

**brother**

**HIGH SPEED SAFETY STITCH SEWING MACHINE  
SICHERHEITS-SCHNELLNÄHMASCHINE  
MACHINE A POINT DE SURETE A HAUTE VITESSE  
MAQUINA PARA COSTURA DE SEGURIDAD RAPIDA**

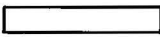


**MA4-B581**

**PARTS BOOK  
TEILEKATALOG  
LIVRE DES PIECES  
LIBRO DE REFERENCIA DE PIEZAS**

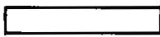
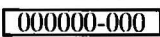

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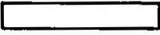
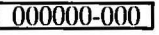
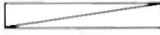
## Notes for using this parts book

1. This book is applicable to sewing machines which have the same plate number as shown on the cover of this book (or correction sheet).
2. If the symbol  or  is in the "Parts No." column or the "Assembly No." column, please refer to the separate parts list (page 20).
3. The symbol  in the "Parts No." column indicates that the parts is not available for supply. If, however, there is a number in the "Assembly No." column, the parts can be ordered as an assembly. Please, therefore, order by using the assembly No.
4. If the ※ symbol is found before the Parts No., order this parts together with its paired parts.
5. This book was prepared based on information available in February 1984.
6. Parts are subject to changes in design without prior notice.

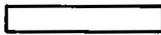

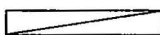
## Anmerkungen zum Gebrauch dieses Stücklistebuches

1. Dieses Buch bezieht sich auf die Nähmaschinen mit derselben Kennungsnummer wie auf diesem Buchumschlag (oder auf dem Korrekturblatt).
2. Wenn in der Stücknummer oder Gerätesatznummer Spalte das Zeichen  oder  steht, schlagen Sie bitte bei der gesonderte Stückliste (Seite 20) nach.
3. Dieses Zeichen  in der Spalte "Teilnummer" bedeutet, daß dieser Teil nicht lieferbar ist. Wenn jedoch in der Spalte "Gerätesatznummer" eine Nummer steht, kann dieser Teil als ein Geräteteilsatz bestellt werden. Bestellen Sie daher bitte mit dieser Gerätesatznummer.
4. Bei diesem Zeichen ※ vor der Teilnummer bestellen Sie bitte diesen Teil Paarweise, zusammen mit seinem Gegenstück.
5. Dieses Buch basiert auf den Informationen vom Februar 1984.
6. Modelländerungen sind vorbehalten.

## Notes sur l'utilisation de ce manuel de pièces détachées

1. Ce manuel est destiné aux machines à coudre ayant le même numéro de plaque montré sur la couverture de ce manuel (ou sur la feuille de corrections).
2. Si le symbole  ou  est présent dans la colonne "No. de pièce" ou dans la colonne "No. de ensemble", se référer à la liste de pièces annexe (page 20).
3. Le symbole  dans la colonne "N° de pièce" signifie que la pièce ne peut être fournie. Si, dans la colonne "N° jeu de pces", il y a un numéro de nomenclature, la pièce peut être commandée comme faisant partie d'un jeu de pièces. Donc, pour toute commande, veuillez spécifier le n° du jeu de pièces.
4. Si, devant le n° de pièce, il y a le symbole ※, veuillez commander cette pièce avec sa pièce appariée.
5. Ce manuel a été fait d'après les renseignements valables au mois d' Février 1984.
6. Les pièces peuvent être sujettes à des modifications sans préavis.

## Notas para usar este Libro de Piezas

1. Este libro sirve para todas las máquinas de coser que llevan la misma placa de identificación que la que se puede ver en la tapa de este libro (o en la hoja de erratas).
2. De haber el símbolo  o el  en la columna del "Número de Pieza" o en la del "Número de Juego", habrá que ver la lista de piezas separada (página 20).
3. El símbolo  , que se encuentra en la columna del "Número de Pieza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Número de Juego", se podrá ordenar la pieza con todo el juego. Por lo tanto, será mejor hacer el pedido recurriendo al número del juego respectivo.
4. Si antes del número de una pieza, se encuentra el símbolo ※ , habrá que ordenar dicha pieza junto con la otra con la que va la misma.
5. Este libro ha sido compilado basándose en los datos de que se disponía en Febrero de 1984.
6. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

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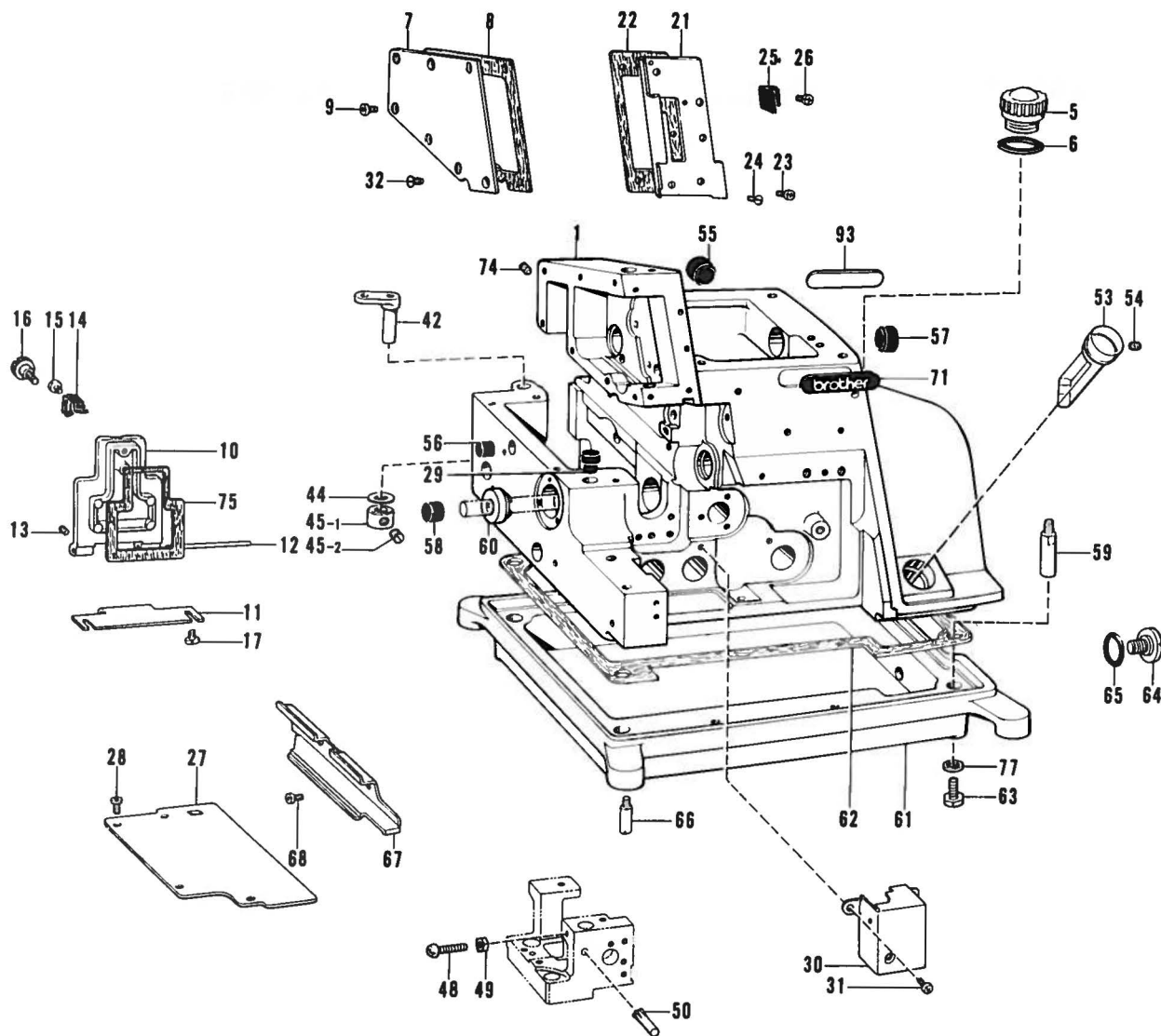
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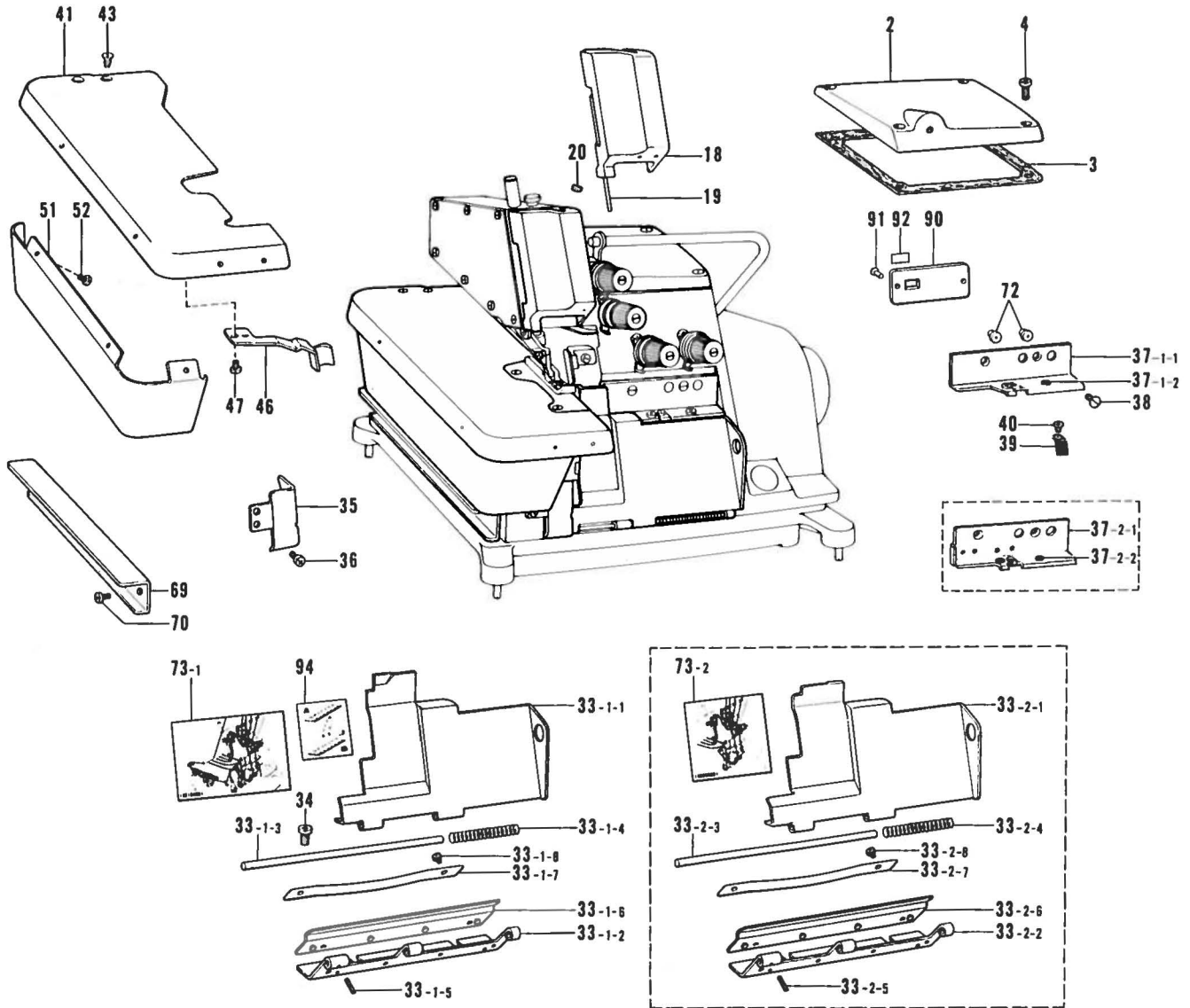
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A. Machine body (1) / Maschinengehäuse (1)  
 Corps de la machine (1) / Cuerpo de la máquina (1)



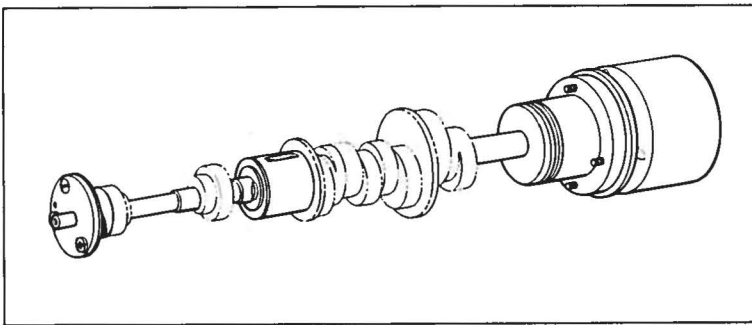
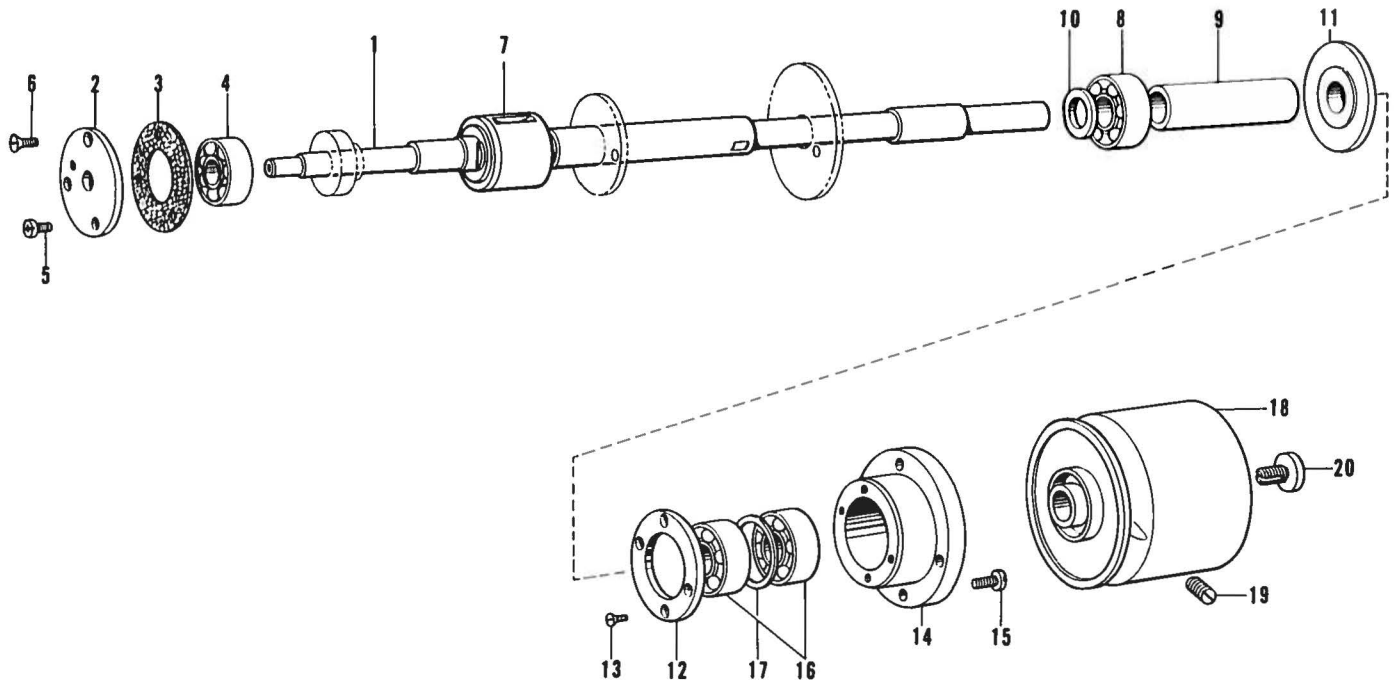
| Ref. No. | Name of Parts                      | Q'ty | Parts No.  | Assembly No. | Ref. No. | Name of Parts           | Q'ty | Parts No.  | Assembly No.                          |
|----------|------------------------------------|------|------------|--------------|----------|-------------------------|------|------------|---------------------------------------|
| 1        | Machine Body                       | 1    |            |              | 44       | Washer                  | 1    | 141183-000 |                                       |
| 5        | Cap For Oil Feeding Hole           | 1    | 146421-000 |              | 45- 1    | Set Collar              | 1    |            | A-45<br>Collar Assembly<br>181969-003 |
| 6        | Packing                            | 1    | 113589-001 |              | 45- 2    | Screw 6.35              | 2    | 101706-001 |                                       |
| 7        | Cover For Needle Driving Mechanism | 1    | 148067-001 |              | 48       | Screw 357 - 40 x 14     | 1    | 062671-412 |                                       |
| 8        | Packing                            | 1    | 148068-000 |              | 49       | Nut 3.57                | 1    | 021670-202 |                                       |
| 9        | Screw 437 - 40 x 7                 | 6    | 062680-716 |              | 50       | Pin                     | 1    | 117608-001 |                                       |
| 10       | Cover For Feed Mechanism (B)       | 1    | 148069-001 |              | 53       | Oil Gauge               | 1    | 148084-001 |                                       |
| 11       | Feed Mechanism Cover Hinge         | 1    | 148070-001 |              | 54       | Screw 4.37              | 1    | 014680-422 |                                       |
| 12       | Hinge Shaft                        | 1    | 148071-000 |              | 55       | Oil Cap                 | 1    | 140066-001 |                                       |
| 13       | Screw 3.18                         | 1    | 146427-001 |              | 56       | Oil Cap                 | 1    | 146315-000 |                                       |
| 14       | Stopper Spring                     | 1    | 148072-001 |              | 57       | Oil Cap                 | 1    | 140066-001 |                                       |
| 15       | Screw 357 - 40 x 6                 | 1    | 062670-612 |              | 58       | Oil Cap                 | 1    | 140065-001 |                                       |
| 16       | Screw 3.57                         | 1    | 129984-002 |              | 59       | Machine Body Leg        | 4    | 148085-001 |                                       |
| 17       | Screw 437 - 40 x 7                 | 2    | 062680-712 |              | 60       | Bushing                 | 1    | 148086-000 |                                       |
| 21       | Face Plate                         | 1    | 148074-001 |              | 61       | Oil reservoir           | 1    | 148087-001 |                                       |
| 22       | Packing                            | 1    | 148075-000 |              | 62       | Packing                 | 1    | 148088-000 |                                       |
| 23       | Screw 357 - 40 x 6                 | 1    | 062670-612 |              | 63       | Bolt 6.35 x 16          | 4    | 017771-612 |                                       |
| 24       | Screw 3.57                         | 1    | 102843-004 |              | 64       | Screw 9.52              | 1    | 110641-002 |                                       |
| 25       | Stopper Spring                     | 1    | 140041-001 |              | 65       | "O" Ring                | 1    | 109203-001 |                                       |
| 26       | Screw 357 - 40 x 6                 | 1    | 062670-612 |              | 66       | Set Pin For Cushion     | 4    | 140077-001 |                                       |
| 27       | Cover For Feed Mechanism (A)       | 1    | 148076-001 |              | 67       | Cloth Guide (L)         | 1    | 148089-001 |                                       |
| 28       | Screw 357 - 40 x 6                 | 4    | 062670-612 |              | 68       | Screw 357 - 40 x 6      | 2    | 062670-612 |                                       |
| 29       | Cloth Plate Cushion                | 1    | 148077-001 |              | 71       | Name Plate              | 1    |            |                                       |
| 30       | Inside Cover                       | 1    | 148078-001 |              | 74       | Screw 5.95              | 2    | 013760-612 |                                       |
| 31       | Screw 357 - 40 x 6                 | 2    | 062670-612 |              | 75       | Packing                 | 1    | 148859-000 |                                       |
| 32       | Screw 4.37                         | 1    | 100032-003 |              | 77       | Washer                  | 4    | 159476-000 |                                       |
| 42       | Cloth Plate Supporter              | 1    | 143374-001 |              | 93       | Parts Book Number Plate | 1    |            |                                       |

A. Machine body (2) / Maschinengehäuse (2)  
 Corps de la machine (2) / Cuerpo de la máquina (2)



| Ref. No. | Name of Parts             | Q'ty | Parts No.  | Assembly No.                                     | Ref. No. | Name of Parts                  | Q'ty | Parts No.  | Assembly No.   |
|----------|---------------------------|------|------------|--|----------|--------------------------------|------|------------|--|
| 2        | Top Cover                 | 1    | 148065-001 |  | 37- 1- 1 | Supporter For Front Cover      | 1    |            | A-37-1 Supporter For Front Cover Assembly 146444-001           |
| 3        | Packing                   | 1    | 148066-000 |  | 37- 1- 2 | Thread Bushing                 | 2    | 146924-000 |  |
| 4        | Screw 437 - 40 x 14       | 4    | 062681-412 |  | 37- 2- 1 | Supporter For Front Cover      | 1    |            | A-37-2 Supporter For Front Cover Assembly (Binding) 147367-001 |
| 18       | Face Plate Cover          | 1    | 148073-001 |  | 37- 2- 2 | Thread Bushing                 | 2    | 146924-000 |  |
| 19       | Pin For Face Plate        | 1    | 146426-000 |  | 38       | Screw 4.37                     | 2    | 117160-001 |  |
| 20       | Screw 3.18                | 1    | 146427-001 |  | 39       | Stopper Spring For Front Cover | 1    | 146446-001 |  |
| 33- 1- 1 | Front Cover               | 1    |            | A-33-1 Front Cover Assembly 148987-001           | 40       | Screw 357 - 40 x 4             | 1    | 062670-412 |  |
| 33- 1- 2 | Front Cover Hinge         | 1    | 146440-001 |  | 41       | Cloth Plate                    | 1    | 148082-001 |  |
| 33- 1- 3 | Shaft for Front Cover     | 1    | 146441-000 |  | 43       | Screw 4.37                     | 2    | 100032-003 |  |
| 33- 1- 4 | Spring                    | 1    | 146442-001 |  | 46       | Stopper Spring For Cloth Plate | 1    | 148304-001 |  |
| 33- 1- 5 | Spring Pin 1.4 x 8        | 1    | 047140-842 |  | 47       | Screw 357 - 40 x 6             | 2    | 062670-612 |  |
| 33- 1- 6 | Hinge Cover               | 1    | 148984-001 |  | 51       | Cloth Plate Lower              | 1    | 148083-001 |  |
| 33- 1- 7 | Hinge Cover Presser Plate | 1    | 152194-001 |  | 52       | Screw 357 - 40 x 4             | 3    | 062670-412 |  |
| 33- 1- 8 | Screw 357 - 40 x 4        | 2    | 062670-412 |  | 69       | Frame Hanger                   | 1    | 148090-001 |  |
| 33- 2- 1 | Front Cover               | 1    |            | A-33-2 Front Cover Assembly 148989-001 (Binding) | 70       | Screw 437 - 40 x 7             | 3    | 062680-712 |  |
| 33- 2- 2 | Front Cover Hinge         | 1    | 146440-001 |  | 72       | Oil Cap                        | 2    | 143196-001 |  |
| 33- 2- 3 | Shaft For Front Cover     | 1    | 146441-000 |  | 73- 1    | Threading Diagram              | 1    | 148104-001 |  |
| 33- 2- 4 | Spring                    | 1    | 146442-001 |  | 73- 2    | Threading Diagram              | 1    | 148105-001 |  |
| 33- 2- 5 | Spring Pin 1.4 x 8        | 1    | 047140-842 |  | 90       | Model Plate B581               | 1    |            |  |
| 33- 2- 6 | Hinge Cover               | 1    | 148984-001 |  | 91       | Pin                            | 2    |            |  |
| 33- 2- 7 | Hinge Cover Presser Plate | 1    | 152194-001 |  | 92       | Label                          | 1    | 146976-    |  |
| 33- 2- 8 | Screw 357 - 40 x 4        | 2    | 062670-412 |  | 94       | Label                          | 1    | 147943-001 |  |
| 34       | Screw 437 - 40 x 8        | 2    | 060680-812 |  |          |                                |      |            |  |
| 35       | Front Cover Guide         | 1    | 148103-001 |  |          |                                |      |            |  |
| 36       | Screw 357 - 40 x 6        | 2    | 062670-612 |  |          |                                |      |            |  |

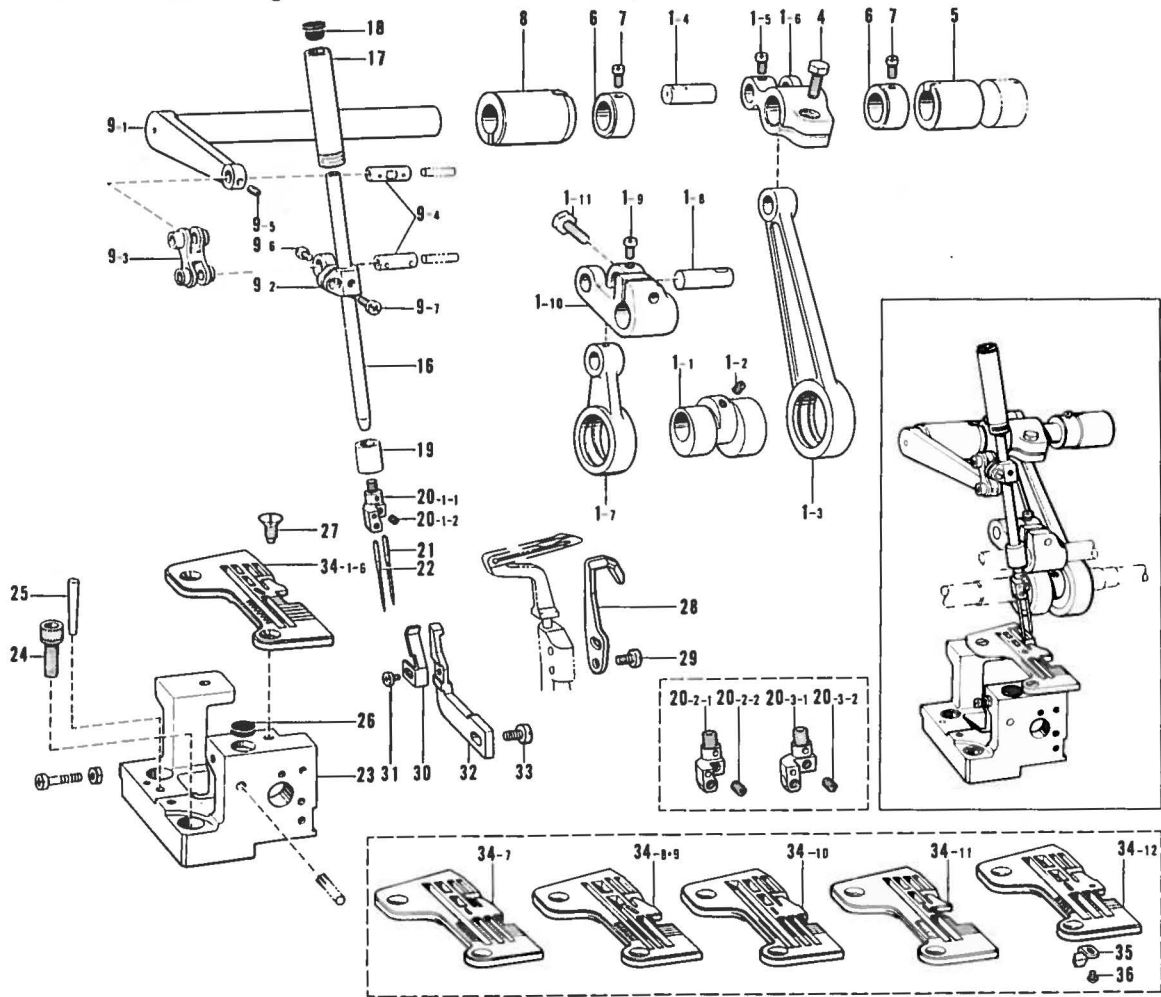
B. Crank shaft mechanism / Kurbelwelle  
 Mécanisme de vilebrequin / Mecanismo del cigüal



| Ref. No. | Name of Parts                     | Q'ty | Parts No.  | Assembly No. | Ref. No | Name of Parts       | Q'ty | Parts No.  | Assembly No. |
|----------|-----------------------------------|------|------------|--------------|---------|---------------------|------|------------|--------------|
| 1        | Crank Shaft                       | 1    | 148113-001 |              | 11      | Oil Rejector        | 1    | 140084-000 |              |
| 2        | Bearing Cap                       | 1    | 150806-001 |              | 12      | Bearing Cover       | 1    | 110673-000 |              |
| 3        | Packing                           | 1    | 143312-000 |              | 13      | Screw 3.18          | 4    | 107244-001 |              |
| 4        | Bearing 6000                      | 1    | 072600-000 |              | 14      | Bearing Case        | 1    | 110670-000 |              |
| 5        | Screw 357 - 40 x 8                | 2    | 062670-812 |              | 15      | Screw 437 - 40 x 10 | 4    | 062681-012 |              |
| 6        | Screw 3.57                        | 1    | 102538-002 |              | 16      | Bearing 6001        | 2    | 072600-100 |              |
| 7        | Crank Shaft Bushing (L.) Assembly | 1    | 148373-000 |              | 17      | Thrust Washer       | 1    | 110672-000 |              |
| 8        | Bearing 6001                      | 1    | 072600-100 |              | 18      | Pulley              | 1    | 140085-003 |              |
| 9        | Crank Shaft Bushing (L.) Assembly | 1    | 148111-000 |              | 19      | Screw 5.95          | 2    | 013761-410 |              |
| 10       | Spacer                            | 1    | 148112-000 |              | 20      | Screw               | 1    | 140180-001 |              |

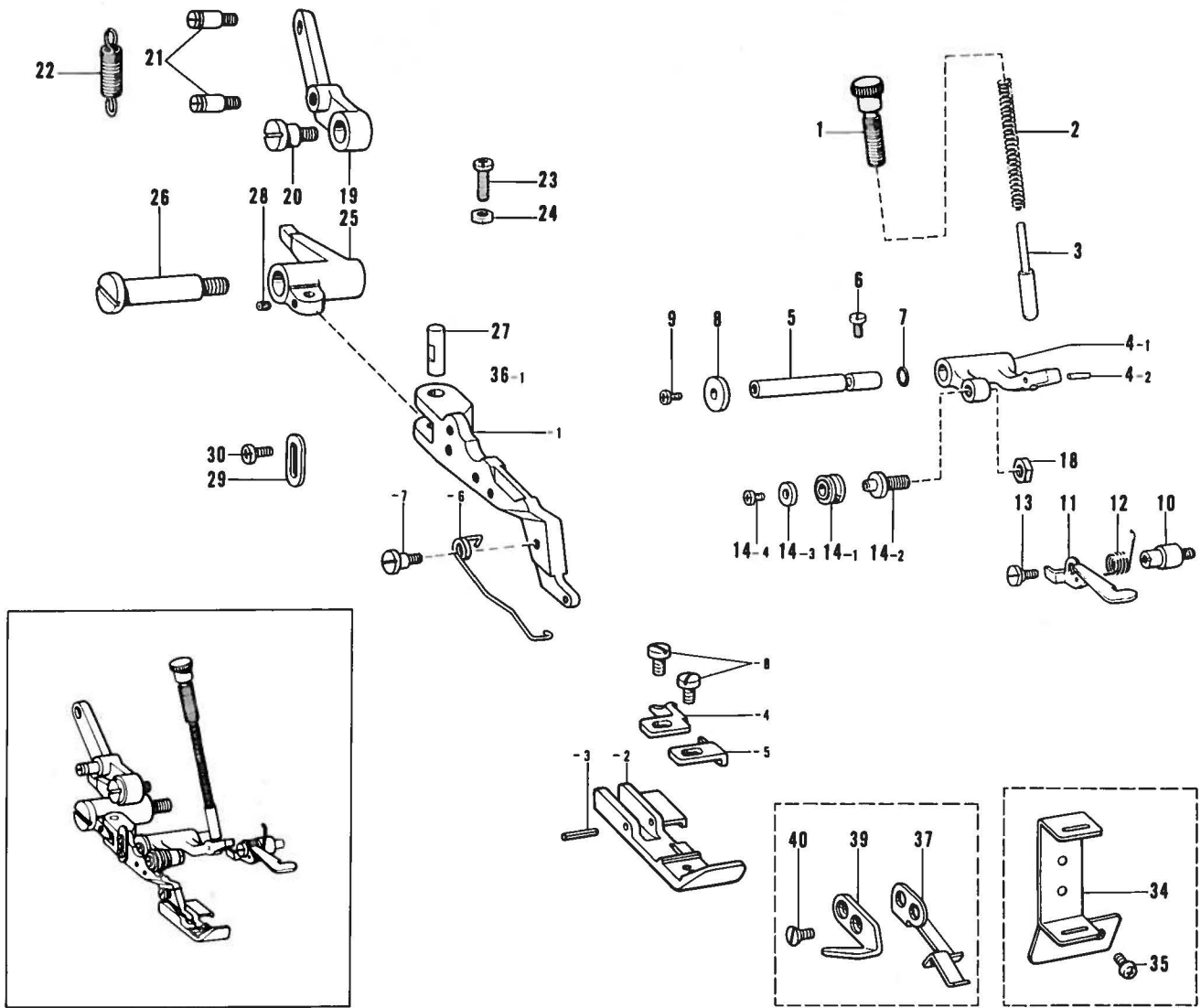


C. Needle bar mechanism / Nadelstangenvorrichtung  
 Mécanisme de barre à aiguille / Mecanismo del barra de aguja



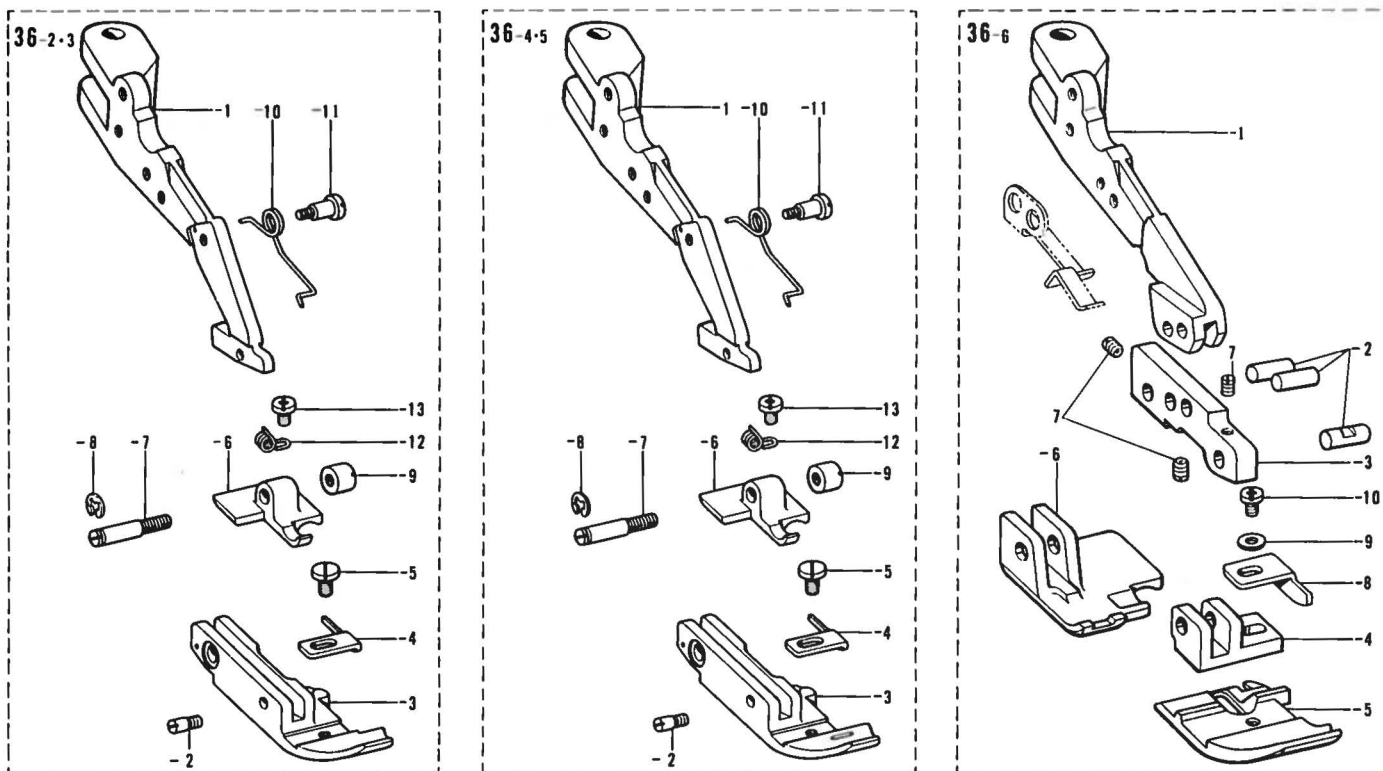
| Ref. No. | Name of Parts                         | Q'ty | Parts No.  | Assembly No.   | Ref. No.                     | Name of Parts                | Q'ty       | Parts No.  | Assembly No.                                       |
|----------|---------------------------------------|------|------------|--|------------------------------|------------------------------|------------|------------|--|
| 1- 1     | Needle Bar, Upper Knife Eccentric Cam | 1    |            | C-1<br>Needle Arm<br>Driving Crank<br>Rod Assembly<br>148858-001 | 20- 3- 1                     | Needle Clamp 5               | 1          |            | C-20-3<br>Needle Clamp<br>5 Assembly<br>146491-001 |
| 1- 2     | Screw 6.35                            | 2    | 148857-001 |  | 20- 3- 2                     | Screw 3.18                   | 2          | 146427-001 |  |
| 1- 3     | Needle Bar Driving Crank Rod          | 1    |            |  | 21                           | Needle DC x 1                | 1          | 112297-    |  |
| 1- 4     | Rod Pin                               | 1    | 148117-001 |  | 22                           | Needle DM x 13               | 1          | 140104-    |  |
| 1- 5     | Screw 4.37                            | 1    | 100366-001 |  | 23                           | Needle Plate Support Bracket | 1          | 148124-002 |  |
| 1- 6     | Needle Arm Driving Lever              | 1    | 148118-001 |  | 24                           | Bolt 6 x 16                  | 2          | 018061-622 |  |
| 1- 7     | Upper Knife Driving Rod               | 1    |            |  | 25                           | Pin                          | 1          | 107351-001 |  |
| 1- 8     | Rod Pin                               | 1    | 148117-001 |  | 26                           | Cloth Plate Cushion (B)      | 1          | 111486-001 |  |
| 1- 9     | Screw 4.37                            | 1    | 100366-001 |  | 27                           | Screw 4.37                   | 2          | 100032-003 |  |
| 1-10     | Upper Knife Driving Lever             | 1    |            |  | 28                           | Movable Needle Guard         | 1          | 144127-001 |  |
| 1-11     | Bolt 5.95 x 16                        | 1    | 017761-612 |  | 29                           | Screw 357 - 40 x 8           | 2          | 062670-812 |  |
| 4        | Bolt 5.95 x 16                        | 1    | 017761-612 | 30   | Chain Stich Needle Guard (F) | 1                            | 148125-001 |            |  |
| 5        | Needle Shaft Bushing (Right)          | 1    | 148120-000 | 31   | Screw 318 - 40 x 4           | 1                            | 062660-412 |            |  |
| 6        | Set Collar                            | 2    | 140092-001 | 32   | Chain Stich Needle Guard (B) | 1                            | 148126-001 |            |  |
| 7        | Screw 4.37                            | 4    | 100366-001 | 33   | Screw 437 - 40 x 7           | 1                            | 062680-712 |            |  |
| 8        | Needle Shaft Bushing (Left)           | 1    | 148121-000 | 34- 1  | Needle Plate                 | 1                            | 146498-001 |            |  |
| 9- 1     | Needle Bar Crank Shaft                | 1    |            | 34- 2  | Needle Plate                 | 1                            | 146499-001 |            |  |
| 9- 2     | Needle Bar Clamp                      | 1    | 148122-001 | 34- 3  | Needle Plate                 | 1                            | 146501-001 |            |  |
| 9- 3     | Needle Bar Link                       | 1    | 148270-001 | 34- 4  | Needle Plate                 | 1                            | 146502-001 |            |  |
| 9- 4     | Needle Bar Link Stud                  | 2    | 148271-001 | 34- 5  | Needle Plate                 | 1                            | 146503-001 |            |  |
| 9- 5     | Screw 3.18                            | 1    | 146427-001 | 34- 6  | Needle Plate                 | 1                            | 148280-001 |            |  |
| 9- 6     | Screw 318 - 40 x 4                    | 1    | 062660-412 | 34- 7  | Needle Plate                 | 1                            | 146504-001 |            |  |
| 9- 7     | Screw 357 - 40 x 8                    | 1    | 062670-812 | 34- 8  | Needle Plate (Ruffling)      | 1                            | S01770-001 |            |  |
| 16       | Needle Bar                            | 1    | 146483-001 | 34- 9  | Needle Plate (Ruffling)      | 1                            | S01773-001 |            |  |
| 17       | Needle Bar Bushing (U)                | 1    | 148123-001 | 34-10  | Needle Plate (Ruffling)      | 1                            | S01775-001 |            |  |
| 18       | Cap                                   | 1    | 114255-002 | 34-11  | Needle Plate (Binding)       | 1                            | 147369-001 |            |  |
| 19       | Needle Bar Bushing (D)                | 1    | 146486-000 | 34-12  | Needle Plate (Denim)         | 1                            | 159770-001 |            |  |
| 20- 1- 1 | Needle Clamp 2                        | 1    |            | 35   | Needle Guide                 | 1                            | 159757-001 |            |  |
| 20- 1- 2 | Screw 3.18                            | 2    | 146427-001 | 36   | Screw 2.38                   | 1                            | 100105-005 |            |  |
| 20- 2- 1 | Needle Clamp 3                        | 1    |            |  |                              |                              |            |            |  |
| 20- 2- 2 | Screw 3.18                            | 2    | 146427-001 |  |                              |                              |            |            |  |

D. Presser foot mechanism (1) / Stoffdrückerfuß (1)  
 Mécanisme du pied presseur (1) / Mecanismo del prensatelas (1)



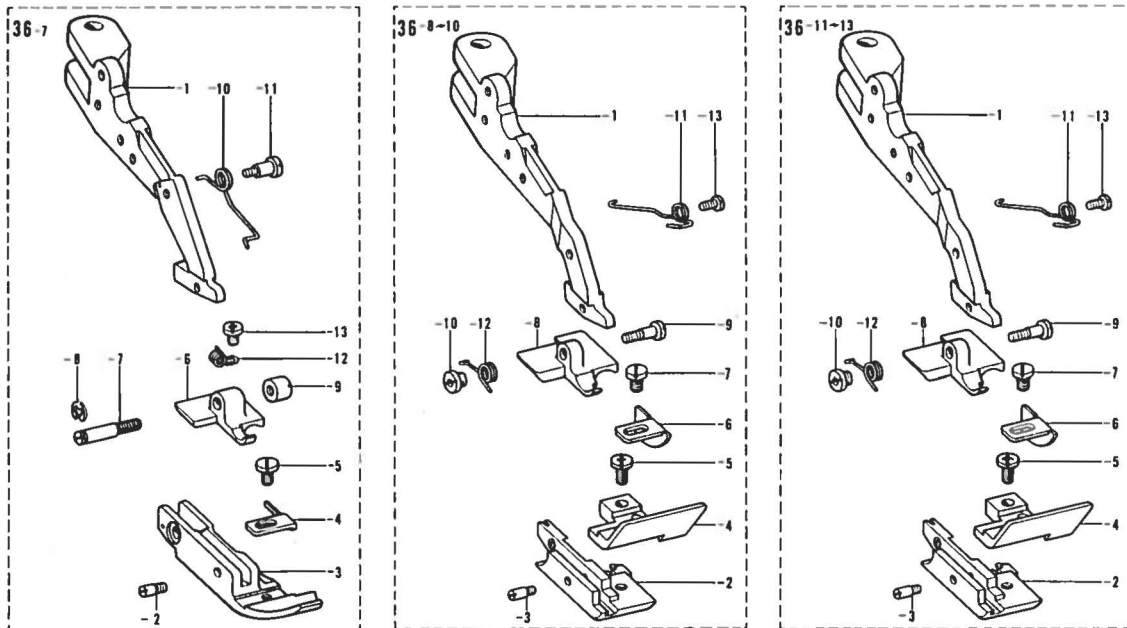
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|----------|----------------------------|------|------------|--|----------|------------------------|------|------------|---|
| 1        | Presser Adjusting Screw    | 1    | 148128-001 |  | 22       | Spring                 | 1    | 148145-001 |   |
| 2        | Spring                     | 1    | 148129-001 |  | 23       | Screw 437 - 40 x 16    | 1    | 062681-612 |   |
| 3        | Pin                        | 1    | 148130-001 |  | 24       | Nut 4.37               | 1    | 021680-202 |   |
| 4-1      | Presser Bar Lever          | 1    |            | D-4                                    | 25       | Presser Foot Supporter | 1    | 148146-001 |   |
| 4-2      | Rollar                     | 1    | 148133-001 | Presser Bar Lever Assembly 148131-001  | 26       | Stud Screw 7.94        | 1    | 148147-001 |   |
| 5        | Presser Bar Lever Shaft    | 1    | 148134-001 |  | 27       | Pin                    | 1    | 158438-001 |   |
| 6        | Screw 4.37                 | 1    | 104908-001 |  | 28       | Screw 3.18             | 1    | 146427-001 |   |
| 7        | "O" Ring PW2               | 1    | 081002-670 |  | 29       | Presser Arm Stopper    | 1    | 148148-001 |   |
| 8        | Washer                     | 1    | 148135-001 |  | 30       | Screw 318 - 40 x 4     | 2    | 062660-412 |   |
| 9        | Screw 437 - 40 x 7         | 1    | 062680-712 |  | 34       | Tape Guide             | 1    | 146883-001 |   |
| 10       | Presser Bar Lifter Bracket | 1    | 148136-001 |  | 35       | Screw 318 - 40 x 4     | 2    | 062660-412 |   |
| 11       | Presser Bar Lifter         | 1    | 148137-001 |  | 36-1-1   | Presser Arm            | 1    |            |   |
| 12       | Spring                     | 1    | 148138-001 |  | 36-1-2   | Presser Foot 2C        | 1    |            |   |
| 13       | Stud Screw 3.57            | 1    | 148139-001 |  | 36-1-3   | Pin                    | 1    | 142243-000 | D-36-1 Presser Foot Assembly 148155-001 |
| 14-1     | Presser Roller             | 1    |            | D-14                                   | 36-1-4   | Stitch Tongue 3C       | 1    | 142244-001 |   |
| 14-2     | Presser Arm Rollar Stud    | 1    |            | Presser Arm Rollar Assembly 148346-001 | 36-1-5   | Chip Guard (3)         | 1    | 142245-001 |   |
| 14-3     | Washer                     | 1    | 148813-001 |  | 36-1-6   | Spring 3C              | 1    | 142246-001 |   |
| 14-4     | Screw 357 - 40 x 5         | 1    | 062670-512 |  | 36-1-7   | Screw                  | 1    | 142247-001 |   |
| 18       | Nut 5.95                   | 1    | 100022-005 |  | 36-1-8   | Screw 2.38             | 2    | S01295-001 |   |
| 19       | Presser Foot Lifter Lever  | 1    | 148143-001 |  | 37       | Spring Plate           | 1    | 156448-001 |   |
| 20       | Stud Screw 6.35            | 1    | 141528-002 |  | 39       | Trimming Knife         | 1    | 148259-001 |   |
| 21       | Spring Hook                | 2    | 148144-001 |  | 40       | Screw 3.18             | 2    | 141542-001 |   |

D. Presser foot mechanism (2) / Stoffdrückerfuß (2)  
 Mécanisme du pied presseur (2) / Mecanismo del prensatelas (2)



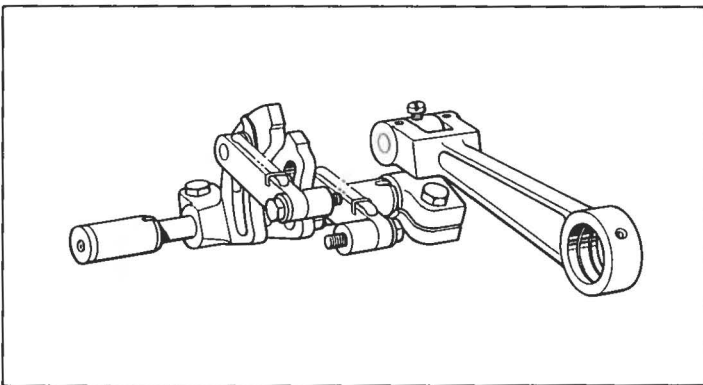
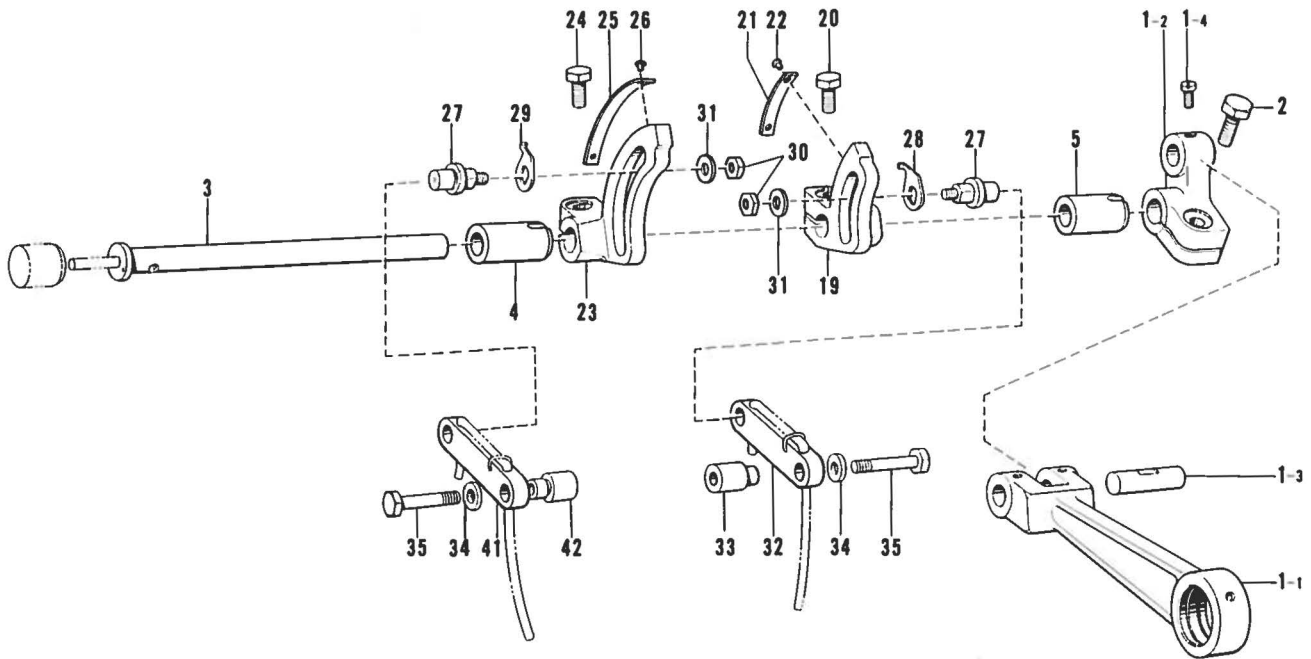
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|----------|----------------------|------|------------|--|------------------------------|----------------------|------------|------------|--|
| 36- 2- 1 | Presser Arm          | 1    |            | D-36-2<br>Presser Foot<br>Assembly<br>148150-101 | 36- 4- 6                     | Presser Foot (Rear)  | 1          | 149260-001 | D-36-4<br>Presser Foot<br>Assembly<br>148162-101<br>(Taping 3mm) |
| 36- 2- 2 | Screw                | 1    | 146865-001 |  | 36- 4- 7                     | Screw                | 1          | 149261-001 |  |
| 36- 2- 3 | Presser Foot         | 1    |            |  | 36- 4- 8                     | Stop Ring 2.5        | 1          | 048025-342 |  |
| 36- 2- 4 | Presser Foot (Front) | 1    | 145147-001 |  | 36- 4- 9                     | Nut 3.18             | 1          | 149262-001 |  |
| 36- 2- 5 | Screw 2.38           | 1    | 105288-001 |  | 36- 4-10                     | Spring               | 1          | 146869-001 |  |
| 36- 2- 6 | Presser Foot (Rear)  | 1    | 149260-001 |  | 36- 4-11                     | Stud Screw 3.18      | 1          | 146901-001 |  |
| 36- 2- 7 | Screw                | 1    | 149261-001 |  | 36- 4-12                     | Spring               | 1          | 146870-001 |  |
| 36- 2- 8 | Stop Ring 2.5        | 1    | 048025-342 |  | 36- 4-13                     | Screw 2.38           | 1          | 122771-002 |  |
| 36- 2- 9 | Nut 3.18             | 1    | 149262-001 |  | 36- 5- 1                     | Presser Arm          | 1          |            |  |
| 36- 2-10 | Spring               | 1    | 146869-001 |  | 36- 5- 2                     | Screw                | 1          | 140270-001 |  |
| 36- 2-11 | Stud Screw 3.18      | 1    | 146901-001 |  | 36- 5- 3                     | Presser Foot         | 1          |            |  |
| 36- 2-12 | Spring               | 1    | 146870-001 |  | 36- 5- 4                     | Presser Foot (Front) | 1          | 145147-001 |  |
| 36- 2-13 | Screw 2.38           | 1    | 122771-002 |  | 36- 5- 5                     | Screw 2.38           | 1          | 105288-001 |  |
| 36- 3- 1 | Presser Arm          | 1    |            | 36- 5- 6   | Presser Foot (Rear)          | 1                    | 149265-001 |            |  |
| 36- 3- 2 | Screw                | 1    | 140270-001 | 36- 5- 7   | Screw                        | 1                    | 149266-001 |            |  |
| 36- 3- 3 | Presser Foot         | 1    |            | 36- 5- 8   | Stop Ring 2.5                | 1                    | 048025-342 |            |  |
| 36- 3- 4 | Presser Foot (Front) | 1    | 145147-001 | 36- 5- 9   | Nut 3.18                     | 1                    | 149262-001 |            |  |
| 36- 3- 5 | Screw 2.38           | 1    | 105288-001 | 36- 5-10   | Spring                       | 1                    | 146869-001 |            |  |
| 36- 3- 6 | Presser Foot (Rear)  | 1    | 149265-001 | 36- 5-11   | Stud Screw 3.18              | 1                    | 146901-001 |            |  |
| 36- 3- 7 | Screw                | 1    | 149266-001 | 36- 5-12   | Spring                       | 1                    | 146870-001 |            |  |
| 36- 3- 8 | Stop Ring 2.5        | 1    | 048025-342 | 36- 5-13   | Screw 2.38                   | 1                    | 122771-002 |            |  |
| 36- 3- 9 | Nut 3.18             | 1    | 149262-001 | 36- 6- 1   | Presser Arm                  | 1                    |            |            |  |
| 36- 3-10 | Spring               | 1    | 146869-001 | 36- 6- 2   | Hing Shaft                   | 3                    | S01375-001 |            |  |
| 36- 3-11 | Stud Screw 3.18      | 1    | 146901-001 | 36- 6- 3   | Presser Foot Supporter       | 1                    | S01373-001 |            |  |
| 36- 3-12 | Spring               | 1    | 146870-001 | 36- 6- 4   | Presser Foot Under Supporter | 1                    | S01372-001 |            |  |
| 36- 3-13 | Screw 2.38           | 1    | 122771-002 | 36- 6- 5   | Presser Foot                 | 1                    |            |            |  |
| 36- 4- 1 | Presser Arm          | 1    |            | 36- 6- 6   | Presser Foot (Rear)          | 1                    | S01371-001 |            |  |
| 36- 4- 2 | Screw                | 1    | 146865-001 | 36- 6- 7   | Screw 2.38                   | 3                    | S01374-001 |            |  |
| 36- 4- 3 | Presser Foot         | 1    |            | 36- 6- 8   | Presser Foot (Front)         | 1                    | 148020-001 |            |  |
| 36- 4- 4 | Presser Foot (Front) | 1    | 145147-001 | 36- 6- 9   | Washer 3                     | 1                    | 025030-232 |            |  |
| 36- 4- 5 | Screw 2.38           | 1    | 105288-001 | 36- 6-10   | Screw 3/18 - 40 x 6          | 1                    | 062660-612 |            |  |
|          |                      |      |            |  |                              |                      |            |            | D-36-5<br>Presser Foot<br>Assembly<br>149918-001<br>(Taping)     |
|          |                      |      |            |  |                              |                      |            |            | D-36-6<br>Presser Foot<br>Assembly<br>148260-101<br>(Denim)      |

D. Presser foot mechanism (3) / Stoffdrückerfuß (3)  
 Mécanisme du pied presseur (3) / Mecanismo del prensatelas (3)



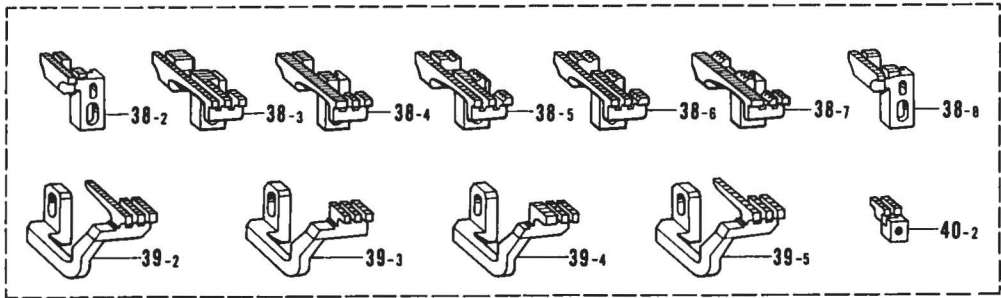
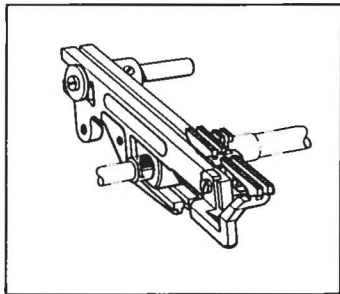
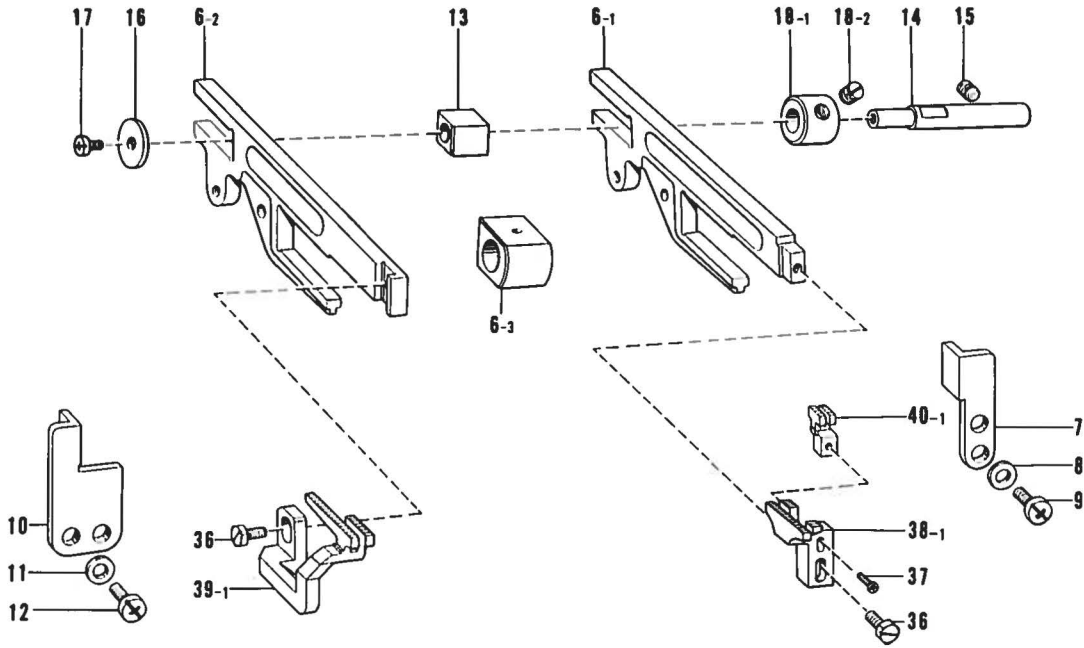
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|----------|----------------------|------|------------|---|----------------------|---------------------|------------|------------|---|
| 36-7-1   | Presser Arm          | 1    |            | D-36-7<br>Presser Foot<br>Assembly<br>148263-101<br>(Binding) | 36-10-8              | Presser Foot (Rear) | 1          | 140991-001 | D-36-10<br>Presser Foot<br>Assembly<br>148161-001<br>(Ruffling 5mm)         |
| 36-7-2   | Screw                | 1    | 146865-001 |   | 36-10-9              | Screw 3.18          | 1          | 140272-001 |   |
| 36-7-3   | Presser Foot         | 1    |            |   | 36-10-10             | Nut                 | 1          | 140273-001 |   |
| 36-7-4   | Presser Foot (Front) | 1    | 147371-001 |   | 36-10-11             | Spring              | 1          | 140993-001 |   |
| 36-7-5   | Screw 2.38           | 1    | 105288-001 |   | 36-10-12             | Spring              | 1          | 140275-001 | D-36-11<br>Presser Foot<br>Assembly<br>148747-001<br>(Ruffling<br>W/Piping) |
| 36-7-6   | Presser Foot (Rear)  | 1    | 149260-001 |   | 36-10-13             | Set Screw           | 1          | 140992-001 |   |
| 36-7-7   | Screw                | 1    | 149261-001 |   | 36-11-1              | Presser Arm         | 1          |            |   |
| 36-7-8   | Stop Ring 2.5        | 1    | 048025-342 |   | 36-11-2              | Presser Foot        | 1          |            |   |
| 36-7-9   | Nut 3.18             | 1    | 149262-001 |   | 36-11-3              | Screw               | 1          | 140270-001 |   |
| 36-7-10  | Spring               | 1    | 146869-001 |   | 36-11-4              | Presser Foot (U)    | 1          | 144777-001 |   |
| 36-7-11  | Stud Screw 3.18      | 1    | 146901-001 |   | 36-11-5              | Screw 318 - 40 x 7  | 1          | 062660-712 |   |
| 36-7-12  | Spring               | 1    | 146870-001 |   | 36-11-6              | Presser Foot        | 1          | 144778-001 |   |
| 36-7-13  | Screw 2.38           | 1    | 122771-002 |   | 36-11-7              | Screw 2.38          | 1          | 105288-001 |   |
| 36-8-1   | Presser Arm          | 1    |            | 36-11-8   | Presser Foot (Rear)  | 1                   | 147787-001 |            |   |
| 36-8-2   | Presser Foot         | 1    |            | 36-11-9   | Screw 3.18           | 1                   | 140272-001 |            |   |
| 36-8-3   | Screw                | 1    | 140270-001 | 36-11-10  | Nut                  | 1                   | 140273-001 |            |   |
| 36-8-4   | Presser Foot (U)     | 1    | 144777-001 | 36-11-11  | Spring               | 1                   | 140993-001 |            |   |
| 36-8-5   | Screw 318 - 40 x 7   | 1    | 062660-712 | 36-11-12  | Spring               | 1                   | 140275-001 |            |   |
| 36-8-6   | Presser Foot (Front) | 1    | 144778-001 | 36-11-13  | Set Screw            | 1                   | 140992-001 |            |   |
| 36-8-7   | Screw 2.38           | 1    | 105288-001 | 36-12-1   | Presser Arm          | 1                   |            |            |   |
| 36-8-8   | Presser Foot (Rear)  | 1    | 146880-001 | 36-12-2   | Presser Foot         | 1                   |            |            |   |
| 36-8-9   | Screw 3.18           | 1    | 140272-001 | 36-12-3   | Screw                | 1                   | 140270-001 |            |   |
| 36-8-10  | Nut                  | 1    | 140273-001 | 36-12-4   | Presser Foot (U)     | 1                   | 144777-001 |            |   |
| 36-8-11  | Spring               | 1    | 140993-001 | 36-12-5   | Screw 318 - 40 x 7   | 1                   | 062660-712 |            |   |
| 36-8-12  | Spring               | 1    | 140275-001 | 36-12-6   | Presser Foot         | 1                   | 144778-001 |            |   |
| 36-8-13  | Set Screw            | 1    | 140992-001 | 36-12-7   | Screw 2.38           | 1                   | 105288-001 |            |   |
| 36-9-1   | Presser Arm          | 1    |            | 36-12-8   | Presser Foot (Rear)  | 1                   | 147488-001 |            |   |
| 36-9-2   | Presser Foot (E)     | 1    |            | 36-12-9   | Screw 3.18           | 1                   | 140272-001 |            |   |
| 36-9-3   | Screw                | 1    | 140270-001 | 36-12-10  | Nut                  | 1                   | 140273-001 |            |   |
| 36-9-4   | Presser Foot (U)     | 1    | 144777-001 | 36-12-11  | Spring               | 1                   | 140993-001 |            |   |
| 36-9-5   | Screw 318 - 40 x 7   | 1    | 062660-712 | 36-12-12  | Spring               | 1                   | 140275-001 |            |   |
| 36-9-6   | Presser Foot (Front) | 1    | 144778-001 | 36-12-13  | Set Screw            | 1                   | 140992-001 |            |   |
| 36-9-7   | Screw 2.38           | 1    | 105288-001 | 36-13-1   | Presser Arm          | 1                   |            |            |   |
| 36-9-8   | Presser Foot (Rear)  | 1    | 140271-001 | 36-13-2   | Presser Foot         | 1                   |            |            |   |
| 36-9-9   | Screw 3.18           | 1    | 140272-001 | 36-13-3   | Screw                | 1                   | 140270-001 |            |   |
| 36-9-10  | Nut                  | 1    | 140273-001 | 36-13-4   | Presser Foot (U)     | 1                   | 144777-001 |            |   |
| 36-9-11  | Spring               | 1    | 140993-001 | 36-13-5   | Screw 318 - 40 x 7   | 1                   | 062660-712 |            |   |
| 36-9-12  | Spring               | 1    | 140275-001 | 36-13-6   | Presser Foot (Front) | 1                   | 144778-001 |            |   |
| 36-9-13  | Set Screw            | 1    | 140992-001 | 36-13-7   | Screw 2.38           | 1                   | 105288-001 |            |   |
| 36-10-1  | Presser Arm          | 1    |            | 36-13-8   | Presser Foot (Rear)  | 1                   | 147489-001 |            |   |
| 36-10-2  | Presser Foot D5      | 1    |            | 36-13-9   | Screw 3.18           | 1                   | 140272-001 |            |   |
| 36-10-3  | Screw                | 1    | 140270-001 | 36-13-10  | Nut                  | 1                   | 140273-001 |            |   |
| 36-10-4  | Presser Foot (U)     | 1    | 144777-001 | 36-13-11  | Spring               | 1                   | 140993-001 |            |   |
| 36-10-5  | Screw 318 - 40 x 7   | 1    | 062660-712 | 36-13-12  | Spring               | 1                   | 140275-001 |            |   |
| 36-10-6  | Presser Foot (Front) | 1    | 144778-001 | 36-13-13  | Set Screw            | 1                   | 140992-001 |            |   |
| 36-10-7  | Screw 2.38           | 1    | 105288-001 |   |                      |                     |            |            |   |

E. Feed mechanism (1) / Transportvorrichtung (1)  
 Mécanisme de l'entraînement (1) / Mecanismo de la alimentación (1)



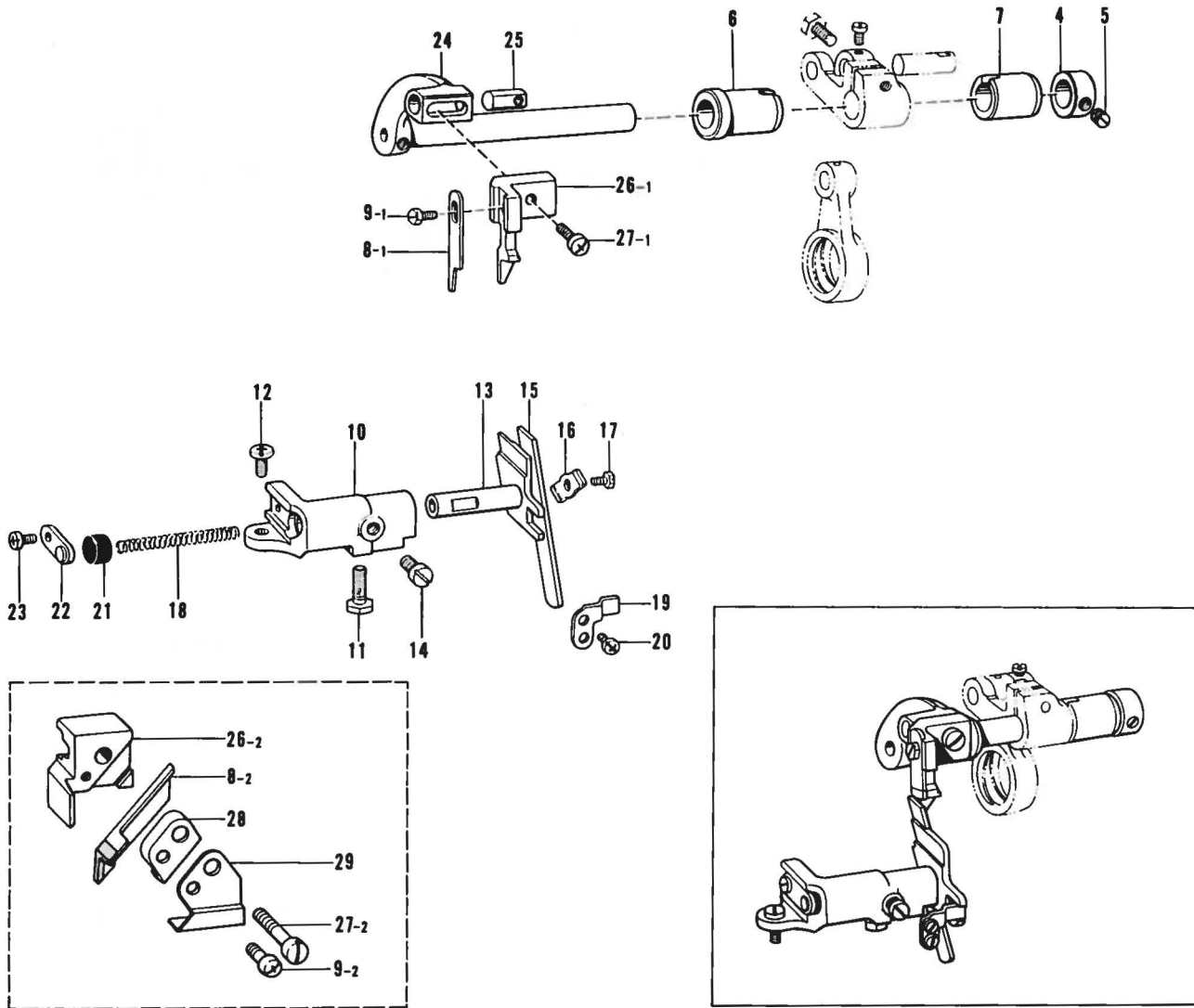
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|----------|----------------------------|------|------------|---|----------------------------------|-----------------------------------|------------|------------|--------------|
| 1- 1     | Feed Rod                   | 1    |            | E-1<br>Feed Rod<br>Assembly<br>148163-001 | 25                               | Indicator Plate                   | 1          | 148180-001 |              |
| 1- 2     | Feed Arm                   | 1    |            |   | 26                               | Pin                               | 2          | 116231-001 |              |
| 1- 3     | Feed Arm Pin               | 1    | 148166-001 |   | 27                               | Feed Link Shaft                   | 2          | 148181-001 |              |
| 1- 4     | Screw 4.37                 | 1    | 100366-001 |   | 28                               | Feed Link Indicator Plate (Right) | 1          | 148182-001 |              |
| 2        | Bolt 5.95 x 14             | 1    | 017761-412 | 29  | Feed Link Indicator Plate (Left) | 1                                 | 148183-001 |            |              |
| 3        | Feed Shaft                 | 1    | 148167-001 | 30  | Nut 4.76                         | 2                                 | 148838-001 |            |              |
| 4        | Feed Shaft Bushing (Left)  | 1    | 148168-000 | 31  | Washer                           | 2                                 | 148847-001 |            |              |
| 5        | Feed Shaft Bushing (Right) | 1    | 148169-000 | 32  | Feed Link                        | 1                                 | 148184-000 |            |              |
| 19       | Main Feed Arm              | 1    | 148177-001 | 33  | Feed Link Bushing                | 1                                 | 148185-001 |            |              |
| 20       | Bolt 5.95 x 14             | 1    | 017761-412 | 34  | Washer                           | 2                                 | 140208-001 |            |              |
| 21       | Indicator Plate            | 1    | 148178-001 | 35  | Bolt 4.76                        | 2                                 | 148186-001 |            |              |
| 22       | Pin                        | 2    | 116231-001 | 41  | Feed Link                        | 1                                 | 148403-001 |            |              |
| 23       | Differential Feed Arm      | 1    | 148179-001 | 42  | Feed Link Bushing                | 1                                 | 148404-001 |            |              |
| 24       | Bolt 5.95 x 14             | 1    | 017761-412 |   |                                  |                                   |            |            |              |

E. Feed mechanism (2) / Transportvorrichtung (2)  
 Mécanisme de l'entraînement (2) / Mecanismo de la alimentación (2)



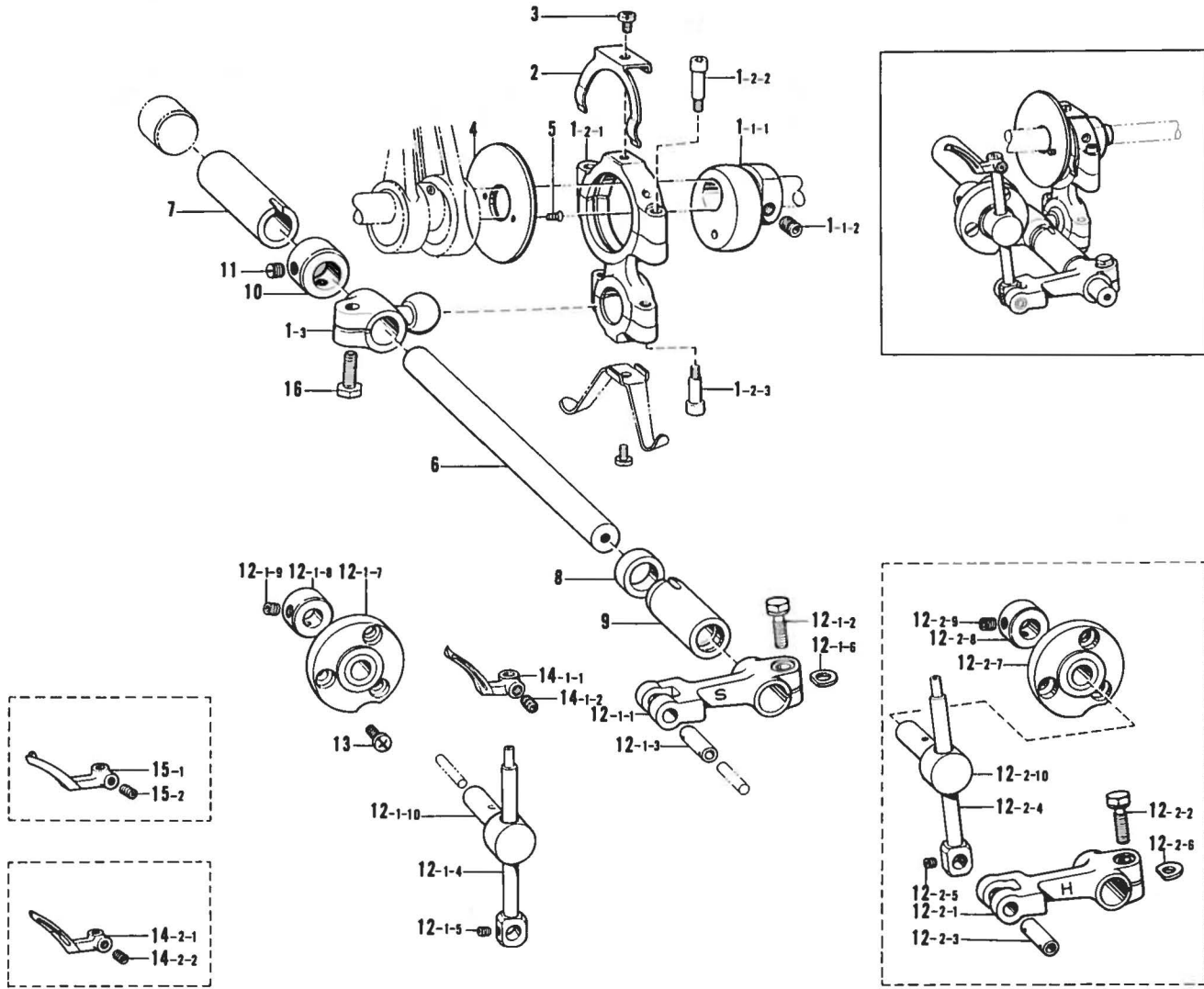
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|----------|----------------------------|------|------------|---|---------|------------------------------------|------|------------|--------------|
| 6- 1     | Main Feed Bar              | 1    |            | F-6<br>Feed Bar Guide<br>Block Assembly<br>148262-001 | 36      | Bolt 4.37                          | 2    | 117516-001 |              |
| 6- 2     | Differential Feed Bar      | 1    |            |   | 37      | Screw 238 - 56 x 8                 | 1    | 062630-812 |              |
| 6- 3     | Feed Lifting Slide Block   | 1    | 148173-000 |   | 38- 1   | Main Feed Dog                      | 1    | 146567-001 |              |
| 7        | Feed Bar Guide (Right)     | 1    | 148174-000 |   | 38- 2   | Main Feed Dog                      | 1    | 146568-001 |              |
| 8        | Washer                     | 2    | 100645-003 |   | 38- 3   | Main Feed Dog (Ruffling)           | 1    | S01781-001 |              |
| 9        | Screw 437 - 40 x 8         | 2    | 060680-812 |   | 38- 4   | Main Feed Dog (Ruffling)           | 1    | S01782-001 |              |
| 10       | Feed Bar Guide (Left)      | 1    | 148175-000 |   | 38- 5   | Main Feed Dog (Ruffling, W/Piping) | 1    | S01783-001 |              |
| 11       | Washer                     | 2    | 100645-003 |   | 38- 6   | Main Feed Dog (Ruffling, W/Piping) | 1    | S01784-001 |              |
| 12       | Screw 437 - 40 x 8         | 2    | 060680-812 |   | 38- 7   | Main Feed Dog (Ruffling, W/Piping) | 1    | S01785-001 |              |
| 13       | Feed Bar Guide Block       | 1    | 146547-000 |   | 38- 8   | Main Feed Dog (Denim)              | 1    | 146569-001 |              |
| 14       | Feed Bar Guide Block Shaft | 1    | 148176-001 |   | 39- 1   | Differential Feed Dog              | 1    | 146572-001 |              |
| 15       | Screw 6.35 x 6             | 1    | 014770-622 |   | 39- 2   | Differential Feed Dog              | 1    | 146573-001 |              |
| 16       | Slide Plate                | 1    | 146549-001 |   | 39- 3   | Differential Feed Dog (Ruffling)   | 1    | 146575-001 |              |
| 17       | Screw 437 - 40 x 7         | 1    | 062680-712 |   | 39- 4   | Differential Feed Dog (Ruffling)   | 1    | 146576-001 |              |
| 18- 1    | Set Collar                 | 1    |            | E-18<br>Collar Assembly<br>181995-001                 | 39- 5   | Differential Feed Dog (Denim)      | 1    | 146574-001 |              |
| 18- 2    | Screw 6.35                 | 2    | 101706-001 |   | 40- 1   | Chain Feed Dog                     | 1    | 146577-001 |              |
|          |                            |      |            |   | 40- 2   | Chain Feed Dog (Bulky, Ruffling)   | 1    | 148189-001 |              |

F. Knife mechanism / Messer  
 Mécanisme du couteau / Mecanismo del cuchilla



| Ref. No. | Name of Parts                       | Q'ty | Parts No.  | Assembly No. | Ref. No | Name of Parts                     | Q'ty | Parts No.  | Assembly No. |
|----------|-------------------------------------|------|------------|--------------|---------|-----------------------------------|------|------------|--------------|
| 4        | Set Collar                          | 1    | 146581-001 |              | 17      | Bolt 4.37                         | 1    | 117516-001 |              |
| 5        | Screw 5.95                          | 2    | 100260-001 |              | 18      | Spring                            | 1    | 146584-001 |              |
| 6        | Knife Driving Shaft Bushing (Left)  | 1    | 148196-000 |              | 19      | Lower Knife Holder Guide          | 1    | 146585-001 |              |
| 7        | Knife Driving Shaft Bushing (Right) | 1    | 148197-000 |              | 20      | Screw 357 - 40 x 6                | 2    | 062670-612 |              |
| 8- 1     | Upper Knife                         | 1    | 148198-001 |              | 21      | Cap                               | 1    | 146586-000 |              |
| 8- 2     | Upper Knife                         | 1    | 148342-001 |              | 22      | Lower Knife Holder Spring Stopper | 1    | 140248-001 |              |
| 9- 1     | Bolt 3.57                           | 1    | 144075-001 |              | 23      | Screw 437 - 40 x 7                | 1    | 062680-712 |              |
| 9- 2     | Screw 357 - 40 x 10                 | 1    | 062671-016 |              | 24      | Upper Knife Driving Arm           | 1    | 146580-001 |              |
| 10       | Lower Knife Holder Supporter        | 1    | 146582-001 |              | 25      | Nut                               | 1    | 148281-001 |              |
| 11       | Bolt 6.35 x 16                      | 1    | 017771-612 |              | 26- 1   | Upper Knife Holder                | 1    | 144179-001 |              |
| 12       | Screw 437 - 40 x 8                  | 1    | 060680-812 |              | 26- 2   | Upper Knife Holder                | 1    | 148345-001 |              |
| 13       | Lower Knife Holder                  | 1    | 146583-001 |              | 27- 1   | Screw 437 - 40 x 8                | 1    | 060680-812 |              |
| 14       | Screw 6.35                          | 1    | 102627-001 |              | 27- 2   | Screw 4.37                        | 1    | 102424-003 |              |
| 15       | Lower Knife                         | 1    | 112436-001 |              | 28      | Upper Knife Presser               | 1    | 148343-001 |              |
| 16       | Lower Knife Presser Plate           | 1    | 117515-001 |              | 29      | Presser Plate                     | 1    | 148344-001 |              |

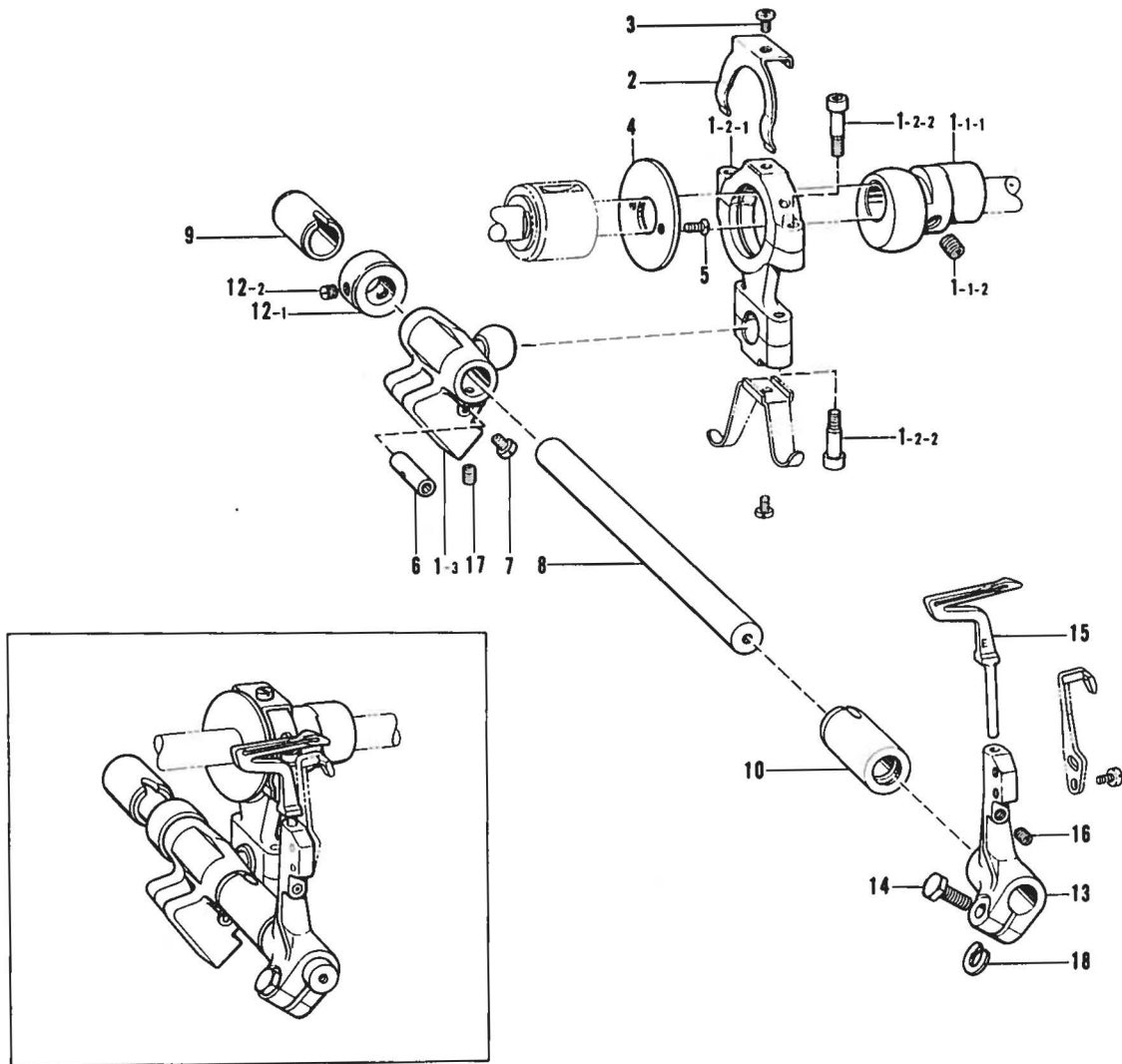
G. Over looper mechanism / Oberen Greifer  
 Mécanisme du boucleur supérieur / Mecanismo del presilladora superior



| Ref. No. | Name of Parts                           | Q'ty | Parts No.  | Assembly No.   | Ref. No. | Name of Parts                  | Q'ty | Parts No.  | Assembly No.   |                                     |
|----------|---|------|------------|--|----------|--------------------------------|------|------------|--|-------------------------------------|
| 1- 1- 1  | Over Looper Eccentric Cam               | 1    |            | G-1-1<br>Over Looper<br>Eccentric Cam<br>Assembly<br>181628-001    | 12- 1- 4 | Over Looper Holder             | 1    | 148213-101 | G-12-1<br>Over Looper<br>Assemble<br>148209-001<br>(Standard)  |                                     |
| 1- 1- 2  | Screw 6.35                              | 2    | 148857-001 |  | 12- 1- 5 | Screw 4.76                     | 1    | 013719-412 |  |                                     |
| 1- 2- 1  | Over Looper Connecting Rod              | 1    |            | G-1-2<br>Over Looper<br>Connecting Rod<br>With Screw<br>S01226-001 | 12- 1- 6 | Spacer                         | 1    | 148783-001 |  |                                     |
| 1- 2- 2  | Screw 4.37x18                           | 2    | 150382-001 |  | 12- 1- 7 | Over Looper Holder Guide Base  | 1    |            |  |                                     |
| 1- 2- 3  | Screw 4.37x14                           | 2    | 148425-001 |  | 12- 1- 8 | Set Collar                     | 1    |            |  |                                     |
| 1- 3     | Over Looper Connecting Lever            | 1    |            | G-1<br>Over Looper<br>Connecting Rod<br>Assembly<br>148200-001     | 12- 1- 9 | Screw 4.37                     | 2    | 014680-422 |  |                                     |
| 2        | Looper Connecting Rod Stopper           | 1    | 148204-001 |  | 12- 1-10 | Over Looper Holder Guide Block | 1    |            |  |                                     |
| 3        | Screw 357 - 40 x 5                      | 1    | 062670-512 |  | 12- 2- 1 | Over Looper Driving Lever      | 1    |            |  |                                     |
| 4        | Looper Connecting Rod Stopper Guide (R) | 1    | 148205-001 |  | 12- 2- 2 | Bolt 5.95 x 16                 | 1    | 149172-001 |  |                                     |
| 5        | Screw 3.57                              | 2    | 102843-004 |  | 12- 2- 3 | Over Looper Holder Pin         | 1    | 148212-001 |  |                                     |
| 6        | Over Looper Shaft                       | 1    | 148206-001 |  | 12- 2- 4 | Over Looper Holder             | 1    | 148213-101 | G-12-2<br>Over Looper<br>Assemble<br>148217-001<br>(High-lift) |                                     |
| 7        | Over Looper Shaft Bushing Back          | 1    | 148207-000 |  | 12- 2- 5 | Screw 4.76                     | 1    | 013719-412 |  |                                     |
| 8        | Thrust Collar                           | 1    | 148208-001 |  | 12- 2- 6 | Spacer                         | 1    | 148783-001 |  |                                     |
| 9        | Bushing                                 | 1    | 144031-000 |  | 12- 2- 7 | Over Looper Holder Guide Base  | 1    |            |  |                                     |
| 10       | Set Collar                              | 1    | 146581-001 |  | 12- 2- 8 | Set Collar                     | 1    |            |  |                                     |
| 11       | Screw 5.95                              | 2    | 100260-001 |  | 12- 2- 9 | Screw 4.37                     | 2    | 014680-422 |  |                                     |
| 12- 1- 1 | Over Looper Driving Lever               | 1    |            | G-12-1<br>148209-001<br>(Standard)                                 | 12- 2-10 | Over Looper Holder Guide Block | 1    |            |  |                                     |
| 12- 1- 2 | Bolt 5.95 x 16                          | 1    | 149172-001 |  | 13       | Screw 437 - 40 x 7             | 3    | 062680-712 |  |                                     |
| 12- 1- 3 | Over Looper Holder Pin                  | 1    | 148212-001 |  | 14- 1- 1 | Over Looper (Standard)         | 1    |            |  | G-14-1<br>Over Looper<br>147934-001 |
|          |   |      |            |  | 14- 1- 2 | Screw 4.37                     | 1    | 014680-422 |  | G-14-2<br>Over Looper<br>159686-001 |
|          |   |      |            |  | 14- 2- 1 | Over Looper (High-lift)        | 1    |            | G-15<br>Spreader<br>147935-001                                 |                                     |
|          |   |      |            |  | 14- 2- 2 | Screw 4.37                     | 1    | 014680-422 |  |                                     |
|          |   |      |            |  | 15- 1    | Spreader                       | 1    |            |  |                                     |
|          |   |      |            |  | 15- 2    | Screw 4.37                     | 1    | 014680-422 |  |                                     |
|          |   |      |            |  | 16       | Bolt 6.35x16                   | 1    | 017771-612 |  |                                     |

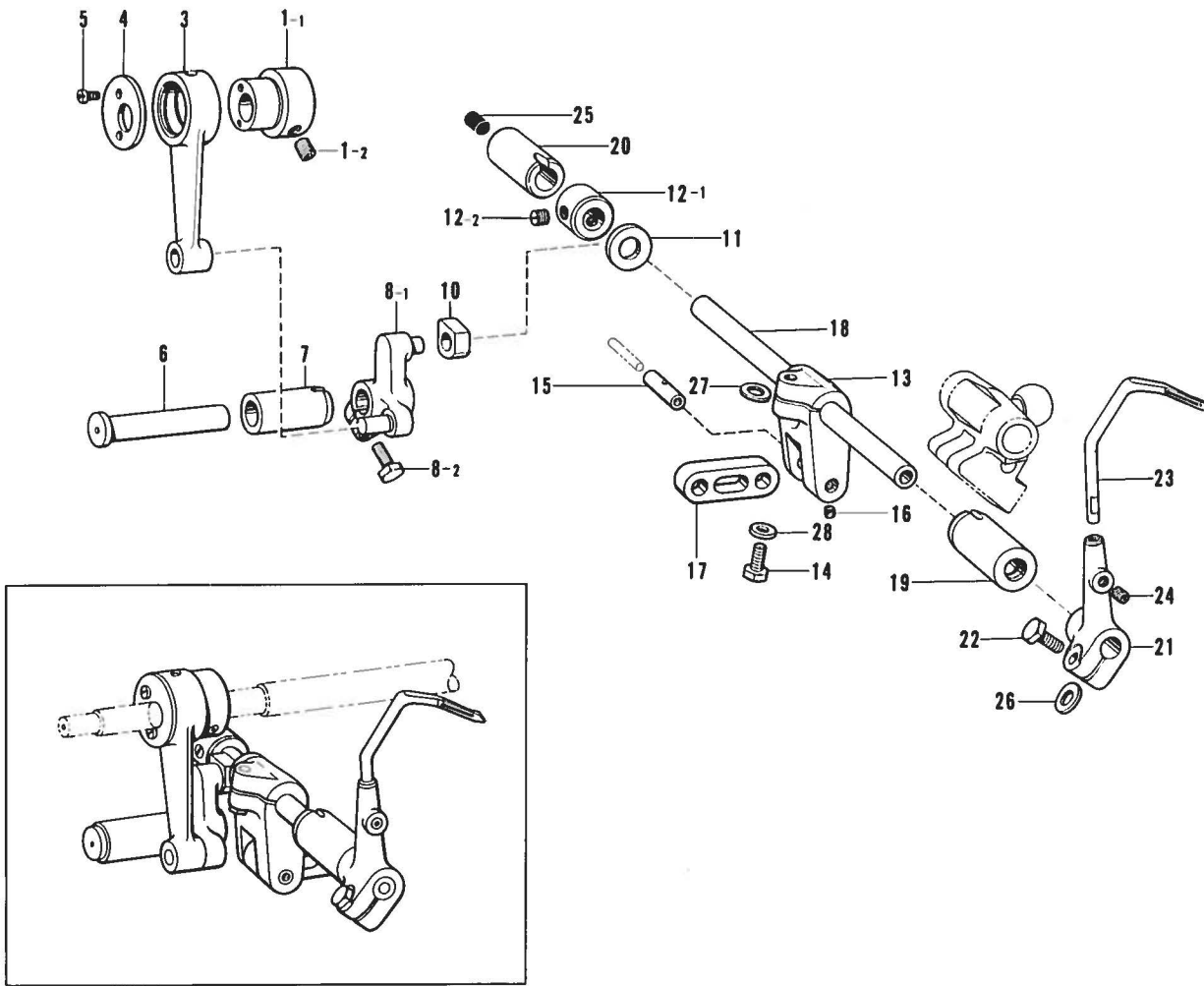


H. Under looper mechanism / Unterer Greifer  
 Mécanisme du boucleur inférieur / Mecanismo del presilladora inferior



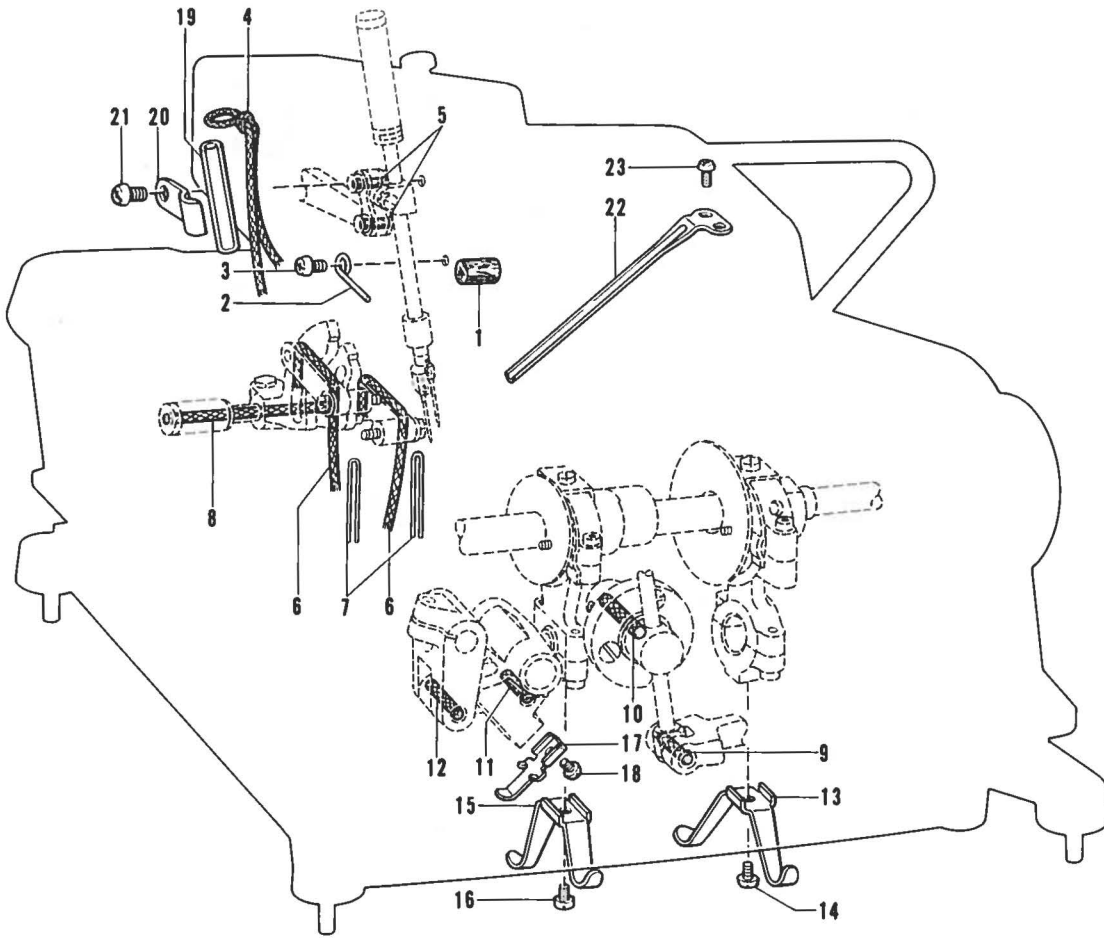
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|----------|---|------|------------|---|---------|------------------------------------|------|------------|---------------------------------------|
| 1- 1- 1  | Under Looper Eccentric Cam              | 1    |            | H-1-1<br>Under Looper<br>Eccentric Cam<br>Assembly<br>181629-001    | 5       | Screw 3.57                         | 2    | 102843-004 |                                       |
| 1- 1- 2  | Screw 6.35                              | 2    | 148857-001 |   | 6       | Under Looper Holder Pin            | 1    | 148232-001 |                                       |
| 1- 2- 1  | Under Looper Connecting Rod             | 1    |            | H-1-2<br>Under Looper<br>Connecting Rod<br>With Screw<br>S01227-001 | 7       | Screw 3.57                         | 1    | 144458-001 |                                       |
| 1- 2- 2  | Screw 4.37 x 14                         | 4    | 148425-001 |   | 8       | Under Looper Shaft                 | 1    | 148226-001 |                                       |
| 1- 3     | Under Looper Connecting Lever           | 1    |            | H-1<br>Under Looper<br>Connecting Rod<br>Assembly<br>148230-001     | 9       | Under Looper Shaft Bushing (Back)  | 1    | 148227-000 |                                       |
| 2        | Looper Connecting Rod Stopper           | 1    | 148224-001 |   | 10      | Under Looper Shaft Bushing (Front) | 1    | 148228-000 |                                       |
| 3        | Screw 357 - 40 x 5                      | 1    | 062670-512 |   | 12- 1   | Set Collar                         | 1    |            | H-12<br>Collar Assembly<br>180323-001 |
| 4        | Looper Connecting Rod Stopper Guide (L) | 1    | 148225-001 |   | 12- 2   | Screw 5.95                         | 2    | 013760-612 |                                       |
|          |   |      |            |   | 13      | Under Looper Holder                | 1    | 146617-001 |                                       |
|          |   |      |            |   | 14      | Bolt 5.56 x 14                     | 1    | 149171-001 |                                       |
|          |   |      |            |   | 15      | Under Looper                       | 1    | S01248-001 |                                       |
|          |   |      |            |   | 16      | Screw 4.37                         | 1    | 014680-422 |                                       |
|          |   |      |            |   | 17      | Screw 4.37                         | 2    | 014680-422 |                                       |
|          |   |      |            |   | 18      | Spacer                             | 1    | 148782-001 |                                       |

**J. Double chain stitch looper mechanism / Doppelkettenstichgreifer**  
**Mécanisme de boucleur pour point de chaînette double / Mecanismo del presilladora de doble cadeneta**



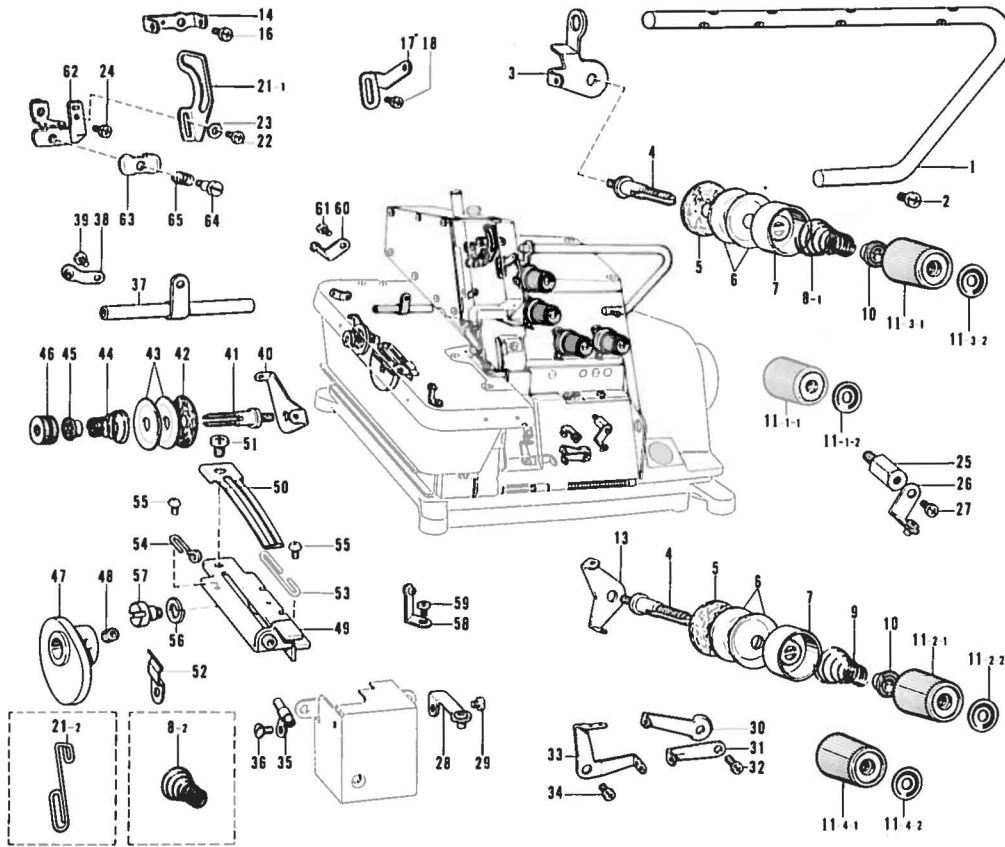
| Ref. No. | Name of Parts                         | Q'ty | Parts No.  | Assembly No.                                       | Ref. No. | Name of Parts                         | Q'ty | Parts No.  | Assembly No. |
|----------|---------------------------------------|------|------------|--|----------|---------------------------------------|------|------------|--------------|
| 1- 1     | Longitudinal Eccentric Cam            | 1    |            | J-1 Longitudinal Eccentric Cam Assembly 181657-001 | 13       | Chain Stitch Looper Driving Lever     | 1    | 148240-001 |              |
| 1- 2     | Screw 6.35                            | 2    | 148857-001 |  | 14       | Bolt 5.95 x 14                        | 1    | 017761-412 |              |
| 3        | Longitudinal Feed Driving Rod         | 1    | 148234-000 |  | 15       | Chain Stitch Looper Driving Lever Pin | 1    | 148241-001 |              |
| 4        | Driving Rod Presser Plate             | 1    | 148235-001 |  | 16       | Screw 3.18                            | 1    | 146427-001 |              |
| 5        | Screw 238 - 56 x 6                    | 2    | 062630-612 |  | 17       | Chain Stitch Looper Link              | 1    | 148242-001 |              |
| 6        | Longitudinal Feed Lever Shaft         | 1    | 148236-001 |  | 18       | Longitudinal Feed                     | 1    | 148243-001 |              |
| 7        | Longitudinal Feed Lever Shaft Bushing | 1    | 148237-000 |  | 19       | Bushing (Front)                       | 1    | 148244-000 |              |
| 8- 1     | Longitudinal Feed Lever               | 1    |            | J-8 Longitudinal Feed Lever With Screw 181668-001  | 20       | Bushing (Back)                        | 1    | 148245-000 |              |
| 8- 2     | Bolt 6.35 x 14                        | 1    | 017771-412 |  | 21       | Chain Stitch Looper Holder            | 1    | 146634-001 |              |
| 10       | Slide Block                           | 1    | 140313-001 |  | 22       | Bolt 5.56 x 14                        | 1    | 149171-001 |              |
| 11       | Thrust Collar                         | 1    | 148239-001 |  | 23       | Chain Stitch Looper                   | 1    | 146635-001 |              |
| 12- 1    | Set Collar                            | 1    |            | J-12 Collar Assembly 181995-001                    | 24       | Screw 4.37                            | 1    | 014680-422 |              |
| 12- 2    | Screw 6.35                            | 2    | 101706-001 |  | 25       | Oil Cap                               | 1    | 140327-001 |              |
|          |                                       |      |            |  | 26       | Spacer                                | 1    | 148782-001 |              |
|          |                                       |      |            |  | 27       | Washer 6                              | 1    | 025060-232 |              |
|          |                                       |      |            |  | 28       | Washer 6                              | 1    | 025060-132 |              |

K. Lubrication / Schmierung  
Lubrification / Lubricación



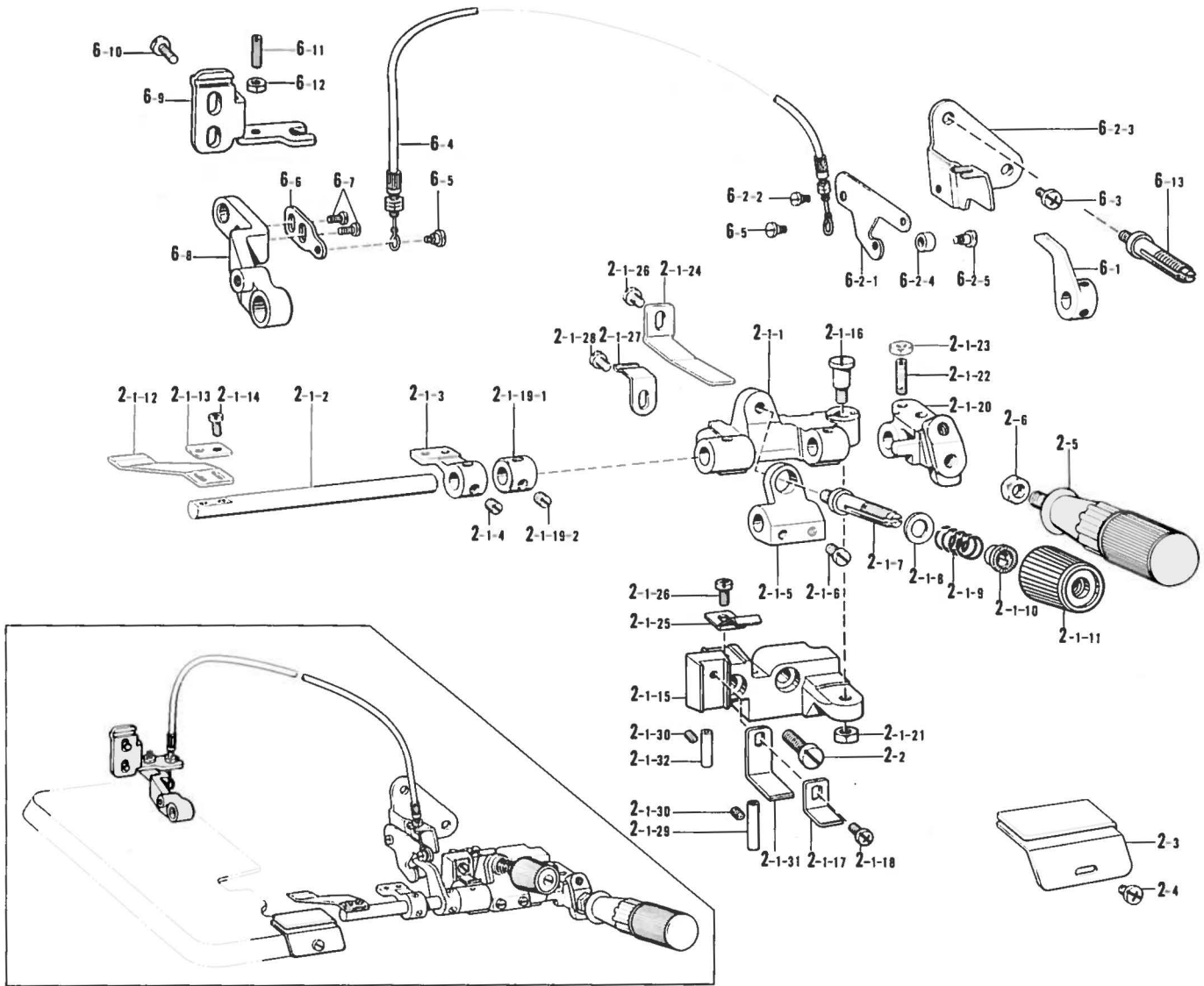
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|----------|--------------------|------|------------|--------------|----------|-----------------------|------|------------|--------------|
| 1        | Felt               | 1    | 112754-001 |              | 13       | Oil Jumping Plate (R) | 1    | 148250-001 |              |
| 2        | Felt Holder        | 1    | 148247-001 |              | 14       | Screw 357 - 40 x 5    | 1    | 062670-512 |              |
| 3        | Screw 437 - 40 x 7 | 1    | 062680-712 |              | 15       | Oil Jumping Plate (L) | 1    | 148251-001 |              |
| 4        | Wick               | 1    | 118768-001 |              | 16       | Screw 357 - 40 x 5    | 1    | 062670-512 |              |
| 5        | Felt               | 2    | 147691-000 |              | 17       | Oil Jumping Plate (D) | 1    | 148252-001 |              |
| 6        | Wick               | 2    | 142674-000 |              | 18       | Screw 357 - 40 x 5    | 1    | 062670-512 |              |
| 7        | Cap                | 2    | 140774-000 |              | 19       | Vinyl Tube            | 1    | 146644-000 |              |
| 8        | Wick               | 1    | 148248-000 |              | 20       | Tube Holder           | 1    | 148315-001 |              |
| 9        | Wick               | 1    | 108809-001 |              | 21       | Screw 437 - 40 x 7    | 1    | 062680-712 |              |
| 10       | Wick               | 1    | 148249-000 |              | 22       | Oil Guide             | 1    | 154288-001 |              |
| 11       | Wick               | 1    | 143444-001 |              | 23       | Screw 437 - 40 x 7    | 2    | 062680-712 |              |
| 12       | Wick               | 1    | 117591-001 |              |          |                       |      |            |              |

L. Thread tension / Fadernspannung  
Tension du fil / Tension del hilo



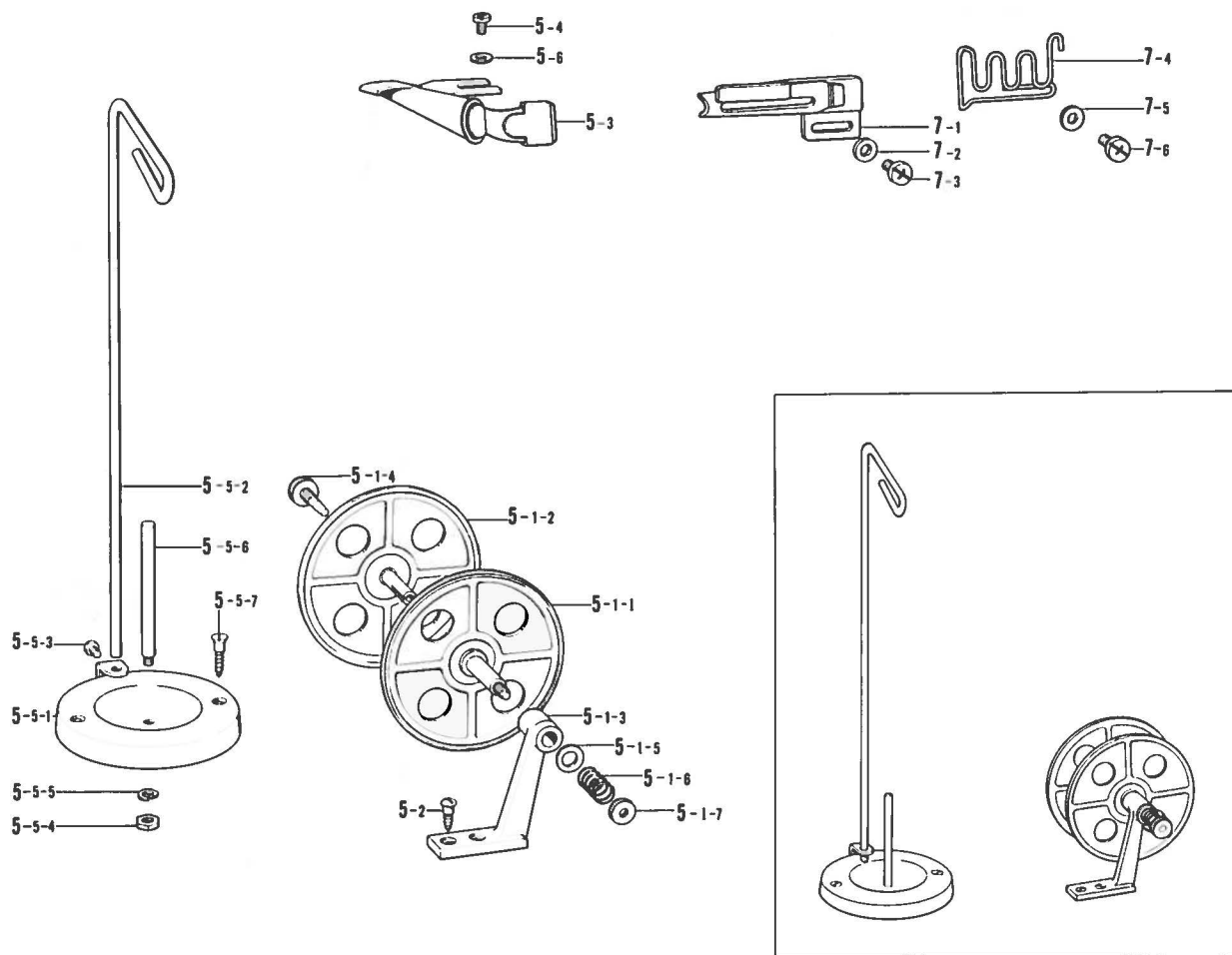
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|----------|------------------------------------|------|------------|---|---------|----------------------------------|------|------------|--------------|
| 1        | Main Thread Guide                  | 1    | 148253-001 |   | 27      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
| 2        | Screw 437 - 40 x 14                | 1    | 062681-412 |   | 28      | Over Lopper Thread Guide         | 1    | 146929-001 |              |
| 3        | Thread Guide Supporter             | 1    | 146649-001 |   | 29      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
| 4        | Looper Thread Tension Control Stud | 1    | 110820-101 |   | 30      | Over Looper Thread Take-up (R)   | 1    | 146652-001 |              |
| 5        | Felt                               | 4    | 110832-001 |   | 31      | Under Looper Thread Take-up (R)  | 1    | 146653-001 |              |
| 6        | Tension Disc                       | 8    | 145446-001 |   | 32      | Screw 357 - 40 x 8               | 1    | 062670-812 |              |
| 7        | Presser For Tension Disc           | 4    | 144103-002 |   | 33      | Looper Thread Take-up (L)        | 1    | 146654-001 |              |
| 8- 1     | Spring                             | 2    | 144104-001 |   | 34      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
| 8- 2     | Spring                             | 2    | 148851-001 |   | 35      | Over Looper Thread Guide         | 1    | 142669-002 |              |
| 9        | Spring                             | 2    | 144110-001 |   | 36      | Screw 2.38                       | 1    | 100105-005 |              |
| 10       | Tension Spring Washer              | 4    | 144105-000 |   | 37      | Over Looper Thread Guide         | 1    | 148256-001 |              |
| 11- 1- 1 | Thread Tension Control Nut         | 1    | 149566-001 | L-11-1<br>Thread Tension<br>Control Nut<br>Assembly<br>149568-001 | 38      | Chain Stitch Looper Thread Guide | 1    | 151617-001 |              |
| 11- 1- 2 | Tension Indicating Plate           | 1    | 147049-001 |   | 39      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
| 11- 2- 1 | Thread Tension Control Nut         | 1    | 149566-001 | L-11-2<br>Thread Tension<br>Control Nut<br>Assembly<br>149568-002 | 40      | Needle Thread Guide Plate        | 1    | 110813-001 |              |
| 11- 2- 2 | Tension Indicating Plate           | 1    | 147049-002 |   | 41      | Thread Tension Control Stud      | 1    | 147148-001 |              |
| 11- 3- 1 | Thread Tension Control Nut         | 1    | 149566-001 | L-11-3<br>Thread Tension<br>Control Nut<br>Assembly<br>149568-003 | 42      | Felt                             | 1    | 110832-001 |              |
| 11- 3- 2 | Tension Indicating Plate           | 1    | 147049-003 |   | 43      | Tension Disc                     | 2    | 145446-001 |              |
| 11- 4- 1 | Thread Tension Control Nut         | 1    | 149566-001 | L-11-4<br>Thread Tension<br>Control Nut<br>Assembly<br>149568-004 | 44      | Spring                           | 1    | 147149-001 |              |
| 11- 4- 2 | Tension Indicating Plate           | 1    | 147049-004 |   | 45      | Tension Spring Washer            | 1    | 144105-000 |              |
| 13       | Needle Thread Guide Plate          | 3    | 110813-001 |   | 46      | Nut                              | 1    | 151012-001 |              |
| 14       | Needle Thread Guide Plate (A)      | 1    | 143757-001 |   | 47      | Chain Stitch Looper Take-up      | 1    | 150807-101 |              |
| 16       | Screw 357 - 40 x 8                 | 1    | 062670-812 |   | 48      | Screw 4.37                       | 2    | 014680-422 |              |
| 17       | Chain Stitch Needle Thread Guide   | 1    | 148255-001 |   | 49      | Chain Stitch Base Plate Assembly | 1    | 150808-001 |              |
| 18       | Screw 357 - 40 x 8                 | 1    | 062670-812 |   | 50      | Thread Handler                   | 1    | 150810-001 |              |
| 21- 1    | Needle Thread Take-up              | 1    | 144108-001 |   | 51      | Screw 357 - 40 x 4               | 1    | 062670-412 |              |
| 21- 2    | Needle Thread Take-up              | 1    | 142201-001 |   | 52      | Spring                           | 1    | 150813-001 |              |
| 22       | Screw 318 - 40 x 8                 | 1    | 062660-412 |   | 53      | Thread Guide (R)                 | 1    | 146663-001 |              |
| 23       | Washer                             | 1    | 105248-003 |   | 54      | Thread Guide (L)                 | 1    | 150811-001 |              |
| 24       | Screw 357 - 40 x 5                 | 1    | 062670-512 |   | 55      | Screw 238 - 56 x 4               | 2    | 060630-412 |              |
| 25       | Thread Guide Holder                | 1    | 148254-001 |   | 56      | Spring Washer 2 - 5              | 1    | 028050-242 |              |
| 26       | Under Looper Thread Guide          | 1    | 146926-002 |   | 57      | Stud Screw 4.37                  | 1    | 150812-001 |              |
|          |                                    |      |            |   | 58      | Under Looper Thread Guide        | 1    | 146930-001 |              |
|          |                                    |      |            |   | 59      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
|          |                                    |      |            |   | 60      | Under Looper Thread Guide        | 1    | 146926-001 |              |
|          |                                    |      |            |   | 61      | Screw 357 - 40 x 6               | 1    | 062670-612 |              |
|          |                                    |      |            |   | 62      | Needle Thread Take-up Supporter  | 1    | 147344-001 |              |
|          |                                    |      |            |   | 63      | Needle Thread Guard              | 1    | 112300-001 |              |
|          |                                    |      |            |   | 64      | Stud Screw 3.18                  | 1    | 112301-001 |              |
|          |                                    |      |            |   | 65      | Needle Thread Guard Spring       | 1    | 112299-001 |              |

**M. Ruffling Attachment (1) / Kräuselvorrichtung (1)**  
**Accessoire pour fronces (1) / Accesorio de fruncido (1)**



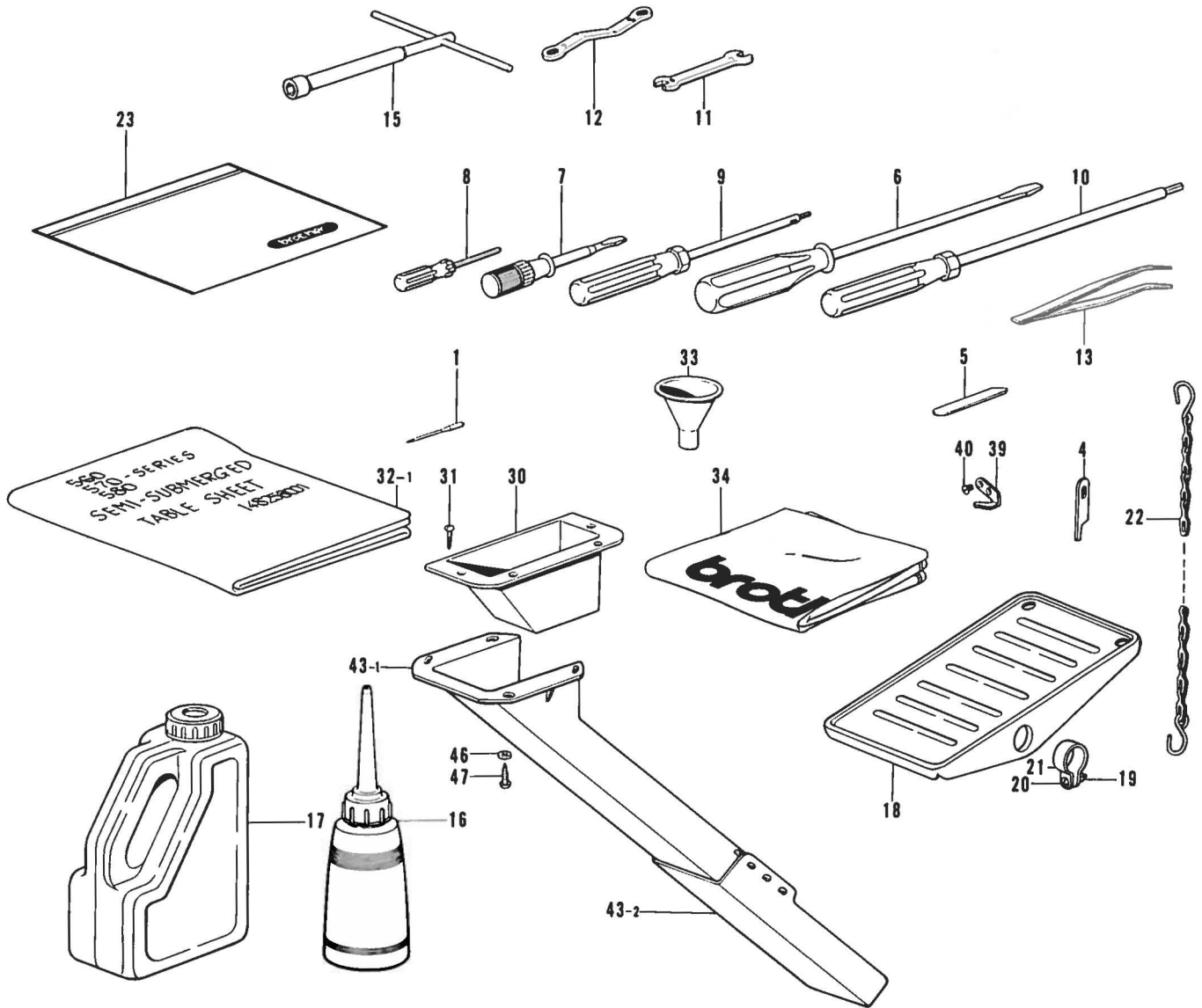
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|----------|------------------------------------|------|------------|---|-----------------------------|-------------------------------------|------------|--|---|---|
| 2- 1- 1  | Bracket For Ruffling Blade         | 1    | 146588-001 | M-2-1<br>Ruffling<br>Attachment<br>Assembly<br>146587-201 | 2- 1-28                     | Screw 357 - 40 x 5                  | 1          | 060670-512   | M-2-1<br>Ruffling<br>Attachment<br>Assembly<br>146587-201 |   |
| 2- 1- 2  | Ruffling Blade Base Shaft          | 1    | 145803-001 |   | 2- 1-29                     | Thread Guide Pipe                   | 1          | 146592-000   |   |   |
| 2- 1- 3  | Wrapper Base                       | 1    | 146589-001 |   | 2- 1-30                     | Screw 3.57                          | 2          | 013679-412   |   |   |
| 2- 1- 4  | Screw 6.35                         | 2    | 101706-001 |   | 2- 1-31                     | Ruffling Blade Guide Plate (D)      | 1          | 154795-001   |   |   |
| 2- 1- 5  | Spring Base                        | 1    | 146590-001 |   | 2- 1-32                     | Thread Guide Pipe                   | 1          | S01614-001   |   |   |
| 2- 1- 6  | Screw 5.95                         | 2    | 105163-001 |   | 2- 2                        | Screw 6.35 x 18                     | 2          | S01304-001   |   |   |
| 2- 1- 7  | Looper Thread Tension Control Stud | 1    | 110820-101 |   | 2- 3                        | Ruffler Guide                       | 1          | 144793-000   |   |   |
| 2- 1- 8  | Washer 6.35                        | 1    | 025770-232 |   | 2- 4                        | Screw 357 - 40 x 6                  | 1          | 060670-616   |   |   |
| 2- 1- 9  | Spring                             | 1    | 144788-001 |   | 2- 5                        | Handle                              | 1          | 145809-001   |   |   |
| 2- 1-10  | Tension Spring Washer              | 1    | 144105-000 |   | 2- 6                        | Nut 6.35                            | 1          | 150556-002   |   |   |
| 2- 1-11  | Tension Nut                        | 1    | 149566-001 |   | 6- 1                        | Ruffling Plate Lifter               | 1          | 148387-001   |   | M-6-2<br>Ruffling Plate<br>Lifter Lever<br>Assembly<br>148395-001 |
| 2- 1-12  | Ruffling Blade                     | 1    | 144783-001 |   | 6- 2- 1                     | Ruffling Plate Lifter Lever         | 1          | 148388-001   |   |   |
| 2- 1-13  | Washer                             | 1    | 144784-001 |   | 6- 2- 2                     | Screw                               | 1          | 141514-001   |   |   |
| 2- 1-14  | Screw 318 - 40 x 7                 | 2    | 062660-712 |   | 6- 2- 3                     | Presser Foot Lifter Lever Supporter | 1          | 148389-001   |   |   |
| 2- 1-15  | Ruffler Base                       | 1    |            |   | 6- 2- 4                     | Roller                              | 1          | 148390-001   |   |   |
| 2- 1-16  | Stud Screw 5.95                    | 1    | 147933-001 | 6- 2- 5   | Stud Screw 3.18             | 1                                   | 112301-001 |  |   |   |
| 2- 1-17  | Ruffling Blade Guide               | 1    | 145807-001 | 6- 3  | Screw 437 - 40 x 8          | 1                                   | 062680-812 | M-6<br>Ruffler<br>Interlocking Parts<br>Assembly<br>149252-002 |   |   |
| 2- 1-18  | Screw 437 - 40 x 8                 | 1    | 062680-812 | 6- 4  | Flexible Wire Assembly      | 1                                   | 149253-001 |  |   |   |
| 2-1-19-1 | Set Collar                         | 1    |            | 6- 5  | Screw                       | 2                                   | 141514-001 |  |   |   |
| 2-1-19-2 | Screw 6.35                         | 2    | 101706-001 | 6- 6  | Wire Plate                  | 1                                   | 149255-001 |  |   |   |
| 2- 1-20  | Handle Fixing Plate                | 1    | 145810-001 | 6- 7  | Screw 357 - 40 x 6          | 2                                   | 062670-612 |  |   |   |
| 2- 1-21  | Nut 5.95                           | 1    | 150553-002 | 6- 8  | Presser Foot Lifter Lever   | 1                                   | 149256-001 |  |   |   |
| 2- 1-22  | Screw 4.37                         | 1    | 110230-001 | 6- 9  | Lever Adjusting Plate       | 1                                   | 151614-001 |  |   |   |
| 2- 1-23  | Nut 4.37                           | 1    | 105234-003 | 6-10  | Screw 594 - 28 x 10         | 2                                   | 062761-012 |  |   |   |
| 2- 1-24  | Spring Plate                       | 1    | 145811-001 | 6-11  | Screw 4.76                  | 1                                   | 153483-001 |  |   |   |
| 2- 1-25  | Spring Plate                       | 1    | 145808-001 | 6-12  | Nut 4.76                    | 1                                   | 110161-006 |  |   |   |
| 2- 1-26  | Screw 437 - 40 x 6                 | 2    | 062680-612 | 6-13  | Thread Tension Control Stud | 2                                   | 159574-001 |  |   |   |
| 2- 1-27  | Spring                             | 1    | 144764-001 |   |                             |                                     |            |  |   |   |

M. Ruffling Attachment (2) / Kräuselvorrichtung (2)  
 Accessoire pour fronces (2) / Accesorio de fruncido (2)



| Ref. No. | Name of Parts         | Q'ty | Parts No.  | Assembly No.                                   | Ref. No.           | Name of Parts       | Q'ty       | Parts No.  | Assembly No.                        |
|----------|-----------------------|------|------------|--|--------------------|---------------------|------------|------------|-------------------------------------|
| 5- 1- 1  | Tape Winder Wheel (R) | 1    |            | M-5-1<br>Tape Winder<br>Assembly<br>143767-002 | 5- 5- 3            | Screw 3.18          | 1          | 100080-004 | M-5-5<br>Cotton Stand<br>181031-001 |
| 5- 1- 2  | Tape Winder Wheel (L) | 1    |            |  | 5- 5- 4            | Nut 4.76            | 1          | 110161-003 |                                     |
| 5- 1- 3  | Tape Winder Bracket   | 1    |            |  | 5- 5- 5            | Spring Washer 2 - 5 | 1          | 028050-242 |                                     |
| 5- 1- 4  | Screw                 | 1    | 143980-001 |  | 5- 5- 6            | Spool Stud          | 1          | 100444-002 |                                     |
| 5- 1- 5  | Washer                | 1    | 108494-001 |  | 5- 5- 7            | Screw 4.5 x 32      | 2          | 100447-001 |                                     |
| 5- 1- 6  | Spring                | 1    | 108495-001 |  | 5- 6               | Washer              | 2          | 110735-002 |                                     |
| 5- 1- 7  | Tension Control Nut   | 1    | 100136-001 |  | 7- 1               | Wrappee Assembly    | 1          | 147373-000 |                                     |
| 5- 2     | Screw 4.5 x 20        | 2    | 101118-001 | 7- 2   | Washer             | 2                   | 105161-004 |            |                                     |
| 5- 3     | Wrapper Assembly      | 1    | 147440-000 | 7- 3   | Screw 357 - 40 x 5 | 2                   | 062670-512 |            |                                     |
| 5- 4     | Screw 437 - 40 x 6    | 2    | 062680-612 | 7- 4   | Tape Guide         | 1                   | 147377-001 |            |                                     |
| 5- 5- 1  | Spool Disk            | 1    | 109852-001 | 7- 5   | Washer 3.5         | 2                   | 025350-332 |            |                                     |
| 5- 5- 2  | Thread Guide Stud     | 1    | 109853-001 | 7- 6   | Screw 357 - 40 x 5 | 2                   | 062670-512 |            |                                     |

Z. Accessories (1) / Zubehör (1)  
 Accessoires (1) / Accesorios (1)



| Ref. No. | Name of Parts          | Q'ty | Parts No.  | Assembly No. | Ref. No | Name of Parts    | Q'ty | Parts No.  | Assembly No.                                   |
|----------|------------------------|------|------------|--------------|---------|------------------|------|------------|--|
| 1        | Needle                 | 4    |            |              | 20      | Screw 4 x 14     | 2    | 001401-406 |  |
| 4        | Upper Knife            | 1    | 148198-001 |              | 21      | Pedal Stopper    | 2    | 116016-001 |  |
| 5        | Lower Knife            | 1    | 112436-001 |              | 22      | Chain Assembly   | 1    | 142262-001 |  |
| 6        | Screw Driver 5.5 x 190 | 1    | 101572-101 |              | 23      | Vinyl Bag        | 1    | 122991-001 |  |
| 7        | Screw Driver 3.4 x 70  | 1    | 118837-001 |              | 30      | Duster Drop      | 1    | 148430-101 |  |
| 8        | Screw Driver 1.6       | 1    | 144124-001 |              | 31      | Screw 3.1 x 13   | 4    | 031311-302 |  |
| 9        | Driver Wrench 2        | 1    | 146700-001 |              | 32- 1   | Table Sheet      | 1    | 148258-001 |  |
| 10       | Screw Driver 3         | 1    | 149173-001 |              | 33      | Funnel           | 1    | 140759-000 |  |
| 11       | Spanner 6 x 7          | 1    | 107779-001 |              | 34      | Head Cover       | 1    | 144225-002 |  |
| 12       | Wrench 8 x 9           | 1    | 105343-001 |              | 39      | Trimming Knife   | 1    | 148259-001 |  |
| 13       | Tweezers               | 1    | 117466-000 |              | 40      | Screw 3,18       | 2    | 141542-001 |  |
| 15       | Wrench                 | 1    | 140342-001 |              | 43- 1   | Duster Shoot (L) | 1    | 148431-101 | Z-43<br>Duster Shoot<br>Assembly<br>183161-101 |
| 16       | Oiler                  | 1    | 114483-002 |              | 43- 2   | Duster Shoot (S) | 1    | 148432-001 |  |
| 17       | Oil Tank               | 1    | 154702-002 |              | 46      | Washer 4.37      | 4    | 025680-232 |  |
| 18       | Treadle Pedal          | 1    | 147893-002 |              | 47      | Screw 4.5 x 16   | 4    | 031451-603 |  |
| 19       | Nut 4                  | 2    | 021400-106 |              |         |                  |      |            |  |






\* The details of included accessories are subject to change.  
 \* Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.






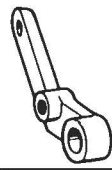
\* Les détails des accessoires inclus sont sujets à des changements.  
 \* Los detalles de los accesorios incluidos pueden variar.












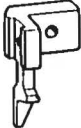






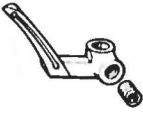






DIFFERENT PARTS LIST / ZUBEHÖRLISTE  
 LISTE DES PIECES ACCESSOIRES / LISTA DE PIEZAS ACCESORIAS



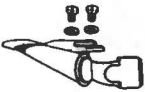

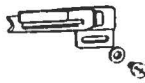
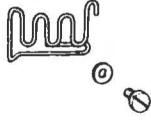
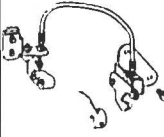
| Ref. No.          |                        | A-33  | A-37  | A-72  | A-73   | A-74  |            |
|-------------------|------------------------|---|---|---|--|---|------------|
| Sub Class         | Specifications         | Front Cover Assembly<br> | Supporter for Front Cover Assembly<br> | Oil Cap<br> | Threading Diagram<br> | Screw 5.95<br> |            |
| 061-2<br>-3<br>-4 | Thin                   | 148987-001  | 146444-001  | 143196-001  | 148104-001   | 013760-612  |            |
| 062-3             | Thin                   |   |   |   | 148105-001   |   |            |
| 063-3<br>-4<br>-5 | Thin,<br>medium        |   |   |   | 148104-001   |   |            |
| 064-5             | Thin,<br>medium        |   |   |   | 148105-001   |   |            |
| 065-5             | Thick                  |   |   |   |  |   |            |
| 067-4             | Ruffling               |   |   |   |  |   |            |
| 069-5             | Ruffling               |   |   |   |  |   |            |
| 071-6             | Ruffling               |   |   |   |  |   |            |
| 073-4             | Ruffling<br>(W/Piping) |   |   |   |  |   |            |
| 075-5             | Ruffling<br>(W/Piping) |   |   |   |  |   |            |
| 077-6             | Ruffling<br>(W/Piping) |   |   |   |  |   | 148104-001 |
| 081-3<br>-5       | Taping                 |   |   |   |  |   |            |
| 083-5             | Taping                 |   |   |   |  |   |            |
| 087-6             | Denim                  |   |   |   |  |   |            |
| 089-5             | Binding                | 148989-001  | 147367-001  |   |  |   |            |
| 092-6             | Denim                  | 148987-001  | 146444-001  |   |  |   |            |



| Ref. No.  | A-92                 | A-94   | C-20   | C-21/C-22  | C-34   | C-35/C-36  | D-19   |            |
|-----------|----------------------|--|--|--|--|--|--|------------|
| Sub Class | Label<br><b>061-</b> | Label<br> | Needle Clamp Assembly<br> | Needle DC x 1 DM x 13<br> | Needle Plate<br> | Chain Stitch Guide (F) Screw 2.38<br> | Presser Foot Lifter Lever<br> |            |
| 061-2     | 146976-081           | 147943-001   | 146487-001   | 112297-011<br>140104-011   | 148280-001   | /  | /  |            |
| -3        | 146976-001           |  |  |  | 146498-001   |  |  |            |
| -4        | 146976-002           |  |  |  | 146499-001   |  |  |            |
| 062-3     | 146976-004           | /  |  |  | 146498-001   | /  |  |            |
| 063-3     | 146976-007           | 147943-001   | 146489-001   | 112297-014<br>140104-014   | 146501-001   | /  | 148143-001   |            |
| -4        | 146976-008           |  |  |  | 146502-001   |  |  |            |
| -5        | 146976-009           |  |  |  | 146503-001   |  |  |            |
| 064-5     | 146976-012           | /  |  |  |  | /  |  |            |
| 065-5     | 146976-013           | 147943-001   | 146491-001   | 112297-016<br>140104-016   | 146504-001   | /  |  |            |
| 067-4     | 146976-019           |  | 146487-001   |  | S01770-001   | /  |  |            |
| 069-5     | 146976-021           |  | 146489-001   |  | S01773-001   | /  |  |            |
| 071-6     | 146976-023           |  | 146491-001   |  | S01775-001   | /  |  |            |
| 073-4     | 146976-025           |  | 146487-001   | 112297-014<br>140104-014   | S01770-001   | /  | M-6-8<br>149256-001  |            |
| 075-5     | 146976-027           |  | 146489-001   |  | S01773-001   | /  |  |            |
| 077-6     | 146976-029           |  | 146491-001   |  | S01775-001   | /  |  |            |
| 081-3     | 146976-037           |  | 146489-001   | 146489-001   |  | 146501-001   | /  |            |
| -5        | 146976-039           |  |  |  |  | 146503-001   |  |            |
| 083-5     | 146976-043           |  | 147943-001   | 146491-001   | 112297-016<br>140104-016   | 146504-001   | /  | 148143-001 |
| 087-6     | 146976-051           | 112297-018<br>140104-018   |  |  | 159770-001   | 159757-001<br>100105-005   |  |            |
| 089-5     | 146976-069           | 146489-001   |  | 112297-014<br>140104-014   | 147369-001   | /  |  |            |
| 092-6     | 146976-090           | 146491-001   |  | 112297-018<br>140104-018   | 159770-001   | 159757-001<br>100105-005   |  |            |

| Ref. No.          | D-34/D-35  | D-36   | D-37  | D-39/D-40  | E-38  | E-39   | E-40  |
|-------------------|--|--|---|--|---|--|---|
| Sub Class         | Tape Guide Screw 318-40x4<br> | Presser Foot Assembly<br> | Spring Plate<br> | Trimming Knife Screw 3.18<br> | Main Feed Dog<br> | Differential Feed Dog<br> | Chain Feed Dog<br> |
| 061-2<br>-3<br>-4 |  | 148155-001   |   |  |   |  |   |
| 062-3             |  |  |   |  | 146567-001  | 146572-001   |   |
| 063-3<br>-4<br>-5 |  | 148150-101   |   |  |   |  | 146577-001  |
| 064-5             |  |  |   |  |   |  |   |
| 065-5             |  | 148153-101   |   |  | 146568-001  | 146573-001   |   |
| 067-4             |  | 148158-001   |   |  | S01781-001  | 146575-001   |   |
| 069-5             |  | 148160-001   |   |  |   |  |   |
| 071-6             |  | 148161-001   |   |  | S01782-001  | 146576-001   |   |
| 073-4             |  | 148747-001   |   |  | S01783-001  | 146575-001   | 148189-001  |
| 075-5             |  | 148748-001   |   |  | S01784-001  |  |   |
| 077-6             |  | 148749-001   |   |  | S01785-001  | 146576-001   |   |
| 081-3<br>-5       | 146883-001<br>062660-412   | 148162-101   |   |  | 146567-001  | 146572-001   |   |
| 083-5             |  | 149918-001   |   |  | 146568-001  | 146573-001   | 146577-001  |
| 087-6             |  | 148260-101   | 156448-001  | 148259-001<br>141542-001   | 146569-001  | 146574-001   |   |
| 089-5             |  | 148263-101   |   |  | 146567-001  | 146572-001   |   |
| 092-6             |  | 148260-101   | 156448-001  | 148259-001<br>141542-001   | 146569-001  | 146574-001   |   |

| Ref. No. | F-8  | F-9   | F-26   | F-27  | F-28   | F-29  | G-12   |  |  |  |  |  |            |
|----------|--|---|--|---|--|---|--|--|--|--|--|--|------------|
|          | Upper Knife<br> | Bolt 3.57<br>Screw 357-40x10<br> | Upper Knife<br>Holder<br> | Screw 437-40x8<br>Screw 4.37<br> | Upper Knife<br>Presser<br> | Upper Knife<br>Presser Plate<br> | Over Looper<br>Assembly<br> |  |  |  |  |  |            |
| 061-2    | 148198-001   | 144075-001  | 144179-001   | 060680-812  |  |   |  |  |  |  |  |  |            |
| -3       |  |   |  |   |  |   |  |  |  |  |  |  |            |
| -4       |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 062-3    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 063-3    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| -4       |  |   |  |   |  |   |  |  |  |  |  |  |            |
| -5       |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 064-5    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 065-5    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 067-4    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 069-5    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 071-6    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 073-4    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 075-5    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 077-6    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 081-3    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| -5       |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 083-5    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 087-6    |  |   |  |   |  |   |  |  |  |  |  |  |            |
| 089-5    |  |   |  |   |  |   |  |  |  |  |  |  | 148209-001 |
| 092-6    | 148342-001   | 062671-016  | 148345-001   | 102424-003  | 148343-001   | 148344-001  | 148217-001   |  |  |  |  |  |            |

| Ref. No. | G-14   | G-15  | L-4  | L-8   | L-21  | M-2-1/M-2-2   | M-2-3/M-2-4   |   |   |   |   |   |   |   |
|----------|--|---|--|---|---|---|---|---|---|---|---|---|---|---|
|          | Over Looper<br> | Spreader<br> | Thread Tension Control Stud<br> | Spring<br> | Needle Thread Take-up<br> | Ruffling Attachment Assembly Screw 6.35x18<br> | Ruffler Guide Screw 357-40x6<br> |   |   |   |   |   |   |   |
| 061-2    | 147934-001   | /   | /  | /   | /   | /   | /   |   |   |   |   |   |   |   |
| -3       |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| -4       |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 062-3    | /  | 147935-001  | 110820-101<br>(Q'ty 4)   | /   | 142201-001  | /   | /   |   |   |   |   |   |   |   |
| 063-3    | 147934-001   | /   |  |   | /   |   |   | / | / | / |   |   |   |   |
| -4       |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| -5       |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 064-5    | /  | 147935-001  | 110820-101<br>(Q'ty 2)<br>M-6-13<br>159574-001<br>(Q'ty 2)   | /   | 142201-001  | /   | /   |   |   |   |   |   |   |   |
| 065-5    | 147934-001   | /   |  |   | /   |   |   | / | / | / | / |   |   |   |
| 067-4    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 069-5    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 071-6    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 073-4    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 075-5    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 077-6    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 081-3    |  |   | /  | /   |   | /   | /   |   |   |   |   | / | / | / |
| -5       |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 083-5    |  |   |  |   |   |   |   |   |   |   |   |   |   |   |
| 087-6    | 159686-001   | /   | 110820-101<br>(Q'ty 4)   | 148851-001  | /   | /   | /   |   |   |   |   |   |   |   |
| 089-5    | 147934-001   |   | 144104-001   |   |   |   |   |   |   |   |   |   |   |   |
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| Sub Class         | Needle<br>DC x 1<br>DM x 13<br> | Trimming Knife<br>Screw 3.18<br> |  |  |  |  |  |
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| 063-3<br>-4<br>-5 | 112297-014<br>140104-014   |   |  |  |  |  |  |
| 064-5             | 112297-016<br>140104-016   |   |  |  |  |  |  |
| 065-5             |  | 148259-001<br>141542-001  |  |  |  |  |  |
| 067-4             |  |   |  |  |  |  |  |
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| 073-4             | 112297-014<br>140104-014   |   |  |  |  |  |  |
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|            | D- 36- 9-12 |        |            | D- 36-10- 4 |        | 146580-001 | F- 24       |        | 146976-069 | A- 92       |        |
|            | D- 36-10-12 |        |            | D- 36-11- 4 |        | 146581-001 | F- 4        |        | 146976-081 | A- 92       |        |
|            | D- 36-11-12 |        |            | D- 36-12- 4 |        |            | G- 10       |        | 146976-090 | A- 92       |        |
|            | D- 36-12-12 |        |            | D- 36-13- 4 |        | 146582-001 | F- 10       |        | 147049-001 | L- 11- 1- 2 |        |
|            | D- 36-13-12 |        | 144778-001 | D- 36- 8- 6 |        | 146583-001 | F- 13       |        | 147049-002 | L- 11- 2- 2 |        |
| 140313-001 | J- 10       |        |            | D- 36- 9- 6 |        | 146584-001 | F- 18       |        | 147049-003 | L- 11- 3- 2 |        |
| 140327-001 | J- 25       |        |            | D- 36-10- 6 |        | 146585-001 | F- 19       |        | 147049-004 | L- 11- 4- 2 |        |
| 140342-001 | Z- 15       |        |            | D- 36-11- 6 |        | 146586-000 | F- 21       |        | 147055-003 | Z- 54-19    |        |
| 140759-000 | Z- 33       |        |            | D- 36-12- 6 |        | 146587-201 | M- 2- 1     |        | 147056-003 | Z- 54-20    |        |
| 140774-000 | K- 7        |        |            | D- 36-13- 6 |        | 146588-001 | M- 2- 1- 1  |        | 147148-001 | L- 41       |        |
| 140991-001 | D- 36-10- 8 |        | 144783-001 | M- 2- 1-12  |        | 146589-001 | M- 2- 1- 3  |        | 147149-001 | L- 44       |        |
| 140992-001 | D- 36- 8-13 |        | 144784-001 | M- 2- 1-13  |        | 146590-001 | M- 2- 1- 5  |        | 147344-001 | L- 62       |        |
|            | D- 36- 9-13 |        | 144788-001 | M- 2- 1- 9  |        | 146592-001 | M- 2- 1-29  |        | 147367-001 | A- 37- 2    |        |
|            | D- 36-10-13 |        | 144793-000 | M- 2- 3     |        | 146617-001 | H- 13       |        | 147369-001 | C- 34-11    |        |
|            | D- 36-11-13 |        | 145147-001 | D- 36- 2- 4 |        | 146634-001 | J- 21       |        | 147371-001 | D- 36- 7- 4 |        |

| Parts No.  | Ref No.     | Remark | Parts No.  | Ref No.     | Remark | Parts No.  | Ref No.     | Remark | Parts No.  | Ref No.     | Remark |
|------------|-------------|--------|------------|-------------|--------|------------|-------------|--------|------------|-------------|--------|
| 147373-000 | M- 7- 1     |        | 148145-001 | D- 22       |        | 148249-000 | K- 10       |        | 149172-001 | G- 12- 2- 2 |        |
| 147377-001 | M- 7- 4     |        | 148146-001 | D- 25       |        | 148250-001 | K- 13       |        | 149173-001 | Z- 10       |        |
| 147440-000 | M- 5- 3     |        | 148147-001 | D- 26       |        | 148251-001 | K- 15       |        | 149252-002 | M- 6        |        |
| 147488-001 | D- 36-12- 8 |        | 148148-001 | D- 29       |        | 148252-001 | K- 17       |        | 149253-001 | M- 6- 4     |        |
| 147489-001 | D- 36-13- 8 |        | 148150-101 | D- 36- 2    |        | 148253-001 | L- 1        |        | 149255-001 | M- 6- 6     |        |
| 147691-000 | K- 5        |        | 148153-101 | D- 36- 3    |        | 148254-001 | L- 25       |        | 149256-001 | M- 6- 8     |        |
| 147787-001 | D- 36-11- 8 |        | 148155-001 | D- 36- 1    |        | 148255-001 | L- 17       |        | 149260-001 | D- 36- 2- 6 |        |
| 147893-002 | Z- 18       |        | 148158-001 | D- 36- 8    |        | 148256-001 | L- 37       |        |            | D- 36- 4- 6 |        |
| 147919-001 | Z- 41- 1    |        | 148160-001 | D- 36- 9    |        | 148258-001 | Z- 32- 1    |        |            | D- 36- 7- 6 |        |
| 147919-002 | Z- 41- 2    |        | 148161-001 | D- 36-10    |        | 148259-001 | D- 39       |        | 149261-001 | D- 36- 2- 7 |        |
| 147933-001 | M- 2- 1-16  |        | 148162-101 | D- 36- 4    |        |            | Z- 39       |        |            | D- 36- 4- 7 |        |
| 147934-001 | G- 14- 1    |        | 148163-001 | E- 1        |        | 148260-101 | D- 36- 6    |        |            | D- 36- 7- 7 |        |
| 147935-001 | G- 15       |        | 148166-001 | E- 1- 3     |        | 148262-001 | E- 6        |        | 149262-001 | D- 36- 2- 9 |        |
| 147943-001 | A- 94       |        | 148167-001 | E- 3        |        | 148263-101 | D- 36- 7    |        |            | D- 36- 3- 9 |        |
| 148020-001 | D- 36- 6- 8 |        | 148168-000 | E- 4        |        | 148269-001 | C- 9        |        |            | D- 36- 4- 9 |        |
| 148065-001 | A- 2        |        | 148169-000 | E- 5        |        | 148270-001 | C- 9- 3     |        |            | D- 36- 5- 9 |        |
| 148066-000 | A- 3        |        | 148173-000 | E- 6- 3     |        | 148271-001 | C- 9- 4     |        |            | D- 36- 7- 9 |        |
| 148067-001 | A- 7        |        | 148174-000 | E- 7        |        | 148280-001 | C- 34- 6    |        | 149265-001 | D- 36- 3- 6 |        |
| 148068-000 | A- 8        |        | 148175-000 | E- 10       |        | 148281-001 | F- 25       |        |            | D- 36- 5- 6 |        |
| 148069-001 | A- 10       |        | 148176-001 | E- 14       |        | 148290-001 | Z- 25       |        | 149266-001 | D- 36- 3- 7 |        |
| 148070-001 | A- 11       |        | 148177-001 | E- 19       |        | 148292-001 | Z- 26       |        |            | D- 36- 5- 7 |        |
| 148071-000 | A- 12       |        | 148178-001 | E- 21       |        | 148303-001 | Z- 42       |        | 149566-001 | L- 11- 1- 1 |        |
| 148072-001 | A- 14       |        | 148179-001 | E- 23       |        | 148304-001 | A- 46       |        |            | L- 11- 2- 1 |        |
| 148073-001 | A- 18       |        | 148180-001 | E- 25       |        | 148315-001 | K- 20       |        |            | L- 11- 3- 1 |        |
| 148074-001 | A- 21       |        | 148181-001 | E- 27       |        | 148342-001 | F- 8- 2     |        |            | L- 11- 4- 1 |        |
| 148075-000 | A- 22       |        | 148182-001 | E- 28       |        | 148343-001 | F- 28       |        |            | M- 2- 1-11  |        |
| 148076-001 | A- 27       |        | 148183-001 | E- 29       |        | 148344-001 | F- 29       |        | 149568-001 | L- 11- 1    |        |
| 148077-001 | A- 29       |        | 148184-000 | E- 32       |        | 148345-001 | F- 26- 2    |        | 149568-002 | L- 11- 2    |        |
| 148078-001 | A- 30       |        | 148185-001 | E- 33       |        | 148346-001 | D- 14       |        | 149568-003 | L- 11- 3    |        |
| 148082-001 | A- 41       |        | 148186-001 | E- 35       |        | 148373-000 | B- 7        |        | 149568-004 | L- 11- 4    |        |
| 148083-001 | A- 51       |        | 148189-001 | E- 40- 2    |        | 148387-001 | M- 6- 1     |        | 149918-001 | D- 36- 5    |        |
| 148084-001 | A- 53       |        | 148196-000 | F- 6        |        | 148388-001 | M- 6- 2- 1  |        | 150106-001 | Z- 54- 4    |        |
| 148085-001 | A- 59       |        | 148197-000 | F- 7        |        | 148389-001 | M- 6- 2- 3  |        | 150139-001 | Z- 54- 1    |        |
| 148086-000 | A- 60       |        | 148198-001 | F- 8- 1     |        | 148390-001 | M- 6- 2- 4  |        | 150145-001 | Z- 54-22    |        |
| 148087-001 | A- 61       |        | 148198-001 | Z- 4        |        | 148395-001 | M- 6- 2     |        | 150162-003 | Z- 54       |        |
| 148088-000 | A- 62       |        | 148200-001 | G- 1        |        | 148403-001 | E- 41       |        | 150172-001 | Z- 54- 3    |        |
| 148089-001 | A- 67       |        | 148204-001 | G- 2        |        | 148404-001 | E- 42       |        | 150173-001 | Z- 54- 4- 1 |        |
| 148090-001 | A- 69       |        | 148205-001 | G- 4        |        | 148425-001 | G- 1- 2- 3  |        | 150176-001 | Z- 54- 7    |        |
| 148103-001 | A- 35       |        | 148206-001 | G- 6        |        |            | H- 1- 2- 2  |        |            | Z- 54-20- 1 |        |
| 148104-001 | A- 73- 1    |        | 148207-000 | G- 7        |        | 148430-101 | Z- 30       |        | 150178-001 | Z- 54- 6    |        |
| 148105-001 | A- 73- 2    |        | 148208-001 | G- 8        |        | 148431-101 | Z- 43- 1    |        |            | Z- 54-19- 1 |        |
| 148111-000 | B- 9        |        | 148209-001 | G- 12- 1    |        | 148432-001 | Z- 43- 2    |        | 150179-001 | Z- 54- 9    |        |
| 148112-000 | B- 10       |        | 148212-001 | G- 12- 1- 3 |        | 148747-001 | D- 36-11    |        | 150180-000 | Z- 54-12    |        |
| 148113-001 | B- 1        |        |            | G- 12- 2- 3 |        | 148748-001 | D- 36-12    |        | 150181-101 | Z- 54- 1- 2 |        |
| 148117-001 | C- 1- 4     |        | 148213-101 | G- 12- 1- 4 |        | 148749-001 | D- 36-13    |        | 150182-000 | Z- 54-13    |        |
|            | C- 1- 8     |        |            | G- 12- 2- 4 |        | 148782-001 | H- 18       |        | 150185-001 | Z- 54-22- 1 |        |
| 148118-001 | C- 1- 6     |        | 148217-001 | G- 12- 2    |        |            | J- 26       |        | 150188-001 | Z- 54-15    |        |
| 148120-000 | C- 5        |        | 148224-001 | H- 2        |        | 148783-001 | G- 12- 1- 6 |        | 150189-001 | Z- 54- 1- 1 |        |
| 148121-000 | C- 8        |        | 148225-001 | H- 4        |        |            | G- 12- 2- 6 |        | 150202-001 | Z- 54- 4- 2 |        |
| 148122-001 | C- 9- 2     |        | 148226-001 | H- 8        |        | 148813-001 | D- 14- 3    |        | 150382-001 | G- 1- 2- 2  |        |
| 148123-001 | C- 17       |        | 148227-000 | H- 9        |        | 148838-001 | E- 30       |        | 150550-000 | Z- 57- 1    |        |
| 148124-002 | C- 23       |        | 148228-000 | H- 10       |        | 148847-001 | E- 31       |        | 150553-002 | M- 2- 1-21  |        |
| 148125-001 | C- 30       |        | 148230-001 | H- 1        |        | 148851-001 | L- 8- 2     |        | 150556-002 | M- 2- 6     |        |
| 148126-001 | C- 32       |        | 148232-001 | H- 6        |        | 148857-001 | C- 1- 2     |        | 150806-001 | B- 2        |        |
| 148128-001 | D- 1        |        | 148234-000 | J- 3        |        |            | G- 1- 1- 2  |        | 150807-101 | L- 47       |        |
| 148129-001 | D- 2        |        | 148235-001 | J- 4        |        |            | H- 1- 1- 2  |        | 150808-001 | L- 49       |        |
| 148130-001 | D- 3        |        | 148236-001 | J- 6        |        |            | J- 1- 2     |        | 150810-001 | L- 50       |        |
| 148131-001 | D- 4        |        | 148237-000 | J- 7        |        | 148858-001 | C- 1        |        | 150811-001 | L- 54       |        |
| 148133-001 | D- 4- 2     |        | 148239-001 | J- 11       |        | 148859-000 | A- 75       |        | 150812-001 | L- 57       |        |
| 148134-001 | D- 5        |        | 148240-001 | J- 13       |        | 148984-001 | A- 33- 1- 6 |        | 150813-001 | L- 52       |        |
| 148135-001 | D- 8        |        | 148241-001 | J- 15       |        |            | A- 33- 2- 6 |        | 151012-001 | L- 46       |        |
| 148136-001 | D- 10       |        | 148242-001 | J- 17       |        | 148987-001 | A- 33- 1    |        | 151017-001 | Z- 57       |        |
| 148137-001 | D- 11       |        | 148243-001 | J- 18       |        | 148989-001 | A- 33- 2    |        | 151614-001 | M- 6- 9     |        |
| 148138-001 | D- 12       |        | 148244-000 | J- 19       |        | 149005-001 | Z- 32- 2    |        | 151617-001 | L- 38       |        |
| 148139-001 | D- 13       |        | 148245-000 | J- 20       |        | 149171-001 | H- 14       |        | 152194-001 | A- 33- 1- 7 |        |
| 148143-001 | D- 19       |        | 148247-001 | K- 2        |        |            | J- 22       |        |            | A- 33- 2- 7 |        |
| 148144-001 | D- 21       |        | 148248-000 | K- 8        |        | 149172-001 | G- 12- 1- 2 |        | 153483-001 | M- 6-11     |        |



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