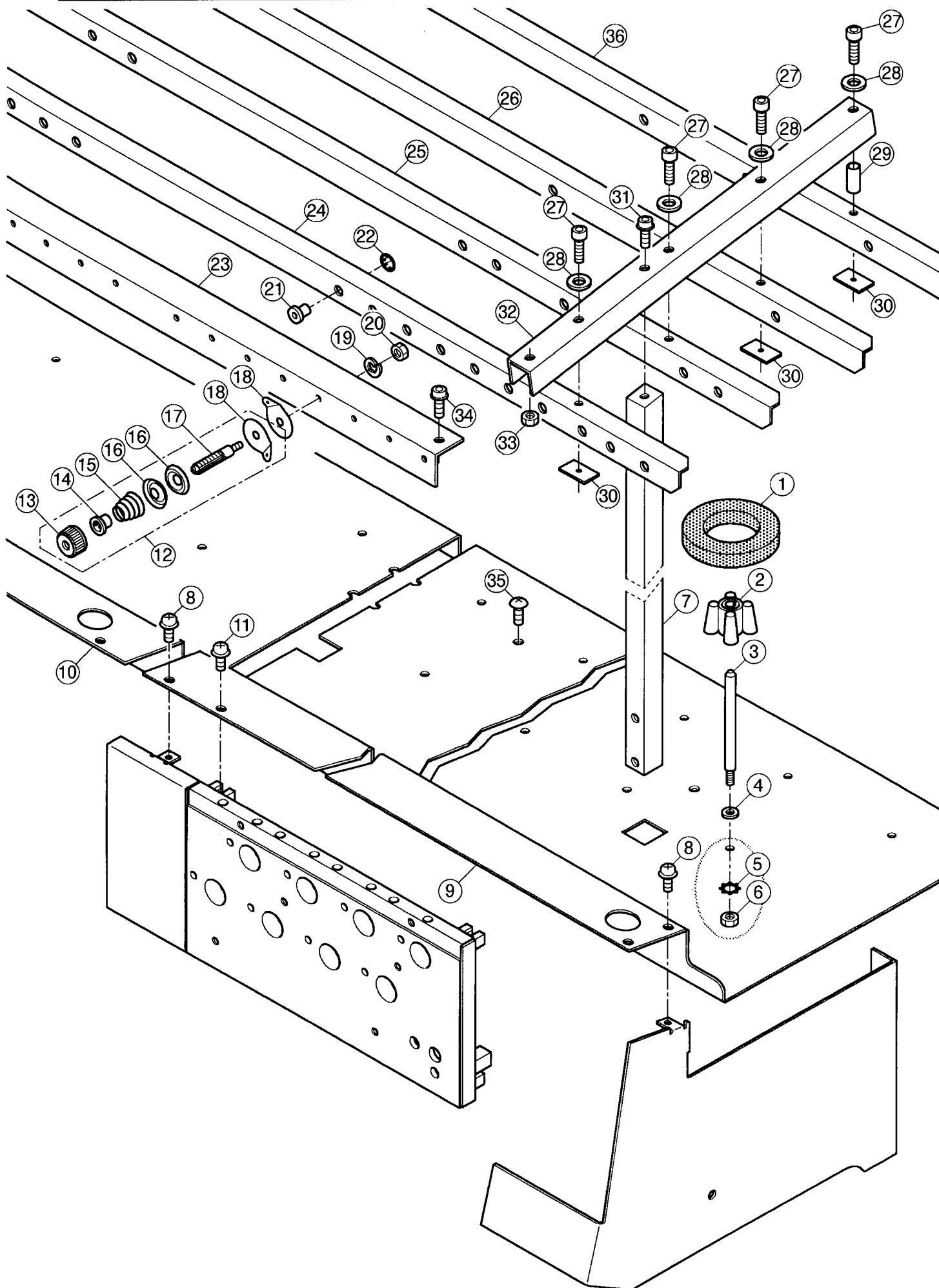


# ROTARY TYPE THREAD BREAK DETECTING DEVICE

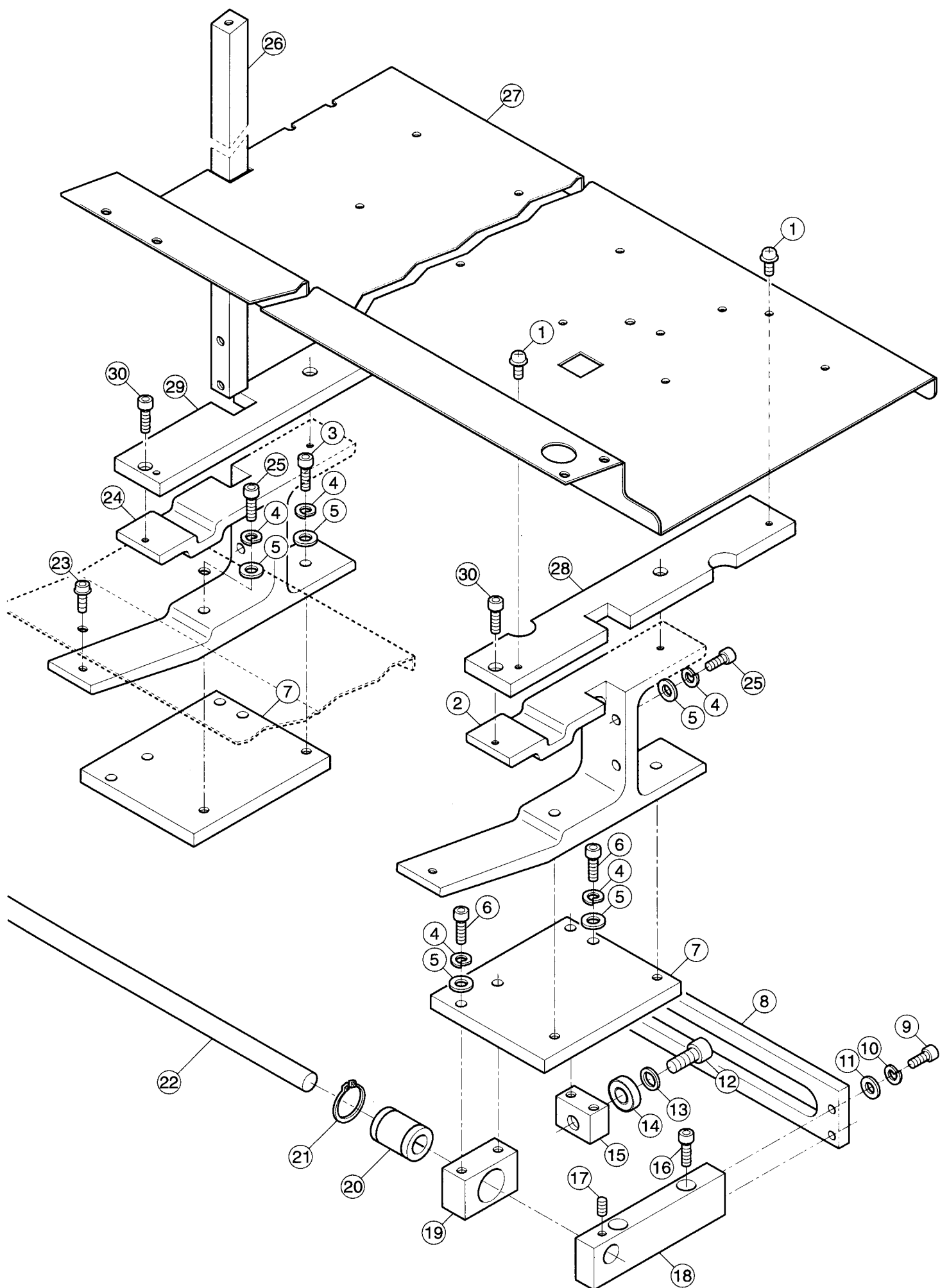
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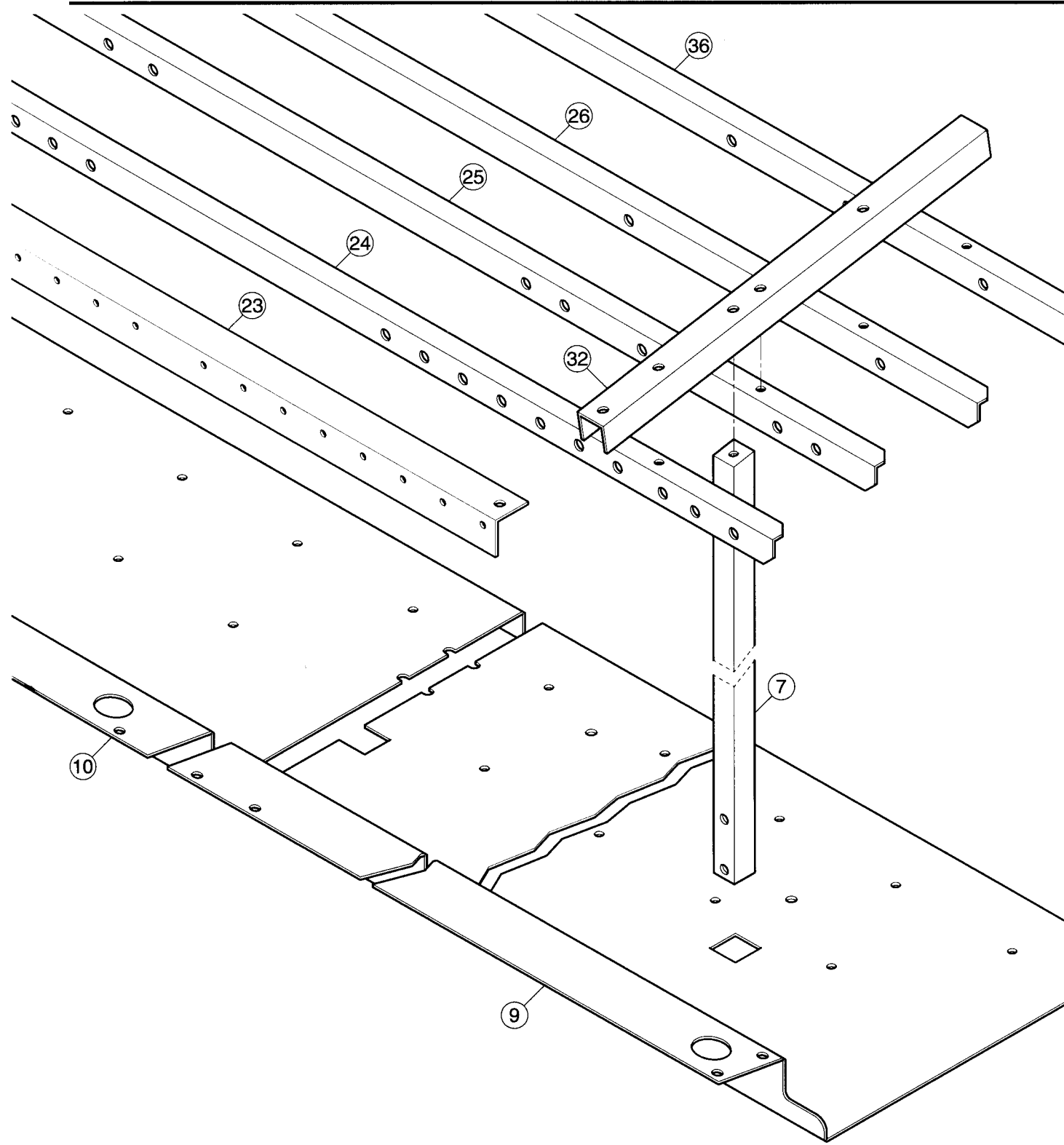
| Ass'y | El't | Parts No. | Parts Names                            | Note |
|-------|------|-----------|----------------------------------------|------|
|       | 1    | MPZ00350  | Eyelet                                 |      |
|       | 3    | MPZ00360  | Spacer                                 |      |
|       | 4    | M0445070  | Roller shaft                           |      |
|       | 5    | M0445103  | Thread guide bar                       |      |
|       | 6    | M0445080  | Roller shaft support                   |      |
|       | 7    | M0445092  | Detecting roller                       |      |
|       | 8    | M0416124  | Thread guide unit                      |      |
|       | 9    | HMG17310  | Fixing plate (for 15 needle)           |      |
|       | 11   | HMG17320  | Cover for fixing plate (for 15 needle) |      |
|       | 12   | HMG17212  | Slit disc 2                            |      |
|       | 14   | SBAB04014 | Binding head screw (M4x14)             |      |
|       | 15   | WSAA04000 | Spring lock washer (M4)                |      |
|       | 16   | NHAA04000 | Hexagon nut (M4)                       |      |
|       | 17   | SPDD03006 | Pan head screw (cross recessed, M3x6)  |      |
|       | 18   | HCG83140  | Detecting board B ass'y                |      |
|       | 19   | HCG83130  | Detecting board A ass'y                |      |



| Ass'y | El't | Parts No. | Parts Names                                                  | Note |
|-------|------|-----------|--------------------------------------------------------------|------|
|       | 1    | HMF20571  | Thread stand felt (80)                                       |      |
|       | 2    | MPZ00340  | Plastic spring                                               |      |
|       | 3    | M0420032  | Thread stand pin                                             |      |
|       | 4    | M0420890  | Washer                                                       |      |
|       | 5    | WTBC06000 | Toothed lock washer                                          |      |
|       | 6    | NHAB05000 | Hexagon nut (M5)                                             |      |
|       | 7    | →20a      | Thread guide pillar (by model)                               |      |
|       | 8    | SPDB04008 | Pan head screw (cross recessed, M4x8)                        |      |
|       | 9    | →20a      | Fixing plate A (right) for thread tension bracket (by model) |      |
|       | 10   | →20a      | Fixing plate A (left) for thread tension bracket (by model)  |      |
|       | 11   | SPDB04010 | Pan head screw (cross recessed, M4x10)                       |      |
|       | 12   | M0416124  | Thread guide unit                                            |      |
| 12*   | 13   | MPZ00960  | Tension nut                                                  |      |
| 12*   | 14   | MPZ00280  | Spring guide                                                 |      |
| 12*   | 15   | M0416111  | Spring                                                       |      |
| 12*   | 16   | MPZ00221  | Disc                                                         |      |
| 12*   | 17   | M0418211  | Tension shaft                                                |      |
| 12*   | 18   | MPZ00200  | Tension guide plate                                          |      |
|       | 19   | WSAA04000 | Spring lock washer (M4)                                      |      |
|       | 20   | NHAA04000 | Hexagon nut (M4)                                             |      |
|       | 21   | M0445080  | Eyelet                                                       |      |
|       | 22   | MPR00110  | SE-ring (SE-7)                                               |      |
|       | 23   | →20a      | Thread guide unit fixing plate (by model)                    |      |
|       | 24   | →20a      | Thread guide A (by model)                                    |      |
|       | 25   | →20a      | Thread guide B (by model)                                    |      |
|       | 26   | →20a      | Thread guide C (by model)                                    |      |
|       | 27   | SCAD04025 | Hexagon socket head cap screw (M4x25)                        |      |
|       | 28   | WPAD04000 | Plain washer (M4)                                            |      |
|       | 29   | HMF20770  | Spacer                                                       |      |
|       | 30   | M0420901  | Plate nut                                                    |      |
|       | 31   | SCBD05010 | Hexagon socket head cap screw with flange (M5x10)            |      |
|       | 32   | →20a      | Thread guide connecting plate (by model)                     |      |
|       | 33   | NHAD04000 | Hexagon nut (M4)                                             |      |
|       | 34   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8)             |      |
|       | 35   | STAB04006 | Truss head screw (cross recessed, M4x6)                      |      |
|       | 36   | →20a      | Thread guide D (by model)                                    |      |



| Ass'y | El't | Parts No. | Parts Names                                       | Note |
|-------|------|-----------|---------------------------------------------------|------|
|       | 1    | SPBB04008 | Pan head screw (cross recessed, M4x8)             |      |
|       | 2    | →20b      | Thread stand base (by model)                      |      |
|       | 3    | SCAA06020 | Hexagon socket head cap screw (M6x20)             |      |
|       | 4    | WSAA06000 | Spring lock washer (M6)                           |      |
|       | 5    | WPAA06000 | Plain washer (M6)                                 |      |
|       | 6    | SCAA06025 | Hexagon socket head cap screw (M6x25)             |      |
|       | 7    | HCG20340  | Thread stand base bracket                         |      |
|       | 8    | HCG20910  | Roller guide (for 15 needle)                      |      |
|       | 9    | SCAA05020 | Hexagon socket head cap screw (M5x20)             |      |
|       | 10   | WSAA05000 | Spring lock washer (M5)                           |      |
|       | 11   | WPAA05000 | Plain washer (M5)                                 |      |
|       | 12   | SCAA10020 | Hexagon socket head cap screw (M10x20)            |      |
|       | 13   | HMF24200  | Spacer                                            |      |
|       | 14   | MPB00560  | Bearing (6900ZZ)                                  |      |
|       | 15   | HCG20060  | Roller support                                    |      |
|       | 16   | SCAA06035 | Hexagon socket head cap screw (M6x35)             |      |
|       | 17   | SSAA05006 | Hexagon socket set screw (M5x6)                   |      |
|       | 18   | HCG20041  | LM shaft support                                  |      |
|       | 19   | HCG20030  | LM case                                           |      |
|       | 20   | MPB00700  | Linear bush (LM13UU)                              |      |
|       | 21   | MPR00450  | C-ring (C-22)                                     |      |
|       | 22   | MPB00710  | LM shaft (SF13-300L)                              |      |
|       | 23   | SCBA04008 | Hexagon socket head cap screw with flange (M4x8)  |      |
|       | 24   | →20b      | Thread stand base (by model)                      |      |
|       | 25   | SCAA06030 | Hexagon socket head cap screw (M6x30)             |      |
|       | 26   | →19a      | Thread guide pillar                               |      |
|       | 27   | →19a      | Fixing plate A (right) for thread tension bracket |      |
|       | 28   | →20b      | Base (by model)                                   |      |
|       | 29   | →20b      | Base (by model)                                   |      |
|       | 30   | SCAA04008 | Hexagon socket head cap screw (M4x8)              |      |

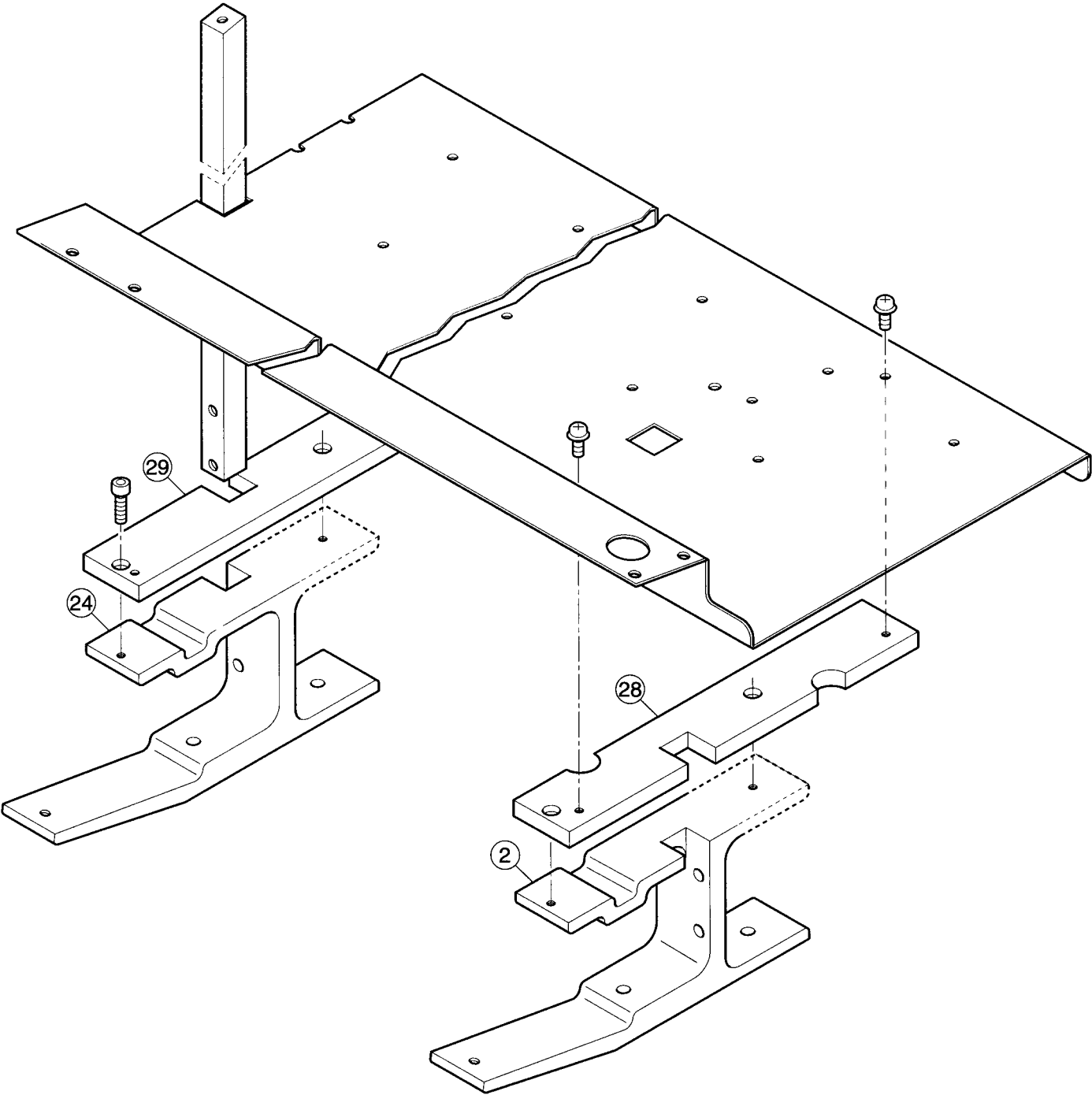




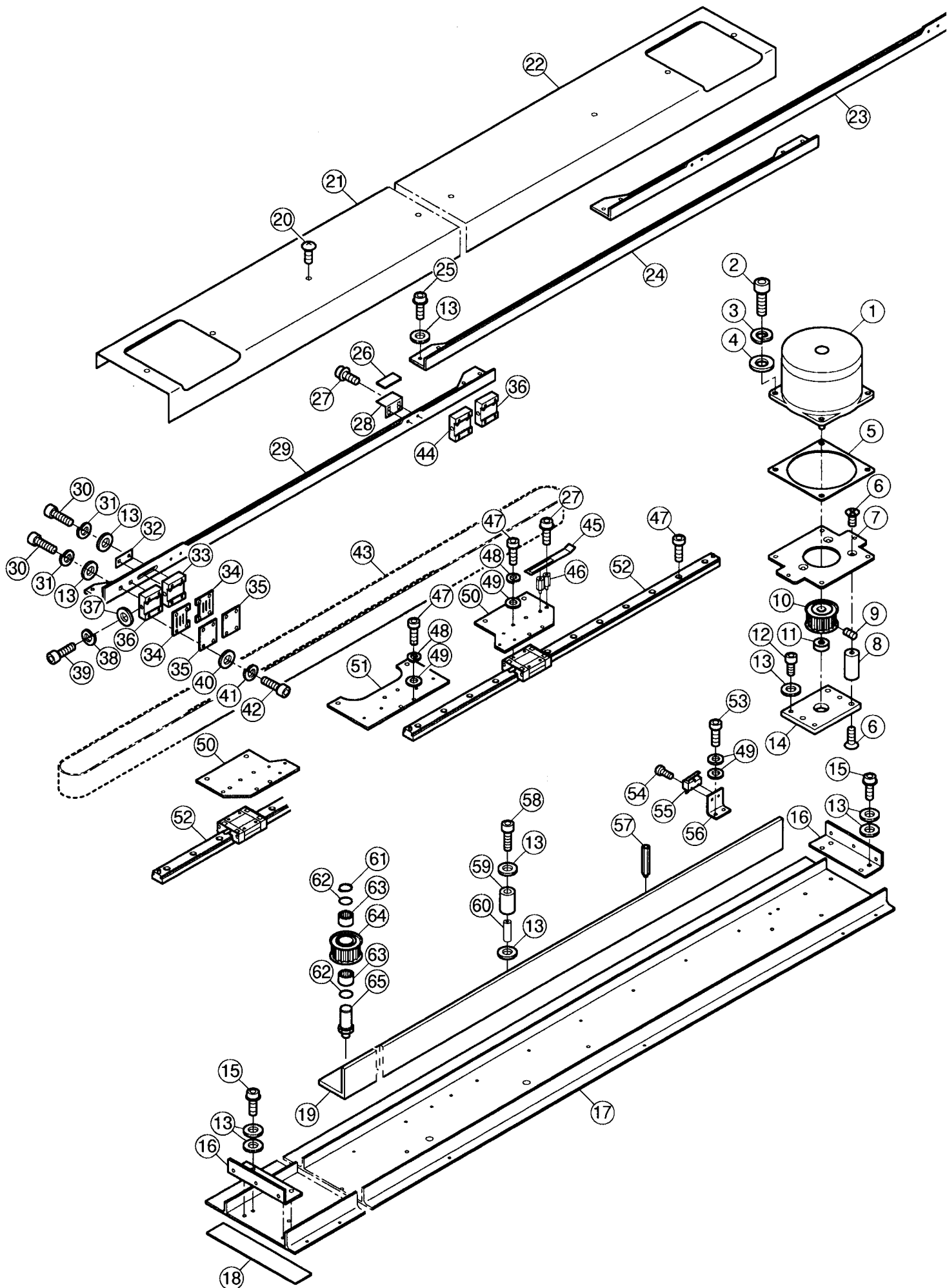
| 指図 / E'l't<br>PARTS NAMES |             | 7<br>Thread guide<br>pillar | 9<br>Fixing plate A<br>(right) | 1 0<br>Fixing plate A<br>(left) | 2 3<br>Thread guide unit<br>fixing plate |
|---------------------------|-------------|-----------------------------|--------------------------------|---------------------------------|------------------------------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG20980                    | HCG17710                       | HCG17720                        | HCG21000                                 |
|                           | X 1 5 0 4 B | HCG20071                    | HCG17591                       | -                               | HCG20850                                 |
|                           | 1 5 0 4 B   | HCG20980                    | HCG17790                       | -                               | HCG21050                                 |
|                           | 1 5 0 2 B   | HCG20071                    | HCG17680                       | -                               | HCG20920                                 |
|                           |             |                             |                                |                                 |                                          |

| 指図 / E'l't<br>PARTS NAMES |             | 2 4<br>Thread guide A | 2 5<br>Thread guide B | 2 6<br>Thread guide C | 3 6<br>Thread guide D |
|---------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG21010              | HCG21020              | HCG21030              | HCG21040              |
|                           | X 1 5 0 4 B | HCG20860              | HCG20870              | HCG20880              | HCG20890              |
|                           | 1 5 0 4 B   | HCG21060              | HCG21070              | HCG21080              | HCG21090              |
|                           | 1 5 0 2 B   | HCG20930              | HCG20940              | HCG20950              | HCG20960              |
|                           |             |                       |                       |                       |                       |

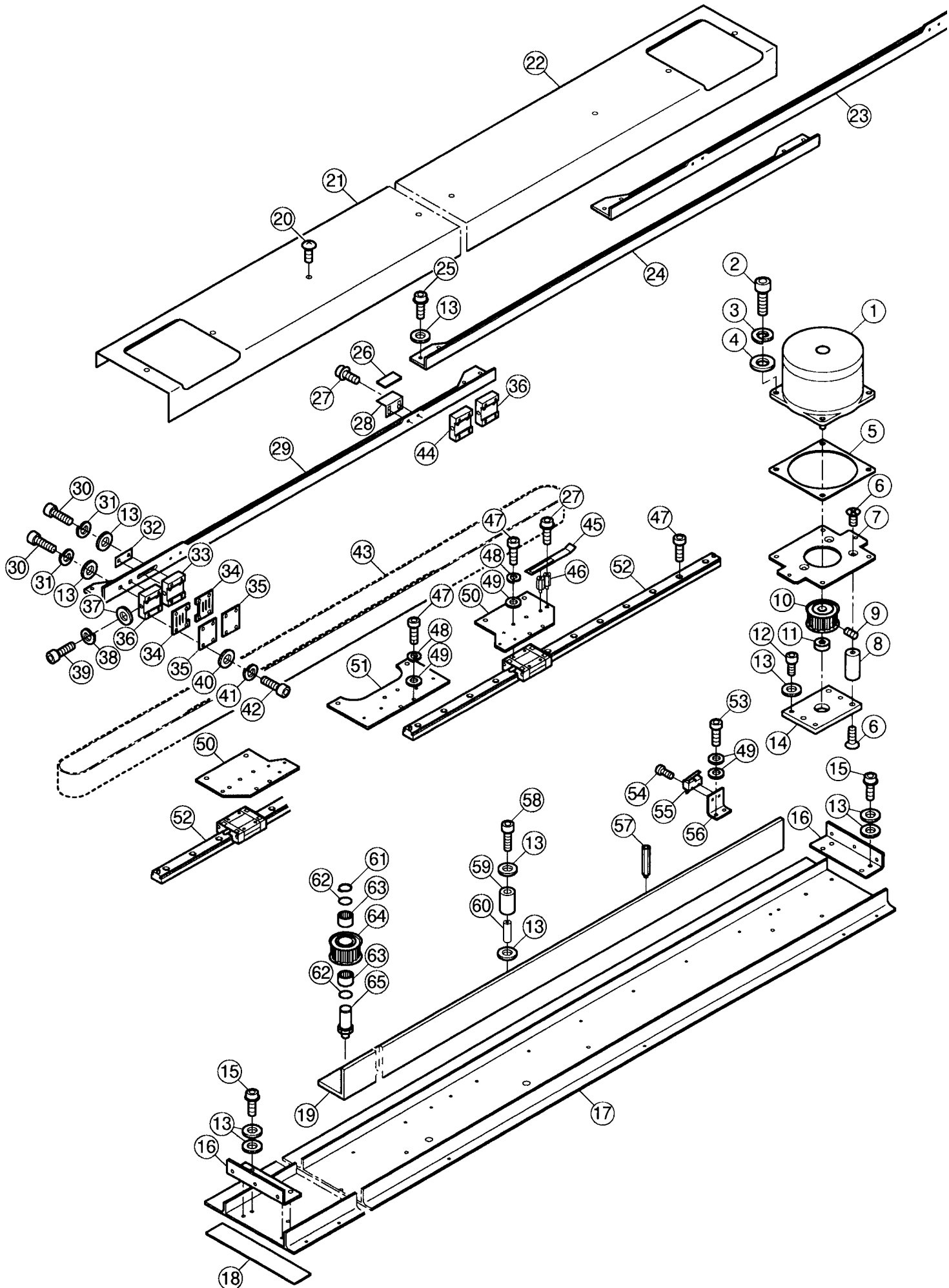
| 指図 / E'l't<br>PARTS NAMES |             | 3 2<br>Thread guide<br>connecting plate |  |  |  |
|---------------------------|-------------|-----------------------------------------|--|--|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG20990                                |  |  |  |
|                           | X 1 5 0 4 B | HCG20900                                |  |  |  |
|                           | 1 5 0 4 B   | HCG20990                                |  |  |  |
|                           | 1 5 0 2 B   | HCG20900                                |  |  |  |
|                           |             |                                         |  |  |  |



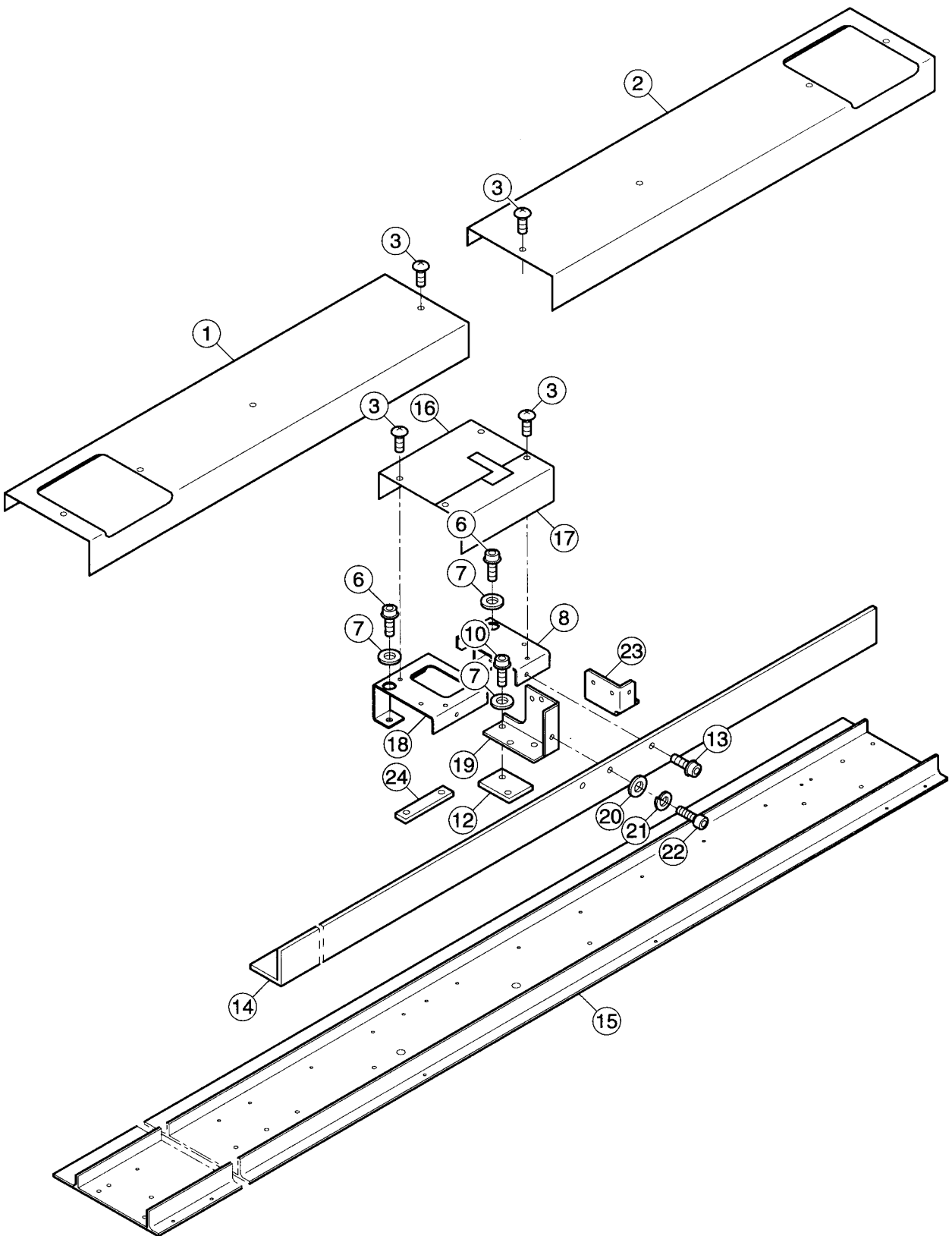
| 指図 / EIt<br>PARTS NAMES |             | 2<br>Thread stand<br>base | 2 4<br>Thread stand<br>base | 2 8<br>Base | 2 9<br>Base |
|-------------------------|-------------|---------------------------|-----------------------------|-------------|-------------|
| 機種<br><br>MODEL         | 1 5 0 6 B   | HCG20330                  | HCG20330                    | HCG20970    | HCG20970    |
|                         | X 1 5 0 4 B | HCG20320                  | HCG20330                    | HCG20830    | HCG20840    |
|                         | 1 5 0 4 B   | HCG20330                  | HCG20330                    | HCG20970    | HCG20970    |
|                         | 1 5 0 2 B   | HCG20320                  | HCG20330                    | HCG20830    | HCG20840    |
|                         |             |                           |                             |             |             |



| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | EPM00410  | Pulse motor                                      |      |
|       | 2    | SCAA05015 | Hexagon socket head cap screw (M5x15)            |      |
|       | 3    | WSAA05000 | Spring lock washer (M5)                          |      |
|       | 4    | WPAA05000 | Plain washer (M5)                                |      |
|       | 5    | HCG25320  | Pulse motor spacer                               |      |
|       | 6    | SGAB05012 | Flat head screw (cross recessed head, M5x12)     |      |
|       | 7    | HCG25071  | Pulse motor bracket                              |      |
|       | 8    | HCG25221  | Pulse motor stud                                 |      |
|       | 9    | SSAA05008 | Hexagon socket set screw (M5x8)                  |      |
|       | 10   | HCG25050  | Drive pulley                                     |      |
|       | 11   | MPB00720  | Bearing (BC6-16ZZ)                               |      |
|       | 12   | SCAB04010 | Hexagon socket head cap screw (M4x10)            |      |
|       | 13   | WPAD04000 | Plain washer (M4)                                |      |
|       | 14   | HCG25040  | Pulse motor base                                 |      |
|       | 15   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 16   | HCG25410  | Stay                                             |      |
|       | 17   | →22a      | X carriage base (by model)                       |      |
|       | 18   | HCG25212  | Base felt                                        |      |
|       | 19   | →22a      | Reinforcement plate (by model)                   |      |
|       | 20   | STAB04006 | Truss head screw (cross recessed, M4x6)          |      |
|       | 21   | →22a      | X carriage base cover (right) (by model)         |      |
|       | 22   | →22a      | X carriage base cover (left) (by model)          |      |
|       | 23   | →22a      | Connecting plate (right) (by model)              |      |
|       | 24   | →22a      | Connecting plate (middle) (by model)             |      |
|       | 25   | SCBD04006 | Hexagon socket head cap screw with flange (M4x6) |      |
|       | 26   | HCG25202  | Cover felt                                       |      |
|       | 27   | SCBA03006 | Hexagon socket head cap screw with flange (M3x6) |      |
|       | 28   | HCG25180  | Cover felt bracket                               |      |
|       | 29   | →22a      | Connecting plate (left) (by model)               |      |
|       | 30   | SCAD04012 | Hexagon socket head cap screw (M4x12)            |      |
|       | 31   | WSAD04000 | Spring lock washer (M4)                          |      |
|       | 32   | HCG25720  | Washer                                           |      |
|       | 33   | HCG25130  | Belt fixing plate C                              |      |
|       | 34   | HCG25270  | Belt holding plate A                             |      |
|       | 35   | HCG25280  | Belt holding plate B                             |      |
|       | 36   | HCG25110  | Belt fixing plate A                              |      |
|       | 37   | WPAA04000 | Plain washer (M4)                                |      |
|       | 38   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 39   | SCAA04045 | Hexagon socket head cap screw (M4x45)            |      |
|       | 40   | WPAD03000 | Plain washer (M3)                                |      |
|       | 41   | WSAD03000 | Spring lock washer (M3)                          |      |
|       | 42   | SCAD03012 | Hexagon socket head cap screw (M3x12)            |      |
|       | 43   | →22a      | Timing belt (by model)                           |      |
|       | 44   | HCG25120  | Belt fixing plate B                              |      |

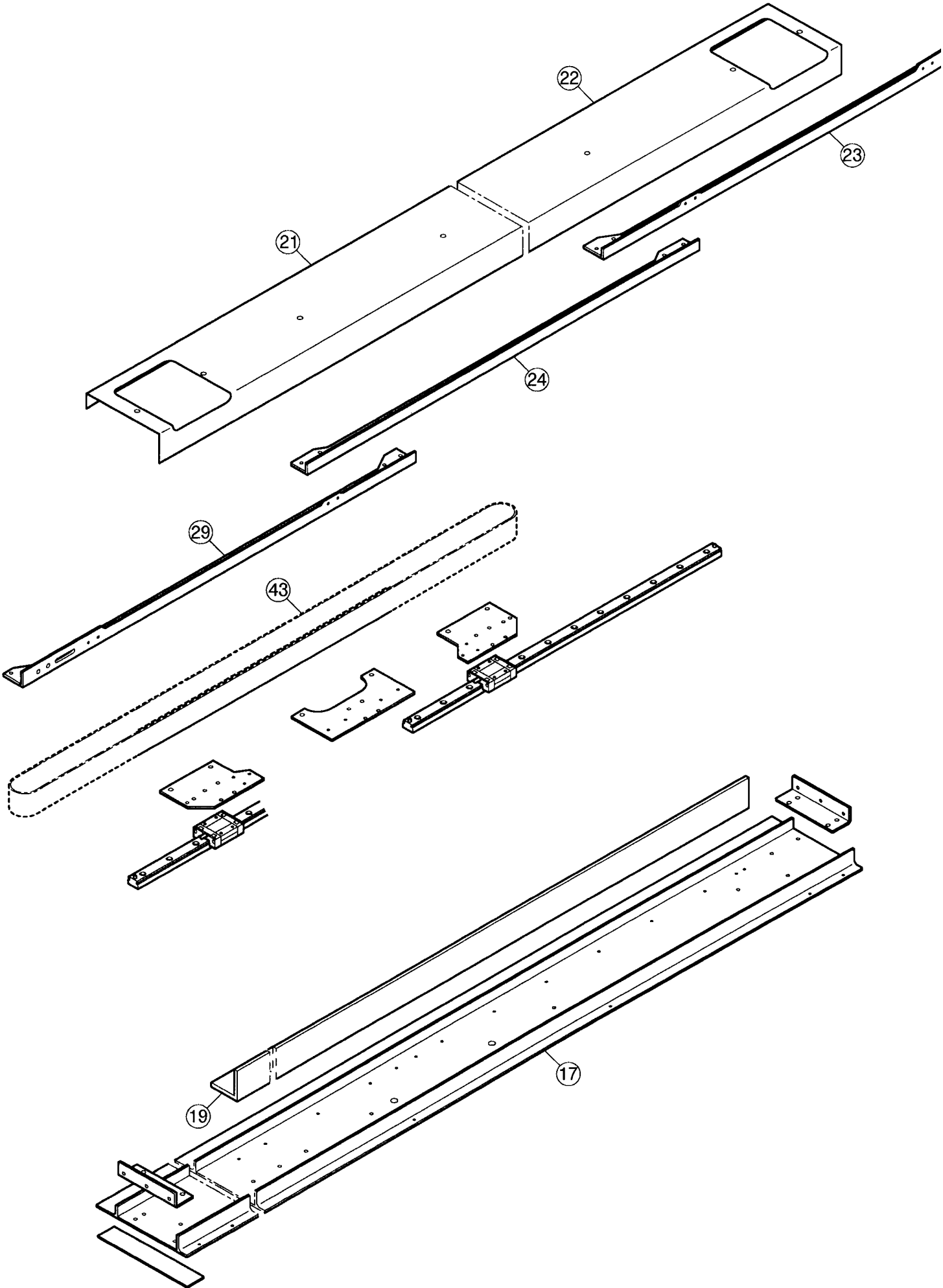


| Ass'y | El't | Parts No. | Parts Names                               | Note |
|-------|------|-----------|-------------------------------------------|------|
|       | 45   | HCG25140  | Limit switch dog                          |      |
|       | 46   | MPZ01960  | Spacer (BSB-4312)                         |      |
|       | 47   | SCAA03008 | Hexagon socket head cap screw (M3x8)      |      |
|       | 48   | WSAA03000 | Spring lock washer (M3)                   |      |
|       | 49   | WPAA03000 | Plain washer (M3)                         |      |
|       | 50   | HCG25510  | Connecting plate C                        |      |
|       | 51   | HCG25520  | Connecting plate                          |      |
|       | 51   | HCG25600  | Connecting plate (X1504B, X1204B, X1004B) |      |
|       | 52   | HCG25031  | LM guide                                  |      |
|       | 52   | HCG26221  | LM guide (X1504B, X1204B, X1004B)         |      |
|       | 53   | SCAA03006 | Hexagon socket head cap screw (M3x6)      |      |
|       | 54   | SPAC2C008 | Pan head screw (cross recessed, M2.3x8)   |      |
|       | 55   | HCG75040  | Limit switch                              |      |
|       | 56   | HCG25150  | Limit switch bracket                      |      |
|       | 57   | HCG25750  | Cover stud                                |      |
|       | 58   | SCAD04035 | Hexagon socket head cap screw (M4x35)     |      |
|       | 59   | HCG25730  | Tension roller                            |      |
|       | 60   | MPZ02210  | Spacer (CB-425)                           |      |
|       | 61   | MPR00460  | C-ring (C-12)                             |      |
|       | 62   | M0424160  | Spacer                                    |      |
|       | 63   | MPB00280  | Needle bearing (HK1210)                   |      |
|       | 64   | HCG25290  | Idler pulley                              |      |
|       | 65   | HCG25240  | Idler shaft                               |      |



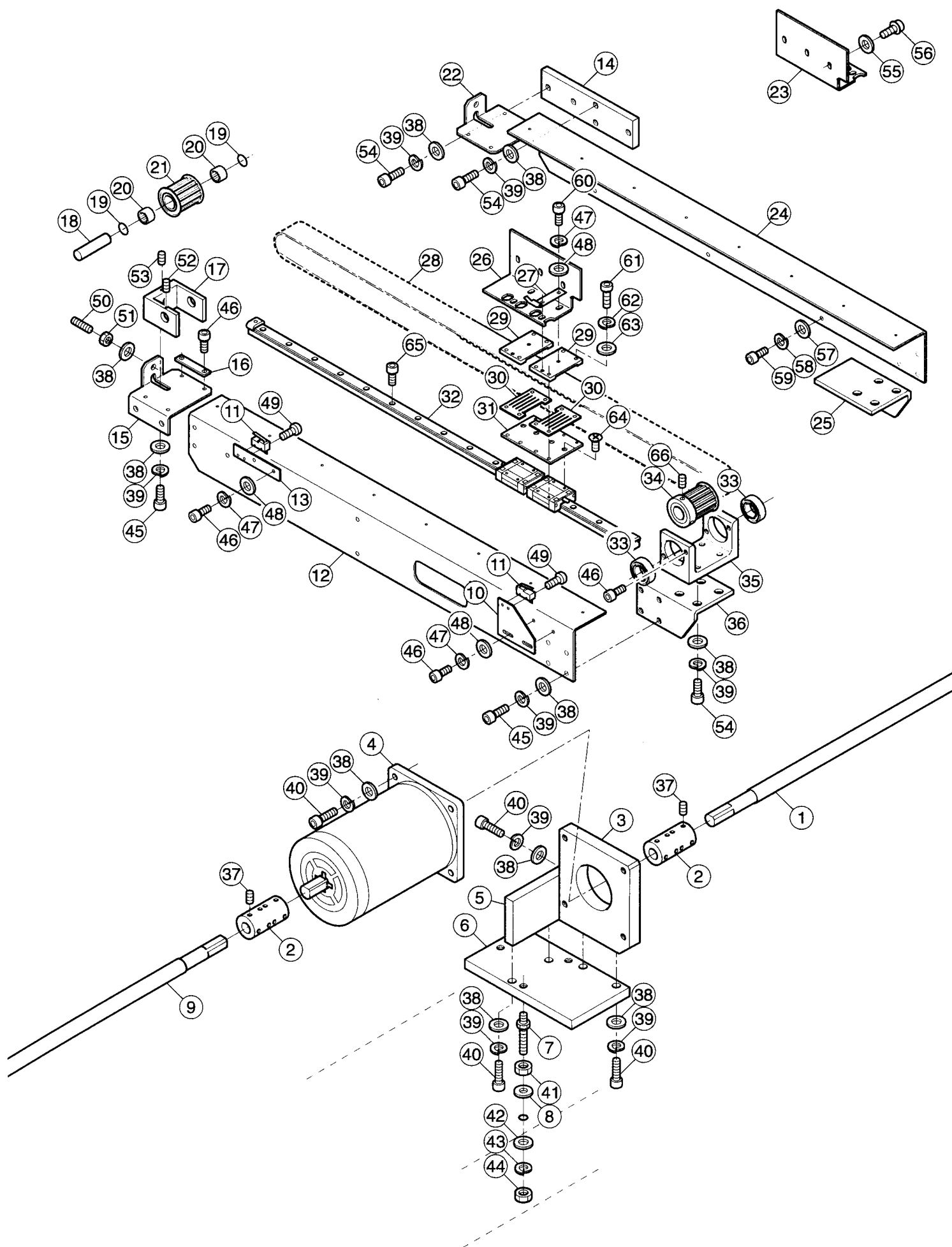


| Ass'y | El't | Parts No. | Parts Names                                       | Note |
|-------|------|-----------|---------------------------------------------------|------|
|       | 1    | →21a      | X carriage base cover (right) (by model)          |      |
|       | 2    | →21a      | X carriage base cover (left) (by model)           |      |
|       | 3    | STAB04006 | Truss head screw (cross recessed, M4x6)           |      |
|       | 6    | SCBD04006 | Hexagon socket head cap screw with flange (M4x6)  |      |
|       | 7    | WPAD04000 | Plain washer (M4)                                 |      |
|       | 8    | HCG25492  | Cover bracket (left)                              |      |
|       | 8    | HCG25791  | Cover bracket (left) (for 1504B type)             |      |
|       | 10   | SCBD04012 | Hexagon socket head cap screw with flange (M4x12) |      |
|       | 12   | HCG25740  | Plate                                             |      |
|       | 13   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8)  |      |
|       | 14   | →21a      | Reinforcement plate (by model)                    |      |
|       | 15   | →21a      | X carriage base (by model)                        |      |
|       | 16   | HCG25870  | X carriage base cover (front)                     |      |
|       | 16   | HCG26510  | X carriage base cover (front) (for 1504B type)    |      |
|       | 17   | HCG25880  | X carriage base cover (rear)                      |      |
|       | 18   | HCG25890  | Cover bracket (right)                             |      |
|       | 18   | HCG25781  | Cover bracket (right) (for 1504B type)            |      |
|       | 19   | HCG25820  | Stay Connecting plate                             |      |
|       | 19   | HCG25800  | Stay Connecting plate (for 1504B type)            |      |
|       | 20   | WPAD05000 | Plain washer (M5)                                 |      |
|       | 21   | WSAD05000 | Spring lock washer (M5)                           |      |
|       | 22   | SCAD05012 | Hexagon socket head cap screw (M5x12)             |      |
|       | 23   | HCG25810  | Reinforcement plate (for 1504B type)              |      |
|       | 24   | HCG25860  | Spacer (for 1504B type)                           |      |

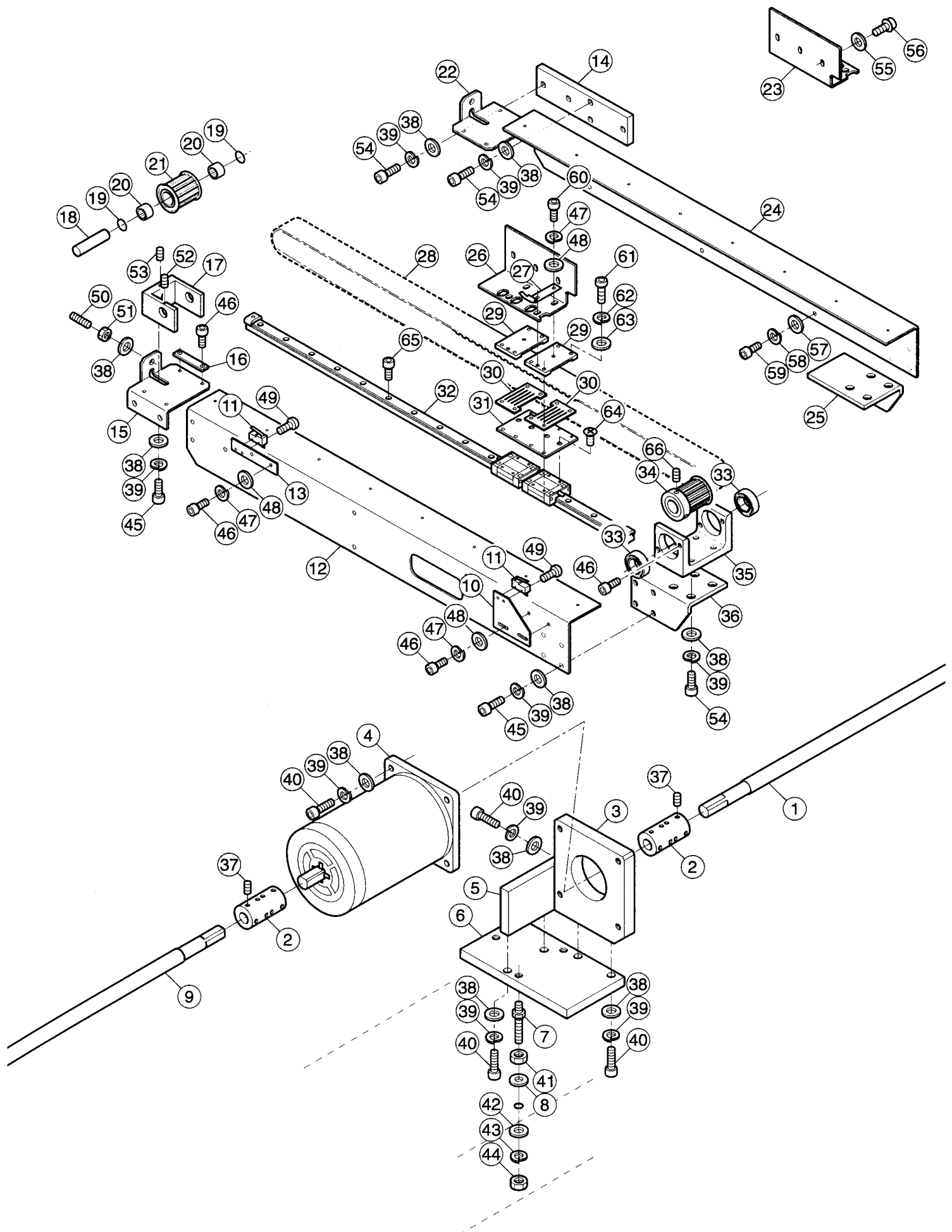


| 指図 / EIt<br>PARTS NAMES |             | 1 7<br>X carriage base | 1 9<br>Reinforcement<br>plate | 2 1<br>X carriage base<br>cover (right) | 2 2<br>X carriage base<br>cover (left) |
|-------------------------|-------------|------------------------|-------------------------------|-----------------------------------------|----------------------------------------|
| 機種<br>MODEL             | 1 5 0 6 B   | HCG25900               | HCG25910                      | HCG25920                                | HCG25930                               |
|                         | X 1 5 0 4 B | HCG25542               | HCG25711                      | HCG25581                                | HCG25591                               |
|                         | 1 5 0 4 B   | HCG25941               | HCG25951                      | HCG25840                                | HCG25850                               |
|                         | 1 5 0 2 B   | HCG25650               | HCG25690                      | HCG25660                                | -                                      |
|                         |             |                        |                               |                                         |                                        |

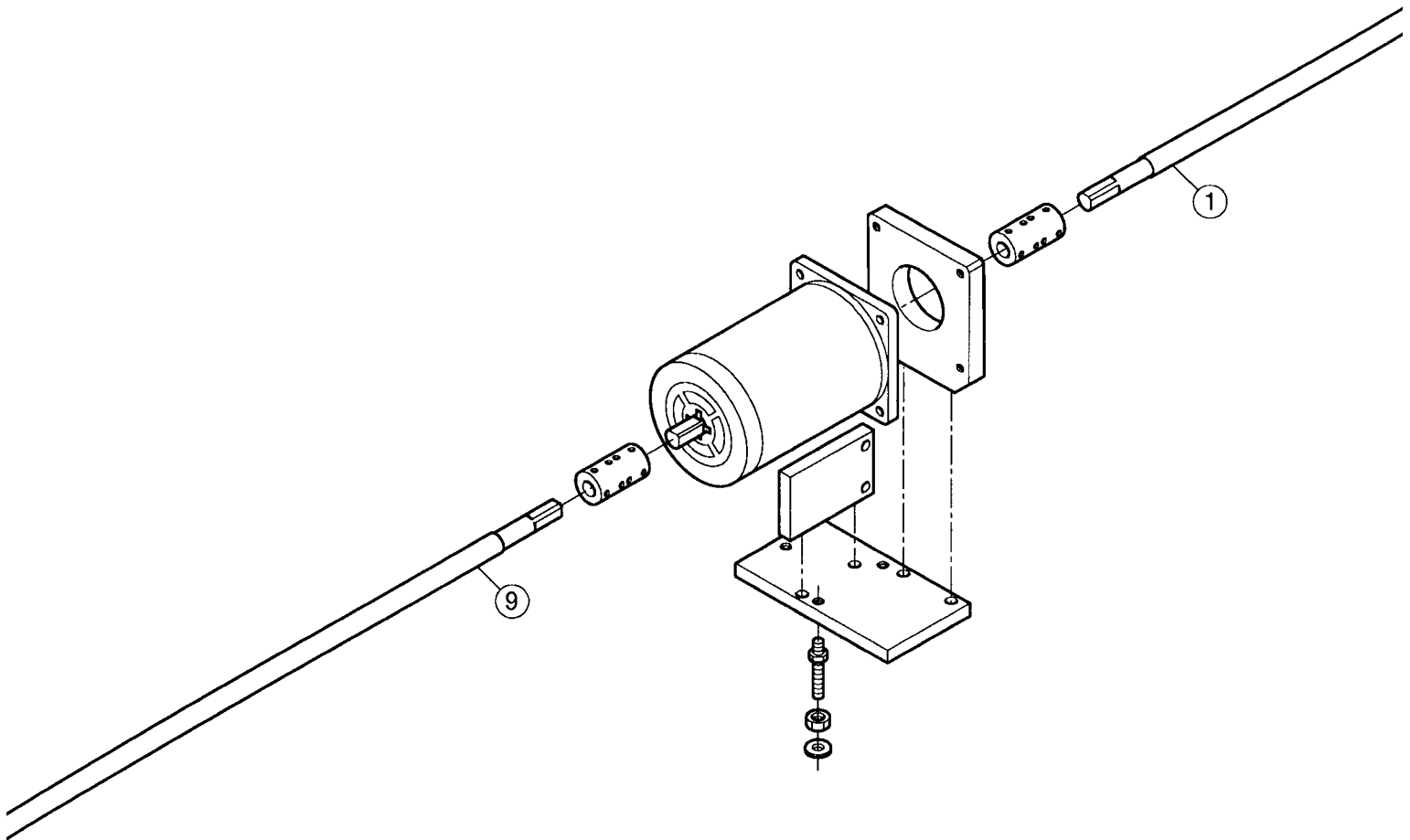
| 指図 / EIt<br>PARTS NAMES |             | 2 3<br>Connecting<br>plate (right) | 2 4<br>Connecting<br>plate (middle) | 2 9<br>Connecting<br>plate (left) | 4 3<br>Timing belt |
|-------------------------|-------------|------------------------------------|-------------------------------------|-----------------------------------|--------------------|
| 機種<br>MODEL             | 1 5 0 6 B   | HCG25422                           | HCG25530                            | HCG25432                          | MPV00520           |
|                         | X 1 5 0 4 B | HCG25551                           | HCG25561                            | HCG25571                          | MPV00520           |
|                         | 1 5 0 4 B   | HCG25970                           | -                                   | HCG25980                          | MPV00520           |
|                         | 1 5 0 2 B   | HCG25671                           | -                                   | HCG25681                          | MPV00520           |
|                         |             |                                    |                                     |                                   |                    |



| Ass'y | El't | Parts No. | Parts Names                               | Note |
|-------|------|-----------|-------------------------------------------|------|
|       | 1    | →24a      | Y carriage drive shaft (left) (by model)  |      |
|       | 2    | M0424093  | Coupling A                                |      |
|       | 3    | HCG26020  | Pulse motor bracket                       |      |
|       | 4    | EPM00420  | Pulse motor                               |      |
|       | 5    | HCG26030  | Stay                                      |      |
|       | 6    | HCG26010  | Base                                      |      |
|       | 7    | HCG04200  | Stud                                      |      |
|       | 8    | HCG04211  | Washer                                    |      |
|       | 9    | →24a      | Y carriage drive shaft (right) (by model) |      |
|       | 10   | HCG24382  | Limit switch bracket (rear)               |      |
|       | 11   | HCG75040  | Limit switch                              |      |
|       | 12   | HCG24411  | Rail bracket (right)                      |      |
|       | 13   | HCG24372  | Limit switch bracket (front)              |      |
|       | 14   | HCG24360  | Fixing plate                              |      |
|       | 15   | HCG24340  | Idler pulley bracket (right)              |      |
|       | 16   | HCG24100  | Guide plate                               |      |
|       | 17   | HCG24250  | Idler pulley support                      |      |
|       | 18   | M0424180  | Idler shaft                               |      |
|       | 19   | M0424160  | Spacer                                    |      |
|       | 20   | MPB00280  | Needle bearing (HK1210)                   |      |
|       | 21   | HCG24050  | Idler pulley                              |      |
|       | 22   | HCG24350  | Idler pulley bracket (left)               |      |
|       | 23   | HCG24402  | Stay (left)                               |      |
|       | 24   | HCG24421  | Rail bracket (left)                       |      |
|       | 25   | HCG24334  | Bracket (left)                            |      |
|       | 26   | HCG24392  | Stay (right)                              |      |
|       | 27   | HCG24161  | Limit switch dog                          |      |
|       | 28   | MPV00060  | Timing belt                               |      |
|       | 29   | HCG24131  | Belt fixing plate                         |      |
|       | 30   | HCG24230  | Belt holding plate A                      |      |
|       | 31   | HCG24430  | Belt holding plate C                      |      |
|       | 32   | HCG24031  | LM guide                                  |      |
|       | 33   | MPB00750  | Bearing (6903ZZNR)                        |      |
|       | 34   | HCG24040  | Drive pulley                              |      |
|       | 35   | HCG24312  | Drive shaft support                       |      |
|       | 36   | HCG24324  | Bracket (right)                           |      |

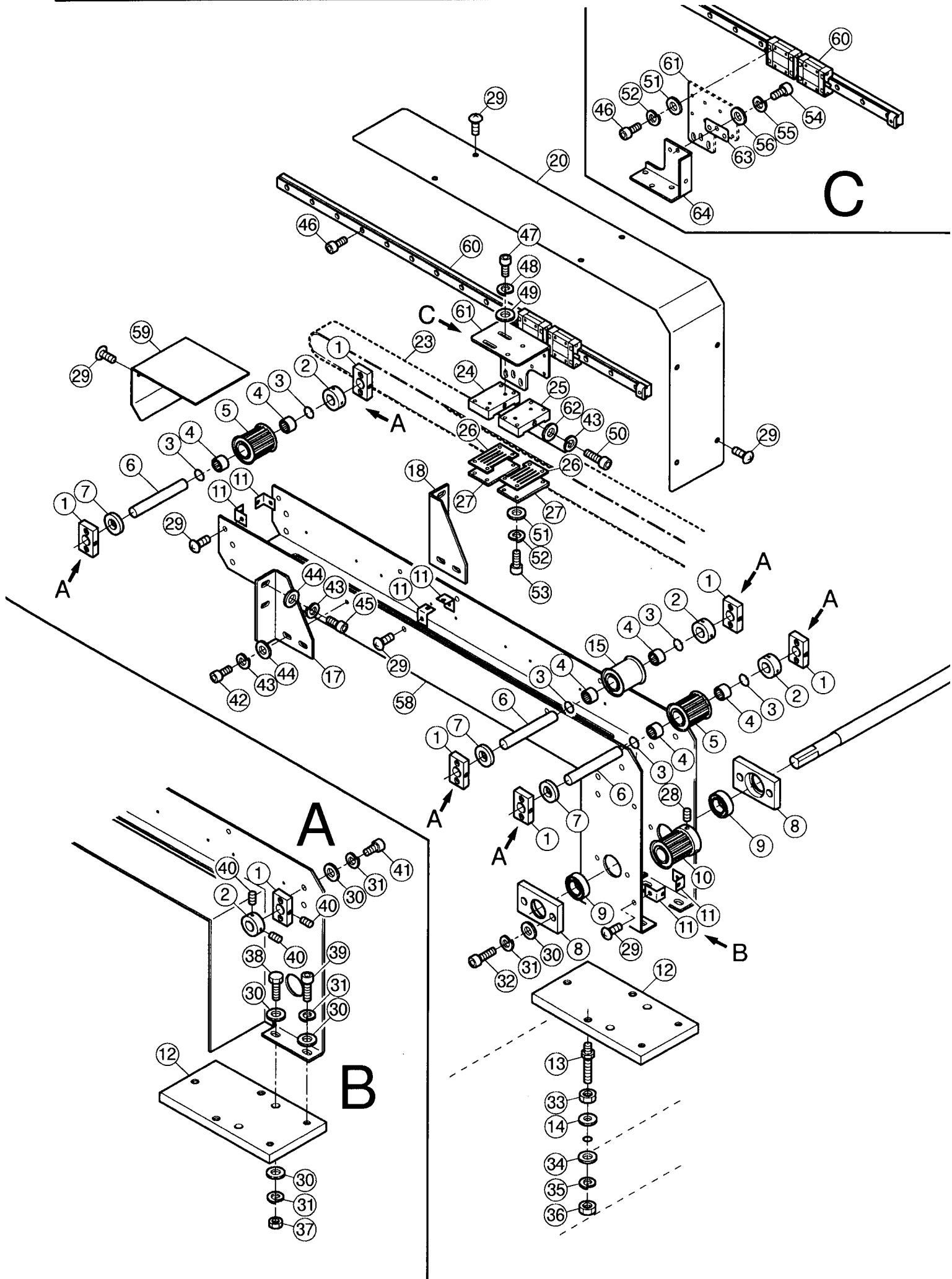


| Ass'y | El't | Parts No. | Parts Names                                       | Note |
|-------|------|-----------|---------------------------------------------------|------|
|       | 37   | SSAD05010 | Hexagon socket set screw (M5x10)                  |      |
|       | 38   | WPAA06000 | Plain washer (M6)                                 |      |
|       | 39   | WSAA06000 | Spring lock washer (M6)                           |      |
|       | 40   | SCAA06025 | Hexagon socket head cap screw (M6x25)             |      |
|       | 41   | NHAA08000 | Hexagon nut (M8)                                  |      |
|       | 42   | WPAD08000 | Plain washer (M8)                                 |      |
|       | 43   | WSAD08000 | Spring lock washer (M8)                           |      |
|       | 44   | NHAD08000 | Hexagon nut (M8)                                  |      |
|       | 45   | SCAA06012 | Hexagon socket head cap screw (M6x12)             |      |
|       | 46   | SCAA04008 | Hexagon socket head cap screw (M4x8)              |      |
|       | 47   | WSAA04000 | Spring lock washer (M4)                           |      |
|       | 48   | WPAA04000 | Plain washer (M4)                                 |      |
|       | 49   | SPAC2C008 | Pan head screw (cross recessed, M2.3x8)           |      |
|       | 50   | SSAA06035 | Hexagon socket set screw (M6x35)                  |      |
|       | 51   | NHAA06000 | Hexagon nut (M6)                                  |      |
|       | 52   | SSAA03006 | Hexagon socket set screw (M3x6)                   |      |
|       | 53   | SSAA04008 | Hexagon socket set screw (M4x8)                   |      |
|       | 54   | SCAA06015 | Hexagon socket head cap screw (M6x15)             |      |
|       | 55   | WPAD04000 | Plain washer (M4)                                 |      |
|       | 56   | SCBD04010 | Hexagon socket head cap screw with flange (M4x10) |      |
|       | 57   | WPAA05000 | Plain washer (M5)                                 |      |
|       | 58   | WSAA05000 | Spring lock washer (M5)                           |      |
|       | 59   | SCAA05010 | Hexagon socket head cap screw (M5x10)             |      |
|       | 60   | SCAA04010 | Hexagon socket head cap screw (M4x10)             |      |
|       | 61   | SCAA03015 | Hexagon socket head cap screw (M3x15)             |      |
|       | 62   | WSAA03000 | Spring lock washer (M3)                           |      |
|       | 63   | WPAA03000 | Plain washer (M3)                                 |      |
|       | 64   | HCA24180  | Flat head screw                                   |      |
|       | 65   | SCAA03010 | Hexagon socket head cap screw (M3x10)             |      |
|       | 66   | SSAA06010 | Hexagon socket set screw (M6x10)                  |      |

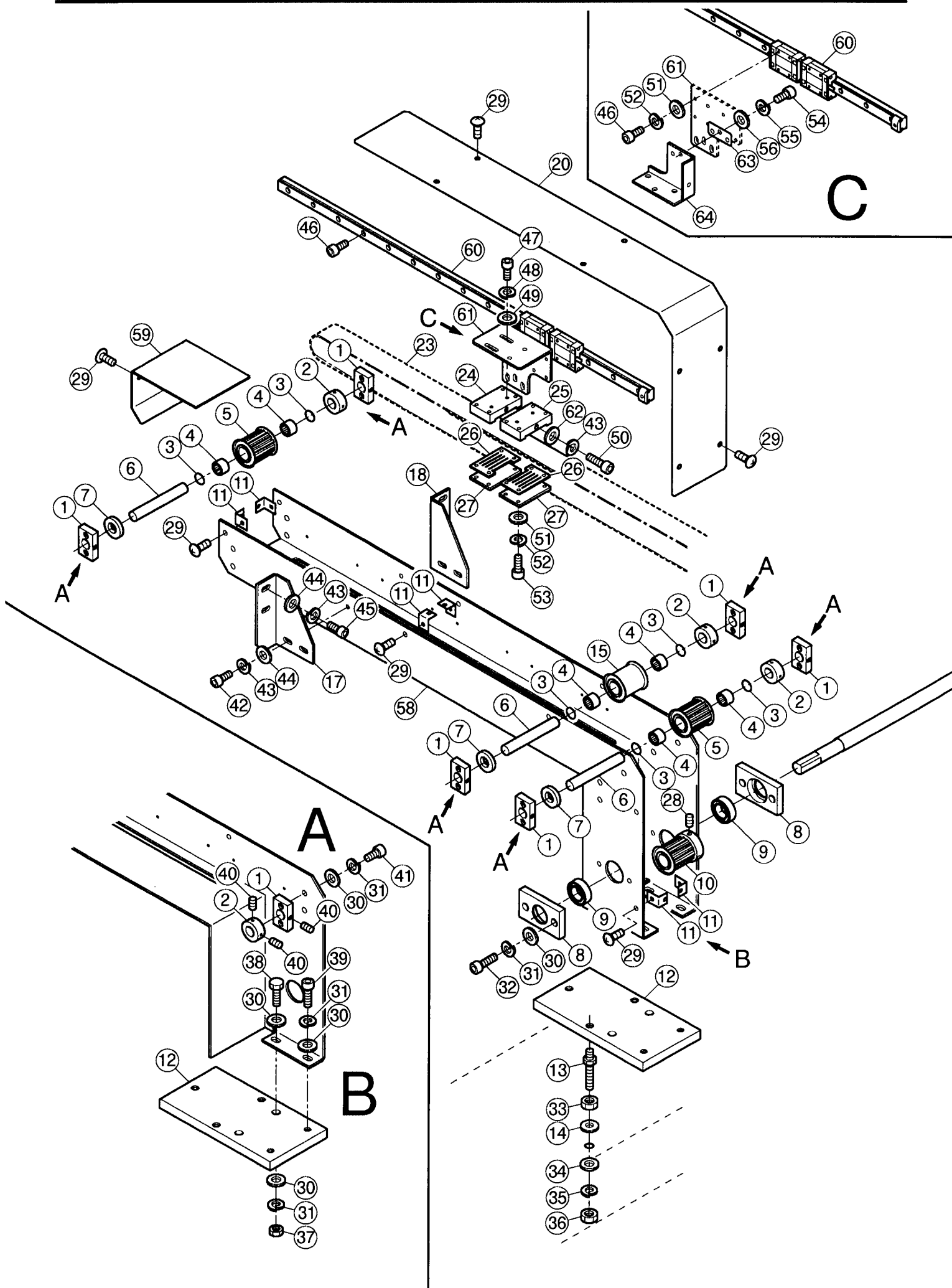




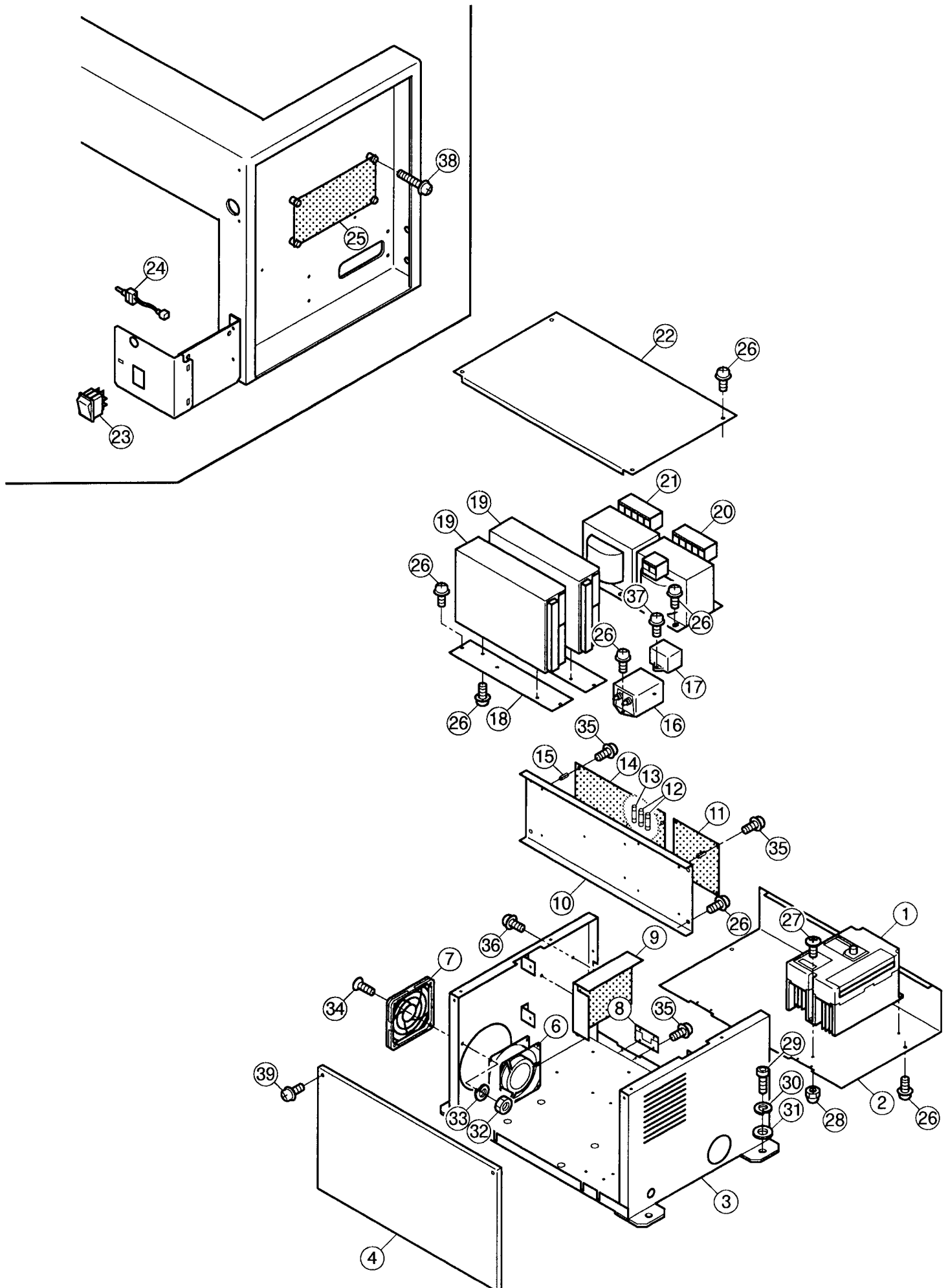
| 指図 / E'l't<br>PARTS NAMES |             | 1<br>Y carriage<br>drive shaft (left) | 9<br>Y carriage<br>drive shaft (right) |  |
|---------------------------|-------------|---------------------------------------|----------------------------------------|--|
| 機種<br>MODEL               | 1 5 0 6 B   | HCG26480                              | HCG26470                               |  |
|                           | X 1 5 0 4 B | HCG26400                              | HCG26390                               |  |
|                           | 1 5 0 4 B   | HCG26500                              | HCG26490                               |  |
|                           | 1 5 0 2 B   | HCG26430                              | HCG26420                               |  |
|                           |             |                                       |                                        |  |



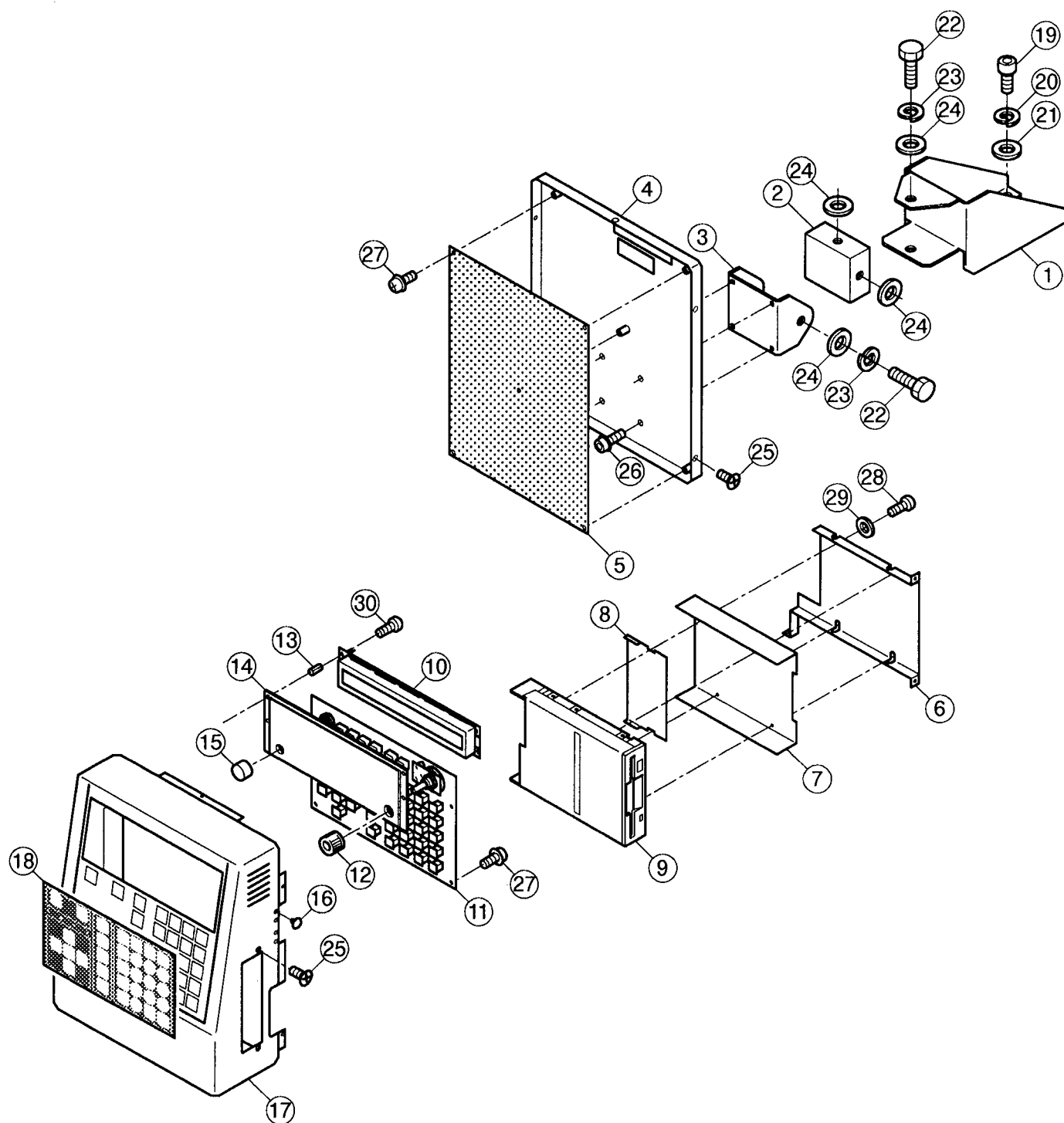
| Ass'y | El't | Parts No. | Parts Names                             | Note |
|-------|------|-----------|-----------------------------------------|------|
|       | 1    | HCG26280  | Idler shaft support                     |      |
|       | 2    | HCG26300  | Collar A                                |      |
|       | 3    | M0424160  | Spacer                                  |      |
|       | 4    | MPB00280  | Needle bearing (HK1210)                 |      |
|       | 5    | HCG24050  | Idler pulley                            |      |
|       | 6    | HCG26290  | Idler shaft                             |      |
|       | 7    | HCG26310  | Collar B                                |      |
|       | 8    | HCG26271  | Drive shaft support                     |      |
|       | 9    | MPB00270  | Bearing (6903ZZ)                        |      |
|       | 10   | HCG24040  | Drive pulley                            |      |
|       | 11   | HCG26350  | Cover bracket                           |      |
|       | 12   | HCG26200  | Arm base                                |      |
|       | 13   | HCG04200  | Stud                                    |      |
|       | 14   | HCG04211  | Washer                                  |      |
|       | 15   | HCG26320  | Guide pulley                            |      |
|       | 17   | HCG26331  | Arm fixing plate (right)                |      |
|       | 18   | HCG26341  | Arm fixing plate (left)                 |      |
|       | 20   | HCG26371  | Cover B                                 |      |
|       | 23   | MPV00060  | Timing belt                             |      |
|       | 24   | HCG26240  | Belt holding block A                    |      |
|       | 25   | HCG26250  | Belt holding block B                    |      |
|       | 26   | HCG24230  | Belt holding plate A                    |      |
|       | 27   | HCG26260  | Belt holding plate                      |      |
|       | 28   | SSAA06010 | Hexagon socket set screw (M6x10)        |      |
|       | 29   | STAB04006 | Truss head screw (cross recessed, M4x6) |      |
|       | 30   | WPAA06000 | Plain washer (M6)                       |      |
|       | 31   | WSAA06000 | Spring lock washer (M6)                 |      |
|       | 32   | SCAA06018 | Hexagon socket head cap screw (M6x18)   |      |
|       | 33   | NHAA08000 | Hexagon nut (M8)                        |      |
|       | 34   | WPAD08000 | Plain washer (M8)                       |      |
|       | 35   | WSAD08000 | Spring lock washer (M8)                 |      |
|       | 36   | NHAD08000 | Hexagon nut (M8)                        |      |
|       | 37   | NHAA06000 | Hexagon nut (M6)                        |      |
|       | 38   | SHAA06025 | Hexagon head bolt (M6x25)               |      |
|       | 39   | SCAA06020 | Hexagon socket head cap screw (M6x20)   |      |
|       | 40   | SSAA05006 | Hexagon socket set screw (M5x6)         |      |
|       | 41   | SCAA06012 | Hexagon socket head cap screw (M6x12)   |      |



| Ass'y | El't | Parts No. | Parts Names                           | Note |
|-------|------|-----------|---------------------------------------|------|
|       | 42   | SCAA05010 | Hexagon socket head cap screw (M5x10) |      |
|       | 43   | WSAA05000 | Spring lock washer (M5)               |      |
|       | 44   | WPAA05000 | Plain washer (M5)                     |      |
|       | 45   | SCAA05012 | Hexagon socket head cap screw (M5x12) |      |
|       | 46   | SCAA03008 | Hexagon socket head cap screw (M3x8)  |      |
|       | 47   | SCAA04005 | Hexagon socket head cap screw (M4x5)  |      |
|       | 48   | WSAA04000 | Spring lock washer (M4)               |      |
|       | 49   | WPAA04000 | Plain washer (M4)                     |      |
|       | 50   | SCAA05050 | Hexagon socket head cap screw (M5x50) |      |
|       | 51   | WPAA03000 | Plain washer (M3)                     |      |
|       | 52   | WSAA03000 | Spring lock washer (M3)               |      |
|       | 53   | SCAA03015 | Hexagon socket head cap screw (M3x15) |      |
|       | 54   | SCAD05010 | Hexagon socket head cap screw (M5x10) |      |
|       | 55   | WSAD05000 | Spring lock washer (M5)               |      |
|       | 56   | WPAD05000 | Plain washer (M5)                     |      |
|       | 58   | HCG26440  | Carriage arm                          |      |
|       | 59   | HCG26460  | Cover A                               |      |
|       | 60   | HCG24031  | LM guide                              |      |
|       | 61   | HCG26450  | Stay                                  |      |
|       | 62   | WPBA05000 | Plain washer (M5)                     |      |
|       | 63   | HCG25830  | Washer                                |      |
|       | 64   | HCG25820  | Stay Connecting plate                 |      |

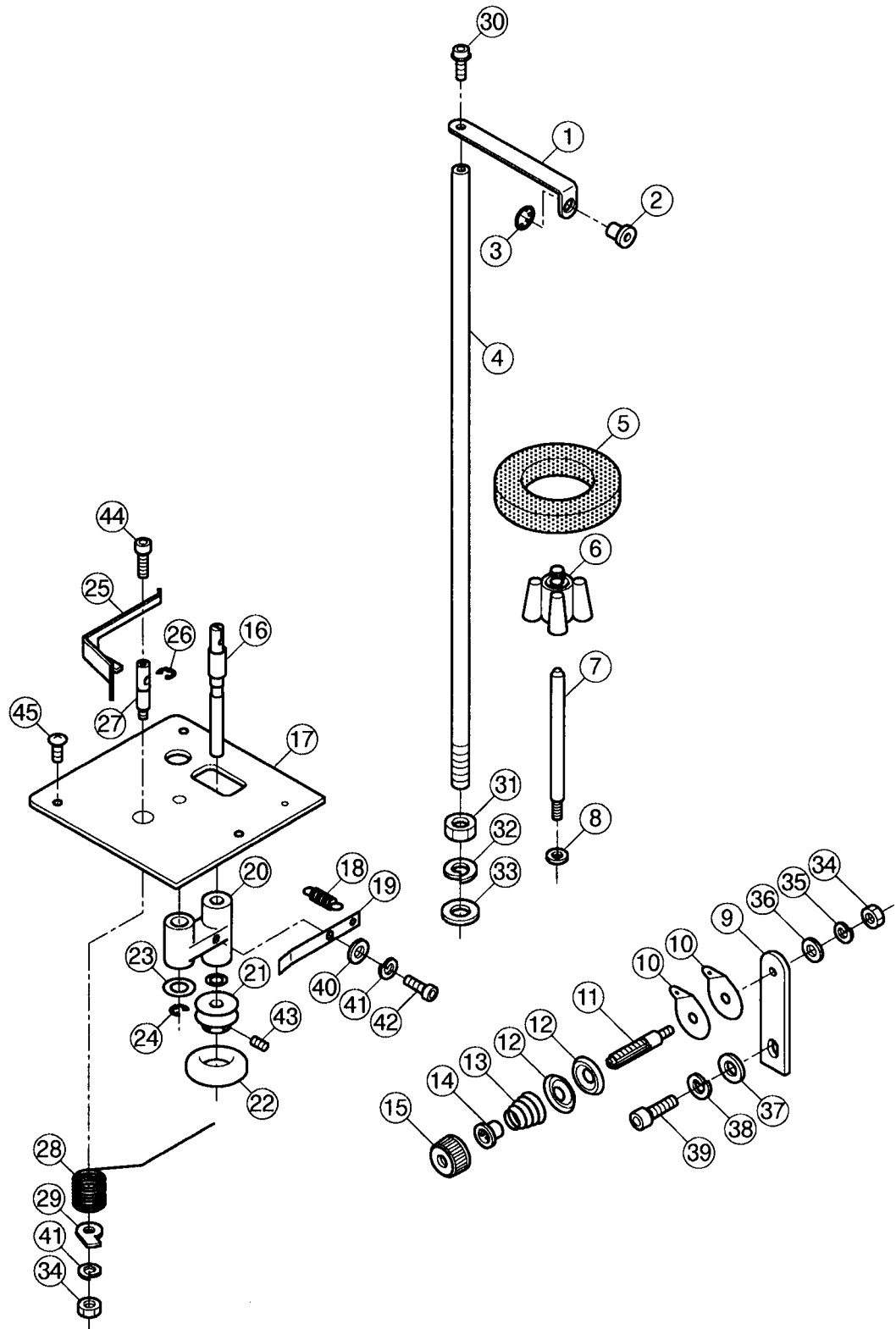


| Ass'y | El't | Parts No. | Parts Names                                  | Note |
|-------|------|-----------|----------------------------------------------|------|
|       | 1    | EPM00430  | Inverter                                     |      |
|       | 2    | HCG27132  | Rear cover                                   |      |
|       | 3    | HCG27113  | Main unit box                                |      |
|       | 4    | HCG27120  | Front cover                                  |      |
|       | 6    | EPK00710  | Fan                                          |      |
|       | 7    | EPK00300  | Filter                                       |      |
|       | 8    | MPZ00420  | Hinge                                        |      |
|       | 9    | EPK00770  | Switching power supply                       |      |
|       | 10   | HCG27151  | Circuit board mount                          |      |
|       | 11   | HCG83092  | Thread catch circuit board ass'y             |      |
|       | 12   | EPF00330  | Fuse (2A)                                    |      |
|       | 13   | EPF00340  | Fuse (3A)                                    |      |
|       | 14   | HCG83072  | Power supply circuit board ass'y             |      |
|       | 15   | MPZ00470  | Spacer (BSB-312)                             |      |
|       | 16   | EPK00470  | Noise filter                                 |      |
|       | 17   | EPC00940  | Surge protector                              |      |
|       | 18   | HCG27030  | Driver mount                                 |      |
|       | 19   | EPM00400  | Pulse motor driver                           |      |
|       | 20   | EPK00480  | Transformer                                  |      |
|       | 21   | HCG75100  | Transformer                                  |      |
|       | 22   | HCG27140  | Top cover                                    |      |
|       | 23   | EPS00810  | Power switch                                 |      |
|       | 24   | M0435150  | Brake switch                                 |      |
|       | 25   | HCG83080  | Connector circuit board ass'y                |      |
|       | 26   | SPDB04008 | Pan head screw (cross recessed, M4x8)        |      |
|       | 27   | SBAB04008 | Binding head screw (M4x8)                    |      |
|       | 28   | NDAD04000 | Domed cap nut (M4)                           |      |
|       | 29   | SCAD06015 | Hexagon socket head cap screw (M6x15)        |      |
|       | 30   | WSAD06000 | Spring lock washer (M6)                      |      |
|       | 31   | WPAD06000 | Plain washer (M6)                            |      |
|       | 32   | NHAD04000 | Hexagon nut (M4)                             |      |
|       | 33   | WSAD04000 | Spring lock washer (M4)                      |      |
|       | 34   | SGAD04020 | Flat head screw (cross recessed head, M4x20) |      |
|       | 35   | SPDD03006 | Pan head screw (cross recessed, M3x6)        |      |
|       | 36   | SPDD03008 | Pan head screw (cross recessed, M3x8)        |      |
|       | 37   | SPDD04008 | Pan head screw (cross recessed, M4x8)        |      |
|       | 38   | SPDD03015 | Pan head screw (cross recessed, M3x15)       |      |
|       | 39   | SPDB04016 | Pan head screw (cross recessed, M4x16)       |      |

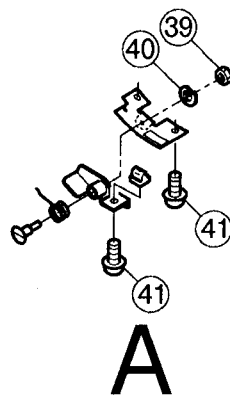
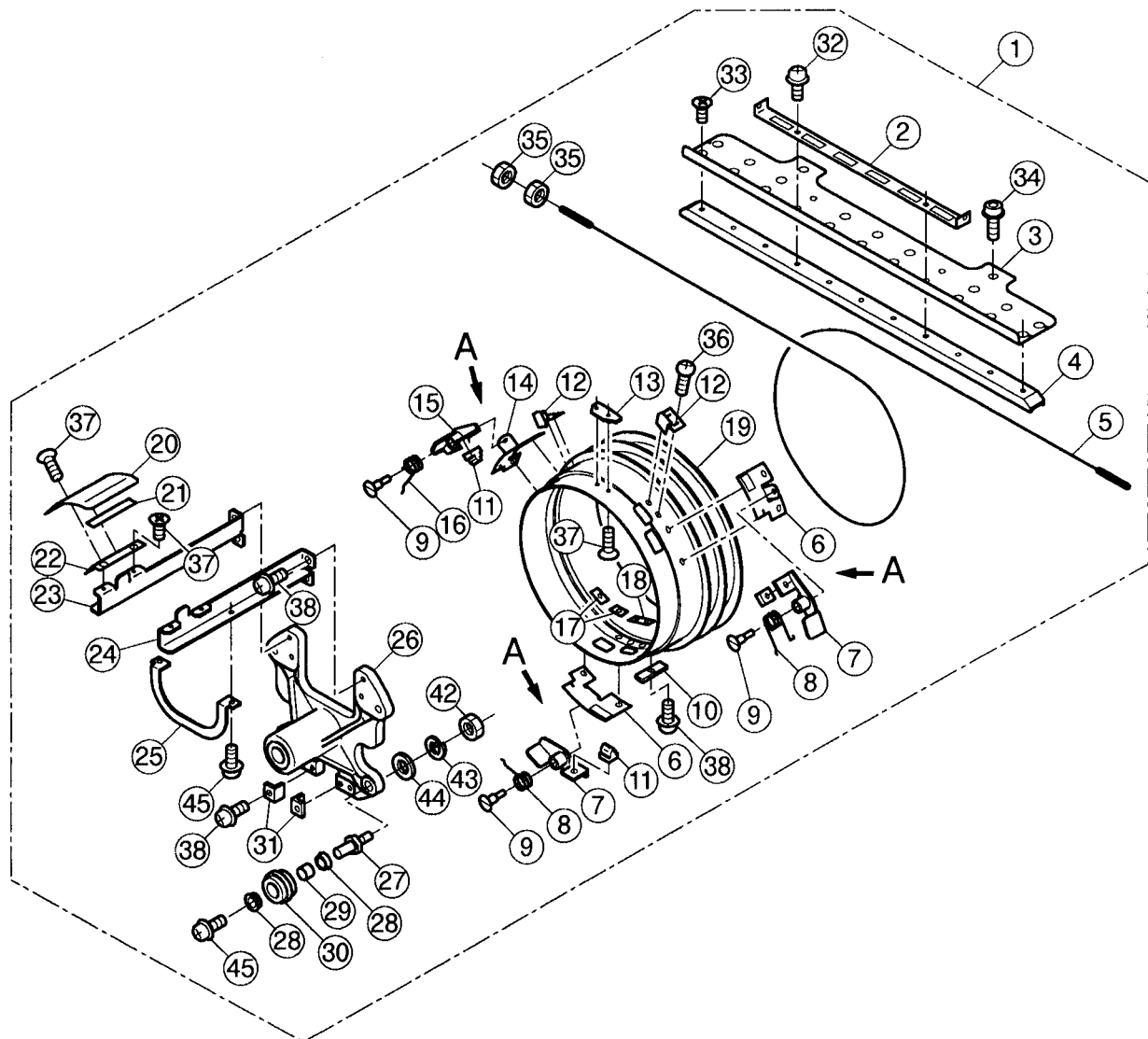




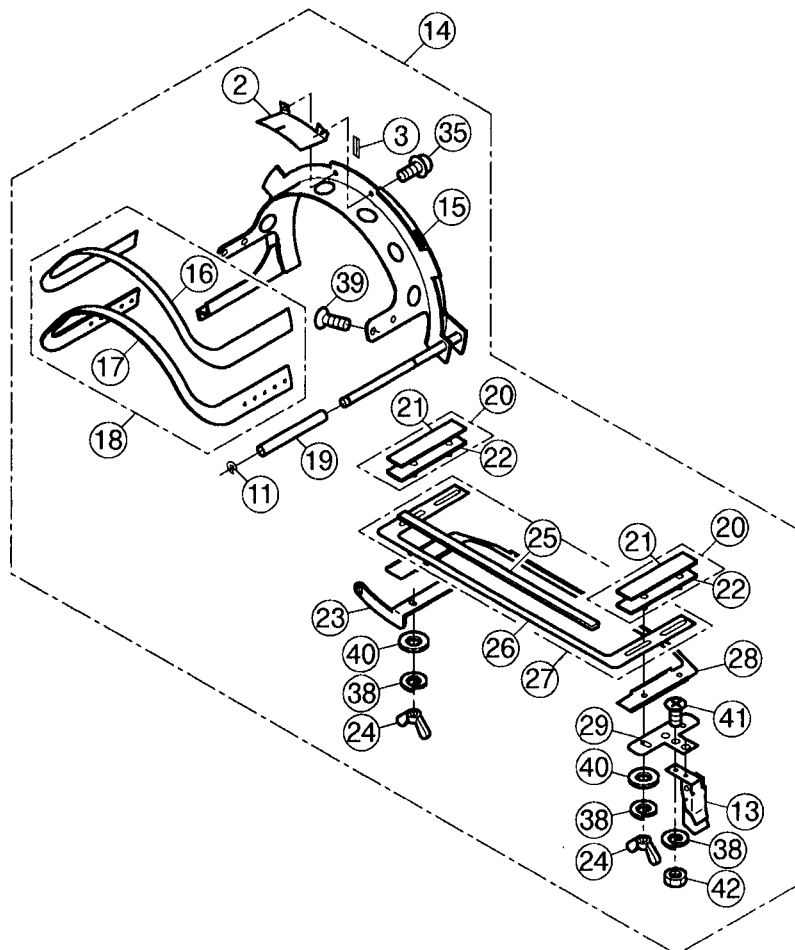
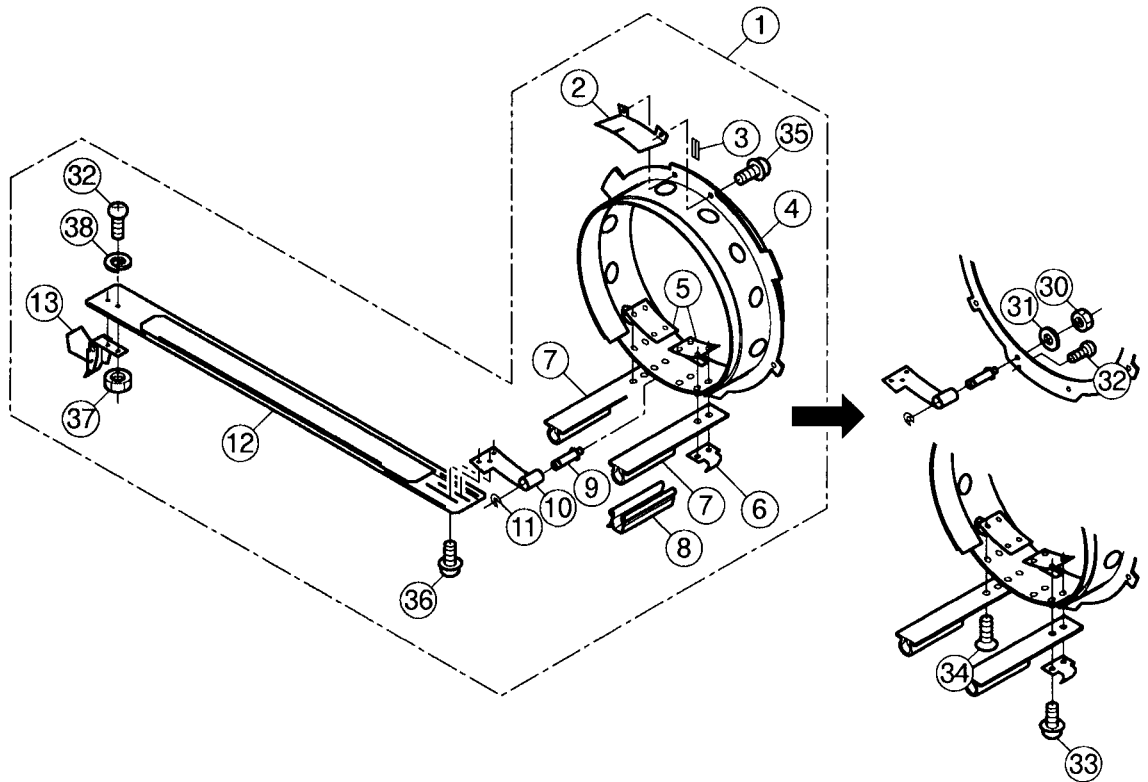
| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCG29164  | Control box base E                               |      |
|       | 2    | HCG29040  | Control box base B                               |      |
|       | 3    | HCG29031  | Control box base A                               |      |
|       | 4    | HCG29142  | Rear panel                                       |      |
|       | 5    | HCG83054  | CPU board ass'y                                  |      |
|       | 6    | HCG29150  | FDD bracket                                      |      |
|       | 7    | M0429360  | Insulation plate                                 |      |
|       | 8    | HMF29111  | Insulation plate B                               |      |
|       | 9    | EPZ00281  | Disk drive unit (3 mode type)                    |      |
|       | 10   | SF429092  | Liquid crystal display                           |      |
|       | 11   | HCG83060  | Switch board ass'y                               |      |
|       | 12   | EPS00350  | Volume knob                                      |      |
|       | 13   | MPZ01980  | Spacer (AS-312)                                  |      |
|       | 14   | HCG29112  | Display panel                                    |      |
|       | 15   | EPS00640  | Switch top                                       |      |
|       | 16   | FRA44630  | Cushion                                          |      |
|       | 17   | HCG29132  | Chassis                                          |      |
|       | 18   | HCG51031  | Switch sheet C                                   |      |
|       | 19   | SCAD06015 | Hexagon socket head cap screw (M6x15)            |      |
|       | 20   | WSAD06000 | Spring lock washer (M6)                          |      |
|       | 21   | WPAD06000 | Plain washer (M6)                                |      |
|       | 22   | SHAD08020 | Hexagon head bolt (M8x20)                        |      |
|       | 23   | WSAD08000 | Spring lock washer (M8)                          |      |
|       | 24   | WPAD08000 | Plain washer (M8)                                |      |
|       | 25   | SGAB03006 | Flat head screw (cross recessed head, M3x6)      |      |
|       | 26   | SCBD04006 | Hexagon socket head cap screw with flange (M4x6) |      |
|       | 27   | SPDD03006 | Pan head screw (cross recessed, M3x6)            |      |
|       | 28   | SPAH03004 | Pan head screw (cross recessed, M3x4)            |      |
|       | 29   | WPBD03000 | Plain washer (M3)                                |      |
|       | 30   | SPAD03006 | Pan head screw (cross recessed, M3x6)            |      |



| Ass'y | El't | Parts No. | Parts Names                                      | Note |
|-------|------|-----------|--------------------------------------------------|------|
|       | 1    | HCG60140  | Thread guide plate                               |      |
|       | 2    | M0445080  | Eyelet                                           |      |
|       | 3    | MPR00110  | SE-ring (SE-7)                                   |      |
|       | 4    | HCG60130  | Thread guide pillar                              |      |
|       | 5    | HMF20571  | Thread stand felt (80)                           |      |
|       | 6    | MPZ00340  | Plastic spring                                   |      |
|       | 7    | M0420032  | Thread stand pin                                 |      |
|       | 8    | M0420890  | Washer                                           |      |
|       | 9    | HCG60121  | Thread guide unit stay                           |      |
|       | 10   | MPZ00200  | Thread guide plate                               |      |
|       | 11   | M0418211  | Tension shaft                                    |      |
|       | 12   | MPZ00221  | Disc                                             |      |
|       | 13   | MPZ02220  | Spring                                           |      |
|       | 14   | MPZ00280  | Spring guide                                     |      |
|       | 15   | MPZ00960  | Tension nut                                      |      |
|       | 16   | HCG60032  | Shaft                                            |      |
|       | 17   | HCG60012  | Base                                             |      |
|       | 18   | HCG60060  | Tension coil spring                              |      |
|       | 19   | HCG60052  | Leaf spring                                      |      |
|       | 20   | HCG60020  | Lever                                            |      |
|       | 21   | HCG60040  | Trailing wheel                                   |      |
|       | 22   | MPZ01910  | Rubber ring                                      |      |
|       | 23   | MPB00120  | Plastic thrust washer (TW0815)                   |      |
|       | 24   | MPR00470  | E-ring (E-6)                                     |      |
|       | 25   | HCG60090  | Guide                                            |      |
|       | 26   | MPR00080  | E-ring (E-5)                                     |      |
|       | 27   | HCG60071  | Lever shaft                                      |      |
|       | 28   | HCG60080  | Torsion coil spring                              |      |
|       | 29   | HCG60153  | Lever                                            |      |
|       | 30   | SCBD04008 | Hexagon socket head cap screw with flange (M4x8) |      |
|       | 31   | NHAD08000 | Hexagon nut (M8)                                 |      |
|       | 32   | WSAD08000 | Spring lock washer (M8)                          |      |
|       | 33   | WPAD08000 | Plain washer (M8)                                |      |
|       | 34   | NHAD04000 | Hexagon nut (M4)                                 |      |
|       | 35   | WSAD04000 | Spring lock washer (M4)                          |      |
|       | 36   | WPAD04000 | Plain washer (M4)                                |      |
|       | 37   | WPAA05000 | Plain washer (M5)                                |      |
|       | 38   | WSAA05000 | Spring lock washer (M5)                          |      |
|       | 39   | SCAA05010 | Hexagon socket head cap screw (M5x10)            |      |
|       | 40   | WPAA04000 | Plain washer (M4)                                |      |
|       | 41   | WSAA04000 | Spring lock washer (M4)                          |      |
|       | 42   | SCAA04008 | Hexagon socket head cap screw (M4x8)             |      |
|       | 43   | SSAA03004 | Hexagon socket set screw (M3x4)                  |      |
|       | 44   | SCAD03012 | Hexagon socket head cap screw (M3x12)            |      |
|       | 45   | STAB04006 | Truss head screw (cross recessed, M4x6)          |      |



| Ass'y | El't | Parts No. | Parts Names                                 | Note |
|-------|------|-----------|---------------------------------------------|------|
|       | 1    | FRA43501  | Drive frame ass'y A (red)                   |      |
|       | 1    | FRA43881  | Drive frame ass'y B (blue)                  |      |
|       | 2    | FRA43790  | Wire fixing plate                           |      |
|       | 3    | FRA43830  | Rail bracket                                |      |
|       | 4    | FRA43820  | Rail                                        |      |
|       | 5    | FRA43780  | Wire                                        |      |
|       | 6    | FRA43590  | Lever bracket (right)                       |      |
|       | 7    | FRA43560  | Hold lever ass'y (right)                    |      |
|       | 8    | FRA43620  | Torsion coil spring (right)                 |      |
|       | 9    | FRA43610  | Support pin                                 |      |
|       | 10   | FRA43800  | Wire keeper                                 |      |
|       | 11   | FRA43601  | Lock pin                                    |      |
|       | 12   | FRA43550  | Spring                                      |      |
|       | 13   | FRA43540  | Center guide                                |      |
|       | 14   | FRA43650  | Lever bracket (left)                        |      |
|       | 15   | FRA43630  | Hold lever ass'y (left)                     |      |
|       | 16   | FRA43660  | Torsion coil spring (left)                  |      |
|       | 17   | FRA43670  | Plate nut (M4)                              |      |
|       | 18   | FRA43680  | Plate nut (M3)                              |      |
|       | 19   | FRA43841  | rotary cylinder                             |      |
|       | 20   | FRA43700  | Guide                                       |      |
|       | 21   | FRA43740  | Protect sheet                               |      |
|       | 22   | FRA43730  | Guide bracket                               |      |
|       | 23   | FRA43721  | Guide support (left)                        |      |
|       | 24   | FRA43711  | Guide support (right)                       |      |
|       | 25   | FRA43690  | Reinforcement plate                         |      |
|       | 26   | FRA43971  | Base ass'y                                  |      |
|       | 27   | FRA43530  | Guide roller pin                            |      |
|       | 28   | FRA43520  | Bearing                                     |      |
|       | 29   | FRA43750  | Guide roller spacer                         |      |
|       | 30   | FRA43510  | Guide roller                                |      |
|       | 31   | FRA43810  | Stopper                                     |      |
|       | 32   | SPDD04012 | Pan head screw (cross recessed, M4x12)      |      |
|       | 33   | SGAD04008 | Flat head screw (cross recessed head, M4x8) |      |
|       | 34   | SCAD04008 | Hexagon socket head cap screw (M4x8)        |      |
|       | 35   | NHAD03000 | Hexagon nut (M3)                            |      |
|       | 36   | SPAD03005 | Pan head screw (cross recessed, M3x5)       |      |
|       | 37   | SGAD03004 | Flat head screw (cross recessed head, M3x4) |      |
|       | 38   | SPDD04010 | Pan head screw (cross recessed, M4x10)      |      |
|       | 39   | NHCD04000 | Hexagon nut (M4)                            |      |
|       | 40   | WSAD04000 | Spring lock washer (M4)                     |      |
|       | 41   | SPDD04008 | Pan head screw (cross recessed, M4x8)       |      |
|       | 42   | NHAD05000 | Hexagon nut (M5)                            |      |
|       | 43   | WSAD05000 | Spring lock washer (M5)                     |      |
|       | 44   | WPAD05000 | Plain washer (M5)                           |      |
|       | 45   | SPDD04006 | Pan head screw (cross recessed, M4x6)       |      |



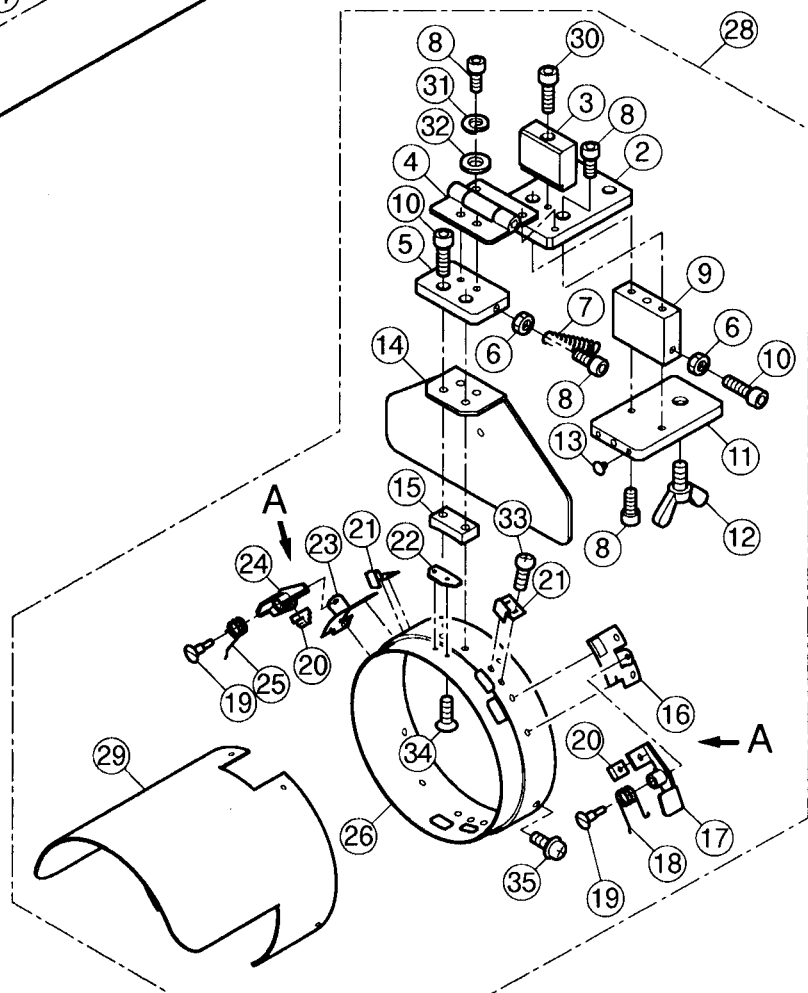
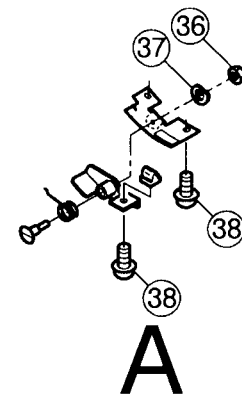
# CAP FRAME (HOLD FRAME)

CAa1131

29b-1

| Ass'y | El't | Parts No. | Parts Names                                 | Note |
|-------|------|-----------|---------------------------------------------|------|
|       | 1    | FRA44001  | Cap hold frame ass'y (wide type)            |      |
|       | 2    | FRA44210  | Positioning plate                           |      |
|       | 3    | FRA44180  | Cap marker                                  |      |
|       | 4    | FRA44101  | Cap hold frame (wide type)                  |      |
|       | 5    | FRA44050  | Cap holder bracket                          |      |
|       | 6    | FRA44031  | Hook                                        |      |
|       | 7    | FRA44201  | Cap holder A                                |      |
|       | 8    | FRA44090  | Clip                                        |      |
|       | 9    | FRA44012  | Guide pin                                   |      |
|       | 10   | FRA44022  | Grip bracket                                |      |
|       | 11   | FRA44170  | E-ring                                      |      |
|       | 12   | FRA44041  | Cap grip                                    |      |
|       | 13   | FRA44160  | Latch                                       |      |
|       | 14   | FRA46011  | Cap hold frame ass'y (semi wide type)       |      |
|       | 15   | FRA46025  | Cap hold frame (semi wide type)             |      |
|       | 16   | FRA46221  | Clamp support cushion                       |      |
|       | 17   | FRA46121  | Clamp support                               |      |
|       | 18   | FRA46111  | Clamp support ass'y                         |      |
|       | 19   | FRA46141  | Spacer                                      |      |
|       | 20   | FRA46171  | Side holder ass'y                           |      |
|       | 21   | FRA46231  | Side holder cushion                         |      |
|       | 22   | FRA46181  | Side holder                                 |      |
|       | 23   | FRA46082  | Bracket                                     |      |
|       | 24   | NWBB03000 | Wing nut (M3)                               |      |
|       | 25   | FRA46241  | Clamp cushion                               |      |
|       | 26   | FRA46201  | Clamp A                                     |      |
|       | 27   | FRA46191  | Clamp A ass'y                               |      |
|       | 28   | FRA46211  | Clamp B                                     |      |
|       | 29   | FRA46151  | Latch bracket                               |      |
|       | 30   | NHAD04000 | Hexagon nut (M4)                            |      |
|       | 31   | WPAD04000 | Plain washer (M4)                           |      |
|       | 32   | SPAD03005 | Pan head screw (cross recessed, M3x5)       |      |
|       | 33   | SPDD04012 | Pan head screw (cross recessed, M4x12)      |      |
|       | 34   | SGAD04008 | Flat head screw (cross recessed head, M4x8) |      |
|       | 35   | SPDD03005 | Pan head screw (cross recessed, M3x5)       |      |
|       | 36   | SPDD03004 | Pan head screw (cross recessed, M3x4)       |      |
|       | 37   | NHAD03000 | Hexagon nut (M3)                            |      |
|       | 38   | WSAD03000 | Spring lock washer (M3)                     |      |
|       | 39   | SGAD03004 | Flat head screw (cross recessed head, M3x4) |      |
|       | 40   | WPAD03000 | Plain washer (M3)                           |      |
|       | 41   | SGAD03006 | Flat head screw (cross recessed head, M3x6) |      |
|       | 42   | NHCD03000 | Hexagon nut (M3)                            |      |

CAa8A18 29c-1





# CAP FRAME (CAP STRETCHER)

CAa8A18 29c-1

| Ass'y | El't | Parts No. | Parts Names                                 | Note |
|-------|------|-----------|---------------------------------------------|------|
|       | 1    | FRA44501  | Cap stretcher (for wide type)               |      |
|       | 2    | FRA44600  | Base E                                      |      |
|       | 3    | FRA44610  | Stopper A                                   |      |
|       | 4    | FRA44580  | Hinge                                       |      |
|       | 5    | FRA44590  | Base D                                      |      |
|       | 6    | NHAD05000 | Hexagon nut (M5)                            |      |
|       | 7    | FRA44620  | Tension coil spring                         |      |
|       | 8    | SCAD05012 | Hexagon socket head cap screw (M5x12)       |      |
|       | 9    | FRA44561  | Base B                                      |      |
|       | 10   | SCAD05020 | Hexagon socket head cap screw (M5x20)       |      |
|       | 11   | FRA44571  | Base C                                      |      |
|       | 12   | SWAB10020 | Wing bolt (M10x20)                          |      |
|       | 13   | FRA44630  | Cushion                                     |      |
|       | 14   | FRA44531  | Back plate                                  |      |
|       | 15   | FRA44540  | R block                                     |      |
|       | 16   | FRA43590  | Lever bracket (right)                       |      |
|       | 17   | FRA43560  | Hold lever ass'y (right)                    |      |
|       | 18   | FRA43620  | Torsion coil spring (right)                 |      |
|       | 19   | FRA43610  | Support pin                                 |      |
|       | 20   | FRA43601  | Lock pin                                    |      |
|       | 21   | FRA43550  | Spring                                      |      |
|       | 22   | FRA43540  | Center guide                                |      |
|       | 23   | FRA43650  | Lever bracket (left)                        |      |
|       | 24   | FRA43630  | Hold lever ass'y (left)                     |      |
|       | 25   | FRA43660  | Torsion coil spring (left)                  |      |
|       | 26   | FRA44510  | Cylinder                                    |      |
|       | 27   | FRA44521  | Stretch plate (for wide type)               |      |
|       | 28   | FRA46310  | Cap stretcher (for semi wide type)          |      |
|       | 29   | FRA46300  | Stretch plate (for semi wide type)          |      |
|       | 30   | SCAD05035 | Hexagon socket head cap screw (M5x35)       |      |
|       | 31   | WSAD05000 | Spring lock washer (M5)                     |      |
|       | 32   | WPAD05000 | Plain washer (M5)                           |      |
|       | 33   | SPAD03005 | Pan head screw (cross recessed, M3x5)       |      |
|       | 34   | SGAD03005 | Flat head screw (cross recessed head, M3x5) |      |
|       | 35   | SPDD04010 | Pan head screw (cross recessed, M4x10)      |      |
|       | 36   | NHCD04000 | Hexagon nut (M4)                            |      |
|       | 37   | WSAD04000 | Spring lock washer (M4)                     |      |
|       | 38   | SPDD04008 | Pan head screw (cross recessed, M4x8)       |      |



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Model

Machine No.